CONTRACT DOCUMENTS AND SPECIFICATIONS

for

Peirce Island Bridge Rail Replacement Project Bid Proposal #09-10

John P. Bohenko, City Manager

City of Portsmouth, New Hampshire

Prepared by:

City of Portsmouth Engineering Division Public Works Department

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City of Portsmouth Portsmouth, New Hampshire Department of Public Works

Peirce Island Bridge Rail Replacement Project

INVITATION TO BID

<u>Sealed</u> bid proposals, <u>plainly marked</u>, <u>Peirce Island Bridge Rail Replacement Project</u>, Bid Proposal #09-10 <u>on the outside of the mailing envelope as well as the sealed bid envelope</u>, addressed to the Finance/Purchasing Department, City Hall, 1 Junkins Avenue, Portsmouth, New Hampshire, 03801, will be accepted until 2:00 p.m., September 29, 2009; at which time all bids will be publicly opened and read aloud.

The project consists of installing new bridge rail, approach rail and repairs to the concrete curbs. Replacement rail will be aluminum 3-bar rail (anodized black). The bridge length is approximately 275 feet.

Specifications may be obtained from the City's web site: www.cityofportsmouth.com, by contacting the Finance/Purchasing Department on the third floor at the above address, or by calling the Purchasing Coordinator at 603-610-7227. Questions may be addressed to the Purchasing Coordinator. Addenda to this bid document, if any, including written answers to questions, will be posted on the City of Portsmouth website under the project heading.

There will be a mandatory pre-bid meeting on Tuesday September 22, 2009 at 11:00 a.m... The pre-bid meeting will be held in the conference room located on the first floor of the Portsmouth Public Works Building located at 680 Peverly Hill Road in Portsmouth, NH.

Completion date will be 270 calendar days from the date of the Notice to Proceed. Liquidated damages shall be assessed at \$100.00 per day.

Bidders must determine the quantities of work required and the conditions under which the work will be performed.

The City of Portsmouth reserves the right to reject any or all bids, to waive technical or legal deficiencies, to re-bid, and to accept any bid that it may deem to be in the best interest of the City.

Each Bidder shall furnish a bid security in the amount of ten percent (10%) of the bid. The Bid Security may be in the form of a certified check drawn upon a bank within the State of New Hampshire or a bid bond executed by a surety company authorized to do business in the State of New Hampshire, made payable to the City of Portsmouth, N.H.

The General Contractor will be permitted to subcontract portions of the work not to exceed an aggregate dollar value of 50% of the total contract bid amount in complete accordance with Section 108 of the State of New Hampshire Standard Specifications for Road and Bridge Construction.

INSTRUCTIONS TO BIDDERS

BIDDING REQUIREMENTS AND CONDITIONS

1. Special Notice to Bidders and Addenda

Appended to these instructions is a complete set of bidding and general contract forms. These forms may be detached and executed for the submittal of bids. The plans, specifications, and other documents designated in the proposal form will be considered as part of the proposal, whether attached or not.

The bidders must submit a statement of bidder's qualifications, if requested, subsequent to bid opening but prior to award.

Addenda to this bid document, if any, including written answers to questions, will be posted on the City of Portsmouth website at http://www.cityofportsmouth.com/finance/purchasing.htm under the project heading. Addenda and updates will NOT be sent directly to firms. Contractors submitting a bid should check the web site daily for addenda and updates after the release date. Firms should print out, sign and return addenda with the proposal. Failure to do so may result in disqualification.

2. <u>Interpretation of Quantities in Bid Schedules</u>

The quantities appearing in the bid schedule are approximate only and are prepared for the comparison of bids. Payment to the contractor will be made only for actual work performed and accepted in accordance with the contract. Any scheduled item of work to be done and materials to be furnished may be increased, decreased or omitted as hereinafter provided, and no claim for loss, anticipated profits or costs incurred in anticipation of work not ultimately performed will be allowed due to such increase or decrease.

3. Examination of Plans, Specifications and Site Work

The bidder is expected to examine carefully the site of the proposed work, the plans, standard specifications, supplemental specifications, special provisions and contract forms before submitting a proposal. The submission of a bid shall be considered conclusive evidence that the bidder has made such examination and is satisfied as to the conditions to be encountered in performing the work and as to the requirements of the contract. It will be conclusive evidence that the bidder has also investigated and is satisfied with the sources of supply for all materials.

Plans, surveys, measurements, dimensions, calculations, estimates and statements as to the condition under which the work is to be performed are believed to be correct, but the contractors must examine for themselves, as no allowance will be made for any errors or inaccuracies that maybe found therein.

4. Familiarity with Laws

The bidder is assumed to have made himself or herself familiar with all federal and state laws and all local by-laws, ordinances and regulations which in any manner affect those engaged or employed on the work or affect the materials or equipment used in the work or affect the conduct of the work, and the bidder, if awarded the contract, shall be obligated to perform the work in conformity with said laws, by-laws, ordinances and regulations notwithstanding its ignorance thereof. If the bidder shall discover any provision in the plans or specifications which is in conflict with any such law, by-law, ordinance or regulation the bidder shall forthwith report it to the engineer in writing.

5. <u>Preparation of Proposal</u>

- a) The bidder shall submit its proposal upon the forms furnished by the Owner. The bidder shall specify a lump sum price in figures, for each pay item for which a quantity is given and shall also show the products of the respective prices and quantities written in figures in the column provided for that purpose and the total amount of the proposal obtained by adding the amount of the several items. All words and figures shall be in ink or typed. If a unit price or a lump sum bid already entered by the bidder on the proposal form is to be altered it should be crossed out with ink, the new unit price or lump sum bid entered above or below it and initialed by the bidder, also with ink.
- b) The bidder's proposal must be signed with ink by the individual, by one or more general partners of a partnership, by one or more members or officers of each firm representing a joint venture; by one or more officers of a corporation, by one or more members (if member-managed) or managers (if manager-managed) of a limited liability company, or by an agent of the contractor legally qualified and acceptable to the owner. If the proposal is made by an individual, his or her name and post office address must be shown, by a partnership the name and post office address of each general and limited partner must be shown; as a joint venture, the name and post office address of each venturer must be shown; by a corporation, the name of the corporation and its business address must be shown, together with the name of the state in which it is incorporated, and the names, titles and business addresses of the president, secretary and treasurer.

6. <u>Nonconforming Proposals</u>

Proposals will be considered nonconforming and may be rejected in the Owner's sole discretion for any of the following reasons:

- If the proposal is on a form other than that furnished by the Owner, or if the form is altered or any portion thereof is detached;
- If there are unauthorized additions, conditional or altered bids, or irregularities of any kind which may tend to make the proposal or any portion thereof incomplete, indefinite or ambiguous as to its meaning;
- If the bidder adds any provisions reserving the right to accept or reject an award, or to enter into a contract pursuant to an award; or
- If the proposal does not contain a unit price for each pay item listed except in the case of authorized alter pay items.

7. <u>Proposal Guaranty</u>

No proposal will be considered unless accompanied by a bid bond, surety, or similar guaranty of the types and in an amount not less than the amount indicated in the Invitation to Bid. All sureties shall be made payable to the "City of Portsmouth". If a bid bond is used by the bidder it shall be:

- In a form satisfactory to the Owner;
- With a surety company licensed, authorized to do business in, and subject to the jurisdiction of the courts of the State of New Hampshire; and
- Conditioned upon the faithful performance by the principal of the agreements contained in the sub-bid or the general bid.

In the event any irregularities are contained in the proposal guaranty, the bidder will have four business days (not counting the day of opening) to correct any irregularities. The corrected guaranty must be received by 4:00 p.m. If irregularities are not corrected to the satisfaction of the Owner, the Owner, in its sole discretion, may rejected the bid.

8. <u>Delivery of Proposals</u>

When sent by mail, the sealed proposal shall be addressed to the Owner at the address and in the care of the official in whose office the bids are to be received. All proposals shall be filed prior to the time and at the place specified in the invitation for bids. Proposals received after the time for opening of the bids will be returned to the bidder, unopened.

9. Withdrawal of Proposals

A bidder will be permitted to withdraw his or her proposal unopened after it has been submitted if the Owner receives a request for withdrawal in writing prior to the time specified for opening the proposals.

10. Public Opening of Proposals

Proposals will be opened and read publicly at the time and place indicated in the invitation for bids. Bidders, their authorized agents, and other interested parties are invited to be present.

11. <u>Disqualification of Bidders</u>

Any or all of the following reasons may be deemed by Owner in its sole discretion as being sufficient for the disqualification of a bidder and the rejection of his proposal:

- More than one proposal for the same work from an individual, firm, or corporation under the same or different name:
- Evidence of collusion among bidders;
- Failure to submit all required information requested in the bid specifications;
- If the Contractor is not listed with the New Hampshire Department of Transportation as a prequalified contractor under the classifications of Road Construction and Paving;
- Lack of competency or of adequate machinery, plant or other equipment, as revealed by the statement of bidders qualification or otherwise;
- Uncompleted work which, in the judgment of the owner, might hinder or prevent the prompt completion of additional work if awarded;
- Failure to pay, or satisfactorily settle, all bills due for labor and materials on former contracts;
- Default or unsatisfactory performance on previous contracts; or
- Such disqualification would be in the best interests of the Owner.

12. <u>Material Guaranty and Samples</u>

Before any contract is awarded, the bidder may be required to furnish a complete statement of the origin, composition and manufacture of any or all materials to be used in the construction of the work, and the Owner may, in its sole discretion, reject the bid based on the contents of the statement or as a result of the failure of the bidder to submit the statement.

AWARD AND EXECUTION OF CONTRACT

1. <u>Consideration of Proposals</u>

a) After the proposals are opened and read, they will be compared on the basis of the total price for all sections of work to be charged to perform the work and any such additional considerations as may be identified in the bid documents. The results of such comparisons will be immediately available to the public. In case of a discrepancy between the prices written in words and those written figures, the prices written in words shall govern. In case of a discrepancy between the total shown in the proposal and that obtained by adding the products of the quantities of items and unit bid prices, the latter shall govern.

b) The Owner reserves the right to reject any or all proposals, to waive technicalities or to advertise for new proposals, if, in the sole discretion of the Owner, the best interest of the City of Portsmouth will be promoted thereby.

2. Award of Contract

Within 30 calendar days after the opening of proposals, if a contract is to be awarded, the award will be made to the lowest responsible and qualified bidder whose proposal complies with all the requirements prescribed. The successful bidder will be notified, in writing, mailed to the address on his or her proposal, that his or her bid has been accepted and that the bidder has been awarded the contract.

The award shall not be considered official until such time that a Purchase Order, fully executed contract or an award letter has been issued by the Finance Director. No presumption of award shall be made by the bidder until such documents are in hand. Verbal notification of award is not considered official. Any action by the bidder to assume otherwise is done so at his/her own risk and the City will not be held liable for any expense incurred by a bidder that has not received an official award.

3. <u>Cancellation of Award</u>

The Owner reserves the right to cancel the award of any contract at any time before the execution of such contract by all parties without any liability of the Owner.

4. <u>Return of Proposal Guaranty</u>

All proposal guaranties, except those of the three lowest bidders, will be returned upon request following the opening and checking of the proposals. The proposal guaranties of the three lowest bidders will be returned within ten days following the award of the contract if requested.

5. Contract Bond

At the time of the execution of the contract, the successful bidder shall furnish:

Labor and materials payment bond in the sum equal to 100 percent of the contract amount.

