



City Council

Regular Meeting

~ Draft ~

36 Court Street
Springfield, MA 01103
<http://www.springfieldcityhall.com>

Anthony I. Wilson
413-787-6096

Monday, October 3, 2016

7:00 PM

Springfield City Hall -- Council Chambers

Possible Public Speak-Out Time 6:30 PM

Call to Order

7:00 PM Meeting called to order on October 3, 2016 at Springfield City Hall -- Council Chambers, 36 Court Street, Springfield, MA.

Attendee Name	Title	Status	Arrived
Justin Hurst	At Large Councilor	Present	
Kenneth E. Shea	Ward 6 Councilor	Present	
E. Henry Twiggs	Ward 4 Councilor	Present	
Timothy C. Allen	Ward 7 Councilor	Present	
Timothy J. Rooke	At-Large Councilor	Absent	
Bud L. Williams	At-Large Councilor	Present	
Orlando Ramos	Vice President- Ward 8 Councilor	Present	
Marcus J Williams	Ward 5 Councilor	Present	
Adam Gomez	Ward 1 Councilor	Present	
Thomas M. Ashe	At-Large Councilor	Present	
Melvin A. Edwards	Ward 3 Councilor	Present	
Kateri B. Walsh	At-Large Councilor	Present	
Michael A. Fenton	President	Present	

Moment of Silence - Pledge of Allegiance

Reports of Committee

Report of the Young Professionals subcommittee by Councilor Marcus Williams.

Report of the Finance Committee by Councilor Allen.

Informational

1. Order (ID # 3662)

August Revenue Vs. Expenditure Report

COMMENTS - Current Meeting:

Patrick Burns, the City's Comptroller, gave the August revenue v. expenditure report.

ATTACHMENTS:

- August Revenue Vs. Expenditure Report (PDF)

RESULT: RECEIVE REPORT**Petitions**

Councilor Walsh motion to take items 1-11 on the agenda out of committee. The motion passed unanimously.

Chris Cignoli spoke on the items and explained that the petitions are reviewed by the DPW and by the Board of Public Works prior to coming before the City Council.

2. Petition (ID # 3628)

Mobilitie Utility Petition

HISTORY:

09/12/16 City Council **CONTINUE**
Next: 10/03/16

COMMENTS - Current Meeting:

Brian Gaudette representing Mobilitie stated that the company leases telephone poles to wireless providers. An that the petition is to install a telephone pole. Mr. Gaudette stated that Mobilitie already has agreements from wireless providers to transmit from their poles.

ATTACHMENTS:

- 8-15-2016 notice MOBILITIE (PDF)
- Mobilitie plan & letter (PDF)

RESULT: REFER TO COMMITTEE **Next: 10/17/2016 7:00 PM****3. Motion To:** Motion to refer petitions for installations of utility poles by Mobilitie to Committee by Councilor Allen. Seconded by Councilor Hurst**RESULT: ADOPTED VOICE****4. Petition (ID # 3629)**

Main Street (VERIZON)

HISTORY:

09/12/16 City Council **REFER TO COMMITTEE**
Next: 10/03/16

ATTACHMENTS:

- 20140623_Plan with Cross Sections (PDF)
- 8-17-2016 notice Verizon (PDF)

RESULT: RECEIVED PASSED**5. Petition (ID # 3630)**

Norman Street (COMCAST)

HISTORY:**09/12/16****City Council****REFER TO COMMITTEE****Next: 10/03/16****ATTACHMENTS:**

- 8-22-2016 Norman St. COMCAST (PDF)
- Plan Norman St. (PDF)

RESULT: RECEIVED PASSED**6. Petition (ID # 3631)**

Brookdale Drive (COMCAST)

HISTORY:**09/12/16****City Council****REFER TO COMMITTEE****Next: 10/03/16****ATTACHMENTS:**

- Plan Brookdale (PDF)
- 8-24-2016 Brookdale Dr. COMCAST (PDF)

RESULT: RECEIVED PASSED**7. Petition (ID # 3637)**

Middlesex Street (EVERSOURCE)

HISTORY:**09/12/16****City Council****REFER TO COMMITTEE****Next: 10/03/16****ATTACHMENTS:**

- 8-29-2016 notices of meeting #6239 (PDF)
- plan Middlesex St. (PDF)

RESULT: RECEIVED PASSED**8. Petition (ID # 3669)**

PVT A Frank B. Murry

COMMENTS - Current Meeting:

Mr. Cignoli explained that the PVT A needed to install an electronic charging station in conjunction with the opening of union station.

ATTACHMENTS:

- PVT A PLANS (PDF)
- Petition PVT A CHARGER (PDF)
- 9-12-2016 notice PVT A (PDF)

RESULT: RECEIVED PASSED**9. Petition (ID # 3670)**

Main Street (Mobilitie)

ATTACHMENTS:

- 9-26-2016 notice MOBILITIE (PDF)
- BS90XSI50B_CONSTDWGS90_20160614_A1P (PDF)

RESULT: REFER TO COMMITTEE**Next: 10/17/2016 7:00 PM****10. Petition (ID # 3671)**

Taylor Street (Mobilitie)

ATTACHMENTS:

- BS90XSI52A_LUPDWG_20160823_A (PDF)
- BS90XSI52A_LUPCOVLET_20160823_A (PDF)
- 9-26-2016 notice MOBILITIE (PDF)

RESULT: REFER TO COMMITTEE**Next: 10/17/2016 7:00 PM****11. Petition (ID # 3672)**

Dwight Street (Mobilitie)

ATTACHMENTS:

- 9-26-2016 notice MOBILITIE (PDF)
- BS90XSI51B_CONSTDWGS90_20160614_A1P (PDF)

RESULT: REFER TO COMMITTEE**Next: 10/17/2016 7:00 PM****12. Petition (ID # 3673)**

Marlborough Street (Eversource #6240)

COMMENTS - Current Meeting:

Mr. Cignoli spoke in favor of the petition.

ATTACHMENTS:

- plan #6240 (PDF)
- Petition #6240 (PDF)
- 9-21-2016 marlborough st. #6240 (PDF)

RESULT: RECEIVED PASSED**Grants****13. Order (ID # 3623)**

Riverfront Park Grant - Host Community Agreement Funds - \$1,000,000

COMMENTS - Current Meeting:

Patrick Sullivan, Director of Parks, explained that the funds come from a grant by MGM to update Riverfront part.

ATTACHMENTS:

- Riverfront Park Grant Letter to Mayor Sarno (PDF)
- Riverfront Park - Grant Set-Up - Signed (PDF)

RESULT: PASSED BY VOICE VOTE**14. Order (ID # 3665)**

Department of Public Works Recycling Dividend Program (RDP) Grant - \$56,000

COMMENTS - Current Meeting:

Mr. Cignoli spoke in favor of accepting the grant.

ATTACHMENTS:

- Recycling Dividend Program (PDF)

RESULT: PASSED BY VOICE VOTE**15. Order (ID # 3667)**

FY17 Massachusetts Cultural Council Grant Acceptance - No Match Required \$11,300

ATTACHMENTS:

- Mass Cultural Council (PDF)

RESULT: PASSED BY VOICE VOTE**16. Order (ID # 3658)**

Executive Office for Administration and Finance (EOAF) Grant - No Match - \$34,275

COMMENTS - Current Meeting:

TJ Plante, CAFO, explained that the grant will be used to improve IT infrastructure.

ATTACHMENTS:

- IT - EOAF GRANT - Contract (PDF)
- EOAF Grant Set-Up Form - Signed (PDF)

RESULT: PASSED BY VOICE VOTE**17. Order (ID # 3666)**

One Care Dual Rate Grant - No Match Required \$10,784.70

ATTACHMENTS:

- MELANIE-ONE CARE-DUAL RATE (PDF)

RESULT: PASSED BY VOICE VOTE**18. Order (ID # 3664)**

Springfield City Library Donations - \$589.04

ATTACHMENTS:

- Library Donations 10_03_16 (CSV)
- Library Donations (PDF)

RESULT: PASSED BY VOICE VOTE**19. Order (ID # 3668)**

TJO Donations- \$305.00

ATTACHMENTS:

- TJO Donations 10_03_16 (CSV)

RESULT: PASSED BY VOICE VOTE**20. Order (ID # 3660)**

Police Department Donations - \$95.00

ATTACHMENTS:

- Police Donations (PDF)

RESULT: PASSED BY VOICE VOTE**Orders****21. Order (ID # 3661)**

Bills of Prior Year - Treasurer Department

ATTACHMENTS:

- CAFO Cert - Treasurer WME BOPY(DOCX)
- Treasurer WME BOPY (PDF)

RESULT: ADOPTED [12 TO 0]**AYES:** Hurst, Shea, Twiggs, Allen, Williams, Ramos, Williams, Gomez, Ashe, Edwards, Walsh, Fenton**ABSENT:** Timothy J. Rooke**22. Order (ID # 3675)**

Order Granting a Utility Easement to WMECO/Eversource and Verizon For Balliet Elementary School at 52 Rosewell Street

Easement is needed for upgrade of electrical service at Balliet Elementary School, at 52 Rosewell Street/33 Breckwood Boulevard (City Parcel #017900188).

ATTACHMENTS:

- Exhibit #1 - Draft Easement; and Exhibit A - Map of Easement (PDF)

RESULT:	ADOPTED [12 TO 0]
AYES:	Hurst, Shea, Twiggs, Allen, Williams, Ramos, Williams, Gomez, Ashe, Edwards, Walsh, Fenton
ABSENT:	Timothy J. Rooke

General Business

(23.) (ID # 3603) Order Amending Code Chapter 110, Animals
See the attachment titled "Amendmentr to Animal Control Ordinance"

Amended by Councilor Edwards seconded Councilor Twiggs

RESULT:	FIRST STEP	Next: 10/17/2016 7:00 PM
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COMMENTS - Current Meeting:

Motion to amend the ordinance by Councilor Edwards, seconded by Councilor Twiggs.

ATTACHMENTS:

- Summary of Proposed Changes to Code Chapter 110, Animals (PDF)
- Revised Code Chapter 110, Animals (PDF)

(24.) (ID # 3674) Order Amending Code Chapter 418, the Preservation of Historically Significant Buildings

AMENDING CHAPTER 418 OF THE REVISED ORDINANCES OF THE CITY OF SPRINGFIELD, 1986, AS AMENDED, BY AMENDING SECTION 3 THEREOF

ORD. NO. ____

Be it ordained by the Council of the City of Springfield, as follows:

Section 3 of Chapter 418, The Preservation of Historically Significant Buildings, of the Code of the City of Springfield, is hereby amended by adding subsection E:

E. No municipal department shall use general funds, grant funds, or bond funds to demolish a Preferably Preserved building without approval of the use of such funds by the City Council.

Approved as to form:

Associate City Solicitor

RESULT:	FIRST STEP	Next: 10/17/2016 7:00 PM
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COMMENTS - Current Meeting:

Councilor Bud Williams spoke in favor of the ordinance. The ordinance would prevent the city from expending funds on the demolition of historically significant buildings without city council oversight.

Councilor Twiggs spoke in support of the ordinance.

(25.) (ID # 3654) Article VII of Chapter 279: Mobile Food Trucks

AN ORDINANCE (A LOCAL LAW) TO AMEND the Code of the City of Springfield, Chapter 279 thereof, by adding Article VII as follows:

Purpose.

The general goal of this ordinance is to provide designated space in downtown Springfield for food truck vendors to operate on a regular basis. Overall, food trucks would encourage greater foot traffic in the downtown area, and would benefit employees and visitors who frequent the downtown/metro center area of Springfield by providing a variety of food selections, during lunch hours. Further, food vendors with a permit would be able to operate in the designated area without utilizing existing parking or metered spaces, and all other vendors who do not purchase a permit can continue to operate on their regular route pursuant to the existing ordinances.

Definitions.

When used in this section, unless the context otherwise requires, the following terms shall have the following meanings:

Downtown Area shall mean the area of the City of Springfield whose western boundary is East Columbus Avenue, whose eastern boundary Chestnut Street, whose northern boundary is Liberty Street and whose southern boundary is Union Street.

Food establishment shall mean a business operation that stores, prepares, packages, serves, vends or otherwise provides food for human consumption as set forth in the State Sanitary Code 105 CMR 590.002.

Mobile food commissary shall mean a licensed food establishment that a mobile food truck reports to twice daily for all food and supplies and for all cleaning and sanitizing of units and equipment.

Mobile food truck shall mean a food establishment that is located upon a vehicle, or which is pulled by a vehicle, where food or beverage is cooked, prepared and served for individual portion service, such as a mobile food kitchen.

Scope.

- a. The provisions of this section shall apply to any person or other legally recognized entity engaged in the business of cooking, preparing, and distributing food or beverage with or without charge from mobile food trucks in Downtown Area between the hours 10:00 antemeridian and 6:00 postmeridian.
- b. The provisions of this section shall not apply to canteen, coffee, or ice cream trucks that move from place to place and are stationary in the same location for no more than thirty (30) minutes at a time or food vending push carts and stands.

- c. The provisions of this section shall not apply to mobile food trucks that operate outside of the Downtown Area or outside of the times of day referenced in subsection A of this Section.
- d. The provisions of this section shall not apply to mobile food operations that receive a temporary event permit issued by the Health and Human Services Department.

Mobile Food Truck Permit Required.

- a. No person or business entity, including a religious or charitable organization, shall operate a mobile food truck as described in section 40 without a permit issued by the Springfield Parking Authority.
- b. A permit shall be valid from April first (1st) to October thirtieth (30th) of a given year.

Application for a Mobile Food Truck Permit.

- a. *Single Application.* There shall be made available by the Springfield Parking Authority a single application form to apply for each mobile food truck permit. The application shall provide the following:
 - 1. A description of necessary inspections and fees;
 - 2. A description of areas of the City where the operation of mobile food trucks are limited or prohibited;
- b. *Submission of Materials.* Each application shall indicate on its face, in addition to other requirements as may be determined by the Springfield Parking Authority, that the following materials must be submitted by the applicant:
 - 1. The name of the business and its owner or owners and the mailing address of the business,
 - 2. A description of the proposed business plan for the mobile food truck operation,
 - 3. A proposed location where the mobile food truck will be stationary and serving food,
 - 4. Certification that the vehicle has passed all necessary inspections required by the Springfield Fire Department and, Health and Human Services Department,
 - 5. Proof that the mobile food truck will be serviced by a mobile food commissary,
 - 7. A certificate of insurance providing general liability insurance listing the City as additionally insured. A food truck permit shall be issued only for the explicit time period covered by the effective dates of the general liability insurance policy.
- c. *Approval Process.* An application must be submitted to the Springfield Parking Authority;
 - 1. Within sixty (60) days of the submission of a completed application, the Springfield Parking Authority shall either issue or deny the application for a permit. ~~Any application not acted on within sixty (60) days shall be deemed denied.~~

2. ~~If the application is denied in whole or in part, the Springfield Parking Authority shall state the specific reasons for the denial. The decision shall be final and subject only to judicial review under M.G.L. c. 30A, § 14.~~

~~Limitation on the Number of Permits.~~

~~There shall be no more than ten (10) permits granted pursuant to this chapter. The permits shall be issued in the following manner:~~

- a. ~~Two (2) permits may be issued for the parking spaces located at Riverfront Park~~
- b. ~~One (1) permit may be issued a parking space on Main Street between Boland Way and Bridge Street~~
- c. ~~Seven (7) permits may be issued for parking spaces along Elm Street.~~

~~Permit Renewal.~~

- a. ~~Every mobile food truck permit, unless suspended or revoked by the Parking Authority for a violation of any provision of this section or other rule or regulation promulgated for the implementation of this section, shall be renewed annually given that a renewal fee is paid prior to April first (1st) of a given year.~~
- b. ~~The Springfield Parking Authority reserves the right to add, remove, and reapportion available locations among mobile food truck operations at renewal.~~

~~Rules and Regulations.~~

- a. ~~General. The Springfield Parking Authority is hereby authorized to promulgate, additional rules and regulations appropriate for the implementation of this section, and, if necessary, work with other agencies and departments of the City and State to establish a streamlined process for the permitting of mobile food trucks; provided, however, that such rules and regulations are not inconsistent with the following limitations and restrictions:~~
 1. ~~No operator of a mobile food truck shall park, stand, or move a vehicle and conduct business within areas of the City where the permit holder has not been authorized to operate;~~
 2. ~~No permit holder shall possess a permit for a mobile food truck that is not in operation for a period of more than fourteen (14) days without duly notifying and obtaining approval from the Springfield Parking Authority.~~
 3. ~~The issuance of a permit does not grant or entitle the exclusive use of the service route, in whole or in part, to the mobile food truck permit holder, other than the time and place as approved for the term of the permit;~~

- ~~4. No mobile food truck shall provide or allow any dining area, including but not limited to tables, chairs, booths, bar stools, benches, and standup counters, unless a proposal for such seating arrangements is submitted with the permit application and approved by Springfield Parking Authority.~~
- ~~5. Consumers shall be provided with single service articles, such as plastic forks and paper plates, and a waste container for their disposal. All mobile food trucks shall offer a waste container for public use that the operator shall empty at his own expense.~~
- ~~6. The permit holder must keep an accurate log indicating that the mobile food truck is serviced at least twice daily by a mobile food commissary for all food, water and supplies and for all cleaning and servicing operations, including the emptying and cleaning of waste containers.~~
- ~~7. No mobile food truck shall make or cause to be made any unreasonable or excessive noise in violation of Chapter 259 of the Revised Ordinances of the City of Springfield.~~
- ~~8. All mobile food trucks must be equipped with a permanently mounted global positioning system (GPS) device that meets rules and regulations established by the Committee or its members.~~
- ~~9. For mobile food trucks on public property, the City reserves the right to temporarily move a mobile food truck to a nearby location if the approved location needs to be used for emergency purposes, snow removal, construction, or other public benefit.~~
- ~~b. *Inspectional Services.* The Health and Human Services Department shall ensure compliance with the State Sanitary Code 105 CMR 590.~~

Application Fee.

- ~~a. *Application Fee.* The application fee for a permit or a renewal of a permit granted by the Committee for the operation of a mobile food truck shall be twelve hundred (\$1200.00) dollars.~~

Prohibition Against the Transfer of a Permit.

- ~~a. *Transfers for Value Prohibited.* No person holding a permit for a mobile food truck shall sell, lend, lease or in any manner transfer a mobile food truck permit for value.~~
- ~~b. *Nonvalue Transfers as Part of the Sale of a Business.* Notwithstanding subsection 279-10, a permit holder may transfer a permit as part of the sale of a majority of the stock in a corporation holding such permit, as part of the sale of a majority of the membership interests of a limited liability company holding such permit, or as part of the sale of a business or substantially all of its assets; provided that there shall be no allocated or actual value for the transfer of the permit.~~
- ~~1. Prior to any such transfer, the transferor shall notify the Springfield Parking Authority in writing and the transferee shall submit a food truck permit application for approval~~

to the Authority pursuant to the process set forth in subsection ~~279-5~~ and any additional rules and regulations promulgated by the Authority.

2. ~~Any such transfer shall be subject to the terms and conditions of the original permit.~~

c. ~~Unauthorized Transfer Voids Permit.~~ Any unauthorized transfer or attempt to transfer a permit shall automatically void such permit. Whoever violates this provision, including both the transferor and transferee, shall be subject to a fine of three hundred (\$300.00) dollars, pursuant to section ~~279-5(a)~~. The unauthorized transfer or attempt to transfer of each permit shall constitute a separate violation.

~~Operation of Mobile Food Trucks.~~

a. ~~Operation Without Permit.~~ Any mobile food truck being operated in the Downtown Area, during the times described in section 40, without a valid mobile food truck permit issued by the Springfield Parking Authority shall be deemed a public safety hazard and may be ticketed and impounded.

b. ~~Unattended Vehicles Prohibited.~~ No mobile food truck shall be parked on the street overnight, or left unattended and unsecured at any time food is kept in the mobile food truck. Any mobile food truck which is found to be unattended shall be considered a public safety hazard and may be ticketed and impounded.

~~Enforcement.~~

a. ~~Fine for Violation.~~ Any permit holder operating a mobile food truck or service in violation of any provision of this section or any rules and regulations promulgated by the Springfield Parking Authority may be subject to a fine of three hundred (\$300.00) dollars per day. Each day of violation shall constitute a separate and distinct offense. The provisions of G.L. c. 40, s. 21D may be used to enforce this section.

b. ~~Revocation, Suspension, Modification.~~ Once a permit has been issued it may be revoked, suspended, modified, or not renewed by the Springfield Parking Authority for failure to comply with the provisions of this section or any rules and regulations promulgated by the Authority.

c. ~~Removal.~~ Any permit holder found in violation of this section or any rules and regulations promulgated by the Springfield Parking Authority may be issued a ticket for violation and the mobile food vehicle may be impounded.

d. ~~Enforcement.~~ The provisions of this section or any rules and regulations promulgated by the Parking Authority may be enforced jointly by the Springfield Police Department and the Springfield Health and Human Services Department.

~~Severability.~~

If any provision of this section is held to be invalid by a court of competent jurisdiction, then such provision shall be considered separately and apart from the remaining provisions, which shall remain in full force and effect.

RESULT: REFERRED TO COMMITTEE**Next: 10/17/2016 7:00 PM**

(26.) ORD-2016-8 Order Amending Code Chapter 213, Health and Sanitation, To Add Article II, Freshwater Fish Consumption Advisory

AN ORDER AMENDING CHAPTER 213 OF THE REVISED ORDINANCES OF THE CITY OF SPRINGFIELD, 1986, AS AMENDED, BY ADDING ARTICLE II THEREOF:

ORD. NO. ____

Be it ordained by the City Council of the City of Springfield, as follows:

Chapter 213 of the Code of the City of Springfield, is hereby amended by adding Article II, Freshwater Fish Consumption, including Sections 213-2 through 213-8 as follows:

ARTICLE II: Freshwater Fish Consumption Advisory

§213-2 Purpose and Intent

Due to the high levels of mercury found in freshwater fish in Massachusetts, the Massachusetts Department of Public Health has established guidelines for the safe consumption of freshwater fish caught in bodies of water in Massachusetts. Specifically, these safe eating guidelines advise that pregnant women, women who may become pregnant, nursing mothers, and children under the age of twelve, should not eat any freshwater fish caught in the streams, rivers, lakes, and ponds in Massachusetts.

The purpose of this ordinance is to require the City of Springfield to construct and maintain signs informing the public of the Massachusetts Department of Public Health's blanket advisory regarding the high levels of mercury in the state's freshwater fish. The signs will advise the public that women of childbearing age and children under the age of twelve should not consume any freshwater fish caught in the streams, rivers, lakes, and ponds in Massachusetts. These warning signs are necessary to promote the public health and safety of the citizens of the City of Springfield through increased awareness of this mercury contamination.

§213-3 Definitions

3.1 "Bodies of water" refers to any lake, pond, river, stream, tributary, brook, creek, but is not exclusive to the above list.

(i) "Private body of water" refers to any body of water owned by private citizens or companies.

(ii) "Public body of water" refers to any body of water owned by the City of Springfield.

3.2 "Damage/Destruction by natural causes" refers to any damage or destruction caused by weather, natural disaster, deterioration such as rust, damage caused by felled trees, or any other natural wear and tear. This is not an exclusive list. Damage by natural causes does not include any man-made damage to the signs.

3.3 "Established entrance" refers to any commonly used access point and/or highly traveled path to the body of water.

3.4 "Freshwater fish" are species of fish that spend a period of time in their lifecycle including reproductive cycle in rivers, streams, lakes and ponds. Species include but are not limited to: Atlantic Salmon, Black Crappie, Bluegill, Brook Trout, Brown Trout, Catfish, Chain Pickerel, Common Dace, Lake Trout, Largemouth Bass, Muskellunge, Northern Pike, Pumpkinseed, Rainbow Trout, Smallmouth Bass, White Crappie, and Yellow Perch.

3.5 "Man-made damages" refers to any damage or destruction not naturally caused, including, but not limited to, vandalism.

3.6 "Mercury" is a heavy metal element that in high levels can be toxic to humans.

(i) "Mercury contamination" refers to levels of mercury deemed to be hazardous to life by the Massachusetts Department of Public Health.

§213-4 Regulations

4.1 Warning signs shall be constructed, erected, and maintained in accordance with this ordinance, at every public body of water in the City of Springfield.

4.2 The signs shall be located at every established entrance to a body of water, or within (twenty) feet of

the body of water's banks, placed in highly visible areas.

4.3 Each sign shall state, "WARNING - Women of childbearing age, and children under the age of twelve, should avoid consumption of the freshwater fish in these waters due to high levels of mercury and other contaminants." Each signs shall be bilingual; posted in English and Spanish.

4.4 To ensure uniformity of the signs throughout the City of Springfield, the signs shall be in conformance to the type, size, style, color, material, placement, and any other specifications mandated by other applicable City of Springfield ordinances or other binding legal authority.

4.5 The City of Springfield shall be responsible for any and all fees to install and maintain all signs erected in accordance with this ordinance.

§213-5 Exemptions

5.1 Bodies of water privately owned within the City of Springfield limits are exempted from this ordinance, however, are still encouraged to comply. Privately owned bodies of water in compliance with section 3.1 to 3.4 of this ordinance shall have all sign construction and maintenance fees paid for by the City of Springfield per section 3.5 of this ordinance.

5.2 Freshwater fish that are stocked in lakes, ponds, rivers, streams, tributaries, brooks, or creeks in Massachusetts are deemed safe to consume and thus exempted from this ordinance.

5.3 Any public body of water within the City of Springfield that is tested by the Massachusetts Department of Public Health and found to have safe levels of mercury contaminants for all freshwater fish shall be deemed exempt from this ordinance.

(i) If deemed safe under the section 4.3 exemption, testing must be done every (two years) to maintain exempt status.

5.4 Any public body of water within the City of Springfield that is tested by the Massachusetts Department of Public Health and found to have safe levels of mercury contaminants for some or certain species of freshwater fish, signs shall be amended, as

per section 4.5, at said body of water in accordance with the new guidelines.

5.5 Every (two years) signs constructed under this ordinance shall be reviewed for their accuracy, and amended in accordance with section 4.4.

§213-6 Administration and Enforcement

6.1 The City of Springfield shall designate a specific department within the city to construct and maintain these signs.

6.2 The City of Springfield Board on Signs shall approve or disapprove each notice received by the City, relative to an application for the location of a sign.

