



# Peabody Municipal Light Plant

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Community Owned. Not for profit. It's Ours.

## LEGAL NOTICE

Pursuant to Massachusetts General Laws Chapter 30 §39M, the Peabody Municipal Light Plant is asking for bids on:

### In-Line Inspection of 10" Natural Gas Pipeline – 12/21/2016

Specifications and bid documents may be obtained at the Peabody Municipal Light Plant (PMLP), 201 Warren Street Extension, Peabody, Massachusetts or at our website <http://pmlp.com/bids.html>

Bids will be received at the PMLP office at 201 Warren St. Ext., Peabody, MA 01960 until **11:30 a.m.**, Thursday, January 12, 2017 at which time they will be publicly opened and read. Bids must be accompanied by a completed bid form.

The Peabody Municipal Lighting Commission reserves the right to reject any or all bids as authorized by law.

PEABODY MUNICIPAL LIGHT PLANT

  
\_\_\_\_\_  
GLENN TRUEIRA, MANAGER

GT/pas

ADV.: MA Central Register  
The Salem News – 12/21/2016  
Dodge Report  
PMLP Website

BID PACKAGE & SPECIFICATIONS

APPROVED BY:   
\_\_\_\_\_  
Division Manager



## **Peabody Municipal Light Plant**

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# **REQUEST FOR BIDS**

**For**

**In-Line Inspection (ILI)**

**Of**

**PMLP’s 10” Natural Gas Pipeline – 12/21/16**

**Peabody Municipal Light Plant (PMLP)**

201 Warren Street Extension

Peabody, MA 01960

Prepared by TRI-MONT, Engineering Co.  
for Peabody Municipal Light Plant (PMLP)

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## **SECTION 1 - INSTRUCTIONS TO BIDDERS**

1. Peabody Municipal Light Plant (PMLP) will receive bids for [In-Line Inspection of PMLP’s 10” Natural Gas Pipeline – 12/21/2016] until 11:30 a.m., January 12, 2017 at its Offices at 201 Warren Street Ext., Peabody, Massachusetts, 01960, at which time the bids will be publicly opened and read.
2. **BIDS --**
  - A. All bids must be submitted along with the completed Bid Form provided in these specifications. If additional space is required, it shall be so noted on a supplemental attachment under the bidder's letterhead and entitled "Remarks". This attachment shall become a part of the Bid Form.
  - B. The Bid Form shall be without interlineations, alterations, erasures or changes in phraseology.
  - C. The Bid Form shall be enclosed in a sealed envelope, clearly marked on the outside with the bidders name and address, and the following bold lettering: "***BID: In-Line Inspection of PMLP’s 10” Natural Gas Pipeline- 12/21/2016***".

Three copies of all bids must be submitted in a sealed envelope properly marked with the Title of the bid and mailed/delivered to:

Peabody Municipal Light Plant  
Attn: Glenn Trueira, Manager  
201 Warren Street Extension  
Peabody, MA 01960

- D. The Bid Form and supplemental sheets identified on same shall constitute, and shall hereinafter be termed the "Bid".
- E. The firm submitting a bid shall assume the responsibility of making a careful examination of the specifications and related documents and all other matters that may affect cost and performance. In making said examination, the bidder shall procure all pertinent information concerning **prevailing wage rates** to be paid on each job as determined by the Massachusetts Office of the Attorney General. The bidder shall pay the aforesaid rates and shall indemnify and hold harmless the Peabody Municipal Light Plant, its agents, servants, and employees and the Commissioners jointly and severally as they constitute a duly elected board by the citizens of the City of Peabody for the failure to pay the prevailing wage as listed at the time of the awarding of a contract as well as any other applicable provision of Massachusetts General Laws Chapter 149 attendant thereto. Bidders are required, at their own expense, to comply with all statutes, including, but not limited to, the aforesaid prevailing wage rate, regulations, ordinances and tests which may be applicable.

## REQUEST for BIDS – In-Line Inspection of PMLP’s 10” Natural Gas Pipeline

- F. Each firm shall submit with their bid, a bid bond or a certified check equal to five percent (5%) of the lump sum for project bid prices or five percent (5%) of the total annual cost for per unit bid prices. **If the bid bond or certified check is not included, bids shall be rejected.** (The bid bond will be returned within fourteen (14) days after the award of contract).
- G. Each firm shall submit with their bid evidence of their experience and qualifications to satisfactorily fulfill the specifications and requirements.
- H. Each firm submitting a bid shall notify PMLP, in writing, if they find any discrepancies or omissions from the specifications, or if in doubt as to their meaning. If an explanation is necessary, a reply will be made by an addendum issued to all firms who have received specifications. PMLP will not give verbal answers to any inquiries regarding the meanings of the specifications. All inquiries should be addressed to PMLP, Attention: Glenn Trueira, Manager, 201 Warren Street Ext., Peabody, Massachusetts, 01960.

### **3. CHANGES IN SPECIFICATIONS --**

PMLP may advise all firms who have received specifications, by means of addenda, of any changes in the Specifications during the bid period. All such changes shall become a part of the Specifications as if originally included therein.

### **4. SITE INSPECTIONS --**

PMLP is not responsible for any inspections, visits, etc., that may be made to any sites or potential sites in connection with this work. The coordination, approval, and expense for such inspections, visits, etc., is the responsibility of the bidder. Inspections can be scheduled by appointment only Monday through Friday by contacting Bryan Howcroft at 978-573-1239. The site is located at 58 Pulaski Street, Peabody, MA as shown in Append 7.1 on the General Location Plan. NOTE: The facility has controlled access.

### **5. PRICES --.**

All prices and applicable discounts will be firm for a minimum of sixty (60) days. Bidders must include on a separate sheet, any discount schedule which may be applicable to this purchase. The bid prices shall include everything necessary for fulfillment of the Contract, including delivery and unloading (at PMLP jobsite, Peabody, MA), except as may be otherwise expressly provided in the Contract Documents.

All bids must be lump sum priced. Each bid shall contain an all-inclusive rate per hour to accommodate any additions or deletions to the scope of work. Each bid shall contain an all-inclusive rate per hour for each hour of overtime incurred due to scope changes.

### **6. ESCALATOR CLAUSES – N/A**

## REQUEST for BIDS – In-Line Inspection of PMLP’s 10” Natural Gas Pipeline

### **7. EXECUTION OF CONTRACT --**

- A. The Successful Firm will be notified of the award of the Contract in writing and shall properly and promptly execute a Contract on the PMLP Contract Form, within fifteen (15) days after receiving notification of the Award of the Contract.
- B. The Successful Firm is required to provide a performance bond equal to the total bid price. This requirement will be included in the contract language.
- C. **The Successful Firm is required to provide a "Certificate of Insurance"**, in accordance with the specifications of this bid, upon the execution of said contract. PMLP strictly prohibits commencement of work under said contract until a proper "Certificate of Insurance" has been received by PMLP.
- D. The Contract, when executed, shall be deemed to include the entire agreement between the parties. The Seller shall not be entitled to any modifications resulting from unauthorized claims or statements made by representatives of PMLP or other persons.
- E. Upon execution of the Contract, the successful Firm must start the project as soon as possible and complete the project within fifteen (15) days of the start date, unless otherwise approved. Scheduling the work will require coordination with the supporting Pipeline/Site Contractor, PMLP, and TGP.

### **8. TERMS AND CONDITIONS --**

The terms and conditions of the contract shall also be in accordance with the attachment entitled "PMLP's Terms and Conditions." Any exceptions to these terms and conditions must be clearly identified in the bid under the category of exceptions to the Purchaser’s terms and conditions.

### **9. DEFINITIONS --**

The names and words Peabody Municipal Light Plant, PMLP, Purchaser, Owner, and Buyer as used in these documents are synonymous. The names and words, Bidder, ILI Contractor, Firm, Seller, Vendor, and Manufacturer as used in these Contract documents are synonymous.

### **10. RIGHT TO ACCEPT OR REJECT BIDS --**

PMLP reserves the right to accept or reject bids or portions thereof, and to reject all bids, to waive any formalities in the process, if it is deemed to be in the best interests of PMLP. Bids received after the public opening date and time shall not be accepted.

**REQUEST for BIDS – In-Line Inspection of PMLP’s 10” Natural Gas Pipeline**

**11. ITEMS CONTAINED IN THE BID PACKAGE --**

- A. Legal Notice
- B. Instructions to Bidders
- C. PMLP's Terms and Conditions
- D. Sample Contract
- E. Certificate of Non-Collusion
- F. Tax Compliance Certification
- G. Bid Form
- H. In-Line Inspection Specifications  
including Attachments and Prevailing Wage rates

**--- END OF SECTION---**

**SECTION 2 - PMLP’S TERMS AND CONDITIONS**  
**LABOR SERVICES CONTRACT**

**1. ENTIRE AGREEMENT AND AMENDMENTS**

The terms and provisions of this Contract, together with the terms and provisions of all documents incorporated herein by reference, constitute the full and entire Contract between the Purchaser and the Seller concerning the matters set forth herein, and no other agreement or understanding of any nature whatsoever has been entered into or will be recognized, nor has the Purchaser made any inducements or representations to the Seller except as expressly stated in this Contract. No modification of this Contract shall be binding or have any force or effect on either party, unless reduced to writing and signed by the Purchaser and the Seller, or the authorized representatives of same. No provision of this Contract is intended or shall be construed to be for the benefit of any third party.

**2. CHANGES AND/OR AMENDMENTS**

The Purchaser shall have the right, from time to time during the terms of this Contract, by written notice to the Seller, to make changes in or additions to drawings, specifications or instructions for the work covered in the Specifications, including the right to expand, decrease or limit the scope and nature of the work to be undertaken, or redirect work already in progress.

Any change to this contract requires written authorization signed by both purchaser and seller prior to any extra work performance. All change orders which result in an increase or decrease in project cost shall be signed by the Manager prior to commencement of any work under said change order. Work performed but not specified as part of this contract shall be considered as included in the original contract price unless said work was performed after seller received written authorization signed by the purchaser.

**3. PERFORMANCE**

Time is of the essence in this Contract. If the Seller shall fail in any respect to prosecute the work with promptness and diligence, the Purchaser may cancel this Contract in part or in its entirety without liability for the cancelled part(s).

**4. PATENTS, TRADEMARKS, COPYRIGHTS**

It is mutually understood and agreed that the Contract includes all royalties and costs arising from patents, trademarks and copyrights in any way involved in the work. If the Seller, or its sub-vendors/sub-contractors, is required or desires to use any design, device, material or process covered by letters, patent, trademark, or copyright, the Seller indemnifies and holds harmless the Purchaser from any and all claims for infringement by reasons of the use of any such patented design, device, material or process to be performed under the Contract and shall indemnify the Purchaser for any costs, expenses and damages which they may be obligated to pay by reason of such infringement, at any time during the prosecution or after the completion of the work. The Purchaser shall give to the Seller notification of the source of any such suit or proceeding and shall furnish the Seller (at the Seller's expense) all needed information,



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authority and assistance to enable the Seller to defend the same. If any material, equipment, or work is in any such suit or proceeding held to constitute infringement or its use is enjoined, the Seller, within a reasonable time, shall either secure for the Purchaser, at the Seller's own expense, the right to continue using said material, equipment or work by suspension of the injunction, by procuring for the Purchaser a license, or otherwise, or shall at the Seller's own expense and as the Purchaser may elect, replace such material, equipment or work with non-infringing material, equipment or work, or modify it so that it becomes non-infringing, or remove such infringing material, equipment or work, and refund the sums paid therefore by the Purchaser all without injury or damage to any other property of the Purchaser.

**5. INDEPENDENT CONTRACTOR RELATIONSHIP**

The Seller shall perform work as an independent contractor.

**6. INSPECTION EXPEDITING**

All material, equipment and/or work to be supplied under this contract is subject to inspection and/or expediting by the Purchaser or its representative. The Seller shall allow the Purchaser or its representative free access to Seller's works and provide free access to the works of Seller's sub-vendors/sub-contractors.

**7. COMPLIANCE WITH LAW**

The Seller will comply with all applicable federal, state, and local laws, rules and regulations. Compliance includes, but is not limited to, the Occupational Safety and Health Act of 1970, OSHA Regulations, APPA Safety Manual, Executive Order 11246 (Equal Opportunity) and guidelines established by the Council on Wage and Price Stability, all as amended periodically.

Seller agrees to comply with the provisions of the Occupational Safety and Health Act of 1970 and the Standards and Regulations issued thereunder and certifies that all items furnished under this Contract will conform to and comply with said standards and regulations. Seller further agrees to indemnify and hold harmless the Purchaser from all damages assessed against the Purchaser as a result of the seller's failure to comply with the Act and the standards issued thereunder and for the failure of the items furnished under this Contract to so comply.

The bidder shall procure all pertinent information concerning **prevailing wage** rates to be paid on each job as determined by the Massachusetts Office of the Attorney General. The bidder shall pay the aforesaid rates and shall indemnify and hold harmless the Peabody Municipal Light Plant, its agents, servants, and employees and the Commissioners jointly and severally as they constitute a duly elected board by the citizens of the City of Peabody for the failure to pay the prevailing wage as listed at the time of the awarding of a contract as well as any other applicable provision of Massachusetts General Laws Chapter 149 attendant thereto. Bidders are required, at their own expense, to comply with all statutes, including, but not limited to, the aforesaid prevailing wage rate, regulations, ordinances and tests which may be applicable.

**ILI Contractor must submit weekly payroll records to the Peabody Municipal Light Plant Engineering Department designated staff member for all employees who have worked on the project.** Please take notice that Massachusetts Law requires Contractors to preserve these records for three years.

**8. ASSIGNMENT AND SUBCONTRACTING**

The Seller's obligations authorized under this Contract are not assignable or transferable, and the Seller agrees not to subcontract any of the work authorized hereunder without the prior written approval of the Purchaser. The Purchaser retains the right to approve or disapprove of all subcontractors for such approved work.

**9. OWNERSHIP OF PRODUCT**

All technical data, evaluations, specifications, reports, studies, are the property of the Purchaser and shall be delivered to the Purchaser. The Seller may retain copies thereof for its files and its internal use.

**10. TECHNICAL PUBLICATION**

Publication or teaching of information directly derived from work performed, or data obtained, in connection with services rendered under this Contract must first be approved in writing by the Purchaser.

**11. CONFIDENTIALITY**

The Seller shall keep all services carried out hereunder for the Purchaser (described in the Specifications attached hereto) entirely confidential, and not use, publish, or make known without the Purchaser's written approval, any information furnished by the Purchaser for purposes of such services, to any persons other than personnel of the parties of this Contract.

Any public representation regarding the Purchaser shall be made by the Purchaser, and any requests for information made to the Seller by a Third Party shall be referred to the Purchaser.

**12. WAIVER**

In the event the Purchaser shall fail to insist on performance of any of the terms or the exercise of any of its rights and privileges, such failure or any breaches, shall not constitute a waiver of such terms, conditions, rights or privileges.

**13. WARRANTY**

The Seller warrants to the Purchaser that the article(s) provided and/or work performed under this Contract shall be fit for purpose in accordance with the Purchaser's specific instructions, shall be new and free from defects in material, workmanship and title, and shall meet all specifications. If the article(s) purchased and/or work performed do not meet the warranty above, the Purchaser, after determining a defect or non-conformance, will notify the Seller. At the sole discretion of the Purchaser, the Seller shall replace, repair, or make good, without cost to the Purchaser, any defects or non-conformance arising within one year after date of acceptance of article(s) furnished and/or work performed.

**14. CUMULATIVE REMEDIES**

Every right or remedy herein conferred upon or reserved to the Purchaser shall be cumulative and shall be in addition to every right and remedy now or hereafter existing at law or in equity or by statute, and the pursuit of any right or remedy shall not be construed as an election.

**15. DELAYS**

The Seller expressly agrees to the work schedule provided for in the Contract and such schedule includes allowances for all hindrances and delays incident to the work. No claims shall be made by the Seller for hindrances and/or delays from any cause during the progress of the work except as provided under "SUSPENSION OF WORK" and/or "FORCE MAJEURE".

**16. SUSPENSION OF WORK**

The Purchaser reserves the right to suspend and reinstate execution of the whole or any part of the work without invalidating the provisions of the Contract. Orders for suspension or reinstatement of work will be issued by the Purchaser to the Seller in writing. The time of completion of the work will be extended for a period equal to the time lost by reason of the suspension. No consideration shall be given by the Purchaser to cost increases or loss of anticipated profits, due to suspension or reinstatement of this Contract.

**17. FORCE MAJEURE**

A delay in, or failure of, performance of either party hereto shall not constitute default hereunder or give rise to any claim for damage if and to the extent such delay of failure is caused by occurrences beyond the control of the party affected, including, but not limited to, acts of God, or the public enemy, expropriation or confiscation of facilities or compliance with any order or request of a governmental authority, affecting to a degree not presently existing, the supply, availability, or use of materials or labor, acts of war, public disorders, rebellion or sabotage, floods, riots, strikes, or any causes whether or not the class or kind of those specifically named above, not within the control of the party affected and which, by the exercise of reasonable diligence, said party is unable to prevent. Should the work be delayed due to Force Majeure, or otherwise delayed due to conditions beyond the control of or without the fault or negligence of either party, the parties to this Contract shall confer to reach an agreement on the alterations of fees and/or other terms and conditions upon which the work shall be continued, or otherwise terminated.

**18. ARBITRATION**

Arbitration of all questions and issues in dispute under this Contract shall be submitted to Arbitration in accordance with the provisions of the standard Form of Arbitration of the American Arbitration Association, but only in the event that both parties to this Contract so agree to such submission for Arbitration. If both parties fail to agree to submit to Arbitration in the manner prescribed above, or to submit to Arbitration in any mutually acceptable form, all questions and issues in dispute will be submitted to a court of competent jurisdiction of the Commonwealth of Massachusetts to be tried according to the applicable laws of the Commonwealth of Massachusetts.

Costs of such arbitration will be shared equally by the parties, unless the arbitrator determines that the claim made by one of the parties is without merit, in which event the arbitrator may award costs to the other party.

**19. TERMINATION FOR CAUSE**

The Purchaser, on written notice, may suspend, postpone, abandon or terminate this Contract, or any part thereof, as a result of the Seller's failure to render to the satisfaction of the Purchaser the materials, work and/or services required of him under this Contract, including the progress of the work. The Purchaser shall be the sole determinant in all termination for cause issues and no consideration shall be given by the Purchaser to the Seller for any costs, claims, or loss of anticipated profits by the Seller as a result of the suspension postponement, abandonment or termination of this Contract, or any part thereof, by the Purchaser for the reason of cause.

**20. TERMINATION FOR CONVENIENCE**

The Purchaser, on written notice, may suspend, postpone, abandon or terminate this Contract or any part hereof, and such action shall in no event be deemed a breach of the Contract. Such suspension, postponement, abandonment or termination may come about for the sole convenience of the Purchaser. Upon receipt of written notification from the Purchaser that this order, or any part hereof, is to be terminated, the Seller shall immediately cease operations of the work stipulated, and assemble all material that has been prepared, developed, furnished or obtained under the terms of this Contract that may be in its possession or custody, and shall transmit the same to the Purchaser on or before the fifteenth day following the receipt of the above-written notice of termination, together with his evaluation of the cost of the work performed. The Seller shall be entitled to just and equitable payment in accordance with this Contract for any uncompensated work satisfactorily performed prior to such notice. The Purchaser shall determine the amount of acceptable work performed by the Seller under this Contract. The Purchaser's evaluation shall be used as a basis to determine the amount of compensation due the Seller for this work, provided it shall be made in good faith and supported by substantial evidence.

In determining the value of the work performed by the Seller prior to termination, no consideration will be given to profit which the Seller might have reasonably expected to make on the uncompleted portion of the work.

**21. INSURANCE**

The seller shall, at its own expense, maintain in effect at all times during the performance of the work, insurance coverage with limits not less than those set forth below with insures and forms of policy satisfactory to the purchaser.

The Seller shall deliver to the Purchaser no later than ten (10) days after contract date or prior to commencing work, whichever is sooner, Certificates of Insurance, identified on their fact by Contract number and work description as evidence that policies providing such coverage and limits of insurance are in full force and effect. **Such certificates shall name PMLP as additional insured.** The Seller shall provide that at least sixty (60) days' advance written notice will be given the Purchaser prior to cancellation, termination, or material alteration of said policies of insurance. **Seller shall ensure that all intended Subcontractors similarly provide Insurance Certificates meeting the requirements of these Specifications and also naming PMLP as additional insured.**

**REQUEST for BIDS – In-Line Inspection of PMLP’s 10” Natural Gas Pipeline**

COVERAGE	MINIMUM LIMITS
1. Workers Compensation	-Statutory requirements of the Commonwealth of MA
2. Employer's Liability	-To extent included under Workers Compensation insurance policy with a minimum limit of \$100,000
3. *Comprehensive General Liability:	
a) Bodily Injury	\$3,000,000 each occurrence
b) Property Damage	\$3,000,000 each occurrence
* Products liability and completed operations included.	
4. Comprehensive Automobile Liability (owned, hired, and non-owned)	
a) Bodily Injury	-\$500,000 each person
	-\$1,000,000 each occurrence
b) Property Damage	-\$50,000 each occurrence

**22. INDEMNIFICATION**

The Seller shall defend, indemnify and hold the Purchaser, and its employees free and harmless from and against any and all claims, demands, causes of action, suits or other litigation (including all costs thereof, including attorney's fees) of every kind and character arising on account of bodily injuries, death, damage to property in any way occurring incident to, arising out of or in connection with work performed or to be performed by the Seller hereunder or occurring incident to, arising out of or in connection with the presence of employees of the Seller or any of the Seller's subcontractors on the work premises, due to the negligence or willful misconduct of the Seller.

