#### CONTRACT DOCUMENTS AND SPECIFICATIONS

for

# RANGER WAY STREETSCAPE IMPROVEMENTS Bid #16-14

City of Portsmouth, New Hampshire John P. Bohenko, City Manager

Prepared by:

City of Portsmouth Engineering Division Public Works Department

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 $\begin{array}{l} ATTACHMENT\ A-Compliance\ with\ Laws\ and\ Regulations\\ ATTACHMENT\ B-Davis\ Bacon\ Wage\ Decision \end{array}$ 

City of Portsmouth Portsmouth, New Hampshire Department of Public Works

#### RANGER WAY STREETSCAPE IMPROVEMENTS

#### INVITATION TO BID

<u>Sealed</u> bid proposals, <u>plainly marked</u>, <u>Ranger Way Streetscape Improvements</u>, Bid Proposal #16-14 <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 **Tuesday**, **August 20, 2013** at 2:00 p.m.; at which time all bids will be publicly opened and read aloud.

There will be a mandatory pre-bid meeting on <u>Thursday</u>, <u>August 8</u>, <u>2013 at 2:00 p.m</u>. 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.

The project consists of new concrete sidewalks, reconstruction of drainage system, relocation of existing fences and signage, granite curbing, creation of on street parking, reconstruction and paving of the entire roadway, and landscaping. Total project length is approximately 1100 feet.

Work may begin at any time on or after **Monday, September 16, 2013**. The work must be substantially complete prior to **Wednesday, November 27, 2013**. Final Completion of the project must be complete by **Wednesday, December 11, 2013**. Liquidated damages shall be assessed at \$300.00 per day. Hours of work will be 7AM to 5 PM weekdays. Work will not be allowed on holidays without prior City approval.

The Contractor will be required to keep roadways and sidewalks passable for the public to the maximum degree possible. The Contractor will also be responsible for ensuring that the public will be able to access the nearby parks and residences at all times.

The General Contractor for this project must be <u>Pre-qualified with NHDOT for Road Construction</u>. All electrical work on this project, including conduit, will be installed under the supervision of a New Hampshire Licensed Electrician. An electrical permit is required prior to any project work being completed.

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

Specifications and plan sets may be obtained from the City's website: <a href="http://www.cityofportsmouth.com/finance/purchasing.htm">http://www.cityofportsmouth.com/finance/purchasing.htm</a> Addenda to this project, if any, including written answers to questions, will not be provided directly to vendors, but will be posted by 4:00 p.m., on **Wednesday**, **August 14, 2013** on the City of Portsmouth Website under the project heading.

The City reserves the right, after bid opening and prior to award of the contract, to modify the amount of the work in the event that bids exceed budgeted amounts. The City of Portsmouth further 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. Also, the City reserves the right to approve or deny subcontractors for this project.

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 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.

This project is funded with Community Development Block Grant funds through a grant from the U.S. Department of Housing and Urban Development. Wage rates for all project labor will conform to federal Davis-Bacon wage rates (see Attachment 1). All work must be completed in accordance with the Federal Labor Standards Provisions, Equal Opportunity Act, and the Copeland Anti-Kickback Act.

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.

If you have any questions, please contact the Finance/Purchasing Department at the following number: 603-610-7227.

#### INSTRUCTIONS TO BIDDERS

#### BIDDING REQUIREMENTS AND CONDITIONS

#### 1. Special Notice to Bidders

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 by Wednesday, August 14, 2013 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. Interpretation of Quantities in Bid Schedules

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. Preparation of Proposal

- 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. Nonconforming Proposals

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. Proposal Guaranty

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 reject the bid.

#### 8. Delivery of Proposals

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. Disqualification of Bidders

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 pre-qualified contractor under the classification of Road Construction;
- 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. Material Guaranty and Samples

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. Consideration of Proposals

After the proposals are opened and read, they will be compared on the basis of the total price for all sections of 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.

#### 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.

#### 3. Reservation of Rights

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. The Owner further reserves the right to conduct such investigations of the contractor's history, financial resources, and other qualifications as it deems necessary to determine whether bidder is qualified to do the work. Bidder may be asked to execute releases. Failure to execute a release upon request may result in disqualification.

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.

The City reserves the right, after bid opening and prior to award of the contract, to modify the amount of the work in the event that bids exceed budgeted amounts.

#### 4. Return of Proposal Guaranty

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.

#### Contract Bonds

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

- A performance bond in the amount of 100 percent of the contract amount.
- 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 to provide acceptable bonds and proof of insurance 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 City may exercise its reserved rights including the rejection of all bids or re-advertisement.

#### PROPOSAL FORM

#### RANGER WAY STREETSCAPE IMPROVEMENTS

#### 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 shall identify the Landscape subcontractor to be used for the project:

The bidder understands that at the time of contract signing the successful bidder shall submit certification from the Landscape subcontractor that type, number and size of trees specified has been located, acquired and set aside so that they will be available for installation at the end of the construction phase.

6. 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 Director of Public Works. 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 therefore the following item prices, to wit:

## PROPOSAL FORM (continued)

#### THIS PROJECT SHALL BE BID BY UNIT PRICES:

11115	ESTIMATED	n ill b	L DID DT CIVITTRICES.	UNIT PRICE IN	UNIT PRICE IN	ITEM TOTAL
ITEM NO.	QUANTITY	UNIT	DESCRIPTION	WORDS	FIGURES	IN FIGURES
201.21	14	EA	Small Tree Removal	\$		\$
201.31	6	EA	Tree Pruning, Small Trees	\$		\$
202.41	60	LF	Removal of Existing Pipe, 0-24" Diameter	\$		\$
202.5	1	EA	Removal of Catch Basins	\$		\$
203.1	2820	CY	Common Excavation	\$		\$
203.6	30	CY	Embankment in Place	\$		\$
206.19	10	CY	Common Structure Excavation - Exploratory	\$		\$
206.2	42	CY	Rock Structure Excavation	\$		\$
214	1	U	Fine Grading	\$		\$
304.2	1050	CY	Gravel	\$		\$
304.3	1020	CY	Crushed Gravel	\$		\$
403.11	909	T	Hot Bituminous Pavement (Machine Method)	\$		\$
403.12	53	T	Hot Bituminous Pavement (Hand Method)	\$		\$
417	78	SY	Cold Planing Bituminous Surfaces	\$		\$
520.2	52	CY	Concrete Class B	\$		\$
603.82212	32	LF	12" Plastic Pipe (Smooth Interior) - HDPE	\$		\$
603.82215	247	LF	15" Plastic Pipe (Smooth Interior) - HDPE	\$		\$
604.12	4	EA	Catch Basin Type B - 4' Diameter	\$		\$
604.324	4	EA	Drainage Manhole 4' Diameter	\$		\$
604.51	2	LF	Reconstructing/Adjusting Sewer Manholes	\$		\$
604.52	7	LF	Reconstructing/Adjusting Drainage Manholes	\$		\$
604.529	1	EA	Core Existing Drainage Manhole	\$		\$
607.93	620	LF	Resetting Chain Link Fence w/Vinyl Coated Steel Fabric	\$		\$
607.97	131	LF	Resetting Wood Rail Fence	\$		\$
608.24	302	SY	4" Fiber Reinforced Concrete Sidewalk	\$		\$

ITEM NO.	ESTIMATED QUANTITY	UNIT	DESCRIPTION 6" Reinforced Concrete	UNIT PRICE IN WORDS	UNIT PRICE IN FIGURES	ITEM TOTAL IN FIGURES
608.26	46	SY	Sidewalk	:	\$	\$
608.52	6	EA	Detectable Warning Devices	;	\$	\$
609.01	944	LF	Straight Granite Curb	:	\$	\$
609.02	70	LF	Curved Granite Curb	:	\$	\$
609.5	197	LF	Reset Granite Curb	:	\$	\$
611.90001	1	EA	Adjusting Water Valve Boxes	:	\$	\$
614.522	10	EA	Molded Pull Box 13" x 24"	:	\$	\$
614.72114	646	LF	2" PVC Plastic Conduit, Schedule 40	:	\$	\$
614.72118	133	LF	2" PVC Plastic Conduit, Schedule 80	:	\$	\$
615.03	14	SF	Traffic Sign Type C	;	\$	\$
615.034	5	U	Relocating Traffic Sign Type C		\$	\$
615.06	9	SF	Traffic Sign Type CC	;	\$	\$
619.1	1	LS	Maintenance of Traffic	;	\$	\$
628.2	837	LF	Sawed Bituminous Pavement	;	\$	\$
632.0104	2523	LF	Retroreflective Paint Pave. Marking, 4" Line	;	\$	\$
632.3112	286	LF	Retroreflective Thermoplas. Pave. Marking, 12" Line	:	\$	\$
641	60	CY	Loam		\$	\$
645.7	1	LS	Stormwater Pollution Prevention Plan (SWPPP)	:	\$	\$
645.71	42	HR	Monitoring SWPPP and Erosion Control	:	\$	\$
646.31	342	SY	Turf Establishment with Mulch and Tackifiers	:	\$	\$
652.39	4	EA	Ginko Biloba 'Autumn Gold' 3-3.5" CAL	;	\$	\$
652 66	2	EΑ	Quercus Robur X Quercus Alba 'Crimschmidt' 3-3.5" CAL		\$	¢
652.66	2	EA	Ulmus Americana		\$ \$	<b>.</b>
652.96	2	EA	'Princeton' Elm 3-3.5" CAL			φ
658.1	2	EA	Transplant Tree		\$	\$
692	1	LS	Mobilization Misc. Temporary Erosion &	Two-thousand	\$	\$
699		\$	Sediment Control	dollars	\$	\$ 2000.00

#### To Bidder:

The City reserves the right, after bid opening and prior to award of the contract, to modify the amount of the work in the event that bids exceed budgeted amounts and/or easements and agreements from one or more impacted property owners are not received.

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.

#### TOTAL FOR PROJECT AND BASIS OF AWARD

In Figures	\$	
In Words	\$	

The undersigned agrees that for extra work, if any, performed in accordance with the terms and provisions of the Contract Documents, the bidder will accept compensation as stipulated therein.

## **Certification Regarding Debarment, Suspension, and Other Responsibility Matters – Primary Covered Transactions**

- 1. The prospective primary participant certifies to the best of its knowledge and belief, that it and all its principals: a. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency; b. Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statues or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property; c. Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State, or local) with commission of any of the offenses enumerated in paragraph 1b of this certification; and d. Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.
- 2. Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

Date:	
	Bv:
Company	By:Signature
	Title:
Business Address	
City, State, Zip Code	Telephone:
erry, state, zip code	receptione.
By: Signature & Title	
The Bidder has received and acknowledged Addenda No	through
All Bids are to be submitted on this form and in a with the Bidder's name and address and the Projectorm.	
In order to follow the City's sustainability practices, future Please provide an email address as to where I could email for your in advance for your cooperation.	
Email Address:	

#### **BID SECURITY BOND**

(This format provided for convenience, actual Bid Bond is acceptable in lieu of, if compatible.)
KNOW ALL MEN BY THESE PRESENTS, that we the undersigned
, as Principal, and
, as Surety, are hereby
held and firmly bound unto
IN THE SUM OF
as liquidated damages for payment of which, well and truly to be made we hereby jointly and severally bind ourselves, our heirs, executors, administrators, successors and assigns.
The condition of this obligation is such that whereas the Principal has submitted to the
A CERTAIN Bid attached hereto and hereby made a part hereof to enter into a contract in writing, hereinafte referred to as the "AGREEMENT" and or "CONTRACT", for

#### 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 WITNES	S WHEREOF, the par	rties hereto have d	luly executed
this bond on	the	day of	, 20
	(Name of Prin	L.S.	
(SEAL)			
	BY		
	(Name of Surety)		
	DV		

#### STATEMENT OF BIDDER'S QUALIFICATIONS

## Supply with Bid

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

1.	Name of Bidder
2.	Permanent Main Office Address
3.	Form of Entity
4.	When Organized
5.	Where Organized
6. 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. dates	Contracts on hand; (schedule these, showing gross amount of each contract and the approximate anticipated of completion).
8.	General character of work performed by your company.
9.	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 Contract Documents?(no)(yes). If so, where and why?
12. the mo	List the most important contracts recently executed by your company, stating approximate cost for each, and onth and year completed.
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.	List any subcontractors whom you would expect to use for the following
	(unless this work is to be done by your own organization).
	a. Paving
	b. Concrete Flatwork
	c. Brick Pavers
	d. Curbing
	e. Electrical
	f. Drainage
	g. Landscapers
The	City reserves the right to disallow any subcontractor.
16.	With what banks do you do business?
	<ul><li>a. Do you grant the Owner permission to contact this/these institutions?</li><li>(yes)(no).</li></ul>
days	b. Latest Financial Statements, certified audited if available, prepared by an independent certified public intant, may be requested by Owner. If requested, such statements must be provided within five (5) business or the bid proposal will be rejected. Certified Audited Statements are preferred. Internal statements may be need only if independent statements were not prepared.
Dated	1 at this day of, 20
	Name of Bidder
	BY
	TITLE
State	of
Count	ty of
	being duly sworn, deposes and
says t	hat the bidder isof(Name of Organization)
and a	nswers to the foregoing questions and all statements contained therein are true and correct.
	Sworn to before me thisday of, 20
	Notary of Public commission expires

#### **CONTRACT AGREEMENT**

#### RANGER WAY STREETSCAPE IMPROVEMENTS

THIS AGREEMENT made as of the _	day of	in the year <b>2013</b> , by and
between the City of Portsmouth, New	Hampshire (hereina	fter call the Owner) and
(hereina	after called the Cont	ractor),
,		

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 - The work will commence in accordance with the Notice to Proceed. All work shall be substantially completed no later than Wednesday, November 27, 2013. Final completion shall be accomplished prior to Wednesday, December 11, 2013.

**ARTICLE IV** - CONTRACT PRICE - Owner shall pay Contractor for performance of the work 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 **ten percent** of the Contract Price as specified 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 **three hundred dollars** (\$300) 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
- 8.5 Insurance Requirements
- 8.6 Standard and Technical Specifications
- 8.7 Drawings
- 8.8 Attachment A Compliance with Laws and Regulations and Attachment B Davis Bacon Wage Decision
- 8.9 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 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 other 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.

CONTRACT AGREEMENT (continued)

#### **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.
- 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.

**BIDDER:** 

IN WITNESS WHEREOF, the parties hereunto executed this

AGREEMENT the day and year first above written.

#### CITY OF PORTSMOUTH, N.H.

BY:		
	John P. Bohenko	

TITLE: City Manager

#### **NOTICE OF INTENT TO AWARD**

RANGER WAY STREETSCAPE IMPROVEMENTS
IN AS MUCH as you were the low responsible bidder for work entitled:
TO:
Date:

You are hereby notified that the City intends to award the aforesaid project to you.

Immediately take the necessary steps to execute the Contract and to provide required bonds and proof of insurance within ten (10) calendar days from the date of this Notice. In addition, you must deliver to the Owner the certification from the Landscape subcontractor that type, number and size of trees specified has been located, acquired and set aside so that they will be available for installation at the end of the construction phase.

The City reserves the right to revoke this Notice if you fail to take the necessary steps to execute this Contract.

City of Portsmouth Portsmouth, New Hampshire

Judie Belanger, Finance Director

## NOTICE TO PROCEED

DATE:

## RANGER WAY STREETSCAPE IMPROVEMENTS

TO:	
YOU ARE HEREBY NOTIFIED TO COMMENCE WORK IN ACCOU	RDANCE
WITH THE AGREEMENT DATED, 201	3 AND ALL
WORK SHALL BE COMPLETED BY WEDNESDAY, DECEMBER 1	11, 2013.
CITY OF PORTSMOUTH, N.H.	
BY: Peter H. Rice, PE	
TITLE: Public Works Director	
ACCEPTANCE OF NOTICE	
RECEIPT OF THE ABOVE NOTICE TO PROCEED IS HEREBY ACKNOWLEDGED BY	
This theday of 20	
By:	
Title:	

## CHANGE ORDER

Change Order Number x		Date of Issuance xxxxxx		
Owner: CITY OF POR	RTSMOUTH, N.H			
Contractor:				
You are directed to ma	ike the following ch	anges in the Contract Documen	ts:	
Description:				
Purpose of Change Or	der:			
Attachments:				
CHANGE IN CONTR	ACT PRICE	CHANGE IN CONTRACT	ГІМЕ	
Original Contract Price: \$		Original Completion Date:		
Contract Price prior to this Change Order: \$		Contract date prior to this Change Order:		
Net Increase or Decreathis Change Order:	ase of	Net Increase or Decrease of this Change Order:		
Contract Price with all approved Change Orders:		Contract Due date with all approved Change Orders:		
RECOMMENDED:		APPROVED:	APPROVED:	
by	by	by	by	
PW Director	City Finance	City Manager	Contractor	

#### PERFORMANCE BOND

(This format provided for convenience, actual Performance  Bond is acceptable in lieu, if compatible)
Bond is acceptable in nea, if companions
Bond Number
KNOW ALL MEN BY THESE PRESENTS
as Principal, hereinafter called Contractor, and
hereof, and is hereinafter referred to as the Contract.  NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that if the Contractor shall well and faithfully do and perform the things agreed by him to be done and performed, according to the terms of said Contract and such alterations as may be made in said Contract during progress work, and shall further indemnify and save harmless the said Owner in accordance with the Contract and shall remedy without cost to the Owner any defect which may develop within one year from the time of completion and acceptance of the work.
The Surety hereby waives notice of any alteration in work or extension of time made by the Owner or any of its agents or representatives.
Whenever Contractor shall be, and declared by Owner to be, in default under the Contract, the Owner having performed Owner's obligations thereunder, the Surety may promptly remedy the default, or shall promptly:
(1) Complete the Contract in accordance with its terms and conditions, or

#### PERFORMANCE BOND (continued)

(2) Obtain a bid or bids for submission to the Owner for completing the Contract in accordance with its terms and conditions, and upon determination by Owner and Surety of the lowest responsible bidder, arrange for a contract between such bidder and Owner and make available as work progresses (even though there should be a default or a succession of defaults under the contract of completion arranged under this paragraph) sufficient funds to pay the cost of completion less the balance of the contract price; but not exceeding, including other costs and damages for which the Surety may be liable hereunder, the amount set forth in the first paragraph hereof. The term "balance of the contract price", as used in this paragraph, shall mean the total amount payable by the Owner to Contractor under the Contract and any amendments thereto, less the amount paid by Owner to Contractor.

Any suit under this bond must be instituted before the expiration of (2) years from the date on which final payment under the contract falls due.

No right of action shall accrue on this bond to or for the use of any person or corporation other than the Owner named herein or the heirs, executors, administrators or successors of Owner.

Signed and sealed	this	_ day of	
A.D., 20			
In the presence of:			
		BY:	
(Witness)	(Principal)		
	(Surety Compa	ny)	
		BY:	
(Witness)	(Title) (Se	eal)	

#### 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.

#### **LABOR AND MATERIAL PAYMENT BOND**

(This format provided for convenience, actual Labor and Material Bond is acceptable in lieu, if compatible)

Bond Number
NOW ALL MEN BY THESE PRESENTS:
nat
s Principal, hereinafter called Contractor, and (Surety Company) a orporation organized and existing under the laws of the State of
and authorized to do business in the State of New Hampshire hereinafter called urety, are held and firmly bound unto the City of Portsmouth, N.H. Obligee, hereinafter called Owner, for the use nd benefit of claimants as herein below defined, in the
mount of Dollars (\$), for the payment whereof Principal and Surety bind nemselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these resents.
WHEREAS, Principal has by written agreement dated entered into a
ontract with Owner for Ranger Way Streetscape Improvements in accordance with drawings and pecifications prepared by CLD Consulting Engineers, Inc. on behalf of the City of Portsmouth Community Development Department, 1 Junkins Avenue, Portsmouth, N.H. 03801, which contract is by reference made a part ereof, and is hereinafter referred to as the Contract.
IOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that the Principal shall promptly make ayment to all claimants as hereinafter defined, for all labor and material used or reasonably required for use in the erformance of the Contract and for the hire of all equipment, tools, and all other things contracted for or used in onnection therewith, then this obligation shall be void, otherwise it shall remain in full force and effect, subject owever, to the following conditions:
(1) A claimant is defined as one having a direct contract with the Principal or, with a subcontractor of the rincipal for labor, material, equipment, or other things used or reasonably required for use in the performance of ne Contract. "Labor and material" shall include but not be limited to that part of water, gas, power, light, heat, oil not 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 laimant as herein defined, who has not been paid in full before the expiration of a period of ninety (90) days after he 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 justly due claimant, and have execution thereon. The Owner shall not be liable for the ayment of any such suit or any costs or expenses of any such suit, and principal and surety shall jointly and everally indemnify, defend and hold the Owner harmless for any such suit, costs or expenses.

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(3) No suit or action shall be commenced hereunder by any claimant:

#### LABOR AND MATERIAL PAYMENT BOND (continued)

(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 thi	is day of		, 20	In the presence of:
	BY:			
(Witness)	(Principal) (Seal)			
		_		
	(Surety Company)			
	BY:			
(Witness)		(Title)	(Seal)	

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 Peace)
in and for said County and State personally appeared, (Individual, Partner, or duly author)	orized representative of Corporate)
who, being duly sworn, according to law deposes and sa	ays that the cost of labor, material, and
equipment and outstanding claims and indebtedness 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: Ranger Way	Streetscape Improvements
	(Individual, Partner, or duly authorized representative of Corporate Contractor)
Sworn to and subscribed before me thisday of	

## **CONTRACTOR'S RELEASE**

KNOW ALL MEN BY THE	SE PRESENTS that	
(Contractor) of	, County of	and State of
	does h	ereby acknowledge
that	(C	Contractor)
has on this day had, and recei	ved from the CITY OF PORTSMOUTH	NEW HAMPSHIRE, final and completed
payment for the Construction	of:	
Ranger Way Streetscap	oe Improvements	
NOW THEREFORE, the said	I	
do/does by these present Portsmouth, New Hamps arising from or in connect all, and all manners of act dues, duties, sum and sur- covenants, contracts, agrical claims and demand, what New Hampshire, its successors and assign administrators) (it, its sur-	etion and actions, cause and causes ms of money, accounts, reckonings eements, promises, variances, dam tsoever in law of equity, or otherw essors and assigns, which (I, my h s) ever had, now have or which (I, ccessors and assigns) hereafter can	rever discharge the City of and from all claims and demands , and of and from of action and actions, suits, debts, s, bonds, bills, specifications, ages, judgments, extents, executions, ise, against the City of Portsmouth, eirs, executors, or administrators) (it,
IN WITNESS WHEREOF,	Contractor:	
	Ву:	
print name of witness:	Its Duly Authoriz	zed
Dated:		

#### **GENERAL REQUIREMENTS**

#### SCOPE OF WORK

#### 1. INTENT OF CONTRACT

The intent of the Contract is to provide for the construction and completion in every detail of the work described. 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. 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.

#### 2. INCIDENTAL WORK

Incidental work items for which separate payment is not measured includes, but is not limited to, the following items:

- a. Clearing, grubbing and stripping (unless otherwise paid for)
- b. Clean up
- c. Plugging existing sewers and manholes
- d. Signs (unless otherwise paid for)
- e. Mobilization/Demobilization (unless otherwise paid for)
- f. Restoration of property
- g. Cooperation with other contractors, abutters and utilities.
- h. Utility crossings, (unless otherwise paid for)
- i. Minor items such as replacement of fences, guardrails, rock wall, etc.
- j. Steel and/or wood sheeting as required.
- k. Accessories and fasteners or components required to make items paid for under unit prices or lump sum items complete and functional.
- 1. Construction survey layout.

#### 3. ALTERATION OF PLANS OR OF CHARACTER OF WORK

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.

#### 4. EXTRA WORK ITEMS

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 if such pay items are not applicable than at a price negotiated between the contractor and the Owner or at the unit bid price. If the Owner determines that extra work is to be performed, a change order will be issued.

#### 5. CHANGE ORDERS

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. The contractor shall be required to sign the change order and it shall be considered as part of the Contract documents.

#### 6. FINAL CLEANING UP

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.

The items prescribed herein will not be paid for separately, but shall be paid for as part of the total contract price.

#### 7. ERRORS AND INCONSISTENCY IN CONTRACT DOCUMENTS

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. Standard Specifications for Road & Bridge Construction will govern General Requirements.
- 2. Technical Specifications will govern Standard Specifications.
- 3. Plans will govern Technical Specifications, and General Requirements.

#### 8. CONSTRUCTION SURVEY LAYOUT

The Contractor shall perform all necessary layout work in order to construct all elements of the Project as shown on the Plans and specified in the Contract. This work shall include, but shall not be limited to, stakeout necessary for re-establishment of line and grade as earthwork operations progress, stakeout, layout of construction center line, and elevations as required for structures, fine grading, and paving. Prior to paving, the Contractor shall perform all work necessary to set the blue top stakes for fine grading.

The Contractor shall perform all required layout work with competent, qualified personnel to meet minimum Third-order, Class I survey accuracy and procedures.

#### CONTROL OF WORK

#### 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:
    - (i) First offense verbal warning
    - (ii) Second offense written warning
    - (iii) Third and subsequent liquidated damages will be charged for one working day.

#### 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.

#### CONTROL OF WORK (continued)

(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.

#### 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 paint with tree paint all scars made on fruit or ornamental trees by equipment, construction operations, or the removal of limbs larger than one inch in diameter. 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.

#### 3. MAINTENANCE DURING CONSTRUCTION

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.

#### 4. 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.

#### CONTROL OF WORK (continued)

(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.

#### 5. PERMITS

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.

#### 6. BARRICADES, WARNING SIGNS AND TRAFFIC OFFICERS

- (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. Roadway closed to traffic shall be protected by effective barricades. Obstructions shall be illuminated during hours of darkness. Suitable warning signs shall be provided to control and direct traffic in a proper manner, as approved by the Engineer.
- (b) The Contractor will be held responsible for all damage to the work from traffic, pedestrians, animals or any other cause due to lack of adequate controlling devices.
- (c) The Contractor shall provide such police officers or flaggers as the Engineer deems necessary for the direction and control of traffic within the site of project.
- (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.