6.3 Signs constructed in accordance with this ordinance, which are damaged or destroyed through natural causes shall be the responsibility of the department assigned to maintenance by the City of Springfield. The department responsible for maintenance of the damaged sign shall have the authority to recover the costs of replacing the sign from the City of Springfield.

6.4 Signs constructed in accordance with this ordinance, which are damaged or destroyed by man-made causes shall be the responsibility of the person who is found to have caused the damages. Any such person found to be responsible for damage or destruction of any sign constructed through this ordinance shall pay to the City of Springfield all of the costs for such damage or destruction, including, but not limited to, costs for sign removal and replacement. Failure to pay for damage or destruction may result in legal action against the responsible party for all costs, such as court costs and reasonable attorney fees.

§213-7 Effective Date

This ordinance will take effect on (TBD).

§213-8 Severability

Each separate provision of this ordinance shall be deemed independent of all other provisions herein, and if any provision of this section be declared invalid by a court of competent jurisdiction, the remaining

provisions of this section shall remain valid and enforceable.

RESULT:	SECOND & THIRD STEPS [11 TO 0]
MOVER:	Melvin A. Edwards, Ward 3 Councilor
AYES:	Hurst, Shea, Twiggs, Williams, Ramos, Williams, Gomez, Ashe, Edwards, Walsh, Fenton
ABSENT:	Timothy C. Allen, Timothy J. Rooke

(27.) (ID # 3650) Amending Ordinance Chapter 82 by Amending Article V and Repealing Article IV

Please see attached materials

Please see attached materials

RESULT:	REFERRED TO COMMITTEE	Next: 10/17/2016 7:00 PM
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COMMENTS - Current Meeting:

Councilor Edwards asked that this item be sent to committee. The body voted unanimously to send the item to committee.

ATTACHMENTS:

- Amended City Ordinance Chapter 82 (DOC)

Resolutions

28. Resolution 2016-1

Resolution Against Lifting the Cap on Commonwealth Charter Schools

COMMENTS - Current Meeting:

Councilor Walsh spoke in favor of the resolution and asked that the superintendent explain the issue.

Katherine Mastrinardi, President of the Paraprofessionals Union, stated that charter school do not have the same population of students that the public schools have. Therefore charter school appear to perform better than public schools.

Superintendent Warwick stated that Charter schools cost the public school \$3.6 million. He stated that the legislature should fix the funding formula before the expanding charter schools.

Amaad Rivera spoke against the resolution.

Mr. Collins, president of the teachers union, spoke in favor of the resolution.

Margaret Brown, of Holyoke, spoke against the resolution.

In response to a question from Councilor Allen, Pat Roach, Finance Director for the Public Schools, stated that both charter and public schools gets about \$11,000 per student. He stated that public school generally have to keep the students that require more expensive programs and the public school do not get a reduction in fixed costs like building maintenance.

Councilor Shea spoke against the resolution. He stated that charter schools give parents choices.

Councilor Marcus Williams spoke in favor of the resolution.

Councilor Bud Williams spoke in favor of the resolution.

Councilor Edwards spoke in favor of the resolution.

RESULT:	ADOPTED [10 TO 2]
MOVER:	Bud L. Williams, At-Large Councilor
SECONDER:	Marcus J Williams, Ward 5 Councilor
AYES:	Hurst, Allen, Williams, Ramos, Williams, Gomez, Ashe, Edwards, Walsh, Fenton
NAYS:	Kenneth E. Shea, E. Henry Twiggs
ABSENT:	Timothy J. Rooke

Suspension of Rules



City Council

ADOPTED

Meeting: 10/03/16 07:00 PM
Initiator: Pat Burns
Sponsors: Mayor Domenic J. Sarno
DOC ID: 3662

1

August Revenue Vs. Expenditure Report (Mayor Sarno)

RESULT: RECEIVE REPORT

Statement of Revenues and Other Sources,
and Expenditures and Other Uses
Budget and Actual - General Fund

For the period ended
08/31/16

Revenues and Other Sources:	Revised Budget	Actual	Variance Over/(Under)	%
Real Estate & Personal Property Taxes	185,958,317	\$ 44,137,576	\$ (141,820,741)	24%
Real Estate & Personal Property Taxes - Tax Liens	-	323,128	323,128	0%
Motor Vehicle Excise	9,900,000	950,298	(8,949,702)	10%
Penalties, interest and other taxes	5,156,657	204,861	(4,951,796)	4%
Charges for Services	13,024,231	2,049,256	(10,974,975)	16%
Intergovernmental	370,207,357	59,963,399	(310,243,958)	16%
MSBA Payments	10,696,808	-	(10,696,808)	0%
Licenses and Permits	10,533,003	3,873,974	(6,659,029)	37%
Fines and Forfeits	479,116	72,348	(406,768)	15%
Interest earned on Investments	1,346,859	109,860	(1,236,999)	8%
Miscellaneous	9,505,615	1,328,786	(8,176,829)	14%
FY 2016 Net School Spending Shortfall (a.)	2,000,000	2,000,000	-	100%
Total Revenues and Other Sources	618,807,963	115,013,485	(503,794,478)	19%
Expenditures and Other Uses:				
General government	21,912,729	5,470,039	16,442,690	25%
Public safety				
Police	43,166,081	6,255,210	36,910,871	14%
Fire	21,316,555	3,538,604	17,777,951	17%
Centralized Dispatch	1,909,826	330,324	1,579,501	17%
Other	3,993,453	1,052,825	2,940,628	26%
Health and Welfare	4,738,092	738,146	3,999,946	16%
Public works	10,054,484	4,709,983	5,344,501	47%
Education	396,423,973	61,392,570	335,031,403	15%
Culture and recreation	12,686,840	3,658,251	9,028,589	29%
Pension and fringe	58,368,139	35,741,699	22,626,440	61%
State and district assessments	3,519,143	589,805	2,929,338	17%
Debt Service	34,070,027	23,455,050	10,614,977	69%
Pay as you go Capital	3,362,442	358,728	3,003,714	11%
Other Financing Use - Trash Enterprise Supplement	3,286,181	3,286,181	-	100%
Total Expenditures and Other Uses	618,807,963	150,577,416	468,230,548	24%
Excess (deficiency) of revenues and other sources over expenditures and other uses	-	\$ (35,563,930)	\$ (35,563,930)	

CITY OF SPRINGFIELD, MASSACHUSETTS
Budget and Actual - General Fund
Expenditures and Encumbrances
For the period ended
08/31/16

Expenditures and Other Uses:

	Original Budget	Transfers In/(Out)	Revised Budget	Expenditure	Encumbrance	Variance Over/(Under)	%
General government	21,912,729	-	21,912,729	3,376,009	2,094,031	16,442,690	25%
Public safety							
Police	43,166,081	-	43,166,081	5,637,274	617,935	36,910,871	14%
Fire	21,316,555	-	21,316,555	3,219,375	319,229	17,777,951	17%
Centralized Dispatch	1,909,826	-	1,909,826	330,140	184	1,579,501	17%
Other	3,993,452	-	3,993,453	414,918	637,906	2,940,628	26%
Health and Welfare	4,738,092	-	4,738,092	587,969	150,177	3,999,946	16%
Public works	10,054,484	-	10,054,484	4,089,064	620,919	5,344,501	47%
Education	394,423,973	2,000,000	396,423,973	30,871,483	30,521,086	335,031,403	15%
Culture and recreation	12,686,840	-	12,686,840	2,161,200	1,497,051	9,028,589	29%
Pension and fringe	58,368,139	-	58,368,139	34,751,699	990,000	22,626,440	61%
State and district assessments	3,519,143	-	3,519,143	589,805	-	2,929,338	17%
Debt Service	34,070,027	-	34,070,027	23,455,050	-	10,614,977	69%
Pay as you go Capital	3,362,442	-	3,362,442	-	358,728	3,003,714	11%
Other Financing Use - Trash Enterprise Supplement	3,286,181	-	3,286,181	3,286,181	-	-	100%
Total Expenditures and Other Uses	616,807,963	2,000,000	618,807,963	112,770,169	37,807,247	468,230,548	24%



City Council
36 Court Street
Springfield, MA 01103

Meeting: 10/03/16 07:00 PM
Department: Department of Public Works
Category: General
Prepared By: Hector Velez
Initiator: Hector Velez
Sponsors: Mayor Domenic J. Sarno
DOC ID: 3628

TABLED

PETITION (ID # 3628)

Mobilitie Utility Petition

CITY OF SPRINGFIELD, MASSACHUSETTS

Date: August 16, 2016

TO THE MAYOR AND CITY COUNCIL OF THE CITY OF SPRINGFIELD:

The Board of Public Works, to which was referred the petition of Mobilitie dated July 11, 2016 to install a high-speed network antenna on Benton Street. One network antenna will be install south side of Benton Street, to be located on the tree belt approximately fifty five (55') feet from State Street southeasterly direction. The purpose of the high speed network antenna is to provide wireless service around the area, all as substantially shown on a plan attached, referred to CT90XS528B Benton Street, which is incorporated herein by reference and to lay and maintain underground laterals, cables and wires in the above public ways for the purpose of making connections with the pole as it may desire for distributing purposes, reports thereon as follows:

By virtue of Chapter 708 of the Acts of 1977 the Board of Public Works held the hearing on the above matter provided for in Section 22 of Chapter 166 of the General Laws. The hearing was held on August 15, 2016 at 5:00 P.M. at the parking lot of #1219 State Street Springfield, MA. Two (2) members of the Board and two (2) persons interested in the matter were present. Of the latter, two (2) voted in favor of and no-one (0) voted against.

The Board finds the request necessary in order to provide high speed wireless network service to the business around the area.

After careful consideration, the Board recommends the petition be granted provided:

That due care for public safety is exercised during construction including but not limited to the use of a police officer(s) for traffic control if necessary.

That said construction would not unnecessarily interfere with the movement of vehicular or pedestrian traffic in the area.

That care be taken during said construction not to damage any underground services.

That the construction site be returned to the same condition as found or better.

Said company shall indemnify and save harmless against all damages, costs and expenses whatsoever to which the City may be subjected in consequence of the acts or neglect of said Company, its agents or servants, or in any manner arising from the rights and privileges granted it by the City.

In addition said company shall, before a public way is disturbed for the laying of its wire or conduit, execute its bond in the penal sum of Ten Thousand Dollars (\$10,000) conditioned for faithful performance of its duties under this permit.

Said company shall comply with the requirements of existing Ordinances and orders and comply with any changes in Ordinances and orders as may hereafter be adopted by the Mayor and Council governing the construction and maintenance of buried cable, conduits and wires.

That any sidewalks that are damaged or removed will be replaced in kind and in accordance with the City of Springfield's Standard Specifications.

That ramps for the handicapped will be provided if and where required by law and in conformance with the Rules and Regulations of the Massachusetts Architectural Barrier Board.

That any curbing that is disturbed during construction will be reset to the established street grade using proper construction procedures.

That due care be exercised not to unnecessarily damage any public shade trees located within the construction area.

That the Springfield Water and Sewer Commission be notified before construction begins. All installations of adjacent utilities must be a minimum of 4 feet from the existing water and/or sewer main, edge to edge of pipe.

That all conditions set forth in the respective order are complied with.

_____))
_____)) BOARD OF PUBLIC WORKS

HISTORY:

09/12/16 City Council

CONTINUE

Next: 10/03/16

RESULT: REFER TO COMMITTEE**Next: 10/17/2016 7:00 PM**

**DEPARTMENTAL AND INTERDEPARTMENTAL CORRESPONDENCES
CITY OF SPRINGFIELD
MASSACHUSETTS**

DATE: July 28, 2016

TO: Anthony I Wilson, Esq.
City Clerk

FROM: Hector Velez, DPW Engineer
on behalf of BPW

DEPARTMENT: City Clerk Office

SUBJECT: Board's agenda for:
August 15, 2016

NOTICE OF MEETING

Monday, August 15, 2016 —, At the parking lot of #1219 State Street, Springfield, MA at 5:00 P.M

Minutes of Previous Meeting
Communications
Old Business

MOBILITIE

New Business: Benton Street

HEARING RE: To install new utility pole to
Provide high-speed network.

Attachment: 8-15-2016 notice MOBILITIE (3628 : Mobilitie Utility Petition)

SITE ID: 9MAB000076
CT90XS528B
BENTON ST &
STATE ST
SPRINGFIELD, MA 01109



925B PEACHTREE ST. NE,
SUITE 710
ATLANTA, GA 30309
PHONE: (312) 638-5400

PROJECT NO: ER600201
DRAWN BY: J. BRAZA
CHECKED BY: S. BO

DIG ALERT



TWO WORKING DAYS BEFORE YOU DIG

PROJECT DESCRIPTION

END USER PROPOSES TO INSTALL EQUIPMENT ON A PROPOSED WOOD UTILITY POLE WITHIN AN EXISTING RIGHT-OF-WAY. THE SCOPE WILL CONSIST OF THE FOLLOWING:

- INSTALL PROPOSED BACKHAUL TRANSPORT EQUIPMENT ON A PROPOSED WOOD UTILITY POLE

CODES

2015 INTERNATIONAL BUILDING CODE
2014 NATIONAL ELECTRICAL CODE

DRAWING INDEX

SHEET NO:	SHEET TITLE
0.0	TITLE SHEET
1.0	SITE PLAN & EXHIBIT PHOTO
2.0	POLE ELEVATIONS
2.1	POLE ELEVATIONS
3.0	ANTENNA & EQUIPMENT MOUNTING DETAILS
3.1	ANTENNA & EQUIPMENT DETAILS
4.0	ELECTRICAL DETAILS
5.0	GROUNDING DETAILS
GN-1	GENERAL NOTES
GN-2	GENERAL NOTES
6.0	TRAFFIC CONTROL PLAN
6.1	TYPICAL PEDESTRIAN / WORKER SAFETY PLAN

ARCHITECT/ENGINEER

JACOBS ENGINEERING GROUP, INC.
5449 BELLS FERRY ROAD
ACWORTH, GA 30102
CONTACT: KARL KRATINA
PROJECT MANAGER
TEL: (678) 460-1416
FAX: (770) 701-2501

GENERAL NOTES

THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OF EFFECT ON DRAINAGE; NO SANITARY SEWER SERVICE, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS PROPOSED.

SITE INFORMATION

PROPERTY OWNER: PUBLIC RIGHT-OF-WAY
ADDRESS/CROSS ST: BENTON ST & STATE ST

APPLICANT: MOBILITIE, LLC

APPLICANT ADDRESS: 925B PEACHTREE ST. NE, SUITE 710
ATLANTA, GA 30309
PHONE: (312) 638-5400

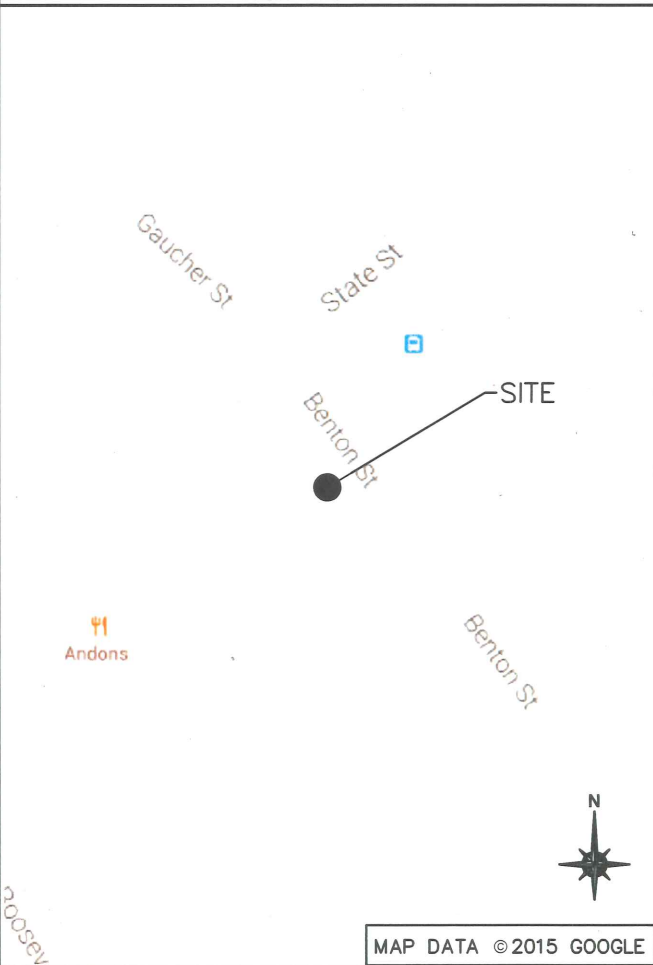
LATITUDE: 42° 6' 58.05" N (42.116124)
LONGITUDE: 72° 32' 58.58" W (-72.549606)
LAT/LONG TYPE: NAD 83
GROUND ELEVATION: ± 199' AMSL
COUNTY: HAMPDEN COUNTY
JURISDICTION: CITY OF SPRINGFIELD

BEFORE SCALING:

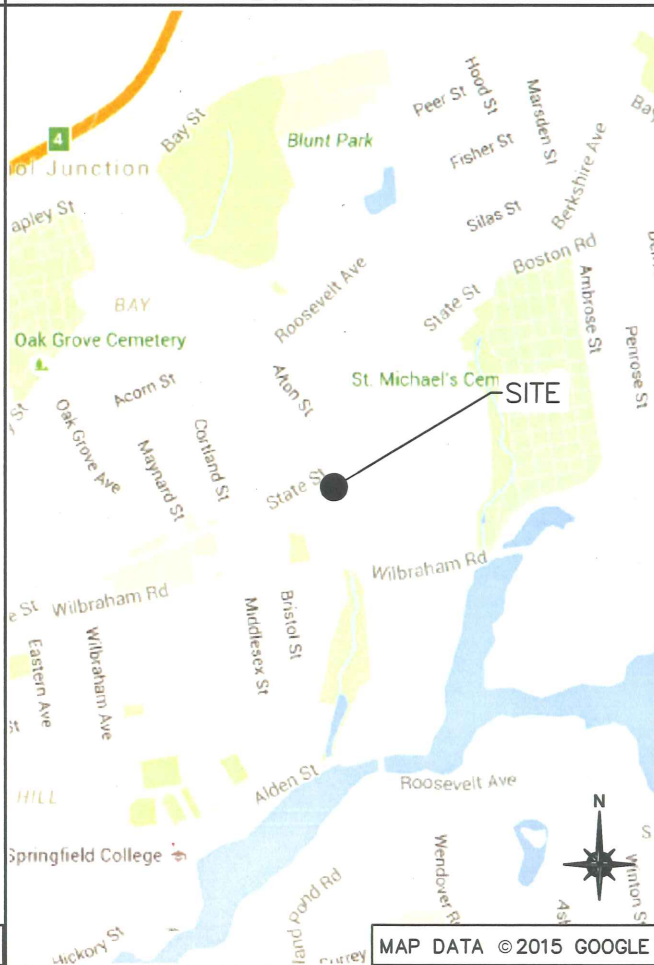
CONTRACTORS SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS & FIELD CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

LOCATION MAPS

VICINITY MAP



REGIONAL MAP



PRELIMINARY

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT

CT90XS528B
9MAB000076
BENTON ST &
STATE ST
SPRINGFIELD, MA 01109
UTILITY POLE

SHEET TITLE

TITLE SHEET

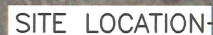
SHEET NUMBER

0.0



SCALE: NOT TO SCALE

1



SCALE: NOT TO SCALE

2



NOTE:
THIS SITE PLAN WAS GENERATED WITHOUT THE USE
OF A SURVEY. PROPERTY LINES, POWER & TELCO
UTILITY POINT CONNECTIONS/ROUTES AND EASEMENTS
SHOWN ON THESE PLANS ARE ESTIMATED. ALL ITEMS
AND DIMENSIONS SHOULD BE VERIFIED IN THE FIELD.

SCALE: 1"=20'-0" (1"=10'-0" ON 22"x34" SHEET)

3



CHECKED BY: S. BO

A	06.08.16	FOR REVIEW

PRELIMINARY

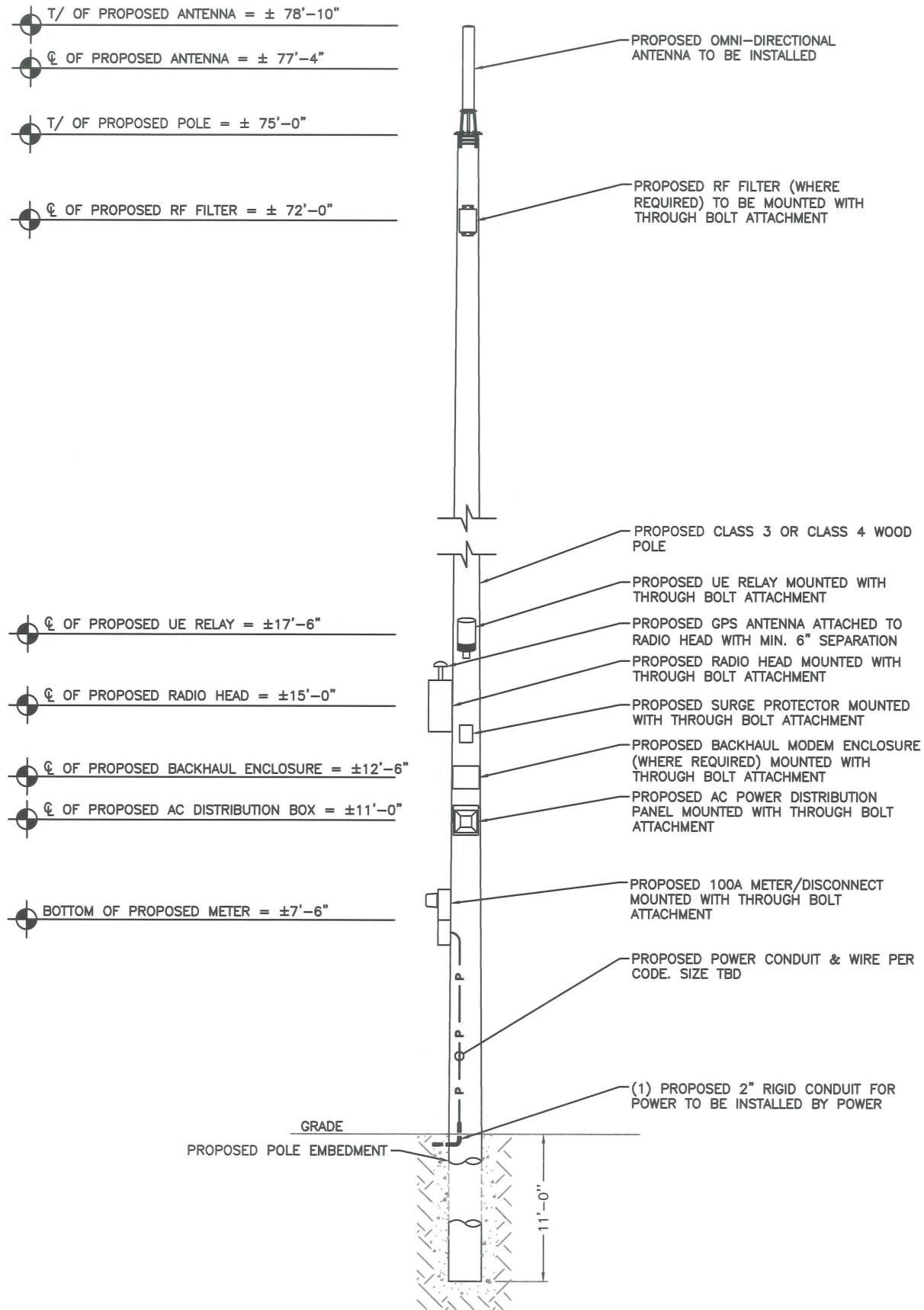
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SHEET TITLE

SITE PLAN & EXHIBIT PHOTO

SHEET NUMBER

1.0



NOTE:
PROJECT SCOPE OF WORK DOES NOT INCLUDE A STRUCTURAL EVALUATION OF THIS POLE OR STRUCTURE. NEW EQUIPMENT SHOWN ON THIS PLAN HAVE NOT BEEN EVALUATED TO VERIFY THE POLE OR STRUCTURE HAS THE CAPACITY TO ADEQUATELY SUPPORT THE EQUIPMENT. PRIOR TO ANY INSTALLATION, A STRUCTURAL EVALUATION OF THE POLE OR STRUCTURE SHOULD BE PERFORMED.