**23. LAW OF CONTRACT - JURISDICTION**

The Contract shall be construed under and shall be governed by the Laws of the Commonwealth of Massachusetts, and in case of controversy not otherwise settled shall be submitted to the exclusive jurisdiction of the Massachusetts Courts.

**24. AUDIT**

The Seller shall, at its own expense, keep and maintain complete records and books of account of its costs and expenses relating to the work in accordance with generally accepted accounting practices. Should a dispute arise between the Purchaser and Seller regarding reimbursable amounts and/or credits, the Seller shall grant the Purchaser permission to audit such records and books of account.

**25. TAXES**

The Seller shall pay all applicable state and local sales and use taxes on sales to, or used by, the Seller of tangible property and services employed by the Seller in the performance of the Order. The Seller shall identify all costs in connection therewith. The Purchaser is an organization exempt from the payment of such state and local taxes of tangible property and services, and will not reimburse the Seller for such taxes paid. PMLP’s Tax Exempt I.D. # can be provided to the selected Bidder as appropriate upon written request.

**REQUEST for BIDS – In-Line Inspection of PMLP’s 10” Natural Gas Pipeline**

**26. ACCEPTANCE**

This order expressly limits acceptance to the terms stated herein. Any additional or different terms proposed by the Seller are objected to and are hereby rejected.

**27. COMPLETION OF CONTRACT**

This Contract will not be considered complete until all specifications and Contract requirements have been satisfied. These requirements also include the Purchaser's acceptance of all documentation, drawings, manuals, etc. Final payment shall not be construed to relieve the Seller of any of its obligations under this Contract.

**28. NOTICE**

The Purchaser agrees to give the Seller immediate notice of any and all claims for which the Seller may be liable, and the Seller agrees to give the Purchaser immediate notice of any and all claims for which the Purchaser may be liable. All claims hereunder shall be in writing and shall be deemed to have been duly given if delivered or mailed, first class, registered mail, postage paid.

A. IF TO THE SELLER, ADDRESS:

\_\_\_\_\_

B. IF TO THE PURCHASER, AT PEABODY MUNICIPAL LIGHT PLANT, 201 WARREN STREET EXT., PEABODY, MASSACHUSETTS, 01960.

**29. VENDOR IDENTIFICATION**

The Seller's name or corporate identification shall be clearly displayed on all vehicles and other similar equipment at all times while work is performed under this Agreement.

**--- END OF SECTION---**

**SECTION 3 - SAMPLE CONTRACT**

AGREEMENT made this «DATE», by and between the Peabody Municipal Light Plant, a business duly established under the laws of the Commonwealth of Massachusetts, and having a usual place of business at 201 Warren Street Extension, Peabody, Massachusetts 01960, hereinafter referred to as "PMLP", and «LABORSERVICE», having a usual place of business at «LABORSERVICE», hereinafter referred to as «LABORSERVICE».

WITNESSETH, that the PMLP and «LABORSERVICE», for the consideration hereinafter stated, agree as follows:

1. That “NAME” shall furnish «Service» as set forth in the specifications incorporated in a proposal dated «Service».
2. The Contract price shall be the proposal price of as set forth on the proposal form dated “PROPOSAL DATE” and herein incorporated by reference.
3. «LABORSERVICE» shall not assign or transfer this contract, or any part thereof, or any sum due or to become due hereunder without the written consent of the PMLP.
4. This AGREEMENT together with the Instructions to Contractors, Purchaser's Terms and Conditions, PMLP Specifications, and Contractors Proposal, hereto attached, form this Contract and are as fully a part of this Contract as if herein repeated.

IN WITNESS WHEREOF, the parties hereto have executed this AGREEMENT the day and year above first written.

«Service»

PEABODY MUNICIPAL LIGHT PLANT

BY \_\_\_\_\_  
(NAME)

BY \_\_\_\_\_  
GLENN TRUEIRA, MANAGER

\_\_\_\_\_  
(TITLE)

DATE: \_\_\_\_\_

**SECTION 4**

**CERTIFICATE OF NON-COLLUSION**

THE BELOW SIGNED QUOTER HAS NOT DIVULGED TO, DISCUSSED OR COMPARED HIS QUOTE WITH OTHER QUOTES AND HAS NOT COLLUDED WITH ANY OTHER QUOTER OR PARTIES TO A QUOTE WHATSOEVER. The undersigned certifies under penalties of perjury, that this accompanying bid or proposal is not the result of, or affected by, any unlawful act of collusion with any other person or company engaged in the same line of business or commerce, or any other fraudulent act punishable under the Commonwealth of Massachusetts or United States Law. As used in this certification, the “person” shall mean any natural person, business, partnership, corporation, union, committee, club, or other organization, entity, or group of individuals.

**Note:** No premiums, rebates or gratuities to any employee are permitted with, prior to, or after any delivery of materials. Any such violation will result in the cancellation and/or return of material (as applicable) and the removal from the master bidders list.

<b>ILI Contractor’s Full Legal Name: (PLEASE TYPE OR PRINT)</b>	
<b>Authorized Signature:</b>	
<b>Date:</b>	

**TAX COMPLIANCE CERTIFICATION**

Pursuant to MGL 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 ILI contractors, and withholding and remitting child support.

<b>ILI Contractor’s Full Legal Name: (PLEASE TYPE OR PRINT)</b>	
<b>Duly Authorized Signature:</b>	
<b>Date:</b>	
<b>Social Security # or FID #:</b>	



**SECTION 5 - PMLP BID FORM**

\_\_\_\_\_ (firm name) proposes to furnish: all labor, materials, and services for In-Line Inspection of Peabody Municipal Light Plant’s 10” Natural Gas Pipeline: 12/21/2016 as described in the Specifications for the following firm prices:

- Furnish, Install, Operate and Remove Launcher and Receiver, including providing the propellant and the equipment necessary to propel the tools \$ \_\_\_\_\_
- Cleaning (first 3 cleaning runs, all-inclusive per Section 6 specifications) \$ \_\_\_\_\_
- Cleaning (each additional cleaning run) \$ \_\_\_\_\_
- In-Line Inspection and Reports (all-inclusive per Section 6 specifications) \$ \_\_\_\_\_
- TOTAL \$ \_\_\_\_\_

Bid Expiration Date (at least 60 days from bid opening date) \_\_\_\_\_

Completion Timeframe (# of days after contract execution) \_\_\_\_\_

- The above bid is in complete compliance with Technical Specifications:      Yes       No
- The above bid is in complete compliance with PMLP’s Terms and Conditions:      Yes       No
- The above bid includes the requisite bid bond:      Yes       No
- The above bid includes the requested References Contact information:      Yes       No

Firm Name: \_\_\_\_\_

Address: \_\_\_\_\_

Contact #: \_\_\_\_\_

Signature: \_\_\_\_\_

Title and Date \_\_\_\_\_

Remarks: \_\_\_\_\_

**SECTION 5 - REFERENCES**

Name, address and telephone number of three (3) references for which you have provided a similar service:

Reference Company Name:

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Contact and Phone #

---

Reference Company Name:

---

Contact and Phone #

---

Reference Company Name:

---

Contact and Phone #

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## **SECTION 6 – In-Line Inspection Specifications**

### **6.0 In-Line Inspection Specifications**

#### **6.1 Scope of Work**

##### **6.1.1 General**

Peabody Municipal Light Plant is accepting Bids to have In-Line Inspection (ILI) performed for their 10” Natural Gas Pipeline in support of its Integrity Management Program. The general location of this pipeline is shown in Appendix 7.1 and the required Pipeline Modifications that are being performed and completed under a separate Contract with a Qualified Pipeline Contactor to support the ILI work are shown in Appendix 7.2.

The Work under this effort shall be performed in accordance with these Specifications, the Drawings and the requirements of the Contract Documents; it being expressly understood that **the intent of these Specifications is to provide for the completion of the required cleaning and In-Line Inspection of the pipeline in accordance with modern pipeline practice prevailing in the industry, and in full compliance with the Contract Documents and relevant codes, standards, and legislation.**

All work performed by ILI CONTRACTOR shall be in accordance with applicable municipal, state, or federal codes and laws and such other specifications as contained herein. In the event of a conflict or conflicts between the requirements of these Specifications and any municipal, state, or federal government codes or laws, the governmental regulations shall apply.

All ILI CONTRACTOR operations shall be confined to those areas in which the Work is to be performed or which are specifically authorized in writing by PMLP. No storage or disposal of material or debris will be allowed without PMLP's approval.

##### **6.1.2 Existing Conditions of PMLP’s Pipeline**

The PMLP pipeline was constructed in 1988 to transports natural gas from the Tennessee Gas Pipeline tap point in Danvers, MA to the PMLP Power Plant located in Peabody, MA (see Appendix 7.1).

**The PMLP pipeline consists of approximately 2,000 feet of 10” diameter ASTM A106 Grade B steel pipeline with an O.D. of 10.75” and wall thickness of 0.365”. (Some previous construction documents indicate a wall thickness of 0.369”; however we believe this to be an error.) Additional records indicate that all bends are at least 1.5D Bends (long radius bends). The design MAOP of the pipeline is 900 PSIG however the pipeline operates at a MAOP of 750 PSIG being that the MAOP of Tennessee Gas Pipeline to which PMLP’s pipeline interconnects is 750 PSIG.**

The pipeline was installed using open trench techniques except for the primary directionally drilled portion under the Waters River and the portion installed through a casing pipe under a rail line (see Appendix 7.3 for additional existing conditions information and documentation).

Upon completion of the original installation in 1988 the pipeline was to be pigged. An air-propelled, full-size scraper pig was to be used to remove welding debris and icicles. The cleaning pig was to be of a brush and cup design, and have a minimum of two sets of wire brushes and two scraper cups. A caliper or sizing pig was also to be used, and was intended to inspect the pipeline for damage and to confirm the bore size along the

## REQUEST for BIDS – In-Line Inspection of PMLP’s 10” Natural Gas Pipeline

full length of the installed pipeline. Also an air-propelled, oversized, squeegee-type pig was to be used to remove all remaining debris. **No report related to these pigging operations has been located.**

A Report of River Crossing Survey, related to the directionally drilled portion of the pipeline, has been included in Appendix 7.3. This report indicates the length of the drilled section of the pipeline to be approximately 1,443 feet with a depth of cover under the river bottom of 15 feet and a depth of cover in the open trenched area of approximately 3 feet.

The Alignment Sheet Plans (Plans EY-001 and EY-002) for the PMLP pipeline (see Appendix 7.3), also indicate a depth of cover under the river bottom of 15 feet and show a depth of cover in the open trenched area of approximately 3 feet.

Plan BP-001, in Appendix 7.3, provides the available detail related to how the pipeline was installed under the railroad in the cased section of the pipeline.

A Hydraulic Pressure test was performed during the original commissioning process of the pipeline in 1988, but **no report related to the hydraulic pressure test has been located.**

This pipeline has been in service since it was installed and has been providing gas to the PMLP facility in Peabody, MA on an interruptible and as needed basis since that time. This pipeline is always packed with gas but is not always flowing.

**The pipeline has not been cleaned nor inspected internally since it was installed.**

The TGP owned valve at the TGP Tap location is the valve that controls the flow of gas to the PLMLP Pipeline. (See Plan TE-E12-270C-100-17A in Appendix 7.3)

### 6.1.3 Project description

The ILI Contractor shall supply all materials, equipment, supervision, labor, tools, instruments, vehicles, consumables, and services necessary to complete the Cleaning and In-Line Inspection of PMLP’s 10” Natural Gas Pipeline as specified in these documents.

**The ILI Contractor is to supply the required Launcher and Receiver for cleaning and In-Line Inspection operations. The Launcher and Receiver will remain the property of the ILI Contractor and are to be removed from the site upon completion of the work.**

**The Launcher and Receiver will be connected to the flanges as shown on the plans titled “Modifications to existing above ground piping for Pigging” included in Appendix 7.2.**

The expectation is that the Launcher will be positioned at the TGP Tap Valve location in Danvers, MA and the Receiver will be located within the PMLP Plant location in Peabody, MA. This will enable the pipeline to be cleaned and inspected in the same direction as the normal direction of the flow of gas and for the material expelled from the pipe during cleaning and progress of the work to be handled inside of the PMLP Facility.

It is the ILI Contractors responsibility to clean the line to comply with the requirements of their intended In-Line Inspection tool or tools. **All material, liquid, debris, etc. expelled from the pipeline will be disposed of**

## REQUEST for BIDS – In-Line Inspection of PMLP’s 10” Natural Gas Pipeline

by the supporting Pipeline Contractor or PMLP, NOT the ILI Contractor, in compliance with applicable codes and standards.

### The ILI Contractor’s Scope includes, but is not limited to:

- Making required Contract Submittals as specified and/or required by these Bid documents
- Performing all transporting, cleaning, tracking, material handling, etc. required to prepare for, perform, and clean up from the Pipeline Cleaning and ILI work
- Completing the required Pipeline Cleaning; including the supply and use of the propellant and compressor to be used to push the tools
- Completing the required In-Line Inspection of the pipeline, including the supply and use of the propellant and compressor to be used to push the tools; and submittal of Draft and Final Reports of the ILI work
  - Supporting Pipeline Contractor will:
    - Establish useable access to the site and restore same upon completion of all work
    - Provide lifting support to ILI Contractor related to the ILI Contractor’s equipment and tools
    - Blow Down the Pipeline (clearing it of Natural Gas)
    - Complete required Pipeline Modifications as shown on the drawings in Appendix 7.2 (cutting in required flanges and providing the long radius bend and valve transition piece for ILI Contractor’s Launcher and Receiver to connect too)
    - Operation of Valves that require Operator Qualifications to operate
    - Handle and dispose of all material expelled from the pipeline during cleaning and the progress of the work
    - Reassemble the pipeline upon completion of In-Line Inspection, including leak testing
    - Repack the pipeline with Natural Gas and bringing it back into service

PMLP and TRI-MONT Engineering, Company Staff will be available on site prior to and during the work to facilitate any required coordination; including the coordination with the Tennessee Gas Pipeline (TGP) staff that will be required to support the operating of the TGP owned valve on the Danvers, MA side of the Pipeline.

#### 6.1.4 Materials

All materials shall conform to the standards specified, shall be new, free from defects and imperfections, and be of recent manufacture. Materials not covered by detailed specifications shall be standard products of reputable manufacturers which are suitable for the intended use.

All materials used shall have full chemical analysis and mechanical test certifications and shall be identifiable and fully traceable.

## REQUEST for BIDS – In-Line Inspection of PMLP’s 10” Natural Gas Pipeline

### 6.1.5 Inspection and Testing

The ILI CONTRACTOR shall give PMLP and TRI-MONT full and unrestricted access to all areas of the work throughout the progress of the work.

If any inspection or testing reveals that the work is not in accordance with this specification, industry standards or best practices, then the work shall be corrected.

All work and materials will be subject to 100% visual, dimensional and NDE inspection.

### 6.1.6 Access and security during the work

Access to the TGP Tap location in Danvers will require coordination with both TGP and PMLP; TRI-MONT will assist with this coordination.

Equipment and Personnel access to this side of the pipeline will be via Endicott Street in Danvers, MA as shown on the General Location Plan in Appendix 7.1. There is an existing Bar Gate along this path just prior to the abandoned rail line R.O.W. which is the access from the paved surface leading to the site.

Access to the TGP Tap side of the pipeline will need to be upgraded. Currently the access is overgrown, has concrete blocks barricading the access point to the TGP Tap fenced compound, and is not graded to facilitate vehicle and equipment access. Creating and/or upgrading this access **will not be a requirement of the ILI Contractor**, Access will be established and maintained by the Pipeline Contractor.

The fence line around the TGP Tap Area, or a portion there of, will also need to be removed to perform the required work. The fence will need to be re-installed in kind upon completion of the work. Removing and reinstalling the fence **will not be a requirement of the ILI Contractor**; Access will be established and maintained by the Pipeline Contractor.

Access to the Peabody side of the pipeline will be via Pulaski Street in Peabody, MA as shown on the General Location Plan in Appendix 7.1. PMLP will provide access through the PMLP Plant’s Main gate. No regrading, borrow material, or fence removal is expected at this end of the pipeline. PLMLP’s Facility must remain secured during the execution of the work.

### 6.1.7 Schedule

Prior to commencement of the work, the ILI CONTRACTOR shall prepare and submit for approval a project plan with schedule and timeline.

The schedule should include at a minimum:

- Mobilization of Launcher, Receiver, Cleaning Tools, and ILI Tools
- Mobilization of Propellant and equipment for its use (compressor, etc.)
- Connection of Launcher and Receiver to the recently installed Pipeline Flanges
- Cleaning Operations
- ILI Operations
- Demobilization

Work shall not commence until the schedule has been approved.

## REQUEST for BIDS – In-Line Inspection of PMLP’s 10” Natural Gas Pipeline

### 6.1.8 Applicable Code and Standards

The following Regulations, Industry Standards and Recommended Practices are relevant to this Specification. All work shall be in conformance with the latest edition of codes, standards, and regulations. In the event of a conflict between these Specification and/or Contract Documents, and applicable codes and/or standards the governmental regulations shall apply; however the ILI Contractor shall request written clarification from PMLP before proceeding with the work.

- API Standard 1163 “In-Line Inspection System Qualification Standard”
- NACE Recommended Practice RP0102-2002 “Standard Recommended Practice for In-Line Inspection of Pipelines”
- ASNT ILI-PQ “In-Line Inspection Personnel Qualification and Certification”
- 49 CFR 192

### 6.2 Permits

TRI-MONT Engineering, Company, on behalf of the Peabody Municipal Light Plant has coordinated with both the Danvers Conservation Commission and the Peabody Conservation Commission and determined that no Wetland Permitting is required for the work.

No other Permits, beyond typical Construction and Transportation Permits that the ILI CONTRACTOR will normally obtain are expected to be required.

### 6.3 Safety

The ILI CONTRACTOR shall comply with the provisions of the Occupational Safety and Health Act of 1970, OSHA Regulations, and APPA Safety Manual and the Standards and Regulations issued thereunder.

A **Lock Out - Tag Out** Procedure will be required for the operation of the TGP Tap Valve in Danvers, MA as well as the PMLP Valve in Peabody, MA. Both Valves shall be closed prior to the start of the work and a **Group Lockout Hasp shall be used** to secure the chain or device used to keep the Valve from being operated while others are working on the pipeline. A lock from TGP, PMLP, and each contractor shall be installed in the two respective **Group Lockout Hasps at either end of the pipeline** until the work is complete and the pipeline is ready to be brought back into service. Locks can be removed by individual Contractors upon their completion of their Scope and departure from the site.

The ILI CONTRACTOR is fully responsible for the Safety of his personnel and that of his subcontractors during the preparation, progress, and cleanup of the work. The ILI Contractor shall submit a Site/Project Specific Safety Plan for approval.

The Safety Plan shall include, but not be limited to, the following information:

- Key personnel and responsibilities
- Communications
- Health, safety, and environmental issues with respect to the tasks to be perform
- Identification of required PPE, First Aid supplies, and Safety equipment
- Spill prevention and response plan
- Review of electrical clearances which must be maintained from energized facilities

## REQUEST for BIDS – In-Line Inspection of PMLP’s 10” Natural Gas Pipeline

### 6.4 Submittals and Shop Drawings

The ILI CONTRACTOR shall submit the following:

- Shop drawings with associated calculations as required:
  - Pig Launcher
  - Pig Receiver
  - Propellant (source, specification, and piping/controls for its use)
  - Cleaning Tools
  - ILI Tools
  
- Submittals:
  - A list of personnel that will be deployed for the ILI tool run, data analysis and final report review
  - **Current and valid certifications for staff per ILI Contractor’s Written Program in compliance with ANSI/ANST ILI-PQ-2010 “In-Line Inspection Personnel Qualifications and Certification”**
  - List of Subcontractors and their assigned Scope if any
  - Safety Plan
  - Cleaning Plan, Procedure, and Schedule
  - ILI Plan, Procedure, and Schedule
  - ILI Inspection Reports

### 6.5 Blow Down

Prior to performing the remainder of the work the PMLP pipeline must be isolated from the TGP Transmission Pipeline and Blown-Down (cleared of natural gas). Blow Down **will not be a requirement of the ILI Contractor**; this work will be done by the supporting Pipeline Contractor.

### 6.6 Pipe modifications

Pipe modifications **will not be a requirement of the ILI Contractor**; this work will be done by the supporting Pipeline Contractor.

A usable 10” Flange will be in place at both ends of the PMLP Pipeline for the ILI Contractor to connect their Launcher and Receiver too (see plans in Appendix 7.2 for details).

