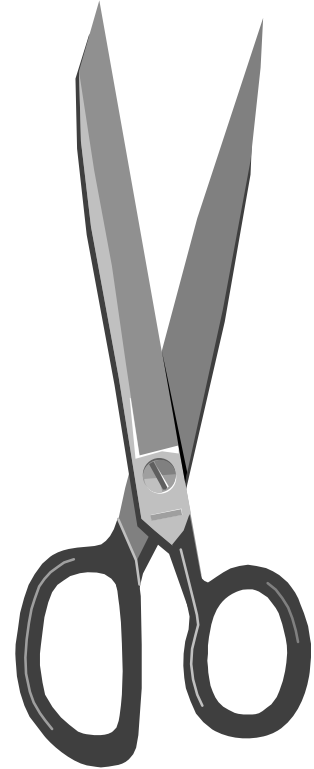


Cut along the outer border and affix this label to your sealed bid envelope to identify it as a “Sealed Bid”. Neither faxed nor electronically submitted bids will be accepted. Be sure to include the name of the company submitting the bid where requested.

DELIVER TO: PURCHASING DEPARTMENT School Board of Polk County 1915 South Floral Avenue, PO Box 391 Bartow, FL 33831-0391
SEALED BID DO NOT OPEN
SEALED BID NO.: 024-MHH-1010
BID TITLE: Ready Mix Concrete
DUE DATE/TIME: October 20, 2009@ 3:00PM
SUBMITTED BY: _____ Name of company



Please Note:

From time to time, addenda may be issued to this bid. Any such addenda will be posted on the same web site from which you obtained this bid. Vendors receiving bids via US mail will be sent notification of all addenda. If you downloaded the bid from this web site, you will need to check the web site to see if there are any addenda that have been posted.

Interested vendors must have a completed vendor application on file with the School Board Purchasing Department prior to bid award in order for your bid to be considered. The Vendor Application Form is available from our web site at <http://www.polk-fl.net/districtinfo/departments/businessservices/purchasing.htm> Click on “[Vendor Application](#)” from the menu on the left side of the screen and follow the instructions.

THE SCHOOL BOARD OF POLK COUNTY, FLORIDA

P.O. BOX 391
BARTOW, FLORIDA 33831-0391

1915 SOUTH FLORAL AVENUE
BARTOW, FLORIDA 33830-7124

INVITATION TO BID

Bid Title Ready Mix Concrete

Bid File Number 024-MHH-1010 Posted September 30, 2009

Sealed bids will be received until 3:00 PM on October 20, 2009 in the School Board Purchasing Office at the above address. The official clock for the purpose of receiving bids is located in the Purchasing Office. All bids must be date and time stamped by the official clock. Bids will be opened in the Purchasing Offices after the deadline for receiving bids. Any bid received in Purchasing after the deadline indicated above will be date and time stamped and will not be opened. It is vendors' responsibility to see that their bids are properly received at the correct location prior to the deadline. Your bid must be on this form with the Bidder Acknowledgment completed. Inquiries on this bid should be addressed to: Harold Hamby telephone (863) 534-0575, FAX (863) 534-0802, E-Mail harold.hambyjr@polk-fl.net.

BIDDER ACKNOWLEDGMENT

The undersigned, having carefully examined the "Invitation to Bid" with any attached "Special Terms and Conditions" agrees to abide by all conditions of the bid and offers to furnish the items or services as set forth. I further certify that I am authorized to sign this bid.

<u>VENDOR NAME</u>	<u>MAILING ADDRESS</u>
<u>PRINT OR TYPE SIGNATURE AND TITLE</u>	<u>CITY, STATE, ZIP</u>
<u>WRITTEN SIGNATURE</u>	<u>DATE</u>
<u>TELEPHONE NUMBER (TOLL FREE, IF AVAILABLE)</u>	<u>FAX NUMBER</u>
<u>E-MAIL ADDRESS</u>	<u>FEID NUMBER</u>

DISCOUNT: Our company offers the following discount schedule: _____.

NOTE: THE ABOVE BIDDER ACKNOWLEDGMENT MUST BE SIGNED FOR YOUR BID TO BE ACCEPTED.

GENERAL INSTRUCTIONS AND CONDITIONS

- CONTRACT PERIOD:** Bids that do not offer prices good until the following date will not be accepted: November 30, 2010. Contract(s) awarded from this bid will begin on November 18, 2009 and will run through November 30, 2010.
- F.O.B. DELIVERY POINT:** All prices bid must include delivery charges to stated destination(s) as follows: See bid form.
- POSTING OF BID AWARDS:** Recommended award of this bid will be posted at the School Board Administrative Offices on or about October 23, 2009 and will remain posted for a period of 72 hours. Bid tabulations will not be mailed. Bid files and tabulations may be examined during normal working hours.
- PRICES AND TAXES:** All prices are normally fixed for the duration of the contract period. Fluctuating or adjustable prices are only acceptable if so stated in the Special Terms and Conditions". The School Board is exempt from State sales and use taxes and Federal excise taxes. (State Exemption No. 85-8013927632C-8)

5. **DISCOUNTS:** Bidders may offer a cash discount for prompt payment; however, such discounts shall not be considered in bid evaluation unless all other factors are equal. Bidders are encouraged to reflect cash discounts in the unit prices quoted.
6. **DELIVERY:** Deliveries must be made in accordance with specified delivery schedules or as soon as possible after receipt of the purchase order if no delivery schedule is specified or bid. All delivery containers must be marked with the Polk County School Board purchase order number and product item number. Unless stated otherwise, all products being shipped into the Board's warehouse shall be packaged in cardboard cartons so as to prevent damage both in transit and in the warehouse. For all truck deliveries into the warehouse, the Bidder is required to provide notification AT LEAST 24 HOURS PRIOR TO DELIVERY. For Bartow deliveries, call Warehouse Receiving at (863) 534-0910. Truck drivers will be required to assist in unloading.
7. **QUANTITIES:** Quantities shown are not guarantees of purchase. The Board may purchase additional quantities during the life of the contract unless the bid sheets are noted, "Bid is for Specified Quantity Only," by the Bidder. The bid sheets must state, "Minimum Reorder Quantities," if applicable.
8. **EQUIVALENT PRODUCTS:** Any manufacturers' trade, brand, model or catalog number listed as a specification is for information purposes and not to limit competition. The Bidder may offer any equivalent current production model which meets or exceeds the specifications unless noted otherwise in the specifications. If an equivalent model is offered, the Bidder must clearly indicate any deviation from the specifications and include complete descriptive literature on alternate item(s) or the items will not be considered.
9. **SPECIFICATIONS:** All items offered must be in accordance with specifications except as noted above. Minor departures from specifications may be considered at the option of the Board. When applicable, all products shall carry evidence of Underwriters' Laboratory (UL) listing and comply with the requirements of the Occupational Safety and Health Act, (OSHA). When applicable, delivered items must be accompanied by a Material Safety Data Sheet (MSDS). If product packing or packaging is to be different than specified in the bid, the Bidder must state any deviation. The bid, lacking any statement to the contrary, will be received as being in complete compliance with specifications. When more than one bid meets all specifications, the Board reserves the right to determine the "Lowest and Best" bid. Bid items are subject to testing at the Bidder's expense. Delivery of items not meeting specifications is cause for removal from the list of acceptable Bidders and no payment will be made for the entire delivery, including usage.
10. **SAMPLES:** When requested, samples will be furnished at Bidder's expense. Requests for sample returns must be made within 30 days of the bid opening. If no return request is made, the samples will become the property of the Board. Failure to submit samples when required may result in non-acceptance of the bid.
11. **SERVICE AND WARRANTY:** Bidder should attach any warranties offered and explain warranties and service provided. These may not be in conflict with warranties required in the specifications.
12. **ACCEPTANCE OR REJECTION:** The right to accept or reject any bids or individual items in the bids and to waive irregularities in bids is reserved by the Board.
13. **DETERMINATION OF BID AWARD BASIS:** Unless specifically excluded by the Bidder, bid awards may be made on either a composite or a line item basis.
14. **MISTAKES:** In case of mathematical errors, the Bidder's unit price shall be considered the bid price. It is the Bidder's responsibility to understand the terms, conditions, and specifications of the bid. Failure to do so will be at the Bidder's risk.
15. **PLACING AND ACCEPTANCE OF ORDERS:** The award of this bid does not constitute an order. Before delivery is made the Bidder must receive a duly executed purchase order or contract. Acceptance by the Bidder is assumed upon issue by the Board of a duly executed purchase order or contract. Inspection and acceptance of items will be at the stated destination(s) unless otherwise provided, and title to and risk of loss or damage is the responsibility of the Bidder until acceptance by the Board.
16. **ASSIGNMENT, INVOICES, AND PAYMENT:** No assignment of an order or monies to be derived there from is acceptable without the prior written approval of the Board. All invoices must be submitted in triplicate to the Board with each purchase order being invoiced separately. Payment shall be made upon presentation of properly prepared invoices. Payment is generally made on the next Friday following the week in which invoicing is completed.