- NOTES:
1. ALL HARDWARE SHALL BE STAINLESS STEEL.
 2. ALL CABLES SHALL BE SECURED TO POLE EVERY 36" OR LESS.
 3. LIGHTNING RODS SHALL BE INCLUDED AS REQUIRED.
 4. STRUCTURAL BACKFILL TO BE COMPACTED IN 8" MAXIMUM LAYERS TO 95% OF CONTENT IN ACCORDANCE WITH ASTM D698. ADDITIONALLY, STRUCTURAL BACKFILL MUST HAVE A MINIMUM COMPACTED UNIT WEIGHT OF 100 POUNDS PER CUBIC FOOT (16kN/m3)

BAND 41 (2500MHz) EQUIPMENT CHART			
QUANTITY	DESCRIPTION	DIMENSIONS (HxWxD)	WEIGHT
1	MOUNTED ANTENNA	35.4" X 4.7" DIAMETER	11 LBS
1	MOUNTED RADIO	20.1" X 9.1" X 8.9"	55.1 LBS
1	GPS ANTENNA	0.8" X 2.6" DIAMETER	0.3 LBS
1	AC DISTRIBUTION	9.25" X 9.5" X 3.81"	14 LBS
1	REJECT FILTER	13.6" X 8.1" X 2.4"	7.7 LBS
1	MOUNTED RELAY	13.0" X 7.9" DIAMETER	9.9 LBS
1	SURGE PROTECTOR	6.44" X 4.69" X 3.5"	TBD

PROPOSED FRONT POLE ELEVATIONS

SCALE: 1" = 5'

1

mobilitie
intelligent infrastructure

925B PEACHTREE ST. NE,
SUITE 710
ATLANTA, GA 30309
PHONE: (312) 638-5400

PROJECT NO: ER600201
DRAWN BY: J. BRAZA
CHECKED BY: S. BO

A 06.08.16 FOR REVIEW

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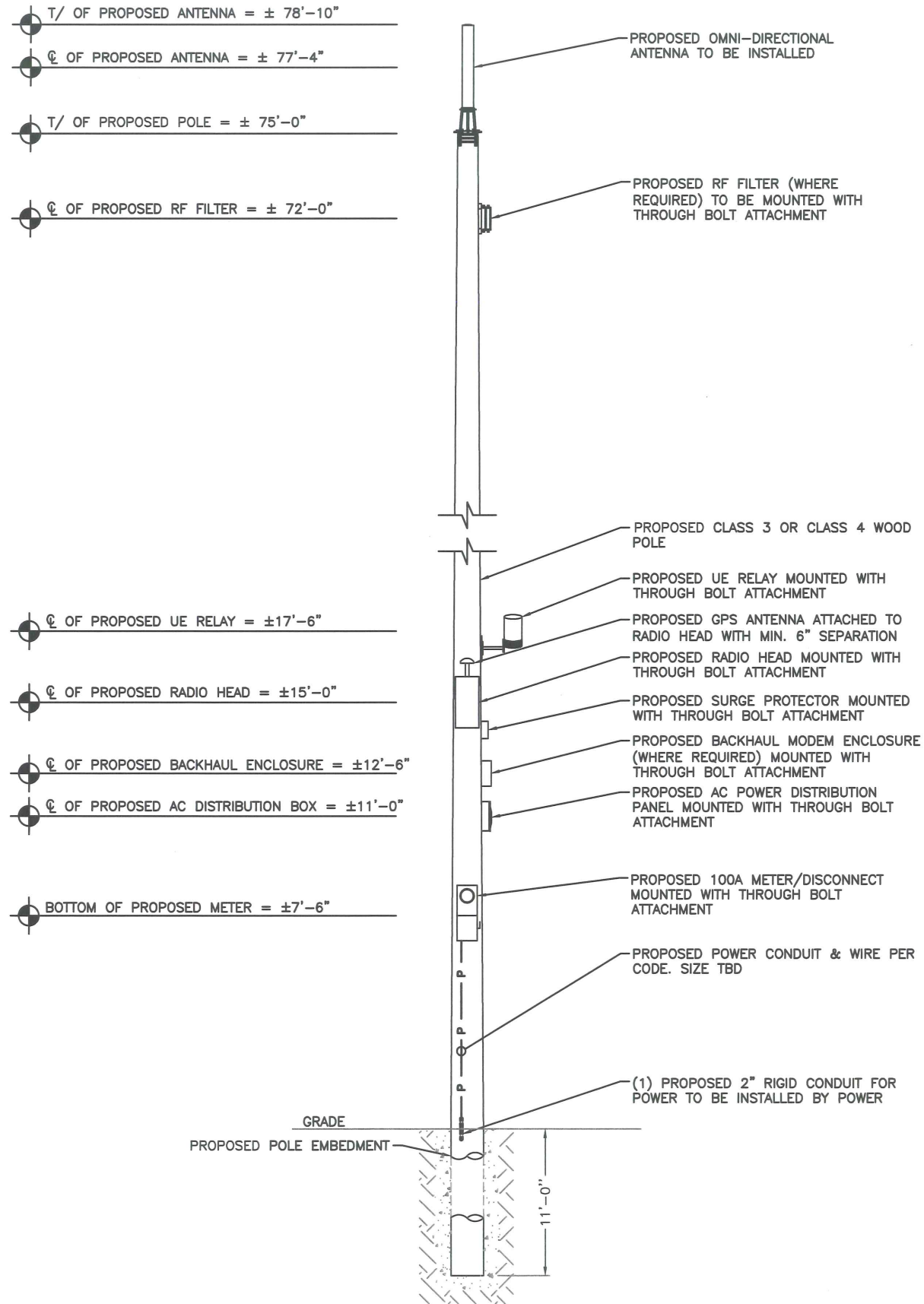
CT90XS528B
9MAB000076
BENTON ST &
STATE ST
SPRINGFIELD, MA 01109
UTILITY POLE

SHEET TITLE
POLE ELEVATIONS

SHEET NUMBER

2.0

Attachment: Mobilitee plan & letter (3628 : Mobilitee Utility Petition)



NOTE:
PROJECT SCOPE OF WORK DOES NOT INCLUDE A STRUCTURAL EVALUATION OF THIS POLE OR STRUCTURE. NEW EQUIPMENT SHOWN ON THIS PLAN HAVE NOT BEEN EVALUATED TO VERIFY THE POLE OR STRUCTURE HAS THE CAPACITY TO ADEQUATELY SUPPORT THE EQUIPMENT. PRIOR TO ANY INSTALLATION, A STRUCTURAL EVALUATION OF THE POLE OR STRUCTURE SHOULD BE PERFORMED.

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BAND 41 (2500MHz) EQUIPMENT CHART			
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mobilitie
intelligent infrastructure

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SPRINGFIELD, MA 01109
UTILITY POLE

SHEET TITLE

POLE ELEVATIONS

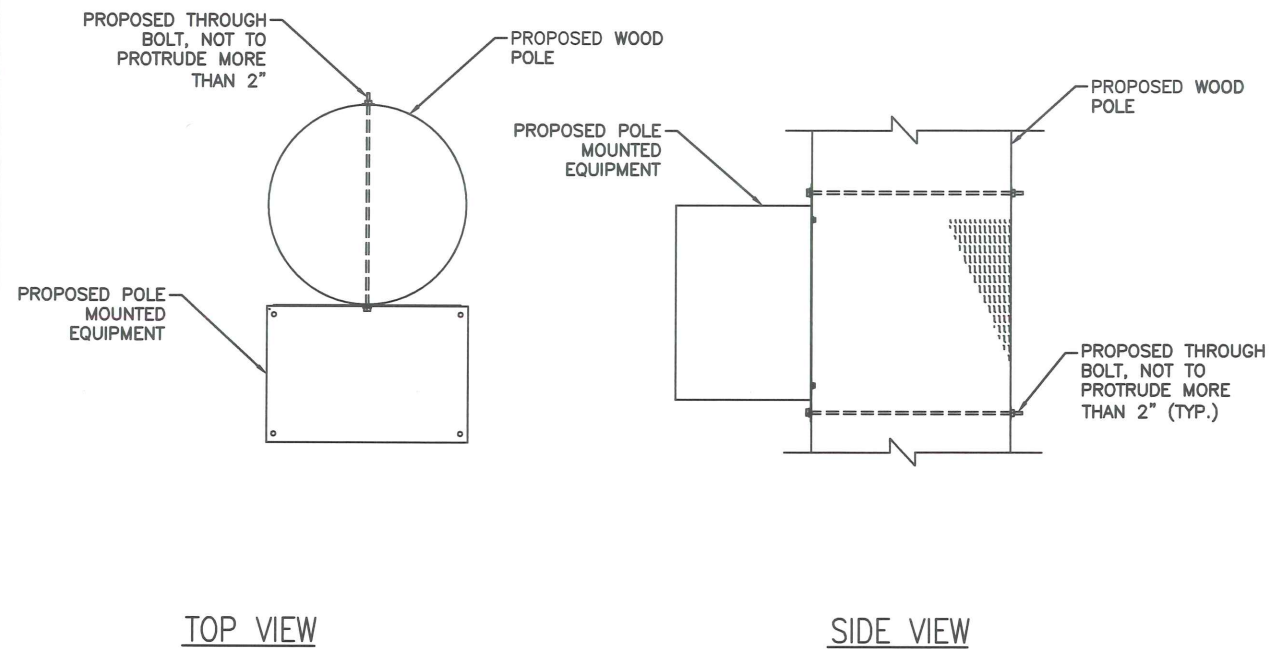
SHEET NUMBER

2.1

PROPOSED SIDE POLE ELEVATIONS

SCALE: 1" = 5'

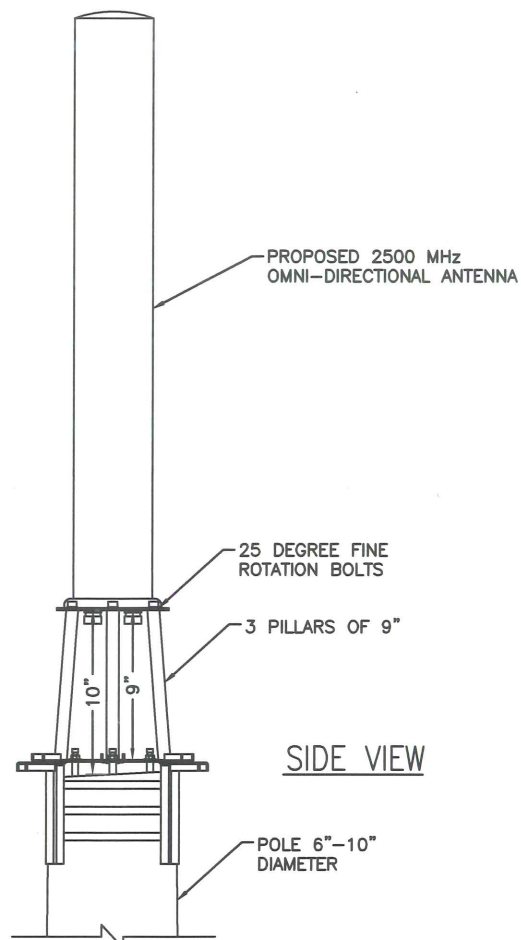
1



EQUIPMENT MOUNTING DETAIL

SCALE: NOT TO SCALE

1



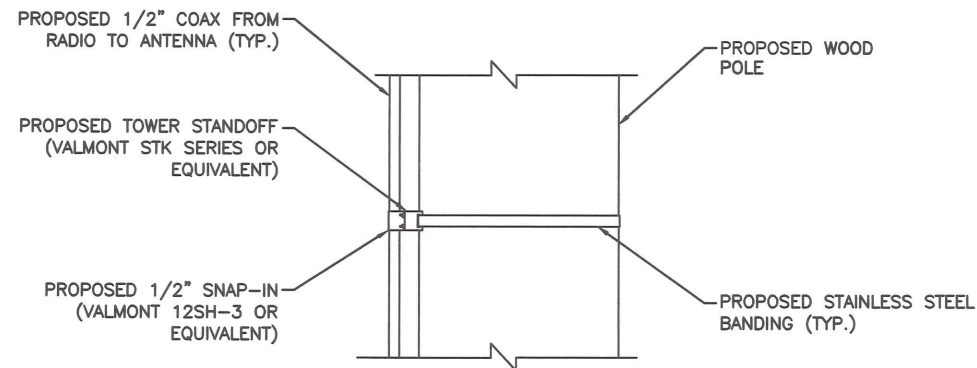
NOTE:

1. MOUNTING BRACKET ACCOMMODATES POLE SIZES FROM 3" TO 10" DIAMETER.
2. JACOBS HAS NOT PERFORMED A STRUCTURAL EVALUATION FOR THE MOUNTING BRACKET. REFER TO THE MANUFACTURER FOR ADDITIONAL INFORMATION.

ANTENNA MOUNTING DETAIL

SCALE: NOT TO SCALE

3



NOTE:
SPACE SNAP-INS PER
CABLE MANUFACTURER'S
SPECIFICATIONS

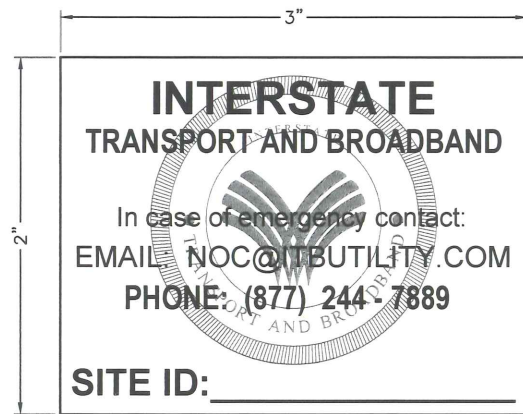
CABLE MOUNTING DETAIL

SCALE: NOT TO SCALE

2



ANTENNA SIGNAGE: — SIGN ON ALUMINUM WITH SS SCREW TO THE POLE
ON WOOD POLES — ADHESIVE VINYL OR PLACARD STRAPPED WITH SS
TIES
ON CONCRETE / COMPOSITE — PLACARD STRAPPED WITH SS TIES
SIGN PLACEMENT:
AFFIX TO THE STRUCTURE 3-4' BELOW THE COMMERCIAL RF ANTENNA(S)
SIZE APPROX. 8" x 5.5"



OWNER / OPERATOR NOTE:
SITE ID LABEL TO BE AFFIXED WITH TZeS241 LABELING TAPE OR EQUIVALENT BLACK ON WHITE LABELING TAPE OF AT LEAST 18mm WIDTH WITH EXTRA-STRENGTH ADHESIVE. USE ANY COMPATIBLE P-TOUCH LABEL MAKER. TEXT SHOULD BE PRINTED IN ALL CAPS WITH A MINIMUM HEIGHT OF 1/2".

POLE MOUNTED SIGNS

SCALE: NOT TO SCALE

4



925B PEACHTREE ST. NE,
SUITE 710
ATLANTA, GA 30309
PHONE: (312) 638-5400

PROJECT NO: ER600201

DRAWN BY: J. BRAZA

CHECKED BY: S. BO

A	06.08.16	FOR REVIEW

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9MAB000076
BENTON ST &
STATE ST
SPRINGFIELD, MA 01109
UTILITY POLE

SHEET TITLE

ANTENNA & EQUIPMENT MOUNTING DETAILS

SHEET NUMBER

3.0

WORK INCLUDES:

THESE NOTES AND ACCOMPANYING DRAWINGS COMPLEMENT THE PROVISIONS AND INSTALLATIONS BY THE ELECTRICAL CONTRACTOR, OF ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO INSTALL THE ELECTRICAL WORK COMPLETE IN CONNECTION WITH THIS UTILITY SITE AND SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:

1. THE PROVISIONS, INSTALLATION AND CONNECTION OF A GROUNDING ELECTRODE SYSTEM COMPLETE WITH SECONDARY GROUNDING, AND CONNECTIONS TO THE INCOMING ELECTRICAL DISTRIBUTION EQUIPMENT.
2. THE PROVISION AND INSTALLATION OF AN OVERHEAD ELECTRICAL SERVICE OR UNDERGROUND ELECTRICAL SERVICE AND ALL ASSOCIATED WIRE AND CONDUIT AS REQUIRED AND/OR INDICATED ON PLANS.
3. THE PROVISION AND INSTALLATION OF CONDUIT AND CONNECTIONS FOR LOCAL FIBER SERVICE.
4. THE FURNISHING AND INSTALLATION OF THE ELECTRICAL SERVICE ENTRANCE CONDUCTORS, CONDUITS, METER SOCKET, AND CONNECTIONS TO THE SERVICE EQUIPMENT.
5. ALL CONDUITS SHOULD BE LEFT WITH NYLON PULL CORD FOR FUTURE USE.
6. EXCAVATION, TRENCHING, AND BACKFILLING FOR CONDUIT(S), CABLE(S) AND EXTERNAL GROUNDING SYSTEM.

CODES, PERMITS AND FEES:

1. ALL REQUIRED PERMITS, LICENSES, INSPECTIONS AND APPROVALS SHALL BE SECURED AND ALL FEES FOR SAME PAID BY CONTRACTOR.
2. THE INSTALLATION SHALL COMPLY WITH ALL APPLICABLE CODES: STATE, LOCAL AND NATIONAL AND THE DESIGN, PERFORMANCE CHARACTERISTICS AND METHODS OF CONSTRUCTION OF ALL ITEMS AND EQUIPMENT SHALL BE IN ACCORDANCE WITH THE LATEST ISSUE OF THE VARIOUS APPLICABLE STANDARD SPECIFICATIONS OF THE FOLLOWING AUTHORITIES:
 - N.E.C. NATIONAL ELECTRICAL CODE
 - A.N.S.I. AMERICAN NATIONAL STANDARDS INSTITUTE
 - I.E.E.E. INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
 - A.S.T.M. AMERICAN SOCIETY FOR TESTING MATERIALS
 - N.E.M.A. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
 - U.L. UNDERWRITERS LABORATORIES, INC.
 - N.F.P.A. NATIONAL FIRE PROTECTION ASSOCIATION

RACEWAYS AND WIRING:

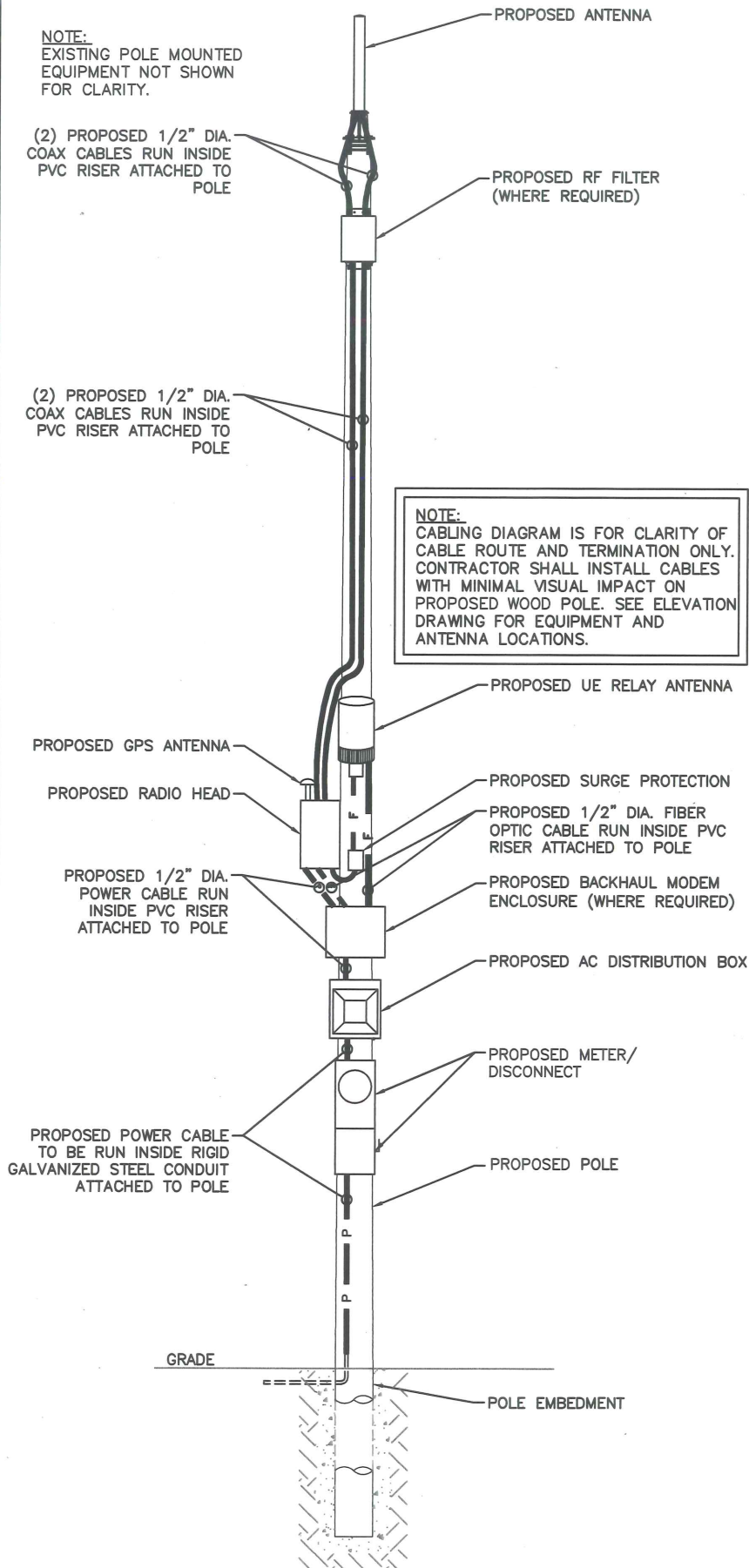
1. WIRING OF EVERY KIND MUST BE INSTALLED IN CONDUIT, UNLESS NOTED OTHERWISE, OR AS APPROVED BY THE ARCHITECT/ENGINEER.
2. UNLESS OTHERWISE SPECIFIED, ALL WIRING SHALL BE COPPER (CU) TYPE THWN, SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND LOCAL CODES.
3. RACEWAYS SHALL BE GALVANIZED STEEL, SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND LOCAL CODES UNLESS OTHERWISE NOTED. ALL RACEWAYS SHALL BE APPROVED FOR THE INSTALLATION.
4. PULL OR JUNCTION BOXES SHALL BE PROVIDED AS REQUIRED TO FACILITATE INSTALLATION OF RACEWAYS AND WIRING. PROVIDE JUNCTION AND PULLBOXES FOR CONDUIT RUNS WITH MORE THAN (360) DEGREES OF BENDS.
5. PROVIDE A COMPLETE RACEWAY AND WIRING INSTALLATION, PERMANENTLY AND EFFECTIVELY GROUNDING IN ACCORDANCE WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE AND LOCAL CODES.
6. ALL STEEL CONDUIT SHALL BE BONDED AT BOTH ENDS WITH GROUNDING BUSHING.

GENERAL NOTES:

SEE DETAILS, SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND INFORMATION. CHECK ARCHITECTURAL, STRUCTURAL, AND OTHER MECHANICAL AND ELECTRICAL DRAWINGS FOR SCALE, SPACE LIMITATIONS, COORDINATION, AND ADDITIONAL INFORMATION, ETC. REPORT ANY DISCREPANCIES, CONFLICTS, ETC. TO ARCHITECT/ENGINEER BEFORE SUBMITTING BID. ALL EQUIPMENT FURNISHED BY OTHERS (FBO) SHALL BE PROVIDED WITH PROPER MOTOR STARTERS, DISCONNECTS, CONTROLS, ETC. BY THE ELECTRICAL CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE. THE ELECTRICAL CONTRACTOR SHALL INSTALL AND COMPLETELY WIRE ALL ASSOCIATED EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S WIRE DIAGRAMMS AND AS REQUIRED FOR A COMPLETE OPERATING INSTALLATION. ELECTRICAL CONTRACTOR SHALL VERIFY AND COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF (FBO) EQUIPMENT PRIOR TO ROUGH-IN OF CONDUIT AND WIRING TO AVOID CONFLICTS.

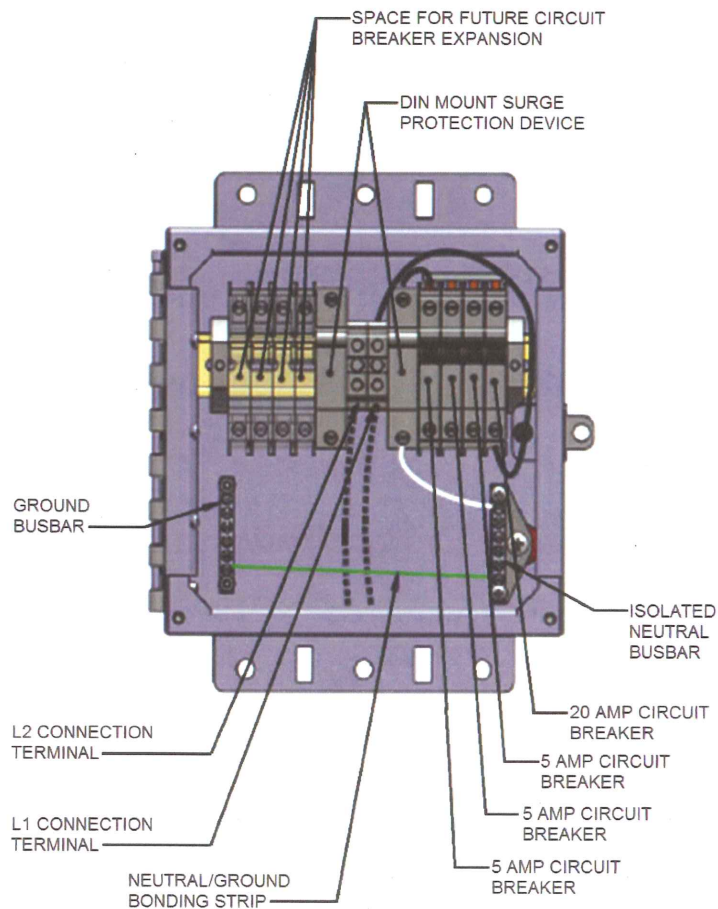
COORDINATION WITH UTILITY COMPANY:

THE ELECTRICAL CONTRACTOR SHALL COORDINATE COMPLETE ELECTRICAL SERVICE WITH LOCAL UTILITY COMPANY FOR A COMPLETE OPERATIONS SYSTEM, INCLUDING TRANSFORMER CONNECTIONS, CONCRETE TRANSFORMER PADS, IF REQUIRED, METER SOCKETS, PRIMARY CABLE RACEWAY REQUIREMENTS, SECONDARY SERVICE, ETC. PRIOR TO SUBMITTING BID TO INCLUDE ALL LABOR AND MATERIALS. THE ELECTRICAL CONTRACTOR SHALL INCLUDE IN THE BID ANY OPTIONAL OR EXCESS FACILITY CHARGES ASSOCIATED WITH PROVIDING ELECTRICAL SERVICE FROM LOCAL UTILITY COMPANY. VERIFY BEFORE BIDDING TO INCLUDE ALL COSTS. THE ELECTRICAL CONTRACTOR SHALL VERIFY THE AVAILABLE FAULT CURRENT WITH THE LOCAL UTILITY COMPANY PRIOR TO SUBMITTING BID. ADJUST A.I.C. RATINGS OF ALL OVER CURRENT PROTECTION DEVICES IN DISTRIBUTION EQUIPMENT AS REQUIRED TO COORDINATE WITH AVAILABLE FAULT CURRENT FROM LOCAL UTILITY COMPANY.