### 6.7 Pipeline Cleaning Requirements

**The Launcher and Receiver are to be provided by the ILI Contractor** and configured to connect to the flanges that are to be installed by the Pipeline Contractor at each end of the pipeline.

**The Launcher and Receiver will remain the property of the ILI Contractor and are to be removed from the site upon completion of the work.**

Launching and Receiving systems shall be designed in accordance with the requirements of:

- ASME B31.8 – Gas Pipelines
- ASME B31.3 – Process Piping



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- ASME Section VIII

**ILI Contractor’ staff shall be Trained and Qualified and have current and valid certifications for the work they will perform per their Written Program in compliance with ANSI/ANST ILI-PQ-2010 “In-Line Inspection Personnel Qualifications and Certification”. Submittal of the Staff’s Certifications is required.**

The ILI CONTRACTOR shall provide all necessary cleaning and inspection tools, including spare tools and parts, consumables, etc. to complete the cleaning and ILI of the PMLP Pipeline.

Cleaning Tools shall be selected by ILI CONTRACTOR and approved by COMPANY, shop drawings will be submitted by the ILI Contractor.

All Cleaning Tools shall be capable of the following:

- Providing a good seal across the full range of pipe inside diameters encountered in the pipeline
- Negotiating bends of 1.5D and larger
- Traversing a distance of not less than 5,000 feet

All Tools shall be suitable for their intended function and be of a proven design. The Tools shall have been manufactured with all new, high quality materials and be in suitable condition for their intended use. All Tools shall be permanently marked with a unique identification number prior to use on site.

Tools, equipment, and spares shall be transported and stored in good working order and in accordance with manufacturers' instructions. Tools shall be maintained in good working order. Items subject to wear, such as cups or discs, shall be replaced in accordance with the manufacturers' instructions before such wear causes any significant loss of function.

Direction of travel Cleaning Tools will only be from the Danvers Pipeline entry point towards the Peabody Pipeline entry point.

All nitrogen to be used for propelling the Cleaning Tools shall be sourced from an approved industrial gas vendor and shall be of commercially pure quality with a minimum of 95% nitrogen. All nitrogen used shall be vented to the atmosphere through suitable temporary vent piping. All unused gases shall be returned to for safe disposal, storage and/or recycling by ILI CONTRACTOR. Dry air may be used to move the Tools as appropriate.

**It is the ILI Contractor’s responsibility to clean the PMLP Pipeline to comply with the requirements of their intended In-Line Inspection tool or tools.**

**Cleaning should include the use of a gauging pig to evaluate the internal configuration of the existing pipeline and limit or eliminate the risk of the In-Line Inspection Tool or Tools getting stuck.**

All material, liquid, debris, etc. expelled from the pipe will be disposed of by the Pipeline Contractor or PMLP in compliance with applicable codes and standards.

The Lump Sum Bid should carry up to 3 cleaning pig runs to include all appurtenant support, equipment, and materials including propellant for tools. A “Unit Cost” for additional cleaning pig runs should also be provided.

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The ILI Contractor is responsible for all actions required to perform the Cleaning of the PMLP Pipeline including but not limited to: directing the hoisting and lifting of the Cleaning Tools and other equipment; supplying and using the propellant and associated equipment needed to propel the Cleaning Tools (Nitrogen or Dry Air); inspection of the Cleaning Tools after each run, and the cleanup and maintenance of the Cleaning Tools upon the completion of cleaning the PMLP Pipeline.

### 6.8 In-Line Inspection Requirements

**The Launcher and Receiver are to be provided by the ILI Contractor** and configured to connect to the flanges that are to be installed by the Pipeline Contractor at each end of the pipeline (See drawings in Appendix 7.2).

**The Launcher and Receiver will remain the property of the ILI Contractor and are to be removed from the site upon completion of the work.**

Launching and Receiving systems shall be designed in accordance with the requirements of:

- ASME B31.8 – Gas Pipelines
- ASME B31.3 – Process Piping
- ASME Section VIII

**ILI Contractor’ staff shall be Trained and Qualified and have current and valid certifications for the work they will perform per their Written Program in compliance with ANSI/ANST ILI-PQ-2010 “In-Line Inspection Personnel Qualifications and Certification”. Submittal of the Staff’s Certifications is required.**

The personnel operating the ILI systems and the personnel handling, analyzing and reporting the inspection results shall be qualified and certified according to ANSI/ASNT-ILI-PQ-2005 (or later version/superseding document). Key personnel shall meet the following minimum qualifications (ref. ANSI/ASNT-ILI-PQ-2005):

- Team leader during ILI field activities: Level II Tool Operator for the applicable technology
- Data analysis and reporting: Level II Data Analyst for the applicable technology
- Review of final Client report: Level III Data Analyst for the applicable technology

A list of personnel that will be deployed for the ILI tool run, data analysis and final report review shall be submitted to PMLP for review and approval.

The ILI CONTRACTOR shall provide all necessary ILI Tools, including spare tools and parts, consumables, etc. to complete the ILI of the PMLP Pipeline.

All ILI Tools shall be suitable for their intended function and be of a proven design. The Tools shall have been manufactured with all new, high quality materials and be in suitable condition for their intended use. All Tools shall be permanently marked with a unique identification number prior to use on site.

ILI Tools, equipment, and spares shall be transported and stored in good working order and in accordance with manufacturers' instructions. ILI Tools shall be maintained in good working order. Items subject to wear shall be replaced in accordance with the manufacturers' instructions before such wear causes any significant loss of function.

**REQUEST for BIDS – In-Line Inspection of PMLP’s 10” Natural Gas Pipeline**

Direction of travel for ILI Tools will only be from the Danvers Pipeline entry point towards the Peabody Pipeline entry point.

All nitrogen to be used for propelling the ILI Tools shall be sourced from an approved industrial gas vendor and shall be of commercially pure quality with a minimum of 95% nitrogen. All nitrogen used shall be vented to the atmosphere through suitable temporary vent piping. All unused gases shall be returned to for safe disposal, storage and/or recycling by ILI CONTRACTOR. Dry air may be used to move the Tools as appropriate.

The ILI Contractor is responsible for all actions required to perform the ILI of the PMLP Pipeline including but not limited to: directing the hoisting and lifting of the ILI Tools and other equipment; supplying and using the propellant and associated equipment needed to propel the ILI Tools (Nitrogen or Dry Air); inspection of the Tools after each run; cleanup and maintenance of the ILI Tools upon the completion of ILI of the PMLP Pipeline; and collecting the data to evaluate the pipe and provide the inspection reports.

**TRI-MONT Engineering, Co. will provide GPS Survey support for locating all Above Ground Markers.**

ILI Tools shall be capable of the following and the use of combination Tools is encouraged:

- Providing a good seal across the full range of pipe inside diameters encountered in the pipeline
- Negotiating bends of 1.5D and larger
- Traversing a distance of not less than 5,000 feet
- High Resolution MFL
- Metal Loss Detection (both internal and external corrosion)
- Detecting Dents and Deformations
- XYZ Mapping

ILI Tools shall be selected by ILI CONTRACTOR and approved by COMPANY, shop drawings will be submitted by the ILI Contractor.

The specifications for the High Resolution ILI Tools are as follows:

- Axial sampling distance: 0.08 inches
  
- Circumferential sensor spacing: 0.3 to 0.7 inches
  
- Detection limitations:
  - Minimum defect depth: 10% of WT with 90% Probability of Detection (POD)
  - Accuracy of measurement of defect depth: 10% of WT
  
- Minimum magnetization level:
  - Minimum magnetic field strength: 10 to 12 kA/m (3 to 3.7 kA/ft)
  - Minimum magnetic flux density: 1.7 T
  
- *Depth sizing accuracy:*
  - General metal loss: Minimum depth: 10% of WT  
Depth sizing accuracy: ± 10% of WT  
Length sizing accuracy: ± 0.8 inches
  
  - Pitting metal loss: Minimum depth: 10 to 20% of WT

**REQUEST for BIDS – In-Line Inspection of PMLP’s 10” Natural Gas Pipeline**

Depth sizing accuracy:  $\pm 10\%$  of WT  
Length sizing accuracy:  $\pm 0.4$  inches

- Axial grooving metal loss: Minimum depth: 20% of WT  
Depth sizing accuracy:  $-15/+10\%$  of WT  
Length sizing accuracy:  $\pm 0.8$  inches
- Circumferential grooving metal loss: Minimum depth: 10% of WT  
Depth sizing accuracy:  $-10/+15\%$  of WT  
Length sizing accuracy:  $\pm 0.6$  inches
- Circumferential slotting metal loss: Minimum depth: 10% of WT  
Depth sizing accuracy:  $-15/+20\%$  of WT  
Length sizing accuracy:  $\pm 0.6$  inches
- Corrosion at girth welds:
  - Adjacent to the weld: Minimum depth: 10% of WT  
Depth sizing accuracy:  $\pm 10$  to 20% of WT
  - Adjacent to the weld: Minimum depth: 10% of WT  
Depth sizing accuracy:  $\pm 10$  to 20% of WT

Deformation Tools and Mapping Tools shall meet these minimum standards:

- Depth, length and width sizing accuracies shall be  $\pm 0.5$  inches
- Accuracy of distance and orientation (clock position) of features shall be:
  - Distance to/from marker: 0.25% of distance
  - Distance to closest weld: 0.5 feet (6 inches)
  - Circumferential position:  $10^\circ$
- Dents and ovalities shall be detectable at:
  - Ovalities: ID reduction, accuracy 2% of pipeline ID with certainty = 80%
  - Length, accuracy 10% of pipeline ID with certainty = 80%
  - Dents: Depth, accuracy 2% of pipeline ID with certainty = 80%
  - Length, accuracy 10% pipeline ID with certainty = 80%
  - Width, accuracy 10% pipeline ID with certainty = 80%.

**Reporting requirements**

The Estimated Repair Factor (ERF) shall be calculated using the ASME B31.G methodology.

Measurement shall be in Feet and Inches as will Reports.

The list of anomalies and the pipe tally shall be compatible with standard EXCEL software.

A user friendly software package shall be provided to enable review and assessment of the data collected by the inspection tool by PMLP.

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The final inspection report (hard & electronic copy) shall contain the following information and be available within 8 weeks of the completion of the ILI run:

- Field Report
- Tool Operational Data
- Tool Calibration
- Pipe Tally
- List of Anomalies
- List of Clusters
- Summary and statistical data
- Detection of AGMs

### **Field Report**

The field report shall contain a statement from the ILI Contractor on the quality and findings of all preparatory activities, tool runs and inspection runs. It shall state whether or not the run was successful; and include comments as to the condition and functional performance of the Tools after each run. The Field Report will be used to consider a re-run along with the Tool Operational Data.

The Field Report should include comments on:

- **Physical damage to sensors after run** *(Tools shall be visually examined as soon as possible following the run to give a quick indication of the potential need for a re-run. Sensor damage shall be evaluated. Severe signs of wear on surfaces normally not exposed to that type of damage are an indication that the damage occurred early in the run and that significant information may not have been collected. The field log/data summary will also be reviewed to confirm the time of the damage and the impact of that damage on data collected.)*
- **Lost sensor channels on data** *(Review the field or preliminary log to determine if any channels stopped obtaining data. Loss of channels may be acceptable, if channels are not adjacent.)*
- **Sensor noise** *(Review the field or preliminary log to determine if any channels experienced sensor noise that masked out adjacent good data channels.)*
- **Distance inaccuracy** *(Check distance recordings to determine if the total line length varies by more than 1% from an accurate distance reference, a review of the footage should be conducted and an adjustment made if necessary.)*
- **Velocity underruns or overruns** *(Review the field or preliminary log to determine if tool velocities exceeded the ILI Tool’s upper and/or lower limits as data loss can be excessive in such situation. If the total line distance affected by the excursions exceeds 1 to 2%, a rerun should be considered. However, the rerun should not be conducted until the process parameters that led to the velocity problems can be addressed and modified to ensure that the rerun survey is conducted within the tool’s velocity limits.)*

### **Tool Operational Data**

The tool specifications shall be stated. In addition the following operational data shall be provided, each type of tool that was used shall be described separately:

- Data sheet of used tool(s) with e.g. serial number, software version etc.
- The data-sampling frequency or distance
- The detection threshold

## **REQUEST for BIDS – In-Line Inspection of PMLP’s 10” Natural Gas Pipeline**

- The reporting threshold (example - 90% POD)
- A tool velocity plot over the length of the pipeline
- Defective transducer statistics
- For MFL tools, a plot of the magnetic field strength H in kA/m over the length of the pipeline measured at the inner surface of the pipe
- Tool operational data statement will be used to consider a re-run
  - The maximum acceptable sensor loss (primary sensors) and/or data loss is 3%
  - Continuous loss of data from more than three adjacent sensors or 1 inch circumference (whichever is smallest) is not acceptable
  - The tool operational data statement shall indicate whether the tool has functioned according to specifications and shall detail all locations of data loss and where the measurement specifications are not met. When the specifications are not met (e.g. due to speed excursions, sensor/data loss), the number and total length of the sections shall be reported with possible changes of accuracies and certainties of the reported results.

### **Tool Calibration**

The ILI Contractor shall provide information regarding the calibration procedure and latest calibration record of the tool(s).

### **Pipe Tally**

The pipe tally shall list all pipeline component features and anomaly features detected. The pipe tally shall contain, but not be limited too, the following fields in the given sequence:

- Log distance;
- Upstream weld distance;
- Joint length;
- Feature type;
- Feature identification;
- Anomaly dimension classification;
- Clock position;
- Tool Speed;
- Nominal wall thickness (of each joint or pipeline component, between girth welds);
- Measured wall thickness;
- Reference wall thickness;
- Length of anomaly/feature;
- Width of anomaly/feature;
- Depth of metal loss as a % of wall thickness (d/t in %);
- Surface location: internal (INT), external (EXT), mid-wall (MID) or not applicable (N/A);
- GPS coordinates of features;
- ERF;
- Comments

### **List of Anomalies**

All anomalies with dimensions above the reporting thresholds shall be reported in the List of anomalies.

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The list of anomalies shall contain the same fields as the pipe tally. The field “Feature type” refers to anomalies, while the field “Feature identification” specifies these anomalies with one of the following possible items:

*Arc strike, Artificial defect, Buckle, Corrosion, Corrosion cluster, Crack, Dent, Dent with metal loss, Gouging, Grinding, Girth weld crack, Girth weld anomaly, HIC (hydrogen induced cracking), Lamination, Longitudinal seam weld crack, Longitudinal weld anomaly, Ovality Pipe mill anomaly, Pipe mill anomaly cluster, SCC (Stress Corrosion Cracking), Spalling, Spiral weld crack, Spiral weld anomaly, Wrinkle, Other.*

### **List of Clusters**

The individual anomalies that form clusters shall be reported in the list of clusters. This list shall be part of the final inspection report whereby the relation between the anomalies and clusters are indicated (e.g. numbered).

### **Summary and Statistical Report MFL Tools**

The summary report of metal loss shall contain a listing of:

- Total number of anomalies;
- Number of internal anomalies;
- Number of external anomalies;
- Number of general anomalies;
- Number of pits;
- Number of axial and circumferential grooves;
- Number of anomalies with depth 0 – <10%t;
- Number of anomalies with depth 10 – <20%t;
- Number of anomalies with depth 20 – <30%t;
- Number of anomalies with depth 30 – <40%t;
- Number of anomalies with depth 40 – <50%t;
- Number of anomalies with depth 50 – <60%t;
- Number of anomalies with depth 60 – <70%t;
- Number of anomalies with depth 70 – <80%t;
- Number of anomalies with depth 80 – <90%t;
- Number of anomalies with depth 90 - 100%t;
- Number of anomalies with ERF 0.6 – <0.8;
- Number of anomalies with ERF 0.8 – <0.9;
- Number of anomalies with ERF 0.9 – <1.0;
- Number of anomalies with ERF 1.0.

The following histograms shall be provided:

- Number of anomalies in sections with depth < 0.4t;
- Number of anomalies in sections with depth 0.4t – <0.6t;
- Number of anomalies in sections with depth 0.6t – <0.8t;
- Number of anomalies in sections with depth 0.8t;
- Number of anomalies in sections with ERF 0.8 – <1.0;
- Number of anomalies in sections with ERF 1.0.

### **Summary and Statistical Report of Geometry Tools**

The summary report of geometry tools shall contain a listing of:

## REQUEST for BIDS – In-Line Inspection of PMLP’s 10” Natural Gas Pipeline

- Total number of dents;
- Total number of ovalities;
- Number of dents with depth 2 – <6% ID;
- Number of dents with depth 6% ID;
- Number of ovalities\* 0.10 > ratio < 0.05;
- Number of ovalities\* with ratio > 0.10;
- Orientation plot of all dents over the full pipeline length;
- Orientation plot of all ovalities over the full pipeline length

### **Detection of AGMs**

AGMs or reference magnets that have been positively identified during the ILI run shall be indicated in the pipe tally. In addition, in the final inspection report the total number of installed AGMs and the number of identified AGMs shall be reported.

### 6.9 Packing and Purging Pipeline back into Service

Packing and purging pipeline back into service **will not be a requirement of the ILI Contractor**; this work will be done by the Pipeline Contractor.