17. **PERFORMANCE:** If the Bidder refuses or is unable to make delivery within a reasonable time, the Board may hold the Bidder responsible for any damages or costs incurred by the Bidder's actions. The Board may withhold payments pending satisfactory compliance with the terms of the agreement. The Bidder shall hold and save the Board and Board employees harmless from liability of any kind in the performance of this contract.
18. **CONTRACT FAILURE:** Should any Contractor fail to enter into a contract with the School Board on the basis of the submitted bid by said Contractor, Contractor acknowledges that Contractor shall be liable to the School Board for the difference between such bid price and the price the School Board pays to secure the merchandise from another source. Failure to pay said amount to the School Board upon demand will result in the company being removed from the bid list for a period of not less than two (2) years from the date of infraction.
19. **CONFLICT OF INTEREST:** All Bidders must disclose with their bid the name of any officer, director, or agent who is also an employee of the Board. Further, all Bidders must disclose the name of any Board employee who owns, directly or indirectly, any interest of any amount in the Bidders firm or branches.
20. **ATTACHMENTS:** All attached sheets are a part of this bid and any Special Terms and Conditions contained therein which are in conflict with the GENERAL INSTRUCTIONS AND CONDITIONS shall have precedence.
21. **ADDENDUM:** Any changes in this bid shall be in the form of a written addendum by the Purchasing Director. No other person shall be authorized to make changes verbally or in writing. It shall be the responsibility of the bidder to ascertain if any addenda have been issued and to obtain all such addenda. Any Addendum shall be returned with this bid by the Bidder.
22. **EXTENSION:** The Board reserves the option to extend the contract period provided the Bidder is in agreement. The request for extension shall be submitted by the Bidder in writing.
23. **DISPUTES:** Any person who may be adversely affected by an intended decision with respect to the award of any bid, may protest such a decision by following the Bid Protest Procedure of the School Board of Polk County. A copy of the Procedure, which has been prepared in accordance with the provisions of the Florida Administrative Code, is available upon request and is permanently posted at the Administrative Offices of the School Board of Polk County, Florida. Failure to follow the requirements of the bid protest procedures established by the School Board of Polk County, Florida shall constitute a waiver of all protest rights. Failure to file a protest within the time prescribed in Section 120.57(3), Florida Statutes, shall constitute a waiver of proceedings under Chapter 120, Florida Statutes.
24. **PREFERENCE FOR DRUG-FREE WORKPLACE:** Whenever two or more bids which are equal with respect to price, quality, and service are received, preference shall be given to a bid received from a business that certifies that it has implemented a drug-free workplace program in accordance with Section 287.087, Florida Statutes. In order to receive preference, a signed certification of compliance must be submitted with the bid response.
25. **AGREEMENT:** This Bid and the Purchase Orders issued hereunder constitute the entire agreement between the School District and the Vendor awarded the bid. No modification of this bid shall be binding on the District or the Bidders.
26. **TERMS AND CONDITIONS:** No additional terms and conditions included with the bid response shall be evaluated or considered and any and all such additional terms and conditions shall have no force and effect and are inapplicable to this bid. If submitted either purposely through intent or design or inadvertently appearing separately in transmitted letters, specifications, literature, price estimates or warranties, it is understood and agreed the General Conditions and Special Terms and Conditions in this bid solicitation are the only terms and conditions applicable to this bid and the bidders authorized signature affixed to the bidder acknowledgment form attests to this.
27. **PUBLIC ENTITY CRIME & CONVICTED VENDOR LIST:** Per the provisions of Florida Statute 287.133 (2)(a), "a person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid on a contract to provide any goods or services to a public entity, may not submit a bid on a contract with a public entity for the construction or repair of a public building or public work, may not submit bids on leases of real property to a public entity, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity, and may not transact business with any public entity in excess of the threshold amount provided in Florida Statute 287.017 for CATEGORY TWO for a period of 36 months from the date of being placed on the convicted vendor list". The prospective bidder certifies, by submission and signature of this bid, that neither the bidder, nor its principal, its agent or its representative is presently debarred, suspended, proposed for debarment, declared ineligible, voluntarily excluded from

participation in this transaction or otherwise precluded by Florida Statute 287.133 from participating in this contract.

28. **DISCRIMINATORY VENDOR LIST:** Per the provisions of Florida Statute 287.134(2)(a), "An entity or affiliate who has been placed on the discriminatory vendor list may not submit a bid on a contract to provide any goods or services to a public entity, may not submit a bid on a contract with a public entity for the construction or repair of a public building or public work, may not submit bids on leases of real property to a public entity, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity, and may not transact business with any public entity." The prospective bidder certifies, by submission and signature of this bid, that neither the bidder, nor its principal, its agent or its representative is presently on the discriminatory vendor list, or otherwise precluded by Florida Statute 287.134 from participating in this contract.
29. **FEDERAL DEBARMENT CERTIFICATION:** Certification regarding debarment, suspension, ineligibility and voluntary exclusion as required by Executive Order 12549, Debarment and Suspension, and implemented at 34 CFR, Part 85, as defined at 34 CFR Part 85, Sections 85.105 and 85.110.
- a. The prospective lower tier participant certifies, by submission and signature of this bid, that neither it, nor its principals, its agents or its representatives are presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
- b. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this bid.
30. **NON-COLLUSION:** The bidder certifies, by submission and signature of this bid, that it warrants that he/she has not employed or retained any company or person other than a bonafide employee working solely for the bidder to solicit or secure this bid and that he/she has not paid or agreed to pay any person, company, corporation, individual or firm, other than a bonafide employee working sole for the bidder, any fee, commission, percentage, gift or any other consideration contingent upon or resulting from this award or making of this bid.

