

April 29, 2025

Tim Pearson  
Conservation Agent  
Littleton Conservation Commission  
37 Shattuck Street  
P.O. Box 1305  
Littleton, MA 01460

RE: Request for Amendment to Order of Conditions for DEP#204-0991,  
The Reconstruction of Foster Street  
Littleton, MA.

Dear Commission Members:

On behalf of the Town of Littleton Department of Public Works director Stephen Jahnle, we are requesting an Amended Order of Conditions for the Reconstruction of Foster Street Project (MassDEP File No. 204-0991). The Order of Conditions (OOC) was issued on December 12, 2023.

The request for an amendment pertains to two project changes: 1). The proposed addition of a new work item for the treatment of invasive plant species through the selective application of herbicidal treatment. 2). A reduction in the proposed number of 4.0' x 6.5' leaching catch basin structures from 5 to 1 due to the discovery of high seasonal groundwater throughout the project limits. The following background explains the two requests in more detail.

## **Background**

### Invasive Plant Management and Treatment

At the time of issuance of the OOC, the project included the planting of 88 new trees and 19 new shrubs. The only project work related to invasive plants was an inventory report of invasive plants within the project limits. The report proposed to document existing conditions and then final conditions of invasive plant species at the completion of construction. The intent was to use the inventory report to provide a basis for determining if any new invasive species had been transported into the project limits during construction.

After the start of construction, MassDOT's landscaping division walked the project limits with the contractor and advised that treatment of invasive species was desirable to MassDOT for the purpose of optimizing conditions for new plantings and for overall aesthetics. This request is for an amendment to the OOC which would add a new standard MassDOT work item called 'Herbicide Treatment of Invasive Plants' within the project work limits. MassDOT's standard specification for the work item is attached. Additionally, the contractor has sourced a detailed proposal from a subcontracting environmental and landscaping specialist, SWCA, describing a treatment plan for the project, also attached. The proposal describes the following aspects of the treatment plan:

- Treatment of Invasive species by mechanical extraction, clearing and excavating. This work is permissible under the original OOC within the project limits. No work is proposed inside of wetland boundaries.
- Equipment cleaning protocols to prevent the spread of invasives.
- Soil movement, burial, and stockpiling methods to prevent the spread of invasives.



- Selective herbicide application in Summer 2025 within the project limits including the type of herbicide by plant species, the application method, and the month of application. No work is proposed inside of wetland boundaries.
- Follow-up management in Summer 2026.
- Reporting and notification protocols to the Conservation Commission and MassDOT.

#### Leaching Catch Basins

The project originally included 5 underground leaching cement concrete catch basin structures, 4.0' x 6.5' in dimensional size, located along the back of curb on Foster Street. The 5 leaching catch basins were each connected to a proposed new traditional deep sump catch basin. Three of the leaching catch basins were located inside of the 100' buffer area to BVW.

As a redevelopment and limited project, it was demonstrated during review of the original NOI that the project met the Massachusetts Stormwater Standards to the maximum extent practicable. It was noted by the proponent in response to the Commission's comments on the NOI dated 12/01/2023 that the leaching catch basins were not capable of managing high flow events and had low value mitigating stormwater flows during design storms. The purpose of the leaching catch basins was to provide some additional stormwater recharge in the project limits to the maximum extent practicable.

High seasonal groundwater elevation must be two feet beneath the leaching catch basins, or 8.5' below the ground surface for successful installation. Since the start of construction, groundwater test pits performed have shown evidence of high seasonal groundwater elevations that are too high for installation of the proposed leaching catch basins at each the original proposed 5 locations. One new proposed location on Foster Street, approximately 200ft west of Balsam Lane was found to have deep enough groundwater elevation to make the installation of one leaching catch basin feasible.

#### Abutter Notification

An abutter's list was sourced from the Town of Littleton assessor's office including abutters that are 1,000ft from the linear project limits in accordance with M.G.L. Chapter 131: Section 40. Notification was sent the day of this request.

Sincerely,



Aaron Keegan, PE  
Project Engineer  
Fuss & O'Neill, Inc.  
(413) 333-5461  
[aaron.keegan@fando.com](mailto:aaron.keegan@fando.com)

CC: Stephen Jahnle, DPW Director, Town of Littleton; Chris Deloge, Resident Engineer, MassDOT



Enclosed:

- 1). MassDOT Standard Specification for Herbicidal Treatment of Invasive Species.
- 2). Invasive Plant Management Proposal by SWCA Including Project Map of Invasive Species.
- 3). Revised Project Plans.
- 4). Abutter's Notification Letter and Abutter's List.



# MassDOT Standard Specification for Herbicidal Treatment of Invasive Species



**ITEM 102.3****HERBICIDE TREATMENT OF INVASIVE PLANTS****HOUR**

This work must be performed by persons who meet the qualifications below and are approved by the Landscape Design Section.

Work under this item consists of herbicide treatment of invasive plants currently existing within the project limits and as directed. An Invasive Plant Management Strategy (IPMS) shall be submitted to the Engineer for review and approval and the IPMS shall be implemented on-site. The IPMS shall be written and submitted per Item 102.33 Invasive Plant Management Strategy and shall be measured and paid for under that Item.

Work under this item shall be coordinated with work and schedule for Selective Clearing, Clearing and Grubbing, Mowing, Tree Removal, Planting, and Wetland Mitigation items.

Payment is per hour on-site and shall be compensation for a minimum crew of 2 licensed applicators, 2 back-pack sprayers and mist-blowers, a properly equipped spray truck with spray hoses, and a tank with sufficient capacity for a full day of work. If there is only one applicator, hourly payment shall be adjusted to 50 percent of the unit price.

Date and time stamped photos indicating start and stop time of work must be submitted if requested.

This item is not intended for manual removal of plants.

Management of plants determined to have been introduced to the site via imported loam, compost, mulch, plants, equipment, or other construction activities will be the Contractor's responsibility and at the Contractor's expense.

Herbicide shall be applied during daytime hours only.

Measures to prevent the introduction of invasive plant species to the site and to address introduction due to construction-related activities shall be covered under the Standard Specifications, Division I - Subsections 7.01(D) Plant Pest Control and 7.13 Protection and Restoration of Property as amended in these Special Provisions.

Plant species targeted for management under this item shall be as determined in the field per the site walk and as specified in the IPMS.

The definition of invasive plant species shall be as described by Massachusetts Invasive Plant Advisory Group (MIPAG): "non-native species that have spread into native or minimally managed plant systems in Massachusetts, causing economic or environmental harm by developing self-sustaining populations and becoming dominant and/or disruptive to those systems."

Control of invasive plants shall begin immediately with the initiation of construction activities and prior to any clearing or site disturbance. Treatment areas shall include stockpile locations and may, upon approval of the Engineer, extend outside the project limit. Treatment shall be done each consecutive year for the duration of the contract unless specified otherwise in the IPMS or unless directed otherwise by the MassDOT invasive species contact. Work shall be done during the growing season from May – October unless otherwise specified in the IPMS.



Areas identified for vegetation control measures shall be as shown on the plans and as determined in the field by the Engineer and a MassDOT Landscape Architect. Contact at MassDOT Landscape Design Section may be contacted at: [stephanie.smoots@dot.state.ma.us](mailto:stephanie.smoots@dot.state.ma.us).

## **QUALIFICATIONS**

The applicators shall submit and meet the qualifications outlined below. A list of contractors specializing in invasive management and approved by MassDOT Landscape Design Section is available on the following website: <https://www.mass.gov/lists/landscape-design-and-roadside-maintenance> under Invasive Plant Management.

### **Requirements**

1. Company must provide proof of qualifications by providing the following:
  - a. Narrative describing company, its expertise and experience with invasive plant control.
  - b. Demonstrate experience with herbicide treatment as part of restorations and in sensitive areas.
  - c. Describe company's technical qualifications and past performance.
2. Company must meet licensing requirements:
  - a. All crew applicators must have a Massachusetts Commercial Applicator License (CORE).
  - b. At least one or more applicator must have a ROW certification, if required for work.
  - c. Company must provide name(s) of applicator(s) and Applicator License/Certification number for all contractor crew leaders working on the project.
  - d. Company must provide documentation of any warnings, penalties or fines received in the last three (3) years.
3. Company must provide proof of experience with invasive plant control and include following:
  - a. At least five (5) references from prior invasive plant control work completed in last five (5) years. Provide contact information including address, phone number and email.
  - b. Provide a summary of each of these projects including nature of the problem, specific invasive vegetation treated, dates and period of treatment, methodologies used, and summary of success or not in terms of meeting performance objectives. Include summary of equipment used.
  - c. Photo documentation of these projects.
  - d. GPS coordinates of project locations, if available.
4. Crew leader must have expertise with invasive plant control and provide the following:
  - a. Have held Core license for at least five (5) years.
  - b. Resume listing five (5) or more years of experience applying pesticides with the company or with another company specializing in vegetation management.

## **SUBMITTALS**

No work shall begin without approval of the submittals.

Submittals include the following items:

Invasive Plant Management Strategy (IPMS)



At least thirty (30) days prior to proposed treatment the IPMS shall be submitted for approval by the Engineer and MassDOT Landscape Architect. All chemicals, methods and work done under this item shall be consistent with the IPMS. The IPMS shall be as described under Item 102.33.

#### Herbicide Use Report

Within two (2) weeks after each application, the Contractor shall provide to the Engineer and the MassDOT Landscape Architect a completed and signed MassDOT Herbicide Use Report.

#### Photo Documentation

Digital photos with date and time of herbicide application work, showing start time and completion time, are required and must be submitted for measurement of payment upon request.

### **MATERIALS**

All proposed herbicides shall be as approved in the IPMS. Herbicides shall be labeled for the method of treatment and shall meet all federal, state and local regulation requirements. Application rates will depend on herbicide proposed and shall be per the manufacturer's label for specific application.

### **METHODS**

All methods used shall be as approved in the IPMS which shall be determined during the Initial Site Walk as described under Item 102.33 Invasive Plant Management Strategy.

The Contractor shall be responsible for marking delineated areas and plants to be preserved, removed, or otherwise treated. Fencing or other materials needed for marking and delineating protected areas shall be incidental to this item.

The Contractor shall notify the Engineer a minimum of 3 days prior to date of expected herbicide application. Applicators shall notify the Engineer upon arriving on-site and upon leaving the site.

#### Herbicide Applications

All herbicide application shall conform to Massachusetts Pesticide Laws and Regulations per the Massachusetts Department of Agricultural Resources (MDAR) Pesticide Bureau.

Mixing, applying and/or disposing of herbicides shall always be in accordance with instructions on their labels and all applicable federal, state, and local regulations. Mixing shall not occur within sensitive areas, wetlands, or buffer zones.

Contractor shall not spray 2 hours prior to precipitation, during rain, or during windy conditions. The Contractor shall be responsible for monitoring weather conditions and adjusting the work schedule as appropriate for the herbicide and application method to be used.

Targeted vegetation shall be identified and marked prior to treatment. Plants treated by foliar spray, injection or glove application or other methods that leave standing vegetation, as opposed to cut-stump application, shall remain clearly marked for identification through the contract period.



Desirable vegetation shall be protected from both spray and other physical damage.

Contractor is responsible for any damage to vegetation not designated for removal or treatment. Vegetation damaged shall be restored. Cost of replacement plants and/or restoration shall be borne by the Contractor.

Contractor shall ensure that the public does not enter a work area while herbicide application or spraying is underway.

#### Disposal Of Invasive Plant Material

All material to be cleared shall become the property of the Contractor. The satisfactory disposal of all cleared plant material (seeds, roots, woody vegetation, associated soils, etc.) shall be the Contractor's responsibility.

The Contractor shall take measures to prevent viable plant material from leading to further infestations (seeds, roots, woody material, etc.) while stockpiled, in transit, or at final disposal locations. All precautions shall be taken to avoid contamination of natural landscapes with invasive plants or invasive plant material.

Chipping, shredding, or on-site burning of plant material must be approved by the Engineer and included in the IPMS.

For plant material taken to an incinerating facility per the IPMS, a receipt from that facility shall be submitted to the Engineer as proof of disposal.

Where feasible, it is preferable to dispose of plants on-site or to bury them on-site with on-going monitoring for re-sprouting. Disposal locations and methods must be approved and included in the IPMS. Site work such as grading and seeding to stabilize and restore disposal area shall be incidental to this item.

The Contractor shall be responsible for treating or otherwise managing areas of re-growth due to improper disposal. Treatment shall be at the Contractor's expense.

#### Follow-Up Treatment

Plants and areas shall be re-treated as necessary and as appropriate to the time of year. Treatment shall be for the duration of the contract and per the IPMS.

#### **MEASURE OF SUCCESS**

The expectation is a minimum of 85-95 percent control achieved after the first treatment, depending on plants targeted and extent of population, and based on the expectations laid out in the IPMS. The expectation for the contract duration is 95-100% eradication by the end of the treatment period, unless otherwise specified in the IPMS.

#### **METHOD OF MEASUREMENT**



Item 102.3 will be measured for payment by the Hour of verified crew time spent on the project doing herbicide application as and where specified herein and in the IPMS. A crew shall be defined as a minimum of two licensed applicators each equipped with (at minimum) back-pack sprayer and mist blower. The crew shall also have a properly equipped spray truck with hoses and a tank with sufficient capacity for a full day of work.

### **BASIS OF PAYMENT**

Item 102.3 will be paid at the contract unit price per Hour, which price shall include all labor, materials, equipment, tools, and all incidentals required to complete the work.

Payment will be based upon verified time spent on the project doing herbicide application as and where specified in the IPMS and upon receipt and approval of submittals. Payment will not include travel time to and from the Contractor's place of business and nor time for investigative field trips.

If there is only one applicator, hourly payment shall be adjusted to 50 percent of the unit price.

The Invasive Plant Management Strategy will be paid for under Item 102.33.



# Invasive Plant Management Proposal by SWCA Including Project Map of Existing Invasive Species





# SUBMITTAL REGISTRATION FORM

ONYX JOB #EX-24-0010

## MASSDOT 125644 - FOSTER STREET RECONSTRUCTION PROJECT LITTLETON, MA

**Submittal Description:** INVASIVE PLANT MANAGEMENT STRATEGY - FULL PLAN

**Submittal No.:** 102.33-003

**Spec Section:** N/A

**Revision No.:** 0

**Sub Section:**

### SUBMITTAL DISTRIBUTION TYPE:

- ☐ Shop Drawing
- ☐ Working Drawings
- ☐ Schedule Submittal
- ☐ Miscellaneous Submittal

### REVIEWER STAMP & COMMENTS

### SUBMITTAL NOTES:

*The above referenced submittal has been reviewed by the undersigned and I/we certify that the material and/or equipment meets or exceeds the project specification requirements with:*

N/A

No deviations


Deviations as noted below:

Print Name: \_\_\_\_\_

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

Date: \_\_\_\_\_



The logo for SWCA is positioned vertically on the left side of the page. It consists of the letters 'S', 'W', 'C', and 'A' in a large, stylized, light blue font. The letters are stacked vertically, with the 'S' at the bottom and the 'A' at the top. The 'W' and 'C' are in the middle, and they are all connected in a continuous, flowing manner.

# Invasive Plant Management Strategy for Reconstruction of Foster Street in Littleton, Massachusetts

MassDOT Project No. 609054

MassDOT Contract No. 125644

PREPARED FOR

**Massachusetts Department of Transportation**

ON BEHALF OF

**Onyx Corporation**

PREPARED BY

**SWCA Environmental Consultants**



# **INVASIVE PLANT MANAGEMENT STRATEGY FOR RECONSTRUCTION OF FOSTER STREET IN LITTLETON, MASSACHUSETTS**

Prepared for

**Massachusetts Department of Transportation**

10 Park Plaza, Suite 4160  
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On Behalf of

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SWCA Project No. 0089854-000-AMH



## **CONTENTS**

<b>1</b>	<b>Introduction .....</b>	<b>1</b>
1.1	Permit Compliance .....	1
<b>2</b>	<b>Documentation of Invasive Plants on Site .....</b>	<b>1</b>
<b>3</b>	<b>Methods of Invasive Plant Management .....</b>	<b>2</b>
3.1	Initial Management.....	3
3.1.1	Mechanical Management: Clearing and Excavating .....	3
3.1.2	Chemical Management: Herbicide Application.....	4
3.2	Follow-Up Management.....	5
<b>4</b>	<b>Summary .....</b>	<b>5</b>

## **Appendices**

Appendix A. Invasive Plant Locations Map  
Appendix B. Photographs  
Appendix C. MassDOT Herbicide Use Report Form

## **Tables**

Table 1. Invasive Plant Species Management Details .....	2
Table 2. Invasive Plant Management Timeline.....	5



# 1 INTRODUCTION

This Invasive Plant Management Strategy (IPMS) has been developed to provide the site contractor, Onyx Corporation, with specifications regarding the removal, handling, and management of invasive plants existing within the construction limits of the Reconstruction of Foster Street project (project site) in Littleton, Massachusetts. Invasive plant management is conducted on construction projects such as this one to improve the habitat value of the project site, protect the proposed landscape and/or restoration plantings, and prevent the future spread of invasive species from documented locations into uninfested project work areas. In addition to measurements of spread prevention, this plan specifies an invasive plant management goal to reduce or eliminate the cover of invasive plants found on the project site.

The measure of success for invasive plant management on this project is 85% reduction in invasive plants from preconstruction to the end of the project. This invasive reduction goal is based solely on the invasive plant populations currently existing within the bounds of the project site, as documented in this plan. Invasive plant populations frequently extend outside the project site and make total eradication infeasible.

Project construction will commence upon approval of this plan and will extend through Fall 2026. Invasive plant management will be conducted annually until project completion.

## 1.1 Permit Compliance

A Stormwater Pollution Prevention Plan (SWPPP) and Order of Conditions (OOC) (MassDEP File No. #204-0991) has been issued for construction work within resource areas and within the 50-foot No Disturbance Area of the Littleton Wetlands Protection bylaw. Currently, the OOC requires that herbicides proposed to be used need to be disclosed to the Conservation Commission and properly specified in an Amended OOC.

Onyx Corporation will need to request an amendment to the OOC in Fall/Winter of 2024 to allow for herbicide use during the summer of 2025.

# 2 DOCUMENTATION OF INVASIVE PLANTS ON SITE

SWCA conducted a survey of invasive plants within the construction limits on August 30, 2024, accompanied by representatives from MassDOT and Onyx Corporation, to identify the preconstruction locations of invasive plants across the project site.

The locations of invasive plants observed during the August 30, 2024, site visit is annotated in the Invasive Plant Locations Plan (Appendix A). SWCA also took photographs of key invasive plant populations during the August 30, 2024 visit, which are included in the attached photograph pages (Appendix B).

The invasive plant species with the greatest coverage on the project site are Asiatic bittersweet (*Celastrus orbiculatus*) and Japanese knotweed (*Fallopia japonica*). While the invasives documented in Appendix A represent preconstruction conditions on the day of the site visit, there are many invasive populations existing directly outside of the construction limits. Therefore, it is possible that these species could spread into the project area once soil has been disturbed. All invasive plants observed on-site will be targeted during each management visit and notes of new invasive plant locations will be relayed to the site contractor.



### 3 METHODS OF INVASIVE PLANT MANAGEMENT

A combination of chemical and mechanical management will take place for all invasive plants located within the project site. Mechanical clearing will need to be the first method of invasive management in order to keep construction activities on schedule. While several invasive plants will be managed, Japanese knotweed is of highest concern during construction activities due to its ability to spread through rhizome fragmentation. Herbicide application will be a necessary method of invasive plant management throughout the construction timeframe (through Fall 2026). Particular care needs to be given when clearing vegetation and/or mobilizing through areas where Japanese knotweed exists. See Section 3.1.1 for more details on how to carefully handle and work through areas of Japanese knotweed.

Mechanical methods can effectively manage many of the invasive plants present. Such methods include clearing, grubbing, and other excavation activities which will all occur during this project. SWCA will work with the site contractor to most effectively utilize both mechanical and chemical means of invasive plant management to meet the goals of this project as well as the construction schedule.

All herbicide applications will be conducted as detailed in Table 1 and will be applied using low-volume backpack sprayers. Herbicide will be mixed with non-ionic surfactant and a marking dye. This will allow applicators to conduct selective herbicide application and remain aware of all plants treated, which eliminates unnecessary overspray.

**Table 1. Invasive Plant Species Management Details**

Common Name	Scientific Name	Treatment Protocol	Management Timing
Japanese knotweed	<i>Fallopia japonica</i>	Foliar treatment; glyphosate	Late August to mid-October
Asiatic bittersweet	<i>Celastrus orbiculatus</i>	Foliar treatment (small stems); triclopyr Cut stem (large stems); triclopyr or glyphosate	June to October
Multiflora rose	<i>Rosa multiflora</i>	Foliar treatment (small stems); triclopyr or glyphosate Cut stem (large stems); triclopyr or glyphosate	June to October
Garlic mustard	<i>Alliaria petiolata</i>	Mechanical removal (small populations); hand pulling Foliar treatment (large populations); glyphosate	April to June
Porcelain berry	<i>Ampelopsis brevipedunculata</i>	Foliar treatment; glyphosate or triclopyr	June to October
Burning bush	<i>Euonymus alatus</i>	Foliar treatment (small stems); triclopyr or glyphosate Cut stem (large stems); triclopyr or glyphosate	June to October
Bush honeysuckle	<i>Lonicera</i> sp.	Foliar treatment (small stems); triclopyr or glyphosate Cut stem (large stems); triclopyr or glyphosate	June to October
Common buckthorn	<i>Rhamnus cathartica</i>	Foliar treatment (small stems); triclopyr or glyphosate Cut stem (large stems); triclopyr or glyphosate	June to October
Glossy buckthorn	<i>Frangula alnus</i>	Foliar treatment (small stems); triclopyr or glyphosate Cut stem (large stems); triclopyr or glyphosate	June to October
Autumn olive	<i>Elaeagnus umbellata</i>	Foliar treatment (small stems); triclopyr or glyphosate Cut stem (large stems); triclopyr or glyphosate	June to October
Purple loosestrife	<i>Lythrum salicaria</i>	Mechanical removal (small populations); hand pulling Foliar treatment (large populations); glyphosate	June to August



Common Name	Scientific Name	Treatment Protocol	Management Timing
Norway maple	<i>Acer platanoides</i>	Foliar treatment (small stems); glyphosate or triclopyr Hack and squirt (large stems and trees); glyphosate or triclopyr	June to October
All other invasive plants*		Young woody and herbaceous: foliar; glyphosate Mature shrubs: cut-stem; glyphosate. Mature trees: hack and squirt or cut-stem; glyphosate. Herbaceous invasives: foliar; glyphosate	April to October

Note: These herbicides are recommended for use. Either equivalent herbicides or similar herbicides may be used upon approval.

Note: "Mature" is defined as stems 1 or more inches in diameter; "Young" is defined as stems less than 1 inch in diameter.

\* Any invasive plants (as defined by MIPAG and DEP's Inland Wetland Replication Guidelines), regardless of their documentation in this IPMS, will be managed if observed within the management limits.

## 3.1 Initial Management

### 3.1.1 Mechanical Management: Clearing and Excavating

Invasive plant species must be cleared to avoid delaying construction. Much of the invasive vegetation will be initially managed through clearing. Clearing will be performed with a combination of excavators and land clearing equipment. Any equipment that is used to clear vegetation or excavate soil in an area that contains invasive plants will be cleaned prior to moving into uninfested areas of the project site or beyond. Equipment cleaning will be performed outside of wetland resource areas and their buffers and will be conducted prior to moving into uninfested areas.

When the Japanese knotweed is cleared, it must be cut above ground level without dislodging or affecting the roots of the plant. All cutting implements must be cleaned after cutting and prior to use in areas not containing Japanese knotweed. Failure to do this can result in spreading the Japanese knotweed population. Any Japanese knotweed cutting planned by Onyx Corporation must be communicated with SWCA to prevent an overlap with any planned foliar treatments.

If Japanese knotweed can be excavated, then all excavated material must be buried or stockpiled according to Section 3.1.1.2. Burial is preferred over stockpiling as it has the lowest risk of spreading Japanese knotweed; however, it is not feasible on all construction sites. Section 3.1.1.1 includes best practices for equipment cleaning. Appendix A includes the planned locations for temporary stockpile areas.

If invasive plant material cannot be buried or stockpiled on-site, then it can be sent to a facility and disposed of off-site. The contractor must make the facility aware that the disposal contains invasive plant species.

#### 3.1.1.1 EQUIPMENT CLEANING

All equipment will be cleaned using brushes, water, or compressed air prior to leaving areas with existing populations of invasive plant species. Using a combination of brushes and other hand tools to loosen compacted soil is preferable to the other two options, as brushes and hand tools will minimize the dispersal of any propagules. Any equipment that is used for the movement or clearing of soil within invasive populations will be cleaned prior to leaving the invasive-infested area. Cleaning will be performed on the tracks and buckets of the machines that have potentially come in contact with invasive root/propagule material.



If hand tools are used in clearing, they should also be cleaned prior to use in non-infested work areas. Cleaning activities shall occur outside of areas with disturbed soils and away from any surface waters to avoid the spread of seed material downstream.

If perimeter erosion controls are not already in place around these invasive-infested areas, the site contractor shall install a single line of straw bales around the area in which invasive plant propagules are cleaned from equipment. This will be performed to reduce the potential spread of invasives from infested to uninfested areas, particularly when there is bare soil in either the uninfested or infested areas in question. Final project close-out operations will include disposal of these perimeter controls. As they may contain viable invasive propagules, the receiving facility will be informed of that possibility, and the perimeter controls will not be reused after disposal.

All equipment used for the transport of invasive plant and root material will be inspected and cleaned prior to use with non-invasive materials. The site contractor will assume any soil and plant material remaining on equipment is invasive prior to use in uninfested portions of the project site. No oversight will be needed to conduct this task, but the site contractor must ensure all equipment is clear of excess soil and plant material when moving from an area of invasive infestation to one not infested.

### **3.1.1.2 SOIL MOVEMENT, BURIAL, AND STOCKPILING**

If burying Japanese knotweed on-site is possible, the plant material may only be buried at least 6 feet deep in locations that already contain Japanese knotweed. When moving potentially viable invasive propagules (both within or outside of the project site), all material will be secured in an enclosed structure (such as a dump truck bed) to avoid spread in transport.

All invasive infested soil that need to be stockpiled will be in the location marked on the attached plan (see Appendix A). The stockpile area will be surrounded by perimeter sediment and erosion controls to eliminate the displacement of any material during rain events. Should the stockpile area remain small, silt fence and straw bales will suffice for perimeter controls. However, should the stockpile area exceed a height of 5 feet, lined jersey barriers wrapped in a semi-permeable fabric will be installed to accommodate the larger volume of sediment that could mobilize during a large storm event. Should a secondary stockpile location be required, the site contractor will report the new location to MassDOT.

The invasive stockpile area(s) will be specifically inspected and treated during each herbicide application event. All soils in areas that have been treated, and that are subsequently scheduled for excavation, shall be considered suitable for reuse contingent on the Engineer's determination that no evidence of invasive plant propagation has been documented for a 6-month period prior to excavation. SWCA can provide recommendations to the Engineer if needed. Stockpile areas shall be exposed and/or overturned multiple times before this determination is made.

### **3.1.2 Chemical Management: Herbicide Application**

Due to construction timing, herbicide application will not be conducted prior to the start of clearing and grubbing. Where construction activities occur prior to herbicide application in areas that contain Japanese knotweed, the site contractor will follow the cleaning protocols outlined in Section 3.1.1.1. The other invasive plants on the project site will initially be well-managed through mechanical means, and all invasive plants will be re-treated with herbicide as needed in future management events (see Section 3.2).



## 3.2 Follow-Up Management

Additional management efforts are required to limit the spread of Japanese knotweed and other invasive plants on the project site following clearing and grubbing activities. All invasive plants will be targeted during each management visit regardless of being mapped in the preconstruction visit. Any new invasive plant locations found will be relayed to the site contractor.

Follow-up management will be conducted at least once during each year via a combination of herbicide application and mechanical removal. The proposed management schedule is included in Table 2. Any cutting to take place will be conducted with hedge trimmers, chain saws, or small hand tools (pruners, loppers, etc.) and will be performed in concert with herbicide application. Herbicide applications will be performed as indicated in Table 1. These management methods and timings have been included based on the ideal window for each invasive plant occurring on the project site. This timing is related to the flowering period for most invasive plants. The ideal timing for management is at or just after peak flowering. Any follow-up management to occur within the same growing season will occur a minimum of 2 to 3 weeks following any previous treatment.

As stated in Table 1, herbicide application may be conducted via foliar or cut-stem application. Foliar herbicide application will be performed by low-volume backpack sprayer. Cut-stem application will be conducted using Buckthorn Blasters®, a handheld applicator with a sponge tip. Where cut-stem applications are performed, cut material will be left in place. As construction activities will remove all large material prior to herbicide application, all cut-stem applications will be performed to small woody material, if needed. The exact implementation method (herbicide application or mechanical management) will be determined by SWCA in the field based on site conditions. All dead material will be left on-site where it falls to decompose naturally (as it ultimately would if it were not cut).

All herbicides that will be used for treatments are approved for use in wetlands and can be used in sensitive areas. Herbicide Use Reports will be submitted within 2 weeks of each application. A copy of the Herbicide Use Report form is included in Appendix C.

**Table 2. Invasive Plant Management Timeline**

Season	Task	Location
Fall 2024	Clearing and grubbing	Entire project site
	Establish stockpile	STA 35 to STA 38+75
August/September 2025	Initial herbicide application	Within construction limits
August/September 2026	Follow-up herbicide application	Within construction limits

\* Fall is assumed to include September to October, spring is assumed to include the start of the growing season through mid-June, and summer is assumed to include mid-June through August. See Table 1 for species-specific management windows.

## 4 SUMMARY

SWCA will work closely with MassDOT and Onyx Corporation to manage invasive plants annually (or as needed) through the end of the construction period, which is planned to be Fall 2026. Initial methods of management include mechanical clearing, and follow-up methods include a combination of chemical and manual/mechanical management techniques. SWCA will conduct herbicide application to all invasive plants observed on-site during all follow-up management events, as detailed in Section 3 of this IPMS. SWCA will submit MassDOT Herbicide Use Reports within 2 weeks of any management event.



Full inspections will be conducted by SWCA during or immediately after the final management event of each year. Results of each inspection will determine the precise invasive plant management plan for the following year. However, the management methods outlined in this IPMS include the approved methods from which annual plans will be determined. A brief report will be submitted to Onyx Corporation and MassDOT upon request by the landscape architect, describing the state of invasive plant management and the precise plan for the upcoming management season. This report will include a marked-up figure (if requested) depicting the locations of invasive plant management and will detail the state of invasive plant presence in each treatment area. The goal for this invasive plant management plan is to reduce the cover of invasive plants within the construction limits of the project by 85% of their existing (preconstruction) footprint. General progress toward this goal will be reported in each annual summary report.



## **APPENDIX A**

### **Invasive Plant Locations Map**



## HIGHWAY GUARD DETAILS

NONE

## TRAFFIC SIGNAL CONDUIT

NONE

## WATER SUPPLY ALTERATIONS

SEE SHEET 57-64

## DRAINAGE DETAILS

SEE SHEET NOS. 65-67

## LEGEND:

PROPOSED PEDESTRIAN CURB  
RAMP DETAIL #

X#

PROPOSED DRIVEWAY  
TYPE #

DR#-#

## NOTES:

1. ALL EXISTING GRANITE CURB WITHIN PROJECT LIMITS SHALL BE REMOVED & DISCARDED UNLESS OTHERWISE NOTED ON THE PLAN.
2. FOR GUARDRAIL DETAILS REFER TO STANDARD DETAILS 400.1.2, 400.1.3, 400.1.4, 400.1.5, 400.1.6, AND 400.5.1
3. ALL PROPOSED GRANITE CURB SHALL BE TYPE VB.
4. PRIOR TO CONSTRUCTION ACTIVITIES, A SITE WALK SHALL BE CONDUCTED WITH CONTRACTOR, ENGINEER, AND LANDSCAPE ARCHITECT TO DETERMINE SELECTIVE CLEARING AND THINNING OF TREES.
5. ALL PROPOSED CLEARING AND GRUBBING IS SHOWN WITH THE PROPOSED SLOPE LINE UNLESS OTHERWISE SHOWN.
6. LOCATIONS WHERE CLASS A ROCK EXCAVATION IS ENCOUNTERED NEAR GAS LINES, CONTRACTOR MUST ALSO PROVIDE VIBRATION MONITORING. (ITEM 757.)

LITTLETON  
RECONSTRUCTION OF FOSTER STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	9	128
PROJECT FILE NO.		609054	

## CONSTRUCTION PLANS

High Density Japanese knotweed, not likely to be eradicated.

Invasive Management limits are outlined in red.

Low density bittersweet and multiflora rose

- \* Invasive population outside of temporary easement. Not to be treated
- \*\* Invasive population begins within easement but extends outside. Treatment will only occur within easement.

Percent Cover of Invasives  
Green: 0-5%  
Yellow: 6-25%  
Orange: 26-75%  
Red: 76-100%

JOHN K. GRADY & DAVID B. RICE, TRUSTEES OF  
CONCORD ASSOCIATES FOSTER STREET TRUST  
BK/PG 14680/362  
PLAN NO 1314 OF 1981  
PARCEL #R09 33 0  
300 FOSTER STREET

FOR PROFILE: SEE SHEET NO. 17

0 20 50 100  
SCALE: 1" = 20'



# HIGHWAY GUARD DETAILS

STEEL W-BEAM GUARDRAIL (TL-2) W/ WOOD POST & TANGENT END STA. 9+46 LT TO TANGENT END STA 10+84 LT

# TRAFFIC SIGNAL CONDUIT

NONE

# WATER SUPPLY ALTERATIONS

SEE SHEET 57-64

# DRAINAGE DETAILS

SEE SHEET NOS. 65-67

## LEGEND:

PROPOSED PEDESTRIAN CURB  
RAMP DETAIL #

X#

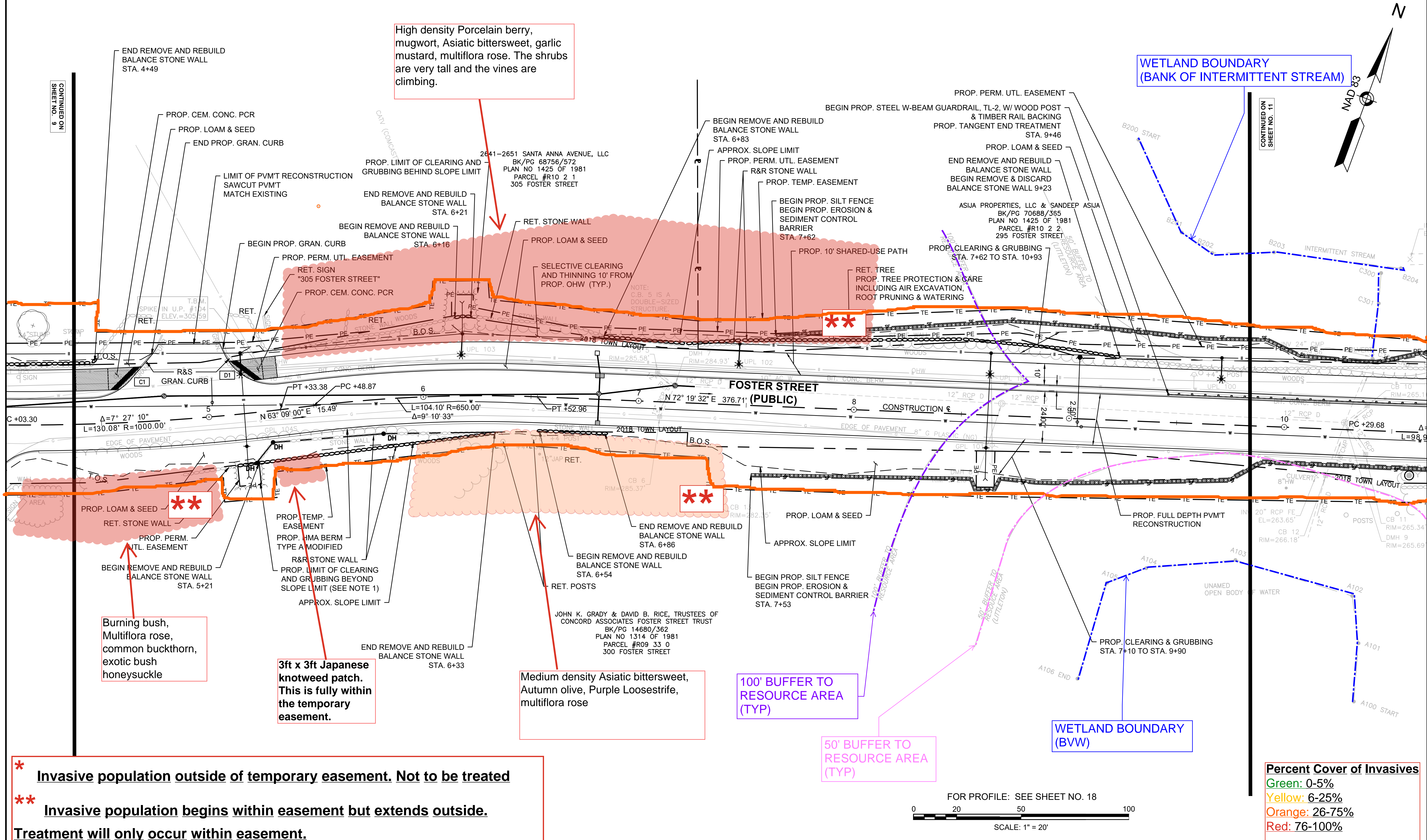
PROPOSED DRIVEWAY  
TYPE #

DR#

## LITTLETON RECONSTRUCTION OF FOSTER STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	10	128
PROJECT FILE NO.		609054	

## CONSTRUCTION PLANS



\* Invasive population outside of temporary easement. Not to be treated  
 \*\* Invasive population begins within easement but extends outside.  
 Treatment will only occur within easement.

Percent Cover of Invasives  
 Green: 0-5%  
 Yellow: 6-25%  
 Orange: 26-75%  
 Red: 76-100%

FOR PROFILE: SEE SHEET NO. 18  
 SCALE: 1" = 20'



# HIGHWAY GUARD DETAILS

STEEL W-BEAM GUARDRAIL (TL-2) W/ WOOD POST & TANGENT END STA. 9+46 LT TO TANGENT END STA 10+84 LT

STEEL W-BEAM GUARDRAIL (TL-2) W/ WOOD POST & TANGENT END STA. 11+83 LT TO TANGENT END STA 17+28 LT

# TRAFFIC SIGNAL CONDUIT

NONE

# WATER SUPPLY ALTERATIONS

SEE SHEET 57-64

# DRAINAGE DETAILS

SEE SHEET NOS. 65-67

# LEGEND:

PROPOSED PEDESTRIAN CURB RAMP DETAIL #

X#

PROPOSED DRIVEWAY TYPE #

DR#

# LITTLETON RECONSTRUCTION OF FOSTER STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	11	128
PROJECT FILE NO.		609054	

# CONSTRUCTION PLANS

WETLAND BOUNDARY  
(BANK OF INTERMITTENT STREAM)

Dense Asiatic bittersweet and multiflora rose.

Norway maple

Medium density glossy buckthorn and Asiatic bittersweet. Scattered plants.

WETLAND BOUNDARY  
(BVW)

ASJIA PROPERTIES, LLC & SANDEEP ASJIA  
BK/PG 70688/365  
PLAN NO 1425 OF 1981  
PARCEL #R10 2 2  
295 FOSTER STREET

END PROP. STEEL W-BEAM GUARDRAIL, TL-2, W/ WOOD POST  
PROP. TANGENT END TREATMENT  
& TIMBER RAIL BACKING  
STA. 10+84

END R&D STONE WALL AT  
TOWN LAYOUT LINE  
STA. 10+93

BEGIN PROP. GRAN. CURB  
(MATCH EXIST. BIT. BERM)

PROP. PVM'T MILLING MULCH  
BENEATH GUARDRAIL (TYP., SEE  
TYP. SECTIONS)  
TREE TRIMMING 10' FROM PROP.  
OHV (TYP.)  
STA. 11+70 TO 13+60  
PROP. 10' SHARED-USE PATH

PROP. PERM. UTL. EASEMENT  
PRIVATE SIGN TO BE  
RELOCATED BY OWNER  
PROP. TEMP. EASEMENT  
PROP. PVM'T MILLING MULCH  
BENEATH GUARDRAIL (TYP., SEE  
TYP. SECTIONS)  
PROP. LOAM & SEED  
PROP. CLEARING & GRUBBING  
STA. 7+62 TO STA. 10+93

END PROP. SILT FENCE  
END PROP. EROSION &  
SEDIMENT CONTROL BARRIER  
STA. 10+95

BEGIN PROP. SILT FENCE  
BEGIN PROP. EROSION & SEDIMENT  
CONTROL BARRIER STA. 11+77

END PROP. TIMBER RAIL FENCE  
STA. 14+61  
BEGIN REMOVE AND REBUILD BALANCE  
STONE WALL  
STA. 14+58

PROP. PERM. UTL. EASEMENT  
R&D EXIST.  
STONE WALL

RET. STONE WALL  
PROP. CEM. CONC. PCR  
RET. SIGN  
END PROP. GRAN. CURB  
LIMIT OF PVM'T  
RECONSTRUCTION  
SAWCUT PVM'T  
MATCH EXISTING

BEGIN PROP. TIMBER RAIL FENCE  
STA. 11+77  
PROP. CEM. CONC. PCR  
BEGIN PROP. STEEL W-BEAM  
GUARDRAIL, TL-2, W/ WOOD POST  
& TIMBER RAIL BACKING  
PROP. TANGENT END TREATMENT  
STA. 11+83

R&D PORTION OF EXIST. STONE  
WALL IN FRONT OF PROP. FENCE  
PROP. PERM. UTL. EASEMENT  
R&D ROW OF BOULDERS

INTERMITTENT STREAM

RET. SIGN  
"295 FOSTER STREET"

RET. TREE  
PROP. TREE PROTECTION & CARE  
INCLUDING AIR EXCAVATION,  
ROOT PRUNING & WATERING  
BEGIN REMOVE AND REBUILD  
BALANCE STONE WALL STA. 11+93

END REMOVE AND REBUILD  
BALANCE STONE WALL STA 14+08  
PROP. LIMIT OF  
CLEARING AND  
GRUBBING BEHIND  
SLOPE LIMIT

PROP. PERM. UTL. EASEMENT

RET. SIGN  
"295 FOSTER STREET"

RET. TREE  
PROP. TREE PROTECTION & CARE  
INCLUDING AIR EXCAVATION,  
ROOT PRUNING & WATERING  
BEGIN REMOVE AND REBUILD  
BALANCE STONE WALL STA. 11+93

END REMOVE AND REBUILD  
BALANCE STONE WALL STA 14+08  
PROP. LIMIT OF  
CLEARING AND  
GRUBBING BEHIND  
SLOPE LIMIT

PROP. PERM. UTL. EASEMENT

RET. SIGN  
"295 FOSTER STREET"

RET. TREE  
PROP. TREE PROTECTION & CARE  
INCLUDING AIR EXCAVATION,  
ROOT PRUNING & WATERING  
BEGIN REMOVE AND REBUILD  
BALANCE STONE WALL STA. 11+93

END REMOVE AND REBUILD  
BALANCE STONE WALL STA 14+08  
PROP. LIMIT OF  
CLEARING AND  
GRUBBING BEHIND  
SLOPE LIMIT

PROP. PERM. UTL. EASEMENT

RET. SIGN  
"295 FOSTER STREET"

RET. TREE  
PROP. TREE PROTECTION & CARE  
INCLUDING AIR EXCAVATION,  
ROOT PRUNING & WATERING  
BEGIN REMOVE AND REBUILD  
BALANCE STONE WALL STA. 11+93

END REMOVE AND REBUILD  
BALANCE STONE WALL STA 14+08  
PROP. LIMIT OF  
CLEARING AND  
GRUBBING BEHIND  
SLOPE LIMIT

PROP. PERM. UTL. EASEMENT

RET. SIGN  
"295 FOSTER STREET"

RET. TREE  
PROP. TREE PROTECTION & CARE  
INCLUDING AIR EXCAVATION,  
ROOT PRUNING & WATERING  
BEGIN REMOVE AND REBUILD  
BALANCE STONE WALL STA. 11+93

END REMOVE AND REBUILD  
BALANCE STONE WALL STA 14+08  
PROP. LIMIT OF  
CLEARING AND  
GRUBBING BEHIND  
SLOPE LIMIT

PROP. PERM. UTL. EASEMENT

RET. SIGN  
"295 FOSTER STREET"

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PROP. TREE PROTECTION & CARE  
INCLUDING AIR EXCAVATION,  
ROOT PRUNING & WATERING  
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PROP. PERM. UTL. EASEMENT

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SLOPE LIMIT

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CLEARING AND  
GRUBBING BEHIND  
SLOPE LIMIT

PROP. PERM. UTL. EASEMENT

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"295 FOSTER STREET"

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PROP. TREE PROTECTION & CARE  
INCLUDING AIR EXCAVATION,  
ROOT PRUNING & WATERING  
BEGIN REMOVE AND REBUILD  
BALANCE STONE WALL STA. 11+93

END REMOVE AND REBUILD  
BALANCE STONE WALL STA 14+08  
PROP. LIMIT OF  
CLEARING AND  
GRUBBING BEHIND  
SLOPE LIMIT

PROP. PERM. UTL. EASEMENT

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"295 FOSTER STREET"

RET. TREE  
PROP. TREE PROTECTION & CARE  
INCLUDING AIR EXCAVATION,  
ROOT PRUNING & WATERING  
BEGIN REMOVE AND REBUILD  
BALANCE STONE WALL STA. 11+93

END REMOVE AND REBUILD  
BALANCE STONE WALL STA 14+08  
PROP. LIMIT OF  
CLEARING AND  
GRUBBING BEHIND  
SLOPE LIMIT

PROP. PERM. UTL. EASEMENT

RET. SIGN  
"295 FOSTER STREET"

RET. TREE  
PROP. TREE PROTECTION & CARE  
INCLUDING AIR EXCAVATION,  
ROOT PRUNING & WATERING  
BEGIN REMOVE AND REBUILD  
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ROOT PRUNING & WATERING  
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END REMOVE AND REBUILD  
BALANCE STONE WALL STA 14+08  
PROP. LIMIT OF  
CLEARING AND  
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SLOPE LIMIT

PROP. PERM. UTL. EASEMENT

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INCLUDING AIR EXCAVATION,  
ROOT PRUNING & WATERING  
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BALANCE STONE WALL STA. 11+93

END REMOVE AND REBUILD  
BALANCE STONE WALL STA 14+08  
PROP. LIMIT OF  
CLEARING AND  
GRUBBING BEHIND  
SLOPE LIMIT

PROP. PERM. UTL. EASEMENT

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"295 FOSTER STREET"

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PROP. TREE PROTECTION & CARE  
INCLUDING AIR EXCAVATION,  
ROOT PRUNING & WATERING  
BEGIN REMOVE AND REBUILD  
BALANCE STONE WALL STA. 11+93

END REMOVE AND REBUILD  
BALANCE STONE WALL STA 14+08  
PROP. LIMIT OF  
CLEARING AND  
GRUBBING BEHIND  
SLOPE LIMIT

WETLAND BOUNDARY  
(BVW)

Large Norway Maple

Medium high density of  
multiflora rose, mugwort  
and Asiatic bittersweet.

Small  
Japanese  
knotweed  
patch. 15ft x  
5ft. Fully within  
easement.

Small  
Japanese  
knotweed  
patch. 5ft x  
10ft. Fully  
within  
easement.

Medium high density of bush  
honeysuckle, garlic mustard, glossy  
buckthorn, common buckthorn, and  
Norway maple. Low density of purple  
loosestrife.

WETLAND BOUNDARY  
(BVW)

# Percent Cover of Invasives

Green: 0-5%  
Yellow: 6-25%  
Orange: 26-75%  
Red: 76-100%

\* Invasive population outside of temporary easement. Not to be treated  
\*\* Invasive population begins within easement but extends outside.  
Treatment will only occur within easement.

100' BUFFER TO RESOURCE AREA (TYP)

50' BUFFER TO  
RESOURCE AREA (TYP)

FOR PROFILE: SEE SHEET NO. 19



JOHN K. GRADY & DAVID B. RICE, TRUSTEES OF  
CONCORD ASSOCIATES FOSTER STREET TRUST  
BK/PG 14680/362  
PLAN NO 1314 OF 1981  
PARCEL #R09 33 0  
300 FOSTER STREET

ANTHONY J. RIZZOLO, JR. & JOSEPHINE RIZZOLO  
BK/PG 17691/108  
PLAN NO 831 OF 1973  
PARCEL #R09 33 0  
290 FOSTER STREET



STEEL W-BEAM GUARDRAIL (TL-2) W/ WOOD POST & TANGENT END STA. 11+94  
TO TANGENT END STA 17+28

NONE

SEE SHEET 57-64

SEE SHEET NOS. 65-67

PROPOSED PEDESTRIAN CURE  
RAMP DETAIL #

X#

DR#

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	12	128
PROJECT FILE NO.		609054	

Low density of Asiatic bittersweet and garlic mustard.

