ADDENDUM NO. 1

NORTH MAIN STREET RECONSTRUCTION

AND

REHABILITATION OF NORTH MAIN STREET BRIDGE 127/106 OVER THE COCHECO RIVER (ROCHESTER 14019)

City of Rochester
County of Strafford

February 26, 2010

NOTICE TO ALL PROSPECTIVE BIDDERS:

The Contract Documents for this project dated February 10, 2010 are modified as follows:

Bidders shall acknowledge receipt of this Addendum No. 1 on the Bid Proposal Form, Page P-17 REV 1

PLAN MODIFICATIONS:

The following plan sheets shall be replaced in the entirety with the attached revised plan sheets.

1. **Plan Sheet 2** - The Summary of Quantities has been revised. **REPLACE** Sheet 2 with the attached Sheet 2A.

2. **Plan Sheet 4** - The area below and under the picket fence was changed from loam to Stone Fill, Class D over geotextile fabric. Also, a note was added referencing Sheet 13 for River Street construction details from Station 23+50 to Station 26+87 (Additive Alternate #1). **REPLACE** Sheet 4 with the attached Sheet 4A.

3. **Plan Sheet 8** - Notes concerning the type of pavement markings for the crosswalks and handicap symbols have been changed to state that these pavement markings shall be thermoplastic. **REPLACE** Sheet 8 with the attached Sheet 8A.

4. **Plan Sheet 11** - General Note 5 was revised. All driveway aprons shall be paved. Also, additional detectable warning panels and sidewalk reconstruction were added to the layout of the project. **V** Sheet 11 with the attached Sheet 11A.

5. **Plan Sheet 13** - An Additive Alternate #1 Note was added specifying that the lowering and raising of structures within the limits of pavement reclaiming will be subsidiary to the cost of pavement reclaiming. **REPLACE** Sheet 13 with the attached Sheet 13A.

6. **Plan Sheet 33** - A curb anchor detail has been added to the sheet. The bridge curb is to be anchored to the sidewalk. **REPLACE** Sheet 33 with the attached Sheet 33A.

7. **Plan Sheet 34** - Notes 2 and 3 were revised. **REPLACE** Sheet 34 with the attached Sheet 34A.

CONTRACT DOCUMENT MODIFICATIONS:

8. **ADD** the following paragraph to the **WATER SUPPLY** section of the Information to Bidders, Page IB-6:

> A water meter shall be obtained from the City of Rochester Department of Public Works, and the Contractor will be billed accordingly for all water obtained from the City supply. The Contractor shall be responsible for supplying a means of backflow prevention acceptable to the City of Rochester Department of Public Works before attaching any appliance to the public water supply.

9. **REVISE** the final completion date in the second paragraph of the Bid Proposal **from** June 15, 2010 **to June 15, 2011** on Page BP-1**.**

10. **PROPOSAL (BID FORM) MODIFICATIONS**

Modifications have been made to the Proposal (Bid Form).

REMOVE the original Proposal (Bid Form) **AND REPLACE** with the attached REVISED Proposal (Bid Form) which supersedes the Original Proposal (Bid Form) in its entirety from Page P-1 to Page P-16 included with the Original Contract Documents. The REVISED Proposal (Bid Form) shall be submitted.

11. **ADD** the following definition to the Contract Agreement on Page CA-1:

SUBSTANTIAL COMPLETION - That date certified by the Engineer when the construction of the project is sufficiently completed, in accordance with the contract documents, so that the project can be utilized for the purpose intended, without restrictions to vehicle and pedestrian movements within the City's right-of-way.

12. **ADD** subsection 2.5 to ARTICLE 2 - OBLIGATIONS AND LIABILITY on Page CA-2 to read as follows:

2.5 The Owner disclaims any authority or responsibility for job site safety and for the safety of persons who are or are not part of the construction process. It is understood and agreed that the Engineer/Owner will not be responsible for compliance of safety programs, put forth by the Contractor or related OSHA regulation required to be followed by the contractor, employees, subcontractors, and agents. Job site safety shall be the responsibility of the Contractor.

13. **REVISE** Section 1.02 ORDER OF PRECEDENCE OF CONTRACT DOCUMENTS of the Supplemental General Conditions on Page SGC-1 to read as follows:

Errors and inconsistency in Contract Documents or any provisions in any of the Contract Documents which may be in conflict with the paragraphs in these Supplemental General Conditions shall be subject to the following order of precedence for interpretation.

A. Plans will govern Standard Specifications.

B. General Conditions will govern Plans and Standard Specifications.

C. Supplemental General Conditions will govern General Conditions, Plans, and Standard Specifications.

D. Special Provisions will govern Supplemental General Conditions, General Conditions, Plans, and Standard Specifications. The CONTRACTOR shall take no advantage of any apparent error or omission in the Plans or Specifications. In the event the CONTRACTOR discovers such an error or omission, he shall immediately notify the ENGINEER. The ENGINEER will then make such corrections and interpretations as may be deemed necessary for fulfilling the intent of the Plans and Specifications.

14. **ADD** subsection C to 1.04 DEBRIS of the Supplemental General Conditions on Page SGC-2 to read as follows:

C. The Contractor shall provide, maintain, and secure (when necessary) a dumpster at all times during the Contract at his own expense to ensure that debris is disposed of in a timely manner. It shall be the Contractor's responsibility for emptying the dumpster when it becomes filled. The dumpster shall be located within a fenced in area within the work zone as approved by the Resident Engineer. Fencing shall be provided at the cost of the Contractor.

15. **ADD** Section 4.0 TIME EXTENSIONS to the Supplemental General Conditions, Page SGC-11 to read as follows:

Change in intermediate completion dates, substantial completion dates, and final completion dates shall only be allowed through written change orders.

16. **REVISE** Special Provision 503 - Cofferdams and Water Diversion Structures to only require that these structures be required to withstand the 50-year flood elevation. See the attached revised special provision.

17. **REVISE** Special Provision 571 - Repoint Existing Masonry to change the pay units for repointing work **from** Lump Sum **to square foot**. See the attached revised special provision.

18, **ADD** Special Provision 698 - Field Office to add requirements to the Field Office. See the attached special provision.

CLARIFICATIONS/QUESTIONS:

19. **SUBLETTING OF CONTRACT**

The provisions outlined in NHDOT specification Section 108.01 Subletting of Contract shall be changed from 50% of the total contract bid amount for the prime contractor to 40% of the total contract bid required for the prime contractor. See the attached special provision.

20. **STAGING AREA**

The City will make available a portion of the adjacent municipal parking area at the southeast corner of the bridge for use as a staging area / lay-down area for the selected Contractor. This staging area shall be enclosed with 6' high chain link fencing with a secured gate. The fencing shall connect to the proposed concrete barrier with plywood shown on the plans. The required dumpster shall also be located within the staging area. The cost of the required fencing and gate shall be subsidiary to the project. See attached sketch for limits of municipal parking area available for use as a staging area / lay-down area.

ROCHESTER, NH
NORTH MAIN STREET RECONSTRUCTION
NORTH MAIN STREET BRIDGE 127/106 OVER COCHECO RIVER
ROCHESTER 14019

February, 2010

S P E C I A L P R O V I S I O N

AMENDMENT TO 108 – PROSECUTION AND PROGRESS

AMENDING SUBSECTION 108.01 – SUBLETTING OF CONTRACT

Amend the second sentence of the first paragraph to read:

The Contractor's organization shall perform work amounting to no less than 40 percent of the total contract bid amount.

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ROCHESTER, NH
NORHT MAIN STREET RECONSTRUCTION
NORTH MAIN STREET BRIDGE 127/106 OVER COCHECO RIVER
ROCHESTER 14019

February 2010

SPECIAL PROVISION

SECTION 503 – COFFER DAMS AND WATER DIVERSION STRUCTURES

ITEM 503.2– Cofferdams

Construction Requirements

3.3.1a Adequate depths and heights to be defined as able to withstand the **50**-year flood elevation while maintaining one foot of freeboard

ROCHESTER, NH
NORTH MAIN STREET RECONSTRUCTION
NORTH MAIN STREET BRIDGE 127/106 OVER COCHECO RIVER
ROCHESTER 14019

February 2010

SPECIAL PROVISION

SECTION 571 – REPOINTING EXISTING MASONRY

ITEM 571.101 – REPOINT STONEWORK
ITEM 571.102 – REPOINT VAULT BRICKWORK

Description

1.1 The work shall consist of **providing inspection platforms for joint inspection of the bridge with the Engineer**, removing with hand tools the existing deteriorated mortar and cleaning loose material from, and pointing all joints in, the existing masonry where ordered by the Engineer.

Materials

2.1 Materials for pointing work shall be a mix of natural cement, hydrated lime and sand.

Construction Requirements

3.1 The Contractor shall remove existing mortar where directed by the Engineer. Any loose material remaining in the joint shall be removed in its entirety by the use of compressed air or other means as approved by the Engineer. This work shall be done immediately prior to pointing.

The joints shall be thoroughly wet with clean water and filled with mortar. The mortar shall be well driven into the joints and fill all voids between the stones. The joints shall then be finished with a pointing tool approved by the Engineer. The masonry shall be kept wet while the pointing is being done. The pointed masonry shall be protected from direct sunlight and kept wet for a period of at least seventy-two hours after the completion of each day's pointing.

No work shall be done when the ambient air temperature fall below 5°C, or when the masonry exhibits frost. After the pointing is completed and the mortar set, all surfaces exposed to view shall be cleaned of mortar and cement stains.

The face of existing stone and dimension masonry shall be thoroughly cleaned after the completion of pointing of the existing joints. The stonework shall be gone over and any mortar splashes, or smears and any other incrustated matter carefully removed from the surface by scrapers or Carborundum bricks.

Method of Measurement

4.1 The quantity to be paid under this item will be **measured by the square foot to the nearest square foot** done in accordance with this specification to the limits described on the plans or as ordered by the Engineer.

Basis of Payment

5.1 **The accepted quantities of repointing will be paid at the contract unit price per square foot** and shall include the cost of furnishing all labor, material and equipment necessary to complete the work.

Pay Items and Unit:

571.101	Repoint Stonework	**Square Foot**
571.102	Repoint Vault Brickwork	**Square Foot**

ROCHESTER, NH
NORTH MAIN STREET RECONSTRUCTION
NORTH MAIN STREET BRIDGE 127/106 OVER COCHECO RIVER
ROCHESTER 14019

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SECTION 698 --FIELD OFFICE

Add to Section 2.2.1 Equipment Required for all Field Offices.

Computer Equipment: The computer system and accessories to be supplied shall be as listed below. The computer system shall be fully operational (all components and software installed) in the field office by representatives of the Contractor, with an internet connection established. Except for initial mobilization payment, no contractual payments will be processed until the computer is fully operational.

Minimum Computer Unit:

- 100% IBM Compatible, PCI Bus and Video Architecture.
- Minimum 512 KB Cache RAM
- Clock Speed: Minimum 3.8 GHz. Intel or equivalent
- Memory: 2 GB RAM minimum
- Ports: 1 - Parallel Port, 4 – USB 2.0 Ports
- Keyboard
- Hard Disk: 250 GB minimum
- 17" LCD Flat Panel Color Monitor
- DVD+/-RW drive, must be Windows XP compatible
- Optical mouse with pad and connecting cable
- Computer Unit must be portable (i.e. Laptop)

Internet Connection Requirements: The Contractor shall provide 1 – high speed internet connection available from the start of the project for the project duration to allow internet and e-mail access for the Engineer. Internet access shall be obtained through one of the following methods* (in order of preference):

1. Wireless (Cellular) Broadband Access (USB Connection)
2. Cable Modem
3. Satellite Modem
4. Dedicated DSL and Phone Line

* A minimum download speed of 400-700 kpbs is required for the accepted internet connection. Connection type shall be approved by the Engineer.

Software:

- MS Windows XP, Professional Version
- Microsoft Office 2003, Professional Version
- AntiVirus Software w/update subscription

Printer Unit:

- Multifunction Ink Jet printer/copier/scanner/fax with the following minimum specifications:

  - Max print resolution: 600 vertical x 600 horizontal dots of ink per inch
  - 5 sheets per minute print speed
  - Microsoft Windows XP compatibility
  - Computer disks with software drivers and utilities
  - 10 Ft. Long Interface Cable, (USB)
  - Replacement Ink Cartridge(s) as required, with 1 spare set on hand at all times.