CABLING NOTES:

- A) WOOD, CONCRETE AND EXISTING METALLIC POLES
 - I) FROM GRADE LINE TO 11'-0" ABOVE GRADE, ALL CABLES/CONDUCTORS EXCEPT GROUNDING CONDUCTOR MUST RUN IN RIGID GALVANIZED STEEL CONDUIT (RGS)
 - II) GROUNDING CONDUCTORS IN EXPOSED LOCATIONS MUST BE INSTALLED IN PVC.
 - III) IN EARTH INSTALL PVC CONDUIT FOR BACKHAUL AND ELECTRICAL SERVICE. TRANSITION TO RGS AT GRADE LINE.
 - IV) ABOVE 11'-0" ALL CABLES (POWER, ETHERNET, COAXIAL) MUST RUN IN PVC UTILITY POLE RISER.
 - (1) AT MAJOR EQUIPMENT, EXTEND UTILITY DUCT IMMEDIATELY ADJACENT TO THE EQUIPMENT. INSTALL CABLES IN THE UTILITY POLE RISER CREATING CABLE DRIP LOOPS NOT LESS THAN THE CABLE BENDING RADIUS.
 - (2) INSIDE THE UTILITY POLE RISER, UTILIZE 1/2" COAX BLOCKS WITH LAG SCREWS TO SUPPORT COAX, RADIO AND MW POWER, RF COAX, AND ETHERNET CABLES TO WITHIN 12" OF THE EQUIPMENT BEING SERVED AND ON INTERVALS NOT TO EXCEED 6'.
 - V) FOR UNDERGROUND HFC/PUBLIC BACKHAUL, ROUTE ETHERNET CABLE IN CONDUIT UP THE POLE AND ENTER THE UTILITY POLE RISER. SEAL EXPOSED END OF CONDUIT WITH A CABLE TERMINATION FITTING.
 - VI) BY APPROVAL IN SELECT CASES LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LFMC) MAY BE USED IN LENGTHS NOT TO EXCEED 36" TO EXTEND THE ELECTRICAL SERVICE CONDUIT TO THE AC DISTRIBUTION BOX. EXAMPLE: UTILITY-REQUIRED DISCONNECT ON POLE W/ AC DISTRIBUTION BOX ON OPPOSITE SIDE OF POLE.
- B) NEW METALLIC POLES
 - I) PROCURE NEW POLES WITH SUITABLE HAND HOLES SUCH THAT HAND HOLES EXIST AT ALL EQUIPMENT LOCATIONS.
 - (1) WITH CLIENT APPROVAL IN SELECT CASES TO FACILITATE IMPROVED APPEARANCE, 1/2" COAXIAL CABLES MAY BE "SUPERFLEX" IN LIEU OF LDF-4.
- II) WHERE POSSIBLE, INSTALL POLE BASE SUCH THAT THE ELECTRICAL FEED AND BACKHAUL (IF UNDERGROUND) CIRCUIT ENTER THE POLE THROUGH THE POLE BASE. IF A DISCONNECT MEANS SEPARATE FROM THE AC DISTRIBUTION BOX IS REQUIRED BY JURISDICTION OR UTILITY, WITH APPROVAL IN SELECT CASES LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LFMC) MAY BE USED IN LENGTHS NOT TO EXCEED 36" TO EXTEND THE ELECTRICAL SERVICE CONDUIT TO THE AC DISTRIBUTION BOX.



CABLING DIAGRAM

SCALE: NOT TO SCALE

1



925B PEACHTREE ST. NE,
SUITE 710
ATLANTA, GA 30309
PHONE: (312) 638-5400

PROJECT NO: ER600201

DRAWN BY: J. BRAZA

CHECKED BY: S. BO

A	06.08.16	FOR REVIEW
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PRELIMINARY

IT IS A VIOLATION OF THE LAW FOR ANY
PERSON, UNLESS THEY ARE ACTING UNDER THE
DIRECTION OF A LICENSED PROFESSIONAL
ENGINEER, TO ALTER THIS DOCUMENT

CT90XS528B
9MAB000076
BENTON ST &
STATE ST
SPRINGFIELD, MA 01109
UTILITY POLE

SHEET TITLE

ELÉCTRICAL DETAILS

SHEET NUMBER

4.0



NOTE:
GROUNDING RISER FOR DIAGRAMMATIC
PURPOSES ONLY. SEE ELEVATION
DRAWING FOR EQUIPMENT AND
ANTENNA LOCATIONS.

PRELIMINARY

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT

SHEET TITLE

GROUNDING DETAILS

SHEET NUMBER
5.0

THE CONSTRUCTION DOCUMENT DRAWINGS ARE INTERRELATED. WHEN PERFORMING THE WORK, EACH CONTRACTOR MUST REFER TO ALL DRAWINGS. COORDINATION IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

PART 1 – GENERAL

1. OBTAIN AND SUBMIT RELEASES ENABLING THE OWNER UNRESTRICTED USE OF THE WORK AND ACCESS TO SERVICES AND UTILITIES; INCLUDE OCCUPANCY PERMITS, OPERATING CERTIFICATES AND SIMILAR RELEASES.
2. SUBMIT RECORD DRAWINGS, DAMAGE OR SETTLEMENT SURVEY, PROPERTY SURVEY, AND SIMILAR FINAL RECORD INFORMATION.
3. COMPLETE FINAL CLEAN UP REQUIREMENT, INCLUDING TOUCH-UP PAINTING. TOUCH UP AND OTHERWISE REPAIR AND RESTORE MARRED EXPOSED FINISHES.

PART 2 - FINAL CLEANING

1. COMPLETE THE FOLLOWING CLEANING OPERATIONS BEFORE REQUESTING INSPECTION FOR CERTIFICATION ON COMPLETION.
 - A. CLEAN THE PROJECT SITE, YARD AND GROUNDS IN AREAS DISTURBED BY CONSTRUCTION ACTIVITIES, INCLUDING LANDSCAPE DEVELOPMENT AREA, OF RUBBISH, WASTE MATERIALS, LITTER AND FOREIGN SUBSTANCES. SWEEP PAVED AREAS BROOM CLEAN. REMOVE PETRO-CHEMICAL SPILLS, STAINS AND OTHER FOREIGN DEPOSITS. RAKE GROUNDS THAT ARE NEITHER PLANTED NOR PAVED, TO A SMOOTH EVEN-TEXTURED SURFACE.
 - B. REMOVE TOOLS, CONSTRUCTION EQUIPMENT, MACHINERY AND SURPLUS MATERIAL FROM THE SITE.
 - C. REMOVE SNOW AND ICE TO PROVIDE SAFE ACCESS TO THE SITE AND EQUIPMENT ENCLOSURE.
 - D. CLEAN EXPOSED EXTERIOR HARD SURFACED FINISHES TO A DIRT-FREE CONDITION, FREE OF STAINS, FILMS AND SIMILAR FOREIGN SUBSTANCES. AVOID DISTURBING NATURAL WEATHERING OF EXTERIOR SURFACES.
 - E. REMOVE DEBRIS FROM LIMITED ACCESS SPACES, INCLUDING HANDHOLES, MANHOLES, AND SIMILAR SPACES.
 - F. REMOVE LABELS THAT ARE NOT PERMANENT LABELS.
 - G. TOUCH UP AND OTHERWISE REPAIR AND RESTORE MARRED EXPOSED FINISHES AND SURFACES. REPLACE FINISHES AND SURFACES THAT CANNOT BE SATISFACTORILY REPAIRED OR RESTORED, OR THAT SHOW EVIDENCE OF REPAIR OR RESTORATION. DO NOT PAINT OVER "UL" AND SIMILAR LABELS, INCLUDING ELECTRICAL NAME PLATES.
 - H. LEAVE THE PROJECT CLEAN AND READY FOR OCCUPANCY.
 - I. DUST OFF ALL EQUIPMENT AND ITEMS WITHIN EQUIPMENT ENCLOSURE.
2. REMOVAL OF PROTECTION: REMOVE TEMPORARY PROTECTION AND FACILITIES INSTALLED DURING CONSTRUCTION TO PROTECT PREVIOUSLY COMPLETED INSTALLATIONS DURING THE REMAINDER OF THE CONSTRUCTION PERIOD.

PART 1 – GENERAL

3. WORK INCLUDED: SEE SITE PLAN.
2. DESCRIPTIONS: IF APPLICABLE, LEASE AREA, AND UNDERGROUND UTILITY EASEMENTS ARE TO BE CONSTRUCTED TO PROVIDE A WELL DRAINED, EASILY MAINTAINED, EVEN SURFACE FOR USE AND ACCESS.
3. QUALITY ASSURANCE
 - A. APPLY SOIL STERILIZER IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS (AS NEEDED).
 - B. APPLY AND MAINTAIN GRASS SEED AS RECOMMENDED BY THE SEED PRODUCER (IF REQUIRED).
 - C. PLACE AND MAINTAIN VEGETATION LANDSCAPING, IF INCLUDED WITHIN THE CONTRACT, AS RECOMMENDED BY NURSERY INDUSTRY STANDARDS.
4. SEQUENCING
 - A. CONFIRM SURVEY STAKES AND SET ELEVATION STAKES PRIOR TO ANY CONSTRUCTION.
 - B. CONSTRUCT TEMPORARY CONSTRUCTION AREA. DESIGNATED AREA TO BE APPROVED BY CONSTRUCTION MANAGER AND LOCAL AUTHORITIES.
 - C. APPLY SOIL STERILIZER PRIOR TO PLACING BASE MATERIALS.
 - D. GRADE, SEED, FERTILIZE, AND MULCH ALL AREAS DISTURBED BY CONSTRUCTION (INCLUDING UNDERGROUND UTILITY EASEMENTS) IMMEDIATELY AFTER BRINGING LEASE AREA TO BASE COURSE ELEVATION, WATER TO ENSURE GROWTH.
 - E. AFTER APPLICATIONS OF FINAL SURFACES, APPLY SOIL STERILIZER TO STONE SURFACES.

5. SUBMITTALS

- A. BEFORE CONSTRUCTION: IF LANDSCAPING IS APPLICABLE TO THE CONTRACT, SUBMIT TWO COPIES OF THE LANDSCAPE PLAN ON NURSERY LETTERHEAD. IF A LANDSCAPE ALLOWANCE WAS INCLUDED IN THE CONTRACT, PROVIDE AN ITEMIZED LISTING OF PROPOSED COSTS ON NURSERY LETTERHEAD
- B. AFTER CONSTRUCTION
1. MANUFACTURER'S DESCRIPTION OF PRODUCT AND WARRANTY STATEMENT ON SOIL STERILIZER.
 2. MANUFACTURER'S DESCRIPTION OF PRODUCT ON GRASS SEED AND FERTILIZER.
 3. LANDSCAPING WARRANTY STATEMENT

6. WARRANTY

- A. IN ADDITION TO THE WARRANTY ON ALL CONSTRUCTION COVERED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL REPAIR ALL DAMAGE AND RESTORE AREA AS CLOSE TO ORIGINAL CONDITION AS POSSIBLE AT SITE AND SURROUNDINGS.
- B. SOIL STERILIZATION APPLICATION TO GUARANTEE VEGETATION FREE AREAS FOR ONE YEAR FROM DATE OF FINAL INSPECTION.
- C. DISTURBED AREA WILL REFLECT GROWTH OF NEW GRASS COVER PRIOR TO FINAL INSPECTION.
- D. LANDSCAPING, IF INCLUDED WITHIN THE SCOPE OF THE CONTRACT, WILL BE GUARANTEED FOR ONE YEAR FROM DATE OF FINAL INSPECTION.

PART 2 - PRODUCTS

- ## 1. MATERIALS

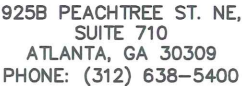
- A. SOIL STERILIZER SHALL BE EPA-REGISTERED, PRE-EMERGENCE LIQUID:

TOTAL KILL PRODUCT 910 EPA 10292-7 (313) 563-8000	PHASOR CORPORATION P.O. BOX 5123 DEARBORN, MI 48128
AMBUSH HERBICIDE EPA REGISTERED (800) 526-4924	FRAMAR INDUSTRIAL PRODUCTS 1435 MORRIS AVE. UNION, NJ 07083

- B. ROAD AND SITE MATERIALS SHALL CONFORM TO STATE AND LOCAL DOT SPECIFICATIONS FILL MATERIAL (UNLESS OTHERWISE NOTED) – ACCEPTABLE SELECT FILL SHALL BE IN ACCORDANCE WITH STATE DEPARTMENT OF HIGHWAY AND TRANSPORTATION STANDARD SPECIFICATIONS.
- C. SOIL STABILIZER FABRIC SHALL BE MIRAFI 500X.

PART 3 - EXECUTION

- INSPECTIONS: LOCAL BUILDING INSPECTORS SHALL BE NOTIFIED NO LESS THAN 48 HOURS IN ADVANCE OF CONCRETE POURS, UNLESS OTHERWISE SPECIFIED BY JURISDICTION
2. PREPARATION
- A. CLEAR BRUSH AND DEBRIS FROM LEASE AREA AND UNDERGROUND UTILITY EASEMENTS AS REQUIRED FOR CONSTRUCTION.
 - B. UNLESS OTHERWISE INSTRUCTED BY LESSEE, TRANSPORT ALL REMOVED TREES, BRUSH AND DEBRIS FROM THE PROPERTY TO AN AUTHORIZED LANDFILL.
 - C. PRIOR TO PLACEMENT OF FILL OR BASE MATERIALS, ROLL THE SOIL.
 - D. WHERE UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED, LINE THE AREAS WITH STABILIZER MAT PRIOR TO PLACEMENT OF FILL OR BASE MATERIAL.
3. INSTALLATION
- A. CLEAR EXCESS SPOILS, IF ANY, FROM JOB SITE AND DO NOT SPREAD BEYOND THE LIMITS OF PROJECT AREA UNLESS AUTHORIZED BY PROJECT MANAGER AND AGREED TO BY LANDOWNER.
 - B. PLACE FILL OR STONE IN SIX INCH (6") MAXIMUM LIFTS, AND COMPACT BEFORE PLACING NEXT LIFT.
 - C. APPLY SEED, FERTILIZER, AND STRAW COVER TO ALL OTHER DISTURBED AREAS, DITCHES, AND DRAINAGE SWALES, NOT OTHERWISE RIPRAPPED.
 - D. APPLY SEED AND FERTILIZER TO SURFACE CONDITIONS WHICH WILL ENCOURAGE ROOTING. RAKE AREAS TO BE SEED TO EVEN THE SURFACE AND LOOSEN THE SOIL.
 - E. SOW SEED IN TWO DIRECTIONS IN TWICE THE QUANTITY RECOMMENDED BY THE SEED PRODUCER.
 - F. ENSURE GROWTH OF SEED AND LANDSCAPED AREA, BY WATERING, UP TO THE POINT OF RELEASE FROM THE CONTRACT. CONTINUE TO REWORK THE BARE AREAS UNTIL COMPLETE COVERAGE IS OBTAINED.
4. FIELD QUALITY CONTROL: COMPACT SOILS TO MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D-1557. AREAS OF SETTLEMENT WILL BE EXCAVATED AND REFILLED AT CONTRACTOR'S EXPENSE. INDICATE PERCENTAGE OF COMPACTION ACHIEVED ON AS-BUILT DRAWINGS.
5. PROTECTION
- A. PROTECT SEEDED AREAS FROM EROSION BY SPREADING STRAW TO A UNIFORM LOOSE DEPTH OF 1-2 INCHES, STAKE AND TIE DOWN AS REQUIRED. USE OF EROSION CONTROL MESH OR MULCH NET WILL BE AN ACCEPTABLE ALTERNATE.
 - B. PROTECT ALL EXPOSED AREAS AGAINST WASHOUTS AND SOIL EROSION. PLACE STRAW BALES AT THE INLET APPROACH TO ALL NEW OR EXISTING CULVERTS. WHERE THE SITE OR ROAD AREAS HAVE BEEN ELEVATED IMMEDIATELY ADJACENT TO THE RAIL LINE, STAKE EROSION CONTROL FABRIC FULL LENGTH IN THE SWALE TO PREVENT CONTAMINATION OF THE RAIL BALLAST. ALL EROSION CONTROL METHODS SHALL CONFORM TO APPLICABLE BUILDING CODE REQUIREMENTS.



PROJECT NO:	ER600201
DRAWN BY:	J. BRAZA
CHECKED BY:	S. BO

A	06.08.16	FOR REVIEW

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DIRECTION OF A LICENSED PROFESSIONAL
ENGINEER, TO ALTER THIS DOCUMENT

CT90XS528B
9MAB000076
BENTON ST &
STATE ST
SPRINGFIELD, MA 01109
UTILITY POLE

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

GN-1



July 11, 2016

Administration
DPW
70 Tapley St
Springfield, MA 01104
413.736.3111

RE: Mobilitie LLC Street Opening Permit and Contractor Registration Submission - 9MAB000076

Dear Springfield DPW Administrator:

Please find the enclosed Mobilitie, LLC Street Opening Permit and Contractor License Registration for utility pole construction in your Town. Along with the permit application documents, you will find construction drawings and photo simulation for the facility. Mobilitie, LLC understands the application will likely not be approved until the committees and Public Improvement Commission ("PIC") are in agreement.

Mobilitie, LLC is a public utility company certified and regulated by the Massachusetts Department of Public Utilities to provide telephone-related services, such as facilities-based competitive local exchange and interexchange services. To meet the growing demand for connectivity, Mobilitie, LLC is deploying a hybrid transport network that provides high-speed, high-capacity bandwidth in order to facilitate the next generation of devices and data-driven services. This network can support a variety of technologies and services that require connectivity to the internet, including, but not limited to, driverless and connected vehicles (commercial, personal and agricultural), remote weather stations and mobile service providers. These transport utility poles and facilities are not dedicated to any particular customer and, to the extent capacity on the structures is available, are available to be used by other entities, including the City of Springfield.

Mobilitie, LLC plans to construct the applied-for utility transport within the next 18 months and formally requests that the Town identify a single point of contact to streamline the communications process regarding the application for the benefit of both parties.

Mobilitie, LLC's hybrid transport network is an industry-changing approach that seeks to improve backhaul connectivity for the Town's residents. We are excited to work with the City of Springfield and are available to answer questions. Please do not hesitate to contact me at (470) 240-3269 or sschneider@mobilitie.com.

Thank you for your attention to this matter.

Respectfully submitted,

A handwritten signature in blue ink, appearing to read "Scott Schneider".

Scott Schneider
Network Real Estate Specialist

*Enclosures



City Council
36 Court Street
Springfield, MA 01103

Meeting: 10/03/16 07:00 PM
Department: Department of Public Works
Category: General
Prepared By: Hector Velez
Initiator: Hector Velez
Sponsors: Mayor Domenic J. Sarno
DOC ID: 3629 A

ADOPTED

PETITION (ID # 3629)

Main Street (VERIZON)

CITY OF SPRINGFIELD, MASSACHUSETTS

Date: August 18, 2016

TO THE MAYOR AND CITY COUNCIL OF THE CITY OF SPRINGFIELD:

The Board of Public Works, to which was referred the petition of Verizon New England dated July 12, 2016, to install underground conduit and manholes with cable in Main Street , beginning at existing manhole (#5208), which is located at the intersection of Main Street and State Street, with six (6) PVC four inches (4") conduits running southerly direction on top of the existing Verizon conduits, parallel to the westerly curb 7 feet off curb line on Main Street approximately one thousand forty (1,040) feet to manhole (#5253) located in the intersection of Main Street and Union Street., all as substantially shown on a plan attached, dated 6/21/2016 Title 1A1MU8Y Main Street, which is incorporated herein by reference and to lay and maintain underground cables and Fiber Optic lines in public ways for the purpose to provide for distribution of intelligence and telecommunications, reports thereon as follows:

By virtue of Chapter 708 of the Acts of 1977 the Board of Public Works held the hearing on the above matter provided for in Section 22 of Chapter 166 of the General Laws. The hearing was held on August 17, 2016 at 5:00 P.M. at the corner of Cross Street and Main Street, after due notice from the office of the City Clerk. Two (2) members of the Board and two (2) person interested in the matter were present. Of the latter, two (2) voted in favor of and no-one (0) voted against.

The Board finds the request necessary in order that the company can expand the infrastructure of utilities and provide telecommunications to the area.

After careful consideration, the Board recommends the petition be granted provided:

That due care for public safety is exercised during construction including but not limited to the use of a police officer(s) for traffic control if necessary.

That said construction would not unnecessarily interfere with the movement of vehicular or pedestrian traffic in the area.

That care be taken during said construction not to damage any underground services.

That the construction site be returned to the same condition as found or better. Said company shall indemnify and save harmless against all damages, costs and expenses whatsoever to which the City may be subjected in consequence of the acts or neglect of said Company, its agents or servants, or in any manner arising from the rights and privileges granted it by the City.

In addition said company shall, before a public way is disturbed for the laying of its wire or conduit, execute its bond in the penal sum of Ten Thousand Dollars (\$10,000) conditioned for faithful performance of its duties under this permit.

Said company shall comply with the requirements of existing Ordinances and orders and comply with any changes in Ordinances and orders as may hereafter be adopted by the Mayor and Council governing the construction and maintenance of buried cable, conduits and wires.

That any sidewalks that are damaged or removed will be replaced in kind and in accordance with the City of Springfield's Standard Specifications.

That ramps for the handicapped will be provided if and where required by law and in conformance with the Rules and Regulations of the Massachusetts Architectural Barrier Board.

That any curbing that is disturbed during construction will be reset to the established street grade using proper construction procedures.

That all proposed silo, manhole and hexhole covers will conform to and be compatible with established street, tree belt or sidewalk grades with suitable non-skid covers when in the sidewalk area.

That the Springfield Water and Sewer Commission be notified before construction begins. All installations of adjacent utilities must be a minimum of 4 feet from the existing water and/or sewer main, edge to edge of pipe.

That asphalt trench restoration be done in accordance with the City of Springfield DPW requirements.

That all conditions set forth in the respective order are complied with.

_____))
_____)) BOARD OF PUBLIC WORKS
_____))

HISTORY:**09/12/16** City Council**REFER TO COMMITTEE****Next: 10/03/16****RESULT: RECEIVED PASSED**



MASSACHUSETTS DEPARTMENT OF TRANSPORTATION HIGHWAY DIVISION

INFRASTRUCTURE IMPROVEMENTS NORTH END AND BRIGHTWOOD (NORTHERLY SEGMENT) IN THE CITY OF **SPRINGFIELD** HAMPDEN COUNTY

SPRINGFIELD NORTH END/BRIGHTWOOD – NORTH SEGMENT			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	1	145
PROJECT FILE NO. 605222			
TITLE & INDEX SHEET			

REFERENCE MANUALS

THE 1988 MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, AS AMENDED; THE SUPPLEMENTAL SPECIFICATIONS DATED JUNE 15, 2012; THE INTERIM SUPPLEMENTAL SPECIFICATIONS DATE MARCH 21, 2014; THE 2012 CONSTRUCTION STANDARD DETAILS; THE 2009 "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (MUTCD)"; THE 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS; THE 1968 "STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING"; AND LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, WILL GOVERN.

INDEX

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4.-7.

8.-28.

29.-34.

35.-55.

56.-80.

81.-82.

83.-89.

90.-94.

95.-105.

