

**Delgado Community College
Purchasing Department
501 City Park Avenue, Bldg. 37
New Orleans, Louisiana 70119
(504) 762-3027**

Invitation to Bid

Bid Name:

Service Contract #055 – Concrete Services

Due by & to be opened on:

October 23rd, 2020 at 2:00PM CST

Contact Person:

**Tracey Sheffield
Purchasing Director
(504) 762-3029**

NAME OF COMPANY

ADDRESS

CITY, STATE, ZIP

PHONE NUMBER

FAX NUMBER

EMAIL

SIGNATURE OF COMPANY REPRESENTATIVE

NAME (PRINTED) & TITLE OF COMPANY REPRESENTATIVE

*** This form must be completed and submitted with your bid*

I. GENERAL INFORMATION

1. Any questions regarding this Invitation to Bid shall be in writing and shall be addressed to Tracey Sheffield at the following address:

Delgado Community College
O'Keefe Administration Building
501 City Park Avenue, Building 37
New Orleans, La 70119
Email: tsheff@dcc.edu
Fax: (504) 762-3089

Any additional information resulting from such inquiries shall be distributed to all bidders via addenda. The College will not be responsible for any other explanation of the documents.

Sealed bids may be submitted by mail or in person. Faxed or emailed Bids not accepted. Mailed bids and hand carried bids shall go to the address in item #1. If hand carried, Bids are to be delivered to the attendant at the front desk. Do not leave on counter unattended. The bid name and number must be on the outside of the packaging, including any express mail packaging. Please note that express mail or USPS carriers may not deliver directly to 501 City Park Avenue. The bidder/proposer is solely responsible for ensuring that its courier service provider makes inside deliveries to 501 City Park Avenue.

3. Each bidder is solely responsible for the accuracy and completeness of its bid. Errors or omissions may be grounds for rejection, or may be interpreted in favor of the College.

4. Each bidder is solely responsible for the timely delivery of its bid. Delgado Community College will not be responsible for any delays in the delivery of bids, whether delayed in the mail, or for any reason whatsoever.

5. Only the issue of a purchase order or a signed acceptance of a proposal constitutes acceptance on the part of the College.

6. Assuming there is no prompt payment discount provision, payment will be made within 30 days from receipt of products in satisfactory condition, or within 30 days from receipt of invoice, whichever is later.

7. Proposer or bidder, contractor, etc. certifies, by signing and submitting a proposal for \$25,000 or more, that their company, any subcontractors, or principals are not suspended or debarred by the General Services Administration (GSA) in accordance with the requirements in OMB Circular A-133. (A list of parties who have been suspended or debarred may be viewed via the internet at www.epls.gov.)

II. INSTRUCTIONS & REQUIREMENTS FOR BIDDERS

Delgado Community College is seeking bids to concrete services, on an as needed basis for all Delgado Community College campus's

City Park Campus 615 City Park Ave New Orleans, LA 70119	West Bank Campus 2600 General Meyer Ave New Orleans, LA 70114	Charity School of Nursing 450 South Claiborne Ave New Orleans, LA 70112
East Jefferson Technical 5200 Blair Drive Metairie, LA 70001	Sidney Collier Campus 3727 Louisa Street New Orleans, LA 70126	Marine Fire School 13200 Old Gentilly Road New Orleans, LA 70129
River City Campus 709 Churchill Parkway Avondale, LA 70094		

Additional locations may be added to the contract.

QUALIFICATIONS

Vendors/Contractors Bidding this contract shall have at least Eight (8) years experience as a contractor in the field of Flatwork, and shall be required to perform the work set forth in the specifications. Each vendor shall present documentation verifying their experience in Flatwork. Bidder must complete **Attachment B, References Form** and submit with their bid. Vendor is required to be licensed and certified by Louisiana State Licensing Board as it pertains to this work. Service personnel shall be qualified by training. The Vendor shall be required to provide at the College's request proof of training of Service Personnel.

PRE-BID/JOBSITE VISIT:

A **non-mandatory pre-bid jobsite visit** is scheduled on **Monday, October 12th, 2020 at 10:00AM CST** at the City Park Campus. Bidders are to meet in the front of Building 10 at Delgado Community College's City Park Campus located at 615 City Park Avenue, New Orleans, LA 70119. Provisions of site inspection are included. Although not required, it is strongly recommended that bidders attend the jobsite visit to ascertain the scope of the work to be performed.

Everyone attending any pre-bid meeting and/or jobsite visit must wear protective face masks while on Campus, follow all recommended social distancing measures and may be subject to a temperature check.

ADDENDA:

Any questions arising from the specifications or the pre-bid conference must be addressed in writing to the individual indicated in Section I, General Information, and will be answered via an Addendum. All questions must be submitted no later than **Wednesday, October 14th, 2020 by 12:00PM CST**. A final 48-hour period after the issuance of the Addendum will be granted for questions which are directly related only to the answers provided in the Addendum.

Any interpretation, correction or change of the Bidding Documents will be made by addendum. Interpretations, corrections or changes of the Bidding Documents made in any other manner will not be binding, and Bidders shall not rely upon such interpretations, corrections and changes. The Bidder must acknowledge all issued addenda in the space provided on the Bid Form. Failure to acknowledge addenda will render the bid informal and will cause its rejection.

Bid Documents and Addenda may be downloaded from

<https://wwwcfprd.doa.louisiana.gov/osp/lapac/dspBid.cfm?search=department&term=39>

BID SUBMITTAL:

Bids must be sealed with the **Bidder's name, license number along with the name and number of the bid clearly written on the front of the envelope** and are to be delivered to the person and location in Section I, General Information by the date and time stated on the title page. Faxed or emailed bids are not acceptable. If shipping via express mail, all information as listed above must be on the outside of the shipping packaging. Bids received without this information or after the due date and time will be automatically disqualified.

In accordance with R.S. 37:2163A, Contractors' License number in the appropriate classification(s) must appear on the bid envelope submitted on all projects in the amount of \$50,000 or more (and \$1.00 or more if hazardous materials are involved).

Bids must be submitted on the forms furnished for this purpose and must be filled out in ink or typewritten and signed in ink. Do not erase, correct, or write over any prices or figures necessary for this proposal. If any corrections are necessary, each must be initialed by bidder. Failure to comply with the above requirements will cause your bid to be disqualified.

Effective August 15, 1997, in accordance with L.R.S. 39:1594 (Act 121), the person signing the bid must be:

- a) A current corporate officer, partnership member or other individual specifically authorized to submit a bid as reflected in the appropriate records on file with the Secretary of State; or
- b) An individual authorized to bind the vendor as reflected by an accompanying corporate resolution, certificate, or affidavit.

By signing the bid, the bidder certifies compliance with the above.

MODIFICATION OR WITHDRAWAL OF BID:

A bid may not be modified, withdrawn, or canceled by the Bidder for a period of thirty (30) calendar days for the period following the time and bid date designated for the receipt of bids, and Bidder so agrees in submitting his bid, except in accordance with R.S. 39:1594,F.

Prior to the time and date designated for receipt of bids, bids submitted early may be modified or withdrawn only by notice to Delgado Community College Purchasing Office at the place and prior to the time designated for receipt of bids.

Withdrawn bids may be resubmitted up to the time designated for the receipt of bids provided that they are then fully in conformance with these Instructions to Bidders.

BIDDER REPRESENTATION:

By signing and submitting a bid, Bidder acknowledges that he/she has visited the site, read and understands the Bidding Documents and his bid is made in accordance therewith.

The Bidder is advised to carefully consider all College physical features and activities and occupancies by faculty, staff and students, and to plan activities so as not to disrupt the normal operations and activities of the College except as expressly permitted by the College in writing. The Bidder shall be especially aware of existing electric, gas, water, telephone and/or other utilities and facilities which may be in the way of or adjacent to the Work, and shall take appropriate action to protect these utilities during the Work.

Every effort has been made to accurately show all pertinent surface and subsurface features accurately. For self-assurance, the Bidder may examine available drawings and documents related to College premises. Such examinations may be made only in the offices of the College Facility Services as part of the Non-Mandatory Pre-Bid Conference.

The Bidder agrees that his/her bid is based solely upon the materials, systems and equipment described in the Bidding Documents as advertised and as modified by addenda. The bid submitted is not based on any verbal instructions contrary to the Bidding Documents and addenda.

INSURANCE:

Bidders are to comply with the insurance requirements as stated in Section V of the bid. The provided **indemnification form** (see Attachment A) must be completed and submitted with your bid. Failure to comply with these requirements will result in disqualification of your bid.

The successful bidder will be responsible for ensuring that Delgado receives the required **insurance certificate** after the notice of award (as per terms and conditions) in a timely manner in order to meet the required work expectancy timeframe. No work may commence until a proper certificate is received.

END OF SECTION II

III. TERMS AND CONDITIONS

GENERAL TERMS & CONDITIONS:

- A response to a bid invitation is our only indication of your interest in college business. Failure to respond to six (6) consecutive bid invitations may cause your name to be removed from the bidders' list.
- Bid openings are subject to any in place Executive Order or revised statute as it pertains to the current pandemic.
- No information will be given out as to opinions concerning the ultimate outcome while consideration of the award is in progress.
- Effective September 1, 1991, in accordance with Act 1029 of the 1991 Regular Legislative Session, Delgado Community College will not be responsible for any sales tax, either state or local.
- Delgado Community College reserves the right to reject any and all bids and to waive any informality.
- It shall be distinctly agreed and understood that the price quoted must be a firm price, and not be subject to change at time of the shipment of goods or delivery of services.
- All shipping, handling, materials, labor or any other charges necessary to compete this job must be included in amount bid. Items not listed but necessary for completion of the job shall be furnished as part of the bid. Additional costs disclosed later will be at the expense of the vendor.
- All deliveries shall be made FOB Destination to the College unless otherwise specified by the College. All freight charges are to be included in the unit price. The College will not be responsible for freight charges not clearly stated as a part of this bid.
- The College reserves the right to award the above items separately, grouped, or on an all-or-none basis, and to reject any or all bids and to waive any informalities including technicalities in specifications that preclude competition.
- The College shall have the right to reject any or all bids not accompanied by any data required by the Bidding Documents or a bid in any way incomplete or irregular.
- The Bid will be awarded on the basis of the lowest total cost as determined by the College.
- List of distributors: The Vendor signing the bid shall be designated as the Prime Vendor on any contract/agreement resulting from this bid. If additional Vendors are authorized to receive orders for items covered under this proposal, the Vendor must submit, with bid, a list of those additional authorized distributors.

- Bidder must be a Louisiana licensed contractor who is licensed to perform the work as outlined in the specifications. The Bidder must be fully qualified under any State or local licensing law for Contractors in effect at the time and at the location of the work before submitting his bid. The Contractor shall be responsible for determining that all of his Sub-bidders or prospective Subcontractors are duly licensed in accordance with law.
- Bidder must be able to provide a project timeline if requested by Delgado Community College
- If item(s) or services bid do not fully comply with specifications, including brand and/or product number or work, bidder must state in what respect the item(s)/services or work deviate. Failure to note exceptions on the bid form will not relieve the successful bidder from supplying the actual products or services requested.

CONTRACT TERM & AGREEMENT:

The term of the agreement will be from the date of award through June 30, 2021, with the option to renew for up to two (2) twelve (12) month periods if mutually agreeable. Contract extensions may not exceed thirty-six (36) months total.

Escalation Clause; Prior to any renewal term, the contractor may request a price increase for that renewal term based on documented increase costs. The price increase may not be greater than the Consumer Price Index (All Urban Consumers, Current Series) average increase for the prior 12 months. The College reserves the right to approve or disapprove the price increase.