The bidder further certifies that its bid is made without previous understanding, agreement or connection with any person, firm or corporation making a bid for the same item(s) and is in all respects fair, without outside control, collusion, fraud or otherwise illegal action.

31. **SALES TO OTHER PUBLIC AGENCIES:** With the consent and agreement of the successful bidder(s), purchases may be made under this bid by other public agencies within the State of Florida. Such purchases shall be governed by the same terms and conditions as stated herein. (Check where applicable): Agree to extend pricing to ___ School Boards and/or ___ public agencies within the State of Florida.
32. **BID RESPONSES:** If the bid is to be returned via express mail or in a courier envelope, the bid the bid documents should be submitted in a separate sealed envelope within the courier envelope. Express mail or courier envelopes will be opened and discarded. The face of the sealed bid envelope should have attached the label included with the bid package or noted, the Bid File Number and "Attention: Purchasing Department - Sealed Bid." If there is not going to be a bid submitted, return the "No Bid" post card, or return the Invitation to Bid, marked, "No Bid."
33. **TERMINATION OF CONTRACT:** This contract may be terminated without liability to the School Board in whole or in part when it is deemed to be in the best interest of the School Board to so act. Notification of termination must be in writing and issued by the Director of Purchasing or designee. This contract may be terminated upon 30 days written notice. Further, at the discretion of the School Board, the contract may be terminated in a period of less than 30 days in the event of poor performance or violation of the terms and conditions of this contract.

The School Board, upon termination, shall exercise its discretion to complete the balance of the contract consistent with the best interest of the School Board.

SCOTT CLANTON
DIRECTOR, PURCHASING AND WAREHOUSING

NOTE: The Bidder Acknowledgment on Page 1 MUST be signed for your bid to be considered.

Special Terms and Conditions

A. **SCOPE:** It is the intent of the School Board of Polk County to obtain competitive bids to provide and deliver ready mixed concrete as directed by the School Board of Polk County, per specifications listed below, during the initial term, **November 18, 2009 through November 30, 2010**, as well as any extensions as approved by the Board. For the purpose of this Invitation to Bid, the term "Bidder", "Contractor" and "Vendor" shall be considered synonymous.

B. **F.O.B. DESTINATION:** Prices bid for all items shall be F.O.B. Destination and include all shipping charges to all Polk County school locations.

C. **OTHER FEES:** Bidder/Contractor may not add any additional fees to the order including, but not limited to, special handling charges, hazardous materials fees, fuel surcharges, etc.

D. **COMPLIANCE WITH THE JESSICA LUNSFORD ACT:** Florida Statutes contain certain fingerprinting and/or screening requirements pertaining to all persons or entities entering into contracts with Schools/School Boards/School Districts/Charter Schools who may have personnel who will be on school grounds when students may be present. Any individual who fails to meet the statutory requirements shall not be allowed on school grounds. Failure to comply with the statutory requirements will be considered a material default of this contract/agreement. Please visit <http://www.polk-fl.net/community/doingbusinesswithus/jessicalunsfordact.htm> for a list of links to requirements regarding the Jessica Lunsford Act.

E. **AWARD OF CONTRACT:**

1. The School Board of Polk County reserves the right to reject any or all bids and to waive any informalities or irregularities in any bids received.
2. The School Board reserves the right to award this bid in whole or in part to one or more bidders, or to take any other actions that may be in the best interest of the School Board. It is anticipated there will be a recommendation for award of contract based on the lowest bid received from a responsive and responsible bidder. This will be the Primary Contractor award. It is anticipated there will be an additional award based on the second lowest bid received from a responsive and responsible bidder. This will be the Secondary Contractor award. The Board reserves the right to make additional Secondary Contractor awards if it's in the Boards best interest to do so. In the event there is a scheduling conflict, or if the Primary Contractor is unable to perform according to this contract, work may be assigned to the Secondary Contractor. The School Board will be the sole judge of the contractor's performance according to this contract and its decision shall be final.
3. Bid awards shall be as a composite for Items 1-8 on the **BID FORM**.
4. Quantities shown are simply estimates that may be purchased during the bid period and do not obligate the District to purchase the quantities stated on the Bid Form. Purchases may be made for more or less quantities of any particular item, at any time, during the bid period.

F. **BASIS FOR AWARD:** Bidders whose bids, past performance, or current status do not reflect the capability, integrity or reliability to fully and in good faith perform the requirements of the Contract may be rejected as non-responsible.

G. **CANCELLATION:** In the event any of the provisions of this bid are violated by the awarded vendor, the Superintendent or designee will give written notice to the vendor stating the deficiencies and unless the deficiencies are corrected within ten (10) days, recommendation will be made to the Board for immediate cancellation of this contract. Upon cancellation hereunder the Board may pursue any and all legal remedies as provided herein and by law. The Board reserves the right to terminate any contract resulting from this invitation at any time and for any reason, upon giving thirty (30) days prior written notice to the other party. If said contract should be terminated for convenience as provided herein, the Board will be relieved of all obligations under said contract. The Board will only be required to pay to the vendor that amount of the contract actually performed to the date of termination.

H. **WARRANTY OF ABILITY TO PERFORM:** By signing the "Bidder Acknowledgment" on page 1 of this document, the Bidder warrants that, to the best of its knowledge, there is no pending or threatened action, proceeding, or investigation, or any other legal or financial condition, that would in any way prohibit, restrain, or diminish the Bidder's ability to satisfy its Contract obligations. The Bidder warrants that neither it nor any affiliate is currently on the convicted vendor list maintained pursuant to section 287.133 of the Florida Statutes, or on any similar list maintained by any other state or the federal government. The Bidder shall immediately notify the District in writing if its ability to perform is compromised in any manner during the term of the Contract.

I. **QUALIFICATION OF BIDDERS:** Bidders shall have a minimum of two (2) concrete delivery trucks, each capable of handling a minimum of eight (8) cubic yards. By the signing and submission of this Invitation To Bid, the vendor certifies that they meet the two (2) concrete delivery truck minimum. The School Board of Polk County (District) shall reserve the right to inspect the vendors manufacturing facility to confirm the production capability meets this requirement. The District shall be the sole judge and its decision shall be final.

J. **SUBCONTRACTORS:** If a bidder intends to subcontract any portion of this work for any reason, the name and address of the subcontracting firm must be submitted along with their bid for approval. No subcontracting shall take place prior to awarded bidder furnishing this information and receiving written approval from the District.

The subcontractor will be equally responsible for meeting all requirements as specified in Section D. The School Board of Polk County reserves the right to reject a subcontractor who previously failed in the proper performance of an award or failed to deliver on-time contracts of a similar nature, or who (in the opinion of the Superintendent Of Schools, or designee) is not in the position to perform this award. The School Board of Polk County reserves the right to inspect all facilities of any subcontractor in order to make the determination as to the foregoing. In the event the School Board of Polk County elects to reject a subcontractor for cause, the bidder may submit another subcontractor, which will also be subject to approval by the School Board of Polk County.

K. **EMPLOYEES, SUBCONTRACTORS, AND AGENTS:** Nothing contained in these specifications shall be construed as creating any contractual relationship between any subcontractor and the District. The successful firm shall not only be held liable to the School Board of Polk County for the acts and omissions of its employees, but also for the employees of any of its subcontractors. The School Board of Polk County may reject and bar from any facility (for cause) any of the Contractor's employees, subcontractors, or agents.