106.-145.
- TITLE & INDEX SHEET

LEGEND & GENERAL NOTES

KEY PLANS

TYPICAL SECTIONS & PAVEMENT NOTES

GENERAL PLAN

PROFILES

ALIGNMENT PLANS

TRAFFIC PLANS

SIGN SUMMARY

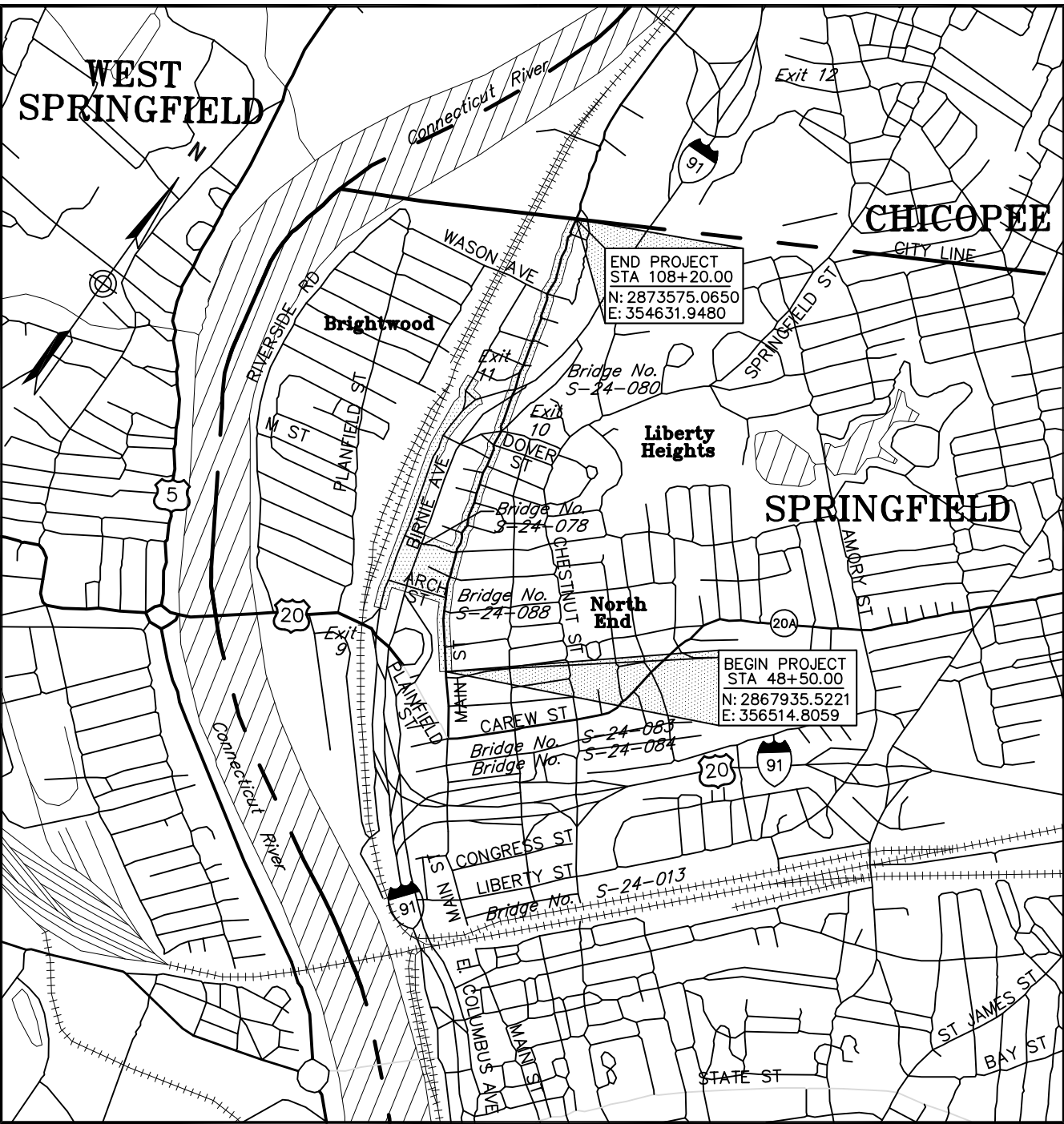
TRAFFIC DETAILS

TEMPORARY TRAFFIC CONTROL PLANS

CONSTRUCTION DETAILS

CROSS SECTIONS

FEDERAL AID PROJECT NO:



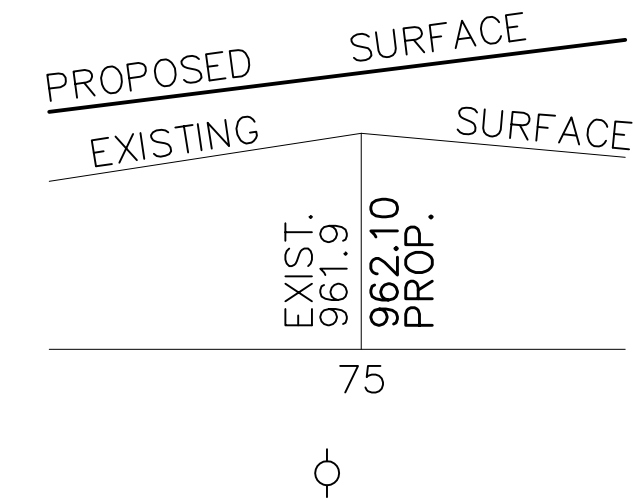
DESIGN DESIGNATION

MAIN STREET	
POSTED SPEED	= NOT POSTED
DESIGN SPEED	= 40MPH
ADT (2007)	= 11,800 VPD
ADT (2017)	= 13,500 VPD
K	= 9%
D	= 55% (NB)
T (PEAK HOUR)	= 12%
T (AVERAGE DAY)	= 13%
DHV	= 1,220 VPH
DDHV	= 670 VPH (NB)
FUNCTIONAL CLASSIFICATION = URBAN MINOR ARTERIAL	

BIRNIE AVENUE	
POSTED SPEED	= NOT POSTED
DESIGN SPEED	= 40MPH
ADT (2007)	= 16,200 VPD
ADT (2017)	= 17,900 VPD
K	= 10%
D	= N/A
T (PEAK HOUR)	= 3%
T (AVERAGE DAY)	= 6%
DHV	= 1,790 VPH
DDHV	= N/A
FUNCTIONAL CLASSIFICATION = URBAN MINOR ARTERIAL	

CONVENTIONAL SIGNS

COUNTY, CITY OR TOWN BOUNDARY	_____	_____
COUNTY, CITY OR TOWN SIDE LINE	_____	_____
FENCE LINE	_____	_____
BASE LINE OR SURVEY LINE	_____	_____
RIGHT OF WAY LINE	_____	_____
CULVERT	_____	_____
ELEVATIONS	_____	_____
UTILITY POLE	_____	_____



LENGTH OF PROJECT: 9,870.00 FT = 1.869 MILES
100% SUBMISSION
JUNE 20, 2014



_____ Date		RECOMMENDED FOR APPROVAL	
VANASSE HANGEN BRUSTLIN, INC.		CHIEF ENGINEER	Date
DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION APPROVED		APPROVED	
DIVISION ADMINISTRATOR	Date	HIGHWAY ADMINISTRATOR	Date

SPRINGFIELD
NORTH END/BRIGHTWOOD – NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	2	145

PROJECT FILE NO. 605222

LEGEND & GENERAL NOTES

GENERAL NOTES

- TOPOGRAPHICAL INFORMATION WAS PROVIDED IN NAVD88 VERTICAL DATUM AND MA MAINLAND NAD 83 HORIZONTAL DATUM BY MASSDOT-HIGHWAY DIVISION IN NOVEMBER 2007 AND UPDATED IN MAY 2008. SUPPLEMENTAL SURVEY WAS PROVIDED BY VANASSE HANGEN BRUSTLIN, INC IN AUGUST AND DECEMBER 2008 SUPPLEMENTED WITH SURVEY AT MAIN STREET AND WASON IN 2011, AND AT NOBLE AND WALTER IN 2014.
- THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
- WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.
- THE CONTRACTOR SHALL ALTER THE MASONRY OF THE TOP SECTION OF ALL EXISTING DRAINAGE STRUCTURES AS NECESSARY FOR CHANGES IN GRADE, AND RESET ALL WATER AND DRAINAGE FRAMES, GRATES AND BOXES TO THE PROPOSED FINISH SURFACE GRADE. REQUIRED NEW MASONRY SHALL BE CLAY BRICK.
- THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANIES.
- UTILITY POLES WILL BE RELOCATED BY OTHERS.
- TREES AND SHRUBS WITHIN THE LIMITS OF GRADING SHALL BE REMOVED ONLY UPON APPROVAL OF THE ENGINEER.
- AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT NO EXPENSE TO THE OWNER.
- THE TERM "PROPOSED" (PROP) MEANS WORK TO BE CONSTRUCTED USING NEW MATERIALS OR, WHERE APPLICABLE, RE-USING EXISTING MATERIALS IDENTIFIED AS "REMOVE AND RESET" (R&R).
- JOINTS BETWEEN NEW HOT MIX ASPHALT (HMA) ROADWAY PAVEMENT AND SAWCUT EXISTING PAVEMENT SHALL BE SEALED IN ACCORDANCE WITH SECTION 450.
- ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND STACKED UNLESS INDICATED OTHERWISE ON THE TRAFFIC PLANS.
- ALL LATERAL DRAIN PIPES SHALL BE INSTALLED WITH A PITCH OF 0.01 FOOT PER FOOT (MINIMUM) UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- ALL EXISTING GRANITE CURB & EDGING SUITABLE FOR REUSE SHALL BE RE-USED IN THE PROPOSED WORK, EXCEPT CURVED STONES OF A DIFFERENT RADIUS THAN PROPOSED CURB. RESET CURB SHALL BE PLACED AS DIRECTED BY THE ENGINEER AND MAY BE ANYWHERE WITHIN THE PROJECT LIMITS.

TRAFFIC SIGNAL SYMBOLS

EXISTING	PROPOSED	
		CONTROL CABINET GROUND MOUNTED (WITHOUT & WITH CONCRETE PAD)
		SIGNAL POST & BASE
		MAST ARM, SHAFT, & BASE (ARM LENGTH AS NOTED)
		VEHICULAR SIGNAL HEAD (ALPHA-NUMERIC DESIGNATION NOTED)
		FLASHING BEACON
		PEDESTRIAN SIGNAL HEAD
		PULL BOX 12" x 12"
		PEDESTRIAN PUSH BUTTON
		PRE-EMPTION DETECTOR
		PRE-EMPTION STROBE
		CONTROLLER PHASE
		INDUCTIVE LOOP DETECTOR
		CONDUIT (COND.)

PAVEMENT MARKINGS AND SIGNING SYMBOLS

EXISTING	PROPOSED	
		PAVEMENT ARROW AND LEGEND
		CROSSWALK, 2-12" WHITE LINES (WIDTH NOTED)
		STOP LINE, 12" WHITE LINE 4.0' BEHIND CW (TYP)
		YIELD LINE, 24" x 36" WHITE TRIANGLE, 36" O.C.
		SOLID WHITE CHANNELIZING LINE-SIZE AS NOTED
		SOLID YELLOW CHANNELIZING LINE-SIZE AS NOTED
		BROKEN WHITE LANE LINE - 4"
		SOLID WHITE LANE LINE - 4"
		DOUBLE YELLOW CENTERLINE - 4"
		SOLID YELLOW EDGE LINE - 4"
		SOLID WHITE EDGE LINE - 4"
		BROKEN YELLOW LANE LINE - 4"
		DASHED WHITE LINE - 4"
		BICYCLE DETECTION LEGEND
		SIGN AND POST

ABBREVIATIONS

GENERAL			
ABAN	ABANDON	MIN	MINIMUM
ADJ	ADJUST	NTS	NOT TO SCALE
APPROX	APPROXIMATE	PGL	PROFILE GRADE LINE
BIT	BITUMINOUS	PROP	PROPOSED
BOS	BOTTOM OF SLOPE	PVM'T	PAVEMENT
(BO)	BY OTHERS	REM	REMOVE
CEM	CEMENT	REMOD	REMODEL
CLF	CHAINLINK FENCE	RET	RETAIN
CONC	CONCRETE	R&D	REMOVE AND DISCARD
ELEV	ELEVATION	R&R	REMOVE AND RESET
EOP	EDGE OF PAVEMENT	R&S	REMOVE AND STACK
EXIST	EXISTING	RT	RIGHT
FND	FOUNDATION	STA	STATION
GRAN	GRANITE	TEMP	TEMPORARY
HMA	HOT MIX ASPHALT	TFCC	TELEPHONE FIRE CALL CENTER
LOAM	LOAM BORROW	TOS	TOP OF SLOPE
LT	LEFT	TYP	TYPICAL
MAX	MAXIMUM		

UTILITIES	
ACCOMP	ASHPALT COATED CORRIGATED METAL PIPE
CAP	CORRUGATED ALUMINUM PIPE
CIP	CAST IRON PIPE
CIT	CHANGE IN TYPE
COND	CONDUIT
DIP	DUCTILE IRON PIPE
FCC	FIRE CALL CENTER
FES	FLARED END SECTION
F&C	FRAME AND COVER
F&G	FRAME AND GRATE
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HW	HEADWALL
HYD	HYDRANT
INV	INVERT
PVC	POLYVINYLCHLORIDE PIPE
PWW	PAVED WATER WAY
RCP	REINFORCED CONCRETE PIPE
TSV&B	TAPPING SLEEVE VALVE AND BOX
UP	UTILITY POLE

ALIGNMENT/GRADING	
CC	CENTER OF CURVE
HP	HIGH POINT
LP	LOW POINT
PC	POINT OF CURVE
PI	POINT OF INTERSECTION
PNT	POINT
PCC	POINT OF COMPOUND CURVE
PRC	POINT OF REVERSE CURVE
PT	POINT OF TANGENT
25.45	SPOT ELEVATION

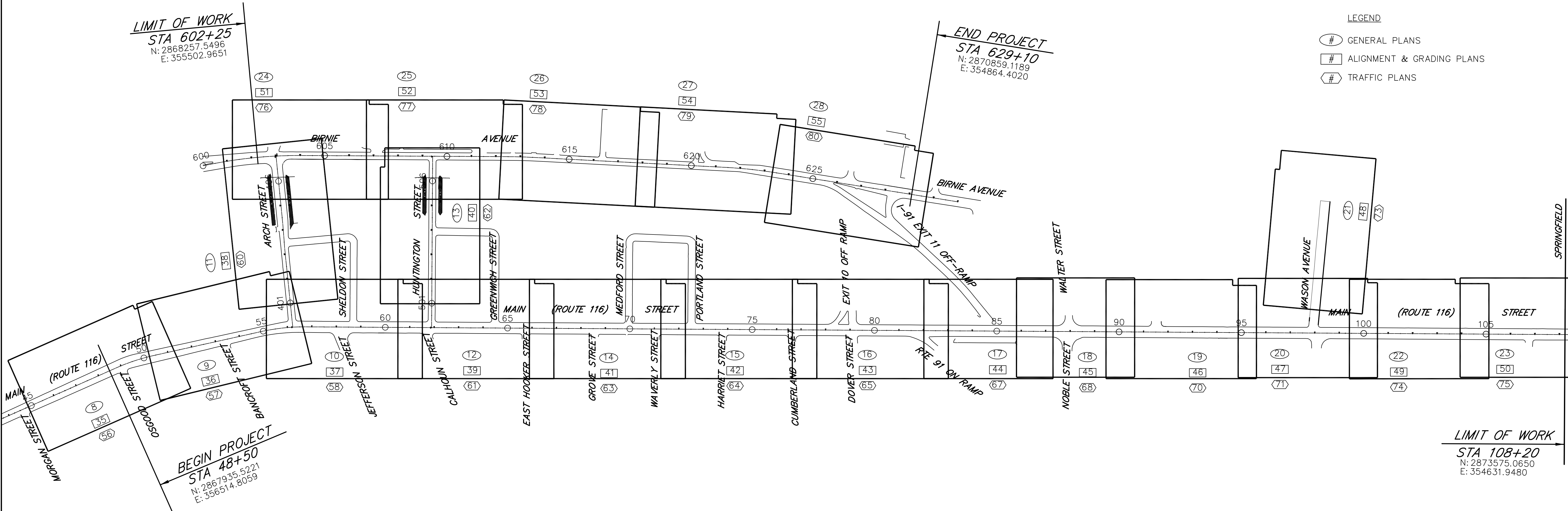
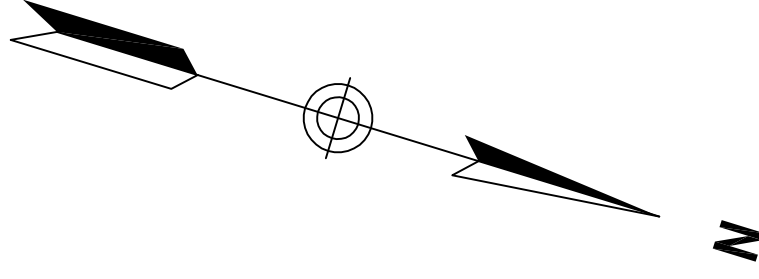
PROFILES	
AD	ALGEBRAIC DIFFERENCE IN RATES OF GRADE
ELEV	ELEVATION
HSD	HORIZONTAL SIGHT DISTANCE
K	RATE OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVC	POINT OF VERTICAL CURVE
PVT	POINT OF VERTICAL TANGENT
PVRC	POINT OF VERTICAL REVERSE CURVE
PVCC	POINT OF VERTICAL COMPOUND CURVE
SSD	STOPPING SIGHT DISTANCE
VC	VERTICAL CURVE

TRAFFIC SIGNAL SYSTEMS	
R	STEADY CIRCULAR RED
Y	STEADY CIRCULAR YELLOW
G	STEADY CIRCULAR GREEN
FR	FLASHING CIRCULAR RED
-FR->	FLASHING RED ARROW
FY	FLASHING CIRCULAR YELLOW
-FY->	FLASHING YELLOW ARROW
	STEADY VERTICAL GREEN ARROW
	STEADY LEFT ARROW (RED, YELLOW OR GREEN PREFIX)
	STEADY RIGHT ARROW (RED, YELLOW OR GREEN PREFIX)
W	STEADY WALK-WHITE
DW	STEADY DON'T WALK-PORTLAND ORANGE
FDW	FLASHING DON'T WALK-PORTLAND ORANGE

SPRINGFIELD
NORTH END/BRIGHTWOOD – NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	3	145
PROJECT FILE NO. 605222			

KEY PLAN

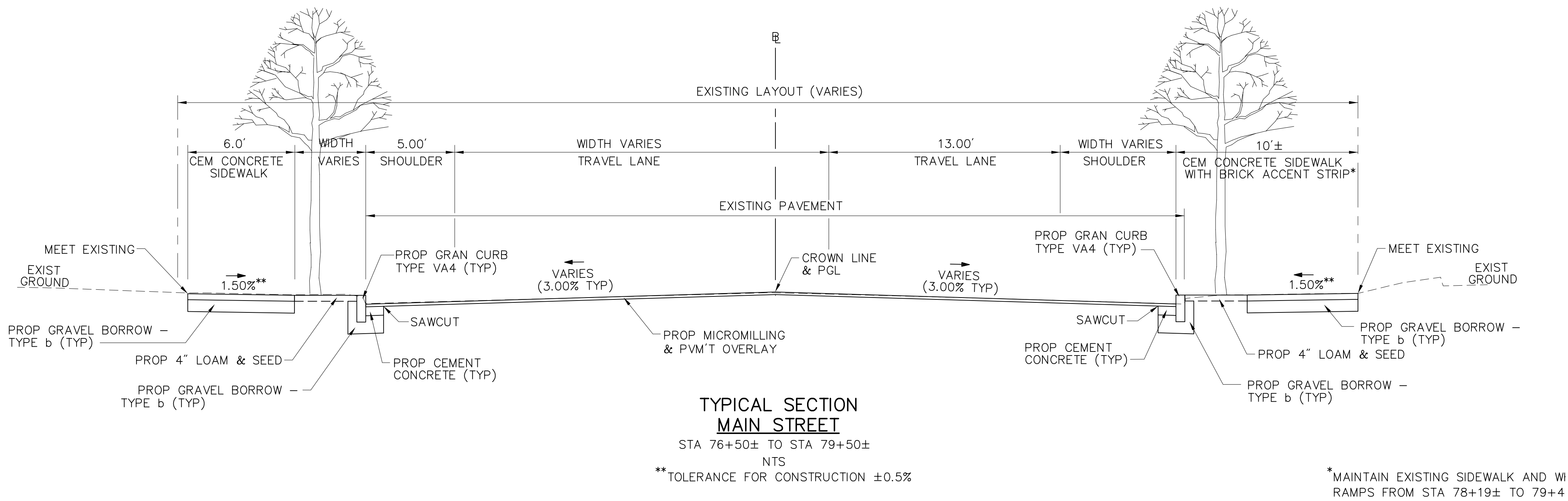


- LEGEND
- # GENERAL PLANS
 - # ALIGNMENT & GRADING PLANS
 - # TRAFFIC PLANS

SPRINGFIELD
NORTH END/BRIGHTWOOD – NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	4	145
PROJECT FILE NO. 605222			

TYPICAL SECTIONS & PAVEMENT NOTES



PAVEMENT NOTES

PROPOSED FULL DEPTH PAVEMENT (GREATER THAN 4.0' FEET WIDE)
SURFACE: 3.5" HOT MIX ASPHALT (1.75" SUPERPAVE SURFACE COURSE 12.5 OVER 1.75" SUPERPAVE INTERMEDIATE COURSE 12.5 MATERIAL)
BASE: 3.5" SUPERPAVE BASE COURSE (SBC-37.5)

SUBBASE: 4" DENSE GRADED CRUSHED STONE FOR SUBBASE OVER 8" GRAVEL BORROW, TYPE b.

PROPOSED FULL DEPTH PAVEMENT (LESS THAN 4.0' FEET WIDE)
SURFACE: 1.75" HOT MIX ASPHALT (SUPERPAVE SURFACE COURSE 12.5)

BASE: 6" HIGH EARLY STRENGTH CEMENT CONCRETE BASE COURSE

SUBBASE: 12" GRAVEL BORROW, TYPE b.

PROPOSED PVM'T MICROMILLING & OVERLAY
SURFACE: 1.75" HOT MIX ASPHALT (1.75" SUPERPAVE SURFACE COURSE 12.5)

ASPHALT EMULSION FOR TACK COAT (RS-1) AT 0.07 GAL/SY OVER EXISTING PAVEMENT.

THE PAVEMENT MICROMILLING SHALL BE TO THE APPROPRIATE DEPTH TO ACHIEVE GRADES SHOWN ON THE ALIGNMENT AND GRADING PLANS MINUS THE DEPTH OF THE SURFACE COURSE.

THE MINIMUM MILLING DEPTH SHALL BE 0.5".

PROPOSED CEMENT CONCRETE WALK/MEDIAN/ WHEELCHAIR RAMP

SURFACE: 4" CEMENT CONCRETE AIR ENTRAINED 4000 PSI, ¾", 610

FOUNDATION: 8" GRAVEL BORROW, TYPE b OR EXISTING GRAVEL BASE COMPACTED

PROPOSED CEMENT CONCRETE RESIDENTIAL DRIVEWAY (HUNTINGTON ST & ARCH ST)

SURFACE: 6" CEMENT CONCRETE AIR ENTRAINED 4000 PSI, ¾", 610

FOUNDATION: 8" GRAVEL BORROW, TYPE b OR EXISTING GRAVEL BASE COMPACTED
WIRE WELDED FABRIC PLACED 1.5" ABOVE GRAVEL BASE

PROPOSED CEMENT CONCRETE COMMERCIAL DRIVEWAY

SURFACE: 9" CEMENT CONCRETE AIR ENTRAINED 4000 PSI, ¾", 610

FOUNDATION: 8" GRAVEL BORROW, TYPE b OR EXISTING GRAVEL BASE COMPACTED
#3 REINFORCING BARS PLACED 12" O.C. EACH WAY 3" ABOVE GRAVEL BASE

PROPOSED HOT MIX ASPHALT DRIVEWAY

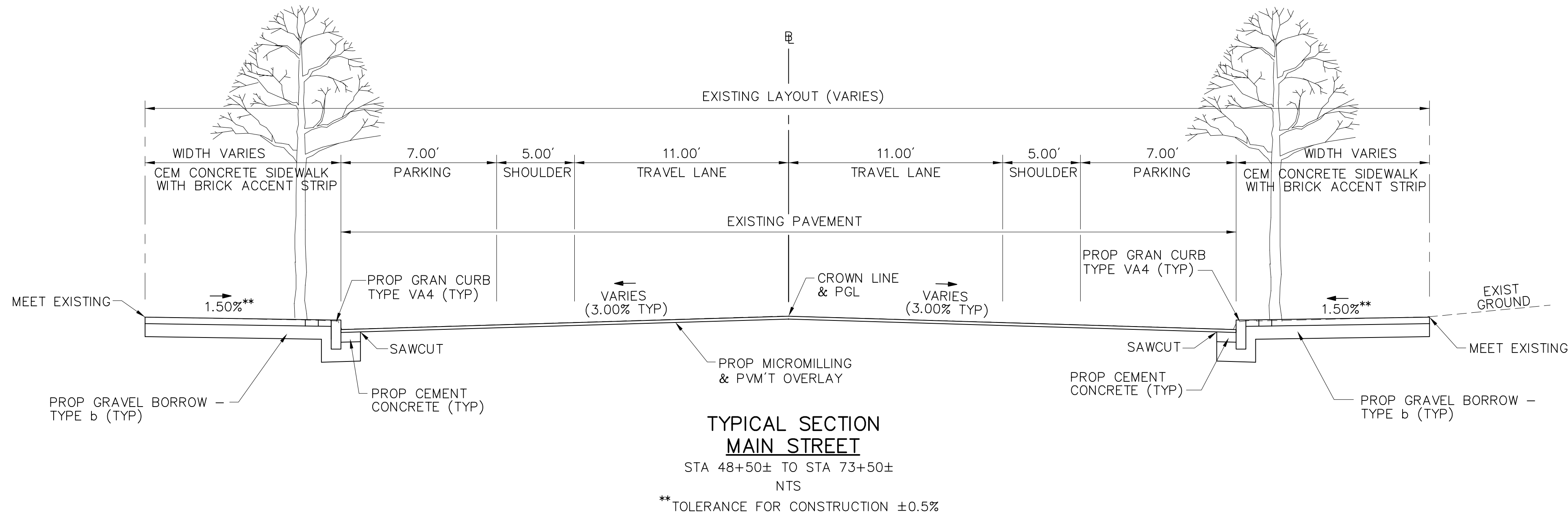
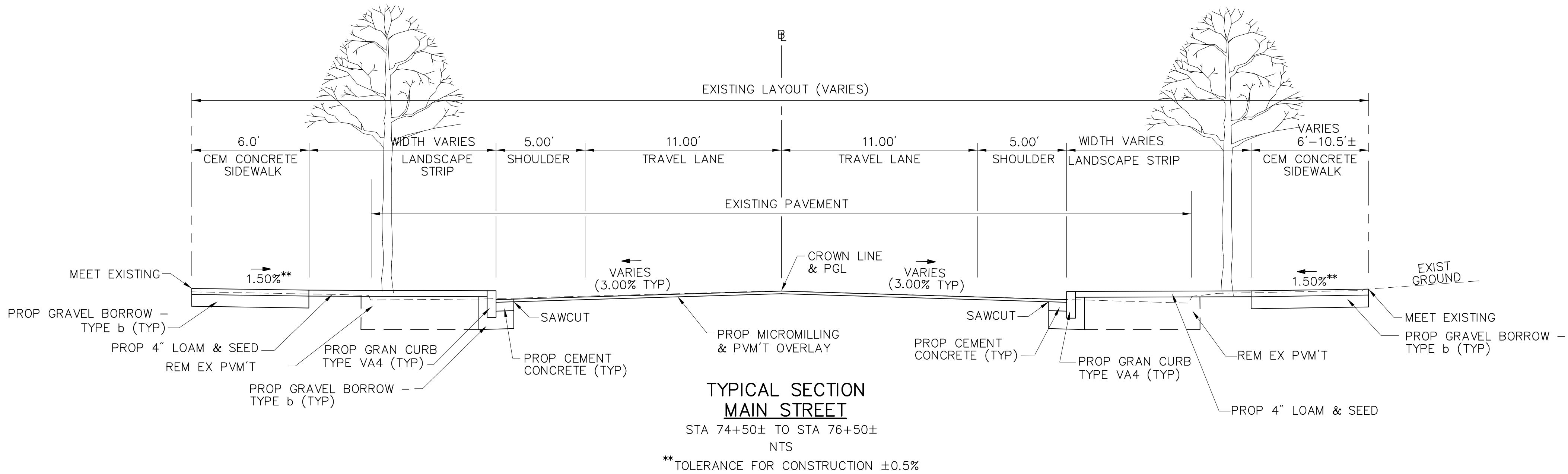
SURFACE: 3.5" HOT MIX ASPHALT (1.5" SUPERPAVE SURFACE COURSE 12.5 OVER 2" SUPERPAVE INTERMEDIATE COURSE 12.5 MATERIAL)

FOUNDATION: 8" GRAVEL BORROW, TYPE b OR EXISTING GRAVEL BASE COMPACTED

PROPOSED BRICK ACCENT STRIP

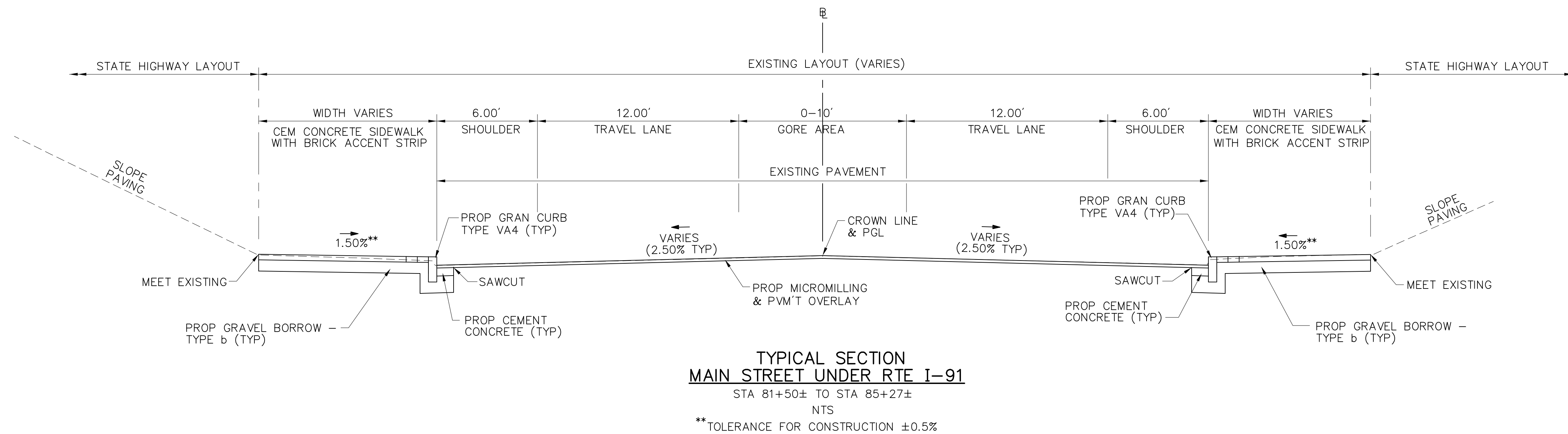
SURFACE: 2.75" BRICK PAVER 1.25" HMA SETTING BED

FOUNDATION: 8" GRAVEL BORROW, TYPE b OR EXISTING GRAVEL BASE COMPACTED



STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	5	145
PROJECT FILE NO. 605222			

NOTE: SEE SHEET 4 FOR PAVEMENT NOTES.

