NOTICE TO BIDDERS

NOTICE IS HEREBY GIVEN the Town Clerk of the Town of Bedford will receive sealed bids for the furnishing of the following materials, supplies and equipment rental:

1A. Bituminous Concrete (Hot Asphaltic Mix.) Picked up by DPW at Plant
1B. Cold Patch, Three Varieties including: Conventional Bituminous Cold Patch, "Green" alternative patch, and UPM "Unique Paving Materials" High Performance Cold Patch. UPM (Unique Paving Materials Corp.) High Performance Cold Patch (or equivalent)
2. Crushed Stone (Blue/Grey Stone)
3. Crushed Stone (White Limestone)
4. Course Washed Dark Brown NYS specification Winter Sand
5. Course screened Dark Brown Winter Sand
6. Course Washed Long Island Sand
7. Crushed Washed Gravel
8. Run of Bank Gravel & Processed Run of Bank Gravel
9A. Item #4 Shoulder Stone (Blue/Grey)
9B. Item #4 Shoulder Limestone (White)
9C. Item #4 Re-processed
10. Guide Rail
11. Liquid Calcium Chloride with Corrosion Inhibitor
12. Liquid Magnesium Chloride with Corrosion Inhibitor
13. Liquid Envirobrine with Corrosion Inhibitor
14A. Potassium Chloride Flake Snow Melt in 50 lb bags
14B. Calcium Chloride Flake Snow Melt in 50 lb bags
15A. Reflectorized Yellow and White Epoxy Pavement Marking paint (applied by vendor)
15B. Cross Walk & Stop Bar painting using White Epoxy Marking paint (applied by vendor)
16A. Reflectorized Yellow & White Latex Pavement Marking paint (applied by vendor)
16B. Cross Walk & Stop Bar painting using Latex Marking paint (applied by vendor)
17. Thermoplastic Reflectorized Pavement Markings
18. White Acrylic Zone Marking Paint in 5-gallon pails.
19. Concrete, 4000 psi Delivered to Work Site, Poured in Place
20. Flowable Fill (aka K-Crete, Controlled Density Fill, Etc.) Delivered, Poured, Per Cubic Yard.
21A. Corrugated polyethylene drainage pipe 12" Diameter Dual Wall smooth inside per l.f.
21B. Corrugated polyethylene drainage pipe 12" Diameter connection collar
22A. Corrugated polyethylene drainage pipe 15" Diameter Dual Wall smooth inside per l.f..
22B. Corrugated polyethylene drainage pipe 15" Diameter collar
23A. Corrugated polyethylene drainage pipe 18" Diameter Dual Wall smooth inside per l.f..
23B. Corrugated polyethylene drainage pipe 18" Diameter collar

Bids will be received until 1:00pm, April 23, 2013 at the office of the Town Clerk, 321 Bedford Road, Bedford Hills, New York 10507, at which time they will be publicly opened and read aloud.

Specifications and proposal forms may be downloaded from the bottom of the Town's Department of Public Works website, which can be accessed under the Departments menu at www.bedfordny.info, from April 5, 2013 to April 23. 2013. Vendors that download the specifications are required to provide their company name, email address, phone number, and mailing address by email to highway@bedfordny.info in order to receive any bid addenda that may be issued.

Bid prices shall remain in effect for all orders placed for delivery on or before May 1, 2014.

The Town of Bedford reserves the right to accept any bid in whole or in part and to reject any or all bids, as considered to be in the best interests of the Town of Bedford.

No bidder may withdraw their bid within thirty (30) days after the date of the bid opening.

All bids must be enclosed in a sealed envelope plainly marked "Bids for Materials — April 23, 2013" on the outside of the envelope. Bids to be returned to the TOWN CLERK, 321 Bedford Road, Bedford Hills, New York 10507.

Dated: Bedford Hills, New York
April 5, 2013

TOWN BOARD
OF THE TOWN OF BEDFORD

By: Lisbeth Fumagalli
Town Clerk

GENERAL SPECIFICATIONS

All materials furnished shall conform to the itemized specifications attached hereto and to the applicable requirements of the Standard Specifications of the New York State Department of Transportation, dated January 3, 1978.

Materials shall be delivered in accordance with the itemized specifications on the order of the Public

Works Commissioner or designee, Town of Bedford, in quantities as ordered.

Unit prices bid shall be exclusive of any sales, excise or other taxes for delivery to a tax exempt Municipality. Tax exempt certificate number 136007284 covers Public Works Department purchases by the Town of Bedford.

The Town of Bedford reserves the right to purchase material from other vendors as awarded by the State of New York Office of General Services, without notice to the vendor awarded the Town bid.

Items 2 through 9c refer primarily to the pickup and delivery of crushed stone and gravel products to the Town of Bedford's storage site at Crusher Road. Vendors (including both trucking firms and quarries) providing these materials for use by the town are required to be able to provide at least 150 tons of material per 8 hour work day (i.e. Monday-Friday 7am – 300 pm – excluding town observed holidays) to the Crusher Road facility. Vendors are expected to begin delivery of these materials to the Crusher Road facility within one working day of the order being placed. In the event that the lowest bidder for above mentioned stone and gravel materials is unable deliver said materials (i.e. delivery of at least 150 tons of material within 1 working day of receipt of the order to the Crusher Road facilities), the next lowest bidder will be contacted to either supplement or entirely take on the order at the per ton price that they (i.e. the higher price) quoted. If the second lowest bidder is unable to provide these services, the third lowest bidder will be contacted, and so on.

All suppliers, submitting bids on items in non-conformance with the specifications or delivery time as stated, must submit them on a separate sheet of paper clearly stating the variance between their bid and the specifications. The bid will receive careful consideration if such deviations do not depart from the intent of this specification and are to the best interests of the Town of Bedford.

Additional information on any of the items as given in the detailed specifications may be secured from the office of the Commissioner of Public Works or designee.

Each bid must be signed by a person authorized to do so and each bid must include a certificate of non-collusion and waiver of immunity agreement, as required by law.

Bidders are not to separate the notice and specifications from the proposal form, but must return the same complete.

Separate bids will be awarded for each item as listed in the proposal.

The Commissioner of Public Works or designee reserves the right to reject any or all bids, to accept any bid or waive any informality in the proposal as deemed advisable in the best interest of the Town of Bedford.

Unless otherwise permitted by the Commissioner of Public Works, vendors awarded this contract are required to deliver sand and stone materials (i.e. items 2 through 9c. of this contract) to Town of Bedford DPW Facilities within 2 working days of an order being placed. The Commissioner of Public Works for the Town of Bedford reserves the right to obtain materials listed on items 2 through item 9c on the open market in the event that the lowest bidder is unable or unwilling to deliver these materials (or delivers materials of an unsatisfactory quality) to Bedford's Public Works Facilities within 2 working days specified above.

If deemed necessary, vendors awarded the contract for the delivery of sand and stone materials (items 2 through 9c) will be expected to provide the Commissioner of Public Works of up to four (4) references of the names, addresses, and phone numbers of suppliers and quarries they have work with in the past. Failure to produce the abovementioned references can result in the rejection of their bid.

ITEMIZED SPECIFICATIONS

1A. BITNUMINOUS CONCRETE (Picked up at plant by Bedford DPW trucks)

Furnishing plant mix bituminous concrete conforming to the material specifications of NYSDOT Section 403 as ordered.

Separate bid prices on a per ton basis, are to be submitted for:

a. Bituminous concrete loaded onto Town of Bedford trucks at the bidder's plant.

Bituminous concrete furnished shall be prepared in an approved plant located within 20 miles of the Town of Bedford. The plant must have been operated by the bidder at that location for a period of at least one (1) year prior to the date of bid.

The availability of materials due to plant location will be taken into account in awarding the contract.

Bids for bituminous concrete, FOB, are to specify the location of the bidder's plant and the mileage from the Town garage at 301 Adams Street, Bedford Hills.

The successful bidder may be required to furnish an acceptable surety bond guaranteeing the faithful performance of the contract.

1B. COLD PATCH

Separate bid prices on a per ton basis, are to be submitted for:

a. Bituminous cold patch palletized in bags not to exceed 50 lbs each delivered to the Town of Bedford Public Works facility at 301 Adams Street, Bedford Hills, NY or to the Public Works Satellite facility located on Crusher Road in Bedford Village. Delivery shall be within 3 days of order.

b. Bituminous cold patch, palletized in 50 lb. bags on pallets loaded onto Town of Bedford trucks at the bidder's plant.

c. Bituminous cold patch, loose bulk loaded onto Town of Bedford Trucks at the bidder's plant.

d. Cold Patch "Green" mix that uses Bio-Degradable and / or Recyclable Materials in its manufacture. Green cold patch palletized in bags not to exceed 50 lbs each delivered to the Town of Bedford Public Works facility at 301 Adams Street, Bedford Hills, NY or to the Public Works Satellite facility located on Crusher Road in Bedford Village. Delivery shall be within 3 days of order.

e. Cold Patch "Green" mix that uses Bio-Degradable and / or Recyclable Materials in its manufacture that is palletized in bags not to exceed 50 lbs each that is to be loaded onto Town of Bedford Trucks at the bidder's plant.

f. Cold Patch Bituminous high performance cold patch "UPM – Unique Paving Materials High Performance Cold Patch or equivalent. palletized in 50 lb. bags on pallets delivered to the Town of Bedford Public Works facility at 301 Adams Street, Bedford Hills, NY or to the Public Works Satellite facility located on Crusher Road in Bedford Village. Delivery shall be within 3 days of order.

g. Cold Patch Bituminous high performance cold patch "UPM – Unique Paving Materials High Performance Cold Patch or equivalent. palletized in 50 lb. bags on pallets loaded onto Town of Bedford trucks at the bidder's plant

Bulk bituminous cold patch furnished for pick up by the town shall be prepared in an approved plant located within 10 miles of the Town of Bedford. The plant must have been operated by the bidder at that location for a period of at least one (1) year prior to the date of bid.

The availability of materials due to plant location will be taken into account in awarding the contract.

Bids for bulk bituminous cold patch, FOB, are to specify the location of the bidder's plant and the mileage from the Town garage at 301 Adams Street, Bedford Hills.

PRE-PACKAGED COLD MIX PATCH: Pre-packaged cold patch mix in bags shall not to exceed 50 lbs weight per bag. The bags shall be stacked on a wood pallet or individually placed in a "super sack" for off load by forklift. The overall weight of each pallet /"super sack" of cold mix bags shall not to exceed 1000 lbs. Package Pavement All Weather Asphalt Mix as produced by Package Pavement, Co. Inc. Stormville, NY 12582 or equivalent as indicated in the specifications below.