The Form of Agreement between the College and Contractor for the work set forth herein will be the issuance of a purchase order.

ADDITIONAL SITES:

The College reserves the right to add or subtract sites to this contract during the course of the agreement. The College will request the addition/subtraction from the Vendor/Contractor, and a price will be negotiated and agreed upon at that time.

PAYMENTS:

Contractor will be paid after work is satisfactorily completed and upon recommendation of the College Representative.

Payment for services shall be made to the Contractor once a month after receipt by the College of an invoice (or invoices) by which the Bidder certifies, and the College agrees, that all the invoiced work was performed in accordance with the specifications. Invoices will not be paid prior to 30 days from receipt of invoice or completion of services/receipt of project.

All invoices should be submitted to the College's Office of Accounts Payable and clearly indicate

the Purchase Order Number assigned by the Delgado Purchasing office. Invoices must be accompanied by a service ticket(s) or reference the service ticket(s) if the ticket(s) was already submitted to Facilities & Planning. The service ticket must reference who requested the work, why the work was needed, and what work was performed. Lump sum invoices will not be processed. All work must be itemized and include a breakdown per the unit pricing and material markup, if applicable, per the bid.

INSURANCE:

Vendor compliance with the attached insurance and indemnification requirements is mandatory. A completed copy of the **indemnification agreement** (*Attachment A*) must be submitted with the bid. Failure to do so will result in immediate disqualification of the bid. Upon award, a certificate of insurance must be submitted to Delgado Community College, delineating Delgado Community College as the certificate holder prior to the commencement of any work.

TERMINATION OF AGREEMENT:

- **Termination of this agreement for cause** – DCC may terminate this agreement for cause based upon the failure of Contractor to comply with the terms and/or conditions of the Agreement, or failure to fulfill its performance obligations pursuant to this agreement, provided that DCC shall give the Contractor written notice specifying the Contractor's failure. If within thirty (30) days after receipt of such notice, the Contractor shall not have corrected such failure or, in the case of failure which cannot be corrected in thirty (30) days, have begun in good faith to correct such failure and thereafter proceeded diligently to complete such correction, then DCC may, at its option, place the Contractor in default and the Agreement shall terminate on the date specified in such notice.

The Contractor may exercise any rights available to it under Louisiana law to terminate for cause upon the failure of DCC to comply with the terms and conditions of this agreement, provided that the Contractor shall give DCC written notice specifying the DCC's failure and a reasonable opportunity for DCC to cure the defect.

- **Termination for non-appropriation of funds** - The continuance of this contract is contingent upon the appropriation of funds to fulfill the requirements of the contract by the legislature. If the legislature fails to appropriate sufficient monies to provide for the continuation of the contract, or if such appropriation is reduced by the veto of the Governor or by any means provided in the appropriations act or Title 39 of the Louisiana Revised Statutes of 1950 to prevent the total appropriation for the year from exceeding revenues for that year, or for any other lawful purpose, and the effect of such reduction is to provide insufficient monies for the continuation of the contract, the contract shall terminate on the date of the beginning of the first fiscal year for which funds are not appropriated.
- **Termination for Convenience** - The College may terminate the Contract at any time by giving thirty (30) days written notice to the Contractor. The Contractor shall be entitled to payment for work performed (monthly charges to be prorated) to the extent work has been performed satisfactorily.

If, for any reason, the Contractor desires to terminate the Contract, he may do so upon giving written notice of sixty (60) days to the College. Contractor shall perform all work satisfactorily as contracted until the determined termination date

- **Cancellation Conditions** - In any of the following cases, the College shall have the right to immediately cancel the contract agreement due to:
The interruption of operation in any of the contacted facilities or the College beyond its control; failure of the Contractor to maintain a satisfactory performance bond or adequate insurance coverage; wherever the contractor is guilty of misrepresentation; wherever the contract agreement was obtained by fraud, collusion, conspiracy, or other unlawful means, or the contract agreement conflicts with any statutory and constitutional provision of the State of Louisiana or the United States. In case of default by the Contractor, the College reserves the right to purchase any or all items or services in default on open market, charging the Contractor with any excessive costs. Until these excessive costs are paid to the College, the Contractor shall not do business with the College again.
- **Implementation of Termination** - The Contractor shall terminate all work under the Contract to the extent and on the date specified in the Notice of Termination or reduction of work and until such date shall, continue to perform all work required in the specification and be compensated for such work. In the event of termination or reduction in the scope of work by the College, the College shall pay the Contractor for all work satisfactorily performed up to the effective date of termination or reduction in the scope of work, in accordance with the prices included in Contractor's bid less all partial payments made on account prior to the effective date of termination or reduction in the scope of work. Upon termination as above, the Contract Administrator shall make final determination of the amount due the Contractor for work performed.

INQUIRIES, INTERPRETATION OR CORRECTION TO BIDDING

Any questions arising from either the specifications and/or jobsite visit must be addressed in writing and will be answered via an Addendum.

Any interpretation, correction or change of the Bidding Documents will be made by addendum. Interpretations, corrections or changes of the Bidding Documents made in any other manner will not be binding, and Bidders shall not rely upon such interpretations, corrections and changes.

DISCRIMINATORY PRACTICES:

Delgado Community College of the State of Louisiana is an equal opportunity employer and looks to its contractors, subcontractors, vendors, and suppliers to take affirmative action to effect this commitment in its operations.

Both the College and the bidder shall abide by the requirements of Title VII of the Civil Rights Act of 1964, and shall not discriminate against employees or applicants due to race, color,

religion, sex, handicap or national origin. Furthermore, both parties shall take affirmative action to provide for positive posture in employing and upgrading persons without regard to race, color, religion, sex, handicap, or national origin, and shall take affirmative action as provided in the Vietnam Era Veteran's Readjustment Act of 1974.

Both parties shall abide by the requirements of Title VI of the Civil Rights Act of 1964 and the Vocational Rehabilitation Act of 1974 to insure that services are delivered without discrimination due to race, color national origin or handicap. Both parties shall comply with the requirements of the Americans with Disabilities Act of 1990 which bans discrimination in employment or in delivery of services on the basis of sexual orientation.

SUBCONTRACTORS:

All subcontractors must be identified and approved in writing in advance by the College. Contractor shall promptly pay all laborers, materialmen, subcontractors and suppliers for work performed pursuant to this contract.

It is the Contractor's responsibility to ensure that his subcontractors are properly licensed and insured and adhere to all rules and responsibilities as outlined in the bid documents.

SUBSTITUTIONS AND EQUIVALENTS:

SERVICES: Any materials, products and equipment described in the Bidding Documents establish a standard of required function, dimension, appearance and quality to be met by any proposed substitution.

No substitution will be considered unless written request for approval has been submitted by the Contractor and has been received by the College Representative prior to beginning work.

Each such request shall include the name of the material or equipment for which it is to be substituted and a complete description of the proposed substitute including model numbers, drawings, cuts, performance and test data and any other information necessary for an evaluation. A statement setting forth any changes in other materials, equipment or work that incorporation of the substitute would require shall be included.

It shall be the responsibility of the Contractor to include in his request all changes required to the work if the proposed substitute is used. Approval, if granted, is given contingent upon Contractor being responsible for any costs which may be necessary to modify the space or facilities needed to accommodate the materials and equipment approved. If the College approves a proposed substitution, such approval will be set forth in writing. Contractor shall not rely upon approvals made in any other manner.

MATERIALS: Any manufacturer's names, trade names, brand names, or catalog numbers used in the specifications for material purchase are for the purpose of describing and establishing general quality levels. Such references are not intended to be restrictive. Bids will be considered for any brand that meets or exceeds the quality of the specifications listed for any item.

Vendor must state the brand/model he or she is bidding on each item. It shall be the sole responsibility of the Vendor to prove equivalency. Vendor shall submit with the bid all illustrations, drawings, descriptive literature, and specifications necessary to determine equivalency. Failure to do so will eliminate your bid from consideration. The decision of the College as to equivalency shall be final.

If a vendor wishes to submit an alternate bid in addition to the brand/model requested, he or she may submit one (1) alternate bid. The alternate bid must be a separate submission, must be clearly marked as an alternate, and must include all applicable forms (i.e., jobsite visit). In addition, a separate, signed cover sheet must be submitted with the alternate. **Applicable if materials are being purchased in addition to the services requested in the bid.*

END OF SECTION III

IV. INSURANCE REQUIREMENTS FOR VENDORS

The Contractor/Vendor shall purchase and maintain for the duration of the contract/work insurance against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the work hereunder by the Contractor/Vendor, its agents, representatives, employees or subcontractors.

A. MINIMUM SCOPE AND LIMITS OF INSURANCE

1. Workers Compensation

Workers Compensation insurance shall be in compliance with the Workers Compensations law of the State of Louisiana. Employers Liability is included with a minimum limit of \$500,000 per accident/per disaster/per employee. If work is to be performed over water and involves maritime exposure, applicable LHWCA, Jones Act, or other maritime law coverage shall be included and the Employers Liability increased to a minimum of \$1,000,000.

2. Commercial General Liability

Commercial General Liability insurance, including Personal and Advertising Injury Liability, shall have a minimum limit per occurrence of \$1,000,000 and a minimum general aggregate of \$2,000,000. The Insurance Services office (ISO) Commercial General Liability occurrence coverage form CG 00 01 (current form approved for use in Louisiana), or equivalent, is to be used in the policy. Claims made form is unacceptable.

3. Automobile Liability

Automobile Liability Insurance shall have a minimum combined single limit per occurrence of \$1,000,000. ISO form number CA 00 01 (current form approved for use in Louisiana), or equivalent, is to be used in the policy. This insurance shall include third-party bodily injury and property damage liability for owned, hired and non-owned automobiles.

B. DEDUCTIBLES AND SELF-INSURED RETENTIONS

Any deductibles or self-insured retentions must be declared to and accepted by the Agency. The Contractor/Vendor shall be responsible for all deductibles and self- insured retentions.

C. OTHER INSURANCE PROVISIONS

The policies are to contain, or be endorsed to contain the following provisions:

1. General Liability and Automobile Liability Coverage's
 - a. The Agency, its officers, agents, employees and volunteers shall be named as an additional insured as regards to negligence by the contractor/vendor. ISO Form CG 20 10 (current form approved for use on Louisiana), or equivalent, is to be used when applicable. The coverage shall contain no special limitations on the scope of protection to the Agency.
 - b. The Contractor's/Vendor's insurance shall be primary as respects to the Agency, its officers, agents, employees and volunteers. Any insurance or self-insurance maintained by the Agency shall be excess and non-contributory of the Contractor's insurance.
 - c. The Contractor's/Vendor's insurance shall apply separately to each insured against whom claim is made or suit brought, except with respect to the policy limits.

2. Workers Compensation and Employers Liability Coverage

The insurer shall agree to waive all rights of subrogation against the Agency, its officers, agents, employees and volunteers for losses arising from work performed by the Contractor for the Agency.

3. All Coverages

- a. Coverage/Vendor shall not be cancelled, suspended, or violated by either party (the Contractor/Vendor or the insurer) or reduced in coverage or in limits except after 30 days written notice has been given to the Agency. Ten-day written notice of cancellation is acceptable for non-payment of premium. Notifications shall comply with the standard cancellation provisions in the Contractor's/Vendor's policy.
- b. Neither the acceptance of the completed work nor the payment thereof shall release the Contractor/Vendor from the obligations of the insurance requirements or the indemnification agreement.
- c. The insurance companies issuing the policies shall have no recourse against the Agency for payment of premiums or for assessments under any form of the policies.
- d. Any failure of the Contractor/Vendor to comply with reporting provisions of the policy shall not affect coverage provided to the Agency, its officers, agents, employees and volunteers.

