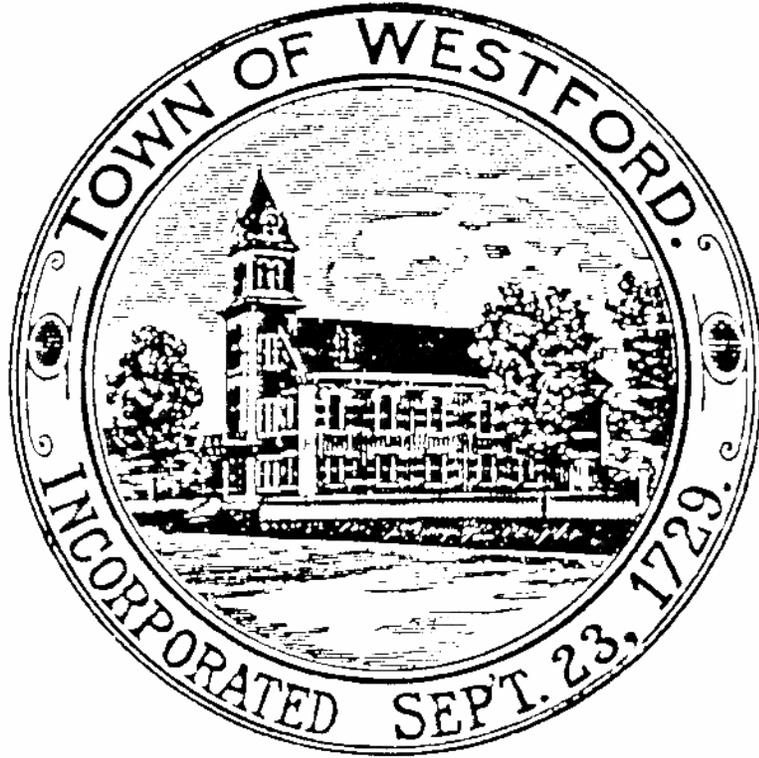


# TOWN OF WESTFORD



## TOWN CENTER PEDESTRIAN SAFETY IMPROVEMENTS

BID AND CONTRACT DOCUMENTS

Name of Proposer \_\_\_\_\_

# **TOWN OF WESTFORD, MASSACHUSETTS**

## **INDEX SHEET**

### **TOWN CENTER PEDESTRIAN SAFETY IMPROVEMENTS**

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## INVITATION TO BID

Sealed Bids for **TOWN CENTER PEDESTRIAN SAFETY IMPROVEMENTS** will be received by the Town of Westford, at the office of the Town Engineer, first floor of the Highway Garage, 28 North Street, Westford MA 01886, acting through the office of Town Manager on or before:

**Thursday, August 4th 2011 at 1:30 P.M.**

and at the time indicated will be publicly opened and read aloud. Sealed envelopes containing bids must be clearly marked 'Sealed Bid – TOWN CENTER PEDESTRIAN SAFETY IMPROVEMENTS'.

The work for this project includes, but is not limited to, handicap accessible ramps (4), new walkway through Town Common (pavers), signs, install new paint markings and remove existing pavement markings by grinding asphalt surface, and other miscellaneous work.

Plans and specifications may be examined and/or obtained **on or after Thursday, July 21, 2011** at the Office of the Town Engineer, first floor of the Highway Garage; 28 North Street, Westford, MA from 8:00 A.M. to 3:30 P.M., Monday through Friday, except for holidays. Plans and specifications may also be downloaded free of charge at [www.westfordma.gov/rfp](http://www.westfordma.gov/rfp). A non-refundable \$10.00 mailing and handling fee will be charged to those requesting that the Contract Documents be mailed to them. There is no cost or deposit required for picking up the specifications.

The successful bidders shall conform to the Classifications and Minimum Wage Rates, when applicable, as determined by the Commissioner of Labor and Industries for the Commonwealth of Massachusetts. Bidders shall conform to all specifications and shall use the bid sheets provided for submittal. Instructions for filing Bids are contained in the Contract Documents included with the Specifications. The Town reserves the right to accept or reject any or all bids or portions thereof if deemed to be the best interest of the Town. The Town of Westford is the awarding authority.

All proposals are subject to Commonwealth of Massachusetts Department of Labor and Industry Rates, EEOC Regulations, OSHA regulations, and MGL Chapter 30B, Chapter 30 39M, and Chapter 149, Section 44A, where applicable. MBE and WBE contractors are encouraged to bid.

Jodi Ross  
Town Manager

# TOWN OF WESTFORD, MASSACHUSETTS

## INSTRUCTIONS TO BIDDERS

### 1. Receipt of Bids

The Town may consider informal any bid not prepared and submitted in accordance with the provisions hereof and may waive any informalities in or reject any and all bids. Any bid may be withdrawn prior to the above-mentioned time for the opening of bids or authorized postponement thereof. Any bid received after the time and date specified shall not be considered. No bidder may withdraw his/her bid for a period of 30 days, excluding Saturdays, Sundays, and legal holidays after actual date of the opening thereof.

### 2. Preparation of Bid

Each bid shall be submitted on the forms attached to these documents. The bid forms shall not be removed and submitted separately from the other documents. All blank spaces for bid prices must be filled in with the **Lump Sum** for which the proposal is made. All entries in the entire proposal must be made clearly, and prices must be written in both words and figures in the spaces provided.

### 3. Bid Submission

Each bid must be submitted in a sealed envelope bearing on the outside the name of the bidder, his/her address, and the name of the project for which the bid is submitted. If forwarded by mail, the sealed envelope containing the bid must be enclosed in another envelope addressed as follows:

Bid Documents  
Town Engineer  
TOWN CENTER PEDESTRIAN SAFETY IMPROVEMENTS  
28 North Street  
Westford, MA 01886

The Owner will receive sealed bids until the time, and at the location designated in the Invitation to Bid. Bids received after this time will not be accepted. All interested parties are invited to attend; bids will be opened publicly and read aloud.

### 4. Bid Security

Not required for this contract.

### 5. Time of Completion

The bidder must agree to commence work within the time specified in the contract documents, and to fully complete the project within 30 calendar days from the date of the Notice to Proceed.

### 6. Performance and Labor Material Bonds

It is the responsibility of the Contractor to obtain a Street Opening Permit from the Westford Highway Department, including the establishment of a bond as determined by the Highway Superintendent. A copy of the Street Opening Permit Application is contained herein.

## **7. Laws and Regulations**

The bidder's attention is directed to the fact that all applicable State laws, municipal ordinances, and the rules and regulations of all authorities having jurisdiction over construction of the project shall apply to the contract throughout, and they will be deemed to be included in the contract the same as though herein written out in full.

## **8. Withdrawal of Bids**

Except as hereinafter expressly provided, a bidder may not withdraw his bid until after thirty, (30) consecutive calendar days after the actual date of opening of Bids.

Upon proper written request and identification, Bids may be withdrawn only as follows:

1. At any time prior to the designated time for the opening of Bids.
2. Death or serious injury of a principal.
3. With the approval of the Town.
4. At any time after the expiration of the period during which withdrawal is prohibited provided the bid has not been accepted by the Town.

## **9. Execution of Contract**

The party to whom the contract is awarded will be required to execute the contract within five days, excluding Saturdays, Sundays, and legal holidays, of the date of the mailing of the notice to the bidder according to the address given by him, that the contract is ready for execution.

## **10. Obligation of Bidder**

At the time of the opening of bids, each bidder will be presumed to have inspected the site and to have read and to be thoroughly familiar with the drawings and contract documents, including all referenced documents. The failure or omission of any bidder to receive or examine any form, instrument, or document shall in no way relieve any bidder from the obligation in respect to his bid.

## **11. Omissions, Discrepancies, Interpretations and Addenda**

Should a bidder find discrepancies in, or omissions from, the drawings or contract documents, or should he/she have questions as to the interpretation of the plans or contract documents he/she shall submit such in writing to the Town Engineer at least five days before the date herein set for the opening of bids. An interpretation will be mailed by certified mail to prospective bidders at the addresses given by them on or about two days before the opening of bids. Signed copies of all addenda shall be included with the bid. Omission of the signed addendum shall be cause for rejections of the bid.

## **12. Record of Address**

Prospective bidders shall at the time the plans and specifications are secured, place on file with the Town Engineer their address, and are required to make any changes necessary to insure that the record is accurate, complete, and up to date.

## **13. Massachusetts Sales and Use Tax**

Materials purchased for permanent installation in the work will be exempt from the Massachusetts Sales and Use tax. Each bidder shall take this exemption into account in calculating his/her bid for the work.

**14. State Tax Affidavit**

Prospective bidders are required to certify that all state tax returns have been filed and all state taxes have been paid in order to be eligible to enter into a contract with the Town on this project. The form in section 0500 is to be used for this purpose and is to be completed and returned as part of the bid and proposal.

**15. Minimum Wage Rates**

Prevailing rates for wages for work performed under this Contract will be as predetermined by the Commissioner of Labor and Industries of the Commonwealth of Massachusetts in accordance with the provisions of Sections 26 to 27D, inclusive, of c.149 of M.G.L. A schedule of the prevailing wages is included in Minimum Wage Rates Section 0300.

**16. Sub-bids**

No sub bids will be sought in connection with this Contract.

**17. Bid Deposit**

No bid deposit required.

**18. Insurance**

The Contractor shall purchase and maintain such insurance as will protect it from claims which arise out of or result from the Contractor’s operations under the contract, whether such operations be by itself or by any subcontractor or anyone directly or indirectly employed by any of them. The insurance required shall be with a company authorized to do business in the Commonwealth of Massachusetts and satisfactory to the Town, and shall be written for limits of the liability satisfactory to the Town, and shall include insurance in the following amounts:

PROFESSIONAL LIABILITY- \$1,000,000 MINIMUM  
UMBRELLA - \$1,000,000 MINIMUM  
WORKER’S COMPENSATION - per statutory requirements

Other if Automobile Liability insurance: \$ each person  
Applicable: \$ each accident  
Property: \$

Certificates of Insurance acceptable to the Town, naming the Town of Westford as an additional insured, shall be submitted to the Town simultaneously with the execution of the Contract.

**END OF INSTRUCTIONS**

# **TOWN OF WESTFORD PREVAILING WAGE RATES**

A schedule of minimum wage rates issued for this work by the Commissioner of the EXECUTIVE OFFICE OF LABOR AND WORKFORCE DEVELOPMENT, DEPARTMENT OF LABOR STANDARDS of Massachusetts, under the provisions of the Massachusetts General Laws, Chapter 149, Sections 26 to 27H is provided herein.



THE COMMONWEALTH OF MASSACHUSETTS  
EXECUTIVE OFFICE OF LABOR AND WORKFORCE DEVELOPMENT  
DEPARTMENT OF LABOR STANDARDS



DEVAL L. PATRICK  
Governor

As determined by the Commissioner under the provisions of the  
Massachusetts General Laws, Chapter 149, Sections 26 to 27H

JOANNE F. GOLDSTEIN  
Secretary

TIMOTHY P. MURRAY  
Lt. Governor

HEATHER E. ROWE  
Director

**Prevailing Wage Rates**

**Awarding Authority:** Town of Westford

**Contract Number:**

**City/Town:** WESTFORD

**Description of Work:** Installation of two new crosswalks with curb ramps along with a new sidewalk and other miscellaneous work.

**Job Location:** Main Street & Lincoln Street

Classification	Effective Dates and Total Rates					
<b>Construction</b>						
(2 AXLE) DRIVER - EQUIPMENT	06/01/2011	\$44.670	08/01/2011	\$45.020	12/01/2011	\$45.680
	06/01/2012	\$45.980	08/01/2012	\$46.330	12/01/2012	\$47.360
(3 AXLE) DRIVER - EQUIPMENT	06/01/2011	\$44.740	08/01/2011	\$45.090	12/01/2011	\$45.750
	06/01/2012	\$46.050	08/01/2012	\$46.400	12/01/2012	\$47.430
(4 & 5 AXLE) DRIVER - EQUIPMENT	06/01/2011	\$44.860	08/01/2011	\$45.210	12/01/2011	\$45.870
	06/01/2012	\$46.170	08/01/2012	\$46.520	12/01/2012	\$47.710
ADS/SUBMERSIBLE PILOT	08/01/2010	\$103.680	08/01/2011	\$107.800		
AIR TRACK OPERATOR	06/01/2011	\$47.500	12/01/2011	\$48.750		
ASBESTOS REMOVER - PIPE / MECH. EQUIPT.	12/01/2009	\$40.250				
ASPHALT RAKER	06/01/2011	\$47.000	12/01/2011	\$48.250		
ASPHALT/CONCRETE/CRUSHER PLANT-ON SITE	06/01/2011	\$61.290	12/01/2011	\$61.920	06/01/2012	\$62.490
	12/01/2012	\$63.110	06/01/2013	\$63.890	12/01/2013	\$64.670
BACKHOE/FRONT-END LOADER	06/01/2011	\$61.290	12/01/2011	\$61.920	06/01/2012	\$62.490
	12/01/2012	\$63.110	06/01/2013	\$63.890	12/01/2013	\$64.670
BARCO-TYPE JUMPING TAMPER	06/01/2011	\$47.000	12/01/2011	\$48.250		
BLOCK PAVER, RAMMER / CURB SETTER	06/01/2011	\$47.500	12/01/2011	\$48.750		
BOILER MAKER	01/01/2010	\$55.850				
APPRENTICE: BOILERMAKER - Local 29						
Ratio Step	1	2	3	4	5	6
1:5 %	65.00	65.00	70.00	75.00	80.00	85.00
	90.00	95.00				
Apprentice wages shall be no less than the following:						
Step	1	2	3	4	5	6
	\$42.66	\$42.66	\$44.54	\$46.43	\$48.31	\$50.20
	\$52.08	\$53.97				
BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING)	03/01/2011	\$68.940	08/01/2011	\$68.940	09/01/2011	\$70.290
	03/01/2012	\$71.290				
APPRENTICE: BRICK/PLASTER/CEMENT MASON - Local 1 Lowell						
Ratio Step	1	2	3	4	5	6
1:5 %	50.00	60.00	70.00	80.00	90.00	95.00
Apprentice wages shall be no less than the following:						
Step	1	2	3	4	5	6
	\$47.01	\$51.40	\$55.78	\$60.17	\$64.55	\$68.94
	\$70.290					
BULLDOZER/GRADER/SCRAPER	06/01/2011	\$60.940	12/01/2011	\$61.560	06/01/2012	\$62.120
	12/01/2012	\$62.740	06/01/2013	\$63.510	12/01/2013	\$64.290
CAISSON & UNDERPINNING BOTTOM MAN	06/01/2011	\$51.250	12/01/2011	\$52.500		
CAISSON & UNDERPINNING LABORER	06/01/2011	\$50.100	12/01/2011	\$51.350		
CAISSON & UNDERPINNING TOP MAN	06/01/2011	\$50.100	12/01/2011	\$51.350		
CARBIDE CORE DRILL OPERATOR	06/01/2011	\$47.000	12/01/2011	\$48.250		
CARPENTER	03/01/2011	\$56.230	09/01/2011	\$57.360	03/01/2012	\$58.480

**This wage schedule must be posted at the work site in accordance with M.G.L. ch. 149, sec. 27**

**Failure of the employer to pay "prevailing wage rates," which are the minimum wage rates listed above, on public works projects is a violation of M.G.L. ch. 149, sec. 27. Employees not receiving such rates should report the violation to the Office of Fair Labor and Business Practices, 100 Cambridge Street, Boston, MA 02108; Tel: 617-727-3465.**



THE COMMONWEALTH OF MASSACHUSETTS  
EXECUTIVE OFFICE OF LABOR AND WORKFORCE DEVELOPMENT  
DEPARTMENT OF LABOR STANDARDS



DEVAL L. PATRICK  
Governor

As determined by the Commissioner under the provisions of the  
Massachusetts General Laws, Chapter 149, Sections 26 to 27H

JOANNE F. GOLDSTEIN  
Secretary

TIMOTHY P. MURRAY  
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HEATHER E. ROWE  
Director

**Prevailing Wage Rates**

**Awarding Authority:** Town of Westford

**Contract Number:**

**City/Town:** WESTFORD

**Description of Work:** Installation of two new crosswalks with curb ramps along with a new sidewalk and other miscellaneous work.