### **TEMPORARY FACILITIES**

#### 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.

#### 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. TEMPORARY WATER

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.

### 4. TEMPORARY ELECTRICITY

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.

The Contractor shall be responsible for obtaining an electrical permit from the City Electrical Inspector.

#### **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

Coverage amounts may be met with excess policies

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.

#### 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 Insureds.

- 1) The contractor's insurance shall be primary in the event of a loss.
- 2) 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

#### MEASUREMENT AND PAYMENT

#### 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.
  - (1) 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.

### 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.

#### 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. PARTIAL PAYMENTS

Partial payments will be made on a monthly basis during the contract period. 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 such time as the work receives final acceptance.

#### 5. FINAL ACCEPTANCE

Upon due notice from the Contractor of presumptive completion of the entire project, the 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 Engineer will make the final acceptance and notify the Contractor in writing of this acceptance as of the date of the final inspection.

If, however, the inspection discloses any work in whole or in part, as being unsatisfactory, the 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 Engineer will make the final acceptance and notify the Contractor in writing of this acceptance as of the date of final inspection.

#### 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 may be waived, at the discretion of the City, 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.

#### 7. GENERAL GUARANTY AND WARRANTY OF TITLE

- (a) 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. 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.
- (b) 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.
- (c) 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.

#### 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.

### 9. TERMINATION OF CONTRACTOR'S RESPONSIBILITY

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 Section 8 above.

### STANDARD SPECIFICATIONS

The Standard Specifications for Road and Bridge Construction of the State of New Hampshire Department of Transportation and any Addenda shall apply but without regard to Section 100 "General Provisions" of those Standard Specifications and without regard to any of those NHDOT provisions that allow for an adjustment for changing fuel and asphalt prices.

# **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

201	Clearing and Grubbing
202	Removing Structures and Obstructions
203	Excavation and Embankment
206	Structural Excavation for Pipes and other Minor Structures
214	Fine Grading
304	Aggregate Base Courses
403	Hot Bituminous Pavement
410	Bituminous Surface Treatment
417	Cold Planing Bituminous Surfaces
520	Portland Cement Concrete
603	Culverts and Storm Drains
604	Manholes and Catch Basins
607	Fences
608	Sidewalks
609	New Curbing
614	Electrical Conduit
615	Traffic Signs
619	Maintenance of Traffic
628	Sawed Pavement
632	Reflective Pavement Markings
641	Loam
645	Erosion Control
646	Turf Establishment
650-658 inclusive	Planting / Transplanting
692	Mobilization
699	Miscellaneous Temporary Erosion and Sediment Control

These specifications are available on line at: <a href="http://webster.state.nh.us/dot/specifications/">http://webster.state.nh.us/dot/specifications/</a>

The above listed specifications are modified as set forth in the following Technical Specifications and Special Provisions.

Method of payment described in the Technical Specifications/Special Provisions herein shall supersede any methods described in the referenced standard specifications. All payments shall be subject to retainage and other terms and methods of payment set forth in the General Requirements.

### **CLEARING AND GRUBBING**

The following Changes have been made to this section:

**201.5 Basis of Payment.** Compensation under this item shall include the removal of trees in the areas designated by the Engineer, stumps, slash, brush, dust control, hauling, barricades, safety devices, temporary removal of detrimental objects and all tools, equipment, labor and other materials necessary to satisfactorily complete the work.

Remove and resetting of existing trees and bushes shall be covered under item 658.00.

	Payment will be made under:	
Pay Item		Pay Unit
201.21	Small Tree Removal – circumference less than 75" but greater than 12" at a point 4' off ground	Each
201.31	Tree Pruning, Small Trees	Each

# REMOVING STRUCTURES AND OBSTRUCTIONS

(Catchbasins and Pipes)

The following Changes have been made to this section:

**202.5 Basis of Payment**. The accepted quantity of removal of existing pipe shall be measured and paid by the linear foot of pipe removed regardless of pipe depth. Measurement shall extend to the exterior wall of associated structures and no payment shall be made for pipe extensions into structures. The accepted quantity of removal of existing structures shall be measured and paid by each structure regardless of structure depth.

There will be **no compensation under this item** for removal of the pavement surface, dust control, hauling, temporary removal of detrimental objects and all tools, equipment, labor and other materials necessary to satisfactorily complete the work.

Pavement removal and excavation down to the limits of the typical roadway subgrade shall be measured and paid under Pay Item 203.10 Common Excavation. All other excavation required to remove pipes or structures shall be considered incidental to the appropriate item below.

D 7/	Payment will be made under:	D 71.14
Pay Item		Pay Unit
202.41	Removal of Existing Pipe, 0 - 24" Diameter (drainage and sewer pipe)	Linear Foot
202.5	Removal of Catch Basins, drop inlets and manhole (drainage and sewer)	Each

### **EXCAVATION AND EMBANKMENT**

The provisions of Section 203 of the Standard Specifications shall apply with the following additions and modifications:

**203.4 Method of Measurement.** Exploratory excavations will be paid under item 206.19.

**<u>203.5 Basis of Payment.</u>** Payment shall be full compensation for furnishing all labor, materials and equipment necessary for excavation, backfilling, compaction, disposal of materials, and the protection of the utilities.

	Payment will be made under:	
Pay Item	·	Pay Unit
203.1	Common Excavation- includes pavement and existing sidewalks	Cubic Yard
203.6	Embankment-in-Place	Cubic Yard

# STRUCTURAL EXCAVATION FOR PIPES & OTHER MINOR STRUCTURES

The provisions of Section 206 of the Standard Specifications shall apply with the following additions and modifications:

**206 Method of Measurement.** Exploratory excavation, if ordered by the Engineer, shall be paid under Item 206.19. Any exploratory excavation by Contractor not authorized by the Engineer will not be eligible for compensation.

**<u>206 Basis of Payment.</u>** The accepted quantity of structure excavation will be paid for at the Contract unit price per cubic yard. No separate payment will be made for pre-blast and post-blast surveys or blasting monitoring work.

Exploratory excavation shall be backfilled with existing materials and compacted thoroughly. All costs shall be subsidiary to Item 206.19.

	Payment will be made under:	
Pay Item	•	Pay Unit
206.19	Common Structure Excavation - Exploratory	Cubic Yard
206.2	Rock Structure Excavation	Cubic Yard

# **FINE GRADING**

<u>214.5 Basis of Payment</u>. Payment shall be full compensation for furnishing all labor, materials and equipment necessary for fine grading also including grade stakes, supervision, and quality control.

Pay Item		Pay Unit
214	Fine Grading	Lump Sum

# **AGGREGATE BASE COURSES**

The following Changes have been made to this section:

**Aggregate.** Sources of Aggregate and preliminary test results shall be submitted ten working days prior to any placement of material on the job. Failure of these preliminary tests will be grounds for rejection of material from that source. Aggregates will be tested on the job and shall meet these specifications as the material is incorporated into the work.

All Measurements **shall be in-place compacted** quantities in accordance with the plans and specifications.

<u>304.50 Basis of Payment</u>. The cost of the all **laboratory testing** including compaction testing, at 1 test per 50' in areas to be designated by the Engineer, shall be the responsibility of the Contractor.

The accepted quantities of gravel and crushed gravel will be paid at the contract unit price per cubic yard, complete in place.

Pay Item		Pay Unit
304.2	Gravel	Cubic Yard
304.3	Crushed Gravel	Cubic Yard

# **HOT BITUMINOUS PAVEMENT**

The provisions of Section 403 of the Standard Specifications shall apply with the following additions and modifications:

# **Materials**

Pavement shall utilize a 50 gyration design mix.

# **Basis of Payment**

The accepted quantities of hot bituminous pavement will be paid for at the Item Bid Price per ton for the bituminous mixture, complete in place.

Tack coat shall be applied as required by the Standard Specifications and costs shall be subsidiary.

No adjustments for a sphalt costs "+ or -" or incentive bonuses will be made under this contract.

Pay Item		Pay Unit
403.11	Hot Bituminous Pavement (Machine Method)	Ton
403.12	Hot Bituminous Pavement (Hand Method)	Ton

# **COLD PLANING BITUMINOUS SURFACES**

The provisions of Section 417 of the Standard Specifications shall apply with the following additions and modifications:

# **Basis of Payment**

The accepted quantities of cold planing to the depth specified will be paid for at the contract unit price per square yard.

Payment will be made under:

Pay Item

417 Cold Planing Bituminous Surfaces Square Yard

## PORTLAND CEMENT CONCRETE

The provisions of Section 520 of the Standard Specifications shall apply with the following additions and modifications:

# **Basis of Payment**

See Section 609 curbing for concrete requirements for curb placement. The limits of concrete measured and paid shall be the neat lines as shown on the granite curb details on the construction plans. Any concrete outside the neat lines will not be eligible for payment. The accepted quantity of concrete shall be paid for at the contract unit price per cubic yard, complete in place.

Pay Item		<u>Pay Unit</u>
520.2	Concrete Class B	Cubic Yard

### **CULVERTS AND STORM DRAINS**

The following Changes have been made to this section:

<u>603.1 Description</u>: This work shall consist of the construction of culverts, storm drains, hereinafter referred to as "pipe" as shown on the plans, details, and specified herein.

<u>603.4 Method of Measurement</u>: Pipes will be measured by the linear foot in place within the limits specified below.

For measurement purposes the end of the pipe in closed structures will be considered at the inside face of the wall, and in masonry headwalls it will be considered to be at least the face of the headwall.

<u>603.50 Basis of Payment</u>: The accepted quantities of pipe for culverts, drains and sewers will be paid for at the contract unit price per linear foot, complete in place.

Payment for trench excavation and backfill to the established trench profile indicated on the plans with the exception of rock excavation, will be included in this item.

Backfilling of the trench shall be incidental to this item.

Should the Contractor elect to utilize "drag boxes" during the installation work, over cutting of the trench beyond the limits for excavation shown on the Typical Trench Details will be allowed to accommodate the boxes. However, no payment will be made for the excess excavation and backfill material beyond the dimensions as shown on the <u>Typical Trench Detail</u>. Payment will be made under:

Pay Item		Pay Unit
603.82212	12" Plastic Pipe ( Smooth Interior) HDPE	Linear Foot
603.82215	15" Plastic Pipe (Smooth Interior) HDPE	Linear Foot

### **MANHOLES AND CATCH BASINS**

The provisions of Section 604 of the Standard Specifications shall apply with the following additions and modifications:

<u>604.3 Construction Requirements.</u> Concrete Blocks shall not be used in any way in the construction or alteration of manholes or catch basins.

All manhole bases, barrel sections and top sections shall be marked, by the manufacturer, with the appropriate <u>manhole station</u> (and offset if applicable).

It is emphasized to the Contractor that drainage construction under this contract shall be coordinated with existing facilities so that continuous service and handling of existing flows is accomplished.

The outside surface of any masonry work for catch basins and manholes shall be plastered with mortar from 1/4 inch to 3/8 inch thick. The masonry shall be properly wetted before the plaster is applied. The plaster shall be carefully spread and toweled so that all cracks are thoroughly worked out. After hardening, the plaster shall be carefully checked by being tapped for bond and soundness

All brick masonry surfaces with mortar shall be waterproofed with one coat of DEHYDRATINE 6 TROWEL MASTIC, DEHYDRATINE 10 SEMI-MASTIC or approved equal.

<u>604.4 Method of Measurement</u>. Under this Subsection the following sections shall be amended as follows:

- Complete structures. Each catch basin and manhole will be measured per each complete.
- All castings or other appurtenances installed as shown on the plans or as required shall not be measured for payment.

**604.5 Basis of Payment.** The section shall be amended by adding the following:

The cost of furnishing and installing steps, installing reinforced steel concrete stubs and other appurtenances shall be considered as incidental to the structure and no separate payment will be made therefore.

The cost of excavation, with the exception of rock structure excavation, and backfill of all catch basins or manholes, either new, abandoned, or removed and/or replaced shall be included in the cost of the specific work for each type of structure.

The cost of resetting curb inlet stones shall be considered incidental to the cost of adjusting catch basins to grade and no separate payments will be made. The cost of delivering inlet stones and/or castings to approved sites shall be considered as incidental to the contract items involved.

The cost of maintaining flows in existing sewer lines and manholes and any maintenance and cleaning of said sewers that may be required as a result of new manhole installations shall be incidental to the related pay item and no separate payment for this work will be made.

The cost of connecting existing pipes to the structure (catch basin or manhole) shall be considered incidental to the new structure and no separate payment will be made.

The Cost of removing existing structures and pipes shall be incidental to catch basin, manhole, or pipe installation.

Pay Item		Pay Unit
604.12	Catch Basins- Type B (4' Diameter)	Each
604.324	Drainage Manhole (4' Diameter)	Each
604.4	Reconstructing/Adjusting CB's and DI's	Each
604.51	Reconstructing/Adjusting Sewer Manholes	Each
604.52	Reconstructing/Adjusting Drainage Manholes	Each
604.529	Core Existing Manhole	Each

### **FENCES**

The provisions of Section 607 of the Standard Specifications shall apply with the following additions and modifications:

Fences shall be re-located in the areas designated on General Plan. 72-hour notification to the property resident is required prior to the removal and resetting of any fence. Because the fence serves as a containment area for pets in most instances, all fences are required to be reinstalled within 24 hours of the removal of the existing fabric.

New rails, posts and hardware are to be included in each of the locations for chain link fencing. All other fence shall reuse existing materials. An alternate price for all new hardware, fabric and posts will be listed in the bid documents. All items included in this section shall include all materials, hardware, labor, equipment, specialty equipment and other necessary items to complete the installation of new or existing fences and related items.

Measurement shall be measured by the linear foot of fencing on a continuous line from the existing connecting post to the end of the installation including all pedestrian and driveway gates.

All posts on Item 607.93 shall use 3000 psi concrete to backfill fill each hole. Holes shall be dug or augered to a 3.5' depth, post set and backfilled with 3000 psi concrete to within 8" of existing surface area. Loam shall be placed on top of the posts once the concrete has cured as part of the project clean-up process.

<u>Pay Item</u>		<u>Pay Unit</u>
607.93	Resetting Chain Link Fence with Vinyl Coated Steel Fabric	Linear Foot
607.97	Resetting Wood Rail Fence	Linear Foot

### **SIDEWALKS**

The provisions of Section 608 of the Standard Specifications shall apply with the following additions and modifications:

1.01 <u>Scope of Work:</u> The work shall consist of construction of concrete sidewalks as shown on the plans or as directed in the field by the Engineer.

### 1.02 Methods of Construction:

- 1.02a All labor and materials shall conform to the State of New Hampshire Standard Specifications for Road and Bridge Construction, Section 608, 203 and 209 except as amended here.
- 1.02b All concrete shall be Class A, 4000-PSI after 28 days with 5 to 7 percent air entrained. The maximum concrete slump that will be allowed is 5, this may be tested by the engineer at any time. **All concrete will have polyfiber reinforcing.** Any concrete found not meeting this specification will be removed and repoured by the contractor with no additional expense to the owner. Expansion joints shall be 25' apart. Control joints shall be 5' apart and shall be ½ of the depth of the sidewalk (Up to 1 1/2" deep).
- 1.02c Minimum thickness shall be 4 inches (for 608.24) and 6 inches (for 608.26) unless approved by the engineer.
  - 1.02d The ends of all sidewalks at driveways shall be ramped at a maximum slope of 1:12.
- 1.02e All sidewalks shall have handicap ramps at street intersections or as located by the Engineer, built at a maximum slope of 1:12 and in accordance with the ADA Regulations (see plan details).
- 1.02f Excavation for new sidewalks shall be at a depth of 12 inches below finish grade. In areas not butting curbing or buildings the excavation shall be 6 inches wider on each side than the finished sidewalk width. At all drive crossings, the depth of excavation shall be increased accordingly. All unsuitable material shall be approved by the Engineer and removed and disposed of offsite at the Contractor's own expense. At no time will unsuitable material be left under sidewalk areas.
- 1.02g Handicapped ramps (at street intersections) shall be 6" deep, 4000 psi fiber mix reinforced with 6" x 6" x 10ga welded wire mesh with truncated dome panels (panels paid for under 608.52).

- 1.02h All exposed edges of sidewalks will be sealed with an approved Silane-Siloxane coating as specified under 534.3.4 (cost to be subsidiary to appropriate sidewalk item). Any sidewalks not meeting the test referenced in 534.3.4 will be recoated at no expense to the owner. Contractor will provide cut sheets on product before installation for engineers approval.
- 1.02I All sidewalk areas shall be thoroughly wetted and compacted prior to the pouring of any concrete. All sidewalks will be kept damp using wet burlap tarps or any other approved method for 24 hours after set up. Tarps will be staked down to prevent being blown off by wind gusts. Curing compounds will be considered an approved equal.
- 1.02j All sidewalks will be finished with a soft broom with the finish being transverse to the typical pedestrian path. After brooming, all edges will be finish edged.
- 1.02k Any sidewalks poured that have excessive "popcorning" on top or on the sides as determined by the engineer will not be approved or paid for.
  - 1.021 All joints shall be straight, even and perpendicular to the sidewalk.

# 1.03 Methods of Measurement:

This work shall be measured by the square yard of concrete sidewalk successfully and completely installed and approved by the Engineer.

### 1.04 Basis of Payment:

This work shall be paid for at the Contract Unit Price as listed in Item 608.24 & 608.26 in the Bid Specification. This price shall include all equipment, material and labor incidental hereto.

Pay Item	Payment will be made under:	Pay Unit
608.24	4" Fiber Reinforced Concrete Sidewalk	Square Yard
608.26	6" Reinforced Concrete Sidewalk	Square Yard

### SPECIAL PROVISION SECTION 608

### **Item 608.52 – ADA Compliant Handicap Ramp Panels**

This special provision provides for the installation of handicap accessible ramp surfaces (Detectable Warning Panels) to be in compliance with the Americans with Disabilities Act (ADA). This Special Provision provides for Item 608.52 and neither modifies nor amends any other provisions of this section unless specifically noted.

### **Description**

1.1 This work shall consist of furnishing and installing a detectable warning surface and accessories on sidewalk ramps at locations shown on the plans, as specified herein, or as ordered including any and all required surface preparation. Detectable warnings shall be installed at sidewalk ramps where a sidewalk crosses a vehicular way, excluding unsignalized driveway crossings. The edge nearest the curbline shall be located 150 to 200 mm (6 to 8 in) from the back of the curbline. The paver shall be centered on the ramp.

#### **Materials**

### 2.1 Detectable Warning Device:

- 2.1.1 Material. The detectable warning surface shall consist of Engineered Plastic units. The units will be pressed into Portland cement or other Owner approved material. The paver units shall be Armor Tile as manufactured and supplied by Engineered Plastic, Inc., 300 International Dr Suite 100, Williamsville, NY 14221, 1-800-769-4463, www.armor-tile.com
- **2.1.2** Color. The color of the tile used shall be **light gray**, and would be installed in a concrete ramp as described above (608.26).
- 2.1.3 Paver Dimensions. Nominal paver dimensions shall be 2' deep x 3' wide.
- **2.1.4** Detectable Warning Truncated Dome Geometry:
- **2.1.4.1** Detectable warnings shall be in full compliance with ADAAG guidelines (Title 49 DFR Transportation, Part 37.9 Standard for Accessible Transportation Facilities, Appendix A, Section 4.29.2- Detectable Warning on Walking Surfaces).
- **2.1.4.2** Size and spacing for truncated domes shall be as follows: base diameter of nominal 0.9 inch, top diameter of nominal 0.4 inch, height of nominal 0.2 inch, with a center to center spacing of nominal 2.35 inches.
- **2.1.4.3** The truncated dome pattern shall align properly from paver to paver if more than 1 paver is required.

#### 2.2 Setting Bed Material

2.2.1 <u>Material.</u> Pavers shall be set into fresh concrete before it sets. See ramp specification above (608.26). Also see manufacturer instructions.

### **Construction Requirements**

3.1 The Contractor shall submit manufacturer's installation instructions and descriptive literature for materials specified herein.

- **3.2** Transport, storage, and handling of products shall be in accordance with manufacturer's instructions.
- **3.2.1** All sealants/adhesives shall be protected from freezing conditions.
- **3.3** The air and surface temperatures during construction shall be in accordance with manufacturer's recommendations.
- **3.4** Concrete foundation shall be installed in accordance with the specifications included within Section 608 to depths indicated in the section shown on the plans.
- 3.5 Install detectable warning pavers in accordance with manufacturer's instructions directly in the setting bed and the allowing the top surface of the paver units to be at or just below the required finish grade.
- **3.6** Care shall be taken to ensure the safety of pedestrians when sidewalks must remain in service during construction.

### **Method of Measurement**

**4.1** These are measured by each panel installed successfully.

### **Basis of Payment**

### **Pay Item and Unit**

608.52 Detectable Warning Devices

Each

### **CURBING**

The provisions of Section 609 of the Standard Specifications shall apply with the following additions and modifications:

<u>609.01</u> <u>Description</u>. This work shall include all straight and circular vertical curb. Material shall be in accordance with Section 609.2 Table 1 except that drill holes through the curb will not be allowed. Curbing to be removed and reset shall be as shown on the plans or as ordered.

<u>609.03 Construction Requirements</u>. All joints of the curb shall have a 100 mm by 213 mm pad on the back side. The pad shall be filter fabric such as that used for underdrain or for roadway stabilization. The pad shall be placed in full contact with the curb from 13 mm below top of curb to 50 mm below gutter grade and backfilled to hold in place.

Concrete backfill meeting the requirements of Section 520, Class B shall be placed to binder elevation both in front of and behind the curb. The surface shall be broom finished to a uniform grade per the plan detail.

<u>609.4 Method of Measurement</u>. All proposed new straight and circular curb to be set and existing curb to be reset will be measured by the linear foot along the face of the curb, complete in place. Cutting of new or existing curbing shall be incidental. Removal and disposal of existing pavement required for the installation of new terminal ends shall be incidental.

<u>609.5 Basis of Payment</u>. The accepted quantity of new curb will be paid for at the contract unit price, complete in place. This price shall include the cost of excavation and all labor, materials, concrete (unless otherwise paid for), and equipment necessary to satisfactorily complete the work.

Tip-downs shall be measured as straight or circular curbing dependent upon their respective location. No additional payment shall be made. Removal and disposal of existing curbing shall be considered incidental to the items below. Saw cutting of pavement to necessary for curb installation shall be considered incidental to the following items.

Payment will	be	made	under:
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Pay Item		<u>Pay Unit</u>
609.01	Straight Granite Curb	Linear Foot
609.02	Curved Granite Curb	Linear Foot
609.5	Reset granite curb	Linear Foot

### SPECIAL PROVISION

# **SECTION 611.90001 – Adjusting Water Valve Boxes**

This item is intended for the purpose of bringing existing structures to proposed grade to facilitate access to underground valves. Work shall be in conformance with City of Portsmouth and ANSI/AWWA requirements.

# **Method of Payment**

The accepted quantity of valves adjusted to grade, and accepted by the City, will be paid at the contract unit price per each, completed and approved.

# **Pay Items**

611.90001 Adjusting Water Valve Boxes

Each

# **ELECTRICAL CONDUIT**

The provisions of Section 614 of the Standard Specifications shall apply with the following additions and modifications.

### 614.5 Basis of Payment.

The accepted quantities of conduit will be paid for at the Contract unit price per linear foot of the type, size and number of ducts specified, complete in place, including brackets/spacers, common structure excavation to the depth specified in 206.4.1, bedding if required, and backfill.

The accepted quantities of pull boxes will be paid for at the Contract unit price per each, complete in place, including common structure excavation and bedding as required by 614.3.6.3.

Any required rock excavation will be paid under Item 206.2.

	Payment will be made under:	
Pay Item		Pay Unit
614.522	Molded Pull Box 13"x24"	Each
614.72114	2" PVC Plastic Conduit, Schedule 40	Linear Foot
614.72118	2" PVC Plastic Conduit, Schedule 80	Linear Foot

### **TRAFFIC SIGNS**

The provisions of Section 615 of the Standard Specifications shall apply with the following additions and modifications.

## 615 Basis of Payment.

Payment shall be for sign, post and all hardware. Sign sizes shall be as shown on the plans and meet all other requirements of this section. New signs will be paid at the contract unit price per square foot of sign, complete in place. Relocated signs will be paid for as a complete unit (per each). Removal and disposal of existing signs and posts will be subsidiary.

The following describes the sign type:

- 615.03 Traffic Sign Type C –new sign with post.
- 615.034 Relocating Traffic Sign Type C removal and relocation of a sign and post
- 615.06 Traffic Sign Type CC –sign mounted to a post installed with a Type C sign

Pay Item		<u>Pay Unit</u>
615.03	Traffic Signs Type C - with breakaway mounts and posts	SF
615.034	Relocating Traffic Signs Type C with breakaway mounts and posts	Unit
615.06	Traffic Signs Type CC	SF

### **MAINTENANCE OF TRAFFIC**

The provisions of Section 619 of the Standard Specifications shall apply with the following additions and modifications.

# **Replace Description:**

This work shall consist of providing and maintaining safe and passable traffic accommodations for public travel for vehicles and pedestrians; preventing dust nuisance; and furnishing, erecting, and maintaining necessary traffic signs, barricades, and other traffic control warning devices. The Contractor shall be responsible for this work and shall perform it in accordance with the current MUTCD, Work Zone Traffic Control Standard Plans (NHDOT), the approved TCP and these specifications.

The construction work zone(s) designated for this contract shall extend approximately 100 feet, beyond the work limits as described below and/or shown on the project layout map.

The Contractor shall be responsible for preparing a Traffic Control Plan (TCP) indicating the type, size and location for all permanent and operational construction signs and warning devices. The plan shall also indicate construction staging. The TCP shall be approved by the Engineer prior to the beginning of the work.

# **Add to Construction Requirements**

All work shall be prosecuted so pedestrian and traffic flow can be maintained whenever possible. No travel lane or sidewalk closures will be allowed without prior approval from the Engineer.

Access shall be maintained to the abutting driveways and entrances at all times during construction.

Pedestrian ramps, walkways, railings etc. may be ordered by the Engineer if the need arises.

Sidewalk areas, unless directed otherwise by the Engineer, will be reconstructed within 3 weeks of disturbance. Sidewalk disruptions longer than 1 day may require wood ramps, gravel ramps, railings etc. as ordered by the Engineer.