At the time of project completion, the Owner may, in its sole discretion, permit the Contractor to substitute a maintenance bond in lieu of holding retainage for the entire guaranty period. If a bond is furnished it shall meet the following criteria:

• The bond shall be in an amount equal to 20 percent of the contract amount. Such bond shall guarantee the repair of all damage due to faulty materials or workmanship provided or done by the contractor. The

guarantee shall remain in effect for a period of one year after the date of final acceptance of the job by the Owner.

Each bond shall be: (1) in a form satisfactory to the Owner; (2) with a surety company licensed and authorized to do business and with a resident agent designated for services of process in the State of New Hampshire; and (3) conditioned upon the faithful performance by the principal of the agreements contained in the original bid. All premiums for the contract bonds are to be paid by the contractor.

6. Execution and Approval of Contract

The successful bidder is required to present all contract bonds, to provide proof of insurance, and to execute the contract within 10 days following receipt of the City's notification of acceptance of the bid. No contract shall be considered as in effect until it has been fully executed by all parties.

7. Failure to Execute Contract

Failure to execute the contract and file an acceptable bond within 10 days after notification of acceptance of bid shall be just cause for the cancellation of the award and the forfeiture of the proposal guarantee which shall become the property of the Owner, not as a penalty, but in liquidation of damages sustained. Award may then be made to the next lowest responsible bidder, or the work may be re-advertised as the Owner may determine in its sole discretion.

PROPOSAL FORM

Peirce Island Bridge Rail Replacement Project

CITY OF PORTSMOUTH, N.H.

To the City of Portsmouth, New Hampshire, herein called the Owner.

The undersigned, as Bidder, herein referred to as singular and masculine declares as follows:

- 1. All interested in the Bid as Principals are named herein;
- 2. This bid is not made jointly, or in conjunction, cooperation or collusion with any other person, firm, corporation, or other legal entity;
 - 3. No officer, agent or employee of the Owner is directly or indirectly interested in this Bid;
- 4. The bidder has carefully examined the sites of the proposed work and fully informed and satisfied himself as to the conditions there existing, the character and requirements of the proposed work, the difficulties attendant upon its execution and the accuracy of all estimated quantities stated in this Bid, and the bidder has carefully read and examined the Drawings, Agreement, Specifications and other Contract Documents therein referred to and knows and understands the terms and provisions thereof;
- 5. The bidder understands that the quantities of work calculated in the Bid or indicated on the Drawings or in the Specifications or other Contract Documents are approximate and are subject to increase or decrease or deletion as deemed necessary by the Portsmouth Engineer. Any such changes will not result in or be justification for any penalty or increase in contract prices; and agrees that, if the Bid is accepted the bidder will contract with the Owner, as provided in the Contract Documents, this Bid Form being part of said Contract Documents, and that the bidder will supply or perform all labor, services, plant, machinery, apparatus, appliances, tools, supplies and all other activities required by the Contract Documents in the manner and within the time therein set forth, and that the bidder will take in full payment therefor the following item prices; and
- 6. It is the intention of this contract that the items listed above describe completely and thoroughly the entirety of the work as shown on the plans and as described in the specifications. All other items required to accomplish the above items are considered to be subsidiary work, unless shown as a pay item.

CITY OF PORTSMOUTH

PIERCE ISLAND BRIDGE RAIL REPLACEMENT PROPOSAL FORM				
Notes: 1. All prices must be written in ink. Prices must be written in words as well as figures for the entire proposal. In case of discrepancy, the amount in words shall govern.				
-	ces given shall include items delineated in accordance with the intract Documents, as well as any incidental items necessary to			
ALL 1	Allowance: Uniformed Police Officer Traffic Detail			
	Fourteen Thousand Dollars and no cents	_	<u>\$14,000.00</u>	
BASE	Base Bid: Rail, concrete repair, etc. See General Note #4.	dollars	\$	
	and cents.			
	CITY OF PORTSMOUTH PIERCE ISLAND BRIDGE RAIL REPLACI TOTAL LUMP SUM BASE BID INCLUDING AI			
		dollars	\$	
	and cents.			
ALT#1	Alternate #1: Replace w-beam rail with galvanized rail painted black. See General Note #3.	dollars	\$	
	and cents.			
BID	Bid: Hourly rate for traffic control Flagger	dollars	\$	
	and cents per hour	_		

Total in Figures \$	
In Words \$	
	tra work, if any, performed in accordance with the terms and nts, the bidder will accept compensation as stipulated therein.
Date	
Company	By:Signature
Business Address	Title:
City, State, Zip Code	Telephone:
The Bidder has received and acknow	wledged Addenda Nothrough
	form and in a sealed envelope, plainly marked on the outside and the Project name as it appears at the top of the Proposal
	By:

BID SECURITY BOND

NOW THEREFORE,

- (a) If said Bid shall be rejected or withdrawn as provided in the INFORMATION FOR BIDDERS attached hereto or, in the alternative,
- (b) If said Bid shall be accepted and the Principal shall duly execute and deliver the form of AGREEMENT attached hereto and shall furnish the specified bonds for the faithful performance of the AGREEMENT and/or CONTRACT and for the payment for labor and materials furnished for the performance of the AGREEMENT and or CONTRACT,

then this obligation shall be void, otherwise it shall remain in full force and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder in no event shall exceed the amount of this obligation.

BID SECURITY BOND (continued)

The Surety, for value received, hereby agrees that the obligation of said surety and its bond shall be in no way impaired or affected by any extensions of the time within such BID may be accepted, and said Surety does hereby waive notice of any such extension.

IN WITNESS WH	EREOF, the parti	es hereto have	duly executed
this bond on the		day of	, 20
	(Name of Princ	L.S.	
(SEAL)			
BY			
(Na	me of Surety)		
RV			

STATEMENT OF BIDDER'S QUALIFICATIONS

All questions must be answered and the data given must be clear and comprehensive. This statement must be notarized. Add separate sheets if necessary. **This statement to be submitted with Bid.**

l.	Name of Bidder
2.	Permanent Main Office Address
3.	Form of Entity
1.	When Organized
5.	Where Organized
5. names	How many years have you been engaged in the contracting business under your present name; also state and dates of previous firm names, if any.
7. lates (Contracts on hand; (schedule these, showing gross amount of each contract and the approximate anticipated of completion).
3.	General character of work performed by your company.
€.	Have you ever failed to complete any work awarded to you?(no)(yes). If so, where and why?
10.	Have you ever defaulted on a contract?(no)(yes). If so, where and why?
11.	Have you ever failed to complete a project in the time allotment according to the(no)(yes). If so, where and why?
12.	List your last 10 contracts of \$200,000 or more recently performed, stating:
	A. the approximate cost for each
	B. the nature of the work
	C. the month and year completed
	If the Bidder has performed fewer than 10 contracts of \$200,000 or more, provide all project history since the date of the organization or the last three years.
13.	List your major equipment available for this contract.
14.	List your key personnel such as project superintendent and foremen available for this contract.

STATEMENT OF BIDDERS QUALIFICATIONS (continued)

15.	(unless this w	ork is to be done	by your own orga		lowing	
		Installation Repairs				
16.		nks do you do bu				
10.	With What ou	inks do you do bu	siness.			
	a. Do you gra (yes)	_	mission to contac	et this/these institu	itions?	
	intant, must be		ified Audited Sta		ared by an independe ed. Internal statemen	
Dated	l at	this	day of	, 20		
		Name of Bidder		-		
	BY_					
	TITLE	,				
State	of					
Coun	ty of					
		bei	ng duly sworn, de	eposes and		
	14 4h - 1-: 4 d :		~£			
says	mat the bluder i	.s (Name of Organi			_	
and a	nswers to the fo	oregoing question	s and all statemer	ats contained there	ein are true and correc	et.
	Sworn to befo	ore me thisd	ay of, 20_	_·		
		Notary of Pub	lic			
		. 2				
Mv C	Commission exp	oires				

AUTHORIZATION AND RELEASE

As part of the Bid, the Bidder shall execute and submit the Authorization and Release set forth below:

By submitting this Bid, Bidder authorizes Owner, Engineer, and their employees and agents to make such inquiries as they deem necessary to determine whether Bidder's qualifications are satisfactory. Bidder hereby agrees to release and hold harmless Owner, Engineer and any person or entity requested to respond to Owner or Engineer regarding Bidder's qualifications from any and all claims and causes of action related to such inquiries, including without limitation actions for defamation, slander or interference with contractual relations.

Bidder:	
By:	
Name:	

CONTRACT AGREEMENT

Peirce Island Bridge Rail Replacement Project

THIS AGREEMENT made as of the XXth day of XX in the year **2009**, by and between the City of Portsmouth, New Hampshire (hereinafter call the Owner) and XXXXXXXX (hereinafter called the Contractor),

WITNESSETH; that the Owner and Contractor, in consideration of the mutual covenants hereinafter set forth, agree as follows:

ARTICLE I- Work - The Contractor shall perform all work as specified or indicated in the Contract Documents for the completion of the Project. The Contractor shall provide, at his expense, all labor, materials, equipment and incidentals as may be necessary for the expeditious and proper execution of the Project.

ARTICLE II - ENGINEER - The Director of Public Works or his authorized representative will act as Engineer in connection with completion of the Project in accordance with the Contract Documents.

ARTICLE III - CONTRACT TIME - Work will commence and be completed in accordance with the Notice to Proceed.

ARTICLE IV - CONTRACT PRICE - Owner shall pay Contractor for pavement repair for only those roads designated for repair by Owner. Owner makes no representation that it will undertake all the pavement repairs estimated in the bid proposal form. Contractor will be paid only for work performed in accordance with the Contract Documents as shown under item prices in the Bid Proposal.

ARTICLE V - PAYMENT - Partial payments will be made in accordance with the Contract Documents. Upon final acceptance of the work and settlement of all claims, Owner shall pay the Contractor the unpaid balance of the Contract Price, subject to additions and deductions provided for in the Contract Documents.

ARTICLE VI - RETAINAGE - To insure the proper performance of this Contract, the Owner shall retain certain amounts in the percentage of the Contract Price and for the time specified as provided in the Contract Documents.

ARTICLE VII - LIQUIDATED DAMAGES - In event the Contractor fails to successfully execute the work within the specified contract time the Owner shall assess the Contractor liquidated damages in the amount of **one hundred dollars** (\$100) for each calendar day beyond the specified completion date for each section of work. Liquidated damages shall be deducted from the Contract Price prior to final payment of the Contractor.

CONTRACT AGREEMENT (continued)

ARTICLE VIII – CONTRACT DOCUMENTS – The Contract Documents which comprise the contract between Owner and Contractor are attached hereto and made a part hereof and consist of the following:

- 8.1 This Agreement
- 8.2 Contractor's Bid and Bonds
- 8.3 Notice of Award, Notice to Proceed
- 8.4 Instruction to Bidders
- 8.5 General Requirements, Control of Work, Temporary Facilities, Measurement and Payment, Standard Specifications, Special Requirements, Utilities and Drawings
- 8.6 Insurance Requirements
- 8.7 Technical Specifications
- 8.8 Drawings
- 8.9 Special Provisions
- 8.10 Any modifications, including change orders, duly delivered after execution of this Agreement.