BITUMIOUS COLD PATCH DESCRIPTION (as specified in Line Items 1B a, 1B b, and 1B c above.)

This material shall be a mixed pavement patching material capable of storage either in bags as delivered or loose in a stockpile if purchased in bulk form. Both bagged and bulk cold patch material shall be composed of mineral aggregates and bituminous materials. The mix for both bagged and bulk cold patch provided shall meet the requirements contained herein.

Material shall be provided in accordance with Section 302 - Bituminous Stabilized Course of the New York State Department of Transportation Standard Specifications of May 4, 2006 or any revision / addendum pertaining thereto.

Regardless of the material provided, it shall be uniform, workable, and have satisfactory setting properties at the time of delivery.

MATERIALS

a. Aggregates: Fine aggregate shall conform to Section 703-01, Fine Aggregate. Coarse aggregate shall conform to Section 703-02, Coarse Aggregate. Crushed stone, crushed gravel, or approved crushed slag may be used.

b. Mineral Filler: Mineral filler, if used, shall conform to the requirements outlined in Section 703-08.

c. Bituminous Materials. The bituminous material shall be an asphalt emulsion and shall conform to the requirements outlined in Section 702, Bituminous Materials. The producer may elect to use an alternate asphalt emulsion with or without the addition of modifying

agents. Any prior approval of the Town for the use of alternate asphalt emulsion shall be in writing. For any asphalt emulsion not listed in Section 702, Bituminous Materials, the producer shall provide complete specifications for the alternate asphalt emulsion to the Bedford Public Works Department.

COMPOSITION OF MIXTURES

The aggregate gradation and the bituminous material quantities shall conform to the requirements outlined in Table I.

If so required by the Commissioner of Public Works, a Job Mix Formula shall be submitted to the Town Bedford for review and approval. If deemed necessary by the Commissioner of Public Works, The following information shall be provided with the Job Mix Formula submission:

a. Aggregate gradation band and aggregate types.

b. Asphalt Emulsion - amount, type and complete specifications for any alternate asphalt emulsion not listed in Section 702, Bituminous Materials.

Minimum Specifications for Cold Patch Mix:

COMPOSITION OF BITUMINOUS PATCHING MATERIALS

GENERAL LIMITS AND JOB MIX FORMULA TOLERANCES:

Screen Size
Coarse Mix
% Passing Tolerance (1)
Intermediate Mix
% Passing Tolerance (1)
1” 100 - 100 -
½” 95-100 - 90-100 -
¼” 55-75 + 5 10-35 ± 6
1/8” 15-40 ± 6 0-5 ± 2
#80 0-5 ± 2
Bituminous
Material (2)
4.0-7.5
±0.4
5.5-8.0
±0.4

(1) All aggregate percentages are based on the total weight of the aggregate.

(2) Bituminous Material (asphalt residue) percentage is based on the total weight of the mix and shall include any additives.

PREPARATION OF MIXTURES

Preparation of the mixture shall conform to the specification requirements outlined in Section 302, Bituminous Stabilized Course. The moisture content requirement shall be waived and the producer shall determine the mix proportions as outlined previously in the Composition of Mixtures section of this specification.

“GREEN”COLD PATCH DESCRIPTION (as specified in Line Items 1B d, and 1B e above.)

This material shall be considered as an alternative to conventional bituminous cold patch. Cold patch shall meet the specifications as identified by Greenpatch, 120-30 28th Avenue Flushing, NY 11354 that state its materials are made with:

- Recycled materials: Product must use 40%-60% of recycled asphalt (sand & stone).
- Zero or reduced levels of petroleum in mix: Manufacturing process must ensure a 100% decrease of Petroleum derivative cut-backs over conventional Cold Mix Asphalt with Diesel.
- Manufacturer must ensure Eco-Friendly Packaging: Packaging manufactured using natural gas.
- Manufacturer must avoid Polyvinyl Chloride Packaging: Packaging is Biodegradable (i.e. paper bags or other biodegradable equivalent.)
- Manufacturer must ensure energy conservation in manufacturing: i.e. there should be at least 70% decrease in fuel (Diesel) consumption in production of materials.
- Manufacture must ensure Resource Conservation in Manufacturing: 40% - 60% decrease for Virgin Sand & Stone.
- Product must ensure Eco-Friendly Additives are utilized in manufacture: Biodegradable substitute additives are non-ozone depleting and from a renewable source.
- Manufacturer must ensure to "Green" Purchasing principles: i.e. the product must utilize recycled sand and stone diverted from landfills. Bio-degradable cutback from a renewable source that facilitates the removal of harmful additives like Diesel, Kerosene, Naphthalene, etc.

HIGH PERFORMANCE COLD PATCH (as specified in Line Items 1B f, and 1B g above.)

Cold Patch Bituminous high performance cold patch "UPM – Unique Paving Materials High Performance Cold Patch or equivalent This material shall be considered as an alternative to conventional bituminous cold patch. Cold patch shall meet the specifications as identified by Unique Paving Materials 3993 E. 93rd Street ı Cleveland, OH 44105 Product entitled: UPM High Performance ColdMix Product Specification Sheet 1 and 2 which are available to be reviewed online at: http://www.uniquepavingmaterials.com/Cold-Mix-Product-Specification.

2. CRUSHED WASHED BLUE/GRAY STONE

Crushed washed blue/gray stone conforming to NYSDOT Material Specification 703-02, in the following size designations as listed in table 703-4 of the NYSDOT Standard Specifications:

2	(3/4")
3A	(1 1/4")
3	(1 1/2")
4	(3 1/2"-)
620-02	Fine Stone Fill(4" + or -)
620-03	Lite Stone Fill (10" + or -)
620-04	Medium Stone(18" + or -)

Separate bid prices on a per ton basis are to be submitted for Crushed Blue/Gray Stone delivered to any point in the Town of Bedford in truckload lots. Delivery shall be within 3 days of order.

NOTE: A certified weigh master's certificate on an accepted scale at the source will be required for each truckload delivered.

3. CRUSHED WHITE LIMESTONE

Crushed white limestone conforming to NYSDOT Material Specification 703-02, in the following size designations as listed in table 703-4 of the NYSDOT Standard Specifications:

2	(3/4")
3A	(1 1/4")
3	(1 1/2")
4	(3 1/2"-)
620-02	Fine Stone Fill(4" + or -)
620-03	Lite Stone Fill (10" + or -)
620-04	Medium Stone Fill (18" + or-)

Separate bid prices on a per TON basis are to be submitted for Crushed White Limestone delivered to any point in the Town of Bedford in truckload lots. Delivery shall be within 3 days or order.

NOTE: A certified weigh master's certificate on an accepted scale at the source will be required for each truckload delivered.

4. COURSE WASHED DARK BROWN NYS SPECIFICATION WINTER SAND

Clean, washed course, native sand consisting of clean sharp particles excavated from a gravel bank (NOT FROM LONG ISLAND) suitable for use as an abrasive in winter sanding operations, conforming to NYSDOT item 703.07.

5. COURSE SCREENED DARK BROWN WINTER SAND

Screened course winter sand consisting of clean sharp particles with a maximum of 15% passing through a #100 mesh sieve. Sand shall be excavated from a gravel bank (NOT FROM LONG ISLAND) suitable for use as an abrasive in Winter sanding operations.

6. COURSE WASHED LONG ISLAND SAND

Shall be course, cleaned and washed sand with a maximum of 15% passing through a #100 mesh sieve. Sand shall be suitable for use as an abrasive in winter sanding operations.

For all sand items, separate bids prices, on a per ton basis, are to be furnished for: sand delivered to stockpile at any point in the Town of Bedford, in truckload lots, as ordered. Delivery to be made within 72 hours of receipt of telephone order. Bidder must be able to deliver 400 tons per day if so required.

BIDS must state the quarry source of the sand to be furnished.

A letter guaranteeing availability of 5000 tons of sand during the bid period must he furnished by the bidder from the source of supply or request a sand sample. The name and address of the source of sand must be included in the letter. The Town of Bedford reserves the right to visit the sand source of supply before bids are awarded. The availability of sand due to plant or quarry location will be taken into account in awarding the contract.

NOTE: A certified weigh master's certificate on an accepted scale at the source will be required for each truckload delivered.

7. CRUSHED WASHED GRAVEL

To be bid on a per **TON** basis, delivered to the Town of Bedford. Consisting of clean, sharp, durable fragments of stone of uniform quality, thoroughly washed, clean and graded, with a minimum of 75% fractured particles, in the following gradations:

	Sieve Size	**% Passing**
3/8" Size	1/2"	100
	1/4 "	90 – 100
	1/8"	0 – 15
3/4" Size	1 1/2"	100
	1"	88 – 92
	3 / 4 "	60 – 64
	3 / 8 "	10 – 22
	#4	0 -2

NOTE: A certified weight master's certificate on an accepted scale at the source will be required for each truckload delivered.

For the following gravel items, separate bid prices, on a per C.Y. basis, are to be furnished for delivery to the Town of Bedford.

8A. RUN OF BANK GRAVEL
Run of Bank Gravel suitable for sub base material of roadbed or parking lot with maximum acceptable stone size of 6".

8B. PROCESSED RUN OF BANK GRAVEL
Conforming to NYSDOT Specification 304-02 with maximum size stone of 1".

For the following items, separate bid prices, on a per TON basis, are to be furnished for delivery to the Town of Bedford.

All bidders must specify source location of Item #4 with their bid. Failure to do so will be considered a deviation from specifications.

9A. COMMERCIAL ITEM #4 SHOULDER STONE -3/4" BLUE/GRAY
Conforming to NYSDOT Specifications with maximum stone size of 1".

9B. COMMERCIAL ITEM #4 SHOULDER STONE -3/4" WHITE LIMESTONE
Conforming to NYSDOT Specifications with maximum stone size of 1".

9C. COMMERCIAL ITEM #4 REPROCESSED – ¾" made from recycled bituminous asphalt, stone, concrete, and brick.

NOTE: A certified weight master's certificate on an accepted scale at the source will be required for each truckload delivered.

10. GUIDE RAIL

Guide Rail Installation

- Corrugated box beam and guide rail materials meeting Galvanized Specifications.
- Corrugated box beam and guide rail materials meeting Mayari Specifications.
- Cable guide rail meeting NYSDOT Specifications.

All Guide Rail bidders must be able to furnish complete layout and design.

Guide Rail bidders must be able to furnish all materials and maintain sufficient stock so that guide rail materials will be delivered within 5 days after receipt of order. All materials to conform to NYSDOT Specifications Section 606 and Standard Sheet 606.6 12 gauge and 606-3R1 12 gauge.

Installation of Guide Rail, Posts, and Anchors must be done as per New York State Specifications.