Accessories:

- Digital camera:

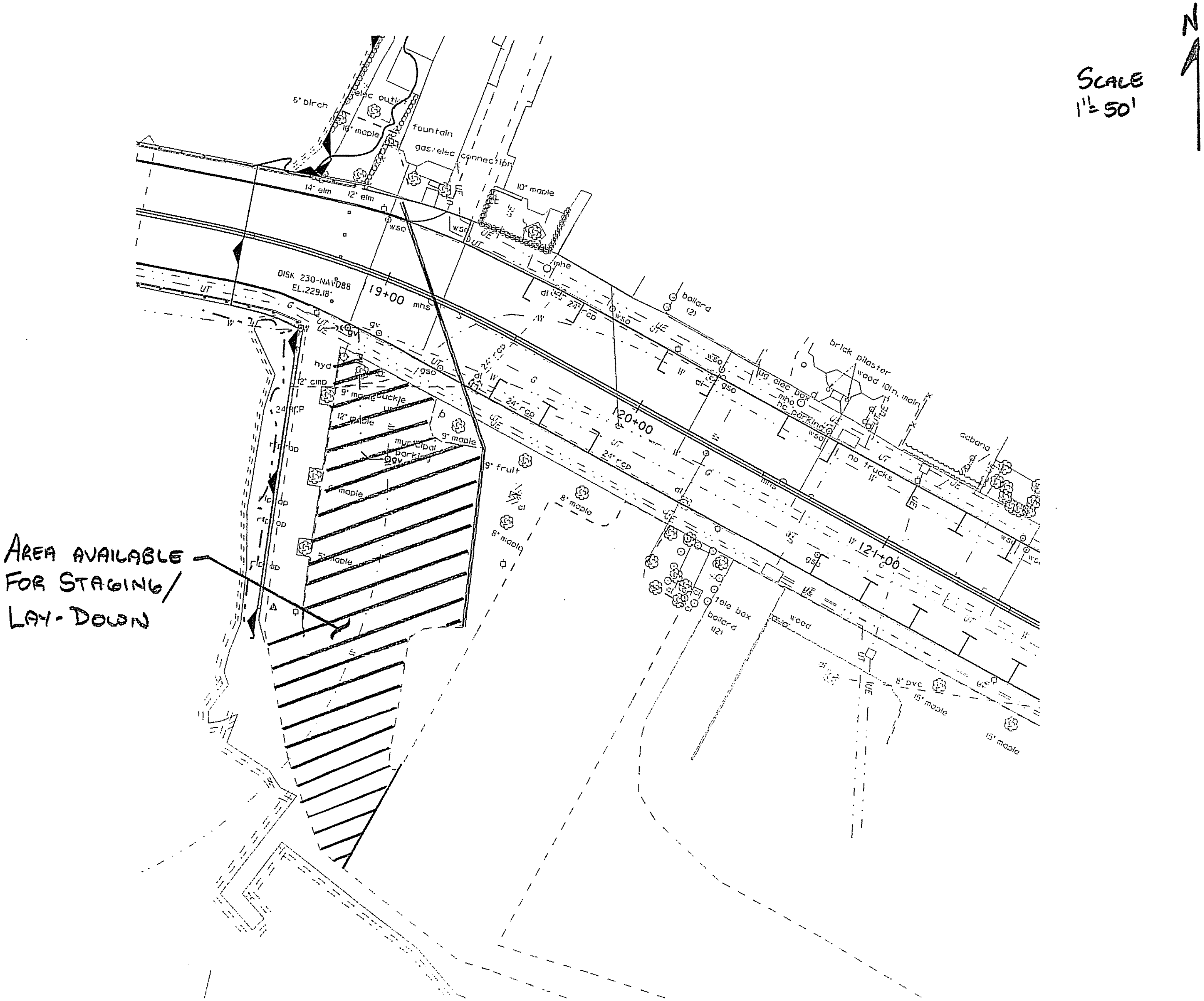
  - Minimum 3.0 MegaPixel resolution
  - 12-volt DC adapter and AC adapter power supply cables
  - Carrying case
  - Picture file storage media, compatible for uploading picture data to the computer unit and printer
  - Supports jpeg file format
  - Backup set of rechargeable batteries and charger

- Surge Protector: 15 Amps, six outlets with circuit breaker control and spike protection.

- Plastic dust covers for the computer printer and keyboard.

- Storage Disks: 10 each minimum DVD-RW diskettes with protective covers, as required and a 20 disk capacity storage container.

- Printer Paper: 8-1/2" x 11" cut sheets and 8-1/2" X 14" cut sheets, 2 reams of each type, to be maintained.


N
SCALE
1" = 50'
AREA AVAILABLE FOR STAGING/ LAY-DOWN
DISK 230-NAVD88
EL.229.18'
19+00
20+00
21+00
6" birch
fountain
gas/elec connection
10" maple
14" elm
12" elm
bollard
(2)
brick pilaster
wood 10in. main
ug elec box
hc parking
no trucks
cabana
hyd
12" cmp
24" rcp
municipal parking
9" maple
12" maple
9" fruit
8" maple
5" maple
tele box
wood
8" pvc
15" maple

PROPOSAL

BRIDGE NO. 127/106

To the City of Rochester, hereinafter called the "OWNER", requests bids for the furnishing of all labor, equipment, and materials required for the Bridge Rehabilitation and Approach Roadway Reconstruction for North Main Street over the Cocheco River in accordance with the Plans and Specifications prepared by McFarland Johnson, Concord, New Hampshire.

The undersigned, as bidder, declares that the only person or parties interested in this Proposal as principals are those named herein; that this Proposal is made without collusion with any other firm; that the undersigned has carefully examined the location of the proposed work, the proposed Form of Contract and the Plans and Specifications therein referred to; and the undersigned proposes and agrees if this Proposal is accepted, they will contract with the awarding authority to provide all necessary labor, machinery, tools, apparatus, and other means of construction and to do all the work and furnish all the materials specified in the Contract in the manner and time therein described and according to the requirements of the ENGINEER therein set forth; and the undersigned will take in full payment, therefore, the following unit and total prices, to wit:

BASE BID PROPOSAL
REFER TO ATTACHED BID PROPOSAL SHEETS P-2 REV 1 TO P-14 REV 1

BID ADDITIVE ALTERNATE PROPOSAL
REFER TO ATTACHED BID PROPOSAL SHEET P-15 REV 1

Notes:

1. All prices must be written in ink. Unit prices shall be written in words as well as figures for the entire proposal. In case of discrepancy, the amount in words shall govern.
2. All prices given shall include labor, materials, and equipment for work in place in accordance with the Drawings, Specifications and Contract Documents.

BASE BID

ITEM NO.	ESTIMATED QUANTITY	ITEM DESCRIPTION & UNIT PRICE (in both words and numerical)	ITEM PRICE (in numerals)
201.21	2 EA	REMOVING SMALL TREES _____ dollars and _____ cents per EA ($_____) per EA	$ _____
202.41	**150 LF**	REMOVAL OF EXISTING PIPE 0-24" DIAMETER _____ dollars and _____ cents per LF ($_____) per LF	$ _____
202.5	2 EA	REMOVAL OF CATCH BASINS, DROP INLETS, AND MANHOLES _____ dollars and _____ cents per EA ($_____) per EA	$ _____
202.6	210 LF	CURB REMOVAL FOR STORAGE _____ dollars and _____ cents per LF ($_____) per LF	$ _____
203.1	1,920 CY	COMMON EXCAVATION _____ dollars and _____ cents per CY ($_____) per CY	$ _____
203.2	**70 CY**	ROCK EXCAVATION _____ dollars and _____ cents per CY ($_____) per CY	$ _____
203.6	20 CY	EMBANKMENT-IN-PLACE _____ dollars and _____ cents per CY ($_____) per CY	$ _____

ITEM NO.	ESTIMATED QUANTITY	ITEM DESCRIPTION & UNIT PRICE (in both words and numerical)	ITEM PRICE (in numerals)
206.1	200 CY	COMMON STRUCTURE EXCAVATION _____ dollars and _____ cents per CY ($_____) per CY	$ _____
206.19	100 CY	COMMON STRUCTURE EXCAVATION (EXPLORATORY) _____ dollars and _____ cents per CY ($_____) per CY	$ _____
209.201	80 CY	GRANULAR BACKFILL (BRIDGE) _____ dollars and _____ cents per CY ($_____) per CY	$ _____
214.	1 UNIT	FINE GRADING _____ dollars and _____ cents per UNIT ($_____) per UNIT	$ _____
304.1	100 CY	SAND _____ dollars and _____ cents per CY ($_____) per CY	$ _____
304.2	970 CY	GRAVEL _____ dollars and _____ cents per CY ($_____) per CY	$ _____
304.3	720 CY	CRUSHED GRAVEL _____ dollars and _____ cents per CY ($_____) per CY	$ _____
304.4	400 CY	CRUSHED STONE (FINE GRADATION) _____ dollars and _____ cents per CY ($_____) per CY	$ _____

ITEM NO.	ESTIMATED QUANTITY	ITEM DESCRIPTION & UNIT PRICE (in both words and numerical)	ITEM PRICE (in numerals)
306.11	500 SY	RECLAIMED STABILIZED BASE PROCESSED IN PLACE, 10" DEEP _____ dollars and _____ cents per SY ($_____) per SY	$ _____
403.11	1,330 TON	HOT BITUMINOUS PAVEMENT, MACHINE METHOD _____ dollars and _____ cents per TON ($_____) per TON	$ _____
403.12	**55 TON**	HOT BITUMINOUS PAVEMENT, HAND METHOD _____ dollars and _____ cents per TON ($_____) per TON	$ _____
417.	3,750 SY	COLD PLANING BITUMINOUS SURFACES _____ dollars and _____ cents per SY ($_____) per SY	$ _____
502.	1 UNIT	REMOVAL OF EXISTING BRIDGE STRUCTURE _____ dollars and _____ cents per UNIT ($_____) per UNIT	$ _____
503.201	1 UNIT	COFFER DAMS _____ dollars and _____ cents per UNIT ($_____) per UNIT	$ _____
504.101	620 CY	COMMON BRIDGE EXCAVATION _____ dollars and _____ cents per CY ($_____) per CY	$ _____
508	10 CY	STRUCTURAL FILL _____ dollars and _____ cents per CY ($_____) per CY	$ _____

ITEM NO.	ESTIMATED QUANTITY	ITEM DESCRIPTION & UNIT PRICE (in both words and numerical)	ITEM PRICE (in numerals)
520.01	75 CY	CONCRETE CLASS AA _____ dollars and _____ cents per CY ($_____) per CY	$ _____
520.21	6 CY	CONCRETE CLASS B, FOOTINGS _____ dollars and _____ cents per CY ($_____) per CY	$ _____
534.3	27 GAL	WATER REPELLENT (SILANE-SILOXANE) _____ dollars and _____ cents per GAL ($_____) per GAL	$ _____
538.1	725 SY	BARRIER MEMBRANE _____ dollars and _____ cents per SY ($_____) per SY	$ _____
544.	400 LB	REINFORCING STEEL _____ dollars and _____ cents per LB ($_____) per LB	$ _____
544.2	13,000 LB	REINFORCING STEEL, EPOXY COATED _____ dollars and _____ cents per LB ($_____) per LB	$ _____
563.739	325 LF	BRIDGE RAIL (3-BAR) (ANODIZED) _____ dollars and _____ cents per LF ($_____) per LF	$ _____
565.739	75 LF	BRIDGE APPROACH RAIL (3-BAR) (ANODIZED) _____ dollars and _____ cents per LF ($_____) per LF	$ _____