ARTICLE IX – TERMINATION FOR DEFAULT – Should contractor at any time refuse, neglect, or otherwise fail to supply a sufficient number or amount of properly skilled workers, materials, or equipment, or fail in any respect to prosecute the work with promptness and diligence, or fail to perform any of its obligations set forth in the Contract, Owner may, at its election, terminate the employment of Contractor, giving notice to Contractor in writing of such election, and enter on the premises and take possession, for the purpose of completing the work included under this Agreement, of all the materials, tools and appliances belonging to Contractor, and to employ any other persons to finish the work and to provide the materials therefore at the expense of the Contractor.

ARTICLE X – INDEMNIFICATION OF OWNER – Contractor will indemnify Owner against all suits, claims, judgments, awards, loss, cost or expense (including without limitation attorneys fees) arising in any way out of the Contractor's negligent performance or non-performance of its obligations under this Contract. Contractor will defend all such actions with counsel satisfactory to Owner at its own expense, including attorney's fees, and will satisfy any judgment rendered against Owner in such action.

ARTICLE XI – PERMITS – The Contractor will secure at its own expense, all permits and consents required by law as necessary to perform the work and will give all notices and pay all fees and otherwise comply with all applicable City, State, and Federal laws, ordinances, rules and regulations.

ARTICLE XII – INSURANCE – The Contractor shall secure and maintain, until acceptance of the work, insurance with limits not less than those specified in the Contract.

ARTICLE XIII – MISCELLANEOUS –

A. Neither Owner nor Contractor shall, without the prior written consent of the other, assign, sublet or delegate, in whole or in part, any of its rights or obligations under any of the Contract Documents; and, specifically not assign any monies due, or to become due, without the prior written consent of Owner.

CONTRACT AGREEMENT (continued

- B. Owner and Contractor each binds himself, his partners, successors, assigns and legal representatives, to the other party hereto in respect to all covenants, agreements and obligations contained in the Contract Documents.
- C. The Contract Documents constitute the entire Agreement between Owner and Contractor and may only be altered amended or repealed by a duly executed written instrument.
- D. The laws of the State of New Hampshire shall govern this Contract without reference to the conflict of law principles thereof.
- E. Venue for any dispute shall be the Rockingham County Superior Court unless the parties otherwise agree.

IN WITNESS WHEREOF, the parties hereunto executed this

AGREEMENT the day and year first above written.

TITLE: City Manager

	BIDDER:
BY:	
TITLE:	
	CITY OF PORTSMOUTH, N.H
BY:	John P. Bohenko

NOTICE OF INTENT TO AWARD

Date:	
TO:	
IN AS MUCH as you were the low	v responsible bidder for work entitled:
Peiro	ce Island Bridge Rail Replacement Project
You are hereby notified that the Ci	ity intends to award the aforesaid project to you.
Immediately take the necessary ste within ten (10) calendar days from	eps to execute the Contract and to provide required bonds and proof of insurance a the date of this Notice.
	cliver to the Owner certificates of insurance and bonds which you are required to nee with the Contract Documents. The City reserves the right to revoke this Notice eps to execute this Contract.
	City of Portsmouth Portsmouth, New Hampshire
	Judie Belanger, Finance Director

NOTICE TO PROCEED

DATE:	
PROJECT: Peirce Island Bridge Rail Replacement	
TO:	
YOU ARE HEREBY NOTIFIED TO COMMENCE W	ORK IN ACCORDANCE
WITH THE AGREEMENT DATED, ON OR	
BEFORE	AND THE DATE OF COMPLETION OF ALL WORK
SHALL BE (either December 9, 2009 or April 1, 2010 1-4 of the General Requirements) .	to be determined by the City and Contractor based on Part
CITY OF PORTSMOUTH, N.H.	
BY: Steven F. Parkinson, PE	
TITLE: Public Works Director	
ACCEPTANCE OF NOTICE	
RECEIPT OF THE ABOVE NOTICE TO PROCEED IS HEREBY ACKNOWLEDGED BY	
This theday of20	
By:	

CHANGE ORDER

Change Order # 1		Date of Issuance:
Owner: CITY OF PORTSMOUTH, N.		
Contractor:		
You are directed to make the following Contract Documents:	changes in the	
Description:		
Purpose of Change Order:		
Attachments:		
CHANGE IN CONTRACT PRICE	CHANGE IN CONTRACT TIME	
Original Contract Price: \$	Original Completion Date:	
Contract Price prior to this Change Order: \$	Contract Time prior to this Change Order:	
Net Increase of this Change Order:	Net Increase or Decrease of this Change Order:	
Contract Price with all approved Change Orders:	Contract Time with all approved Change Orders:	
RECOMMENDED: AP	PROVED: APPROVED	:
by by	by by	
PW Director City Finan	nce City Manager Contra	actor

LABOR AND MATERIAL PAYMENT BOND

(This format provided for convenience, actual Labor and Material Bond is acceptable in lieu, if compatible)
Bond Number
KNOW ALL MEN BY THESE PRESENTS:
that
as Principal, hereinafter called Contractor, and (Surety Company) a corporation organized and existing under the laws of the State of
and authorized to do business in the State of New Hampshire hereinafter called Surety, are held and firmly bound unto the City of Portsmouth, N.H. Obligee, hereinafter called Owner, for the use and benefit of claimants as herein below defined, in the
amount of Dollars (\$), for the payment whereof Principal and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.
WHEREAS, Principal has by written agreement dated entered into a
contract with Owner for in accordance with drawings and specifications prepared by the Public Works Department, 680 Peverly Hill Road, Portsmouth, N.H. 03801, which contract is by reference made a part hereof, and is hereinafter referred to as the Contract.
NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that the Principal shall promptly make payment to all claimants as hereinafter defined, for all labor and material used or reasonably required for use in the performance of the Contract and for the hire of all equipment, tools, and all other things contracted for or used in connection therewith, then this obligation shall be void, otherwise it shall remain in full force and effect, subject however, to the following conditions:
(1) A claimant is defined as one having a direct contract with the Principal or, with a subcontractor of the Principal for labor, material, equipment, or other things used or reasonably required for use in the performance of the Contract. "Labor and material" shall include but not be limited to that part of water, gas, power, light, heat, oil and gasoline, telephone service or rental of equipment applicable to the Contract.
(2) The above named Principal and Surety hereby jointly and severally agree with the Owner that every claimant as herein defined, who has not been paid in full before the expiration of a period of ninety (90) days after the date on which the last of such claimant's work or labor was done or performed, or materials were furnished by such a claimant, may sue on this bond for the use of such claimant, prosecute the suit by final judgment for such

sum or sums as may be

LABOR AND MATERIAL PAYMENT BOND (continued)

justly due claimant, and have execution thereon. The Owner shall not be liable for the payment of any such suit or any costs or expenses of any such suit, and principal and surety shall jointly and severally indemnify, defend and hold the Owner harmless for any such suit, costs or expenses.

- (3) No suit or action shall be commenced hereunder by any claimant:
- (a) Unless Claimant, other than one having a direct contract with the Principal, shall have given notice to all the following:

The Principal, the Owner and the Surety above named, within six (6) calendar months after such claimant did or performed the last of the work or labor, or furnished the last of the materials for which said claim is made, stating with substantial accuracy the amount claimed and the name of the party to whom the materials were furnished, or for whom the work or labor was done or performed. Such notice shall be served by mailing the same by registered mail or certified mail, postage prepaid, in an envelope addressed to the Principal, Owner, and Surety, at any place where an office is regularly maintained for the transaction of business, or served in any manner in which legal process may be served in the State of New Hampshire save that such service need not be made by a public officer.

- (b) After the expiration of one (1) year following the date on which Principal ceased all work on said contract, it being understood, however, that if any limitation embodied in this bond is prohibited by any law controlling the construction hereof, such limitation shall be deemed to be amended so as to be equal to the minimum period of limitation permitted by such law.
- (c) Other than in a State court of competent jurisdiction in and for the county or other political subdivision of the State in which the project, or any part thereof, is situated, or in the United States District Court for the district in which the project, or any part thereof, is situated, and not elsewhere. (4) The amount of this bond may be reduced by and to the extent of any payment of payments made in good faith hereunder, inclusive of the payment by Surety of mechanics' liens which may be filed on record against said improvement, whether or not claim for the amount of such lien by presented under and against this bond.

Signed and sealed this	s day of		, 20	In the presence of:
	BY:			
(Witness)	(Principal) (Seal)			
	(Surety Company)			
	BY:			
(Witness)		(Title) (S	Seal)	

LABOR AND MATERIAL PAYMENT BOND (continued)

Note:

If the Principal (Contractor) is a partnership, the Bond should be signed by each of the partners.

If the Principal (Contractor) is a corporation, the Bond should be signed in its correct corporate name by its duly authorized Officer or Officers.

If this bond is signed on behalf of the Surety by an attorney-in-fact, there should be attached to it a duly certified copy of his Power of Attorney showing his authority to sign such Bonds.

There should be executed an appropriate number of counterparts of the bond corresponding to the number of counterparts of the Agreement.

MAINTENANCE BOND

At the Owner's election, a maintenance bond may be substituted for retainage at the completion of the project. If the Owner permits a maintenance bond, it shall be in the amount of **Twenty Percent** (20%) of the contract price with a corporate surety approved by the Owner. Such bond shall be provided at the time of Contract completion and shall guarantee the repair of all damage due to faulty materials or workmanship provided or done by the Contractor. This guarantee shall remain in effect for a period of one year after the date of final acceptance of the job by the Owner.

CONTRACTOR'S AFFIDAVIT

STATE OF:	
COUNTY OF:	
Before me, the undersigned, a(Notary Public, Justice of the second control of t	the Peace)
in and for said County and State personally appeared, (Individual, Partner, or duly authorize	
who, being duly sworn, according to law deposes	and says that the cost of labor, material, and
equipment and outstanding claims and indebtedne	ess of whatever nature arising out of the
performance of the Contract between	
CITY OF PORTSMOUTH, NEW HAMPSHIRE and (Contractor)	
of	
Dated:	
has been paid in full for Construction of: Peirce Island Bri	idge Rail Replacement Project
	(Individual, Partner, or duly authorized representative of Corporate Contractor)
Sworn to and subscribed before me thisday of20	

CONTRACTOR'S RELEASE

KNOW ALL MEN BY THESE PRESENT	TS that	
	(Contractor) of	, County of
and	State of	
does hereby acknowledge that		(Contractor)
has on this day had, and received from the	CITY OF PORTSMOUTH NEW HAMPSH	IIRE, final and completed
payment for the Construction of:		
Peirce Is	land Bridge Rail Replacement Project	
NOW THEREFORE, the said		
do/does by these presents remise, re Portsmouth, New Hampshire, its su arising from or in connection with all, and all manners of action and a dues, duties, sum and sums of mon covenants, contracts, agreements, p claims and demand, whatsoever in New Hampshire, its successors and its successors and assigns) ever had administrators) (it, its successors and	(Contractor) d administrators) (for itself, its successelease, quit-claim and forever discharge elease, quit-claim and forever discharge elease, and assigns, of and from all the said Contract dated ctions, cause and causes of action and ey, accounts, reckonings, bonds, bills, from ises, variances, damages, judgme law of equity, or otherwise, against the assigns, which (I, my heirs, executor I, now have or which (I, my heirs, executor I, now have or which (I, my heirs, executor I, now have or which (I, my heirs, executor I) assigns) hereafter can shall or may g whatsoever; from the beginning of the same elease of the same ele	ge the City of claims and demands, and of and from lactions, suits, debts, specifications, extents, executions, he City of Portsmouth, ex, or administrators) (it, ecutors, or have, for, upon or by
IN WITNESS WHEREOF,	Contractor:	
	By:	
print name of witness:	Its Duly Authorized	
Dated:		

INSURANCE REQUIREMENTS

Insurance shall be in such form as will protect the Contractor from all claims and liabilities for damages for bodily injury, including accidental death, and for property damage, which may arise from operations under this contract whether such operation by himself or by anyone directly or indirectly employed by him.