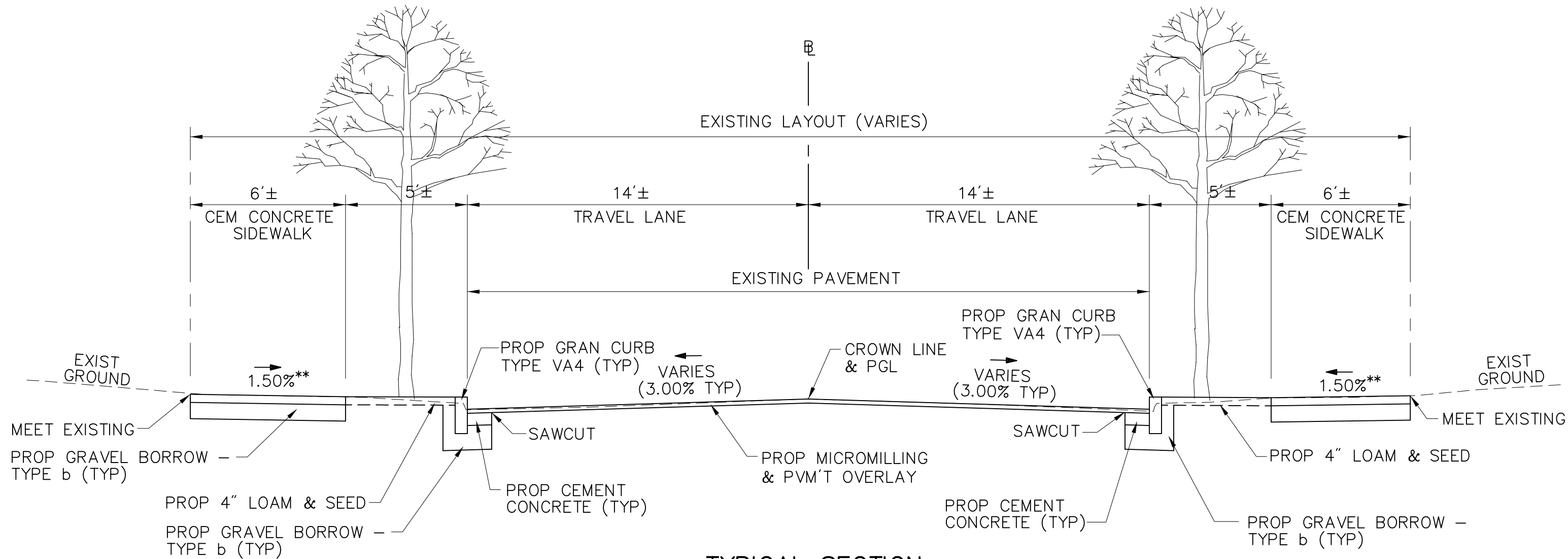


SPRINGFIELD
NORTH END/BRIGHTWOOD – NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	6	145
PROJECT FILE NO. 605222			

TYPICAL SECTIONS & PAVEMENT NOTES

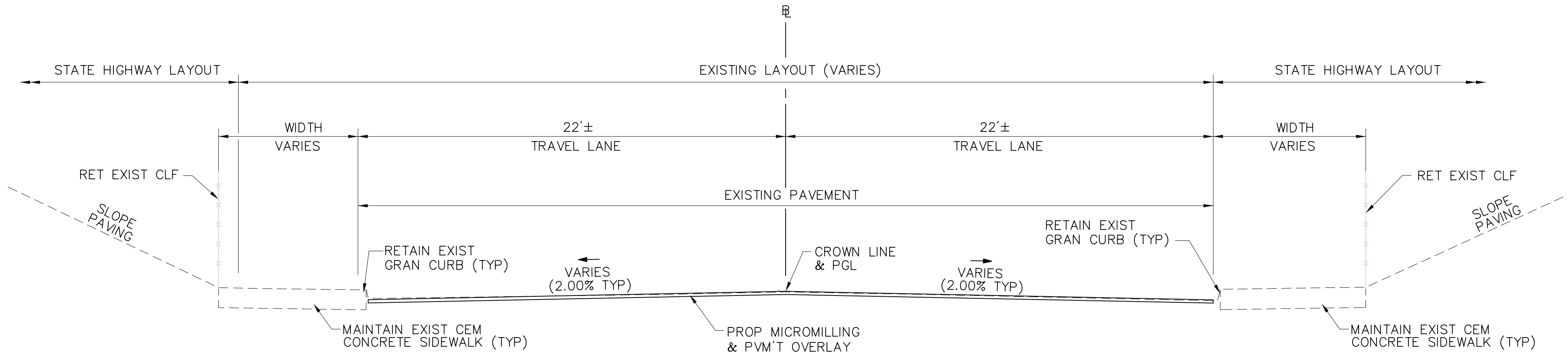
NOTE: SEE SHEET 4 FOR PAVEMENT NOTES.



TYPICAL SECTION
HUNTINGTON STREET

STA 500+30± TO STA 504+68±
NTS

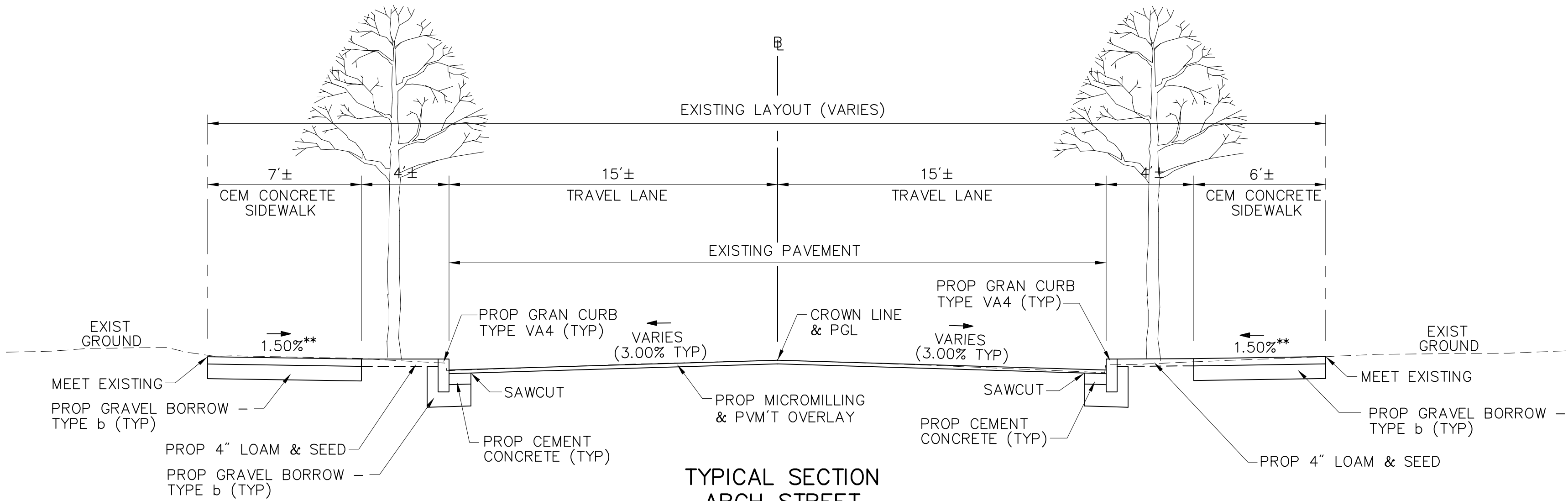
**TOLERANCE FOR CONSTRUCTION ±0.5%



TYPICAL SECTION
ARCH STREET UNDER RTE I-91

STA 404+00± TO STA 406+65±
NTS

**TOLERANCE FOR CONSTRUCTION ±0.5%



TYPICAL SECTION
ARCH STREET

STA 400+30± TO STA 403+25±
NTS

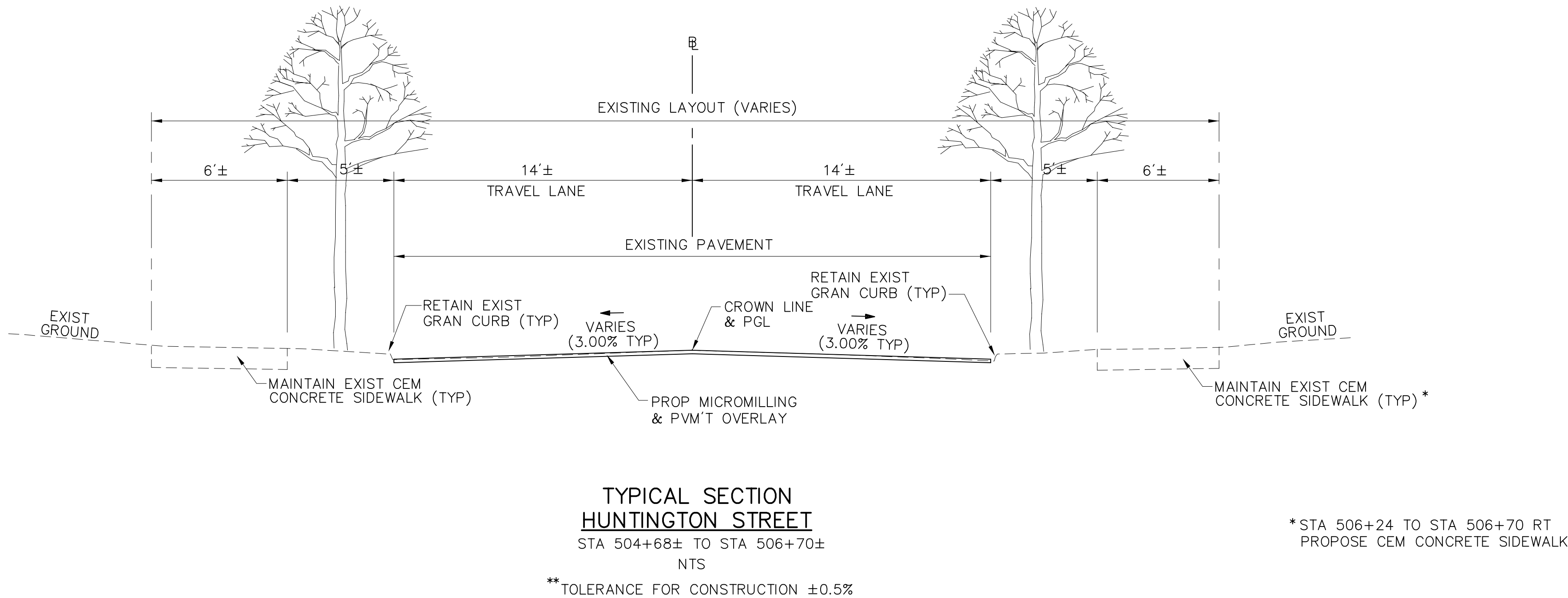
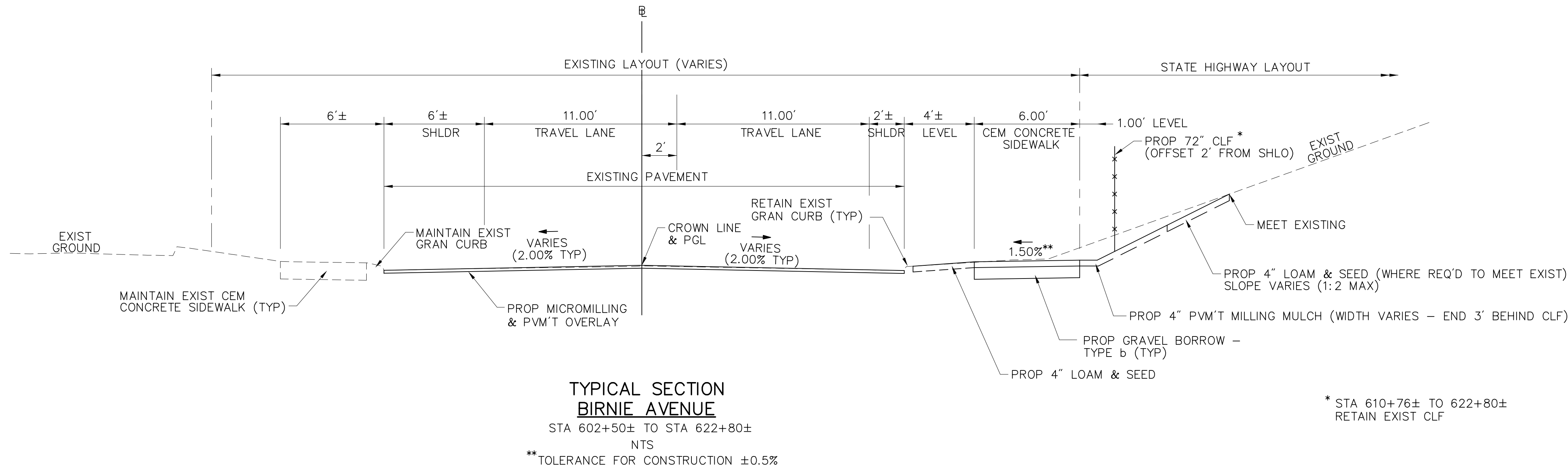
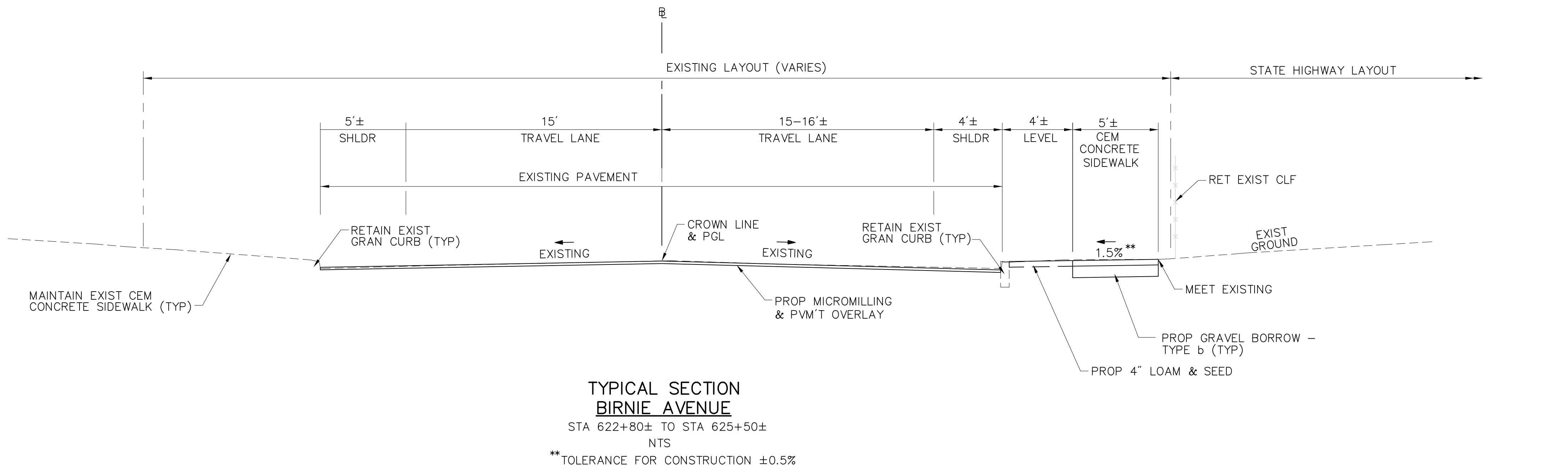
**TOLERANCE FOR CONSTRUCTION ±0.5%

SPRINGFIELD
NORTH END/BRIGHTWOOD – NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	7	145
PROJECT FILE NO. 605222			

TYPICAL SECTIONS & PAVEMENT NOTES

NOTE: SEE SHEET 4 FOR PAVEMENT NOTES.



HIGHWAY GUARD TYPE SS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

SEE BELOW

DRAINAGE DETAILS

SEE BELOW

SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

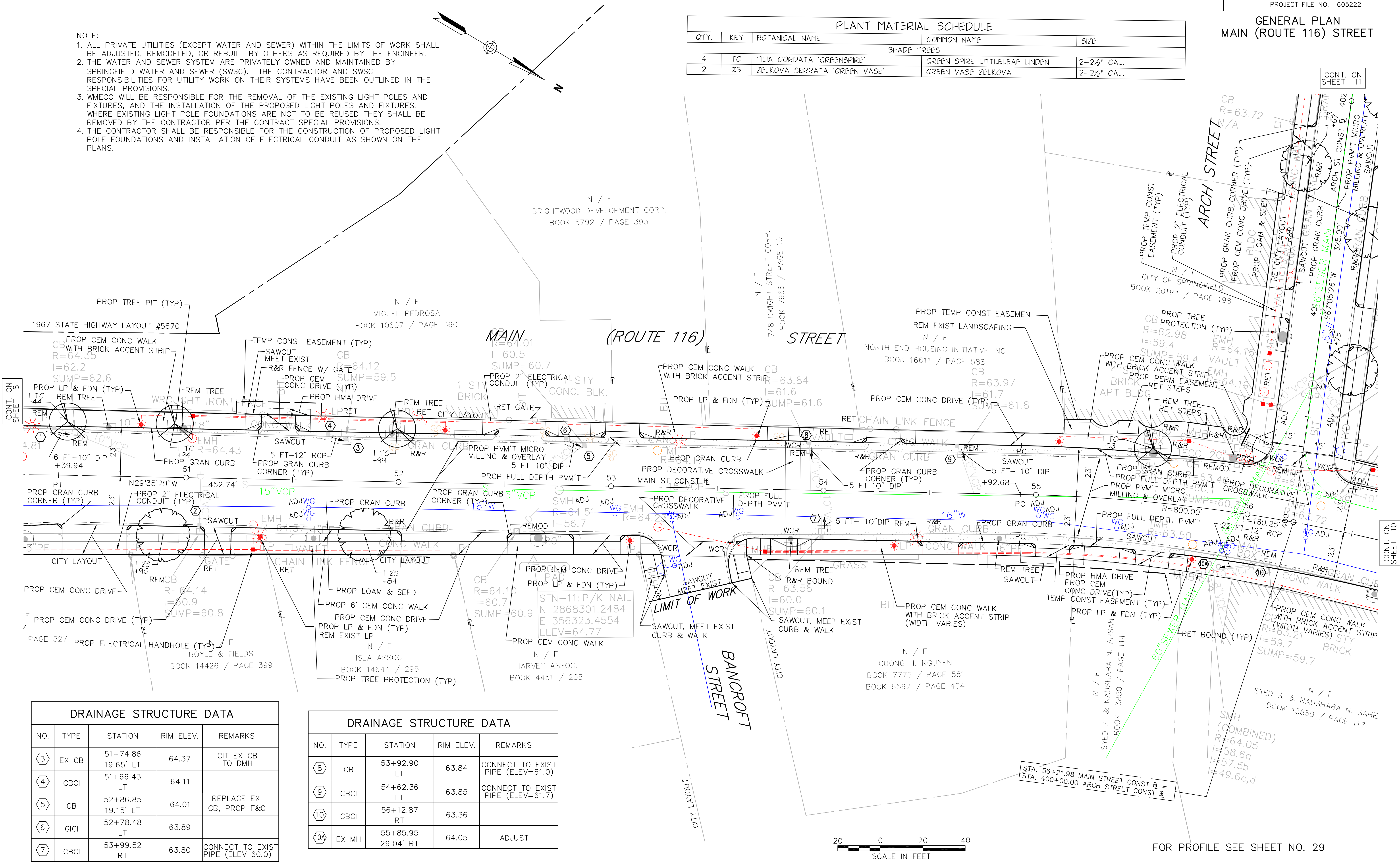
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	9	145
PROJECT FILE NO. 605222			

GENERAL PLAN
MAIN (ROUTE 116) STREET

NOTE:

1. ALL PRIVATE UTILITIES (EXCEPT WATER AND SEWER) WITHIN THE LIMITS OF WORK SHALL BE ADJUSTED, REMODELED, OR REBUILT BY OTHERS AS REQUIRED BY THE ENGINEER.
2. THE WATER AND SEWER SYSTEM ARE PRIVATELY OWNED AND MAINTAINED BY SPRINGFIELD WATER AND SEWER (SWSC). THE CONTRACTOR AND SWSC RESPONSIBILITIES FOR UTILITY WORK ON THEIR SYSTEMS HAVE BEEN OUTLINED IN THE SPECIAL PROVISIONS.
3. WMCO WILL BE RESPONSIBLE FOR THE REMOVAL OF THE EXISTING LIGHT POLES AND FIXTURES, AND THE INSTALLATION OF THE PROPOSED LIGHT POLES AND FIXTURES. WHERE EXISTING LIGHT POLE FOUNDATIONS ARE NOT TO BE REUSED THEY SHALL BE REMOVED BY THE CONTRACTOR PER THE CONTRACT SPECIAL PROVISIONS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF PROPOSED LIGHT POLE FOUNDATIONS AND INSTALLATION OF ELECTRICAL CONDUIT AS SHOWN ON THE PLANS.

PLANT MATERIAL SCHEDULE				
QTY.	KEY	BOTANICAL NAME	COMMON NAME	SIZE
SHADE TREES				
4	TC	TILIA CORDATA 'GREENSPIRE'	GREEN SPIRE LITTLELEAF LINDEN	2-2½" CAL.
2	ZS	ZELKOVA SERRATA 'GREEN VASE'	GREEN VASE ZELKOVA	2-2½" CAL.



DRAINAGE STRUCTURE DATA				
NO.	TYPE	STATION	RIM ELEV.	REMARKS
3	EX CB	51+74.86 19.65' LT	64.37	CIT EX CB TO DMH
4	CBCI	51+66.43 LT	64.11	
5	CB	52+86.85 19.15' LT	64.01	REPLACE EX CB, PROP F&C
6	GICI	52+78.48 LT	63.89	
7	CBCI	53+99.52 RT	63.80	CONNECT TO EXIST PIPE (ELEV 60.0)

DRAINAGE STRUCTURE DATA				
NO.	TYPE	STATION	RIM ELEV.	REMARKS
8	CB	53+92.90 LT	63.84	CONNECT TO EXIST PIPE (ELEV=61.0)
9	CBCI	54+62.36 LT	63.85	CONNECT TO EXIST PIPE (ELEV=61.7)
10	CBCI	56+12.87 RT	63.36	
10A	EX MH	55+85.95 29.04' RT	64.05	ADJUST

STA. 56+21.98 MAIN STREET CONST R =
STA. 400+00.00 ARCH STREET CONST R =

FOR PROFILE SEE SHEET NO. 29

HIGHWAY GUARD TYPE SS

NONE

TRAFFIC SIGNAL CONDUIT

SEE SHEET 54

WATER SUPPLY ALTERATIONS

SEE BELOW

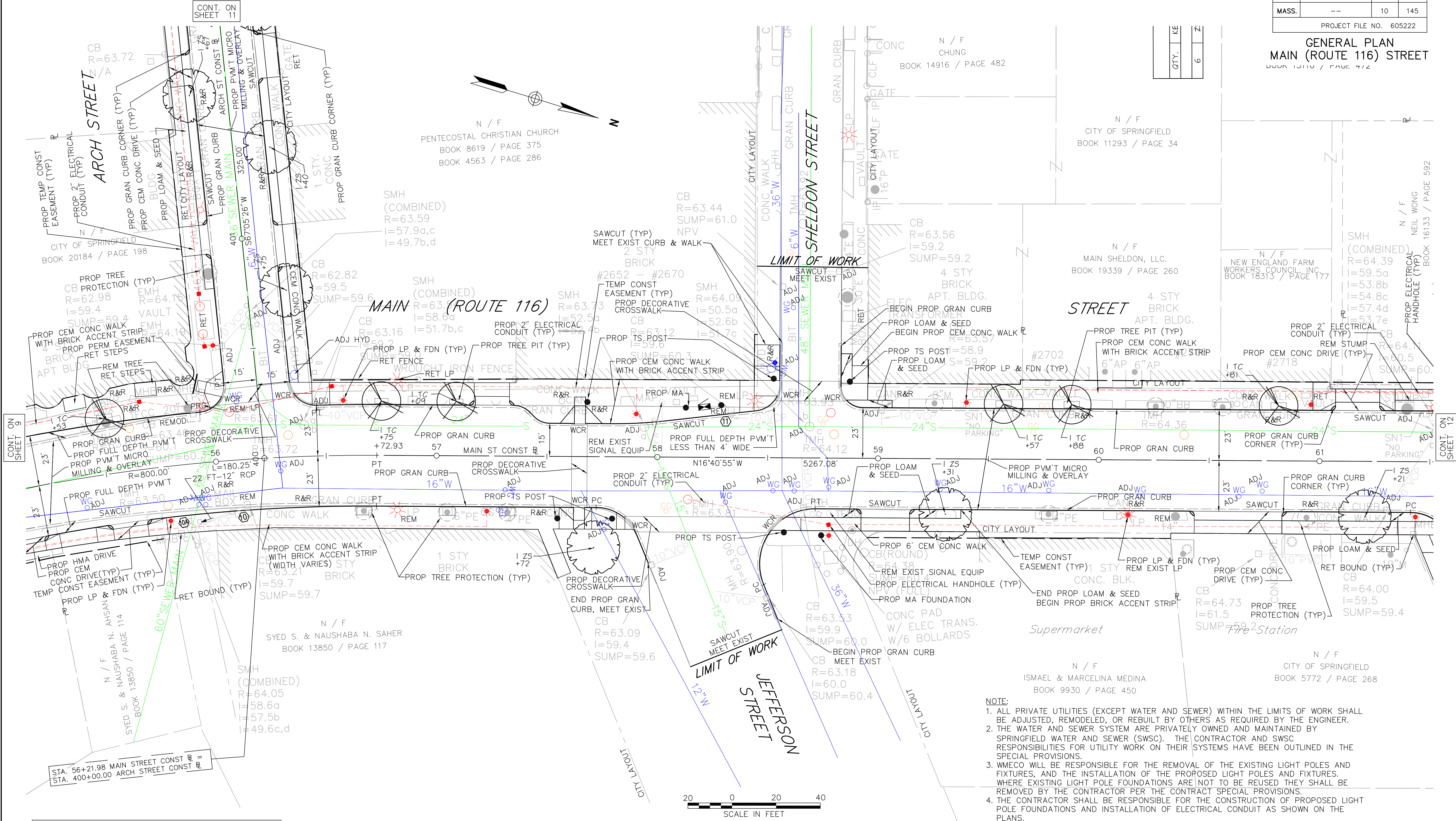
DRAINAGE DETAILS

SEE BELOW

SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	10	145
PROJECT FILE NO. 605222			

GENERAL PLAN
MAIN (ROUTE 116) STREET
BOOK 15110 / PAGE 412



DRAINAGE STRUCTURE DATA				
NO.	TYPE	STATION	RIM ELEV.	REMARKS
11	CBCI	58+33.31 LT	63.29	BUILD OVER EXIST PIPE

PLANT MATERIAL SCHEDULE				
QTY.	KEY	BOTANICAL NAME	COMMON NAME	SIZE
SHADE TREES				
5	TC	TILIA CORDATA 'GREENSPIRE'	GREEN SPIRE LITTLELEAF LINDEN	2-2½" CAL.
4	ZS	ZELKOVA SERRATA 'GREEN VASE'	GREEN VASE ZELKOVA	2-2½" CAL.