Guide Rail bidders must include a $5000 bid bond to guarantee delivery of material and performance of work.

11. LIQUID CALCIUM CHLORIDE WITH CORROSION INHIBITOR, Non-Corrosive "Co guard"

a. Liquid Calcium Chloride (32% solution) with Corrosion Inhibitor which shall contain the following:

Calcium Chloride 32% + or - 1%
Alkali Chloride (as Nail) 2% Maximum
Magnesium (as Mg) 0.01% Maximum

The bidder shall have employees experienced in the winter use of Liquid Calcium Chloride and the assembly, operation and maintenance of application equipment.

The bidder shall have distribution trucks equipped with pumps and hand hoses for the unloading and spraying of Liquid CaCL as required by the Town of Bedford.

The bidder shall have all necessary equipment for the installation and maintenance of a salt-abrasives wetting facility and, in the event of a breakdown, shall have replacement parts in stock and shall repair and return the unit to service within 24 hrs.

The bidder shall include with the bid a letter from the manufacturer certifying to the Town of Bedford the bidder is an authorized distributor, and that Liquid CaCL shall be available in sufficient quantity to meet bid requirements for the bid period specified.

The bidder shall have storage facilities within a 60 mile radius of the Town of Bedford to assure service during severe weather conditions.

Delivery shall be in truckload lots of 1000 gallons or more and shall be made within 24 hrs of request for delivery.
Each delivery truck or distributor shall be equipped with an approved liquid meter to accurately

determine amounts delivered.

The 32% Liquid CaCL with Corrosion Inhibitor shall be provided by the manufacturer in a true solution and shall not be reconstituted from flake Calcium Chloride.

The bidder shall provide upon request, the names and telephone numbers of three accounts similar to the Town of Bedford to be used as references as to the dependability and proficiency of the bidder.

b. Liquid Calcium Chloride (34% solution) with Corrosion Inhibitor which shall contain the following:

Calcium Chloride 34% + or - 1%
Alkali Chloride (as NaCL) 2% Maximum
Magnesium (as Mg) 0.01% Maximum

The bid price shall include delivery and application of Liquid Calcium Chloride with Corrosion Inhibitor to any site in the Town of Bedford.

The bidder shall have employees experienced in the application procedures, application rates, and judgment of the site conditions.

The bidder shall have distribution trucks with variable width spray bars equipped with nozzles providing overlapping spray pattern and developing a minimum pressure of 70lbs psi at the spray bar.

The bidder shall include with the bid a letter from the manufacturer certifying to the Town of Bedford the bidder is an authorized distributor and that Liquid Calcium Chloride with Corrosion Inhibitor will be available in sufficient quantity to meet bid requirements for the bid period as specified.

The bidder shall provide, upon request, the names and telephone numbers of three accounts similar to the Town of Bedford to be used as references as to the dependability and proficiency of the bidder.

Each delivery truck or distributor shall be equipped with an approved liquid meter to accurately determine amounts delivered.

11C. CALCIUM CHLORIDE TRUCK MOUNTED SPRAY UNITS - Single Tank - as manufactured by James Reed Sales, Inc.

11D. CALCIUM CHLORIDE TRUCK MOUNTED SPRAY UNITS - Double Tank

RESERVOIR TANK: The truck mounted reservoir tanks shall be of 70 gallon or greater capacity and be designed to fit in the triangular space on the side of a sand spreader and shall not protrude past a point that would interfere with mounting in a dump body.
The tank shall be constructed of cross-linked plastic, 1/4” or greater thickness, capable of holding 16 lb/gal. liquid, resistant to the effects of liquid calcium chloride, and capable of withstanding the abrasion of sand and salt during spreading operations.

PUMP SHELTER BOX: The pump shelter box shall be constructed of cross linked plastic and shall serve the purpose of keeping the pump, filter, and pressure switch protected from moisture and the corrosive environment of spreading operations.

The pump shelter box cover shall have stainless steel hinges.

The shelter box shall include all necessary mounting brackets for pump and pressure switch.

PUMP: The pump shall be a diaphragm type, resistant to the effects of liquid calcium chloride and powered by the 12-volt system of the vehicle on which it is mounted.

The pump shall be capable of developing 50lbs pressure and producing a minimum open flow rate of 2.5 gpm.

SPRAY BAR & FITTINGS & VALVES: The spray bar shall be totally constructed of brass and have the necessary nozzles for the proper application of liquid calcium chloride to melting mixtures.

All connecting fittings and valves shall be constructed of brass.

CONTROL PANEL: The control panel shall be able to be mounted in the cab of a truck and shall consist of an On/Off switch, pump operating light, and a low-pressure indicator light.

LOW PRESSURE SWITCH & FILTER: Mounted in the pump shelter box with the pump shall be a low pressure switch to activate low pressure light on control panel to warn the operator when the pressure fails below 3-5 psi.

MISCELLANEOUS: The unit shall be complete with all hoses, wiring, mounting brackets and clamps for the operational installation on a sander body.

Detailed instructions with illustrations shall be provided to facilitate installation by others.

GUARANTEE: The unit shall be guaranteed against defects or improper workmanship for a period of 30 days from installation.

11E. INSTALLATION OF TRUCK MOUNTED SPRAY UNITS

The bidder shall provide all the labor and equipment necessary for mounting liquid calcium chloride spray units as described in items 11C and 11D.

The bidder shall have personnel trained in the mounting procedures and shall maintain a properly equipped shop at which the work shall be performed.

The unit shall be tested prior to returning to owner.

12. LIQUID MAGNESIUM CHLORIDE WITH CORROSION INHIBITOR – Non-Corrosive "Ice-Stop CL"

a. Liquid Magnesium Chloride (25% solution) with Corrosion Inhibitor , which shall contain the following:

Magnesium Chloride	26%+ or -1%S
Sulfate	2% Maximum
Sodium	.5% Maximum
Potassium	.4% Maximum
Iron	6 ppm
Corrosion Inhibitor	1000 ppm
Specific Gravity	1.250
Bulk Density	10.5 lbs/gallon

Optimum Eutectic temperature shall meet or exceed -30°F

Product will be of superior quality, stay in suspension without agitation and not demonstrate a propensity to precipitate out solids

Product shall not create an exothermic reaction thereby causing concrete surfaces and structures to spall and deteriorate

The bidder shall have employees experienced in the winter use of Liquid Magnesium Chloride with corrosion inhibitor

The bidder shall have distribution trucks equipped with pumps and hand hoses for the unloading and spraying of Liquid MgCL as required by the Town of Bedford.

The bidder shall include with the bid a letter from the manufacturer certifying to the Town of Bedford the bidder is an authorized distributor, and that Liquid MgCL with corrosion inhibitor shall be available in sufficient, quantity to meet bid requirements for the bid period specified. The bidder shall have storage facilities within a 60 mile radius of the Town of Bedford to assure service during severe weather conditions.

Delivery shall be in truck load lots of 1000 gallons or more and shall be made within 24 hrs of request for delivery.

Each delivery truck or distributor shall be equipped with an approved liquid meter to accurately determine amounts delivered.

The 25% Liquid MgCL with Corrosion Inhibitor shall be provided by the manufacturer in a true solution and shall not be reconstituted from flake Magnesium Chloride.

The bidder shall provide upon request, the names and telephone numbers of three accounts similar to the Town of Bedford to be used as references as to the dependability and proficiency of the bidder.

The bidder shall have distribution trucks with variable width spray bars equipped with nozzles providing overlapping spray pattern and developing a minimum pressure of 70 lbs psi at the spray bar.

13. DETAILED SPECIFICATION LIQUID ENVIROBRINE with Corrosion Inhibitor LIQUID MELTING AGENT AND SOIL STABILIZER

The purpose of this specification is to describe a brine solution to be used as:

A liquid melting agent to pre-wet granular sodium chloride or mixes of sodium chloride and abrasives used for de-icing of highways during winter maintenance operations.

A liquid melting agent to be applied directly to the pavement as an anti-icing application

A brine solution applied to gravel roads used as a soil stabilizer and dust palliative.

The brine solution shall be a naturally occurring product and not manufactured by a chemical process.

Liquid Envirobrine (35% solution strength by volume) with Corrosion Inhibitor, which shall contain the following:

Calcium Chloride	57% Minimum
Sodium Chloride	40% Minimum
Potassium/Magnesium Chloride	3% Minimum

Specification tolerance to be + or -1%

WINTER HIGHWAY MAINTENACE OPERATIONS

The brine solution shall be delivered within 24 hrs of notification by members of the Town of Bedford. The trucks delivering the brine solution shall be equipped with a meter that accurately totalizes the gallons delivered. The meter shall be equipped with a ticket printer that automatically prints a ticket with the accurate amount of gallons delivered to the site.

The trucks shall be equipped with pumps capable of delivering a minimum of 150 gpm to a storage tank.

The trucks shall be equipped with the required hoses, valves and fittings to connect to and deliver the brine solution to the storage tank(s) at the designated sites.

The trucks shall be equipped with a pump, hoses, valves and fittings to connect to a storage tank and remove the brine solution from the tank

Corrosion Inhibition: If selected, a corrosion inhibitor shall be blended with the brine solution. The corrosion inhibitor used when mixed with the brine solution shall meet the requirements of the Pacific Northwest Snow fighter's specification (PNS). Further, the corrosion inhibitor used shall meet the requirements of the New York City Department of Environmental Protection for use in reservoir areas Specifically, based on a 1% solution, phosphate parts per million shall be less than 2. The corrosion inhibition rating according to PNS standards shall be less than 30%. (Based on a 1% sodium chloride solution rating of 100%.) Test data from a certified independent testing lab shall be provided to document conformance to the specification.

The bidder shall provide upon request, the names and telephone numbers of three accounts similar to the Town of Bedford to be used as references as to the dependability and proficiency of the bidder.

The bidder shall have distribution trucks with variable width spray bars equipped with nozzles providing overlapping spray pattern and developing a minimum pressure of 70 lbs psi at the spray bar.

The brine solution by itself shall remain a true solution, without settlement that affects the handling of

the product at temperatures down to -10°F. When the corrosion inhibitor is added to the brine solution, periodic re-circulation may be required to keep the fiber solids in the organic corrosion inhibitor in suspension. At no time (at all ambient temperatures in the locale) shall settlement in the brine solution affect the pumping of the brine into mobile storage systems or affect the spraying of the brine on the granular material being spread on the road. In the event that problems are caused by sediment in the brine solution the supplier shall remove the product from the tanks at no cost to the purchaser and replace the removed volume with material that meets the specification within 48 hrs of notification. In the event that unsatisfactory material is delivered and the required service is not provided, the bid shall be cancelled. Conforming material will be purchased from other suppliers and the supplier of the unsatisfactory material shall be charged the differential in the price of the product and the cost of removing the non-conforming material.