ITEM NO.	ESTIMATED QUANTITY	ITEM DESCRIPTION & UNIT PRICE (in both words and numerical)	ITEM PRICE (in numerals)
570.101	1 LS	REPAIR SPAN 1 BRICK _____ dollars and _____ cents per LS ($_____) per LS	$ _____
570.401	25 CY	MORTAR RUBBLE MASONRY _____ dollars and _____ cents per CY ($_____) per CY	$ _____
571.101	**1,100 SF**	REPOINT STONE WORK _____ dollars and _____ cents per **SF** ($_____) per **SF**	$ _____
571.102	**3,000 SF**	REPOINT VAULT BRICK WORK _____ dollars and _____ cents per **SF** ($_____) per **SF**	$ _____
572.1	30 LF	RECONSTRUCTING STONE WALL ONE STONE WIDE _____ dollars and _____ cents per LF ($_____) per LF	$ _____
585.4	**15 CY**	**STONE FILL, CLASS D** **_____ dollars and** **_____ cents per CY** **($_____) per CY**	**$ _____**
593.421	**125 SY**	**GEOTEXTILE, PERMANENT CONTROL, CLASS 2, NON-WOVEN** **_____ dollars and** **_____ cents per SY** **($_____) per SY**	**$ _____**
603.00242	260 LF	42” R.C. PIPE, 2000D _____ dollars and _____ cents per LF ($_____) per LF	$ _____

ITEM NO.	ESTIMATED QUANTITY	ITEM DESCRIPTION & UNIT PRICE (in both words and numerical)	ITEM PRICE (in numerals)
603.83215	140 LF	15" PLASTIC PIPE, (SMOOTH INTERIOR) _____ dollars and _____ cents per LF ($_____) per LF	$ _____
604.0007	4 EA	POLYETHYLENE LINER _____ dollars and _____ cents per EA ($_____) per EA	$ _____
604.12	6 UNIT	CATCH BASINS TYPE B _____ dollars and _____ cents per UNIT ($_____) per UNIT	$ _____
604.326	2 UNIT	DRAINAGE MANHOLES, 6 FT DIAMETER _____ dollars and _____ cents per UNIT ($_____) per UNIT	$ _____
604.327	2 UNIT	DRAINAGE MANHOLES, 7 FT DIAMETER _____ dollars and _____ cents per UNIT ($_____) per UNIT	$ _____
604.4	2 LF	RECONSTRUCTING/ADJUSTING CATCH BASINS AND DROP INLETS _____ dollars and _____ cents per LF ($_____) per LF	$ _____
605.6	70 LF	VERTICAL AGGREGATE UNDERDRAINS _____ dollars and _____ cents per LF ($_____) per LF	$ _____
605.906	80 LF	6" UNDERDRAIN (CONTRACTOR'S OPTION) _____ dollars and _____ cents per LF ($_____) per LF	$ _____

ITEM NO.	ESTIMATED QUANTITY	ITEM DESCRIPTION & UNIT PRICE (in both words and numerical)	ITEM PRICE (in numerals)
606.417	100 LF	PORTABLE CONCRETE BARRIER FOR TRAFFIC CONTROL _____ dollars and _____ cents per LF ($_____) per LF	$ _____
606.4171	120 LF	PORTABLE CONCRETE BARRIER FOR TRAFFIC CONTROL (MOD.) _____ dollars and _____ cents per LF ($_____) per LF	$ _____
607.341	2 EA	BAR GATE _____ dollars and _____ cents per EA ($_____) per EA	$ _____
607.642	75 LF	CHAIN LINK FENCE w/ ALUMINUM COATED STEEL FABRIC, 4 FT HIGH _____ dollars and _____ cents per LF ($_____) per LF	$ _____
607.649	4 EA	POST ASSEMBLIES FOR CHAIN LINK FENCE, 4 FEET HIGH _____ dollars and _____ cents per EA ($_____) per EA	$ _____
608.12	60 SY	2” BITUMINOUS SIDEWALK _____ dollars and _____ cents per SY ($_____) per SY	$ _____
608.24	510 SY	4” CONCRETE SIDEWALK _____ dollars and _____ cents per SY ($_____) per SY	$ _____
608.26	150 SY	6” CONCRETE SIDEWALK _____ dollars and _____ cents per SY ($_____) per SY	$ _____

ITEM NO.	ESTIMATED QUANTITY	ITEM DESCRIPTION & UNIT PRICE (in both words and numerical)	ITEM PRICE (in numerals)
608.53	**9 SY**	DETECTABLE WARNING PANELS (SIDEWALK RAMPS) _____ dollars and _____ cents per SY ($_____) per SY	$ _____
609.01	800 LF	STRAIGHT GRANITE CURB _____ dollars and _____ cents per LF ($_____) per LF	$ _____
609.02	60 LF	CURVED GRANITE CURB _____ dollars and _____ cents per LF ($_____) per LF	$ _____
609.3	330 LF	STRAIGHT GRANITE CURB (BRIDGE) _____ dollars and _____ cents per LF ($_____) per LF	$ _____
609.811	110 LF	BITUMINOUS CURB, TYPE B (4" REVEAL) _____ dollars and _____ cents per LF ($_____) per LF	$ _____
611.05210	60 LF	10" CEMENT LINED DUCTILE IRON WATER PIPE, CLASS 52 _____ dollars and _____ cents per LF ($_____) per LF	$ _____
611.7	400 LB	DUCTILE IRON FITTINGS, MJ _____ dollars and _____ cents per LB ($_____) per LB	$ _____
611.70020	1 EA	20"x10" TAPPING SLEEVE _____ dollars and _____ cents per EA ($_____) per EA	$ _____

ITEM NO.	ESTIMATED QUANTITY	ITEM DESCRIPTION & UNIT PRICE (in both words and numerical)	ITEM PRICE (in numerals)
611.71010	2 EA	10" GATE VALVE, MJ _____ dollars and _____ cents per EA ($_____) per EA	$ _____
615.004	3 UNIT	RELOCATING TRAFFIC SIGN _____ dollars and _____ cents per EA ($_____) per EA	$ _____
615.03	105 SF	TRAFFIC SIGN TYPE C _____ dollars and _____ cents per EA ($_____) per EA	$ _____
616.161	1 UNIT	TEMPORARY TRAFFIC SIGNALS _____ dollars and _____ cents per UNIT ($_____) per UNIT	$ _____
616.191	1 UNIT	ALTERATIONS TO TRAFFIC SIGNALS _____ dollars and _____ cents per UNIT ($_____) per UNIT	$ _____
616.65	5 EA	TRAFFIC SIGNAL DETECTOR LOOP 6 FT X 50 FT _____ dollars and _____ cents per EA ($_____) per EA	$ _____
618.61	ALLOWANCE	UNIFORMED OFFICERS WITH VEHICLE	$ 50,000
618.7	800 HR	FLAGGERS _____ dollars and _____ cents per HR ($_____) per HR	$ _____

ITEM NO.	ESTIMATED QUANTITY	ITEM DESCRIPTION & UNIT PRICE (in both words and numerical)	ITEM PRICE (in numerals)
618.71	130 HR	CROSSING GUARDS _____ dollars and _____ cents per HR ($_____) per HR	$ _____
619.1	1 UNIT	MAINTENANCE OF TRAFFIC _____ dollars and _____ cents per UNIT ($_____) per UNIT	$ _____
619.12	1 LS	PUBLIC RELATIONS OFFICER _____ dollars and _____ cents per LS ($_____) per LS	$ _____
619.251	2 UNIT	PORTABLE CHANGEABLE MESSAGE SIGN (MODIFIED) _____ dollars and _____ cents per UNIT ($_____) per UNIT	$ _____
628.1	100 LF	SAWED CONCRETE PAVEMENT _____ dollars and _____ cents per LF ($_____) per LF	$ _____
628.2	500 LF	SAWED BITUMINOUS PAVEMENT _____ dollars and _____ cents per LF ($_____) per LF	$ _____
632.0104	8,800 LF	RETROREFLECTIVE PAINT PAVE. MARKING, 4” LINE _____ dollars and _____ cents per LF ($_____) per LF	$ _____
632.3106	1,100 LF	RETROREFLECTIVE THERMO PAVE. MARKING, 6” LINE _____ dollars and _____ cents per LF ($_____) per LF	$ _____

ITEM NO.	ESTIMATED QUANTITY	ITEM DESCRIPTION & UNIT PRICE (in both words and numerical)	ITEM PRICE (in numerals)
632.3112	1,200 LF	RETROREFLECTIVE THERMO PAVE. MARKING, 12" LINE _____ dollars and _____ cents per LF ($_____) per LF	$ _____
632.32	160 SF	RETROREFLECTIVE THERMO PAVE. MARKING, SYMB. OR WORD _____ dollars and _____ cents per SF ($_____) per SF	$ _____
632.9104	1,100 LF	OBLITERATE PAVEMENT MARKING, 4" LINE _____ dollars and _____ cents per LF ($_____) per LF	$ _____
632.92	50 SF	OBLITERATE PAVEMENT MARKING, SYMBOL OR WORD _____ dollars and _____ cents per CY ($_____) per CY	$ _____
641	70 CY	LOAM _____ dollars and _____ cents per CY ($_____) per CY	$ _____
643.21	100 LB	FERTILIZER FOR REFERTILIZATION _____ dollars and _____ cents per LB ($_____) per LB	$ _____
645.7	1 UNIT	STORMWATER POLLUTION PREVENTION PLAN _____ dollars and _____ cents per UNIT ($_____) per UNIT	$ _____
645.71	40 HR	MONIT. SWPPP AND EROSION AND SEDIMENT CONTROL _____ dollars and _____ cents per HR ($_____) per HR	$ _____

ITEM NO.	ESTIMATED QUANTITY	ITEM DESCRIPTION & UNIT PRICE (in both words and numerical)	ITEM PRICE (in numerals)
646.31	650 SY	TURF ESTABLISHMENT WITH MULCH, TACKIFIERS _____ dollars and _____cents per SY ($_____) per SY	$ _____
661.7	510 LF	STEEL ORNAMENTAL PICKET FENCE, 48" HIGH _____ dollars and _____cents per LF ($_____) per LF	$ _____
670.201	1 LS	INSTALL REPAIR CENTRING (SHORING ARCH) _____ dollars and _____ cents per LS ($_____) per LS	$ _____
692.	1 UNIT	MOBILIZATION _____ dollars and _____ cents per UNIT ($_____) per UNIT	$ _____
698.13	4 MON	FIELD OFFICE TYPE C _____ dollars and _____ cents per MON ($_____) per MON	$ _____
698.2	2 MON	PHYSICAL TESTING LABORATORY _____ dollars and _____ cents per MON ($_____) per MON	$ _____
699.	ALLOWANCE	MISCELLANEOUS TEMPORARY EROSION AND SEDIMENT CONTROL	$ 5,000.00
1002.1	ALLOWANCE	REPAIRS AND REPLACEMENTS AS NEEDED	$ 5,000.00

TOTAL BID PRICE FOR BASE BID :

_____ dollars and $ _____
_____ cents

ADDITIVE ALTERNATE BID

ITEM NO.	ESTIMATED QUANTITY	ITEM DESCRIPTION & UNIT PRICE (in both words and numerical)	ITEM PRICE (in numerals)
203.1	150 CY	COMMON EXCAVATION _____ dollars and _____ cents per CY ($_____) per CY	$ _____
306.11	1,500 SY	RECLAIMED STABILIZED BASE PROCESSED IN PLACE, 10" DEEP _____ dollars and _____ cents per SY ($_____) per SY	$ _____
403.11	365 TON	HOT BITUMINOUS PAVEMENT, MACHINE METHOD _____ dollars and _____ cents per TON ($_____) per TON	$ _____
618.7	300 HR	FLAGGERS _____ dollars and _____ cents per HR ($_____) per HR	$ _____
628.2	100 LF	SAWED BITUMINOUS PAVEMENT _____ dollars and _____ cents per LF ($_____) per LF	$ _____

TOTAL BID PRICE FOR ADDITIVE ALTERNATE BID :

_____ dollars and $ _____
_____ cents

TOTAL BID PRICE FOR BASE BID:

_____ dollars and $ _____
_____ cents

TOTAL BID PRICE FOR ADDITIVE ALTERNATE BID:

_____ dollars and $ _____
_____ cents

TOTAL BID PRICE FOR ALL ROADWAY AND BRIDGE IMPROVEMENT (BASE BID PLUS ADDITIVE ALTERNATE BID):

_____ dollars and $ _____
_____ cents

It is agreed that the total price calculated above is to be used solely for the comparison of bids to determine the apparent low bidder.