## WETLAND BOUNDARY (BVW)

END FROM

\*\*\*

PROP. LOAM & SEED

### Percent Cover of Invasives

Yellow: 6-25%

Orange: 26-75%

Red: 76-100%

Recd. 70 100%

\* Invasive population outside of temporary easement. Not to be treated

**\*\* Invasive population begins within easement but extends outside.**

**Treatment will only occur within easement.**

GREGORY & SHERI BALZOTT  
BK/PG 50902/470  
PLAN NO 831 OF 1973  
PARCEL #R09 5 E  
284 FOSTER ST

JOSEPH W. & AMANDA LENNON,  
LIVING TRUSTEES OF THE  
AMANDA+JOSEPH LENNON LIVING TRUST  
BK/PG 64219/262  
PLAN NO 1628 OF 1972  
PARCEL #R09 5 A  
3 BULKELEY ROAD

20170044A21\_HPN01.DWG Plotted on 27-Mar-2024 9:59 AM



HIGHWAY GUARD DETAILS  
STEEL W-BEAM GUARDRAIL (TL-2) W/ WOOD POST & TANGENT END STA. 21+22 RT TO CONCRETE ABUTMENT STA 23+34 RT  
STEEL W-BEAM GUARDRAIL (TL-2) W/ WOOD POST & TANGENT END STA. 23+26 LT TO TANGENT END STA 26+04 LT  
STEEL W-BEAM GUARDRAIL (TL-2) W/ WOOD POST & TANGENT END STA. 24+52 RT TO TANGENT END STA 25+62 RT

WATER SUPPLY ALTERATIONS SEE SHEET 57-64  
DRAINAGE DETAILS SEE SHEET NOS. 65-67  
TRAFFIC SIGNAL CONDUIT NONE

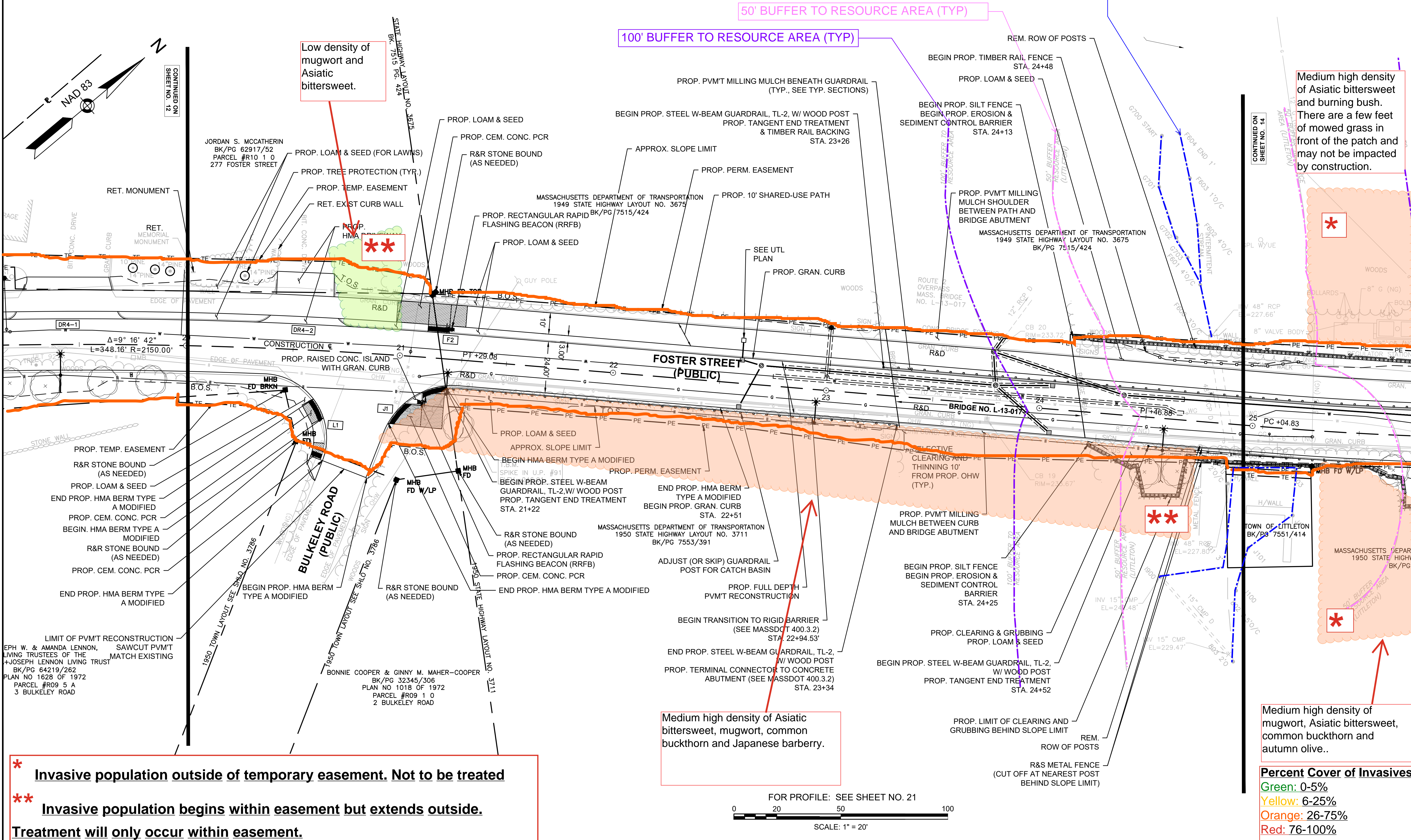
LEGEND:  
PROPOSED PEDESTRIAN CURB RAMP DETAIL # X#  
PROPOSED DRIVEWAY TYPE # DR#

LITTLETON

RECONSTRUCTION OF FOSTER STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	13	128
PROJECT FILE NO.		609054	

CONSTRUCTION PLANS



\* Invasive population outside of temporary easement. Not to be treated  
\*\* Invasive population begins within easement but extends outside.  
Treatment will only occur within easement.

Medium high density of mugwort, Asiatic bittersweet, common buckthorn and autumn olive..

**Percent Cover of Invasives**  
Green: 0-5%  
Yellow: 6-25%  
Orange: 26-75%  
Red: 76-100%



- \* **Invasive population outside of temporary easement. Not to be treated**
- \*\* **Invasive population begins within easement but extends outside.**
- Treatment will only occur within easement.**

WATER SUPPLY ALTERATIONS SEE SHEET 57-64  
DRAINAGE DETAILS SEE SHEET NOS. 65-67  
TRAFFIC SIGNAL CONDUIT  
NONE

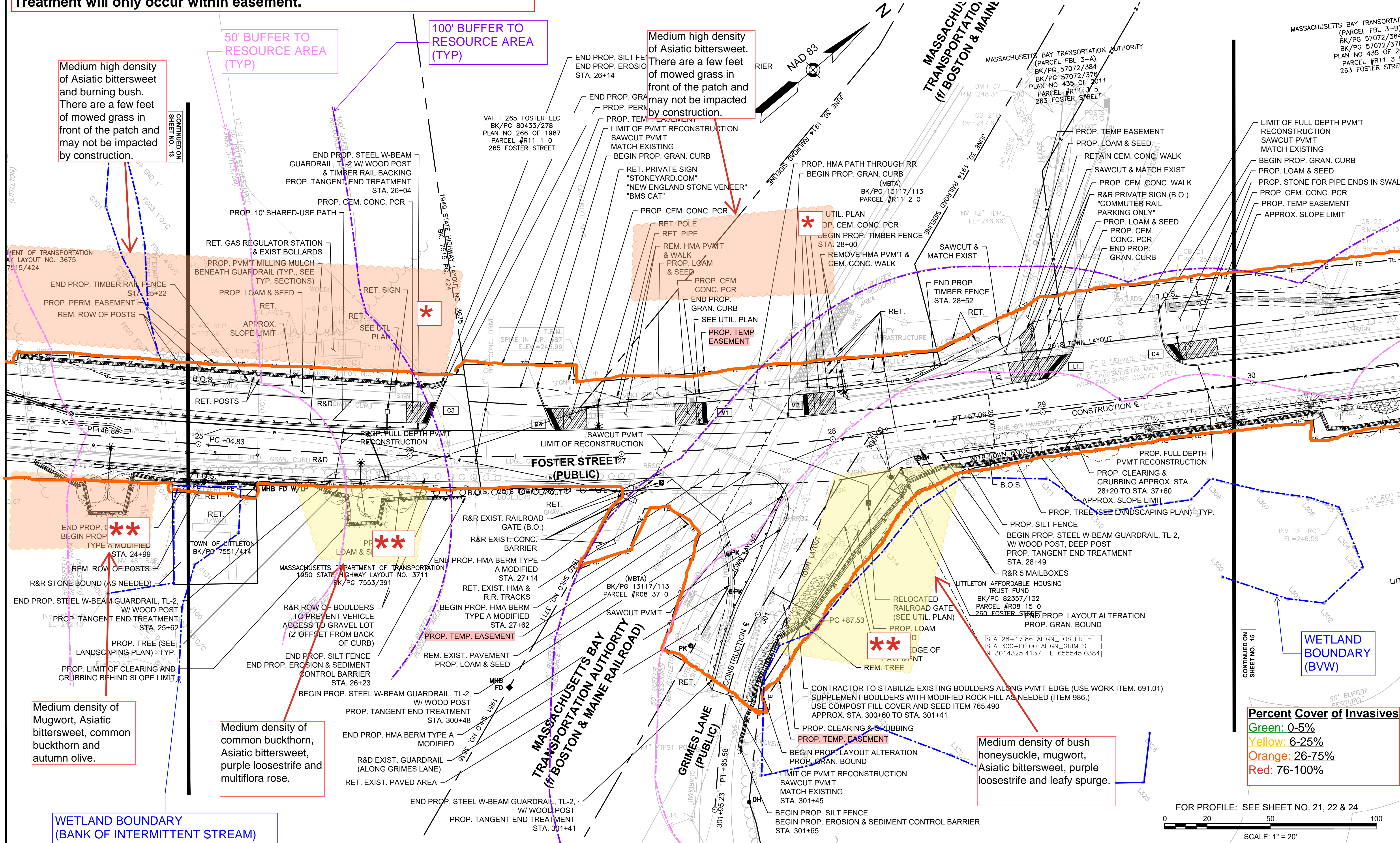
LEGEND:  
PROPOSED PEDESTRIAN CURB RAMP DETAIL # X#  
PROPOSED DRIVEWAY TYPE # DR#

LITTLETON

RECONSTRUCTION OF FOSTER STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	14	128
PROJECT FILE NO.		609054	

CONSTRUCTION PLANS





**\* Invasive population outside of temporary easement. Not to be treated**

**\*\* Invasive population begins within easement but extends outside.**

**Treatment will only occur within easement.**

WATER SUPPLY ALTERATIONS  
SEE SHEET 57-64

TRAFFIC SIGNAL CONDUIT  
NONE

DRAINAGE DETAILS  
SEE SHEET NOS. 65-67

LEGEND:  
PROPOSED PEDESTRIAN CURB  
RAMP DETAIL # X#

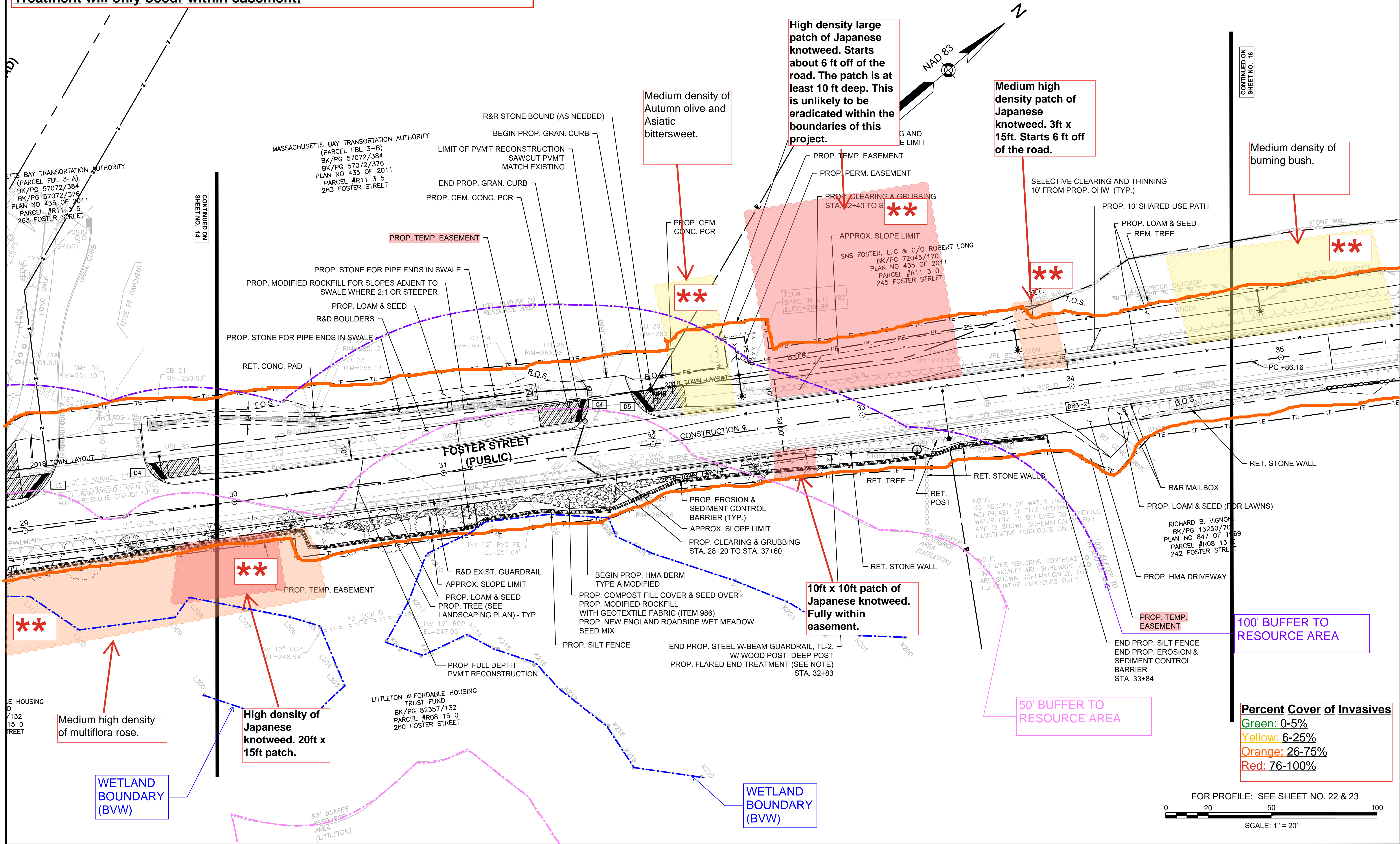
PROPOSED DRIVEWAY  
TYPE # DR#

LITTLETON

RECONSTRUCTION OF FOSTER STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	15	128
PROJECT FILE NO.		609054	

CONSTRUCTION PLANS



**Percent Cover of Invasives**

Green: 0-5%

Yellow: 6-25%

Orange: 26-75%

Red: 76-100%

FOR PROFILE: SEE SHEET NO. 22 & 23

0 20 50 100

SCALE: 1" = 20'



**\* Invasive population outside of temporary easement. Not to be treated**

**\*\* Invasive population begins within easement but extends outside.**

**Treatment will only occur within easement.**

WATER SUPPLY ALTERATIONS

SEE SHEET 57-64

DRAINAGE DETAILS

SEE SHEET NOS. 65-67

LEGEND:

PROPOSED PEDESTRIAN CURB  
RAMP DETAIL #

X#

PROPOSED DRIVEWAY  
TYPE #

DR#

LITTLETON  
RECONSTRUCTION OF FOSTER STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	16	128
PROJECT FILE NO.		609054	

CONSTRUCTION PLANS

PATRICIA A. NARGIZIAN  
BK/PG 70735/467  
PARCEL #R11 5 4  
237 FOSTER STREET

NOTE:  
C.B. 34 IS A  
DOUBLE-SIZED  
STRUCTURE.

END OF PROJECT  
PROJ. NO. 609054  
STA. 39+36.15  
N 3015278.1762  
E 656130.7752

Invasive Stockpile Location

RICHARD B. VIGNONI  
BK/PG 13250/70  
PLAN NO 847 OF 1169  
PARCEL #R08 13 D  
242 FOSTER STREET

100' BUFFER TO  
RESOURCE AREA (TYP)

High density patch of  
Japanese knotweed.  
15 ft x 5 ft. Likely  
able to be eradicated.

Low density of  
garlic mustard  
and multiflora  
rose.

Low density of burning bush,  
garlic mustard, glossy  
buckthorn, common  
buckthorn, and Asiatic  
bittersweet.

Percent Cover of Invasives

Green: 0-5%  
Yellow: 6-25%  
Orange: 26-75%  
Red: 76-100%

FOR PROFILE: SEE SHEET NO. 23

0 20 50 100

SCALE: 1" = 20'



## **APPENDIX B**

### **Photographs**





**Photo Number:** 1

**Direction:** SE

**Photographer:** Adriana Hughes

**Date:** 8.30.24

**Comments:** Large Norway Maple



**Photo Number:** 2

**Direction:** SE

**Photographer:** Adriana Hughes

**Date:** 8.30.24

**Comments:** Climbing Asiatic bittersweet.



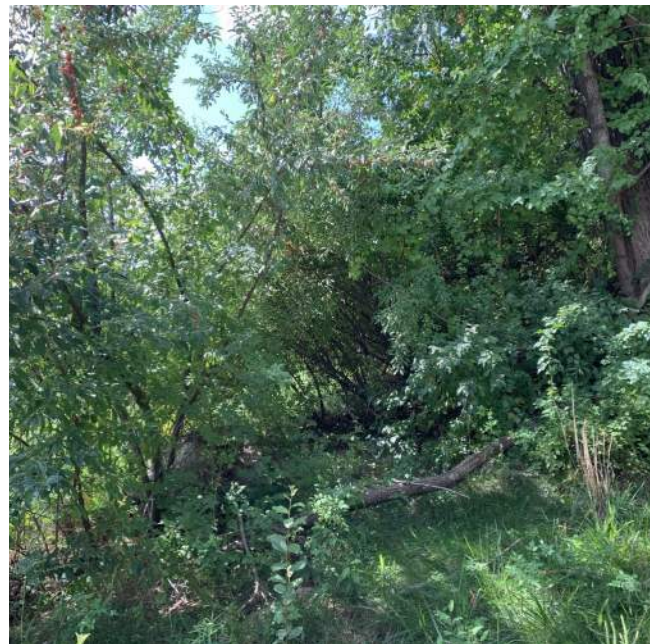
**Photo Number:** 3

**Direction:** Down

**Photographer:** Adriana Hughes

**Date:** 8.30.24

**Comments:** Small patch of Japanese knotweed near STA 5 + 50



**Photo Number:** 4

**Direction:** SE

**Photographer:** Adriana Hughes

**Date:** 8.30.24

**Comments:** Medium density of multiflora rose, Asiatic bittersweet and autumn olive.





**Photo Number:** 5

**Direction:** SW

**Photographer:** Adriana Hughes

**Date:** 8.30.24

**Comments:** Large autumn olive shrub.



**Photo Number:** 6

**Direction:** SW

**Photographer:** Adriana Hughes

**Date:** 8.30.24

**Comments:** Large Japanese knotweed patch growing along Taylor Street.



**Photo Number:** 7

**Direction:** W

**Photographer:** Adriana Hughes

**Date:** 8.30.24

**Comments:** Large Japanese knotweed patch growing along Taylor Street.



**Photo Number:** 8

**Direction:** NW

**Photographer:** Adriana Hughes

**Date:** 8.30.24

**Comments:** Low density of Asiatic bittersweet and garlic mustard by STA 6.





**Photo Number:** 9

**Direction:** NW

**Photographer:** Adriana Hughes

**Date:** 8.30.24

**Comments:** High density of Asiatic bittersweet and buck-thorn by STA 6 +15.



**Photo Number:** 10

**Direction:** NW

**Photographer:** Adriana Hughes

**Date:** 8.30.24

**Comments:** High density of climbing Asiatic bittersweet by STA 6 + 25.



**Photo Number:** 11

**Direction:** NW

**Photographer:** Adriana Hughes

**Date:** 8.30.24

**Comments:** High density of Asiatic bittersweet extending past the project boundaries by STA 7.



**Photo Number:** 12

**Direction:** NW

**Photographer:** Adriana Hughes

**Date:** 8.30.24

**Comments:** High density of climbing Asiatic bittersweet and porcelain berry between STA 7 and 8.





**Photo Number:** 13

**Direction:** NW

**Photographer:** Adriana Hughes

**Date:** 8.30.24

**Comments:** Close up of porcelain berry.



**Photo Number:** 14

**Direction:** NW

**Photographer:** Adriana Hughes

**Date:** 8.30.24

**Comments:** Close up of porcelain berry and multiflora rose.



**Photo Number:** 15

**Direction:** W

**Photographer:** Adriana Hughes

**Date:** 8.30.24

**Comments:** High density climbing Asiatic bittersweet.



**Photo Number:** 16

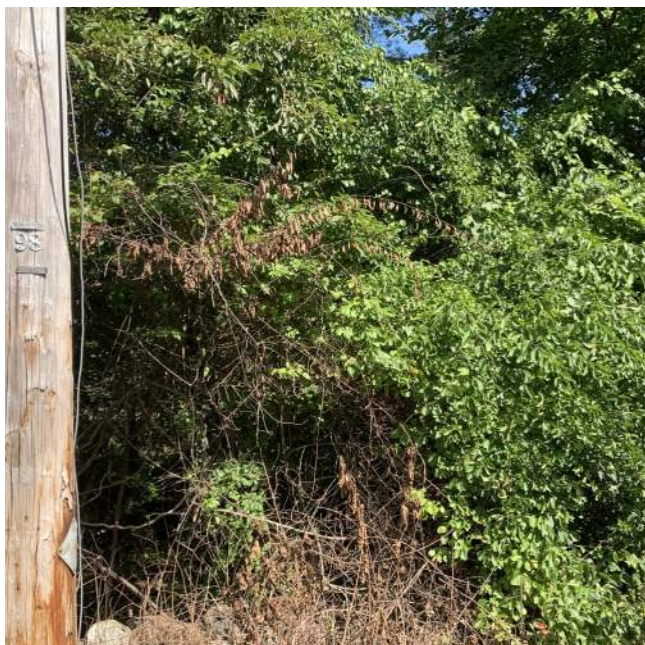
**Direction:** NW

**Photographer:** Adriana Hughes

**Date:** 8.30.24

**Comments:** Medium high density climbing Asiatic bittersweet.





**Photo Number:** 17

**Direction:** NW

**Photographer:** Adriana Hughes

**Date:** 8.30.24

**Comments:** High density climbing Asiatic bittersweet.



**Photo Number:** 18

**Direction:** NW

**Photographer:** Adriana Hughes

**Date:** 8.30.24

**Comments:** Medium density Asiatic bittersweet and glossy buckthorn.



**Photo Number:** 19

**Direction:** NW

**Photographer:** Adriana Hughes

**Date:** 8.30.24

**Comments:** Medium density burning bush near STA 24 + 50.



**Photo Number:** 20

**Direction:** NW

**Photographer:** Adriana Hughes

**Date:** 8.30.24

**Comments:** High density Japanese knotweed patch near STA 33.





**Photo Number:** 21

**Direction:** NW

**Photographer:** Adriana Hughes

**Date:** 8.30.24

**Comments:** Medium density Japanese knotweed near STA 34.



**Photo Number:** 22

**Direction:** NW

**Photographer:** Adriana Hughes

**Date:** 8.30.24

**Comments:** Medium density of glossy buckthorn and multiflora rose near STA 38.



**Photo Number:** 23

**Direction:** SE

**Photographer:** Adriana Hughes

**Date:** 8.30.24

**Comments:** Medium density Japanese knotweed near STA 36.



**Photo Number:** 24

**Direction:** SE

**Photographer:** Adriana Hughes

**Date:** 8.30.24

**Comments:** Medium density Japanese knotweed near STA 36.





**Photo Number:** 25

**Direction:** NW

**Photographer:** Adriana Hughes

**Date:** 8.30.24

**Comments:** Medium density garlic mustard, glossy buckthorn and bush honeysuckle near STA 38.



**Photo Number:** 26

**Direction:** W

**Photographer:** Adriana Hughes

**Date:** 8.30.24

**Comments:** High density Japanese knotweed patch.



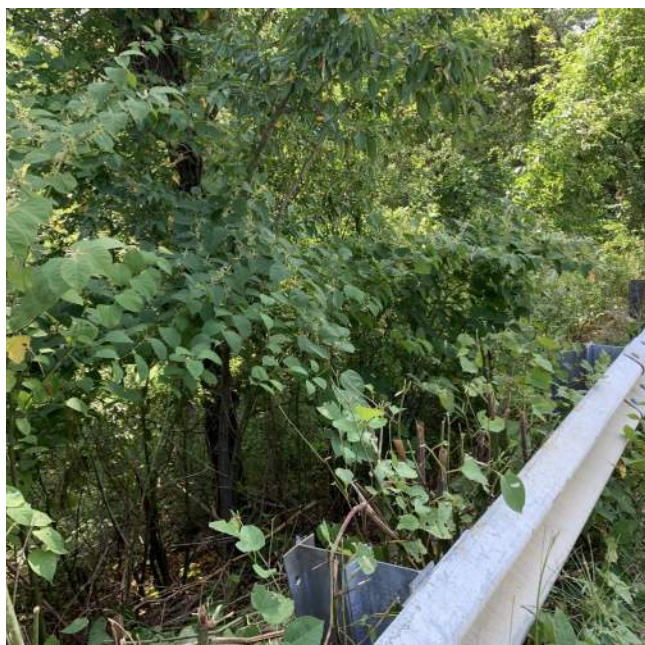
**Photo Number:** 27

**Direction:** NW

**Photographer:** Adriana Hughes

**Date:** 8.30.24

**Comments:** Medium density garlic mustard, glossy buckthorn and bush honeysuckle extending outside the project boundaries near STA 38.



**Photo Number:** 28

**Direction:** SE

**Photographer:** Adriana Hughes

**Date:** 8.30.24

**Comments:** High density Japanese knotweed patch near STA 32 + 50.



## **APPENDIX C**

### **MassDOT Herbicide Use Report Form**



# MassDOT Herbicide Use Report

**Date Submitted:**

*Use multiple sheets for multiple application techniques or sites as needed.*

The diagram illustrates a network structure with black rectangular nodes and white connecting lines. The nodes are arranged in a hierarchical or branching pattern. At the top, a large node branches into two smaller nodes. Below these, there are more nodes, some of which are connected to each other in a more complex, non-linear fashion. The connections are represented by thin white lines, creating a web-like structure. The overall layout suggests a flow or relationship between different entities or components.

**Product Used:**

Name: _____ EPA Reg. No: _____ % Active Ingredient _____ Dry: _____ Liquid: _____ Formulation (dilution rate): _____	Name: _____ EPA Reg. No: _____ % Active Ingredient _____ Dry: _____ Liquid: _____ Formulation (dilution rate): _____	Name: _____ EPA Reg. No: _____ % Active Ingredient _____ Dry: _____ Liquid: _____ Formulation (dilution rate): _____
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[REDACTED]

**Applicators:**

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**License Numbers:**

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*Upon completion, please submit form to MassDOT District Engineer and Landscape Design Section in Boston office.*



# Revised Project Plans



MASSACHUSETTS DEPARTMENT OF TRANSPORTATION  
HIGHWAY DIVISION

PLAN AND PROFILE OF  
FOSTER STREET  
(BRIDGE NO. L-13-017)

IN THE TOWN OF  
LITTLETON  
MIDDLESEX COUNTY

FEDERAL AID PROJECT NO. STP/CMQ/TAP-0033(037)X

PERMITTING PLAN SET

LITTLETON  
RECONSTRUCTION OF FOSTER STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	1	128
PROJECT FILE NO.		609054	

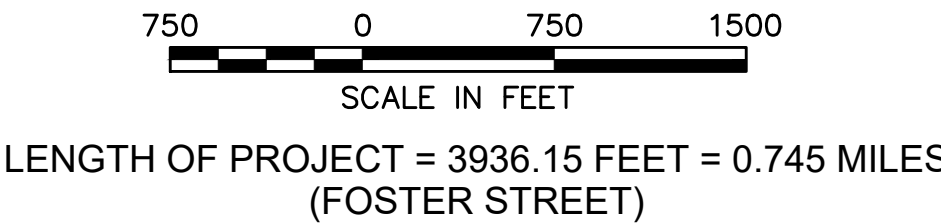
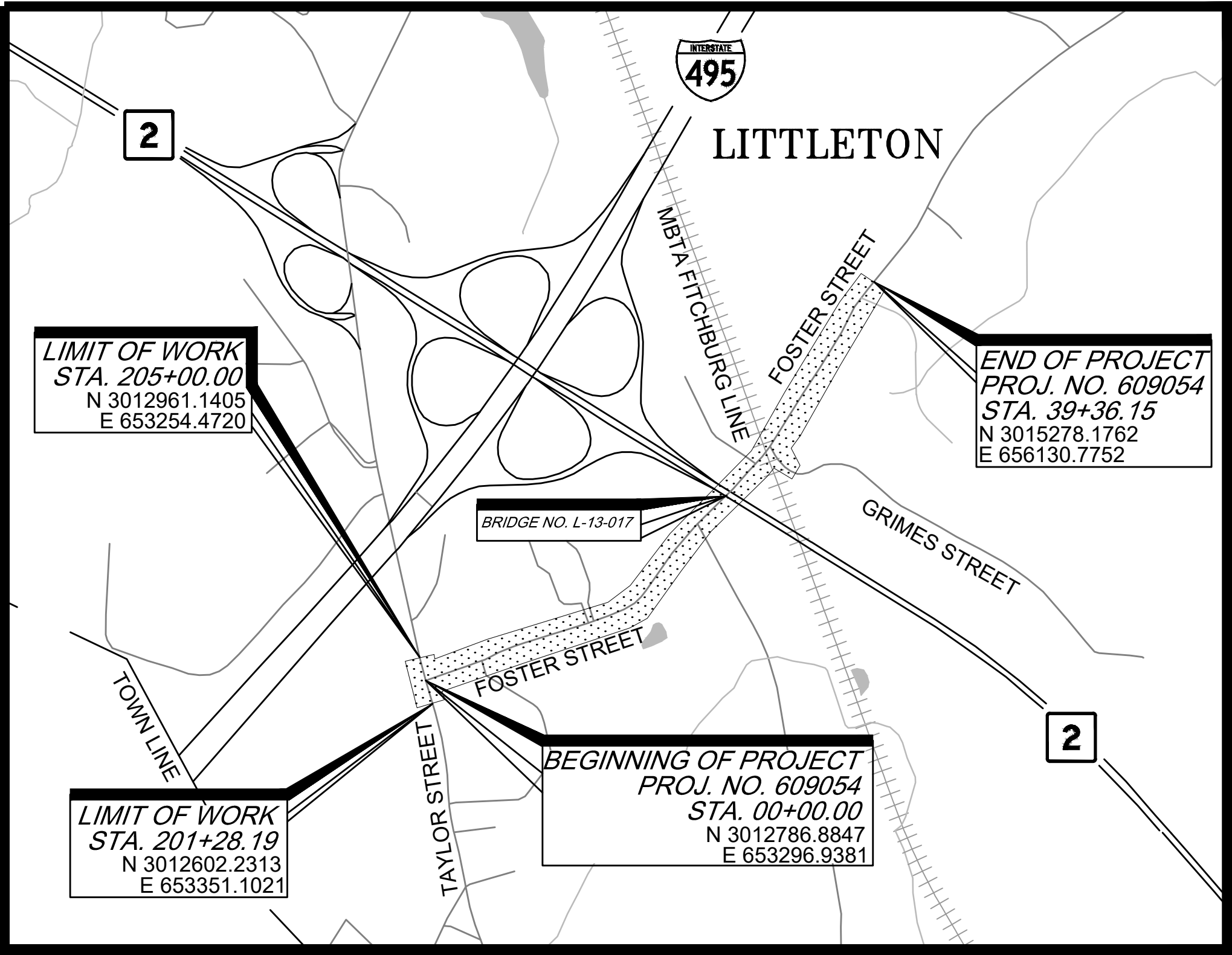
TITLE SHEET & INDEX

THESE PLANS ARE SUPPLEMENTED BY THE OCTOBER 2017 CONSTRUCTION STANDARD DETAILS, THE 2015 OVERHEAD SIGNAL STRUCTURE AND FOUNDATION STANDARD DRAWINGS, MASSDOT TRAFFIC MANAGEMENT PLANS AND DETAIL DRAWINGS, THE 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, THE 1968 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING, AND THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK.

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET & INDEX
2	LEGEND & GENERAL NOTES
3	KEY PLAN & BORING LOCATIONS
4-8	TYPICAL SECTIONS
9-16	CONSTRUCTION PLANS
17-23	PROFILE - FOSTER STREET
24	PROFILE - GRIMES LANE
25-32	CURB & BASELINE TIE PLANS*
33-40	GRADING PLANS
41-48	PAVEMENT MARKING & SIGNING PLANS
49-50	TRAFFIC SIGN SUMMARY*
51-56	TEMPORARY TRAFFIC CONTROL PLANS*
57-64	DRAINAGE & UTILITY PLANS
65-72	LANDSCAPING PLANS
73-74	DRAINAGE & UTILITY DETAILS
75-78	CONSTRUCTION DETAILS*
79-82	PEDESTRIAN CURB RAMP & DRIVEWAY DETAILS*
83-128	CROSS SECTIONS*
E1-E8	ENVIRONMENTAL IMPACT PLANS COLOR

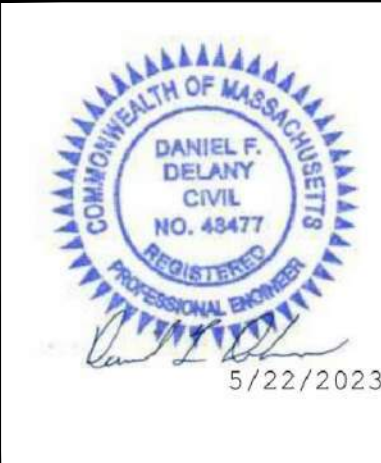
\*NOT INCLUDED IN PERMITTING PLAN SET




DESIGN DESIGNATION (FOSTER STREET)

DESIGN SPEED	35 MPH
ADT (2017)	2,100
ADT (2037)	2,562
K	12%
D	69% (NB)
T (PEAK HOUR)	0.9%
T (AVERAGE DAY)	5.5%
DHV	252
DDHV	174 (NB)
FUNCTIONAL CLASSIFICATION	URBAN COLLECTOR

NOT FOR CONSTRUCTION






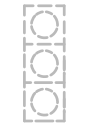
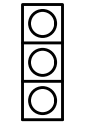


































































































































































































































































4-29-2025	AMENDED OOC SUBMISSION	
12-11-2023	NOI SUBMISSION	
DATE	DESCRIPTION	REV #
		
APPROVED		
CHIEF ENGINEER		DATE



FUSS & O'NEILL  
1550 MAIN STREET, SUITE 400  
SPRINGFIELD, MA 01103  
413.452.0445  
www.fando.com



GENERAL SYMBOLS			TRAFFIC SYMBOLS			ABBREVIATIONS	
EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION	GENERAL	
 JB	 JB	JERSEY BARRIER ON BRIDGE OR JERSEY BARRIER	 TS	 TS	CONTROLLER PHASE ACTUATED	AADT	ANNUAL AVERAGE DAILY TRAFFIC
 CB		CATCH BASIN	 TS	 TS	TRAFFIC SIGNAL HEAD (SIZE AS NOTED)	ABAN	ABANDON
 CBCI	 CBCI	CATCH BASIN CURB INLET				ADJ	ADJUST
 LB		LEACHING BASIN				APPROX.	APPROXIMATE
 DI	 DI	DROP INLET				A.C.	ASPHALT CONCRETE
 CONC. HDR		CONCRETE HEADWALL	 TS	 TS	WIRE LOOP DETECTOR (6' x 6' TYP UNLESS OTHERWISE SPECIFIED)	ACCM PIPE	ASPHALT COATED CORRUGATED METAL PIPE
 STONE HDR		STONE HEADWALL	 TS	 TS	VIDEO DETECTION CAMERA	BIT.	BITUMINOUS
 FP	 FP	FLAG POLE	 TS	 TS	MICROWAVE DETECTOR	BC	BOTTOM OF CURB
 GP		GAS PUMP	 TS	 TS	PEDESTRIAN PUSH BUTTON, SIGN (DIRECTIONAL ARROW AS SHOWN) AND SADDLE	BD.	BOUND
 MB	 MB	MAIL BOX	 TS	 TS	EMERGENCY PREEMPTION CONFIRMATION STROBE LIGHT	BL	BASELINE
 POST SQUARE	 POST SQUARE	POST SQUARE	 TS	 TS	VEHICULAR SIGNAL HEAD	BLDG	BUILDING
 POST CIRCULAR	 POST CIRCULAR	POST CIRCULAR	 TS	 TS	VEHICULAR SIGNAL HEAD, OPTICALLY PROGRAMMED	BO	BY OTHERS
 WELL	 WELL	WELL	 TS	 TS	FLASHING BEACON	BOS	BOTTOM OF SLOPE
 EHH	 EHH	ELECTRIC HANDHOLE	 TS	 TS	PEDESTRIAN SIGNAL HEAD, (TYPE AS NOTED OR AS SPECIFIED)	BR.	BRIDGE
 FENCE GATE POST	 FENCE GATE POST	FENCE GATE POST	 TS	 TS	RAILROAD SIGNAL	CB	CATCH BASIN
 GG	 GG	GAS GATE	 TS	 TS	SIGNAL POST AND BASE (ALPHA-NUMERIC DESIGNATION NOTED)	CBCI	CATCH BASIN WITH CURB INLET
 BHL #	 BHL #	BORING HOLE	 TS	 TS	MAST ARM, SHAFT AND BASE (ARM LENGTH AS NOTED)	CC	CEMENT CONCRETE
 MW #	 MW #	MONITORING WELL	 TS	 TS	HIGH MAST POLE OR TOWER	CCM	CEMENT CONCRETE MASONRY
 TP #	 TP #	TEST PIT	 TS	 TS	SIGN AND POST	CEM	CEMENT
 HYDRANT	 HYDRANT	HYDRANT	 TS	 TS	SIGN AND POST (2 POSTS)	CI	CURB INLET
 LIGHT POLE	 LIGHT POLE	LIGHT POLE	 TS	 TS	MAST ARM WITH LUMINAIRE	CIP	CAST IRON PIPE
 COUNTY BOUND	 COUNTY BOUND	COUNTY BOUND	 TS	 TS	OPTICAL PRE-EMPTION DETECTOR	CLF	CHAIN LINK FENCE
 GPS POINT	 GPS POINT	GPS POINT	 TS	 TS	CONTROL CABINET, GROUND MOUNTED	CL	CENTERLINE
 CABLE MANHOLE	 CABLE MANHOLE	CABLE MANHOLE	 TS	 TS	CONTROL CABINET, POLE MOUNTED	CMP	CORRUGATED METAL PIPE
 DRAINAGE MANHOLE	 DRAINAGE MANHOLE	DRAINAGE MANHOLE	 TS	 TS	FLASHING BEACON CONTROL AND METER	CSP	CORRUGATED STEEL PIPE
 ELECTRIC MANHOLE	 ELECTRIC MANHOLE	ELECTRIC MANHOLE	 TS	 TS	PEDESTAL	CO.	COUNTY
 GAS MANHOLE	 GAS MANHOLE	GAS MANHOLE	 TS	 TS	LOAD CENTER ASSEMBLY	CONC	CONCRETE
 MISC MANHOLE	 MISC MANHOLE	MISC MANHOLE	 TS	 TS	PULL BOX 12"x12" (OR AS NOTED)	CONT	CONTINUOUS
 SEWER MANHOLE	 SEWER MANHOLE	SEWER MANHOLE	 TS	 TS	ELECTRIC HANDHOLE 12"x24" (OR AS NOTED)	CONST	CONSTRUCTION
 TELEPHONE MANHOLE	 TELEPHONE MANHOLE	TELEPHONE MANHOLE	 TS	 TS	TRAFFIC SIGNAL CONDUIT	CR GR	CROWN GRADE
 WATER MANHOLE	 WATER MANHOLE	WATER MANHOLE	 TS	 TS		DHV	DESIGN HOURLY VOLUME
 MASSACHUSETTS HIGHWAY BOUND MONUMENT	 MASSACHUSETTS HIGHWAY BOUND MONUMENT	MASSACHUSETTS HIGHWAY BOUND MONUMENT	 TS	 TS		DI	DROP INLET
 STONE BOUND	 STONE BOUND	STONE BOUND	 TS	 TS		DIA	DIAMETER
 TOWN OR CITY BOUND	 TOWN OR CITY BOUND	TOWN OR CITY BOUND	 TS	 TS		DIP	DUCTILE IRON PIPE
 TRAVERSE OR TRIANGULATION STATION	 TRAVERSE OR TRIANGULATION STATION	TRAVERSE OR TRIANGULATION STATION	 TS	 TS		DW	STEADY DON'T WALK - PORTLAND ORANGE
 TROLLEY POLE OR GUY POLE	 TROLLEY POLE OR GUY POLE	TROLLEY POLE OR GUY POLE	 TS	 TS		DWY	DRIVEWAY
 TRANSMISSION POLE	 TRANSMISSION POLE	TRANSMISSION POLE	 TS	 TS		ELEV (or EL.)	ELEVATION
 UTILITY POLE W/ FIREBOX	 UTILITY POLE W/ FIREBOX	UTILITY POLE W/ FIREBOX	 TS	 TS		EMB	EMBANKMENT
 UTILITY POLE WITH DOUBLE LIGHT	 UTILITY POLE WITH DOUBLE LIGHT	UTILITY POLE WITH DOUBLE LIGHT	 TS	 TS		EOP	EDGE OF PAVEMENT
 UTILITY POLE W / 1 LIGHT	 UTILITY POLE W / 1 LIGHT	UTILITY POLE W / 1 LIGHT	 TS	 TS		EXIST (or EX)	EXISTING
 UTILITY POLE	 UTILITY POLE	UTILITY POLE	 TS	 TS		EXC	EXCAVATION
 BUSH	 BUSH	BUSH	 TS	 TS		F&C	FRAME AND COVER
 TREE	 TREE	TREE	 TS	 TS		F&G	FRAME AND GRATE
 STUMP	 STUMP	STUMP	 TS	 TS		FDN.	FOUNDATION
 SWAMP / MARSH	 SWAMP / MARSH	SWAMP / MARSH	 TS	 TS		FLDSTN	FIELDSTONE
 WETLAND FLAG	 WETLAND FLAG	WETLAND FLAG	 TS	 TS		GAR	GARAGE
 WATER GATE	 WATER GATE	WATER GATE	 TS	 TS		GD	GROUND
 PARKING METER	 PARKING METER	PARKING METER	 TS	 TS		GG	GAS GATE
 OVERHEAD CABLE/WIRE	 OVERHEAD CABLE/WIRE	OVERHEAD CABLE/WIRE	 TS	 TS		GI	GUTTER INLET
 CURBING	 CURBING	CURBING	 TS	 TS		GIP	GALVANIZED IRON PIPE
 CONTOURS	 CONTOURS	CONTOURS	 TS	 TS		GRAN	GRANITE
 UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER)	 UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER)	UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER)	 TS	 TS		GRAV	GRAVEL
 UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER)	 UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER)	UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER)	 TS	 TS		GRD	GUARD
 UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER)	 UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER)	UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER)	 TS	 TS		HDW	HEADWALL
 UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER)	 UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER)	UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER)	 TS	 TS		HMA	HOT MIX ASPHALT
 UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER)	 UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER)	UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER)	 TS	 TS		HOR	HORIZONTAL
 UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER)	 UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER)	UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER)	 TS	 TS		HYD	HYDRANT
 BALANCE STONE WALL	 BALANCE STONE WALL	BALANCE STONE WALL	 TS	 TS		INV	INVERT
 RETAINING WALL	 RETAINING WALL	RETAINING WALL	 TS	 TS		JCT	JUNCTION
 DOUBLE FACED WALL (CONCRETE OR MASONRY)	 DOUBLE FACED WALL (CONCRETE OR MASONRY)	DOUBLE FACED WALL (CONCRETE OR MASONRY)	 TS	 TS		L	LENGTH OF CURVE
 GUARD RAIL - STEEL POSTS	 GUARD RAIL - STEEL POSTS	GUARD RAIL - STEEL POSTS	 TS	 TS		LB	LEACH BASIN
 GUARD RAIL - WOOD POSTS	 GUARD RAIL - WOOD POSTS	GUARD RAIL - WOOD POSTS	 TS	 TS		LP	LIGHT POLE
 CHAIN LINK OR METAL FENCE	 CHAIN LINK OR METAL FENCE	CHAIN LINK OR METAL FENCE	 TS	 TS		LT	LEFT
 WOOD FENCE (STOCKADE OR PICKET)	 WOOD FENCE (STOCKADE OR PICKET)	WOOD FENCE (STOCKADE OR PICKET)	 TS	 TS		MAX	MAXIMUM
 WOOD RAIL FENCE	 WOOD RAIL FENCE	WOOD RAIL FENCE	 TS	 TS		MB	MAILBOX
 EROSION CONTROL BARRIER	 EROSION CONTROL BARRIER	EROSION CONTROL BARRIER	 TS	 TS		MH	MANHOLE
 TREE LINE OR LIMIT OF CLEARING AND GRUBBING	 TREE LINE OR LIMIT OF CLEARING AND GRUBBING	TREE LINE OR LIMIT OF CLEARING AND GRUBBING	 TS	 TS		MHB	MASSACHUSETTS HIGHWAY BOUND
 SAWCUT LINE	 SAWCUT LINE	SAWCUT LINE	 TS	 TS		MIN	MINIMUM
 TOP OR BOTTOM OF SLOPE	 TOP OR BOTTOM OF SLOPE	TOP OR BOTTOM OF SLOPE					



LITTLETON  
RECONSTRUCTION OF FOSTER STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	3	128
PROJECT FILE NO.		609054	

KEY PLAN & BORING LOCATIONS

END OF PROJECT  
PROJ. NO. 609054  
STA 39+36.89  
N3015278.1762  
E656130.7752

CONSTRUCTION PLAN SHEET 16  
CURB & BASELINE TIE PLANS SHEET 32  
GRADING PLANS SHEET 40  
PAVEMENT MARKING PLAN SHEET 48  
DRAIN & UTILITY PLAN 64

BORING  
B-1

PAVEMENT  
CORE C-5

CONSTRUCTION PLAN SHEET 15  
CURB & BASELINE TIE PLANS SHEET 31  
GRADING PLANS SHEET 39  
PAVEMENT MARKING PLAN SHEET 47  
DRAIN & UTILITY PLAN 63

PAVEMENT  
CORE C-4

ROUTE 2

MBTA

MBTA FITCHBURG LINE

GRIMES LANE

FOSTER ST

BULKELEY ROAD

LIMIT OF WORK  
STA 205+00.00  
N3012961.1405  
E653254.4720

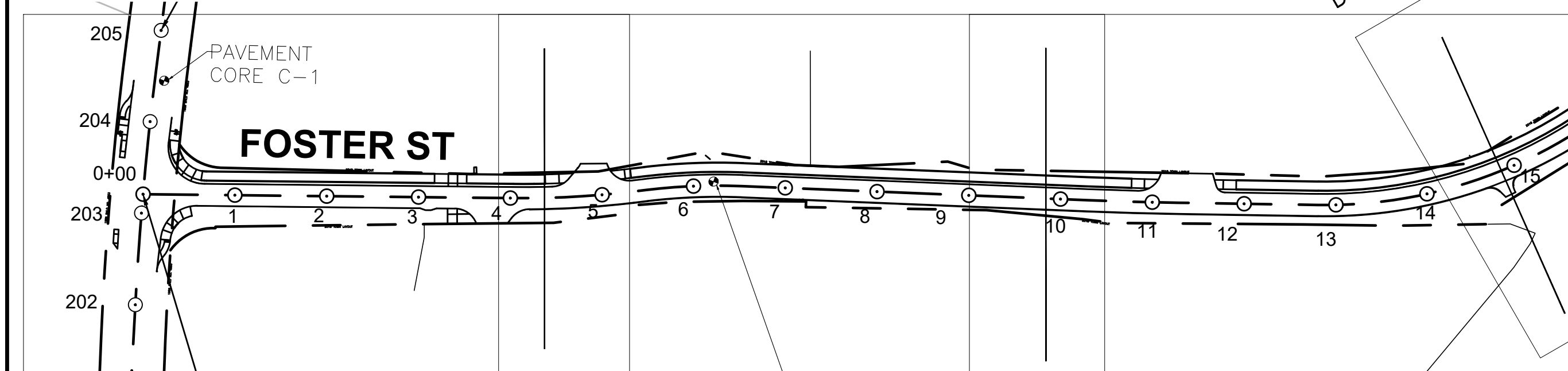
CONSTRUCTION PLAN SHEET 9  
CURB & BASELINE TIE PLANS SHEET 25  
GRADING PLANS SHEET 33  
PAVEMENT MARKING PLAN SHEET 41  
DRAIN & UTILITY PLAN 57

CONSTRUCTION PLAN SHEET 10  
CURB & BASELINE TIE PLANS SHEET 26  
GRADING PLANS SHEET 34  
PAVEMENT MARKING PLAN SHEET 42  
DRAIN & UTILITY PLAN 58

CONSTRUCTION PLAN SHEET 12  
CURB & BASELINE TIE PLANS SHEET 28  
GRADING PLANS SHEET 36  
PAVEMENT MARKING PLAN SHEET 44  
DRAIN & UTILITY PLAN 60

CONSTRUCTION PLAN SHEET 13  
CURB & BASELINE TIE PLANS SHEET 29  
GRADING PLANS SHEET 37  
PAVEMENT MARKING PLAN SHEET 45  
DRAIN & UTILITY PLAN 61

CONSTRUCTION PLAN SHEET 14  
CURB & BASELINE TIE PLANS SHEET 30  
GRADING PLANS SHEET 38  
PAVEMENT MARKING PLAN SHEET 46  
DRAIN & UTILITY PLAN 62



FOSTER ST

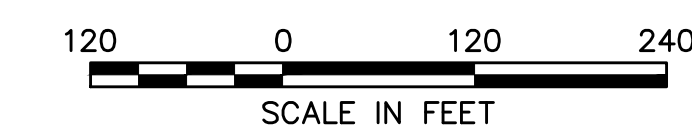
BEGINNING OF PROJECT  
PROJ. NO. 609054  
STA 0+00.00  
N3012786.8847  
E653296.9381

LIMIT OF WORK  
STA 201+28.19  
N3012602.2313  
E653351.1021

PAVEMENT  
CORE C-2

CONSTRUCTION PLAN SHEET 11  
CURB & BASELINE TIE PLANS SHEET 27  
GRADING PLANS SHEET 35  
PAVEMENT MARKING PLAN SHEET 43  
DRAIN & UTILITY PLAN 59

PAVEMENT  
CORE C-3





LITTLETON  
RECONSTRUCTION OF FOSTER STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	4	128
PROJECT FILE NO.		609054	

TYPICAL SECTIONS - FOSTER ST

PAVEMENT NOTES:

PROPOSED PAVEMENT MILLING AND OVERLAY - FOSTER STREET

1-1/2" PAVEMENT FINE MILLING  
1-1/2" SUPERPAVE SURFACE COURSE - 9.5  
MILLING TO BE VARIABLE DEPTH (INCREASING) AT PROJECT LIMITS TO MEET EXISTING GRADE ON TAYLOR ST  
MILLING TO BE VARIABLE DEPTH (DECREASING) AT SAWCUT TRANSITION ON FOSTER ST EAST OF BALSAM LN

PROPOSED FULL DEPTH PAVEMENT RECONSTRUCTION

SURFACE: 1-1/2" SUPERPAVE SURFACE COURSE - 9.5 (SSC - 9.5) OVER  
INTERMEDIATE: 1-3/4" SUPERPAVE INTERMEDIATE COURSE - 12.5 OVER  
3-1/2" SUPERPAVE INTERMEDIATE COURSE - 19.0 OVER  
SUBBASE: 4" DENSE GRADED CRUSHED STONE  
8" GRAVEL BORROW, TYPE b

PROPOSED SHARED-USE PATH FULL DEPTH PAVEMENT

SURFACE: 1-1/2" SUPERPAVE SURFACE COURSE - 9.5 (SSC - 9.5) OVER  
INTERMEDIATE: 2-1/2" SUPERPAVE INTERMEDIATE COURSE- 19.0 OVER  
SUBBASE: 8" GRAVEL BORROW, TYPE b

PROPOSED HOT MIX ASPHALT SIDEWALK OR DRIVEWAY

SURFACE: 1-1/2" SUPERPAVE SURFACE COURSE - 9.5 (SSC - 9.5) OVER  
2-1/2" SUPERPAVE INTERMEDIATE COURSE - 12.5 (SIC - 12.5)  
FOUNDATION: 8" GRAVEL BORROW, TYPE b.