D. ACCEPTABILITY OF INSURERS

All required insurance shall be provided by a company or companies lawfully authorized to do business in the jurisdiction in which the Project is located. Insurance shall be placed with insurers with an A.M. Best's rating of **A-: VI or higher**. This rating requirement may be waived for workers compensations only.

If at any time an insurer issuing any such policy does not meet the minimum A.M Best rating, the Contractor/Vendor shall obtain a policy with an insurer that meets the A.M Best rating and shall submit another Certificate of Insurance as required in the contract.

E. VERIFICATION OF COVERAGE

Contractor/Vendor shall furnish the Agency with Certificates of Insurance reflecting proof of required coverage. The Certificates for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf. The Certificates are to be received and approved by the Agency before work commences and upon any contract renewal thereafter.

In addition to the Certificates, Contractor/Vendor shall submit the declarations page and cancellation provision endorsement for each insurance policy. The Agency reserves the right to request complete certified copies of all required insurance policies at any time.

Upon failure of the Contractor/Vendor to furnish, deliver and maintain such insurance as above provided, this contract, at the election of the Agency, may be suspended, discontinued or terminated. Failure of the Contractor/Vendor to purchase and/or maintain any required insurance shall not relieve the Contractor/Vendor from any liability or indemnification under the contract.

F. SUBCONTRACTORS

Contractor/Vendor shall include all subcontractors and as insureds under its policies OR shall be responsible for verifying and maintaining the Certificates provided by each subcontractor. Subcontractors shall be subject to all of the requirements stated herein. The Agency reserves the right to request copies of subcontractor's Certificates at any time.

G. WORKERS COMPENSATION INDEMNITY

In the event the Contractor/Vendor is not required to provide or elects not to provide workers compensation coverage, the parties hereby agree that Contractor/Vendor, its owners, agents and employees will have no cause of action against, and it will not assert a claim against the State of Louisiana, its departments, agencies, agents and employer, whether pursuant to the Louisiana Workers Compensation Act, or otherwise under any

circumstance. The parties also hereby agree that the State of Louisiana, its departments, agencies, agents, and employees shall in no circumstance be, or considered as, the employer or statutory employer of the Contractor/Vendor, its owners, agents and employees. The parties further agree that the Contractor/Vendor is a wholly independent contractor and is exclusively responsible for its employees, owners, and agents. Contractor/Vendor hereby agrees to protect, defend, indemnify and hold the State of Louisiana, its departments, agencies, agents and employees harmless from any such assertion or claim that may arise from the performance of this contract.

H. INDEMNIFICATION/HOLD HARMLESS AGREEMENT

Contractor/Vendor agrees to protect, defend, indemnify, save and hold harmless, the State of Louisiana, all State Departments, Agencies, Boards and Commissions, its officers, agents servants, employees and volunteers, from and against any and all claims, damages, expenses, and liability arising out of injury or death to any person or the damage, loss or destruction of any property which may occur, or in any way grow out of, any act or omission of the Contractor/Vendor, its agents, servants, and employees, or any and all costs, expenses and/or attorney fees incurred by the Contractor/Vendor as a result of any claims, demands, suits or causes of action, except those claims, demands suits, or causes of action arising out of the negligence of the State of Louisiana, all State Departments, Agencies, Boards, Commissions, its officers, agents, servants, employees and volunteers.

Contractor/Vendor agrees to investigate, handle, respond to, provide defense for and defend any such claims, demands, suits, or causes of action at its sole expense and agrees to bear all other costs and expenses related thereto, even if the claims, demands, suits, or causes of action are groundless, false or fraudulent.

END OF SECTION V

V. TECHNICAL SPECIFICATIONS

SECTION 01000

SECTION 01000

GENERAL CONDITIONS

The general conditions of these Specifications, including amendments and additions thereto, apply to each and every heading included in these Specifications with the same force as though repeated in full under each heading respectively.

1.01 SCOPE

This contract provides for concrete flatwork in various areas of the College at all locations. The extent of the work will be established by the College on an as needed basis. Expected work is of the type and complexity associated with a large College. Contractor shall provide all labor, supervision and stated materials set forth in the solicitation.

All work shall meet any required trade standards and shall also meet College Standards.

All work will be coordinated with the contractor and College Representative prior to the work beginning.

Standard (Non-Urgent Projects):

For all Standard (Non-Urgent) Projects, a written estimate shall be provided by the contractor for each project to the College Representative before work begins. The written estimate shall include separate labor, equipment rental and material costs to complete the project which must match rates as bid in response to these Specifications. The College Representative will approve this written estimate in writing, by fax or email, before the work begins.

The College Representative reserves the right to separately bid out standard projects.

Urgent Projects:

Urgent Projects are those that are deemed by the College to be any projects where the contractor must be on-site within two (2) hours from the time the College Representative first (1st) contacts the contractor.

For Urgent Projects, the contractor should give a written estimate for the work to be completed to the College Representative, if time permits. However, if time does not permit, an oral estimate by the contractor is acceptable for Urgent Projects **ONLY**. The College Representative may allow work to begin with only an oral approval to proceed based on information available at the time. However, **all oral estimates** shall be followed up in writing the first (1st) work day after approval to proceed is given by the College Representative.

1.02 NON-MANDATORY SITE INVESTIGATION

It is recommended that prospective bidders visit the site to make measurements, review existing conditions, and if required, review the Building Plans on file in the Facility Services Office if the prospect warrants same. A thorough understanding of the project per these Technical Specifications and/or accompanying drawings is imperative. Opportunity for the site visit and inspection is provided in Section III "INSTRUCTIONS & REQUIREMENTS FOR BIDDERS.

1.03 REVIEW OF DOCUMENTS

The Contractor shall carefully study and compare the field conditions, Drawings and Specifications and shall at once report to the College Representative errors, inconsistencies or omissions discovered.

1.04 PROJECT MEETINGS

If called by the College Representative, a Pre-Service Conference between the Contractor, his on-site representative and the College Representative will be held in order to clarify and direct College policy and specific items of concern as pertain to the Contract. Progress meetings will be scheduled at the discretion of the College Representative.

1.05 COORDINATION

Coordinate service schedule with the College Representative so as not to interfere with the ongoing operation of the College. If for any reason, shut down of utilities is required on this project, it is imperative that the College Representative be consulted.

1.06 SUPERVISION

The Contractor shall provide consistent, capable supervision at all times during the work. Site Manager or company representative shall be available during normal working hours of 8:00 am to 4:30 pm.

1.07 SUBSTITUTIONS

Substitutions to specified materials require approval of the College Representative (see Instructions to Bidders: Article 3.3).

1.08 SUBMITTALS

Submit all required shop drawings, brochures and samples for review by the College Representative prior to ordering and/or installing materials. Equipment or material ordered and/or installed without review by the College Representative is subject to rejection.

Shop Drawings: Submit three (3) sets of shop drawings and one (1) will be returned.

Brochures, Cut Sheets, and Technical Data: Submit four (4) copies. Two (2) will be returned.

Samples: Submit one (1) each to be retained by the College.

1.09 CLEANUP

Daily, as it accumulates, remove from the work site, all rubbish, debris and unsalvageable material resulting from the work. Do not permit trash to accumulate. Do not use individual building dumpsters for trash disposal.

1.10 QUALITY ASSURANCE

Use new materials of quality acceptable to the College Representative and meeting all applicable regulations as pertain to this project.

Remove and replace all material delivered to site which, in the opinion of the Representative, does not meet specifications and quality. The College expects quality workmanship and only those who are qualified to perform the tasks in their respective trades are acceptable. The term qualified above is understood to mean "Journeyman" skilled in their respective trades. Correct, at no expense to the College, any work performed which, in the opinion of the College Representative, is found unacceptable or not according to code. Corrections or incomplete work must be rectified within twenty-four (24) hours of notification

1.11 TRAFFIC CONTROL

Coordinate the schedule of delivery vehicles which will interfere with normal campus traffic. When deliveries are made from the street curb, provide sufficient properly attired and equipped flagmen to safely control and maintain the flow of traffic. It is the policy of the College of New Orleans to provide full access to all disabled individuals in all areas possible. Because of this commitment, contractors, vendors or servicing agencies are cautioned to ensure that their staff is made aware of this commitment. When parking on the campus of this College, it shall be the responsibility of the contractor, vendor or servicing agency to ensure that no sidewalks or access ways are blocked at any time. If temporary blocking is required, the Contractor, shall assume the responsibility for the safe transit of all disabled persons.

1.12 PROTECTION

Protect adjacent buildings and building elements from damage during site work. Protect the site, including trees, shrubs, vegetation and lawn areas; where damage does occur, restore to original condition replacing damaged vegetation and lawn with equal size and species. Store construction materials with care; distribute the weight to not endanger the building structure.

1.13 SAFETY

Provide sufficient signs continuous barricades to identify the work site and restrict entry. Where necessary, equip barricades with warning lights for night use. Provide measures necessary to ensure and maintain security at the work site; protect from theft, vandalism, personal injury, and property damage. Erect and maintain temporary enclosures and barriers to prevent unauthorized access to the site. Provide fire protection equipment during the construction period, including not less than two (2) ten (10) pound capacity multipurpose A-B-C dry chemical extinguishers (10A:40BC). Where indicated on the Drawings, provide a temporary fence to isolate the construction site and restrict unauthorized entry. Use chain link fence material, 6'-0 minimum height, on steel or wood posts spaced a 6'-0 maximum and embedded 2'-6 minimum

below existing grade; include personnel and/or equipment access gates. Coordinate fence installation with underground utilities - see 1.11; before installation, confirm fence location and layout with the College Representative.

1.14 WARRANTY

Warranty all workmanship and material for a period of one year from date of acceptance. During this period, the College will notify the Contractor of any discrepancy for prompt correction at no expense to the College. At the discretion and initiation of the College Representative, a one-year warranty review meeting with the Contractor will be held to review warranty items which remain incomplete.

1.15 TEMPORARY UTILITIES

The Contractor may use reasonable amounts of the utility services available to the site at no charge from the College. The College will not provide utility service beyond that existing. Coordinate tie-in and disconnect to the existing utilities with the College Representative. Locate temporary facilities so as. not to interfere with the College's use of the Project site and/or surrounding areas. Relocate non-complying facilities at no expense to the College.

1.16 TEMPORARY SANITARY FACILITIES

Existing facilities in the building may be used by construction personnel during work on this project.

1.17 PRICING MODEL

In order to determine the lowest responsive, responsible bidder, bids will be tabulated based on the below model.