The undersigned as bidder understands and agrees that the quantities of work as given for each item, except lump sum items, in this proposal are only approximate and are assumed solely for the comparison of proposals. They are not guaranteed to be accurate statements of estimates of the quantities of work to be performed under this Contract, and any departure therefrom will not be accepted as valid grounds for any claim for loss of profits.

In case of variation between unit prices and total prices stated by the bidder, the unit prices will be considered to be his bid.

The undersigned further agrees to comply with the requirements as to conditions of employment, wage rates and hours of labor set forth in the Contract Documents.

The undersigned hereby agrees to reach the North Main Street Bridge re-opening, substantial completion, and final completion of all the work, shown or specified under this Contract and as shown on the Contract Drawings as follows:

North Main Bridge Re-Opening DATE is **August 14, 2010**.

Substantial Completion DATE is **October 15, 2010**.

Final DATE of completion of the project is **June 15, 2011**.

And CONTRACTOR may be subject to liquidated damages, as described in this Contract, for failure to meet the project completion dates stipulated above.

The undersigned agrees that, if they are selected as CONTRACTOR, they will, within five (5) days after the award, execute a Contract in the form attached hereto and furnish a performance bond and also a labor and materials or payment bond, each of a surety company qualified to do business under the laws of New Hampshire and satisfactory to the Awarding authority and each in the sum of one hundred percent (100%) of the Contract price, the premiums for which are to be paid by the CONTRACTOR and are included in the various unit prices bid.

The bid security attached in the amount of ten percent (10%) of the bid, shall be in the form of a bid bond or treasurer's check or cashier's check and is to become the property of the OWNER in the event the Contract and bond are not executed within the time set forth, as liquidated damages for the delay and additional expense to the OWNER caused thereby.

The undersigned understands that the OWNER reserves the right to reject any or all bids and to waive any informalities in the bidding.

The undersigned agrees that this bid shall be good and may not be withdrawn for a period of ninety (90) calendar days after the scheduled closing time for receiving bids.

This proposal includes Addendum Nos. _____

_____
Contractor (Bidder) (Seal)

_____
(Signature and Title)

Address _____

_____

Being a (corporation incorporated)
(under the laws of the)
(State of _____)
(Partnership)
(Individual)

Composed of Officers,
partners, or owner, as
follows:

_____

_____

_____

ITEM	DESCRIPTION	UNIT	X-A000(923) 14019	NON PART	TOTAL
201.21	REMOVING SMALL TREES	EA	2	-	2
202.41	REMOVAL OF EXISTING PIPE 0-24" DIAMETER	LF	150	-	150
202.5	REMOVAL OF CATCH BASINS, DROP INLETS, AND MANHOLES	EA	2	-	2
202.6	CURB REMOVAL FOR STORAGE	LF	150	60	210
203.1	COMMON EXCAVATION	CY	1,800	120	1,920
203.2	ROCK EXCAVATION	CY	45	25	70
203.6	EMBANKMENT-IN-PLACE	CY	20	-	20
206.1	COMMON STRUCTURE EXCAVATION	CY	200	-	200
206.19	COMMON STRUCTURE EXCAVATION (EXPLORATORY)	CY	100	-	100
209.201	GRANULAR BACKFILL (BRIDGE)	CY	80	-	80
214	FINE GRADING	U	1	-	1
304.1	SAND	CY	100	-	100
304.2	GRAVEL	CY	950	20	970
304.3	CRUSHED GRAVEL	CY	640	80	720
304.4	CRUSHED STONE (FINE GRADATION)	CY	400	-	400
306.11	RECLAIMED STABILIZED BASE PROCESSED IN PLACE, 10" DEEP	SY	0	500	500
403.11	HOT BITUMINOUS PAVEMENT, MACHINE METHOD	TON	1,200	130	1,330
403.12	HOT BITUMINOUS PAVEMENT, HAND METHOD	TON	20	35	55
417	COLD PLANING BITUMINOUS SURFACES	SY	3,500	250	3,750
502	REMOVAL OF EXISTING BRIDGE STRUCTURE	U	1	-	1
503.201	COFFERDAMS	U	1	-	1
504.101	COMMON BRIDGE EXCAVATION	CY	620	-	620
508	STRUCTURAL FILL	CY	10	-	10
520.01	CONCRETE CLASS AA	CY	75	-	75
520.21	CONCRETE CLASS B, FOOTINGS	CY	6	-	6
534.3	WATER REPELLENT (SILANE-SILOXANE)	GAL	27	-	27
538.1	BARRIER MEMBRANE	SY	725	-	725
544	REINFORCING STEEL	LB	400	-	400
544.2	REINFORCING STEEL, EPOXY COATED	LB	13,000	-	13,000
563.739	BRIDGE RAIL F (3-BAR) (ANODIZED)	LF	325	-	325
565.739	BRIDGE APPROACH RAIL (3-BAR) (ANODIZED)	LF	75	-	75
570.101	REPAIR SPAN 1 BRICK	LS	1	-	1
570.401	MORTAR RUBBLE MASONRY	CY	25	-	25
571.101	REPOINT STONE WORK	SF	1,100	-	1,100
571.102	REPOINT VAULT BRICKWORK	SF	3,000	-	3,000
572.1	RECONSTRUCTING STONE WALL ONE STONE WIDE	LF	30	-	30
585.4	STONE FILL, CLASS D	CY	15	-	15
593.421	GEOTEXTILE, PERMANENT CONTROL, CLASS 2, NON-WOVEN	SY	125	-	125
603.00242	42" R.C. PIPE, 2000D	LF	260	-	260
603.83215	15" PLASTIC PIPE (SMOOTH INTERIOR)	LF	140	-	140
604.0007	POLYETHYLENE LINER	EA	4	-	4
604.12	CATCH BASINS TYPE B	U	6	-	6
604.326	DRAINAGE MANHOLES, 6-FOOT DIAMETER	U	2	-	2
604.327	DRAINAGE MANHOLES, 7-FOOT DIAMETER	U	2	-	2
604.4	RECONSTRUCTING/ADJUSTING CATCH BASINS AND DROP INLETS	LF	0	2	2
605.6	VERTICAL AGGREGATE UNDERDRAINS	LF	70	-	70
605.906	6" UNDERDRAIN (CONTRACTORS OPTION)	LF	80	-	80
606.417	PORTABLE CONCRETE BARRIER FOR TRAFFIC CONTROL	LF	100	-	100
606.4171	PORTABLE CONCRETE BARRIER FOR TRAFFIC CONTROL (MOD.)	LF	120	-	120
607.341	BAR GATE	EA	0	2	2
607.642	CHAIN LINK FENCE WITH ALUMINUM COATED STEEL FABRIC, 4 FEET HIGH	LF	0	75	75
607.649	POST ASSEMBLIES FOR CHAIN LINK FENCE, 4 FEET HIGH	EA	0	4	4
608.12	2" BITUMINOUS SIDEWALK	SY	60	-	60
608.24	4" CONCRETE SIDEWALK	SY	350	160	510
608.26	6" CONCRETE SIDEWALK	SY	150	-	150
608.53	DETECTABLE WARNING PANELS (SIDEWALK RAMPS)	SY	8	1	9
609.01	STRAIGHT GRANITE CURB	LF	500	300	800
609.02	CURVED GRANITE CURB	LF	30	30	60
609.3	STRAIGHT GRANITE CURB (BRIDGE)	LF	330	-	330
609.811	BITUMINOUS CURB, TYPE B (4" REVEAL)	LF	110	-	110
611.0521	10" CEMENT LINED DUCTILE IRON WATER PIPE, CLASS 52	LF	0	60	60
611.7	DUCTILE IRON FITTINGS, MJ	LB	0	400	400
611.7002	20" X 10" TAPPING SLEEVE	EA	0	1	1
611.7101	10" GATE VALVE, MJ	EA	0	2	2
615.004	RELOCATING TRAFFIC SIGN	U	3	-	3
615.03	TRAFFIC SIGN TYPE C	SF	90	15	105
616.161	TEMPORARY TRAFFIC SIGNALS	U	1	-	1
616.191	ALTERATIONS TO TRAFFIC SIGNALS	U	1	-	1
616.65	TRAFFIC SIGNAL DETECTOR LOOP 6 FT. X 50 FT	EA	5	-	5
618.61	UNIFORMED OFFICERS WITH VEHICLE	$	1	-	1
618.7	FLAGGERS	HR	700	100	800
618.71	CROSSING GUARDS	HR	130	-	130
619.1	MAINTENANCE OF TRAFFIC	U	1	-	1
619.12	PUBLIC RELATIONS OFFICER	LS	1	-	1
619.251	PORTABLE CHANGEABLE MESSAGE SIGN (MOD.)	U	2	-	2
628.1	SAWED CONCRETE PAVEMENT	LF	50	50	100
628.2	SAWED BITUMINOUS PAVEMENT	LF	350	150	500
632.0104	RETROREFLECTIVE PAINT PAVE. MARKING, 4" LINE	LF	8,800	-	8,800
632.3106	RETROREFLECTIVE THERMOPLASTIC PAVE. MARKING, 6" LINE	LF	1,100	-	1,100
632.3112	RETROREFLECTIVE THERMOPLASTIC PAVE. MARKING, 12" LINE	LF	1,200	-	1,200
632.32	RETROREFLECTIVE THERMOPLASTIC PAVE. MARKING, SYMBOL OR WORD	SF	160	-	160
632.9104	OBLITERATE PAVEMENT MARKING, 4" LINE	LF	1,100	-	1,100
632.92	OBLITERATE PAVEMENT MARKING, SYMBOL OR WORD	SF	50	-	50
641	LOAM	CY	60	10	70
643.21	FERTILIZER FOR REFERTILIZATION	LB	75	25	100
645.7	STORM WATER POLLUTION PREVENTION PLAN	U	1	-	1
645.71	MONITORING SWPPP AND EROSION AND SEDIMENT CONTROL	HR	40	-	40
646.31	TURF ESTABLISHMENT WITH MULCH AND TACKIFIERS	SY	500	150	650
661.7	STEEL ORNAMENTAL PICKET FENCE, 48" HIGH	LF	510	-	510
670.201	INSTALL REPAIR CENTRING (SHORING ARCH)	LS	1	-	1
692	MOBILIZATION	U	1	-	1
698.13	FIELD OFFICE, TYPE C	MON	4	-	4
698.2	PHYSICAL TESTING LABORATORY	MON	2	-	2

ITEM	DESCRIPTION	UNIT	X-A000(923) 14019	NON PART	TOTAL
	ALTERNATIVE #1 BID ITEMS				
203.1	COMMON EXCAVATION	CY	0	150	150
306.11	RECLAIMED STABILIZED BASE PROCESSED IN PLACE, 10" DEEP	SY	0	1,500	1,500
403.11	HOT BITUMINOUS PAVEMENT, MACHINE METHOD	TON	0	365	365
618.7	FLAGGERS	HR	0	300	300
628.2	SAWED BITUMINOUS PAVEMENT	LF	0	100	100