AMOUNT OF INSURANCE

- A) Comprehensive General Liability: Bodily injury or Property Damage - \$2,000,000 Per occurrence and general aggregate
- B) Automobile and Truck Liability:
 Bodily Injury or Property Damage \$2,000,000
 Per occurrence and general aggregate

Additionally, the Contractor shall purchase and maintain the following types of insurance:

- A) Full Workers Comprehensive Insurance coverage for all people employed by the Contractor to perform work on this project. This insurance shall at a minimum meet the requirements of the most current laws of the State of New Hampshire.
- B) Contractual Liability Insurance coverage in the amounts specified above under Comprehensive General Liability.
- C) Product and Completed Operations coverage to be included in the amounts specified above under Comprehensive General Liability.
- D) If the work requires the use of marine equipment and/or vehicles, marine insurance in commercially reasonable amounts may be required.

ADDITIONAL INSURED

All liability policies (including any excess policies used to meet coverage requirements) shall include the City of Portsmouth, New Hampshire as named Additional Insured.

- 1) The contractor's insurance shall be primary in the event of a loss.
- The Additional Insured endorsement must include language specifically stating that the entity is to be covered for all activities performed by, or on behalf of, the contractor, including the City of Portsmouth's general supervision of the contractor.
- 3) City of Portsmouth shall be listed as a Certificate Holder. The City shall be identified as follows:

City of Portsmouth Attn: Legal Department 1 Junkins Avenue Portsmouth, NH 03801

GENERAL REQUIREMENTS

PART 1 - SUMMARY

1.1 SCOPE OF WORK

A. The proposed work for this project includes installation of new bridge rail, approach rail and repairs to the concrete curbs. Replacement rail will be aluminum 3-bar rail (anodized black).

1.2 LIMITS OF WORK

A. The project will begin at approximately the intersection of Pierce island Road and Mechanic Street adjacent to Prescott Park and end at the drive accessing the boat launch on Pierce Island.

1.3 SURVEY/CONSTRUCTION

A. No ground survey has been completed for this project. Basic profile information has been taken from the existing bridge plans and shown on the contract plans to assist with rail fabrication. The Contractor shall be aware that all existing structure dimensions and elevations shown on these plans are based upon the original bridge plans and do not necessarily reflect the "as-built" measurements. The Contractor shall field verify all dimensions of the existing structure and should be prepared to make any adjustments as required to perform the work and properly fit the new work to the existing bridge.

1.4 TIME

A. The Contractor may choose from two work windows within which to complete all work at the project site considered under this Contract. The first window is to complete all work at the project site contemplated under this contract between September 7, 2009 and December 9, 2009. The second window is to complete all work at the project site contemplated under this contract between April 1, 2010 and May 15, 2010.

Contractor shall demonstrate the ability to keep the grout used to secure the anchor bolts and for concrete patching at temperatures above those recommended by the material manufacturers if weather conditions warrant such a consideration.

The work window chosen by the Contractor will have no bearing on award of the contract.

1.4 INTENT OF CONTRACT

- A. The intent of the Contract is to provide for the construction and completion in every detail of the work described.
 - 1. The Contractor shall furnish all labor, materials, equipment, tools, transportation and supplies required to complete the work in accordance with the terms of the Contract.
 - 2. The Contractor shall be required to conform to the intent of the plans and specifications. No extra claims shall be allowed for portions of the work not specifically addressed in the plans and specifications but required to produce a whole and complete project, such work will be considered subsidiary to the bid items.

1.5 INCIDENTAL WORK

- A. Incidental work items for which separate payment is not measured includes, but is not limited to, the following items:
 - 1. Clean up
 - 2. Construction Signs
 - 3. Mobilization
 - 4. Restoration of property
 - 5. Cooperation with other contractors, abutters and utilities.
 - 6. Accessories and fasteners or components required to make items paid for under unit prices or lump sum items complete and functional.
 - 7. As the project is bid as a Lump Sum, it is expected that the submitted bid will include all work as noted on the plans or reasonably inferred to be necessary for a complete project.

1.6 ALTERATION OF PLANS OR OF CHARACTER OF WORK

A. The Owner reserves the right, without notice to Surety, to make such alterations of the plans or of the character of the work as may be necessary or desirable to complete fully and acceptably the proposed construction; provided that such alterations do not increase or decrease the contract cost. Within these cost limits, the alterations authorized in writing by the Owner shall not impair or affect any provisions of the Contract or bond and such increases or decreases of the quantities as a result from these alterations or deletions of certain items, shall not be the basis of claim for loss or for anticipated profits by the contractor. The contractor shall perform the work as altered at the contract unit price or prices.

1.7 EXTRA WORK ITEMS

- A. Extra work shall be performed by the Contractor in accordance with the specifications and as directed, and will be paid for at a price as provided in the Contract documents or
- B. if such pay items are not applicable than at a price negotiated between the contractor and the Owner or at the unit bid price.
- C. If the Owner determines that extra work is to be performed, a change order will be issued.

1.8 CHANGE ORDERS

- A. The Owner reserves the right to issue a formal change order for any increase, decrease, deletion, or addition of work or any increase in contract time or price.
- B. The contractor shall be required to sign the change order and it shall be considered as part of the Contract documents.

1.9 FINAL CLEAN UP

- A. Before acceptance of the work, the contractor shall remove from the site all machinery, equipment, surplus materials, rubbish, temporary buildings, barricades and signs. All parts of the work shall be left in a neat and presentable condition. On all areas used or occupied by the contractor, regardless of the contract limits, the bidder shall clean-up all sites and storage grounds.
- B. The items prescribed herein will not be paid for separately, but shall be paid for as part of the total contract price.

1.10 ERRORS AND INCONSISTENCY IN CONTRACT DOCUMENTS

- A. Any provisions in any of the Contract Documents that may be in conflict with the paragraphs in these General Requirements shall be subject to the following order of precedence for interpretation.
 - 1. Technical Specifications will govern General Requirements

PART 2 - CONTROL OF WORK

2.1 AUTHORITY OF ENGINEER

- A. All work shall be done under supervision of the Engineer and to his satisfaction. The Engineer will decide all questions which may arise as to the quality and acceptability of materials furnished and work performed and as to the rate of progress of the work; all questions that may arise as to the interpretation of the plans and specifications; and all questions as to the acceptable fulfillment of the Contract by the Contractor.
- B. The Engineer will have the authority to suspend the work wholly or in part for such periods as he may deem necessary due to the failure of the Contractor to correct conditions unsafe for workers or the general public; for failure to carry out provisions of the Contract; for failure to carry out orders; for conditions considered unsuitable for the prosecution of the work, including unfit weather; or for any other condition or reason deemed to be in the public interest. The Contractor shall not be entitled any additional payments arising out of any such suspensions.
- C. The Owner reserves the right to demand a certificate of compliance for a material or product used on the project. When the certificate of compliance is determined to be unacceptable to the Engineer the Contractor may be required to provide engineering and testing services to guarantee that the material or product is suitable for use in the project, at its expense (see Sample of Certificate of Compliance).
- D. The Contractor shall plan paving operations so that the Engineer will have sufficient advanced notification to provide the necessary inspection and testing. Sufficient notification will be considered 48 hours.
 - 1. In the event that paving is suspended, the 48 hour notification shall be required again before restarting the paving operations unless otherwise agreed by the Engineer.
 - 2. Consistent notification of paving intent without actually paving will result in the following actions:
 - a. First offense verbal warning
 - b. Second offense written warning
 - c. Third and subsequent liquidated damages will be charged for one working day.

2.2 REMOVAL OF UNACCEPTABLE AND UNAUTHORIZED WORK

A. If the City determines that non-conforming work substantially conforms to the Contract, the City may accept the non-conforming work provided that the City may require a credit to the City to be deducted from amounts otherwise due the Contractor. If the City and

Contractor cannot agree to the amount of the credit, the work shall be unacceptable work.

- B. The Contractor shall remove, replace, or otherwise correct all unacceptable work as directed by the City at the expense of the Contractor, without cost or liability to the City.
- C. Prior to Final Acceptance and upon written order by the City, the Contractor shall remove or uncover unauthorized work. After examination, the Contractor shall rebuild the uncovered work to a condition conforming to the Contract at the expense of the Contractor and without cost or liability to the City. Any delay arising from unauthorized work shall be an inexcusable delay.
- D. Prior to Final Acceptance and upon written order by the City, the Contractor shall uncover un-inspected work. After examination, the Contractor shall rebuild the uncovered work to a condition conforming to the Contract.
 - 1. If the City determines that the un-inspected work is acceptable, the uncovering, removing, and rebuilding will be paid for as extra work and any delay resulting there from shall be an excusable delay.
 - 2. If the City reasonably determines that the un-inspected work is unacceptable, the uncovering, removing, and rebuilding shall be at the Contractor's expense and any delay resulting there from shall be an inexcusable delay.

2.3 PROTECTION AND RESTORATION OF PROPERTY AND LANDSCAPES

- A. The Contractor shall use every precaution to prevent injury or damage to wires, poles, or other property of public utilities; trees, shrubbery, crops, and fences along and adjacent to the right-of-way, all underground structures such as pipes and conduits, within or outside of the right-of-way; and the Contractor shall protect and carefully preserve all property marks until an authorized agent has witnessed or otherwise referenced their location.
- B. The Contractor shall be responsible for all damage or injury to property of any character, during the prosecution of the work, resulting from any act, omission, neglect, or misconduct in his manner or method of executing the work, or at any time due to defective work or materials, and said responsibility will not be released until the project shall have been completed and accepted.

C. When or where any direct or indirect damage or injury is done to public or private property by or on account of any act, omission, neglect, or misconduct in the execution of the work, or as a result of the failure to perform work by the Contractor, the

Contractor shall restore, at its own expense, such property to a condition similar or equal to that existing before such damage or injury was done, by repairing rebuilding, or otherwise restoring as may be directed, or the Contractor shall make good such damage or injury in an acceptable manner.

- D. The Contractor shall be responsible for the preservation of all trees on the project which are not called to be removed. Any trees damaged by the Contractor's operations shall be repaired using approved tree dressing or paint in accordance with the appropriate provisions of Section 650-658 inclusive of the NHDOT Standard Specifications. Damaged trees must be replaced if so determined by the City Arborist, in his or her sole discretion.
- E. If the Contractor fails to repair, rebuild or otherwise restore such property as may be deemed necessary, the Owner, after 48 hours notice, may proceed to do so, and the cost thereof may be deducted from any money due or which may become due the Contractor under the contract.
- F. It is the intent of the Parties that the Contractor preserve, to as great an extent as possible, the natural features of the site.

2.4 MAINTENANCE DURING CONSTRUCTION

A. The Contractor shall maintain the work during construction and until the project is accepted. This maintenance shall constitute continuous and effective work prosecuted day by day, with adequate equipment and workers to ensure that the structure is kept in satisfactory conditions at all times.

2.5 SAFETY PRECAUTIONS

- A. Upon commencement of work, the Contractor shall be responsible for initiating, maintaining and supervising all safety precautions necessary to ensure the safety of employees on the site, other persons who may be affected thereby, including the public, and other property at the site or adjacent thereto.
- B. During the progress of the Work Contractor shall keep the Site and other areas free from accumulations of waste materials, rubbish, and other debris. Removal and disposal of such waste materials, rubbish, and other debris shall conform to applicable Laws and Regulations.