L. **AUTHORIZATION TO PERFORM UNDER CONTRACT:** All purchases must be properly authorized in advance. Vendors must first obtain a printed purchase order before commencing performance under a contract. Vendors shall take no directions to modify (increase, change, decrease, cancel) a purchase order, once issued, from anyone other than the District's Purchasing Department. Additional work must be authorized in advance by the Purchasing Department; at the discretion of the Purchasing Department either a change order to the original purchase order or a supplemental purchase order will be issued for the requested modification (increase, change, decrease, cancel). The vendor assumes all liability for any costs or damages incurred and payment will be denied for additional work if this procedure is not strictly followed.

M. **USE OF OTHER CONTRACTS:** The School Board reserves the right to utilize any other District contract, any State of Florida Contract, any contract awarded by any other city or county governmental agencies, any other school board, or any other community college/state university system cooperative bid agreement, in lieu of any offer received or award made as a result of this bid, if it is in its best interest to do so. The School Board also reserves the right to separately bid any single order or to purchase any item on this bid if it is in its best interest to do so.

N. **FAMILIARITY WITH LAWS:** The awarded vendor is required to be familiar with all Federal, State, and local laws, ordinances, rules and regulations that may in any manner affect their work. Failure on the part of the vendor to be aware of any law, ordinance, rule or regulation will in no way relieve him from any responsibility or liability arising from the contract award. The awarded vendor assures and certifies that they will comply with all laws, ordinances, rules, regulations, and all other legal requirements.

O. **ADDENDA:** It shall be the responsibility of each responding bidder to check The School Board of Polk County Purchasing Department website @ <http://www.polk-fl.net/community/doingbusinesswithus/purchasing/default.htm> for addendum related to this bid and to obtain all addendum.

P. **LINE ITEM CORRECTIONS:** The use of correction fluid or erasures to correct line item bid prices and/or quantities are not acceptable. Corrections must be by strikethrough (~~strikethrough~~) of the incorrect figures, writing in of correct figures and initialing of the corrections by the originator. Correction fluid or erasure corrected bids will be considered non-responsive for the corrected items only.

Q. EXAMINATION OF CONTRACT DOCUMENTS AND WORK SITES:

1. Before submitting a bid, each Bidder should:
 - (a) visit project site and become familiar with the facilities and equipment that may in any manner affect performance of the work
 - (b) consider federal, state or local laws, ordinances, rules and regulations that may in any way affect performance of the work
 - (c) notify the Purchasing Administrator of all conflicts, errors and discrepancies (if any) in the Bid Documents
2. The Bidder, by and through submission of a bid, agrees that he/she shall be held responsible for having examined the facilities and equipment; become familiar with the nature and extent of the work and any local conditions that may affect the work to be done and the technical expertise, equipment, materials parts and labor required.

R. INSURANCE: The contractor(s) shall take every precaution to prevent injury to persons, particularly children, or damage to public or private property while performing services under this agreement. He shall assume full responsibility for such occurrences if resulting from his operations. Before commencing work, the contractor shall furnish the School Board a certificate of insurance showing his coverage with the following minimum requirements:

<u>TYPE OF INSURANCE</u>	<u>LIMITS OF LIABILITY</u>
Worker's Compensation	Statutory
Commercial General Liability	Combined Single Limit \$1,000,000 per occurrence
Automobile Liability	\$1,000,000 Combined single limit
(All owned autos, or any auto if vehicles other than owned are used).	

- a) The School Board of Polk County shall be named as an additional insured and certificate holder on the certificate for commercial general liability insurance and as a certificate holder for automobile liability insurance. All insurance must be issued by a company or companies approved by the School Board.
- b) The **VENDOR** shall be responsible for assuring that the insurance remains in force for the duration of the contractual period, including any and all option years that may be granted to the **VENDOR**. **A Certificate of Insurance shall contain the provision that the SBPC LOCATION be given no less than thirty (30) days written notice of cancellation.** If the insurance is scheduled to expire during the contractual period, the **VENDOR** shall be responsible for submitting any new or renewed Certificate of Insurance at a minimum of fifteen calendar days in advance of such expiration.

S. **REQUESTS FOR BID INFORMATION & RELATED DATA:** Requests for information relating to bids in process will be addressed without delay when such information has a **material** effect on the completion of your bid response. Every effort will be made to supply other requested information of a less critical nature, such as, **lists of vendors solicited, pre-bid conference attendees, individuals picking up plans and specifications, historical bid data or tabulations** within (48) hours from receipt of a request. Vendors are welcome to visit our offices to obtain the information in person, but we respectfully request that you notify the buyer in advance at the telephone number listed on the **Invitation to Bid** form so that they might have ample opportunity to compile the information for you before you arrive.

If you have Internet access, visit our Web site @ <http://www.polk-fl.net/districtinfo/departments/businessservices/purchasing.htm> to obtain:

- ❖ A copy of a bid packet for a contract or project currently out for bid
- ❖ A listing of all term and recurring contracts awarded by the School Board of Polk County, FL currently in force.
- ❖ A copy of any addenda issued to current bids in process

NOTE: It is the bidders responsibility to check our Web site frequently for updated information.

- ❖ A copy of a Vendor Application Form
- ❖ A copy of our Commodity List which will, when properly completed and returned to Purchasing, enable us to notify you of future bids
- ❖ A listing of departmental personnel, with job titles, phone numbers and email addresses

T. **EMPLOYEES:** The contractor shall at all times enforce strict discipline, good order, proper dress and appearance among employees and shall employ skilled personnel for the assigned work. No person shall be allowed to bring alcoholic beverages, controlled substances, firearms, or dogs to the site. Smoking on school premises is not permitted.

U. **DELIVERY:**

1. To facilitate scheduling concrete delivery the School Board requests the fax number and email address of the awarded bidder(s) dispatcher (ordering/delivery coordinator). Please list this information in the space provided on the BID FORM.
2. Upon notification by School Board personnel, the delivery time shall be scheduled for arrival of concrete on site. Arrival shall be no later than twenty (20) minutes from scheduled delivery time. The supplier shall notify School Board personnel as soon as possible if they cannot comply with scheduled delivery time(s). (A first run pour is customarily not scheduled unless it is over twenty (20) cubic yards.).

V. **BID FORM:** Bidders shall use the original BID FORM provided by the Purchasing Department and enter information only in the spaces where a response is requested. Bidders may use an attachment as an *addendum* to the Bid Proposal Form if sufficient space is not available on the original form for the bidder to enter a complete response. Any modifications or alterations to the original bid documents by the bidder, whether intentional or otherwise, will constitute grounds for rejection of a bid.

W. **LIGHT LOAD:** The School Board of Polk County will not pay a light load charge if the order is greater than 10 cubic yards for a particular pour/order, i.e. a project requiring 22 cubic yards would require 3 loads with the last load being less than 5 cubic yards. The School Board of Polk County will not pay a light load charge for the last load.

X. **SPECIFICATIONS:**

1. **General:** The apparent silence of the Specifications as to any detail, or the apparent omission from it of a detailed description concerning any point, shall be regarded as meaning that only the best commercial practice is to prevail and that only material and workmanship of the finest quality are to be used. All interpretations of the Specifications shall be made on the basis of this statement.

