

DETAILED SPECIFICATIONS

**PART I
READY MIX CONCRETE**

Pursuant to bid and specifications the Contractor will furnish Portland Cement Concrete as described in the most recent NYSDoT *Standard Specifications of Construction & Materials* and addenda. Portland Cement - General either with Pozzolans such as fly ash, blast furnace slag or hydrated lime used to replace portions of Portland Cement, or without Pozzolans in the following classes of Ready Mix, or as approved by the County Highway Superintendent of Highways. Payments shall be made for requested services or materials measured in Customary US units.

SCHEDULING OF PLANT, MATERIAL PICKUP

- A) The County will schedule the plant a minimum of 24 hours in advance of material requirements, unless precluded by emergency field conditions, and/or weather conditions.
- B) Penalty clause for unnecessary delays in delivery of material at site. The County reserves the right to back charge the vendor for delays in excess of 30 minutes per truck, when such delays are a result of other than mechanical breakdowns of the vendor's plant. Charge backs will be based on the excess minutes over 30 minutes, times the average labor wage (including fringe benefits) of the County employee(s) and/or subcontracted employee(s), including truck rental.

OUT OF STOCK ITEMS

- A) It is imperative that the contractor's supplies are adequate to meet the Department's needs. Should the Contractor fail to deliver or provide goods ordered through a Purchase Order issued by the Purchasing Department for either of the following reasons:
 - 1. Does not have product on hand when it is needed.
 - 2. Cannot provide the product because of prior commitments or breakdown.

Then a product deemed by the Superintendent of Highways to be the equal of the specified commodity must be substituted by the contractor at no additional cost or expense to the County.

- B) If an appropriate commodity of equal specification is still not available the Department reserves the right to procure the goods from the next best available source. An alternative supplier will be selected from the bid tabulation to furnish material in accordance with the specifications.

MODIFIED CLASS A MATERIAL FOR INTERIOR FLOOR SLABS

Floor slabs which require the following Class A modified pumpable mix:

Cement	794 lbs
Fine Aggregates	1848 lbs
Course Aggregates #1	944 lbs
Course Aggregates #2	1411 lbs
Water	42.3 gal
Entrapped Air	0 to 3 %
Slump	4" +/- 1"
Plasticizer	Mid or High Range as required for pumping

Low-Density Cellular Concrete (LDCC) PRODUCTS SPECIFICATIONS

MATERIALS

FOAM LIQUID CONCENTRATE: Aerix Industries or equal and shall comply with the standard specifications of ASTM C 869 when tested in accordance with ASTM C 796.

CEMENT: Portland cement shall comply with ASTM C 150. Other supplemental cementitious material such as fly ash may be used when approved by the project engineer. Supplementary cementitious materials should be tested prior to the start of the project for compatibility with the foaming agent.

ADMIXTURES: Admixtures for accelerating, water reducing, and other specific properties may be used when specifically approved by the project engineer. Admixtures should be tested prior to the start of the project for compatibility with the foaming agent.

WATER use water that is potable and free from deleterious amounts of alkali, acid, and organic materials, which would adversely affect the setting or strength of the LDCC.

PROPERTIES

The LDCC shall meet the following properties:

Cast Density, lb/cu.ft (ASTM C 796)	30	36	42
Average Compressive Strength, lb/sq in (ASTM C 495)	40 – 140	80 - 210	120 - 330

Side Walk/Curb Mix Specification

CEMENT: Cement shall be Air Entraining Portland Cement Type 1-A conforming to Serial Designation C150 of the American Society of Testing Materials, or later revision thereof.

FINE AGGREGATE: Fine aggregate shall consist of a clean, sharp, coarse, washed sand; free from acids, silt, mud, organic matter or other deleterious materials.

COARSE AGGREGATE: Coarse aggregate shall be crushed stone. Such stone shall consist of clean, durable, sharp angled fragments of rock free from thin or elongated pieces, soft or disintegrated stone, dirt, stone dust, or other deleterious materials. Stone shall be graded and of uniform quality throughout. Round washed gravel will not be allowed.

Coarse aggregate shall consist of a well-graded mixture of commercial size crushed stone; No. 1, No. 2 and No.