Item No.	Description	Evaluation Points
1	Remove existing 6" (+/-) thick reinforced concrete walk or isolated slab, and replace with a 6" thick reinforced concrete slab on prepared base and subbase as described on the Drawings. This unit cost is based on 300 S.F. minimum of paved surface (see SECTION 03000).	2.000%
2	Remove existing 6" (+/-) thick reinforced concrete walk or isolated slab, and replace with a 6" thick reinforced concrete slab on prepared base and subbase as described on the Drawings. This unit cost is based on more than 1000 S.F. of paved surface, (See SECTION 03000).	4.000%
3	Remove existing 6" (+/-) thick reinforced concrete walk or isolated slab, and replace with a 6" thick reinforced exposed aggregate concrete slab on prepared base and subbase as described on the Drawings. This unit cost is based on 300 S.F. minimum of paved surface, (See SECTION 03331).	2.000%

4	Remove existing 6" (+/-) thick reinforced concrete walk or isolated slab, and replacement with a 6" thick reinforced exposed aggregate concrete slab on prepared base and subbase as described on the Drawings. This unit cost is based on more than 1000 S.F. of paved surface, (See SECTION 03331).	4.000%
5	Place a 6" thick reinforced concrete slab on prepared base and subbase as described on the Drawings. This unit cost is based on 300 S.F. minimum of paved surface, (See SECTION 03000).	2.000%
6	Place a 6" thick reinforced concrete slab on prepared base and subbase as described on the Drawings. This unit cost is based on more than 1000 S.F. of paved surface, (See SECTION 03000).	4.000%
7	Place a 6" thick reinforced exposed aggregate concrete slab on prepared base and subbase as described on the Drawings. This unit cost is based on 300 S.F. minimum of paved surface, (See SECTION 03331).	2.000%
8	Place a 6" thick reinforced exposed aggregate concrete slab on prepared base and subbase as described on the Drawings. This unit cost is based on more than 1000 S.F. of paved surface. (See SECTION 03331).	4.000%
9	Place a 6" thick reinforced concrete slab on undisturbed excavated soil as described on the Drawings. This unit cost is based on 300 S.F. minimum of paved surface, (See SECTION 03000).	2.000%
10	Place a 6" thick reinforced concrete slab on undisturbed excavated soil as described on the Drawings. this unit cost is based on more than 1000 S.F. of paved surface, (See SECTION 03000).	4.000%
11	Place a 6" thick exposed aggregate reinforced concrete slab on undisturbed excavated soil as described on the Drawings. This unit cost is based on 300 S.F. minimum of paved surface, (See SECTION 03331).	2.000%
12	Place a 6" thick exposed aggregate reinforced concrete slab on undisturbed excavated soil as described on the Drawings. This unit cost is based on more than 1000 S.F. of paved surface, (See SECTION 03331).	4.000%
13	Core drill a 4" diameter hole through an existing 6" thick reinforced concrete slab on grade: 1 to 6 holes.	3.000%
14	Core drill a 6" diameter hole through an existing 6" thick reinforced concrete slab on grade: 1 to 6 holes.	3.000%
15	Core drill a 12" diameter hole through an existing 6" thick reinforced concrete slab on grade: 1 to 6 holes.	3.000%
16	Core drill a 4" diameter hole through an existing 6" thick reinforced concrete slab on grade: 6 or more holes	3.000%
17	Core drill a 6" diameter hole through an existing 6" thick reinforced concrete slab on grade: 6 or more holes.	2.000%
18	Core drill a 12" diameter hole through an existing 6" thick reinforced concrete slab on grade: 6 or more holes.	2.000%
19	Sawcut existing concrete surface, 1" deep (minimum).	2.000%
20	Sawcut existing concrete surface, 3" deep (minimum).	2.000%

21	Remove existing 8" (+/-) thick reinforced concrete street paving and replace with an 8" thick reinforced concrete slab on prepared base and subbase as described on the Drawings, including saw cuts to permit demolition. This unit cost is based on 400 S.F. minimum of paved street surface, (See SECTION 03001).	2.000%
22	Remove existing 6" (+/-) thick reinforced concrete walk or isolated slab, and replace with a 6" thick reinforced concrete slab on prepared base and subbase as described on the Drawings. This unit cost is based on more than 900 S.F. of paved surface. (See SECTION 03001).	2.000%
23	Remove existing 6" (+/-) thick reinforced concrete walk or isolated slab, and replace with a 6" thick reinforced concrete slab on prepared base and subbase as described on the Drawings. This unit cost is based on 300 S.F. minimum of paved surface (see SECTION 03000).	1.000%
24	Remove existing 6" (+/-) thick reinforced concrete walk or isolated slab, and replace with a 6" thick reinforced concrete slab on prepared base and subbase as described on the Drawings. This unit cost is based on more than 1000 S.F. of paved surface, (See SECTION 03000).	3.000%
25	Remove and replace sections of existing concrete street curb per the Drawings. (See SECTION 30001).	3.000%
26	Laborer - Straight Time	2.000%
27	Finisher - Straight Time	2.000%
28	Forman - Straight Time	3.000%
29	Laborer - Overtime	2.000%
30	Finisher - Overtime	2.000%
31	Forman - Overtime	3.000%
32	Laborer - Holiday	2.000%
33	Finisher - Holiday	2.000%
34	Forman - Holiday	3.000%
35	Concrete - Cubic Yard	6.000%
36	Reimforcing Steel - Ton	6.000%
		100.000%

END OF SECTION

SECTION 02200

EARTHWORK

PART 1 - GENERAL

1.01 SCOPE

A. DESCRIPTION OF WORK

Provide the materials, labor, equipment and supervision necessary and reasonably incidental to the earthwork as shown on the Drawings.

B. RELATED DOCUMENTS

GENERAL CONDITIONS.....SECTION 01000
CONCRETE.....SECTION 03300
ARCHITECTURAL CONCRETE.....SECTION 03351

1.02 SUBMITTALS

A. PROCEDURE

Comply with SECTION 01000.

B. SHOP DRAWINGS

None required.

C. BROCHURES, CUT SHEETS, AND TECHNICAL DATA

Submit technical data certifying compliance to the properties listed in these specifications and including Material Safety Data Sheets (MSDS) on the geotextile. Maintain one (1) copy of each MSDS at the work site.

D. SAMPLES

None required.

1.03 QUALITY ASSURANCE

A. Codes and Standards: Perform excavation work in compliance with applicable requirements of governing authorities having jurisdiction.

B. Testing: At the College Representative's discretion, the College will arrange and pay for the services of an independent testing lab to take soil samples, monitor the work, and report on the compliance of materials and installation to these Specifications.

- C. Inspector: Notify the College Representative 24 hours prior to the completion of compaction to arrange for inspection and/or testing.

1.04 JOB CONDITIONS

- A. Existing Utilities: Locate existing underground utilities in the areas of work. If utilities are to remain in place, provide adequate means of protection during earthwork operations.

Should uncharted, or incorrectly charted, piping or other utilities be encountered during excavation, consult the College Representative immediately for directions. Cooperate with College in keeping respective services and facilities in operation. Repair damaged utilities to satisfaction of the College.

Do not interrupt existing utilities serving facilities occupied and used by College unless approved in advance by the College Representative.

Demolish and completely remove from site existing underground utilities indicated to be removed. Coordinate with the College for shut-off of services if lines are active.

- B. Use of Explosives: The use of explosives is not permitted.
- C. Protection of Persons and Property: Barricade open excavations occurring as part of this work and post with warning lights. Operate warning lights as recommended by authorities having jurisdiction.

Protect structures, utilities, sidewalks, pavements, and other facilities from damage caused by settlement, lateral movement, undermining, washout and other hazards created by earthwork operations.

PART 2 - PRODUCTS

- A. ***Materials and Equipment to be provided shall be the standard cataloged products of manufacturers regularly engaged in manufacture of the products.***

2.01 SOIL MATERIALS

- A. FILL MATERIAL
 - 1. Pavement Subbase: Pumped Mississippi River sand (batture sand,

sugar sand) meeting ASTM D2487 classification SM, free of organic matter.

NOTE: Subbase material will be used wherever soft clay soil is encountered in the bottom of the excavation. A unit in-place price for this material is included in the Bid Form and will be used at the discretion of the College Representative upon inspection of the completed excavation. If required, the quantity and cost of installing this material will be added by direction of the College Representative and will be paid at the unit installed (compacted) cost listed on the Bid Form.

2. Pavement Base: Crushed concrete, meeting the requirements of ASTM D 2940.
3. Backfill: Spillway dirt, free of organic matter.
4. Satisfactory Material: Excavated material used for backfill shall be free from organic matter, have a liquid limit of 25 or less and plasticity index of 6 or less, and be acceptable to the College Representative.

2.02 GEOTEXTILE

A. MINIMUM PROPERTIES

1. Equivalent Opening Size: $100 < \text{EOS} < 200$.
2. Permeability: 10^{-3} cm/sec.
3. UV Radiation Resistance (Uncovered Exposure): 30 days Uncovered Exposure.
4. Tensile Strength/Elongation (Wide Width Tensile Test ASTM D 459)5: 180 lb./in @ 20%.
5. Puncture Resistance (ASTM D 3787): 115 lb.
6. Mullen Burst Strength (ASTM D 3786): 600 psi.

PART 3 - EXECUTION

3.01 EXCAVATION

A. GENERAL

1. Legally dispose of excess material and waste materials as herein specified.

2. Cold Weather Protection: Protect excavation bottoms against freezing when atmospheric temperature is less than 35° F.

B. SHORING AND BRACING

1. Provide and maintain materials for shoring and bracing, such as sheet piling, uprights, stringers and cross-braces, in good serviceable condition.
2. Establish requirements for trench shoring and bracing to comply with local codes and authorities having jurisdiction.
3. Maintain shoring and bracing in excavations regardless of time period excavations will be open. Carry down shoring and bracing as excavation progresses.
4. Provide permanent steel sheet piling or pressure creosoted timber sheeting piling wherever subsequent removal of sheet piling might permit lateral movement of soil under adjacent structures, paving, etc. Cut off tops as required and leave permanently in place.

C. DEWATERING

1. Prevent surface water and subsurface or ground water from flowing into excavations and from flooding project site and surrounding area.
2. Do not allow water to accumulate in excavations. Remove water to prevent softening of foundation bottoms, undercutting footing, and soil changes detrimental to stability of subgrades and foundations. Provide and maintain pumps, well points, sumps, suction and discharge lines, and other dewater system components necessary to convey water away from excavations.
3. Convey water removed from excavations and rain water to collecting or run-off areas. Establish and maintain temporary drainage ditches and other diversions outside excavation limits for each structure. Do not use trench excavations as temporary drainage ditches.

D. EXCAVATION FOR PAVEMENTS

Cut surface under pavements to comply with cross-sections, elevations and grades as shown.

3.02 GEOTEXTILE

Place without folds or wrinkles; adjacent panels overlap in accordance with manufacturers' recommendations, but in no case less than 1'-6".

3.03 COMPACTION

A. EQUIPMENT

1. Unless otherwise specified, use compaction equipment sufficient to provide the field compaction effort required by the respective materials.
2. For crushed concrete, use a vibrating compaction roller with a minimum total weight of 500 pounds.

B. PERCENTAGE OF MAXIMUM DENSITY REQUIREMENTS

Compact soil to not less than the following percentages of maximum dry density determined in accordance with ASTM D1557 (modified proctor) or as otherwise stipulated:

1. Backfill: Compact each layer of backfill to 95% maximum dry density.
2. File Supported Slabs: Compact fill sufficiently to support the concrete until concrete design strength is reached.
3. Lawn or Unpaved Areas: Compact each layer of fill material to 90% maximum dry density.
4. Walkways: Compact each layer of fill material at 95% maximum dry density.
5. Pavements: Compact each layer of fill material at 95% maximum dry density in accordance with DOTD TR418, Method E.

C. MOISTURE CONTROL

1. Where subgrade or layer of soil material must be moisture conditioned before compaction, uniformly apply water to surface of subgrade or layer of soil material.
2. Remove and replace, or scarify and air dry, soil material that is too wet to permit compaction to specified density.
3. Soil material that has been removed because it is too wet to permit compaction may be stock piled or spread and allowed to dry. Assist drying by harrowing or pulverizing until moisture content is reduced to a satisfactory value.

3.04 BACKFILL AND FILL

A. GENERAL

Place backfill soil or satisfactory excavated material in layers to required subgrade elevations.