⚠1

GENERAL CONSTRUCTION NOTES

1. ALL CONSTRUCTION MATERIALS AND METHODS SHALL CONFORM TO THE REQUIREMENTS IN THE LATEST EDITION OF THE FOLLOWING STANDARDS AND REGULATIONS (IF CONFLICTING REQUIREMENTS ARE FOUND, THEN THE MORE STRINGENT GOVERNS):
   - A. NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED 2006.
   - B. NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES (NHDES) ADMINISTRATIVE RULES AND STANDARDS
   - C. USDOT-FHWA's "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES"
   - D. ALL APPLICABLE INTERNATIONAL AND NATIONAL CODES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL APPLICABLE CONSTRUCTION PERMITS, PRIOR TO CONSTRUCTION, FROM NHDES, USEPA, UTILITY COMPANIES, AND OTHER REGULATORY AGENCIES. ALL AGENCIES SHALL BE NOTIFIED AS REQUIRED PRIOR THE START OF CONSTRUCTION.
3. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES IN SUCH A MANNER AS TO CAUSE A MINIMUM OF INCONVENIENCE TO THE PUBLIC, AND MINIMIZE INTERFERENCE WITH NORMAL OPERATIONS OF THE ADJACENT BUILDINGS.
4. THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH LOCAL AUTHORITIES, OTHER CONTRACTORS AND AGENCIES WORKING WITHIN THE PROJECT LIMITS IN ORDER TO MINIMIZE DISRUPTIONS.
5. THE CONTRACTOR SHALL INSPECT THE SITE PRIOR TO CONSTRUCTION TO BE AWARE OF ALL FIELD CONDITIONS AND SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES WITH THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL CONTACT "DIG SAFE" (1-888-DIG-SAFE or 1-888-344-7233) AT LEAST 3 WORKING DAYS (72 HOURS) PRIOR TO ANY CONSTRUCTION ACTIVITY FOR UTILITY MARKOUTS.
6. THE INFORMATION SHOWN ON THE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING HIS OWN DETERMINATIONS AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. DAMAGE TO EXISTING UTILITIES CAUSED BY THE CONTRACTOR'S OPERATIONS SHALL BE IMMEDIATELY REPAIRED BY THE CONTRACTOR WITH ALL ADDITIONAL COST BORNE BY THE CONTRACTOR, AND TO THE SATISFACTION OF THE ENGINEER AND/OR CITY. DAMAGED UTILITIES SHALL NOT BE LEFT OVERNIGHT.
7. THE SUBSURFACE INFORMATION, AS PROVIDED, WAS OBTAINED FOR DESIGN PURPOSES AND MAY NOT BE A COMPLETE REPRESENTATION OF ACTUAL CONDITIONS FOR THE PROJECT CONSTRUCTION. RISKS RESULTING FROM USE OR INTERPRETATION OF THE INFORMATION RELEVANT TO UNDERGROUND UTILITIES AND SOIL ELEVATIONS SHALL BE BORNE BY THE CONTRACTOR.
8. ALL TRENCHES OR HOLE OPENINGS WILL BE PROTECTED AGAINST CAVING IN EITHER BY SUITABLE SHORING, CAGES/BOXES, OR PROPER SLOPING AS DESCRIBED IN ALL APPLICABLE OSHA STANDARDS. ALL SHORING DEEMED TO BE NECESSARY SHALL BE DESIGNED AND SEALED BY A REGISTERED ENGINEER AND SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.
9. CONSTRUCTION CREWS SHALL PROVIDE FLAGMEN, WARNING SIGNS, AND BARRICADES IN COMPLIANCE WITH THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) ISSUED BY THE UNITED STATES DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION, ISSUE OF 1983 OR ANY LATER REVISED EDITION, AND SHALL FOLLOW ALL OF THE REQUIREMENTS OF NHDOT.
10. ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS" AND THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD).
11. THE CONTRACTOR SHALL MAINTAIN TRAFFIC AND PROTECT THE PUBLIC FROM DAMAGE TO PERSONS AND PROPERTY WITHIN THE CONSTRUCTION LIMITS FOR THE DURATION OF THE CONTRACT AND SHALL COORDINATE ON-SITE TRAFFIC WITH THE CITY AS NECESSARY.
12. BEFORE ANY REMOVALS, THE CONTRACTOR MUST ENSURE ALL EXISTING ADJACENT COMPONENTS ARE ADEQUATELY SHORED. IF ANY UNFORESEEN CONDITIONS ARE ENCOUNTERED WHICH REQUIRE DEVIATION FROM THE CONTRACT DRAWINGS AND SPECIFICATIONS, THE CONTRACTOR WILL CONTACT THE ENGINEER.
13. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR TO ORIGINAL CONDITION, ANY AND ALL DAMAGE TO BUILDINGS, PAVEMENT AREAS, EQUIPMENT AND FURNISHINGS CAUSED DURING PERFORMANCE OF WORK COVERED BY THIS CONTRACT. PROPERTY IRONS, SIGNS, MAIL BOXES, OR FENCES REMOVED OR DESTROYED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER AND/OR CITY.
14. ALL EXCAVATED SOIL DEEMED UNSUITABLE FOR RE-USE ON SITE SHALL BECOME THE PROPERTY OF THE CONTRACTOR. THE CONTRACTOR WILL PLACE MATERIAL IN AREAS APPROVED BY THE ENGINEER AND THE OWNER. EXCAVATED MATERIALS SHALL BE GRADED AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.
15. ALL WASTE MATERIALS, DEBRIS, AND RUBBISH SHALL BE HAULED DISPOSED OF BY THE CONTRACTOR AT AN OFF-SITE LOCATION. PRIOR TO DISPOSAL ON ANY OFF-SITE AREAS, A LETTER ALLOWING SUCH DISPOSAL MUST BE OBTAINED FROM THE PROPERTY OWNER AND THE LOCATION MUST BE APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FOR DISPOSAL AREAS.
16. POWER BROOM, VACUUM TRUCK, AND WATER TRUCK WILL BE REQUIRED TO KEEP ALL SURFACES UTILIZED BY VEHICLES CONTINUOUSLY FREE OF DEBRIS. WHERE REQUIRED, WET DOWN SURFACES TO LAY DUST AND PREVENT THE BLOWING OF DUST.
17. THE CONTRACTOR SHALL KEEP THE PROJECT AREA CLEAN AND FREE OF DUST AND DEBRIS RESULTING FROM HIS OWN OPERATIONS. DAILY CLEANUP THROUGHOUT THE JOB SITE WILL BE NECESSARY AS THE CONTRACTOR PROGRESSES WITH HIS WORK, BUT EXTRA PRECAUTIONS IN CLEANUP WILL BE MADE PRIOR TO WEEKENDS AND HOLIDAYS OR STOPPAGE OF WORK.
18. AT COMPLETION OF WORK, THE CONTRACTOR SHALL REMOVE ALL WASTE MATERIALS, TOOLS, EQUIPMENT, MACHINERY, AND SURPLUS MATERIALS AND CLEAN ALL EXPOSED SURFACES. PROPERTY AND ALL RIGHT-OF-WAYS SHALL BE LEFT IN A CONDITION EQUAL TO THAT AT THE BEGINNING OF WORK OR AS SPECIFIED IN THE PLANS.
19. PRIOR TO BEGINNING ANY WORK ON A UTILITY LINE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING AND RENDERING THE REQUIRED NOTICE (i.e. AT LEAST 72 HOURS) TO ALL PUBLIC/PRIVATE UTILITIES (i.e. WATER, SEWER, ELECTRIC, DATA/TELEPHONE, ETC.), AND TO ALL OTHER LOCAL, STATE OR FEDERAL AGENCIES, AS WELL AS TO THE OWNER OF MUNICIPAL AND PRIVATE UTILITIES. NO WORK SHALL COMMENCE UNTIL THE PUBLIC/PRIVATE UTILITIES PROVIDE PROPER AUTHORIZATION.
20. THE ENGINEER SHALL BE NOTIFIED PRIOR TO CONSTRUCTION IF THERE ARE ANY DISCREPANCIES IN PLANS OR EXISTING DATA. WORK SHALL NOT PROCEED WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.
21. THE CONTRACTOR SHALL COORDINATE ALL UTILITY CONSTRUCTION WITH OTHER UTILITY COMPANIES AS REQUIRED TO ALLOW FOR A COMPLETE INSTALLATION. AFFECTED RESIDENCES OR BUSINESSES SHALL RECEIVE 72 HOURS NOTICE PRIOR TO ANY WATER SHUTDOWNS.
22. NO EXISTING MONUMENTS, BOUNDS OR BENCHMARKS SHALL BE DISTURBED WITHOUT FIRST MAKING PROVISIONS FOR RELOCATION.
23. ALL WORK SHALL BE PERFORMED WITHIN THE EXISTING RIGHT-OF-WAY UNLESS OTHERWISE SHOWN ON THE PLANS OR AS APPROVED BY THE ENGINEER.
24. SURVEY DATA FOR THIS PROJECT WAS COLLECTED BY VERMONT SURVEYING AND ENGINEERS. HORIZONTAL DATUM IS NAD 1983 (CORS 1996) AND VERTICAL DATUM NAVD 88.
25. EXISTING CONDITION INFORMATION IS BASED UPON THE BEST INFORMATION AVAILABLE AND NOT WARRANTED TO BE COMPLETE OR EXACT. ALL UNDERGROUND UTILITY TYPES AND LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR BASED ON ACTUAL FIELD CONDITIONS PRIOR TO CONSTRUCTION.
26. DIMENSIONS, ANGLES, BEARINGS AND ELEVATIONS SHOWN ON THESE CONTRACT PLANS HAVE BEEN OBTAINED FROM EXISTING PLANS, LIMITED FIELD INVESTIGATIONS, AND SURVEY AND MAY NOT ACCURATELY REFLECT ACTUAL FIELD CONDITIONS. ACCORDINGLY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING FIELD MEASUREMENTS OF ALL EXISTING STRUCTURE COMPONENTS IMPACTED BY THE NEW WORK TO ASSURE CONSISTENCY WITH THE PROPOSED MODIFICATIONS. ANY DISCREPANCIES IN DIMENSIONS, CHARACTER OR EXTENT OF THE EXISTING FEATURES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE ADVANCING THE WORK. SHOP DRAWINGS REQUIRED FOR VARIOUS ITEMS OF THE WORK SHALL INDICATE THE ACTUAL FIELD MEASUREMENTS AND SHALL BE AS NOTED.
27. THE CONTRACTOR SHALL TAKE SPECIAL CARE TO ENSURE THAT NO DEBRIS FALLS INTO THE COCHECO RIVER DURING CONSTRUCTION OPERATIONS. THE ERECTION, MAINTENANCE AND REMOVAL OF TEMPORARY STRUCTURES OR OTHER METHODS TO PREVENT DEBRIS FROM FALLING IN THE RIVER AND THE CONTRACTOR'S METHOD OF REMOVAL SHALL BE SUBMITTED IN ACCORDANCE WITH SECTION 105.02. ALL COSTS SHALL BE SUBSIDIARY TO ITEM 502.
28. REMOVAL OF THE EXISTING BRIDGE RAILS SHALL BE PAID UNDER ITEM 502.
29. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION.
30. SEE SHEET 35 FOR TEMPORARY SUPPORT SYSTEM NOTES.
31. WATER LEVEL MAY VARY FROM THAT SHOWN.
32. EXISTING CATCH BASIN FRAMES AND GRATES AND FENCING MATERIAL REMOVED AS PART OF THIS PROJECT SHALL BE SALVAGED TO THE CITY.
33. CONTRACTOR SHALL COORDINATE WITH BUSINESS OWNERS AND CITY OF ROCHESTER MAIN STREET ORGANIZATION ON FABRICATION AND ERECTION OF BUSINESS SIGNAGE. WORK TO BE PAID UNDER ITEM 615.03.