- NOTE:
- ALL PRIVATE UTILITIES (EXCEPT WATER AND SEWER) WITHIN THE LIMITS OF WORK SHALL BE ADJUSTED, REMODELED, OR REBUILT BY OTHERS AS REQUIRED BY THE ENGINEER.
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 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF PROPOSED LIGHT POLE FOUNDATIONS AND INSTALLATION OF ELECTRICAL CONDUIT AS SHOWN ON THE PLANS.

FOR PROFILE SEE SHEET NOS. 29 & 32

\\vhb\proj\Worcester\09790.00\cad\te\Planset\Phase 2\09790GEN-UTIL-100.dwg

HIGHWAY GUARD TYPE SS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

SEE BELOW

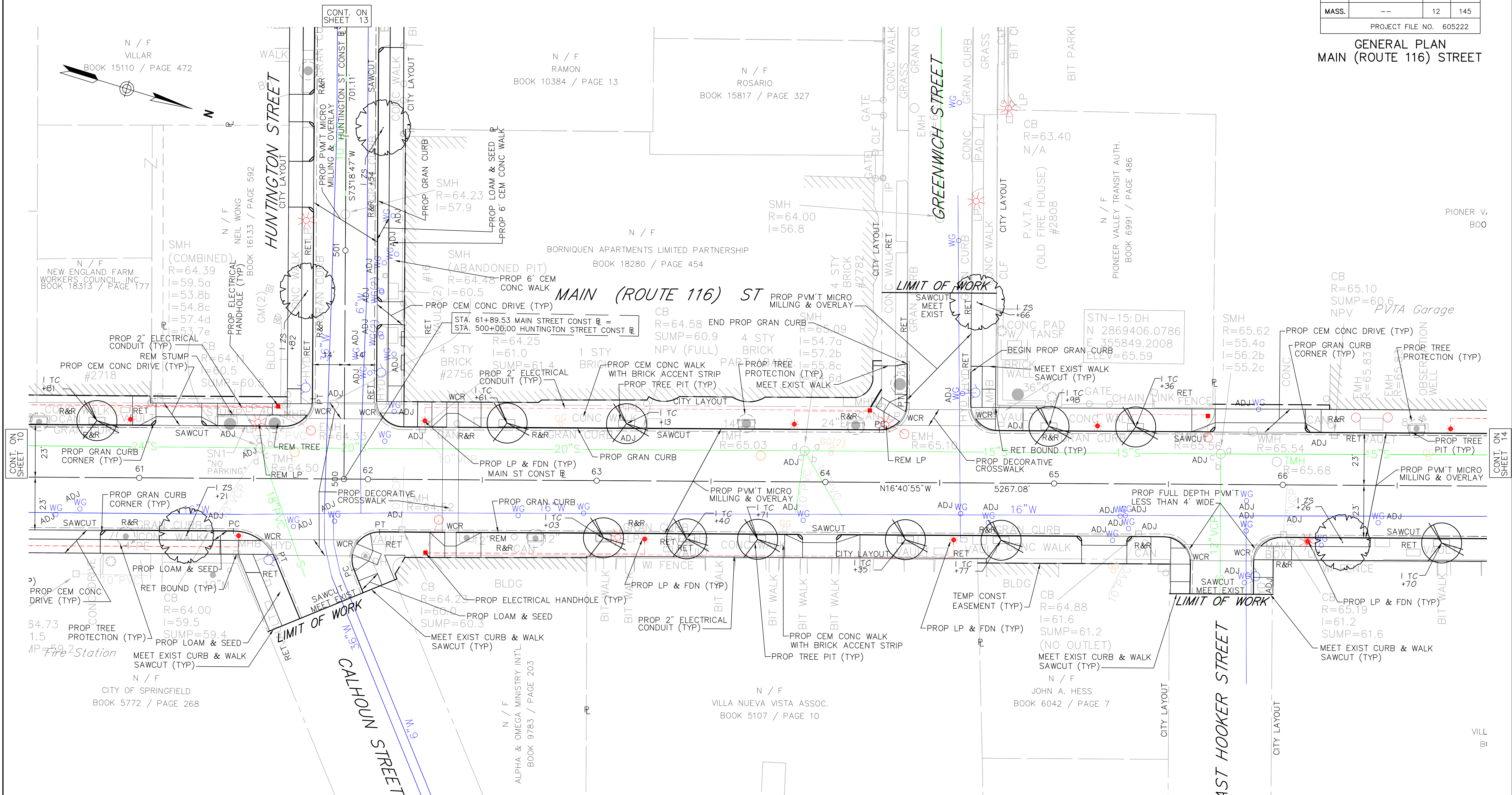
DRAINAGE DETAILS

SEE BELOW

SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	12	145
PROJECT FILE NO. 605222			

GENERAL PLAN
MAIN (ROUTE 116) STREET



NOTE:

- ALL PRIVATE UTILITIES (EXCEPT WATER AND SEWER) WITHIN THE LIMITS OF WORK SHALL BE ADJUSTED, REMODELED, OR REBUILT BY OTHERS AS REQUIRED BY THE ENGINEER.
- THE WATER AND SEWER SYSTEM ARE PRIVATELY OWNED AND MAINTAINED BY SPRINGFIELD WATER AND SEWER (SWSC). THE CONTRACTOR AND SWSC RESPONSIBILITIES FOR UTILITY WORK ON THEIR SYSTEMS HAVE BEEN OUTLINED IN THE SPECIAL PROVISIONS.
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- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF PROPOSED LIGHT POLE FOUNDATIONS AND INSTALLATION OF ELECTRICAL CONDUIT AS SHOWN ON THE PLANS.

PLANT MATERIAL SCHEDULE

QTY.	KEY	BOTANICAL NAME	COMMON NAME	SIZE
SHADE TREES				
10	TC	TILIA CORDATA 'GREENSPIRE'	GREEN SPIRE LITTLELEAF LINDEN	2-2½" CAL.
3	ZS	ZELKOVA SERRATA 'GREEN VASE'	GREEN VASE ZELKOVA	2-2½" CAL.



FOR PROFILE SEE SHEET NOS. 29 & 32

HIGHWAY GUARD TYPE SS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

SEE BELOW

DRAINAGE DETAILS

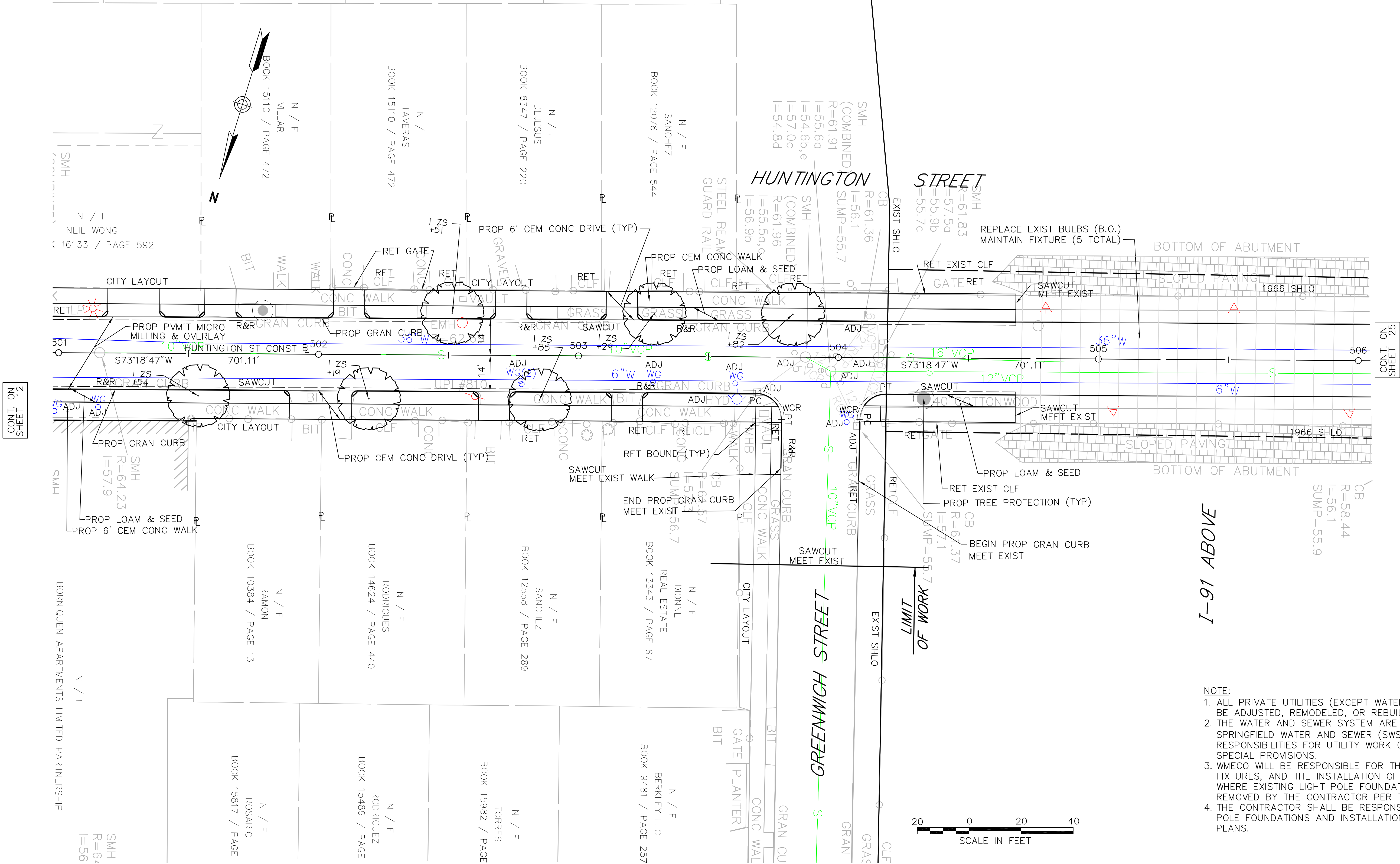
SEE BELOW

SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	13	145
PROJECT FILE NO. 605222			

GENERAL PLAN
HUNTINGTON STREET

PLANT MATERIAL SCHEDULE				
QTY.	KEY	BOTANICAL NAME	COMMON NAME	SIZE
SHADE TREES				
6	ZS	ZELKOVA SERRATA 'GREEN VASE'	GREEN VASE ZELKOVA	2-2½" CAL.



I-91 ABOVE

- NOTE:
1. ALL PRIVATE UTILITIES (EXCEPT WATER AND SEWER) WITHIN THE LIMITS OF WORK SHALL BE ADJUSTED, REMODELED, OR REBUILT BY OTHERS AS REQUIRED BY THE ENGINEER.
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 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF PROPOSED LIGHT POLE FOUNDATIONS AND INSTALLATION OF ELECTRICAL CONDUIT AS SHOWN ON THE PLANS.

FOR PROFILE SEE SHEET NO. 32

HIGHWAY GUARD TYPE SS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

SEE BELOW

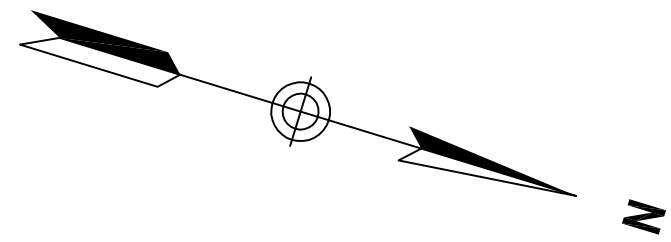
DRAINAGE DETAILS

SEE BELOW

SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

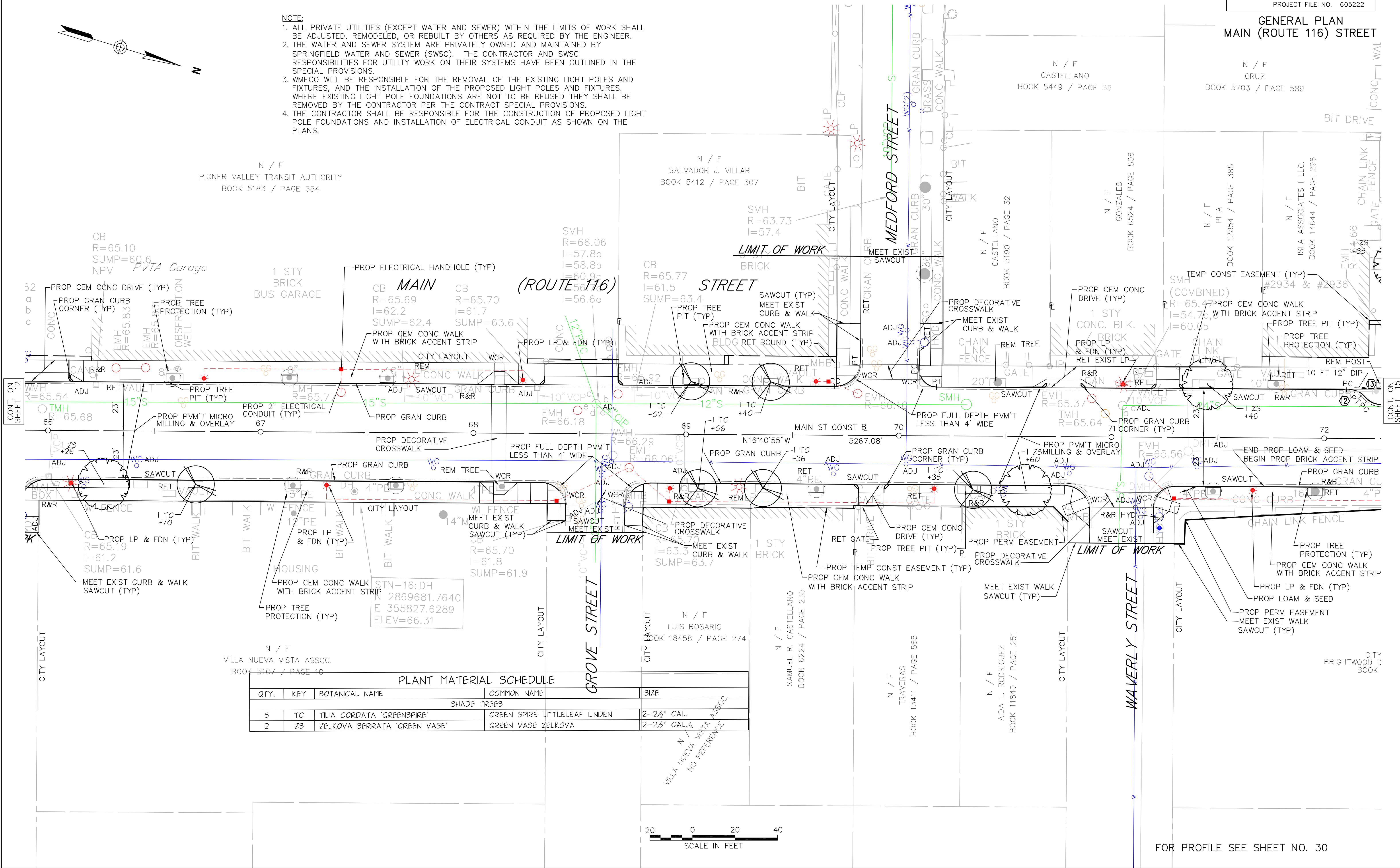
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	14	145
PROJECT FILE NO. 605222			

GENERAL PLAN
MAIN (ROUTE 116) STREET



NOTE:

1. ALL PRIVATE UTILITIES (EXCEPT WATER AND SEWER) WITHIN THE LIMITS OF WORK SHALL BE ADJUSTED, REMODELED, OR REBUILT BY OTHERS AS REQUIRED BY THE ENGINEER.
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PLANT MATERIAL SCHEDULE				
QTY.	KEY	BOTANICAL NAME	COMMON NAME	SIZE
SHADE TREES				
5	TC	TILIA CORDATA 'GREENSPIRE'	GREEN SPIRE LITTLELEAF LINDEN	2-2½" CAL.
2	ZS	ZELKOVA SERRATA 'GREEN VASE'	GREEN VASE ZELKOVA	2-2½" CAL.



FOR PROFILE SEE SHEET NO. 30

HIGHWAY GUARD TYPE SS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

SEE BELOW

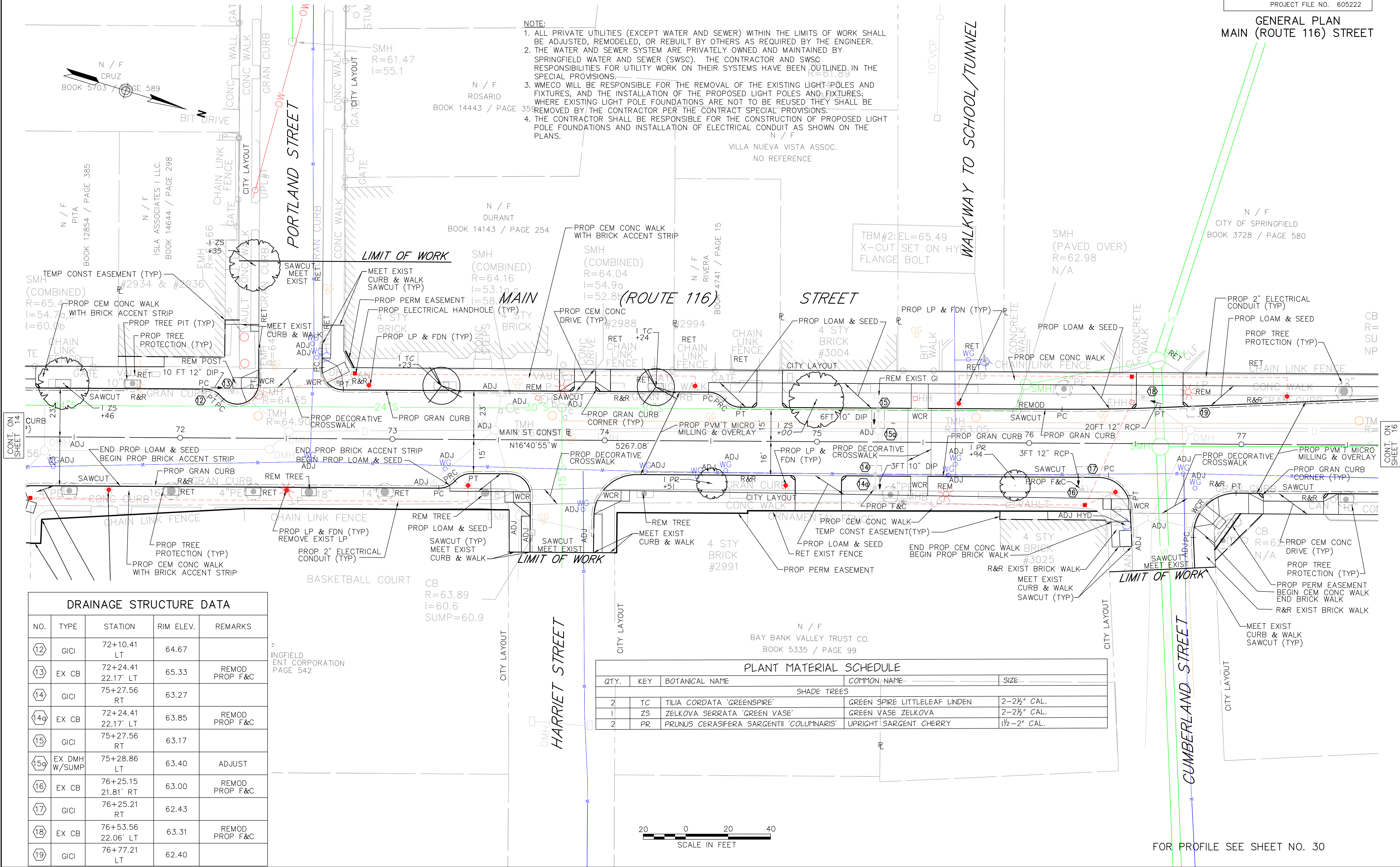
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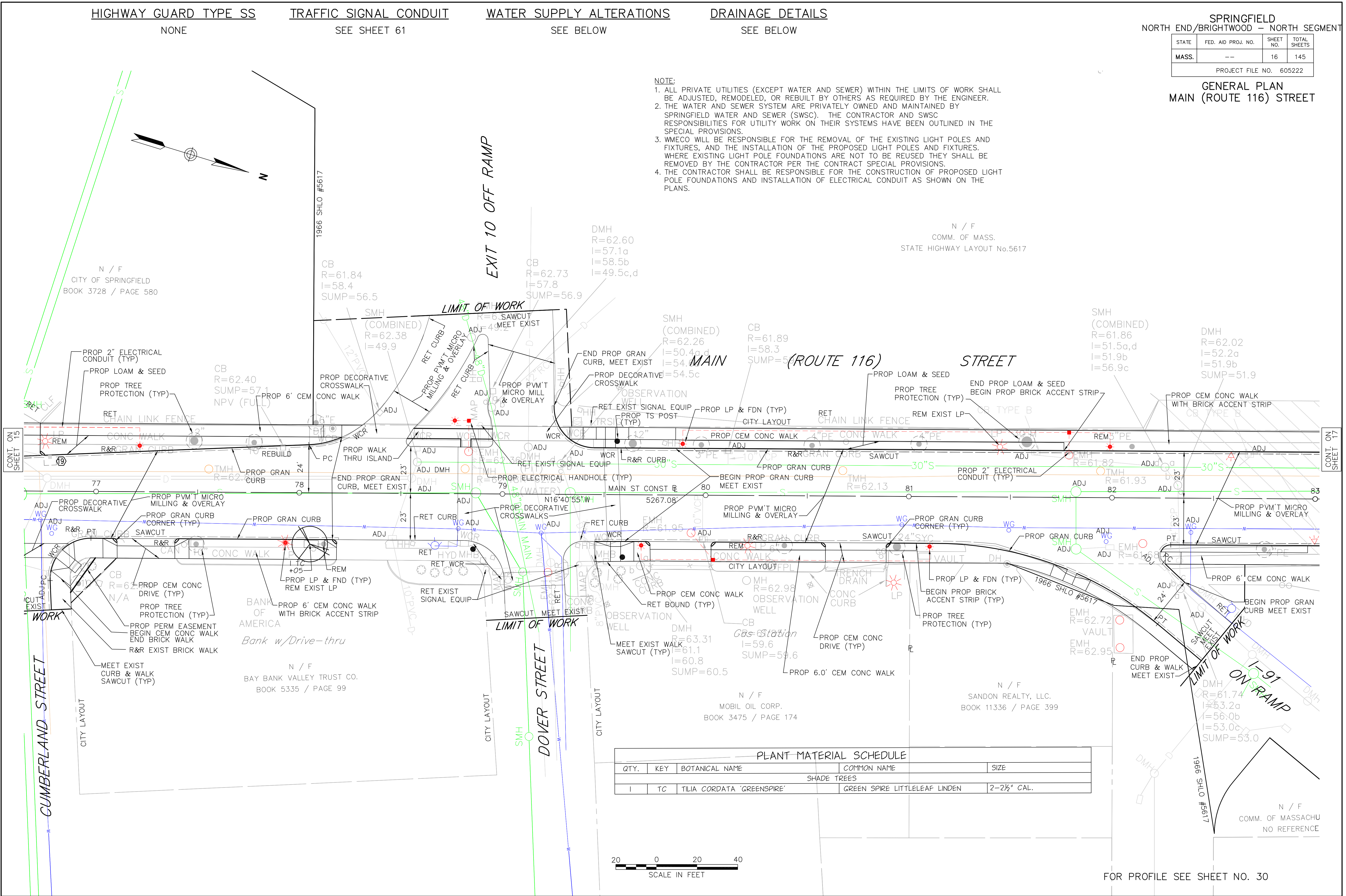
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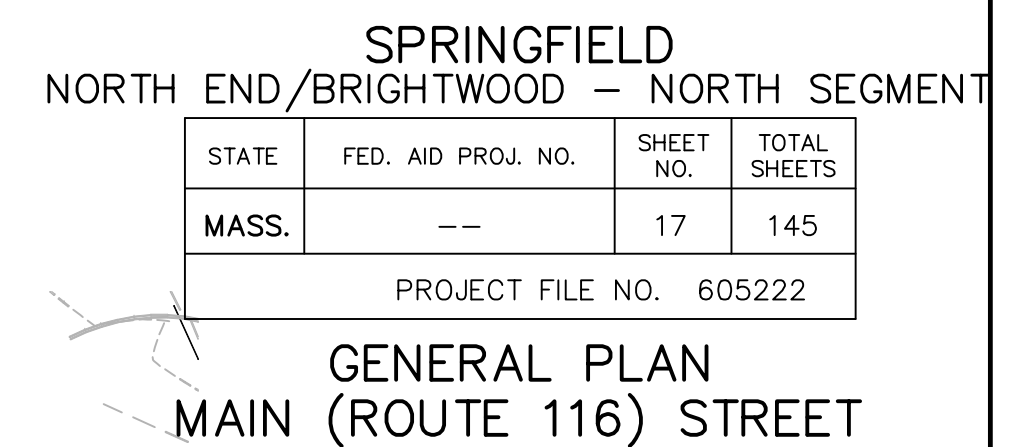
SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	15	145
PROJECT FILE NO. 605222			