2. **Minimum Standards and Specifications:** The following are minimum standards and specifications applicable to School Board General Concrete mix and installations reprinted directly from the "Polk County School Board Guideline Specifications SECTION 03000 / CONCRETE, GENERAL". Please note not all of the specifications listed in this section are applicable to this bid.

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SECTION 03000 / CONCRETE, GENERAL

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Conform to Division 1, General Requirements, which applies to all sections of this Division 3. Provisions of this Section 03000 also apply to all sections of this Division 3. The articles contained in this section may modify, delete or add to the provisions of the conditions of the Contract.

1.02 RELATED WORK IN OTHER DIVISIONS/SECTIONS

Division 2:	Sitework
Division 4:	Masonry
Division 5:	Metals
Division 7:	Thermal and Moisture Protection
Division 8:	Doors and Windows
Division 9:	Finishes
Division 15:	Mechanical
Division 16:	Electrical

1.03 FIELD MEASUREMENTS AND COORDINATION

- A. Verify all field dimensions to insure close fit with work of adjoining trades.
- B. Coordinate and install work in proper sequence with overall job and in cooperation with other related trades; particularly with bearing concrete masonry work.
- C. Assist other trades in setting their materials to be cast in concrete. Protect these items after setting. Insure they are not moved during concrete placement.

1.04 CONCRETE MIX

- A. Concrete must meet all requirements of ASTM C94 and those herein specified for materials, proportioning mixing and other details of manufacturer, quality and delivery.
- B. Mix Design: all mix designs shall be proportioned in accordance with 1.05 of this section. Each class of concrete shall be furnished in accordance with that scheduled in Part 2 of this section.
- C. The concrete design mix(es) of all concrete to be used during construction of the project shall be submitted to the ARCHITECT for approval prior to the placement of any concrete on the job. Only concrete of approved mix design shall be used during construction. Any concrete supplied which is not of an approved design mix shall be rejected.

1.05 APPLICABLE TECHNICAL CODES AND STANDARDS

Fabricators and CONTRACTORS are to abide by these codes:

- A. Florida Building Code requirements for reinforced concrete (ACI-318/Latest Edition).

1.06 WEATHER CONSIDERATIONS

- A. Cold Weather Requirements: Insure that all concrete materials and all reinforcement, forms, fillers, and ground with which concrete is to come in contact are free from frost. Whenever temperature of surrounding air is below 40 deg. F. all concrete placed in forms is to have a temperature of between 70 and 80 degrees F. and adequate means provided for maintaining temperature of not less than 70 deg. F. for three days or 50 deg. F. for seven days or for as much more time as is necessary to insure proper curing of concrete. Housing, covering or other protection used in connection with curing is to remain in place and intact at least 24 hours after artificial heating is

discontinued. Use no salt or other chemicals for the prevention of freezing. No concrete shall be placed if it is 90° or higher or after 90 minute from the time the batch water is added.

- B. Hot Weather Placement: When hot weather conditions exist that would impair quality and strength of concrete, place concrete complying with ACI 305 and as specified.
1. Cool ingredients before mixing to maintain concrete temperature at time of placement to below 90 deg. F (32 deg. C). Mixing water may be chilled or chopped ice may be used to control temperature (at no cost to the OWNER), provided water equivalent of ice is calculated to total amount of mixing water. Using liquid nitrogen to cool concrete is CONTRACTOR'S option.
 2. Cover reinforcing steel with water-soaked burlap if it becomes too hot, so that steel temperature will not exceed the ambient air temperature immediately before embedding in concrete.
 3. Fog spray forms, reinforcing steel and subgrade just before placing concrete. Keep subgrade moisture uniform without puddles or dry areas.
 4. Use water-reducing retarding admixture when required by high temperatures, low humidity, or other adverse placing conditions, as acceptable to ARCHITECT.

1.07 TESTING

- A. Cylinder Failures: If laboratory test cylinders fail to meet minimum strength required by these specifications, ARCHITECT has the right to order such changes in mix and water-cement ratio as he deems necessary to secure strength required. If job-cylinders fail to show minimum strengths required by these conditions, ARCHITECT may require such changes of conditions and/or curing as will satisfy him that concrete in job will be of proper strength. Changes of conditions may include removal and replacement of concrete in question and retesting, all at no cost to OWNER.
- B. Load Tests: ARCHITECT also has right to order load or core tests at no cost to OWNER on any portion of structure where test cylinders fail to show minimum strengths required. Changes of conditions referred to above may include removal and replacement of concrete in question, at no cost to OWNER. If members or portions of structure show evident failure, such changes or modifications as are necessary to make structure adequate for rated capacity shall be made by CONTRACTORS as determined by ARCHITECT. This may result in removal of and rebuilding of such portions of building by CONTRACTOR without cost to OWNER. Structure shall be considered to have failed to pass test if with 24 hours after removal of test load, the slabs, beams, etc., do not show a recovery of at least 75% of maximum deflection shown during 24 hours while under load.

1.08 CONTRACT DRAWINGS

- A. Contract drawings show dimensions and forms of concrete and sizes and arrangements of reinforcing. Additional details will be furnished by ARCHITECT where necessary to fully explain work required. In case of direct conflict between drawings and schedules in size and shape of concrete members or in size and number of reinforcing bars, schedules govern. For purpose of submitting bid price, structural sheets take precedence over architectural sheets with regard to concrete foundations, walls, columns, slabs, beams, and dimensions of structural features. In case of any conflict between structural and architectural drawings, bring conflict to attention of ARCHITECT, who will issue instructions as to required revisions.

PART 2 - PRODUCTS

2.01 CONCRETE INGREDIENTS

- A. Cementitious Material: Use the following cementitious materials, of the same type, brand and source, throughout Project:
1. Portland Cement: ASTM C 150, Type I/II.
 - a. Fly Ash: ASTM C 618, Class F (Maximum of 20% of the total cementitious materials).
 - b. Ground Granulated Blast-Furnace Slag: (NOT PERMITTED).

- B. Coarse Aggregate for Cast-In-Place Concrete: Conform to ASTM C-33 (3/4" max. size) latest edition, "Standard Specification for Concrete Aggregates".
 - 1. Use 3/8" - 1/2" smooth brown river rock aggregate for concrete placed at curb cuts and side flares in exterior walkways.
- C. Aggregate for Precast Structural Concrete: ASTM C33 or C330.
- D. Fine Aggregate: Conform to ASTM C-33 latest edition, "Standard Specification for Concrete Aggregates". Free of materials with deleterious reactivity to alkali in cement.
- E. Water: ASTM C 94/C 94M and potable.
- F. Chemical Admixtures: Provide admixtures certified by manufacturer to be compatible with other admixtures and that will not contribute water-soluble chloride ions exceeding those permitted in hardened concrete. Do not use calcium chloride or admixtures containing calcium chloride.
 - 1. Water-Reducing Admixture: ASTM C 494/C 494M, Type A.
 - 2. High-Range, Water-Reducing Admixture: ASTM C 494/C 494M, Type F.
 - 3. Plasticizing and Retarding Admixture: ASTM C 1017/C 1017M, Type II.

Use water-reducing, high-range water-reducing or plasticizing admixture in concrete, as required, for placement and workability.