CONCRETE: Concrete for sidewalks shall be made from Portland cement, fine aggregate, and coarse aggregate, conforming to specifications hereinbefore listed.

Concrete shall be mixed in the following proportions:

- 1 part Portland cement
- 2 parts fine aggregate
- 3 parts coarse aggregate

Concrete shall be mixed with clean water, free from mud, oils, grease, or other deleterious matter. The amount of water used per batch shall be the minimum amount necessary to produce a concrete of workable consistency and in general shall be 5 ½ gallons per sack of cement used. The amount of water used shall be such that in no batch shall the slump be less than 2” or more than 4”. Ready-mix concrete will have a minimum compressive strength of 5000 psi. Retempering or remixing of concrete, with or without additional cement, aggregates or water will not be permitted.

Concrete for Slip Form Curbing will consist of the same basic mix design of sidewalks except slump range will be from 1”-1.5”

COMPANY NAME: _____

F.O.B. Watertown, New York, Ready Mix Concrete as follows:

CONCRETE CLASS	DESCRIPTION	BID PRICE PER CUBIC YARD	
		WITH POZZOLANS	W/O POZZOLANS
A	CONCRETE FOR GENERAL PURPOSE STRUCTURAL	_____	_____
C	CONCRETE FOR PAVEMENT SLIPFORM PAVING	_____	_____
D	CONCRETE FOR THIN STRUCTURAL & PUMPING	_____	_____
E	CONCRETE FOR STRUCTURAL SLABS AND APPROACH SLABS	_____	_____
F	CONCRETE FOR HIGH EARLY PAVEMENT STRENGTH	_____	_____
G	CONCRETE FOR TREMIE	_____	_____
H	CONCRETE FOR PUMPING APPLICATIONS	_____	_____
HP	CONCRETE BRIDGE DECKS	_____	_____
I	CONCRETE FOR SLIP FORMING HIGHWAY MEDIAN BARRIERS	_____	_____
J	CONCRETE FOR SLIP FORMING STRUCTURAL MEDIAN BARRIERS	_____	_____
A mod	CONCRETE FOR INTERIOR SLABS	_____	_____
K	LOW DENSITY CELLULAR CONCRETE (LDCC)	_____	_____
L	CURB MIX / SIDEWALK MIX	_____	_____

FINE GROUTS PER NYSDOT STANDARD SPECIFICATIONS VOLUMETRIC MEASURE

1:1 GROUT	\$ _____	Cubic Yard
1:2 GROUT	\$ _____	Cubic Yard
1:3 GROUT (sand: cement)	\$ _____	Cubic Yard

Delivered to job site for _____ per cubic yard per mile over _____ miles from plant.

For heated concrete add _____ per cubic yard.

For super plasticizer add _____ per cubic yard.

For grace fiber mesh, or equal, add _____ per cubic yard.

For (non chloride based) accelerator add - see % below - per cubic yard.

1% _____ 2% _____ 3% _____ 4% _____

COMPANY NAME: _____

For Grace DCI additive, or equal add _____ per cubic yard.

For water reducer add _____ per cubic yard.

For anti washout admixture (Rheomac UW450), or equal, add _____ per cubic yard.

For additional type 1a stone add _____ per cubic yard.

For an additional 100 lbs. of concrete add _____ per cubic yard.

For Master Builders Rheocrete 222, or equal, add _____ per cubic yard.

For Retarder add - (see % below) - per cubic yard.

2% _____ 3% _____ 4% _____

**PART II
CONTROLLED DENSITY LOW STRENGTH MATERIAL (C.D.L.S.M.)**

DESCRIPTION

This material is intended to be used as a backfill around culvert and bridge structures that will flow into place due to its fluidity and consolidate without vibration or puddling action. This material shall have a twenty-eight (28) day strength in the range of Thirty (30) to One Hundred Fifty (150) psi as measured by compressive strength in cylinders as ordered by the County Engineer. It must be capable of excavation with power equipment at some time in the future. C.D.L.S.M. is to be delivered in ready mix concrete trucks and placed by chute in a flowable condition directly into the cavity to be filled or into a pump for final placement.

Grace durafill or equal to achieve C.D.L.S.M. specification will be accepted.