**Job Location:** Main Street & Lincoln Street

**Classification**

**Effective Dates and Total Rates**

Classification	Ratio	Step	1	2	3	4	5	6	7	8
APPRENTICE: CARPENTER - Zone 2 Eastern MA	1:5	%	50.00	60.00	70.00	75.00	80.00	80.00	90.00	90.00
Apprentice wages shall be no less than the following: Step 1\$26.27/2\$29.47/3\$41.91/4\$43.51/5\$46.68/6\$46.68/7\$51.46/8\$50.87										
CEMENT MASONRY/PLASTERING						03/01/2011	\$65.360	08/01/2011	\$65.360	09/01/2011 \$65.870
						03/01/2012	\$66.250			
CHAIN SAW OPERATOR						06/01/2011	\$47.000	12/01/2011	\$48.250	
CLAM SHELLS/SLURRY BUCKETS/HEADING MACHINES						06/01/2011	\$62.290	12/01/2011	\$62.920	06/01/2012 \$63.490
						12/01/2012	\$64.110	06/01/2013	\$64.890	12/01/2013 \$65.670
COMPRESSOR OPERATOR						06/01/2011	\$49.910	12/01/2011	\$50.350	06/01/2012 \$50.740
						12/01/2012	\$51.190	06/01/2013	\$51.740	12/01/2013 \$52.290
DELEADER (BRIDGE)						07/01/2011	\$65.410	01/01/2012	\$66.410	07/01/2012 \$67.410
						01/01/2013	\$68.410			
APPRENTICE: PAINTER Local 35 - BRIDGES/TANKS	1:1	%	50.00	55.00	60.00	65.00	70.00	75.00	80.00	90.00
Apprentice wages shall be no less than the following: Steps are 750 hrs. Step 1\$29.31/2\$34.57/3\$37.00/4\$39.43/5\$50.35/6\$52.75/7\$55.18/8\$60.05										
DEMO: ADZEMAN						06/01/2011	\$50.100	12/01/2011	\$51.350	
DEMO: BACKHOE/LOADER/HAMMER OPERATOR						06/01/2011	\$51.100	12/01/2011	\$52.350	
APPRENTICE: LABORER Demo Backhoe/Loader/Hammer Operator	1:5	%	60.00	70.00	80.00	90.00				
Apprentice wages shall be no less than the following: Step 1\$38.28/2\$41.49/3\$44.69/4\$47.90										
DEMO: BURNERS						06/01/2011	\$50.850	12/01/2011	\$52.100	
APPRENTICE: LABORER Demo Burners	1:5	%	60.00	70.00	80.00	90.00				
Apprentice Wages shall be no less than the following: Step 1\$38.13/2\$41.31/3\$44.49/4\$47.67										
DEMO: CONCRETE CUTTER/SAWYER						06/01/2011	\$51.100	12/01/2011	\$52.350	
DEMO: JACKHAMMER OPERATOR						06/01/2011	\$50.850	12/01/2011	\$52.100	
DEMO: WRECKING LABORER						06/01/2011	\$50.100	12/01/2011	\$51.350	

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**Prevailing Wage Rates**

**Awarding Authority:** Town of Westford

**Contract Number:**

**City/Town:** WESTFORD

**Description of Work:** Installation of two new crosswalks with curb ramps along with a new sidewalk and other miscellaneous work.

**Job Location:** Main Street & Lincoln Street

**Classification**

**Effective Dates and Total Rates**

APPRENTICE: LABORER Demo Wrecking Laborer											
Ratio	Step	1	2	3	4						
1:5	%	60.00	70.00	80.00	90.00						
Apprentice wages shall be no less than the following:											
Step 1\$37.68/2\$40.79/3\$43.89/4\$47.00											
DIRECTIONAL DRILL MACHINE OPERATOR						06/01/2011	\$60.940	12/01/2011	\$61.560	06/01/2012	\$62.120
						12/01/2012	\$62.740	06/01/2013	\$63.510	12/01/2013	\$64.290
DIVER						08/01/2010	\$77.520	08/01/2011	\$80.270		
DIVER TENDER						08/01/2010	\$62.570	08/01/2011	\$65.320		
DIVER TENDER (EFFLUENT)						08/01/2010	\$81.250	08/01/2011	\$85.380		
DIVER/SLURRY (EFFLUENT)						08/01/2010	\$103.680	08/01/2011	\$107.800		
ELECTRICIAN						03/01/2011	\$68.290				
APPRENTICE: ELECTRICIAN - Local 103											
Ratio	Step	1	2	3	4	5	6	7	8	9	10
2:3***	%	40.00	40.00	45.00	45.00	50.00	55.00	60.00	65.00	70.00	75.00
Apprentice wages shall be no less than the following Steps:											
App Prior 1/1/03; 30/35/40/45/50/55/65/70/75/80											
1\$37.38/2\$37.38/3\$44.81/4\$44.81/5\$46.95/6\$49.08/7\$51.22/8\$53.35/9\$55.49/10\$57.62											
ELEVATOR CONSTRUCTOR						01/01/2011	\$66.690	01/01/2012	\$68.190		
APPRENTICE: ELEVATOR CONSTRUCTOR - Local 4											
Ratio	Step	1	2	3	4	5					
1:1	%	50.00	55.00	65.00	70.00	80.00					
Apprentice rates shall be no less than the following:											
Steps 1-2 are 6 mos.; Steps 3-5 are 1 year											
Step 1\$34.26/2\$43.76/3\$48.86/4\$51.41/5\$56.50											
ELEVATOR CONSTRUCTOR HELPER						01/01/2011	\$52.830	01/01/2012	\$54.330		
FENCE & GUARD RAIL ERECTOR						06/01/2011	\$47.000	12/01/2011	\$48.250		
FIELD ENG. - INST. PERSON (BLDG, SITE, HVY CONST)						05/01/2011	\$59.380				
FIELD ENG. - ROD PERSON (BLDG, SITE, HVY CONST)						05/01/2011	\$42.930				
FIELD ENG.-CHIEF OF PARTY (BLDG, SITE, HVY CONST)						05/01/2011	\$60.770				
FIRE ALARM INSTALLER						03/01/2011	\$68.290				
FIRE ALARM REPAIR / MAINTENANCE / COMMISSIONING						03/01/2011	\$56.300				
FIREMAN (ASST. ENGINEER)						06/01/2011	\$55.100	12/01/2011	\$55.630	06/01/2012	\$56.100
						12/01/2012	\$56.630	06/01/2013	\$57.280	12/01/2013	\$57.940
FLAGGER & SIGNALER						06/01/2011	\$38.650	12/01/2011	\$38.650		
FLOORCOVERER						03/01/2011	\$61.110	09/01/2011	\$62.360	03/01/2012	\$63.610

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**Prevailing Wage Rates**

**Awarding Authority:** Town of Westford

**Contract Number:**

**City/Town:** WESTFORD

**Description of Work:** Installation of two new crosswalks with curb ramps along with a new sidewalk and other miscellaneous work.

**Job Location:** Main Street & Lincoln Street

**Classification**

**Effective Dates and Total Rates**

APPRENTICE: FLOORCOVERER - Local 2168 Zone 1											
Ratio	Step	1	2	3	4	5	6	7	8		
1:1	%	50.00	55.00	60.00	65.00	70.00	75.00	80.00	85.00		
Apprentice rates shall be no less than the following:						Steps are 750 hrs.					
Step 1\$28.38/2\$30.17/3\$41.41/4\$43.20/5\$46.78/6\$48.57/7\$52.15/8\$53.95											
FORK LIFT/CHERRY PICKER						06/01/2011	\$61.290	12/01/2011	\$61.920	06/01/2012	\$62.490
						12/01/2012	\$63.110	06/01/2013	\$63.890	12/01/2013	\$64.670
GENERATOR/LIGHTING PLANT/HEATERS						06/01/2011	\$49.910	12/01/2011	\$50.350	06/01/2012	\$50.740
						12/01/2012	\$51.190	06/01/2013	\$51.740	12/01/2013	\$52.290
GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS)						07/01/2011	\$54.910	01/01/2012	\$55.910	07/01/2012	\$56.910
						01/01/2013	\$57.910				
APPRENTICE: GLAZIER - Local 35 Zone 2											
Ratio	Step	1	2	3	4	5	6	7	8		
1:1	%	50.00	55.00	60.00	65.00	70.00	75.00	80.00	90.00		
Apprentice wages shall be no less than the following:						Steps are 750 hrs.					
Step 1\$24.06/2\$28.79/3\$30.70/4\$32.60/5\$43.00/6\$44.87/7\$46.78/8\$50.60											
HOISTING ENGINEER/CRANES/GRADALLS						06/01/2011	\$61.290	12/01/2011	\$61.920	06/01/2012	\$62.490
						12/01/2012	\$63.110	06/01/2013	\$63.890	12/01/2013	\$64.670
APPRENTICE: HOIST/PORT. ENG.- Local 4											
Ratio	Step	1	2	3	4	5	6	7	8		
1:6	%	55.00	60.00	65.00	70.00	75.00	80.00	85.00	90.00		
Apprentice wages shall be no less than the following:											
Step 1\$31.50/2\$45.65/3\$47.61/4\$49.56/5\$51.52/6\$53.47/7\$55.43/8\$57.38											
HVAC (DUCTWORK)						02/01/2011	\$65.170	08/01/2011	\$66.740	02/01/2012	\$67.990
						08/01/2012	\$69.240	02/01/2013	\$70.490		
HVAC (ELECTRICAL CONTROLS)						03/01/2011	\$68.290				
HVAC (TESTING AND BALANCING - AIR)						02/01/2011	\$65.170	08/01/2011	\$66.740	02/01/2012	\$67.990
						08/01/2012	\$69.240	02/01/2013	\$70.490		
HVAC (TESTING AND BALANCING -WATER)						09/01/2010	\$68.730				
HVAC MECHANIC						09/01/2010	\$68.730				
HYDRAULIC DRILLS						06/01/2011	\$47.500	12/01/2011	\$48.750		
INSULATOR (PIPES & TANKS)						09/01/2010	\$61.660				
APPRENTICE: ASBESTOS INSULATOR (Pipes & Tanks) - Local 6 Boston											
Ratio	Step	1	2	3	4						
1:4	%	50.00	60.00	70.00	80.00						
Apprentice wages shall be no less than the following:						Steps are 1 year					
Step 1\$37.34/2\$42.20/3\$47.07/4\$51.93											
IRONWORKER/WELDER						03/16/2010	\$56.530				

**This wage schedule must be posted at the work site in accordance with M.G.L. ch. 149, sec. 27**

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THE COMMONWEALTH OF MASSACHUSETTS  
EXECUTIVE OFFICE OF LABOR AND WORKFORCE DEVELOPMENT  
DEPARTMENT OF LABOR STANDARDS



DEVAL L. PATRICK  
Governor

As determined by the Commissioner under the provisions of the  
Massachusetts General Laws, Chapter 149, Sections 26 to 27H

JOANNE F. GOLDSTEIN  
Secretary

TIMOTHY P. MURRAY  
Lt. Governor

HEATHER E. ROWE  
Director

**Prevailing Wage Rates**

**Awarding Authority:** Town of Westford

**Contract Number:**

**City/Town:** WESTFORD

**Description of Work:** Installation of two new crosswalks with curb ramps along with a new sidewalk and other miscellaneous work.

**Job Location:** Main Street & Lincoln Street

**Classification**

**Effective Dates and Total Rates**

APPRENTICE: IRONWORKER - Local 7 Lawrence										
Ratio	Step	1	2	3	4	5	6			
	%	60.00	70.00	75.00	80.00	85.00	90.00			
Apprentice wages shall be no less than the following:				Structural 1:6; Ornamental 1:4						
Step 1\$44.18/2\$47.27/3\$48.81/4\$50.35/5\$51.90/6\$53.44										
JACKHAMMER & PAVING BREAKER OPERATOR					06/01/2011	\$47.000	12/01/2011	\$48.250		
LABORER					06/01/2011	\$46.750	12/01/2011	\$48.000		
APPRENTICE: LABORER - Zone 2										
Ratio	Step	1	2	3	4					
1:5	%	60.00	70.00	80.00	90.00					
Apprentice wages shall be no less than the following:										
Step 1\$35.31/2\$38.17/3\$41.03/4\$43.89										
LABORER: CARPENTER TENDER					06/01/2011	\$46.750	12/01/2011	\$48.000		
LABORER: CEMENT FINISHER TENDER					06/01/2011	\$46.750	12/01/2011	\$48.000		
LABORER: HAZARDOUS WASTE/ASBESTOS REMOVER					06/01/2011	\$46.750	12/01/2011	\$48.000		
LABORER: MASON TENDER					06/01/2011	\$47.000	12/01/2011	\$48.250		
LABORER: MULTI-TRADE TENDER					06/01/2011	\$46.750	12/01/2011	\$48.000		
LABORER: TREE REMOVER					06/01/2011	\$46.750	12/01/2011	\$48.000		
This classification applies to the wholesale removal of standing trees including all associated trimming of branches and limbs, and applies to the removal of branches at locations not on or around utility lines.										
LASER BEAM OPERATOR					06/01/2011	\$47.000	12/01/2011	\$48.250		
MARBLE & TILE FINISHERS					03/01/2011	\$59.270	08/01/2011	\$60.950	02/01/2012	\$61.740
APPRENTICE: MARBLE & TILE FINISHER - Local 3 Marble & Tile										
Ratio	Step	1	2	3	4	5				
1:3	%	50.00	60.00	70.00	80.00	90.00				
Apprentice wages shall be no less than the following:										
Steps are 800 hrs.										
Step 1\$41.98/2\$45.43/3\$48.89/4\$52.35/5\$55.81										
MARBLE MASONS, TILELAYERS & TERRAZZO MECH					03/01/2011	\$70.940	08/01/2011	\$73.040	02/01/2012	\$74.030
APPRENTICE: MARBLE-TILE-TERRAZZO MECHANIC - Local 3 Marble & Tile										
Ratio	Step	1	2	3	4	5				
1:3	%	50.00	60.00	70.00	80.00	90.00				
Apprentice wages shall be no less than the following:										
Step 1\$48.32/2\$52.84/3\$57.37/4\$61.89/5\$66.42										
MECH. SWEEPER OPERATOR (NON-CONSTRUCTION)					07/01/2011	\$30.290				
MECH. SWEEPER OPERATOR (ON CONST. SITES)					06/01/2011	\$60.940	12/01/2011	\$61.560	06/01/2012	\$62.120
					12/01/2012	\$62.740	06/01/2013	\$63.510	12/01/2013	\$64.290
MECHANICS MAINTENANCE					06/01/2011	\$60.940	12/01/2011	\$61.560	06/01/2012	\$62.120
					12/01/2012	\$62.740	06/01/2013	\$63.510	12/01/2013	\$64.290
MILLWRIGHT (Zone 2)					04/01/2011	\$55.990				

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Director

**Prevailing Wage Rates**

**Awarding Authority:** Town of Westford

**Contract Number:**

**City/Town:** WESTFORD

**Description of Work:** Installation of two new crosswalks with curb ramps along with a new sidewalk and other miscellaneous work.