B. EXCAVATIONS

1. Backfill excavations as promptly as work permits, but not until completion of the following:
 - a. Acceptance by College Representative of construction below finish grade including, where applicable, damp proofing, waterproofing, and perimeter insulation.
 - b. Removal of concrete formwork.
 - c. Removal of shoring and bracing, and backfilling of voids with satisfactory materials. Cut off temporary sheet piling driven below bottom of structures and remove in manner to prevent settlement of the structure or utilities, or leave in place if required.
 - d. Removal of trash and debris.
 - e. Permanent or temporary horizontal bracing is in place on horizontally supported walls.

C. GROUND SURFACE PREPARATION PRIOR TO PLACING FILL

1. Remove vegetation, debris, unsatisfactory soil materials, from ground surface prior to placement of fills. Stumps and roots exposed in the preparation shall be excavated to a depth of one foot and filled.
2. Subgrade shall be firmly proof-rolled by means of a roller weighing approximately 3 tons. All weak spots thus developed shall be cleaned out, backfilled and compacted as specified for that area.

D. PLACEMENT AND COMPACTION

1. Place and compact backfill in layers not more than 6" to 8" thick.
2. Before compaction, moisten or aerate each layer as necessary to provide the optimum moisture content. Compact each layer to required percentage of maximum dry density. Do not place backfill or fill material on surface that are muddy, frozen, or contain frost or ice.

3.05 GRADING

A. GENERAL

Uniformly grade areas within limits of grading under this section,

including adjacent transitions area. Smooth finish surface within specified tolerance, compact with uniform levels or slopes between points where elevations are shown, or between such points and existing grades.

1. Grading Outside Building Lines: Grade adjacent to building lines to drain away from structures and to prevent ponding.

Finish surfaces free from irregular surface changes, and as follows:

- a. Lawn or Unpaved Areas: Finish areas to receive topsoil to within not more than 0.10' above or below the required subgrade elevations.
- b. Walks: Shape surface of areas under walks to line, grade and cross-section, with finish not more than 0" above or 1/2" below the required subgrade elevation.
- c. Pavements: Shape surface of area under pavement to line, grade and cross-section, with finish surface not more than 0" above or 1/2" below required subgrade elevation.

B. GRADING SURFACE OF FILL UNDER BUILDING SLABS

Grade smooth and even free of voids, compacted as specified, and to required elevation. Provide final grades with a tolerance of 1/4" when tested with a 10' straightedge.

C. COMPACTION

After grading, compact subgrade to the depth and percentage maximum density for each area classification.

3.06 MAINTENANCE

1. Protection of Graded Areas: Protect newly graded areas from traffic and erosion. Keep free of trash and debris.

Repair and re-establish grades in settled, eroded, and rutted areas to specified tolerance.

2. Reconditioning Compacted Areas: Where completed areas are disturbed by subsequent construction operations or adverse weather, scarify surface, re-shape, and compact to required density prior to further construction.

3.07 DISPOSAL OF EXCESS AND WASTE MATERIALS

Remove and legally dispose of excess excavated material, trash, and waste materials off College property. **END**

SECTION 03300

CONCRETE

PART 1 - GENERAL

1.01 SCOPE

A. Description of Work: Provide the materials, labor, equipment and supervision necessary and reasonably incidental to the cast-in-place concrete, including formwork, reinforcement, mix design, placement procedures and finishes as shown on the Drawings and specified here.

B. Related Work Specified Elsewhere:

GENERAL CONDITIONS.....SECTION 01000
EARTHWORK.....SECTION 02200
ARCHITECTURAL CONCRETE.....SECTION 03351

1.02 SUBMITTALS

A. Procedure: Comply with SECTION 01000.

B. Shop Drawings: None required.

C. Brochures, Cut Sheets, and Technical Data:

Before beginning work:

1. Brochures and Cut Sheets: Submit brochures and technical data sufficient to describe the products proposed for use on this project.

2. Material Safety Data Sheet (MSDS): Submit on substances and mixtures containing at least 1% hazardous chemical which are proposed for use on this project. Specifically, submit MSDS on curing compound, form oil, expansion joint filler, joint caulking, concrete, and concrete admixtures. Maintain one (1) copy of each MSDS at the site during the work.

3. Concrete Mix Design: Submit data on each concrete mix proposed for use on this project. Include performance data on all materials included in the mix. Identify each mix design by number, that number will appear on all site delivery tickets.

D. Samples: None required.

1.03 QUALITY ASSURANCE

A. Standard Specifications: Comply with ACI 301 (latest revision) and

standard industry practice.

- B. Testing: At the College Representative's discretion, the College will arrange and pay for the services of an independent testing lab to monitor the pour, take samples and report on the quality of the concrete placed on this project.
- C. Inspection: Notify the College Representative 24 hours prior to the placement of concrete. Advise time when all formwork and reinforcing steel will be ready for inspection.

1.04 JOB CONDITIONS

A. Weather Limitations:

- 1. Do not place concrete when the outside temperature is 40° F or lower and dropping.
- 2. Protect finished concrete from damage by weather.

- B. Concrete Washout: Prepare an area distant from the work site for use by the concrete delivery trucks for washout. At the completion of the project, remove all concrete residue from the wash area including cement laitance, sand, and gravel.

PART 2 - PRODUCTS

- A. ***Materials and Equipment to be provided shall be the standard cataloged products of manufacturers regularly engaged in manufacture of the products.***

Certain items in this Specification are listed by manufacturer and/or manufacturer's model number to establish general style, type, character and quality of the product desired. Similar items manufactured by other than those listed will be considered, providing submittals are made according to "Pre-Bid" approval requirements of "Instructions" Article 3.3.

Where no manufacturer or model number are given, any product meeting performance or design criteria, or referenced trade associations standards may be used and "Pre-Bid" approval is not required.

2.01 CONCRETE MATERIALS

- A. Portland Cement: ASTM C 150 Type I or II.

B. Pozzolans (Optional):

- 1. Fly Ash: ASTM C 618. Type C, Maximum percent 25 by weight. Maximum

loss on ignition: 3 percent by weight.

2. Ground Granulated Blast-Furnace Slag. ASTM C 989. Maximum percent 50 by weight. Grade 100 or higher only.
- C. Aggregates: ASTM C 33.
- D. Admixtures General: Use of admixtures is at Contractor's option. Admixtures containing added chloride are not permitted. Use admixtures from only one manufacturer in all mixes unless approved in writing by College Representative.
 1. Water-Reducing Admixture: ASTM C 494 Type A.
 - a. Polyheed 997 by Master builders.
 - b. Eucon WR-75 by Euclid Chemical.
 - c. Plastocrete 161 by Silka Chemical Co.
 2. Water-Reducing Admixture: ASTM C 494 Type D.
 - a. Pozzolith R by Master Builders.
 - b. Eucon Retarder by Euclid Chemical.
 - c. Plastiment by Silka Chemical Co.
 3. Water-Reducing Accelerating Admixture: ASTM C 494 Type E.
 - a. NC 534 by Master Builders.
 - b. Accelguard 80 by Euclid Chemical.
 4. High Range Water-Reducing Admixture: ASTM C 494 Type F.
 - a. Rheobuild by Master Builders.
 - b. Eucon 37 by Euclid Chemical.
 - c. Sikament 10 ESL by Sika Chemical Co.
- E. Bonding Compound: Polyvinyl acetate or acrylic base, rewettable type. Subject to compliance with requirements, products which may be incorporated in the work include, but are not limited to, the following:
 1. "Daraweld C"; W.R. Grace & Co.
 2. "Everbond"; L & M Construction Chemicals.
 3. "SBR Latex"; Euclid Chemical Co.
 4. "Sonocrete"; Sonneborn-Chemrex.

2.02 REINFORCING

A.Reinforcing Steel:

1. Bars: ASTM A615, Grade 60.

2. Welded wire fabric: ASTM A 185. Plain wire, unless otherwise noted on the Drawings. Use only sheet material; roll wire is not acceptable.
- B. Reinforcing Support:
 1. Bottom Reinforcement: Support from the ground on precast concrete pads not less than 4 inches square of proper thickness.
 2. Top Slab Reinforcement: Support from ground by metal chairs which in turn shall be supported by 6" x 6" x 1" precast concrete pads.
 3. Precast Concrete Pads: Shall have a compressive strength equal to the specified compressive strength of the concrete being placed and shall be normal weight concrete.
 4. Alternate Means: Other means of support for reinforcement from ground may be used if acceptable to the College Representative.

2.03 RELATED MATERIALS

- A. Form Release Agent:
 1. General: Use a commercial formulation form release compound that will not bond with, stain nor adversely affect concrete surfaces, and will not impair subsequent treatment of concrete surfaces requiring bond or adhesion. Apply in compliance with manufacturer's written instructions.
 2. Acceptable Products

Eucoslip; The Euclid Chemical Co.
Debond; L & M Construction Chemicals
Nox-Crete Form Coating; Nox-Chem Chemicals
Magic-Coat; Symons Corp.
- B. Curing Compound:
 1. General Compound: ASTM C 309 Type I. Use clear non-yellowing acrylate type. Minimum solids content by weight 30 percent. Submit independent test data indicating maximum moisture loss of 0.030 grams per square centimeter when applied at a rate of 300 square feet per gallon.
 - a. Masterkure N-Seal-HS by Master Builders Repair & Product Div of Chemrex
 - b. Super Rez-Seal by Euclid Chemical Co.
 2. Dissipating Curing Compound: ASTM C 309 Type I. Compound shall not prevent the bonding of any type of finish or floor topping.
 - a. Kurez DR by Euclid Chemical Co.
 - b. L&M Cure by L&M Construction Products.

C. Expansion Joint Filler:

1. Of thickness and width shown on the Drawings - in longest lengths available to full width of paving joint.
2. Meet ASTM D-994.
3. Tex-Mastic: Asphalt (Bituminous) or Seal Tight Asphalt.

D. Joint Caulking:

1. Concrete Walks: Elastomeric, cold applied, meeting ASTM D1850.
 - a. Chem Caulk 550; color: black.
 - b. Lion D200, summer grade, color: black.
2. Street Paving: Asphalt Mineral filler meeting the Louisiana Department of Transportation and Development Standard Specification for Roads and Bridges, 1982 Edition, Section 1005.02, paragraph d-1 (page 499).

E. Insert:

1. Inserts include embedment's, block outs, bollards, conduit and anchor bolts.
2. Insert construction details and positions are shown on the Drawings.

- F. Vapor Barrier: Where shown on the Drawings, place a 10-mil polyethylene sheet conforming to ASTM 4397 over the soil prior to placing reinforcing steel. Omit barrier on top of previously placed concrete or piles.

- G. Identification Dye: Rainbow Mortar Dye, or equal. Color: Red.

H. GROUT

1. Non-Shrink Grout: ASTM C 1007. Provide non-metallic grout Grade B or C only. Grout must meet ASTM C 1107 at a temperature range of 50°F to 90°F at a flowable consistency. Submit independent data verifying compliance with ASTM C 1107 at 90°F without modifications.
 - a. Set Grout by Master Builders Repair & Protect Div. of Chemrex Inc.
 - b. Euclid Hi Flow by Euclid Chemical.
 - c. Sika Grout 212 by Sika Chemical Co.

2.04 PROPORTIONING AND DESIGN OF MIXES

- A. General: Proportion concrete to meet plastic and hardened properties as specified on the Drawings. Prepare design mixes for each type and

strength of concrete by either laboratory trial batch or field experience methods as specified in ACI 301.