PROPOSED CEMENT CONCRETE SIDEWALK

SURFACE: 4" CEMENT CONCRETE  
AIR ENTRAINED 4000psi, 3/4", 610  
FOUNDATION: 8" GRAVEL BORROW, TYPE b.

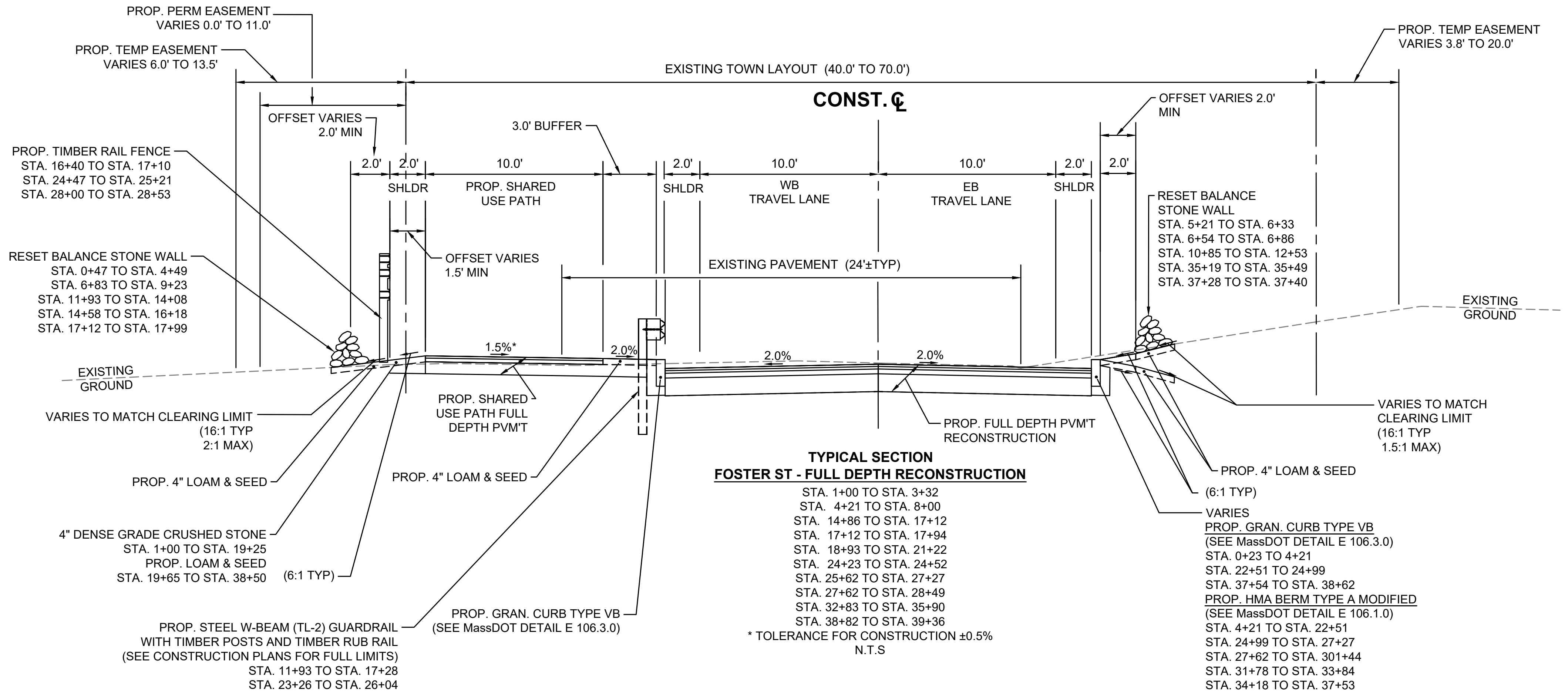
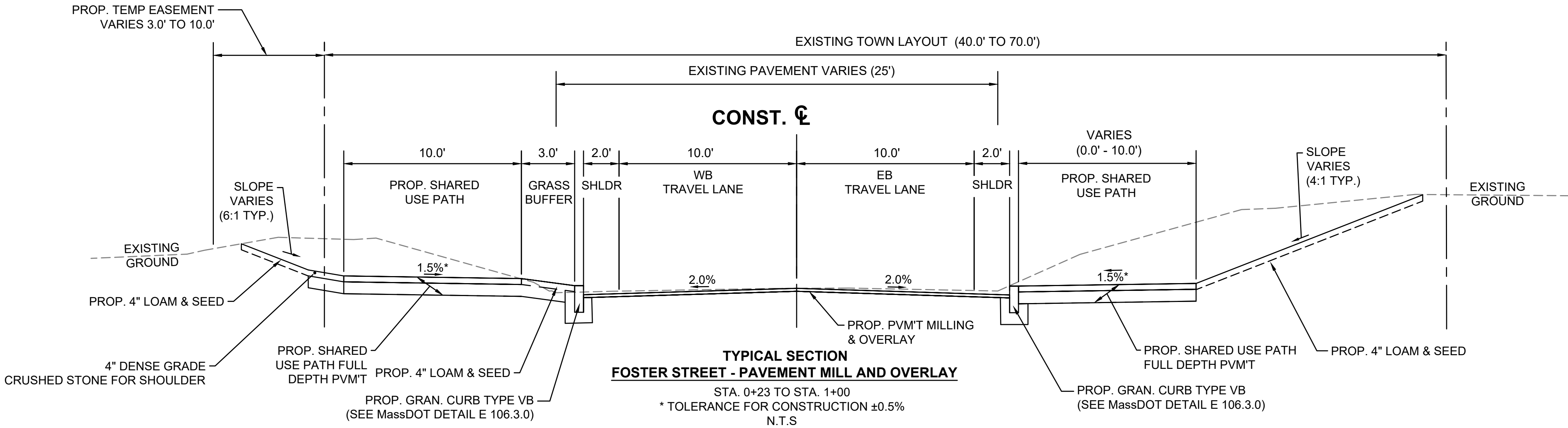
PROPOSED CEMENT CONCRETE PEDESTRIAN CURB RAMP

SURFACE: 6" CEMENT CONCRETE  
AIR ENTRAINED 4000psi, 3/4", 610  
FOUNDATION: 8" GRAVEL BORROW, TYPE b.

NOTES: ASPHALT EMULSION FOR TACK COAT AND HMA JOINT SEALANT SHALL BE APPLIED PER SECTION 450 QA OF THE SPECIAL PROVISIONS.

HMA FOR PATCHING SHALL BE USED FOR ALL PERMANENT, PARTIAL, AND FULL DEPTH PAVEMENT REPAIRS OF UNSOUND PAVEMENT PER SECTION 450 IN AREAS OUTSIDE OF PROPOSED FULL DEPTH RECLAMATION OR RECONSTRUCTION ROADWAY AREAS.

HMA FOR MISCELLANEOUS WORK SHALL BE USED FOR ALL TEMPORARY CONSTRUCTION, TAPER RAMPS, CURB CUT RAMPS, TEMPORARY TRENCH REPAIR, ETC.

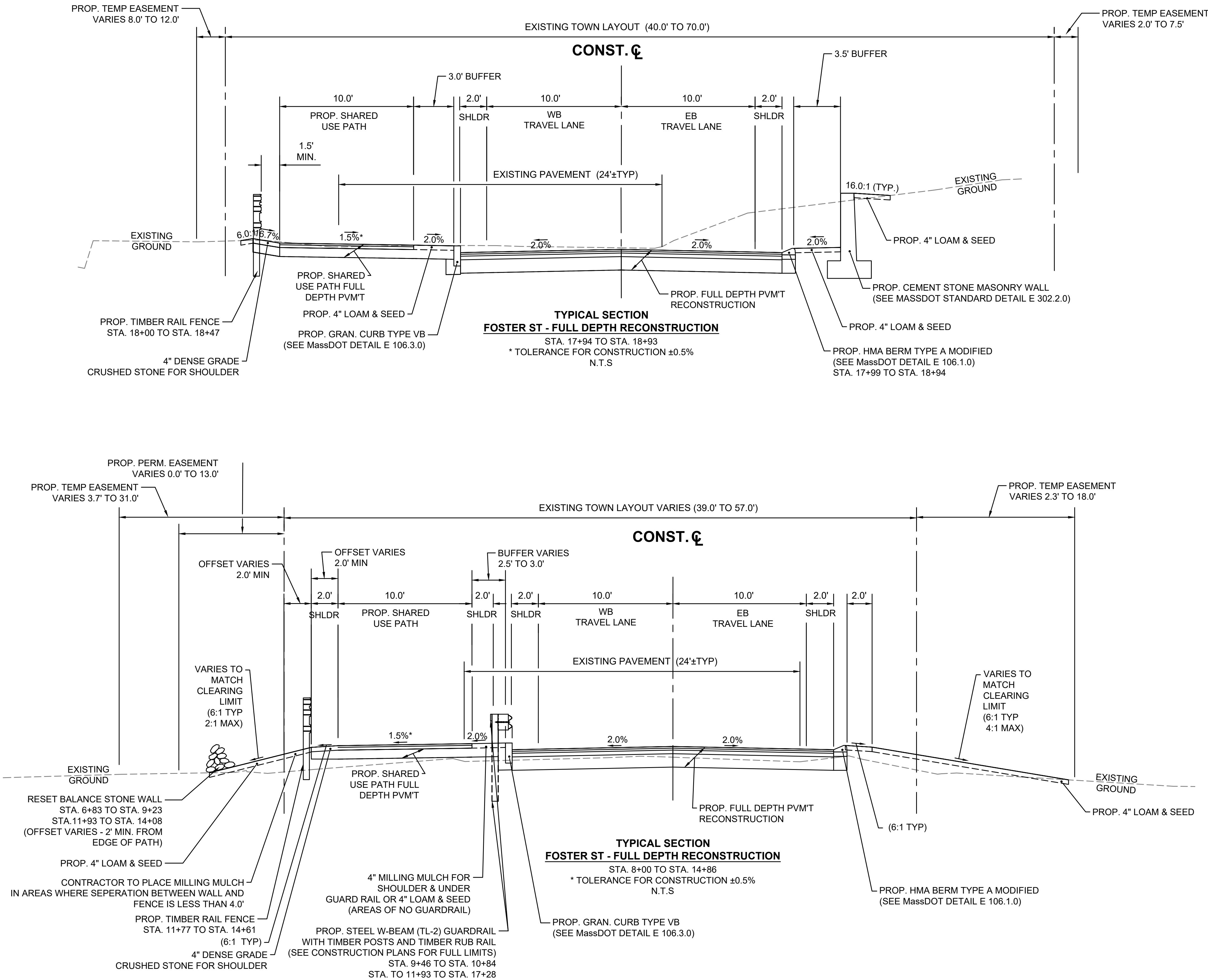




LITTLETON  
RECONSTRUCTION OF FOSTER STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	5	128
PROJECT FILE NO.		609054	

TYPICAL SECTIONS - FOSTER ST

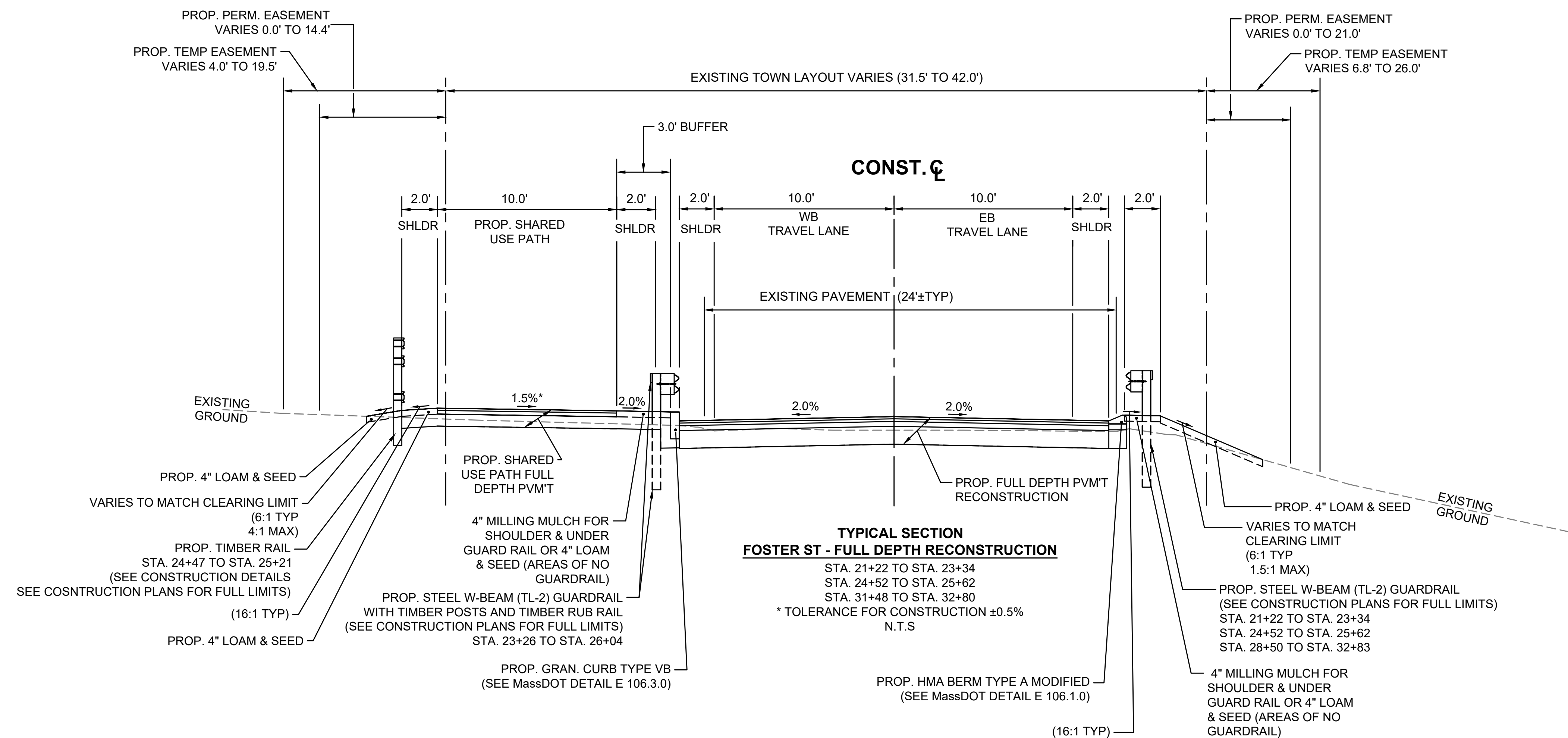
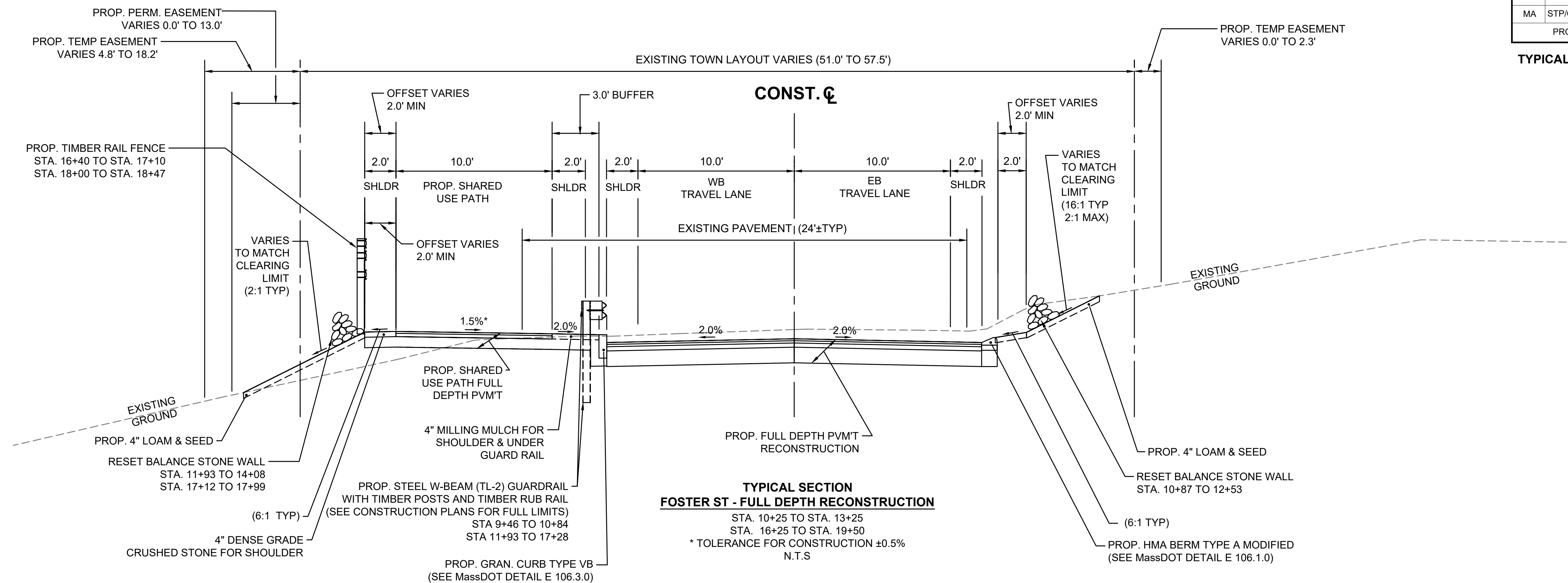




LITTLETON  
RECONSTRUCTION OF FOSTER STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	6	128
PROJECT FILE NO.		609054	

TYPICAL SECTIONS - FOSTER ST

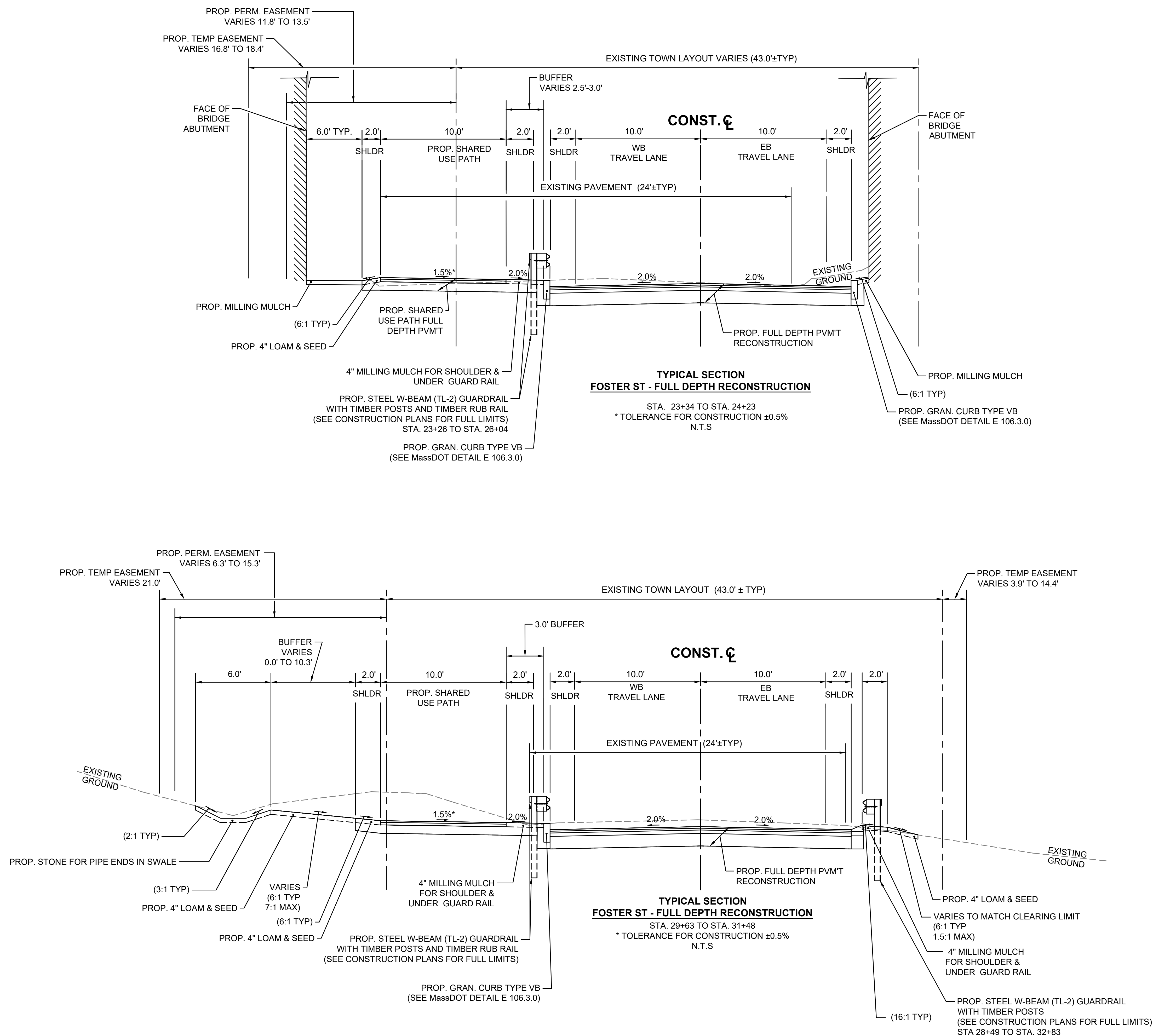




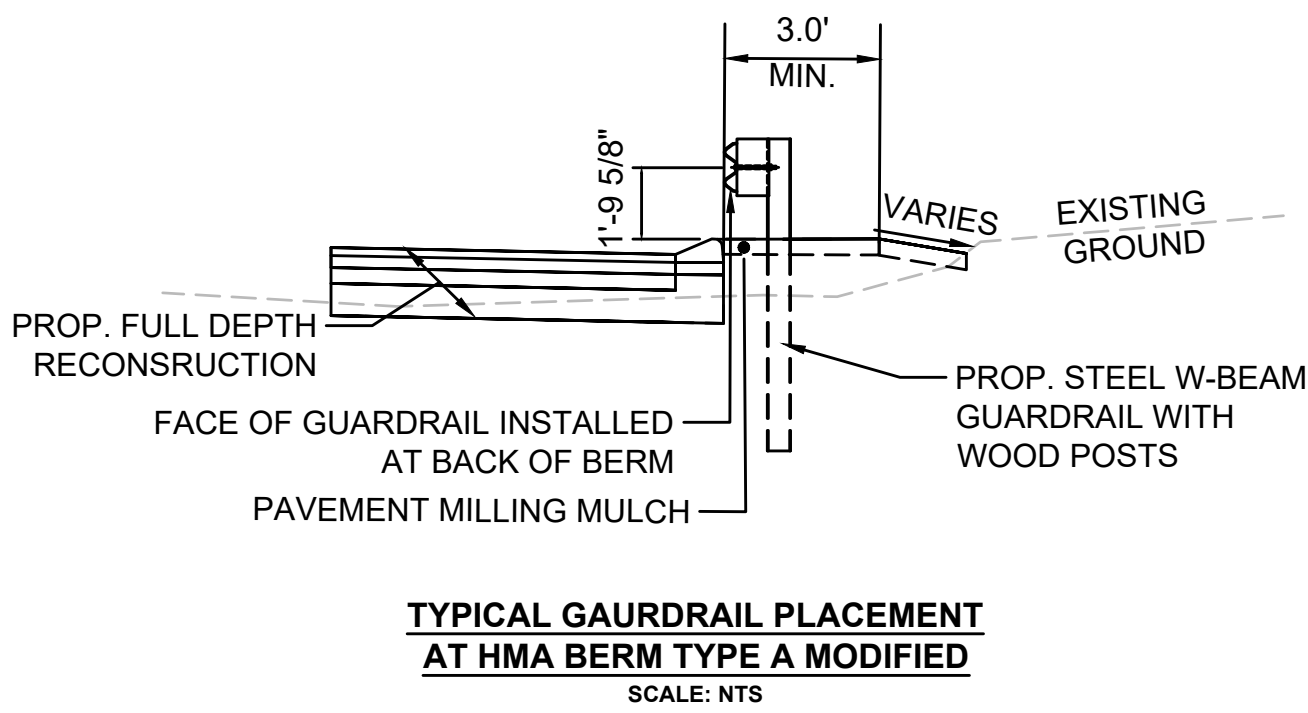
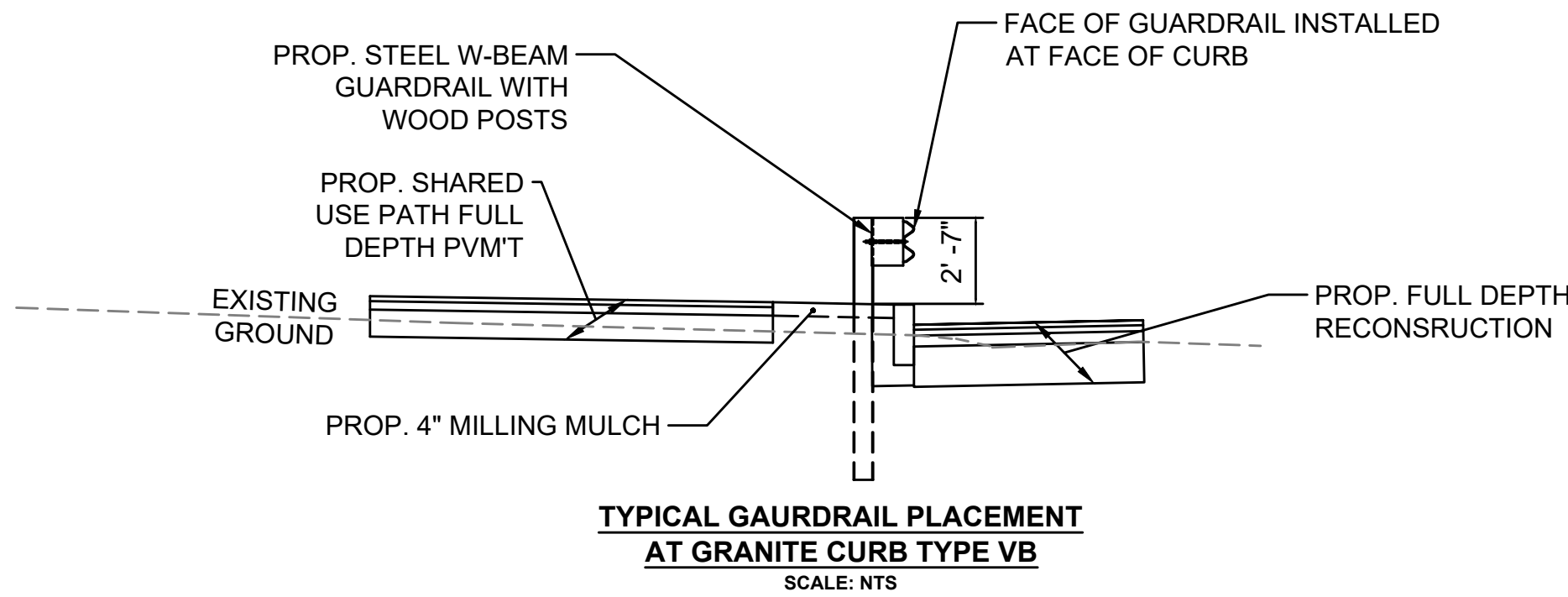
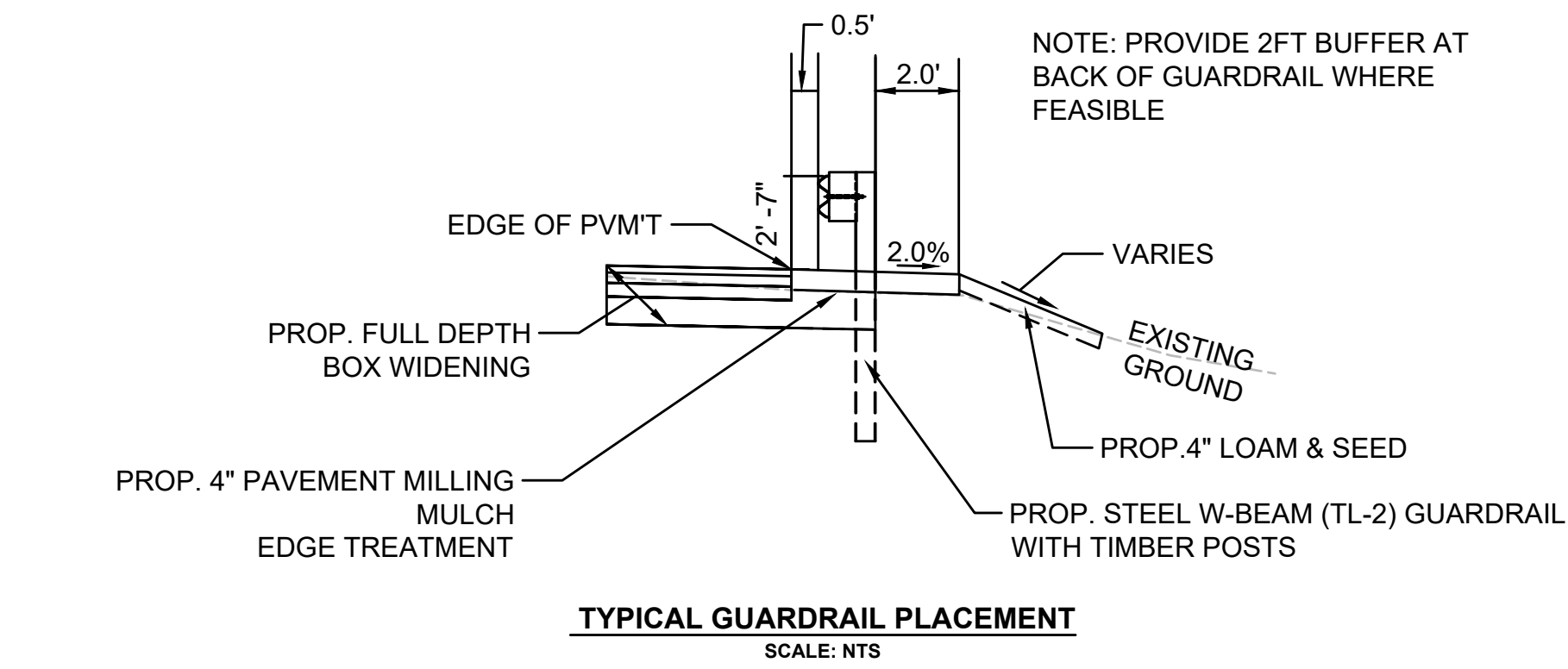
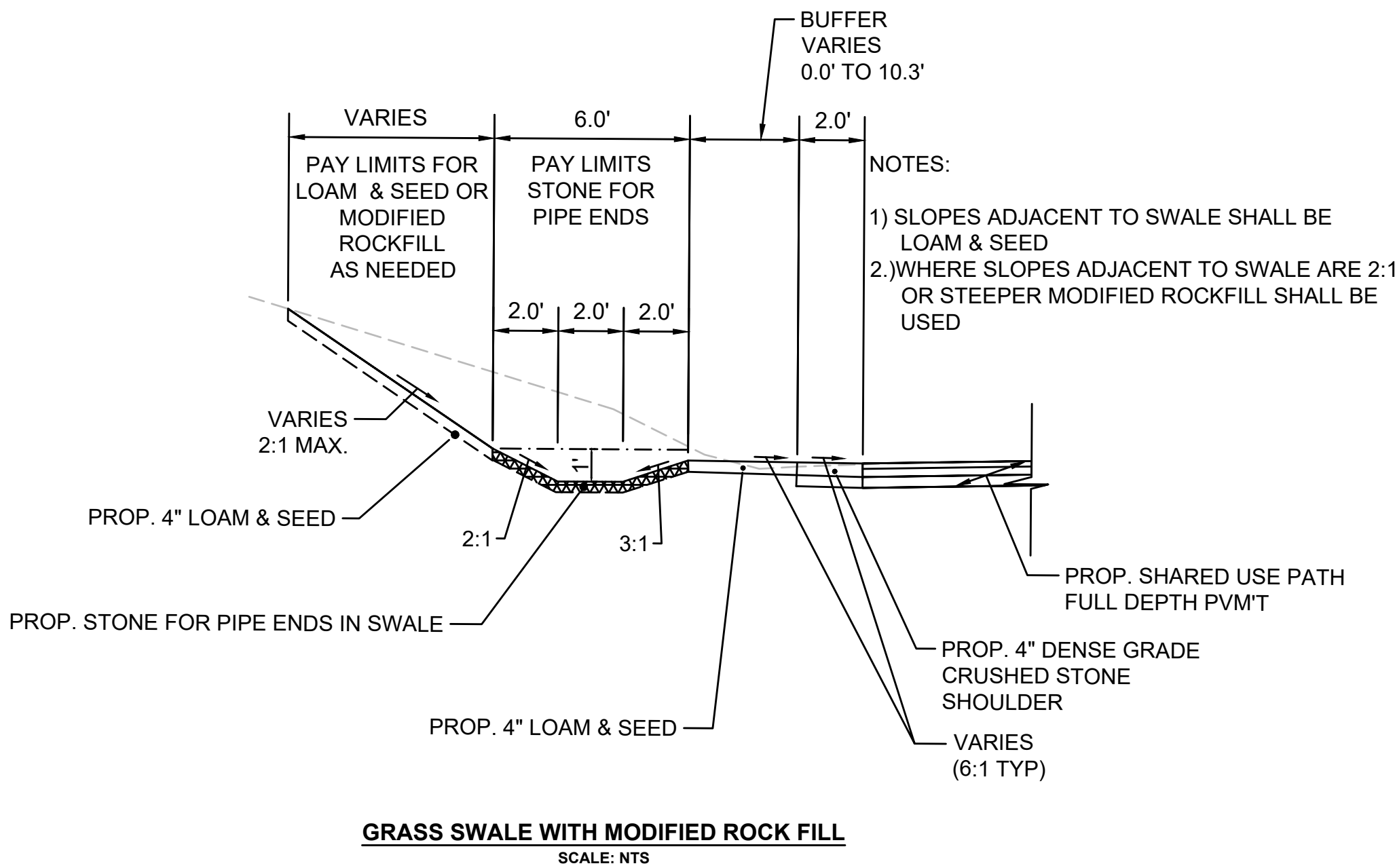
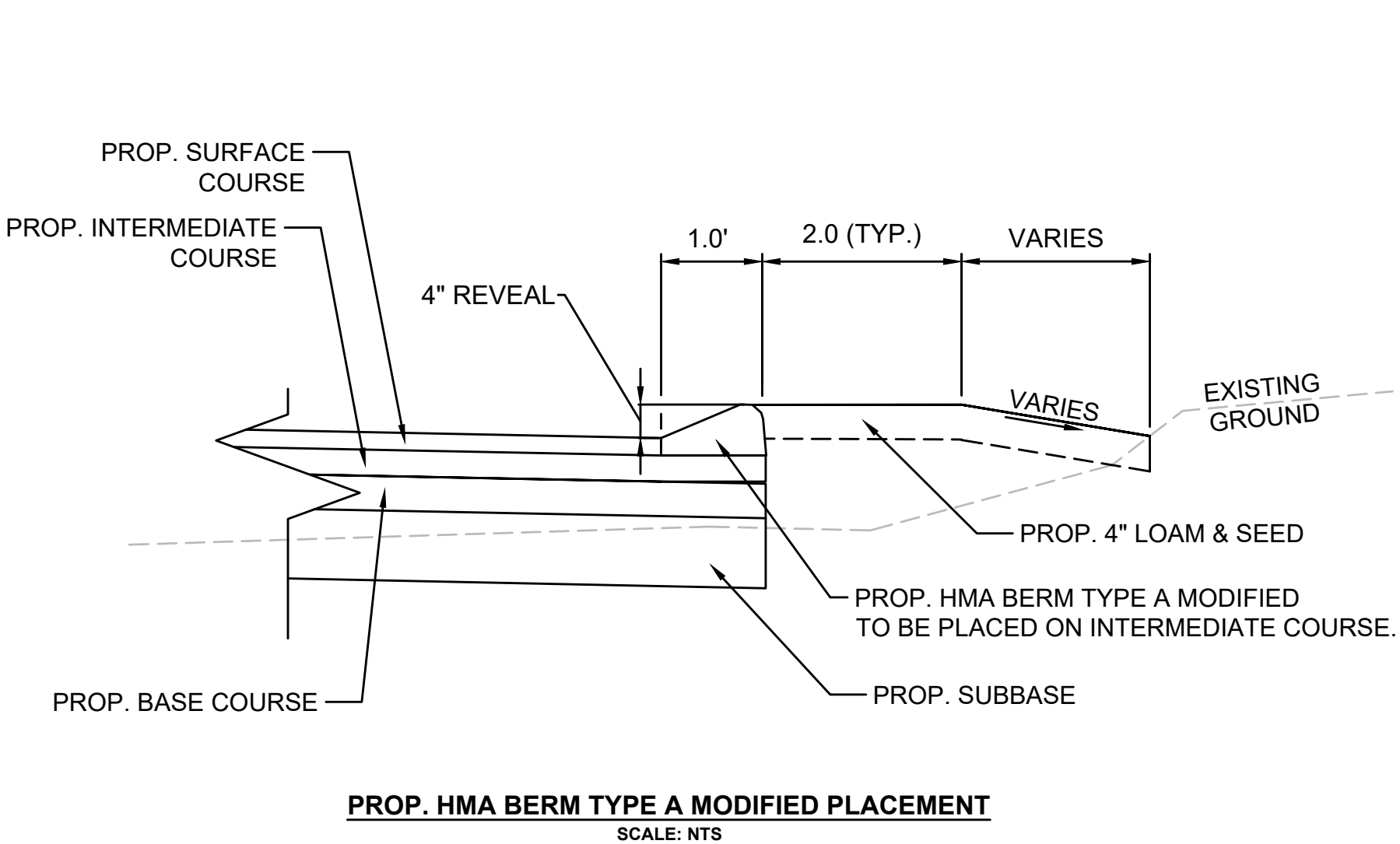
LITTLETON  
RECONSTRUCTION OF FOSTER STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	7	128
PROJECT FILE NO.		609054	

TYPICAL SECTIONS - FOSTER ST









NONE

NONE

SEE SHEET 57-64

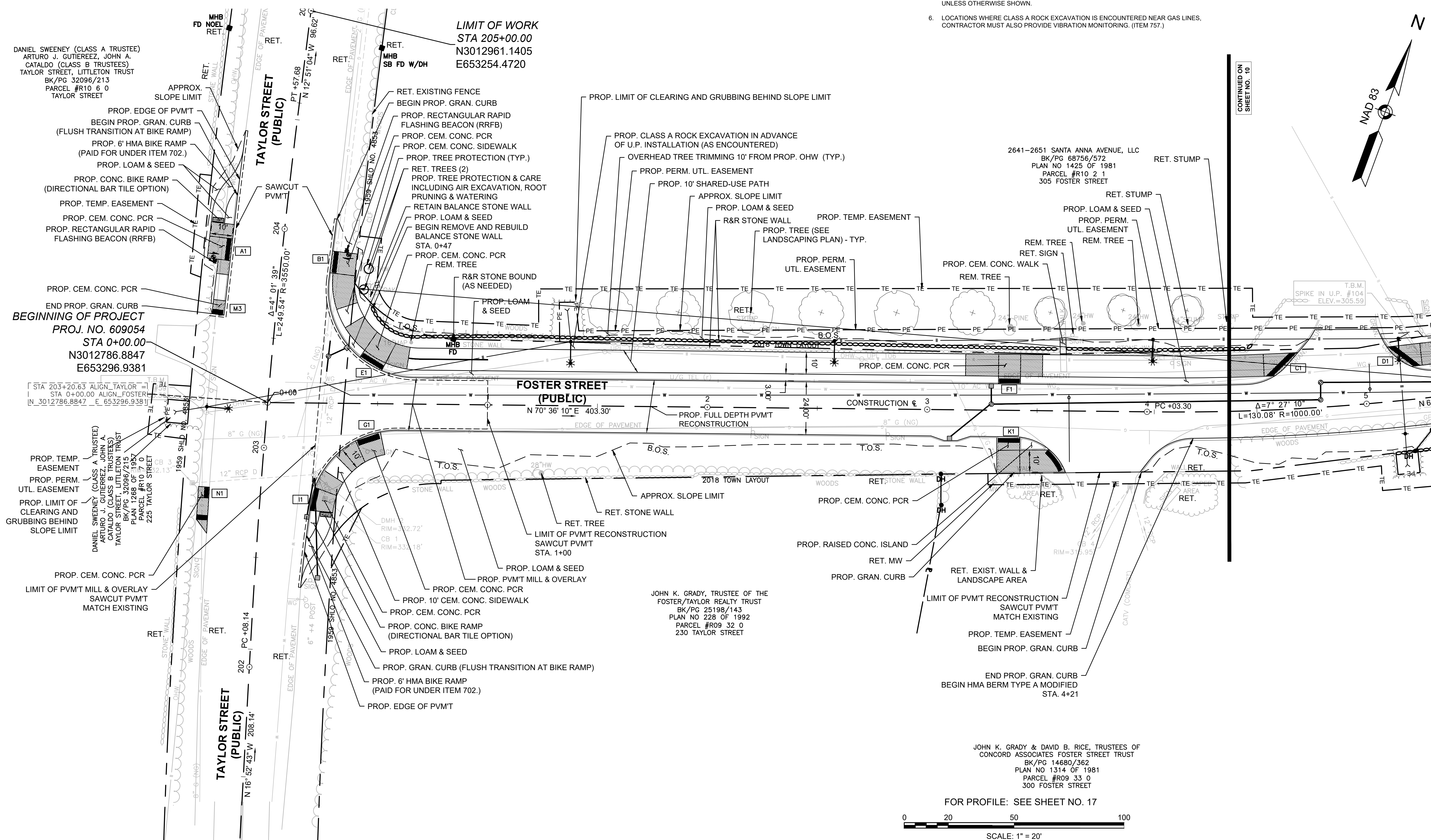
SEE SHEET NOS. 65-67

PROPOSED PEDESTRIAN CURB  
RAMP DETAIL #PROPOSED DRIVEWAY  
TYPE #

1. ALL EXISTING GRANITE CURB WITHIN PROJECT LIMITS SHALL BE REMOVED & DISCARDED UNLESS OTHERWISE NOTED ON THE PLAN.
2. FOR GUARDRAIL DETAILS REFER TO STANDARD DETAILS 400.1.2, 400.1.3, 400.1.4, 400.1.5, 400.1.6, AND 400.5.1
3. ALL PROPOSED GRANITE CURB SHALL BE TYPE VB.
4. PRIOR TO CONSTRUCTION ACTIVITIES, A SITE WALK SHALL BE CONDUCTED WITH CONTRACTOR, ENGINEER, AND LANDSCAPE ARCHITECT TO DETERMINE SELECTIVE CLEARING AND THINNING OF TREES.
5. ALL PROPOSED CLEARING AND GRUBBING IS SHOWN WITH THE PROPOSED SLOPE LINE UNLESS OTHERWISE SHOWN.
6. LOCATIONS WHERE CLASS A ROCK EXCAVATION IS ENCOUNTERED NEAR GAS LINES, CONTRACTOR MUST ALSO PROVIDE VIBRATION MONITORING. (ITEM 757.)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEET
MA	STP/CMQ/TAP-0033(037)X	9	128
PROJECT FILE NO.		609054	

## CONSTRUCTION PLANS





STEEL W-BEAM GUARDRAIL (TL-2) W/ WOOD POST & TANGENT END STA. 9+46 LT  
TO TANGENT END STA 10+84 LT

NONE

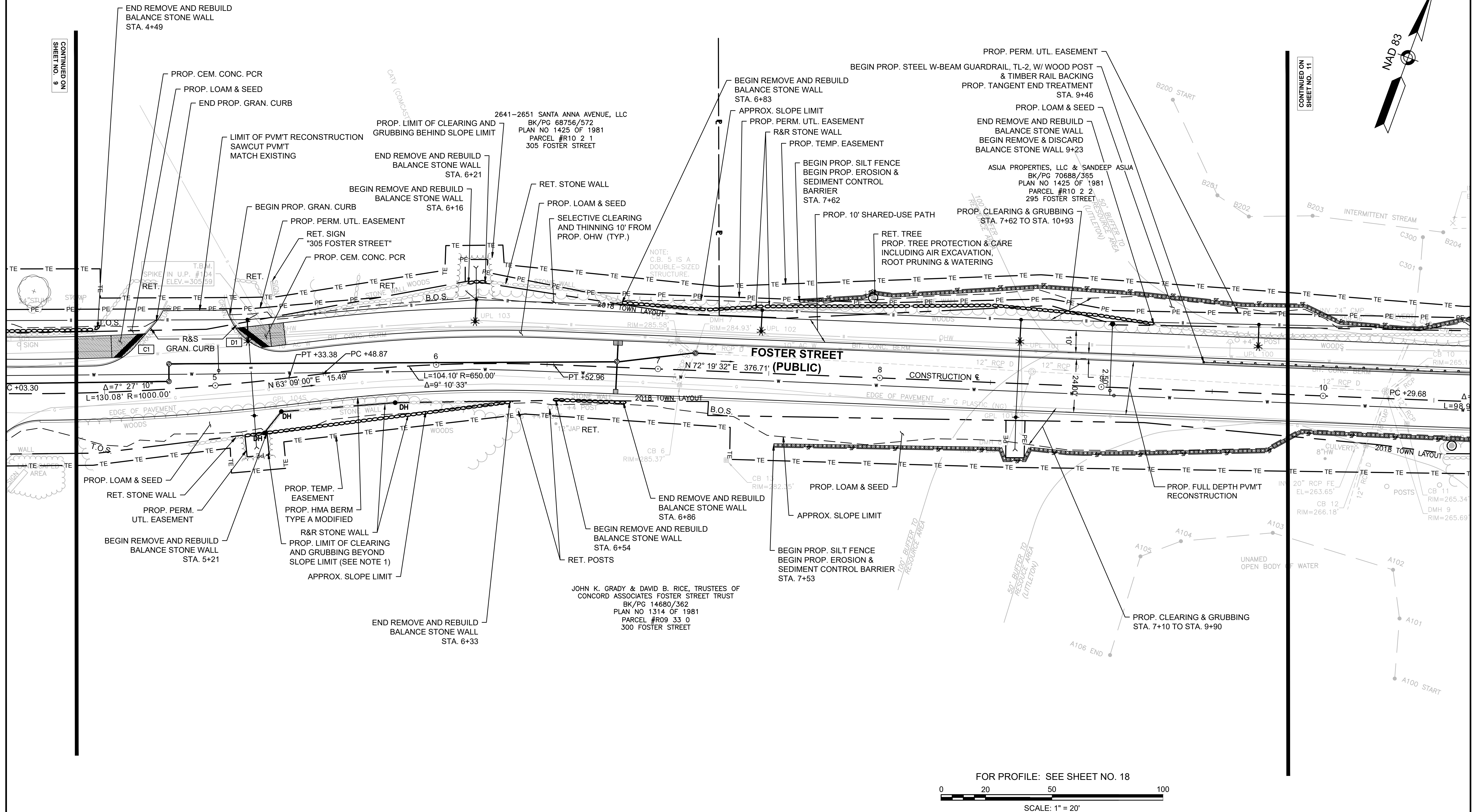
SEE SHEET 57-64

SEE SHEET NOS. 65-67

X#

DR#

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	10	128
PROJECT FILE NO.		609054	