**Job Location:** Main Street & Lincoln Street

**Classification**

**Effective Dates and Total Rates**

Classification	Ratio	Step	1	2	3	4	5	6	7	8	Effective Dates	Total Rates
APPRENTICE: MILLWRIGHT - Local 1121 Zone 2	1:5	%	50.00	55.00	60.00	65.00	70.00	75.00	80.00	85.00		
Apprentice wages shall be no less than the following: Step 1\$36.17/2\$37.75/3\$40.93/4\$42.51/5\$44.89/6\$46.47/7\$48.86/8\$50.44												
MORTAR MIXER											06/01/2011	\$47.000
											12/01/2011	\$48.250
OILER (OTHER THAN TRUCK CRANES, GRADALLS)											06/01/2011	\$43.340
											12/01/2012	\$44.300
											06/01/2013	\$44.720
											12/01/2013	\$45.140
OILER (TRUCK CRANES, GRADALLS)											06/01/2011	\$46.520
											12/01/2012	\$47.640
											06/01/2013	\$48.120
											12/01/2013	\$48.610
OTHER POWER DRIVEN EQUIPMENT - CLASS II											06/01/2011	\$60.940
											12/01/2012	\$62.740
											06/01/2013	\$63.510
											12/01/2013	\$64.290
PAINTER (BRIDGES/TANKS)											07/01/2011	\$65.410
											01/01/2012	\$66.410
											01/01/2013	\$68.410
APPRENTICE: PAINTER Local 35 - BRIDGES/TANKS	1:1	%	50.00	55.00	60.00	65.00	70.00	75.00	80.00	90.00		
Apprentice wages shall be no less than the following: Step 1\$29.31/2\$34.57/3\$37.00/4\$39.43/5\$50.35/6\$52.75/7\$55.18/8\$60.05												
PAINTER (SPRAY OR SANDBLAST, NEW) *											07/01/2011	\$56.310
* If 30% or more of surfaces to be painted are new construction, NEW paint rate shall be used.											01/01/2013	\$59.310
APPRENTICE: PAINTER Local 35 Zone 2 - Spray/Sandblast - New	1:1	%	50.00	55.00	60.00	65.00	70.00	75.00	80.00	90.00		
Apprentice wages shall be no less than the following: Step 1\$24.76/2\$29.56/3\$31.54/4\$33.51/5\$43.98/6\$45.92/7\$47.90/8\$51.86												
PAINTER (SPRAY OR SANDBLAST, REPAINT)											07/01/2011	\$54.370
											01/01/2012	\$55.370
											07/01/2012	\$56.370
											01/01/2013	\$57.370
APPRENTICE: PAINTER Local 35 Zone 2 - Spray/Sandblast - Repaint	1:1	%	50.00	55.00	60.00	65.00	70.00	75.00	80.00	90.00		
Apprentice wages shall be no less than the following: Step 1\$23.79/2\$28.49/3\$30.37/4\$32.25/5\$42.62/6\$44.47/7\$46.35/8\$50.11												
PAINTER (TRAFFIC MARKINGS)											06/01/2011	\$46.750
											12/01/2011	\$48.000
PAINTER / TAPER (BRUSH, NEW) *											07/01/2011	\$54.910
* If 30% or more of surfaces to be painted are new construction, NEW paint rate shall be used.											01/01/2013	\$57.910

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**Prevailing Wage Rates**

**Awarding Authority:** Town of Westford

**Contract Number:**

**City/Town:** WESTFORD

**Description of Work:** Installation of two new crosswalks with curb ramps along with a new sidewalk and other miscellaneous work.

**Job Location:** Main Street & Lincoln Street

**Classification**

**Effective Dates and Total Rates**

APPRENTICE: PAINTER - Local 35 Zone 2 - BRUSH NEW										
Ratio	Step	1	2	3	4	5	6	7	8	
1:1	%	50.00	55.00	60.00	65.00	70.00	75.00	80.00	90.00	
Apprentice wages shall be no less than the following:						Steps are 750 hrs.				
Step 1\$24.06/2\$28.79/3\$30.70/4\$32.60/5\$34.00/6\$44.87/7\$46.78/8\$50.60										
PAINTER / TAPER (BRUSH, REPAINT)					07/01/2011	\$52.970	01/01/2012	\$53.970	07/01/2012	\$54.970
					01/01/2013	\$55.970				
APPRENTICE: PAINTER Local 35 Zone 2 - BRUSH REPAINT										
Ratio	Step	1	2	3	4	5	6	7	8	
1:1	%	50.00	55.00	60.00	65.00	70.00	75.00	80.00	90.00	
Apprentice wages shall be no less than the following:						Steps are 750 hrs.				
Step 1\$23.09/2\$27.72/3\$29.53/4\$31.34/5\$41.64/6\$43.42/7\$45.23/8\$48.85										
PANEL & PICKUP TRUCKS DRIVER					06/01/2011	\$44.500	08/01/2011	\$44.850	12/01/2011	\$45.510
					06/01/2012	\$45.810	08/01/2012	\$45.860	12/01/2012	\$47.350
PIER AND DOCK CONSTRUCTOR (UNDERPINNING AND DECK)					08/01/2010	\$62.570	08/01/2011	\$65.320		
PILE DRIVER					08/01/2010	\$62.570	08/01/2011	\$65.320		
APPRENTICE: PILE DRIVER - Local 56 Zone 1										
Ratio	Step	1	2	3	4	5	6	7	8	
1:3	%	60.00	65.00	70.00	75.00	80.00	85.00	90.00	95.00	
Apprentice wages shall be no less than the following:										
Step 1\$47.62/2\$49.49/3\$51.36/4\$53.23/5\$55.10/6\$56.96/7\$58.83/8\$60.70										
PIPEFITTER & STEAMFITTER					09/01/2010	\$68.730				
APPRENTICE: PIPEFITTER - Local 537										
Ratio	Step	1	2	3	4	5				
**	%	40.00	45.00	60.00	70.00	80.00				
Apprentice Rates-Step1\$33.44/2\$43.38/3\$50.29/4\$54.90/5\$59.51						** 1:3; 3:15; 1:10 thereafter / Steps are 1 yr.				
Refrig/AC Mechanic **1:1;1:2;2:4;3:6;4:8;5:10;6:12;7:14;8:17;9:20;10:23(Max)										
PIPELAYER					06/01/2011	\$47.000	12/01/2011	\$48.250		
PLUMBERS & GASFITTERS					03/01/2011	\$67.500	09/01/2011	\$68.250	03/01/2012	\$69.050
					09/01/2012	\$70.300	03/01/2013	\$71.550		
APPRENTICE: PLUMBER - Local 12										
Ratio	Step	1	2	3	4	5				
**	%	35.00	40.00	55.00	65.00	75.00				
Apprentice wages shall be no less than the following:						** 1:2; 2:6; 3:10; 4:14; 5:19/Steps are 1 yr				
Step 1\$30.01/2\$32.89/3\$41.54/4\$47.31/ 4w/lic\$50.20 /5\$53.09/ 5w/lic\$55.98										
PNEUMATIC CONTROLS (TEMP.)					09/01/2010	\$68.730				
PNEUMATIC DRILL/TOOL OPERATOR					06/01/2011	\$47.000	12/01/2011	\$48.250		
POWDERMAN & BLASTER					06/01/2011	\$47.750	12/01/2011	\$49.000		

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**Prevailing Wage Rates**

**Awarding Authority:** Town of Westford

**Contract Number:**

**City/Town:** WESTFORD

**Description of Work:** Installation of two new crosswalks with curb ramps along with a new sidewalk and other miscellaneous work.

**Job Location:** Main Street & Lincoln Street

Classification	Effective Dates and Total Rates					
POWER SHOVEL/DERRICK/TRENCHING MACHINE	06/01/2011	\$61.290	12/01/2011	\$61.920	06/01/2012	\$62.490
	12/01/2012	\$63.110	06/01/2013	\$63.890	12/01/2013	\$64.670
PUMP OPERATOR (CONCRETE)	06/01/2011	\$61.290	12/01/2011	\$61.920	06/01/2012	\$62.490
	12/01/2012	\$63.110	06/01/2013	\$63.890	12/01/2013	\$64.670
PUMP OPERATOR (DEWATERING, OTHER)	06/01/2011	\$49.910	12/01/2011	\$50.350	06/01/2012	\$50.740
	12/01/2012	\$51.190	06/01/2013	\$51.740	12/01/2013	\$52.290
READY-MIX CONCRETE DRIVER	05/01/2010	\$33.790				
RECLAIMERS	06/01/2011	\$60.940	12/01/2011	\$61.560	06/01/2012	\$62.120
	12/01/2012	\$62.740	06/01/2013	\$63.510	12/01/2013	\$64.290
RESIDENTIAL WOOD FRAME (All Other Work)	04/01/2011	\$48.420				
RESIDENTIAL WOOD FRAME CARPENTER **	04/01/2011	\$36.810				
** The Residential Wood Frame Carpenter classification applies only to the construction of new, wood frame residences that do not exceed four stories including the basement.						
As of 9/1/09 Carpentry work on wood-frame residential WEATHERIZATION projects shall be paid the RESIDENTIAL WOOD FRAME CARPENTER rate.						
APPRENTICE: CARPENTER (Residential Wood Frame) - Zone 2						
Ratio	Step	1	2	3	4	5
1:5	%	60.00	60.00	65.00	70.00	75.00
						80.00
						85.00
						90.00
Apprentice wages shall be no less than the following:						
Step 1\$20.88/2\$27.11/3\$28.33/4\$29.54/5\$30.75/6\$31.96/7\$33.17/8\$34.39						
RIDE-ON MOTORIZED BUGGY OPERATOR	06/01/2011	\$47.000	12/01/2011	\$48.250		
ROLLER/SPREADER/MULCHING MACHINE	06/01/2011	\$60.940	12/01/2011	\$61.560	06/01/2012	\$62.120
	12/01/2012	\$62.740	06/01/2013	\$63.510	12/01/2013	\$64.290
ROOFER (Inc.Roofers Waterproofing &Roofers Damproofg)	02/01/2011	\$54.860	08/01/2011	\$55.860	02/01/2012	\$56.860
	08/01/2012	\$57.860	02/01/2013	\$58.860		
APPRENTICE: ROOFER - Local 33						
Ratio	Step	1	2	3	4	5
**	%	50.00	60.00	65.00	75.00	85.00
** 1:5, 2:6-10, the 1:10; Reroofing: 1:4, then 1:1						
Step 1 is 2000 hrs.; Steps 2-5 are 1000 hrs.						
Apprentice rates no less than: Step 1\$30.41/2\$40.64/3\$42.41/4\$45.97/5\$49.53						
ROOFER SLATE / TILE / PRECAST CONCRETE	02/01/2011	\$55.110	08/01/2011	\$56.110	02/01/2012	\$57.110
	08/01/2012	\$58.110	02/01/2013	\$59.110		
APPRENTICE: ROOFER (Slate/Tile/Precast Concrete) - Local 33						
Ratio	Step	1	2	3	4	5
**	%	50.00	60.00	65.00	75.00	85.00
Apprentices wages shall be paid no less than the following:						
Step 1\$30.54/2\$40.79/3\$42.58/4\$46.16/5\$49.74						
SHEETMETAL WORKER	02/01/2011	\$65.170	08/01/2011	\$66.740	02/01/2012	\$67.990
	08/01/2012	\$69.240	02/01/2013	\$70.490		

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**Prevailing Wage Rates**

**Awarding Authority:** Town of Westford

**Contract Number:**

**City/Town:** WESTFORD

**Description of Work:** Installation of two new crosswalks with curb ramps along with a new sidewalk and other miscellaneous work.

**Job Location:** Main Street & Lincoln Street

**Classification**

**Effective Dates and Total Rates**

APPRENTICE: SHEET METAL WORKER - Local 17-A											
Ratio	Step	1	2	3	4	5	6	7			
1:4	%	40.00	45.00	50.00	60.00	65.00	75.00	85.00			
Apprentice wages shall be no less than the following:						Steps 1-3 are 1 year; Steps 4-7 are 6 mos.					
Step 1\$28.86/2\$34.49/3\$37.38/4\$42.38/5\$45.01/6\$50.27/7\$55.03											
SIGN ERECTOR						06/01/2009	\$37.780				
APPRENTICE: SIGN ERECTOR - Local 35 Zone 2											
Ratio	Step	1	2	3	4	5	6	7	8	9	
1:1	%	50.00	55.00	60.00	65.00	70.00	75.00	80.00	85.00	90.00	
Apprentice wages shall be no less than the following:						Steps are 4 mos.					
Step 1\$19.48/2\$23.12/3\$24.36/4\$25.60/5\$30.34/6\$31.58/7\$32.82/8\$34.06/9\$35.30											
SPECIALIZED EARTH MOVING EQUIP < 35 TONS						06/01/2011	\$44.960	08/01/2011	\$45.310	12/01/2011	\$45.970
						06/01/2012	\$46.270	08/01/2012	\$46.620	12/01/2012	\$47.650
SPECIALIZED EARTH MOVING EQUIP > 35 TONS						06/01/2011	\$45.250	08/01/2011	\$45.600	12/01/2011	\$46.260
						06/01/2012	\$46.560	08/01/2012	\$46.910	12/01/2012	\$47.940
SPRINKLER FITTER						01/01/2011	\$70.550	09/01/2011	\$71.350	01/01/2012	\$71.500
						03/01/2012	\$72.250	09/01/2012	\$73.250	01/01/2013	\$73.400
						03/01/2013	\$74.400				
APPRENTICE: SPRINKLER FITTER - Local 550											
Ratio	Step	1	2	3	4	5	6	7	8	9	10
1:1	%	40.00	45.00	50.00	55.00	60.00	65.00	70.00	75.00	80.00	85.00
Apprentice wages shall be no less than the following steps:											
1\$36.20/2\$38.75/3\$41.30/4\$43.85/5\$46.40/6\$48.95/7\$51.50/8\$54.05/9\$56.60/10\$59.15											
STEAM BOILER OPERATOR						06/01/2011	\$60.940	12/01/2011	\$61.560	06/01/2012	\$62.120
						12/01/2012	\$62.740	06/01/2013	\$63.510	12/01/2013	\$64.290
TAMPERS, SELF-PROPELLED OR TRACTOR DRAWN						06/01/2011	\$60.940	12/01/2011	\$61.560	06/01/2012	\$62.120
						12/01/2012	\$62.740	06/01/2013	\$63.510	12/01/2013	\$64.290
TELECOMMUNICATION TECHNICIAN						03/01/2011	\$56.300				
APPRENTICE: TELECOMMUNICATION TECHNICIAN - Local 103											
Ratio	Step	1	2	3	4	5	6	7	8		
1:1	%	40.00	45.00	50.00	55.00	60.00	65.00	75.00	80.00		
Apprentice wages shall be no less than the following:											
Step 1\$37.09/2\$38.69/3\$40.30/4\$41.89/5\$43.49/6\$45.10/7\$48.30/8\$49.90											
TERRAZZO FINISHERS						03/01/2011	\$69.840	08/01/2011	\$71.940	02/01/2012	\$72.930
APPRENTICE: TERRAZZO FINISHER - Local 3 Marble & Tile											
Ratio	Step	1	2	3	4	5					
1:3	%	50.00	60.00	70.00	80.00	90.00					
Apprentice wages shall be no less than the following:						Steps are 800 hrs.					
Step 1\$47.77/2\$52.18/3\$56.60/4\$61.01/5\$65.43											

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JOANNE F. GOLDSTEIN  
Secretary

HEATHER E. ROWE  
Director

**Prevailing Wage Rates**

**As determined by the Commissioner under the provisions of the  
Massachusetts General Laws, Chapter 149, Sections 26 to 27H**

**Awarding Authority:** Town of Westford

**Contract Number:**

**City/Town:** WESTFORD

**Description of Work:** Installation of two new crosswalks with curb ramps along with a new sidewalk and other miscellaneous work.