### **Basis of Payment:**

Maintenance of traffic will be paid for at the Contract lump sum price. Payment will be made as a percentage complete based upon the anticipated construction period. All costs associated with the application of these measures or other measures directed by the Engineer shall be paid for

under this item and will not be further chargeable to the project, except as stipulated and specified under Contract Items.

# **Pay Items**

Maintenance of Traffic

Lump Sum

# **SAWED PAVEMENT**

The provisions of Section 628 of the Standard Specifications shall apply with the following additions and modifications.

# 628.50 Basis of Payment

The accepted quantity of sawed pavement will be paid for at the Contract unit pirce per linear foot. No separate payment for filler.

Payment will be made under:

Pay ItemPay Unit628.2Sawed Bituminous PavementLF

## **REFLECTIVE PAVEMENT MARKINGS**

The provisions of Section 632 of the Standard Specifications shall apply with the following additions and modifications.

# 632.5 Basis of Payment.

The accepted quantities of retroreflective pavement marking lines of the type and width specified will be paid for at the Contract unit price per linear foot, complete in place.

# Payment will be made under:

Retroreflective paint pavement markings will be used to designate parking spaces as shown on the plans. Thermoplastic pavement markings will be used for crosswalks and stop bars as shown on the plans.

Pay Item		Pay Unit
632.0104	Retroreflective Paint Pavement Marking - 4" Solid Line	LF
632.3112	Retroreflective Thermoplastic Pavement Marking – 12" Line	LF

### **SECTION 641 - LOAM**

#### **SECTION 644 – SEEDING**

### **SECTION 646 – TURF ESTABLISHMENT**

These sections shall be replaced with the following:

### PART 1 - GENERAL

#### 1.01 DESCRIPTION

- A. <u>Contract Documents</u>: All of the Contract Documents, including Standard Specifications, General Requirements, Technical Specifications and Special Provisions, are hereby made a part of the work of this Section. Where paragraphs of this section conflict with other portions of the Contract provisions, requirements of this Section will govern with regard to Landscaping items.
- B. Seeded Lawns: Provide seeded lawns as shown and specified.
  - 1. New Loam.
  - 2. Spreading new and existing on site loam.
  - 3. Soil preparation.
  - 4. Seeding lawns.
  - 5. Mulching.
  - 6. Maintenance.

### 1.02 QUALITY ASSURANCE

- A. <u>Materials Testing</u>: Provide and pay for materials testing. Testing agency shall be acceptable to the Landscape Architect. Provide the following data:
  - 1. Test representative material samples proposed for use.
  - 2. Loam:
    - a. pH factor.
    - b. Mechanical analysis.
    - c. Percentage of organic content.
    - d. Recommendations on type and quantity of additives required to establish satisfactory pH factor and supply of nutrients to bring nutrients to satisfactory level for planting.

- B. Work shall be performed by experienced personnel specialized in landscaping and by qualified, experienced horticultural technicians. Provide full time, qualified supervision.
- C. Contractor shall notify the City in writing of any material specified herein that, in the opinion of the Contractor is inappropriate for the proposed site conditions. No substitutions of materials may be made without the prior written approval of the City.

#### 1.03 SUBMITTALS

- A. Submit seed vendor's certification for required grass seed mixture, indicating botanical and common name, percentage by weight, and percentages of purity, germination, and weed seed for each grass species. Seed shall conform to seed laws of Department of Agriculture.
- B. Submit the following material samples:
  - Seed for Lawn
- C. Submit the following materials certification:
  - 1. Fertilizer analysis.
  - 2. Tackifier.
  - 3. Asphaltic emulsion.
- D. Submit materials test reports.
- E. Upon seeded lawn acceptance, submit written maintenance instructions recommending procedures for maintenance of seeded lawns.

#### 1.04 <u>DELIVERY, STORAGE, AND HANDLING</u>

A. Deliver seed and fertilizer materials in original unopened containers, showing weight, analysis, and name of manufacturer. Transport and store in a manner to prevent wetting and deterioration.

#### 1.05 PROJECT CONDITIONS

- A. Work notification: Notify Landscape Architect at least 7 working days prior to start of seeding operations.
- B. Protect existing utilities, paving, and other facilities from damage caused by seeding operations.
- C. Perform seeding work only after planting and other work affecting ground surface has been completed.
- D. Restrict traffic from lawn areas until grass is established. Erect signs and barriers as required.
- E. Provide hose and lawn watering equipment as required.

#### PART 2 - PRODUCTS

#### 2.01 MATERIALS

- A. Lawn seed: Fresh, clean, and new crop seed mixture as specified here and on drawings.
  - 1. Seed may be mixed by an approved method on the site or may be mixed by the dealer. If the seed is mixed on the site, each variety shall be delivered in the original containers bearing the dealer's guaranteed analysis. If the dealer mixes seed, the Seeding Contractor shall furnish to the City the dealer's guaranteed statement of the composition of the mixture and the percentage of purity and germination of each variety.
  - 2. Composed of the following varieties, mixed to the specified proportions by weight and tested to minimum percentages of purity and germination. Poa Annua, bent grass, and noxious weed seed free. All seed shall consist of Triplex Kentucky Bluegrass and Triplex Perennial Ryegrass mixed to a ratio of 1:1 by volume.
    - a. Triplex Kentucky Bluegrass
       40% Baron Kentucky Bluegrass
       50% Merit Kentucky Bluegrass
       10% Georgetown Kentucky Bluegrass
    - b. Triplex Ryegrass Mix 40% Palmer Perennial Ryegrass
      - 40% Prelude Perennial Ryegrass
      - 20% Yorktown Perennial Ryegrass
- B. <u>Topsoil</u>: Fertile, friable, natural loam, without admixture of subsoil material, obtained from a well-drained arable site, free from toxic substances, clay, lumps, coarse sands, stones, plants, roots, sticks, and other foreign materials. All topsoils used on site shall be tested at the UNH Analytical Services Lab at the contractors expense.
  - Loam that has been stripped and stockpiled on site shall be utilized on this project. Provide additional loam if necessary. On site loam shall be tested, screened, and amended as required in this section before use.
  - 2. Provide additional loam as needed to meet project requirements, all loam shall be free of substances harmful to the plants which will be grown in the soil, shall be tested and amended as required by these specifications prior to use.
- C. <u>Fertilizer</u>: Shall be a starter type fertilizer with a 1:2:1 nitrogen-phosphorus-potassium ratio to be applied at a rate of 3.5 lbs. per 1000 sq. ft.. Fertilizer should contain at least 3% water insoluble nitrogen.
- D. <u>Compost</u>: Shall be horticultural compost, free from toxins and sewage sludge and meets all state standards. Analysis and certification of compliance shall be submitted for approval before use.
- E. <u>Ground limestone</u>: Containing not less than 85% of total carbonates with a minimum of 30% magnesium carbonates and ground to such fineness that 50% will pass through a 100 mesh sieve and 90% will pass through a 20 mesh sieve.
- F. Mulch: No material shall be used which is so wet, decayed, or compacted as to inhibit even a

uniform spreading. No chopped hay, grass clippings or other short fiber material shall be used unless directed.

- 1. Clean oat or wheat straw well seasoned before bailing, free from mature seed-bearing stalks or roots of prohibited or noxious weeds.
- 2. Wood cellulose fiber mulch: Degradable green dyed wood cellulose fiber or 100% recycled long fiber pulp, free from weeds or other foreign matter toxic to seed germination and suitable for hydromulching.
- 3. Salt marsh hay or straw will consist of salt marsh hay or straw, reasonably free from noxious weeds or other undesirable materials.
- G. <u>Tackifier</u>: Liquid concentrate diluted with water forming a transparent 3-dimensional film like crust permeable to water and air and containing no agents toxic to seed germination.
- H. <u>Water</u>: Free of substance harmful to seed growth. Hoses or other methods of transportation shall be furnished by Contractor.

#### PART 3 - EXECUTION

#### 3.01 <u>INSPECTION</u>

- A. Examine finish surfaces, grades, topsoil quality, and depth. Do not start seeding work until unsatisfactory conditions are corrected in a manner acceptable to City.
- B. Cooperate with other contractors and trades working in and adjacent to landscape work areas. Examine drawings that show development of entire site and become familiar with scope of the other work required.

#### 3.02 PREPARATION

- A. Limit preparation to areas which will be immediately seeded.
- B. All slopes and other areas where topsoil is required shall be brought to the required subgrade.
- C. Loosen subsoil in areas to be seeded to a depth of 4", provided the area is not over tree roots, immediately prior to placement of topsoil. Remove stones, sticks, roots, rubbish, and extraneous matter over 1" in any dimension.
- Spread loam to a depth of 6" to provide consistent coverage. Work topsoil into loosened subsoil below.
- E. Grade lawn areas to a smooth, free draining even surface with a loose, moderately coarse texture. Roll and rake, remove ridges, and fill depressions as required to drain.
- F. Apply limestone, along with other soil amendments recommended by the soil test, at rate determined by the soil test, to adjust pH of topsoil to not less than 6.4 nor more than 6.8 within a three month period. Distribute evenly by machine and incorporate thoroughly into topsoil.
- G. Apply fertilizers to renovated lawn areas by mechanical rotary or drop type distributor, thoroughly and evenly incorporated with soil to a depth of 3" by discing or other approved method. Fertilize areas inaccessible to power equipment with hand tools and incorporate into

soil.

H. Restore prepared areas to specified condition if eroded, settled, or otherwise disturbed after fine grading and prior to seeding.

#### 3.03 INSTALLATION

#### A. Seeding:

- Seed lawn immediately after preparation of bed. Spring seeding between April 15 and June 15 and fall seeding between August 15 and October 10 or at such other times acceptable to the Landscape Architect.
- 2. Seed indicated areas within contract limits and areas adjoining contract limits disturbed as a result of construction operations.
- 3. Perform seeding operations when the soil is dry and when winds do not exceed 5 miles per hour velocity.
- 4. Apply seed to areas with a rotary or drop type distributor or by hydroseeding. Install seed evenly by sowing equal quantities in 2 directions, at right angle to each other.
- 5. Sow grass seed for lawn at a rate of 6.0 lbs per 1,000 sq. ft. (250 lbs/acre).
- 6. If using rotary or drop type distributor, after seeding, rake or drag surface of soil lightly to incorporate seed into top 1/8" of soil. Roll with light lawn roller.
- 7. Mulch seeding with straw blanket not less than ½" to 1" thick, keep seeded areas moist continuously until the seed has germinated. (Expect three weeks for Bluegrass germination).

#### B. Hydroseeding:

- 1. Use a hydromulcher (sprayer) and apply mixture(s) at the following rates. Mix in accordance with manufacturer's recommendations.
- 2. Apply 'Mixture A' hydroseed slurry to steep erosion prone areas.
  - a. Type A fertilizer: 220 lbs./acre.
  - b. Tackifier: 60 gals./acre.
  - c. Wood cellulose fiber mulch: 2,000 lbs./acre.
  - d. Limestone: Rate determined by soil test.
- 3. Apply 'Mixture B' hydroseed slurry to all other areas.
  - a. Type A fertilizer: 220 lbs./acre.
  - b. Wood cellulose fiber mulch: 1,500 lbs./acre.
  - c. Limestone: Rate determined by soil test.

- 4. Protect buildings, paving, plantings, and all nonseeded areas from liquid tackifier over-spray.
- C. Provide straw bale checking in ditches or problem swales at intervals required to adequately slow water velocity and impede soil loss.
- D. The Contractor shall erect barricades with warning signs to protect the seeded areas. The Contractor shall be responsible for all such areas during the period when the grass is becoming established, including watering. This period shall extend for a minimum of 60 days after the completion of the final seeding of the areas.

#### 3.04 MAINTENANCE

- A. <u>Lawn Maintenance</u>: Provide complete maintenance and service as required to promote and maintain healthy growth including, without limitation, watering, fertilizing, weeding, mowing, trimming, rolling, re-grading, fallen leaf removal, treating for insects and disease, and other operations for sixty days after substantial completion, two mowings and acceptance by City or the City's representative. The City shall be notified in writing as to the date that they are expected to begin maintenance of the completed project. If seeded in the fall, or sixty days of maintenance has not be completed before the onset of winter, or if turf is not considered acceptable at the end of the growing season, continue maintenance the following spring until an acceptable lawn is established. Any part of seeded areas which fails to show a uniform stand shall be reseeded every twenty one days until areas are covered with grass or intended plantings.
  - Water daily to maintain adequate surface soil moisture for proper seed germination.
     Thereafter apply 1/2" of water twice weekly until acceptance. Continue daily watering for not less than 30 days.
  - 2. Repair, rework, and re-seed all areas that have washed out, are eroded, or do not catch.
  - 3. <u>Mowing</u>: Mow lawn areas as soon as lawn top growth reaches a 3.5" height. Cut back to 3" in height and never lower than 2.5". Repeat mowing as required to maintain specified height.
  - 4. <u>Length of Maintenance Required</u>: Completely maintain lawns for 60 days or until date of acceptance of project, whichever is later in time.
  - 5. Acceptance Criteria: Create an acceptable lawn which is defined to mean a uniform, smooth lawn with well established, close stands of grass, with no bare or dead spots over 3" in maximum dimension, with not more than one bare spot for each square yard of lawn area, and with an average of at least 6 thriving grass plants per square inch. To be acceptable, the lawn will be free from weeds, disease, and detrimental insect infestation.

#### 3.05 ACCEPTANCE

- A. Inspection to determine acceptance of seeded lawns, field and meadow seedings will be made by City and the Landscape Architect, upon Contractor's request. Provide notification at least 10 working days before requested inspection date.
  - 1. Seeded areas will be acceptable provided all requirements, including maintenance, have been complied with, and a healthy, uniform, close stand of the specified grass is

established free of weeds, undesirable grass species, disease, and insects.

- 2. No individual lawn areas shall have bare spots or unacceptable cover totaling more than 2% of the individual areas, in areas requested to be inspected.
- B. Upon acceptance, the City or private property owner will assume lawn maintenance.

#### 3.06 WARRANTY

A. Provide a uniform stand of grass by watering, mowing, and maintaining seeded areas as specified for 1 year after date of substantial completion or until final acceptance. Reseed areas, with specified materials, which fail to provide a uniform stand of grass until all affected areas are accepted by the City.

#### 3.07 CLEANING

A. Perform cleaning during installation of the work and upon completion of the work. Remove from site all excess materials, debris, and equipment. Repair damage resulting from seeding operations.

### **Method of Measurement**

- 1. Loam shall be measured by the cubic yard.
- 2. Seeding shall be subsidiary.
- 3. Turf establishment shall be measured by the square yard.

#### **Basis of Payment**

The accepted quantities of loam will be paid for at the Contract unit price per cubic yard, complete in place.

The accepted quantities of Turf Establishment of the type specified will be paid for at the Contract unit price per square yard complete in place.

All work required to conform to the Technical Specifications as noted above shall be incidental to the contract item(s) noted below.

## Payment will be made under:

Pay Item		Pay Unit
641	Loam	Cubic Yard
646.31	Turf Establishment With Mulch And Tackifiers	Square Yard

#### **EROSION CONTROL**

The provisions of Section 645 of the Standard Specifications shall apply with the following additions and modifications.

All other items in this section are incidental to all construction.

#### 645.5 Basis of Payment.

The accepted Storm Water Pollution Prevention Plan (SWPPP) will be paid for at the Contract lump sum price. Initial payment will be up to 25 percent of the amount bid upon approval of the SWPPP For the entire project. Subsequent payments will be made periodically based upon the anticipated construction period and proposed construction sequence. Modifications and resubmittals of the plan will be subsidiary.

The accepted quantities of Monitoring SWPPP and Erosion and Sediment Control will be paid for at the Contract unit price per hour.

### Payment will be made under:

Pay Item		Pay Unit
645.7	Stormwater Pollution Prevention Plan	Lump Sum
645.71	Monitoring SWPPP and Erosion Control	Hour

#### **SECTION 652 & 653**

#### TREES, PLANTS, AND GROUND COVERS

These sections shall be replaced with the following:

#### PART 1 - GENERAL

#### 1.01 <u>DESCRIPTION</u>

- A. <u>Contract Documents</u>: All of the Contract Documents, including Standard Specifications, General Requirements, Technical Specifications and Special Provisions, are hereby made a part of the work of this Section. Where paragraphs of this section conflict with other portions of the Contract provisions, requirements of this Section will govern with regard to Landscaping items.
- B. Provide trees, plants, and ground covers as shown and specified. The work includes:
  - 1. Soil preparation.
  - 2. Trees, plants, and ground covers.
  - 3. Planting mixes.
  - 4. Mulch and planting accessories.
  - 5. Existing tree care.
  - 6. Shrub relocation.
  - 7. Maintenance.
  - 8. Warranty

#### 1.02 QUALITY ASSURANCE

- A. Plant names indicated shall comply with "Standardized Plant Names" as adopted by the latest edition of the American Joint Committee of Horticultural Nomenclature. Names of varieties not listed conform generally with names accepted by the nursery trade.
- B. Work shall be performed by firms specializing in landscaping and by qualified, experienced horticultural technicians. Provide full-time, qualified supervision.
- C. Provide stock true to botanical name and legibly tagged.
- D. Comply with sizing and grading standards of the latest edition of "American Standard for Nursery Stock". A plant shall be dimensioned as it stands in its natural position.
- E. All plants shall be nursery grown under climatic conditions similar to those in the locality of the project for a minimum of 2 years.

- F. Stock furnished shall be at least the minimum size indicated. Larger stock is acceptable, at no additional cost, and providing that the larger plants will not be cut back to size indicated. Provide plants indicated by two measurements so that only a maximum of 25% are of the minimum size indicated and 75% are of the maximum size indicated.
- G. Provide "specimen" plants with a special height, shape, or character of growth. Tag specimen trees or shrubs at the source of supply. The Landscape Architect will inspect specimen selections, at the source of supply, for suitability and adaptability to selected location. When specimen plants cannot be purchased locally, provide sufficient photographs of the proposed specimen plants for approval.
- H. Plants may be inspected and approved at the place of growth, for compliance with specification requirements for quality, size, and variety.
  - 1. <u>Source</u>: The Landscape Architect reserves the right to review and reject the source of plant material. The Contractor will submit for the Landscape Architect's review and approval a list indicating the plant name, size, quantity, and source prior to construction.
  - 2. The Landscape Architect has endeavored to locate sources for the plant material indicated to determine if materials are available. However, the Landscape Architect makes no claim that the materials will be available at the sources researched. The Contractor will submit to the Landscape Architect any questions regarding the source of any plant.
- I. <u>Materials Testing</u>: Provide and pay for material testing. Testing agency shall be acceptable to the Landscape Architect. Provide the following data:
  - 1. Test representative material samples proposed for use.
  - 2. Loam:
    - a. pH factor.
    - b. Mechanical analysis.
    - c. Percentage of organic content.
    - d. Recommendations on type and quantity of additives required to establish satisfactory pH factor and supply of nutrients to bring nutrients to satisfactory level for planting.
- J. Reference Standards:
  - 1. ANSI Z133.1 tree pruning, tree removal, and other tree care operations.
  - 2. ASTM: American Society for Testing Materials.
  - 3. AOAH: Association of Official Agricultural Chemists.
  - 4. AAN: American Association of Nurserymen.

#### 1.03 SUBMITTALS

A. Identification of Landscape Contractor:

- The General Contractor, as part of the bid documents, shall identify the Landscape subcontractor.
- B. Certification of Plant Material Availability:
  - 1. At the time of contract signing the General Contractor shall submit certification from the Landscape subcontractor that type, number and size of trees specified has been located, acquired and set aside so that they will be available for installation at the end of the construction phase.
- C. Submit the following material samples:
  - 1. Mulch.
- D. Submit the following materials certification:
  - 1. Topsoil source and pH value.
  - 2. Compost.
- E. Submit material test reports.
- F. Provide plant material record drawings:
  - 1. Legibly mark drawings to record actual construction.
- G. Upon acceptance of plant materials, submit written maintenance instructions recommending procedures for maintenance of Trees, shrubs and groundcovers.

#### 1.04 <u>DELIVERY, STORAGE, AND HANDLING</u>

- A. Deliver fertilizer materials in original, unopened, and undamaged containers showing weight, analysis, and name of manufacturer. Store in manner to prevent wetting and deterioration.
- B. Take all precautions customary in good trade practice in preparing plants for moving. Workmanship that fails to meet the highest standards will be rejected. Dig, pack, transport, and handle plants with care to ensure protection against injury. Inspection certificates required by law shall accompany each shipment invoice or order to stock and on arrival, the certificate shall be filed with the Landscape Architect. Protect all plants from drying out. Deliver trees and shrubs after preparations for planting have been completed and plant immediately. If plants cannot be planted immediately upon delivery, set plants in shade and properly protect them with soil, mulch, or in a manner acceptable to the Landscape Architect. Water heeled-in plantings daily at a minimum or more if weather conditions require.
- C. No plant shall be bound with rope or wire in a manner that could damage or break the branches.
- D. Cover plants transported on open vehicles with a protective covering to prevent wind burn.
- E. Provide dry, loose topsoil for planting bed mixes. Frozen or muddy topsoil is not acceptable.

#### 1.05 PROJECT CONDITIONS

- A. <u>Work notification</u>: Notify Landscape Architect at least 7 working days prior to installation of plant material.
- B. Protect existing utilities, paving, and other facilities from damage caused by landscaping operations.
- C. A complete list of plants, including a schedule of sizes, quantities, and other requirements is shown on the drawings. In the event that quantity discrepancies or material omissions occur in the plant materials list, the planting plans shall govern.
- D. <u>Concealed Conditions</u>: Notify Landscape Architect before planting when below grade conditions detrimental to proper plant growth are encountered. Do not proceed with planting without specific written instructions from the Landscape Architect.

#### 1.06 <u>WARRANTY</u>

- A. Warrant all plant material to remain alive and be in healthy, vigorous condition for a period of 1 year after completion and acceptance of entire project.
- B. Replace, in accordance with the drawings and specifications, all plants that are dead or, as determined by the Landscape Architect, are in an unhealthy or unsightly condition, and have lost their natural shape due to dead branches, or other causes due to the Contractor's negligence. The cost of such replacement(s) is at Contractor's expense. Warrant all replacement plants for 1 year after installation.
- C. Warranty shall not include damage or loss of trees, plants, or ground covers caused by fires, floods, freezing rains, lightning storms, or winds over 75 miles per hour, acts of vandalism or negligence on the part of the City.
- D. Remove and immediately replace all plants, as determined by the Landscape Architect, to be unsatisfactory during the initial planting installation.
- E. <u>City's Responsibilities and Warranty Exclusions</u>: After completion of the Contractor's maintenance responsibilities, the City is responsible for maintaining the work in reasonable compliance with the Contractor's maintenance instructions.
  - During the warranty period, the contractor will visit the site at one month intervals to review the conditions of the accepted work. The Contractor will submit in writing his/ her concerns regarding the City's maintenance practices and/ or any vandalism. The content of this notice will include a list of specific plants involved, the presumed problem, and a method of remedy for the problem(s) cited. The City will make reasonable efforts to correct the problems cited by the Contractor but the City will not be held responsible for the Contractor's defects in materials or workmanship that result in decline or death to plants and lawns.
  - Failure of the Contractor to make the required monthly review of the site during the
    warranty period and to submit written notice to the City of maintenance defects will
    negate the Contractor's ability to make a claim against the City for negligence of
    maintenance.

#### PART 2 - PRODUCTS

#### 2.01 MATERIALS

- A. <u>Plants</u>: Provide plants typical of their species or variety; with normal, densely-developed branches and vigorous, fibrous root systems. Provide only sound, healthy, vigorous plants free from defects, disfiguring knots, sunscald injuries, and frost cracks, abrasions of the bark, plant diseases, insect eggs, borers, and all forms of infestation. All plants shall have a fully developed form without voids and open spaces. Plants held in storage will be rejected if they show signs of growth during storage.
  - Dig balled and burlapped plants with firm, natural balls of earth of sufficient diameter and depth to encompass the fibrous and feeding root system necessary for full recovery of the plant.
    - a. Provide ball sizes complying with the latest edition of the "American Standard for Nursery Stock".
    - b. Cracked or mushroomed balls are not acceptable.
  - 2. <u>Container-grown stock</u>: Grown in a container for sufficient length of time for the root system to have developed to hold its soil together, firm and whole.
    - a. No plants shall be loose in the container.
    - b. Container stock shall not be pot bound.
  - 3. Provide tree species that mature at heights over 25 feet with a single main trunk. Trees that have the main trunk forming a "Y" shape are not acceptable.
  - 4. Plants planted in rows shall be matched in form.
  - 5. Plants larger than those specified in the plant list may be used when acceptable to the Landscape Architect.
    - a. If the use of larger plants is acceptable, increase the spread of roots or root ball in proportion to the size of the plant.
  - 6. The height of the trees, measured from the crown of the roots to the top of the top branch, shall not be less than the minimum size designated in the plant list.
  - 7. No pruning wounds shall be present with a diameter of more than 1" and such wounds must show vigorous bark on all edges.
  - 8. Evergreen trees shall be fully branched to the ground.
  - 9. Shrubs and small plants shall meet the requirements for spread and height indicated in the plant list.
    - a. The measurements for height shall be taken from the ground level to the height of the top of the plant and not the longest branch.
    - b. Single stemmed or thin plants will not be accepted.

- c. Side branches shall be generous, well-twigged, and the plant as a whole well-bushed to the ground.
- 10. Plants shall be in a moist, vigorous condition, free from dead wood, bruises, or other root or branch injuries.