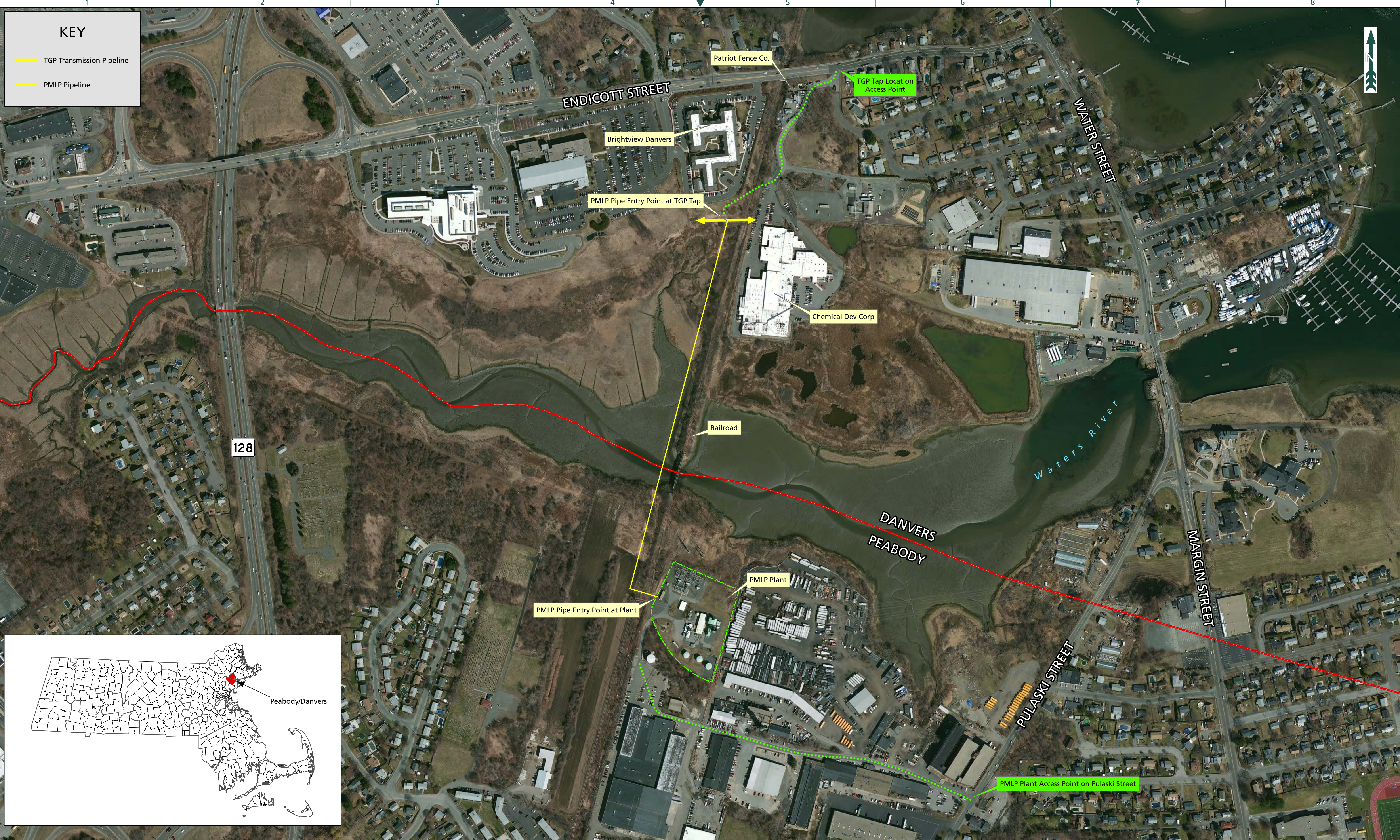
**--- END OF SECTION---**



## **SECTION 7 - Attachments**

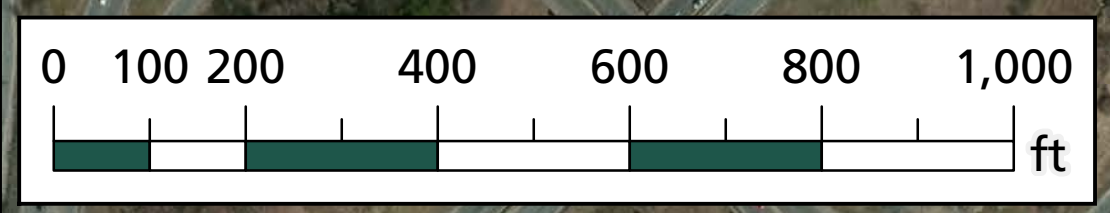
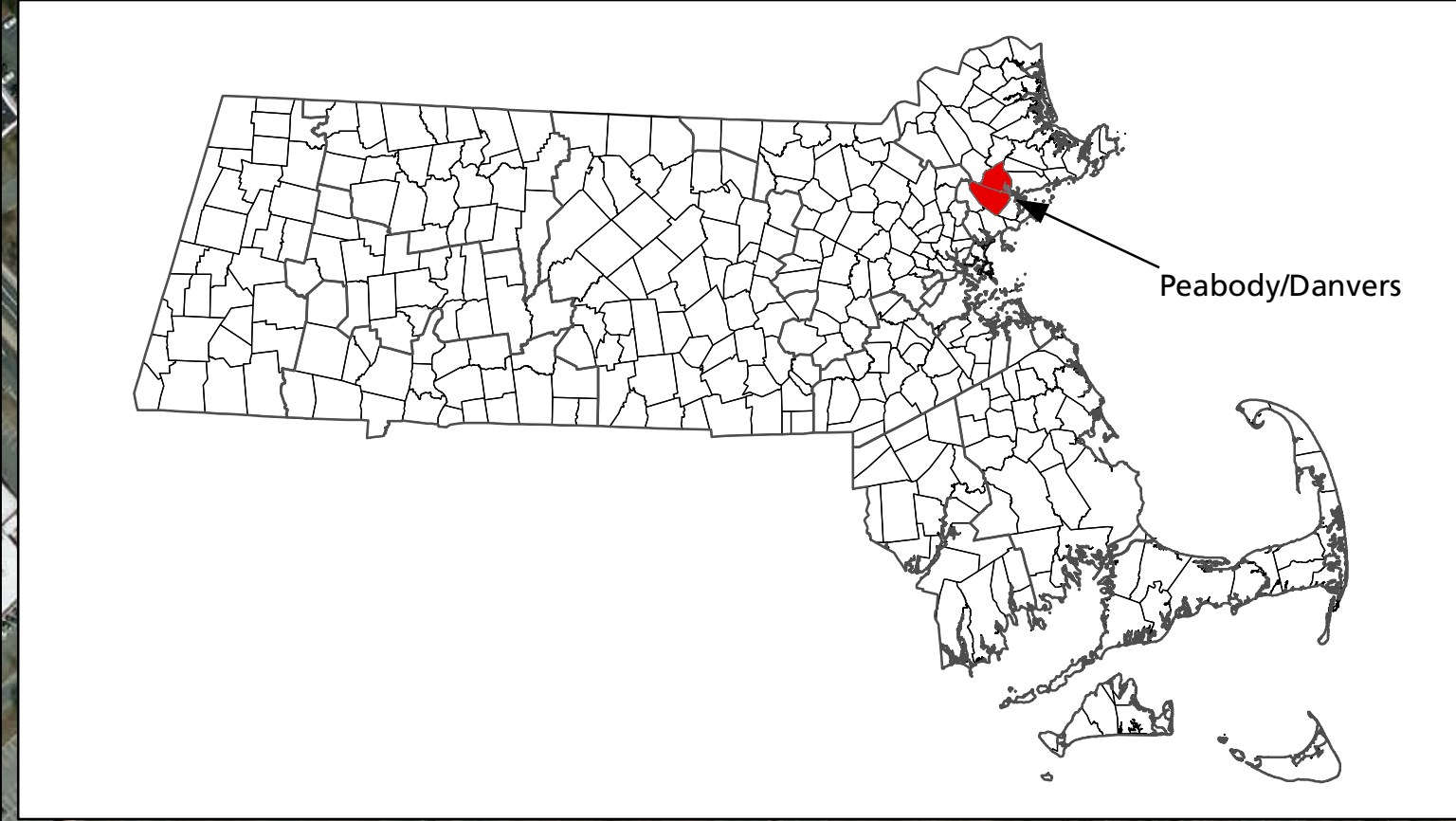
- 7.0 Attachments
  - 7.1 General Location Plan
  - 7.2 Required Pipeline Modifications and pictures of pipeline entry points
  - 7.3 Existing conditions documents (Plans, Sketches, Directional Drill Report)
  - 7.4 Prevailing Wage Rates

**Attachment 7.1 - General Location Plan**



**KEY**

- TGP Transmission Pipeline
- PMLP Pipeline



REVISIONS				
REV.	DESCRIPTION	BY	DATE	APPD.
A	ISSUED AS APPENDIX TO BID DOCUMENTS	DSP	10/21/15	BFS

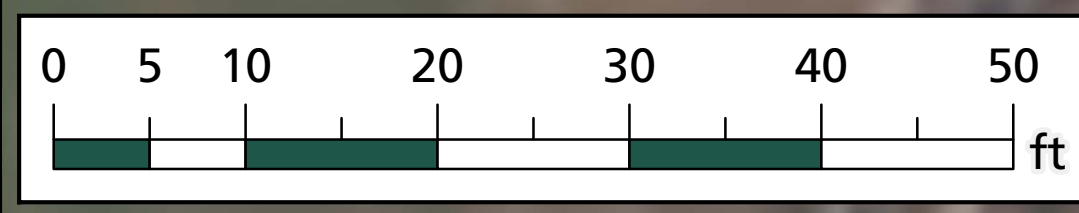


CLIENT: PEABODY MUNICIPAL LIGHT PLANT  
 PROJECT: IN-LINE PIPE INSPECTION

TITLE: PMLP FACILITY AND PIPELINE GENERAL LOCATION PLAN

TRI-MONT	BY	DATE	CLIENT	BY	DATE
DRAWN	DSP	10/19/15	APPROVED		
CHECKED	BFS	10/21/15	APPROVED		
APPROVED	BFS	10/21/15	APPROVED		

SCALE: 1 in = 200 ft      DWG. NO.: D-149-03-G1      REV. A



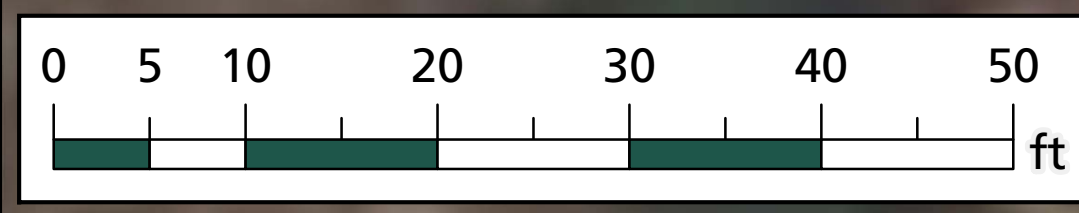
R E V I S I O N S				
REV.	DESCRIPTION	BY	DATE	APPD.
A	ISSUED AS APPENDIX TO BID DOCUMENTS	DSP	12/15/15	BFS



CLIENT	PEABODY MUNICIPAL LIGHT PLANT
PROJECT	IN-LINE PIPE INSPECTION

TITLE	PMLP FACILITY AND PIPELINE TEMPORARY WORK AREA PLAN
-------	--

TRI-MONT	BY	DATE	CLIENT	BY	DATE
DRAWN	DSP	12/2/15	APPROVED		
CHECKED	BFS	12/2/15	APPROVED		
APPROVED	BFS	12/2/15	APPROVED		
SCALE		DWG. NO.		REV.	
1 in = 10 ft		D-149-03-G2		A	



R E V I S I O N S				
REV.	DESCRIPTION	BY	DATE	APPD.
A	ISSUED AS APPENDIX TO BID DOCUMENTS	DSP	12/15/15	BFS



CLIENT	PEABODY MUNICIPAL LIGHT PLANT
PROJECT	IN-LINE PIPE INSPECTION

TITLE	PMLP FACILITY AND PIPELINE TEMPORARY WORK AREA PLAN
-------	--

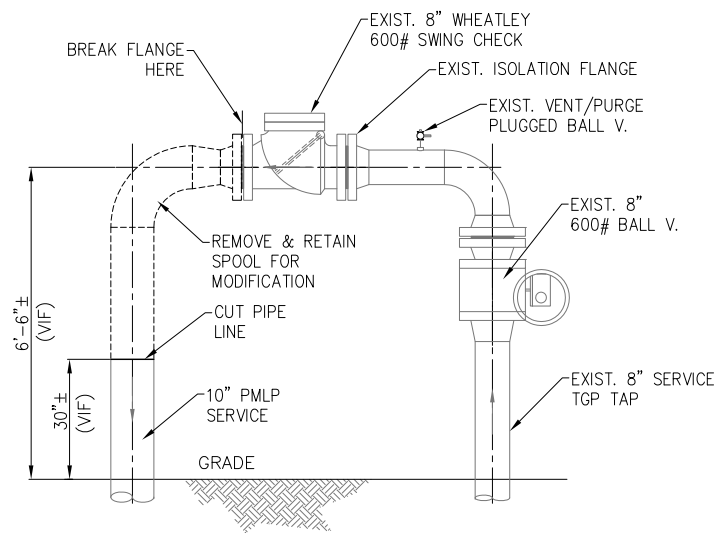
SCALE	1 in = 10 ft	DWG. NO.	D-149-03-G3	REV.	A
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1 2 3 4 5 6 7 8

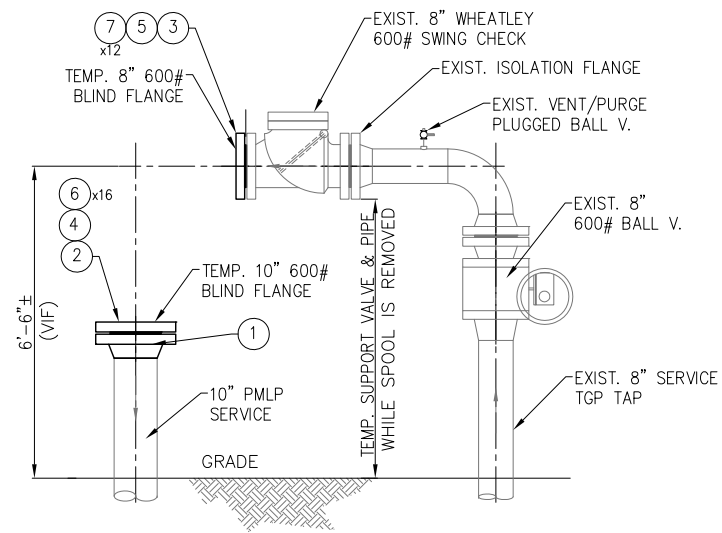
F  
E  
D  
C  
B  
A

**Attachment 7.2**

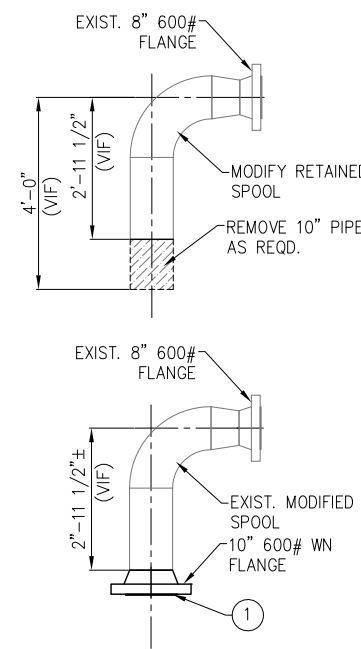
**Required Pipeline Modifications and pictures of pipeline entry points**



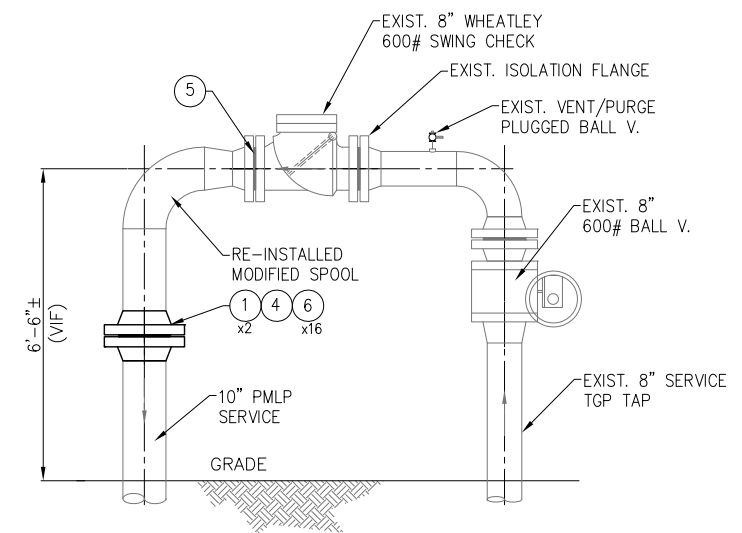
**DETAIL A**  
**EXISTING CONDITIONS**  
 SCALE: 1/2" = 1'-0"



**DETAIL B**  
**MODIFIED RISER**  
 SCALE: 1/2" = 1'-0"



**DETAIL C**  
**MODIFIED SPOOL**  
 SCALE: 1/2" = 1'-0"

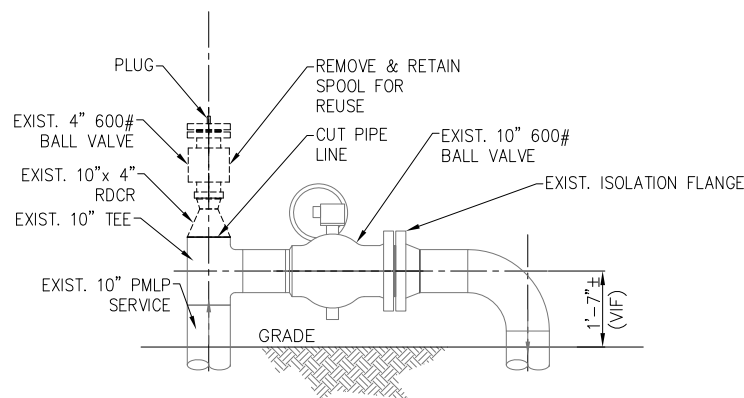


**DETAIL D**  
**RESTORED TGP - PMLP TAP**  
 SCALE: 1/2" = 1'-0"

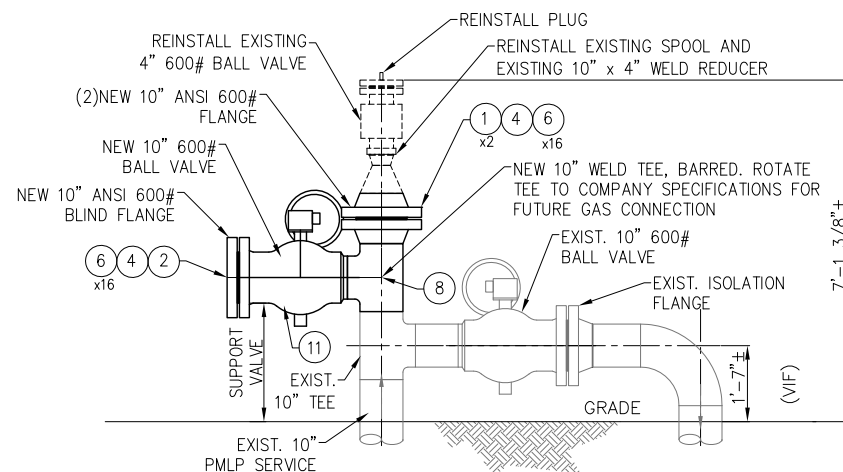
**8" TGP TAP TO 10" PMLP LINE  
 MODIFICATIONS FOR TESTING**

**NOTES:**

1. SEE DWG. No. D-149-03-M02 FOR BILL OF MATERIALS.
2. VIF = VERIFY IN FIELD.
3. CONTRACTOR SHALL VERIFY THAT THE 10" PMLP NATURAL GAS LINE HAS BEN PURGED OF ALL GAS AND ISOLATING VALVES ARE LOCKED CLOSED BEFORE ATTEMPTING TO MODIFY THE LINE FOR TESTING.



**DETAIL E**  
**EXISTING CONDITIONS**  
 SCALE: 1/2" = 1'-0"



**DETAIL F**  
**MODIFICATIONS FOR FUTURE GAS CONNECTION**  
 SCALE: 1/2" = 1'-0"

**10" PMLP LINE  
 MODIFICATIONS FOR TESTING**

**PRELIMINARY**

B	B.O.M., DETAIL F, G, & H EDITS	RJE	12/6/16	MPS
A	FOR REVIEW	JJN	12/15/15	BFS
No.	Description	By	Date	Appd
REVISIONS				



**TRI-MONT** Engineering Co.  
 Plymouth, MA

CLIENT **PEABODY MUNICIPAL LIGHT PLANT**

PROJECT **INSPECTION TOOL PROGRAM**

Title **MODIFICATIONS TO EXISTING ABOVE GROUND PIPING FOR PIGGING**

TRI-MONT	By	Date	Client	By	Date
Drawn	JJN	11/10/15	Approved		
Checked	BFS	12/15/15	Approved		
Approved	BFS	12/15/15	Approved		

Scale: **As Noted** Job No. **D-149-03-M01** Drawing No. **B** Rev. No. **B**





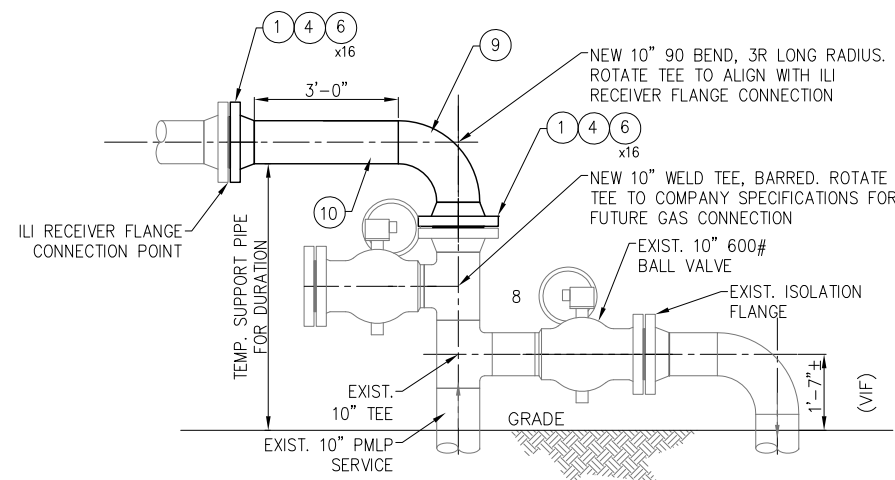
VALVE STATION –  
EXISTING CONDITIONS



TAP STATION –  
EXISTING CONDITIONS

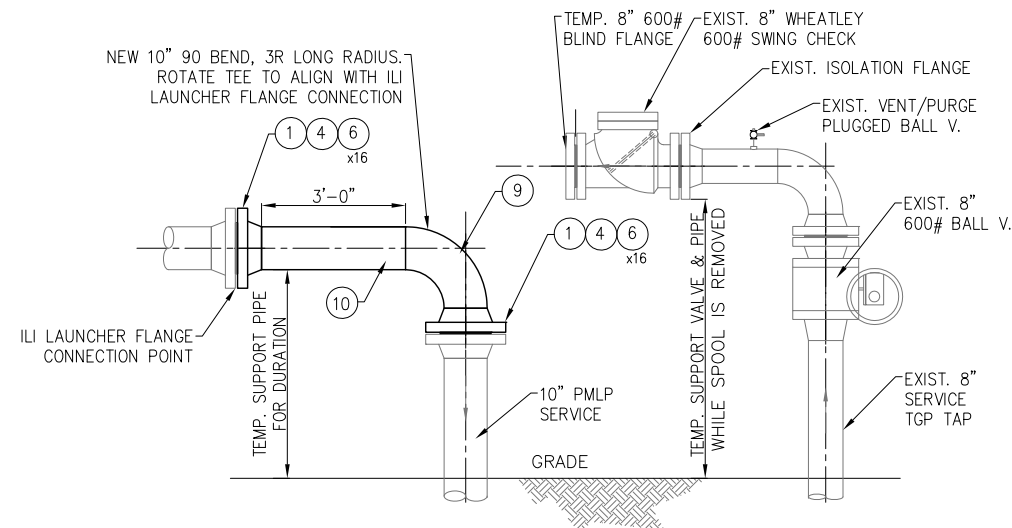
BILL OF MATERIALS				
ITEM	QUANT.	SIZE	DESCRIPTION	NOTES
1	8	10"	CLASS 600 WELD NECK, RF FLANGE	ASTM A105, ANSI B16.5
2	2	10"	CLASS 600 BLIND FLANGE, RF	ASTM A105, ANSI B16.5
3	1	8"	CLASS 600 BLIND FLANGE, RF	ASTM A105, ANSI B16.5
4	8	10"	GASKET, 1/8" THK. 600# SPIRAL WOUND 316SS w/CARBON FILLER, TYPE CGI,	FLEXITALLIC or EQUAL
5	2	8"	GASKET, 1/8" THK. 600# SPIRAL WOUND 316SS w/CARBON FILLER, TYPE CGI,	FLEXITALLIC or EQUAL
6	128	1 1/4"	BOLTS, STUD ASTM A193, GRADE B7, w/ 2 HEX NUTS, A194 GRADE 2H, w/ 1 FLAT WASHER EACH, F436	8 1/2" LONG
7	12	1 1/8"	BOLTS, STUD ASTM A193, GRADE B7, w/ 2 HEX NUTS, A194 GRADE 2H, w/ 1 FLAT WASHER EACH, F436	7 1/2" LONG
8	1	10"	STRAIGHT TEE, BARRED, GR WPC, BTM 0.365" WT	ASTM A234, ANSI B16.9
9	2	10"	90 DEGREE ELBOW, LR, GR WPC, BTM 0.365" WT	ASTM A234, ANSI B16.9
10	6 LF	10"	PIPE, SEAMLESS STEEL, GR C, 10.75" OD X 0.365" WT	ASTM A106
11	1	10"	BALL VALVE WITH GEAR OPERATOR, ANSI 600, WE X RF, XH BORE, API 6D, THREE PIECE, BOLTED BODY, FULL PORT, TRUNNION MOUNTED, CARBON STEEL, HAND WHEEL AND SHOP PRIMER FOR ABOVE GRADE SERVICE	BODY A216 GRADE WCC

PRELIMINARY



DETAIL G  
VALVE STATION – ILI  
RECEIVING CONNECTION

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



DETAIL H  
TAP STATION – ILI  
LAUNCHER CONNECTION

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

NOTES:

1. VF = VERIFY IN FIELD.
2. CONTRACTOR SHALL VERIFY THAT THE 10" PMLP NATURAL GAS LINE HAS BEEN PURGED OF ALL GAS AND ISOLATING VALVES ARE LOCKED CLOSED BEFORE ATTEMPTING TO MODIFY THE LINE FOR TESTING.
3. CONTRACTOR SHALL NOT REUSE GASKETS.