**Job Location:** Main Street & Lincoln Street

Classification	Effective Dates and Total Rates					
	Start Date	Rate	Start Date	Rate	Start Date	Rate
TEST BORING DRILLER	06/01/2011	\$51.500	12/01/2011	\$52.750		
TEST BORING DRILLER HELPER	06/01/2011	\$50.220	12/01/2011	\$51.470		
TEST BORING LABORER	06/01/2011	\$50.100	12/01/2011	\$51.350		
TRACTORS/PORTABLE STEAM GENERATORS	06/01/2011	\$60.940	12/01/2011	\$61.560	06/01/2012	\$62.120
	12/01/2012	\$62.740	06/01/2013	\$63.510	12/01/2013	\$64.290
TRAILERS FOR EARTH MOVING EQUIPMENT	06/01/2011	\$45.540	08/01/2011	\$45.890	12/01/2011	\$46.550
	06/01/2012	\$46.850	08/01/2012	\$47.200	12/01/2012	\$48.230
TUNNEL WORK - COMPRESSED AIR	06/01/2011	\$62.930	12/01/2011	\$64.180		
TUNNEL WORK - COMPRESSED AIR (HAZ. WASTE)	06/01/2011	\$64.930	12/01/2011	\$66.180		
TUNNEL WORK - FREE AIR	06/01/2011	\$55.000	12/01/2011	\$56.250		
TUNNEL WORK - FREE AIR (HAZ. WASTE)	06/01/2011	\$57.000	12/01/2011	\$58.250		
VAC-HAUL	06/01/2011	\$44.960	08/01/2011	\$45.310	12/01/2011	\$45.970
	06/01/2012	\$46.270	08/01/2012	\$46.620	12/01/2012	\$47.650
WAGON DRILL OPERATOR	06/01/2011	\$47.000	12/01/2011	\$48.250		
WASTE WATER PUMP OPERATOR	06/01/2011	\$61.290	12/01/2011	\$61.920	06/01/2012	\$62.490
	12/01/2012	\$63.110	06/01/2013	\$63.890	12/01/2013	\$64.670
WATER METER INSTALLER	03/01/2011	\$67.500	09/01/2011	\$68.250	03/01/2012	\$69.050
	09/01/2012	\$70.300	03/01/2013	\$71.550		

**Additional Apprentices Information:**

Minimum wage rates for apprentices employed on public works projects are listed above as a percentage of the pre-determined hourly wage rate established by the Commissioner under the provisions of the M.G.L. c. 149, ss. 26-27D. Apprentices ratios are established by the Division of Apprenticeship Training pursuant to M.G.L. c. 23, ss. 11E-11L.

All apprentices must be registered with the Division of Apprenticeship Training in accordance with M.G.L. c. 23, ss. 11E-11L.

All steps are six months (1000 hours) unless otherwise specified.

\* Ratios are expressed in allowable number of apprentices to journeymen or fraction thereof.

\*\* Multiple ratios are listed in the comment field.

\*\*\* The job site ratio of 2 apprentices (APP) for every 3 journeymen (JM) is allowed as follows:

1 JM: 1 APP; 2-3 JM: 2 APP; 4-6 JM: 4 APP; 7-9 JM: 6 APP; 10-12 JM: 8 APP; 13-15 JM: 10 APP; etc.

\*\*\*\* The job site ratio of 2 apprentices (APP) for every 3 journeymen (JM) is allowed as follows: 1-2 JM: 1 APP; 3-4 JM: 2 APP; 5 JM: 3 APP; 6-7 JM: 4 APP; 8 JM: 5 APP; etc.

**This wage schedule must be posted at the work site in accordance with M.G.L. ch. 149, sec. 27**

**Failure of the employer to pay "prevailing wage rates," which are the minimum wage rates listed above, on public works projects is a violation of M.G.L. ch. 149, sec. 27. Employees not receiving such rates should report the violation to the Office of Fair Labor and Business Practices, 100 Cambridge Street, Boston, MA 02108; Tel: 617-727-3465.**

# **LOCATION AND SCOPE OF WORK**

## **TOWN CENTER PEDESTRIAN SAFETY IMPROVEMENTS**

### **1. DESCRIPTION OF THE PROJECT**

The work for this project includes, but is not limited to, handicap accessible ramps (4), new walkway through Town Common (pavers), signs, install new paint markings and remove existing pavement markings by grinding asphalt surface, and other miscellaneous work.

### **2. LOCATION OF PROJECT**

The work to be performed is located at the Town Common between Lincoln Street and Main Street in the Town of Westford.

### **3. SCOPE OF WORK**

The work under this contract consists of furnishing all necessary labor, materials, equipment and services to complete the handicap accessible ramps, new walkway through Town Common, signs, install new paint markings and remove existing pavement markings by grinding asphalt surface, and other miscellaneous work in the Town of Westford, as well as all incidental work necessary to complete the work as described herein. It is the responsibility of the Contractor to obtain a Street Opening Permit from the Westford Highway Department, including the establishment of a bond as determined by the Highway Superintendent. A copy of the Street Opening Permit Application is contained herein. Safety signs, barrels, barriers and other equipment and material required to protect the work and workers shall be provided by the Contractor at no additional cost to the Town. The Town will provide Police Details, if required by the Westford Police Department, at no additional cost to the Contractor.

All work done under this contract shall be in conformance with the Massachusetts Department of Highways STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES DATED 1988, THE SUPPLEMENTAL SPECIFICATIONS (English units) DATED June 6, 2006, 1992 AASHTO SPECIFICATIONS FOR HIGHWAYS AND BRIDGES WITH INTERIMS THROUGH 1994, MHD BRIDGE MANUAL PART I AND PART II, BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-89) OR LATER, THE 1977 CONSTRUCTION STANDARDS, THE 2003 EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), THE 1997 WHEELCHAIR RAMP MASS HIGHWAY STANDARDS, THE AMERICAN WATER WORKS ASSOCIATION STANDARD FOR THE INSTALLATION OF DUCTILE-IRON WATER MAINS AND THEIR APPURTENANCES, THE 1981 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, COMMONWEALTH OF MASSACHUSETTS STATE BUILDING CODE: latest edition, the PLANS and these SPECIAL PROVISIONS.

**PROPOSAL TO  
TOWN OF WESTFORD, MASSACHUSETTS**

**TOWN CENTER PEDESTRIAN SAFETY IMPROVEMENTS**

The undersigned certifies under penalties of perjury that this bid or proposal has been made and submitted in good faith and without collusion or fraud with any other person. As used in this certification, the word "person" shall mean any natural person, business, partnership, corporation, union, committee, club, or other organization, entity, or group of individuals. The undersigned further certifies that the only persons or parties interested in this proposal as principals are as stated, that he/she has carefully examined the Instructions to Bidders, Contract, Specifications, Scope of Work, all as prepared by the office of the Town Engineer; that he/she has informed himself/herself fully in regard to all conditions pertaining to the work and the place where it is to be done, and from them the undersigned makes this Proposal. The Lump Sum price shall cover all expenses incurred in performing the work required under the Contract Documents, of which this proposal is a part.

If written notice of the acceptance of this bid is mailed, or otherwise delivered to the undersigned within 30 days, excluding Saturdays, Sundays, and legal holidays, after the date of opening the bid, the undersigned will within five days, excluding Saturdays, Sundays, and legal holidays, after the date of such notification, execute and deliver a Contract in the form attached thereto.

The undersigned hereby agrees to commence work under this Contract within 10 working days of the execution of the Contract. The bidder acknowledges receipt of the following addenda numbered:

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In accordance with the above understanding, the undersigned proposes to do all of the work, furnish all of the materials, and complete the work in its entirety in the manner and under the conditions required at the Lump Sum price listed on the following BID FORM:

**BID FORM for**  
**TOWN CENTER PEDESTRIAN SAFETY IMPROVEMENTS**

Construct handicap accessible ramps, new walkway through Town Common, signs, install & remove pavement markings, and other miscellaneous work as stated in bid plans and specifications and as outlined in the Scope of Work.

**Total Lump Sum Price \$** \_\_\_\_\_ **Words** \_\_\_\_\_

\_\_\_\_\_  
DATE

\_\_\_\_\_  
(Name of General Bidder)

\_\_\_\_\_  
(Title)

SEAL (if Bid by a Corporation)

\_\_\_\_\_  
(Business Address)

\_\_\_\_\_  
ATTEST

\_\_\_\_\_  
(City and State)

NOTE: If the General Bidder is corporation, indicate State of Incorporation under signature and affix corporate seal; if a partnership, give full names and residential address of all partners; and if an individual, give residential address if different from business address.

**CERTIFICATE OF NON-COLLUSION**

The undersigned certifies under penalties of perjury that this bid or proposal has been made and submitted in good faith and without collusion or fraud with any other person. As used in this certification, the word "person" shall mean any natural person, business, partnership, corporation, union, committee, club, or other organization, entity, or group of individuals.

**TAX COMPLIANCE CERTIFICATION**

Pursuant to M.G.L. c. 62C, §49A, I certify under the penalties of perjury that, to the best of my knowledge and belief, I am in compliance with all laws of the Commonwealth relating to taxes, reporting of employees and contractors, and withholding and remitting child support..

\_\_\_\_\_  
Signature of Individual\* By: Corporate Office or  
Corporate Name (Mandatory, if Applicable)

\_\_\_\_\_  
Social Security Number\*\* (Voluntary) or Federal  
Identification (Mandatory)

\* Approval of a contract or other agreement will not be granted unless this certification clause is signed by the applicant.

\*\* Your social security number will be furnished to the Massachusetts Department of Revenue to determine whether you have met tax filing or tax payment obligations. Bidders who fail to correct their non-filing or delinquency will not have a contract or other agreement issued, renewed, or extended. This request is made under the authority of Mass. G.L. c. 62C s. 49A.

# TOWN OF WESTFORD

## TOWN CENTER PEDESTRIAN SAFETY IMPROVEMENTS

THIS AGREEMENT, made the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, by and between the Town of Westford, Massachusetts acting through its Town Manager, hereinafter called the Town and

\_\_\_\_\_  
\_\_\_\_\_

with legal address and principal place of business at

\_\_\_\_\_  
\_\_\_\_\_

hereinafter called the Contractor.

WITNESSETH: That for and in consideration of the payments and agreements hereinafter mentioned, to be made and performed by the Town, the Contractor hereby agrees with the Town to commence TOWN CENTER PEDESTRIAN SAFETY IMPROVEMENTS, hereinafter called the project, for the consideration set forth in the proposal and all extra work in connection therewith, under the terms as stated in the conditions of the contract; and at his/her own proper cost and expense to furnish all materials, supplies, machinery, equipment, tools, superintendence, labor, insurance, and other accessories and services necessary to complete the said project in accordance with the conditions and prices stated in the proposal, the specifications, and drawings prepared therefor and as enumerated on the table of contents sheet, all of which are made a part hereof and collectively evidence and constitute the contract.

The Contractor hereby agrees to commence work under this contract within ten working days of the execution of this contract and to fully complete the project within the time specified in section 0200 of these contract documents.

The Town agrees to pay the Contractor for the performance of the Contract, subject to additions and deductions; and to make Payments on account thereof as provided in the Specifications of the contract.

WITNESS WHEREOF: the parties to these presents have executed this Contract in the year and day first above mentioned.

BY: \_\_\_\_\_  
Jodi Ross, Town Manager  
for the Town of Westford, MA

CONTRACTOR:

BY: \_\_\_\_\_  
\_\_\_\_\_

As required by Chapter 693 of the Acts of 1964, this is to certify that the Town has an appropriation which is adequate to cover the cost of the contract.

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Date

Signed

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Town Accountant

The Certificate shall be signed by the Auditor or Accountant or other Officer of the Town of Westford, Massachusetts having similar duties and the Official Title noted below the Signature.

Note: If the Bidder to whom the Contract is awarded is a Corporation, a Certificate of Vote giving the officer the right to sign the Contract must accompany the executed Contract. The form on page 0600-3 can be used for this purpose.

**CERTIFICATE OF VOTE**  
**(Corporations Only)**

At a duly authorized meeting of the Board of Directors of the \_\_\_\_\_  
Name of corporation  
\_\_\_\_\_ held on \_\_\_\_\_ it was VOTED, That  
Date  
\_\_\_\_\_  
Name Officer

of this company, be and hereby is authorized to execute contracts and bonds in the name and on behalf of said company, and affix its corporate seal hereto; and such execution of any contract or obligation in this company's name on its behalf by such officer under seal of the company, shall be valid and binding upon this company.

I hereby certify that I am the clerk of the above named corporation and that

\_\_\_\_\_ is the duly elected officer as above of said company, and that the above vote has not been amended or rescinded and remains in full force and effect as the date of this contract.

\_\_\_\_\_  
Date

\_\_\_\_\_  
Clerk

Corporate Seal

## **OSHA Compliance**

The undersigned certifies under pains and penalties of perjury that all work pertaining to this bid (Pond Road reconstruction) is in compliance with M.G.L. c.30. sec. 39S as further described below;

Section 39S. (a) As used in this section the word "person" shall mean any natural person, joint venture, partnership corporation or other business or legal entity. Any person submitting a bid for, or signing a contract to work on, the construction, reconstruction, alteration, remodeling or repair of any public work by the commonwealth, or political subdivision thereof, or by any county, city, town, district, or housing authority, and estimated by the awarding authority to cost more than \$10,000, and any person submitting a bid for, or signing a contract to work on, the construction, reconstruction, installation, demolition, maintenance or repair of any building by a public agency, estimated to cost more than \$10,000, shall certify on the bid, or contract, under penalties of perjury, as follows:

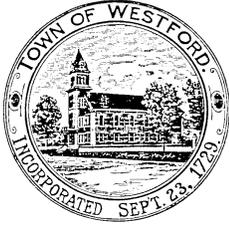
(1) that he is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed in the work; (2) that all employees to be employed at the worksite will have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in duration at the time the employee begins work and who shall furnish documentation of successful completion of said course with the first certified payroll report for each employee; and (3) that all employees to be employed in the work subject to this bid have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in duration.