#### 2.02 ACCESSORIES

- A. <u>Loam for Planting Beds</u>: Fertile, friable, natural loam, without admixture of subsoil material, obtained from a well-drained arable site, free from toxic substances, clay, lumps, coarse sands, stones, plants, roots, sticks, and other foreign materials. All topsoil used on site shall be tested at the UNH Analytical Services Lab at the contractor's expense.
  - Loam that has been stripped and stockpiled on site shall be utilized on this project.
     Provide additional loam if necessary. On site loam shall be tested, screened, and amended as required in this section before use.
  - 2. Provide additional loam as needed to meet project requirements, loam shall be free of substances harmful to the plants which will be grown in the soil, shall be tested and amended as required by these specifications prior to use.
- B. <u>Compost</u>: Horticultural compost free from toxins and sewage sludge, meeting all state standards. Analysis and certifications of compliance shall be submitted for approval before use.
- C. <u>Fertilizer</u>: Plant Fertilizer Type "A": Commercial type approved by the Landscape Architect, containing 5% nitrogen, 10% phosphoric acid, and 5% potash by weight. 1/4 of nitrogen in the form of nitrates. 1/4 in form of ammonia salt, and 1/2 in form of organic nitrogen.
- Anti-Desiccant: Protective film emulsion providing a protective film over plant surfaces; permeable to permit transpiration. Mixed and applied in accordance with manufacturer's instructions.
- E. <u>Mulch</u>: Premium grade aged shredded pine bark 3/4" to 1-1/2" diameter free from sawdust, woodchips or contaminants.
- F. <u>Water</u>: Free of substances harmful to plant growth. Hoses or other methods of transportation furnished by Contractor.
- G. Stakes for Staking: Hardwood, 3" x 3" x 5'-0" long.
- H. <u>Stakes for Guying</u>: Hardwood, 3" x 3" x 36" long.
- I. <u>Guying/Staking/Wire</u>: No. 10 or 12 gage galvanized wire.
- J. Staking and Guying Hose: Two-ply, reinforced garden hose not less than 1/2" inside diameter.
- K. Organic Bio-stimulant such as Roots®, a concentrated organic bio-stimulant that promotes root and shoot growth, increases stress resistance and reduces fertilizer requirements shall be used with all plant installations.
- L. Tree wrap of any kind shall not be used.

M. Landscape fabric shall not be used.

#### PART 3 - EXECUTION

#### 3.01 INSPECTION

A. <a href="Pre-Installation Examination Required">Pre-Installation Examination Required</a>: The Contractor shall examine previous work, related work, and conditions under which this work is to be performed and notify Landscape Architect in writing of all deficiencies and conditions detrimental to the proper completion of this work. Beginning work means Contractor accepts substrates, previous work, and conditions. The Contractor will not place any planting soil mixtures until all work in adjacent areas is complete and approved by the Landscape Architect.

#### 3.02 PREPARATION

- A. Planting shall be performed only by experienced workmen familiar with planting procedures under the supervision of a qualified supervisor.
- B. Locate plants as indicated or as approved in the field after staking by the Contractor. If obstructions are encountered that are not shown on the drawings, do not proceed with planting operations until alternate plant locations have been selected by Landscape Architect.
- C. <u>Planting Seasons</u>: Work only within seasonal limitations for proper planting as follows:

Plant Material	Spring Season	Fall Season
Deciduous		
[balled and burlapped]	April 15 to Jun 15	Sept 1 to Nov 15
Deciduous	-	_
[container grown]	April 15 to Jun 15	Sept 1 to Nov 15
Evergreens	Jun 15 to Oct 15	Sept 1 to Nov 15
Ground Covers	April 15 to Jun 15	Sept 1 to Oct 1
Bulbs	none	Sept 1 to Nov 15

- D. Contractor shall notify the Landscape Architect of commencement of planting operations a minimum of five days prior to the beginning of work. Contractor shall stake the location of proposed trees for approval by the landscape architect. After this approval contractor shall layout the proposed shrubs for approval by the landscape architect. Landscape architect may require all shrubs to be placed in their proposed locations prior to accepting the layout. Upon acceptance of the tree and shrub layouts and their installation, ground covers and bulbs may be installed.
- E. Excavate circular plant pits with sloping sides, as shown on planting details, except for plants specifically indicated to be planted in beds. Provide shrub pits at least 12" greater than the diameter of the root system and a minimum of 2x the width of the ball for trees for trees. Depth of pit shall accommodate the root system. Provide undisturbed subgrade to hold root ball at nursery grade as shown on the drawings. Remove excavated materials from the site.
- F. Plant shall be backfilled with existing soil from the excavation of the pit and no amendments shall be used unless the entire area the roots will grow into is amended likewise (such as large

plant beds)

G. Provide pre-mixed planting soils for ground cover and plant beds with a planting mixture consisting of 3 parts loam to 1 part compost and provide beds a minimum of 12" deep.

#### 3.03 INSTALLATION

- A. Examine tree and large shrubs for plant flare. If trunk flare is not visible, gently remove soil from the top of the ball until the flare and the beginning of the horizontal lateral roots can be seen. Give care to avoid damaging the roots. Depth of the plant pit shall be the same as the distance from the bottom of the root ball to the trunk flare.
- B. Set plant material in the planting pit to proper grade and alignment. Set plants upright, plumb, and faced to give the best appearance or relationship to each other or adjacent structure. Set plant material 2"-3" above the finish grade. No filling will be permitted around trunks or stems. Backfill the pit with planting mixture. Do not use frozen or muddy mixtures for backfilling. Form a ring of soil around the edge of each planting pit to retain water.
- C. After balled and burlapped plants are set, muddle planting soil mixture around bases of balls and fill all voids.
  - 1. Remove all burlap, ropes, and wire cages from root balls.
- D. Space ground cover plants in accordance with indicated dimensions. Adjust spacing as necessary to evenly fill planting bed with indicated quantity of plants. Plant to within 12" of the trunks of trees and shrubs within planting bed and to within 6" of edge of bed.
- E. <u>Mulching</u>: Mulch tree and shrub planting pits and shrub beds with required mulching material 2" deep immediately after planting. Thoroughly water mulched areas. After watering, rake mulch to provide a uniform finished surface.

#### F. Guying, staking:

- 1. Stake/guy all trees immediately planting operations and prior to acceptance. When high winds or other conditions which may effect tree survival or appearance occur, the Landscape Architect may require immediate staking/guying.
  - a. Stake deciduous trees under 3" caliper. Stake evergreen trees under 8'-0" tall.
  - b. Guy deciduous trees over 3" caliper. Guy evergreen trees over 8'-0" tall.
- 2. All work shall be acceptable to the Landscape Architect.
- G. <u>Pruning</u>: Prune only as indicated on the drawings. Prune evergreens only to remove broken or damaged branches.

#### 3.04 MAINTENANCE

A. <u>Plant and Tree Maintenance</u>: Begin maintenance immediately after planting. Provide complete maintenance and service as required to promote and maintain healthy growth including, without limitation, watering, fertilizing, pruning, trimming, cultivating, weeding, fallen leaf removal, treating for insects and disease, resetting plants to proper grade and upright position, and other operations and maintenance work. Throughout the maintenance period, restore planting

saucers and mulch, and keep mulch beds weed free. Tighten and adjust guy wires, stakes, and deadmen to keep trees in vertical position. Restore and replace damaged trunk wrappings.

- 1. <u>Length of Maintenance Required</u>: Completely maintain plants and trees for 60 days from date of final acceptance.
- B. <u>Watering</u>: Flood all plants during the maintenance period at least twice each week. At each watering, thoroughly saturate the soil around each tree and shrub. If sufficient moisture is retained in the soil as determined by the Landscape Architect, the required watering may be reduced. Quantity of water required per watering: Trees will require a minimum of ten gallons (ea.), shrubs require a minimum of 5 gallons (ea.), lawns require a minimum of 1" of water per week. Water trees, plants, and ground cover beds within the first 24 hours of initial planting, and not less than twice per week until final acceptance.
- C. Re-set settled plants to proper grade and position. Restore planting saucer and adjacent material and remove dead material.
- D. Tighten and repair guy wires and stakes as required.
- E. Correct defective work as soon as possible after deficiencies become apparent and weather and season permit.

#### 3.05 ACCEPTANCE

- A. Inspection to determine acceptance of planted areas will be made by the Landscape Architect, upon Contractor's request. Provide notification at least 10 working days before requested inspection date.
  - 1. Planted areas will be accepted provided all requirements, including maintenance, have been complied with and plant materials are alive and in a healthy, vigorous condition.

#### 3.06 CLEANING

A. Perform cleaning during installation of the work and upon completion of the work. Remove from site all excess materials, soils, debris, and equipment. Repair damage resulting from planting operations.

#### **Method of Measurement**

- 1. Mulch, guying, staking, pruning, and maintenance is subsidiary
- 2. Tree socks, stakes, guys and any other materials required for suitable placement of trees ball will be incidental.
- 3. Trees shall be measured each complete in place.

#### **Basis of Payment**

The accepted quantities of trees will be paid for at the Contract unit price per each for trees of the specified sizes and species complete in place.

All work required to conform to the Technical Specifications of this Section as noted above shall be incidental to the contract item(s) noted below.

## Payment will be made under:

Pay Item		Pay Unit
652.39	Ginko Biloba 'Autumn Gold' 3-3.5" Cal.	Each
652.66	Quercus Robur X Quercus Alba 'Crismschmidt' 3-3.5" Cal.	Each
652.96	Ulmus Americana 'Princeton' Elm 3-3.5" Cal.	Each

#### TRANSPLANTING PLANT MATERIAL

The following Changes have been made to this section:

**201.5 Basis of Payment.** Compensation under this item shall include the careful removal, temporary storage and care if necessary, and transplanting existing plant material at the locations shown or ordered; and all tools, equipment, labor and other materials necessary to satisfactorily complete the work. The accepted quantities of plant material transplanted will be paid for at the Contract unit price per each complete in place.

If the plant material does not survive transplantation due to insufficient care by the Contractor it shall be replaced with equivalent vegetation at the Contractor's expense.

Pay Item	Payment will be made under:	Pay Unit
658.1	Transplant Tree	Each

#### **MOBILIZATION**

The provisions of Section 658 of the Standard Specifications shall apply with the following additions and modifications.

#### 692.5 Basis of Payment

Partial payment for this item will be made approximately as follows:

- At 5% of the original Contract amount earned, the accumulated total to be paid will be 25% of the amount bid, or 2.5% of the original Contract amount, whichever is the lesser.
- At 10% of the original Contract amount earned, the accumulated total to be paid will be 50% of the amount bid, or 5% of the original Contract amount, whichever is the lesser.
- At 25% of the original Contract amount earned, the accumulated total to be paid will be 60% of the amount bid, or 6% of the original Contract amount, whichever is the lesser.
- At 50% of the original Contract amount earned, the accumulated total to be paid will be 100% of the amount bid, or 10% of the original Contract amount, whichever is the lesser.

The remaining amount (if any) will be paid upon completion of work.

No additional compensation will be made regardless of the fact the Contractor may have, for any reason, shut down work on the project, or moved equipment away from the project and then back again.

Payment will be made under:

Pay ItemPay Unit692MobilizationLump Sum

#### MISCELLANEOUS TEMPORARY EROSION & SEDIMENT CONTROL

## **Basis of Payment**

Payment for work authorized under this item will be made at a dollar basis. Contractor shall submit invoices showing labor, equipment and material costs for constructing and maintaining temporary erosion and sediment control devices in conformance with the approved SWPPP. The total cost shall not exceed the allowance specified and the Contractor shall plan the work accordingly.

Payment will be made under:

Pay Item

699 Misc. Temporary Erosion & Sediment Control

Allowance (\$)

## **ATTACHMENTS**

Attachment A – Compliance with Laws and Regulations

Attachment B – Davis Bacon Wage Decision

## Attachment A, Compliance with Laws and Regulations

In connection with the performance of this Contract, contractor and its subcontractors shall comply with all applicable statutes, laws, regulations, and orders of federal, state, county or municipal authorities which shall impose any obligation or duty upon the Owner.

During the performance of this Contract and for a period of three (3) years after its completion the Contractor, and its subcontractors, shall establish, maintain and preserve property management, project performance, financial management and reporting documents and systems, and such other books, records, and other data pertinent to the project. Such records shall be retained for a period of three (3) years following completion of the project and receipt of final payment, or until an audit is completed and all questions arising therefrom are resolved, whichever is later.

The provisions contained in this Attachment, "Compliance by Contractor with Laws and Regulations" shall be binding on each subcontractor covered by this contract; provided, however, that the foregoing provisions shall not apply to contracts for standard commercial supplies or raw materials. The contractor shall cause the applicable foregoing provisions to be inserted in all subcontracts for any work covered by this Contract.

During the term of this Contract, contractor shall not discriminate against employees or applicants for employment because of race, color, religion, creed, age, sex, handicap or national origin and will take affirmative action to prevent such discrimination.

As this Contract is funded by monies of the United States, Contractor shall comply with all of the provisions of Executive Order No. 11246 ("Equal Employment Opportunity") (attached) as supplemented by the regulations of the United State Department of Labor (41 C.F.R. Part 60), and with any rules, regulations and guidelines as the State of New Hampshire or the United States issue to implement these regulations. Contractor further agrees to permit the State, the United States, or any designated representative of either, to have access to any of the Contractor's books, records, and accounts for the purpose of ascertaining compliance with the aforesaid rules, regulations and orders, and the covenants and conditions of this Contract.

Contractor, and all subcontractors, shall also comply with the following federal and state laws and all applicable standards, rules, orders, or regulations issued pursuant thereto:

The Copeland "Anti-Kickback" Act, as amended (118 USC 874) as supplemented in Department of Labor regulations (41 CFR Chapter 60).

Nondiscrimination, Title VI of the Civil Rights Act of 1974 (PL 88-352), as amended, (42 USC 2000d) the Fair Housing Act of 1968 (PL 90-284), Executive Orders 11063 and 12259, and the requirements imposed by the Regulations of the Department of Housing and Urban Development (24 CFR 107 and 24 CFR 570.496) issued pursuant to that Title.

<u>Labor Standards</u>, Davis Bacon Act, as amended (40 USC 276a-276a-7), the Contract Work Hours and Safety Standards Act (40 USC 327-333). (See attached)

<u>The Flood Disaster Protection Act of 1973</u> (PL 93-234), as amended, regulations issued pursuant to that act, and Executive Order 11985.

<u>Architectural Barriers Act</u> (PL 90-480), 42 USC 4151, as amended, and the regulations issued or to be issued thereunder, including uniform accessibility standards (24 CFR 40) for public buildings with 15 or more residential units. RSA 275-C:10 and the New Hampshire Architectural Barrier Free Design Code (Han 100, et. seq.) also applies.

Rehabilitation Act of 1973, 29 USC 794, Sections 503 and 504, Executive Order 11914 and U.S. Department of Labor regulations issued pursuant thereto. (Attached)

The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (PL 91-646), as amended, 15 CFR Part 916 including amendments thereto and regulations thereunder.

The National Environmental Policy Act of 1969 (PL 90-190): the National Historic Preservation Act of 1966 (80 Stat 915, 116 USC 470); and Executive Order No. 11593 of May 31, 1971, as specified in 24 CFR 58.

The Clean Air Act, as Amended, 42 USC 1857 et seq., the Federal Water Pollution Control Act, as amended, 33 USC 1251 et seq. and the regulations of the Environmental Protection Agency with respect thereto, at 40 CFR part 15, as amended from time to time.

RSA 354 and rules of the New Hampshire Human Rights Commission (HUM 100, et. seq.) on discrimination in employment, membership, accommodations, and housing.

The Age Discrimination Act of 1975 as amended (42 USC 6101, et. seq.) and implementing regulations.

The lead paint requirements (24 CFR 35) of <u>The Lead-Based Paint Poisoning Prevention Act</u> (42 USC 4821, et. seq.).

The NH State Energy Code (RSA 155-D).

The NH State Life Safety Code (RSA 155:1) and rules of the NH State Fire Marshall.

<u>Citizen Participation Requirements</u>. The 1987 amendments to the Housing and Community Development Act of 1974, stated in Section 508.

### Affirmative Action Requirements. Contractor shall:

take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, creed, age, sex, or national origin; such action shall be taken in conjunction with any of the Contractor's acts in the capacity of an employer including, but not limited to: employment of individuals, upgrading, demotions or transfers, recruitment or recruitment advertising; layoffs or terminations; changes in rates of pay or other forms of compensation; selection for training, including apprenticeship, and participation in recreational and educational activities;

post in conspicuous places available to employees and applicants, employment notices, to be provided by the Owner, setting forth the provisions of this non-discrimination clause; the Contractor will, in all solicitations or advertisements for employees, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, creed, age, sex or national origin;

keep all such information, records and reports as may be required by the rules, regulations or orders of the Secretary of Labor and furnish or submit same at such times as may be required; the Contractor shall also permit the Owner or any of their designated representatives to have access to any of the Contractor's books, records and accounts for the purpose of investigation to ascertain compliance with the aforesaid rules, regulations and orders and covenants and conditions herein contained;

during the term of this Contract, shall not discriminate among participants under this Contract on the basis of race, color, religion, sex, handicap or national origin. For the purpose of this Contract, distinctions on the grounds of the following: denying a participant any service or benefit or availability of a facility; providing any service or benefit to a participant which is different, or is provided in a different manner or at a different time from that provided to other participants under this Contract; subjecting a participant to segregation or separate treatment in any matter related to his receipt of any service; restricting a participant in any way in the enjoyment of any advantage or privilege enjoyed by others receiving any service or benefit; treating a participant differently from others in determining whether he satisfies any admission, enrollment quota, eligibility, membership, or other requirement or condition which individuals must meet in order to be provided any service or benefit; the assignment of times or places for the provision of services on the basis of race, color, religion, sex, or national origin of the participants to be served.

<u>Section 3 of the Housing and Urban Development Act of 1968</u> (attached) (12 USC 1701u) as amended by the Housing and Community Development Act of 1992 (42 USC 5301).

Certification of Nonsegregated Facilities as required by the May 9, 1967, Order (32 FR 7439, May 19, 1967) on Elimination of Segregated Facilities, by the Secretary of Labor (applicable to contracts exceeding \$10,000)

By the submission of this bid, the bidder, offeror, applicant or subcontractor certifies that he/she does not maintain or provide for his/her employees any segregated facilities at any of his/her establishments, and that he/she does not permit his/her employees to perform their services at any location, under his/her control where segregated facilities are maintained.

He she certifies further that he/she will not maintain or provide for his/her employees any segregated facilities at any of his/her establishments, and that he/she will not permit his/her employees to perform their services at any location, under his/her control, where segregated facilities are maintained. The bidder, offeror, applicant, or subcontractor agrees that a breach of this certification is a violation of the Equal Opportunity clause in this contract. As used in this certification, the term "segregated facilities" means any waiting rooms, work areas, rest rooms and wash rooms, restaurants and eating areas, time clocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directive or are in

fact segregated on the basis of race, creed, color or national origin, because of habit, local custom, or otherwise. He/she further agrees that (except where he/she has obtained identical certifications from proposed subcontractors for specific time periods) he/she will obtain identical certifications from proposed subcontractors prior to the award of subcontracts exceeding \$10,000 which are not exempt from the provisions of the Equal Opportunity clause; that he/she will retain such certifications in his/her files; and that he/she will forward the following notice to such proposed subcontractors (except where the proposed subcontractors have submitted identical certifications for specific time periods):

## NOTICE TO PROSPECTIVE SUBCONTRACTORS OF REQUIREMENT FOR CERTIFICATIONS OF NONSEGREGATED FACILITIES

A certification of Nonsegregated Facilities, as required by the May 9, 1967, Order (32 F.R. 7439, May 19, 1967) on Elimination of Segregated Facilities, by the Secretary of Labor, shall be submitted prior to the award of a subcontract exceeding \$10,000 which is not exempt from the provisions of the Equal Opportunity clause. The Certification may be submitted either for each subcontract or for all subcontracts during a period (i.e., quarterly, semiannually, or annually).

NOTE: The penalty for making false statements in offers is prescribed in 18 USC 1001.

## CERTIFICATION OF BIDDER REGARDING EQUAL EMPLOYMENT OPPORTUNITY

#### Instructions

This certification is required pursuant to Executive Order 11246 (30 F.R. 12319-25). The implementing rules and regulations provide that any bidder or prospective contractor or any of their proposed subcontractors, shall state as an initial part of the bid or negotiations of the contract whether it has participated in any previous contract or subcontract subject to the equal opportunity clause; and if so, whether it has filed all compliance reports due under applicable instructions.

Where the certification indicates that the bidder has not filed a compliance report due under applicable instructions, such bidder shall be required to submit a compliance report within seven calendar days after bid opening. No contract shall be awarded unless such report is submitted.

Certification By Bidder
Name and Address of Bidder (including Zip Code)
1. Bidder has participated in a previous contract or subcontract subject to the Equal Opportunity Clause. $\ominus$ Yes $\ominus$ No
2. Compliance reports were required to be filed in connection with such contract or subcontract. $\ominus$ Yes $\ominus$ No
3. Bidder has filed all compliance reports due under applicable instructions. $\ominus  Yes  \ominus  No  \ominus  None \ required$
4. Have you ever been or are you being considered for sanction due to violation of Executive Order 11246, as amended? ⊖ Yes ⊖ No
Name and Title of Signer (Please type or print)
Signature

#### NOTICE OF REQUIREMENT OF AFFIRMATIVE ACTION TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY (EXECUTIVE ORDER 11246)

- 1. The Offeror's or Bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Opportunity Specifications" set forth herein.
- 2. The goals and timetables for minority and female participation, expressed in percentage terms for the Contractor's aggregate workforce in each trade on all construction work in the covered area, are as follows:

Timetables	Goals for minority participation for each trade	Goals for female participation for each trade
4 27	6.9	6.9

These goals are applicable to all the Contractor's construction work (whether or not it is federally assisted) performed in the covered area. If the contractor performs construction work in a geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the contractor also is subject to the goals for both its federally involved and nonfederally involved construction.

The Contractor's compliance with the Executive Order and the regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60.4.3(a), and its efforts to meet the goals established for the geographical area where the contract resulting from this solicitation is to be performed. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor or from project to project for the sole purpose of meeting the Contractor's goals shall be a violation of the contract, the Executive Order and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

- 3. The Contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs within 10 working days of award of any construction subcontract in excess of \$10,000 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address and telephone number of the subcontractor; employer identification number of the subcontractor; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the contract is to be performed.
- 4. As used in this Notice, and in the contract resulting from this solicitation, the "covered area" is (insert description of the geographical areas where the contract is to be performed giving the state, county and city, if any).

## CERTIFICATION OF BIDDER REGARDING SECTION 3 AND SEGREGATED FACILITIES

	Name of Prime Contractor	Project Name and Number
The undersig	ned hereby certifies that:	
(a)	Section 3 provisions are included in the	Contract.
(b)	A written Section 3 plan was prepared a (if bid equals or exceeds \$10,000).	nd submitted as part of the bidding proceedings
(c)	No segregated facilities will be maintain	ned.
Name and Title of	Signer (Print or Type)	
-		
	Signature	Date

## **SECTION 3 PLAN CERTIFICATION**

0220	agrees to implement the following specific affirmative action
dire	Name of Contractor cted at increasing the utilization of lowest income residents and businesses with in the City/Town of
A.	To ascertain from the locality's CDBG program official the exact boundaries of the Section 3 covered project area and were advantageous, seek the assistance of local officials in preparing and implementing the affirmative action plan.
B.	To attempt to recruit from within the city /town the necessary number of lower income residents through: Local advertising media, sign placed at the proposed site for the project, and community organizations and public or private institutions operating within or serving the project area such as Service Employment and Redevelopment (SER), Opportunities Industrialization Center (OIC), Urban League, Concentrated Employment Program, Hometown Plan, or the U.S. Employment Service.
C.	To maintain a list of all lower income residents who have applied either on their own or on referral from any source, and to employ such persons, if otherwise eligible and if a vacancy exists.
D.*	To insert this Section 3 plan in all bid documents, and to require all bidders and subcontractors to submit a Section 3 affirmative action plan including utilization goals and the specific steps planned to accomplish these goals.
E.*	To insure that subcontracts which are typically let on a negotiated rather than bid basis in areas other than Section 3 covered project areas, are also let on a negotiated basis, whenever feasible, when let in a Section 3 covered project area.
F.	To formally contact unions, subcontractors and trade associations to secure their cooperation for this program.
G.	To insure that all appropriated project area business concerns are notified of pending subcontractual ortunities.
H.	To maintain records, including copies of correspondence, memoranda, etc., which document that all the above affirmative action steps have been taken.
I.	To appoint or recruit an executive official of the company or agency as Equal Opportunity Officer to coordinate the implementation of the Section 3 Plan.
As o	officers and representatives of we, the undersigned, have read
fully	(Name of Contractor) y agree to this Affirmative Action Plan, and become a party to the full implementation of this program.
Sign	ature Title Date
Sign	ature Title Date

(sec3plnb frm)

#### Applicability

The Project or Program to which the construction work covered by this contract pertains is being assisted by the United States of America and the following Federal Labor Standards Provisions are included in this Contract pursuant to the provisions applicable to such Federal assistance.

- A. 1. (i) Minimum Wages. All laborers and mechanics employed or working upon the site of the work, will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR Part 3), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics. Contributions made or costs reasonably anticipated for bona fide fringe benefits under Section I(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of 29 CFR 5.5(a)(1)(iv); also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs, which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under 29 CFR 5.5(a)(1)(ii) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible, place where it can be easily seen by the workers.
- (ii) (a) Any class of laborers or mechanics which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. HUD shall approve an additional classification and wage rate and fringe benefits therefor only when the following criteria have been met:

- (1) The work to be performed by the classification requested is not performed by a classification in the wage determination; and
- (2) The classification is utilized in the area by the construction industry; and
- (3) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.
- (b) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and HUD or its designee agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by HUD or its designee to the Administrator of the Wage and Hour Division. Employment Standards Administration, U.S. Department of Labor, Washington, D.C. 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise HUD or its designee or will notify HUD or its designee within the 30-day period that additional time is necessary. (Approved by the Office of Management and Budget under OMB control number 1215-0140.)
- (c) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and HUD or its designee do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), HUD or its designee shall refer the questions, including the views of all interested parties and the recommendation of HUD or its designee, to the Administrator for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise HUD or its designee or will notify HUD or its designee within the 30-day period that additional time is necessary. (Approved by the Office of Management and Budget under OMB Control Number 1215-0140.)
- (d) The wage rate (including fringe benefits where appropriate) determined pursuant to subparagraphs (1)(ii)(b) or (c) of this paragraph, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.
- (iii) Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.
- (iv) If the contractor does not make payments to a trustee or other third person, the contractor may consider as part

of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program. (Approved by the Office of Management and Budget under OMB Control Number 1215-0140.)