2.02 CONCRETE MIXTURES

- A. Concrete Mix Designs: Prepare design mixtures for each type and strength of concrete, proportioned on the basis of laboratory trial mixture or field test data, or both, according to ACI 301.

Class of Concrete Compressive Strength at 28 days, PSI (minimum)	Size of Aggregate in Normal Concrete	Water to Cement Ratio (maximum)	Slump (±1")
Floor Slabs & Misc. 3000 PSI for 4" slab	3/4" (min.)	.50	4"
Footings 3,000 PSI	3/4" (min.)	.55	4"
Columns & Beams and Elevated Slabs 4,000 PSI	3/8" (max.)	.48	4"
Concrete Block Grout (Chatt) 3,000 PSI	3/8" (max.)	.58	9-10"
Fiber Reinforced Concrete Exterior Sidewalks/ Covered Walks 3,000 PSI	3/8" (max.)	.55	4"

(All tests shall be taken at point of placement.)

- 1. Concrete shall achieve a minimum compressive strength as shown above in 28 days.

2. Maximum allowable entrapped air shall be 2% by volume. Maximum allowable air entraining admixtures shall be 3% by volume. Maximum allowable total air content shall be 5% by volume.

2.03 STEEL

- A. Reinforcing Bars: Conform to ASTM A615-68 (Grade 60, $F_y = 60,000$ psi), domestically produced. Bars to be free from flaws, cracks or other defects of rolling, true to size and shape, and free of loose scales of rust. A thin coating of firmly attached rust is not cause of rejection. Bars to be free from dirt, paint, grease, oil or other destroyers of bond. Reinforcing steel should be free of kinks and not-shop bends. Field bends should only be as directed by the architect.
 1. Synthetic Fiber Reinforcing: Concrete Engineered Reinforcing Fibers shall be polypropylene, collated, fibrillated fibers by Fibermesh, Inc., Chattanooga, TN, CFP Fiber by Forta Corp, or approved equal. Only fibers designed and manufactured specifically for use in concrete from virgin polypropylene and so certified by manufacturer shall be acceptable. Fiber length shall be 3/4". Use at the rate of 1 1/2 pounds per cubic yard.
 2. **Reinforced concrete with synthetic fiber may be used only on exterior concrete slabs beyond building overhangs, covered walks and sidewalks, unless otherwise approved by the OWNER and ARCHITECT. Use of fiber reinforced concrete shall be in accordance with Section 02751.**
- B. Reinforcing Mesh: required at typical installations; where noted on drawings, conform to ASTM A-185 latest edition, "Welded Wire Fabric for Concrete Reinforcement". See architectural and structural drawings.
- C. Steel Plates, Inserts and Fasteners: Conform to ASTM A-7 latest edition, "Steel for Bridges and Buildings".
- D. Structural Steel: Conform to ASTM A-36, A-572, or as noted, latest edition.
- E. Accessory Supports: Use formed steel wire manufactured items, plastic tipped for all exposed concrete work. Concrete bricks may be used to support bottom bars in earth beams. Provide chairs at reinforcing placed over metal deck.

2.04 FORMWORK

- A. Footings: Use fabricated formwork for all work. **Earth forms will not be allowed.**
- B. Formwork, General: Conform to shape, lines and dimensions of members as called for on plans. Forms for concrete to be concealed may be plywood or dressed lumber. Build all forms substantially and sufficiently tight to prevent leakage. Properly brace or tie together to maintain position and shape. Provide feature strips between concrete and masonry where exposed to view. Provide chamfers at all outside corners/edges.

2.05 MISCELLANEOUS PRODUCTS

- A. Vapor Retarder:
 1. Vapor Retarder shall have the following qualities
 - a. Water Vapor Transmission Rate ASTM E96 / 0.04 Perms or lower
 - b. Water Vapor Retarder ASTM E1745 / Class C
 - c. Thickness ACI 302.1R-96 / Not less than 10 mils.
 2. Lap seams 6" minimum, all joints to be taped per vapor retarder manufactures approved material.
(FOR RADON RESISTANT CONSTRUCTION, REFER TO PARAGRAPH 3.05,A,7(a) THIS SECTION).
- B. Construction Joint: Use asphalt felt or polyethylene film as a bond breaker in areas calling for construction joints.

- C. Floor Hardener: Use fluorosilicate base liquid hardener, Sika Hardener produced by Sika Chemical Corp., Solidus liquid hardener #219-2001 produced by Lambert; Protocrete-CDS or as approved by OWNER/ARCHITECT. Apply floor hardener to floor slab surface at interior locations where such slabs are scheduled to be left exposed with no other finish.
- D. Curing Compound: (Refer to part 3.08)
- E. Other: See drawings and subsequent Division 3 specification sections.

PART 3 - EXECUTION

3.01 CONCRETE PROPORTIONING

- A. Insure proportions of cement, aggregate, and water in mix are such as to produce a plastic and workable mass suitable for economical and uniform placement. Make one slump test at time cylinders are made for compression tests. Concrete test reports are to include slump tests, and state where concrete was used. **Slump to not exceed that specified in Paragraph 2.02.** Avoid excessive fluidity which may result in segregation of materials. Insure mix has no free water, clings to coarse aggregate and upper layer of set concrete is free from laitance.
- B. Base water-concrete ratio of mix on established relationships between water-cement and strength of concrete, such as to produce required strength of concrete with least amount of water, consistent with workability of fresh concrete. Include surface water contained on aggregate as part of mixing water in computing water content.
- C. Measure moisture in aggregate by method satisfactory to ARCHITECT which will result within one pound for each 100 pounds of aggregate. Moisture in aggregate shall be a portion of mixing water allowed.
- D. Adjust proportion of fine to coarse aggregates to produce maximum workability. In no instance shall fine to coarse ratio vary more than 1/2 to 1.
- E. If it is ARCHITECT'S opinion that subsequent concrete is not equal to first mixes established, he shall have the right to reject the material and/or request additional laboratory tests and confirmation at CONTRACTOR'S expense.

3.02 CONCRETE MIXING

- A. **Order load size based on method of placement and amount of time available to place.** Mix ready-mixed concrete and deliver in accord with requirement set forth in "Standard Specifications for Ready-Mixed Concrete", (ASTM designation C-94, latest edition). In addition, mix for a period of not less than 10 minutes at a peripheral drum speed of approximately 200 feet per minute. Continue mixing until discharge is completed. At least 3 minutes of mixing period to be at job site. **Concrete will be rejected if not placed in final position within 1-1/2 hours after water is first added to batch.** Concrete at time of placing, to be in such condition that it can be properly placed.

When air temperature is between 85 and 90 deg F, reduce mixing and delivery time from 1-1/2 hours to 75 minutes; when air temperature is above 90 deg F, reduce mixing and delivery time to 60 minutes.

- B. Addition of water to ready-mixed concrete at the jobsite is not recommended and such addition will be at the sole risk of the supplier and CONTRACTOR. Such addition shall be under direct supervision and authorization of on-site quality control representative of concrete supplier, OWNER, ARCHITECT or ENGINEER reserves the right to reject any such field modified concrete, if in their opinion the quality of the concrete has been jeopardized by such modifications.
- C. Concrete shall be deposited continuously so that no concrete will be deposited on concrete which has hardened sufficiently to cause the formation of seams of weakness within the section. If a section cannot be poured

continuously (and no more than 30 minutes between pours), construction joints shall be located as indicated on the contract documents or as permitted. Placing shall be carried on at such a rate that the concrete which is being integrated with fresh concrete is still plastic.