(b) Any employee found on a worksite subject to this section without documentation of successful completion of a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in duration shall be subject to immediate removal.

(c) The attorney general, or his designee, shall have the power to enforce this section including the power to institute and prosecute proceedings in the superior court to restrain the award of contracts and the performance of contracts in all cases where, after investigation of the facts, he has made a finding that the award or performance has resulted in violation, directly or indirectly, of subsection (b), and he shall not be required to pay to the clerk of the court an entry fee in connection with the institution of the proceeding.

\_\_\_\_\_  
(Signature of individual responsible)

\_\_\_\_\_  
(Name of Business)



# TOWN OF WESTFORD

## PUBLIC WORKS

RICHARD J. BARRETT, JR.  
Highway Superintendent

### PERMIT TO EXCAVATE A PUBLIC WAY

DATE OF APPLICATION \_\_\_\_\_

REASON FOR OPENING: Gas \_\_\_ Telephone \_\_\_ Electric \_\_\_ Sewer \_\_\_ Water \_\_\_ Other \_\_\_

APPLICANT: \_\_\_\_\_

Name	Business Address	Telephone
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Home Phone	Beeper #	Cell Phone
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Issue Date (Proposed Start)	Completion Date
-----------------------------	-----------------

Street name (Opening)	Location on Street of Opening
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Purpose of Cut & Excavation	Approx. Size of Cut (Lin. Ft.)
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Responsible Parties Name	Home Address
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**PERMITS WILL BE ISSUED SUBJECT TO THE FOLLOWING CONDITIONS:**

1. All work shall be done in accordance with the provisions of the Town of Westford Standards for Street and Sidewalk Excavations amended and approved by the Board of Selectmen.
2. Compliance with Massachusetts General Laws, Chapter 82, Section 40.
3. The Highway Superintendent and the Chief of Police must be notified 48 hours prior to excavation start, and also 48 hours prior to resurfacing of opening.
4. Emergency street openings will be authorized by the Highway Superintendent. The Chief of Police is to be notified on Emergency Street openings.
5. Permittee will be required to maintain street openings in accordance with the provisions of the Town Permit.
6. Highway Superintendent must be notified upon completion of work to enable final inspection check procedures.
7. The provisions of the permit may be changed to meet existing conditions where Public Safety and convenience require it in the opinion of the Highway Superintendent.
8. Inspection services shall be required as determined by the Highway Superintendent. Coordination and payment for inspectional services shall be the responsibility of the Permittee. Final approval of the Permit shall be subject to payment in full.
9. I agree to the above conditions: \_\_\_\_\_ Responsible Party Signature: \_\_\_\_\_

**PERMIT GRANTED**    DATE \_\_\_\_\_

APPROVED BY: \_\_\_\_\_  
Highway Superintendent

\$50 Fee Submitted/Check # \_\_\_\_\_

Emergency # on File

FINAL INSPECTION: \_\_\_\_\_

Received Copy of Specifications

Highway Superintendent

Bond on File     Certificate of Insurance on File     Dig Safe # \_\_\_\_\_

***WARNING: PERMITS FOR STREET OPENINGS WILL BE REFUSED TO ANYONE WHEREIN THE APPLICANT HAS FAILED TO COMPLY WITH ANY AND ALL REQUIREMENTS OF PRIOR PERMITS ISSUED.***

Highway Department \_ Engineering Department \_ 55 Main Street, Westford, MA 01886  
Tel. (978) 692-5520 \_ (978) 692-5517 \_ (978) 692-5537 \_ Fax (978) 399-2726

**TOWN OF WESTFORD**  
**STANDARDS FOR STREET AND SIDEWALK**  
**EXCAVATIONS**

**SECTION 1. PERMIT**

- 1.1 No person or individual, corporation or other type of entity shall open a trench in, or disturb the surface of, any existing street or way, or any proposed way or street in a proposed subdivision, for any of the following purposes, but not restricted thereto, of installing, repairing, and/or maintaining any duct, conduit, sleeve, pipe or other structure to be used for distribution or transmission of wastewater or sewage, surface or storm water, potable water, brook or water course, gas, oil or any of its by-products in any form, electrical power or service, telephone or telegraph service, until a permit therefor is granted by the Highway Superintendent or his designee. This permit does not apply to the placing or replacing of poles.
- 1.2 Permits will be issued only in accordance with this permit to the owners of the utility or the utility company by whom the utility installation is wanted, or others as described in paragraph 1.1, or to their duly authorized agents only. All work covered by permit shall commence within one (1) month of date of issuance of permit and be pursued diligently until completed. Time of completion shall be stated in permit and upon expiration of said time a new permit will have to be issued under conditions and terms as required by this permit and its amendments in effect at the renewal date. For the purpose of this permit a CATV company or corporation shall be considered a utility.
- 1.3 The owners of the utility and/or utility company or others, as described in paragraph 1.1, shall exercise this permit subject to all the rules and regulations made from time to time by the Massachusetts Highway Department, Department of Public Works, and Department of Public Utilities, and nothing in this permit be construed as authorizing any installations or maintenance therefor except in strict conformity with all federal, state, and municipal laws, ordinances, by-laws, and regulations.
- 1.4 No work shall begin or continue in any street or way unless the permit legally and duly issued, or a duplicate copy, be on the site of the work and shall be shown to any Police Officer or other authorized municipal person upon request thereby. A legally and duly issued permit shall be a permit which states the name and business address, business phone numbers and emergency phone numbers of the applicant, a specific date of issuance, a specific date of completion, and general description of the work to be done that is signed by the Highway Superintendent.
- 1.5 All applications for any permit shall be in quadruplicate. All applications and work to be done under any permit issued must meet with the approval of the Highway Superintendent.
- 1.6 If, during the progress of the work to be done, under the initial permit, any existing duct, conduit, sleeve, pipe or other structure used for the distribution or transmission of wastewater or sewage, surface or storm water, potable water, brook or water course,

gas, oil or any of its by-products in any form, electrical power or service, telephone or telegraph service is encountered and must be relocated and/or modified in any way so that the work will function properly and as intended upon completion, a separate legally and duly issued permit must be obtained for each proposed relocation and/or modification.

- 1.7 All applications for any permit shall be accompanied by a certified check payable to the Town of Westford in the amount of \$50.00 for each permit. If work is to be done on more than one (1) way or street, a separate legally and duly issued permit must be obtained for each way or street. Permits required under paragraph 1.6 and the first renewal of any legally and duly issued permit are not subject to the application fee as provided for in this paragraph. Failure of work to commence within one (1) month of the date of issuance automatically voids the permit and will result in forfeiture of ten percent (10%) of the application fee to the Town of Westford.
- 1.8 All outstanding permits, issued by the Highway Superintendent, or any other Town governmental board, committee, or body which had and/or had authorization to issue permits to open a trench in, or disturb the surface of, any existing and/or proposed way or street, that have not been exercised, either in whole or in part, prior to this permit being adopted by the Town shall be void.
- 1.9.1 All construction work performed shall be performed by a contractor licensed by the Highway Superintendent.
- 1.9.2 Contractors licensed to perform work shall carry Comprehensive Public Liability Insurance with the minimum limits as follows:
  - a) Bodily Injuries - \$100,000 per person \$300,000 aggregate
  - b) Property Damage - \$100,000 per occurrence

Contractor shall deliver a current Certificate of Insurance, naming the Town of Westford as a beneficiary, to the Highway Superintendent before performing work under this Article and shall post a \$5,000 performance bond with the Town securing work to be performed within the public right-of-way. On projects where the Highway Superintendent determines that the cost of construction, is \$5,000 or greater, the contractor shall post a performance bond payable to the Town securing 100% of the construction cost. The bond will be reviewed for release after one (1) year and upon approval of the work by the Highway Superintendent.

- 1.9.3 Violations of the provisions shall result in the revocation, by the Superintendent, of the contractor's license to perform work in the Town of Westford.

## **SECTION 2. PLANS, SURVEYS, MEASUREMENTS AND CONTROL**

- 2.1 Unless specifically waived by the Highway Superintendent, all applications for a permit under this permit shall be accompanied with the following:
- 2.1.1 A separate sheet 24" x 36" in size for each street or way to be included within proposed work, said sheet to show a plan view, with north point, and profile of the street or way at a horizontal scale of forty (40) feet to an inch and a vertical scale of four (4) feet to an inch, with existing center line grades, in fine solid lines with existing elevations, derived from actual field survey, at fifty (50) foot stations shown by figures. Said plan view of the proposed work and installation shall show location of the work in reference to existing utilities and structures, i.e., sanitary sewers and drains, water mains, any locatable utility installations, and their appurtenances, easements property and street right-of-way lines, bounds, and/or property markers, and other necessary physical features such as curb lines, sidewalks, water gates, gas gates, utility poles, and trees of diameter greater than six (6) inches.
- Said profile of the proposed work and installation shall show location of work in reference to existing utilities and structures, i.e., sanitary sewers, storm sewers and drains, water mains, any locatable utility installations, and their appurtenances. Both plan view and profile shall extend at least two hundred fifty (250) feet beyond the end limits of the proposed work and installation. All information pertaining to existing lines and utilities to be shown in fine lines, all proposed work to be shown in heavy lines. The plan view shall be on the upper portion of the sheet and the profile on the lower portion of the sheet.
- 2.1.2 Offset lines and/or ties from locatable or relocatable points must be shown, e.g. bound points and property lines.
- 2.1.3 Cross sections and/or details of proposed conduits, structures, etc. must be shown. Details and dimensions of outsized structures including manholes and vaults must be shown. All outsized structures including manholes and vaults must be shown. All cross sections and details must be drawn to scale on a separate sheet, 24" x 36" in size.
- 2.1.4 All vertical control shall be based on the Town of Westford datum.
- 2.1.5 All horizontal control shall be based on the Town of Westford Coordinate System.
- 2.1.6 Construction standards as hereinafter detailed must be visually detailed and/or inscribed on the plan view and/or profile.
- 2.1.7 Each sheet shall be a one and one-half (1 1/2) inch border on the left and one-half (1/2) inch border along the remainder of the sheet. The lower right hand corner of each sheet shall contain the name of the street or way, type of proposed utility installation, name and address of applicant for permit, date, scale, name and address of surveyor, name and address of engineer, and sheet number in a block 4" x 6" in size. If the proposed work and installation involves more than five thousand (5,000) linear feet of street or way, a title sheet, 24" x 36" in size, shall be the first sheet of the plans with a locus plan of the work at a scale of two thousand (2,000) feet to an inch.
- 2.1.8 Names of all abutters to the street or way proposed for the work shall be shown on each plan as they appear in the most recent tax list.

- 2.1.9 Each sheet of the Plans shall be signed and stamped by a Registered Land Surveyor and Registered Professional Engineer with seals of registration for the Commonwealth of Massachusetts. Those portions of the plan representing engineering design shall be prepared by a Registered Professional Engineer.
- 2.1.10 A letter size locus plan of the work at a scale of two thousand (2,000) feet to an inch, in quadruplicate, must accompany the permit application.
- 2.1.11 Eight (8) prints, dark line on white background, of sheets shall be submitted with the applications.
- 2.1.12 When required by the Highway Superintendent, "as-built" plans showing locations of all installed and affected utilities shall be prepared in the same format as outlined in this section
- 2.2 If deemed necessary by the Highway Superintendent, or his duly authorized representative, a baseline or centerline of construction for both vertical and horizontal control of the work will be established prior to construction by a Registered Land Surveyor. This baseline or centerline will be shown on final construction plans. No variation from the baseline or centerline of construction to be made unless written permission is given by the Highway Superintendent, or his duly authorized representative. All plans are to be submitted to the Highway Superintendent for review prior to issuance of permit.
- 2.3 When proposed location of installation is in the sidewalk area or in any other location where accuracy of bounds, points, property markers, etc., may be jeopardized, the Highway Superintendent shall require that a Registered Land Surveyor locate and properly reference tie all such points prior to construction. Upon completion of all construction, the bounds, bound points, property markers, etc., will then be checked against the reference ties and any variation of said points will be duly recorded by the Registered Land Surveyor. A legible copy of all field notes and ties recorded by the Registered Land Surveyor, upon completion of his work, become the property of the Highway Superintendent. Original field notes are to be available for examination by duly authorized, representatives of the Highway Superintendent upon request.

### **SECTION 3. NOTIFICATION OF COMMENCEMENT**

Written notification of one (1) week prior to commencing construction will be required. This notification shall be sent to the Highway Superintendent and Police Chief and shall contain the name, address, and telephone number of the contractor or party which is to perform the work. The telephone number shall be for emergency calls which may arise when the contractor is absent from the work site.

### **SECTION 4. WORK HOURS**

- 4.1 All work to be performed hereunder shall be done between the hours of 7:30 A.M. and 4:30 P.M. provided, that different work hours for the performance of such work may be

agreed upon or required for good cause by the Highway Superintendent and said requirement shall be stated in writing at the time of issuance of the permit.

- 4.2 No Saturday, Sunday or legal holiday work will be allowed unless an emergency or accommodation situation arises, and permission is given by the Highway Superintendent. Said permission may be granted orally; however, a written confirmation that such permission has been granted shall be made by the Highway Superintendent as soon as practicable thereafter.
- 4.3 In regard to Saturday, Sunday or legal holiday work the Highway Superintendent shall determine whether an emergency or accommodation situation exists. Emergency is an unforeseen combination of circumstances which calls for immediate action, a pressing necessity. Emergency calls shall be made to the Westford Police Department to contact the Highway Superintendent.
- 4.4 No excavation, trenching, etc., shall be allowed in any street or way, accepted or unaccepted or proposed way or street, between November 15<sup>th</sup> and April 15<sup>th</sup>, except in the case of an emergency, which shall be determined by the Highway Superintendent.

### **SECTION 5. PHOTOGRAPHS**

- 5.1 If required by the Highway Superintendent, sufficient number of photographs must be taken prior to the excavation to serve as reference to insure restoration of designated areas to their former condition.
- 5.2 The required photographs within the work limits shall be taken prior to the commencement of the work, and shall be of size, type, quality and number as determined by the Highway Superintendent.
- 5.3 All expenses incurred by the requirements of this Section shall be borne by the permittee.