- 2. Withholding. HUD or its designee shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld from the contractor under this contract or any other Federal contract with the same prime contractor, or any other Federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract In the event of failure to pay any laborer or mechanic, including any apprentice, trainee or helper, employed or working on the site of the work, all or part of the wages required by the contract, HUD or its designee may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased. HUD or its designee may, after written notice to the contractor, disburse such amounts withheld for and on account of the contractor or subcontractor to the respective employees to whom they The Comptroller General shall make such disbursements in the case of direct Davis-Bacon Act contracts.
- 3. (i) Payrolls and basic records. Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in Section I(b)(2)(B) of the Davis-bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5 (a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in Section I(b)(2)(B) of the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been

communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs. (Approved by the Office of Management and Budget under OMB Control Numbers 1215-0140 and 1215-0017.)

- (ii) (a) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to HUD or its designee if the agency is a party to the contract, but if the agency is not such a party, the contractor will submit the payrolls to the applicant sponsor, or owner, as the case may be, for transmission to HUD or its designee. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i) except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g., the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from Hour Division Web site Wage and http://www.dol.gov/esa/whd/forms/wh347instr.htm or successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to HUD or its designee if the agency is a party to the contract, but if the agency is not such a party, the contractor will submit the payrolls to the applicant sponsor, or owner, as the case may be, for transmission to HUD or its designee, the contractor, or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this subparagraph for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to HUD or its designee. (Approved by the Office of Management and Budget under OMB Control Number 1215-0149.)
- (b) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:
- (1) That the payroll for the payroll period contains the information required to be provided under 29 CFR 5.5 (a)(3)(ii), the appropriate information is being maintained under 29 CFR 5.5(a)(3)(i), and that such information is correct and complete;

- (2) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in 29 CFR Part 3;
- (3) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.
- (c) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by subparagraph A.3.(ii)(b).
- (d) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under Section 1001 of Title 18 and Section 231 of Title 31 of the United States Code.
- (iii) The contractor or subcontractor shall make the records required under subparagraph A.3.(i) available for inspection, copying, or transcription by authorized representatives of HUD or its designee or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, HUD or its designee may, after written notice to the contractor, sponsor, applicant or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

#### 4. Apprentices and Trainees.

(i) Apprentices. Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice. The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who

is not registered or otherwise employed as stated above. shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed. Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits. apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination. In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(ii) Trainees. Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant ',to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration. The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

- (iii) Equal employment opportunity. The utilization of apprentices, trainees and journeymen under 29 CFR Part 5 shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR Part 30.
- 5. Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR Part 3 which are incorporated by reference in this contract
- 6. Subcontracts. The contractor or subcontractor will insert in any subcontracts the clauses contained in subparagraphs 1 through 11 in this paragraph A and such other clauses as HUD or its designee may by appropriate instructions require, and a copy of the applicable prevailing wage decision, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in this paragraph.
- 7. Contract termination; debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.
- 8. Compliance with Davis-Bacon and Related Act Requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR Parts 1, 3, and 5 are herein incorporated by reference in this contract
- 9. Disputes concerning labor standards. Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR Parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and HUD or its designee, the U.S. Department of Labor, or the employees or their representatives.
- 10. (i) Certification of Eligibility. By entering into this contract the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of Section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1) or to be

- awarded HUD contracts or participate in HUD programs pursuant to 24 CFR Part 24.
- (ii) No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of Section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1) or to be awarded HUD contracts or participate in HUD programs pursuant to 24 CFR Part 24.
- (iii) The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001. Additionally, U.S. Criminal Code, Section 1 01 0, Title 18, U.S.C., "Federal Housing Administration transactions", provides in part: "Whoever, for the purpose of . . . influencing in any way the action of such Administration.... makes, utters or publishes any statement knowing the same to be false..... shall be fined not more than \$5,000 or imprisoned not more than two years, or both."
- 11. Complaints, Proceedings, or Testimony by Employees. No laborer or mechanic to whom the wage, salary, or other labor standards provisions of this Contract are applicable shall be discharged or in any other manner discriminated against by the Contractor or any subcontractor because such employee has filed any complaint or instituted or caused to be instituted any proceeding or has testified or is about to testify in any proceeding under or relating to the labor standards applicable under this Contract to his employer.
- B. Contract Work Hours and Safety Standards Act. The provisions of this paragraph B are applicable where the amount of the prime contract exceeds \$100,000. As used in this paragraph, the terms "laborers" and "mechanics" include watchmen and guards.
- (1) Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which the individual is employed on such work to work in excess of 40 hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of 40 hours in such workweek.
- Violation; liability for unpaid wages; liquidated (2) damages. In the event of any violation of the clause set forth in subparagraph (1) of this paragraph, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such Such liquidated territory), for liquidated damages. damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in subparagraph (1) of this paragraph, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of 40 hours without payment of the overtime wages required by the clause set forth in sub paragraph (1) of this paragraph.

- (3) Withholding for unpaid wages and liquidated damages. HUD or its designee shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contract, or any other Federally-assisted contract subject to the Contract Work Hours and Safety Standards Act which is held by the same prime contractor such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in subparagraph (2) of this paragraph.
- (4) Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in subparagraph (1) through (4) of this paragraph and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in subparagraphs (1) through (4) of this paragraph.
- C. Health and Safety. The provisions of this paragraph C are applicable where the amount of the prime contract exceeds \$100,000.
- (1) No laborer or mechanic shall be required to work in surroundings or under working conditions which are unsanitary, hazardous, or dangerous to his health and safety as determined under construction safety and health standards promulgated by the Secretary of Labor by regulation.
- (2) The Contractor shall comply with all regulations issued by the Secretary of Labor pursuant to Title 29 Part 1926 and failure to comply may result in imposition of sanctions pursuant to the Contract Work Hours and Safety Standards Act, (Public Law 91-54, 83 Stat 96). 40 USC 3701 et seq.
- (3) The contractor shall include the provisions of this paragraph in every subcontract so that such provisions will be binding on each subcontractor. The contractor shall take such action with respect to any subcontractor as the Secretary of Housing and Urban Development or the Secretary of Labor shall direct as a means of enforcing such provisions.

## Federal Equal Opportunity and Non-Discrimination Provisions

During the performance of this contract, the contractor agrees as follows:

- (1) The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, or natural origin. Such action shall include, but not be limited to the following: Employment, upgrading, demotion, or transfer, recruitment or recruitment advertising, layoff or termination; rates of pay, or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the contracting officer setting forth the provisions of this nondiscrimination clause.
- (2) The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, or national origin.
- (3) The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided by the agency contracting officer, advising the labor union or workers's representatives of the contractors' commitments under section 202 of Executive Order 11246 of September 24, 1965 and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
- (4) The contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.
- (5) The contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by the rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the contracting agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.
- (6) In the event of the contractor's noncompliance with the non-discrimination clauses of this contract or with any of such rules, regulations, or orders, this contract may be canceled, terminated, or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.
- (7) The contractor will include the provisions of paragraphs (1) through (7) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as may be directed by the Secretary of Labor as a means of enforcing such provisions, including sanctions for non-compliance: *Provided however*, that in the event a contractor becomes involved in, or is threatened with litigation with a subcontractor or vendor

as a result of such direction, the contractor may request the United States to enter into such litigation to protect the interests of the United States.

# STANDARD FEDERAL EQUAL EMPLOYMENT OPPORTUNITY CONSTRUCTION CONTRACT SPECIFICATIONS (EXECUTIVE ORDER 11246)

- 1. As used in these specifications:
- a. "Covered area "means the geographical area described in the solicitation from which this contract resulted;
- b. "Director" means Director, Office of Federal Contract Compliance Programs, United States Department of Labor, or any person to whom the Director delegates authority;
- c. "Employer identification number" means the Federal Social Security number used on the Employer's Quarterly Federal Tax Return, U.S. Treasury Department Form 941.
  - d. "Minority" includes:
- (I) Black (all persons having origins in any of the Black African racial groups not of Hispanic origin);
- (ii) Hispanic (all persons of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish culture or origin, regardless of race):
- (iii) Asian and Pacific Islander (all persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands); and,
- (iv) American Indian or Alaskan Native (all persons having origins in any of the original peoples of North America and maintaining identifiable tribal affiliations through membership and participation or community identification).
- 2. Whenever the Contractor, or any Subcontractor at any tier, subcontracts a portion of the work involving any construction trade, it shall physically include in each subcontract in excess of \$10,000 the provisions of these specifications and the Notice which contains the applicable goals for minority and female participation and which is set forth in the solicitations from which this contract resulted.
- 3. If the Contractor is participating (pursuant to 41 CFR 60-4.5) in a Hometown Plan approved by the U.S. Department of Labor in the covered area either individually or through an association, its affirmative action obligations on all work in the Plan area (including goals and timetables) shall be in accordance with that Plan for those trades which have unions participating in the Plan. Contractors must be able to demonstrate their participation in and compliance with the provisions of any such Hometown Plan. Each Contractor or Subcontractor participating in an approved Plan is individually required to comply with its obligations under the EEO clause, and to make a good faith effort to achieve each goal under the Plan in each trade in which it has employees. The overall good faith performance by other Contractors or Subcontractors toward a goal in an approved Plan does not excuse any covered Contractor's or Subcontractor's failure to take good faith efforts to achieve the Plan goals and time tables.
- 4. The Contractor shall implement the specific affirmative action standards provided in paragraphs 7 a through p of these specifications. The goals set forth in the solicitation from which this contract resulted

are expressed as percentages of the total hours of employment and training of minority and female utilization the Contractor should reasonably be able to achieve in each construction trade in which it has employees in the covered area. Covered construction contractors performing construction work in geographical areas where they do not have a Federal or federally assisted construction contract shall apply the minority and female goals established for the geographical area where the work is being performed. Goals are published periodically in the Federal Register in notice form, and such notices may be obtained from any Office of Federal Contract Compliance Programs office or from Federal procurement contracting officers. The Contractor is expected to make substantially uniform progress in meeting its goals in each craft during the period specified.

- 5. Neither the provisions of any collective bargaining agreement, nor the failure by a union with whom the Contractor has a collective bargaining agreement, to refer either minorities or women shall excuse the Contractor's obligations under these specifications, Executive Order 11246, or the regulations promulgated pursuant thereto.
- 6. In order for the nonworking training hours of apprentices and trainees to be counted in meeting the goals, such apprentices and trainees must be employed by the Contractor during the training period, and the Contractor must have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities. Trainees must be trained pursuant to training programs approved by the U.S. Department of Labor.
- 7. The Contractor shall take specific affirmative actions to ensure equal employment opportunity. The evaluation of the Contractor's compliance with these specifications shall be based upon its effort to achieve maximum results from its actions. The Contractor shall document these efforts fully, and shall implement affirmative action steps at least as extensive as the following:
- a. Ensure and maintain a working environment free of harassment, intimidation, and coercion at all sites, and in all facilities at which the Contractor's employees are assigned to work. The Contractor, where possible, will assign two or more women to each construction project. The Contractor shall specifically ensure that all foremen, superintendents, and other on-site supervisory personnel are aware of and carry out the Contractor's obligation to maintain such a working environment, with specific attention to minority or female individuals working at such sites or in such facilities.
- b. Establish and maintain a current list of minority and female recruitment sources, provide written notification to minority and female recruitment sources and to community organizations when the Contractor or its unions have employment opportunities available, and maintain a record of the organizations' responses.
- c. Maintain a current file of the names, addresses and telephone numbers of each minority and female off-the-street applicant and minority or female referral from a union, a recruitment source or community organization and of what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to Contractor by the union or, if referred, not employed by the Contractor, this shall be documented in the file with the reason therefor, along with whatever additional actions the Contractor may have taken.
  - d. Provide immediate written notification to the Director when the

- union or unions with which the Contractor has a collective bargaining agreement has not referred to the Contractor a minority person or woman sent by the Contractor, or when the Contractor has other information that the union referral process has impeded the Contractor's efforts to meet its obligations.
- e. Develop on-the-job training opportunities and/or participate in training programs for the area which expressly include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the Contractor's employment needs, especially those programs funded or approved by the Department of Labor. The Contractor shall provide notice of these programs to the sources compiled under 7b above.
- f. Disseminate the Contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the Contractor in meeting its EEO obligations; by including it in any policy manual and collective bargaining agreement; by publicizing it in the company newspaper, annual report, etc.; by specific review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.
- g. Review, at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination or other employment decisions including specific review of these items with onsite supervisory personnel such as Superintendents, General Foremen, etc., prior to the initiation of construction work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and disposition of the subject matter.
- h. Disseminate the Contractor's EEO policy externally by including it in any advertising in the news media, specifically including minority and female news media, and providing written notification to and discussing the Contractor's EEO policy with other Contractors and Subcontractors with whom the Contractor does or anticipates doing business.
- I. Direct its recruitment efforts, both oral and written, to minority, female and community organizations, to schools with minority and female students and to minority and female recruitment and training organizations serving the Contractor's recruitment area and employment needs. Not later than one month prior to the date for the acceptance of applications for apprenticeship or other training by any recruitment sources, the Contractor shall send written notification to organizations such as the above, describing the openings, screening procedures and tests to be used in the selection process.
- j. Encourage present minority and female employees to recruit other minority persons and women and, where reasonable, provide after school, summer and vacation employment to minority and female youth both on the site and in other areas of a Contractor's work force.
- k. Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR Part 60-3.
- I. Conduct, at least annually, an inventory and evaluation at least of all minority and female personnel for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.
- m. Ensure that seniority practices, job classifications, work assignments and other personnel practices, do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and the

Contractor's obligations under these specifications are being carried out.

- n. Ensure that all facilities and company activities are nonsegregated except that separate or single-user toilet and necessary changing facilities shall be provided to assure privacy between the sexes
- o. Document and maintain a record of all solicitations of offers for subcontracts from minority and female construction contractors and suppliers, including circulation of solicitations to minority and female contractor associations and other business associations.
- p. Conduct a review, at least annually, of all supervisors' adherence to and performance under the Contractors's EEO policies and affirmative action obligations.
- 8. Contractors are encouraged to participate in voluntary associations which assist in fulfilling one or more of their affirmative action obligations (7a through p). The efforts of a contractor association, joint contractorunion, contractor-community, or other similar group of which the contractor is a member and participant, may be asserted as fulfilling any one or more of its obligations under 7a through p of these Specifications provided that the contractor actively participates in the group, makes every effort to assure that the group has a positive impact on the employment of minorities and women in the industry, ensure that the concrete benefits of the program are reflected in the Contractor's minority and female workforce participation, makes a good faith effort to meet its individual goals and timetables, and can provide access to documentation which demonstrates the effectiveness of actions taken on behalf of the Contractor. The obligation to comply, however, is the Contractor's and failure of such a group to fulfill an obligation shall not be a defense for the Contractor's noncompliance.
- 9. A single goal for minorities and a separate single goal for women have been established. The Contractor, however, is required to provide equal employment opportunity and to take affirmative action for all minority groups, both male and female, and all women, both minority and non-minority. Consequently, the Contractor may be in violation of the Executive Order if a particular group is employed in a substantially disparate manner (for example, even thought the Contractor has achieved its goals for women generally, the Contractor may be in violation of the Executive Order if a specific minority group of women is underutilized).
- 10. The Contractor shall not use the goals and timetables or affirmative action standards to discriminate against any person because

of race, color, religion, sex, or national origin.

- 11. The Contractor shall not enter into any Subcontract with any person or firm debarred from Government contracts pursuant to Executive Order 11246.
- 12. The Contractor shall carry out such sanctions and penalties for violation of these specifications and of the Equal Opportunity Clause, including suspension, termination and cancellation of existing subcontracts as may be imposed or ordered pursuant to Executive Order11246, as amended, and its implementing regulations, by the Office of Federal Contract Compliance Programs. Any Contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Executive Order 11246, as amended.
- 13. The Contractor, in fulfilling its obligations under these specifications, shall implement specific affirmative action steps, at least as extensive as those standards prescribed in paragraph 7 of these specifications, so as to achieve maximum results from its efforts to ensure equal employment opportunity. If the Contractor fails to comply with the requirements of the Executive Order, the implementing regulations, or these specifications, the Director shall proceed in accordance with 41 CFR 60-4.8.
- 14. The Contractor shall designate a responsible official to monitor all employment related activity to ensure that the company EEO policy is being carried out, to submit reports relating to the provisions hereof as may be required by the Government and to keep records. Records shall be at least include for each employee the name, address, telephone numbers, construction trade, union affiliation if any, employee identification number when assigned, social security number, race, sex, status (e.g., mechanic, apprentice trainee, helper, or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and locations at which the work was performed. Records shall be maintained in an easily understandable and retrievable form; however, to the degree that existing records satisfy this requirement, contractors shall not be required to maintain separate records.
- 15. Nothing herein provided shall be construed as a limitation upon the application of other laws which establish different standards of compliance or upon the application of requirements for the hiring of local or other area residents (e.g., those under the Public Works Employment Act of 1977 and the Community Development Block Grant Program).

#### AFFIRMATIVE ACTION FOR HANDICAPPED WORKERS

- (a) The contractor will not discriminate against any employee or applicant for employment because of physical or mental handicap in regard to any position for which the employee or applicant for employment is qualified. The contractor agrees to take affirmative action to employ, advance in employment and otherwise treat qualified handicapped individuals without discrimination based upon their physical or mental handicap in all employment practices such as the following: Employment, upgrading, demotion or transfer, recruitment, advertising, layoff or termination, rates of pay or other forms of compensation, and selection for training, including apprenticeship.
- (b) The contractor agrees to comply with the rules, regulations, and relevant orders of the Secretary of Labor issued pursuant to the Act.
- © In the event of the contractor's noncompliance with the requirements of this clause, actions for noncompliance may be taken in accordance with rules, regulations, and relevant orders of the Secretary of Labor issued pursuant to the Act.
- (d) The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices in form to be prescribed by the Director, provided by or through the contracting officer. Such notices shall state the contractor's obligation under the law to take affirmative action to employ and advance in employment qualified handicapped employees and applicants for employment, and the rights of applicants and employees.
- (e) The contractor will notify each labor union or representative of workers with which it has a collective bargaining agreement or other contract understanding, that the contractor is bound by the terms of section 503 of the Rehabilitation Act of 1973, and is committed to take affirmative action to employ and advance in employment physically and mentally handicapped individuals.
- (f) The contractor will include the provisions of this clause in every subcontract or purchase order of \$10,000 or more unless exempted by rules, regulations, or orders of the Secretary issued pursuant to section 503 of the Act, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as the Director of the Office of Federal Contract Compliance Programs may direct to enforce such provisions, including action for noncompliance.

#### AFFIRMATIVE ACTION FOR DISABLED VETERANS AND VETERANS OF THE VIETNAM ERA

- (a) The contractor will not discriminate against any employee or applicant for employment because he or she is a disabled veteran or veteran of the Vietnam era in regard to any position for which the employee or applicant for employment is qualified. The contractor agrees to take affirmative action to employ, advance in employment and otherwise treat qualified disabled veterans and veterans of the Vietnam era without discrimination based upon their disability or veterans status in all employment practices such as the following: Employment upgrading, demotion or transfer, recruitment, advertising, layoff or termination, rates of pay or other forms of compensation, and selection for training, including apprenticeship.
- (b) The contractor agrees to list all employment openings which exist at the time of the execution of this contract and those which occur during the performance of this contract, including those not generated by this contract and including those occurring at an establishment of the contractor other than the one wherein the contract is being performed

- but excluding those of independently operated corporate affiliates, at an appropriate local office of the State employment service system wherein the opening occurs.
- © Listing of employment openings with the employment service system pursuant to this clause shall be made at least concurrently with the use of any other recruitment source or effort and shall involve the normal obligations which attach to the placing of a bona fide job order, including the acceptance of referrals of veterans and non-veterans. The listing of employment openings does not require the hiring of any particular job applicant or from any particular group of job applicants, and nothing herein is intended to relieve the contractor from any requirements in Executive orders or regulations regarding nondiscrimination in employment.
- (d) The reports required by paragraph (b) of this clause shall include, but not be limited to, periodic reports which shall be filed at least quarterly with the appropriate local office or, where the contractor has more than one hiring location in a State, with the central office of that State employment service. Such reports shall indicate for each hiring location (1) the number of individuals hired during the reporting period, (2) the number of nondisabled veterans of the Vietnam era hired, (3) the number of disabled veterans of the Vietnam era hired, and (4) the total number of disabled veterans hired. The reports should include covered veterans hired for on-the-job training under 38 U.S.C. 1787. The contractor shall submit a report within 30 days after the end of each reporting period wherein any performance is made on this contract identifying data for each hiring location. The contractor shall maintain at each hiring location copies of the reports submitted until the expiration of one year after final payment under the contract, during which time these reports and related documentation shall be made available, upon request, for examination by any authorized representative of the contracting officer of the Secretary of Labor. Documentation would include personnel records respecting job openings, recruitment and placement.
- (e) Whenever the contractor becomes contractually bound to the listing provisions of this clause, it shall advise the employment service system in each State where it has establishments of the name and location of each hiring location in the State. As long as the contractor is contractually bound to these provisions and has so advised the State system, there is no need to advise the State system of subsequent contracts. The contractor may advise the State system when it is no longer bound by this contract clause.
- (f) This clause does not apply to the listing of employment openings which occur and are filled outside of the 50 States, the District of Columbia, Puerto Rico, Guam, and the Virgin Islands.
- (g) The provisions of paragraphs (b), (c), (d), and (e) of this clause do not apply to openings which the contractor proposes to fill from within his own organization or to fill pursuant to a customary and traditional employer-union hiring arrangement. This exclusion does not apply to a particular opening once an employer decides to consider applicants outside of his own organization or employer-union arrangement for that opening.
- (h) As used in this clause: (1) "All employment openings" includes all positions except executive and top management, those positions that will be filled from within the contractor's organization, and positions lasting three days or less. This terms includes full-time employment, temporary employment of more than three days' duration, and part-time employment.
- (2) "Appropriate office of the State employment service system" means the local office of the Federal-State national system of public

employment offices with assigned responsibility for serving the area where the employment opening is to be filled, including the District of Columbia, Guam, the Commonwealth of Puerto Rico, and the Virgin Islands.

- (3) "Positions that will be filled from within the contractor's organization" means employment openings for which no consideration will be given to persons outside the contractor's organization (including any affiliates, subsidiaries, and the parent companies) and includes any openings which the contractor proposes to fill from regularly established "recall" lists. The exception does not apply to a particular opening once an employer decides to consider applicants outside of his or her own organization.
- (4) "Openings which the contractor proposes to fill pursuant to a customary and traditional employer-union hiring arrangement" means employment openings which the contractor proposes to fill from union halls, which is part of the customary and traditional hiring relationship which exists between the contractor and representatives of his employees.
- (I) The contractor agrees to comply with the rules, regulations and relevant orders of the Secretary of Labor issued pursuant to the Act.
- (j) In the event of the contractor's noncompliance with the requirements of this clause, actions for noncompliance may be taken in accordance with the rules, regulations, and relevant orders of the Secretary of Labor issued pursuant to the Act.
- (k) The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices in a form to be prescribed by the Director, provided by or through the contracting officer. Such notice shall state the contractor's obligation under the law to take affirmative action to employ and advance in employment qualified disabled veterans and veterans of the Vietnam era for employment, and the rights of applicants and employees.
- (I) The contractor will notify each labor union or representative of workers with which it has a collective bargaining agreement or other contract understanding, that the contractor is bound by the terms of Vietnam Era Veterans Readjustment Assistance Act, and is committed to take affirmative action to employ and advance in employment qualified disabled veterans and veterans of the Vietnam era.
- (m) The contractor will include the provisions of this clause in every subcontract or purchase order of \$10,000 or more unless exempted by rules, regulations, or orders of the Secretary issued pursuant to the Act, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as the Director of the Office of Federal Contract Compliance Programs may direct to enforce such provisions, including action for noncompliance.

SECTION 3 OF THE HOUSING AND COMMUNITY

#### DEVELOPMENT ACT OF 1968, AS AMENDED

- 1. The work to be performed under this contract is on a project assisted under a program providing direct Federal financial assistance from the Department of Housing and Urban Development and is subject to the requirements of the Housing and Urban Development Act of 1968, as amended, 12 U.S.C. 170lu. Section 3 requires that to the greatest extent feasible opportunities for training and employment be given lower income residents of the project area and contracts for work in connection with the project be awarded to business concerns which are located in, or owned in substantial part by persons residing in the area of the project.
- 2. The parties to this contract will comply with the provisions of said Section 3 and the regulations issued pursuant thereto by the Secretary of Housing and Urban Development set forth in 24 CFR 135, and all applicable rules and order of the Department issued thereunder prior to the execution of this contract. The parties to this contract certify and agree that they are under no contractual or other disability which would prevent them from complying with these requirements.
- 3. The contractor will send to each labor organization or representative of workers with which he has a collective bargaining agreement or other contract or understanding, if any, a notice advising the said labor organization or worker's representative of his commitments under this Section 3 clause and shall post copies of the notice in conspicuous places available to employees and applicants for employment or training.
- 4. The contractor will include this Section 3 clause in every subcontract for work in connection with the project and will, at the direction of the applicant take appropriate action pursuant to the subcontract upon a finding that the subcontractor is in violation of regulations issued by the Secretary of Housing and Urban Development, 24 CFR Part 135. The contractor will not subcontract with any subcontractor where it has notice or knowledge that the latter has been found in violation of regulations under 24 CFR Part 135 and will not let any subcontract unless the subcontractor has first provided it with a preliminary statement of ability to comply with the requirements of these regulations.
- 5. Compliance with the provisions of Section 3, the regulations set forth in 24 CFR Part 135, and all applicable rules and orders of the Department issued hereunder prior to the execution of the contract, shall be a condition of the federal financial assistance provided to the project,

binding upon the applicant or recipient for such assistance, its successors and assigns. Failure to fulfill these requirements shall subject the applicant or recipient, its contractors and subcontractors, its successors and assigns to those sanctions specified by the grant or loan agreement or contract through which federal assistance is provided, and to such sanctions as are specified by 24 CFR Part 135.