1. Strength: 3500 psi at 28-days.
2. Weight: normal (150 pc)
3. Slump: Maximum slump of all concrete shall be four inches, unless a high range water-reducing admixture is used. Maximum slump for concrete containing high range water-reducing admixture is 9-inch.
4. Maximum Chloride Ion Content: Water Soluble at 28-days shall not exceed 0.06 percent by weight. Submit data to verify conformance to this requirement for all mixes to College Representative.
5. Regular Concrete will be used in all concrete work except for street paving and architectural concrete work. This is specifically identified on the Bid Form.
6. Fly Ash: See paragraph 2.01.1.
7. Ready-Mixed: Per ASTM C 94.

PART 3 - EXECUTION

3.01 EQUIPMENT

Sufficient to transport, place, consolidate, screed, finish, cure and protect the concrete.

3.02 FORMWORK

A. General

1. Construct and position formwork size, shape, alignment, elevation, and position as shown on the Drawings.
2. Select form materials to obtain required finishes.
3. Support to maintain position during concrete placement and cure.
4. Oil forms to facilitate clean removal. DO NOT PERMIT FORM OIL TO COAT REINFORCING STEEL.
5. Position expansion and control joints as shown on the Drawings.
6. Maintain formwork tolerances and surface irregularities within ACI 347 limits, Class A tolerances for concrete exposed to view and Class C

tolerances for other concrete surfaces.

7. Provide openings in formwork to accommodate work of other trades. Accurately place and securely support items built into forms.
 8. Clean and adjust forms prior to concrete placement. Apply form-release agents or wet forms as required. Retighten forms during concrete placement, if required, to eliminate mortar leaks.
- B. Earth Cuts: Unless shown or noted otherwise on the Drawings, earth cuts may be used as forms for footings and for interior sides of first floor beams cast with floor slab providing dimensions can be controlled between plus 6" and minus 0" in each direction for width and length footing and between plus 3" and minus 0" for width of beam.
- C. Form Removal: Do not remove forms and shoring used to support the weight of concrete in beams and slabs until concrete has reached sufficient strength to support the weight of the concrete plus all construction loads.

3.03 REINFORCEMENT

1. Place and position reinforcing steel as called for on the Drawings; tie and shore to prevent movement during concrete placement.
2. Maintain clearance between surface of reinforcing bar and edge of concrete as shown on the Drawings.
3. Support reinforcing steel off base grade using precast concrete pads at 30" centers maximum in both directions.
4. Keeping reinforcing steel clean and free of mud and form oil.
5. Accurately position inserts to locations called for on the Drawings. Coordinate reinforcing with the position and anchorage requirements of the inserts.
6. Accurately position and maintain alignment of dowels at expansion joints.

3.04 CASTING CONCRETE

- A. General: Comply with ACI 304 and ASTM C 94.
- B. Delivery: Concrete trucks are not permitted off existing paved streets and established parking areas. Where necessary provide transport between delivery trucks and work site which will not damage existing grass areas, utilities and concrete walks.

C. Placement of Concrete:

1. In Forms: Deposit concrete continuously or in layers so that no concrete will be placed on concrete that has hardened sufficiently to cause the formation of seams or planes of weakness.
2. Slabs-On-Ground: Deposit and consolidate concrete in continuous manner within limits of construction joints, until the placing of a panel or section is completed.
3. Bonding to Hardened Concrete: Use bonding agent where fresh concrete is placed against hardened or partially hardened concrete surfaces.
4. Vibration: All concrete shall be thoroughly consolidated by means of mechanical vibrators. Vibration shall be in accordance with ACI 309, minimum frequency of 8000 vibrations per minute. Do not use vibrators to transport the concrete.

D. Finish:

1. Flat Surfaces: Floated broom, finish.
Floated, sand finish.
Steel trowel, smooth.
2. Street Paving: Herringbone sack finish.
3. Formed Surfaces: Immediately upon removal of formwork, patch honeycomb areas as follows:
 - a. Clean honeycomb removing loose concrete, gravel, etc. (chips as necessary) leaving a sound concrete surface for bonding.
 - b. Thoroughly moisten area to be patched.
 - c. Using a stiff paste of 1-part cement, 3 parts sand and sufficient water for mixing, completely fill the void. Give surfaces exposed to public view a "Grout Cleaned Finish".
 - d. Apply curing compound after patching.
4. Underground Duct Bank: Sprinkle dye on the freshly placed concrete with sufficient coverage to distinctly change the color of the concrete. Install red dye in concrete-mix.
5. Check and level surface plane to tolerances of F(F) 18 (floor flatness) and F(L) 15 (floor levelness). Cut down high spots and fill low spots. Uniformly slope surfaces to drains.

3.05 CONCRETE CURE

- A. Curing for slabs to receive an applied floor finish: All slabs indicated on Finish Schedule to receive an applied finish of any type

shall receive an application of specified Non-Residual type curing compound in strict accordance with manufacturer's printed instructions.

- B. Curing and sealing for slabs which will remain exposed: All exposed slabs, not indicated for applied finishes, shall receive the specified curing/sealing compound in strict accordance with manufacturer's printed instructions.

One application shall be made immediately after final finishing slab and at the following rates:

Broom finish - 200 square feet/gallon;

Steel troweled finish - 300 square feet/gallon.

NOTE: Do not apply curing compound to the sides of joints which require caulking.

3.06 JOINT TREATMENT

- A. Expansion Joint Filler: Position as shown on the Drawings. Allow sufficient depth between the finish concrete surface and the top of the joint filler strip to accommodate the finish joint sealant. Against edges of existing concrete, remove loose gravel and debris from between surfaces preventing a path for leakage of the fresh sealant.
- B. Joint Caulking:
1. Apply in a neat, workmanlike manner completely filling the joint above the filler material flush with the concrete surface.
 2. Apply per manufacturer's written installation instructions.
 3. DO NOT OVERFILL...REMOVE EXCESS MATERIAL FROM THE CONCRETE SURFACE. Repair sinkholes and/or low spots.

3.07 VAPOR BARRIER

1. Lap 18" minimum sides and end. Tape joints.
2. Neatly fit around conduit, plumbing, column, and other slab penetrations. Tape seal at penetrations.
3. Completely cover area below slab. Extend into bottom of grade beams. Cut around piles and pile caps.

3.08 PROTECTION

1. Do not permit traffic on concrete work for seven (7) days minimum.

2. Provide sufficient barricades to protect freshly placed concrete for damage including pedestrian, bicycles and motor vehicles.
3. Cover entire surface with visqueen to protect from vandalism. Weigh down sufficiently with sand, boards, bricks, etc. to prevent blow off by wind or other easy removal.

3.09 CLEAN-UP

Comply with SECTION 01000.

Remove excess and/or spilled material. Do not wash out or discard excess material, solvents, thinners, etc. on College property; legally dispose of such material off College property.

Remove marks, fingerprints, smudges, stains, dirt, and grease from visible surfaces.

3.10 ACCEPTANCE

Comply with SECTION 01000.

Demonstrate repeated successful operation to the College Representative.

END

SECTION 03351

ARCHITECTURAL CONCRETE

PART 1 - GENERAL

1.01 SCOPE

- A. Description of Work: Provide the materials, labor, equipment and supervision necessary and reasonably incidental to the cast-in-place concrete, including formwork, reinforcement, mix design, placement procedures and finishes as shown on the Drawings and specified here.
- B. Related Work Specified Elsewhere:

GENERAL CONDITIONS.....SECTION 01000
EARTHWORK.....SECTION 02200
CONCRETE.....SECTION 03300

1.02 SUBMITTALS

- A. Procedure: Comply with SECTION 01000.
- B. Shop Drawings: None required.
- C. Brochures, Cut Sheets, and Technical Data:

Before beginning work:

- 1. Brochures and Cut Sheets: Submit brochures and technical data sufficient to describe the products proposed for use on this project.
- 2. Material Safety Data Sheet (MSDS): Submit on substances and mixtures containing at least 1% hazardous chemical which are proposed for use on this project. Specifically, submit MSDS on curing compound, form oil, expansion joint filler, joint caulking, concrete, and concrete admixtures. Maintain one (1) copy of each MSDS at the site during the work.
- 3. Concrete Mix Design: Submit data on each concrete mix proposed for use on this project. Include performance data on all materials included in the mix. Identify each mix design by number, that number will appear on all site delivery tickets.
- D. Samples: None required.

1.03 QUALITY ASSURANCE

- A. Standard Specifications: Comply with ACI 301 (latest revision) and standard industry practice.
- B. Testing: At the College Representative's discretion, the College will arrange and pay for the services of an independent testing lab to monitor the pour, take samples and report on the quality of the concrete placed on this project.
- C. Inspection: Notify the College Representative 24 hours prior to the placement of concrete. Advise time when all formwork and reinforcing steel will be ready for inspection.

1.04 JOB CONDITIONS

- A. Weather Limitations:
 - 1. Do not place concrete when the outside temperature is 40° F or lower and dropping.
 - 2. Protect finished concrete from damage by weather.
- B. Concrete Washout: Prepare an area distant from the work site for use by the concrete delivery trucks for washout. At the completion of the project, remove all concrete residue from the wash area including cement laitance, sand, and gravel.

PART 2 - PRODUCTS

- A. ***Materials and Equipment to be provided shall be the standard cataloged products of manufacturers regularly engaged in manufacture of the products.***

Certain items in this Specification are listed by manufacturer and/or manufacturer's model number to establish general style, type, character and quality of the product desired. Similar items manufactured by other than those listed will be considered, providing submittals are made according to "Pre-Bid" approval requirements of "Instructions" Article 3.3.

Where no manufacturer or model number are given, any product meeting performance or design criteria, or referenced trade associations standards may be used and "Pre-Bid" approval is not required.

2.01 CONCRETE MATERIALS

- A. Portland Cement: ASTM C 150 Type I or II.

B. Pozzolans: Not permitted.

C. Aggregates: ASTM C 33.

D. Admixtures General: Use of admixtures is at Contractor's option. Admixtures containing added chloride are not permitted. Use admixtures from only one manufacturer in all mixes unless approved in writing by College Representative.

1. Water-Reducing Admixture: ASTM C 494 Type A.

- a. Polyheed 997 by Master builders.
- b. Eucon WR-75 by Euclid Chemical.
- c. Plastocrete 161 by Silka Chemical Co.

2. Water-Reducing Admixture: ASTM C 494 Type D.

- a. Pozzolith R by Master Builders.
- b. Eucon Retarder by Euclid Chemical.
- c. Plastiment by Silka Chemical Co.

3. Water-Reducing Accelerating Admixture: ASTM C 494 Type E.

- a. NC 534 by Master Builders.
- b. Accelguard 80 by Euclid Chemical.

4. High Range Water-Reducing Admixture: ASTM C 494 Type F.

- a. Rheobuild by Master Builders.
- b. Eucon 37 by Euclid Chemical.
- c. Sikament 10 ESL by Sika Chemical Co.

2.02 REINFORCING

A. Reinforcing Steel:

1. Bars: ASTM A615, Grade 60.

2. Welded wire fabric: ASTM A 185. Plain wire, unless otherwise noted on the Drawings. Use only sheet material; roll wire is not acceptable.

B. Reinforcing Support:

1. Bottom Reinforcement: Support from the ground on precast concrete pads not less than 4 inches square of proper thickness.

2. Top Slab Reinforcement: Support from ground by metal chairs which in turn shall be supported by 6" x 6" x 1" precast concrete pads.

3. Precast Concrete Pads: Shall have a compressive strength equal to the specified compressive strength of the concrete being placed and shall

be normal weight concrete.

4. Alternate Means: Other means of support for reinforcement from ground may be used if acceptable to the College Representative.

2.03 RELATED MATERIALS

A. Form Release Agent:

1. General: Use a commercial formulation form release compound that will not bond with, stain nor adversely affect concrete surfaces, and will not impair subsequent treatment of concrete surfaces requiring bond or adhesion. Apply in compliance with manufacturer's written instructions.