### **SECTION 6. INSPECTOR**

- 6.1 A full time inspector shall be assigned to each trench opening or excavation site in any way or street, accepted or unaccepted, or proposed way or street, as determined by the Highway Superintendent.
- 6.2 The inspector's duties will be as determined by the Highway Superintendent. In general, the inspector will be the Town's agent who will ensure compliance of the work with the provisions of this permit.
- 6.3 The inspector will file daily written reports with the Highway Superintendent, or his designee, and will be responsible for reporting any violations of the provisions of this permit in said daily written reports.
- 6.4 Safety and the use of proper construction methods and/or techniques are not the responsibility of the inspector.
- 6.5 Failure of the Highway Superintendent to assign an inspector to a trench opening or excavation site, in any way or street, accepted or unaccepted, or proposed way or street, does not, in any way relieve the permittee of responsibility of full compliance with the provision of this permit.

- 6.6 The fee and incidental expenses of the inspector shall be borne by the permittee and payable, by check or money order, to the Town of Westford. Final approval will not be granted until all fees and expenses are paid in full.
- 6.7 The permittee is solely responsible for notifying the Highway Superintendent in writing of any scheduled testing of any work under permit at least forty-eight (48) continuous hours prior to the time of the scheduled test. Failure of the permittee to do so could result, if deemed necessary by the Highway Superintendent, in the retesting of those portions of the work for which the testing was unobserved by the Highway Superintendent or his duly authorized representative.

## **SECTION 7. SAFETY**

- 7.1 The permittee shall so prosecute his work that traffic, both pedestrian and vehicular, will be maintained over and through the work with a maximum of safety and convenience.
- 7.2 Every opening made in a street or way, accepted or unaccepted, or proposed street or way, shall be enclosed with sufficient barriers, sufficiently lighted all night, and posted with necessary signs to guard the public against all accidents, from the beginning to the completion of the work. All traffic control shall be in accordance with the U.S. Department of Transportation Manual of Uniform Traffic Control Devices. The responsibility of maintaining sufficient safety features around the work is solely that of the permittee, and in no way the responsibility of the Town of Westford.
- 7.3 Uniformed police shall be present to maintain two-way traffic in the roadway during the hours which work is being done under the permit.
  - 7.3.1 At least one (1) week prior to commencing construction the permittee shall give written notification with all pertinent information regarding the work to the Police Chief so that the Police Chief may prepare a roster of the Police Officers assigned to the excavation site.
  - 7.3.2 If in, his opinion and judgement, the Police Chief deems necessary the assigning of more than one (1) Police Officer to the excavation site, he may do so in the best interest of public safety.
  - 7.3.3 The permittee may request a waiver of the requirement for uniformed Police at the excavation site, in writing to the Police Chief, who must evaluate the request for a waiver and reply to the permittee in writing within five (5) days of receipt of request for waiver.
    - 7.3.3.1 If the Police Chief grants the waiver, and at some future time during the progress of the work the Police Chief visits the excavation site and deems necessary that a uniformed Police Officer be present to maintain two-way traffic in the roadway, the Police Chief may immediately rescind, suspend or modify this waiver.
    - 7.3.3.2 A request for a waiver does not relieve the permittee in any of the responsibility of having uniformed Police at the excavation site until said waiver has been granted in writing by the Police Chief.
  - 7.3.4 The fee and incidental expenses of the uniformed Police assigned to the excavation site shall be borne by the permittee and payable by check or money order, to the Town of Westford.

- 7.4 Pavement, fire hydrants, catch basins, and sidewalk areas shall be kept reasonably clear of excavated materials. Pedestrians must be able to walk by or a boardwalk must be constructed over any excavation authorized hereunder.
- 7.5 Proper access at all times should be maintained to both public and private property, with all driveways and streets to be open at night. In cases where necessity deems a roadway trench be kept open overnight, express written permission from the Highway Superintendent and written notification to the Police and Fire Departments will be necessary.
- 7.6 Any snow or ice condition that may occur during construction must be properly controlled through sanding and/or salting or plowing to points two hundred fifty (250) feet beyond either end limits of the construction area, unless otherwise decided by the Highway Superintendent or his duly authorized representative.
- 7.7 The permittee shall be responsible for instructing all employees in the principles of first aid and safety and in the specific operational procedure necessary to prevent accidents. The permittee shall provide for the availability and maintenance of adequate first aid supplies at the excavation site at all times.

## **SECTION 8. CONSTRUCTION STANDARDS**

- 8.1 Grassed areas. Any grassed areas, where entered and disturbed, either public or private, shall be properly compacted as hereinafter described and loamed to a minimum depth of six (6) inches, seeded and fertilized. The permittee is responsible for maintaining these areas until a satisfactory crop of grass has been grown to the satisfaction of the Highway Superintendent. The seed shall be sown only between the periods from April 15<sup>th</sup> to June 1<sup>st</sup> and from August 15<sup>th</sup> to October 15<sup>th</sup> or as directed by the Highway Superintendent.
- 8.2 Trees. The issuance of the permit does not authorize the trimming or removal of any trees or shrubs. The necessary removal of any tree shall be under the supervision of the Tree Warden or his duly authorized representative. Hand digging shall be required around the roots of trees and shrubs.
- 8.3 Fences. Any fence requiring removal for satisfactory prosecution of the work shall be removed and then reset by the permittee. The materials removed shall be utilized in the fence reset except, where necessary, new posts and bases shall be furnished by the permittee. Any materials damaged or lost during or subsequent to the removal shall be replaced by the permittee at his own expense. All new materials required shall be equal in quality and design to the materials in the present fences.
- 8.4 Saw cutting of pavement. Where required by the Highway Superintendent the roadway and or sidewalk pavement are to be saw cut to neat, true lines as directed. All newly resurfaced roadways shall be saw cut. Such cutting shall be to a depth below the pavement as to prevent tearing of the surface when the excavation is begun.
- 8.5 Maximum trench opening. The excavation is to be kept as neat as existing conditions permit and not more than one hundred fifty (150) feet to be left open at any time during working hours, or more than twenty (20) feet of trench to be left open overnight without written permission of the Highway Superintendent.

8.6 Roadway dust control. At the end of each day's work the street shall be left clean and dust free. The permittee shall furnish and apply calcium chloride as a dust control material at all locations where directed by the Highway Superintendent or his duly authorized representative. Calcium chloride shall be uniformly applied either by hand methods or by approved spreading devices at a rate of no more than one (1) pound per square yard.

8.7 Unsuitable material. All excavator material is to be discarded unless otherwise suitable, and if not suitable, to be replaced with the following material acceptable to the Highway Superintendent or equivalent; namely, 1/2" to 3/4" crushed processed gravel for the bed and also above the item placed in the excavation, for a depth not less than six (6) inches below the bottommost portion of the item and for a depth not less than six (6) inches above the topmost portion of the item, to be standard. Any excavated materials not required or not suitable for backfilling shall be removed from the site of the work and disposed of by the permittee. The permittee will not be allowed to store excess excavated material on the public highways.

All excavated material which is not to be used in a reasonable amount of time, as determined by the Highway Superintendent or his duly authorized representative for backfilling, shall be hauled away and stored, until such time as the material is to be used for backfilling, by the permittee.

8.8 Disposal of discarded materials. The permittee shall be held responsible for all discarded materials, rubbish and debris that are dumped or fall within the limits of the project. Such materials shall be removed from the site and disposed of at the permittee's expense.

8.9 Backfill materials. The backfill material used shall be of a quality satisfactory to the Highway Superintendent and shall be free from large or frozen lumps of wood, organic matter and other extraneous material and shall contain no boulders or broken ledge greater than one-half (1/2) cubic yard. All stones, boulders, or broken ledge greater than one (1) cubic foot in size must be a minimum one and one-half (1 1/2) feet above the topmost portion of the item placed in the excavation and a minimum of two (2) feet below the pavement surface grade. Flowable fill may be required at the decision of the Highway Superintendent.

8.10 Sheeting. Lumber sheeting shall be installed where trench excavation would cause failure to adjacent pavement. Unless otherwise directed, sheeting shall be driven to such depth as to be two (2) feet below normal excavation. The sheeting shall be securely and satisfactorily braced to withstand all pressures to which it may be subjected and shall be sufficiently tight to prevent any flow of water or material into the workspace. Upon completion of the work, sheeting shall be driven down or cut off eighteen (18) inches below pavement grade and left in place, or as directed by the Highway Superintendent. No sheeting may be left so as to create a possible hazard to the safety of the public, obstruction to flow of water, or a hindrance to traffic of any kind.

8.11 Compaction of backfill. Backfill shall be uniformly distributed in successive layers, each layer being thoroughly compacted before the succeeding layer is placed. The entire width of the trench shall be mechanically or hand tamped in six (6) inch lifts, a minimum of two (2) feet above the utility installation, and mechanically tamped the remainder of the fill in lift depths not greater than two (2) feet.

8.12 Grading rolling and finishing.

8.12.1 The word "approved" as appearing in Section 8 shall mean conforming to Massachusetts Highway Department specifications, as amended.

8.12.2 The trench in the street must be filled and temporarily resurfaced on the same day it is opened unless otherwise directed by the Highway Superintendent or his designee. The trench shall be backfilled with approved excavated materials to within nineteen and one-half (19 1/2) inches of the top. Eighteen (18) inches shall consist of approved gravel (Mass. Highway Spec. M 1.03.0 type b) and the remaining one and one-half (1 1/2) inches shall consist of temporary bituminous surface. Road surface shall be pre-cut to avoid damaging surfaces surrounding the trench. If the temporary road surface is not placed the first day, then as soon as directed by the Highway Superintendent, the gravel sub-base shall be excavated to the required grade in order to place one and one-half (1 1/2) inches of temporary bituminous surface. The temporary pavement shall be placed and raked to a uniform surface, rolled to the required thickness and to a grade that will match the existing bituminous road surface. The permittee shall maintain the temporary surfacing and shall promptly fill with similar material any depressions and holes that may occur so as to keep the surfacing in a safe and satisfactory condition for traffic. Temporary resurfacing must be a minimum of one and one-half (1 1/2) inches compacted thickness and may consist of either so-called "cold patch" or plant mixed hot-asphalt aggregate, all as produced in accordance with the standard specifications of the Massachusetts Highway Department. The bituminous concrete surface shall not be placed any earlier than 30 days or later than 90 days from the date of completion of the temporary surface with approval from the Highway Superintendent. The temporary sub-base shall be excavated to the grade required by this permit prior to placement of the bituminous concrete surface.

8.13 Restoration of permanent paving. The permittee shall remove and dispose of, in accordance with acceptable construction standards, all excavated material before proceeding with the remainder of the work and shall thoroughly compact the surface of the sub-base. Any broken or irregular edges of existing pavements shall be cut away in straight lines as directed by the Highway Superintendent, leaving a solid vertical face. The bituminous concrete base and top shall be laid and rolled in two (2) courses. The binder (base course) shall not be less than the existing roadway base course and shall not be less than two and one-half (2 1/2) inches in depth and the top course shall be one and one-half (1 1/2) inches in depth. The minimum total thickness of both courses, measured after rolling, shall be four (4) inches. The base course of the permanent pavement shall be placed and carefully raked to minimum surface and thoroughly rolled to the required thickness. Before placing the base course of the permanent pavement, the edge of the original bituminous surfacing shall receive an application of approved asphalt emulsion so that the new pavement material may be properly bonded to the existing pavement. All seams shall be sealed with an approved emulsified liquid asphalt and sand. The top course of the permanent paving shall be placed to a grade that will match the existing bituminous surface after rolling. The permanent paving shall not overlap the existing pavement and shall not have to be applied with a mechanical spreader unless otherwise directed by the Highway Superintendent. The permittee shall furnish, place, grade, and compact bituminous concrete pavement of Class I Type I-1 as shown and specified in the latest Massachusetts Highway Department Standard Specification for Highways and Bridges. Unless otherwise approved by the Highway Superintendent, a full width overlay will be required if more than thirty (30) feet of trench is cut in the roadway or greater than 50% of the roadway pavement width is disturbed

and in the case of all water and sewer line installations. In these cases, pavement overlay shall consist of one and one-half (1 1/2) inches of dense graded bituminous concrete and shall extend at least thirty (30) feet beyond the street opening. Excavations shall be made in open cut. Tunneling will be allowed by special permission of the Superintendent. All excavations and trenches shall be braced and sheathed when necessary as required by OSHA specifications. Street openings shall be maintained by the permittee for a period of two (2) years from the date of completion. No additional permits shall be issued to the permittee or contractor who has any outstanding street openings that have not been properly maintained. After new full width permanent surface is laid, street surface openings shall be prohibited for a period of three (3) years for major and minor arterial roads and two (2) years for collector and local roads, except in cases where a variance is obtained pursuant to Section 14 of this permit. The list of streets as classified by the Highway Superintendent shall be kept on file at the Highway Department. All permanent pavement markings, including but not limited to crosswalks, traffic and center lines that are obliterated or damaged during construction shall be repainted by or under the direction of the Highway Superintendent at the expense of the permittee.

- 8.14 Reinforced concrete pavement replacement. If reinforced concrete pavement is encountered during the work, it shall be replaced in accordance with acceptable construction standards or as directed by the Highway Superintendent.
- 8.15 Bituminous concrete sidewalk replacement. When work is performed in sidewalk areas, the entire sidewalk shall be replaced as follows. The entire trench area shall be thoroughly compacted to a point nine (9) inches below the finish grade. Six (6) inches of compacted processed gravel sub-base shall then be placed. Forms shall be installed where deemed necessary to assist in securing proper alignment and adequate compaction of the base and surface courses. Bituminous concrete Type I shall then be laid in two (2) courses to a depth of three (3) inches, each course consisting of one and one-half (1 1/2) inches. The walk shall have a pitch of three sixteenths (3/16) of an inch per foot of width to provide for proper drainage toward the gutter. The surface of each course shall be rolled with a self-propelled tandem roller weighing not less than one and one-half (1 1/2) tons and not more than five (5) tons. In places not accessible to a power roller, compaction shall be obtained by means of hand tampers weighing not less than fifty (50) pounds and having a tamping face not exceeding one hundred (100) square inches.
- 8.16 Concrete sidewalk replacement. Cement concrete sidewalks shall be repaired by making a new concrete block or blocks through the trench passes. Pre-formed expansion joints, when deemed necessary, will be installed against buildings, walls, steps, foundations or existing concrete blocks. The new cement concrete square shall consist of Air Entrained Class "A" (3,500 p.s.i.) mix. All concrete must be cured by covering with material in accordance with acceptable construction standards or as directed by the Highway Superintendent. All walks shall be laid over a minimum of twelve (12) inches of well compacted gravel. Cement concrete shall be treated with silicone or linseed oil sealer for salt damage prevention.
- 8.17 Bituminous concrete berm. The construction requirements, dimensions and cross sections of bituminous concrete berm shall be as directed by the Highway Superintendent.

- 8.18 Curb. When work is performed adjacent to granite curbing, extreme care is to be taken to insure that curbing remains undisturbed both horizontally and vertically. Curbing which has been chipped, marred or cracked during construction shall be replaced when so directed by the Highway Superintendent. Disturbed curbing shall be reset to line and grade by accepted methods. The permittee shall be held responsible for any settlement or horizontal movement of granite curb due to washout or trench settlement after completion of construction for a period of time acceptable to the Highway Superintendent.
- 8.19 Time limit for sidewalk paving. Sidewalk repaving and/or replacement must follow as close behind installation as conditions permit. Excessive lineal footage of sidewalk left unrepaired will not be allowed.
- 8.20 Disturbing existing utilities. The permittee shall exercise special care during excavation to avoid injury to underground structures such as water or gas mains, pipes, conduits, manholes, catch basins, etc. When necessary the permittee shall cooperate with representatives of public service companies in order to avoid damage to their structures by furnishing and erecting suitable supports, props, shoring and other means of protection. The permittee shall be liable for repair of any damage to such utilities, either public or private, to the satisfaction of the Highway Superintendent. The construction and/or reconstruction of any Town of Westford catch basin or manhole shall be in accordance with the Town of Westford standards.