C. At the end of each working day, the construction site shall be left in a safe and orderly manner. All materials and equipment on site that have not been incorporated into the work shall be placed in secured areas outside the traveled way and off private property, unless the Contractor has obtained agreements with said property owners for storage of materials and equipment. Portions of the work which are in progress shall be protected to avoid damage to the work and/or protect pedestrians and vehicles utilizing the project area.

2.6 PERMITS

A. It will be the responsibility of the Contractor to obtain all permits required for the operation of equipment in, or on, all city streets and public ways.

2.7 MAINTENANCE AND PROTECTION OF TRAFFIC

- A. The Contractor shall schedule such police officers or other traffic control personnel as the Engineer deems necessary for the direction and control of traffic within the project site.
- B. An Allowance has been included on the Proposal Form that is intended to be sufficient to cover the payment of police officers used for the direction and control of traffic for the project duration. The Contractor shall be responsible for the scheduling, direction and supervision of Traffic Officers.
- C. A line item is included on the Proposal Form to receive a hourly rate bid for the use of flaggers for direction and control of traffic. This line item is included in the event that police officers are not required by the City.
- D. At least one lane, shall be maintained between 7 A.M. and 7 P.M. unless approved by the Engineer. The maximum work zone in the restricted lane shall not exceed 200 feet unless waived by the City.
- E. The Contractor shall be responsible to insure the safe passage of pedestrians thru the work area at all times. At least one (1) pedestrian access shall be provided at all times.
- F. The Contractor is responsible for developing a traffic maintenance and signing plan and must get approval from the Engineer before any construction begins. Guidelines for the construction and erection of barricades, warning signs, etc. may be found in the most recent edition of "Manual on Uniform Traffic Control Devices for Streets and Highways".

2.8 BARRICADES AND WARNING SIGNS

- A. The Contractor shall provide, erect and maintain all necessary barricades, suitable and sufficient lights, danger signals, signs and other traffic control devices, and shall take all necessary precautions for the protection of the work and safety of the public.
- B. The Contractor shall be held responsible for all damage to the work due to any failure of the warning devices to properly protect the work from the traffic, pedestrians or other causes.
- C. Roadway closed to traffic shall be protected by effective barricades.
 - 1. Obstructions shall be illuminated during hours of darkness.
 - 2. Suitable warning signs shall be provided to control and direct traffic in a proper manner, as approved by the engineer.
- D. The work prescribed herein will not be paid for separately but will be paid for as part of the Contract Price unless specifically appearing as a bid item.

2.9 TRAFFIC SIGNS

- A. All existing traffic signs which are to be removed during construction shall be carefully dismounted and the posts removed and shall be stacked in an area approved by the City Engineer. The Contractor shall protect the signs from damage while in his possession and shall repair, at no additional cost to the City, any damages caused by his operations.
- B. Stop signs are to be maintained at their original locations at all times during the progress of the work.
- C. Prior to the start of any construction work, the Contractor and Engineer shall prepare a mutually acceptable inventory of <u>all</u> signs within the project limits which shall be used as a guide for replacement should signs be removed for construction purposes. The signs shall be inventoried by station location and approximate offset, legend of sign and post.
- D. This work shall be considered as subsidiary obligation of the contract for which no specific payment will be made. All signs shall conform to the MUTCD.

2.10 LIMITATION OF OPERATIONS

A. The Contractor shall conduct the work at all times in such a manner and in such sequence as will assure the least interference with traffic.

- B. The Contractor shall not open up work to the prejudice or detriment of work already started.
- C. The Engineer may require the Contractor to finish a section on which work is in progress before work is started on any additional sections, if finishing such section is essential to public convenience.

PART 3 - TEMPORARY FACILITIES

3.1 STORAGE FACILITIES

- A. The Contractor shall not store materials or equipment in a public right-of-way beyond the needs of one working day. Equipment and materials shall be stored in an approved location.
- B. The Contractor shall protect all stored materials from damage by weather or accident and shall insure adequate drainage at and about the storage location.
- C. Prior to final acceptance of the work all temporary storage facilities and surplus stored materials shall be removed from the site.

3.2 SANITARY FACILITIES

- A. The Contractor shall provide for toilet facilities for the use of the workers employed on the work.
- B. Temporary toilet facilities may be installed provided that the installation and maintenance conform with all State and local laws, codes, regulations and ordinances governing such work. They shall be properly lit and ventilated, and shall be kept clean at all times.
- C. Prior to final acceptance of the work all temporary toilet facilities shall be removed from the site.

3.3 TEMPORARY WATER

A. The Contractor shall make all arrangements with the local water department for obtaining water connections to provide the water necessary for construction operations and shall pay all costs.

3.4 TEMPORARY ELECTRICITY

- A. The Contractor shall make all arrangements with the Public Service Company for obtaining electrical connections to provide the electrical power necessary for construction operations and security lighting and shall pay all electrical connection and power costs.
- B. The Contractor shall be responsible for obtaining an electrical permit from the City Electrical Inspector.

PART 4 - MEASUREMENT AND PAYMENT

4.1 MEASUREMENT OF QUANTITIES

- A. All work completed under the contract will be measured according to the United States standard measure.
- B. The method of measurement and computations to be used in determination of quantities of material furnished and of work performed under the contract will be those methods generally recognized as conforming to good engineering practice. Unless otherwise stated all quantities measured for payment shall be computed or adjusted for "in place" conditions.
- C. Unless otherwise specified, longitudinal measurements for area computations will be made horizontally, and no deductions will be made for individual fixtures having an area of 9 square feet or less. Unless otherwise specified, transverse measurements for area computations will be the dimensions shown on the plans or ordered in writing.
- D. Structures will be measured according to lines shown on the plans or as ordered unless otherwise provided for elsewhere in the specifications.
- E. In computing volumes of excavation, embankment, and borrow, the average end area method will be used. Where it is impracticable to measure by the cross-section method, acceptable methods involving three-dimensional measurement may be used. When measurement of borrow in vehicles is permitted, the quantity will be determined as 80 percent of the loose volume.
- F. In computing volumes of concrete, stone and masonry, the prismoidal method will be used. The term "ton" will mean the short ton consisting of 2,000 pounds avoirdupois.
- G. Except as specified below, all materials that are measured or proportioned by weight shall be weighed on scales which the Contractor has had sealed by the State or by a repairman registered by the Commissioner of Agriculture. All weighing shall be performed in a manner prescribed under the Rules and Regulations of the Bureau of Weights and Measures of the New Hampshire Department of Agriculture.
- H. Weighing of materials on scales located outside New Hampshire will be permitted for materials produced or stored outside the state, when requested by the Contractor and approved. Out-of-state weighing in order to be approved, must be performed by a licensed public weigh master or a person of equal authority in the state concerned on scales accepted in the concerned state.

- I. Each truck used to haul material being paid for by weight shall bear a plainly legible identification mark, and if required, shall be weighed empty daily at such times as directed.
- J. When material is weighed, the individual weight slips, which shall be furnished by the Contractor, for trucks, trailers, or distributors, shall show the following information: the date; the project; the material or commodity; the dealer or vendor; the Contractor or Subcontractor; the location of the scales; the vehicle registration number or other approved legible identification mark; the tare and net weights, with gross weights when applicable; and the weigher's signature or his signed initials.
- K. The right is reserved to weight any truck, trailer, or distributor, at locations designated, before and after making deliveries to the project.
- L. Bituminous materials will be measured by the gallon or ton.
- M. When material is specified to be measured by the cubic yard but measurement by weight is approved, such material may be weighed and the weight converted to cubic yards for payment purposes. Necessary conversion factors will be determined by the Owner.
- N. The term "lump sum" when used as an item of payment will mean complete payment for the work described in the item.
- O. When a complete structure or structural unit (in effect, "lump sum" work) is specified as the unit of measurement, the unit will be construed to include all necessary fittings and accessories, so as to provide the item complete and functional. Except as may be otherwise provided, partial payments for lump sum items will be made approximately in proportion to the amount of the work completed on those items.
- P. Material wasted without authority will not be included in the final estimate.

4.2 SCOPE OF PAYMENT

A. The Contractor shall receive and accept compensation provided for in the contract as full payment for furnishing all materials and for performing all work under the contract in a complete and acceptable manner and for all risk, loss, damage or expense of whatever character arising out of the nature of the work or the prosecution thereof.

- B. The Contractor shall be liable to the Owner for failure to repair, correct, renew or replace, at his own expense, all damage due or attributable to defects or imperfections in the construction which defects or imperfections may be discovered before or at the time of the final inspection and acceptance of the work.
- C. No monies, payable under the contract or any part thereof, except the first estimate, shall become due or payable if the Owner so elects, until the Contractor shall satisfy the Owner that the Contractor has fully settled or paid all labor performed or furnished for all equipment hired, including trucks, for all materials used, and for fuels, lubricants, power tools, hardware and supplies purchased by the Contractor and used in carrying out said contract and for labor and parts furnished upon the order of said Contractor for the repair of equipment used in carrying out said contract; and the Owner, if he so elects, may pay any and all such bills, in whole or in part, and deduct the amount of amounts so paid from any partial or final estimate, excepting the first estimate.

4.3 COMPENSATION FOR ALTERED QUANTITIES

- A. Except as provided for under the particular contract item, when the accepted quantities of work vary from the quantities in the bid schedule the Contractor shall accept as payment in full, so far as contract items are concerned, at the original contract unit prices for the accepted quantities of work done. No allowance will be made for any increased expense, loss of expected reimbursement, or loss of anticipated profits suffered or claimed by the Contractor resulting either directly from such alterations or indirectly from unbalanced allocation among the contract items of overhead expense on the part of the Bidder and subsequent loss of expected reimbursements therefore or from any other cause.
- B. Extra work performed will be paid for at the contract bid prices or at the price negotiated between the Owner and the Contractor if the item was not bid upon. If no agreement can be negotiated, the Contractor will accept as payment for extra work, cost plus 15% (overhead and profit). Costs shall be substantiated by invoices and certified payroll.

4.4 PARTIAL PAYMENTS

A. Partial payments will be made on a monthly basis during the contract period based on invoicing for materials and documented costs for work performed. From the total amount ascertained as payable, an amount equivalent to ten percent (10%) of the whole will be deducted and retained by the Owner until the requirements of Article 4.6 "Acceptance and Final Payment", are met.

4.5 FINAL ACCEPTANCE

- A. Upon due notice from the Contractor of presumptive completion of the entire project, the City Engineer will make an inspection. If all construction provided for and contemplated by the contract is found complete to his satisfaction, this inspection shall constitute the final inspection and the City Engineer will make the final acceptance and notify the Contractor in writing of this acceptance as of the date of the final inspection.
- B. If, however, the inspection discloses any work in whole or in part, as being unsatisfactory, the City Engineer will give the Contractor the necessary instructions for correction of such work, and the Contractor shall immediately comply with and execute such instructions. Upon correction of the work, another inspection will be made which shall constitute the final inspection provided the work has been satisfactorily completed. In such event, the City Engineer will make the final acceptance and notify the Contractor in writing of this acceptance as of the date of final inspection.