D. See Section 01400 for concrete testing.

3.03 FORMWORK, GENERAL

A. Design and engineering of formwork, as well as its construction, is responsibility of CONTRACTOR.

B. Conform to shape, lines and dimensions of concrete members as shown on drawings. Brace, tie and shore to maintain position and shape and to insure safety to workmen and passerby. Make sufficiently tight to prevent leakage. Design and construct to resist pressure to which they are subjected without sag or displacement and assembled in such manner that their removal will not damage concrete.

C. Provide temporary clean-out openings at bottom of forms for walls, columns and deep beams to facilitate cleaning and inspection immediately prior to concrete placement. Openings to provide complete access to surface on which concrete is to be cast. Reinforcing bars in filled cells shall be sized for low lift grouting, with no more than 5'-0" lifts.

D. Edges of columns, beams, and walls **to be built with no chamfers**, unless shown otherwise on drawings.

E. Provide openings in concrete formwork to accommodate work of other trades, determine size and location of openings, recesses and chases from trades providing such items. Accurately place and securely support items built into forms.

F. Construct formwork so as to insure that concrete surfaces conform to tolerances of Section 2.4, "Recommended Practice for Concrete Formwork" (ACI 347).

3.04 STEEL, GENERAL

A. Shop Work

1. Detail to conform to procedures of ACI 315 latest edition "Manual of Standard Practice for Detailing Reinforced Concrete Structures".

2. Shop bend steel to shapes shown or scheduled on drawings, bend cold. **Field bend no steel except where specifically permitted by ARCHITECT.**

3. Furnish bent steel to job, bundled and tagged to its proper location, as required by CONTRACTOR. Beam and column ties and stirrups are to be fabricated so that outside dimensions are small enough to insure that tolerances to all sides of forms are adhered to.

4. Steel to be free from loose scale, flaking rust, oil, mud and other foreign substances when placed in forms and when covered by concrete. Steel which is not clean is to be cleaned of all foreign material, or is to be removed from forms and site.

B. Field Handling and Placing

1. CONTRACTOR is responsible for accurate placement of all reinforcement. Promptly inform ARCHITECT if any reinforcement does not fit into overall concrete configuration, with proper lap and/or coverage, who will consult with CONTRACTOR and issue equitable instruction for resolution.

2. Keep steel clean while placing concrete. Where any spilled concrete dries on steel, thoroughly clean steel before concrete is placed around it. Cleaning of steel may include sand blasting.

3. Place all metal reinforcement accurately, and hold in place to prevent displacement during placing of concrete. Mark location of vertical reinforcement on floor or blocks. All footing dowels or stubs shall be tied accurately in place before footing concrete is placed. Where steel as specified, scheduled or detailed

does not provide top steel in areas where stirrups or web reinforcement is required, provide two #4 bars in top of member for support of stirrup or web reinforcement. Saddle ties are preferred. Use sufficient ties to maintain reinforcement in correct position. Set all column dowels and anchor bolts accurately by use of template.

4. Reinforcing Steel Cover: 3" for all concrete in contact with earth: 1 1/2" for all other concrete work except as shown on drawings.
5. Minimum clear spacing between parallel bars is one bar diameter. In no case shall clear spacing between bars be less than 1 inch nor less than 1 1/3 times the maximum size of the coarse aggregate used. Size of coarse aggregate determined by bar spacing. See paragraphs 2.01 B and 2.01 C of this section.
6. Support all beam and slab reinforcing on chairs as previously called for. No masonry supports will be allowed. Set chairs and spacers according to specifications for placing accessories in manual of Standard Practice of the Concrete Reinforcing Steel Institute. Max. chair spacing = 3'-0".
7. Tie all reinforcing steel firmly in place with not less than No. 18 wire or plastic ties.
8. Lap all bars at splices according to the ACI code requirements but not less than 48 bar diameters nor 24 inches. Bend all horizontal wall bars not less than 18 inches around corners. All column bars shall lap 48 diameters, 2'-6" minimum into column above.
9. At all inside corners a #5 x 6ft. bar shall be placed diagonally in the slab.

3.05 CONCRETE PLACEMENT, GENERAL

- A. Give ARCHITECT and OWNER sufficient advance notice, two working days, before starting any concrete pour, to permit inspection of forms and soil poisoning.
 1. Scheduling of concrete pours shall allow one full working day after 100% completion of all form construction and steel placement prior to commencement of pour.
 2. The ARCHITECT and OWNER'S inspector is to be notified at least one full working day prior to 100% completion of form construction and steel placement. The intent is to allow inspection as soon as possible after 100% completion and provide the CONTRACTOR with approximately one full working day to correct any discrepancies.
 3. The testing laboratory is to be notified as soon as the concrete is scheduled or one full working day in advance, whichever is sooner.
 4. Unless the CONTRACTOR is specifically notified otherwise, both the ARCHITECT and the inspector will inspect prior to each pour.
 5. Pours for sidewalks and equipment pads at grade do not require testing by the laboratory or observation by the inspector or ARCHITECT provided form work and reinforcing are inspected prior to the pour.
 6. **CONTRACTORS are requested to avoid scheduling any concrete pour other than those listed in item 5 above to begin later than 1:00 p.m. any day.**
 7. Under-Slab Vapor Barrier: Install a single layer polyethylene vapor barrier **typically beneath all interior and exterior slabs (and sidewalks)** on grade or fill. Lap all joints six (6) inches minimum, and turn barrier up at walls to top of slab. Tape seal all joints and laps and seal all penetrations under all enclosed building areas.
 8. Built-In Items: determine area to be poured: install and properly locate all conduits, pipes, sleeves, hangers, steel equipment, grounds, anchors, reglets, waterstops and other work required to be built into concrete work.
 - a. Anchor bolts and embeds shall be accurately located, set with templates, and securely held in position prior to and while casting concrete and shall be protected from construction activity until the structure above is in place. Inserting bolts into partially hardened concrete or straightening bent over bolts is prohibited.
 - b. Place dovetail slots aligned and fastened securely to formwork such that they will not be moved during placement of concrete.
 9. Cleaning of Steel and Formwork: before depositing concrete, remove all water and debris from place of deposit. Thoroughly clean any reinforcement and forms coated with foreign material, or with concrete from previous operations.

10. Placement: deposit concrete as nearly as practicable to or not more than six (6) feet from its final position, to avoid segregation due to rehandling or flowing. Carry on at such rate that concrete is at all times plastic and flows readily into space between bars. Deposit no concrete partially hardened or contaminated by foreign material. Use no retempered concrete. Carry concrete placement on as continuous operation until placing of panel or section is completed. Top surfaces are to be level. If section cannot be placed continuously locate construction joints provided for in drawings or approved by ARCHITECT. Pour no concrete within twenty-five (25) feet of workmen placing or securing reinforcement. Free fall is not to exceed 5 feet.
11. Construction and Control Joints: locate as indicated on drawings. Make no other joints in any beams or cantilevers. Any control or construction joint required and not shown on plans will be as directed by, or require approval of ARCHITECT. All control jointing in floor slabs are to be field sawn to 30 percent of slab thickness as soon as workmen can work on slab and cutting operation will not damage finish or spall cut edges, and must be cut on same day of pour, maximum 10 hours after placement. Maximum joint spacing is 12'-0" each way, unless shown otherwise on drawings.
12. Control joints in all exterior slabs, walks, etc., are to be saw-cut. Cuts shall be straight and true with a deviation tolerance of 1/2" in 20'-0". Depth of saw-cut shall be a minimum of 3/8" or as detailed on structural drawings. Tooled joints may be used as shown on drawings and as approved by the OWNER.
13. Construction Joints: install bond breaker where noted on plans. If joint material is necessary (and only as approved by ARCHITECT), match profile section of adjoining concrete members and do not use material more than 1/4" thick.
14. Apply temporary protective cover to finish surfaces while placing concrete to guard against spattering.
15. Comply with ACI 304 Recommended Practice for Measuring, Mixing, Transporting and Placing Concrete.