HIGHWAY GUARD DETAILS

STEEL W-BEAM GUARDRAIL (TL-2) W/ WOOD POST & TANGENT END STA. 9+46 LT  
TO TANGENT END STA 10+84 LT

STEEL W-BEAM GUARDRAIL (TL-2) W/ WOOD POST & TANGENT END STA. 11+83 LT  
TO TANGENT END STA 17+28 LT

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

SEE SHEET 57-64

DRAINAGE DETAILS

SEE SHEET NOS. 65-67

LEGEND:

PROPOSED PEDESTRIAN CURB  
RAMP DETAIL #

X#

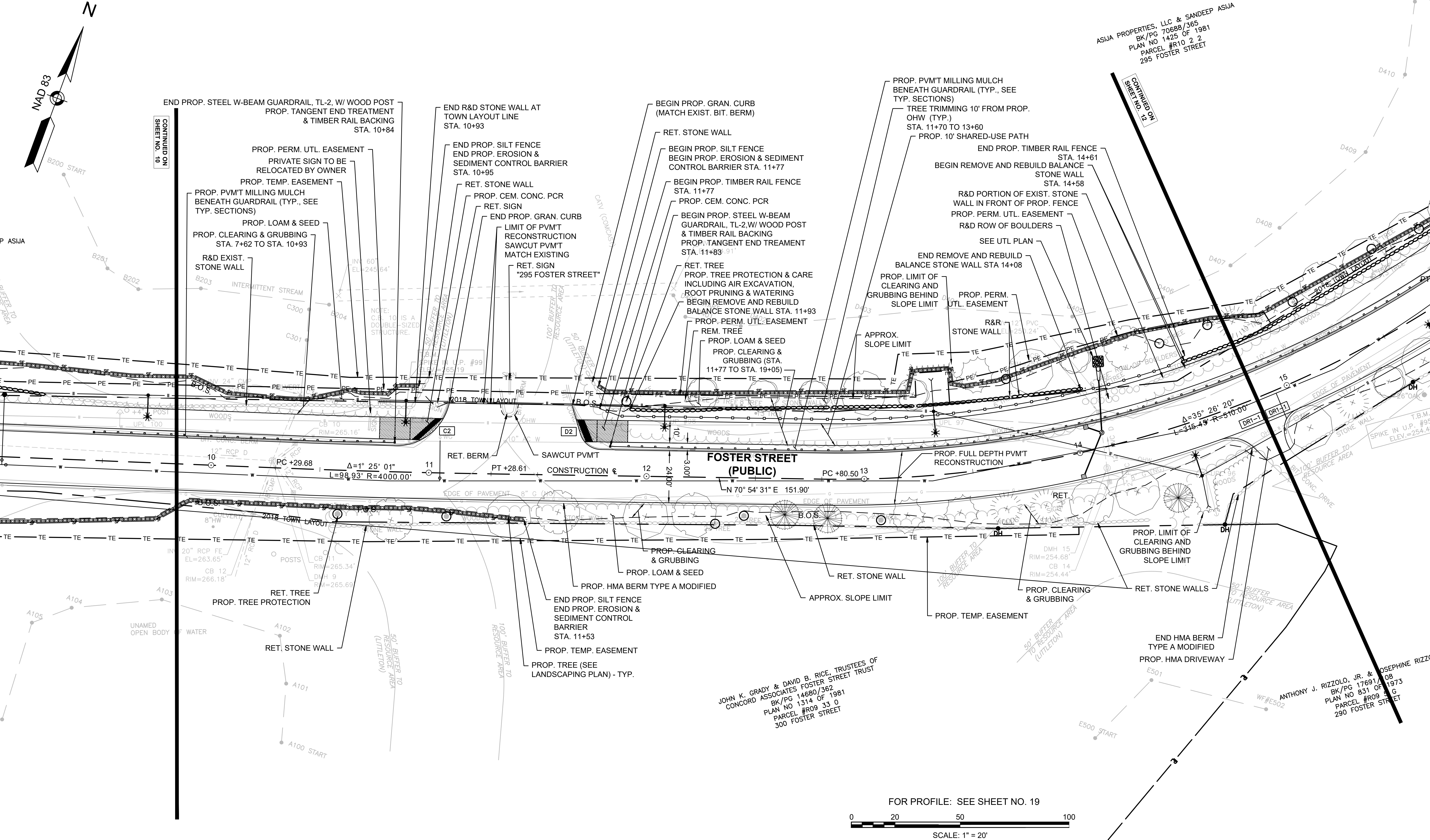
PROPOSED DRIVEWAY  
TYPE #

DR#

LITTLETON  
RECONSTRUCTION OF FOSTER STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	11	128
PROJECT FILE NO.		609054	

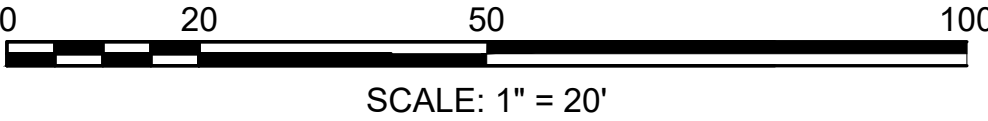
CONSTRUCTION PLANS



JOHN K. GRADY & DAVID B. RICE, TRUSTEES OF  
CONCORD ASSOCIATES FOSTER STREET TRUST  
BK/PG 14680/362  
PLAN NO 1314 OF 1981  
PARCEL #R09 33 0  
300 FOSTER STREET

ANTHONY J. RIZZOLO, JR. & JOSEPHINE RIZZOLO  
BK/PG 17691/108  
PLAN NO 831 OF 1973  
PARCEL #R09 33 0  
290 FOSTER STREET

FOR PROFILE: SEE SHEET NO. 19





HIGHWAY GUARD DETAILS

STEEL W-BEAM GUARDRAIL (TL-2) W/ WOOD POST & TANGENT END STA. 11+94  
TO TANGENT END STA 17+28

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

SEE SHEET 57-64

DRAINAGE DETAILS

SEE SHEET NOS. 65-67

LEGEND:

PROPOSED PEDESTRIAN CURB  
RAMP DETAIL #

X#

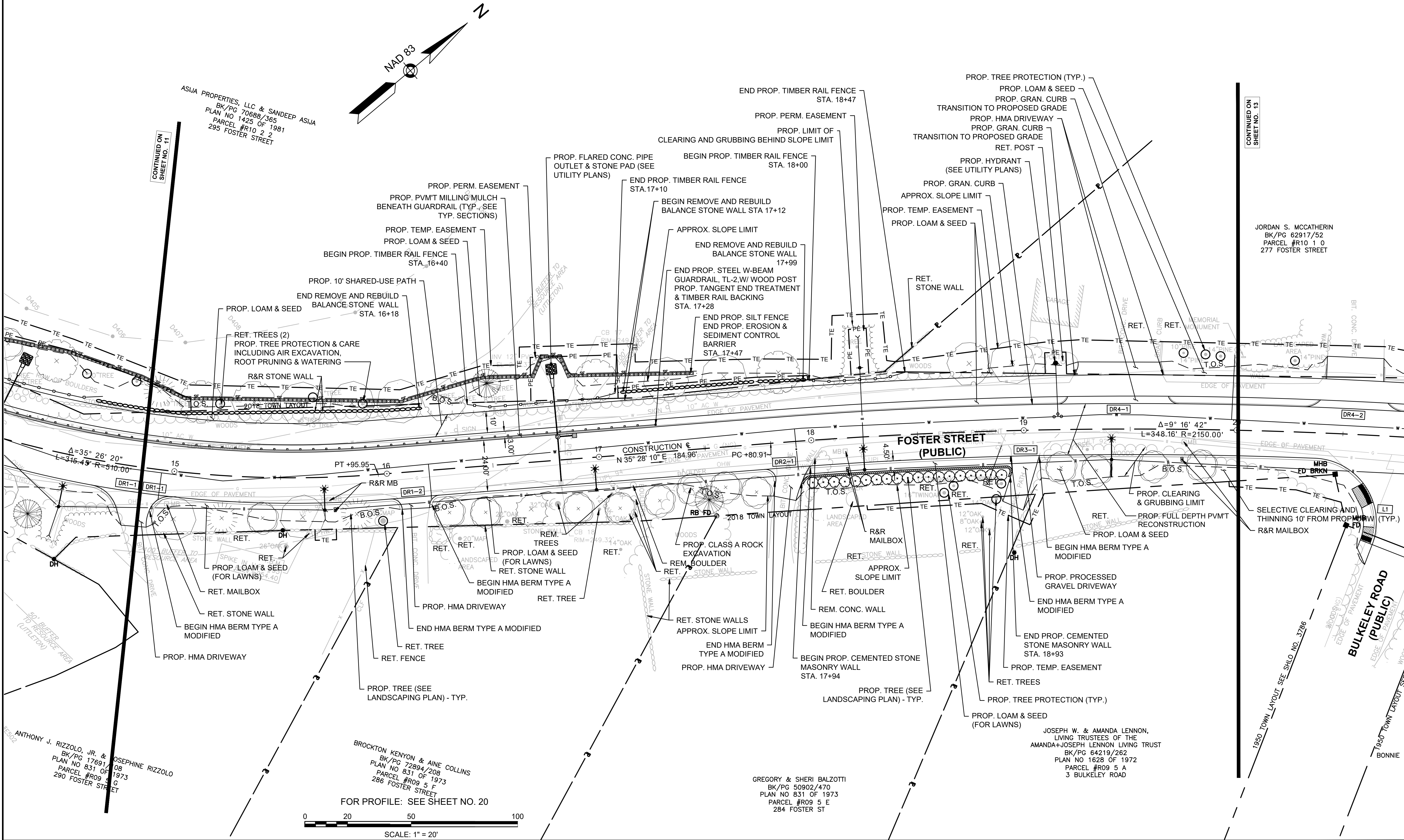
PROPOSED DRIVEWAY  
TYPE #

DR#

LITTLETON  
RECONSTRUCTION OF FOSTER STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	12	128
PROJECT FILE NO. 609054			

CONSTRUCTION PLANS





STEEL W-BEAM GUARDRAIL (TL-2) W/ WOOD POST & TANGENT END STA. 21+22 RT TO CONCRETE ABUTMENT  
STA 23+34 RT

STEEL W-BEAM GUARDRAIL (TL-2) W/ WOOD POST & TANGENT END STA. 24+52 RT TO TANGENT END STA 25+62 RT

SEE SHEET 57-64

NONE

SEE SHEET NOS. 65-67

PROPOSED PEDESTRIAN CURB  
RAMP DETAIL #PROPOSED DRIVEWAY  
TYPE #

X#

DR#

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	13	128
PROJECT FILE NO.		609054	

[illegible]



STEEL W-BEAM GUARDRAIL (TL-2) W/ WOOD POST & TANGENT END	STA. 23+26 LT TO TANGENT END STA 26+04 LT
STEEL W-BEAM GUARDRAIL (TL-2) W/ WOOD POST & TANGENT END	STA. 24+52 RT TO TANGENT END STA 25+62 RT
STEEL W-BEAM GUARDRAIL (TL-2) W/ WOOD POST & TANGENT END	STA. 28+49 RT TO FLARED END STA 32+83 RT
STEEL W-BEAM GUARDRAIL (TL-2) W/ WOOD POST & TANGENT END	STA. 301+41 LT TO TANGENT END STA 300+48 LT

SEE SHEET 57-64                      SEE SHEET NOS. 65-67

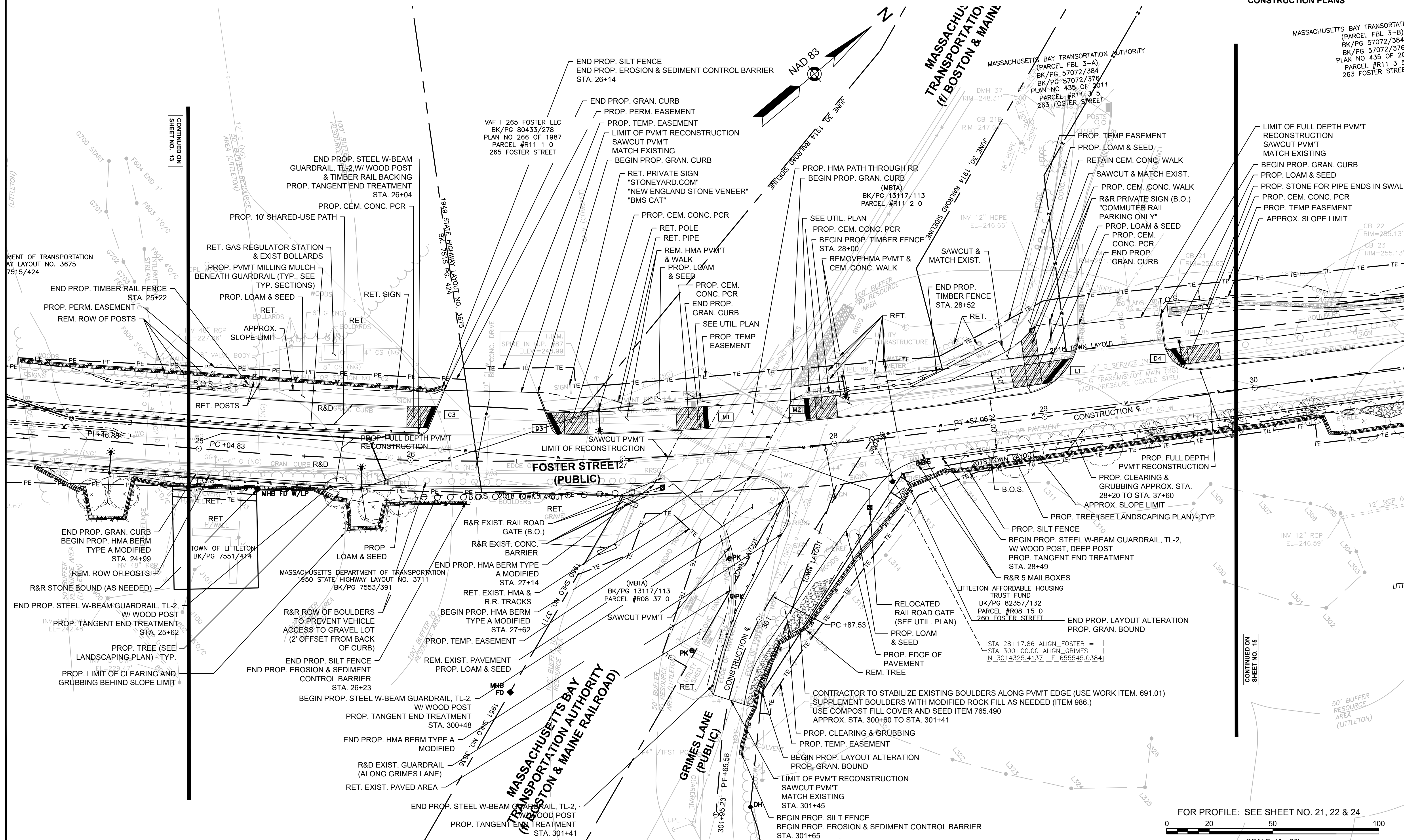
NONE

PROPOSED PEDESTRIAN CURB  
RAMP DETAIL #

DR#

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	14	128
PROJECT FILE NO.		609054	

MASSACHUSETTS BAY TRANSPORTATION  
(PARCEL FBL 3-B)  
BK/PG 57072/384  
BK/PG 57072/376  
PLAN NO 435 OF 20  
PARCEL #R11 3 5  
263 FOSTER STREET



FOR PROFILE: SEE SHEET NO. 21, 22 & 24

SCALE: 1" = 20'

20170004421 HPN01 AMENDED ORDER DWG Plotted on 29-Apr-2025 3:03 PM



HIGHWAY GUARD DETAILS

STEEL W-BEAM GUARDRAIL (TL-2) W/ WOOD POST & TANGENT END STA. 28+49 RT TO FLARED END STA 32+83 RT

WATER SUPPLY ALTERATIONS

SEE SHEET 57-64

TRAFFIC SIGNAL CONDUIT

NONE

DRAINAGE DETAILS

SEE SHEET NOS. 65-67

LEGEND:

PROPOSED PEDESTRIAN CURB  
RAMP DETAIL #

X#

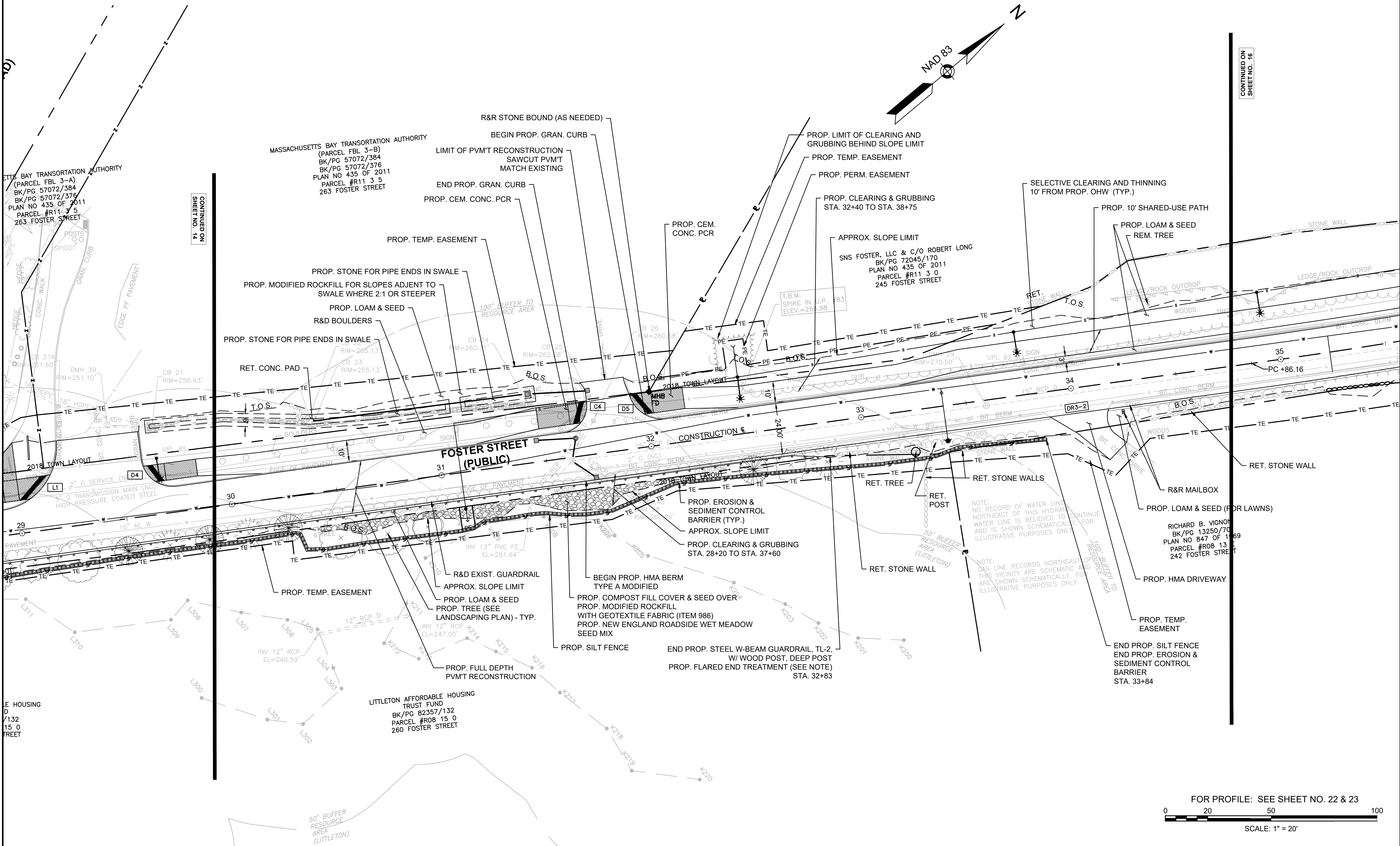
PROPOSED DRIVEWAY  
TYPE #

DR#

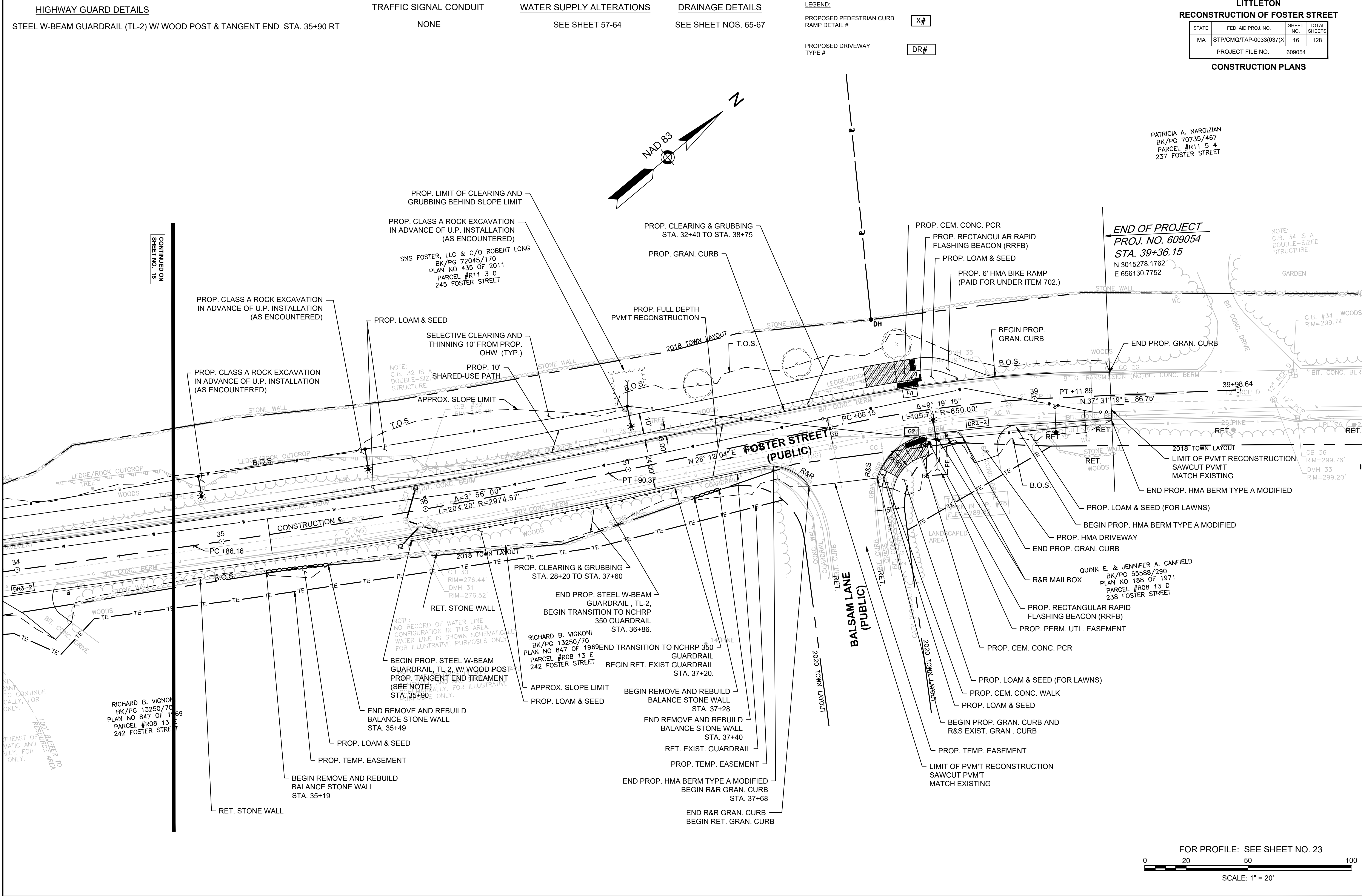
LITTLETON  
RECONSTRUCTION OF FOSTER STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	15	128
PROJECT FILE NO.		609054	

CONSTRUCTION PLANS







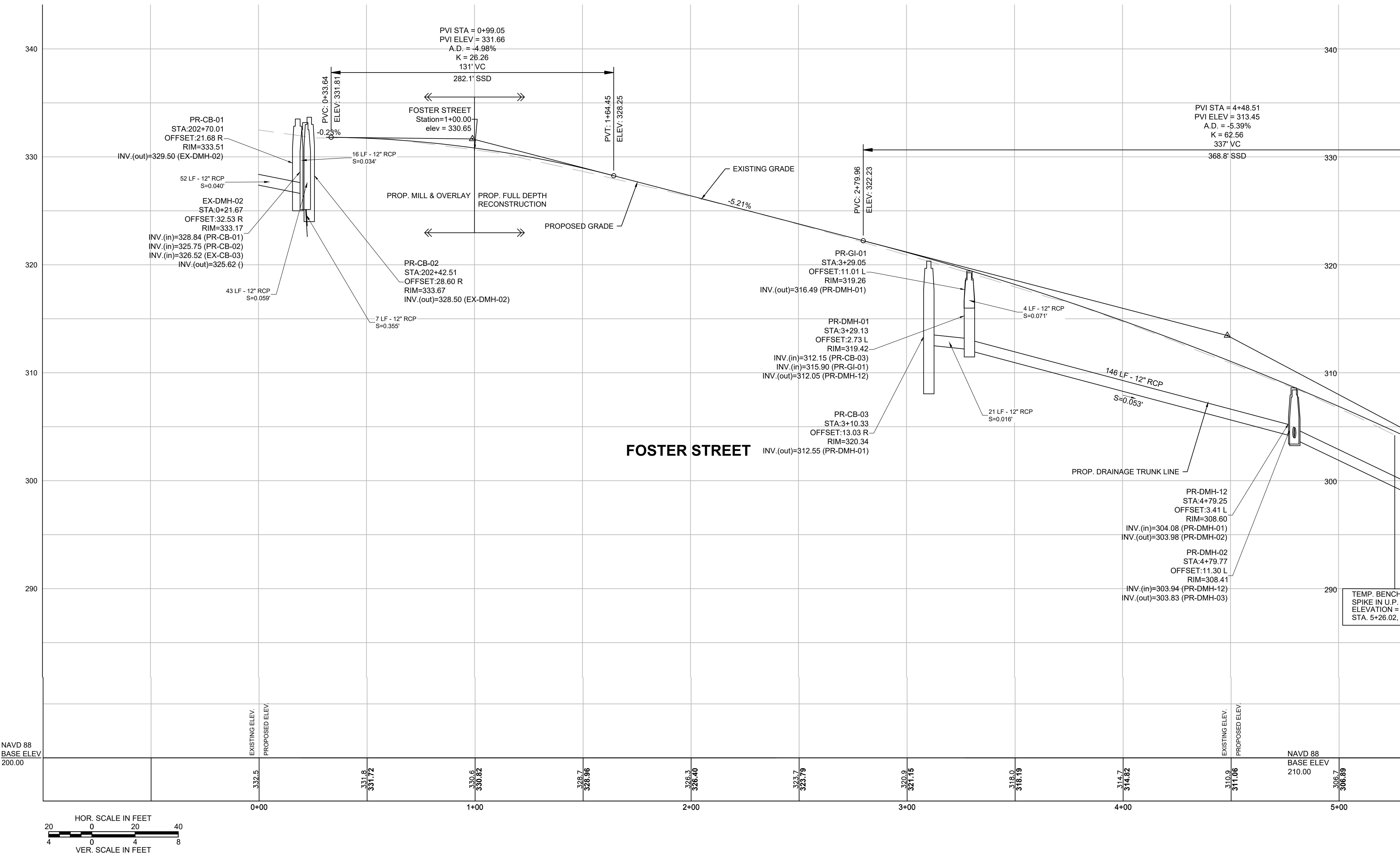


LITTLETON  
RECONSTRUCTION OF FOSTER STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	17	128
PROJECT FILE NO.		609054	

PROFILE - FOSTER STREET

FOR CONSTRUCTION PLANS:  
SEE SHEET NOS. 9-16

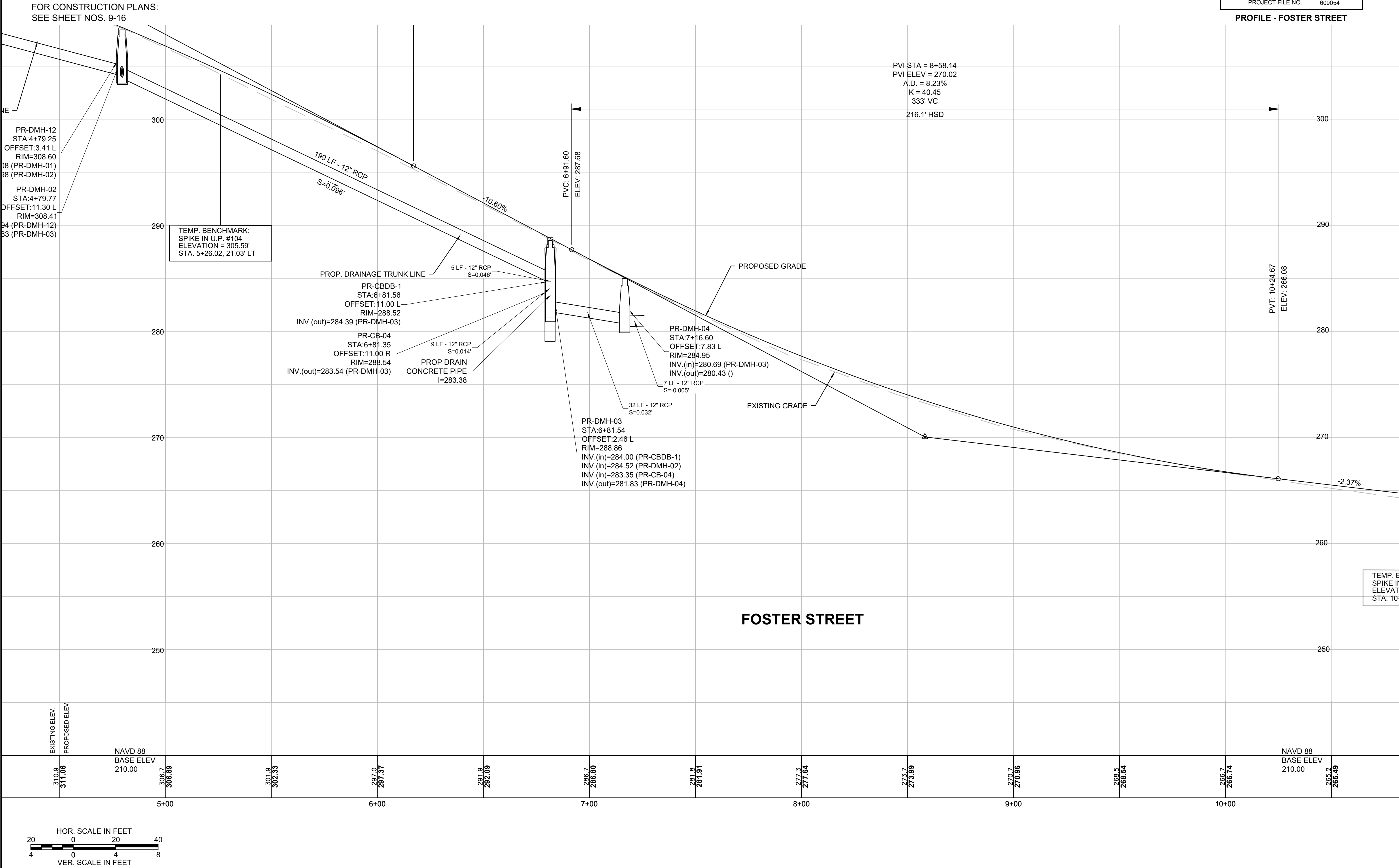




LITTLETON  
RECONSTRUCTION OF FOSTER STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	18	128
PROJECT FILE NO.		609054	

PROFILE - FOSTER STREET

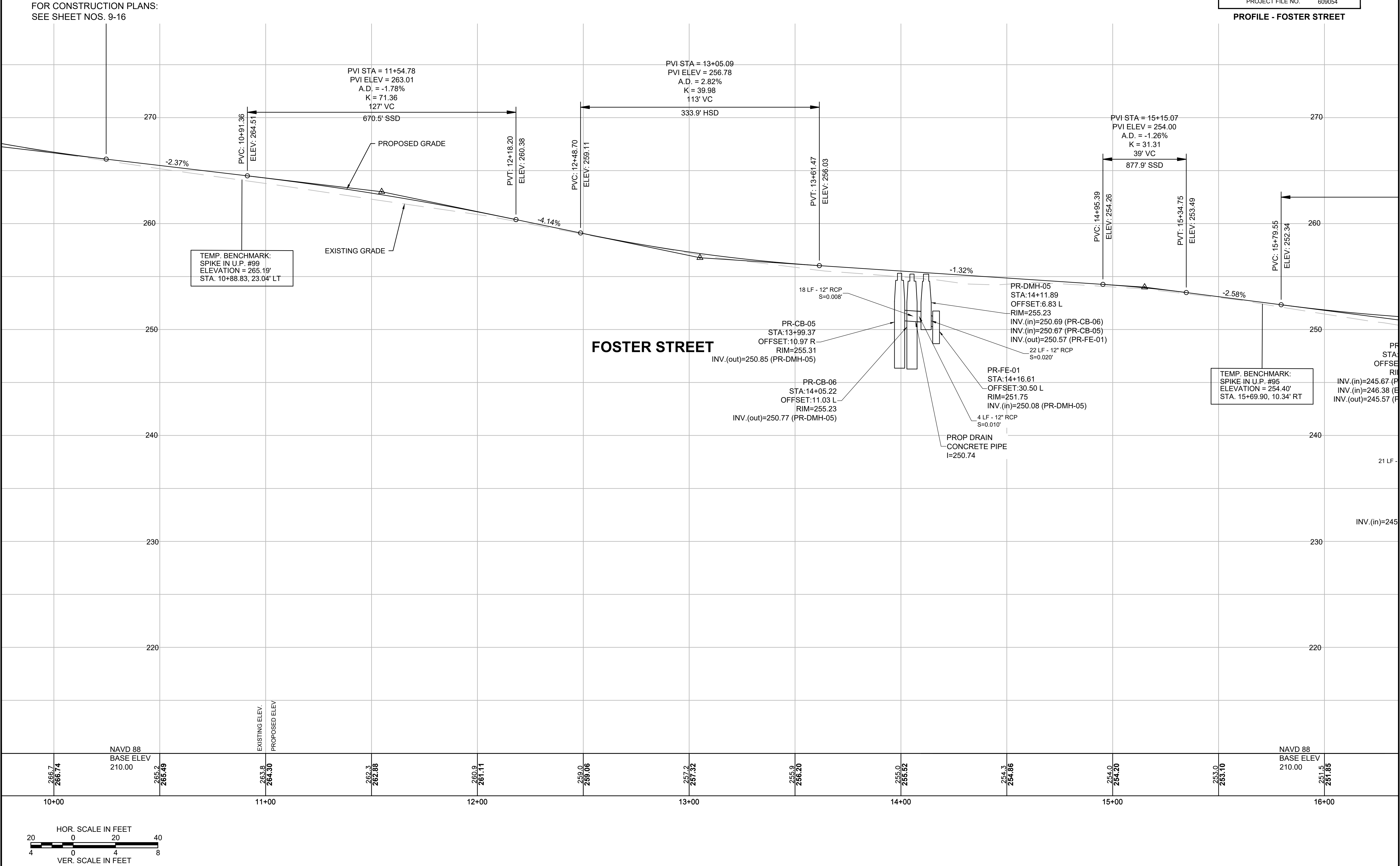




LITTLETON  
RECONSTRUCTION OF FOSTER STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	19	128
PROJECT FILE NO.		609054	

PROFILE - FOSTER STREET



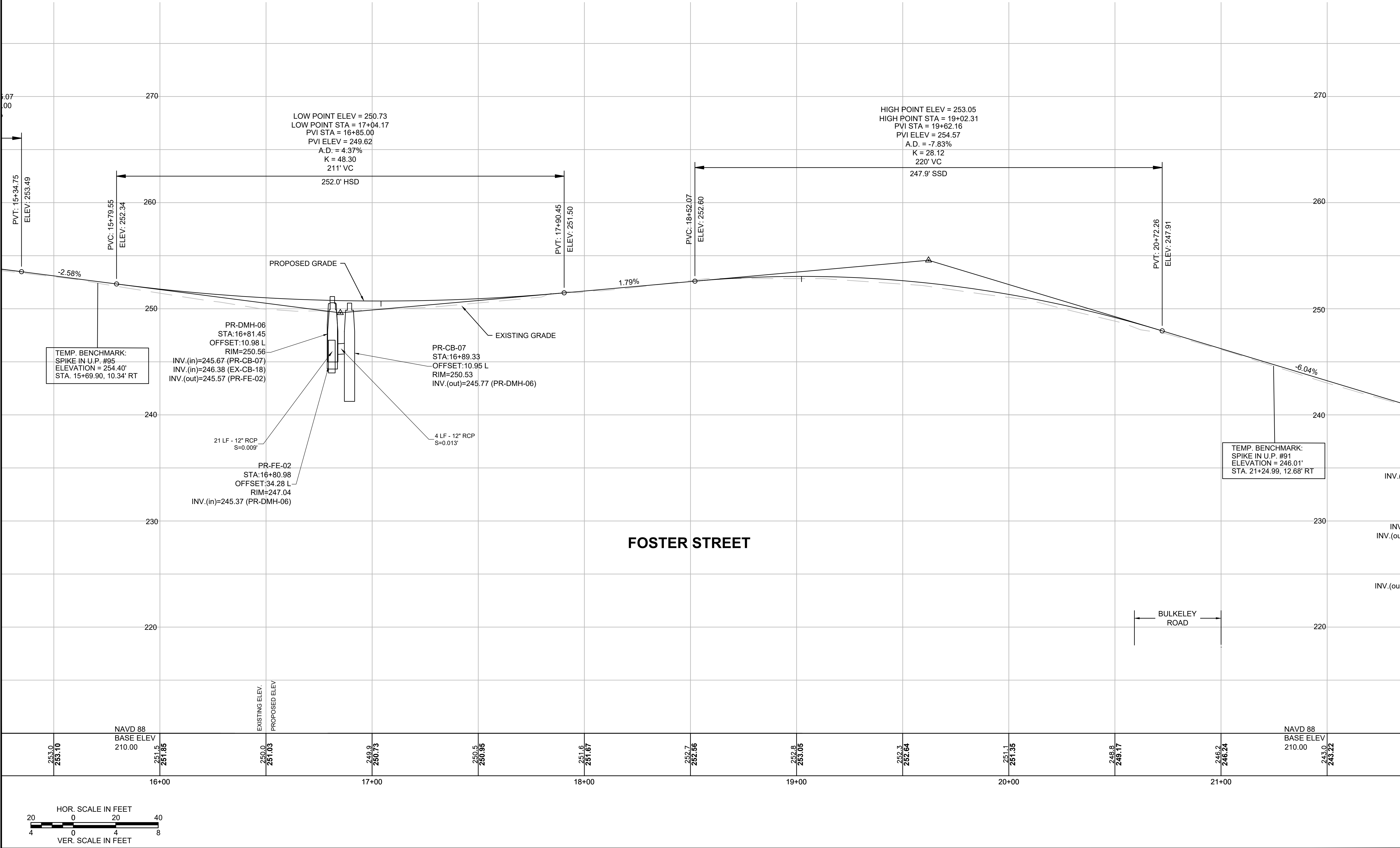


LITTLETON  
RECONSTRUCTION OF FOSTER STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	20	128
PROJECT FILE NO.		609054	

PROFILE - FOSTER STREET

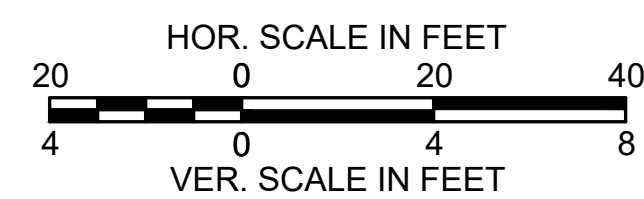
FOR CONSTRUCTION PLANS:  
SEE SHEET NOS. 9-16





STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	21	128
PROJECT FILE NO.		609054	

FOR CONSTRUCTION PLANS:  
SEE SHEET NOS. 9-16





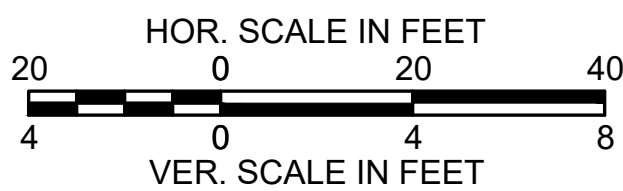
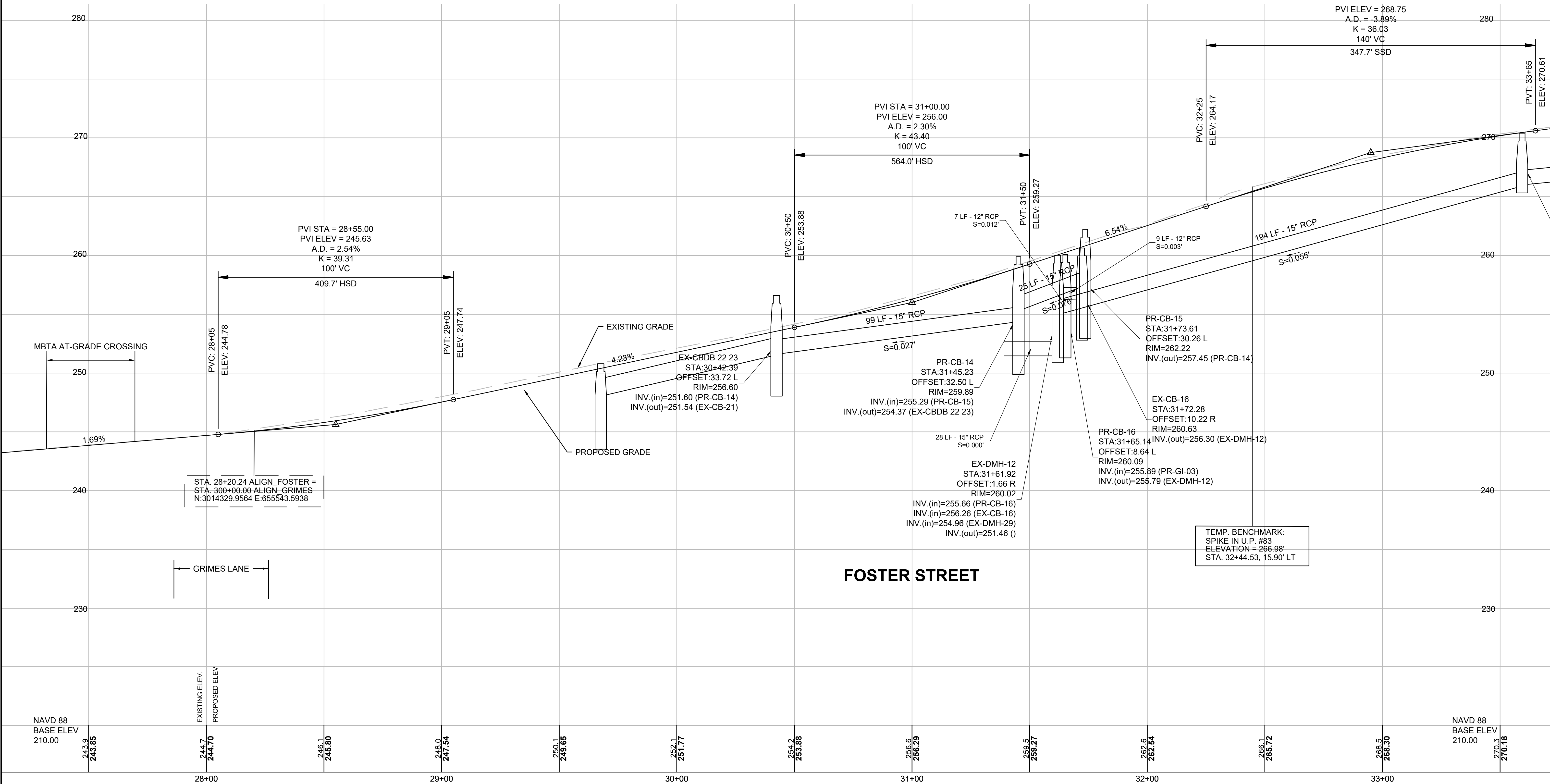
FOR CONSTRUCTION PLANS:  
SEE SHEET NOS. 9-16

LITTLETON  
RECONSTRUCTION OF FOSTER STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	22	128
PROJECT FILE NO. 609054			

PROFILE - FOSTER STREET

PVI ELEV = 268.75  
A.D. = -3.89%  
K = 36.03  
140' VC  
347.7' SSD



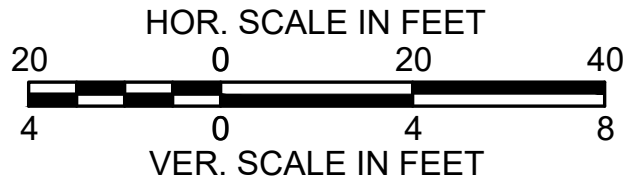
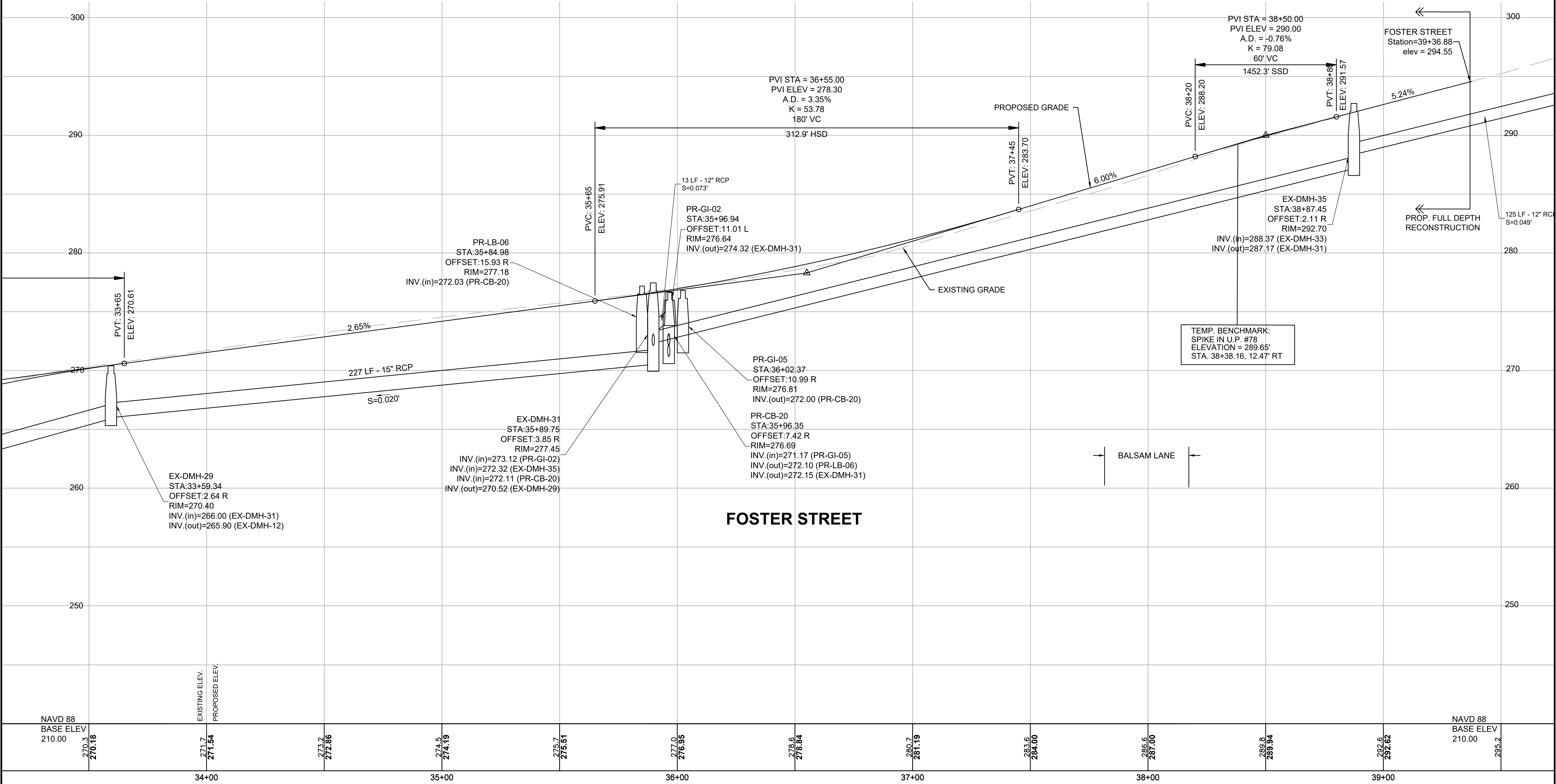


FOR CONSTRUCTION PLANS:  
SEE SHEET NOS. 9-16

LITTLETON  
RECONSTRUCTION OF FOSTER STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	23	128
PROJECT FILE NO.		609054	