2. Acceptable Products

Eucoslip; The Euclid Chemical Co.
Debond; L & M Construction Chemicals
Nox-Crete Form Coating; Nox-Chem Chemicals
Magic-Coat; Symons Corp.

B. Curing Compound:

NONE! The exposed aggregate slabs will be covered with burlap and water cured for seven (7) days minimum. Use of a curing compound is not permitted on this project.

C. Expansion Joint Filler:

1. Of thickness and width shown on the Drawings - in longest lengths available to full width of paving joint.
2. Meet ASTM D-994.
3. Tex-Mastic: Asphalt (Bituminous) or Seal Tight Asphalt.

D. Joint Caulking:

1. Concrete Walks: Elastomeric, cold applied, meeting ASTM D1850.
 - a. Chem Caulk 550; color: black.
 - b. Lion D200, summer grade, color: black.
2. Street Paving: Asphalt Mineral filler meeting the Louisiana Department of Transportation and Development Standard Specification for Roads and Bridges, 1982 Edition, Section 1005.02, paragraph d-1 (page 499).

E. Insert:

1. Inserts include embedment's, block outs, conduit and anchor bolts.

2. Insert construction details and positions are shown on the Drawings.
- F. Vapor Barrier: Where shown on the Drawings, place a 10-mil polyethylene sheet conforming to ASTM 4397 over the soil prior to placing reinforcing steel. Omit barrier on top of previously placed concrete or piles.
- G. Identification Dye: Rainbow Mortar Dye, or equal. Color: Red.
- H. Grout:
 1. Non-Shrink Grout: ASTM C 1007. Provide non-metallic grout Grade B or C only. Grout must meet ASTM C 1107 at a temperature range of 50°F to 90°F at a flowable consistency. Submit independent data verifying compliance with ASTM C 1107 at 90°F without modifications.
 - a. Set Grout by Master Builders Repair & Protect Div. of Chemrex Inc.
 - b. Euclid Hi Flow by Euclid Chemical.
 - c. Sika Grout 212 by Sika Chemical Co.
 - I. Surface Retarder Exposed Aggregate: Burke "Trud Etch-50", or W.R. Grace "Daratard-17".
 - J. Gravel (Exposed Aggregate): Smooth river gravel meeting the requirements of ASTM C 33, except 3/8" maximum size.

2.04 PROPORTIONING AND DESIGN OF MIXES

- A. General: Proportion concrete to meet plastic and hardened properties as specified on the Drawings. Prepare design mixes for each type and strength of concrete by either laboratory trial batch or field experience methods as specified in ACI 301.
 1. Strength: 3500 psi at 28-days.
 2. Weight: normal (150 pc)
 3. Slump: Maximum slump of all concrete shall be four inches, unless a high range water-reducing admixture is used. Maximum slump for concrete containing high range water-reducing admixture is 9-inch.
 4. Maximum Chloride Ion Content: Water Soluble at 28-days shall not exceed 0.06 percent by weight. Submit data to verify conformance to this requirement for all mixes to College Representative.
 5. Fly Ash: Not permitted
 6. Ready-Mixed: Per ASTM C 94.

PART 3 - EXECUTION

3.01 EQUIPMENT

Sufficient to transport, place, consolidate, screed, finish, cure and protect the concrete.

3.02 FORMWORK

A. General

1. Construct and position formwork size, shape, alignment, elevation, and position as shown on the Drawings.
 2. Select form materials to obtain required finishes.
 3. Support to maintain position during concrete placement and cure.
 4. Oil forms to facilitate clean removal. DO NOT PERMIT FORM OIL TO COAT REINFORCING STEEL.
 5. Position expansion and control joints as shown on the Drawings.
 6. Maintain formwork tolerances and surface irregularities within ACI 347 limits, Class A tolerances for concrete exposed to view and Class C tolerances for other concrete surfaces.
 7. Provide openings in formwork to accommodate work of other trades. Accurately place and securely support items built into forms.
 8. Clean and adjust forms prior to concrete placement. Apply form-release agents or wet forms as required. Retighten forms during concrete placement, if required, to eliminate mortar leaks.
- B. Earth Cuts: Unless shown or noted otherwise on the Drawings, earth cuts may be used as forms for footings and for interior sides of first floor beams cast with floor slab providing

dimensions can be controlled between plus 6" and minus 0" in each direction for width and length footing and between plus 3" and minus 0" for width of beam.

- C. Form Removal: Do not remove forms and shoring used to support the weight of concrete in beams and slabs until concrete has reached sufficient strength to support the weight of the concrete plus all construction loads.

3.03 REINFORCEMENT

1. Place and position reinforcing steel as called for on the Drawings; tie and shore to prevent movement during concrete placement.
2. Maintain clearance between surface of reinforcing bar and edge of concrete as shown on the Drawings.
3. Support reinforcing steel off base grade using precast concrete pads at 30" centers maximum in both directions.
4. Keeping reinforcing steel clean and free of mud and form oil.
5. Accurately position inserts to locations called for on the Drawings. Coordinate reinforcing with the position and anchorage requirements of the inserts.
6. Accurately position and maintain alignment of dowels at expansion joints.

3.04 CASTING CONCRETE

- A. General: Comply with ACI 304 and ASTM C 94.
- B. Delivery: Concrete trucks are not permitted off existing paved streets and established parking areas. Where necessary provide transport between delivery trucks and work site which will not damage existing grass areas, utilities and concrete walks.
- C. Placement of Concrete:
 1. In Forms: Deposit concrete continuously or in layers so that no concrete will be placed on concrete that has hardened sufficiently to cause the formation of seams or planes of weakness.
 2. Slabs-On-Ground: Deposit and consolidate concrete in continuous manner within limits of construction joints, until the placing of a panel or section is completed.
 3. Vibration: All concrete shall be thoroughly consolidated by means of mechanical vibrators. Vibration shall be in accordance with ACI 309, minimum frequency of 8000 vibrations per minute. Do not use vibrators to transport the concrete.
- D. Finish:
 1. Slab Surface: (Where noted on the Drawing.)

NOTE: Contractor's option - Either method "a" or "b" described below may be used to obtain the exposed aggregate finish surface treatment. Workmanship and skill are required to obtain the desired results.

- a. Exposed aggregate: Screed surface. Broadcast a heavy cover of 3/8" diameter smooth, washed gravel; steel trowel forcing topping gravel into surface. Apply retarder per manufacturer's written instruction, pressure washing to remove the loosened cement and sand after the required waiting period.
- b. Exposed Aggregate: Screed surface. Float. Broadcast a heavy cover of 3/8" diameter smooth, washed gravel; roll the surface using a steel drum roller with a diameter of 18" minimum and a weight of 100 pounds minimum; steel trowel forcing topping gravel into surface. Permit concrete to set to begin; brush and pressure wash surface to remove the surface cement exposing the surface aggregate.

Where directed by the College Representative, match existing adjacent surface finish as closely as possible.

- 3. Formed Surfaces: Immediately upon removal of formwork, patch honeycomb areas as follows:
 - a. Clean honeycomb removing loose concrete, gravel, etc. (chips as necessary) leaving a sound concrete surface for bonding.
 - b. Thoroughly moisten area to be patched.
 - c. Using a stiff paste of 1-part cement, 3 parts sand and gravel and sufficient water for mixing, completely fill the void. Surfaces exposed to public view should match adjacent exposed aggregate finish.

3.05 CONCRETE CURE

Following the removal wash on the exposed aggregate surface and initial set of the steel trowel finish, cover the entire surface of the new concrete with two layers of moistened burlap. Keep the burlap layer continuously saturated for seven (7) days minimum.

DO NOT APPLY CURING COMPOUND.

3.06 JOINT TREATMENT

- A. Expansion Joint Filler: Position as shown on the Drawings. allow sufficient depth between the finish concrete surface and the top of the joint filler strip to accommodate the finish joint sealant. Against edges of existing concrete, remove loose gravel and debris from between surfaces preventing a path for leakage of the fresh sealant.
- B. Joint Caulking:
 - 1. Apply in a neat, workmanlike manner completely filling the joint above

the filler material flush with the concrete surface.

2. Apply per manufacturer's written installation instructions.
3. DO NOT OVERFILL...REMOVE EXCESS MATERIAL FROM THE CONCRETE SURFACE. Repair sinkholes and/or low spots.

3.07 VAPOR BARRIER

1. Lap 18" minimum sides and end. Tape joints.
2. Neatly fit around conduit, plumbing, column, and other slab penetrations. Tape seal at penetrations.
3. Completely cover area below slab. Extend into bottom of grade beams. Cut around piles and pile caps.

3.08 PROTECTION

1. Do not permit traffic on concrete work for seven (7) days minimum.
2. Provide sufficient barricades to protect freshly placed concrete for damage including pedestrian, bicycles and motor vehicles.

3.09 CLEAN-UP

Comply with SECTION 01000.

Remove excess and/or spilled material. Do not wash out or discard excess material, solvents, thinners, etc. on College property; legally dispose of such material off College property.

Remove marks, fingerprints, smudges, stains, dirt, and grease from visible surfaces.

3.10 ACCEPTANCE

Comply with SECTION 01000.

Demonstrate repeated successful operation to the College Representative.

END

VI. BID FORM

Service Contract No: 40006-055

Item No.	Description	UOM	Price
1	Remove existing 6" (+/-) thick reinforced concrete walk or isolated slab, and replace with a 6" thick reinforced concrete slab on prepared base and subbase as described on the Drawings. This unit cost is based on 300 S.F. minimum of paved surface (see SECTION 03000).	S.F	
2	Remove existing 6" (+/-) thick reinforced concrete walk or isolated slab, and replace with a 6" thick reinforced concrete slab on prepared base and subbase as described on the Drawings. This unit cost is based on more than 1000 S.F. of paved surface, (See SECTION 03000).	S.F	
3	Remove existing 6" (+/-) thick reinforced concrete walk or isolated slab, and replace with a 6" thick reinforced exposed aggregate concrete slab on prepared base and subbase as described on the Drawings. This unit cost is based on 300 S.F. minimum of paved surface, (See SECTION 03331).	S.F	
4	Remove existing 6" (+/-) thick reinforced concrete walk or isolated slab, and replacement with a 6" thick reinforced exposed aggregate concrete slab on prepared base and subbase as described on the Drawings. This unit cost is based on more than 1000 S.F. of paved surface, (See SECTION 03331).	S.F	
5	Place a 6" thick reinforced concrete slab on prepared base and subbase as described on the Drawings. This unit cost is based on 300 S.F. minimum of paved surface, (See SECTION 03000).	S.F	
6	Place a 6" thick reinforced concrete slab on prepared base and subbase as described on the Drawings. This unit cost is based on more than 1000 S.F. of paved surface, (See SECTION 03000).	S.F	
7	Place a 6" thick reinforced exposed aggregate concrete slab on prepared base and subbase as described on the Drawings. This unit cost is based on 300 S.F. minimum of paved surface, (See SECTION 03331).	S.F	
8	Place a 6" thick reinforced exposed aggregate concrete slab on prepared base and subbase as described on the Drawings. This unit cost is based on more than 1000 S.F. of paved surface. (See SECTION 03331).	S.F	