### **SECTION 9. PRIVATE PROPERTY**

Liability for damage to private property abutting the construction and caused by the permittee, his agents or servant shall be borne solely by the permittee performing the work.

### **SECTION 10. LIABILITY**

The issuance of the permit to an individual utility or the utility company and/or its agents, or others as described in Section 1, paragraph 1.1 of this permit, shall constitute an agreement with the Town of Westford whereby the utility or utility and/or its agents, and individual, or others shall indemnify, and save harmless the Town of Westford against all claims for damages for injuries to persons or property, and against all costs, suits, expenses and losses occasioned by or arising from entering streets and/or ways and from occupancy and use of said streets and/or ways, and further agree to pay all costs and damages which may be recovered against the Town of Westford, by reason of entering said street and/or ways on account of occupancy of said premises, and shall further be required to provide insurance therefor unless otherwise determined by the Highway Superintendent.

### **SECTION 11. ENFORCEMENT PROVISIONS: ORDERS**

- 11.1 If an examination of the work reveals that it does not comply with or violates the provisions of this permit, the Highway Superintendent shall notify and order in writing, the permittee and its duly authorized supervisor at the work site who shall take such appropriate measures as necessary to assure compliance with the provisions of this permit.
- 11.2 If a further examination of the work, not less than forty-eight (48) continuous hours after the issuance of orders, reveals that no positive action and/or appropriate measures are or

were being taken by the permittee or its duly authorized supervisor at the work site to assure compliance with the provisions of this permit, the Highway Superintendent may rescind, suspend or modify, through the imposition of conditions, the permit.

- 11.3 Every order issued to enforce the provisions of this permit shall be in writing and shall be served on the permittee and its duly authorized supervisor at the work site and/or all persons responsible for the violation of this permit.
- 11.4 Every order issued to enforce the provisions of this permit shall include a statement of the violation or defect, shall allot a reasonable time for any action necessary to effect compliance, and may suggest action which, if taken, will effect compliance with this permit.

## **SECTION 12. HEARINGS**

- 12.1 Any person to whom any order to comply with the provisions of this permit is issued or any person who objects to the issuance of a variance may request a hearing before the Highway Superintendent or his designee by filing a written application within ten (10) days of the receipt of the order or within ten (10) days of the filing of notice of the granting of the variance.
- 12.2 Upon receipt of written application, the Highway Superintendent, or his designee shall establish a time and place for such hearing and inform the petitioner thereof in writing. The hearing shall be commenced not later than thirty (30) days after the day on which the application was filed.
- 12.3 At the hearing the petitioner shall be given the opportunity to be heard and to show why the order or variance should be modified or withdrawn.
- 12.4 After the hearing, the Highway Superintendent shall sustain, modify or withdraw the order or variance and may rescind, suspend or modify through the imposition of conditions, the permit, and shall inform the petitioner in writing of the decision.
- 12.5 Every notice, order and other record prepared by the Highway Superintendent or his designee in connection with the hearing shall be entered as a matter of public record in the office of the Highway Superintendent.

## **SECTION 13. PENALTY**

- 13.1 Any permittee who violates or refuses to comply with any provision of this permit and orders hereunder promulgated shall forfeit and pay to the use of the Town of Westford a sum of fifty (\$50.00) dollars for each violation.
- 13.2 Each day, or portion of a day, that any violation is allowed to continue shall constitute a separate violation of this permit.

## **SECTION 14. VARIANCE**

- 14.1 The Highway Superintendent upon his own initiative or upon application to him by any individual, utility or others as described in Section 1, paragraph 1.1, after due notice and public hearing, may vary any provisions of this permit as they deem necessary with

respect to any particular case when, in their opinion, the enforcement thereof would do manifest injustice or cause due hardship, provided that his decision shall not conflict with the spirit of this permit. The burden of proof of the manifest injustice or causes of hardship shall be the responsibility of the applicant.

- 14.2 Variances, when granted, shall be in writing and shall be effective for not more than one (1) year. Notice of the grant of a variance shall be filed with the Town Clerk within ten (10) days after the variance has been granted.

#### **SECTION 15. SEVERABILITY**

Each of these sections shall be construed as separate to the end that if any section or paragraph, sentence, clause or phrase thereof shall be held invalid for any reason, the remainder of that section and all other sections of this permit shall continue in full force.

#### **SECTION 16. MUNICIPAL DEPARTMENT**

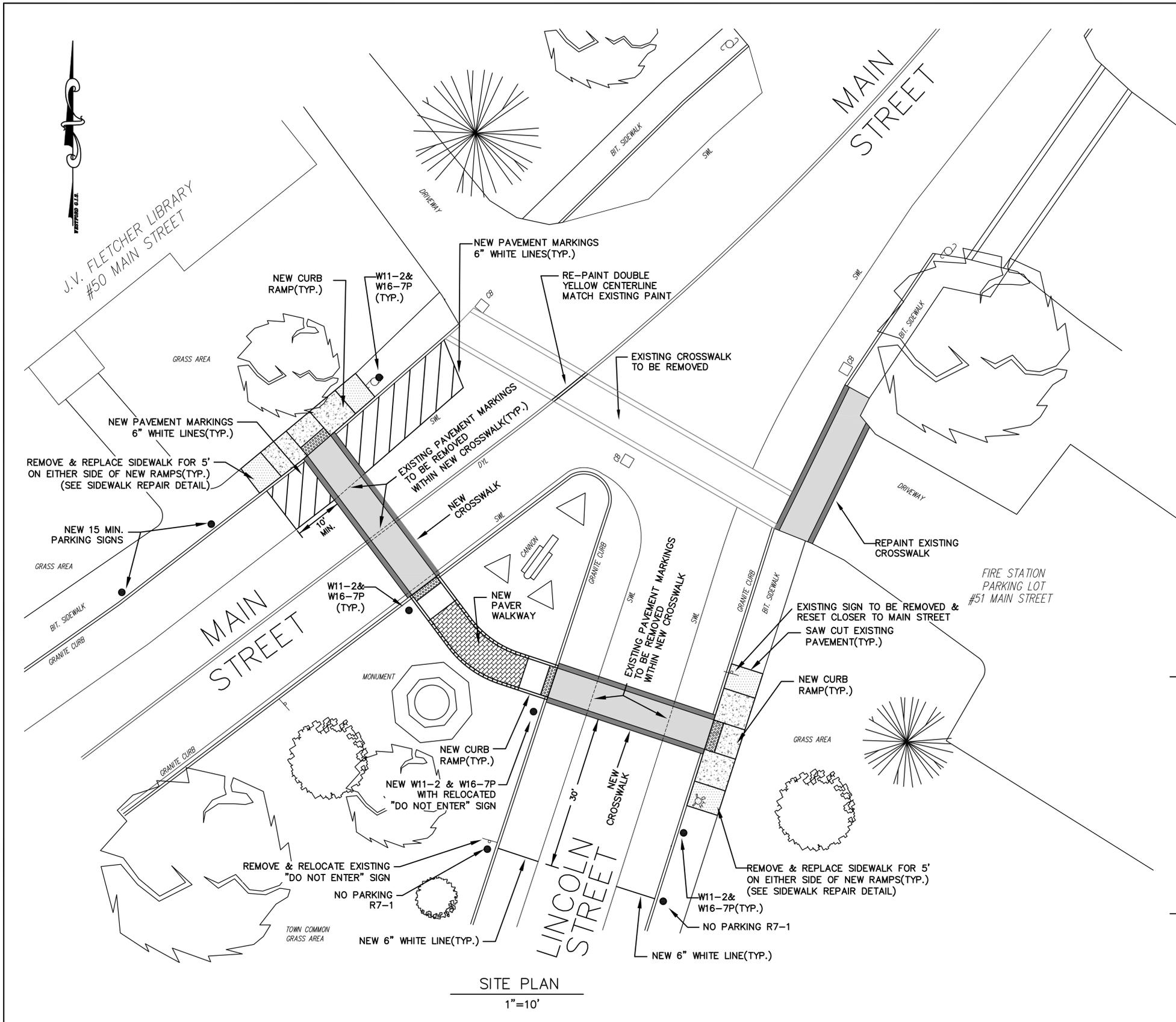
Municipal Departments of the Town of Westford shall be exempt from the fees associated with this permit, but shall conform to all other aspects of this permit.

#### **SECTION 17. INCONSISTENCIES**

All provisions of the by-laws of the Town of Westford, as amended which are not inconsistent with this permit, shall continue in effect.

#### **SECTION 18. DISCHARGE OF WATER ON STREETS**

No water shall be intentionally discharged onto or into any public ways or sidewalks of the Town so as to cause a dangerous and/or defective condition.



**GENERAL NOTES:**

1. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS "STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES" LATEST EDITION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A ROAD OPENING PERMIT FROM THE WESTFORD HIGHWAY DEPARTMENT, INCLUDING THE ESTABLISHMENT OF A BOND.
3. THERE SHALL BE NO CHANGES MADE IN THIS PLAN WITHOUT THE WRITTEN PERMISSION OF THE WESTFORD ENGINEERING DEPARTMENT.
4. ALL ERRORS, OMISSIONS, AND CHANGE OF CONDITIONS AT THE SITE SHALL BE BROUGHT TO THE ATTENTION OF THE WESTFORD ENGINEERING DEPARTMENT PRIOR TO PERFORMING THE RELATED WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY LOCATING AND COORDINATING THE PROPOSED CONSTRUCTION WITH DIG-SAFE, THE TOWN OF WESTFORD, AND ANY OTHER APPLICABLE UTILITY COMPANY AND FOR MAINTAINING THE EXISTING UTILITY SYSTEM IN SERVICE. DIG SAFE MUST BE NOTIFIED AT (888) 344-7233 A MINIMUM OF 72 HOURS PRIOR TO ANY EXCAVATION.
6. THE CONTRACTOR SHALL COORDINATE ALL INSPECTIONS WITH THE WESTFORD ENGINEERING DEPARTMENT. A MINIMUM OF 24 HOURS ADVANCE NOTICE IS REQUIRED FOR ALL INSPECTIONS.
7. ALL EXCAVATIONS SHALL BE DRY PRIOR TO BACKFILLING AND NO FILL SHALL BE PLACED DURING A RAIN EVENT.
8. ALL DISTURBED AREAS SHALL BE LOAMED WITH 4" OF TOP SOIL AND SEEDED ONCE CONSTRUCTION IS COMPLETE. ALL SEEDING SHALL TAKE PLACE BETWEEN APRIL AND MAY OR AUGUST THROUGH OCTOBER.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING THE PROPERTY TO ITS ORIGINAL CONDITION ONCE CONSTRUCTION IS COMPLETE.
10. ALL EXISTING PAVEMENT THAT REQUIRES REMOVAL SHALL BE SAW CUT PRIOR TO PERFORMING WORK IN ORDER TO CREATE A SMOOTH, STRAIGHT JOINT. ALL TRANSITIONS BETWEEN NEW AND OLD PAVEMENTS SHALL BE FLUSH WITH NO LIPS THAT WOULD PRESENT A TRIP HAZARD FOR PEDESTRIANS.
11. THE EXACT LOCATION OF ALL NEW RAMPS, WALKWAYS, SIGNS, ETC. SHALL BE STAKED OUT BY THE TOWN ENGINEER AND REVIEWED WITH THE CONTRACTOR IN THE FIELD PRIOR TO CONSTRUCTION.
12. ANY NEW GRANITE CURB USED MUST MATCH THE EXISTING SIZE, DIMENSIONS AND REVEAL OF THE EXISTING CURB UNLESS OTHERWISE NOTED.
13. ALL PAVEMENT MARKINGS SHALL CONFORM WITH SECTION 860 OF THE MASSDOT SPECIFICATIONS.
14. ALL WORK SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA) & THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD (AAB) REGULATIONS.
15. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A SAFE WORK ZONE THROUGHOUT CONSTRUCTION.
16. THE CONTRACTOR SHALL PROVIDE THE ENGINEERING DEPARTMENT WITH A MATERIAL SAMPLE OF THE CONCRETE PAVERS AND GRANITE COBBLES ASSOCIATED WITH THE NEW WALKWAY FOR APPROVAL PRIOR TO ORDERING THE MATERIALS.
17. THERE IS AN IRRIGATION SYSTEM AND UNDERGROUND ELECTRICAL UTILITIES WITHIN THE TOWN COMMON HOWEVER THE EXACT LOCATION OF EACH IS UNKNOWN. THE CONTRACTOR SHALL LOCATE AND PROTECT THE IRRIGATION SYSTEM AND ELECTRICAL UTILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES THAT MAY OCCUR DURING CONSTRUCTION. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR RELOCATING ANY PORTION OF THE IRRIGATION SYSTEM OR ELECTRICAL UTILITIES THAT CONFLICT WITH THE IMPROVEMENTS SHOWN ON THIS PLAN.
18. THE CONTRACTOR SHALL ATTEND A PRE-CONSTRUCTION MEETING WITH THE TOWN ENGINEER PRIOR TO BEGINNING ANY WORK.
19. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL SIGNS PRIOR TO ORDERING.
20. REMOVAL OF PAVEMENT MARKINGS SHALL BE DONE BY MICRO-MILLING THE PAINT FROM THE EXISTING ROADWAY SURFACE. OTHER METHODS OF REMOVAL MAY BE ACCEPTABLE WITH PRIOR APPROVAL FROM THE TOWN ENGINEER. ALL REMOVAL ACTIVITIES SHALL MINIMIZE DISTURBANCE TO THE EXISTING PAVEMENT SURFACE.

**EXISTING CONDITIONS LEGEND**

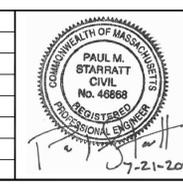
- TREES & SHRUBS
- FIRE HYDRANT
- CATCH BASIN
- SINGLE WHITE EDGE LINE
- DOUBLE YELLOW CENTERLINE
- SIGN
- UTILITY POLE
- VERTICAL GRANITE CURB
- BIT. BITUMINOUS CONCRETE

**PROPOSED CONDITIONS LEGEND**

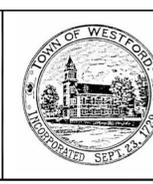
- NEW CONCRETE RAMP
- NEW DETECTABLE WARNING PANEL
- NEW SIDEWALK REPAIR
- NEW PAVEMENT MARKINGS
- NEW PAVER WALKWAY
- NEW CROSSWALK PAINT
- NEW SIGNS

**SITE PLAN**  
1"=10'

NO.	DATE	DESCRIPTION
1	12/2010	RAISED CROSSWALK AT LINCOLN STREET & PEDESTRIAN BULBS
2	2/1/2011	UPDATED PLAN WITH ADDITIONAL DETAIL
3	6/7/2011	UPDATED PLAN WITH ADDITIONAL DETAIL
4	7/15/2011	UPDATED PLAN FOR BIDDING
5	7/19/2011	UPDATED PER HIGHWAY SUPERINTENDENT COMMENTS
REVISIONS		



**TOWN CENTER  
WESTFORD,  
MASSACHUSETTS**



**TOWN OF  
WESTFORD, MASSACHUSETTS  
ENGINEERING DEPARTMENT**  
28 North Street • Westford, Massachusetts • 01886  
(978) 692-5520

SCALE: 1" = 10'

PROJECT NAME:  
TOWN CENTER SIDEWALK

DRAWING NAME:  
CENTER SIDEWALK BID PLAN.DWG

DESIGNED BY:  
PAUL STARRATT, P.E.