3.06 COMPACTING CONCRETE, GENERAL

- A. Deposit concrete in horizontal layers not over 12 inches in depth and thoroughly work and compact by spading, rodding, or mechanical vibration into all parts of forms, until air pockets are worked out. Compact to insure dense, smooth concrete surfaces, the thorough filling of forms without voids or pockets, and embedment of all reinforcing and inserts, taking care to avoid vertical joints or inclined planes. Piling up of concrete in forms in such a manner as to permit escape of mortar or flow of concrete itself is not permitted.
- B. Vibrate by means of mechanical internal type concrete vibrators operating at not less than 5,000 pulsations per minute. Use at least one such vibrator for each 25 cubic yards of concrete being placed per hour. Hold vibrators in one position only until concrete has become plastic and has filled all holes or spaces but not long enough to create a pool of mortar. Do not hold vibrators against reinforcing steel, inserts or forms, but move about through mass of concrete itself until concrete has leveled out to fill thoroughly against forms and embedded steel and inserts.
- C. Externally vibrate thin walls and inaccessible sections by manual or mechanical means.
- D. Do not use mechanical vibrators as means of transporting concrete and not to move concrete horizontally in forms. Trucking, walking or handling of heavy materials over freshly placed concrete is prohibited.
- E. Revibration of concrete is not permitted.
- F. The CONTRACTOR shall have a standby vibrator on hand in case of failure.

3.07 REPAIR AND PATCHING, GENERAL

- A. Any concrete which is not formed as shown on plans, or for any reason is out of alignment or level or shows a defective surface is hereby considered as not conforming with intent of these specifications. Remove from job by CONTRACTOR at his expense and replace with concrete meeting these specifications at CONTRACTOR'S expense.

- B. Where damage or imperfection is minor, ARCHITECT/OWNER may permit repair or patching. In latter case, immediately after removing forms, inspect all concrete surfaces, interior and exterior. Patch all honeycombs, voids, stone pockets and holes at once, before concrete is thoroughly dry. Chip away defective areas to depth of not less than one (1) inch, with edges perpendicular to surface. Wet areas to be patched and a space at least 6 inches wide entirely surrounding it, to prevent absorption of water from patching mortar. Apply compatible bonding agent and allow to dry. Use patching material of same proportions as used for concrete, except omit coarse aggregate.

3.08 CURING AND PROTECTION

- A. General: protect all freshly placed concrete from elements and from damage or defacement due to building operations, or passerby.
- B. Top Surfaces: as soon as concrete has hardened sufficiently to prevent damage to it cover top surface with one of the following materials:
1. A vapor barrier such as sisal kraft paper or polyethylene plastic.
 2. A liquid curing compound such as "Cure Seal" by Concrete Service Co., Sonosil (curing), or as approved, free from oil, paraffin, silicone, grease, or wax. The coating is to retain 95% of original mixing water after 7 days when tested in accordance with ASTM 156-40T. Apply at the rate of one gallon per 200 sq. ft. The coating is in no way to adversely affect subsequent painting, application of hardener, or flooring adhesive. If sand or a vapor barrier is used, keep continually wet by sprinkling with water for at least 7 days.
 3. Apply floor hardener on interior slabs scheduled to be left exposed with no other scheduled finish.
- C. Other Surfaces: leave forms in place and keep wet for as long as possible to aid in curing. As soon as they are removed, cure bottoms, tops and sides of all concrete surfaces by coating with an application of liquid curing compound as specified above.

3.09 WORK COORDINATION BETWEEN GENERAL CONTRACTOR AND DIVISION 15 & 16

- A. It is intended that the general CONTRACTOR will be responsible for providing and installing all concrete work including mechanical and electrical equipment bases, inertia blocks, gravity pads and the like, except as noted in paragraph 3.09, B hereinafter.

Unless specifically dimensioned or described in the plans and/or specifications, sizes of these items are to be verified and carefully coordinated with the trades providing and installing the equipment. Anchoring and fastening devices for the equipment are to be provided by the trades supplying such equipment and jointly set into the concrete work to assure accurate placement. Any necessary modifications to such concrete work caused by approved alternative equipment will be the joint responsibility of the general CONTRACTOR and related subcontractor as approved by ARCHITECT and at no additional cost to the OWNER.

- B. Concrete work for outside underground utility trades is assumed to be provided and installed by those respective trades where this work will be fully concealed. (Examples are manholes, grease traps and septic tanks, ductbanks, underground storage tank anchor pads, thrust blocks and the like.)
- C. Backfilling and compaction of all disturbed areas caused by these trades utility line installations under slabs and footings and beyond building lines shall conform to Division 2 requirements and shall be the responsibility of the trade involved as designated by the CONTRACTOR.

END OF SECTION 03000

BID FORM

Enter Bid Pricing Below. Enter a price for all items requested or your bid may be declared non-responsive. BID ONLY THE UNIT OF MEASURE LISTED IN THE BID FORM (Either per yd³ or per Load as indicated below- DO NOT change these units of measure). ANY MODIFICATIONS OR ALTERATIONS TO THE ORIGINAL BID FORM BY THE BIDDER, WHETHER INTENTIONAL OR OTHERWISE, WILL CONSTITUTE GROUNDS FOR REJECTION OF A BID!

ITEMS 1-8 READY MIX CONCRETE

ITEM NO.	DESCRIPTION	Estimated Quantity	Unit price
1.	3000 PSI Ready Mixed Concrete	100	\$ _____ /yd ³
2.	3000 PSI Ready Mixed Concrete with chatt mix (pea gravel)	100	\$ _____ /yd ³
3.	3000 PSI Ready Mixed Concrete with chatt pump mix	300	\$ _____ /yd ³
4.	4000 PSI Ready Mixed Concrete	100	\$ _____ /yd ³
5.	Fiber Mesh, commercial fibers (To be added to Items 1-4 as required)	300	\$ _____ /yd ³
6.	Light Load Charge (if applicable, for loads less than 5 cubic yards / order)	45	\$ _____ /Load
7.	Fuel Surcharge (if applicable)	96	\$ _____ /Load
8.	Environmental Fee (if applicable)	600	\$ _____ /yd ³

Please state company name and authorized signature _____

BID FORM continued

Dispatcher (ordering/delivery coordinator) email address: _____

Dispatcher (ordering/delivery coordinator) Fax number: _____

Comments: _____

NOTE: Sign the "Bidder's Acknowledgment" section on Page 1 of our "Invitation to Bid". Return the original of the Invitation to Bid and retain a photocopy for your files.

Please state company name and authorized signature _____