#### **Clean Air and Water Provisions**

During the performance of this contract, the contractor agrees as follows:

- (1) The contractor will certify that any facility to be utilized in the performance of any nonexempt contract or subcontract is not listed on the List of Violating Facilities issued by the Environmental Protection Agency pursuant to 40 CFR 15.20.
- (2) The contractor agrees to comply with all the requirements of Section 114 of the Clean Air Act, as amended, (42 U.S.C. 1958c-8) and Section 308 of the Federal Water Pollution Control Act, as amended (33 U.S.C. 1318) relating to inspection, monitoring, entry, reports, and information, as well as all other requirements specified in
- said Section 114 and Section 308, and all regulations and guidelines issued thereunder.
- (3) The contractor agrees that as a condition for the award of the contract, prompt notice will be given of any notification received from the Director, Office of Federal Activities, Environmental Protection Agency, indicating that a facility utilized or to be utilized for the contract is under consideration to be listed on the Environmental Protection Agency List of Violating Facilities.
- (4) The contractor agrees that it will include or cause to be included the criteria and requirements in Paragraph (1) through (4) of this section in every nonexempt subcontract and require every subcontractor to take such action as the Government may direct as a means of enforcing such provisions.

#### Attachment B

#### **Davis Bacon Wage Decision**

The minimum wage rates from the U.S. Department of Labor are attached. Wage rates paid under this Contract shall not be less than the wage rates set forth on the attached General Decision.

General Decision Number: NH130033 01/04/2013 NH33

Superseded General Decision Number: NH20120033

State: New Hampshire

Construction Type: Highway

County: Rockingham County in New Hampshire.

HIGHWAY CONSTRUCTION PROJECTS (excluding tunnels, building structures in rest area projects & railroad construction; bascule, suspension & spandrel arch bridges designed for commercial navigation, bridges involving marine construction; and other major bridges).

Modification Number

Publication Date 01/04/2013

#### \* SUNH2011-029 08/15/2011

	Rates	Fringes
CARPENTER (Excluding Form Work)	\$ 23.13	2.51
CARPENTER (Form Work Only)	\$ 20.57	1.06
ELECTRICIAN	\$ 23.22	2.78
INSTALLER - GUARDRAIL	\$ 22.29	11.84
IRONWORKER, REINFORCING	\$ 18.00	0.00
IRONWORKER, STRUCTURAL	\$ 34.45	17.20
LABORER: BLASTER, ROCK	\$ 28.38	9.46
LABORER: Common or General	\$ 16.99	2.60
LABORER: Flagger	\$ 10.42	1.37
LABORER: Highway/Parking Lot Striping	\$ 16.77	0.00
LABORER: Landscape	\$ 14.65	0.00
LABORER: Pipelayer	\$ 18.29	4.33
OPERATOR: Auger	\$ 26.07	0.00
OPERATOR: Backhoe	\$ 27.72	4.17
OPERATOR: Bobcat/Skid Steer/Skid Loader	3 19.25	0.00
OPERATOR: Bucket	30.00	0.00

OPERATOR:	Bulldozer\$	24.59	6.11
OPERATOR:	Crane\$	23.95	3.29
OPERATOR:	Drill Rig Caissons\$	36.86	19.78
OPERATOR:	Excavator\$	24.72	5.58
OPERATOR:	Grader/Blade\$	25.16	6.97
OPERATOR:	Loader\$	24.10	5.72
OPERATOR:	Mechanic\$	16.92	3.44
OPERATOR:	Oiler\$	29.54	16.15
OPERATOR:	Paver\$	23.43	0.00
OPERATOR:	Roller\$	22.27	6.57
OPERATOR:	Post Driver/Pounder\$	27.24	7.90
	YER, Includes all uding Dump Trucks\$	17.51	3.03
TRUCK DRIV	ER: Low Bed Truck\$	21.43	6.30

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

\_\_\_\_\_

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is union or non-union.

#### Union Identifiers

An identifier enclosed in dotted lines beginning with characters other than "SU" denotes that the union classification and rate have found to be prevailing for that classification. Example: PLUM0198-005 07/01/2011. The first four letters , PLUM, indicate the international union and the four-digit number, 0198, that follows indicates the local union number or district council number where applicable , i.e.,

Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. The date, 07/01/2011, following these characters is the effective date of the most current negotiated rate/collective bargaining agreement which would be July 1, 2011 in the above example.

Union prevailing wage rates will be updated to reflect any changes in the collective bargaining agreements governing the rates.

0000/9999: weighted union wage rates will be published annually each January.

#### Non-Union Identifiers

Classifications listed under an "SU" identifier were derived from survey data by computing average rates and are not union rates; however, the data used in computing these rates may include both union and non-union data. Example: SULA2004-007 5/13/2010. SU indicates the rates are not union majority rates, LA indicates the State of Louisiana; 2004 is the year of the survey; and 007 is an internal number used in producing the wage determination. A 1993 or later date, 5/13/2010, indicates the classifications and rates under that identifier were issued as a General Wage Determination on that date.

Survey wage rates will remain in effect and will not change until a new survey is conducted.

#### WAGE DETERMINATION APPEALS PROCESS

- 1.) Has there been an initial decision in the matter? This can be:
- \* an existing published wage determination
- \* a survey underlying a wage determination
- \* a Wage and Hour Division letter setting forth a position on a wage determination matter
- \* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations Wage and Hour Division

U.S. Department of Labor 200 Constitution Avenue, N.W. Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator U.S. Department of Labor 200 Constitution Avenue, N.W. Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

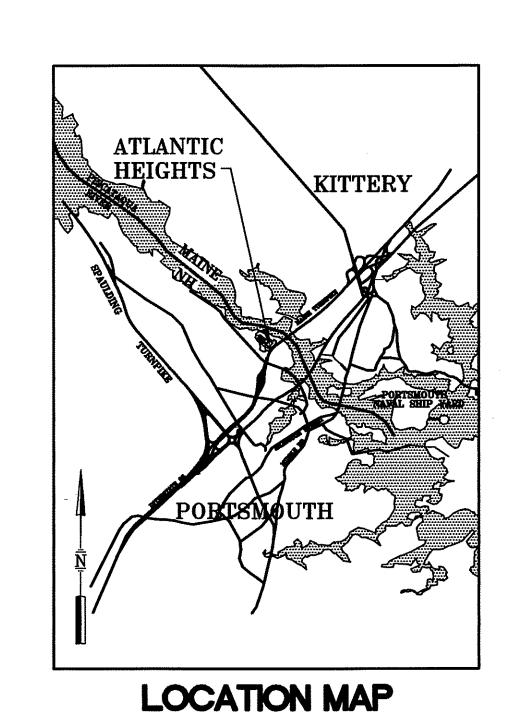
3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board U.S. Department of Labor 200 Constitution Avenue, N.W. Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

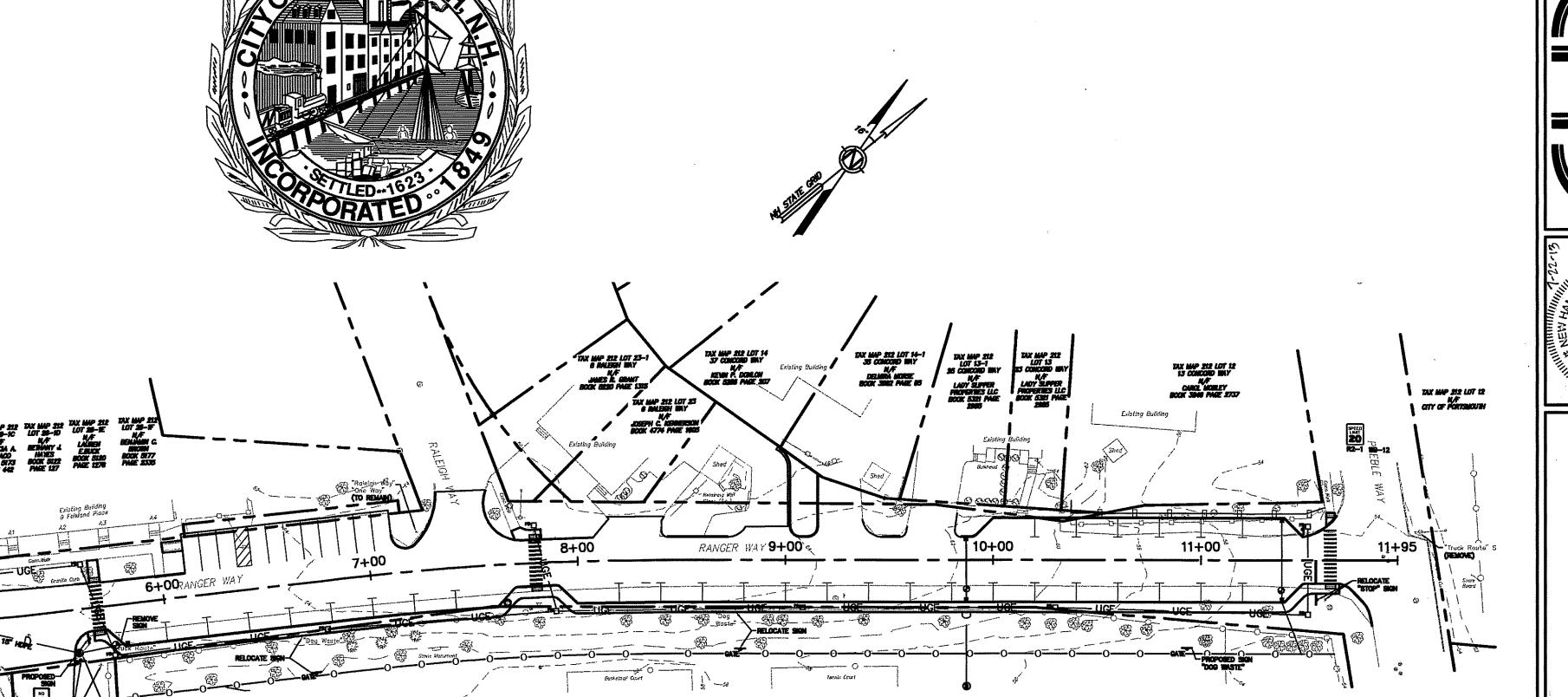
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END OF GENERAL DECISION



# ATLANTIC HEIGHTS STREETSCAPE IMPROVEMENTS

RANGER WAY PORTSMOUTH, NEW HAMPSHIRE



VERTICAL DATUM - NORTH AMERICAN VERTICAL DATUM (1988)

ALL WORK CONTEMPLATED UNDER THIS CONTRACT SHALL BE GOVERNED BY AND BE IN CONFORMITY WITH THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, CURRENT EDITION, ANY SUPPLEMENTS THERETO, CURRENT NHDOT GOVERNING STANDARDS, SPECIAL PLANS AND CURRENT CITY STANDARDS.

CLIENT: CITY OF PORTSMOUTH 1 JUNKINS AVENUE PORTSMOUTH, NH 03802

## LIST OF SHEETS

TITLE SHEET

GENERAL NOTES, STANDARD SYMBOLS AND LEGEND

TYPICAL SECTIONS

EXISTING CONDITIONS PLANS GENERAL PLANS AND PROFILE

LANDSCAPE PLANS

CROSS SECTIONS

14-15 DETAILS

AS NOTED JUNE 2013

#### **LEGEND PROPOSED** UNDERGROUND UTILITIES TELEPHONE LINE GAS LINE WATER LINE OVERHEAD UTILITIES DRAIN LINE SEWER LINE VERTICAL GRANITE CURB CHAIN LINK FENCE STOCKADE FENCE PULL BOX SEWER MANHOLE CATCH BASIN DRAIN MANHOLE FIRE HYDRANT GAS GATE WATER VALVE STREET SIGN LIGHT POLE UTILITY POLE **BENCHMARK** GUY POLE IRON PIN.DRILL HOLE.BOUND DECIDUOUS TREE SEE LANDSCAPE PLAN \*\*\* CONIFER TREE EXISTING STONE WALL PROPERTY LINE

#### **GENERAL NOTES:**

- THE CITY OF PORTSMOUTH SHALL HAVE THE RIGHT AND AUTHORITY TO DETERMINE THE ACCEPTABILITY OF WORK AND MATERIAL IN PROGRESS OR COMPLETED. THE CITY SHALL HAVE THE RIGHT TO REJECT ANY WORK OR MATERIALS WHICH DO NOT CONFORM, IN ITS SOLE OPINION, TO THE PLANS OR SPECIFICATIONS.
- 2. THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH CITY OF PORTSMOUTH AND NHDOT STANDARD SPECIFICATIONS, CURRENT EDITIONS AND SPECIAL PROVISIONS.
- 3. CONSTRUCTION SHALL NOT COMMENCE UNTIL AUTHORIZED BY THE CITY OF PORTSMOUTH.
- 4. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS, AND REPORT ANY DISCREPANCIES TO THE CITY. THE CONTRACTOR SHALL PROCEED WITH THE WORK ONLY AFTER ANY DISCREPANCIES HAVE BEEN RESOLVED BY THE CITY.
- 5. CARE SHALL BE TAKEN BY THE CONTRACTOR TO PROTECT EXISTING SYSTEMS AND SURFACES TO REMAIN. ALL DAMAGE RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED AS DIRECTED BY THE CITY AT NO ADDITIONAL COST TO THE CITY.
- 6. AT THE END OF EACH WORKING DAY, THE CONSTRUCTION SITE SHALL BE LEFT IN A SAFE AND ORDERLY MANNER (SEE SPECIFICATIONS -CONTROL OF THE WORK).
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS WHICH ARE REQUIRED FOR THE SATISFACTORY COMPLETION OF THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR ALL DIGSAFE NOTIFICATION REQUIREMENTS.
- NO EXISTING SURVEY MONUMENTS, BOUNDS, OR BENCHMARKS SHALL BE DISTURBED WITHOUT FIRST MAKING PROVISIONS FOR RESETTING.
- INITIAL SURVEY LAYOUT AND STAKING OF BENCHMARKS & CONSTRUCTION CENTERLINE, AT 50 FOOT INTERVALS FOR CONSTRUCTION PURPOSES WILL BE ESTABLISHED BY THE CITY PRIOR TO CONSTRUCTION. ADDITIONAL STAKING OF EITHER CENTERLINE OR TBM'S SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEQUENCING OF WORK AND SHALL PROVIDE THE CITY OF PORTSMOUTH WITH A SCHEDULE OF WORK FOR CONSTRUCTING THE IMPROVEMENTS, PRIOR TO BEGINNING WORK. MONTHLY UPDATES SHALL BE SUBMITTED TO THE CITY.
- 11. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE CITY OF PORTSMOUTH FOR APPROVAL A MINIMUM OF ONE WEEK PRIOR TO CONSTRUCTION WHICH CONFORMS TO THE FEDERAL HIGHWAY ADMINISTRATION'S "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS."
- 12. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN BARRICADES AT THE LIMITS OF ALL CLOSED SIDEWALKS, ROADWAYS, AND OPEN AREAS. THE LOCATION SHALL BE COORDINATED WITH THE CITY.
- 13. THE CONTRACTOR SHALL INSTALL AND PROPERLY MAINTAIN ALL APPROPRIATE CONSTRUCTION SIGNAGE FOR THE PROJECT (SEE CONTRACT DOCUMENTS FOR MORE INFORMATION). DURING CONSTRUCTION OF EACH PHASE, CONTRACTOR SHALL FOLLOW STANDARD TRAFFIC CONTROL PROCEDURES, CONSIDERING NEIGHBORHOOD TRAFFIC PATTERN, TO ENSURE THE SAFETY OF VEHICLES AND TO MAINTAIN ACCESS TO PRIVATE PROPERTIES AT ALL TIMES. PER CONTRACT DOCUMENTS, CONTRACTOR SHALL COORDINATE WITH CITY'S REPRESENTATIVE TO PROVIDE A PLAN FOR MAINTENANCE OF TRAFFIC DURING CONSTRUCTION.
- 14. DRIVEWAY ACCESS AND EMERGENCY VEHICLE ACCESS SHALL BE MAINTAINED AT ALL TIMES.

- 15. CONTRACTOR SHALL PREPARE A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PER PROJECT SPECIFICATIONS IN CONFORMANCE WITH NHDES AND EPA REGULATIONS. ALL EROSION CONTROL DETAILS SHALL COMPLY WITH NHDES BEST MANAGEMENT PRACTICES (BMP'S). THE SWPPP SHALL BE PREPARED AND SUBMITTED FOR RÉVIEW AND APPROVAL BY THE CITY PRIOR TO MOBILIZATION ON THE PROJECT SITE.
- 16. THE CONTRACTOR MUST USE THE NEW HAMPSHIRE STORMWATER MANUAL PUBLISHED BY NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SAFETY AS A MINIMUM. THIS WORK SHALL INCLUDE THE INSTALLATION OF EROSION CONTROL MEASURES PRIOR TO CONSTRUCTION AND THE REMOVAL OF EROSION CONTROL MEASURES AFTER THE AREAS ARE STABILIZED AND SUPPORTING VEGETATION IS WELL ESTABLISHED.
- 17. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR THE ELEVATION OF THE EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. UNDERGROUND FACILITIES INDICATED ON THE CROSS SECTIONS HAVE BEEN CARRIED OVER FROM THE PLAN VIEW DATA AND MAY ALSO INCLUDE FURTHER APPROXIMATIONS OF THE ELEVATIONS (DEPTHS) BASED UPON STRAIGHT LINE INTERPOLATION FROM THE NEAREST MANHOLES, GATE VALVES, OR TEST PITS. THIS INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AND DIG SAFE AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE WORK AND SCHEDULE ANY UTILITY RELOCATION WORK WITH THE PROPER UTILITY COMPANY.
- 18. ADJUSTING, ALTERING AND RELOCATING THE PROPERTY OF ANY PUBLIC UTILITY SHALL BE DONE BY THE UTILITY OWNER, SEPARATE FROM THIS CONTRACT UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL COOPERATE WITH THE OWNER IN THE PERFORMANCE OF THE WORK.
- 19. THE CONTRACTOR SHALL COORDINATE ALL GAS UTILITY LOCATION AND ADJUSTMENT WORK WITH UNITIL. ADJUSTMENT BY THE CONTRACTOR SHALL INCLUDE RESETTING ALL EXISTING GAS SERVICE VALVE BOXES THAT ARE WITHIN THE LIMITS OF THE RIGHT OF WAY TO PROPOSED GRADE. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE OTHER CONTRACT ITEMS.
- 20. SEE LANDSCAPING PLANS FOR LANDSCAPING NOTES.
- 21. THE CONTRACTOR SHALL CONTACT THE CITY IF EXISTING TREES TO REMAIN WILL BE AFFECTED BY EQUIPMENT OR MEANS/METHODS FOR CONSTRUCTION. ANY DAMAGE TO THE EXISTING TREES BY CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE BY AN APPROVED (BY THE CITY), INSURED, LICENSED PROFESSIONAL TREE COMPANY. PRUNING WILL BE CONDUCTED UNDER THE DIRECTION OF THE CITY'S REPRESENTATIVE.
- 22. UNSUITABLE MATERIAL, ROOTS, STUMPS AND SPOILS ASSOCIATED WITH TREE REMOVAL OR THE WORK IN GENERAL SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AT NO COST TO THE CITY. WORK SHALL BE SUBSIDIARY TO RELATED CONTRACT ITEMS (SEE SPECIFICATION SECTION 201).
- 23. TOPSOIL SHALL BE REMOVED FOR ITS TOTAL DEPTH WITHIN THE LIMITS OF DISTURBANCE. UNLESS OTHERWISE DIRECTED, THE TOPSOIL SHALL BE STOCKPILED AND USED IN ITS ENTIRETY UNDER SECTION 641-LOAM.

- 24. ALL MATERIAL REMOVED DURING THE COURSE OF THE WORK SHALL BE SALVAGED BY THE CONTRACTOR, UNLESS OTHERWISE DIRECTED BY THE CITY OR NOTED ON THE PLANS.
- 25. DISPOSITION OF SURPLUS MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SURPLUS MATERIAL SHALL NOT BE DISPOSED OF ON THE PROJECT SITE. DISPOSITION SHALL BE MADE ONLY AT WASTE AREAS WHICH ARE LICENSED TO ACCEPT SUCH MATERIALS. UNLESS THE MATERIALS CAN BE INCORPORATED IN FILLS IN OTHER PROJECTS OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL DISPOSAL PERMITS WHICH MAY BE REQUIRED.
- 26. IF ANY ITEMS TO BE REMOVED AND RESET ARE DAMAGED DURING REMOVAL, STORAGE OR RESETTING, THE DAMAGED MATERIALS SHALL BE REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE CITY OF PORTSMOUTH AT NO ADDITIONAL COST.
- 27. THE CONTRACTOR SHALL ANTICIPATE THAT GROUNDWATER WILL BE ENCOUNTERED DURING THE CONSTRUCTION AND SHALL INCLUDE SUFFICIENT COST WITHIN THEIR BID TO PROVIDE DEWATERING AS NECESSARY. NO SEPARATE PAYMENT SHALL BE MADE TO THE CONTRACTOR FOR DEWATERING.
- 28. OFFSETS TO CATCH BASINS AND MANHOLES ARE TO THE CENTER OF THE COVER OR GRATE.
- 29. VERTICAL GRANITE TERMINAL END SECTIONS (TIPDOWNS) SHALL BE USED AT THE LOCATIONS AT WHICH VERTICAL GRANITE CURB BEGINS OR ENDS.

7E 38 JUNKINS TSMOUTH,

SCALE:	JOB NO. 12-0345
DATE: <b>UNE 2013</b>	DWG.

# PROJECT UTILITY AND EMERGENCY CONTACTS

WATER - SEWER	PORTSMOUTH WATER DEPT.	MIKE JENKINS	(603) 427–1552
STORM DRAIN	PORTSMOUTH PUBLIC WORKS	TOM RICHTER (603) 766-1412	
GAS	UNITIL		
TELEPHONE	VERIZON	JOE CONSIDINE	(603) 427–5525
POWER	PSNH	JIM OSBOURNE	(603) 332-4227 EXT. 5342
CABLE TV	COMCAST CABLE		
FIRE ALARM	PORTSMOUTH FIRE DEPT.	NON EMERGENCY NUMBER	(603) 427–1515
POLICE DEPARTMENT	TRAFFIC DETAILS	NON EMERGENCY NUMBER	(603) 427–1514

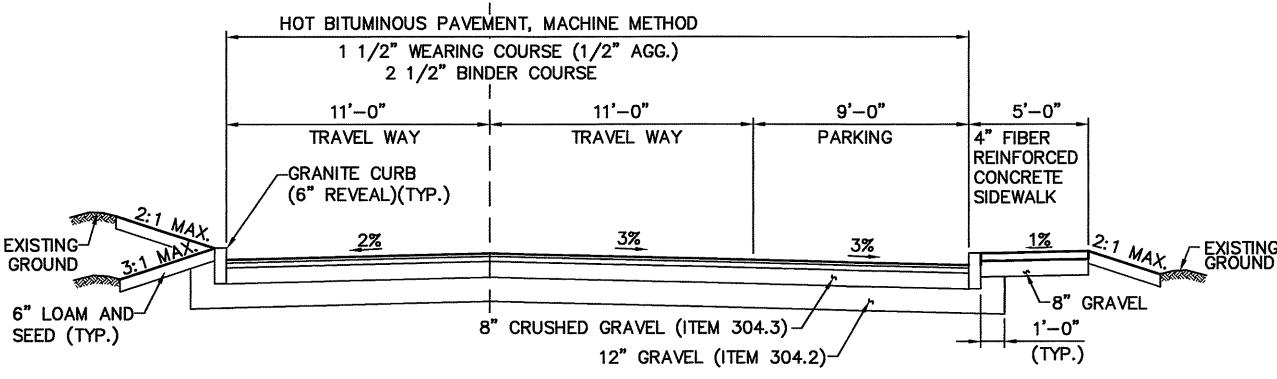


THE LOCATION OF ANY UTILITY INFORMATION SHOWN ON THIS PLAN IS APPROXIMATE. CLD ENG. INC. MAKES NO CLAIM TO THE ACCURACY OR COMPLETENESS OF UTILITIES SHOWN. 72 HOURS PRIOR TO ANY EXCAVATION ON SITE, THE CONTRACTOR SHALL CONTACT DIG-SAFE AT 1-888-DIG-SAFE.