PROFILE - FOSTER STREET



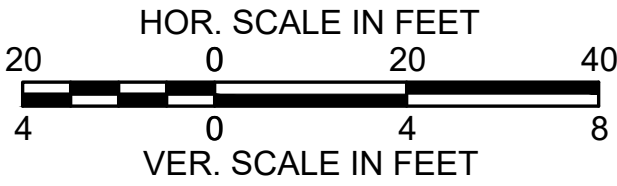
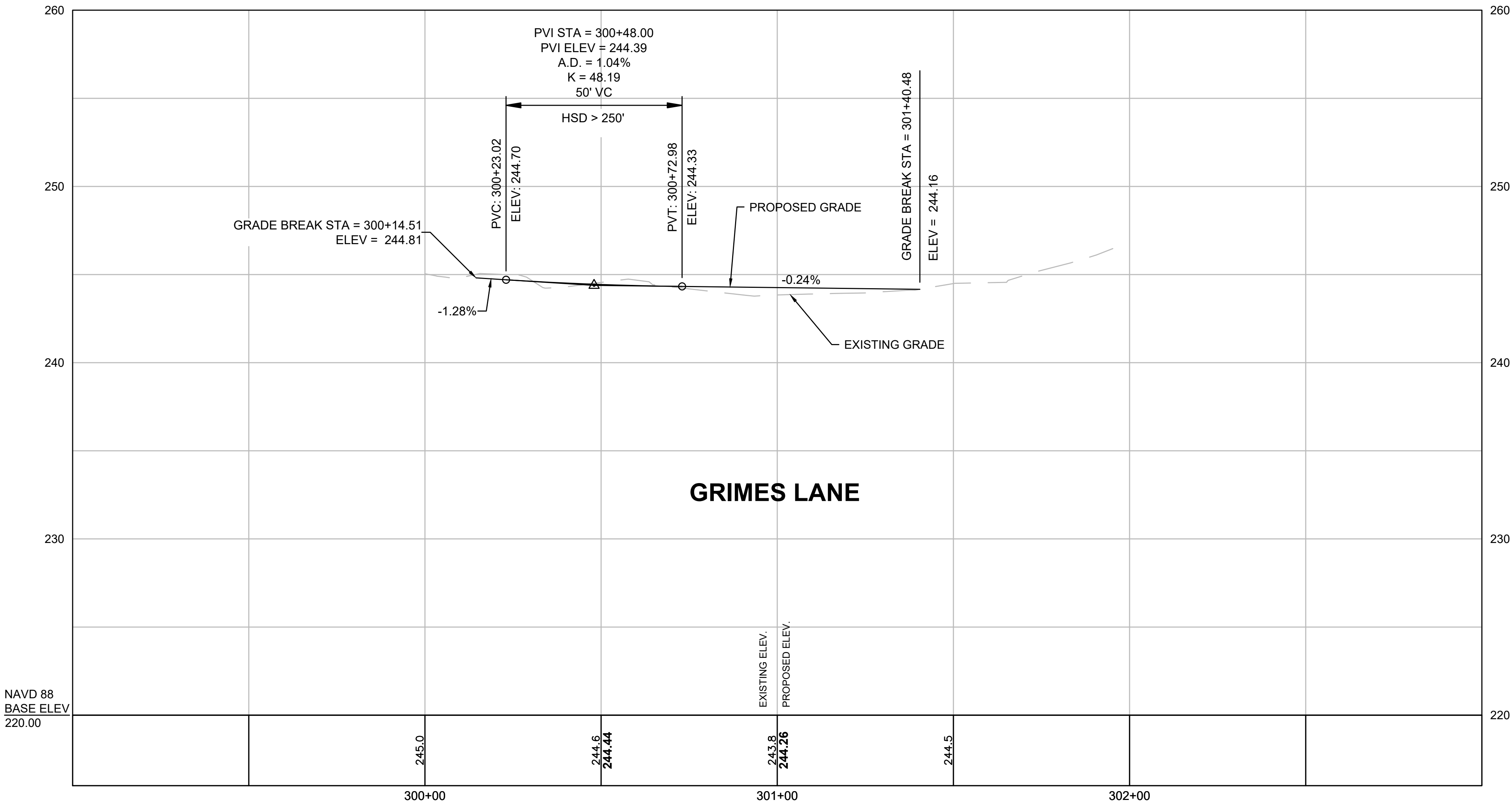


FOR CONSTRUCTION PLANS:  
SEE SHEET NOS. 9-16

LITTLETON  
RECONSTRUCTION OF FOSTER STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	24	128
PROJECT FILE NO.		609054	

PROFILE - GRIMES LANE





THIS PLAN IS BASED ON FIELD SURVEY CONDUCTED BY:  
SHERMAN & FRYDRYK, LLC.  
FIELD DATA WAS COLLECTED BETWEEN 8/14/18 & 9/17/18

HORIZONTAL CONTROL IS BASED ON VALUES PROVIDED BY MEANS OF GLOBAL POSITION SYSTEM METHODS, AND IS BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD-1983) MASSACHUSETTS STATE PLANE COORDINATE SYSTEM MAINLAND ZONE. OR PER SURVEY NOTE: HORIZONTAL DATUM IS BASED ON THE 1983 N.A.D. SYSTEM USING SURVEY GPS CONTROL POINTS SET BY THE CITY OF LITTLETON. ENGINEERING DEPARTMENT. GPS CONTROL STATION: CORS\_IS-HAMP, PID-DE9093

VERTICAL CONTROL IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988. (NAVD-1988), OR VERTICAL DATUM IS BASED ON THE 1988 N.G.V.D. SYSTEM USING SURVEY GPS CONTROL POINTS SET BY THE CITY OF LITTLETON. ENGINEERING DEPARTMENT, GPS CONTROL STATION: CORS\_ID-HAMP, PID-DE8093

LITTLETON  
RECONSTRUCTION OF FOSTER STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	33	128
PROJECT FILE NO.		609054	

GRADING PLAN

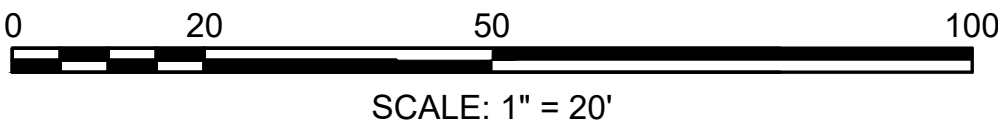
DANIEL SWEENEY (CLASS A TRUSTEE)  
ARTURO J. GUTIERREZ, JOHN A.  
CATALDO (CLASS B TRUSTEES)  
TAYLOR STREET, LITTLETON TRUST  
BK/PG 32096/213  
PARCEL #R10 6 0  
TAYLOR STREET

DANIEL SWEENEY (CLASS A TRUSTEE)  
ARTURO J. GUTIERREZ, JOHN A.  
CATALDO (CLASS B TRUSTEES)  
TAYLOR STREET, LITTLETON TRUST  
BK/PG 32096/215  
PLAN 1268 OF 1957  
PARCEL #R10 7 0  
225 TAYLOR STREET

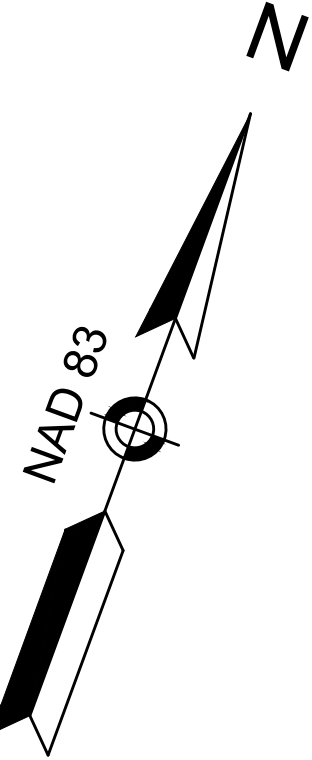
2641-2651 SANTA ANNA AVENUE, LLC  
BK/PG 68756/572  
PLAN NO 1425 OF 1981  
PARCEL #R10 2 1  
305 FOSTER STREET

JOHN K. GRADY, TRUSTEE OF THE  
FOSTER/TAYLOR REALTY TRUST  
BK/PG 25198/143  
PLAN NO 228 OF 1992  
PARCEL #R09 32 0  
230 TAYLOR STREET

JOHN K. GRADY & DAVID B. RICE, TRUSTEES OF  
CONCORD ASSOCIATES FOSTER STREET TRUST  
BK/PG 14680/362  
PLAN NO 1314 OF 1981  
PARCEL #R09 33 0  
300 FOSTER STREET



CONTINUED ON  
SHEET NO. 34









LITTLETON  
RECONSTRUCTION OF FOSTER STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	35	128
PROJECT FILE NO. 609054			

GRADING PLAN





BW = FINISHED GRADE AT BOTTOM OF WALL  
TW = FINISHED GRADE AT TOP OF WALL  
SEE CONSTRUCTION DETAILS FOR WALL SPECIFICATIONS

LITTLETON  
RECONSTRUCTION OF FOSTER STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	36	128
PROJECT FILE NO.		609054	

GRADING PLAN

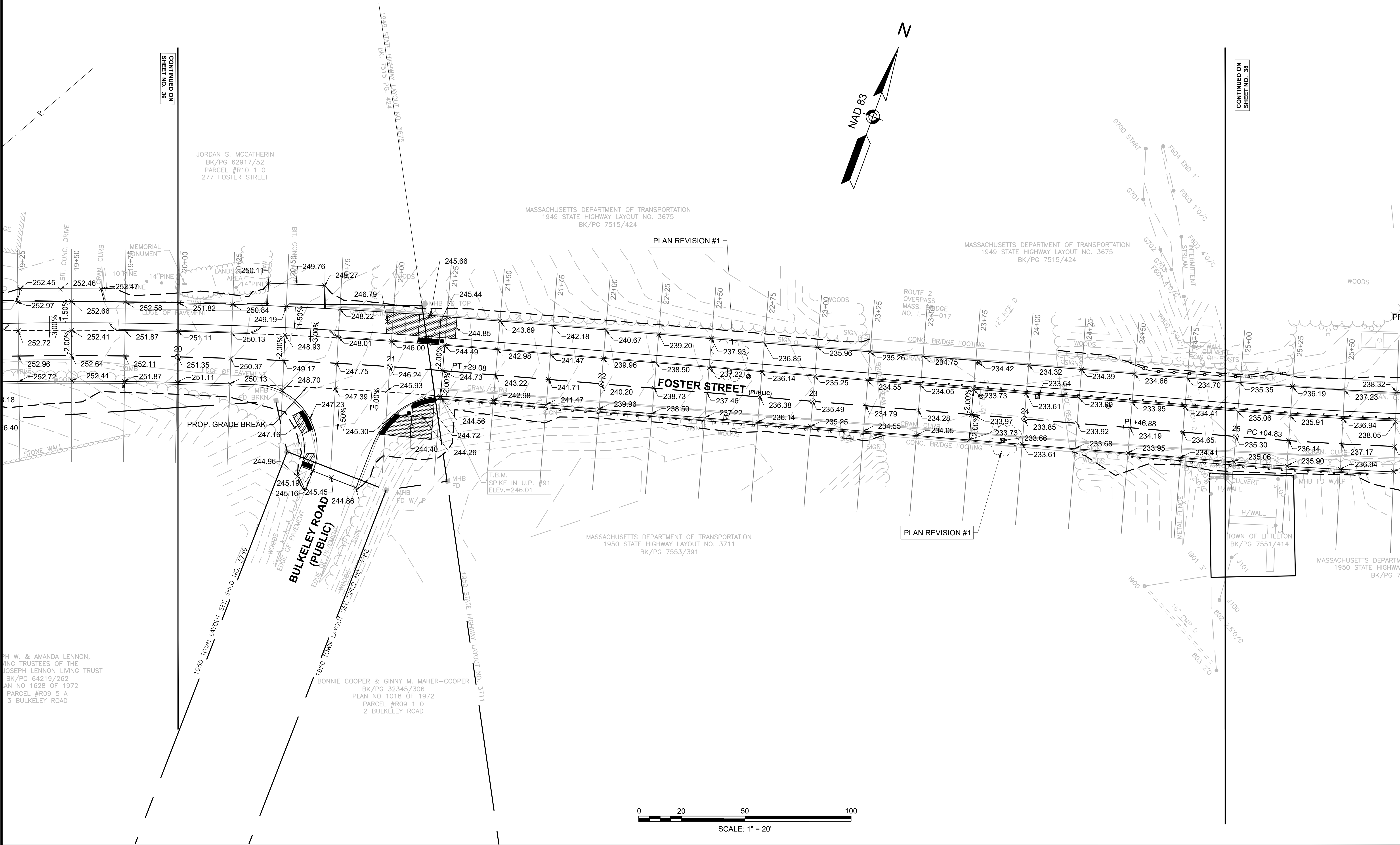




LITTLETON  
RECONSTRUCTION OF FOSTER STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	37	128
PROJECT FILE NO.		609054	

GRADING PLAN



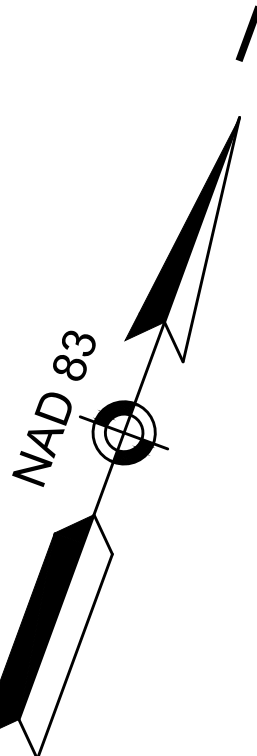


LITTLETON  
RECONSTRUCTION OF FOSTER STREET

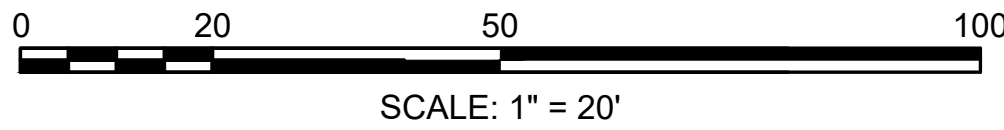
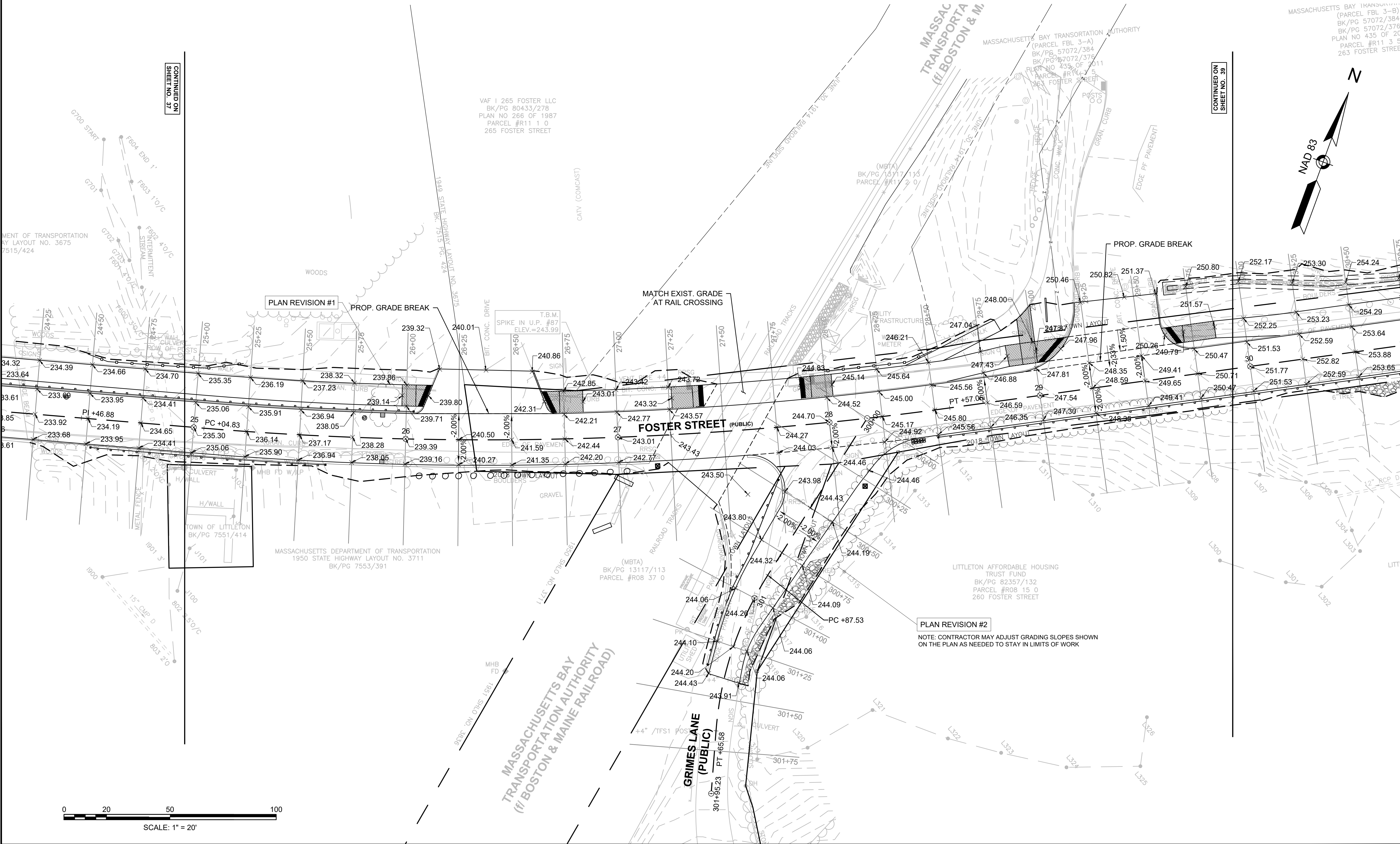
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	38	128
PROJECT FILE NO.		609054	

GRADING PLAN

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY  
(PARCEL FBL 3-B)  
BK/PG 57072/384  
BK/PG 57072/376  
PLAN NO. 435 OF 2011  
PARCEL #R11 3 5  
263 FOSTER STREET



20170044421\_GRA01.DWG Plotted on 21-Mar-2025 9:18 AM

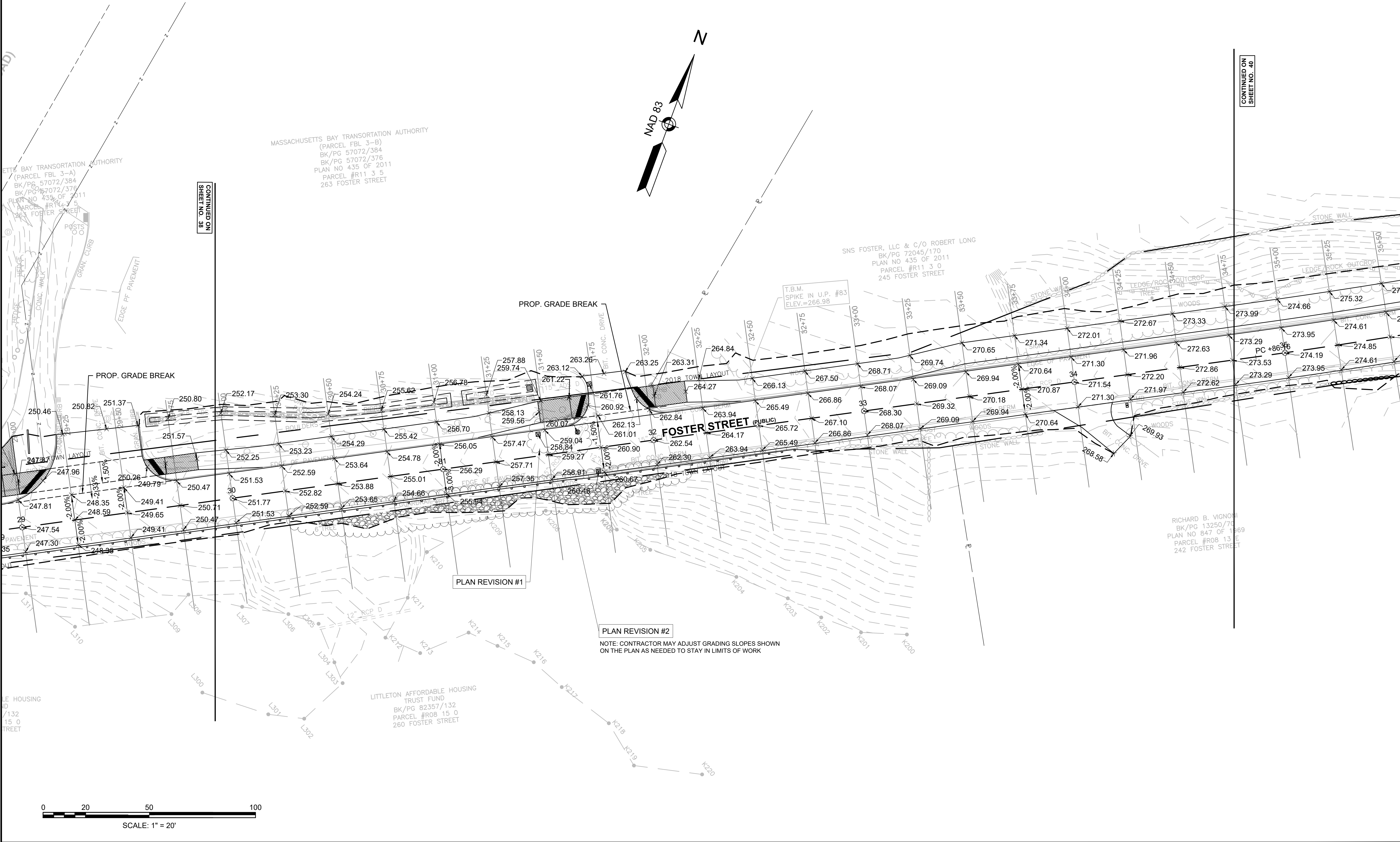




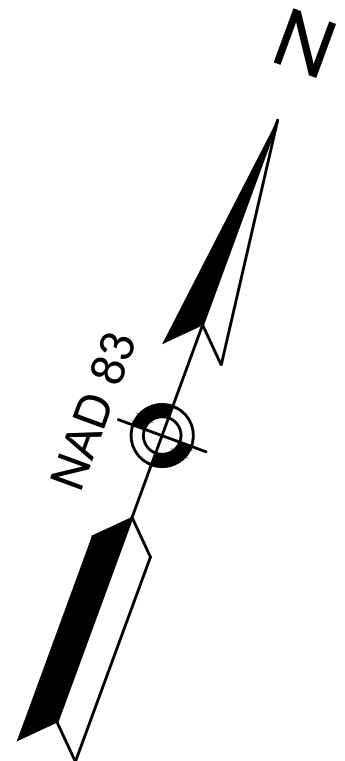
LITTLETON  
RECONSTRUCTION OF FOSTER STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	39	128
PROJECT FILE NO.		609054	

GRADING PLAN







PATRICIA A. NARGIZIAN  
BK/PG 70735/467  
PARCEL #R11 5 4  
237 FOSTER STREET

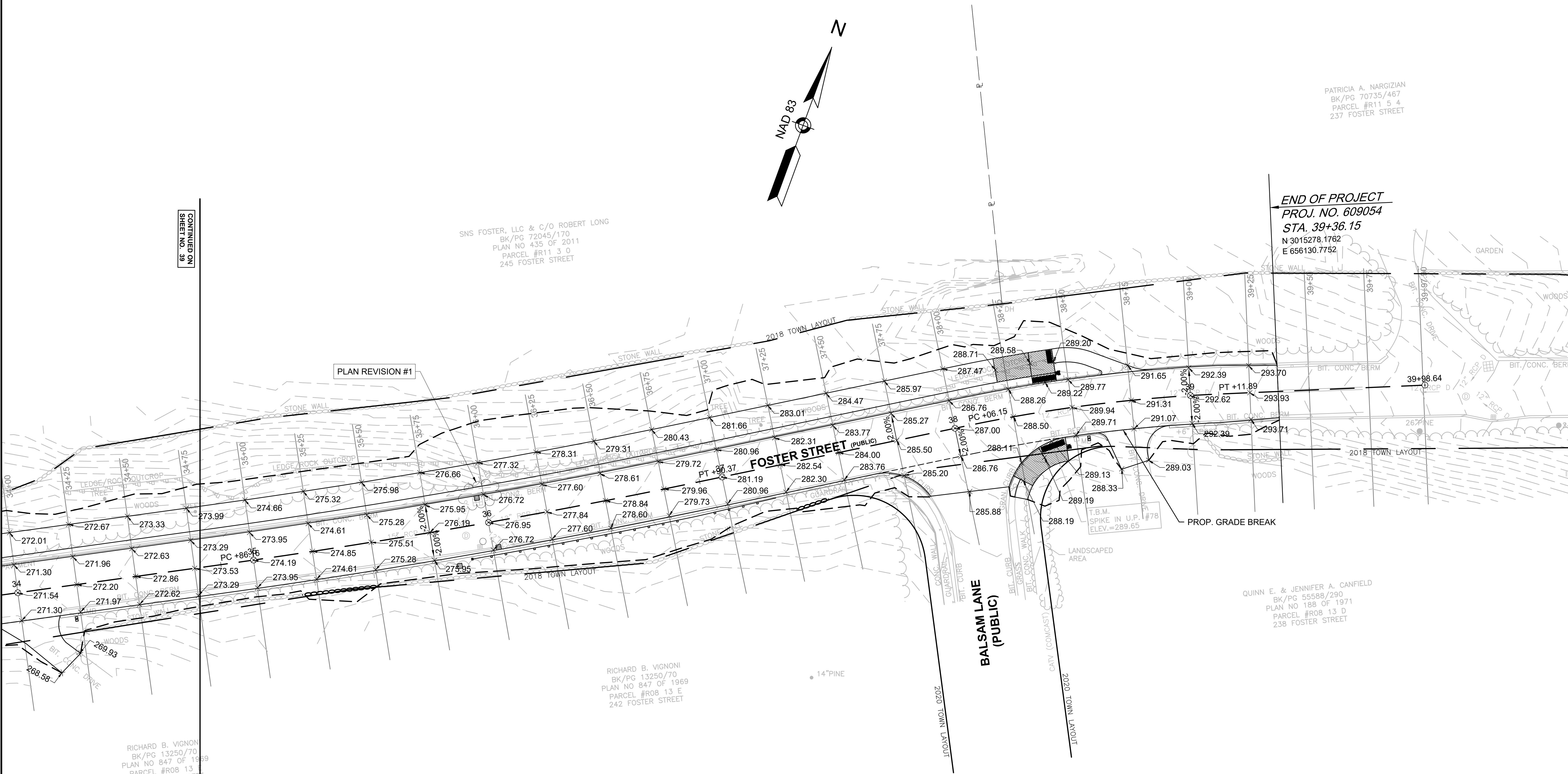
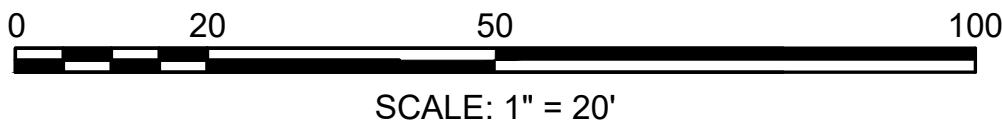
END OF PROJECT  
PROJ. NO. 609054  
STA. 39+36.15  
N 3015278.1762  
E 656130.7752

PLAN REVISION #1

SNS FOSTER, LLC & C/O ROBERT LONG  
BK/PG 72045/170  
PLAN NO 435 OF 2011  
PARCEL #R11 3 0  
245 FOSTER STREET

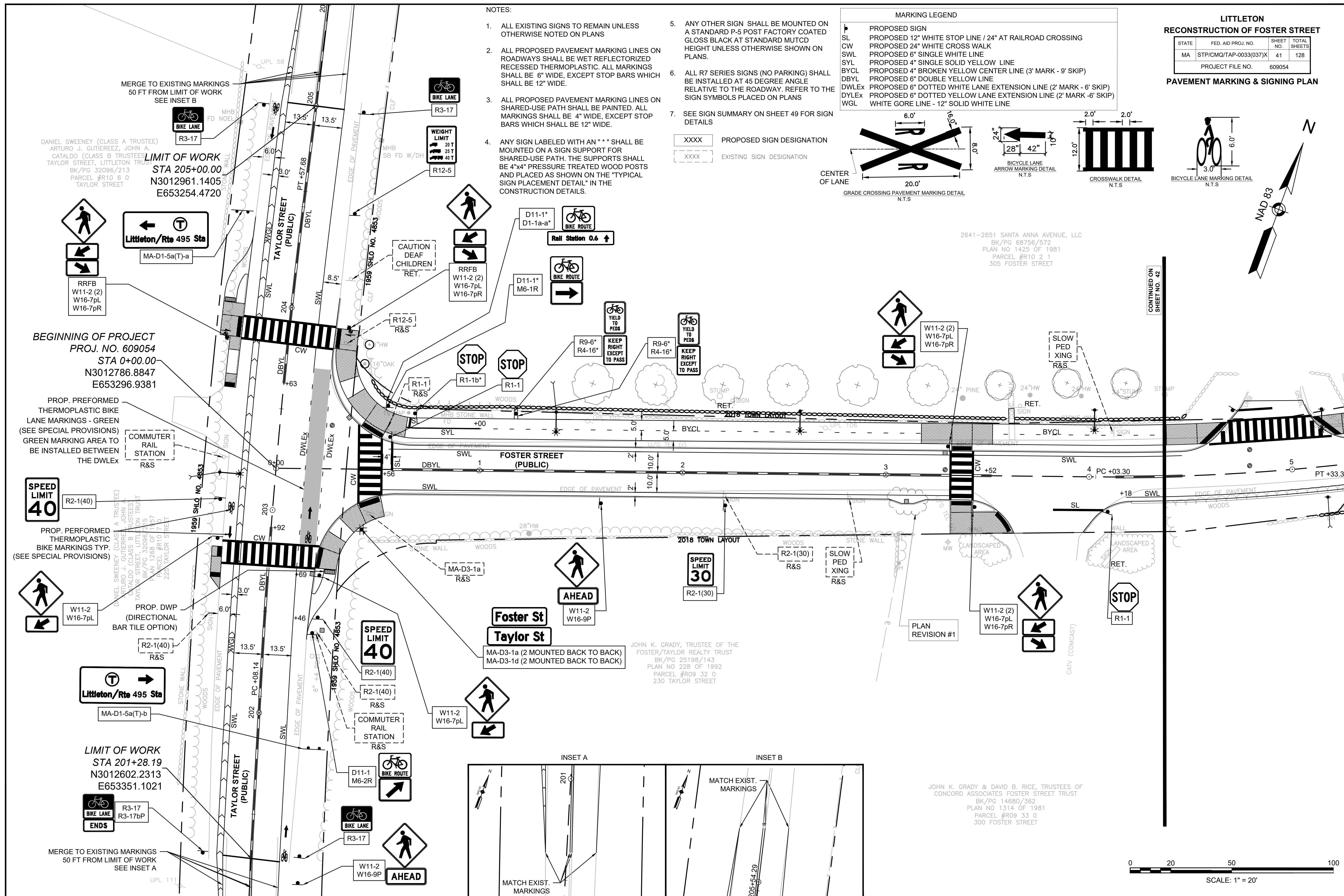
RICHARD B. VIGNONI  
BK/PG 13250/70  
PLAN NO 847 OF 1969  
PARCEL #R08 13 E  
242 FOSTER STREET

QUINN E. & JENNIFER A. CANFIELD  
BK/PG 55588/290  
PLAN NO 188 OF 1971  
PARCEL #R08 13 D  
238 FOSTER STREET



CONTINUED ON  
SHEET NO. 39





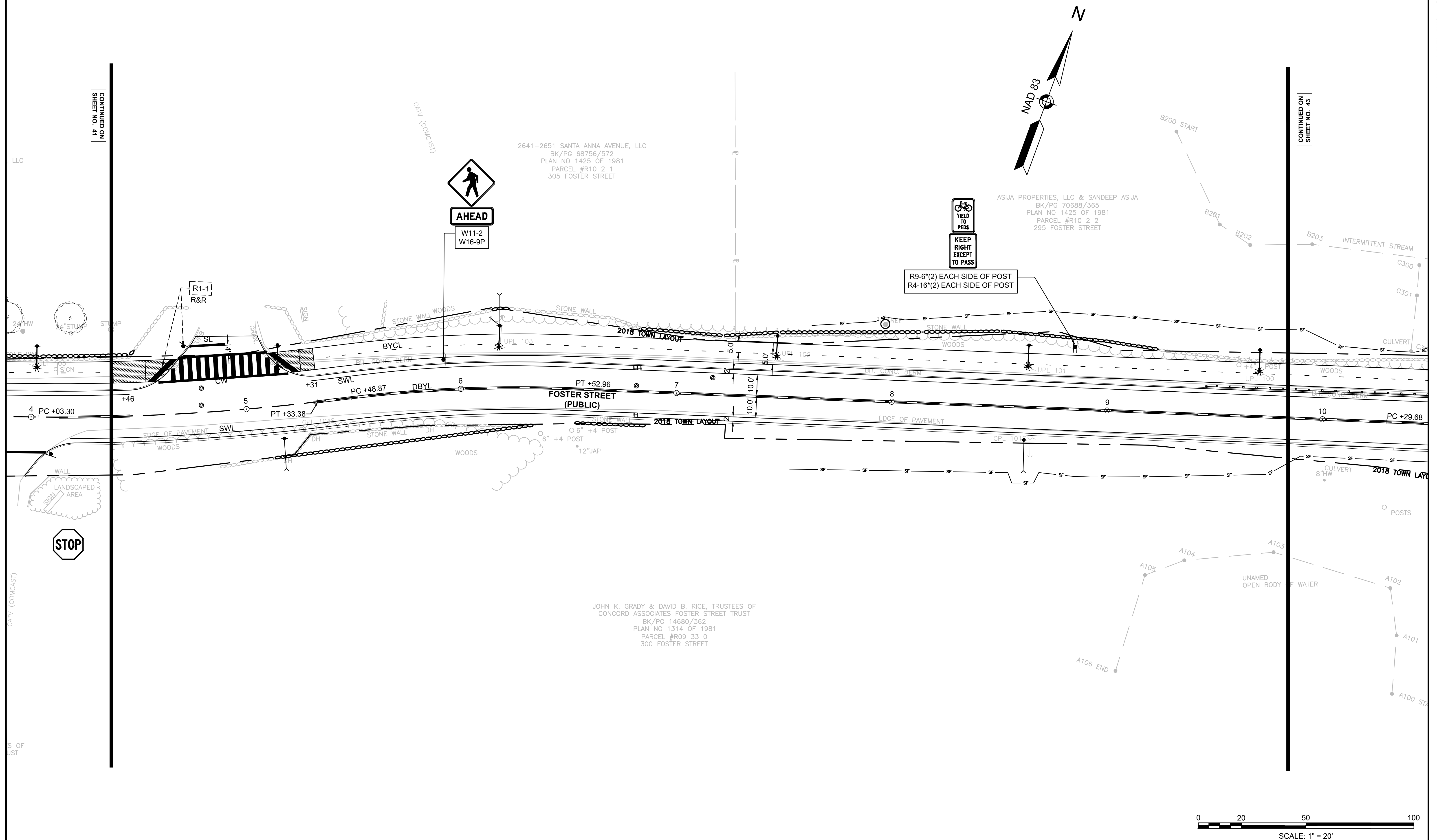


SEE SHEET 41 FOR MARKING &amp; SIGNING NOTES

**LITTLETON  
RECONSTRUCTION OF FOSTER STREET**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	42	128
PROJECT FILE NO.		609054	

## PAVEMENT MARKING & SIGNING PLAN



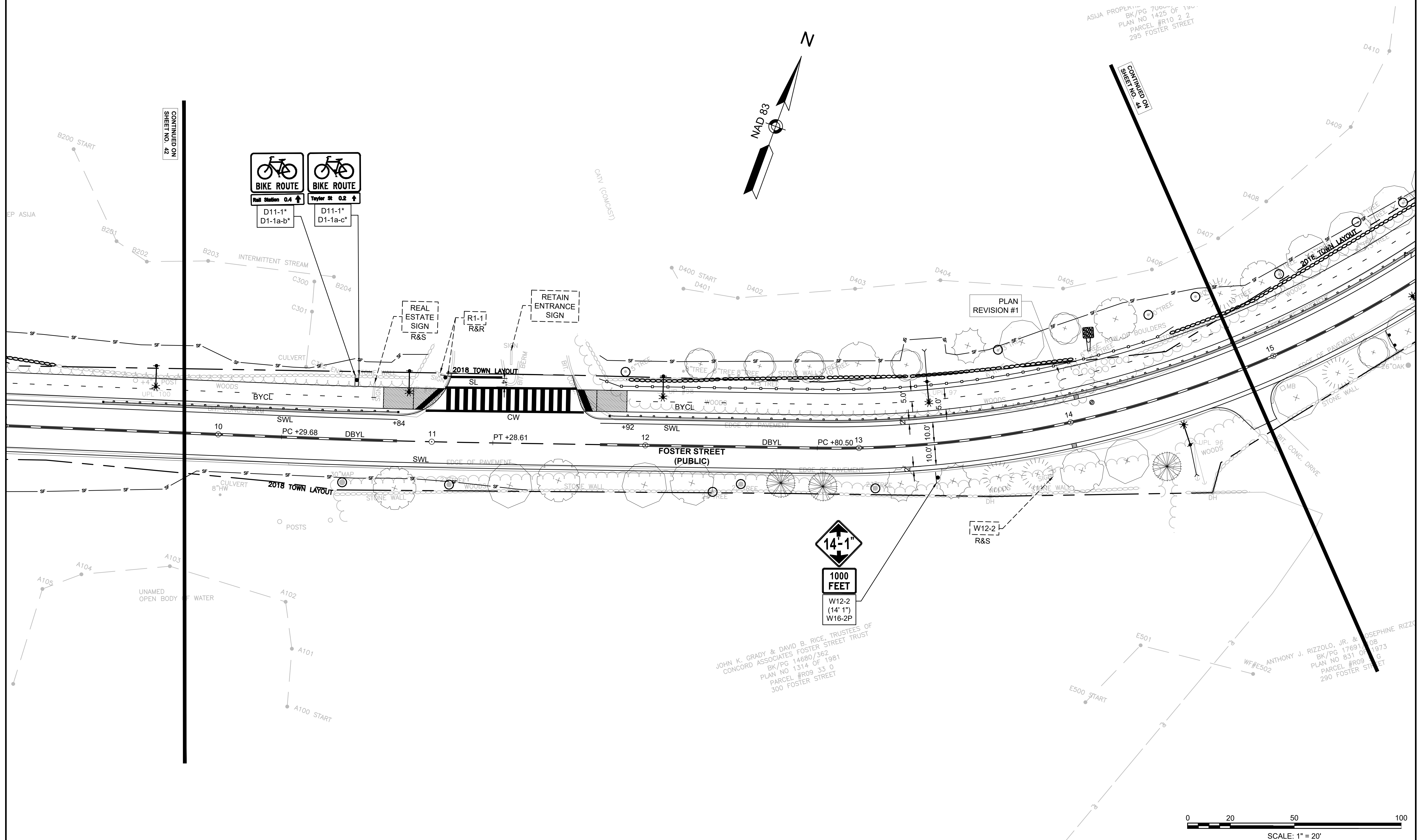


SEE SHEET 41 FOR MARKING &amp; SIGNING NOTES

**LITTLETON  
RECONSTRUCTION OF FOSTER STREET**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	43	128
PROJECT FILE NO.		609054	

PAVEMENT MARKING &amp; SIGNING PLAN



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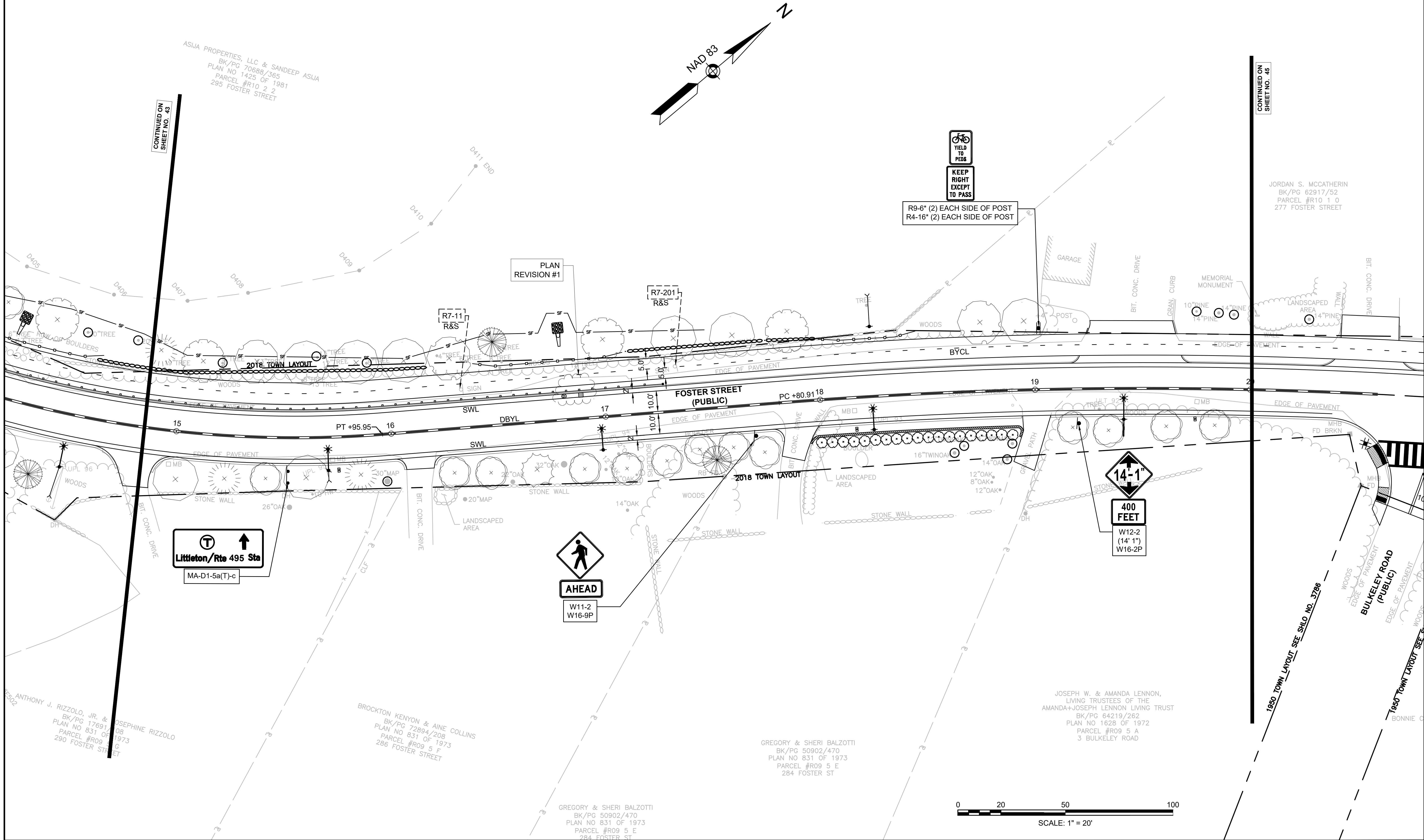


SEE SHEET 41 FOR MARKING & SIGNING NOTES

LITTLETON  
RECONSTRUCTION OF FOSTER STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	44	128
PROJECT FILE NO.		609054	

PAVEMENT MARKING & SIGNING PLAN







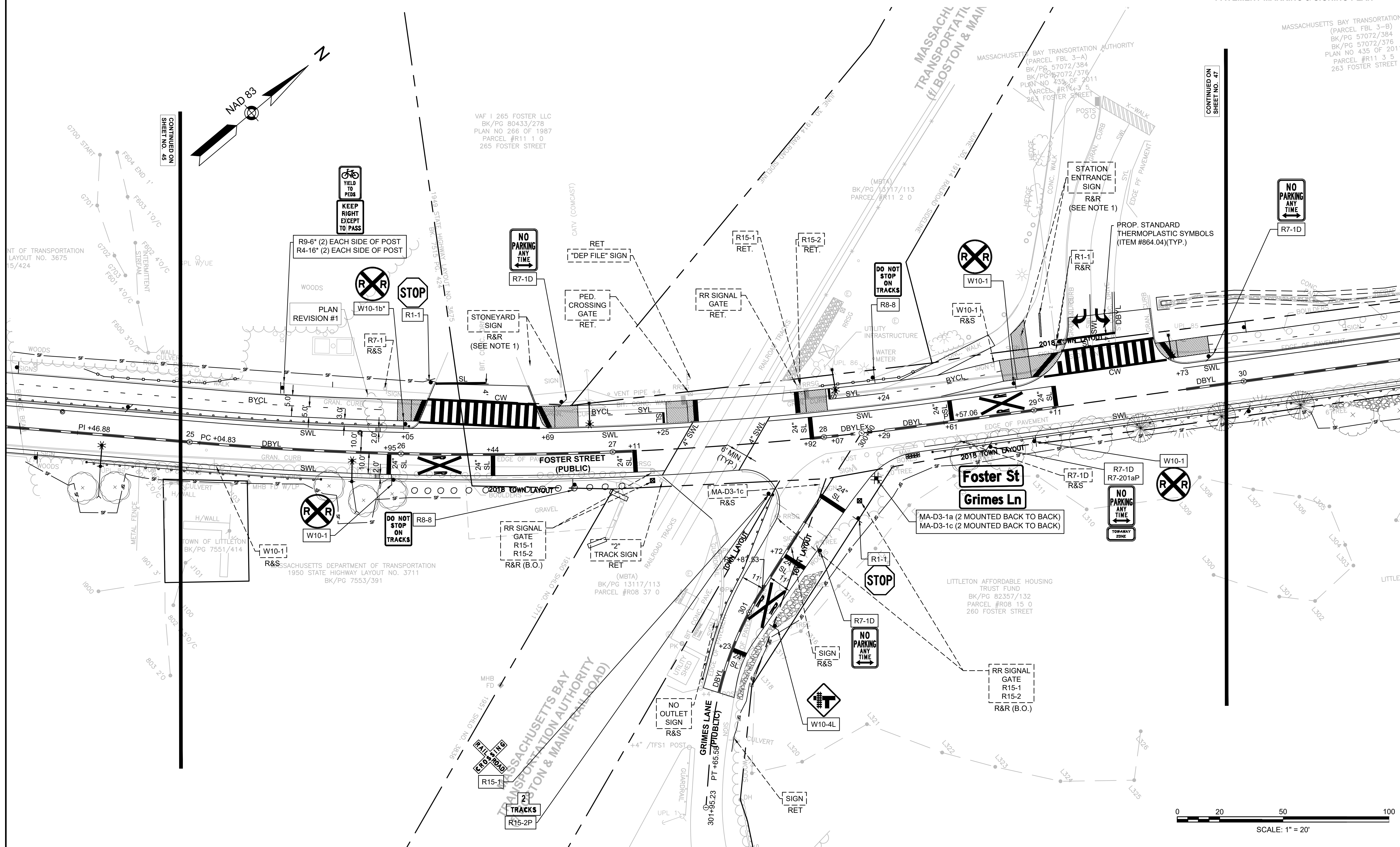


NOTES

1. REMOVE AND RESET OF THESE SIGNS SHALL BE PAID FOR UNDER ITEM 874.85

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	46	128
PROJECT FILE NO.		609054	

MASSACHUSETTS BAY TRANSPORTATION  
(PARCEL FBL 3-B)  
BK/PG 57072/384  
BK/PG 57072/376  
PLAN NO 435 OF 2011  
PARCEL #R11 3 5  
263 FOSTER STREET



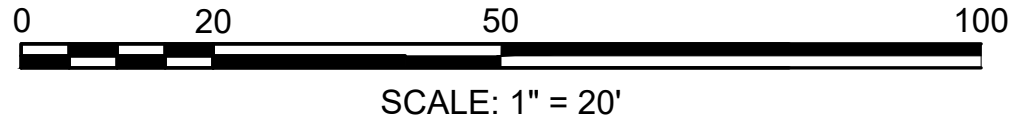
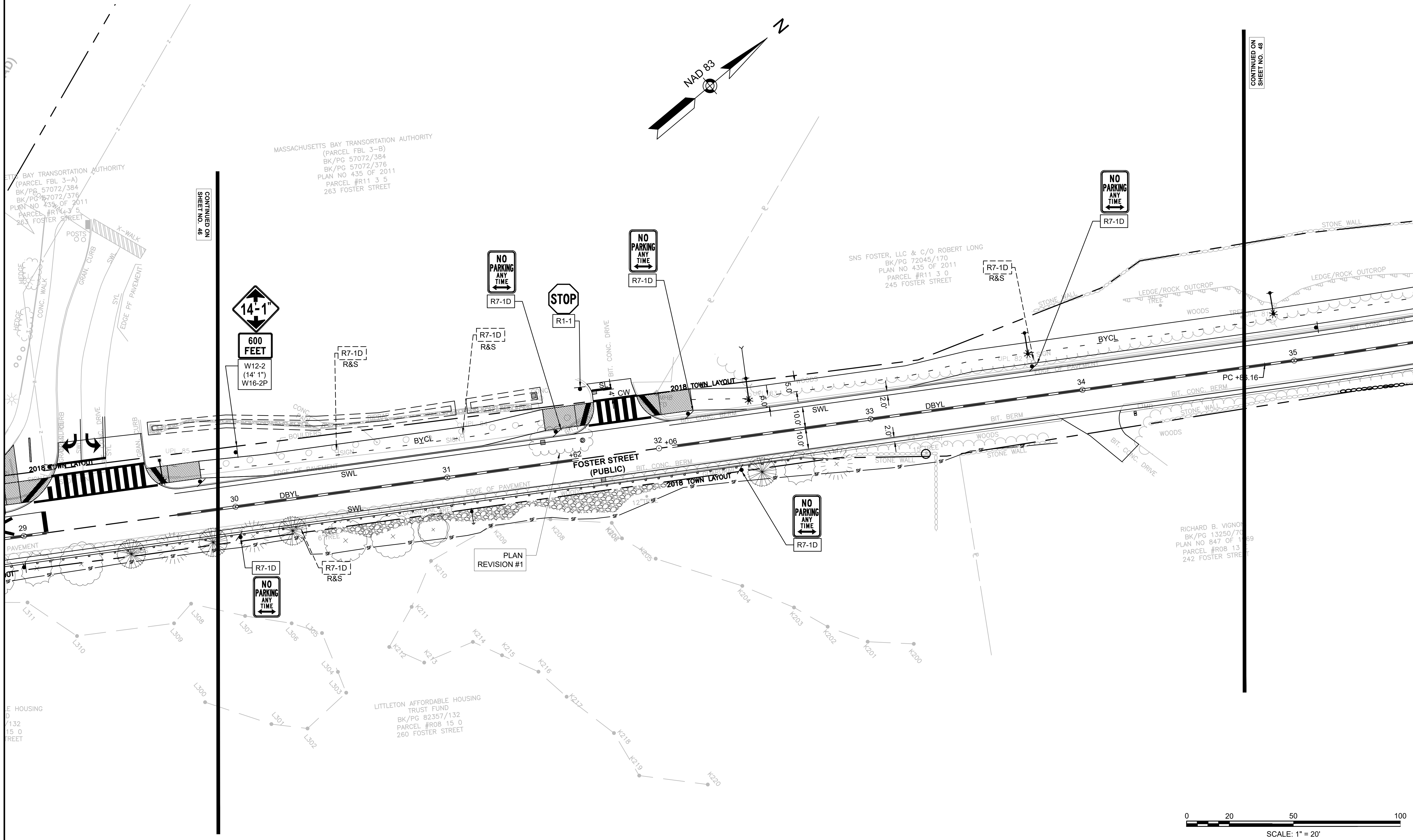


SEE SHEET 41 FOR MARKING & SIGNING NOTES

LITTLETON  
RECONSTRUCTION OF FOSTER STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	47	128
PROJECT FILE NO.		609054	

PAVEMENT MARKING & SIGNING PLAN



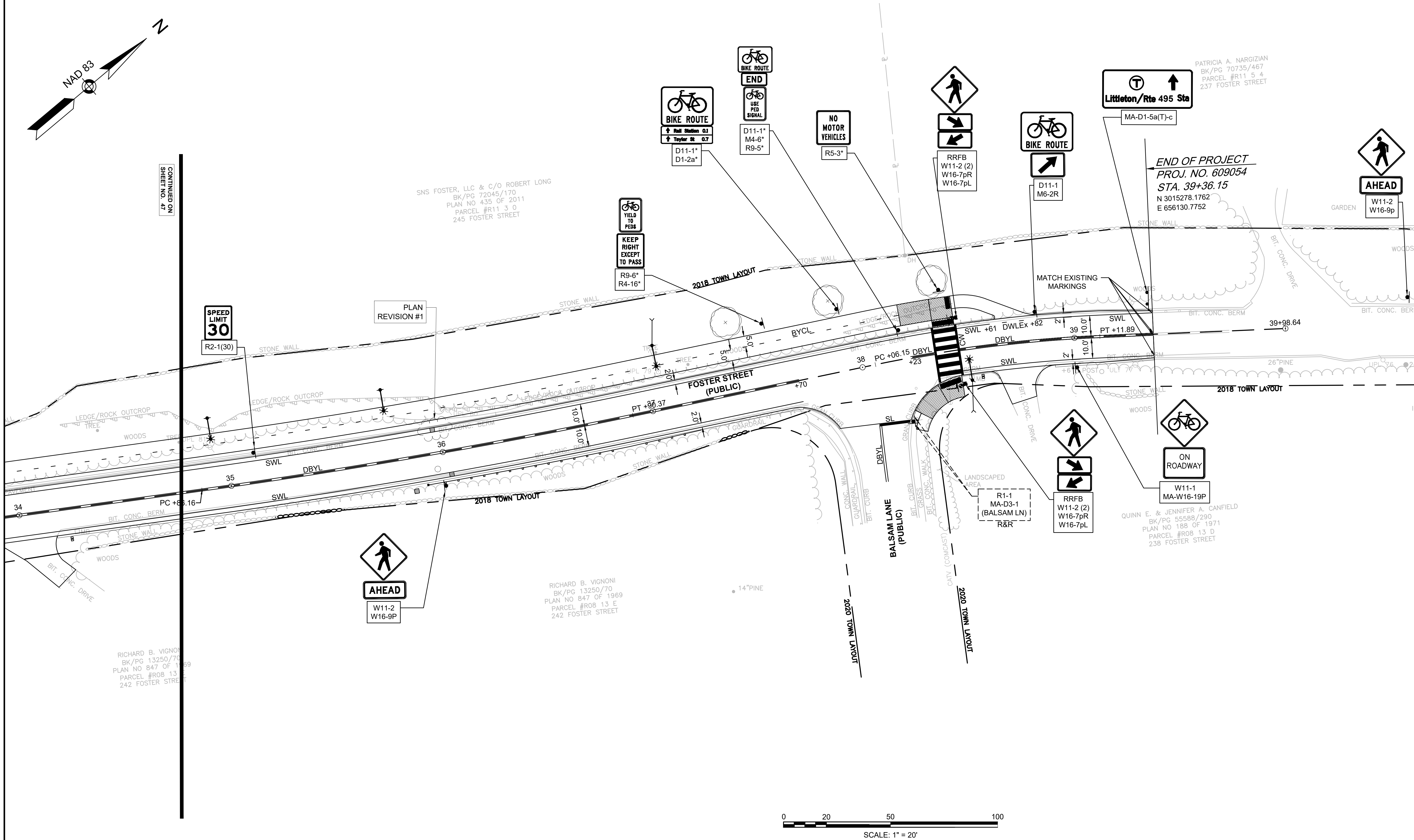


SEE SHEET 41 FOR MARKING & SIGNING NOTES

LITTLETON  
RECONSTRUCTION OF FOSTER STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	48	128
PROJECT FILE NO.		609054	

PAVEMENT MARKING & SIGNING PLAN





GENERAL NOTES:

- IF EXISTING PIPES SHOWN TO BE REMOVED ARE WITHIN THE LIMITS OF NEW PIPE TRENCH EXCAVATION, THEN THE REMOVAL COST OF THE OLD PIPES SHALL BE INCLUDED IN THE UNIT COST FOR THE NEW PIPE THAT IS BEING INSTALLED. IF PIPES SHOWN TO BE REMOVED ARE OUTSIDE THE LIMITS OF NEW PIPE TRENCH (AS DETERMINED BY THE ENGINEER), THEN REMOVAL COST SHALL BE PAID UNDER ITEM 141. CLASS A TRENCH EXCAVATION.
- ALL PROPOSED (NEW) CATCH BASINS SHALL HAVE 4' SUMPS.
- ALL CATCH BASINS WITHIN THE PAVED ROADWAY SHALL HAVE CASCADE STYLE/BICYCLE SAFE GRATES UNLESS OTHERWISE NOTED ON THE PLANS.
- ALL ELEVATIONS, STATIONS, AND OFFSETS FOR ALL CATCH BASINS AND DRAINAGE MANHOLES COME FROM CENTER OF COVER OR GRATE.
- CONTRACTOR SHALL USE APPROPRIATELY SIZED RCP TO MATCH INTO EXISTING PIPES AS SHOWN.