B	B.O.M., DETAIL F, G, & H EDITS	RJE	12/6/16	MPS
A	FOR REVIEW	JJN	12/15/15	BFS
No.	Description	By	Date	Appd
REVISIONS				



CLIENT PEABODY MUNICIPAL LIGHT PLANT

PROJECT INSPECTION TOOL PROGRAM

Title  
MODIFICATIONS TO EXISTING ABOVE GROUND PIPING FOR PIGGING

TRI-MONT	By	Date	Client	By	Date
Drawn	JJN	11/12/15	Approved		
Checked	BFS	12/15/15	Approved		
Approved	BFS	12/15/15	Approved		

Scale:	Job No.	Drawing No.	Rev. No.
As Noted		D-149-03-M02	B

10" TEMPORARY LINE  
MODIFICATIONS FOR PIGGING CONNECTIONS





VALVE STATION –  
EXISTING CONDITIONS




TAP STATION –  
EXISTING CONDITIONS

BILL OF MATERIALS				
ITEM	QUANT.	SIZE	DESCRIPTION	NOTES
1	4	10"	CLASS 600 WELD NECK, RF FLANGE	ASTM A105, ANSI B16.3
2			- NOT USED -	
3	2	8"	CLASS 600 BLIND FLANGE, RF	ASTM A105, ANSI B16.3
4	2	10"	FLANGE ISOLATION KIT WITH ANSI CLASS 600 RF TYPE EDW FF PHENOLIC GASKET	SEE NOTE 5.
5	2	8"	GASKET, 1/8" THK. 600# SPIRAL WOUND 316SS w/CARBON FILLER, TYPE GCI,	FLEXITALLIC or EQUAL
6	32	1 1/4"	BOLTS, STUD ASTM A-193, CLASS 2A GRADE B-7, w/ 2 HEX NUTS w/ 1 FLAT WASHER EACH, CLASS 2B, GRADE 2H	8 1/4" LONG
7	12	1 1/8"	BOLTS, STUD ASTM A-193, CLASS 2A GRADE B-7, w/ 2 HEX NUTS w/ 1 FLAT WASHER EACH, CLASS 2B, GRADE 2H	MATCH EXIST.
8	2	10"	ANSI CLASS 600 RF TYPE EDW FF PHENOLIC GASKET	AS SPARES

NOTES:

1. VIF = VERIFY IN FIELD.
2. CONTRACTOR SHALL VERIFY THAT THE 10" PMLP NATURAL GAS LINE HAS BEN PURGED OF ALL GAS AND ISOLATING VALVES ARE LOCKED CLOSED BEFORE ATTEMPTING TO MODIFY THE LINE FOR CLEANING AND IN-LINE INSPECTION.
3. CONTRACTOR SHALL NOT REUSE GASKETS.
4. OPEN ENDS OF ALL PIPE SHALL BE COVERED/SEALED TO PREVENT DEBRIS FROM ENTERING THE PIPE UNTIL PIPE IS REASSEMBLED.
5. A FLANGE ISOLATION KIT SHALL CONTAIN AN ANSI CLASS 600 RF, TYPE EDW, FULL FACE PHENOLIC GASKET, FOR NATURAL GAS SERVICE, WITH 1 PHENOLIC SLEEVE, 2 PHENOLIC and 2 FLAT WASHERS PER BOLT

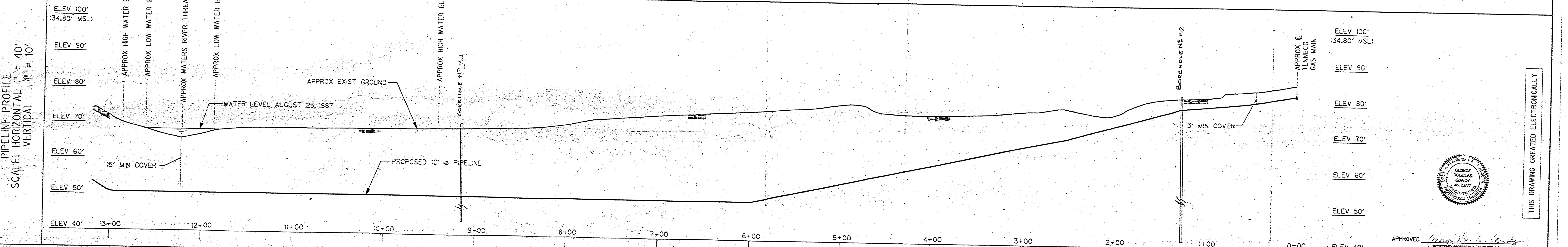
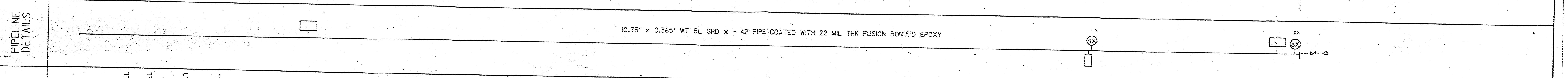
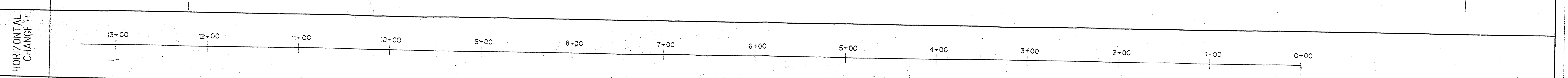
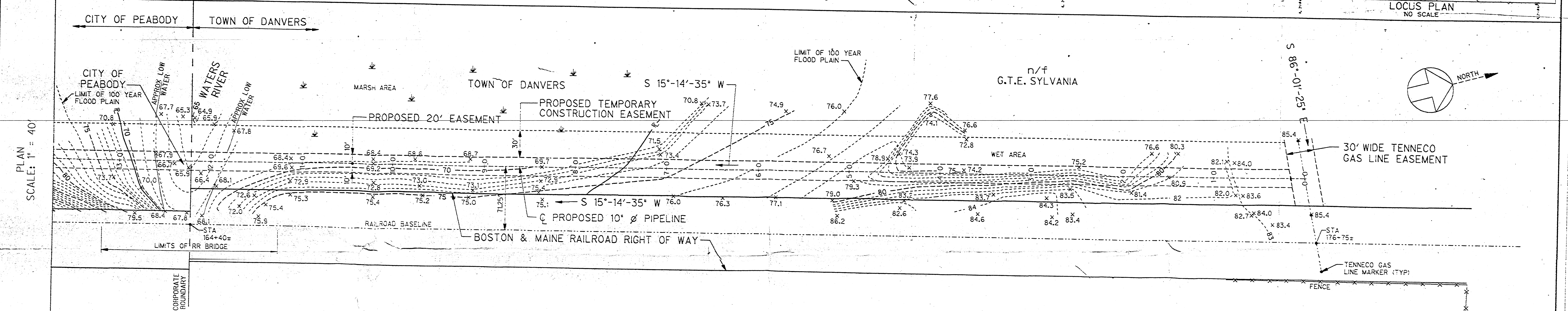
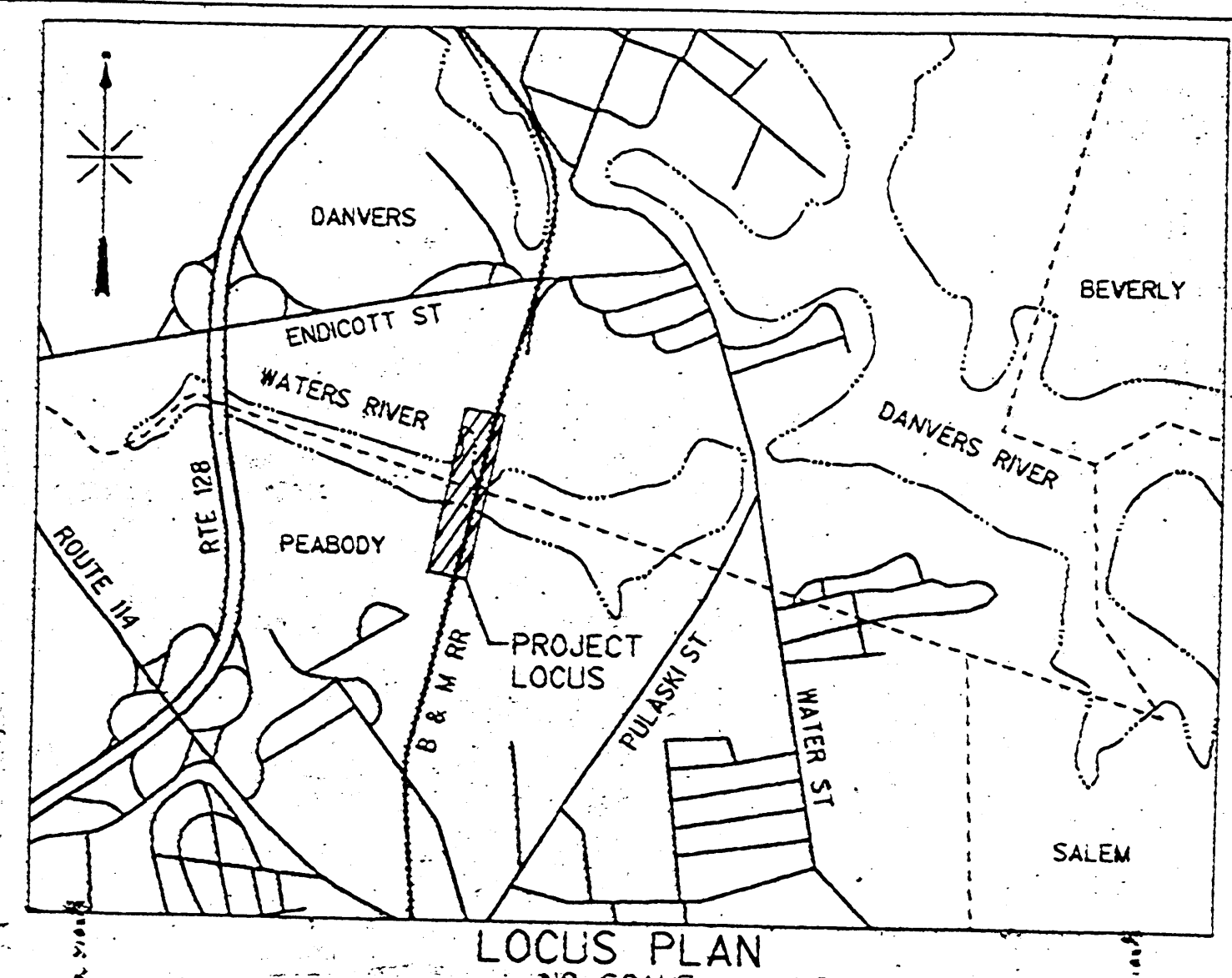
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No.	Description	By	Date	Appd	
REVISIONS					
 <b>TRI-MONT</b> Engineering Co. Plymouth, MA					
CLIENT		PEABODY MUNICIPAL LIGHT PLANT			
PROJECT		INSPECTION TOOL PROGRAM			
Title		MODIFICATIONS TO EXISTING ABOVE GROUND PIPING FOR PIGGING			
TRI-MONT	By	Date	Client	By	Date
Drawn	JUN	11/12/15	Approved		
Checked	BFS	12/15/15	Approved		
Approved	BFS	12/15/15	Approved		
Scale:	As Noted	Job No.	Drawing No.	Rev. No.	
			D-149-03-M02	0	

**Attachment 7.3**  
**Existing conditions documents**  
**(Plans, Sketches, Directional Drill Report)**



PEABODY/DANVERS (ESSEX COUNTY) MASSACHUSETTS

LOCATION	PEABODY/DANVERS (ESSEX COUNTY) MASSACHUSETTS			
INST. NO.				
LAND AREA				
OWNER	n/f N.E. POWER COMPANY	CITY OF PEABODY	TOWN OF DANVERS	n/f G. T. E. SYLVANIA
VEGETATION	PHRAGMITES COMMUNIS	WATERS RIVER	SPARTINA ALTERNIFLORA	SPARTINA PATENS
MATERIAL	DISTICHLUS SPICATA			
	PHRAGMITES COMMUNIS			



PIPE INVENTORY

—T—	TELEPHONE OR TELEGRAPH LINE
—P—	P.L. OR DEFLECTION POINT
—O—	POWER LINE
—M—	MILE POST
—G—	GATE BOX
—X—	FENCE
—C—	PIPELINE CROSSING
—D—	CABLE CROSSING
—E—	CABLE

LEGEND

—C—	CARRIER PIPE
—S—	CONCRETE SLABS
—W—	SWAMP WEIGHTS
—K—	SWAGE CONNECTION
—W—	WARNING SIGNS
—B—	BLOCK VALVE
—L—	TEST LEAD
—M—	P/L MARKER
—A—	ANODES

REFERENCE DRAWINGS

TITLE	DWG. NO.
ALIGNMENT SHEET #1 0+00 TO 13+00	17382-EY-001
ALIGNMENT SHEET #2 7+00 TO 13+47.07	17382-EY-002
B & M RR CROSSING	17382-BP-001
WATERS RIVER CROSSING DETAILS	17382-BP-002

NOTES

- EXISTING TOPOGRAPHY BY DAVID D. LANATA & ASSOC., INC. DATED SEPT. 1, 1987.
- VERTICAL DATUM IS BASED ON PEABODY MUNICIPAL LIGHT PLANT DATUM (ELEV 100.00' = 34.80' MEAN SEA LEVEL).
- CONTRACTOR TO ESTABLISH LIMITS OF EASEMENT PRIOR TO COMMENCING WORK.
- DISTANCES ALONG PIPELINE ARE IN FEET.
- ALL ANGLES ARE TO BE VERIFIED IN FIELD.
- PROFILE IS BASED ON EXISTING GRADE ELEVATION.

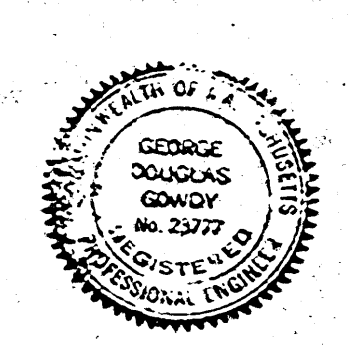
DESIGN	J. G. OLIVER	DATE	
CHECKED	S. L. MONICCA	CONST. CERT. BY	
DATE		DATE	

STONE & WEBSTER ENGINEERING CORPORATION

CLIENT: PEABODY MUNICIPAL LIGHT PLANT, PEABODY, MASSACHUSETTS

TITLE: PEABODY/DANVERS SUPPLY LINE ALIGNMENT SHEET #1 0+00 TO 13+00

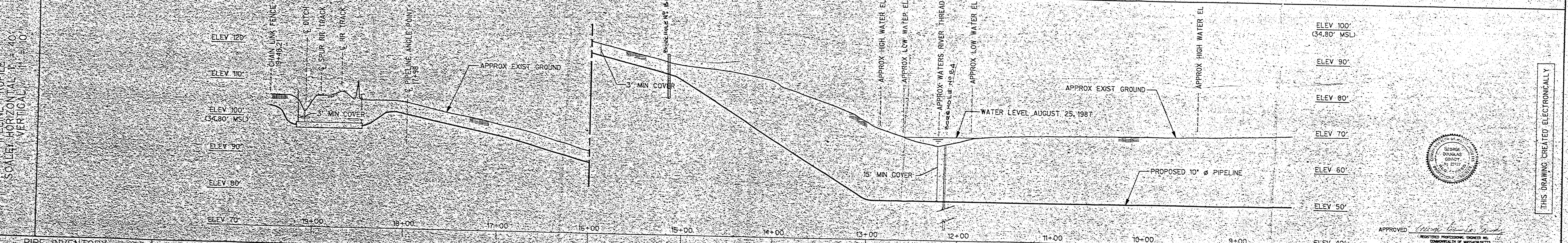
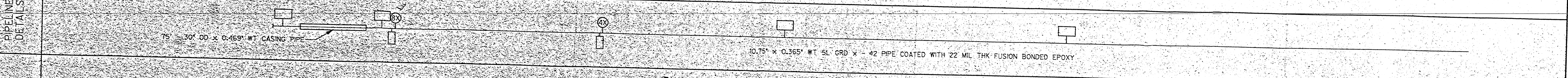
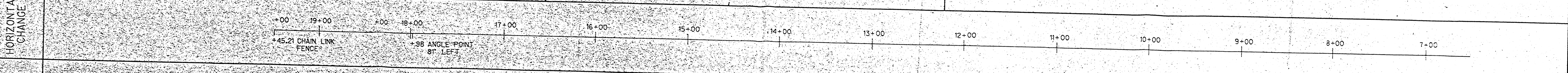
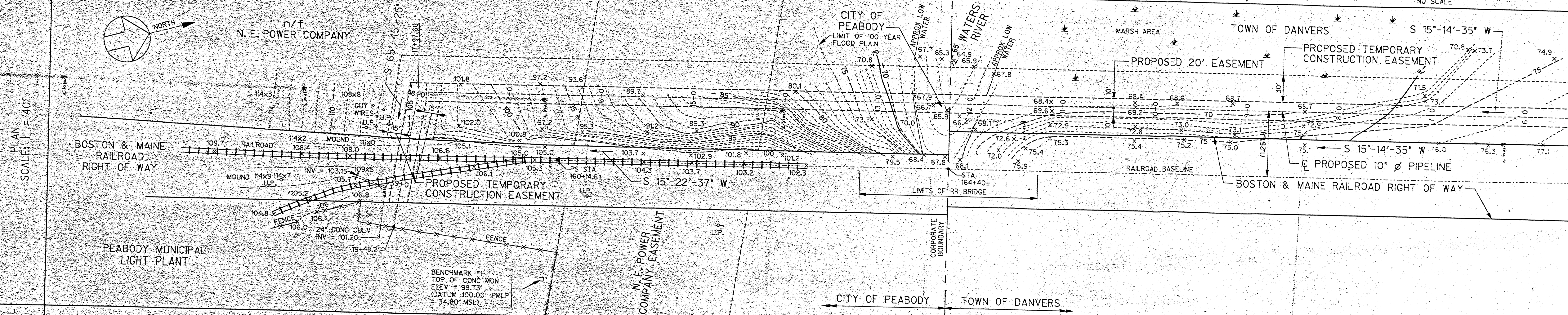
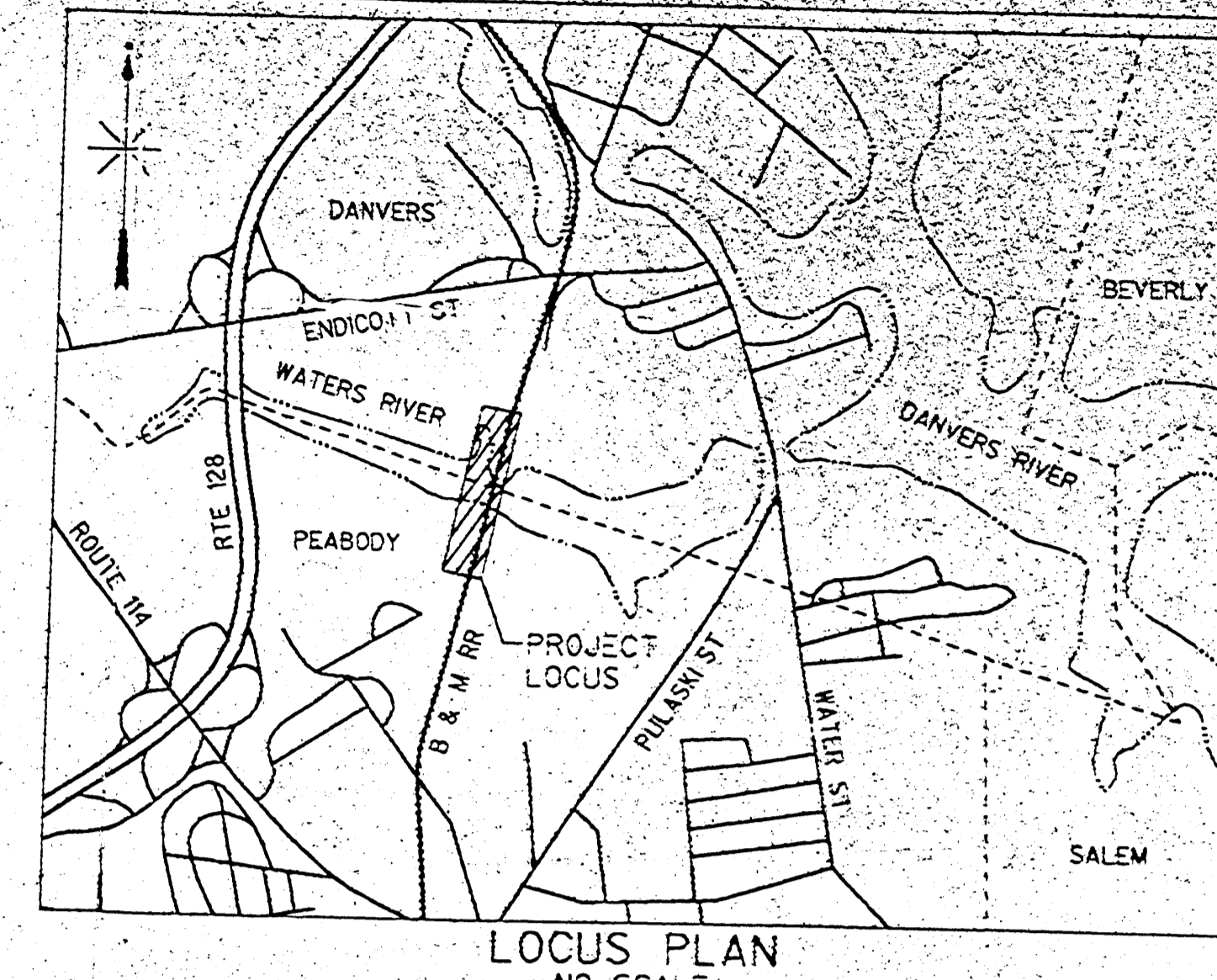
AREA: 17382 DWG. NO.: EY-001