# TYPICAL ROADWAY SECTION

(STA.  $1+00\pm$  TO STA.  $5+50\pm$ ) SCALE: 1/4" = 1'-0"

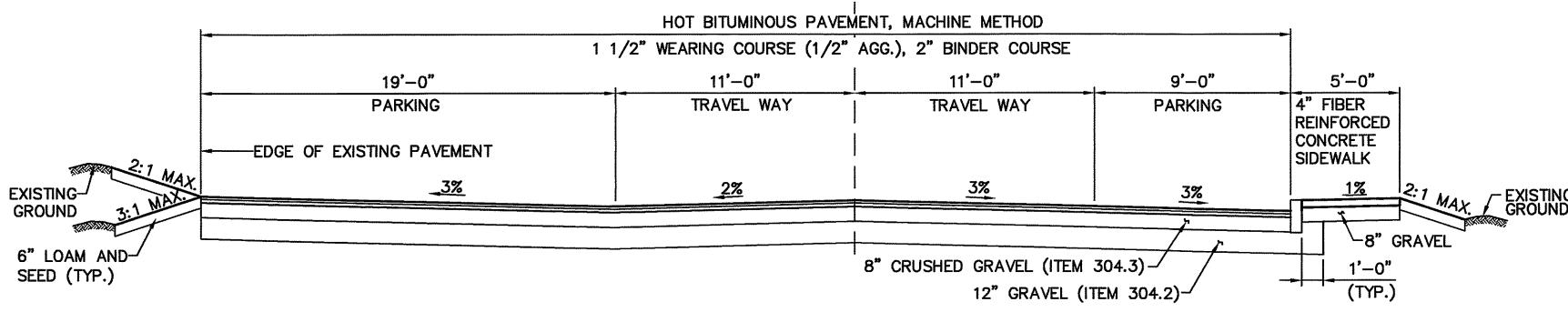
€ CONSTRUCTION



# TYPICAL ROADWAY SECTION - PARALLEL PARKING RIGHT

(STA.  $5+80\pm$  TO STA.  $6+10\pm$ , STA.  $7+10\pm$  TO STA.  $10+00\pm$ ) SCALE: 1/4" = 1'-0"

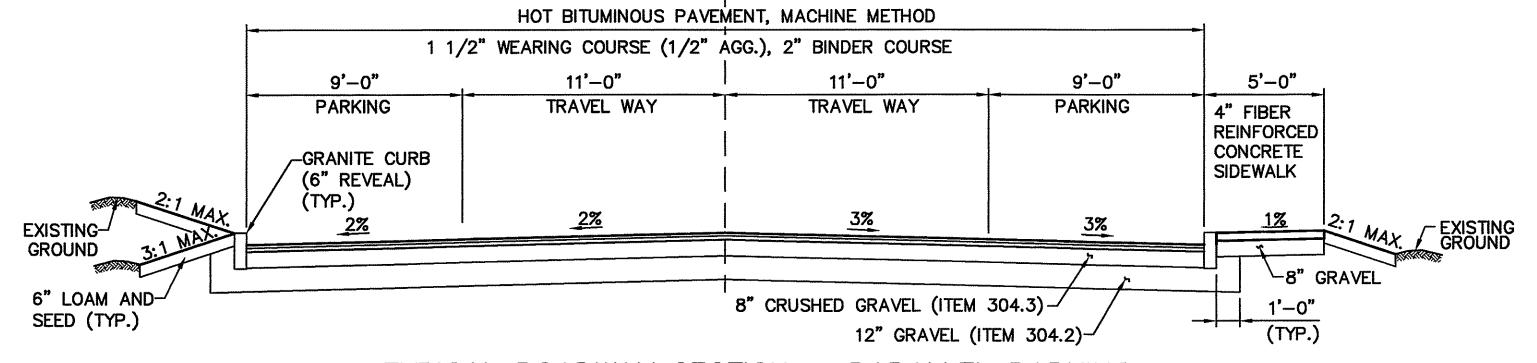
€ CONSTRUCTION



# TYPICAL ROADWAY SECTION — PARALLEL PARKING RIGHT PERPENDICULAR PARKING LEFT

(STA.  $6+10\pm$  TO STA.  $7+10\pm$ ) SCALE: 1/4" = 1'-0"

€ CONSTRUCTION



## TYPICAL ROADWAY SECTION — PARALLEL PARKING

LEFT AND RIGHT

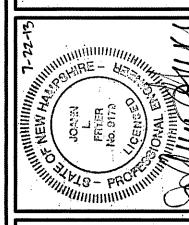
(STA.  $10+00\pm$  TO STA.  $11+50\pm$ ) SCALE: 1/4" = 1'-0"

#### SUBGRADE GRAVEL NOTE

THE CITY OF PORTSMOUTH MAINTAINS THE AUTHORITY TO MODIFY THE DEPTH AND EXTENT OF FULL BOX RECONSTRUCTION IN AREAS WHERE THE EXISTING SUBGRADE GRAVELS ARE DETERMINED TO BE ACCEPTABLE. THE CONTRACTOR SHALL COORDINATE WITH THE CITY TO DIG TEST PITS TO EXAMINE SUBGRADE AND TAKE GRAVEL SAMPLES. SAMPLES SHALL BE LAB TESTED AND SHALL PASS GRADATION REQUIREMENTS SET FORTH IN THE NH DOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION) IN ORDER TO BE ACCEPTABLE. ALL WORK ASSOCIATED WITH COORDINATING, EXCAVATING, AND SAMPLING SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND AT NO ADDITIONAL COST TO THE CITY. LAB TESTING FEES TO BE PAID FOR BY THE CITY OF PORTSMOUTH OUTSIDE OF THIS CONTRACT.

CONSULTING
ENGINEERS

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(207) 363-0669 · Fax: (207) 363-2384
cld@cldengineers.com · www.cldengineers.com
Maine · New Hampshire · Vermont



SITY OF PORTSMOUTH

1 JUNKINS AVENUE

PORTSMOUTH, NH 03801

RANGER WAY

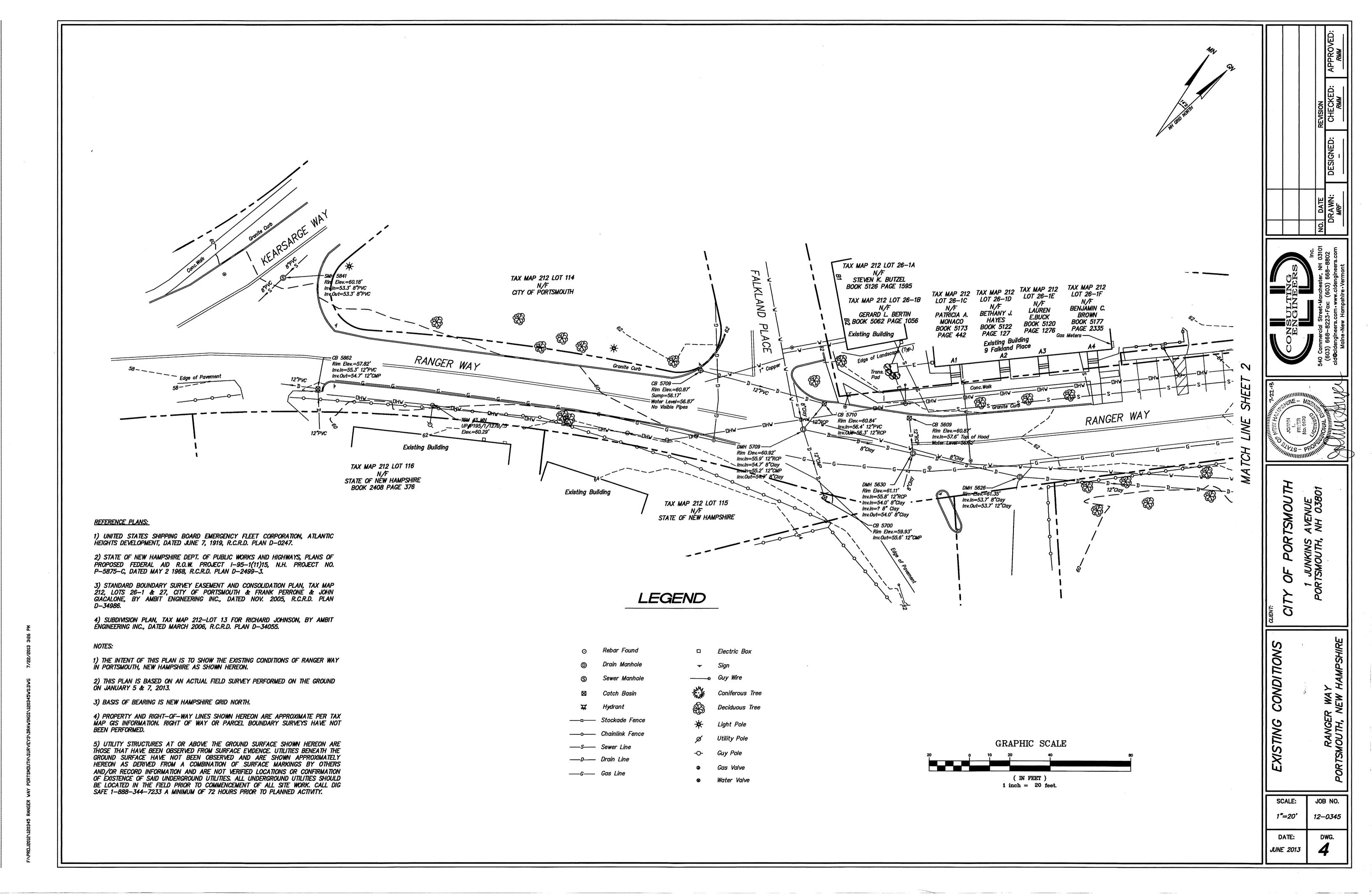
SCALE: JOB NO.

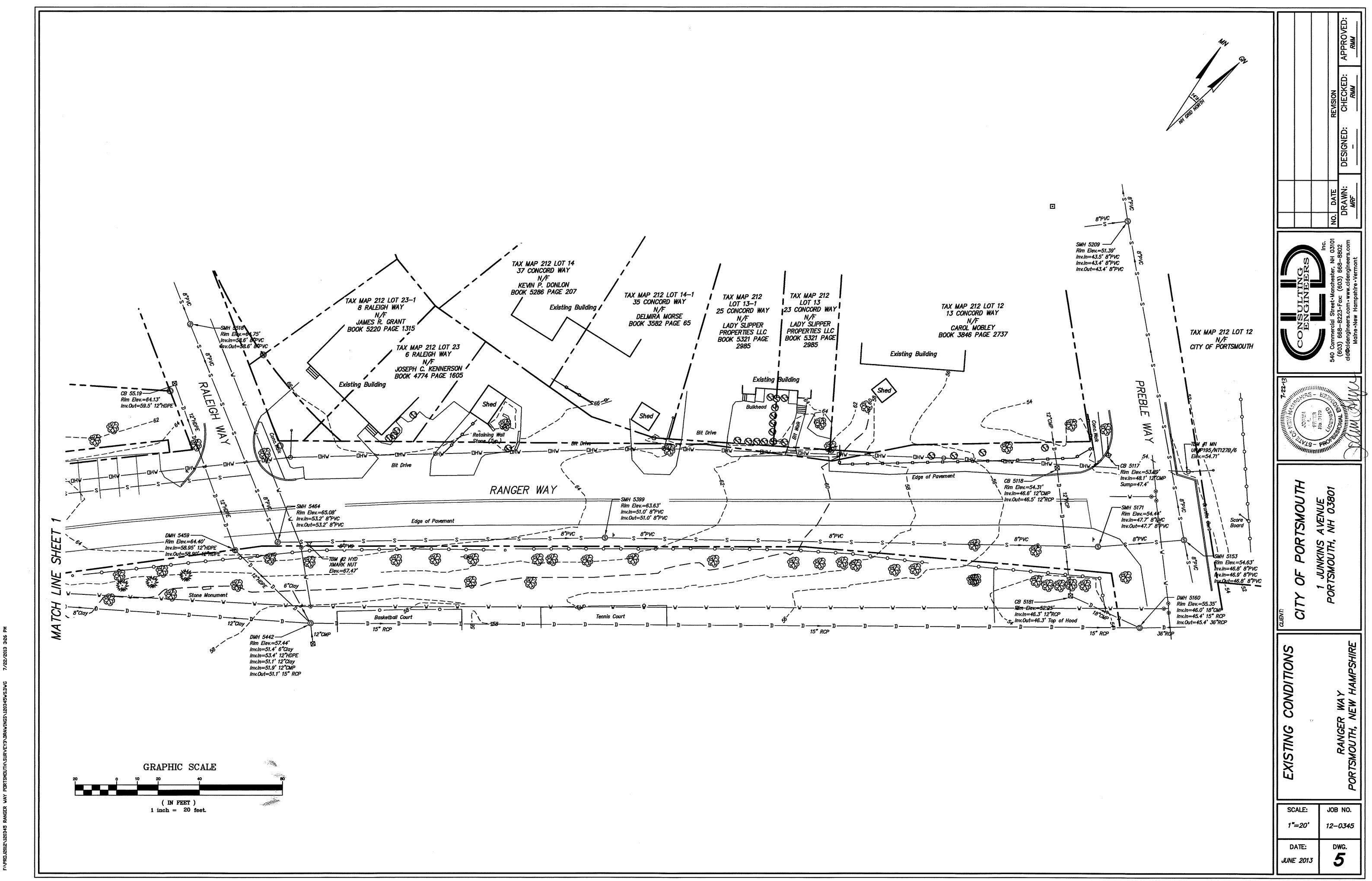
AS NOTED 12-0345

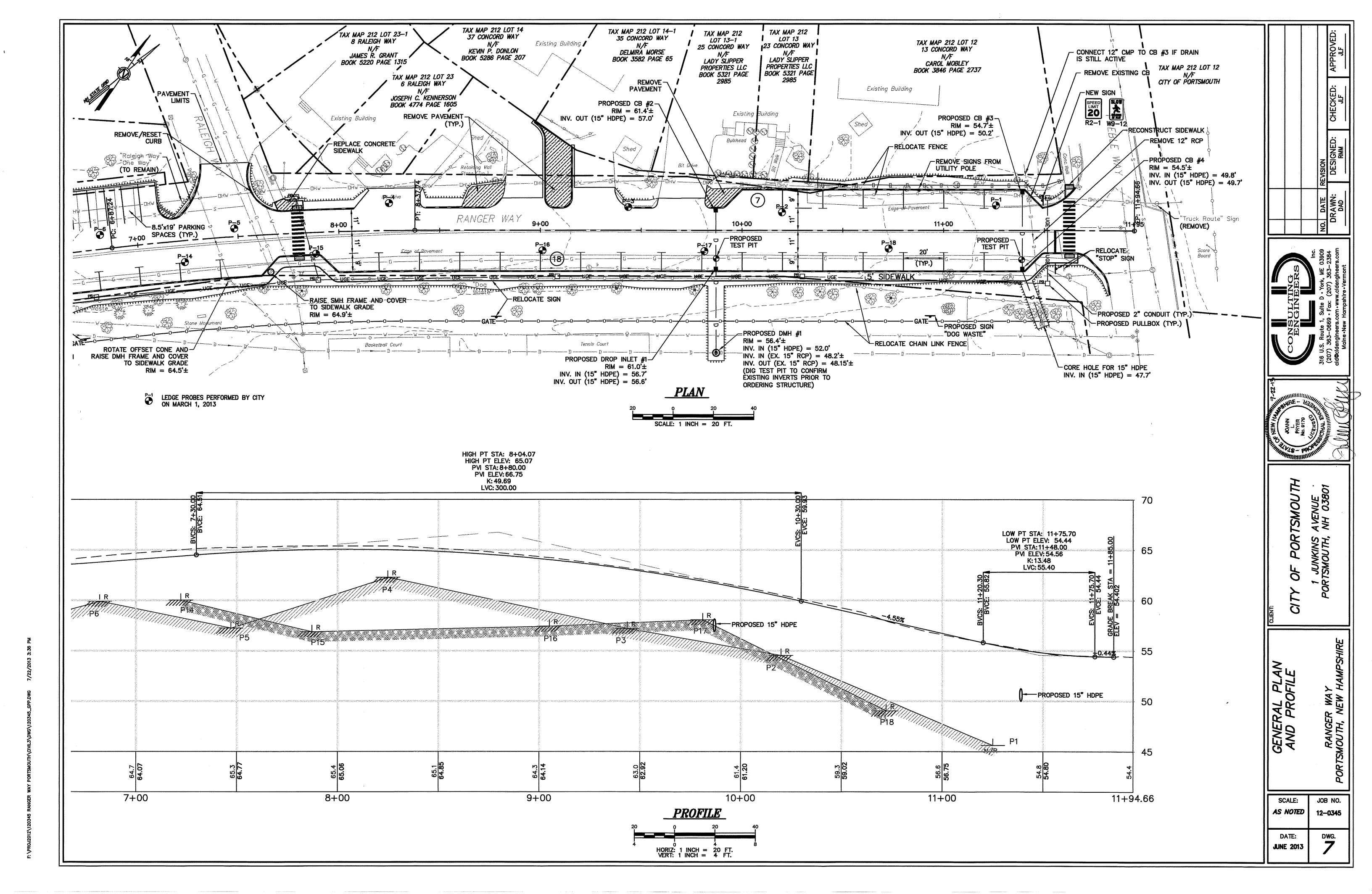
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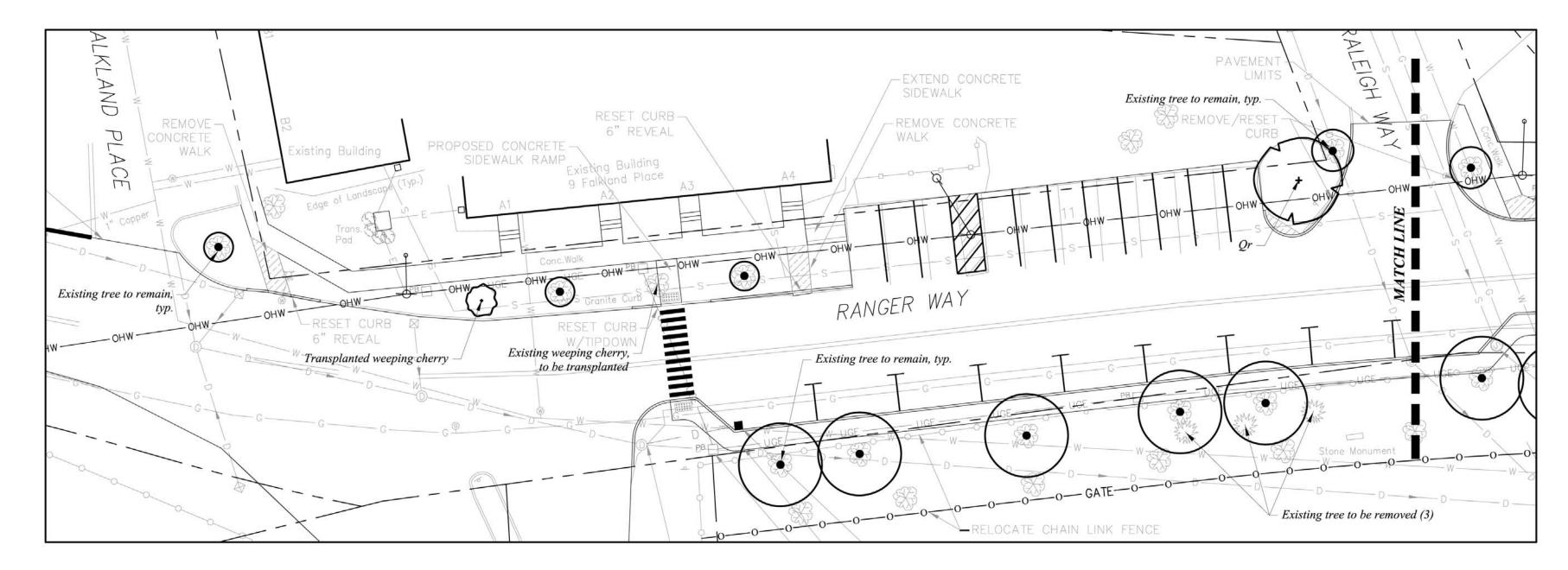
JUNE 2013

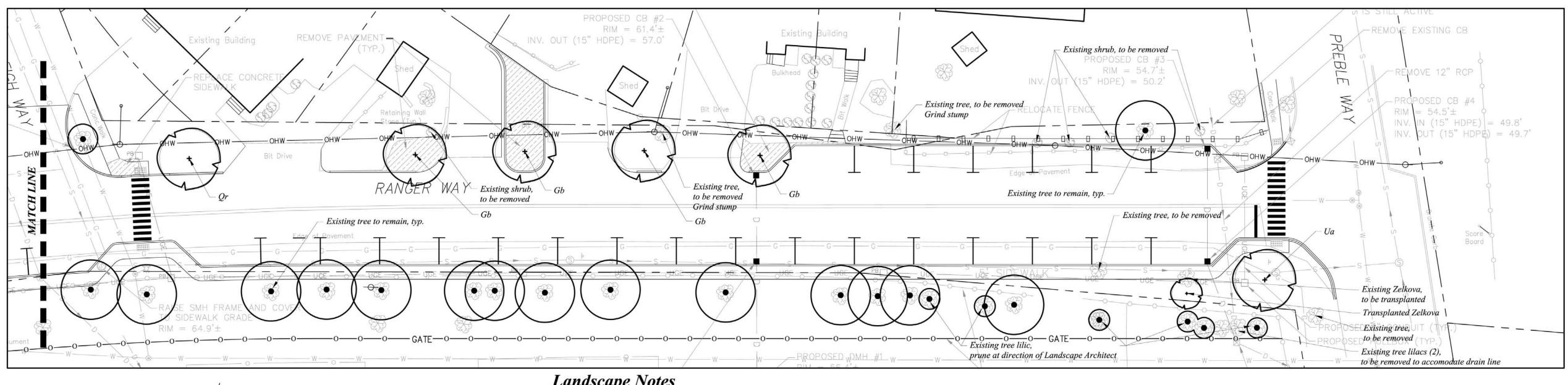
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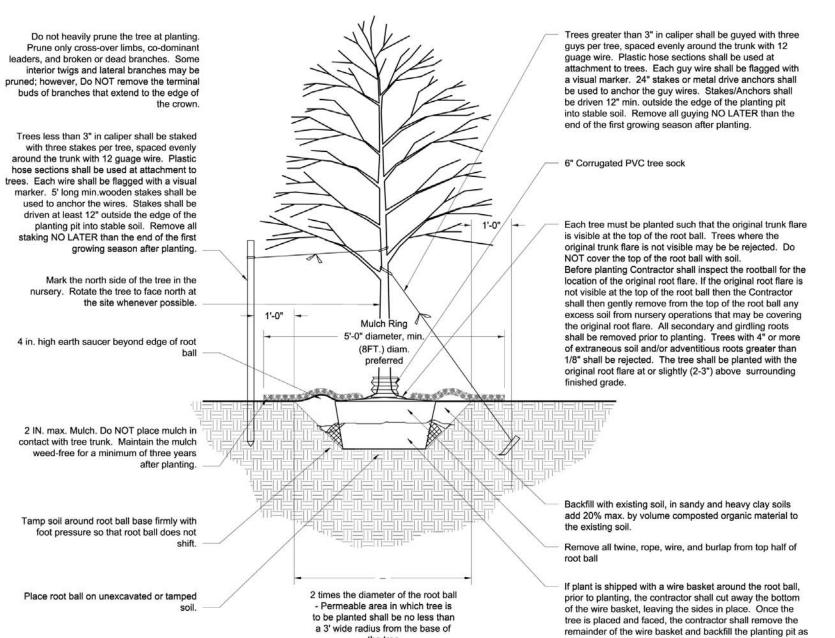












Tree Planting Detail, Typ.

### Landscape Notes

- 2. The contractor shall follow best management practices during construction and shall take all means necessary to stabilize and
- Erosion Control shall be in place prior to construction.
   Erosion Control to consist of Hay Bales and Erosion Control Fabric shall be staked in place between the work and Water
- 5. The Contractor shall verify layout and grades and inform the Landscape Architect or Client's Representative of any
- 6. It is the contractor's responsibility to verify drawings provided are to the correct scale prior to any bid, estimate or installation. A graphic scale bar has been provided on each sheet for this purpose. If it is determined that the scale of the drawing is
- 7. Trees to Remain within the construction zone shall be protected from damage for the duration of the project by snow fence or disturb roots. In order to protect the integrity of the roots, branches, trunk and bark of the tree(s) no vehicles or construction equipment shall drive or park in or on the area within the drip line(s) of the tree(s). Do not store any refuse or construction
- materials or portalets within the tree protection area.
- 9. The Contractor shall verify exact location and elevation of all utilities with the respective utility owners prior to construction. Call
- results and recommendations from the testing facility along with soil amendment plans as necessary for the proposed plantings to thrive. All loam to be used on site shall be amended as approved by the Landscape Architect prior to placement.

  12. Contractor shall notify landscape architect or owner's representative immediately if at any point during demolition or
- contractor is aware of a potential issue, and does not bring it to the attention of the landscape architect or owner's representative immediately, they may be responsible for the labor and materials associated with correcting the problem 13. The Contractor shall furnish and plant all plants shown on the drawings and listed thereon. All plants shall be nursery-grown under climatic conditions similar to those in the locality of the project. Plants shall conform to the botanical names and standards of size, culture, and quality for the highest grades and standards as adopted by the American Association of
- shall not affect the right of inspection and rejection during or after the progress of the work. The Owner reserves the right to inspect and/or select all trees at the place of growth and reserves the right to approve a representative sample of each type of shrub, herbaceous perennial, annual, and ground cover at the place of growth. Such sample will serve as a minimum standard for all plants of the same species used in this work.
- 20. Trees, ground cover, and shrub beds shall be mulched to a depth of 2" with one-year-old, well-composted, shredded native bark not longer than 4" in length and 1/2" in width, free of woodchips and sawdust. Mulch for ferns and herbaceous perennials shall be no longer than 1" in length. Trees in lawn areas shall be mulched in a 5' diameter min. saucer. Color of mulch shall be
- 22. In no case shall mulch touch the stem of a plant nor shall mulch ever be more than 3" thick total (including previously applied
- height of 6' to allow clear and safe passage of vehicles and pedestrians under tree canopy.