SOIL STABILIZATION OR DUST CONTROL APPLICATION

The truck applying the brine shall be equipped with a pump capable of applying brine at the rate of 180 gpm to the road surface. The truck applying the brine solution shall be equipped with a ground speed oriented control system that reads the speed of the vehicle and applies brine solution to the road at application rates ranging from 0.1 to 0.5 gallons per square yard. The selection of application rates shall be made on a control console in the cab of the vehicle. The width of application shall be variable from 6' to 12'. A meter with a remote ticket printer shall accurately accumulate the gallons applied and print a ticket showing gallons. The truck shall have a spray bar equipped with fan spray nozzles with an overlapping pattern to evenly apply the brine to the road. The truck shall be equipped with a hand hose for treatment of intersections or other areas as required.

A bid shall also be submitted for 35% brine solution with corrosion inhibitor and an organic surface-binding agent. The inhibitor and binding agent shall meet the requirements of Pacific Northwest Snow fighter's specification and also be approved for use in reservoir areas by the New York City Department of Environmental Conservation.

The timing of the application of the brine solution shall be coordinated with the members of the Town of Bedford so that the brine is applied efficiently after the road surface has been prepared.

<u>GENERAL REQUIREMENTS :</u> The bidder shall have full service facilities within 75 miles of the Town of Bedford. These facilities shall include permanent brine storage capability exceeding 100,000 gallons. These facilities shall include a permanent maintenance and service facility and trucks equipped in accordance with the specification.

14A. POTASSIUM CHLORIDE FLAKE SNOW MELT IN 50 LB BAGS

The product shall consist of flaked potassium chloride to be used to melt snow on sidewalks in sealed 50 lb bags.

Potassium Chloride Flakes shall be delivered to The Town of Bedford in 50 lb sealed plastic bags. Product will be of superior quality.

Minimum quantities of delivery shall be a pallet of Forty (40) 50 lb bags and shall be made within 5 working days of request for delivery.

Potassium Chloride shall be available in sufficient quantity to meet bid requirements for the bid period specified.

14B. CALCIUM CHLORIDE FLAKE SNOW MELT IN 50 LB BAGS

The product shall consist of flaked calcium chloride to be used to melt snow on sidewalks in sealed 50 lb bags (77% test CaCL2.)

Calcium Chloride Flakes shall be delivered to The Town of Bedford in 50 lb sealed plastic bags. Product will be of superior quality.

Minimum quantities of delivery shall be a pallet of Forty (40) 50 lb bags and shall be made within 5 working days of request for delivery.

Calcium Chloride shall be available in sufficient quantity to meet bid requirements for the bid period specified.

15A. REFLECTORIZED YELLOW & WHTE EPOXY PAVEMENT MARKING PAINT

Paint shall meet all NYSDOT specifications as set forth in Specification Reference: SPEC-359 dated December 4, 1989.

Paint shall be specifically designed for use as a traffic marking paint. The paint shall be Epoxy Solvent Based, Quick drying, Low VOC for Westchester County, NY. Applied at 15 mils, 300 1f per gallon per 4" strip, drying time 10 minutes or less. Glass spheres should be applied at a rate of 6lbs per gallon. All paint materials shall meet VOC requirements for New York State. Application air temperature shall be 50° and rising.

GENERAL: Paint shall be applied with atomizing spray type machine. Applied marking shall have a clean-cut edge, true and smooth alignment and a uniform thickness of 15 mils + or -1 mil. Any obvious detours from a smooth flow of the lines during application as determined by the Town of Bedford or its representative shall be removed and repainted by the contractor at his own expense. Glass spheres shall be applied uniformly over and into the wet paint film at a rate of 6lbs per gallon of paint. Bid price shall include the cost of all labor, materials and equipment required to PERFORM the work to the approval of the Town of Bedford. Paint shall be applied by a truck mounted spray machine (no walk type machine shall be acceptable for Long Line Work.) Paint shall be applied at the specified rate of application. Truck cab must accommodate two persons, so as to allow driver of mobile paint truck plus Town of Bedford employee to sit in cab of truck to direct driver as to application of paint onto Town of Bedford roads.

EQUIPMENT: Shall paint a straight and true line. Shall be able to paint a minimum of 20.0 miles per day of double center lane line. Shall be able to apply all road patterns.

Driver of Mobile Paint Truck shall have a minimum of 3 years experience. Operator shall have a minimum of 2 years experience.

15B. CROSS WALK AND STOP BAR MARKINGS USING REFLECTORIZED WHITE EPOXY PAVEMENT MARKING PAINT

Paint shall meet all NYSDOT specifications as set forth in Specification Reference: SPEC-359 dated December 4, 1989.

Paint shall be specifically designed for use as a traffic marking paint. The paint shall be Epoxy

Solvent Based, Quick drying, Low VOC for Westchester County, NY. Applied at 15 mils, 300 1f per gallon per 4" strip, drying time 10 minutes or less. Glass spheres should be applied at a rate of 6lbs per gallon. All paint materials shall meet VOC requirements for New York State. Application air temperature shall be 50° and rising.

GENERAL: Paint shall be applied with atomizing spray type machine. Applied marking shall have a clean-cut edge, true and smooth alignment and a uniform thickness of 15 mils + or -1 mil. Any obvious detours from a smooth flow of the lines during application as determined by the Town of Bedford or its representative shall be removed and repainted by the contractor at his own expense. Glass spheres shall be applied uniformly over and into the wet paint film at a rate of 6lbs per gallon of paint. Bid price shall include the cost of all labor, materials and equipment required (including transport of equipment) to perform the work to the approval of the Town of Bedford. Paint shall be applied by a mechanical spray machine. Paint shall be specifically made for pavement markings and applied at the specified rate of application (i.e. in conformance with industry standards and manufacturer recommendations.) Crosswalk and Stop Bar markings shall be a minimum of 12" wide and as wide as 18" (prices shall be given for each.) A separate price shall be listed for traffic control personnel to accompany the spray team. The Town of Bedford reserves the right to employ its own traffic control personnel for this purpose if it is determined by the Commissioner of Public Works to be in the best interests of the Town.
EQUIPMENT: Shall paint a straight and true line.

The operator of the mechanical spray machine shall have a minimum of 3 years experience.

16A. REFLECTORIZED YELLOW & WHITE LATEX PAVEMENT MARKING PAINT

Paint shall meet all NYSDOT specifications as set forth in Specification Reference: SPEC-359 dated December 4, 1989.

Paint shall be specifically designed for use as a traffic marking paint. The paint shall be Latex Solvent Based, Quick drying, Low VOC for Westchester County, NY. Applied at 15 mils, 300 1f per gallon per 4" strip, drying time 10 minutes or less. Glass spheres should be applied at a rate of 6lbs per gallon. All paint materials shall meet VOC requirements for New York State. Application air temperature shall be 50° and rising.

GENERAL: Paint shall be applied with atomizing spray type machine. Applied marking shall have a clean-cut edge, true and smooth alignment and a uniform thickness of 15 mils + or -1 mil. Any obvious detours from a smooth flow of the lines during application as determined by the Town of Bedford or its representative shall be removed and repainted by the contractor at his own expense. Glass spheres shall be applied uniformly over and into the wet paint film at a rate of 6lbs per gallon of paint. Bid price shall include the cost of all labor, materials and equipment required to PERFORM the work to the approval of the Town of Bedford. Paint shall be applied by a truck mounted spray machine, no walk type machine shall be acceptable for Long Line Work. Paint shall be applied at the specified rate of application. Truck cab must accommodate two persons, so as to allow driver of mobile paint truck plus Town of Bedford employee to sit in cab of truck to direct driver as to application of paint onto Town of Bedford roads.

EQUIPMENT : Shall paint a straight and true line. Shall be able to paint a minimum of 20.0 miles per day of double center lane line. Shall be able to apply all road patterns.

Driver of Mobile Paint Truck shall have a minimum of 3 years experience. Operator shall have a minimum of 2 years experience.

16B. CROSS WALK AND STOP BAR MARKINGS USING REFLECTORIZEDWHITE LATEX PAVEMENT MARKING PAINT

Paint shall be specifically designed for use as a traffic marking paint. The paint shall be Latex Solvent Based, Quick drying, Low VOC for Westchester County, NY. Applied at 15 mils, 300 1f per gallon per 4" strip, drying time 10 minutes or less. Glass spheres should be applied at a rate of 6lbs per gallon. All paint materials shall meet VOC requirements for New York State. Application air temperature shall be 50° and rising.

GENERAL: Paint shall be applied with atomizing spray type machine. Applied marking shall have a clean-cut edge, true and smooth alignment and a uniform thickness of 15 mils + or -1 mil. Any obvious detours from a smooth flow of the lines during application as determined by the Town of Bedford or its representative shall be removed and repainted by the contractor at his own expense. Glass spheres shall be applied uniformly over and into the wet paint film at a rate of 6lbs per gallon of paint. Bid price shall include the cost of all labor, materials and equipment required to perform the work (including transport of equipment) to the approval of the Town of Bedford. Paint shall be applied by a mechanized spray machine designed for this purpose. Paint shall be applied at the specified rate of application recommended by NYSDOT and manufacturer. Crosswalk and Stop Bar Markings shall be a minimum of 12" wide and as wide as 18" (prices shall be given for each.) A separate price shall be listed for traffic control personnel to accompany the spray team. The Town of Bedford reserves the right to employ its own traffic control personnel for this purpose if it is determined by the Commissioner of Public Works to be in the best interests of the Town.

EQUIPMENT : Shall paint a straight and true line. The operator of the Paint machine shall have a minimum of 3 years experience. The

17. THERMOPLASTIC PAVEMENT MARKING SPECIFICATIONS

Thermoplastic shall meet NYSDOT specifications section 687.

DESCRIPTION: Under this work the Contractor shall furnish and apply thermoplastic reflectorized pavement marking at the locations as directed by the Bedford Public Works Commissioner or designee, and in accordance with these specifications.

MATERIALS: Shall conform to the requirements of #727-01.01 White and Yellow Thermoplastic Reflectorized Pavement Marking.

CONSTRUCTION DETAILS: Unless otherwise approved by the Bedford Public Works Commissioner or designee, mobile application equipment will be used for longitudinal lines. Longitudinal pavement marking lines are Broken Lines (skip line), Edge Lines, Barrier Lines, and Solid Lines as defined by the M.U.T.C. D. Portable application equipment will be acceptable for placing all other markings.

Thermoplastic material shall be applied to the pavement surface by the extrusion method.

Width of Striping Lines: 4" wide - Edge Lines and each line in Double Yellow Center Line.