4.6 ACCEPTANCE AND FINAL PAYMENT

- A. When the project has been accepted and upon submission by the Contractor of all required reports, completed forms and certifications, the Owner will review the final estimate of the quantities of the various classes of work performed. The Contractor may be required to certify that all bills for labor and material used under this contract have been paid.
- B. The Contractor shall file with the Owner any claim that the Contractor may have regarding the final estimate at the same time the Contractor submits the final estimate. Failure to do so shall be a waiver of all such claims and shall be considered as acceptance of the final estimate. From the total amount ascertained as payable, an amount equal to ten percent (10%) of the whole will be deducted and retained by the Owner for the guaranty period. This retainage will be waived provided the required Maintenance Bond has been posted. After approval of the final estimate by the Owner, the Contractor will be paid the entire sum found to be due after deducting all previous payments and all amounts to be retained or deducted under the provisions of the contract.
- C. All prior partial estimates and payments shall be subject to correction in the final estimate and payment.

D.

4.7 GENERAL GUARANTY AND WARRANTY OF TITLE

- A. The Contractor unconditionally warrants and guarantees that the project will be free from warranty defects for one year from the date of Final Acceptance. Final Acceptance includes receipt of all conforming closeout documentation.
- B. If the City discovers any warranty defects during the warranty period, the Contractor agrees to promptly perform all remedial work at no additional cost or liability to the City. The Contractor shall promptly remedy any defects in the work and pay for any damage to other work resulting therefrom which shall appear within a period of twelve (12) months from the date of final acceptance of the work. The Owner will give notice of defective materials and work with reasonable promptness.
- C. Neither the final certification of payment nor any provision in the contract nor partial or entire use of the improvements embraced in this Contract by the Owner or the public shall constitute an acceptance of work not done in accordance with the Contract or relieve the Contractor of liability in respect to any express or implied warranties or responsibility for faulty materials or workmanship.
- D. No material, supplies or equipment to be installed or furnished under this Contract shall be purchased subject to any chattel mortgage or under a conditional sale, lease purchase or other agreement by which an interest therein or in any part thereof is retained by the Seller or supplier. The Contractor shall warrant good title to all materials, supplies and equipment installed or incorporated in the work and upon completion of all work, shall deliver the same together with all improvements and appurtenances constructed or placed thereon by him to the Owner free from any claims, liens or charges. Neither the Contractor nor any person, firm or corporation furnishing any material or labor for any work covered by this Contract shall have the right to a lien upon any improvements or appurtenances thereon.
- E. Nothing contained in this paragraph, however, shall defeat or impair the right of persons furnishing materials or labor to recover under any bond given by the Contractor for their protection or any rights under any law permitting such persons to look to funds due the Contractor in the hands of the Owner. The provisions of this paragraph shall be inserted in all subcontractors and material contracts and notice of its provisions shall be given to all persons furnishing materials for the work when no formal contract is entered into for such materials.

4.8 NO WAIVER OF LEGAL RIGHTS

A. Upon completion of the work, the Owner will expeditiously make final inspection and notify the Contractor of acceptance. Such final acceptance, however, shall not preclude

or stop the Owner from correcting any measurement, estimate, or certificate made before or after completion of the work, nor shall the Owner be precluded or be stopped from recovering from the Contractor or his Surety, or both, such overpayment as it may sustain by failure on the part of the Contractor to fulfill his obligations under the contract. A waiver on the part of the Owner of any breach of any part of the contract shall not be held to be a waiver of any other or subsequent breach.

B. The Contractor, without prejudice to the Contract shall be liable to the terms of the Contract, shall be liable to the Owner for latent defects, fraud or such gross mistakes as may amount to fraud, and as regards the Owner's right under any warranty or guaranty.

4.9 TERMINATION OF CONTRACTOR'S RESPONSIBILITY

A. Whenever the improvement provided for by the Contract shall have been completely performed on the part of the Contractor and all parts of the work have been released from further obligations except as set forth in his bond and as provided in Article 4.8 above.

PART 5 - SPECIAL REQUIREMENTS

5.1 PRECONSTRUCTION CONFERENCE

- A. A conference will be held at a specified location by the City, within ten (10) days after the awarding of the contract. At this time, the contractor will be required to submit a schedule and a plan showing project activities.
 - 1. In addition to the contractor any subcontractors are required to attend.
 - 2. City officials and representatives of the various utility companies involved in the project will be present at this meeting.
- B. It is the purpose of this meeting to inform the various agencies of the proposed work schedule, and to give them the opportunity of discussing any difficulties and of offering suggestions to the Contractor concerning his proposed schedule in order that full cooperation may be reached.

5.2 SCHEDULE OF OPERATIONS

A. The above mentioned schedule of operations shall consist of a bar chart detailing the Work Plan/Sequence of Construction

5.3 WORKING HOURS

- A. No work shall proceed on this project prior to the hour of 7:00 A.M. or after 6:00 P. M. (prevailing time) on any working day with out written approval from the Engineer. The definition of work for this specification shall include the starting or moving of equipment, machinery, or materials.
- B. Any day worked for four hours or more shall be considered a full working day.

5.4 NOTIFICATION OF RESIDENTS

- A. Residents shall be notified sufficiently in advance of any construction affecting the resident's driveway and sidewalk to allow adequate time for his removal of personal vehicles.
- B. Locations of curb cuts for drive access affecting individual residents shall be brought to residents' attention.

5.5 MATERIALS

A. Materials shall meet the requirements specified for the various subsections of the specifications. Equals shall be approved only prior to the bid opening.

5.6 SURVEY

A. No field survey has been completed for this project.

5.7 SHEETING AND BRACING

A. Any sheeting and/or bracing required for the satisfactory installation of drainage and/or sanitary sewerage structures will not be paid for separately but shall be considered as incidental to the appropriate bid item.

5.8 OCCUPATIONAL SAFETY AND HEALTH

A. The Contractor is hereby advised that all work to be furnished to the City shall be performed with equipment, methods, and use of personnel in conformance with the pertinent Occupational Safety and Health Act requirements of the State of New Hampshire and with the regulations for construction as specified by the City of Labor and Occupational Safety and Health Administration (OSHA) as currently amended.

5.9 EXTENT OF OPEN EXCAVATION

- A. The extent of excavation open at any one time shall be controlled by OSHA regulations and by existing conditions and location of work area.
- B. All excavations must be backfilled to grade at the end of the workday.

5.10 DUST CONTROL FOR STREET

- A. Calcium chloride shall be spread only on disturbed unpaved areas. Calcium chloride shall not be spread on paved areas that are covered by granular material. These areas shall be swept clean of all granular material.
- B. Dust on paved areas shall be controlled with water before sweeping.
- C. This work and materials shall be considered as subsidiary obligation of the contract for which no specific payment will be made.
 - 1. This work may be necessary after final acceptance of the work and prior to expiration of the maintenance bond.
 - 2. This work shall be done at no additional cost to the City.

5.11 WASTE MATERIAL

- A. All waste material shall be removed from the site and the area left clean upon completion of work.
- B. Any equipment or structures damaged by the Contractor shall be repaired or replaced at no additional cost to the City.

PART 6 - UTILITIES

6.1 COOPERATION WITH UTILITIES.

- A. At points where the Contractor's operations are adjacent to properties of telephone, gas, water and/or power companies, or are adjacent to other property, damage to which might result in considerable expense, loss or inconvenience, work shall not be commenced until all arrangements necessary for the protection thereof have been made.
- B. The Contractor shall cooperate with the owners of any underground or overhead utility lines in their removal and rearrangement operations in order that
 - 1. these operations may progress in a reasonable time,
 - 2. duplication or rearrangement work may be reduced to a minimum,
 - 3. services rendered by those parties will not be unnecessarily interrupted.
- C. No person, firm, or corporation, shall make or cause to be made any opening or excavation in a City Street, way, or public place until contact has been made with all utilities to locate any existing underground gas, water, telephone, power or other installations within said street, way or public place.
- D. When gas or other flammable service to buildings is discontinued, the existing service line for such service shall be terminated at a point outside the building.
- E. In the event of interruption to water or utility services as a result of accidental breakage, or as a result of being exposed or supported, the Contractor shall promptly notify the proper authority. He shall cooperate with the same authority in the restoration of such service as promptly as possible.
- F. Water lines, gas lines, service connections, water and gas meter boxes, water and gas valve boxes, light standards, cableways, signals and all other utility appurtenances within the limits of the proposed construction are to be moved by the Utilities without expense to the Contractor, unless otherwise provided for, or as noted in the plans.
- G. The Contractor shall ascertain the location of existing utilities and any other necessary information by direct inquiry at the office of the following utility owners:
- H. Dig Safe: Call before you dig- 1-888-344-7233

PART 7 - DRAWINGS

7.1 SHOP DRAWINGS

- A. The Contractor shall submit working and detail drawings, well in advance of the work, to the City Engineer for review.
- B. The Contractor's drawings shall consist of shop detail, erection and other working plans showing dimensions, sizes and quality of material, details and other information necessary for the complete fabrication and erection of the pertinent work.
- C. The Contractor shall submit two sets of drawings to the City Engineer.
- D. Prior to the approval of the drawings, any work done or materials ordered for the work involved shall be at the Contractor's risk.
- E. One set of the drawings will be returned to the Contractor approved or marked with corrections to be made. After approval has been given, the Contractor shall supply the City Engineer with two sets of the revised detail working drawings.
- F. The City Engineer's approval of the Contractor's working drawings will not relieve the Contractor from responsibility for errors in dimensions or for incorrect fabrication processes, or from responsibility to complete the contract work.

7.2 RECORD DRAWINGS

- A. The Contractor shall keep daily records of all changes in the work, ties to all new service connections, and elevations of all inverts.
- B. Upon completion of the project, the Contractor shall deliver to the Engineer marked-up set of plans with all changes and required information indicated in red.
- C. Final payment will not be made until the Engineer receives the marked-up set of plans.

TECHNICAL SPECIFICATIONS

The following listed sections of the State of New Hampshire Department of Transportation Standard Specifications for Road and Bridge Construction shall apply.

Section:

512	Preparation for Concrete Repairs
563	Bridge Rail
565	Bridge Approach Rail
606	Guardrail
618	Uniformed Officers and Flaggers

These specifications are available on line at: http://webster.state.nh.us/dot/specifications/

The above listed specifications are modified as set forth herein on pages 51 through 55.

The bidder understands that no quantities have been calculated for this project as it will be administered as a Lump Sum contract. The total Lump Sum Bid shall include all work indicated in the Contract Documents or reasonably inferred as required for a complete project.

PREPARATION FOR CONCRETE REPAIRS

The following Changes have been made to this section:

 \underline{Add} 1.1.1 Preparation for Concrete Repairs shall conform with NHDOT items 512.01 and 512.02 as applicable.

Add 3.2.5:

Patching and grout material shall be one of the products from the NHDOT Qualified Products List for Fast Set Non-Shrink Patching Mortar.

BRIDGE RAIL

The following Changes have been made to this section:

Add to 2.6:

2.6.2 Components of the bridge railing system shall be anodized to a black (hard satin finish) color, Federal Standard 595 Color No. 27038. The anodic coating shall be Architectural Class I with a minimum thickness of 0.7 mils and a minimum weight of 35 mg./sq. in.

Samples from production lots of finished material, as selected by the Engineer, shall be tested in accordance with the following ASTM Specifications available from the American Society for Testing and Materials, 1916 Race Street, Philadelphia, Pennsylvania:

- ASTM B137 Coating Weight
 ASTM B244 Coating Thickness
- 3. ASTM B 136 Sealing

Color range samples shall be submitted by the selected finisher for the Engineer's approval before proceeding with production. All the color should be obtained from one source. These samples shall be used for comparison purposes during production finishing, and shall be of actual sections large enough so that good comparisons can be made to establish the limits of the allowable color shade range. Material outside the allowable color shade range, as determined by the Engineer, will be rejected. The final color shall be checked with the powder coated product prior to production to match the colors as closely as possible.