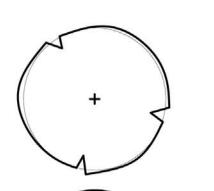
  24. Snow shall be stored a minimum of 5' from shrubs and trunks of trees. 25. Landscape Architect is not responsible for the means and methods of the contractor

#### 1. Design is based on drawings by CLD Consulting Engineers dated 4/15/2013 and may require adjustment due to actual field

- protect the site from erosion.
- bodies, Wetlands and/or drainage ways prior to any construction.
- discrepancies or changes in layout and/or grade relationships prior to construction.
- ncorrect, the landscape architect will provide a set of drawings at the correct scale, at the request of the contractor. other suitable means of protection to be approved by Landscape Architect or Client's Representative. Snow fence shall be located at the drip line at a minimum and shall include any and all surface roots. Do not fill or mulch on the trunk flare. Do not
- 8. Location, support, protection, and restoration of all existing utilities and appurtenances shall be the responsibility of the Contractor.
- DIGSAFE at 1-888-344-7233.
- 10. The Contractor shall procure any required permits prior to construction.11. Prior to any landscape construction activities Contractor shall test all existing loam and loam from off-site intended to be used for lawns and plant beds using a thorough sampling throughout the supply. Soil testing shall indicate levels of pH, nitrates, macro and micro nutrients, texture, soluble salts, and organic matter. Contractor shall provide Landscape Architect with test
- construction a site condition is discovered which may negatively impact the completed project. This includes, but is not limited to, unforeseen drainage problems, unknown subsurface conditions, and discrepancies between the plan and the site. If a
- Nurserymen, Inc. in the American Standard of Nursery Stock, American Standards Institute, Inc. 230 Southern Building, 14. A complete list of plants, including a schedule of sizes, quantities, and other requirements is shown on the drawings. In the event that quantity discrepancies or material omissions occur in the plant materials list, the planting plans shall govern.
- 15. All plants shall be legibly tagged with proper botanical name.16. The Contractor shall guarantee all plants for not less than one year from time of acceptance. 17. Owner or Owner's Representative will inspect plants upon delivery for conformity to Specification requirements. Such approval
- 18. No substitutions of plants may be made without prior approval of the Owner or the Owner's Representative for any reason. 19. All disturbed areas will be dressed with 6" of topsoil and planted as noted on the plans or seeded except plant beds. Plant beds shall be prepared to a depth of 12" with 75% loam and 25% compost.
- 21. Owner is solely responsible for maintaining vehicular and pedestrian vision lines pertaining to vegetation growth. 23. Secondary lateral branches of deciduous trees overhanging vehicular and pedestrian travel ways shall be pruned up to a

# Plant List

Symbol	Botanical Name	Common Name	Quantity	Size	Comments
Gb	Ginkgo biloba 'Autumn Gold'	Ginkgo	4	3-3.5" cal	B&B
Qr	Quercus robur x Quercus alba 'CrimSchmidt'	Oak	2	3-3.5" cal	B&B
Ua	Ulmus americana 'Princeton'	Princeton American Elm	1	3-3.5" cal	B&B



PROPOSED TREE





103 Kent Place Newmarket, NH 03857

Tel 603.659.5949

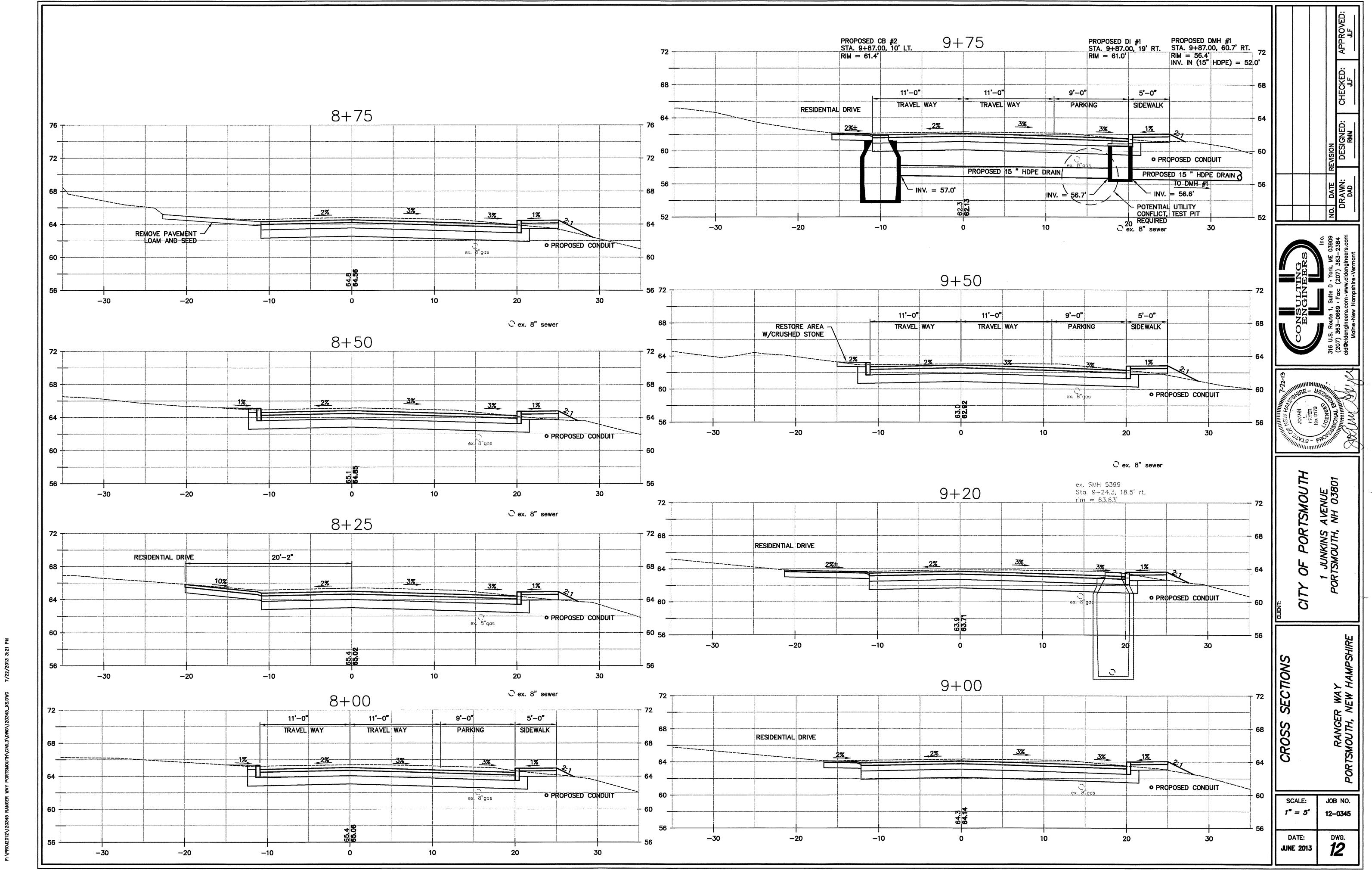
Fax: 603.659.5939

1'' = 20'DATE: MAY 2013

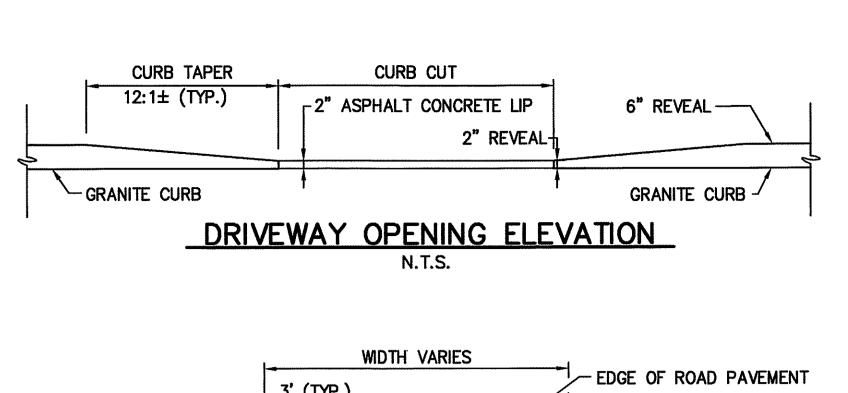
JOB NO. 12-0345

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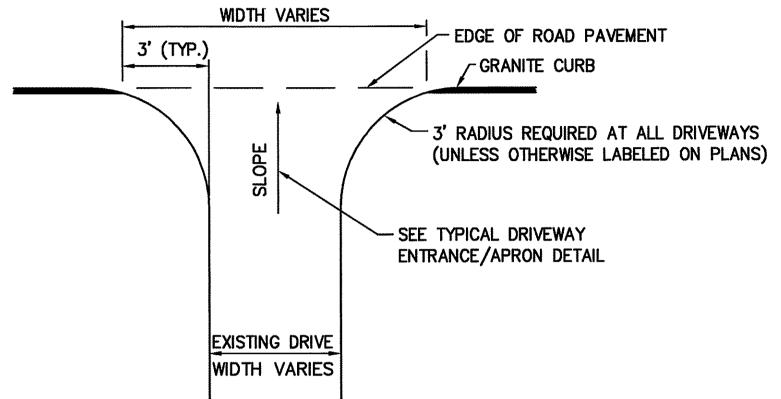
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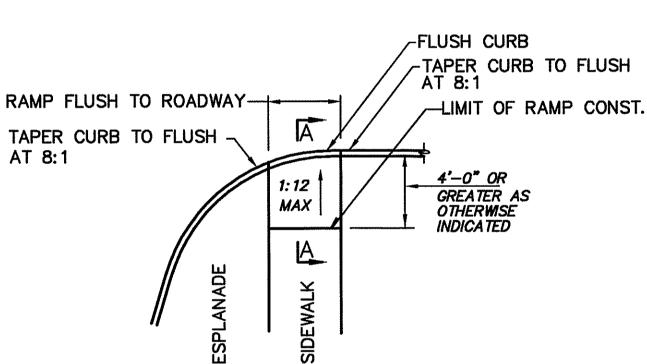


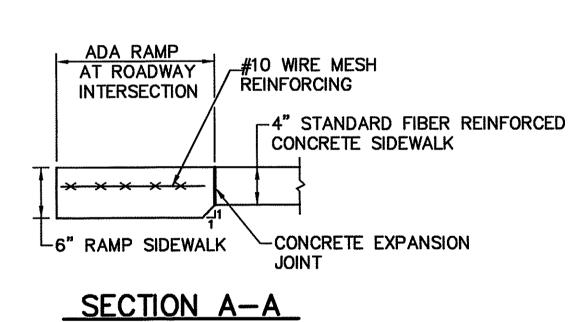
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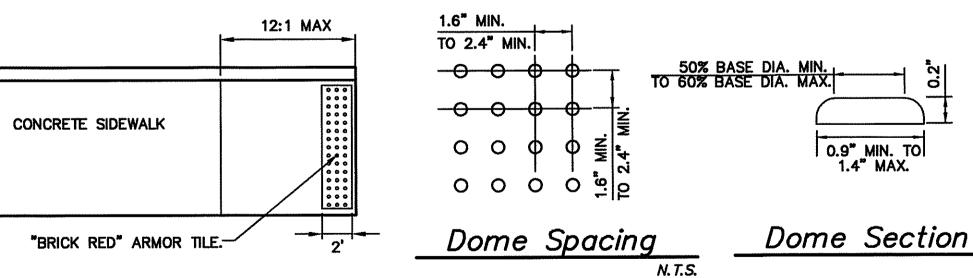
DRIVEWAY OPENING DETAIL
N.T.S.











1. THE ROWS OF DOMES SHALL BE ALIGNED TO BE PERPENDICULAR OR RADIAL TO THE GRADE BREAK BETWEEN THE RAMP LANDING OR CURB RAMP AND THE STREET. DETECTABLE WARNING PANEL LOCATION, LENGTH AND ORIENTATION SHALL BE REVIEWED WITH ENGINEER IN THE FIELD PRIOR TO ORDERING MATERIALS.

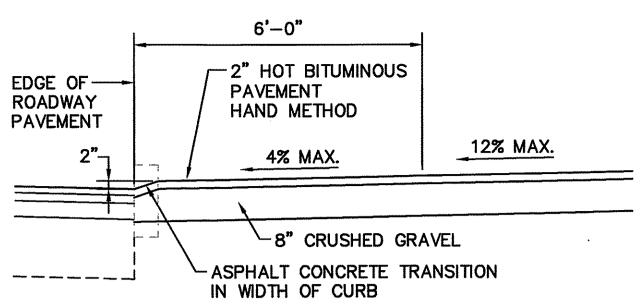
2. THE PAVER UNITS SHALL BE ARMOR TILE, AS MANUFACTURED AND SUPPLIED BY ENGINEERED PLASTIC, INC.

3. "BRICK RED" COLORED TILES SHALL BE USED.

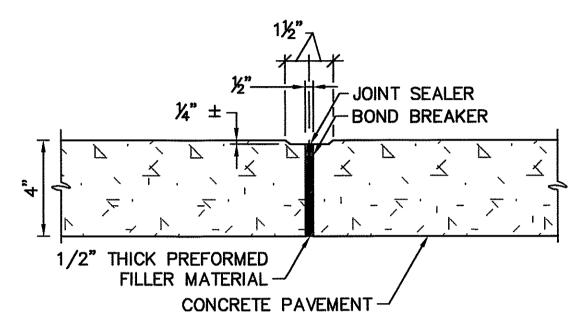
4. DETECTABLE WARNING PAVERS SHALL BE INSTALLED AT SIDEWALK RAMPS THAT CROSS A VEHICULAR WAY, EXCLUDING RESIDENTIAL DRIVEWAY CROSSINGS.

5. PAVERS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND REQUIREMENTS.
6. PROVIDE A 3" CONCRETE BUFFER BETWEEN THE EDGES OF CONCRETE AND GRANITE CURB TO THE EDGE OF THE

# DOME AND DETECTABLE WARNING DETAILS

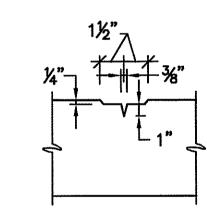


## TYPICAL DRIVEWAY ENTRANCE/APRON SCALE: 1/2" = 1'-0"



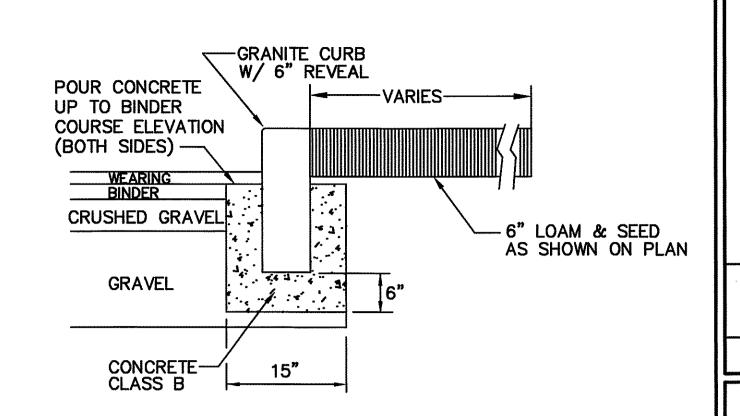
**EXPANSION JOINT NOTE:** 1. TOOLED JOINT SURFACES SHALL BE SMOOTH AND AT A CONSTANT DEPTH.

#### TYPICAL EXPANSION JOINT DETAIL -CONCRETE SIDEWALK (25 FOOT SPACING) N.T.S.

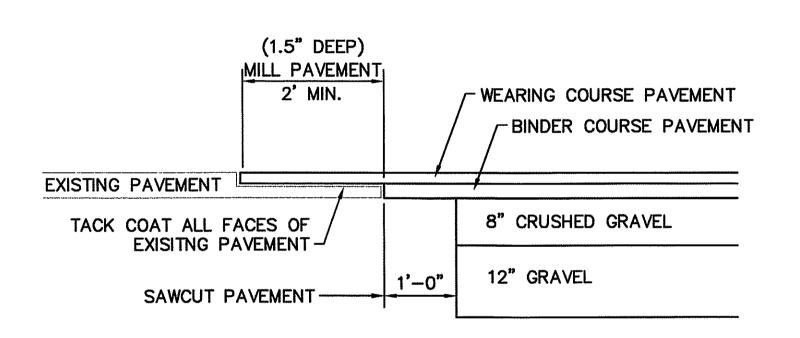


# CONTROL JOINT DETAIL -CONCRETE SIDEWALK

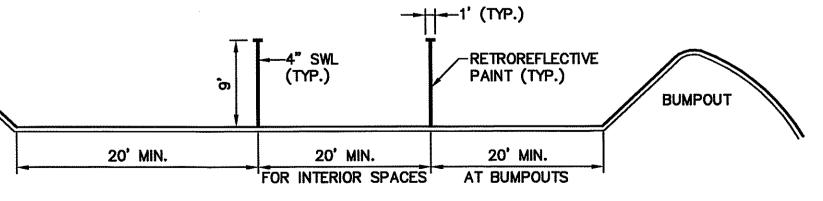
(5 FOOT SPACING) N.T.S.



GRANITE CURB DETAIL



PAVEMENT MATCH DETAIL



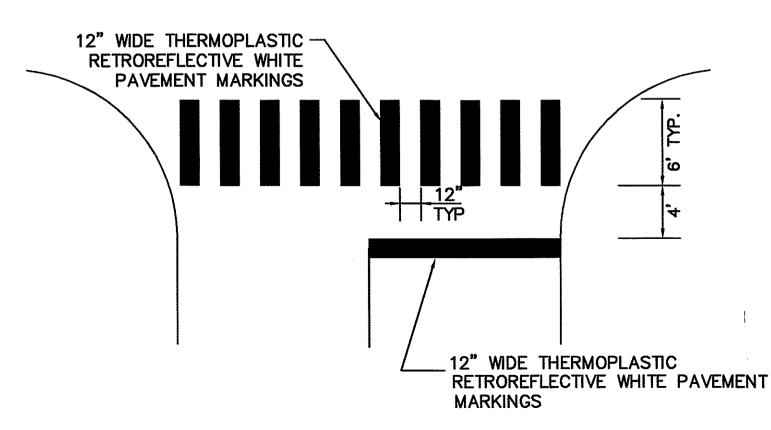
# PAVEMENT MARKING DETAIL PARALLEL PARKING

NOTES:

FROM THAT SPECIFIED.

1. SEE GENERAL PLAN FOR PARKING SPACE LAYOUT. 2. WIDTH OF LINES SHALL VARY NO MORE THAN 1/4"

3. THE WET FILM THICKNESS SHALL BE A MINIMUM OF 15 MILS THROUGHOUT THE ENTIRE WIDTH AND LENGTH OF THE LINE SPECIFIED. OVERSPRAY SHALL BE KEPT TO AN ABSOLUTE MINIMUM.



CROSS-WALK & STOP BAR MARKING DETAIL

POR 9 JOB NO. SCALE: AS NOTED 12-0345

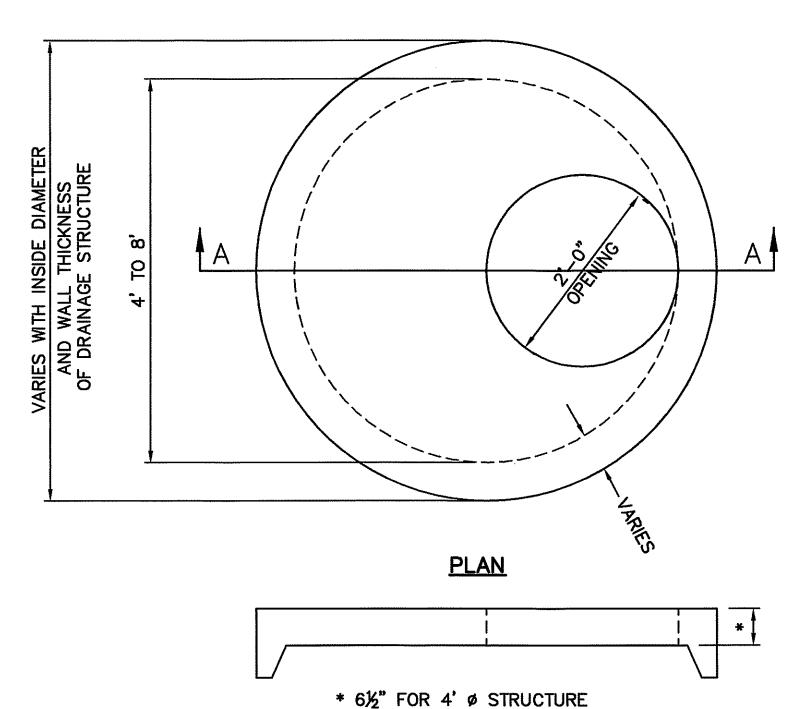
JUNE 2013

PRECAST REINFORCED CATCH BASIN/DRAINAGE MANHOLE

LOAM AREA 2.0' (MIN.) PAVED AREA LOAM & SEED CRUSHED GRAVEL BANK RUN GRAVEL SUITABLE BACKFILL COMPACTED AS SPECIFIED ROADWAY BACKFILL SHALL CONFORM TO STANDARD SPEC'S SAND CUSHION CRUSHED STONE OR SCREENED GRAVEL BEDDING FOR FULL WIDTH OF THE TRENCH UP TO SPRING LINE OF PIPE. **UNDISTURBED** SOIL -- 6" BELOW PIPE IN EARTH -- 12" BELOW PIPE IN LEDGE 3.0' MAX. FOR PIPE DIAMETER UP TO 15" OVER 15", W = DIA. + 2'

> TYPICAL TRENCH DETAIL N.T.S.

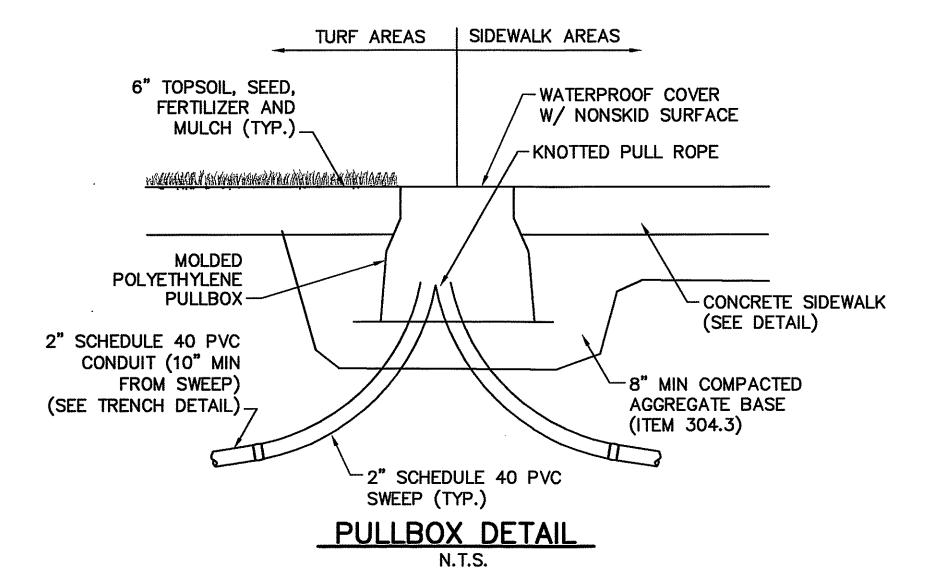
NOTE: AT RESIDENT ENGINEER'S DISCRETION, SLAB TOPS MAY BE REQUESTED FOR CATCH BASINS.

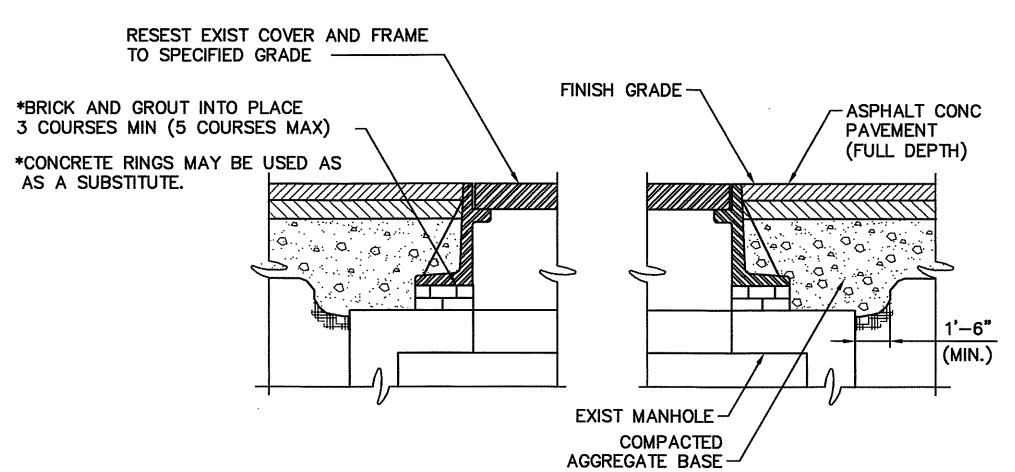


SECTION A-A

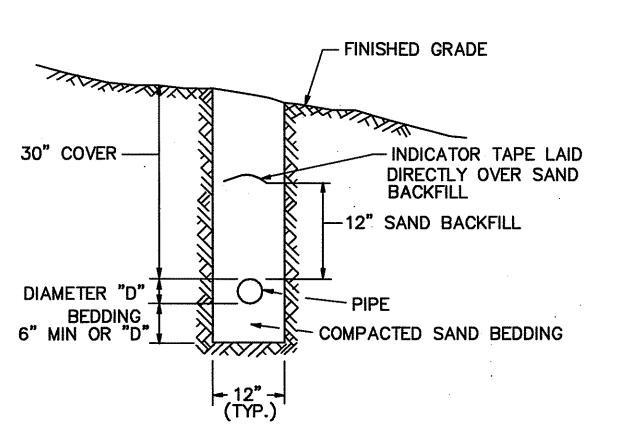
8" FOR >4' Ø STRUCTURES

FLAT SLAB TOP



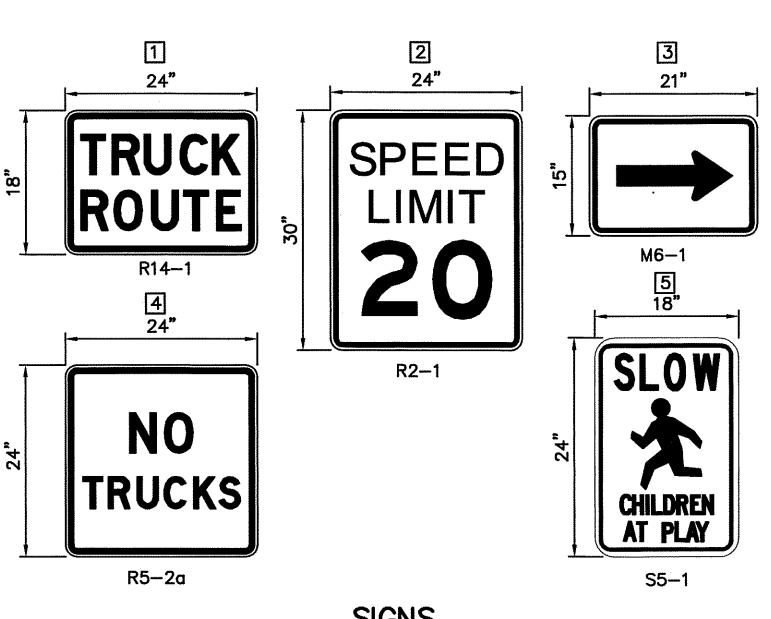


RESET EXISTING MANHOLE RIM



NOTE: BACKFILL ABOVE CONDUIT SHALL BE SUITABLE MATERIAL COMPACTED IN 12" LIFTS.

ELECTRICAL CONDUIT INSTALLATION TRENCH DETAIL N.T.S.



SIGNS

N.T.S.

SCALE: JOB NO. AS NOTED 12-0345 JUNE 2013

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