M/P of Traffic will be the responsibility of the Town of Bedford.

Payment for all items will be as specified on the bid sheet.

For heating the thermoplastic composition, the application equipment shall include melting kettle(s) of such capacity as to allow for continuous marking operations. The melting kettle(s) may be mounted on a separate "supply" vehicle or included as part of the mobile application equipment. The kettle(s) shall be capable of heating the thermoplastic composition temperatures greater than 400° F. The heating mechanism shall be by means of thermostatically controlled heat transfer medium. Heating of the composition by direct flame shall not be allowed. Material temperature gauges shall be visible at both ends of the kettle(s).

Application equipment shall be constructed to provide continuous mixing and agitation of the material. Conveying parts of the equipment between the main material reservoir and the extrusion shoe(s) shall be so constructed as to prevent accumulation and clogging. All parts of the equipment which come into contact with the abovementioned material shall be so constructed as to be easily accessible and exposable for cleaning and maintenance. The equipment shall be constructed so that all mixing and conveying parts up to and including the extrusion shoe(s), maintain the material at the required plastic temperature.

The application equipment shall be so constructed as to insure continuous uniformity in the dimensions of the stripe. The applicator shall provide a means for cleanly cutting off stripe ends squarely and shall provide a method of applying "skip" lines. The equipment shall be capable of applying varying widths of traffic markings.

The applicator shall be equipped with a drop-on type bead dispenser capable of uniformly dispensing reflective glass spheres at controlled rates of flow.

The bead dispenser shall be automatically operated in such a manner that it will only dispense beads while the composition is being applied.

Application equipment shall be mobile and maneuverable to the extent that straight lines can be followed and normal curves can be made in a true arc.

Applicators shall be equipped and constructed in such a manner as to satisfy the requirements of the National Board of Fire Underwriters and the appropriate agencies of the State of New York.

The equipment used for the placement of thermoplastic pavement markings shall be either of two general types: mobile applicator and portable applicator.

687-3.02 Mobile Application Equipment

The mobile applicator shall be defined as a truck mounted, self-contained pavement marking machine that is capable of hot applying thermoplastic by the extrusion method. The unit shall be equipped to apply the thermoplastic material at temperatures exceeding 400°F and at the widths and thickness specified herein. The mobile unit shall be capable of operating continuously and of installing a minimum of 20,000 linear feet of longitudinal markings in an 8-hour day.

The mobile unit shall be equipped with a melting kettle(s) or materials storage reservoir(s) of such capacity as to allow for continuous marking operations. The kettle(s) or reservoirs shall be capable of heating or holding the thermoplastic composition at temperatures greater than 400° F.

The mobile unit shall be equipped with an extrusion shoe(s), and shall be capable of marking edge line and centerline stripes. The extrusion(s) shall be closed, heat jacketed or suitably insulated unit; shall hold the molten thermoplastic at a temperature greater than 400° F; and shall be capable of extruding a line of from 3 to 8 inches in width; and a thickness of not less than 1/8" nor more than 3/16" and of generally uniform cross section. Material temperature gauges shall be affixed or incorporated in the extrusion shoe in such a manner as to be visible, and capable of monitoring the composition temperature throughout the marking operation.

The mobile unit shall be equipped with an electronic and programmable line pattern control system, or mechanical control system, so as to be capable of applying skip or solid lines in any sequence and through any extrusion shoe in any cycle length.

687-3.03 Portable Application Equipment

The portable applicator shall be defined as hand operated equipment, specifically designed for placing thermoplastic installations such as crosswalks; stop bars; legends; arrows; and short lengths of lane, edge and centerlines. The portable applicator shall be capable of applying thermoplastic pavement markings by the extrusion method. It is intended that the portable applicator will be loaded with hot thermoplastic composition from the melting kettle(s). The portable applicator shall be equipped with all the necessary components, including materials storage reservoir, bead dispenser, extrusion shoe, and heating accessories, so as to be capable of holding the molten thermoplastic at a temperature greater than 400°F, of extruding a line from 3 to 8 inches in width, and in a thickness of not less than 1/8" nor more than 3/16", and of generally uniform cross –section. Material temperature gauges shall be affixed or mounted near the extrusion shoe in such a manner as to be visible, and capable of monitoring the composition temperature.

The application of pavement markings shall be done in the general direction of traffic. Striping against the direction of traffic flow shall not be allowed.

The Contractor shall be responsible for removing, to the satisfaction of the Engineer, tracking marks, spilled thermoplastic or thermoplastic applied in unauthorized areas.

When necessary, the Contractor shall establish marking line points at twenty-five (25) foot intervals throughout the length of the pavement as directed by the Engineer.

687-3.05 Atmospheric Conditions

Thermoplastic pavement markings shall be placed upon dry pavement surfaces. At the time of installation the pavement surface temperature shall be a minimum of 55° F and the ambient temperature shall be a minimum of 49° F and rising. The Engineer will determine when atmospheric conditions are such as to produce satisfactory results (Note 2).

Note 2. To comply with the 55° F pavement surface temperature requirement it will benefit the Contractor to schedule striping work for seasons of warm weather when possible. In cooler

conditions, striping operations maybe coordinated with bituminous paving work to take advantage of residual heat, providing that the ambient temperature requirements of subsection 687-3.05 are still met.

687-3.06 Materials application Requirements

A. Thermoplastic Composition

1. Application Temperature – thermoplastic composition shall be applied at temperatures no lower than 400° F at the point of deposition. For purposes of these specifications, the point of deposition shall be defined as within the extrusion shoe.
2. Extruded Markings – all extruded markings shall be applied at the specified width, and at a thickness not less than 1/8" nor more than 3/16".

B. Reflective Glass Spheres (for Drop On)

Immediately following the application, reflective glass spheres shall be dropped onto the molten thermoplastic marking at the rate of one (1) pound per 20 square feet of composition.

687-3.07 Surface Cleaning and Preparation of Pavement.

The Contractor shall be responsible for cleaning the pavement surface to the satisfaction of the Engineer.

Surface cleaning and preparation work shall be performed only in the area of the thermoplastic markings application.

At the time of the application all pavement surfaces shall be free of oil, dirt, dust, grease and similar foreign materials. The cost of cleaning these contaminants shall be included in the bid price of this item.

In addition, concrete curing compounds on new Portland cement concrete surfaces; and existing pavement markings on both concrete and bituminous pavement surfaces shall be cleaned and paid for under separate items.

687-3.08 Application of Thermoplastic Pavement Markings

All special markings, cross-walks, stop bars, legends, arrows and similar patterns shall be placed with a portable applicator. Unless otherwise specified in the contract documents all centerline, skip line, edge line and other longitudinal type markings may be applied with either a portable or mobile applicator.

When the surface preparation work has been completed, if applicable, the bituminous and/or concrete pavement surface shall be primed. The primer shall be applied with spray equipment. Unless otherwise recommended by the manufacturer, primer materials shall be allowed to "set-up" prior to applying the thermoplastic composition. Type I primer shall be allowed to dry to a tack-free condition; usually occurring in less than 10 minutes. Type II primer shall be allowed to dry to a "tacky" condition; which usually occurs within 15 minutes under normal conditions. Type III primers that have been recommended by the manufacturer shall be allowed to dry for the directed time period. To shorten the curing time of epoxy resin type primers, an infra-red heating device may be used.

18. ACRYLIC ZONE MARKING PAINT (WHITE) in 5 Gallon Pails, per pallet of 24 cans. (for pavement marking on paved roads and parking lots.) Product shall be Pratt and Lambert Bronze Z 9000 (White) or an equivalent product from another manufacturer having the same makeup. Product must conform to the following minimum specifications:

Vehicle: 100% Acrylic
Sheen: Flat
% Solids: By Weight: 73%
% Solids: By Volume:56%
Wt./Gallon: 13.0 lbs.
Flashpoint: 102°F
VOC Level: Max 125 g/l (1.04 lbs./gal.)
Thinner: Water
Cleanup: Water for wet paint, Xylene, Toluene or MEK for dried paint.
Dry Time: @ 77°F (25°C) 50% RH: To Touch: 15 Minutes

19. CONCRETE, 4000 P.S.I. MIN. DELIVERED TO WORKSITE, POURED IN PLACE

The Department of public works has the occasion to need poured in place concrete for the construction of sidewalk panels, foundation pads, etc. Therefore, there is a need for a vendor to deliver mixed concrete to the site where the DPW is engaged in work. Concrete used for this purpose shall be mixed in accordance with NY state specifications, and shall have a minimum twenty-eight-day compressive strength of four thousand (4,000) pounds per square inch.

In accordance with this bid, the vendor shall provide, deliver and pour liquid concrete mix at the job site. The price quoted shall include manufacture, transport, delivery and pouring by the vendor to the job sites located within the town of Bedford. This type of concrete is typically used by the BDPW to replace sidewalk panels and driveway aprons within the town right of way. The Town will excavate and form up, the work site prior to the arrival of the concrete delivery vehicle. After the vendor pours the concrete, BDPW employees will subsequently screed, broom, etc. the concrete. There will be a 3 cubic yard minimum drop.

All concrete shall have an air entrainment conforming to ASTM requirements of the latest revision. The air-entraining admixture used shall be one approved by the New York State Department of Public Works and must also be approved by the Commissioner of Public Works

20. Flowable Fill (K-Crete, Controlled Density Fill, etc.) Delivered and Poured, Per Cubic Yard. The vendor shall provide, deliver, and pour flowable fill (K-Crete) to the job site. The price shall include manufacture, transport, delivery and pouring by the vendor to the job sites located within the town of Bedford. This type of fill is typically used by the BDPW to backfill excavated trenches within the town right of way. 3 cubic yard minimum drop.

21A. Corrugated high-density polyethylene drainage pipe 12" Diameter Dual Wall smooth inside per lineal foot. The price shall include acquisition, transport, delivery by the vendor to the Town of Bedford facility located at the end of Crusher Road in Bedford Village or to a site within the Town of Bedford if so requested by the Bedford Commissioner of Public Works. This type of pipe is typically used by the BDPW in storm water drainage culvert construction projects. The town of Bedford uses

this type of pipe with separate connection collars that are priced separately in item 31B listed below. There will be a 200' L.F. minimum delivery.

21B.Corrugated high-density polyethylene drainage pipe 12" Diameter connection collar (to be used in conjunction with 12" Corrugated polyethylene drainage pipe listed in item 31A. above.) The price shall include acquisition, transport and delivery by the vendor to the Town of Bedford facility located at the end of Crusher Road in Bedford Village or to a site within the Town of Bedford if so requested by the Bedford Commissioner of Public Works. This type of pipe collar is typically used by the BDPW in storm water drainage culvert construction projects.