McFarland Johnson

CITY OF ROCHESTER, NH
DEPARTMENT OF PUBLIC WORKS

TOWN ROCHESTER BRIDGE NO. 127/106 PROJECT 14019

LOCATION NORTH MAIN STREET OVER THE COCHECO RIVER

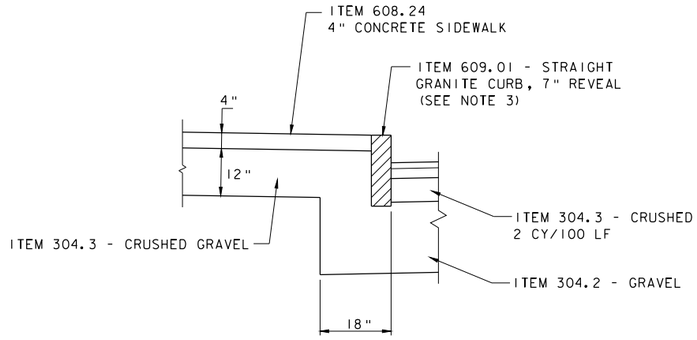
QUANTITIES AND CONSTRUCTION NOTES

BRIDGE SHEET OF

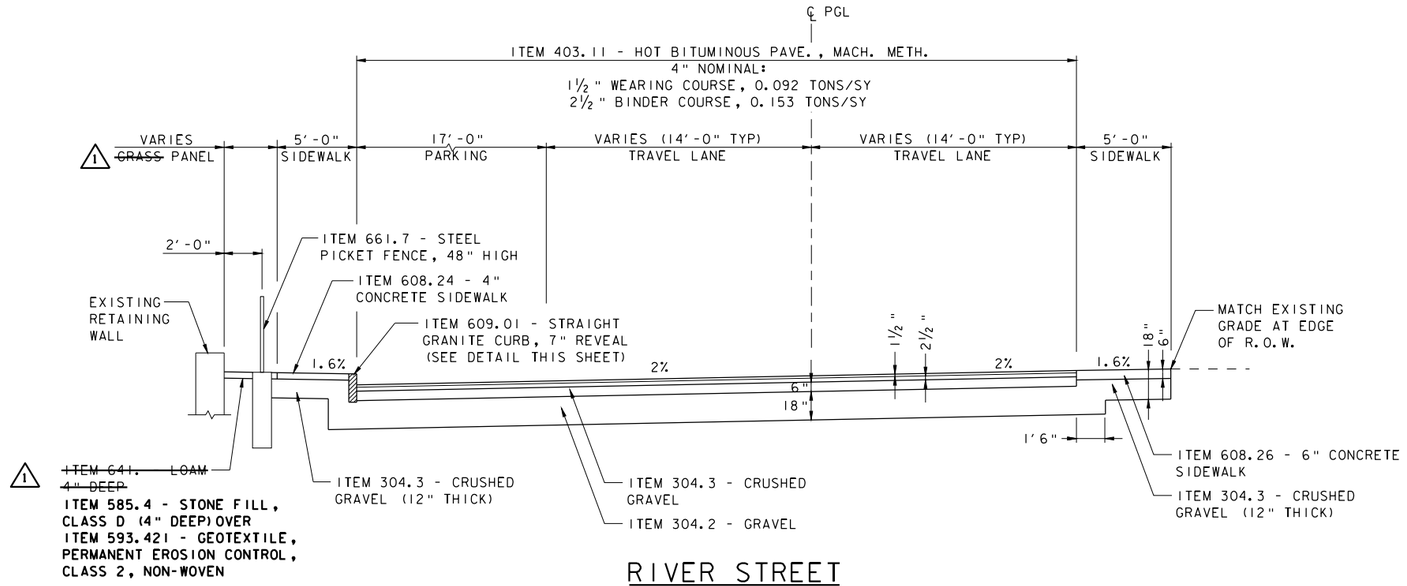
	REVISIONS AFTER PROPOSAL		BY	DATE	BY	DATE
1	ADDENDUM 1	BRC	DESIGNED DMB/JCH		CHECKED RLJ	
			DRAWN		CHECKED	
			QUANTITIES		CHECKED	
			ISSUE DATE		FEDERAL PROJECT NO.	SHEET NO. / TOTAL SHEETS
			REV. DATE		X-A000 (923)	2A / 48

FILE NUMBER

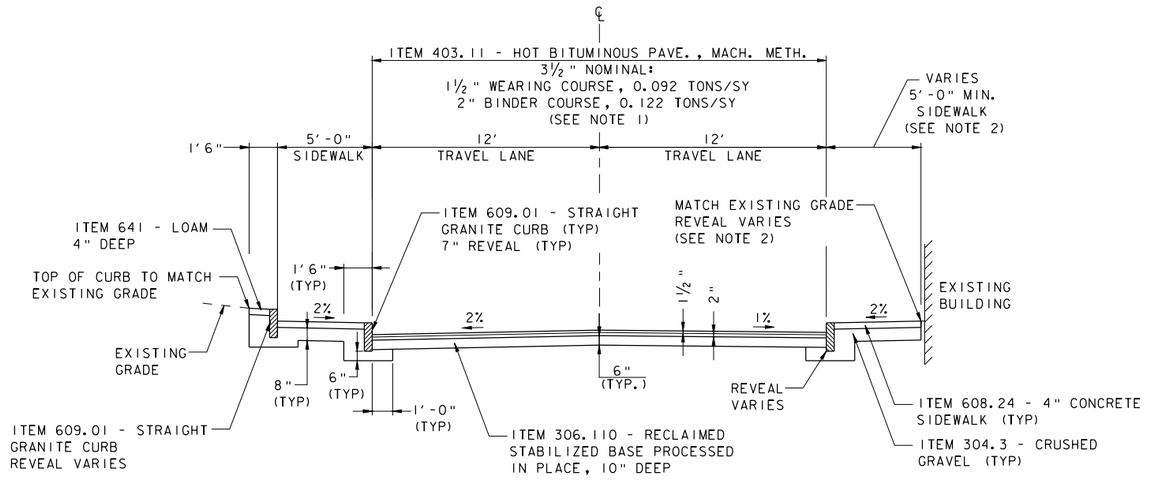
PLOTTED 26-FEB-2010



STRAIGHT GRANITE CURB DETAIL
RIVER STREET
STA 20+00.00 TO STA 23+50.00, LT



RIVER STREET
STA 20+00.00 TO STA 23+50.00



RIVER STREET
STA 26+87.00 TO STA 28+41.00

NOTES:

1. STA 28+41.00 TO STA 28+74.00 - PRIOR TO APPLICATION OF THE 1½" WEARING COURSE, THE CONTRACTOR SHALL UTILIZE ITEM 417. - COLD PLANING BITUMINOUS SURFACES (1 ½" DEEP). SEE GENERAL PLANS FOR ALL LOCATIONS.
2. WHEN NECESSARY, THE SIDEWALK SHALL MATCH EXISTING GRADE AT LIMITS OF RIGHT-OF-WAY.
3. **SEE SHEET 13 FOR STA 23+50 TO STA 26+87 (ADDITIVE ALTERNATE #1)**

CITY OF ROCHESTER, NH
DEPARTMENT OF PUBLIC WORKS

TOWN ROCHESTER BRIDGE NO. 127/106 PROJECT 14019

LOCATION NORTH MAIN STREET OVER THE COCHECO RIVER

ROADWAY TYPICAL SECTIONS (2 OF 2)

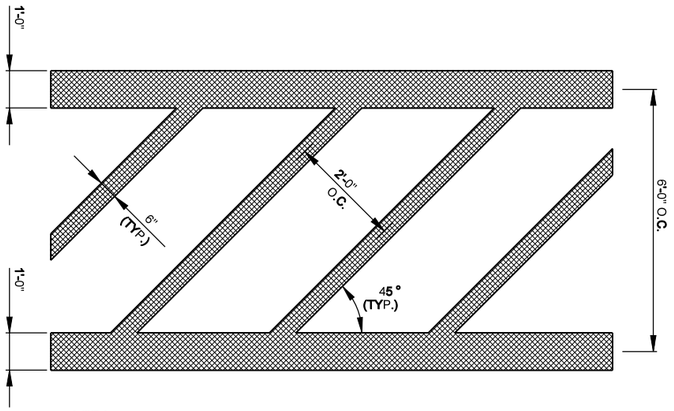
BRIDGE SHEET OF

	REVISIONS AFTER PROPOSAL		BY	DATE		BY	DATE
1	ADDENDUM 1	BRC	DESIGNED MJ	4/09	CHECKED	BRC	10/09
			DRAWN MJ	4/09	CHECKED	BRC	10/09
			QUANTITIES		CHECKED		
			ISSUE DATE		FEDERAL PROJECT NO.	SHEET NO.	TOTAL SHEETS
			REV. DATE		X-A000 (923)	4A	48

FILE NUMBER

McFarland Johnson

PLOTTED 26-FEB-2010

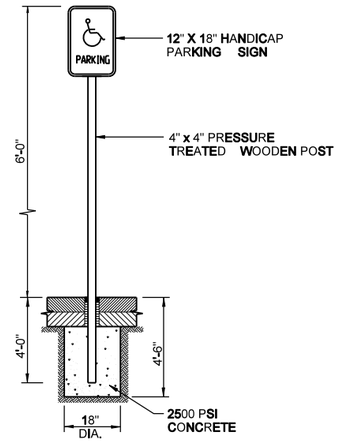


NOTES:

1. ALL CROSSWALK MARKINGS SHALL BE RETROREFECTIVE THERMOPLASTIC PAVEMENT MARKINGS (WHITE)AND SHALL CONFORM TO THE LATEST EDITION OF MUTCD.
2. CROSSWALK LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

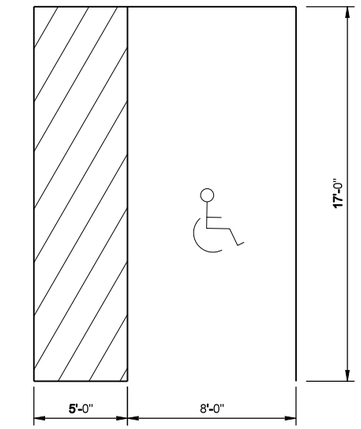
CROSSWALK MARKINGS

NOT TO SCALE



HANDICAP PARKING SIGN

NOT TO SCALE



NOTES:

1. ALL HANDICAP PARKING SPACE MARKINGS SHALL BE RETROREFLECTIVE WHITE PAINT.
2. THE HANDICAP SYMBOL SHALL BE RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKING (WHITE).

HANDICAP PARKING DETAIL

NOT TO SCALE

CITY OF ROCHESTER, NH
DEPARTMENT OF PUBLIC WORKS

TOWN ROCHESTER BRIDGE NO. 127/106 PROJECT 14019

LOCATION NORTH MAIN STREET OVER THE COCHECO RIVER

MISCELLANEOUS DETAILS (2 OF 2)

BRIDGE SHEET OF

	REVISIONS AFTER PROPOSAL		BY	DATE		BY	DATE
1	ADDENDUM 1	BRC	DESIGNED MJ		CHECKED	BRC	
			DRAWN MJ		CHECKED	BRC	
			QUANTITIES		CHECKED		
			ISSUE DATE		FEDERAL PROJECT NO.	SHEET NO.	TOTAL SHEETS
			REV. DATE		X-A000 (923)	8A	48

FILE NUMBER

McFarland Johnson

PLOTTED 26-FEB-2010

DRAINAGE NOTES

(1) STA 116+75.0, RT 20.3 TO STA 116+75.0, LT 20.3
CONSTRUCT 41 FT X 15 IN PLASTIC DRAINAGE PIPE
(SMOOTH INTERIOR)
CONSTRUCT CB-B @ STA 116+75.0, LT 20.3
15 IN INV. OUT = 221.57
CORE 15 IN HOLE AND PLUG FOR FUTURE CONNECTION
(SUBSIDIARY) INV. = 221.77
GRATE ELEV. = 229.13

(2) STA 116+48.0, RT 38.5 TO STA 116+75.0, RT 20.3
CONSTRUCT 27 FT X 15 IN PLASTIC DRAINAGE PIPE
(SMOOTH INTERIOR)
CONSTRUCT CB-B @ STA 116+75.0, RT 20.3
15 IN INV. IN = 220.82
15 IN INV. OUT = 220.57
GRATE ELEV. = 229.04

(2A) STA 20+85.9, LT 14.1 RIVER ST TO STA 116+48.0,
RT 38.5 N MAIN ST
CONSTRUCT 46 FT X 15 IN PLASTIC DRAINAGE PIPE
(SMOOTH INTERIOR)
CONSTRUCT CB-B @ STA 116+48.0, RT 38.5
15 INV IN = 220.44
15 INV. OUT = 220.19
GRATE ELEV. = 229.21

(3) STA 21+09.9, LT 7.7 TO STA 20+85.9, LT 14.1
CONSTRUCT 115 FT X 42 IN RCP
CONSTRUCT 7 FT DMH @ STA 20+85.7, LT 16.5
REMOVE EXISTING DRAINAGE MANHOLE
EX. 36 IN RCP INV. IN = 222.15
EX. 12 IN CLAY PIPE APPROX INV. IN = 223.0 +/-
CONNECT TO EXISTING PIPE (SUBSIDIARY)
15 IN INV. IN = 219.83
42 IN INV. OUT = 218.62
GRATE ELEV. = 229.16

N

RET PSNH 415/2 VZ 179/1 2 DROPS-L1

COVE COURT

COVE COURT CONSTRUCTION ℄

LIMIT OF WORK
STA 30+50.00
MATCH EXISTING

NORTH MAIN STREET STA 116+38.27=
COVE COURT STA 30+00.73

NORTH MAIN STREET STA 116+34.32=
RIVER STREET STA 20+00.00 =

PERMANENT AND CONSTRUCTION EASEMENT

CONSTRUCT STEEL ORNAMENTAL PICKET FENCE (SEE SHEET 18 FOR LAYOUT)

PC 116+60.82

PT 117+38.83

EXISTING TREE TO REMAIN

NORTH MAIN STREET CONSTRUCTION ℄

PC 118+28.56

PERMANENT AND CONSTRUCTION EASEMENT

REMOVE TREE

EXISTING TREE TO REMAIN

REMOVE EXISTING STONE RETAINING WALL. SEE BRIDGE PLANS FOR LIMITS (SEE NOTE 3).