TEST PIT NOTES:

- ALL TEST PITS RELATED TO THE PROPOSED DRAINAGE SYSTEM INSTALLATIONS SHALL BE COMPLETED BY THE CONTRACTOR BEFORE DRAINAGE STRUCTURES ARE ORDERED.

ELECTRICAL NOTES:

- CONTRACTOR SHALL COORDINATE WITH LITTLETON LIGHT AND ELECTRIC DEPT. (LELD) ON THE TIMING OF TRANSFER FOR PRIMARY RISER AT UTILITY POLES #78, #99, #104, AND #105. DISRUPTION TO COMMERCIAL PROPERTIES SHALL BE MINIMIZED BY WEEKEND WORK OR THE USE OF GENERATORS.

TREE TRIMMING NOTES:

- LIMITS OF SELECTIVE CLEARING AND THINNING SHALL BE 10FT OFFSET BACK FROM ANY RESET OHW OR AS SHOWN ON CONSTRUCTION PLANS.

GAS NOTES:

- NOTIFY NATIONAL GRID DAMAGE PREVENTION, MEGHAN KELLEY, AT(339) 203-0490 TWO WEEKS PRIOR TO EXCAVATING NEAR REGULATOR STATION OR GAS MAIN. HIGH PRESSURE GAS MAINS ARE PRESENT IN PROJECT AREA.
- TO REPORT ANY DAMAGE TO A GAS LINE CALL NATIONAL GRID'S EMERGENCY GAS LEAKS NUMBER AT 1-800-233-5325 IMMEDIATELY.
- ALL TEST PITS PERFORMED NEAR GAS MAIN SHALL BE PERFORMED WITH A VACUUM TRUCK SEE SPECIAL PROVISION FOR ITEM 141.101

LITTLETON  
RECONSTRUCTION OF FOSTER STREET

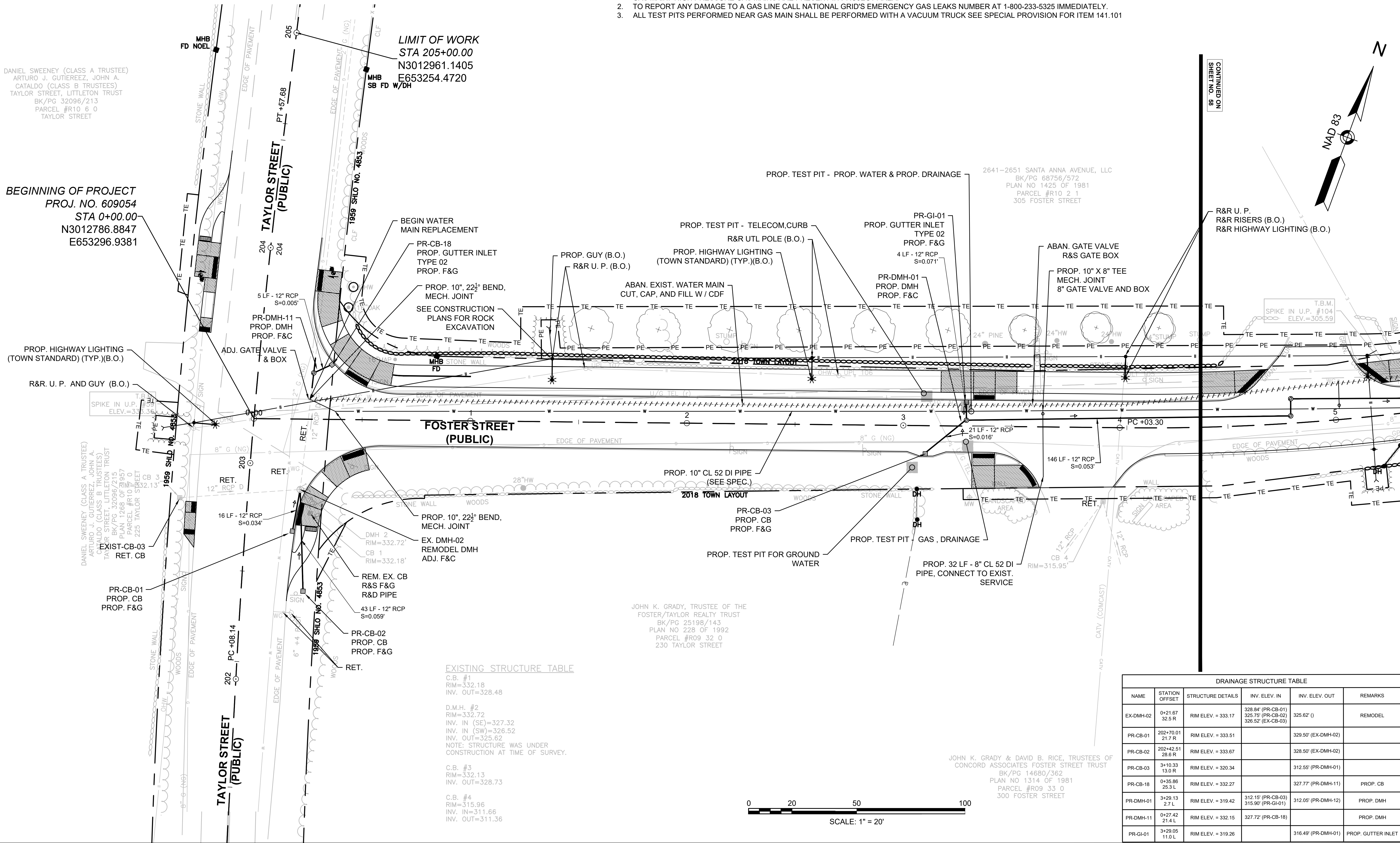
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	57	128
PROJECT FILE NO.		609054	

DRAINAGE & UTILITY PLANS

DANIEL SWEENEY (CLASS A TRUSTEE)  
ARTURO J. GUTIERREZ, JOHN A.  
CATALDO (CLASS B TRUSTEES)  
TAYLOR STREET, LITTLETON TRUST  
BK/PG 32096/213  
PARCEL #R10 6 0  
TAYLOR STREET

BEGINNING OF PROJECT  
PROJ. NO. 609054  
STA 0+00.00  
N3012786.8847  
E653296.9381

LIMIT OF WORK  
STA 205+00.00  
N3012961.1405  
E653254.4720



EXISTING STRUCTURE TABLE

C.B. #1	RIM=332.18	INV. OUT=328.48
D.M.H. #2	RIM=332.72	INV. IN (SE)=327.32
	INV. IN (SW)=326.52	INV. OUT=325.62
NOTE: STRUCTURE WAS UNDER CONSTRUCTION AT TIME OF SURVEY.		
C.B. #3	RIM=332.13	INV. OUT=328.73
C.B. #4	RIM=315.96	INV. IN=311.66
	INV. OUT=311.36	

DRAINAGE STRUCTURE TABLE					
NAME	STATION OFFSET	STRUCTURE DETAILS	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
EX-DMH-02	0+21.67 32.5 R	RIM ELEV. = 333.17	328.84' (PR-CB-01) 325.75' (PR-CB-02) 326.52' (EX-CB-03)	325.62' (I)	REMODEL
PR-CB-01	202+70.01 21.7 R	RIM ELEV. = 333.51		329.50' (EX-DMH-02)	
PR-CB-02	202+42.51 28.6 R	RIM ELEV. = 333.67		328.50' (EX-DMH-02)	
PR-CB-03	3+10.33 13.0 R	RIM ELEV. = 320.34		312.55' (PR-DMH-01)	
PR-CB-18	0+35.86 25.3 L	RIM ELEV. = 332.27		327.77' (PR-DMH-11)	PROP. CB
PR-DMH-01	3+29.13 2.7 L	RIM ELEV. = 319.42	312.15' (PR-CB-03) 315.90' (PR-GI-01)	312.05' (PR-DMH-12)	PROP. DMH
PR-DMH-11	0+27.42 21.4 L	RIM ELEV. = 332.15	327.72' (PR-CB-18)		PROP. DMH
PR-GI-01	3+29.05 11.0 L	RIM ELEV. = 319.26		316.49' (PR-DMH-01)	PROP. GUTTER INLET



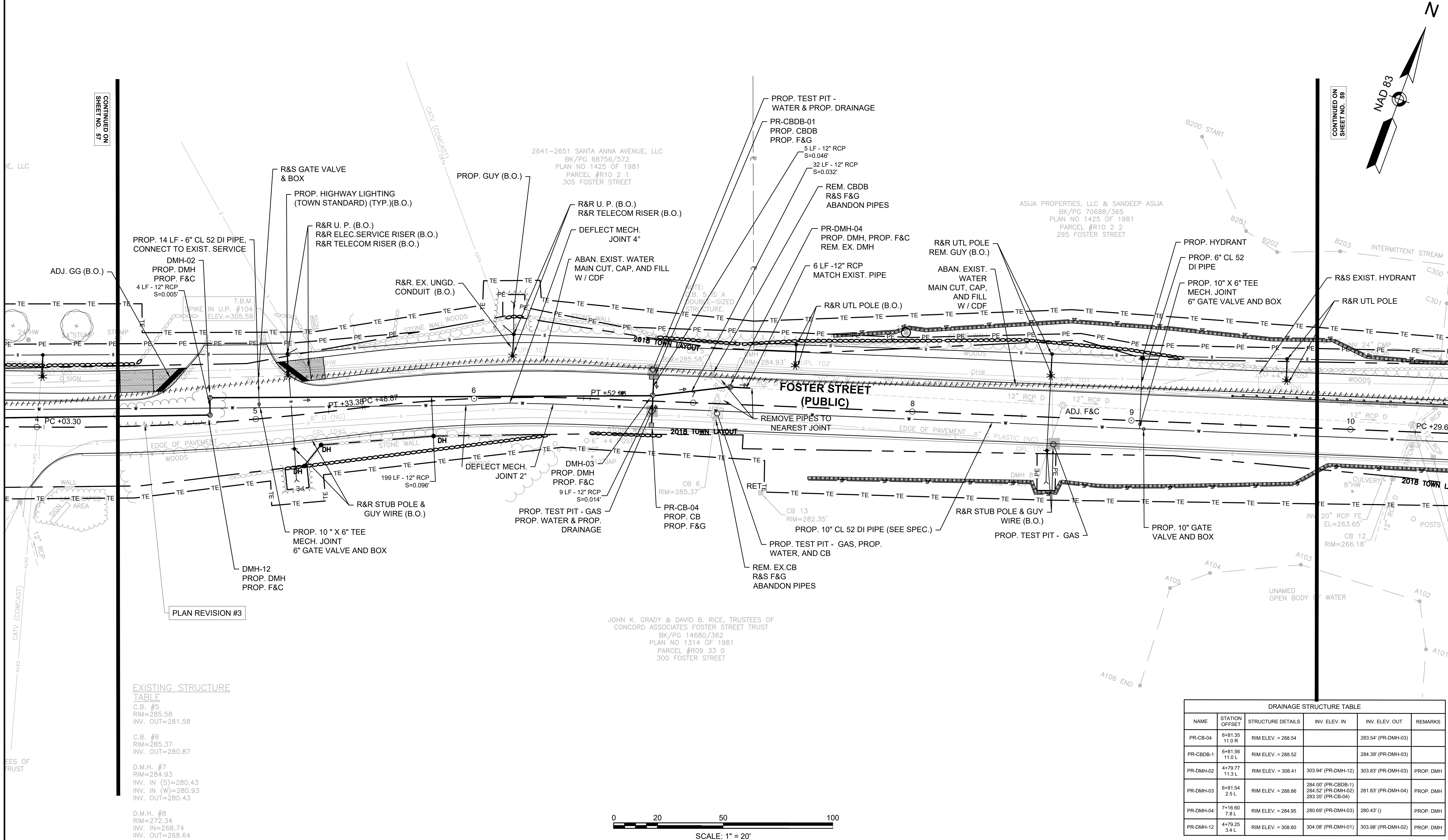
- NOTES:
- SEE SHEET 57 FOR GENERAL UTILITY, ELECTRICAL AND TREE TRIMMING NOTES
  - \* - CONTRACTOR TO MATCH EXISTING PIPE INVERT. INVERT GIVEN IS APPROXIMATE

- GAS NOTES:
- NOTIFY NATIONAL GRID DAMAGE PREVENTION, MEGHAN KELLEY, AT(339) 203-0490 TWO WEEKS PRIOR TO EXCAVATING NEAR REGULATOR STATION OR GAS MAIN. HIGH PRESSURE GAS MAINS ARE PRESENT IN PROJECT AREA.
  - TO REPORT ANY DAMAGE TO A GAS LINE CALL NATIONAL GRID'S EMERGENCY GAS LEAKS NUMBER AT 1-800-233-5325 IMMEDIATELY.
  - ALL TEST PITS PERFORMED NEAR GAS MAIN SHALL BE PERFORMED WITH A VACUUM TRUCK SEE SPECIAL PROVISION FOR ITEM 141.101

LITTLETON  
RECONSTRUCTION OF FOSTER STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	58	128
PROJECT FILE NO.		609054	

DRAINAGE & UTILITY PLANS



DRAINAGE STRUCTURE TABLE					
NAME	STATION OFFSET	STRUCTURE DETAILS	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
PR-CB-04	6+81.35 11.0 R	RIM ELEV. = 285.54		283.54' (PR-DMH-03)	
PR-CBDB-1	6+81.56 11.0 L	RIM ELEV. = 288.52		284.39' (PR-DMH-03)	
PR-DMH-02	4+79.77 11.3 L	RIM ELEV. = 308.41	303.94' (PR-DMH-12)	303.83' (PR-DMH-03)	PROP. DMH
PR-DMH-03	6+81.54 2.5 L	RIM ELEV. = 288.86	284.00' (PR-CBDB-1) 284.52' (PR-DMH-02) 283.35' (PR-CB-04)	281.83' (PR-DMH-04)	PROP. DMH
PR-DMH-04	7+16.60 7.8 L	RIM ELEV. = 284.95	280.69' (PR-DMH-03)	280.43' ( )	PROP. DMH
PR-DMH-12	4+79.25 3.4 L	RIM ELEV. = 308.60	304.08' (PR-DMH-01)	303.98' (PR-DMH-02)	PROP. DMH



1. SEE SHEET 57 FOR GENERAL UTILITY, ELECTRICAL AND TREE TRIMMING NOTES
2. \* - CONTRACTOR TO MATCH EXISTING PIPE INVERT. INVERT GIVEN IS APPROXIMATE

1. NOTIFY NATIONAL GRID DAMAGE PREVENTION, MEGHAN KELLEY, AT(339) 203-0490 TWO WEEKS PRIOR TO EXCAVATING NEAR REGULATOR STATION OR GAS MAIN. HIGH PRESSURE GAS MAINS ARE PRESENT IN PROJECT AREA.
2. TO REPORT ANY DAMAGE TO A GAS LINE CALL NATIONAL GRID'S EMERGENCY GAS LEAKS NUMBER AT 1-800-233-5325 IMMEDIATELY.
3. ALL TEST PITS PERFORMED NEAR GAS MAIN SHALL BE PERFORMED WITH A VACUUM TRUCK SEE SPECIAL PROVISION FOR ITEM 141.101

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	59	128
PROJECT FILE NO.		609054	

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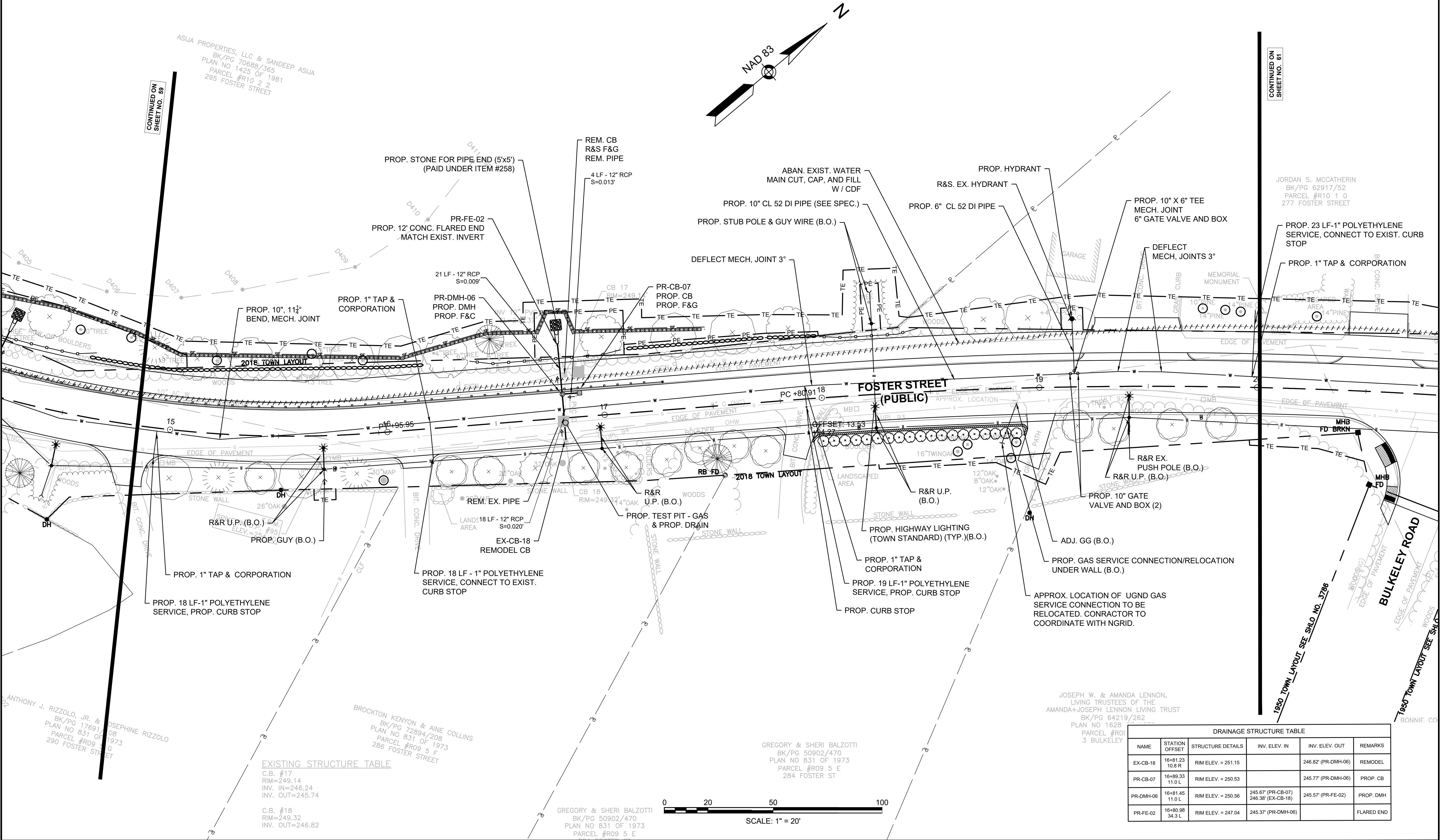
- NOTES:
- SEE SHEET 57 FOR GENERAL UTILITY, ELECTRICAL AND TREE TRIMMING NOTES
  - \* - CONTRACTOR TO MATCH EXISTING PIPE INVERT. INVERT GIVEN IS APPROXIMATE

- GAS NOTES:
- NOTIFY NATIONAL GRID DAMAGE PREVENTION, MEGHAN KELLEY, AT(339) 203-0490 TWO WEEKS PRIOR TO EXCAVATING NEAR REGULATOR STATION OR GAS MAIN. HIGH PRESSURE GAS MAINS ARE PRESENT IN PROJECT AREA.
  - TO REPORT ANY DAMAGE TO A GAS LINE CALL NATIONAL GRID'S EMERGENCY GAS LEAKS NUMBER AT 1-800-233-5325 IMMEDIATELY.
  - ALL TEST PITS PERFORMED NEAR GAS MAIN SHALL BE PERFORMED WITH A VACUUM TRUCK SEE SPECIAL PROVISION FOR ITEM 141.101

LITTLETON  
RECONSTRUCTION OF FOSTER STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	60	128
PROJECT FILE NO.		609054	

DRAINAGE & UTILITY PLANS





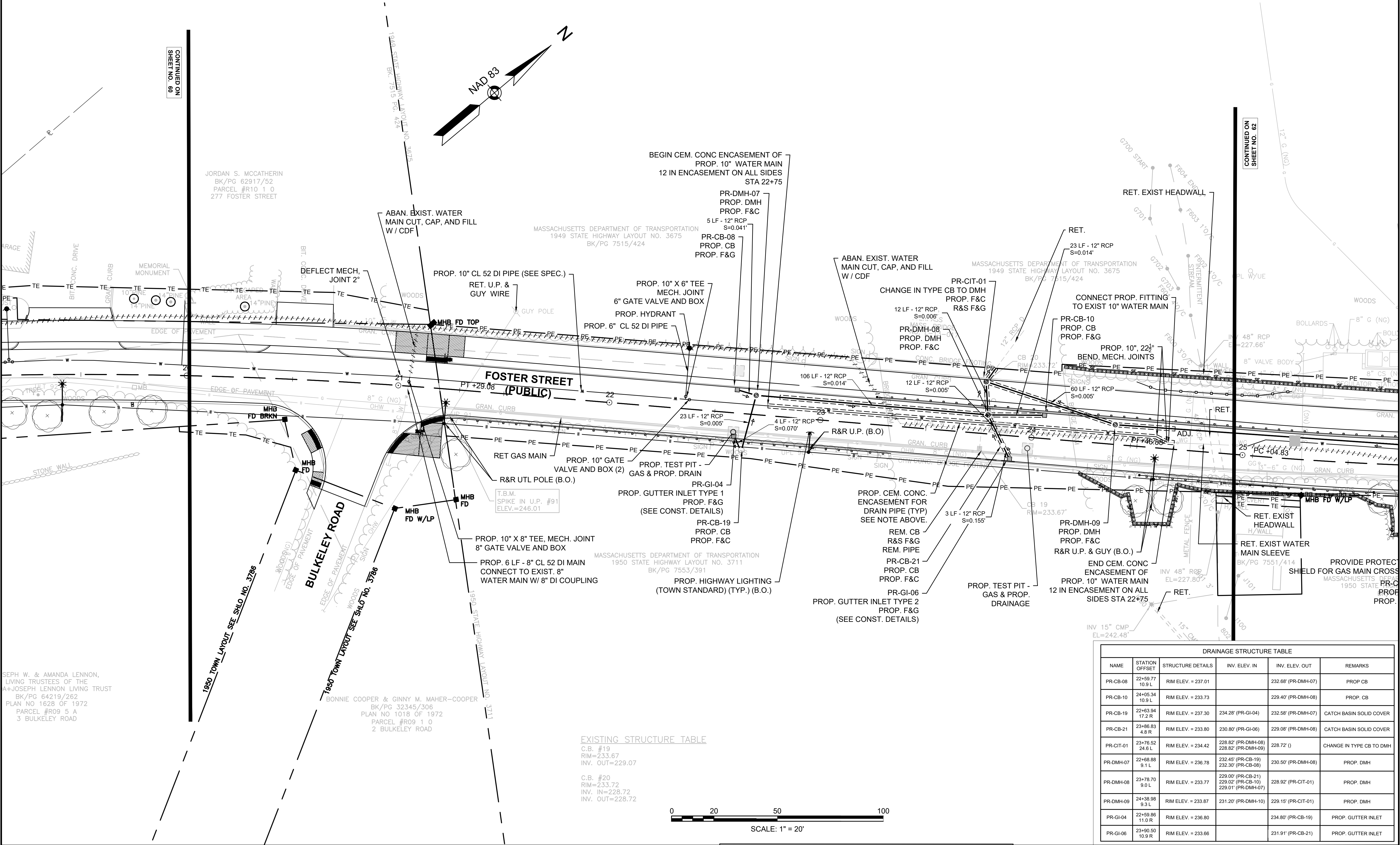
- NOTES:
- SEE SHEET 57 FOR GENERAL UTILITY, ELECTRICAL AND TREE TRIMMING NOTES
  - \* - CONTRACTOR TO MATCH EXISTING PIPE INVERT. INVERT GIVEN IS APPROXIMATE

- GAS NOTES:
- NOTIFY NATIONAL GRID DAMAGE PREVENTION, MEGHAN KELLEY, AT(339) 203-0490 TWO WEEKS PRIOR TO EXCAVATING NEAR REGULATOR STATION OR GAS MAIN. HIGH PRESSURE GAS MAINS ARE PRESENT IN PROJECT AREA.
  - TO REPORT ANY DAMAGE TO A GAS LINE CALL NATIONAL GRID'S EMERGENCY GAS LEAKS NUMBER AT 1-800-233-5325 IMMEDIATELY.
  - ALL TEST PITS PERFORMED NEAR GAS MAIN SHALL BE PERFORMED WITH A VACUUM TRUCK SEE SPECIAL PROVISION FOR ITEM 141.101

LITTLETON  
RECONSTRUCTION OF FOSTER STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	61	128
PROJECT FILE NO.		609054	

DRAINAGE & UTILITY PLANS

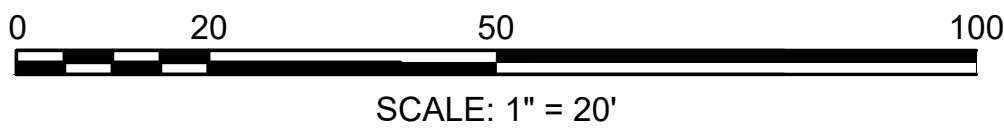


DRAINAGE STRUCTURE TABLE					
NAME	STATION OFFSET	STRUCTURE DETAILS	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
PR-CB-08	22+59.77 10.9 L	RIM ELEV. = 237.01		232.68' (PR-DMH-07)	PROP. CB
PR-CB-10	24+05.34 10.9 L	RIM ELEV. = 233.73		229.40' (PR-DMH-08)	PROP. CB
PR-CB-19	22+63.94 17.2 R	RIM ELEV. = 237.30	234.28' (PR-GI-04)	232.58' (PR-DMH-07)	CATCH BASIN SOLID COVER
PR-CB-21	23+86.83 4.8 R	RIM ELEV. = 233.80	230.80' (PR-GI-06)	229.08' (PR-DMH-08)	CATCH BASIN SOLID COVER
PR-CIT-01	23+76.52 24.6 L	RIM ELEV. = 234.42	228.82' (PR-DMH-08) 228.82' (PR-DMH-09)	228.72' ( )	CHANGE IN TYPE CB TO DMH
PR-DMH-07	22+68.88 9.1 L	RIM ELEV. = 236.78	232.45' (PR-CB-19) 232.30' (PR-CB-08)	230.50' (PR-DMH-08)	PROP. DMH
PR-DMH-08	23+78.70 9.0 L	RIM ELEV. = 233.77	229.00' (PR-CB-21) 229.02' (PR-CB-10) 229.01' (PR-DMH-07)	228.92' (PR-CIT-01)	PROP. DMH
PR-DMH-09	24+38.98 9.3 L	RIM ELEV. = 233.87	231.20' (PR-DMH-10)	229.15' (PR-CIT-01)	PROP. DMH
PR-GI-04	22+59.86 11.0 R	RIM ELEV. = 236.80		234.80' (PR-CB-19)	PROP. GUTTER INLET
PR-GI-06	23+90.50 10.9 R	RIM ELEV. = 233.66		231.91' (PR-CB-21)	PROP. GUTTER INLET

EXISTING STRUCTURE TABLE

C.B. #19  
RIM=233.67  
INV. OUT=229.07

C.B. #20  
RIM=233.72  
INV. IN=228.72  
INV. OUT=228.72





- NOTES:
- SEE SHEET 57 FOR GENERAL UTILITY, ELECTRICAL AND TREE TRIMMING NOTES
  - \* - CONTRACTOR TO MATCH EXISTING PIPE INVERT. INVERT GIVEN IS APPROXIMATE

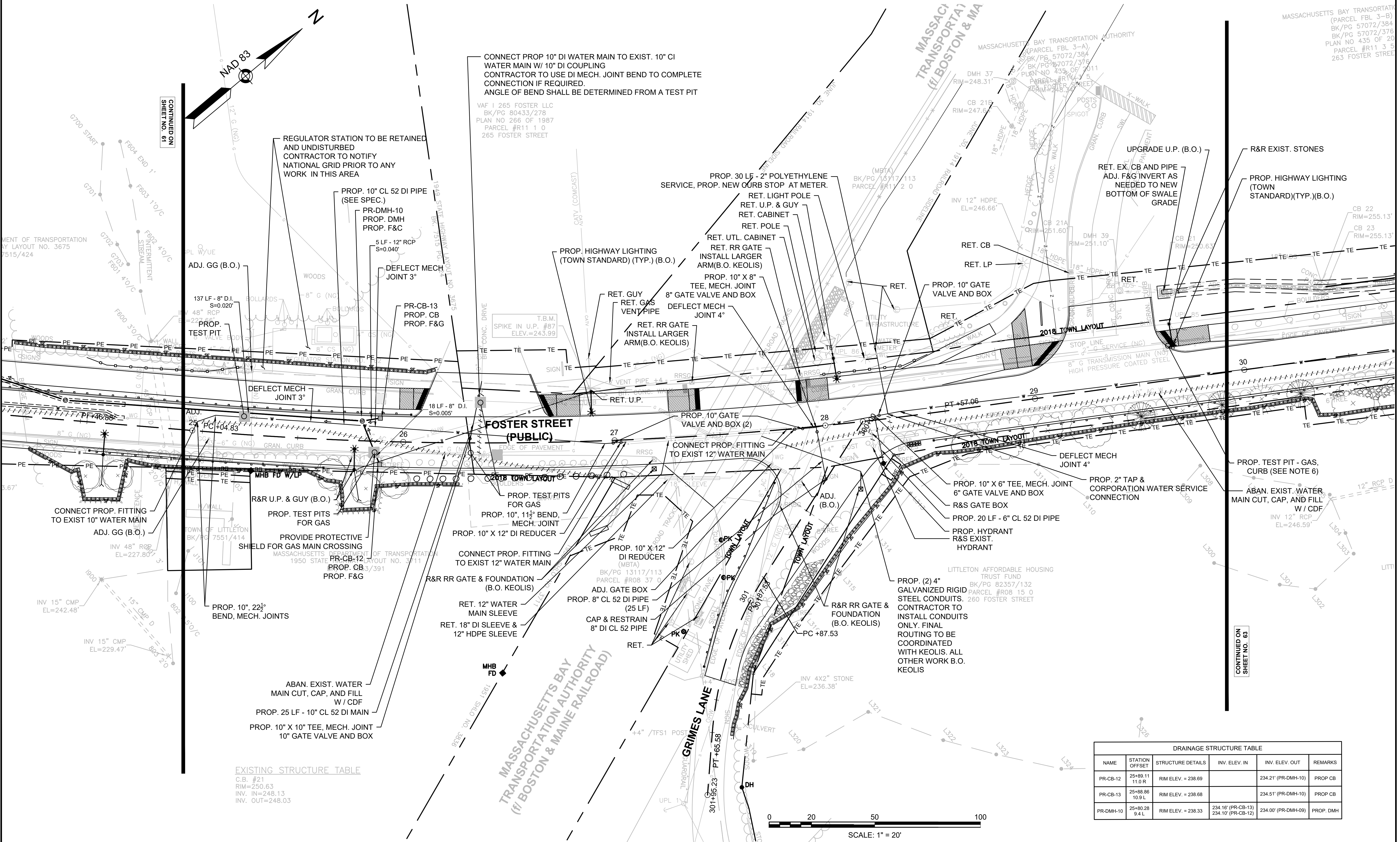
GAS NOTES:

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- TO REPORT ANY DAMAGE TO A GAS LINE CALL NATIONAL GRID'S EMERGENCY GAS LEAKS NUMBER AT 1-800-233-5325 IMMEDIATELY.
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LITTLETON  
RECONSTRUCTION OF FOSTER STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	62	128
PROJECT FILE NO. 609054			

DRAINAGE & UTILITY PLANS



DRAINAGE STRUCTURE TABLE				
NAME	STATION OFFSET	STRUCTURE DETAILS	INV. ELEV. IN	INV. ELEV. OUT
PR-CB-12	25+89.11 11.0 R	RIM ELEV. = 238.69		234.21' (PR-DMH-10)
PR-CB-13	25+88.86 10.9 L	RIM ELEV. = 238.68		234.51' (PR-DMH-10)
PR-DMH-10	25+90.28 9.4 L	RIM ELEV. = 238.33	234.16' (PR-CB-13) 234.10' (PR-CB-12)	234.00' (PR-DMH-09)



- NOTES:
- SEE SHEET 57 FOR GENERAL UTILITY, ELECTRICAL AND TREE TRIMMING NOTES
  - \* - CONTRACTOR TO MATCH EXISTING PIPE INVERT. INVERT GIVEN IS APPROXIMATE

GAS NOTES:

1. NOTIFY NATIONAL GRID DAMAGE PREVENTION, MEGHAN KELLEY, AT (339) 203-0490 TWO WEEKS PRIOR TO EXCAVATING NEAR REGULATOR STATION OR GAS MAIN. HIGH PRESSURE GAS MAINS ARE PRESENT IN PROJECT AREA.

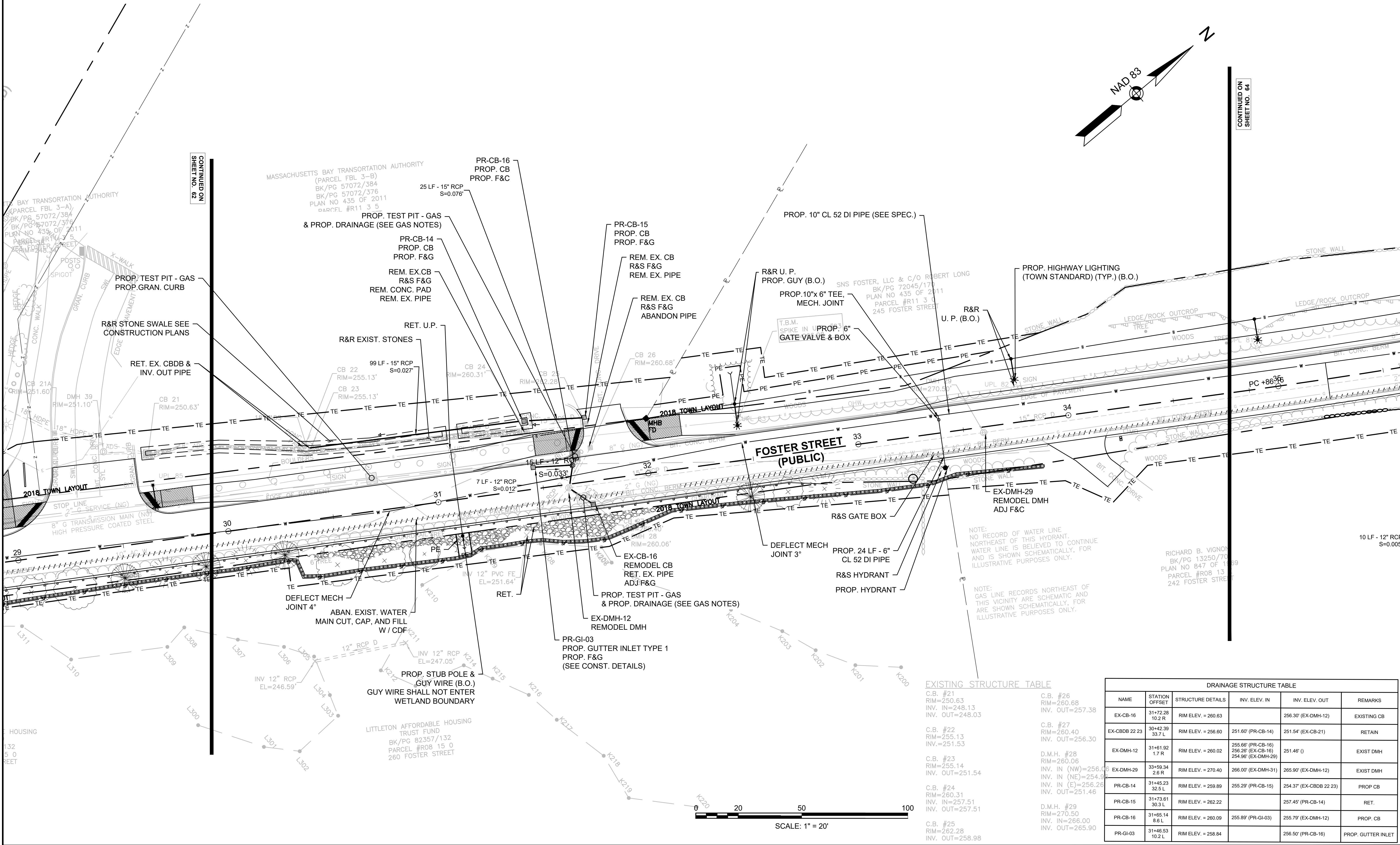
2. TO REPORT ANY DAMAGE TO A GAS LINE CALL NATIONAL GRID'S EMERGENCY GAS LEAKS NUMBER AT 1-800-233-5325 IMMEDIATELY.

3. ALL TEST PITS PERFORMED NEAR GAS MAIN SHALL BE PERFORMED WITH A VACUUM TRUCK SEE SPECIAL PROVISION FOR ITEM 141.101

LITTLETON  
RECONSTRUCTION OF FOSTER STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	63	128
PROJECT FILE NO.		609054	

DRAINAGE & UTILITY PLANS



EXISTING STRUCTURE TABLE

C.B. #21 RIM=250.63 INV. IN=248.13 INV. OUT=248.03	C.B. #26 RIM=260.68 INV. OUT=257.38
C.B. #22 RIM=255.13 INV.=251.53	C.B. #27 RIM=260.40 INV. OUT=256.30
C.B. #23 RIM=255.14 INV. OUT=251.54	D.M.H. #28 RIM=260.06 INV. IN (NW)=256.05 INV. IN (NE)=254.98 INV. IN (E)=256.26 INV. OUT=251.46
C.B. #24 RIM=260.31 INV. IN=257.51 INV. OUT=257.51	D.M.H. #29 RIM=270.50 INV. IN=266.00 INV. OUT=265.90
C.B. #25 RIM=262.28 INV. OUT=258.98	

DRAINAGE STRUCTURE TABLE

NAME	STATION OFFSET	STRUCTURE DETAILS	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
EX-CB-16	31+72.28 10.2 R	RIM ELEV. = 260.63		256.30' (EX-DMH-12)	EXISTING CB
EX-CBDB 22 23	30+42.39 33.7 L	RIM ELEV. = 256.60	251.60' (PR-CB-14)	251.54' (EX-CB-21)	RETAIN
EX-DMH-12	31+61.92 1.7 R	RIM ELEV. = 260.02	255.66' (PR-CB-16) 256.26' (EX-CB-16) 254.96' (EX-DMH-29)	251.46' ( )	EXIST DMH
EX-DMH-29	33+59.34 2.6 R	RIM ELEV. = 270.40	266.00' (EX-DMH-31)	265.90' (EX-DMH-12)	EXIST DMH
PR-CB-14	31+45.23 32.5 L	RIM ELEV. = 259.89	255.29' (PR-CB-15)	254.37' (EX-CBDB 22 23)	PROP CB
PR-CB-15	31+73.61 30.3 L	RIM ELEV. = 262.22		257.45' (PR-CB-14)	RET.
PR-CB-16	31+65.14 8.6 L	RIM ELEV. = 260.09	255.89' (PR-GI-03)	255.79' (EX-DMH-12)	PROP. CB
PR-GI-03	31+46.53 10.2 L	RIM ELEV. = 258.84		256.50' (PR-CB-16)	PROP. GUTTER INLET



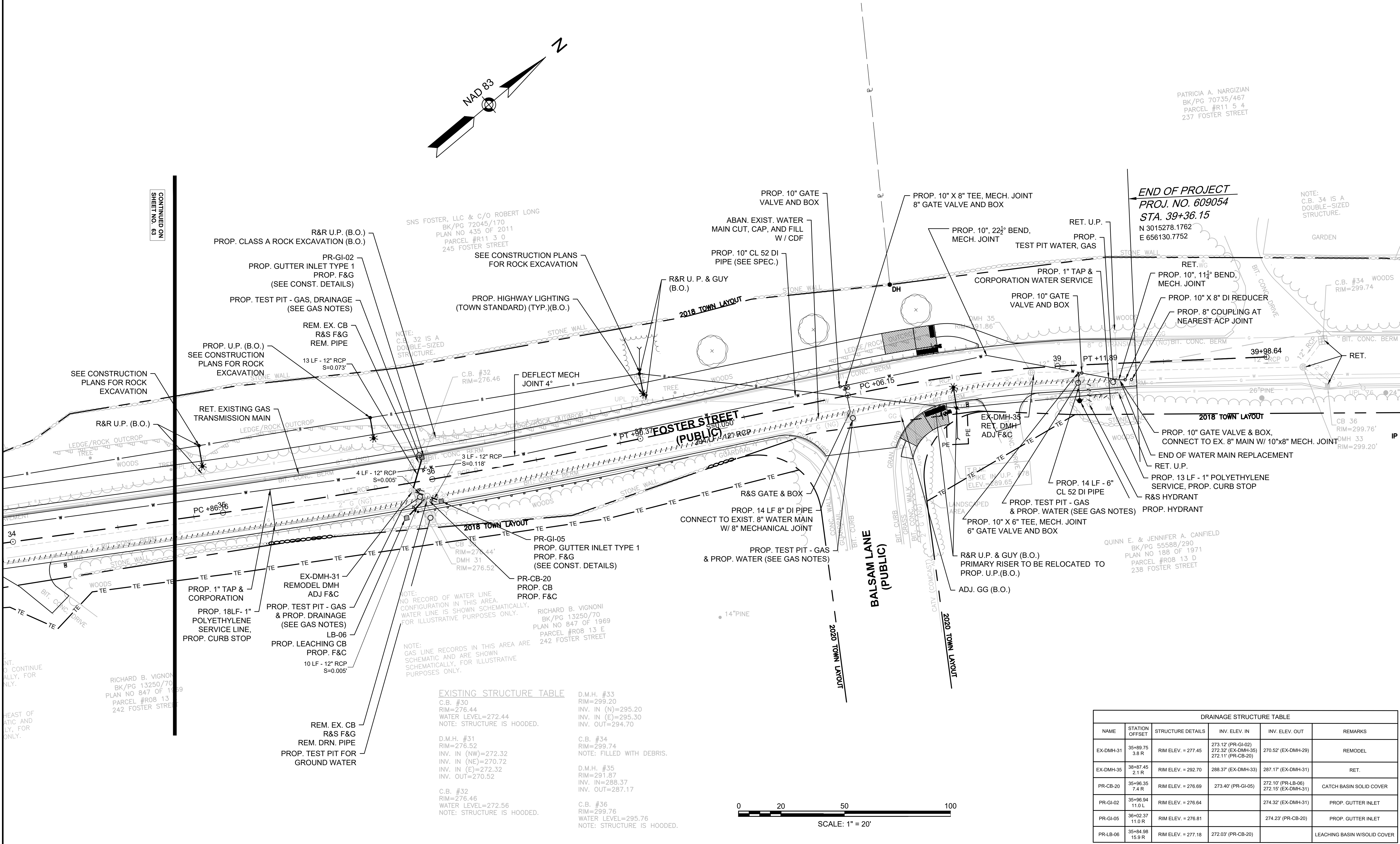
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LITTLETON  
RECONSTRUCTION OF FOSTER STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	64	128
PROJECT FILE NO.		609054	

DRAINAGE & UTILITY PLANS





NOTES:

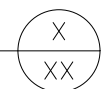
1. PROPOSED PLANTINGS MAY REQUIRE FIELD ADJUSTMENT DUE TO FINAL FIELD CONDITIONS. MASSDOT LANDSCAPE ARCHITECT AND/OR TOWN OF LITTLETON SHALL APPROVE ALL LOCATIONS PRIOR TO PLANTING.