22A. Corrugated high-density polyethylene drainage pipe 15" Diameter Dual Wall smooth inside per lineal foot. The price shall include acquisition, transport and delivery by the vendor to the Town of Bedford facility located at the end of Crusher Road in Bedford Village or to a site within the Town of Bedford if so requested by the Bedford Commissioner of Public Works. This type of pipe is typically used by the BDPW in storm water drainage culvert construction projects. The town of Bedford uses this type of pipe with separate connection collars that are priced separately in item 32B listed below. There will be a 200' L.F. minimum delivery.

22B.Corrugated high-density polyethylene drainage pipe 15" diameter connection collar (to be used in conjunction with 15" diameter Corrugated polyethylene drainage pipe listed in item 32A. above.) The price shall include acquisition, transport and delivery by the vendor to the Town of Bedford facility located at the end of Crusher Road in Bedford Village or to a site within the Town of Bedford if so requested by the Bedford Commissioner of Public Works. This type of pipe collar is typically used by the BDPW in storm water drainage culvert construction projects.

23A. Corrugated high-density polyethylene drainage pipe 18" Diameter Dual Wall smooth inside per lineal foot. The price shall include acquisition, transport and delivery by the vendor to the Town of Bedford facility located at the end of Crusher Road in Bedford Village or to a site within the Town of Bedford if so requested by the Bedford Commissioner of Public Works. This type of pipe is typically used by the BDPW in storm water drainage culvert construction projects. The town of Bedford uses this type of pipe with separate connection collars that are priced separately in item 33B listed below. There will be a 200' L.F. minimum delivery.

23B.Corrugated polyethylene drainage pipe 18" diameter connection collar (to be used in conjunction with 18" diameter Corrugated polyethylene drainage pipe listed in item 33A. above.) The price shall include acquisition, transport and delivery by the vendor to the Town of Bedford facility located at the end of Crusher Road in Bedford Village or to a site within the Town of Bedford if so requested by the Bedford Commissioner of Public Works. This type of pipe collar is typically used by the BDPW in storm water drainage culvert construction projects

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Proposal for Bid Opening April 23, 2013

To: Town Clerk
Town of Bedford
321 Bedford Road
Bedford Hills, NY 10507

We hereby propose to furnish materials and services to the Town of Bedford Public Works Department in accordance with the Specifications and Notice, dated April 23, 2013, for material ordered for delivery on or before May 01, 2014 at unit prices as bid below:

1A. BITUMINOUS CONCRETE

Spec.Item	Material Description	AC-20 per Ton of Mix		Price FOB Picked-Up Per Net Ton
403.11	Base - Course Type 1	5.00%		$
403.12	Base – Course Type 2	3.50%		$
403.13	Binder – Course Type 3	5.50%		$
403.14	Binder – Course Type 4	4.00%		$
403.15	Shim – Course Type 5	8.25%		$
403.16	Top – Course Type 6	6.40%		$
403.17	Top – Course Type 6F2	6.40%		$
403.18	Top – Course Type 7	7.00%		$
403.19	Top – Course Type 7F	7.00%		$
714.06	Asphaltic Concrete Curb	7.50%		$
403.2001	Asphaltic Concrete Stockpile (Patching Winter Mix)	7.00%		$

Plant location: _____

Mileage from Town Garage: _____

Price Adjustment Clause:
To adjust equally to compensate for price fluctuations, bidder shall use $576.00 ($635.00 metric) as posted by NYSDOT (Average Posted Prices for Asphalt) as of April 2013 for the base price of asphalt cement at the time of their submission of bid. NYSDOT Average Posted Prices for Asphalt

(Performance Graded Binder.) The NYSDOT Average Posted Prices for Asphalt are to be used in computation of progress and final payments for the Asphalt Price Adjustment (Item 698.01 and 698.04). Instructions for calculating these payments are contained in the NYSDOT Standard Specifications NYSDOT Average Posted Prices are available at:

https://www.dot.ny.gov/main/business-center/contractors/construction-division/fuel-asphalt-steel-price-adjustments?nd=nysdot

In requesting payment the vendor shall invoice the Town of Bedford for the number of tons at the bid price. An additional statement on the same invoice form will designate the adjustment based on the percentage of asphalt cement in the particular mix. This will be either and additional payment to the vendor or a credit to the Town if the asphalt cement cost identified above is over or under the established base price.

Price Adjustment = % of asphalt * New average FOB Terminal Price. US Base Documentation of the price of asphalt will be submitted with invoices.

1B. COLD PATCH

COLD PATCH		**Price**
a. Bituminous Bagged & Palletized All Weather Cold Patch Mix	Delivered	Per 50lb. Bag: $
b. Bituminous All Weather Bagged & Palletized Cold Patch Mix	DPW to pick up at plant	Per 50lb. Bag: $
c. Bulk, Loose Bituminous Cold Patch	DPW to pick up at plant	Per Ton: $
d. Bagged & Palletized "Green" Cold Patch Mix	Delivered	Per 50lb. Bag: $
e. Bagged & Palletized "Green" Cold Patch Mix	DPW to pick up at plant	Per 50lb. Bag: $
f. Bagged & Palletized UPM "Unique Paving Materials Corp." High Performance Cold Patch Mix (or equivalent)	Delivered	Per 50lb. Bag: $
g. Bagged & Palletized UPM "Unique Paving Materials Corp." High Performance Cold Patch Mix (or equivalent)	DPW to pick up at plant	Per 50lb. Bag: $

Plant/Quarry for Bituminous Cold Patch Bulk Pickup location for Bulk Loose Cold Patch to be picked up by DPW at vendor's plant (Item 1B. c. above) must be included:

_____

_____

2. CRUSHED WASHED BLUE/GRAY STONE DELIVERED

NYSDOT SPECIFICATION 703-02		PER TON DELIVERED
2	¾”	$
3A	1 ¼”	$
3	1 ½ “	$
4	3 ½ “ -	$
620-02 Fine Stone Fill	4” + or -	$
620-03 Lite Stone Fill	10” + or -	$
620-04 Medium Stone Fill	18” + or -	$

Plant/Quarry location **(must be included):** _____

_____

_____

2. A. CRUSHED WASHED BLUE/GRAY STONE FOR DPW PICK UP AT YOUR FACILITY

NYSDOT SPECIFICATION 703-02		PER TON FOR DPW PICK UP
2	¾”	$
3A	1 ¼”	$
3	1 ½ “	$
4	3 ½ “ -	$
620-02 Fine Stone Fill	4” + or -	$
620-03 Lite Stone Fill	10” + or -	$
620-04 Medium Stone Fill	18” + or -	$

Plant/Quarry location **(must be included):** _____

_____

_____

3. CRUSHED WHITE LIMESTONE

NYSDOT SPECIFICATION 703-02		PER TON DELIVERED
2	¾”	$
3A	1 ¼”	$

3	1 ½ “	$
4	3 ½ “ -	$
620-02 Fine Stone Fill	4” + or -	$
620-03 Lite Stone Fill	10” + or -	$
620-04 Medium Stone Fill	18” + or -	$

Plant/Quarry location **(must be included):** _____

_____

_____

3.A. CRUSHED WHITE LIMESTONE FOR DPW PICK UP

NYSDOT SPECIFICATION 703-02		PER TON FOR DPW PICK UP
2	¾”	$
3A	1 ¼”	$
3	1 ½ “	$
4	3 ½ “ -	$
620-02 Fine Stone Fill	4” + or -	$
620-03 Lite Stone Fill	10” + or -	$
620-04 Medium Stone Fill	18” + or -	$

4. COURSE WASHED DARK BROWN NYS SPECIFICATION WINTER SAND

Per Ton Delivered: $ _____

Plant/Quarry location **(must be included):** _____

_____

_____

5. COURSE SCREENED DARK BROWN WINTER SAND

Per Ton Delivered: $ _____

Plant/Quarry location **(must be included):** _____

_____

_____

6. COURSE WASHED LONG ISLAND SAND

Per Ton Delivered: $ _____

Plant/Quarry location **(must be included):** _____

_____

_____

7. CRUSHED WASHED GRAVEL- NYSDOT SPECIFICATION

3/8 " Per Ton Delivered: $ _____

3/4 " Per Ton Delivered: $ _____

Plant/Quarry location **(must be included):** _____

_____

_____

8A. RUN OF BANK GRAVEL

6" Minus (-) Stone Per C.Y. Delivered: $ _____

Plant/Quarry location **(must be included):** _____

_____

_____

8B. PROCESSED RUN OF BANK GRAVEL – NYSDOT Specification

Item #4/1" Minus (-) Stone Per C.Y. Delivered: $ _____

Plant/Quarry location **(must be included):** _____

_____

_____

9A. ITEM #4 SHOULDER STONE –¾" (Blue/Gray Stone)–NYSDOT Specification

Item 4/1" Minus (-) Shoulder Stone Per Ton Delivered: $ _____

Plant/Quarry location **(must be included):** _____

_____

_____

9A. 1. Please provide an alternative price for the Town of Bedford to pick up at your facility:

Per Ton for Pickup by Bedford DPW (or designee): $_____

9B. ITEM #4 SHOULDER STONE – ¾" Limestone –NYSDOT Specification
Item 4/1" Minus (-) Shoulder Limestone Per Ton Delivered: $ _____

Plant/Quarry location **(must be included):** _____

_____

_____

9B. 1. Please provide an alternative price for the Town of Bedford to pick up at your facility:

Per Ton for Pickup by Bedford DPW (or designee): $_____

9C. ITEM #4 Reprocessed – ¾" Limestone –NYSDOT Specification
Item 4/1" Minus (-) Shoulder Stone Per Ton Delivered: $ _____

Plant/Quarry location **(must be included):** _____

_____

_____

9C. 1. Please provide an alternative price for the Town of Bedford to pick up at your facility:

Per Ton for Pickup by Bedford DPW (or designee): $_____

10. GUIDE RAIL AND POST INSTALLATION

Corrugated box beam and guide rail materials meeting galvanized specifications:

10-1. Complete layout and installation of guide rail and posts per NYS Specifications:

Per Lineal Foot: $ _____

10-2. Corrugated beam type guide rail – punched 6'3":

Per Lineal Foot: $ _____

10-3. Corrugated beam type guide rail–punched 6'3" curved to special radius:

Curved to 50' radius and up	**Each: $ _____**
Curved to 40' to 50' radius	**Each: $ _____**
Curved to 30' to 39' radius	**Each: $ _____**
Curved to 20' to 29' radius	**Each: $ _____**

10-4. Corrugated beam type guide rail – length 13'6 ½" (shop curved rail) (approach and terminal) (rotation 90°): **Each: $ _____**