THIS DRAWING CREATED ELECTRONICALLY

PEABODY/DANVERS (ESSEX COUNTY) MASSACHUSETTS

LOCATION	PEABODY/DANVERS (ESSEX COUNTY) MASSACHUSETTS				
INST. NO.					
LAND AREA					
OWNER	PEABODY MUNICIPAL LIGHT PLANT	B&M RAILROAD	N/E. POWER COMPANY	CITY OF PEABODY	TOWN OF DANVERS
VEGETATION	OPEN AREA- GRASS & BUSHES				
MATERIAL	PHRACMITES COMMUNS		WATERS RIVER	SPARTINA ALTERNIFLORA	



PIPE INVENTORY

T	TELEPHONE OR TELEGRAPH LINE
P	P.L. OR DEFLECTION POINT
W	POWER LINE
M	MILE POST
G	GATE BOX
F	FENCE
C	PIPELINE CROSSING
D	CABLE CROSSING
—	CABLE

LEGEND

—	CARRIER PIPE
—	CONCRETE SLABS
—	SWAMP WEIGHTS
—	SWAGE CONNECTION
—	WARNING SIGNS
—	BLOCK VALVE
—	TEST LEAD
—	P/L MARKER
—	ANODES

REFERENCE DRAWINGS

TITLE	DWG. NO.
ALIGNMENT SHEET #1 0+00 TO 13+00	17382-EY-001
ALIGNMENT SHEET #2 13+00 TO 19+47.07	17382-EY-002
B & M RR CROSSING	17382-SP-001
WATERS RIVER CROSSING DETAILS	17382-SP-002

NOTES

- EXISTING TOPOGRAPHY BY DAVID D. LANATA & ASSOC., INC. DATED SEPT. 4, 1987.
- VERTICAL DATUM IS BASED ON PEABODY MUNICIPAL LIGHT PLANT DATUM (ELEV 100.00' ± 34.80' MEAN SEA LEVEL).
- CONTRACTOR TO ESTABLISH LIMITS OF EASEMENT PRIOR TO COMMENCING WORK.
- DISTANCES ALONG PIPELINE ARE IN FEET.
- ALL ANGLES ARE TO BE VERIFIED IN FIELD.
- PROFILE IS BASED ON EXISTING GRADE ELEVATION.

ISS	DATE	REVISION	BY	CHK	APP
2	4.28.88	REVISED FOR P.L.	AKF	HGD	
1	11/16/87	P/L REDESIGNED FOR DIRECTIONAL DRILLING, ADDED NOTE & LOCUS PLAN	AKF	HGD	
0	10/15/87	ORIGINAL ISSUE	AKF	HGD	

APPROVALS

DATE	SCALE	AS NOTED	DATE	BY

DESIGN: R.G. OLIVER  
 CHECKED: S. LEMONICA  
 DRAWN: S. LEMONICA  
 CHECKED: [Signature]

STONE & WEBSTER ENGINEERING CORPORATION  
 CLIENT: PEABODY MUNICIPAL LIGHT PLANT, PEABODY, MASSACHUSETTS  
 TITLE: PEABODY/DANVERS SUPPLY LINE ALIGNMENT SHEET #2 7+00 TO 19+47.07  
 AREA: J. O. NUMBER: 17382, DWG. NO.: EY-002, ISSUE: 2

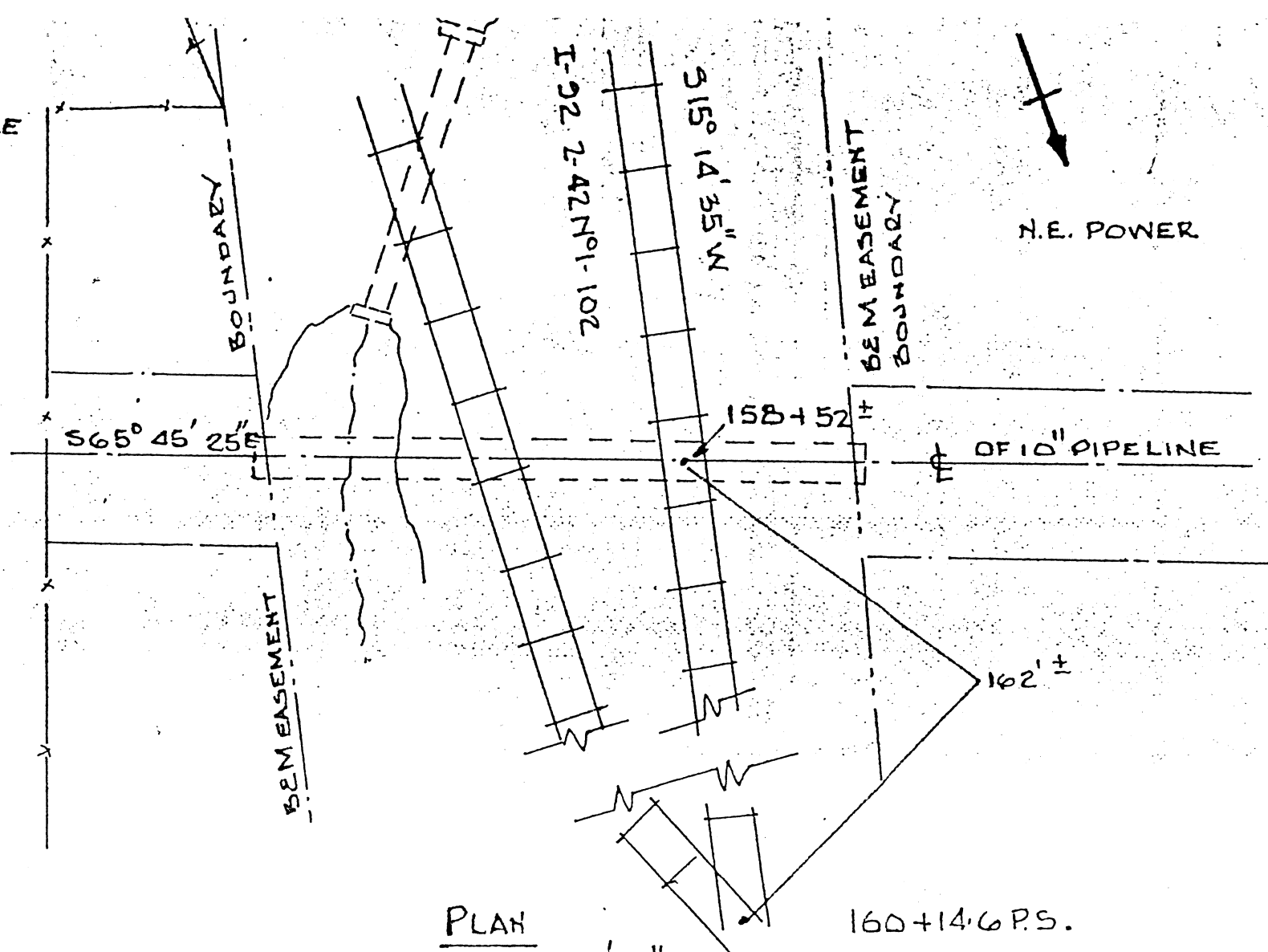
THIS DRAWING CREATED ELECTRONICALLY



APPROVED [Signature]  
 GEORGE DOUGLAS OLIVER  
 REGISTERED PROFESSIONAL ENGINEER IN COMMONWEALTH OF MASSACHUSETTS

EXISTING FENCE

P.M.L.P.

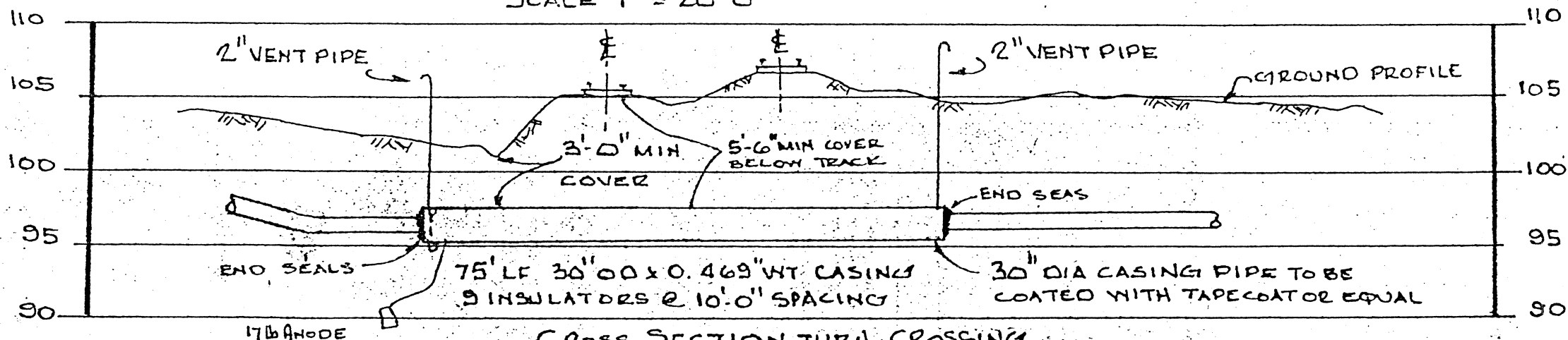


N.E. POWER

PLAN

SCALE 1" = 20'-0"

160+14.6 P.S.



CROSS SECTION THRU CROSSING

SCALE HOR. 1" = 20'-0"  
VERT 1" = 10'-0"

**SPECIFICATIONS**

American Railway Engineering Assn. P1 5.0  
S.O.T. CFR 49 FR 197  
A.N.S.I. 831.4 Std for Gas Transmission  
BEM RR Policies & Specifications Section III

Product: Natural Gas

PIPE DETAILS:

Line Pipe: 30" 00 x 0.469" WT  
A.P.S. 2. Std 2-12

Casing Pipe: 30" 00 x 0.469" WT

Max Operating Pressure: 140 psi

Hydrostatic Test Pressure: 1120 psi

Elevations are based on BM located

in P.M.L.P. property

BM 100.00 = 34.0' datum

Location of crossing obtained  
from BEM Track Map

Station 147+80 to Station 200+80

WATERS RIVER (V7-12/4)

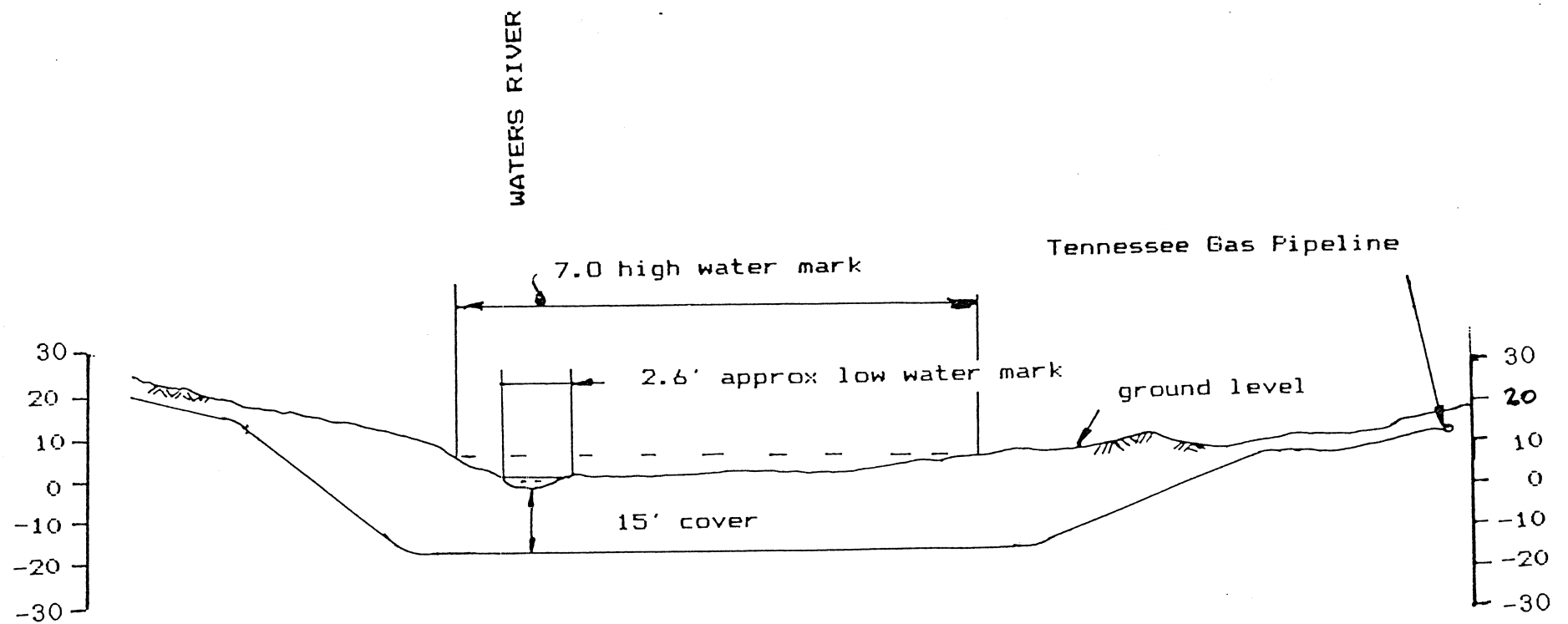
**NOTE:**

All work shall be performed in accordance  
with the latest edition of the Standard  
Railroad Specifications of the  
GTI Rail Division.

CASING TO BE INSTALLED BY  
JACKING METHOD.



2	ISSUED FOR BID	7/80	4/29	SCALE AS SHOWN	STONE & WEBSTER ENGINEERING CORPORATION PROPOSED PIPELINE CROSSING OF BEM RR. PEABODY, MA			
1	ISSUED FOR PERMIT	4/0	2/22	DESIGN				
0	ISSUED FOR REVIEW	7/0	10/98	CHECKED				
NO.	REVISION DESCRIPTION	BY	DATE	DRAWN	AREA	J.O. NO.	DRAWING NO.	ISSUE
	CERT. FOR FAB.		APPROVED	CHECKED		17382	BP-001	01



PROFILE OF PROPOSED 10" PIPELINE

Scale. Horizontal 1" = 200ft  
Vertical 1" = 40ft

SPECIFICATIONS:  
 Linepipe 10.75" OD X 0.369" WT  
 A.P.I. 5L Grd. X-42  
 Coating Fusion Bonded Epoxy  
 Max. Operating Pressure 900psi  
 Test Pressure 1125psi

Level data obtained from BM located within PMLP property and referenced to M.S.L.

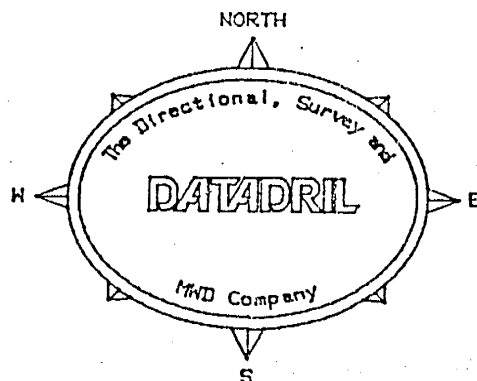
Plan accompanying petition of.. Peabody Municipal Light Plant

1 ISSUED FOR BLD		S.W.		SCALE 1/4"		<b>STONE &amp; WEBSTER ENGINEERING CORPORATION</b> PROFILE OF PROPOSED GAS PIPELINE (PMLP, MA)			
0 ISSUED FOR PERMIT				DESIGN 7b					
NO	REVISION DESCRIPTION	BY	DATE	DRAWN	AREA	I.O. NO.	DRAWING NO.	ISSUE	
	CERT FOR FAB	CERT FOR CONST.	APPROVED	CHECKED		17382	BP-002	01	

# DATA DRIL

## REPORT of RIVER CROSSING SURVEY

MICHELS PIPELINE CONSTRUCTION  
WATER RIVER PIPELINE CROSSING  
PEABODY, MASSACHUSETTS





## DATADRIL

MICHELS PIPELINE CONSTRUCTION  
 WATER RIVER PIPELINE CROSSING  
 PEARBODY, MASSACHUSETTS

DIRECTIONAL DRILLER:  
 MATT THOMPSON  
 SST/ SHAREWELL SST

File Name: MICROST

\*\*\* RECORD OF SURVEY \*\*\*  
 Calculated by DATADRIL's CADDs System

Radius of Curvature Method  
 All Angles are Decimal  
 Vertical Section Plane: N 31.20 E

TYPE OF SURVEY	MEASURED DEPTH (FT)	INCL ANGLE (DEG)	D R I F T DIRECTION (DEG)	COURSE LENGTH (FT)	TOTAL VERTICAL DEPTH	T O T A L RECTANGULAR COORDINATES (FT)		VERTICAL SECTION (FT)	DOGLEG SEVERITY (DEG/100')
ST	0.00	74.50	N 29.50 E	0.00	0.00	0.00 N	0.00 E	0.00	0.00
ST	34.10	74.50	N 29.50 E	34.10	9.11	28.60 N	16.18 E	32.84	0.00
ST	64.70	79.30	N 28.50 E	30.60	16.05	54.66 N	30.63 E	62.62	16.01
ST	94.80	83.60	N 24.70 E	30.10	20.52	81.26 N	43.95 E	92.27	18.97
ST	124.90	86.00	N 24.60 E	30.10	23.25	108.50 N	56.45 E	122.05	7.98
ST	155.30	88.00	N 25.50 E	30.40	24.84	136.01 N	69.30 E	152.23	7.21
ST	186.30	86.80	N 27.80 E	31.00	26.25	163.68 N	83.19 E	183.10	8.36
ST	216.60	85.30	N 29.40 E	30.30	28.33	190.22 N	97.66 E	213.30	7.23
ST	247.70	85.50	N 33.20 E	31.10	30.83	216.70 N	113.76 E	244.29	12.20
ST	277.70	85.00	N 31.20 E	30.00	33.31	242.00 N	129.69 E	274.18	6.85
ST	308.00	86.70	N 28.90 E	30.30	35.50	268.16 N	144.82 E	304.39	9.42
ST	339.30	89.40	N 29.00 E	31.30	36.57	295.53 N	159.96 E	335.65	8.63
ST	369.60	90.10	N 32.50 E	30.30	36.70	321.56 N	175.45 E	365.94	11.78
ST	400.70	87.20	N 32.00 E	31.10	37.43	347.85 N	192.04 E	397.02	9.46
ST	431.30	86.60	N 32.00 E	30.60	39.09	373.77 N	208.23 E	427.58	1.96
ST	461.40	88.00	N 29.70 E	30.10	40.51	399.58 N	223.65 E	457.64	8.94
ST	491.90	88.10	N 30.00 E	30.50	41.54	426.01 N	238.82 E	488.11	1.04
ST	522.40	90.00	N 31.20 E	30.50	42.05	452.26 N	254.35 E	518.61	7.37
ST	553.00	89.80	N 32.00 E	30.60	42.10	478.32 N	270.38 E	549.21	2.69
ST	583.80	91.80	N 30.70 E	30.80	41.67	504.62 N	286.40 E	580.00	7.74
ST	614.40	90.80	N 32.20 E	30.60	40.98	530.72 N	302.36 E	610.59	5.89