PROJECT SUMMARY PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	HT.	QTY.	SIZE
TREES					
AR	ACER RUBRUM 'KARPICK'	KARPICK RED MAPLE	40'-50'	12	2"-2.5" CAL.
AG	AMELANCHIER X GRANDIFLORA 'ROBIN HILL'	ROBIN HILL SERVICEBERRY	15'-30'	28	1.5"-2" CAL. (SINGLE STEM)
NS	NYSSA SYLVATICA	BLACK GUM	30'-60'	8	2"-2.5" CAL.
QP	QUERCUS PALUSTRIS	PIN OAK	50'-75'	12	2"-2.5" CAL.
QC	QUERCUS COCCINEA	SCARLET OAK	50'-70'	5	2"-2.5" CAL.
CC	CERCIS CANADENSIS	EASTERN REDBUD	20'-30'	10	1.5" CAL.
CG	CRATAEGUS CRUS--GALLI 'INFERMIS'	COCKSPUR HAWTHORN	20'-30'	7	1.5-2" CAL.
PV	PRUNUS VIRGINIANA	CHOKE CHERRY	20'-30'	6	1.5-2" CAL.
SHRUBS					
RC	RHODODENDRON CATAWBIENSE 'ALBUM'	WHITE CATAWBA RHODODENDRON		19	3 GAL.

LEGEND:

PLANT QUANTITY AND SPECIES



LITTLETON  
RECONSTRUCTION OF FOSTER STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	65	128
PROJECT FILE NO.		609054	

LANDSCAPING PLANS

DANIEL SWEENEY (CLASS A TRUSTEE)  
ARTURO J. GUTIERREZ, JOHN A.  
CATALDO (CLASS B TRUSTEES)  
TAYLOR STREET, LITTLETON TRUST  
BK/PG 32096/213  
PARCEL #R10 6 0  
TAYLOR STREET

MIT OF WORK  
STA 205+00.00  
N3012961.1405  
E653254.4720

BEGINNING OF PROJECT  
PROJ. NO. 609054  
STA 0+00.00  
N3012786.8847  
E653296.9381

DANIEL SWEENEY (CLASS A TRUSTEE)  
ARTURO J. GUTIERREZ, JOHN A.  
CATALDO (CLASS B TRUSTEES)  
TAYLOR STREET, LITTLETON TRUST  
BK/PG 1008/125  
PLAN 1268 OF 1957  
PARCEL #R10 7 0  
225 TAYLOR STREET

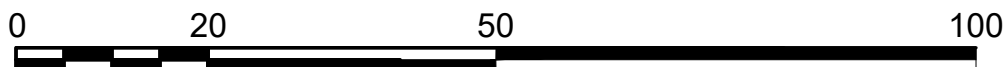
2641-2651 SANTA ANNA AVENUE, LLC  
BK/PG 68756/572  
PLAN NO 1425 OF 1981  
PARCEL #R10 2 1  
305 FOSTER STREET

JOHN K. GRADY, TRUSTEE OF THE  
FOSTER/TAYLOR REALTY TRUST  
BK/PG 25198/143  
PLAN NO 228 OF 1992  
PARCEL #R09 32 0  
230 TAYLOR STREET

JOHN K. GRADY & DAVID B. RICE, TRUSTEES OF  
CONCORD ASSOCIATES FOSTER STREET TRUST  
BK/PG 14680/362  
PLAN NO 1314 OF 1981  
PARCEL #R09 33 0  
300 FOSTER STREET

PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	HT.	QTY.	SIZE
TREES					
AR	ACER RUBRUM 'KARPICK'	KARPICK RED MAPLE	40'-50'	3	2"-2.5" CAL.
AG	AMELANCHIER X GRANDIFLORA 'ROBIN HILL'	ROBIN HILL SERVICEBERRY	15'-30'	3	1.5"-2" CAL. (SINGLE STEM)
QC	QUERCUS COCCINEA	SCARLET OAK	50'-70'	3	2"-2.5" CAL.



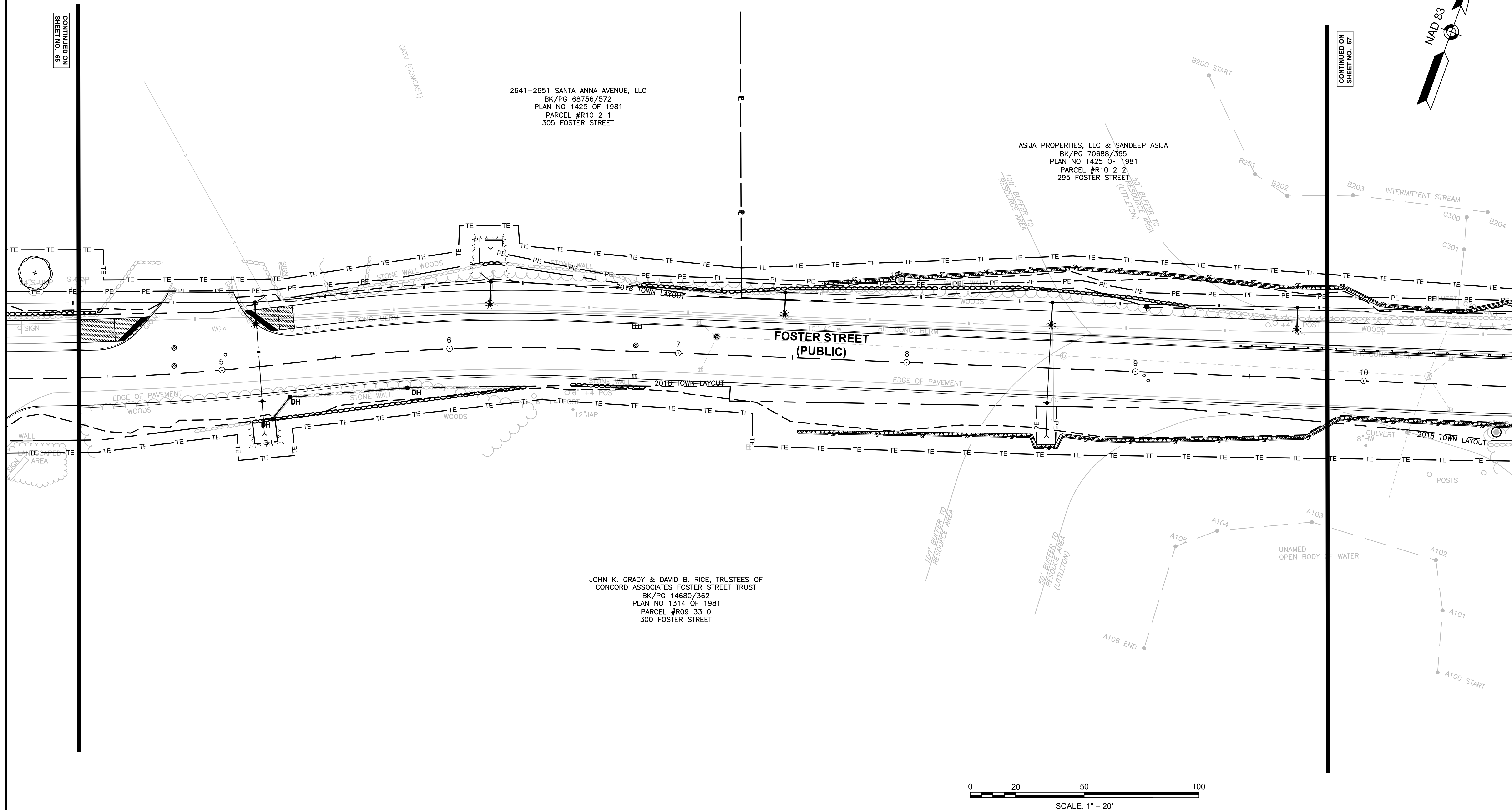
SCALE: 1" = 20'



LITTLETON  
RECONSTRUCTION OF FOSTER STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	66	128
PROJECT FILE NO.		609054	

LANDSCAPING PLANS





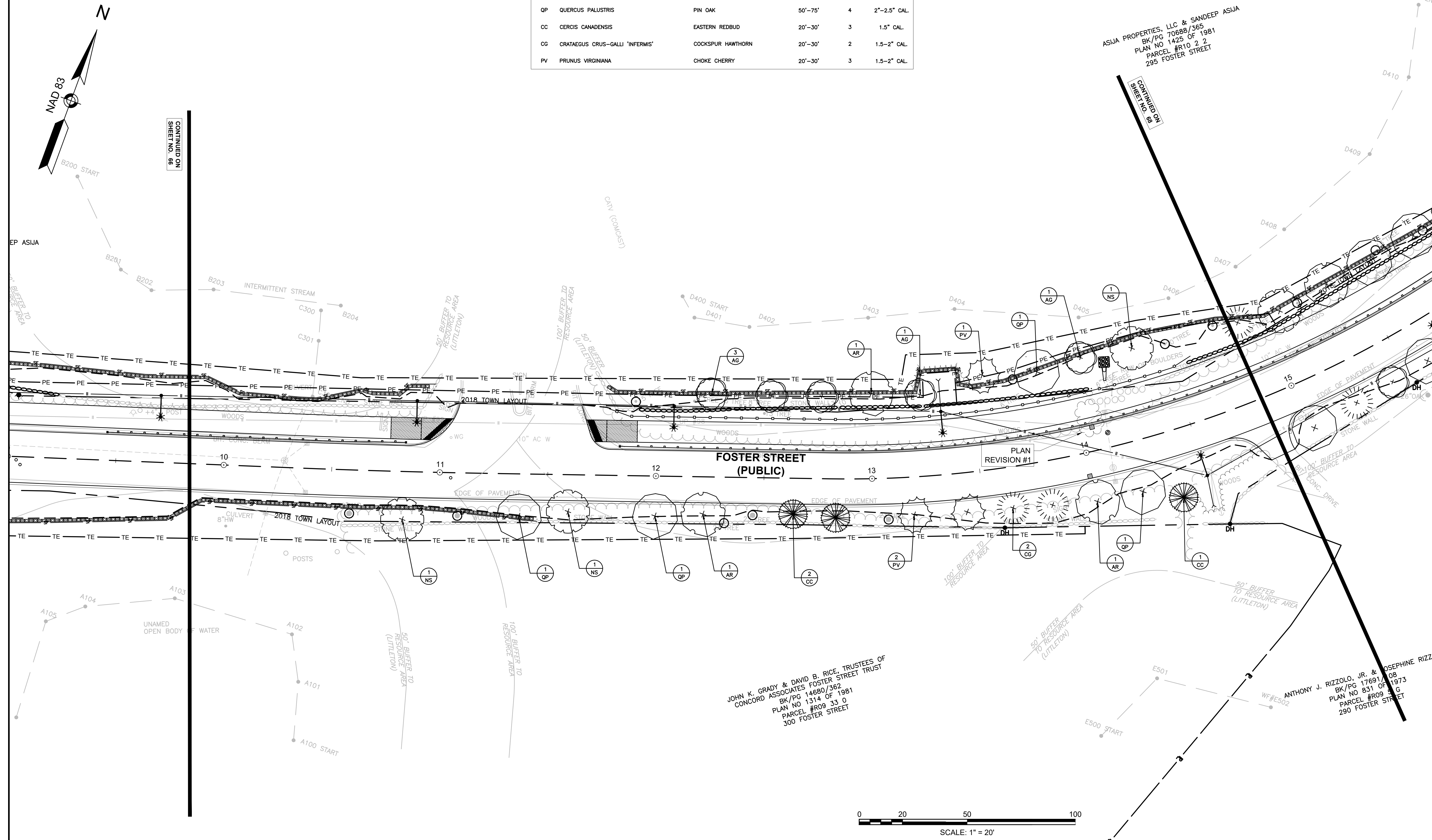
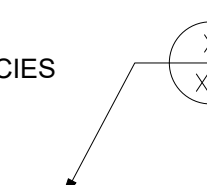
LITTLETON RECONSTRUCTION OF FOSTER STREET			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	67	128
PROJECT FILE NO.		609054	

## LANDSCAPING PLANS

PLANT LIST					
KEY	BOTANICAL NAME	COMMON NAME	HT.	QTY.	SIZE
<u>TREES</u>					
AR	ACER RUBRUM 'KARPICK'	KARPICK RED MAPLE	40"-50"	3	2"-2.5" CAL
AG	AMELANCHIER X GRANDIFLORA 'ROBIN HILL'	ROBIN HILL SERVICEBERRY	15'-30'	5	1.5"-2" CAL (SINGLE STE)
NS	NYSSA SYLVATICA	BLACK GUM	30'-60'	3	2"-2.5" CAL
QP	QUERCUS PALUSTRIS	PIN OAK	50"-75"	4	2"-2.5" CAL
CC	CERCIS CANADENSIS	EASTERN REDBUD	20"-30"	3	1.5" CAL.
CG	CRATAEGUS CRUS-GALLI 'INFERMIS'	COCKSPUR HAWTHORN	20"-30"	2	1.5-2" CAL
PV	PRUNUS VIRGINIANA	CHOKE CHERRY	20"-30"	3	1.5-2" CAL

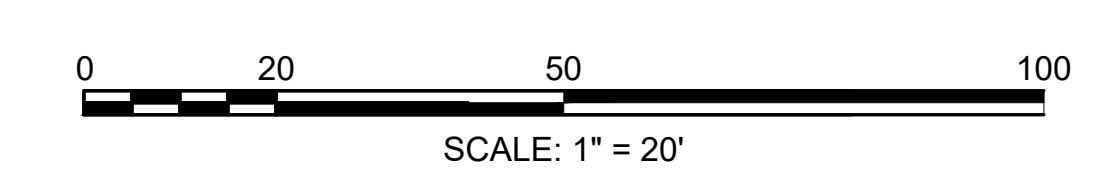
### LEGEND

#### PLANT QUANTITY AND SPECIES



JOHN K. GRADY & DAVID B. RICE, TRUSTEES OF  
CONCORD ASSOCIATES FOSTER STREET TRUST  
BK/PG 14680/362  
PLAN NO 1314 OF 1981  
PARCEL #R09 33 0  
300 FOSTER STREET

ANTHONY J. RIZZOLO, JR. & JOSEPHINE RIZZOLO  
BK/PG 176917-08  
PLAN NO 831 OF 1973  
PARCEL #R09 3 G  
290 FOSTER STREET





**LITTLETON  
RECONSTRUCTION OF FOSTER STREET**

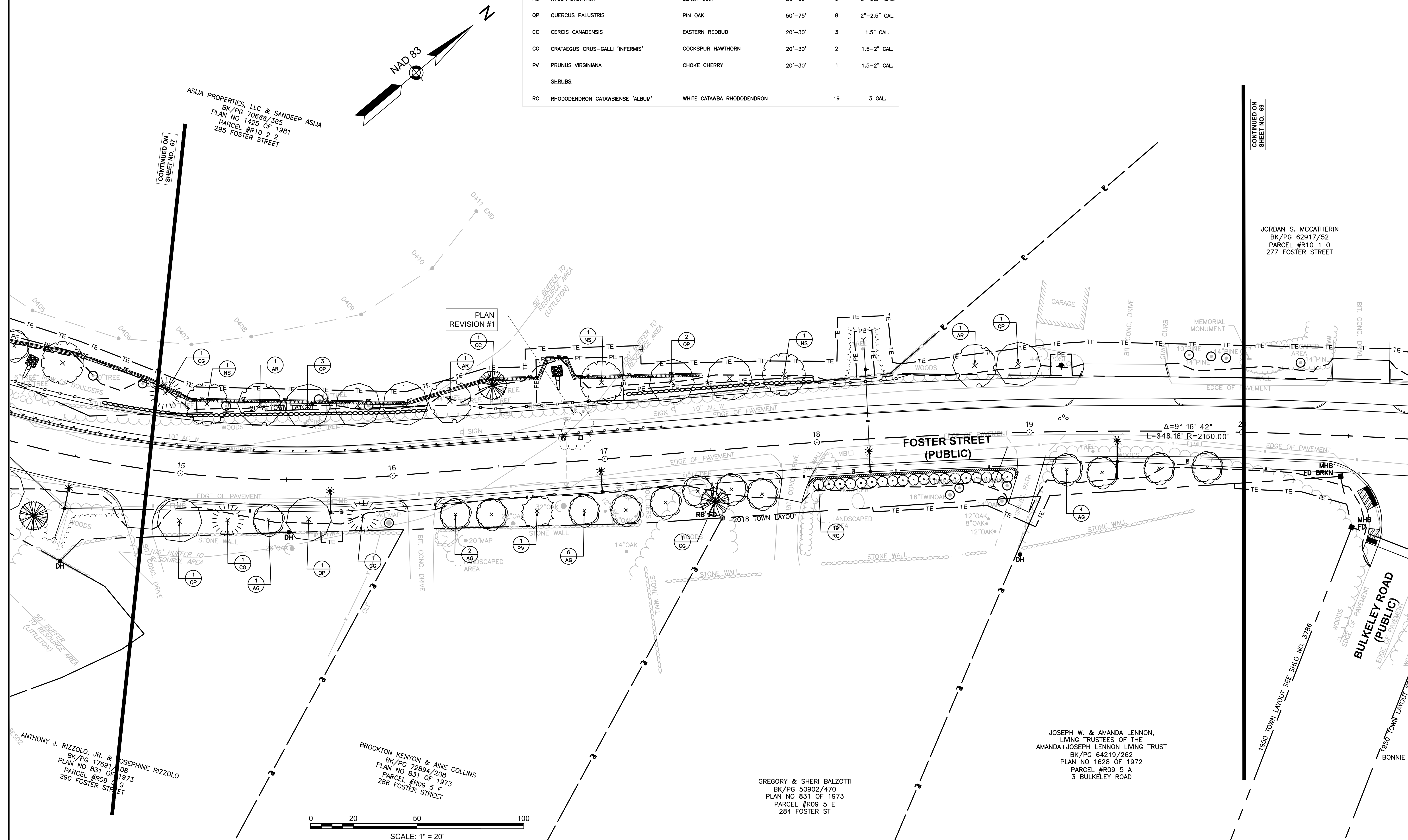
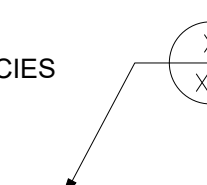
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEET
MA	STP/CMQ/TAP-0033(037)X	68	128
PROJECT FILE NO.		609054	

## LANDSCAPING PLANS

PLANT LIST					
KEY	BOTANICAL NAME	COMMON NAME	HT.	QTY.	SIZE
<u>TREES</u>					
AR	ACER RUBRUM 'KARPICK'	KARPICK RED MAPLE	40"-50"	3	2"-2.5" CAL
AG	AMELANCHIER X GRANDIFLORA 'ROBIN HILL'	ROBIN HILL SERVICEBERRY	15'-30'	13	1.5"-2" CAL (SINGLE STE)
NS	NYSSA SYLVATICA	BLACK GUM	30'-60'	3	2"-2.5" CAL
QP	QUERCUS PALUSTRIS	PIN OAK	50"-75"	8	2"-2.5" CAL
CC	CERCIS CANADENSIS	EASTERN REDBUD	20'-30'	3	1.5" CAL.
CG	CRATAEGUS CRUS-GALLI 'INFERMIS'	COCKSPUR HAWTHORN	20'-30'	2	1.5-2" CAL
PV	PRUNUS VIRGINIANA	CHOKE CHERRY	20"-30"	1	1.5-2" CAL
<u>SHRUBS</u>					
RC	RHODODENDRON CATAWBIENSE 'ALBUM'	WHITE CATAWA RHODODENDRON		19	3 GAL

### LEGEND

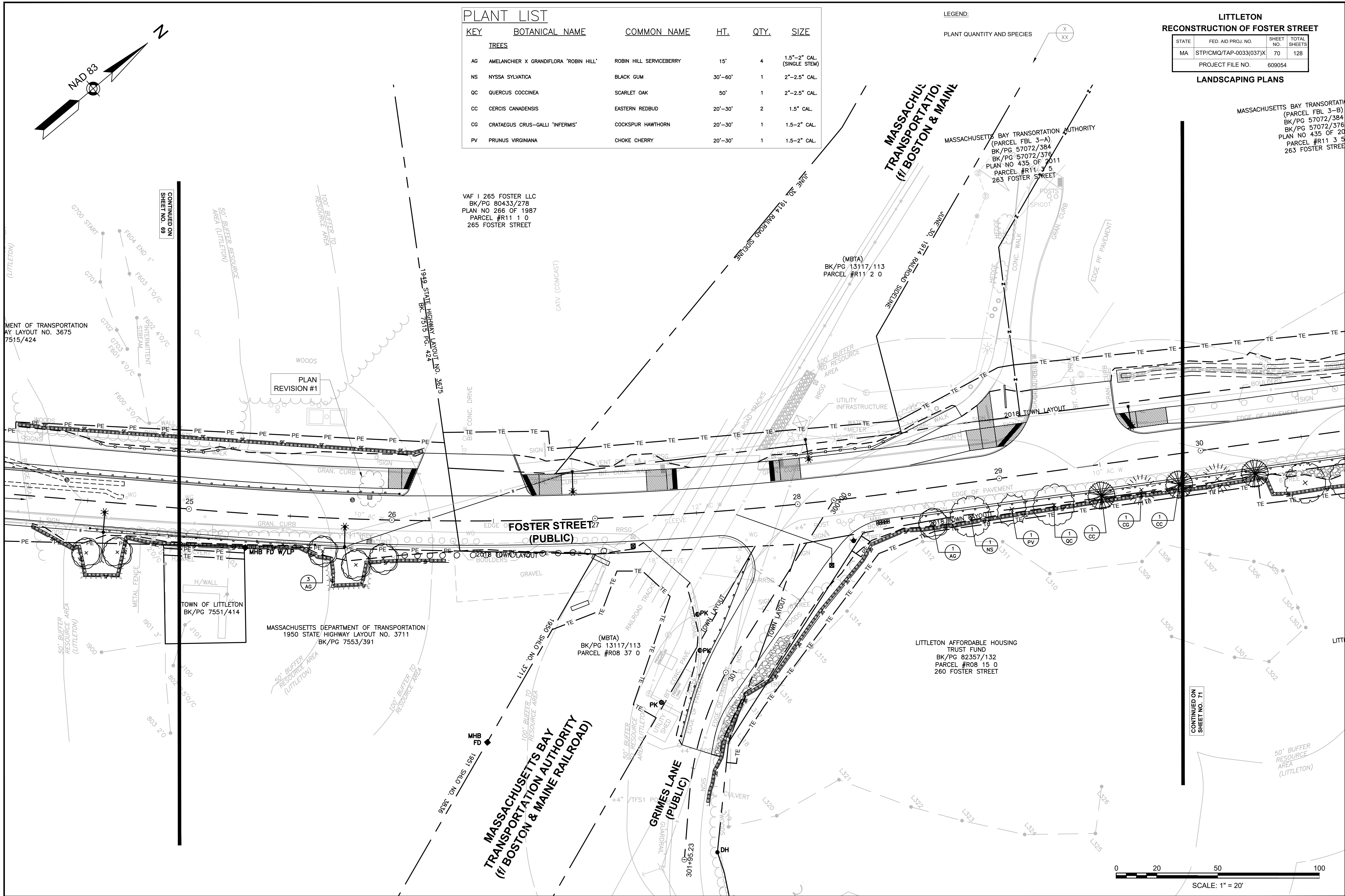
#### PLANT QUANTITY AND SPECIES











PLANT LIST					
KEY	BOTANICAL NAME	COMMON NAME	HT.	QTY.	SIZE
TREES					
AG	AMELANCHIER X GRANDIFLORA 'ROBIN HILL'	ROBIN HILL SERVICEBERRY	15'	4	1.5"-2" CAL (SINGLE STEM)
NS	NYSSA SYLVATICA	BLACK GUM	30'-60'	1	2"-2.5" CAL
QC	QUERCUS COCCINEA	SCARLET OAK	50'	1	2"-2.5" CAL
CC	CERCIS CANADENSIS	EASTERN REDBUD	20'-30'	2	1.5" CAL
CG	CRATAEGUS CRUS-GALLI 'INFERMIS'	COCKSPUR HAWTHORN	20'-30'	1	1.5-2" CAL
PV	PRUNUS VIRGINIANA	CHOKE CHERRY	20'-30'	1	1.5-2" CAL

LEGEND:

PLANT QUANTITY AND SPECIES

X  
XX

LITTLETON  
RECONSTRUCTION OF FOSTER STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	70	128
PROJECT FILE NO.		609054	

LANDSCAPING PLANS

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY  
(PARCEL FBL 3-B)  
BK/PG 57072/384  
BK/PG 57072/376  
PLAN NO 435 OF 2011  
PARCEL #R11 3 5  
263 FOSTER STREET

CONTINUED ON  
SHEET NO. 71

0 20 50 100  
SCALE: 1" = 20'



PLANT LIST					
KEY	BOTANICAL NAME	COMMON NAME	HT.	QTY.	SIZE
TREES					
NS	NYSSA SYLVATICA	BLACK GUM	30'-60'	1	2"-2.5" CAL.
QC	QUERCUS COCCINEA	SCARLET OAK	50'-70'	1	2"-2.5" CAL.
CC	CERCIS CANADENSIS	EASTERN REDBUD	20'-30'	2	1.5" CAL.
CG	CRATAEGUS CRUS-GALLI 'INFERMIS'	COCKSPUR HAWTHORN	20'-30'	2	1.5-2" CAL.
PV	PRUNUS VIRGINIANA	CHOKE CHERRY	20'-30'	1	1.5-2" CAL.

LEGEND:  
PLANT QUANTITY AND SPECIES

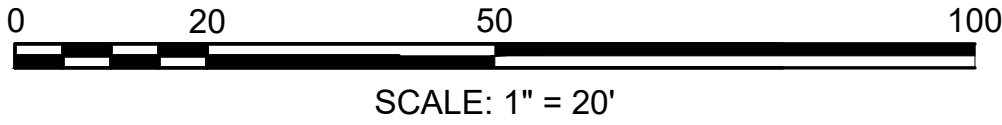
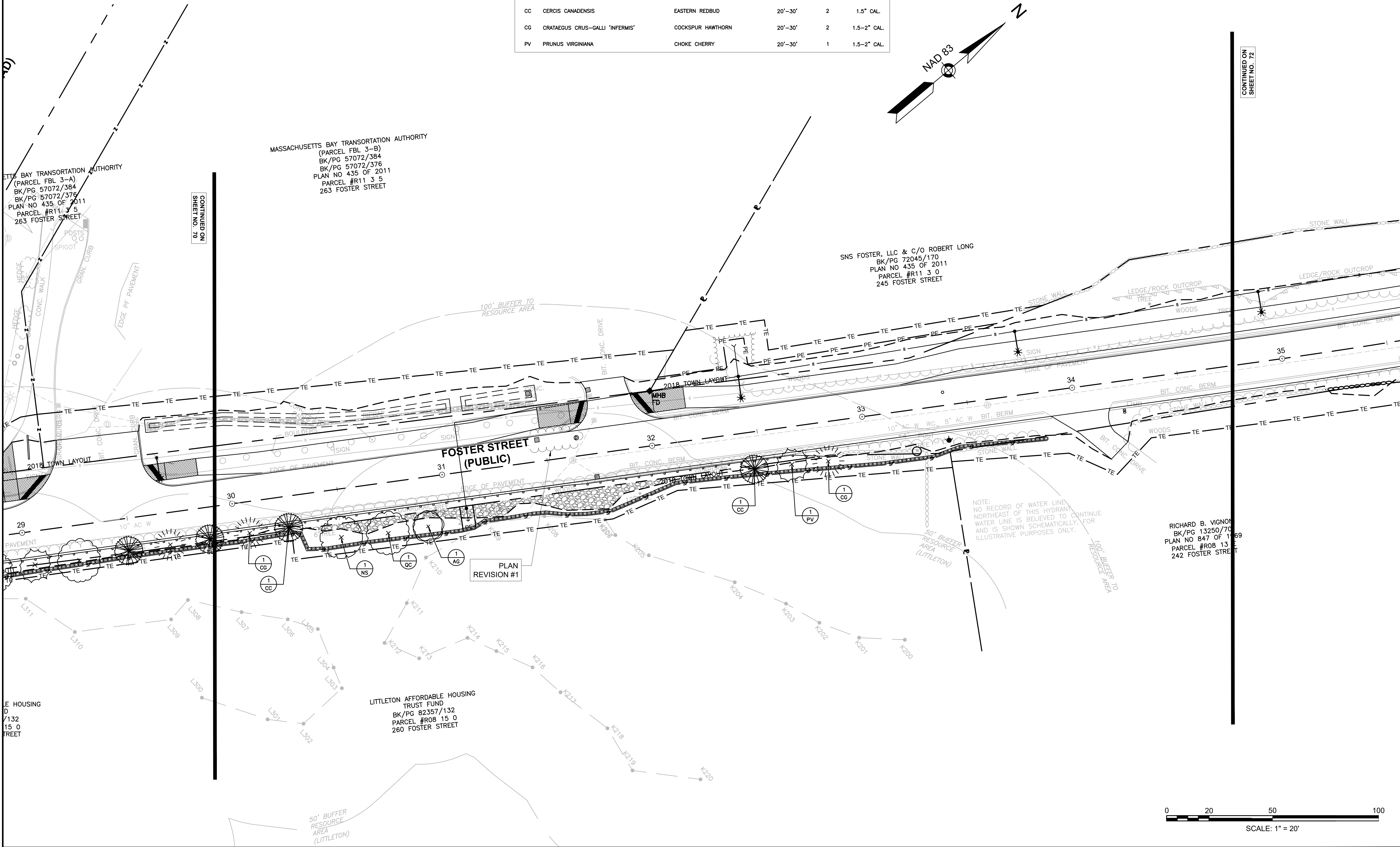
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XX

LITTLETON  
RECONSTRUCTION OF FOSTER STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	71	128
PROJECT FILE NO.		609054	

LANDSCAPING PLANS





PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	HT.	QTY.	SIZE
TREES					
AG	AMELANCHIER X GRANDIFLORA 'ROBIN HILL'	ROBIN HILL SERVICEBERRY	15'	3	1.5"-2" CAL. (SINGLE STEM)

LITTLETON  
RECONSTRUCTION OF FOSTER STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	72	128
PROJECT FILE NO.		609054	

LANDSCAPING PLANS

PATRICIA A. NARGIZIAN  
BK/PG 70735/467  
PARCEL #R11 5 4  
237 FOSTER STREET

END OF PROJECT  
PROJ. NO. 609054  
STA. 39+36.15  
N 3015278.1762  
E 656130.7752

SNS FOSTER, LLC & C/O ROBERT LONG  
BK/PG 72045/170  
PLAN NO 435 OF 2011  
PARCEL #R11 3 0  
245 FOSTER STREET

PLAN  
REVISION #1

FOSTER STREET  
(PUBLIC)

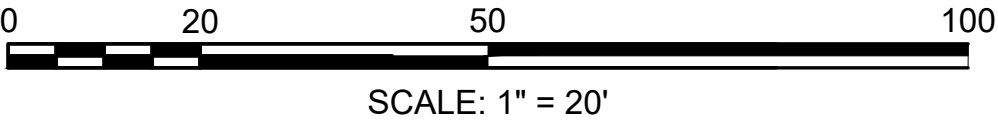
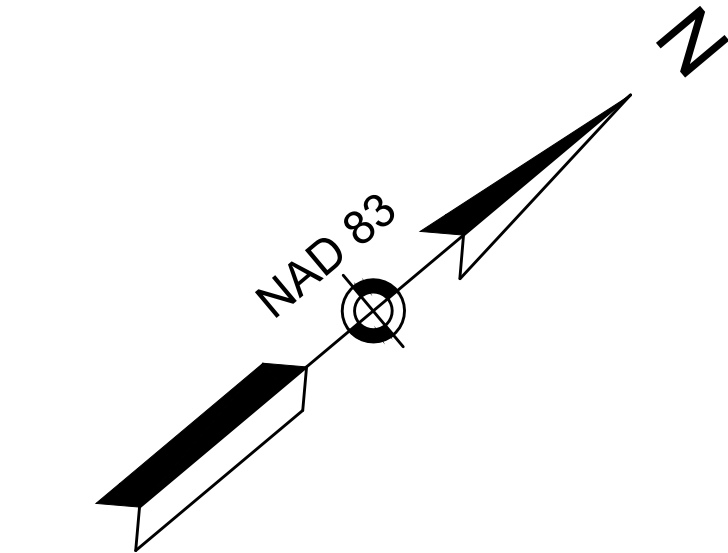
BALSAM LANE  
(PUBLIC)

QUINN E. & JENNIFER A. CANFIELD  
BK/PG 55588/290  
PLAN NO 188 OF 1971  
PARCEL #R08 13 D  
238 FOSTER STREET

NOTE:  
NO RECORD OF WATER LINE  
CONFIGURATION IN THIS AREA.  
WATER LINE IS SHOWN SCHEMATICALLY  
FOR ILLUSTRATIVE PURPOSES ONLY.

RICHARD B. VIGNONI  
BK/PG 13250/70  
PLAN NO 847 OF 1969  
PARCEL #R08 13 E  
242 FOSTER STREET

RICHARD B. VIGNONI  
BK/PG 13250/70  
PLAN NO 847 OF 1969  
PARCEL #R08 13 E  
242 FOSTER STREET

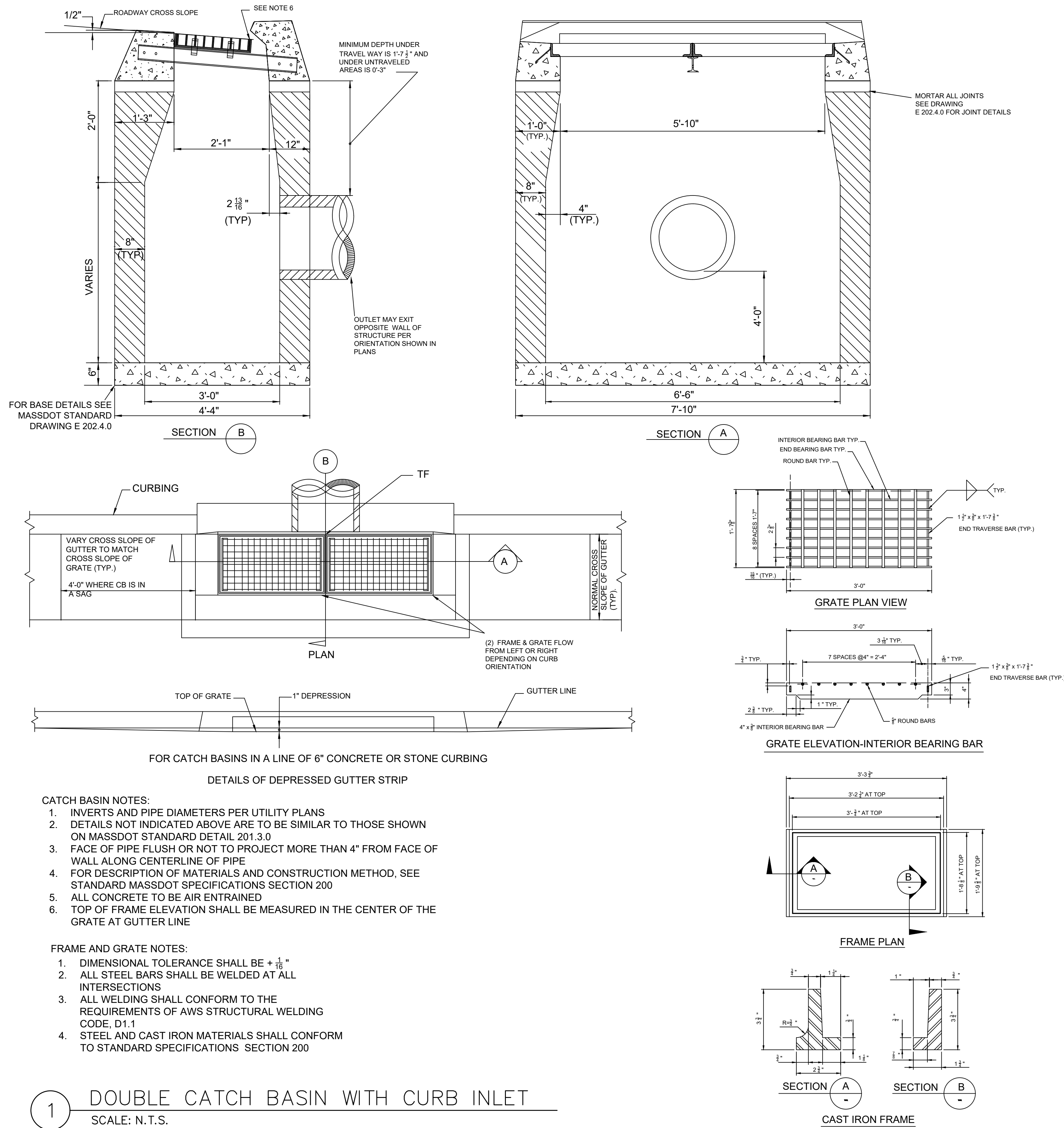




LITTLETON  
RECONSTRUCTION OF FOSTER STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	73	128
PROJECT FILE NO.		609054	

DRAINAGE & UTILITY DETAILS



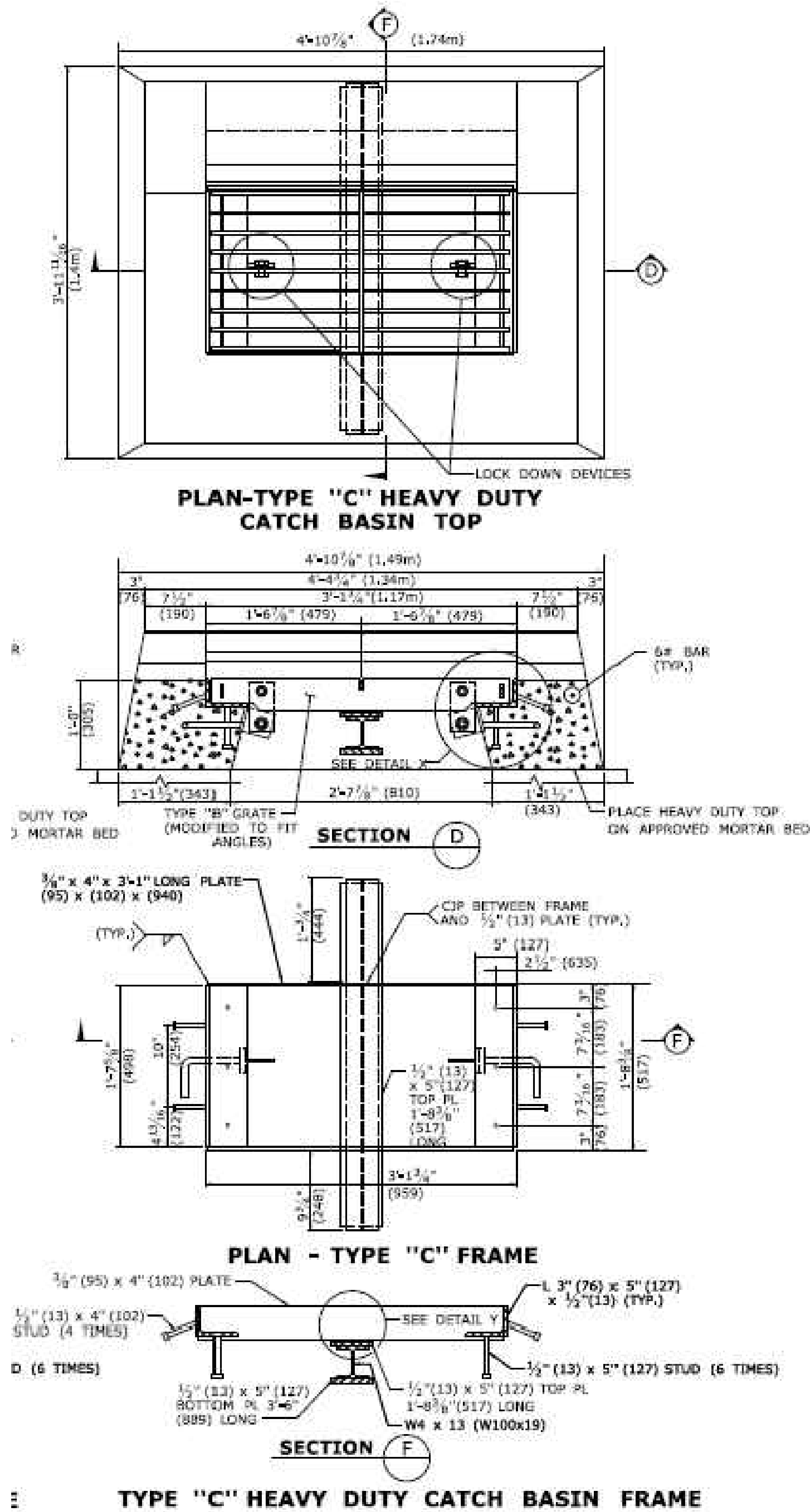
1 DOUBLE CATCH BASIN WITH CURB INLET  
SCALE: N.T.S.



LITTLETON  
RECONSTRUCTION OF FOSTER STREET

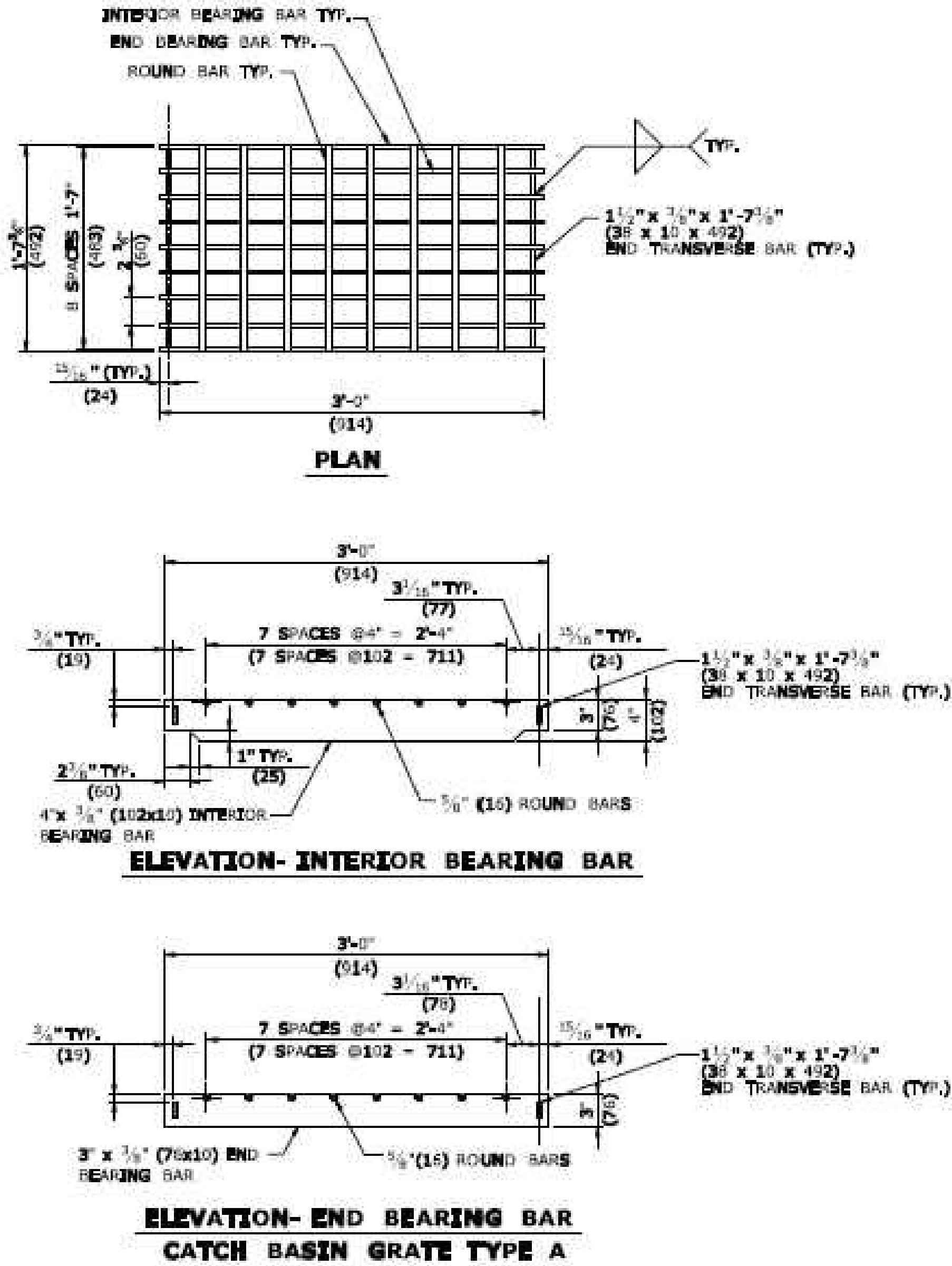
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	74	128
PROJECT FILE NO.		609054	

DRAINAGE & UTILITY DETAILS

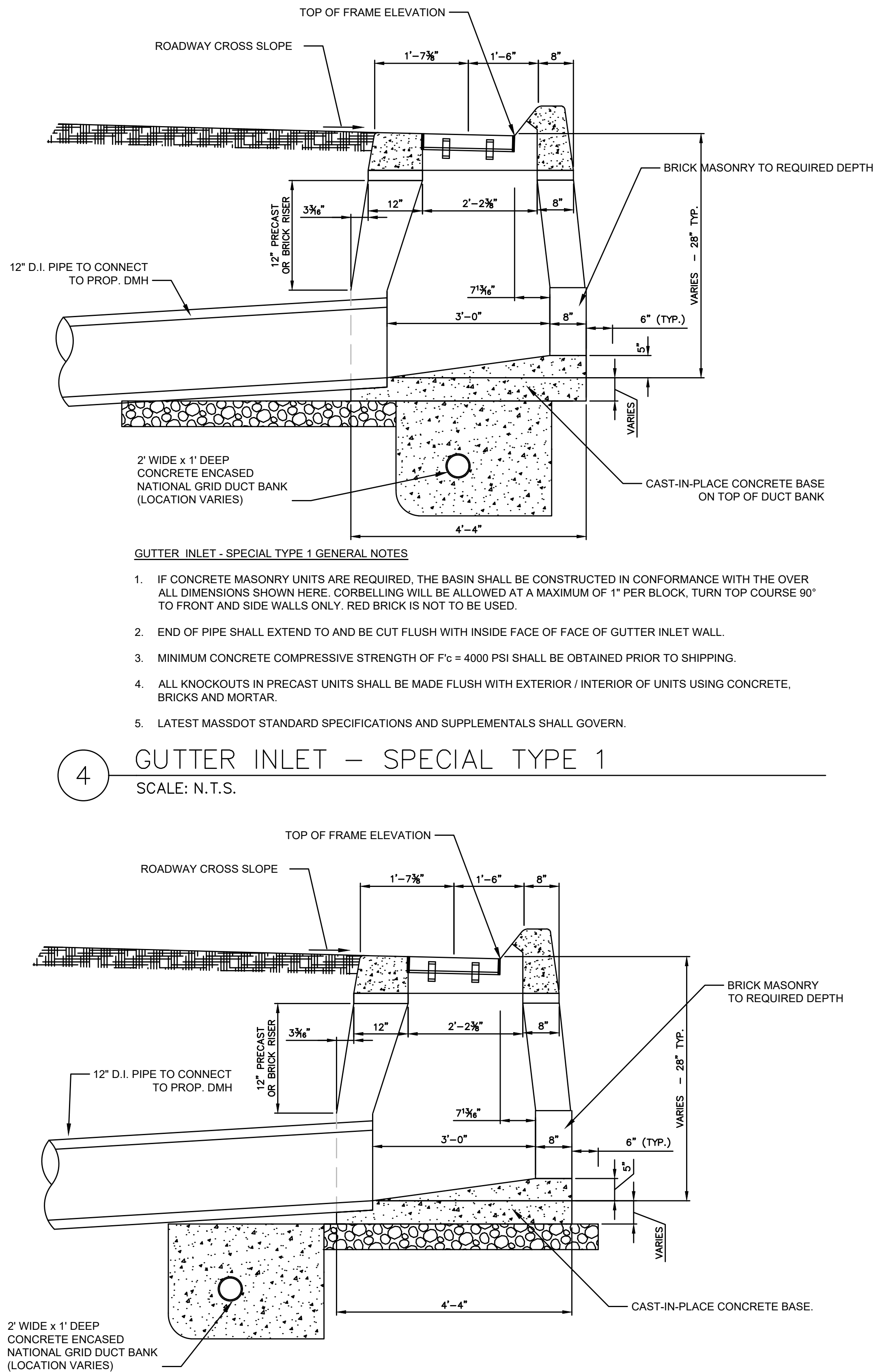


TYPE "C" HEAVY DUTY CATCH BASIN FRAME

2 DOUBLE CATCH BASIN FRAME  
SCALE: N.T.S.



3 DOUBLE CATCH BASIN GRATE  
SCALE: N.T.S.



5 GUTTER INLET - SPECIAL TYPE 2  
SCALE: N.T.S.



DANIEL SWEENEY (CLASS A TRUSTEE)  
ARTURO J. GUTIERREZ, JOHN A.  
CATALDO (CLASS B TRUSTEES)  
TAYLOR STREET, LITTLETON TRUST  
BK/PG 32096/213  
PARCEL #R10 6 0  
TAYLOR STREET

BEGINNING OF PROJECT  
PROJ. NO. 609054  
STA 0+00.00  
N3012786.8847  
E653296.9381

DANIEL SWEENEY (CLASS A TRUSTEE)  
ARTURO J. GUTIERREZ, JOHN A.  
CATALDO (CLASS B TRUSTEES)  
TAYLOR STREET, LITTLETON TRUST  
BK/PG 32096/215  
PLAN 1268 OF 1957  
PARCEL #R10 7 0  
225 TAYLOR STREET

LIMIT OF WORK  
STA 205+00.00  
N3012961.1405  
E653254.4720

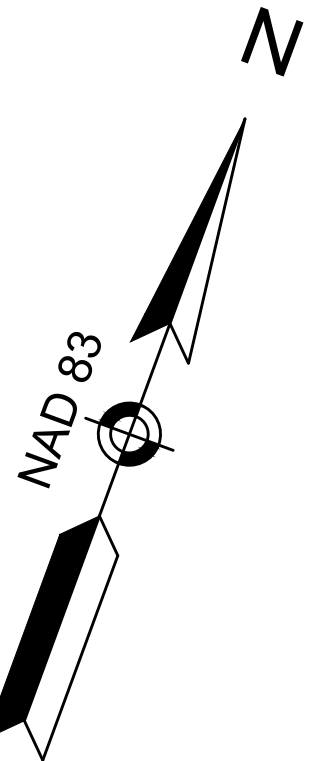
ENVIRONMENTAL PLANS LEGEND

- EXISTING TREE LINE
- PROPOSED TREE LINE
- BORDERING VEGETATED WETLANDS
- BANK/LAND UNDER WATER
- 100FT BUFFER from BVW or BANK
- 50FT NO DISTURB LIMIT from BVW or BANK
- EROSION CONTROLS
- LIMIT OF WORK

- PERM IMPACT TO BUFFER ZONE
- TEMP IMPACT TO BUFFER ZONE
- PERM IMPACT TO 50-FT NO DISTURB
- TEMP IMPACT TO 50-FT NO DISTURB
- IMPERVIOUS REMOVED FROM 50-FT NO DISTURB
- IMPERVIOUS REMOVED FROM BUFFER ZONE

2641-2651 SANTA ANNA AVENUE, LLC  
BK/PG 68756/572  
PLAN NO 1425 OF 1981  
PARCEL #R10 2 1  
305 FOSTER STREET

CONTINUED ON  
SHEET NO. 10



STA 203+20.63 ALIGN TAYLOR  
STA 0+00.00 ALIGN FOSTER  
IN 3012786.8847 E 653296.9381

FOSTER STREET  
(PUBLIC)  
N 70° 36' 10" E 403.30'

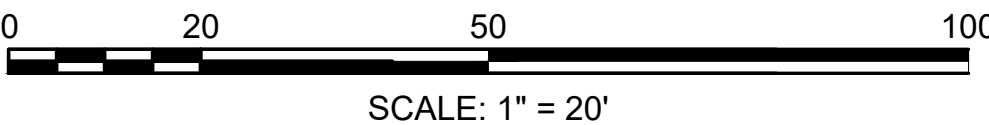
JOHN K. GRADY, TRUSTEE OF THE  
FOSTER/TAYLOR REALTY TRUST  
BK/PG 25198/143  
PLAN NO 228 OF 1992  
PARCEL #R09 32 0  
230 TAYLOR STREET

JOHN K. GRADY & DAVID B. RICE, TRUSTEES OF  
CONCORD ASSOCIATES FOSTER STREET TRUST  
BK/PG 14680/362  
PLAN NO 1314 OF 1981  
PARCEL #R09 33 0  
300 FOSTER STREET

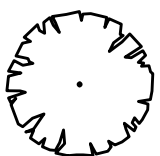
PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	HT.	QTY.	SIZE
TREES					
AC	ACER RUBRUM	MAPLE-RED-"OCTOBER GLORY"	50	5	2"-2.5" CAL.