MATERIALS

C D L S M shall consist of Portland cement, fly ash, fine aggregate, and water in proportions that will yield the strength for the use specified.

The undersigned shall furnish C D L S M as described within at a price F.O.B. Watertown, New York as follows:

Price Per Cubic Yard \$ _____

Delivered to job site @ \$ _____ /cubic yard, per mile, over _____ miles from plant.

Delivery with a telescoping conveyor truck reaching 30' to 50' with
Additional cost per hour \$ _____ /HOUR

Attached Bid Checklist, Signature/Non Collusive Page, and Iran Notice must be signed to complete the bid.

BID CHECKLIST

The documents required to complete this bid are indicated below.

- (X) Insurance Certificates See Exhibit A, pages F-G
- (X) Iran Notice See Pages 18f – 18g

_____ We have reviewed and have submitted the items required under the Mandatory Submission Requirements.

_____ The Bid Page(s), Signature/Non-Collusive Page, and Iran Notice are completed and included.

_____ Deviations are noted and explained.

_____ Insurance Certificates are enclosed if required.

WAIVER OF IMMUNITY/NON-COLLUSIVE BIDDING CERTIFICATE PURSUANT TO SECTION 103-D OF THE NEW YORK STATE GENERAL MUNICIPAL LAW

- A. By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid, each party thereto certifies as to its own organizations, under penalty of perjury, that to the best of knowledge and belief:
1. The prices in this bid have been arrived at independently without collusion, consultation, communication, or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other bidder or with any competitor.
 2. Unless otherwise required by law, the prices which have been quoted in this bid have not knowingly been disclosed by the bidder and will not knowingly be disclosed by the bidder, directly or indirectly, prior to opening, to any bidder or to any competitor.
 3. No attempt has been made or will be made by the bidder to induce any other person, partnership or corporation to submit or not to submit a bid for the purpose of restricting competition.

A bid shall not be considered for award nor shall any award be made where 1,2, and 3 above have not been complied with; provided, however, that in any case the bidder cannot make to foregoing certification, the bidder shall so state and shall furnish with the bid a signed statement which sets forth in detail the reasons thereof. Where 1,2, and 3 above have not been complied with, the bid shall not be considered for any award nor shall any award be made unless the head of the Purchasing Unit to the political subdivision, public department, agency or official thereof to which the bid is made, or his designee, determines that such disclosure was not made for the purpose of restricting competition.

The fact that a bidder (a) has published price lists, rates, or tariffs covering items being procured, (b) has informed prospective customer of proposed or pending publications of new or revised price lists for such items, or (c) has sold the same items to other customers at the same prices being bid, does not constitute, without more, a disclosure within the meaning of paragraph "A" above.

- B. Any bid hereafter made to any political subdivision of the state or any public department, agency or official thereof by a corporate bidder for work or services performed or to be performed or goods sold or to be sold, where competitive bidding is required by statute, rule, regulation, local law, and where such bid contains the certification referred to in paragraph "A" of this section, shall be deemed to have been authorized by the Board of Directors of the bidder, and such authorization shall be deemed to include the submission of the bid and the inclusion therein of the certificate as to non-collusion as the act and deed of the corporation.

SIGNATURE PAGE ON REVERSE MUST BE SIGNED TO COMPLETE THE BID.

SIGNATURE PAGE

The undersigned proposes to furnish products or services to specifications included in this bid document, at the price(s) set forth, as required to meet the County's needs. Any deviation to the specifications must be noted on the bid form and fully explained or the deviations will not be considered part of the bid.

Deviations: Yes _____ No _____

By signing below I am certifying that I fully understand the complete requirements of the bid and agree to the non-collusive certification on the reverse of this page and additional documents as specified on the bid checklist. Bidder hereby acknowledges receipt of all addenda pertaining to this bid which are made part of the original bid specifications.