10-5. 3” x 2 3/8” I Intermediate guide rail posts – length 5’3”: **Each: $ _____**

10-6. Flared type terminal sections 12 gauge: **Each: $ _____**

10-7. Wrap around type terminal sections 12 gauge: **Each: $ _____**

10-8. Concrete anchor unit with all necessary hardware: **Each: $ _____**

10-9. Galvanized splice bolts 1 ¼” x 5/8”: **Each: $ _____**

10-10. Galvanized post bolts 5/16” x 1 ¾” with water & nuts: **Each: $ _____**

10-11. Galvanized post bolts 2” x 5/8”: **Each: $ _____**

10-12. Galvanized support bolts ½” x 1 ½”, 2 nuts, no washers: **Each: $ _____**

10-13. 6” x 6” x 24’ box beam type guide rail including self angle, splice plates, nuts and bolts: **Per Lineal Foot: $_____**

10-14. 6” x 6” box beam type guide rail curved to special radius:

Per Lineal Foot: $_____

10-15. 6” x 6” box beam type guide rail shop cuts and mitered curved rail:

Per Lineal Foot: $_____

10-16. 6” x 6” box beam guide rail end sections: **Each: $ _____**

10-17. 3” I beam guide rail posts 5’3” long intermediate type post for box beam rail:

Each: $ _____

10-18. 3” I beam guide rail posts 3’8” long end type post for box beam rail:

Each: $ _____

Corrugated box beam and guide rail materials meeting Mayari specifications:

10-19. Mayari corrugated beam type guide rail – punched 6’3”:

Per Lineal Foot: $_____

10-20. Mayari corrugated beam type guide rail – punched 6’3” curved to special radius:

Curved to 50’ radius and up **Each: $ _____**

Curved to 40’ to 50’ radius **Each: $ _____**

Curved to 30’ to 39’ radius **Each: $ _____**

Curved to 20’ to 29’ radius **Each: $ _____**

10-21. Mayari Corrugated beam type guide rail – length 13'6 ½" (shop curved rail) (approach and terminal) (rotation 90°): **Each: $ _____**

10-22. 3" x 2 3/8" Mayari I Intermediate guide rail posts–length 5'3" **Each: $ _____**

10-23. Mayari Flared type terminal sections 12 gauge: **Each: $ _____**

10-24. Mayari Wrap around type terminal sections 12 gauge: **Each: $ _____**

10-25. 6" x 6" x 24' Mayari box beam type guide rail including self-angle, splice plates, nuts and bolts: **Per Lineal Foot: $_____**

10-26. 6" x 6" Mayari box beam type guide rail curved to special radius:

Per Lineal Foot: $_____

10-27. 6" x 6" Mayari box beam type guide rail shop cuts and mitered curved rail:

Per Lineal Foot: $_____

10-28. 6"x6" Mayari box beam guide rail end sections: **Each: $ _____**

10-29. 3" Mayari I beam guide rail posts 5'3" long intermediate type post for box beam rail guide rail. The bottom portion of the I beam post that is placed into the ground will be hot dipped galvanized: **Each: $ _____**

10-30. 3" Mayari I beam guide rail posts 3'8" long end type post for box beam rail:

E**ach: $ _____**

CABLE GUIDE RAIL SPECIFICATIONS:

10-31. Cable – ¾" galvanized round wire, 3 strand – 7 wires per strand (606-1R1):

Per Lineal Foot: $_____

10-32. Hook bolts, 5/16" x 1 ¾" long w/2 nuts (606-1R1, detail C): **Each: $ _____**

10-33. Turnbuckle end assembly complete w/wedge (606-1R1, detail A): **Each: $ _____**

10-34. Spring end assembly complete w/wedge (606-1R1, detail B): **Each: $ _____**

10-35. End post cap complete (606-1R1): **Each: $ _____**

10-36. End post ground support complete (606-2R1, Section A-A): **Each: $ _____**

10-37. Breakaway anchor angle (606 2R1): **Each: $ _____**

10-38. Cable splice w/2 wedges (606-2R1 & GR-21): **Each: $ _____**

10-39. Delineator complete (606-2R1, sketch #2A): **Each: $ _____**

10-40. Intermediate post galvanized (GR-16-R2): **Each: $ _____**

10-41. Intermediate post Mayari (GR-16-R2): **Each: $ _____**

Guide rail bidders must be able to furnish both materials and install posts and guide rail per New York State Specifications.

All materials to conform to NYSDOT Specification Section 606 and Standard Sheet 606.6 12 gauge and 606-3R1 12 gauge.

Guide rail bidders must also include a $5000 bid bond to guarantee delivery of material and performance of work.

Guide rail bidders must maintain sufficient stock so that guide rail materials will be delivered within 5 days after receipt of order.

11. LIQUID CALCIUM CHLORIDE WITH CORROSION INHIBITOR "CORGUARD"

a) 32% Liquid Calcium Chloride with Corrosion Inhibitor. Delivered applied as per itemized specifications:

Delivery under 4000 gallons: **Per Gallon $_____**

Delivery 4000 gallons or more: **Per Gallon $_____**

b) 34% Liquid Calcium Chloride with Corrosion Inhibitor. Delivered applied as per itemized specifications:

Delivery under 4000 gallons: **Per Gallon $_____**

Delivery 4000 gallons or more: **Per Gallon $_____**

c) Single Tank Unit (70 gall. capacity), delivered, complete as per specifications:

$_____

d) Double Tank Unit (140 gall. capacity), delivered, complete as per specifications:

$_____

e) Installation Cost (for mounting tanks on trucks)* **$_____**

* installation at Town Garage additional **$_____**

12. Liquid Magnesium Chloride with Corrosion Inhibitor, "Ice-Stop CL"

a) 25% Liquid Magnesium Chloride with Corrosion Inhibitor. Delivered applied as per itemized specifications:

Delivery under 4000 gallons: **Per Gallon $_____**

Delivery 4000 gallons or more: **Per Gallon $_____**

13. PROPOSAL LIQUID ENVIROBRINE with Corrosion Inhibitor.

Delivery and application of brine solutions:

The bidder certifies that the bid submitted is in full compliance with the specification and agrees to all requirements of the specification. If not in compliance, a full itemized explanation of the non-conformance shall be attached to the bid. If the non-conformance affects the quality of the brine solution or the required capability of the bidder, the bid will be rejected.

a) 35% Liquid ENVIROBRINE Solution delivered and applied to roads as per specifications: **Per Gallon $ _____**

b) 35% Liquid ENVIROBRINE with Corrosion Inhibitor and surface binding agent delivered and applied to roads as per specifications: **Per Gallon $ _____**

c) 35% Liquid ENVIROBRINE Solution delivered to a tank as per specifications: **Per Gallon $ _____**

d) 35% Liquid ENVIROBRINE Solution with Corrosion Inhibitor delivered to a tank as per specifications: **Per Gallon $ _____**

14A. Potassium Chloride Flakes The bid is submitted in full conformance with the detailed specification. Any variation from the specification shall be noted and fully explained in an attachment. Any variation from the bid will not affect the quality of performance of the product or will result in disqualification of the bid.

a) Potassium Chloride Flakes delivered to Town of Bedford in 50 lb bags: **Per Bag: $_____**

14B. Calcium Chloride Flakes The bid is submitted in full conformance with the detailed specification. Any variation from the specification shall be noted and fully explained in an attachment. Any variation from the bid will not affect the quality of performance of the product or will result in disqualification of the bid.

a) Calcium Chloride Flakes delivered to Town of Bedford in 50 lb bags: **Per Bag: $_____**

15A. REFLECTORIZED YELLOW & WHITE EPOXY PAVEMENT MARKING PAINT (Installed on Pavement)

Unit Price per mile:
–Double Yellow Center Lines – 4" wide per strip – 25 miles + or – first application – up to 5 miles + or – second application: **Unit Price Per Mile $_____**

Unit price per mile
–Single White Edge Line – 4" wide strip: **Unit Price Per Mile $_____**

15B. CROSS WALK AND STOP BAR MARKING USING REFLECTORIZED WHITE

EPOXY PAVEMENT MARKING PAINT (Installed on Pavement)
Unit Price per lineal foot

- **12" wide stripe Unit Price Per 12" wide stripe per lineal foot $_____**
- **18" wide stripe. Unit Price per 18" wide stripe per lineal foot $_____**
- **Price per hour for contractor to supply optional traffic control personnel $_____**

16A. REFLECTORIZED YELLOW & WHITE LATEX PAVEMENT MARKING PAINT (Installed on Pavement)

Unit Price per mile:
– Double Yellow Center Lines – 4" wide per strip – 25 miles + or – first application – up to 5 miles + or – second application.: **Unit Price Per Mile $_____**

Unit price per mile :
– Single White Edge Line–4" wide strip: **Unit Price Per Mile $_____**

16B. CROSS WALK AND STOP BAR MARKING USING REFLECTORIZED WHITE LATEX PAVEMENT MARKING PAINT (Installed on Pavement)

Unit Price per lineal foot

- **12" wide stripe Unit Price Per 12" wide stripe per lineal foot $_____**
- **18" wide stripe. Unit Price per 18" wide stripe per lineal foot $_____**
- **Price per hour for contractor to supply optional traffic control personnel $_____**

17. THERMOPLASTIC PAVEMENT MARKINGS (Installed on Pavement) as per specifications:

Unit Price per linear foot – Double Yellow Center Line – 4" wide per stripe:

4" Yellow – **Price per Linear Foot $_____**

Unit Price per linear foot — Single White Edge Line – 4" wide per stripe:

4" White – **Price per Linear Foot $_____**

Stop Bars / Cross Walk: **Price per square Foot $ _____**

Symbols:	RxR Crossing	**Each: $_____**
	Arrow	**Each: $_____**
	Handicap Parking	**Each: $_____**
Letters:	SCHOOL	**Per Letter: $_____**
Removal of Line (s)		**Price per square Foot $ _____**

- **Price per hour for contractor to supply optional traffic control personnel $_____**

18. ACRYLLIC MARKING PAINT (WHITE) in 5 gallon pails.

Acrylic Marking Paint (white) in 5 gallon pails. Delivered	(5 gallon pails.) Pallet of 24 Pails (i.e. 120 Gallon Total Min Delivery)	Price per pallet delivered: $_____
Acrylic Marking Paint (white) in 5 gallon pails. For DPW Pickup at vendor's site.	(5 gallon pails.) Pallet of 24 Pails (i.e. 120 Gallon Total Min Pickup)	Price per pallet DPW pick up at vendor's site $_____

19. CONCRETE 4000 P.S.I. Delivered, Poured in Place

ITEM	Amount Delivered	Cost Delivered per cubic yard (including delivery.)
4000 p.s.i. Concrete, Delivered Poured in Place	2 cubic yard Min. Delivery	$ _____
4000 p.s.i. Concrete, Delivered Poured in Place	4 cubic yard Min. Delivery	$ _____
4000 p.s.i. Concrete, Delivered Poured in Place	6 cubic yard Min. Delivery	$_____
4000 p.s.i. Concrete, Delivered Poured in Place	8 cubic yard Min. Delivery	$_____
4000 p.s.i. Concrete, Delivered Poured in Place	10 cubic yard Min. Delivery	$_____
4000 p.s.i. Concrete, Delivered Poured in Place	12 cubic yard Min. Delivery	$_____
4000 p.s.i. Concrete, Delivered Poured in Place	14 cubic yard Min. Delivery	$_____
4000 p.s.i. Concrete, Delivered Poured in Place	16 cubic yard Min. Delivery	$_____

20. FLOWABLE FILL (K-Crete, Controlled Density Fill) Price per Cubic Yard, Manufactured, Delivered and Poured by Vendor to Job Site, (3 Cubic Yard minimum Drop)

ITEM		Price Per Cubic Yard
A. Flowable Fill (K-Crete) Delivered to Job Site (3CY Minimum Drop.)	Per Cubic Yard Cost Delivered.	$ _____

21A. Corrugated high-density polyethylene drainage pipe 12" Diameter Dual Wall smooth inside per l.f. (Delivered to Bedford DPW. 200 l.f. minimum order.)