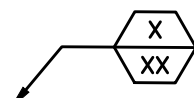
FOR PROFILE: SEE SHEET NO. 17



PLANTING  
LEGEND



PROPOSED TREE PLANTING




PLANT QUANTITY AND SPECIES

UPL 111



EXISTING TREE LINE  
 PROPOSED TREE LINE  
 BORDERING VEGETATED WETLANDS  
 BANK/LAND UNDER WATER  
 100FT BUFFER from BVW or BANK  
 50FT NO DISTURB LIMIT from BVW or BANK  
 EROSION CONTROLS  
 LIMIT OF WORK



STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	E2	128
PROJECT FILE NO.		609054	

CONTINUED ON  
SHEET NO. 9

CONTINUED ON  
SHEET NO. 11



# ENVIRONMENTAL PLANS LEGEND

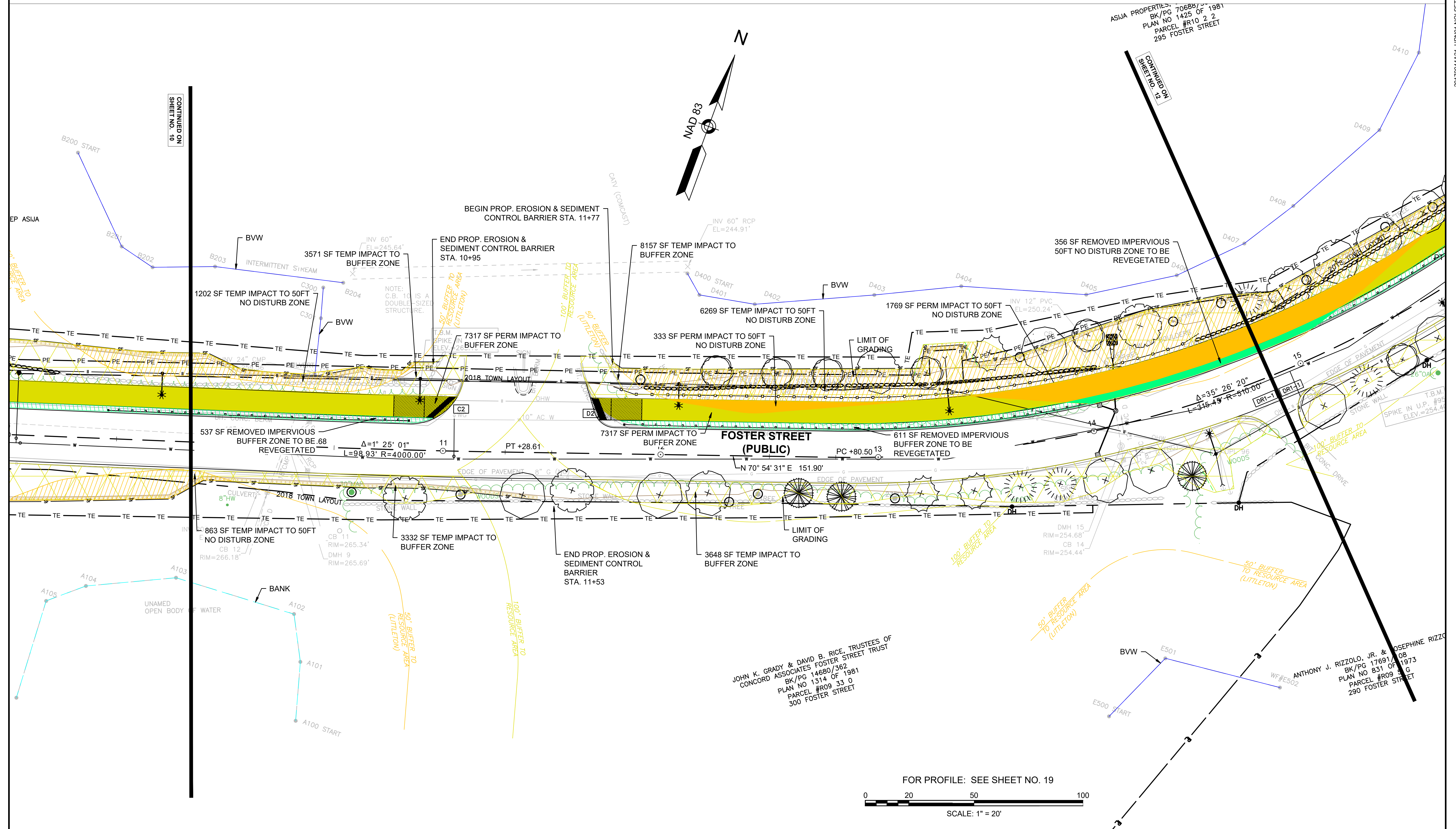
	EXISTING TREE LINE		PERM IMPACT TO BUFFER ZONE
	PROPOSED TREE LINE		TEMP IMPACT TO BUFFER ZONE
	BORDERING VEGETATED WETLANDS		PERM IMPACT TO 50-FT NO DISTURB
	BANK/LAND UNDER WATER		TEMP IMPACT TO 50-FT NO DISTURB
	100FT BUFFER from BVW or BANK		IMPERVIOUS REMOVED FROM 50-FT NO DISTURB
	50FT NO DISTURB LIMIT from BVW or BANK		IMPERVIOUS REMOVED FROM BUFFER ZONE
	EROSION CONTROLS		
	LIMIT OF WORK		

**LITTLETON**

**RECONSTRUCTION OF FOSTER STREET**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	E3	128
PROJECT FILE NO.		609054	

**ENVIRONMENTAL PLANS**





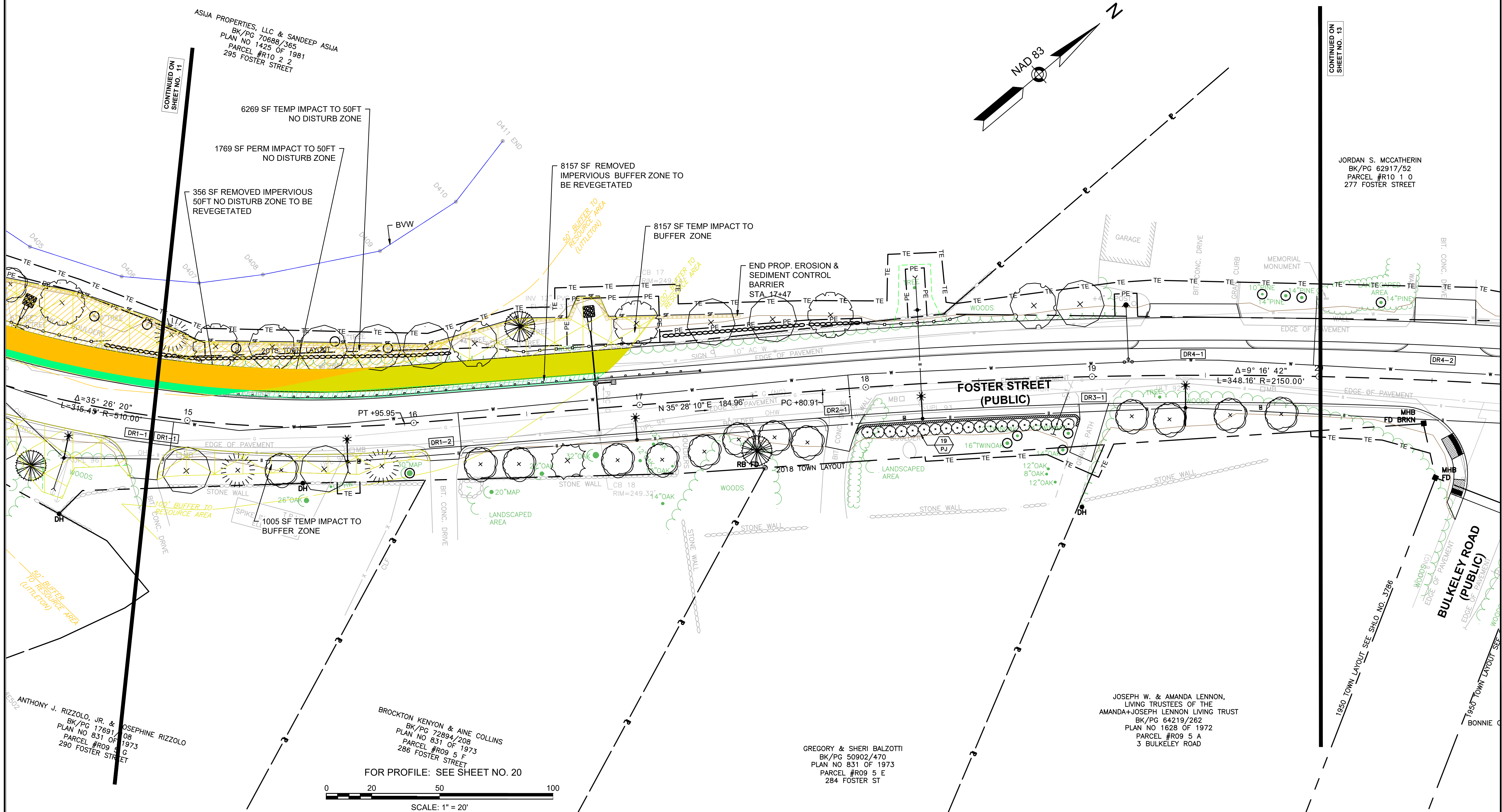
ENVIRONMENTAL PLANS LEGEND

- EXISTING TREE LINE  
PROPOSED TREE LINE  
BORDERING VEGETATED WETLANDS  
BANK/LAND UNDER WATER  
100FT BUFFER from BVW or BANK  
50FT NO DISTURB LIMIT from BVW or BANK  
EROSION CONTROLS  
LIMIT OF WORK
- PERM IMPACT TO BUFFER ZONE  
TEMP IMPACT TO BUFFER ZONE  
PERM IMPACT TO 50-FT NO DISTURB  
TEMP IMPACT TO 50-FT NO DISTURB  
IMPERVIOUS REMOVED FROM 50-FT NO DISTURB  
IMPERVIOUS REMOVED FROM BUFFER ZONE

LITTLETON  
RECONSTRUCTION OF FOSTER STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	E4	128
PROJECT FILE NO.		609054	

ENVIRONMENTAL PLANS





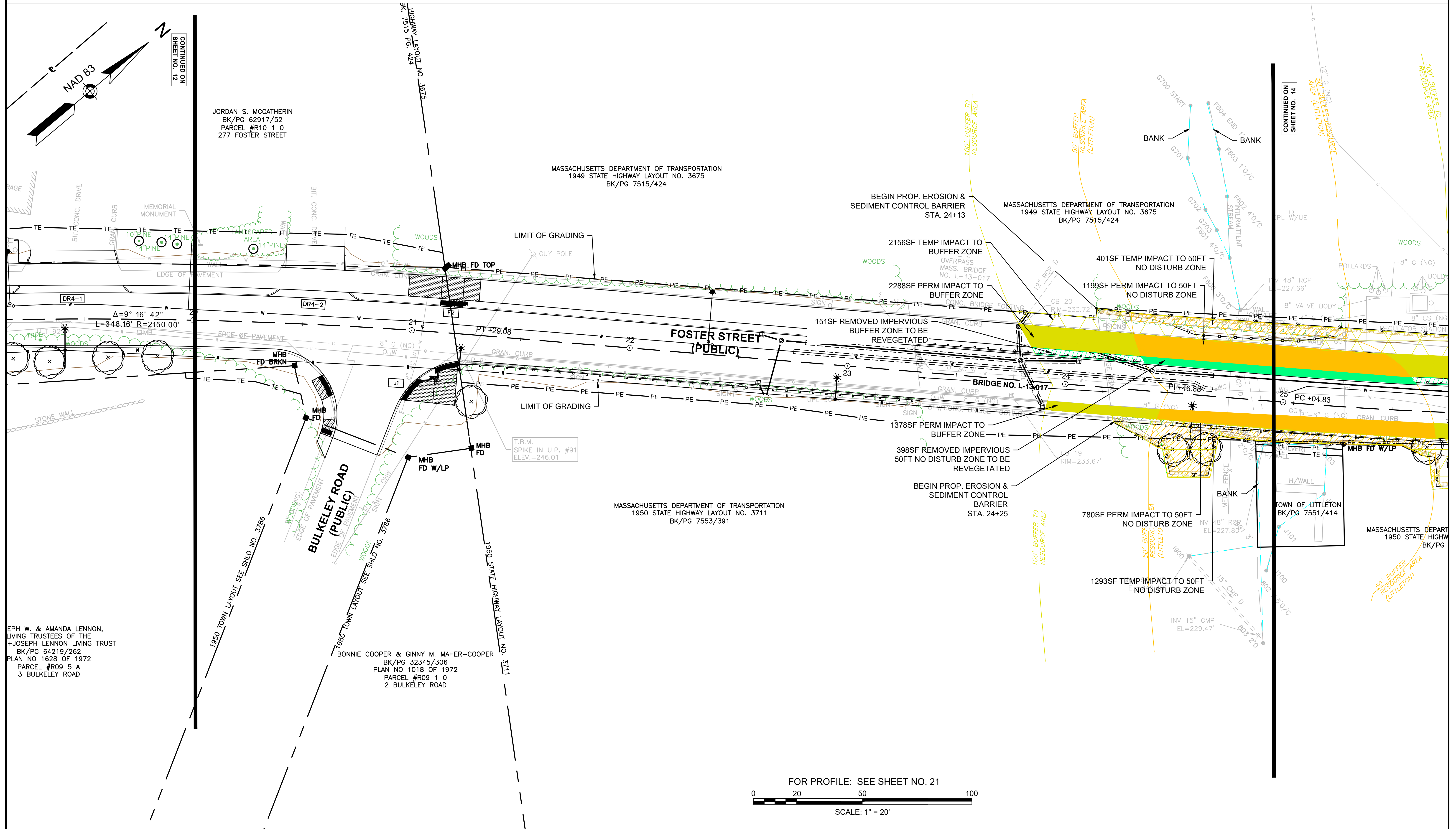
# ENVIRONMENTAL PLANS LEGEND

- EXISTING TREE LINE
- PROPOSED TREE LINE
- BORDERING VEGETATED WETLANDS
- BANK/LAND UNDER WATER
- 100FT BUFFER from BVW or BANK
- 50FT NO DISTURB LIMIT from BVW or BANK
- EROSION CONTROLS
- LIMIT OF WORK
- PERM IMPACT TO BUFFER ZONE
- TEMP IMPACT TO BUFFER ZONE
- PERM IMPACT TO 50-FT NO DISTURB
- TEMP IMPACT TO 50-FT NO DISTURB
- IMPERVIOUS REMOVED FROM 50-FT NO DISTURB
- IMPERVIOUS REMOVED FROM BUFFER ZONE

## LITTLETON RECONSTRUCTION OF FOSTER STREET







STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	E5	128
PROJECT FILE NO. 609054			

## ENVIRONMENTAL PLANS





EXISTING TREE LINE  
 PROPOSED TREE LINE  
 BORDERING VEGETATED WETLANDS  
 BANK/LAND UNDER WATER  
 100FT BUFFER from BVW or BANK  
 50FT NO DISTURB LIMIT from BVW or BANK  
 EROSION CONTROLS  
 LIMIT OF WORK

	PERM IMPACT TO BUFFER ZONE
	TEMP IMPACT TO BUFFER ZONE
	PERM IMPACT TO 50-FT NO DISTURB
	TEMP IMPACT TO 50-FT NO DISTURB
	IMPERVIOUS REMOVED FROM 50-FT NO DISTURB
	IMPERVIOUS REMOVED FROM BUFFER ZONE

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	E6	128
PROJECT FILE NO.		609054	

[illegible]

SCALE: 1" = 20'



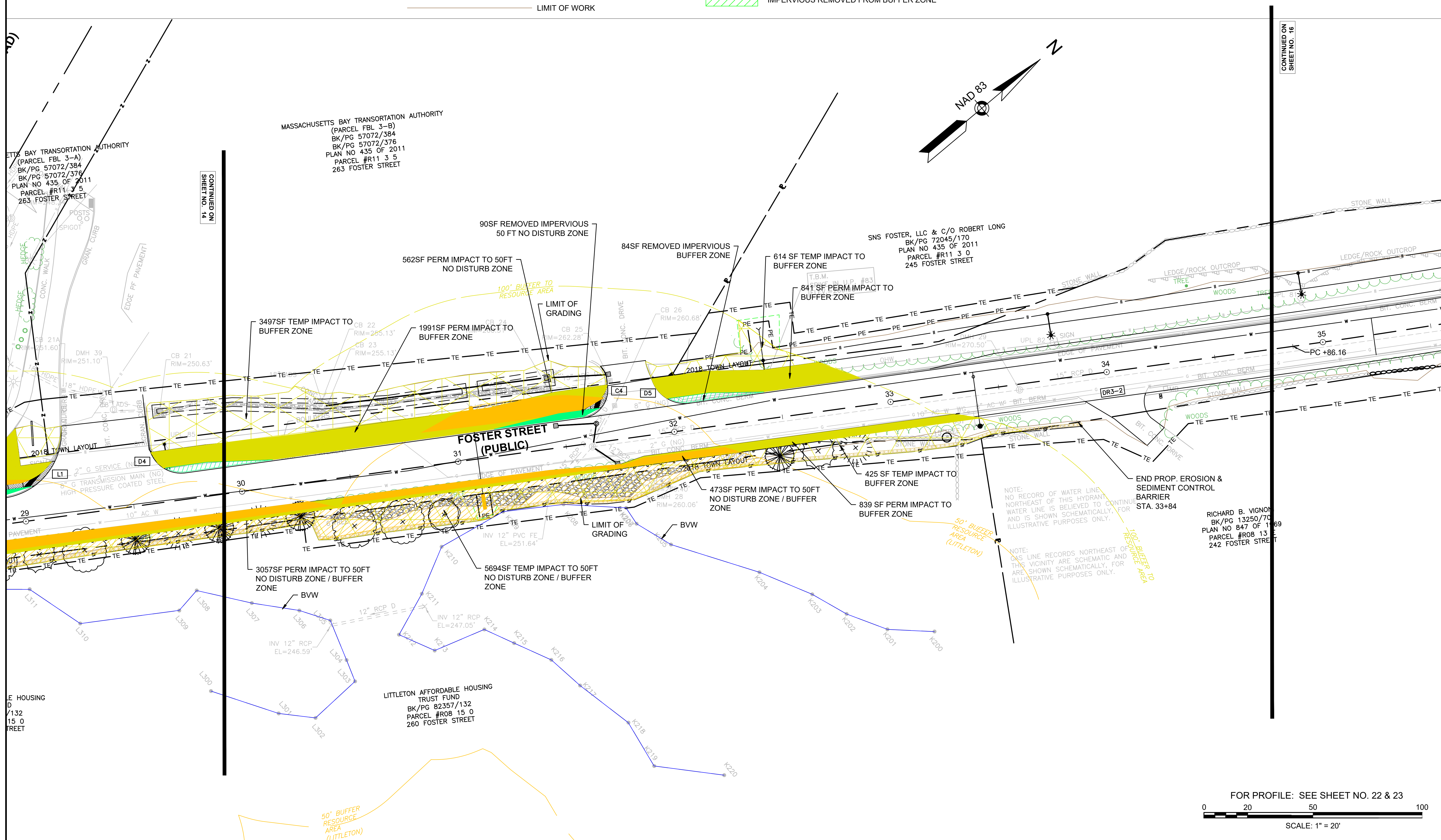
# ENVIRONMENTAL PLANS LEGEND

- EXISTING TREE LINE
- PROPOSED TREE LINE
- BORDERING VEGETATED WETLANDS
- BANK/LAND UNDER WATER
- 100FT BUFFER from BVW or BANK
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- LIMIT OF WORK
- PERM IMPACT TO BUFFER ZONE
- TEMP IMPACT TO BUFFER ZONE
- PERM IMPACT TO 50-FT NO DISTURB
- TEMP IMPACT TO 50-FT NO DISTURB
- IMPERVIOUS REMOVED FROM 50-FT NO DISTURB
- IMPERVIOUS REMOVED FROM BUFFER ZONE

## LITTLETON RECONSTRUCTION OF FOSTER STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	E7	128
PROJECT FILE NO.		609054	

## ENVIRONMENTAL PLANS



FOR PROFILE: SEE SHEET NO. 22 & 23  
SCALE: 1" = 20'



ENVIRONMENTAL PLANS LEGEND

EXISTING TREE LINE

PROPOSED TREE LINE

BORDERING VEGETATED WETLANDS

BANK/LAND UNDER WATER

100FT BUFFER from BVW or BANK

50FT NO DISTURB LIMIT from BVW or BANK

EROSION CONTROLS

LIMIT OF WORK

PERM IMPACT TO BUFFER ZONE

TEMP IMPACT TO BUFFER ZONE

PERM IMPACT TO 50-FT NO DISTURB

TEMP IMPACT TO 50-FT NO DISTURB

IMPERVIOUS REMOVED FROM 50-FT NO DISTURB

IMPERVIOUS REMOVED FROM BUFFER ZONE

LITTLETON

RECONSTRUCTION OF FOSTER STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0033(037)X	E8	128
PROJECT FILE NO. 609054			

ENVIRONMENTAL PLANS

The plan view shows Foster Street (Public) running horizontally across the middle. To the north (top) are property parcels owned by SNS FOSTER, LLC & C/O ROBERT LONG (Parcel #R11 3 0, 245 FOSTER STREET) and PATRICIA A. NARGIZIAN (Parcel #R11 5 4, 237 FOSTER STREET). To the south (bottom) is a parcel owned by RICHARD B. VIGNONI (Parcel #R08 13 E, 242 FOSTER STREET). The plan includes various features: stone walls, ledges/rock outcrops, trees (e.g., 14" PINE, 26" PINE), woods, and landscaped areas. Engineering notes include: 'NOTE: C.B. #32 IS A DOUBLE-SIZED STRUCTURE.', 'NOTE: NO RECORD OF WATER LINE CONFIGURATION IN THIS AREA. WATER LINE IS SHOWN SCHEMATICALLY, FOR ILLUSTRATIVE PURPOSES ONLY.', and 'NOTE: GAS LINE RECORDS IN THIS AREA ARE SCHEMATIC AND ARE SHOWN SCHEMATICALLY, FOR ILLUSTRATIVE PURPOSES ONLY.' Stationing markers like PC+86.16, PT+90.37, PC+06.15, and PT+11.89 are shown. A north arrow points towards the top right, labeled 'NAD 83'. A scale bar at the bottom right indicates 0, 20, 50, and 100 feet, with a scale of 1" = 20'. A reference to 'FOR PROFILE: SEE SHEET NO. 23' is also present.

2017004421\_HFN01 NOI SET.DWG  
Plotted on: 29-Apr-2025 3:21 PM



## Abutter's Notification Letter and Abutter's List



## NOTIFICATION TO ABUTTERS

Pick one:

- ☐ Notice of Intent/Abbreviated NOI
- ☐ Abbreviated Notice of Resource Area Delineation
- ☐ Request for Determination of Applicability
- ☒ Request to Amend an Order of Conditions (MADEP File # 204-0991)

### Modification for Virtual Meetings

*Under MA Wetlands Protection Act and Littleton Wetlands Protection ByLaw (Chapter 171), this form must be completed and mailed, certified mail return receipt requested, to all abutters at their mailing addresses shown on the most recent Town Assessor's records as well as the owner (if not applicant).*

In accordance with the MA Wetlands Protection Act and Littleton Wetlands Protection ByLaw Chapter 171-2D, you are hereby notified of a public hearing on the matter described below:

- A. The applicant has filed a permit application with the Littleton Conservation Commission for work in an area subject to protection under the Massachusetts Wetlands Protection Act and Littleton Wetlands Protection ByLaw.
- B. The name of the applicant is Stephen Jahnle, Town of Littleton Director of the Department of Public Works
- C. The address of the land where the activity is proposed is The Reconstruction of Foster Street  
Foster Street: from Taylor Street to Balsam Lane  
Taylor Street: at the intersection at Foster Street  
Grimes Lane: at the intersection at Foster Street
- D. The work proposed is This request for an amendment to the Order of Conditions for project DEP 204-0991 is for the proposed targeted application of herbicide treatment to invasive plant species within the project limits and a reduction in the proposed number of underground leaching catch basin structures from 5 to 1 due to the discovery of high seasonal groundwater elevation.
- E. Copies of the filing may be examined at the Conservation Commission office at 37 Shattuck Street Monday through Thursday; 9:00 – 1:00 (please call first to ensure the Conservation Agent is available and not out on site visits). The office phone number is 978-540-2428.
- F. Copies of the filing may be obtained electronically from (check one) the ☐ applicant or ☒ the applicant's representative by calling 413-333-5461 during the following times: M-F, 9am-12pm, 1pm-5pm. Fuss & O'Neill, Inc.



- G. The public hearing/meeting will be held on 05/13/2025. Information regarding the date and time of the public hearing/meeting may be obtained from the Littleton Conservation Commission (see contact info at the end of this notice).
- H. Notice of the public hearing/meeting, including date and time will be published at least five business days in advance in a paper of local circulation. The agenda, noting times will be posted at Town Hall and at <https://ma-littleton.civicplus.com/AgendaCenter/Search/?term=&CIDs=13,&startDate=&endDate=&dateRange=&dateSelector=> at least 48 hours in advance of the meeting. It is currently anticipated that this meeting will be held entirely remotely, pursuant to “An Act Relative to Extending Certain State of Emergency Accommodations” (July 16, 2022) and the extension of that Act through March 21, 2025. If the meeting is held remotely, instructions for remote viewing of, and participation in, the meeting will be included in the agenda and may also be obtained from the Littleton Conservation Commission.

You may contact the Littleton Conservation Commission staff ([Conservation@littletonma.org](mailto:Conservation@littletonma.org); 978-540-2428), or the Massachusetts Department of Environmental Protection/ Central Region (508-792-7650) at 8 New Bond Street, Worcester, MA 01606) for information about this application

9-14-2023





**TOWN OF LITTLETON  
BOARD OF ASSESSORS**

P.O. BOX 1305  
LITTLETON, MA 01460  
(978) 540-2410  
FAX: (978) 952-2321

Date: \_\_\_\_\_

Re: Certified List of Abutters Conservation Commission

Applicant: \_\_\_\_\_

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

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

**Subject Parcel Location:** \_\_\_\_\_

**Subject Parcel No.:** \_\_\_\_\_

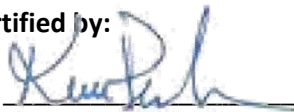
**Subject Owner Name:** \_\_\_\_\_

M.G.L. Chapter 131: Section 40 ..... "Any person filing a notice of intention with a conservation commission shall at the same time give written notification thereof, by delivery in hand or certified mail, return receipt requested, to all abutters within one hundred feet of the property line of the land where the activity is proposed, but not limited to, owners of land directly opposite said proposed activity on any public or private street or way, and in another municipality or across a body of water. When a notice of intent proposes activities on land under water bodies and waterways or on a tract of land greater than 50 acres, written notification shall be given to all abutters within 100 feet of the proposed project site. For the purposes of this action, "project site" shall mean lands where the following activities are proposed to take place: dredging, excavating, filling, grading, the erection, reconstruction or expansion of a building or structure, the driving of pilings, the construction or improvement of roads or other ways and the installation of drainage, sewerage and water systems, and "land under water bodies and waterways" shall mean the bottom of, or land under, the surface of the ocean or an estuary, creek, river stream, pond or lake. When a notice of intent proposes activity on a linear shaped project site longer than 1,000 feet in length, notification shall be given to all abutters within 1,000 feet of the proposed project site. If the linear project site takes place wholly within an easement through another person's land, notice shall also be given to the landowner. Said notification shall be at the applicant's expense, and shall state where copies of the notice of intention may be examined and obtained and where information regarding the date, time and place of the public hearing may be obtained. Proof of such notification, with a copy of the notice mailed or delivered, shall be filed with the conservation commission." .....

**I hereby certify the attached list of abutter (s) as stated in the M.G.L. Chapter 131, Section 40.**

Number of Abutter(s) \_\_\_\_\_ including the subject parcels + \_\_\_\_\_ Applicant Requesting Abutter's

List. Certified by:

 \_\_\_\_\_

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

Title: \_\_\_\_\_



RTE 2	R06 2 0	230 FOSTER ST	R08 14 0	BALSAM LN	R08 15 2
COMMONWEALTH OF MASSACHUSETTS	LUC: 911	BAUCOM ALLAN	LUC: 101	LITTLETON TOWN OF	LUC: 930
MASS DOT		230 FOSTER ST		37 SHATTUCK ST	
10 PARK PLAZA-REAL ESTATE DEPT		LITTLETON, MA 01460		LITTLETON, MA 01460	
BOSTON, MA 02116					
216 FOSTER ST	R08 12 0	260 FOSTER ST	R08 15 0	4 SPRUCE ST	R08 15 22
RAUSA FAMILY TRUST	LUC: 101	LITTLETON AFFORDABLE HOUSING T	LUC: 931	PEDDI SRINIVASA	LUC: 101
TRUSTEE RAUSA PAUL W		37 SHATTUCK ST		PEDDI PRASUNA	
216 FOSTER ST		LITTLETON, MA 01460		4 SPRUCE ST	
LITTLETON, MA 01460				LITTLETON, MA 01460	
FIR LN	R08 13 0	6 FRASER ST	R08 15 10	2 SPRUCE ST	R08 15 23
TOWN OF LITTLETON	LUC: 930	KARNATI V V REDDY 2017 REV TR	LUC: 101	ALLA PAVAN KUMAR	LUC: 101
PO BOX 1305		KARNATI KAVITHA 2017 REV TR		JAVVADI SAI SWETHA	
LITTLETON, MA 01460		6 FRASER ST		2 SPRUCE ST	
		LITTLETON, MA 01460		LITTLETON, MA 01460	
5 FIR LN	R08 13 2	8 FRASER ST	R08 15 11	BALSAM LN	R08 15 3
LAFERTY CRAIG WILLIAM JR	LUC: 101	ROTHLEUTNER KRISTOFFER BRICE	LUC: 101	LITTLETON TOWN OF	LUC: 930
LAFERTY KRISTIN MELENEY		ROTHLEUTNER LAURIE ANN		37 SHATTUCK ST	
5 FIR LN		8 FRASER ST		LITTLETON, MA 01460	
LITTLETON, MA 01460		LITTLETON, MA 01460			
3 FIR LN	R08 13 3	10 FRASER ST	R08 15 12	19 GRIMES LN	R08 15 38
BELIN EVGENI	LUC: 101	ZHANG YULIAN	LUC: 101	ARUMUGASAMY JEEVANANDAM	LUC: 101
KUKLINA POLINA		10 FRASER ST		JEEVANANDAM VAIJAYANTHIMALA	
3 FIR LN		LITTLETON, MA 01460		19 GRIMES LN	
LITTLETON, MA 01460				LITTLETON, MA 01460	
220 FOSTER ST	R08 13 A	12 FRASER ST	R08 15 13	15 GRIMES LN	R08 15 39
CYNTHIA G DUBE REV TRUST	LUC: 101	ZHENG MINXING	LUC: 101	GALLO FAMILY TRUST	LUC: 101
DUBE GREGORY P & CYNTHIA G TRS		CHAN LAI SIM		GALLO JOSEPH MICHAEL	
220 FOSTER ST		12 FRASER ST		15 GRIMES LN	
LITTLETON, MA 01460		LITTLETON, MA 01460		LITTLETON, MA 01460	
224 FOSTER ST	R08 13 B	1 FRASER ST	R08 15 16	FRASER ST	R08 15 4
BLANCHARD JOHN	LUC: 101	XIA WENYU	LUC: 101	LITTLETON TOWN OF	LUC: 930
BLANCHARD TERESA		SHEN LINMING		37 SHATTUCK ST	
224 FOSTER STREET		1 FRASER ST		LITTLETON, MA 01460	
LITTLETON, MA 01460		LITTLETON, MA 01460			
234 FOSTER ST	R08 13 C	3 FRASER ST	R08 15 17	11 GRIMES LN	R08 15 40
2021 JACOBS-ANDERSON FAMILY TR	LUC: 101	KOSINSKI-COLLINS MELISSA S	LUC: 101	POPE CAREY NAT	LUC: 101
TRUSTEE JACOBS DEBORAH		COLLINS JOHN A IV		POPE JING LIU	
234 FOSTER ST		3 FRASER ST		11 GRIMES LN	
LITTLETON, MA 01460		LITTLETON, MA 01460		LITTLETON, MA 01460	
238 FOSTER ST	R08 13 D	5 FRASER ST	R08 15 18	7 GRIMES LN	R08 15 41
CANFIELD QUINN E	LUC: 101	STEVENS CLIFFORD S	LUC: 101	KELA AMITKUMAR B	LUC: 101
CANFIELD JENNIFER A		STEVENS TIFFANY D		KACHOLIYA MOUSHMI	
238 FOSTER ST		5 FRASER ST		7 GRIMES LN	
LITTLETON, MA 01460		LITTLETON, MA 01460		LITTLETON, MA 01460	
242 FOSTER ST	R08 13 E	7 FRASER ST	R08 15 19	3 GRIMES LN	R08 15 42
VIGNONI RICHARD B	LUC: 101	SHARMA MANOJ K	LUC: 101	ROSHAN RAKESH	LUC: 101
242 FOSTER ST		SHARMA PUJA		PANKAJ SWARNICA	
LITTLETON, MA 01460		7 FRASER ST		3 GRIMES LN	
		LITTLETON, MA 01460		LITTLETON, MA 01460	



GRIMES LN LITTLETON TOWN OF 37 SHATTUCK ST LITTLETON, MA 01460	R08 15 5 LUC: 930	12 BULKELEY RD CLARK KEVIN J CLARK LAN 12 BULKELEY RD LITTLETON, MA 01460	R09 2 1 LUC: 101	232 TAYLOR ST GRADY J, D RICE TRUSTEES OF CONCORD ASSOC FOSTER ST TRUST 323 WEST MAIN STREET AYER, MA 01432	R09 32 A LUC: 403
7 BALSAM LN MITCHELL ANDREW JAMES LEEDO DESIREE MARIE 7 BALSAM LN LITTLETON, MA 01460	R08 15 7 LUC: 101	4 LIBERTY SQ CANNISTRARO CHANG FAM TR CANNISTRARO DD & CHANG JC-TRS 4 LIBERTY SQUARE LITTLETON, MA 01460	R09 29 A LUC: 101	300 FOSTER ST GRADY JOHN K, RICE DAVID B OF CONCORD ASSCS FOSTER ST TR 323 WEST MAIN STREET AYER, MA 01432	R09 33 0 LUC: 404
9 BALSAM LN ANDERSEN MARK A ANDERSEN JULIE 9 BALSAM LN LITTLETON, MA 01460	R08 15 8 LUC: 101	BULKELEY RD LITTLETON CONSERVATION TRUST P O BOX 594 LITTLETON, MA 01460	R09 3 0 LUC: 950	234 TAYLOR ST PREMIER HEALTHCARE GROUP, LLC 234 TAYLOR ST LITTLETON, MA 01460	R09 34 0 LUC: 400
2 FRASER ST FORSBERG JAMES M FORSBERG MEGAN 2 FRASER ST LITTLETON, MA 01460	R08 15 9 LUC: 101	LIBERTY SQ LITTLETON TOWN OF PARK DEPARTMENT PO BOX 1305 LITTLETON, MA 01460	R09 30 0 LUC: 930	OFF BULKELEY RD BOSTON & MAINE RAILROAD C/O GUILFORD TRANSPORTATION IRON HORSE PARK TAX DEPT 67 HIGH ST NO BILLERICA, MA 01862	R09 4 0 LUC: 901
FRASER ST DURKEE FARM BUILDERS INC 487 GROTON RD WESTFORD, MA 01886	R08 15 A LUC: 132	238 TAYLOR ST MACLEOD DOUGLAS S MACLEOD LOLA F 238 TAYLOR ST LITTLETON, MA 01460	R09 31 0 LUC: 101	BULKELEY RD TOWN OF LITTLETON CONSERVATION COMMISSION P O BOX 1305 LITTLETON, MA 01460	R09 5 0 LUC: 932
264 FOSTER ST BOSTON & MAINE RAILROAD C/O GUILFORD TRANSPORTATION IRON HORSE PARK TAX DEPT 67 HIGH ST NO BILLERICA, MA 01862	R08 37 0 LUC: 901	236 TAYLOR ST CURRAN JAMES P RIGALI YOLANDA M 236 TAYLOR ST LITTLETON, MA 01460	R09 31 1 LUC: 101	17 BULKELEY RD GRAY DANA C GRAY KARIN M 17 BULKELEY ROAD LITTLETON, MA 01460	R09 5 2 LUC: 101
208 FOSTER ST SULLIVAN CONOR SULLIVAN SAMANTHA 208 FOSTER ST LITTLETON, MA 01460	R08 9 A LUC: 101	240 TAYLOR ST SCULLY KATHLEEN K 240 TAYLOR ST LITTLETON, MA 01460	R09 31 2 LUC: 101	19 BULKELEY RD PRATAPA RADHA K PUTCHA VEENA S 19 BULKELEY RD LITTLETON, MA 01460	R09 5 4 LUC: 101
2 BULKELEY RD COOPER BONNIE MAHER-COOPER GINNY M 2 BULKELEY RD LITTLETON, MA 01460	R09 1 0 LUC: 101	242 TAYLOR ST DRINKWATER LAURA J 242 TAYLOR ST LITTLETON, MA 01460	R09 31 3 LUC: 101	23 BULKELEY RD PAVLOVIC DRAGANA KARLSSON JONAS 23 BULKELEY ROAD LITTLETON, MA 01460	R09 5 5 LUC: 101
6 BULKELEY RD HORNE ALEXANDER C MCLEOD SAMANTHA 6 BULKELEY RD LITTLETON, MA 01460	R09 1 A LUC: 101	244 TAYLOR ST MOHLENHOFF BENJAMIN A MOHLENHOFF BROOKE E 244 TAYLOR ST LITTLETON, MA 01460	R09 31 4 LUC: 101	21 BULKELEY RD THE FENTON FAMILY TRUST TRUSTEE FENTON JAMES T 21 BULKELEY RD LITTLETON, MA 01460	R09 5 6 LUC: 101
10 BULKELEY RD WHEELER JOHN L + KAREN L CO-TR OF THE J + K REALTY TRUST 63 JUNIPER CREEK BLVD PINEHURST, NC 28374	R09 2 0 LUC: 105	230 TAYLOR ST GRADY JOHN K TRUSTEE OF FOSTER/TAYLOR REALTY TRUST CONCORD ASSC- 323 WEST MAIN ST AYER, MA 01432	R09 32 0 LUC: 441	3 BULKELEY RD LENNON JOSEPH W+AMANDA TRS OF AMANDA+JOSEPH LENNON LIVING TR 3 BULKELEY RD LITTLETON, MA 01460	R09 5 A LUC: 101



7	BULKELEY RD	R09 5 B	153	TAYLOR ST	R10 14 0	3	WESTVIEW RD	R10 3 0
		LUC: 101			LUC: 930			LUC: 440
	WARD KEITH A			LITTLETON WATER DEPARTMENT			GUTIERREZ ARTURO+CATALDO CLASS	
	7 BULKELEY RD			39 AYER RD			B TRS, SWEENEY D CLASS A TR	
	LITTLETON, MA 01460			LITTLETON, MA 01460			C/O THE GUTIERREZ COMPANY	
							200 WHEELER ROAD	
							BURLINGTON, MA 01803	
11	BULKELEY RD	R09 5 C	151	TAYLOR ST	R10 14 1	1	WESTVIEW RD	R10 3 1
		LUC: 101			LUC: 401			LUC: 440
	WALSH JR VANCE J V			LML LITTLETON LLC			GUTIERREZ ARTURO+CATALDO CLASS	
	11 BULKELEY RD			401 EDGEWATER PLACE, SUITE 265			B TRS, SWEENEY D CLASS A TR	
	LITTLETON, MA 01460			WAKEFIELD, MA 01880			C/O THE GUTIERREZ COMPANY	
							200 WHEELER ROAD	
							BURLINGTON, MA 01803	
15	BULKELEY RD	R09 5 D	200	TAYLOR ST	R10 18 0	2	WESTVIEW RD	R10 3 2
		LUC: 101			LUC: 410			LUC: 440
	CROWLEY JENNIFER L TRUSTEE OF			FLETCHER JOHN L /JAMES L TR			GUTIERREZ ARTURO+CATALDO CLASS	
	15 BULKELEY ROAD REALTY TRUST			FLETCHER TRUST NO 1			B TRS, SWEENEY D CLASS A TR	
	15 BULKELEY ROAD			192 DEPOT RD			C/O THE GUTIERREZ COMPANY	
	LITTLETON, MA 01460			PO BOX 401			200 WHEELER ROAD	
				EAST TEMPLETON, MA 01438-0401			BURLINGTON, MA 01803	
284	FOSTER ST	R09 5 E			R10 19 0	11	WESTVIEW RD	R10 3 3
		LUC: 101			LUC: 101			LUC: 440
	BALZOTTI GREGORY			SONI DEEPAK			GUTIERREZ ARTURO+CATALDO CLASS	
	BALZOTTI SHERI			DHILLON SHUBHLAKHAN KAUR			B TRS, SWEENEY D CLASS A TR	
	284 FOSTER STREET			1250 HILL RD			C/O THE GUTIERREZ COMPANY	
	LITTLETON, MA 01460			LITTLETON, MA 01460			200 WHEELER ROAD	
							BURLINGTON, MA 01803	
286	FOSTER ST	R09 5 F	305	FOSTER ST	R10 2 1	241	TAYLOR ST	R10 5 0
		LUC: 101			LUC: 404			LUC: 014
	KENYON BROCKTON			2641-2651 SANTA ANNA AVE LLC			MORRISON BRUCE AL	
	COLLINS AINE			80 ERDMAN WAY SUITE 301			241 TAYLOR ST	
	286 FOSTER ST			LEOMINSTER, MA 01453			LITTLETON, MA 01460	
	LITTLETON, MA 01460							
290	FOSTER ST	R09 5 G	295	FOSTER ST	R10 2 2		TAYLOR ST	R10 6 0
		LUC: 101			LUC: 404			LUC: 440
	RIZZOLO ANTHONY J			ASJA PROPERTIES LLC			GUTIERREZ ARTURO+CATALDO CLASS	
	RIZZOLO JOSEPHINE			C/O SANDEEP ASJA			B TRS, SWEENEY D CLASS A TR	
	290 FOSTER ST			151 HAGGETTS POND RD			C/O THE GUTIERREZ COMPANY	
	LITTLETON, MA 01460			ANDOVER, MA 01810			200 WHEELER ROAD	
14	CRANE RD	R09 6 0			R10 20 0			LUC: 440
		LUC: 101			LUC: 101		GUTIERREZ ARTURO+CATALDO CLASS	
	SLUYSKI KRISTEN L			KLOCK JAMES			B TRS, SWEENEY D CLASS A TR	
	14 CRANE RD			CAMPBELL-KLOCK PRISCILLA			C/O THE GUTIERREZ COMPANY	
	LITTLETON, MA 01460			1252 HILL RD			200 WHEELER ROAD	
				LITTLETON, MA 01460			BURLINGTON, MA 01803	
277	FOSTER ST	R10 1 0	1254	HILL RD	R10 21 0	219	TAYLOR ST	R10 8 0
		LUC: 104			LUC: 101			LUC: 101
	MCCATHERIN JORDAN S			MARRESE CHRISTOPHER R			FOSS WILLIAM R, FOSS JANICE M	
	277-279 FOSTER ST			MARRESE NANCY A			CHARLTON ELIZABETH A	
	LITTLETON, MA 01460			1254 HILL RD			219 TAYLOR ST	
				LITTLETON, MA 01460			LITTLETON, MA 01460	
215	TAYLOR ST	R10 10 0	1256	HILL RD	R10 22 0	265	FOSTER ST	R11 1 0
		LUC: 104			LUC: 101			LUC: 401
	CHB LITTLETON LLC			MORRISON BRUCE A			VAF I 265 FOSTER LLC	
	20 GARDEN ST			MORRISON NANCY L			14241 DALLAS PKWY, SUITE 650	
	DANVERS, MA 01923			1256 HILL RD			DALLAS, TX 75254	
				LITTLETON, MA 01460				
205	TAYLOR ST	R10 11 0	247	TAYLOR ST	R10 23 0		REAR FOSTER ST	R11 1 2
		LUC: 316			LUC: 101			LUC: 440
	CMH LITTLETON LLC			SHIMMEL GARY A + KATHLEEN M			VAF I 265 FOSTER LLC	
	20 GARDEN ST			TRUSTEES OF ATS REALTY TRUST			14241 DALLAS PKWY, SUITE 650	
	DANVERS, MA 01923			456 NEWTOWN RD			DALLAS, TX 75254	
				LITTLETON, MA 01460-2206				



REAR FOSTER ST	R11 1 3
	LUC: 441
<p> VAF I 265 FOSTER LLC  14241 DALLAS PKWY, SUITE 650  DALLAS, TX 75254 </p>	
FOSTER ST	R11 2 0
	LUC: 901
<p> BOSTON &amp; MAINE RAILROAD  C/O GUILFORD TRANSPORTATION  IRON HORSE PARK  TAX DEPT 67 HIGH ST  NO BILLERICA, MA 01862 </p>	
245 FOSTER ST	R11 3 0
	LUC: 441
<p> SNS FOSTER LLC  C/O ROBERT LONG  30 HARWOOD AV  LITTLETON, MA 01460 </p>	
219 FOSTER ST	R11 3 3
	LUC: 101
<p> TJIONAS GEORGE A  BOUMITRI MICHELLE M  219 FOSTER ST  LITTLETON, MA 01460 </p>	
221 FOSTER ST	R11 3 4
	LUC: 101
<p> GRACE JULIE DAHLBERG  GRACE FRANK P  221 FOSTER ST  LITTLETON, MA 01460 </p>	
263 FOSTER ST	R11 3 5
	LUC: 972
<p> MASS BAY TRANS AUTHORITY  TEN PARK PLAZA  BOSTON, MA 02116 </p>	
237 FOSTER ST	R11 5 4
	LUC: 101
<p> CHRISTENSEN DANE WILLIAM  GRECO DANIELLE ELIZABETH  237 FOSTER ST  LITTLETON, MA 01460 </p>	
233 FOSTER ST	R11 6 0
	LUC: 101
<p> CAREW MICHAEL J  WEINER MICHELLE B  233 FOSTER ST  LITTLETON, MA 01460 </p>	
225 FOSTER ST	R11 7 0
	LUC: 101
<p> KIERNAN KAREN A  KIERNAN TODD D  225 FOSTER ST  LITTLETON, MA 01460 </p>	