## DATADRIL

MICHELS PIPELINE CONSTRUCTION  
WATER RIVER PIPELINE CROSSING

PEABODY, MASSACHUSETTS

TYPE OF SURVEY	MEASURED DEPTH (FT)	INCL ANGLE (DEG)	D R I F T DIRECTION (DEG)	COURSE LENGTH (FT)	TOTAL VERTICAL DEPTH	T O T A L RECTANGULAR COORDINATES (FT)		VERTICAL SECTION (FT)	DOGLEG SEVERITY (DEG/100')
ST	643.80	90.40	N 32.70 E	29.40	40.67	555.53 N	318.14 E	639.98	2.18
ST	674.70	91.60	N 32.80 E	30.90	40.13	581.51 N	334.85 E	670.87	3.90
ST	705.60	90.60	N 31.50 E	30.90	39.54	607.67 N	351.29 E	701.75	5.31
ST	736.70	89.40	N 30.10 E	31.10	39.54	634.38 N	367.21 E	732.85	5.93
ST	766.90	89.60	N 30.30 E	30.20	39.80	660.48 N	382.40 E	763.05	.94
ST	797.60	89.90	N 29.60 E	30.70	39.94	687.08 N	397.73 E	793.74	2.48
ST	828.60	89.40	N 29.10 E	31.00	40.13	714.10 N	412.92 E	824.72	2.28
ST	859.20	89.70	N 28.50 E	30.60	40.37	740.91 N	427.67 E	855.29	2.19
ST	888.90	90.70	N 28.50 E	29.70	40.26	767.01 N	441.84 E	884.96	3.37
ST	919.50	90.60	N 29.20 E	30.60	39.92	793.81 N	456.60 E	915.53	2.31
ST	950.50	92.90	N 30.30 E	31.00	38.97	820.71 N	471.97 E	946.51	8.22
ST	981.50	91.40	N 31.20 E	31.00	37.81	847.34 N	487.81 E	977.48	5.64
ST	1012.80	88.10	N 34.40 E	31.30	37.94	873.64 N	504.76 E	1008.76	14.69
ST	1043.80	88.20	N 37.00 E	31.00	38.94	898.80 N	522.84 E	1039.65	8.39
ST	1074.50	91.00	N 39.10 E	30.70	39.16	922.97 N	541.76 E	1070.12	11.40
ST	1105.70	89.50	N 37.80 E	31.20	39.02	947.40 N	561.16 E	1101.07	6.36
ST	1136.50	92.00	N 34.10 E	30.80	38.62	972.33 N	579.24 E	1131.75	14.50
ST	1168.50	94.90	N 33.00 E	32.00	36.69	998.94 N	596.89 E	1163.67	9.69
ST	1199.50	96.10	N 31.50 E	31.00	33.72	1025.04 N	613.35 E	1194.52	6.18
ST	1231.30	96.90	N 30.90 E	31.80	30.12	1052.06 N	629.72 E	1226.11	3.14
ST	1263.00	95.70	N 32.10 E	31.70	26.64	1078.93 N	646.18 E	1257.62	5.34
ST	1294.60	94.70	N 31.80 E	31.60	23.78	1105.63 N	662.84 E	1289.08	3.30
ST	1325.80	96.00	N 32.00 E	31.20	20.87	1132.00 N	679.25 E	1320.15	4.22
ST	1357.40	99.60	N 30.80 E	31.60	16.58	1158.72 N	695.56 E	1351.45	12.00
ST	1388.90	104.80	N 30.70 E	31.50	9.93	1185.17 N	711.30 E	1382.22	16.51
ST	1420.40	104.80	N 30.70 E	31.50	1.88	1211.36 N	726.84 E	1412.68	0.00
ST	1452.00	104.80	N 30.70 E	31.60	-6.19	1237.63 N	742.44 E	1443.23	0.00

BOTTOM HOLE CLOSURE: 1443.24 Feet at N 30.96 Degrees E

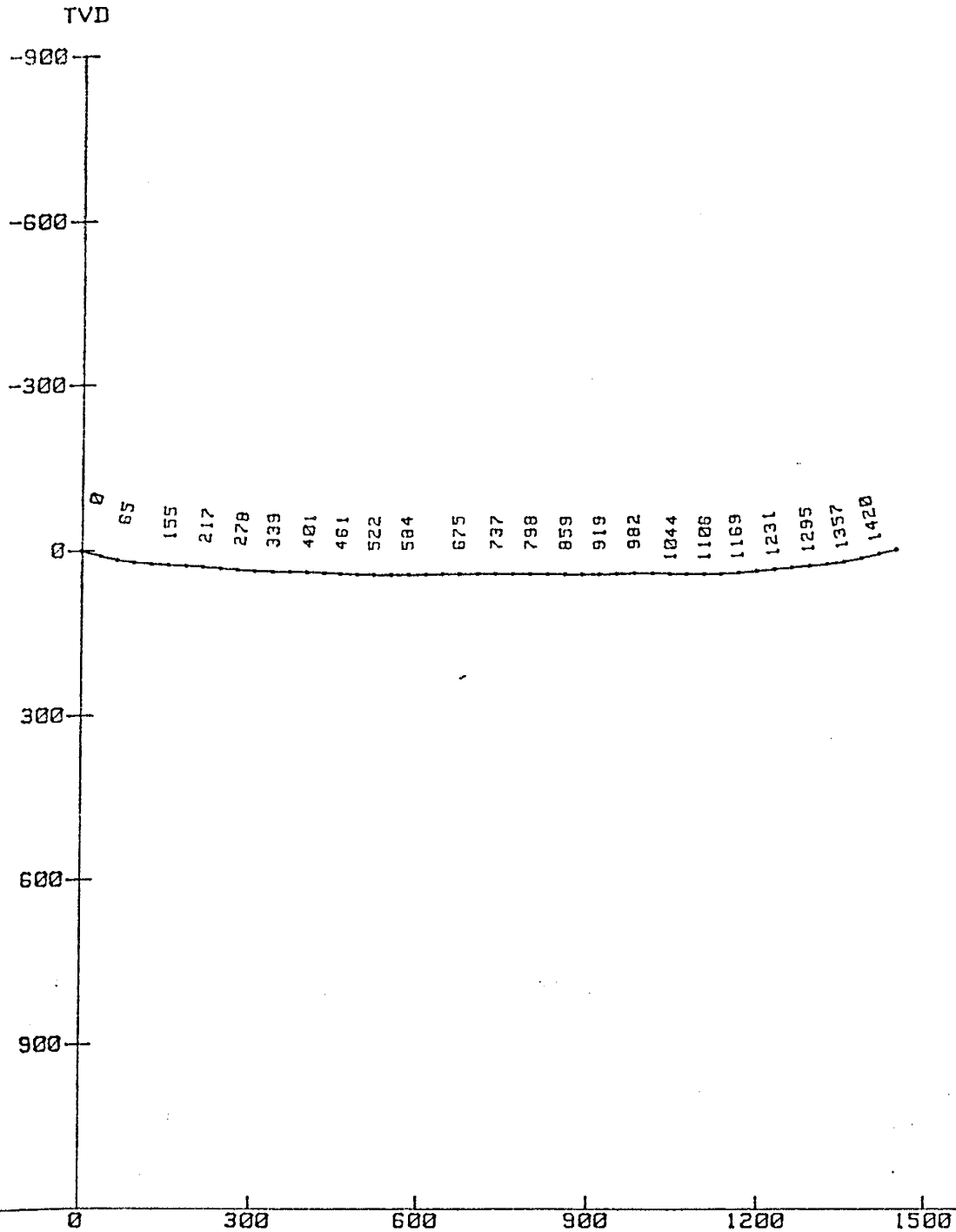
MICHEL'S PIPELINE CONSTRUCTION  
WATER RIVER PIPELINE CROSSING  
PEARBODY, MASSACHUSETTS

29 JUL 1988 @ 9:38

# DATA DRILL

VERTICAL PLOT

SCALE: 300 FEET/INCH



VERTICAL SECTION  
SECTION PLANE: N 31.20 E

BHL: 1443 FEET  
@ N 30.96 E  
TVD: -6 FEET  
MD: 1452 FEET

MICHELS PIPELINE CONSTRUCTION  
WATER RIVER PIPELINE CROSSING  
PERBODY, MASSACHUSETTS

29 JUL 1988 @ 9:30

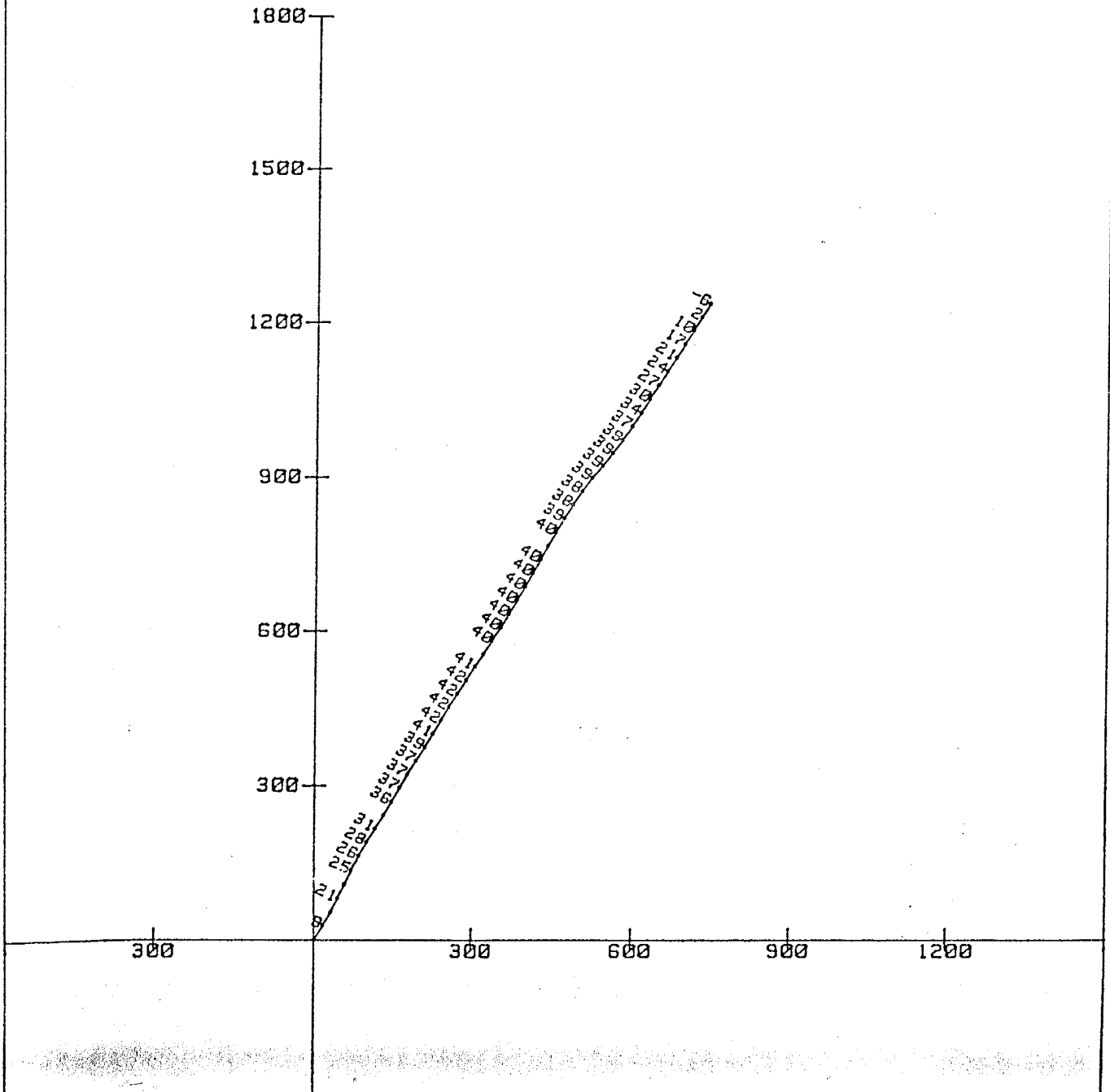
# DATA DRILL

HORIZONTAL PLOT



SCALE: 300 FEET/INCH

BHL: 1443 FEET  
@ N 30.96 E  
TVD: -6 FEET  
MD: 1452 FEET



Line pipe

40	1
43	5
40	4
42	7
43	9
10	11
8	7
43	7
39	5
39	10
42	8
42	7
40	3
21	11
43	2
40	6
40	
44	3
44	4
39	4
41	7
42	3
43	9
42	2
42	9
42	10
43	3
41	6
43	7
40	8
42	8
44	6
44	
43	5
42	9
43	9
43	5
42	11
43	5
43	7
42	9
42	11
44	9
44	11
21	5
tube turn	
39	4
42	5
42	10
1931	7

Fabrication

36	1
41	7
40	9
9	10
tee	
4	10
tubr turn	
2	5
2	9
138	3

MATCH LINE TO SHEET 5

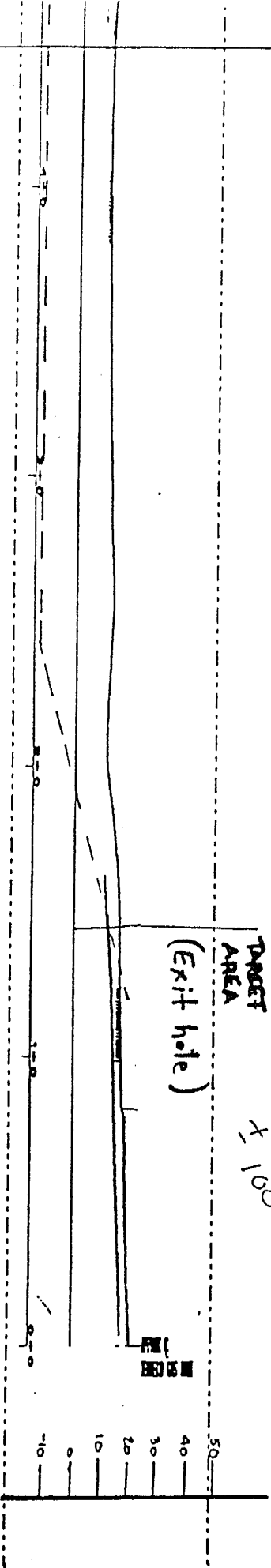
DANVERS

100' BUFFER ZONE

TARGET AREA  
(Exit hole)

± 100'

TENNECO  
GAS  
LINE

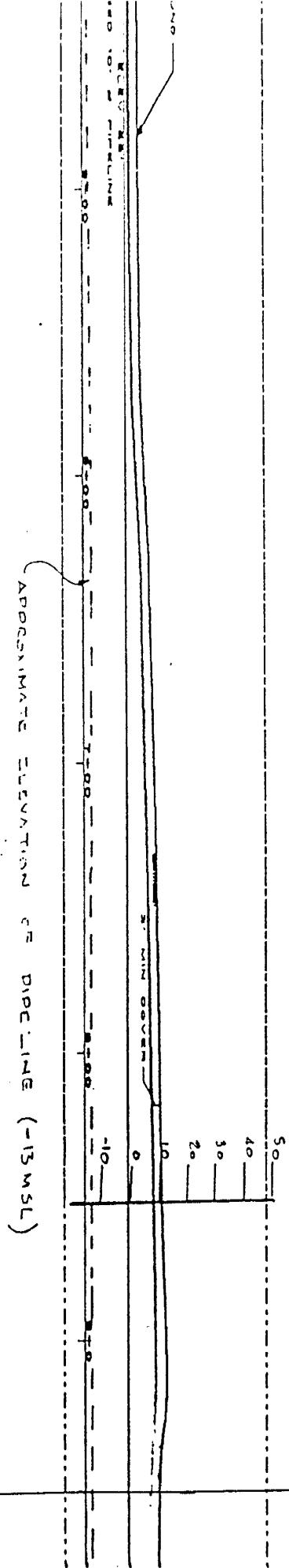


APPROVED	SCALE 1" = 40'	
CERT. NO. / TAB	DESIGN NO.	
CERT. TO COMPLY	CHECKED	DATE
	DRAWN	AREA
	CHECKED	

LOCATION PLAN  
 FOR: Peabody Municipal Light Plant  
 AT: Peabody, Danvers, MA  
 SCALE: 1" = 52'  
 SHEET: 6 of 6

DATE: 12-15-

6



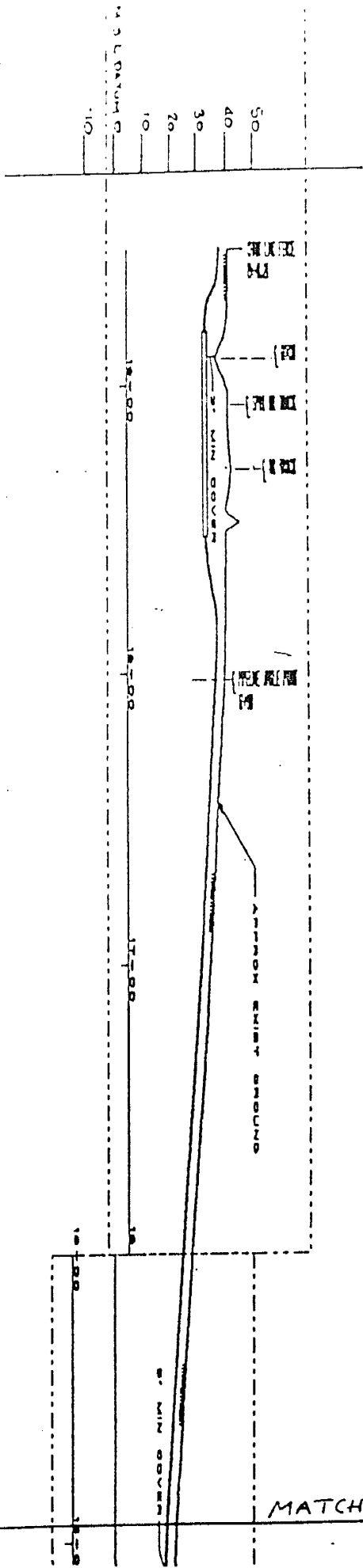
LOCATION PLAN  
 FOR: Peabody Municipal Light Plant  
 AT: Peabody / Danvers, MA  
 SCALE: 1" = 52'  
 SHEET: 5 of 6

DATE: 12-11

MATCH LINE TO SHEET 6

5





PEABODY

LOCATION PLAN  
 FOR: Peabody Municipal Light Plant  
 AT: Peabody/Danvers, MA  
 SCALE: 1" = 50'  
 SHEET: 3 of 6  
 DATE: 12-4-

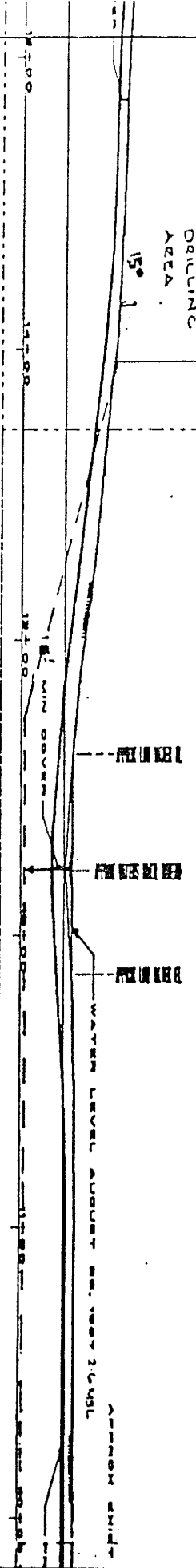
MATCH LINE TO SHEET 4

MATCH LINE TO SHEET 3

ENTRY  
HOLE

DOLLING  
AREA

WATERS RIVER



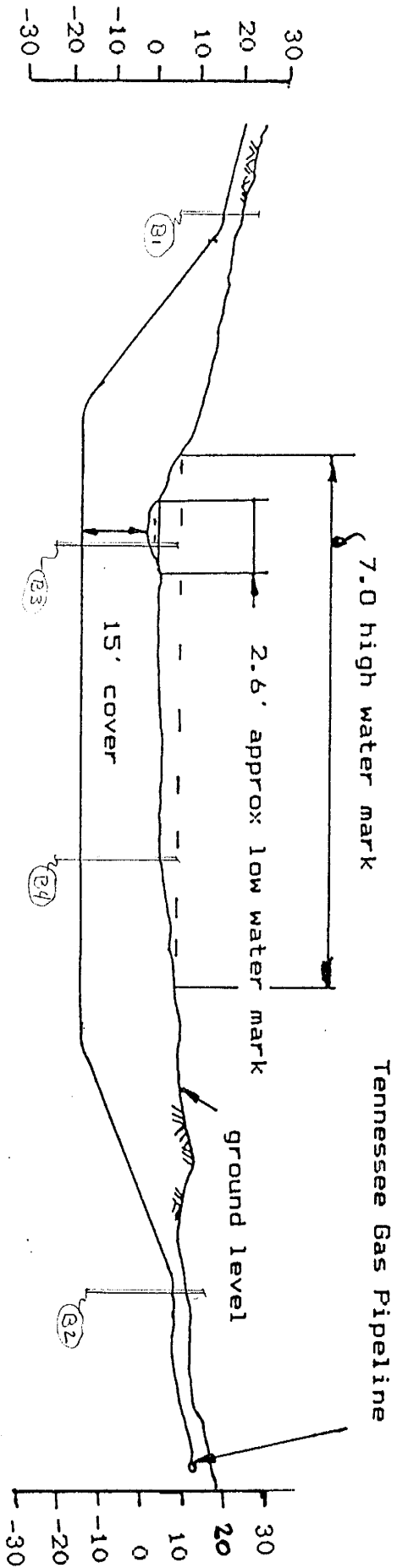
SCALE 1" = 50 FT HORIZONTAL  
 1/2" = 50 FT VERTICAL

LOCATION PLAN  
 FOR: *Peabody Municipal Light Plant*  
 AT: *Peabody/Danvers, MA*  
 SCALE: 1" = 50'  
 SHEET: 4 of 6

DATE: 12-15-8

MATCH LINE TO SHEET 5

WATERS RIVER



Tennessee Gas Pipeline

PROFILE OF PROPOSED 10" PIPELINE

Scale. Horizontal 1" = 200ft  
Vertical 1" = 40ft

SPECIFICATIONS:  
 Linepipe 10.75" OD X 0.369" WT  
 A.P.I. 5L Grd. X-42  
 Coating Fusion Bonded Epoxy

Level data obtained from BM located within PMLP property and referenced to M.S.L.