2.6.3 Bridge Rail shall be 3-bar aluminum rail anodized black with balusters only on the railing that is mounted to the bridge. Rail shall conform with NHDOT item 563.739 but costs for all rail and appurtenances shall be included in the total lump sum bid.

Contractor is referred to NHDOT Standard Detail Sheets titled: "Bridge Rail Details (3-Bar Aluminum)", "Approach Rail Detail (3-Bar Aluminum) Use with brush curb", "Bridge Rail Splice Bar Detail – Aluminum", and "Aluminum Baluster Details".

BRIDGE APPROACH RAIL

The following Changes have been made to this section:

Add 2.3:

2.3.1 Components of the bridge railing system shall be anodized to a black (hard satin finish) color, Federal Standard 595 Color No. 27038. The anodic coating shall be Architectural Class I with a minimum thickness of 0.7 mils and a minimum weight of 35 mg./sq. in.

Samples from production lots of finished material, as selected by the Engineer, shall be tested in accordance with the following ASTM Specifications available from the American Society for Testing and Materials, 1916 Race Street, Philadelphia, Pennsylvania:

- 1. ASTM B137 Coating Weight 2. ASTM B244 Coating Thickness
- 3. **ASTM B 136** Sealing

Color range samples shall be submitted by the selected finisher for the Engineer's approval before proceeding with production. All the color should be obtained from one source. These samples shall be used for comparison purposes during production finishing, and shall be of actual sections large enough so that good comparisons can be made to establish the limits of the allowable color shade range. Material outside the allowable color shade range, as determined by the Engineer, will be rejected. The final color shall be checked with the powder coated product prior to production to match the colors as closely as possible.

2.3.2 Bridge Approach Rail shall be 3-bar aluminum rail anodized black with no balusters. Approach Rail shall conform with NHDOT item 565.739 but costs for all rail and appurtenances shall be included in the total lump sum bid.

Contractor is referred to NHDOT Standard Detail Sheets titled: "Bridge Rail Details (3-Bar Aluminum)", "Approach Rail Detail (3-Bar Aluminum) Use with brush curb", "Bridge Rail Splice Bar Detail – Aluminum", and "Aluminum Baluster Details".

GUARDRAIL

The following Changes have been made to this section:

Add 1.1.1.1:

Adjustments necessary to the post spacing of the w-beam approach rail to accommodate mating of the new bridge approach rail transition sections to the existing w-beam guardrail shall be included in the Base Bid.

<u>Add</u> 2.4.4:

For Alternate #1, rail shall be galvanized in accordance with section 2.4 and painted black in the shop.

Add 2.4.5:

For Alternate #1, hardware shall be galvanized in accordance with section 2.4 and painted black in the field.

UNIFORMED OFFICERS AND FLAGGERS

The following Changes have been made to this section:

Add 1.1.1.1:

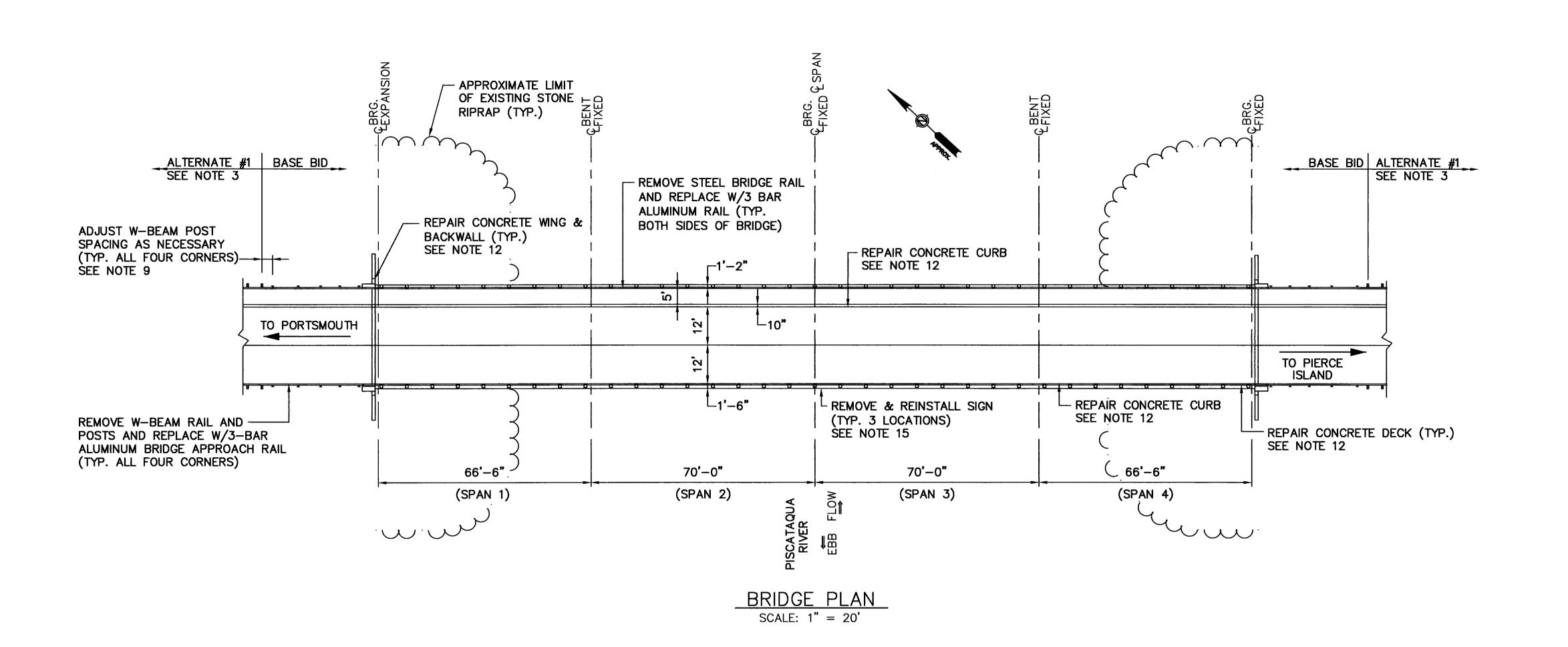
An Allowance has been included on the Proposal Form that is intended to be sufficient to cover the payment of police officers used for the direction and control of traffic for the project duration. The Contractor shall be responsible for the scheduling, direction and supervision of Traffic Officers.

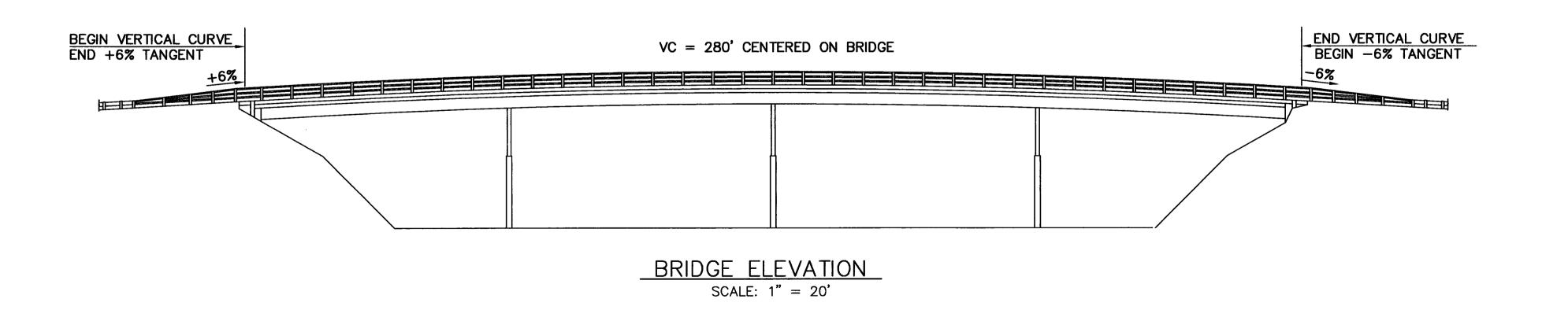
The hourly rate was calculated using the following math:

6 week duration x 5 days/week x 9 hours/day x \$50.10/hour = \$14,000 (rounded value)

A line item is included on the Proposal Form to receive a hourly rate bid for the use of flaggers for direction and control of traffic. This line item is included in the event that police officers are not required by the City.

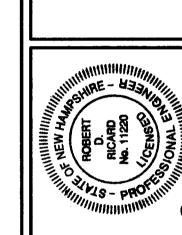
See section 2.7 of the General Requirements for more information.



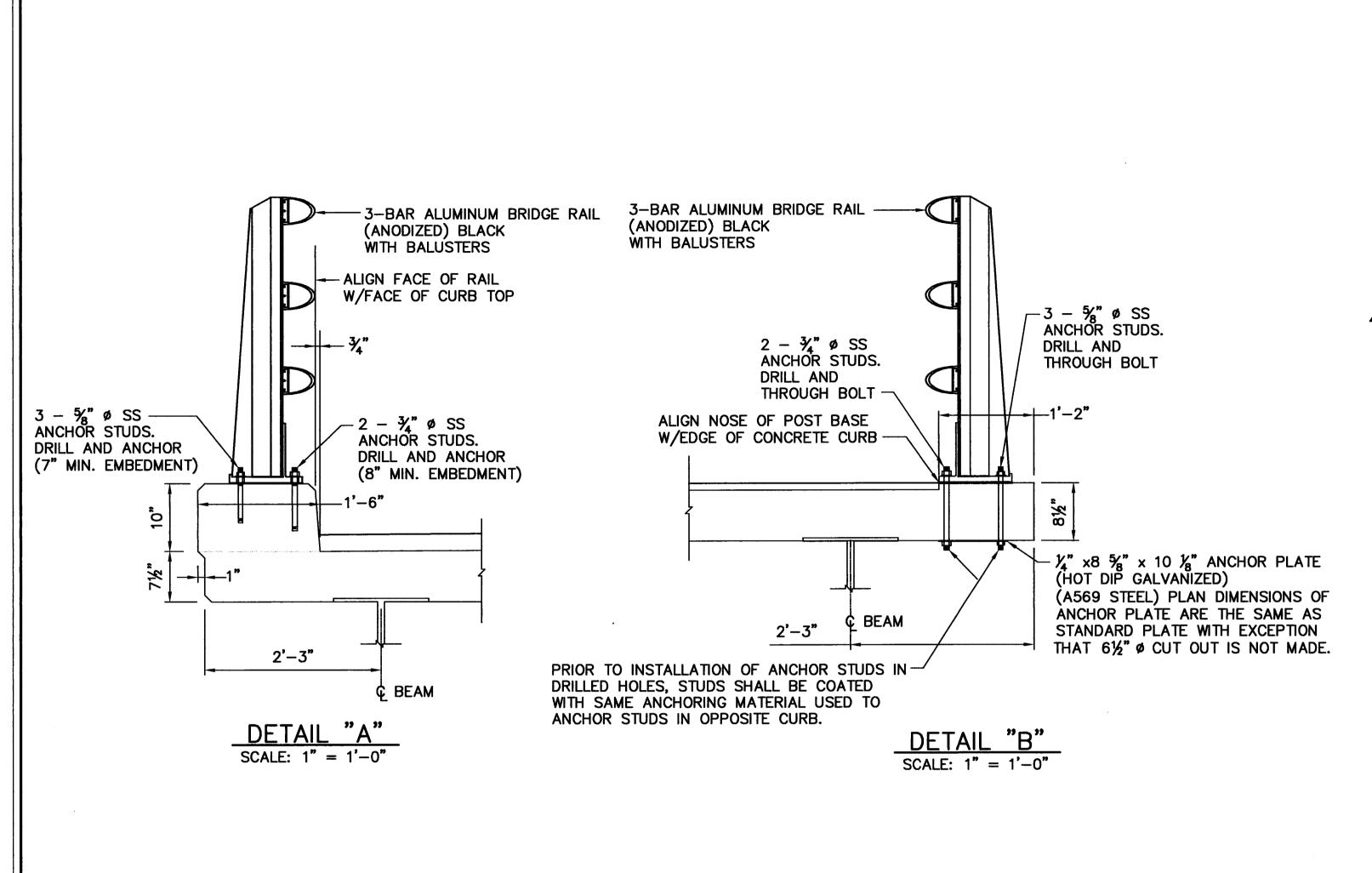


	PIERCE ISLAND BRIDGE	RAIL REPLACEMENT
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SCALE: 1' = 20'	JOB NO. <i>090147</i>
DATE: JULY 2009	DWG.