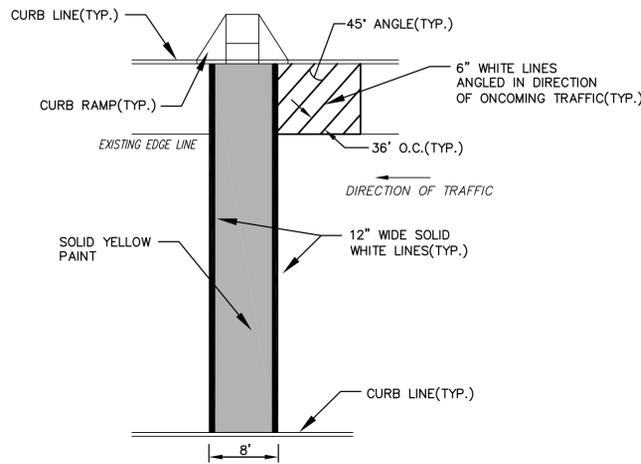
DRAWN BY:  
JEREMY DOWNS, P.E.

DATE:  
APRIL 2010

**PEDESTRIAN SAFETY  
IMPROVEMENT PLAN**

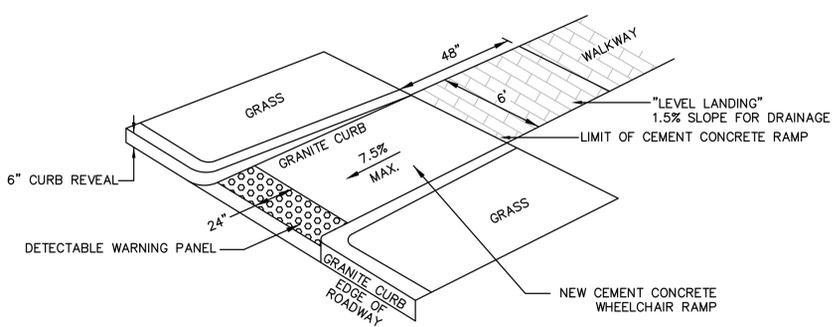
**CONSTRUCTION  
PLAN**

SHEET  
1 OF 2

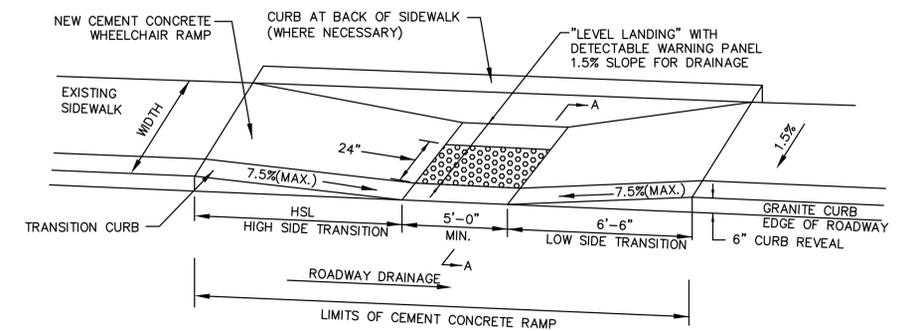


- NOTES:**
- ALL PAVEMENT MARKINGS SHALL CONFORM TO SECTION 860 OF THE MASSDOT SPECIFICATIONS.
  - SOLID YELLOW PAINT SHALL BE FAST DRYING YELLOW TRAFFIC PAINT THAT CONFORMS WITH M7.01.11.
  - ALL WHITE PAVEMENT MARKINGS SHALL BE MADE WITH THERMOPLASTIC REFLECTORIZED PAINT THAT CONFORMS WITH M7.01.03. THE PAINT SHALL BE REFLECTORIZED WITH GLASS BEADS FOR NIGHT VISIBILITY. GLASS BEADS SHALL CONFORM WITH M7.01.07.

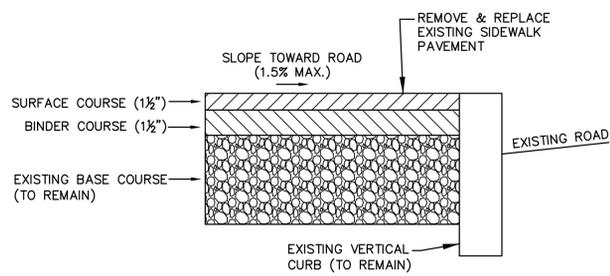
**CROSSWALK & PAVEMENT MARKING DETAIL**  
N.T.S.



**WHEELCHAIR RAMP (NEW WALKWAY)**  
N.T.S.

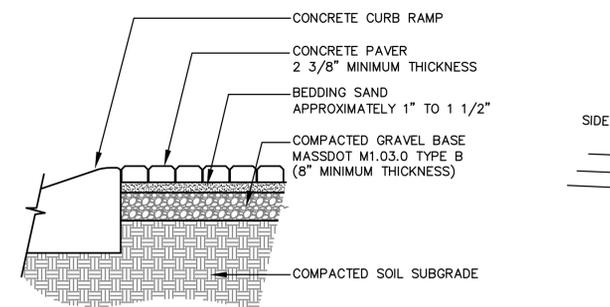


**WHEELCHAIR RAMP (EXISTING SIDEWALKS)**  
N.T.S.

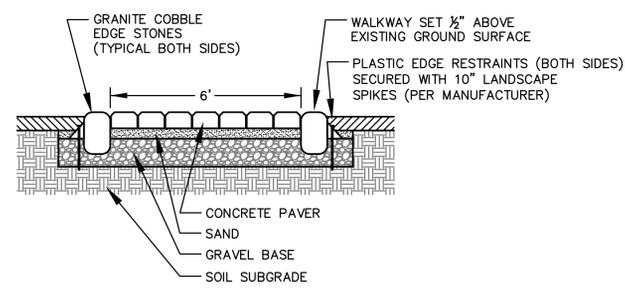


- NOTES:**
- THE EXISTING SIDEWALK PAVEMENT SHALL BE REMOVED AND RE-PAVED WITH HOT MIX ASPHALT IN THE LOCATIONS SPECIFIED ON THE SITE PLAN IN ACCORDANCE WITH THE ABOVE DETAIL.
  - THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE EXISTING PAVEMENT IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REQUIREMENTS.
  - THE EXISTING GRAVEL BASE COURSE SHALL BE RE-GRADED AS NECESSARY AND COMPACTED PRIOR TO THE PLACEMENT OF THE NEW BINDER AND SURFACE COURSES.

**SIDEWALK REPAIR DETAIL**  
N.T.S.



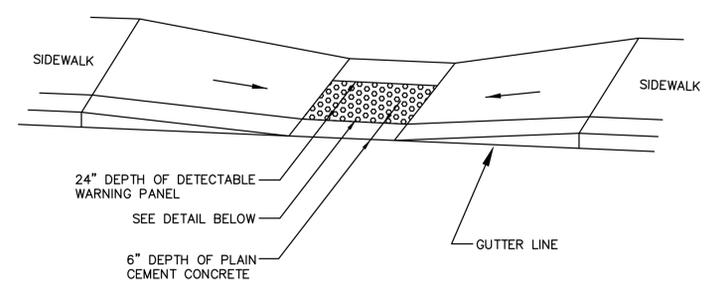
**LONGITUDINAL SECTION**



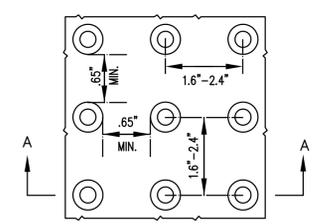
**CROSS SECTION**

- NOTES:**
- PAVER DIMENSIONS SHALL MEASURE 4 1/2" X 6 1/2" WITH A 2 3/8" THICKNESS.
  - PAVER COLOR SHALL BE QUARRY BLEND.
  - THE PAVERS SHALL BE INSTALLED IN A RUNNING BOND PATTERN. THE DIRECTION OF THE RUNNING BOND PATTERN SHALL BE DETERMINED IN THE FIELD WITH THE TOWN ENGINEER PRIOR TO CONSTRUCTION.
  - PAVERS SHALL BE NEWPORT COBBLE CONCRETE PAVERS AS MANUFACTURED BY IDEAL CONCRETE BLOCK COMPANY OR AN APPROVED EQUAL.
  - POLYMERIC SAND SHALL BE USED TO FILL PAVEMENT JOINTS. THE POLYMERIC SAND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES AND SHALL NOT STAIN THE PAVERS.
  - REMOVE ALL EXISTING TOP SOIL AND UNSUITABLE SOIL WITHIN THE LIMITS OF THE NEW WALKWAY. THE TOWN ENGINEER SHALL INSPECT THE EXISTING SUB-GRADE PRIOR TO THE PLACEMENT OF THE GRAVEL BASE.
  - THE NEW WALKWAY SHALL HAVE A 1% CROSS SLOPE FOR DRAINAGE PURPOSES.
  - THE CONCRETE PAVERS AND NEW WALKWAY CONSTRUCTION SHALL COMPLY WITH ADA & AAB REGULATIONS.
  - THE NEW CONCRETE PAVEMENT WALKWAY SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION PROCEDURES.

**NEW WALKWAY DETAIL**  
N.T.S.



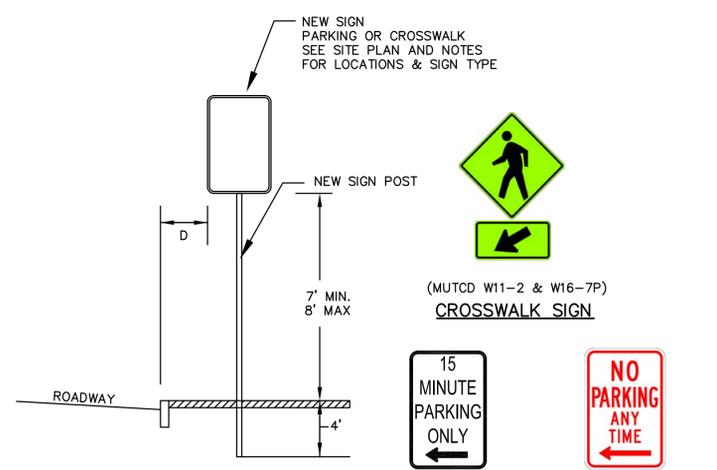
**TYPICAL INSTALLATION**



**DETAIL OF DETECTABLE WARNING PANEL**

- NOTES:**
- PANELS MAY BE CONCRETE PRECAST OR CAST IN PLACE OR OTHER SUITABLE MATERIAL PERMANENTLY APPLIED TO THE RAMP AS APPROVED BY THE TOWN ENGINEER.
  - DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH ADJACENT WALKING SURFACES EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT. THE COLOR SHALL BE DETERMINED BY THE TOWN ENGINEER PRIOR TO CONSTRUCTION.
  - SHOP DRAWINGS OF THE PANELS SHALL BE SUBMITTED TO THE TOWN ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.

**DETECTABLE WARNING PANEL FOR WHEELCHAIR RAMPS**  
N.T.S.



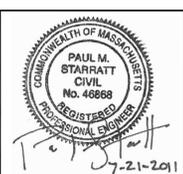
- NOTES:**
- ALL SIGNS, POSTS, AND BRACKETS SHALL COMPLY WITH MASSDOT & MUTCD REQUIREMENTS INCLUDING REFLECTIVITY STANDARDS.
  - SIGN POSTS SHALL BE 4"x4" PT LUMBER PAINTED WITH CAPE COD GRAY TO MATCH EXISTING SIGNS IN TOWN COMMON AREA.
  - THE SETBACK BETWEEN THE NEW SIGNS & THE CURB LINE (DIMENSION "D") SHALL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION.
  - THE PEDESTRIAN CROSSING SIGNS (MUTCD W11-2 & W16-7P) SHALL BE FLUORESCENT YELLOW-GREEN. NO PARKING SIGNS SHALL BE RED LETTERING ON WHITE BACKGROUND. 15 MINUTE PARKING SIGNS SHALL BE GREEN LETTERING ON WHITE BACKGROUND.
  - THE CONTRACTOR SHALL COORDINATE THE DIRECTION OF THE VARIOUS SIGN ARROWS WITH THE TOWN ENGINEER PRIOR TO ORDERING THE SIGNS.

**SIGN DETAILS**  
N.T.S.

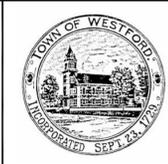
- VERTICAL GRANITE NOTES:**
- SAW CUT NEAT LINE 6" FROM CURB LINE AND REMOVE BINDER, BASE AND STONE REPLACE WITH CEMENT CONCRETE.
  - ANY CLASS CEMENT CONCRETE THAT IS ACCEPTABLE TO THE DEPT. UNDER SECTION M4 OF THE 1995 STANDARD SPECIFICATIONS; ALL TEST REQUIREMENTS ARE WAIVED. BITUMINOUS CONCRETE IS NOT TO BE USED AS A SUBSTITUTE.
  - PAYMENT FOR CEMENT CONCRETE WILL BE INCLUDED IN THE PRICE.
  - CEMENT CONCRETE SHALL BE BROUGHT TO A LEVEL APPROXIMATELY 1/2" BELOW TOP OF BINDER COURSE TO CREATE A LIP.

**VERTICAL GRANITE CURB**  
N.T.S.

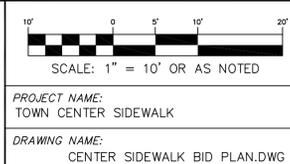
NO.	DATE	DESCRIPTION
1	12/2010	RAISED CROSSWALK AT LINCOLN STREET & PEDESTRIAN BULBS
2	2/1/2011	UPDATED PLAN WITH ADDITIONAL DETAIL
3	6/7/2011	UPDATED PLAN WITH ADDITIONAL DETAIL
4	7/15/2011	UPDATED PLAN FOR BIDDING
5	7/19/2011	UPDATED PER HIGHWAY SUPERINTENDENT COMMENTS



**TOWN CENTER WESTFORD, MASSACHUSETTS**



**TOWN OF WESTFORD, MASSACHUSETTS ENGINEERING DEPARTMENT**  
28 North Street Westford, Massachusetts 01886 (978) 692-5520



DESIGNED BY: PAUL STARRATT, P.E.  
DRAWN BY: JEREMY DOWNS, P.E.  
DATE: APRIL 2010

**PEDESTRIAN SAFETY IMPROVEMENT PLAN**

**DETAIL SHEET**  
SHEET 2 OF 2