_____ COMPANY NAME

_____ ADDRESS (Principal Office)

_____ CITY, STATE, ZIP CODE

_____ AREA CODE/TELEPHONE NUMBER

_____ FAX NUMBER

_____ AUTHORIZED SIGNATURE

_____ PRINTED NAME

_____ TITLE

_____ DATE

_____ ADDRESS (Local Office)

_____ CITY, STATE, ZIP CODE

_____ AREA CODE/TELEPHONE NUMBER

_____ FAX NUMBER

_____ E-MAIL ADDRESS

Check One: Corporation _____ Partnership _____ Individual _____

Incorporated under the laws of the State of _____

Federal Identification # _____

State if authorized to do business in the State of New York: Yes _____ No _____

Names and Addresses of Partners:

Iranian Energy Sector Divestment

Contractor hereby represents that said Contractor is in compliance with New York State General Municipal Law Section 103-g entitled “Iranian Energy Sector Divestment”, in that said Contractor has not:

- a. Provided goods and services of \$20 Million or more in the energy sector of Iran including but not limited to the provision of oil or liquefied natural gas tankers or products used to construct or maintain pipelines used to transport oil or liquefied natural gas for the energy sector of Iran; or
- b. Acted as a financial institution and extended \$20 Million or more in credit to another person for forty-five days or more, if that person’s intent was to use the credit to provide goods or services in the energy sector in Iran.

Any Contractor who has undertaken any of the above and is identified on a list created pursuant to Section 165-a (3)(b) of the New York State Finance Law as a person engaging in investment activities in Iran, shall not be deemed a responsible Bidder pursuant to Section 103 of the New York State General Municipal Law.

Except as otherwise specifically provided herein, every Contractor submitting a bid in response to this Request for Bids must certify and affirm the following under penalties of perjury:

- a. “By submission of this bid, each Bidder and each person signing on behalf of any Bidder certifies, and in the case of a joint bid, each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief, that each Bidder is not on the list created pursuant to NYS Finance Law Section 165-a (3)(b).”

Jefferson County will accept this statement electronically in accordance with the provisions of Section 103 of the General Municipal Law.

Except as otherwise specifically provided herein, any Bid that is submitted without having complied with subdivision (a) above, shall not be considered for award. In any case where the Bidder cannot make the certification as set forth in subdivision (a) above, the Bidder shall so state and shall furnish with the bid a signed statement setting forth in detail the reasons therefore. The County reserves its rights, in accordance with General Municipal Law Section 103-g to award the Bid to any Bidder who cannot make certification, on a case-by-case basis under the following circumstances.

1. The investment activities in Iran were made before April 12, 2012, the investment activities in Iran have not been expanded or renewed after April 12, 2012, and the Bidder has adopted, publicized and is implementing a formal plan to cease the investment activities in Iran and to refrain from engaging in any new investments in Iran; or
2. The County of Jefferson has made a determination that the goods or services are necessary for the County to perform its functions and that, absent such an exemption, the County of Jefferson would be unable to obtain the goods or services for which the Bid is offered. Such a determination shall be made by the County in writing and shall be a public document.

Attachment
Certification Pursuant to Section 103-g
of the New York State
General Municipal Law

- A. By submission of this bid, each Bidder and each person signing on behalf of any Bidder certifies, and in the case of a joint bid, each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each Bidder is not on the list created pursuant to paragraph (b) of subdivision 3 of Section 165-a of the New York State Finance Law.
- B. A Bid shall not be considered for award, nor shall any award be made where the condition set forth in Paragraph A above has not been complied with; provided, however, that in any case the Bidder cannot make the foregoing certification set forth in Paragraph A above, the Bidder shall so state and shall furnish with the bid a signed statement which sets forth in detail the reasons therefore. Where Paragraph A above cannot be complied with, the Purchasing Unit to the political subdivision, public department, agency or official thereof to whom the bid is made, or his designee, may award a bid, on a case by case basis under the following circumstances:
1. The investment activities in Iran were made before April 12, 2012, the investment activities in Iran have not been expanded or renewed after April 12, 2012, and the Bidder has adopted, publicized and is implementing a formal plan to cease the investment activities in Iran and to refrain from engaging in any new investments in Iran; or
 2. The political subdivision makes a determination that the goods or services are necessary for the political subdivision to perform its functions and that, absent such an exemption, the political subdivision would be unable to obtain the goods and services for which the contract is offered. Such a determination shall be made in writing and shall be a public document.

Signature

Title

Date

Company Name