SEE BRIDGE PLANS FOR RETAINING WALL AND SIDEWALK IMPROVEMENTS IN THIS AREA.

PT 119+52.45

NORTH MAIN STREET

CUT AND CAP EXISTING 10" LINE

DISK 230-NAVD88 EL.229.18'

DO NOT DISTURB BRONZE DISC

10" x 10" x 10" TEE WITH 10" GATE VALVE

MAINTAIN EXISTING HYDRANT

10" DIP WATERLINE

2 - 45 DEGREE BENDS (10" DIP)

REMOVE EXISTING CHAIN LINK FENCE (SEE NOTE 2)

CONSTRUCT STEEL PICKET FENCING (SEE CURBING PLAN FOR LOCATION)

20" x 10" x 10" TAPING SLEEVE WITH 10" GATE VALVE

CONTRACTOR TO VERIFY ACTUAL LOCATION OF EXISTING WATERLINE. LOCATION SHOWN IS APPROXIMATE ONLY.

COCHECO RIVER

LIMIT OF WORK
STA 115+50.00
MATCH EXISTING

LIMIT OF WORK
STA 51+00.00
MATCH EXISTING

SAWCUT AND MATCH EXISTING SIDEWALK

PT 21+23.16

RIVER STREET CONSTRUCTION ℄

PINE STREET CONSTRUCTION ℄

PINE STREET

RIVER STREET

MATCH TO SHEET 13 OF 48

MATCH TO SHEET 12 OF 48

(R1) STA 23+36.6, LT 11.8 TO STA 20+85.7, LT 16.5
REMOVE 257 FT FT X 6 IN PIPE
(SUBSIDIARY TO NEW PIPE)

(R2) STA 20+85.9, LT 14.1 TO STA 20+88.2, LT 6.4
REMOVE 8 FT X 12 IN PIPE
REMOVE CB @ STA 20+88.2, LT 6.4

(R4) STA 116+40.0, RT 4.0 TO STA 116+55.0, RT 30.0
REMOVE DI (SUBSIDIARY).
REMOVE 30 FT X 6 IN PIPE.
PLUG PIPE TO RIVER.

NOTE: CONTRACTOR SHALL VERIFY ALL EXISTING INVERTS AND PIPE SIZES PRIOR TO STARTING WORK

GENERAL NOTES

1. ALL EXISTING GRANITE CURBING REMOVED AS PART OF THIS CONTRACT TO BE SALVAGED TO THE CITY.
2. EXISTING FENCE POSTS TO BE CUT FLUSH WITH TOP OF WALL. POST HOLES TO BE FILLED WITH GROUT AS APPROVED BY THE ENGINEER. COST OF FENCE REMOVAL AND GROUT SUBSIDIARY TO NEW FENCING.
3. REMOVAL OF STONE RETAINING WALL PAID UNDER ITEM 504.1 - COMMON BRIDGE EXCAVATION.
4. ADJUSTMENTS OF ALL WATER VALVES, SEWER AND DRAIN COVERS AND GRATES, AND GAS VALVES SHALL BE SUBSIDIARY TO ITEM 403.11 - HOT BITUMINOUS PAVEMENT, MACHINE METHOD.
5. ~~CONCRETE SIDEWALK ON RIVER STREET SHALL BE CONTINUOUS ACROSS DRIVEWAYS. SIDEWALK TO BE 6" THICK ACROSS DRIVEWAY LIMITS.~~ (1)
SEE SHEET 10 FOR DRIVEWAY TREATMENTS

SCALE 1" = 20'-0
20 0 20

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LOCATION NORTH MAIN STREET OVER THE COCHECO RIVER

GENERAL PLAN (1 OF 4)

BRIDGE SHEET OF

	REVISIONS AFTER PROPOSAL			BY	DATE		BY	DATE
1	ADDENDUM 1	BRC	DESIGNED	MJ	4/09	CHECKED	BRC	10/09
			DRAWN	MJ	4/09	CHECKED	BRC	10/09
			QUANTITIES			CHECKED		
			ISSUE DATE			FEDERAL PROJECT NO.	SHEET NO.	TOTAL SHEETS
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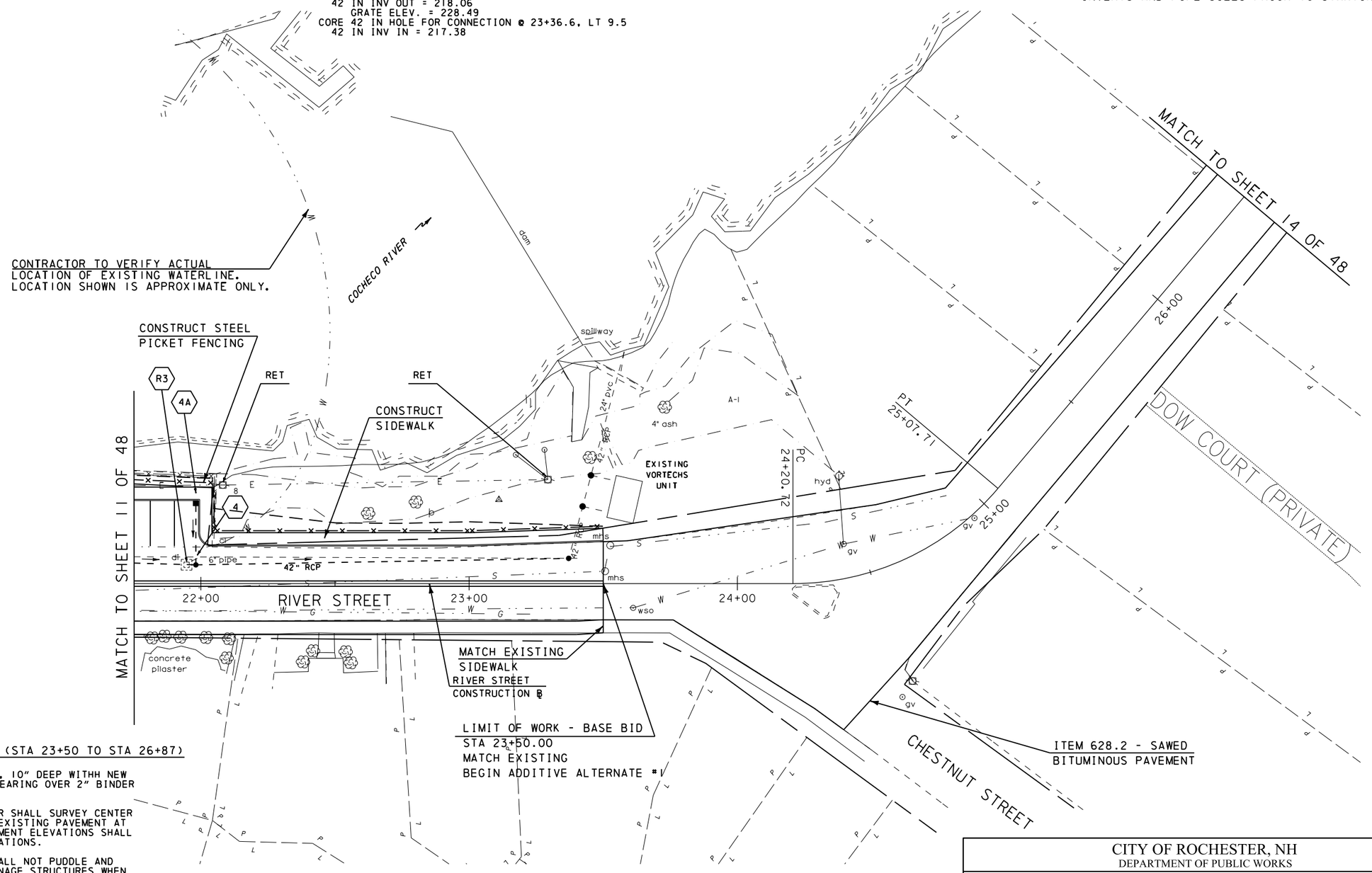
DRAINAGE NOTES

(4) STA 23+36.6, LT 9.5 TO STA 21+98.1, LT 7.0
CONSTRUCT 139 FT X 42 IN RCP
CONSTRUCT 6 FT DMH @ STA 21+98.1, LT 7.0
CONNECT TO EXISTING DMH @ STA 23+36.6, LT 9.5 (SUBSIDIARY)
15 IN INV IN = 219.50
42 IN INV IN = 218.06
42 IN INV OUT = 218.06
GRATE ELEV. = 228.49
CORE 42 IN HOLE FOR CONNECTION @ 23+36.6, LT 9.5
42 IN INV IN = 217.38

(4A) STA 21+98.1, LT 7.0 TO STA 21+98.1, LT 30.0
CONSTRUCT 23 FT X 15 IN PLASTIC DRAINAGE PIPE (SMOOTH INTERIOR)
CONSTRUCT CB-B @ STA 21+98.1, LT 30.0
15 IN INV OUT = 219.80
GRATE ELEV. = 227.95

(R3) STA 21+99.2, LT 12.3 TO STA 21+94.1, LT 9.4
REMOVE 4 FT X 6 IN PIPE
REMOVE CB @ STA 21+94.1, LT 9.4

NOTE: CONTRACTOR SHALL VERIFY ALL EXISTING INVERTS AND PIPE SIZES PRIOR TO STARTING WORK



ADDITIVE ALTERNATE #1 NOTES (STA 23+50 TO STA 26+87)

1. RIVER STREET TO BE RECLAIMED, 10" DEEP WITHH NEW 3½" NOMINAL PAVEMENT (1½" WEARING OVER 2" BINDER COURSE).
2. PRIOR TO WORK, THE CONTRACTOR SHALL SURVEY CENTER AND EDGE LINE ELEVATIONS OF EXISTING PAVEMENT AT 25' INTERVALS. FINISHED PAVEMENT ELEVATIONS SHALL MATCH EXISTING PAVEMENT ELEVATIONS.
3. FINISHED PAVEMENT SURFACE SHALL NOT PUDDLE AND SHALL DRAIN TO EXISTING DRAINAGE STRUCTURES WHEN APPROPRIATE.
4. ANY STRUCTURES IN THIS AREA SHALL BE LOWERED PRIOR TO RECLAIMING OPERATION AND RAISED TO FINAL GRADE PRIOR TO FINAL PAVING. COST OF ADJUSTING EXISTING STRUCTURES SHALL BE SUBSIDIARY TO THE RECLAIMING OPERATION.