ITEM		Price Per Lineal Foot
A. Corrugated polyethylene drainage pipe 12" Diameter Dual Wall smooth inside per l.f. (Delivered to BDPW 200 l.f. minimum order.)	Per Lineal Foot Cost Delivered.	$ _____

21B. Corrugated high-density polyethylene drainage pipe connection collars (for 12" Diameter drainage pipe listed in item 30A. above.)

ITEM		Price Per Collar
A. Corrugated polyethylene drainage pipe 12" Diameter connection collars (Delivered to BDPW)	Per Collar Cost Delivered.	$ _____

22A. Corrugated high-density polyethylene drainage pipe 15" Diameter Dual Wall smooth inside per l.f. (Delivered to Bedford DPW. 200 l.f. minimum order.)

ITEM		Price Per Lineal Foot
A. Corrugated polyethylene drainage pipe 15" Diameter Dual Wall smooth inside per l.f. (Delivered to BDPW 200 l.f. minimum order.)	Per Lineal Foot Cost Delivered.	$ _____

22B. Corrugated high-density polyethylene drainage pipe connection collars (for 15" Diameter drainage pipe listed in item 31A. above.)

ITEM		Price Per Collar
A. Corrugated polyethylene drainage pipe 15" Diameter connection collars (Delivered to BDPW)	Per Collar Cost Delivered.	$ _____

23A. Corrugated high-density polyethylene drainage pipe 18" Diameter Dual Wall smooth inside per l.f. (Delivered to Bedford DPW. 200 l.f. minimum order.)

ITEM		Price Per Lineal Foot
A. Corrugated polyethylene drainage pipe 18" Diameter Dual Wall smooth inside per l.f. (Delivered to BDPW 200 l.f. minimum order.)	Per Lineal Foot Cost Delivered.	$ _____

23B. Corrugated high-density polyethylene drainage pipe connection collars (for 18" Diameter drainage pipe listed in item 32A. above.)

ITEM		Price Per Collar
A. Corrugated polyethylene drainage pipe 18" Diameter connection collars (Delivered to BDPW)	Per Collar Cost Delivered.	$ _____

REQUIREMENTS FOR ALL CONTRACTORS PERFORMING LABOR FOR THE TOWN, OR DELIVERING TO TOWN FACILITIES (INCLUDES ITEMS A-E BELOW)

A. Insurance

The Contractor/Subcontractor shall purchase and maintain insurance of the following types of coverage and limits of liability:

1) Commercial General Liability (CGL) coverage with limits of Insurance of not less than $1,000,000 each occurrence and $2,000,000 Annual Aggregate.

   a) If the CGL coverage contains a General Aggregate Limit, such General Aggregate shall apply separately to each project.

   b) CGL coverage shall be written on ISO Occurrence form CG 00 011093 or a substitute form providing equivalent coverage and shall cover liability arising from premises, operations, independent contractors, product-completed operations, and personal and advertising injury,

blanket contractual including injury to subcontractors employees.

Note: c) Town of Bedford and their agents, officers, directors and employees shall be included as additional insured on the CGL, using ISO Additional Insured Endorsement CG 20 10 1185 or an endorsement providing equivalent or broader coverage to Town of Bedford and their agents, officers, directors and employees. The coverage must be underwritten by an Insurance Company with at least 'A 7' Best rating as defined by A.M. Best. Coverage for the additional insured shall apply as Primary and Non-Contributing Insurance before any other insurance or self-insurance, include any deductible, maintained by, or provided to, the additional insured's.

d) Contractor/Subcontractor shall maintain CGL coverage for itself and all additional insured for the duration of the project and maintain Completed Operations coverage for itself and each additional insured for at least 2 years after completion of the Work.

2) Automobile Liability
   a) Business Auto Liability with limits of at least $1,000,000 each accident.
   b) Business Auto coverage must include coverage for liability arising out of all owned, leased, hired and non-owned automobiles.
   c) Town of Bedford and their agents, officers, directors and employees shall be included as insured on the auto policy.

3) Workers Compensation and Employers Liability
   a) Employers Liability Insurance limits of at least $500,000 each accident for bodily injury by accident and $500,000 each employee for injury by disease.
   b) Where applicable, U.S. Longshore and Harbor workers Compensation Act Endorsement shall be attached to the policy.
   c) Where applicable, the Maritime Coverage Endorsement shall be attached to the policy.

4) Property Insurance shall be carried by the contractor which shall cover materials being installed onsite, in transit, and/or at any other location.

5) The Contractor shall not sublet any part of his work without prior written approval of the Town, and without assuming full responsibility for requiring similar insurance from his subcontractors and shall submit satisfactory evidence to that effect to the Town of Bedford. Each such insurance policy, except the Workers' Compensation Policy, shall include The Town of Bedford and their agents, officers, directors and employees as an additional insured.

6) Certificates shall provide that 30 days written notice prior to cancellation be given to the Town of Bedford. Policies that lapse and/or expire during the term of occupancy shall be re-certified and received by Town of Bedford no less than 30 days prior to cancellation or renewal.

B. Safety Provisions

The safety provisions of applicable laws, building and construction codes and the safety rules approved by the State Labor Commissioner shall be observed.

The provisions of the Federal Occupational Safety and Health Administration's "Occupational Safety and Health Standards" and "Safety and Health Regulations for Construction" shall be observed.

Should at any time during the work under this Contract any Local/State/Federal safety inspector visit the site for the purpose of a safety inspection, the Contractor shall immediately notify the Town representative on the job site.

C. Hours

No laborer, worker or mechanic in the employ of a contractor or subcontractor engaged in the performance of any public work project shall be permitted to work more than eight hours in any day or more than five days in any week, except in cases of extraordinary emergency. The work must be performed between 7:00am to 3:30pm Monday through Friday. Any exceptions out of these hours must have prior approval by the Department Head in charge of the public work project.

D. Wages and Supplements

Contractor shall fully comply with New York Labor Law §220. The wages and supplements to be paid and/or provided to laborers, workers and mechanics employed on a public work project shall not be less than those listed in the current Prevailing Rate Schedule for the locality where the work is performed. Contractor shall comply with the Prevailing Rate Schedule from the New York State Department of Labor annexed hereto as Attachment B.

Contractor will submit a transcript of their original payroll record, subscribed and sworn to/affirmed as true under the penalty of perjury, to the Commissioner of Public Works within thirty (30) days of the issuance of the original payroll and every thirty (30) days thereafter.

The filing of payrolls in a manner consistent with N.Y. Labor Law §220(3)(a) is a condition precedent to payment of any sums due and owing to any person for work done upon the contract.

E. Indemnification and Hold Harmless Agreement

To the fullest extent permitted by law, Contractor/Subcontractor/Vendor will indemnify and hold harmless the Town of Bedford, it's officers, representatives, agents and employees from and against any and all claims, suits, liens, judgments, damages, losses and expenses, including reasonable legal fees and all court costs and liability (including statutory liability) arising in whole or in part and in any manner from injury and/or death of person or damage to or loss of any property resulting from the acts, omissions, breach or default of Contractor/Subcontractor/Vendor, it's officers, directors, agents, employees and subcontractors, in connection with the performance of any work by or for Contractor/Subcontractor/Vendor pursuant to any contract, Purchase Order and/or related Proceed Order. Contractor/Subcontractor/Vendor will defend and bear all costs of defending any actions or proceedings brought against the Town of Bedford, their officers, representatives, agents and employees, arising in any employee of the Contractor/Subcontractor/Vendor and shall not be limited in any way by an amount or type of damage, compensations, or benefits payable under any applicable workers' compensation, disability benefits or other similar employees benefit act.

The Contractor/Subcontractor/Vendor hereby expressly permits the Town of Bedford to pursue and assert claims against the Contractor/Subcontractor/Vendor for indemnity, contribution and common law negligence arising out of claims for damages for death and personal injury.

Company Title/Name: _____

Name: _____ Signature: _____

Date: _____

Nature/Scope of Work Being Performed: _____

NON-COLLUSIVE BIDDING CERTIFICATION

Made pursuant to Section 103-d of the General Municipal Law of the State of New York as amended by the Laws of 1966.

(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 his 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 been knowingly disclosed by the bidder and will not knowingly be disclosed by the bidder prior to the opening, directly or indirectly, to any other bidder or to any competitor; and

(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.

(b) A bid shall not be considered for award nor shall any award be made where (a) (1) (2) and (3) , above, have not been complied with; provided, however, that if in any case the bidder cannot make the foregoing certification, the bidder shall so state and shall furnish with the bid a signed statement which sets forth in detail the reasons therefore. Where (a) (1) (2) and (3) , above, have not been complied with, the bid shall not be considered for award nor shall any award be made unless the head of the purchasing unit of 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.

_____ _____

Date Legal Name of Person, Firm or Corporation

Seal of Corporation: _____

_____

_____

Business Address of Person, Firm or Corporation

by: _____

Signature and Title

BID PROPOSAL

_____ _____

Date Legal Name of Person, Firm or Corporation

Seal of Corporation: _____

_____

_____

Business Address of Person, Firm or Corporation

_____

Telephone Number

_____

Contact Name

by: _____

Signature and Title

****** NON-COLLUSION STATEMENT MUST ALSO BE SIGNED ******