Item No.	Description	UOM	Price
9	Place a 6" thick reinforced concrete slab on undisturbed excavated soil as described on the Drawings. This unit cost is based on 300 S.F. minimum of paved surface, (See SECTION 03000).	S.F	
10	Place a 6" thick reinforced concrete slab on undisturbed excavated soil as described on the Drawings. this unit cost is based on more than 1000 S.F. of paved surface, (See SECTION 03000).	S.F	
11	Place a 6" thick exposed aggregate reinforced concrete slab on undisturbed excavated soil as described on the Drawings. This unit cost is based on 300 S.F. minimum of paved surface, (See SECTION 03331).	S.F	
12	Place a 6" thick exposed aggregate reinforced concrete slab on undisturbed excavated soil as described on the Drawings. This unit cost is based on more than 1000 S.F. of paved surface, (See SECTION 03331).	S.F	
13	Core drill a 4" diameter hole through an existing 6" thick reinforced concrete slab on grade: 1 to 6 holes.	EA	
14	Core drill a 6" diameter hole through an existing 6" thick reinforced concrete slab on grade: 1 to 6 holes.	EA	
15	Core drill a 12" diameter hole through an existing 6" thick reinforced concrete slab on grade: 1 to 6 holes.	EA	
16	Core drill a 4" diameter hole through an existing 6" thick reinforced concrete slab on grade: 6 or more holes	EA	
17	Core drill a 6" diameter hole through an existing 6" thick reinforced concrete slab on grade: 6 or more holes.	EA	
18	Core drill a 12" diameter hole through an existing 6" thick reinforced concrete slab on grade: 6 or more holes.	EA	
19	Sawcut existing concrete surface, 1" deep (minimum).	L.F	

Item No.	Description	UOM	Price
20	Sawcut existing concrete surface, 3" deep (minimum).	L.F	
21	Remove existing 8" (+/-) thick reinforced concrete street paving and replace with an 8" thick reinforced concrete slab on prepared base and subbase as described on the Drawings, including saw cuts to permit demolition. This unit cost is based on 400 S.F. minimum of paved street surface, (See SECTION 03001).	S.F	
22	Remove existing 6" (+/-) thick reinforced concrete walk or isolated slab, and replace with a 6" thick reinforced concrete slab on prepared base and subbase as described on the Drawings. This unit cost is based on more than 900 S.F. of paved surface. (See SECTION 03001).	S.F	
23	Remove existing 6" (+/-) thick reinforced concrete walk or isolated slab, and replace with a 6" thick reinforced concrete slab on prepared base and subbase as described on the Drawings. This unit cost is based on 300 S.F. minimum of paved surface (see SECTION 03000).	S.F	
24	Remove existing 6" (+/-) thick reinforced concrete walk or isolated slab, and replace with a 6" thick reinforced concrete slab on prepared base and subbase as described on the Drawings. This unit cost is based on more than 1000 S.F. of paved surface, (See SECTION 03000).	S.F	
25	Remove and replace sections of existing concrete street curb per the Drawings. (See SECTION 30001).	L.F	

NOTES:

Invoicing will be based on the actual (or minimum where so stipulated) surface area paved at the unit price quoted for the applicable category. Invoice will show all area calculations and associated unit cost and category.

Additional Hourly Labor and Material Rates Schedule.

This is for additional work that may be requested by the College that falls outside of the scope of this Yearly Service Contract. The contractor shall provide a proposal to the College Representative for approval before any additional work begins.

ITEM NO.	DESCRIPTION	UNIT	RATE		
			STRAIGHT	OVERTIME	HOLIDAY
1	Laborer	\$/HR			
2	Finisher	\$/HR			
3	Forman	\$/HR			

ITEM NO.	DESCRIPTION	UNIT	UNIT BID (\$)
1	CONCRETE	CU YARD	
2	REINFORCING STEEL	TON	

Note 1: OVERTIME RATE will be used for work done outside of the hours of 8:00am – 4:30pm Monday through Friday.

Note 2: HOLIDAY RATE will be used if work is done on any recognized State or Federal Holiday. The rate is allowable and does not depend if DELGADO is open or closed on these recognized Holidays.

Note 3: Travel time is included in labor rates. DELGADO does not pay any additional and/or separate travel time. Labor rates start when contractor is on site.

5.Parts/Materials Cost: % Less MSRP (List) price	_____%
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Note 4: Contractor is required to show cost breakdown for parts/materials.

Note 5: The % off MSRP List price is the same for all parts/materials, regardless of where the parts/materials are procured from.

6.Materials Cost that do not have a MSRP : Cost plus a (%)percentage of cost.	_____%
--	--------

Note 6: This will only be used for materials where an MSRP cannot be established.

Note 7: The College reserves the right to procure any parts/materials and provide them to the contractor.

MATERIAL

If materials are required to complete any work requested by the College which are outside the scope of the Technical Specifications, the contractor shall prepare a list of these materials along with pricing for approval by the College Representative. If these materials are incidentals (total value less than \$50), or are items which will not be required on a repetitive basis and their total cost is less than the competitive thresholds specified in the most current Executive Order for Small Purchase Procedures, the College may choose to purchase the items from the contractor at the quoted prices.

If the items not specifically listed in the ITB exceed the Executive Order’s competitive threshold, the required competition must be secured by the College. The College reserves the right to purchase any materials required and provide to the contractor.

Contractor is responsible to supply all necessary tools and for the transportation of personnel and equipment required to complete any project.

Addendum No: _____ Dated: _____	Addendum No: _____ Dated: _____
Addendum No: _____ Dated: _____	

Bidder declares and represents that he; a) has carefully examined the Bidding Documents, b) has a clear understanding of the Bidding Documents, c) has not received, relied on, or based his bid on any verbal instructions contrary to the Bidding Documents, d) has personally inspected and is familiar with the project site, and hereby proposes to provide all labor, materials, tools, appliances and facilities as required to perform, in a workmanlike manner, all work and services under this contract, all in accordance with the Bidding Documents as prepared by the College Purchasing Office and Facility Services.

By signing below, the Bidder agrees that he/she complies with all bid requirements, instructions, specifications, terms and conditions and special conditions as stated in the bid.

Signature _____

Title _____

Company _____

****Bid must be submitted on this form***

ATTACHMENT A: INDEMNIFICATION AGREEMENT

_____ **{Contractor/Vendor/Lessee}** agrees to protect, defend, indemnify, save and hold harmless the State of Louisiana, all State departments, Agencies, Boards and Commissions, its officers, agents, servants, employees, and volunteers, from and against any and all claims, demands, expense and liability arising out of injury or death to any person or the damage, loss or destruction of any property which may occur or in any way grow out of any act or omission of _____ **{Contractor/Vendor/Lessee}** its agents, servants, and employees, or any and all costs, expense and/or attorney fees incurred by _____ **{Contractor/Vendor/Lessee}** as a result of any claims, demands, suits and/or causes of action except those claims, demands, suits and/or causes of action arising out of the negligence of the State of Louisiana, all State Departments, Agencies, Boards, Commissions, its officers, agents, servants, employees and volunteers. _____ **{Contractors/Vendor/Lessee}** agrees to investigate, handle, respond to, provide defense for and defend any such claims, demands, suits, or causes of action at its sole expense and agrees to bear all other costs and expenses related thereto, even if the claims, demands, suites, or causes of action are groundless, false or fraudulent.

Accepted by: _____
Company Name

Signature _____

Title _____

Date Accepted _____

Is certificate of insurance attached? _____ YES _____ NO

****This form must be completed and submitted with your bid**

ATTACHMENT B: REFERENCE FORM

_____	_____
(Company Name)	(Facility Type)
_____	_____
(Address)	(Phone Number)

(Contract Administrator)	

_____	_____
(Company Name)	(Facility Type)
_____	_____
(Address)	(Phone Number)

(Contract Administrator)	

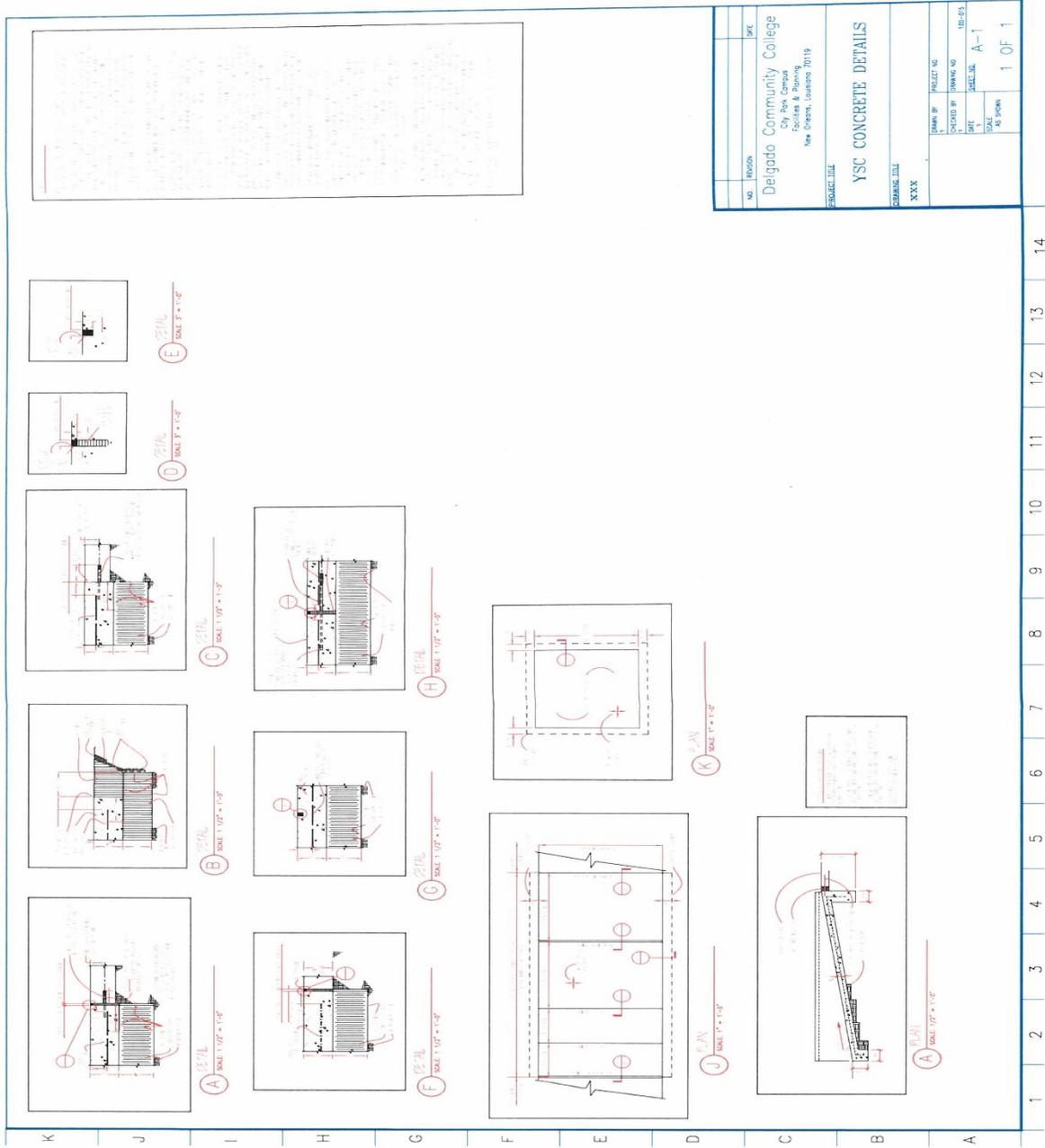
_____	_____
(Company Name)	(Facility Type)
_____	_____
(Address)	(Phone Number)

(Contract Administrator)	

****Form must be completed and submitted with the bid***

ATTACHMENT C: DRAWING

Note: Please email tsheff@dcc.edu for a file copy of the drawing



END OF BID DOCUMENTS