Max. Operating Pressure 900psi  
 Test Pressure 1125psi

Plan accompanying petition of. Peabody Municipal Light Plan.

1	ISSUED FOR BUD		SCALE	1" = 200'	STONE & WEBSTER ENGINEERING CORPORATION PROFILE OF PROPOSED GAS PIPELINE (PMLP. MA)
0	ISSUED FOR PERMIT		DESIGN	1" = 40'	
	REVISION DESCRIPTION	BY	DATE	CHECKED	AREA
	CERT FOR FAB		APPROVED	CHECKED	10. NO.
	CERT FOR CONST				DRAWING NO.
					17382
					BP-002

**Attachment 7.4 - Prevailing Wage Rates**



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

**Prevailing Wage Rates**

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

RONALD L. WALKER, II  
Secretary  
WILLIAM D MCKINNEY  
Director

CHARLES D. BAKER  
Governor

KARYNE POLITO  
Lt. Governor

**Awarding Authority:** Peabody Municipal Lighting Commission  
**Contract Number:** **City/Town:** PEABODY  
**Description of Work:** Perform in-line inspection (AKA pigging) of PMLP's approximately 1/2 mile long 10" natural gas pipeline.  
**Job Location:** Peabody

Information about Prevailing Wage Schedules for Awarding Authorities and Contractors

- This wage schedule applies only to the specific project referenced at the top of this page and uniquely identified by the "Wage Request Number" on all pages of this schedule.
- An Awarding Authority must request an updated wage schedule from the Department of Labor Standards ("DLS") if it has not opened bids or selected a contractor within 90 days of the date of issuance of the wage schedule. For CM AT RISK projects (bid pursuant to G.L. c.149A), the earlier of: (a) the execution date of the GMP Amendment, or (b) the bid for the first construction scope of work must be within 90-days of the wage schedule issuance date.
- The wage schedule shall be incorporated in any advertisement or call for bids for the project as required by M.G.L. c. 149, § 27. The wage schedule shall be made a part of the contract awarded for the project. The wage schedule must be posted in a conspicuous place at the work site for the life of the project in accordance with M.G.L. c. 149 § 27. The wages listed on the wage schedule must be paid to employees performing construction work on the project whether they are employed by the prime contractor, a filed sub-bidder, or any sub-contractor.
- All apprentices working on the project are required to be registered with the Massachusetts Department of Labor Standards, Division of Apprentice Standards (DLS/DAS). Apprentice must keep his/her apprentice identification card on his/her person during all work hours on the project. An apprentice registered with DAS may be paid the lower apprentice wage rate at the applicable step as provided on the prevailing wage schedule. **Any apprentice not registered with DLS/DAS regardless of whether or not they are registered with any other federal, state, local, or private agency must be paid the journeyworker's rate for the trade.**
- The wage rates will remain in effect for the duration of the project, except in the case of multi-year public construction projects. For construction projects lasting longer than one year, awarding authorities must request an updated wage schedule. Awarding authorities are required to request these updates no later than two weeks before the anniversary of the date the contract was executed by the awarding authority and the general contractor. For multi-year CM AT RISK projects, awarding authority must request an annual update no later than two weeks before the anniversary date, determined as the earlier of: (a) the execution date of the GMP Amendment, or (b) the execution date of the first amendment to permit procurement of construction services. Contractors are required to obtain the wage schedules from awarding authorities, and to pay no less than these rates to covered workers. The annual update requirement is not applicable to 27F "rental of equipment" contracts.
- Every contractor or subcontractor which performs construction work on the project is required to submit weekly payroll reports and a Statement of Compliance directly to the awarding authority by mail or email and keep them on file for three years. Each weekly payroll report must contain: the employee's name, address, occupational classification, hours worked, and wages paid. Do not submit weekly payroll reports to DLS. A sample of a payroll reporting form may be obtained at <http://www.mass.gov/dols/pw>.
- Contractors with questions about the wage rates or classifications included on the wage schedule have an affirmative obligation to inquire with DLS at (617) 626-6953.
- Employees not receiving the prevailing wage rate set forth on the wage schedule may report the violation to the Fair Labor Division of the office of the Attorney General at (617) 727-3465.
- Failure of a contractor or subcontractor to pay the prevailing wage rates listed on the wage schedule to all employees who perform construction work on the project is a violation of the law and subjects the contractor or subcontractor to civil and

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
<b>Rental of Equipment - East</b>						
(2 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2016	\$32.15	\$10.91	\$0.00	\$0.00	\$43.06
(3 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2016	\$32.22	\$10.91	\$0.00	\$0.00	\$43.13
(4 & 5 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2016	\$32.34	\$10.91	\$0.00	\$0.00	\$43.25
ADS/SUBMERSIBLE PILOT <i>PILE DRIVER LOCAL 56 (ZONE 1)</i>	08/01/2015	\$88.29	\$9.80	\$0.00	\$0.00	\$98.09
For apprentice rates see "Apprentice- PILE DRIVER"						
ASPHALT/CONCRETE/CRUSHER PLANT-ON SITE <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2016	\$45.38	\$10.00	\$0.00	\$0.00	\$55.38
	06/01/2017	\$46.38	\$10.00	\$0.00	\$0.00	\$56.38
	12/01/2017	\$47.38	\$10.00	\$0.00	\$0.00	\$57.38
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
BACKHOE/FRONT-END LOADER <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2016	\$45.38	\$10.00	\$0.00	\$0.00	\$55.38
	06/01/2017	\$46.38	\$10.00	\$0.00	\$0.00	\$56.38
	12/01/2017	\$47.38	\$10.00	\$0.00	\$0.00	\$57.38
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
BULLDOZER/GRADER/SCRAPER <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2016	\$44.94	\$10.00	\$0.00	\$0.00	\$54.94
	06/01/2017	\$45.93	\$10.00	\$0.00	\$0.00	\$55.93
	12/01/2017	\$46.92	\$10.00	\$0.00	\$0.00	\$56.92
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
CLAM SHELLS/SLURRY BUCKETS/HEADING MACHINES <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2016	\$46.38	\$10.00	\$0.00	\$0.00	\$56.38
	06/01/2017	\$47.38	\$10.00	\$0.00	\$0.00	\$57.38
	12/01/2017	\$48.38	\$10.00	\$0.00	\$0.00	\$58.38
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
COMPRESSOR OPERATOR <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2016	\$31.17	\$10.00	\$0.00	\$0.00	\$41.17
	06/01/2017	\$31.86	\$10.00	\$0.00	\$0.00	\$41.86
	12/01/2017	\$32.55	\$10.00	\$0.00	\$0.00	\$42.55
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
DIVER <i>PILE DRIVER LOCAL 56 (ZONE 1)</i>	08/01/2015	\$58.86	\$9.80	\$0.00	\$0.00	\$68.66
For apprentice rates see "Apprentice- PILE DRIVER"						
DIVER TENDER <i>PILE DRIVER LOCAL 56 (ZONE 1)</i>	08/01/2015	\$42.04	\$9.80	\$0.00	\$0.00	\$51.84
For apprentice rates see "Apprentice- PILE DRIVER"						
DIVER TENDER (EFFLUENT) <i>PILE DRIVER LOCAL 56 (ZONE 1)</i>	08/01/2015	\$63.06	\$9.80	\$0.00	\$0.00	\$72.86
For apprentice rates see "Apprentice- PILE DRIVER"						
DIVER/SLURRY (EFFLUENT) <i>PILE DRIVER LOCAL 56 (ZONE 1)</i>	08/01/2015	\$88.23	\$9.80	\$0.00	\$0.00	\$98.03
For apprentice rates see "Apprentice- PILE DRIVER"						
FLAGGER & SIGNALER <i>LABORERS - ZONE 2</i>	12/01/2016	\$20.50	\$7.45	\$0.00	\$0.00	\$27.95
For apprentice rates see "Apprentice- LABORER"						
FORK LIFT/CHERRY PICKER <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2016	\$45.38	\$10.00	\$0.00	\$0.00	\$55.38
	06/01/2017	\$46.38	\$10.00	\$0.00	\$0.00	\$56.38
	12/01/2017	\$47.38	\$10.00	\$0.00	\$0.00	\$57.38
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
GENERATOR/LIGHTING PLANT/HEATERS <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2016	\$31.17	\$10.00	\$0.00	\$0.00	\$41.17
	06/01/2017	\$31.86	\$10.00	\$0.00	\$0.00	\$41.86
	12/01/2017	\$32.55	\$10.00	\$0.00	\$0.00	\$42.55
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
HOISTING ENGINEER/CRANES/GRADALLS <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2016	\$45.38	\$10.00	\$0.00	\$0.00	\$55.38
	06/01/2017	\$46.38	\$10.00	\$0.00	\$0.00	\$56.38
	12/01/2017	\$47.38	\$10.00	\$0.00	\$0.00	\$57.38

**Apprentice - OPERATING ENGINEERS - Local 4**

**Effective Date - 12/01/2016**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	55	\$24.96	\$10.00	\$0.00	\$0.00	\$34.96
2	60	\$27.23	\$10.00	\$0.00	\$0.00	\$37.23
3	65	\$29.50	\$10.00	\$0.00	\$0.00	\$39.50
4	70	\$31.77	\$10.00	\$0.00	\$0.00	\$41.77
5	75	\$34.04	\$10.00	\$0.00	\$0.00	\$44.04
6	80	\$36.30	\$10.00	\$0.00	\$0.00	\$46.30
7	85	\$38.57	\$10.00	\$0.00	\$0.00	\$48.57
8	90	\$40.84	\$10.00	\$0.00	\$0.00	\$50.84

**Effective Date - 06/01/2017**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	55	\$25.51	\$10.00	\$0.00	\$0.00	\$35.51
2	60	\$27.83	\$10.00	\$0.00	\$0.00	\$37.83
3	65	\$30.15	\$10.00	\$0.00	\$0.00	\$40.15
4	70	\$32.47	\$10.00	\$0.00	\$0.00	\$42.47
5	75	\$34.79	\$10.00	\$0.00	\$0.00	\$44.79
6	80	\$37.10	\$10.00	\$0.00	\$0.00	\$47.10
7	85	\$39.42	\$10.00	\$0.00	\$0.00	\$49.42
8	90	\$41.74	\$10.00	\$0.00	\$0.00	\$51.74

**Notes:**

**Apprentice to Journeyworker Ratio:1:6**

LABORER <i>LABORERS - ZONE 2</i>	12/01/2016	\$32.40	\$7.45	\$0.00	\$0.00	\$39.85
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Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
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**Apprentice - LABORER - Zone 2**

**Effective Date - 12/01/2016**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$19.44	\$7.45	\$0.00	\$0.00	\$26.89
2	70	\$22.68	\$7.45	\$0.00	\$0.00	\$30.13
3	80	\$25.92	\$7.45	\$0.00	\$0.00	\$33.37
4	90	\$29.16	\$7.45	\$0.00	\$0.00	\$36.61

**Notes:**

**Apprentice to Journeyworker Ratio:1:5**

OILER (OTHER THAN TRUCK CRANES, GRADALLS) <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2016	\$22.96	\$10.00	\$0.00	\$0.00	\$32.96
	06/01/2017	\$23.47	\$10.00	\$0.00	\$0.00	\$33.47
	12/01/2017	\$23.99	\$10.00	\$0.00	\$0.00	\$33.99

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

OILER (TRUCK CRANES, GRADALLS) <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2016	\$26.94	\$10.00	\$0.00	\$0.00	\$36.94
	06/01/2017	\$27.54	\$10.00	\$0.00	\$0.00	\$37.54
	12/01/2017	\$28.15	\$10.00	\$0.00	\$0.00	\$38.15

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

OTHER POWER DRIVEN EQUIPMENT - CLASS II <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2016	\$44.94	\$10.00	\$0.00	\$0.00	\$54.94
	06/01/2017	\$45.93	\$10.00	\$0.00	\$0.00	\$55.93
	12/01/2017	\$46.92	\$10.00	\$0.00	\$0.00	\$56.92

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

PANEL & PICKUP TRUCKS DRIVER <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2012	\$30.28	\$9.07	\$0.00	\$0.00	\$39.35
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POWER SHOVEL/DERRICK/TRENCHING MACHINE <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2016	\$45.38	\$10.00	\$0.00	\$0.00	\$55.38
	06/01/2017	\$46.38	\$10.00	\$0.00	\$0.00	\$56.38
	12/01/2017	\$47.38	\$10.00	\$0.00	\$0.00	\$57.38

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

PUMP OPERATOR (CONCRETE) <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2016	\$45.38	\$10.00	\$0.00	\$0.00	\$55.38
	06/01/2017	\$46.38	\$10.00	\$0.00	\$0.00	\$56.38
	12/01/2017	\$47.38	\$10.00	\$0.00	\$0.00	\$57.38

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

PUMP OPERATOR (DEWATERING, OTHER) <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2016	\$31.17	\$10.00	\$0.00	\$0.00	\$41.17
	06/01/2017	\$31.86	\$10.00	\$0.00	\$0.00	\$41.86
	12/01/2017	\$32.55	\$10.00	\$0.00	\$0.00	\$42.55

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

ROLLER/SPREADER/MULCHING MACHINE <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2016	\$44.94	\$10.00	\$0.00	\$0.00	\$54.94
	06/01/2017	\$45.93	\$10.00	\$0.00	\$0.00	\$55.93
	12/01/2017	\$46.92	\$10.00	\$0.00	\$0.00	\$56.92

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

SPECIALIZED EARTH MOVING EQUIP < 35 TONS <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2016	\$32.44	\$10.91	\$0.00	\$0.00	\$43.35
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SPECIALIZED EARTH MOVING EQUIP > 35 TONS <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2016	\$32.73	\$10.91	\$0.00	\$0.00	\$43.64
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Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
TRACTORS/PORTABLE STEAM GENERATORS <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2016	\$44.94	\$10.00	\$0.00	\$0.00	\$54.94
	06/01/2017	\$45.93	\$10.00	\$0.00	\$0.00	\$55.93
	12/01/2017	\$46.92	\$10.00	\$0.00	\$0.00	\$56.92
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
TRAILERS FOR EARTH MOVING EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2016	\$33.02	\$10.91	\$0.00	\$0.00	\$43.93
TREE TRIMMER <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	01/31/2016	\$18.51	\$3.55	\$0.00	\$0.00	\$22.06
This classification applies only to tree work done: (a) for a utility company, R.E.A. cooperative, or railroad or coal mining company, and (b) for the purpose of operating, maintaining, or repairing the utility company's equipment, and (c) by a person who is using hand or mechanical cutting methods and is not on the ground. This classification does not apply to wholesale tree removal.						
TREE TRIMMER GROUNDMAN <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	01/31/2016	\$16.32	\$3.55	\$0.00	\$0.00	\$19.87
This classification applies only to tree work done: (a) for a utility company, R.E.A. cooperative, or railroad or coal mining company, and (b) for the purpose of operating, maintaining, or repairing the utility company's equipment, and (c) by a person who is using hand or mechanical cutting methods and is on the ground. This classification does not apply to wholesale tree removal.						
VAC-HAUL/CATCH BASIN CLEANING <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2016	\$32.44	\$10.91	\$0.00	\$0.00	\$43.35

**Additional Apprentice 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. Apprentice 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.)

Ratios are expressed in allowable number of apprentices to journeymen or fraction thereof, unless otherwise specified.

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

\*\*\* APP to JM; 1:1, 2:2, 2:3, 3:4, 4:4, 4:5, 4:6, 5:7, 6:7, 6:8, 6:9, 7:10, 8:10, 8:11, 8:12, 9:13, 10:13, 10:14, etc.

\*\*\*\* APP to JM; 1:1, 1:2, 2:3, 2:4, 3:5, 4:6, 4:7, 5:8, 6:9, 6:10, 7:11, 8:12, 8:13, 9:14, 10:15, 10:16, etc.

**WEEKLY PAYROLL RECORDS REPORT  
& STATEMENT OF COMPLIANCE**

In accordance with Massachusetts General Law c. 149, §27B, a true and accurate record must be kept of all persons employed on the public works project for which the enclosed rates have been provided. A Payroll Form is available from the Department of Labor Standards (DLS) at [www.mass.gov/dols/pw](http://www.mass.gov/dols/pw) and includes all the information required to be kept by law. Every contractor or subcontractor is required to keep these records and preserve them for a period of three years from the date of completion of the contract.

On a weekly basis, every contractor and subcontractor is required to submit a certified copy of their weekly payroll records to the awarding authority; this includes the payroll forms and the Statement of Compliance form. The certified payroll records must be submitted either by regular mail or by e-mail to the awarding authority. Once collected, the awarding authority is required to preserve those records for three years from the date of completion of the project.

Each such contractor and subcontractor shall furnish weekly **and** within 15 days after completion of its portion of the work, to the awarding authority directly by first-class mail or e-mail, a statement, executed by the contractor, subcontractor or by any authorized officer thereof who supervised the payment of wages, this form, accompanied by their payroll:

**STATEMENT OF COMPLIANCE**

\_\_\_\_\_, 20\_\_\_\_

I, \_\_\_\_\_,  
(Name of signatory party) (Title)

do hereby state:

That I pay or supervise the payment of the persons employed by

\_\_\_\_\_ on the \_\_\_\_\_  
(Contractor, subcontractor or public body) (Building or project)

and that all mechanics and apprentices, teamsters, chauffeurs and laborers employed on said project have been paid in accordance with wages determined under the provisions of sections twenty-six and twenty-seven of chapter one hundred and forty nine of the General Laws.

Signature \_\_\_\_\_  
Title \_\_\_\_\_

**MASSACHUSETTS WEEKLY CERTIFIED PAYROLL REPORT FORM**



Company's Name:		Address:		Phone No.:		Payroll No.:												
Employer's Signature:		Title:		Contract No.:	Tax Payer ID Number	Work Week Ending:												
Awarding Authority's Name:		Public Works Project Name:		Public Works Project Location:		Min. Wage Rate Sheet Number												
General / Prime Contractor's Name:		Subcontractor's Name:		"Employer" Hourly Fringe Benefit Contributions														
						(B+C+D+E)	(A x F)											
Employee Name & Complete Address	Work Classification:	Employee is OSHA 10 certified (?)	Appr. Rate (%)	Hours Worked							Project Hours (A) All Other Hours	Hourly Base Wage (B)	Health & Welfare Insurance (C)	ERISA Pension Plan (D)	Supp. Unemp. (E)	Total Hourly Prev. Wage (F)	Project Gross Wages Total Gross Wages	Check No. (H)
				Su.	Mo.	Tu.	We.	Th.	Fr.	Sa.								

Are all apprentice employees identified above currently registered with the MA DLS's Division of Apprentices Standards? YES  NO   
 For all apprentices performing work during the reporting period, attach a copy of the apprentice identification card issued by the Massachusetts Department of Labor Standards / Division of Apprentices Standards. No apprentices are identified above

**NOTE:** Pursuant to MGL c. 149, s. 27B, every contractor and subcontractor is required to submit a true and accurate copy of their certified weekly payroll records to the awarding authority by first-class mail or e-mail. In addition, each weekly payroll must be accompanied by a statement of compliance signed by the employer. Failure to comply may result in the commencement of a criminal action or the issuance of a civil citation.