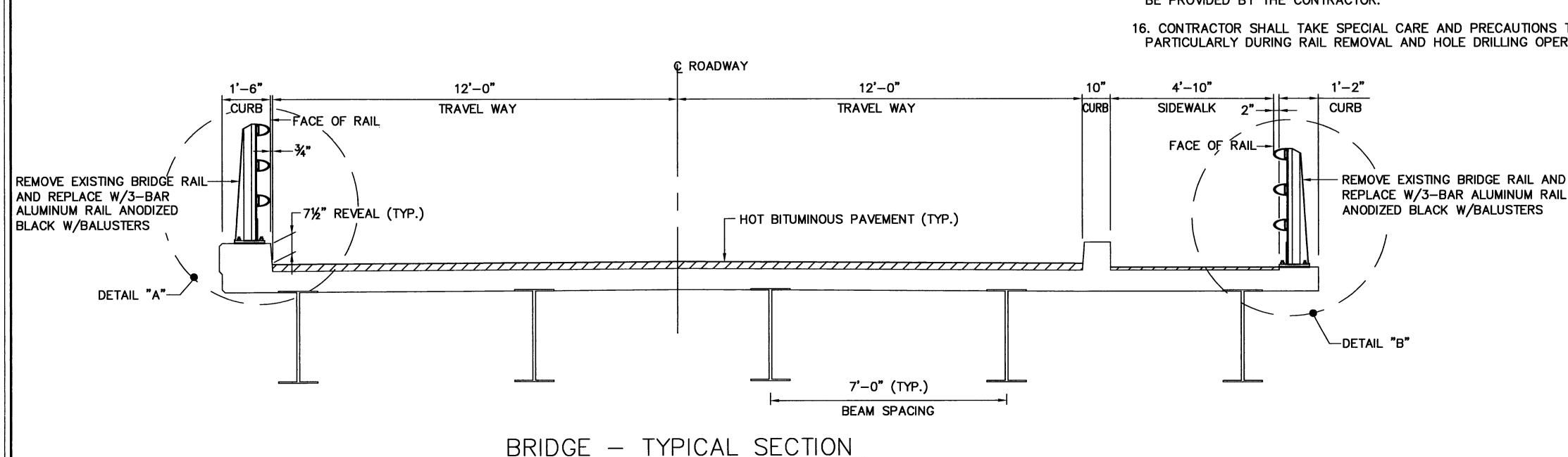


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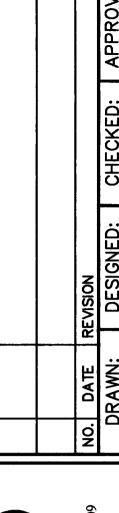


GENERAL NOTES

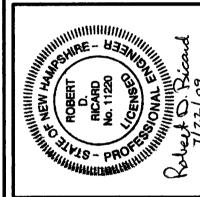
- 1. SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, FOURTH EDITION WITH INTERIM SPECIFICATIONS THROUGH 2008. NHDOT STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION, 2006 NHDOT STANDARD PLANS FOR ROAD & BRIDGE CONSTRUCTION, W/ LATEST REVISIONS
- 2. THE CONTRACTOR SHALL BE AWARE THAT ALL EXISTING STRUCTURE DIMENSIONS AND ELEVATIONS SHOWN ON THESE PLANS ARE BASED UPON THE ORIGINAL BRIDGE PLANS AND DO NOT NECESSARILY REFLECT THE "AS-BUILT" MEASUREMENTS. NO FIELD SURVEY HAS BEEN COMPLETED FOR THIS PROJECT. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS OF THE EXISTING STRUCTURE AND SHOULD BE PREPARED TO MAKE ANY ADJUSTMENTS AS REQUIRED TO PERFORM THE WORK AND PROPERLY FIT THE NEW WORK TO THE EXISTING BRIDGE.
- 3. BID ALTERNATE #1 SHALL INCLUDE REPLACING ALL W-BEAM STEEL OUTSIDE APPROACH RAIL REPLACEMENT LIMITS WITH NEW W-BEAM, GALVANIZED AND PAINTED BLACK. NEW W-BEAM FASTENING HARDWARE, BOLTS, WASHERS, NUTS, ETC SHALL ALSO BE INCLUDED AND SHALL BE GALVANIZED PRIOR TO BEING PAINTED BLACK IN THE FIELD. IT IS EXPECTED THAT THE EXISTING WOOD POSTS AND WOOD OFFSET BLOCKS WILL BE REUSED EXCEPT FOR A LIMITED NUMBER THAT ARE DAMAGED. DAMAGED POSTS AND BLOCKS SHALL BE REPLACED WITH NEW TIMBER STOCK AT THE DIRECTION OF THE ENGINEER.
- 4. BASE BID SHALL INCLUDE ALL COSTS OF DESIGN, DRAWINGS, FABRICATION, DELIVERY AND INSTALLATION OF THE 3-BAR ALUMINUM BRIDGE AND APPROACH RAILS AND ANY INCIDENTALS NECESSARY TO FURNISH THE PRODUCT COMPLETE IN-PLACE. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL SHOWING THE RAIL POST SPACING, RAIL BENDS, CONNECTION HARDWARE AND RAIL SPLICE LOCATIONS. ALL OTHER WORK AS NOTED ON THE PLANS OR REASONABLY INFERRED TO BE NECESSARY FOR A COMPLETE PROJECT SHALL BE INCLUDED IN THE BASE BID.
- 5. ADJUSTING, ALTERING OR RELOCATING THE PROPERTY OF ANY PUBLIC UTILITY SHALL BE DONE BY THE OWNER, NOT A PART OF THIS CONTRACT. NO RELOCATION OF ANY UTILITY, EITHER BURIED OR AERIAL, HAS BEEN PLANNED.
- 6. THE CONTRACTOR MAY USE A PORTION OF THE PARKING AREA ADJACENT TO THE BOAT RAMP ON PIERCE ISLAND FOR MATERIAL AND EQUIPMENT STORAGE. THE AREA AVAILABLE FOR THE CONTRACTOR'S USE WILL BE DESIGNATED BY THE CITY PRIOR TO THE BEGINNING OF CONSTRUCTION OPERATIONS.
- 7. THE EXISTING STEEL BRIDGE RAIL AND ITS ATTACHMENT COMPONENTS SHALL BECOME PROPERTY OF THE CONTRACTOR UPON REMOVAL FROM THE BRIDGE.
- 8. ALL W-BEAM RAIL, TIMBER POSTS, OFFSET BLOCKS AND FASTENING HARDWARE THAT IS REMOVED SHALL BE SALVAGED TO THE CITY OF PORTSMOUTH. CONTRACTOR SHALL BE RESPONSIBLE FOR TRANSPORTATION OF THE SALVAGED RAIL MATERIALS FROM THE PROJECT SITE TO THE PUBLIC WORKS FACILITY AT 680 PEVERLY HILL ROAD.
- 9. CONTRACTOR SHALL BE PREPARED TO ADJUST THE POST SPACING OF THE W-BEAM APPROACH RAIL TO ACCOMMODATE MATING OF THE NEW BRIDGE APPROACH RAIL TRANSITION SECTIONS TO THE EXISTING W-BEAM GUARDRAIL.
- 10. RAILING MOUNTED TO BOTH SIDES OF THE BRIDGE SHALL HAVE BALUSTERS. APPROACH RAILING SHALL NOT HAVE BALUSTERS.
- 11. ALL RAIL POSTS AND BALUSTERS SHALL BE VERTICAL.
- 12. AREAS OF DAMAGED CONCRETE CURB, DECK. BACKWALLS AND WINGWALLS SHALL BE PREPARED FOR REPAIRS PER SECTION 512 INCLUDING CONCRETE REMOVAL LIMITS RELATIVE TO THE EXPOSURE OF REINFORCING STEEL. PATCHING AND GROUT MATERIAL SHALL BE ONE OF THE PRODUCTS FROM THE NHDOT QUALIFIED PRODUCTS LIST FOR FAST SET NON-SHRINK PATCHING MORTAR.
- 13. EMPTY HOLES LEFT IN THE CONCRETE FOLLOWING THE REMOVAL OF THE EXISTING CONCRETE BRIDGE RAIL SHALL BE FILLED WITH THE SAME PATCHING MORTAR USED TO REPAIR DAMAGED SECTIONS OF CONCRETE CURBING.
- 14. THE 3/4-INCH AND 5/8-INCH STAINLESS STEEL RAIL POST ANCHOR STUDS SHALL BE CAPABLE OF DEVELOPING PULLOUT STRENGTHS OF 32KIP AND 24KIP RESPECTIVELY. THE ANCHORING MATERIAL SHALL BE CHOSEN BY THE CONTRACTOR FROM THE NHDOT PRE-QUALIFIED PRODUCTS LIST FOR ANCHOR BOLTS W/ RESIN ADHESIVE AND SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL WITH ACCOMPANYING PRODUCT LITERATURE AND CÉRTIFICATION FROM THE MANUFACTURER THAT THE SUPPLIED SYSTEM (MATERIALS, SIZE, EMBEDMENT, CAPACITY) MEETS THE DESIGN REQUIREMENTS SPECIFIED (IE PULLOUT STRENGTH).
- 15. THE THREE SIGNS THAT ARE CURRENTLY ATTACHED TO THE BRIDGE RAIL SHALL BE REMOVED BY THE CONTRACTOR AND SALVAGED TO THE CITY. THE CITY WILL FABRICATE NEW SIGNS OF SIMILAR MATERIAL AND SIZE FOR THE CONTRACTOR TO ATTACH TO THE NEW BRIDGE RAIL. METHOD OF ATTACHMENT TO BE APPROVED BY THE ENGINEER. ATTACHMENT HARDWARE TO BE PROVIDED BY THE CONTRACTOR.
- 16. CONTRACTOR SHALL TAKE SPECIAL CARE AND PRECAUTIONS TO ENSURE THAT NO DEBRIS FALLS INTO THE WATERWAY, PARTICULARLY DURING RAIL REMOVAL AND HOLE DRILLING OPERATIONS.



SCALE: 1/2" = 1'-0"







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	SCALE: AS NOTED	JOB NO. 090147
	DATE: JULY 2009	DWG.