SCALE 1" = 20'-0
20 0 20

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GENERAL PLAN (3 OF 4)

BRIDGE SHEET OF

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1	ADDENDUM 1	BRC		DESIGNED LKW/MHM		CHECKED RLJ	
				DRAWN		CHECKED	
				QUANTITIES		CHECKED	
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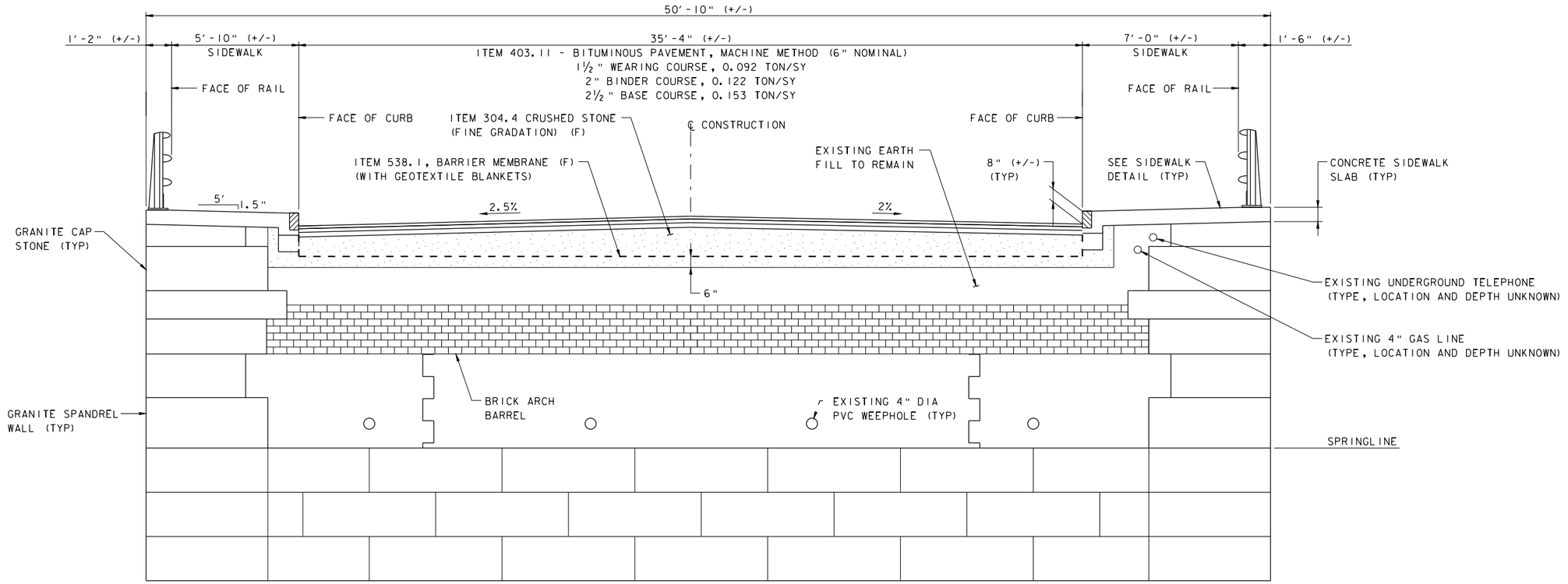
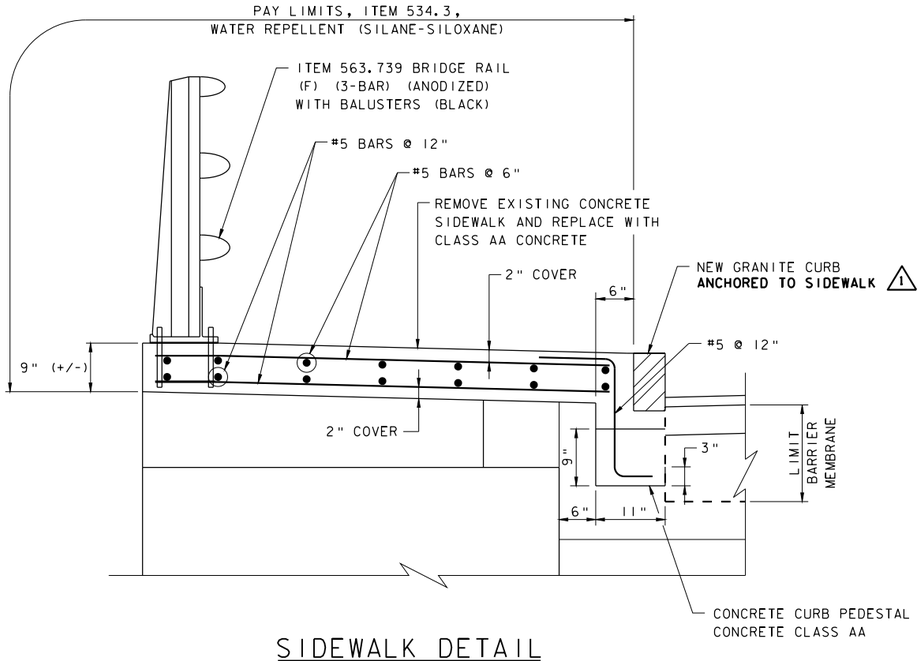


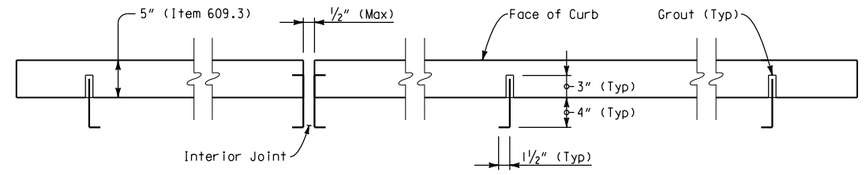
TRANSVERSE SECTION

SCALE: ⅜" = 1'-0"



SIDEWALK DETAIL

SCALE: 1" = 1'-0"



NOTE:
CURB ANCHORS (GALVANIZED) - ¼"ø RODS, TWO PER STONE, STAGGERED IN ADJACENT STONES AND COUNTERSUNK. (COST SHALL BE PAID UNDER ITEM 609.3)

CURB ANCHOR DETAIL

NOT TO SCALE

1

NOTES

1. ITEM 538.1, BARRIER MEMBRANE, SHALL INCLUDE GEOTEXTILE BLANKETS THAT CONFORM TO NHDOT SECTION 593.111, GEOTEXTILE FABRICS. ALL COSTS FOR THE GEOTEXTILE BLANKETS SHALL BE SUBSIDIARY TO ITEM 538.1.

1 **2. EXISTING BRIDGE CURB SHALL BE REMOVED UNDER ITEM 502. - REMOVAL OF EXISTING BRIDGE STRUCTURE. EXISTING BRIDGE CURB SHALL BE SALVAGED TO THE CITY AT NO ADDITIONAL COST TO THE CITY.**

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BRIDGE REHABILITATION DETAILS (2 OF 4)

BRIDGE SHEET OF

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			DRAWN		CHECKED		
			QUANTITIES		CHECKED		

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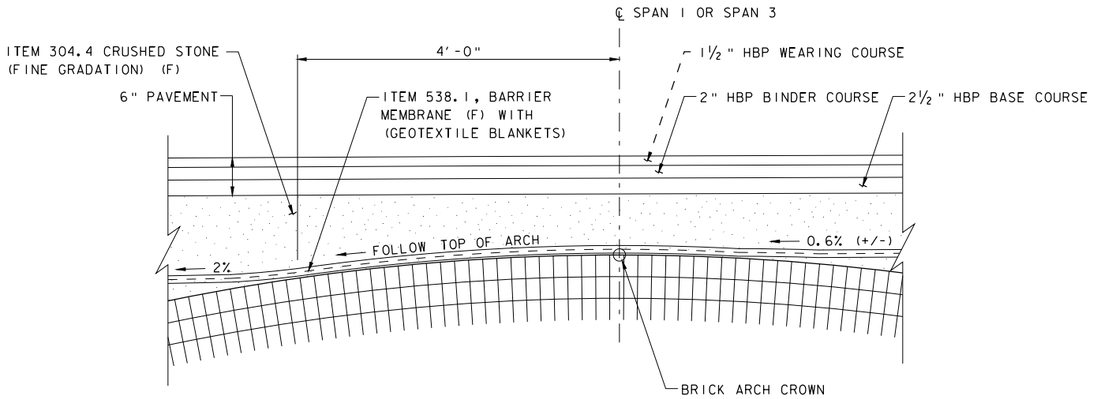
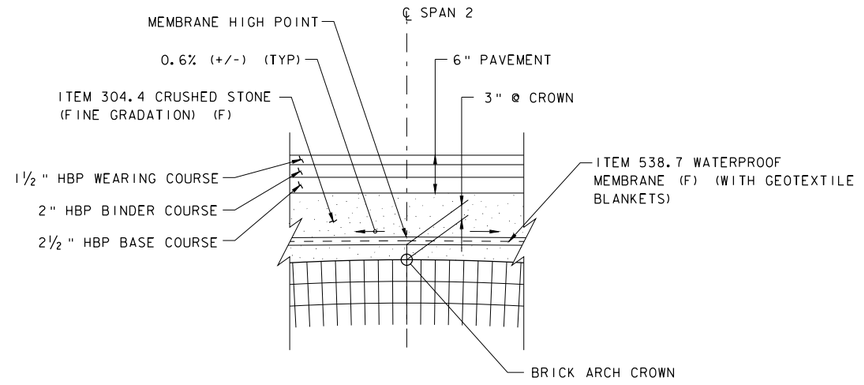


DETAIL A

SCALE: 1" = 1'-0"
(SPAN 1 SHOWN, SPAN 3 SIMILAR)



DETAIL B

SCALE: 1" = 1'-0"

BRIDGE REHABILITATION WORK

1. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE TRAFFIC CONTROL PLANS, AND SHALL INCLUDE CLOSING THE BRIDGE AND REROUTING TRAFFIC AROUND THE SITE VIA THE EXISTING ROADWAY NETWORK DURING BRIDGE REHABILITATION WORK.
2. BRIDGE WORK PAY LIMITS HAVE BEEN DELINEATED BETWEEN STA 117+05.17 AND STA 118+83.71. BRIDGE REHABILITATION SHALL INCLUDE THE FOLLOWING:
   - A. REMOVE EXISTING PAVEMENT AND FILL TO LIMITS SHOWN
   - B. REMOVE AND STORE EXISTING GRANITE CURB
   - C. REMOVE AND STOCKPILE EXISTING 3-BAR ALUMINUM BRIDGE RAIL
   - D. REMOVE CONCRETE SIDEWALK
   - E. REPAIR SPAN 1 BRICK
   - F. PLACE CONCRETE CURB PEDESTALS
   - G. SET AND GROUT CURB ANCHORS
   - H. SET BRIDGE RAIL AND BRIDGE APPROACH RAIL
   - I. CONSTRUCT REINFORCED CONCRETE SIDEWALKS
   - J. PLACE WATERPROOF MEMBRANE
   - K. PLACE UNDERDRAIN AT WEST APPROACH
   - L. PLACE DRAINAGE COLUMNS AT EAST APPROACH
   - M. PLACE NEW SUBBASE EARTH AND NEW PAVEMENT
   - N. REPOINT VAULT BRICKWORK
   - O. REPOINT STONEWORK

NOTES

1. ITEM 570.101, REPAIR SPAN 1 BRICK, SHALL INCLUDE WORK ASSOCIATED WITH THE FULL DEPTH BRICK REPAIR OF A PORTION OF THE SOUTHWEST CORNER OF THE SPAN 1 BRICK ARCH. EXISTING BRICKS SHALL BE REUSED AND MORTAR SHALL BE A MIX OF NATURAL CEMENT, HYDRATED LIME, AND SAND.
2. (1) ITEM 571.101, REPOINT STONE WORK, SHALL INCLUDE REPOINTING A PORTION OF THE GRANITE ARCH FASCIAS AND UNDERSIDES OF SPANDREL WALLS. FOR ESTIMATING PURPOSES, 30% OF THE ARCH GRANITE REQUIRE REPOINTING. MORTAR SHALL BE A MIX OF NATURAL CEMENT, HYDRATED LIME, AND SAND.
3. (1) ITEM 571.102, REPOINT VAULT BRICKWORK, SHALL INCLUDE REPOINTING OF A PORTION OF THE INTERIOR BRICK ARCH SPANS. DESPITE YEARS OF ACCUMULATED CALCITIC BRICK STAINING AND VARIABLE COLORS OF THE EXISTING POINTING MATERIAL EXIST THROUGHOUT THE ARCH SPANS, THE INTENT IS NOT TO CLEAN AND REPOINT ALL OF THE BRICKWORK, BUT ONLY THOSE AREAS WHERE THE POINTING IS VISIBLY MISSING, AND AT THE AREAS BETWEEN BRICK/GRANITE AND BRICK/BRICK JOINT SEAMS. EACH OF THE 3 SPANS HAVE OF BRICK UNDERSIDE SURFACE AREA OF APPROXIMATELY 1600 SQUARE FEET. FOR ESTIMATING PURPOSES, 60% OF THE BRICK ARCH UNDERSIDE AREAS REQUIRE REPOINTING. MORTAR SHALL BE A MIX OF NATURAL CEMENT, HYDRATED LIME, AND SAND.

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