GENERAL PLAN
MAIN (ROUTE 116) STREET



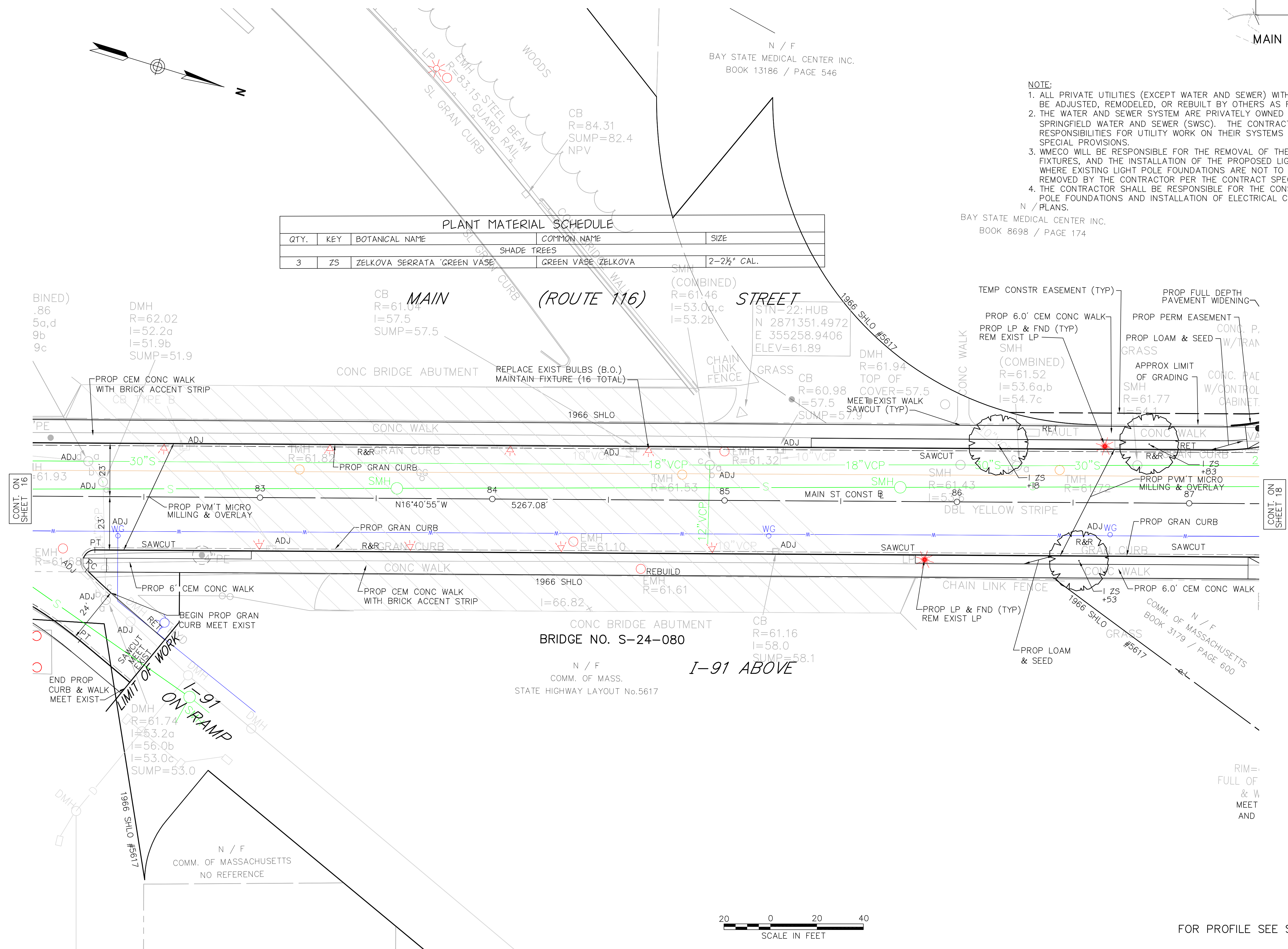




STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	17	145
PROJECT FILE NO. 605222			

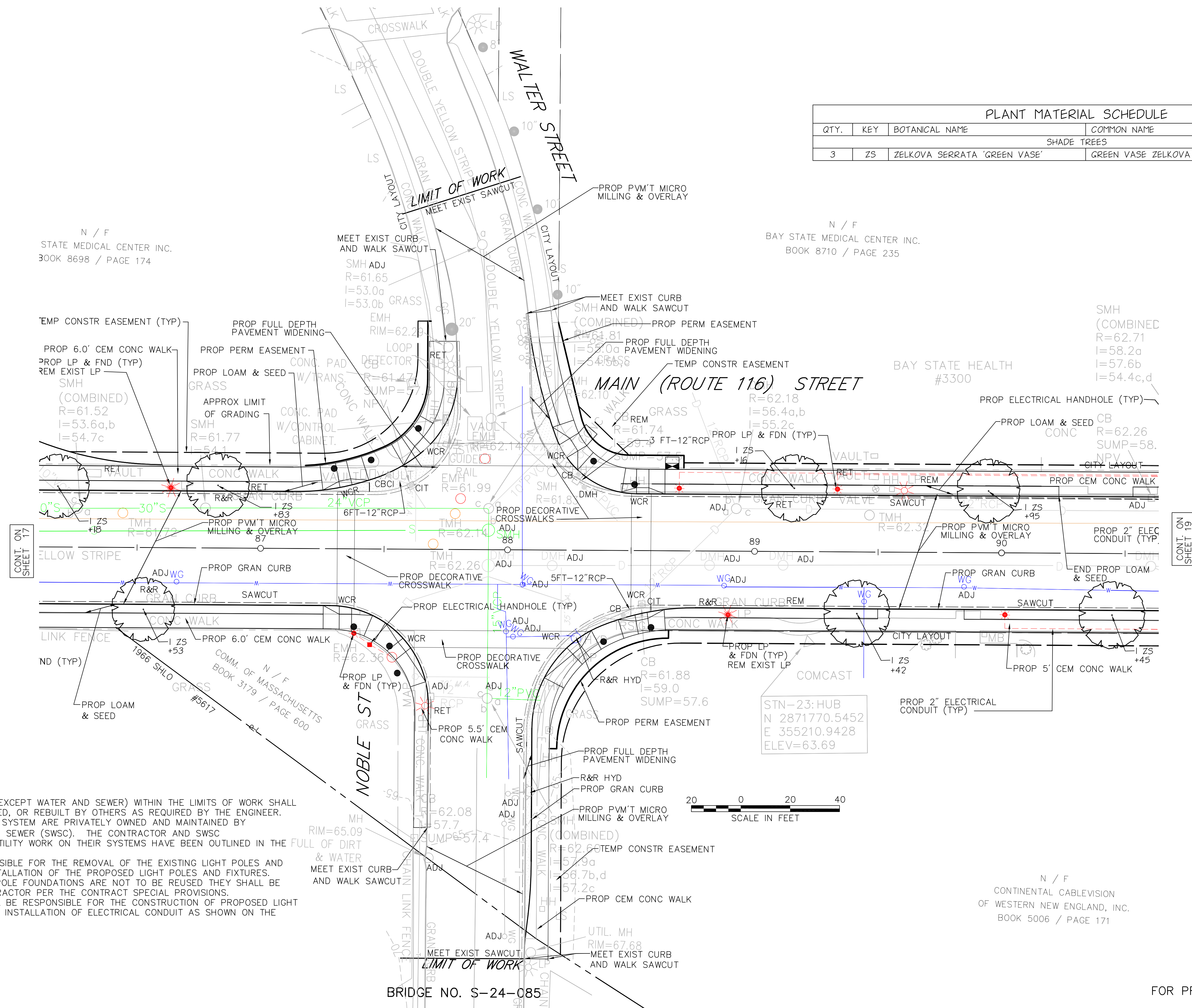
BAY STATE MEDICAL CENTER INC.
BOOK 8698 / PAGE 174

PLANT MATERIAL SCHEDULE				
QTY.	KEY	BOTANICAL NAME	COMMON NAME	SIZE
SHADE TREES				
3	ZS	ZELKOVA SERRATA 'GREEN VASE'	GREEN VASE ZELKOVA	2-2½" CAL.



GENERAL PLAN
MAIN (ROUTE 116) STREET

PLANT MATERIAL SCHEDULE				
QTY.	KEY	BOTANICAL NAME	COMMON NAME	SIZE
SHADE TREES				
3	ZS	ZELKOVA SERRATA 'GREEN VASE'	GREEN VASE ZELKOVA	2-2½" CAL.



- NOTE:**
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 3. WMECO WILL BE RESPONSIBLE FOR THE REMOVAL OF THE EXISTING LIGHT POLES AND FIXTURES, AND THE INSTALLATION OF THE PROPOSED LIGHT POLES AND FIXTURES. WHERE EXISTING LIGHT POLE FOUNDATIONS ARE NOT TO BE REUSED THEY SHALL BE REMOVED BY THE CONTRACTOR PER THE CONTRACT SPECIAL PROVISIONS.
 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF PROPOSED LIGHT POLE FOUNDATIONS AND INSTALLATION OF ELECTRICAL CONDUIT AS SHOWN ON THE PLANS.

FOR PROFILE SEE SHEET NO. 30

GENERAL PLAN
MAIN (ROUTE 116) STREET

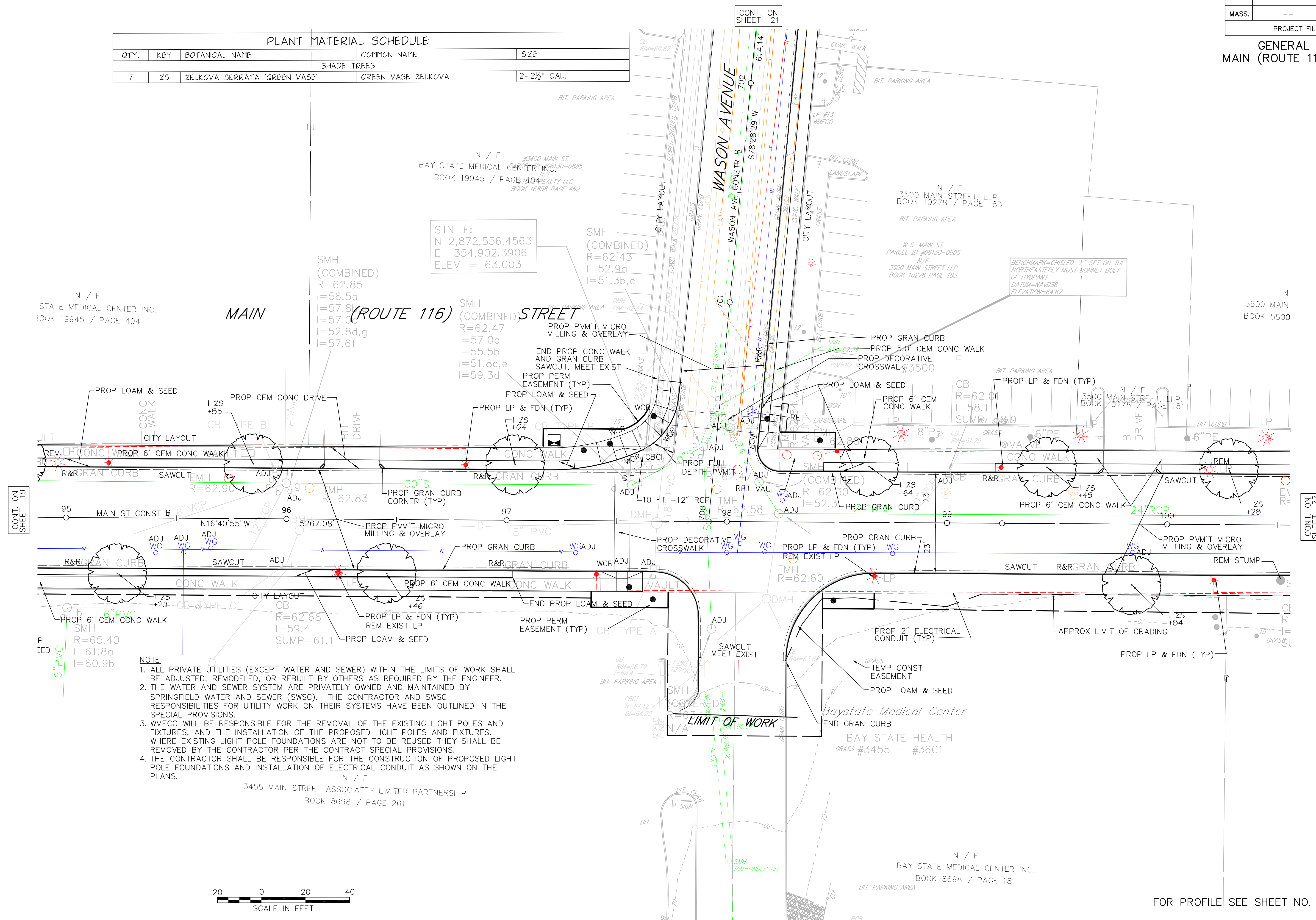
SPRINGFIELD
NORTH END/BRIGHTWOOD – NORTH SEGMENT

SEE BELOW

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	20	145
PROJECT FILE NO. 605222			

GENERAL PLAN
MAIN (ROUTE 116) STREET

PLANT MATERIAL SCHEDULE				
QTY.	KEY	BOTANICAL NAME	COMMON NAME	SIZE
			SHADE TREES	
7	ZS	ZELKOVA SERRATA 'GREEN VASE'	GREEN VASE ZELKOVA	2-2½" CAL.



FOR PROFILE SEE SHEET NO. 31

GENERAL PLAN
MAIN (ROUTE 116) STREET



HIGHWAY GUARD TYPE SS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

SEE BELOW

DRAINAGE DETAILS

SEE BELOW

SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	22	145
PROJECT FILE NO. 605222			

GENERAL PLAN
MAIN (ROUTE 116) STREET

NOTE:

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RK=CHISLED "X" SET ON THE
STERLY MOST BONNET BOLT
INT
AVD88
V=64.67

MAIN

(ROUTE 116)

STREET

N / F
3640 MAIN STREET, LLF
BOOK 16017 / PAGE 11
PLAN BOOK 313 / PLAN

N / F
3500 MAIN STREET, LLC.
BOOK 5500 / PAGE 393

N / F
3500 MAIN STREET, LLP.
BOOK 10812 / PAGE 495

N / F
3500 MAIN STREET, LLP.
BOOK 5424 / PAGE 67

DMH
R=61.33
I=53.3a
I=55.9b,d,h
I=56.5c
I=55.1f
I=55.9g

SMH
(NO FLOW)
R=61.01
I=58.5

SMH
(COMBINED)
R=61.29
I=57.2a
I=54.5b,d
I=55.5c

CB
R=60
I=57
SUMP

AREA
& FDN (TYP)
3500 MAIN STREET, LLP.
BOOK 10278 / PAGE 181

PROP LOAM & SEED
CB
R=61.48
I=57.5
SUMP=58.3

#3550
SMH
(NO FLOW)
R=61.47
I=56.1

PROP CEM CONC
DRIVE (TYP)
CB
R=60.98
I=56.0
SUMP=55.9

PROP LP & FND (TYP)
REM EXIST LP
CB
R=60.77
I=57.5
SUMP=57.8

PROP 6' CEM CONC
WALK
PROP LOAM & SEED
CB
R=60.77
I=57.5
SUMP=57.8

PROP 2" ELECTRICAL
CONDUIT (TYP)
CB
R=60.77
I=57.5
SUMP=57.8

PROP LOAM & SEED
CB
R=60.77
I=57.5
SUMP=57.8

PROP PVM'T MICRO
MILLING & OVERLAY
REM STUMP
CB
R=61.48
I=57.5
SUMP=58.3

PROP LOAM & SEED
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SUMP=58.3

PROP CEM CONC
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SUMP=57.8

PLANT MATERIAL SCHEDULE

QTY.	KEY	BOTANICAL NAME	COMMON NAME	SIZE
SHADE TREES				
5	ZS	ZELKOVA SERRATA 'GREEN VASE'	GREEN VASE ZELKOVA	2-2 1/2" CAL.

N / F
BAY STATE MEDICAL CENTER INC.
BOOK 8600 / PAGE 258

N / F
BAY STATE MEDICAL CENTER INC.
BOOK 8698 / PAGE 181



FOR PROFILE SEE SHEET NO. 31

HIGHWAY GUARD TYPE SS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

SEE BELOW

DRAINAGE DETAILS

SEE BELOW

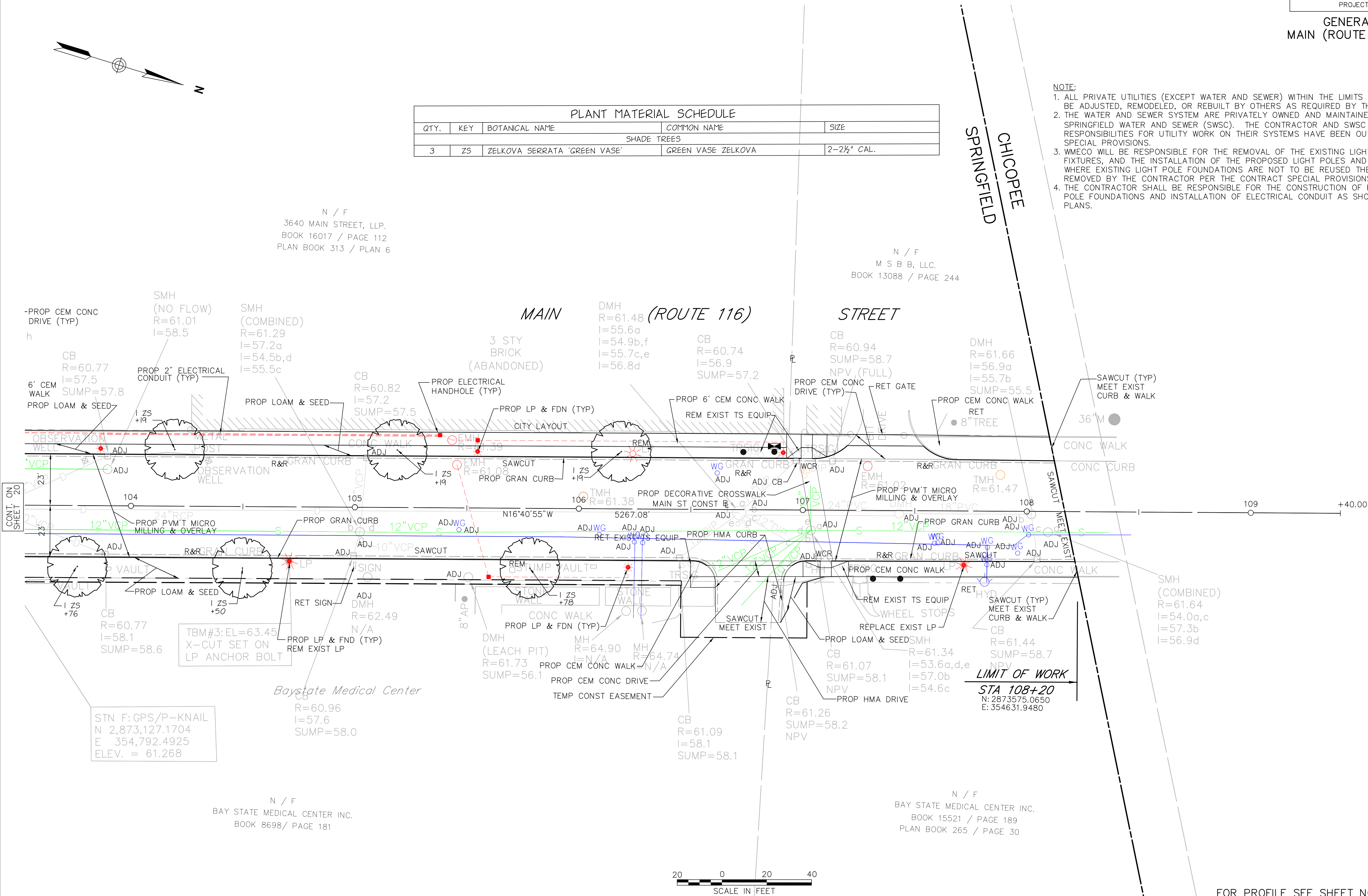
SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	23	145
PROJECT FILE NO. 605222			

GENERAL PLAN
MAIN (ROUTE 116) STREET

PLANT MATERIAL SCHEDULE				
QTY.	KEY	BOTANICAL NAME	COMMON NAME	SIZE
SHADE TREES				
3	ZS	ZELKOVA SERRATA 'GREEN VASE'	GREEN VASE ZELKOVA	2-2½" CAL.

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FOR PROFILE SEE SHEET NO. 31

HIGHWAY GUARD TYPE SS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

SEE BELOW

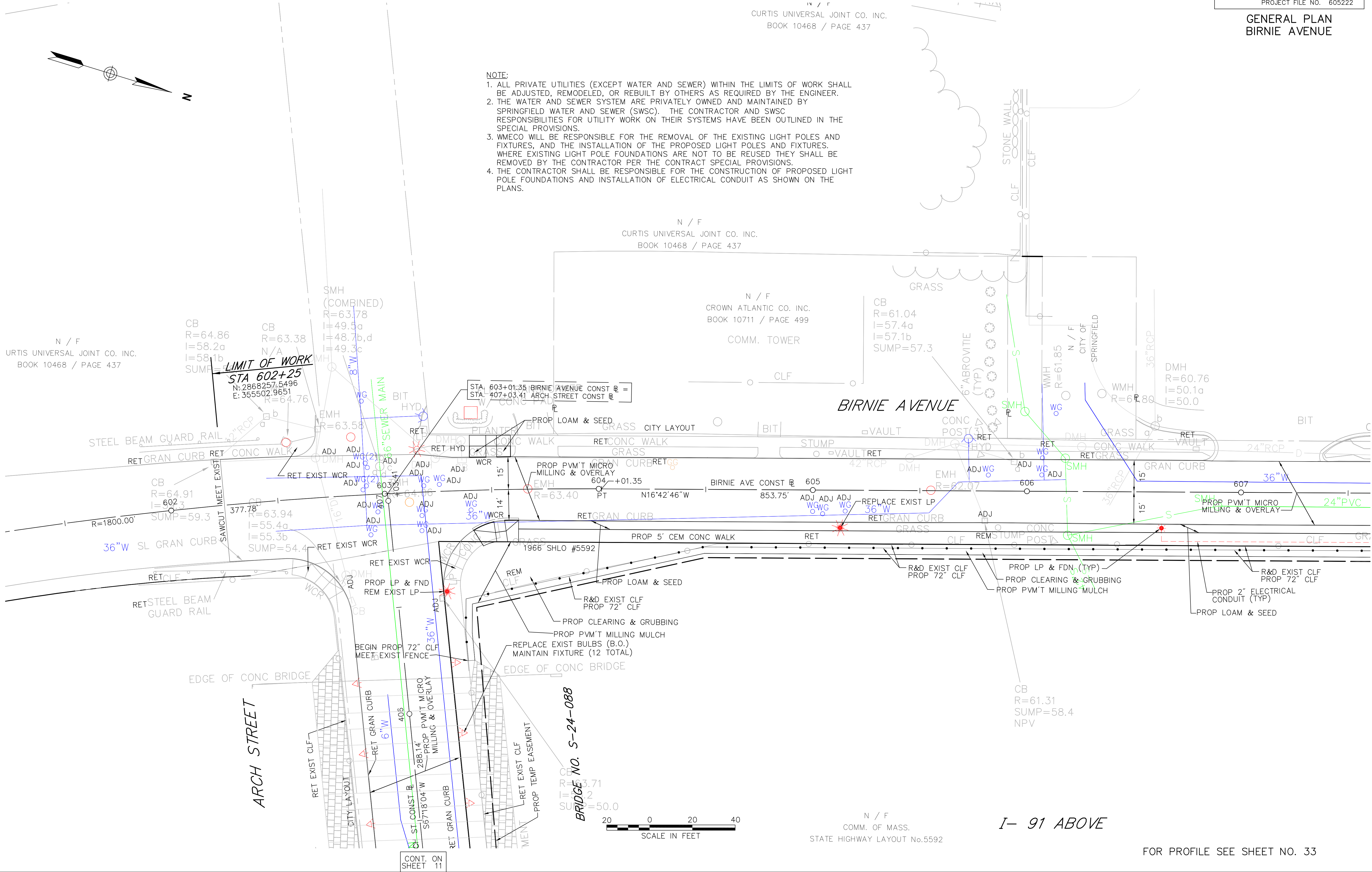
DRAINAGE DETAILS

SEE BELOW

SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	24	145
PROJECT FILE NO. 605222			

GENERAL PLAN
BIRNIE AVENUE



- NOTE:
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I- 91 ABOVE

FOR PROFILE SEE SHEET NO. 33

FOR PROFILE SEE SHEET NO. 33

HIGHWAY GUARD TYPE SS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

SEE BELOW

DRAINAGE DETAILS

SEE BELOW

SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	26	145
PROJECT FILE NO. 605222			

GENERAL PLAN
BIRNIE AVENUE

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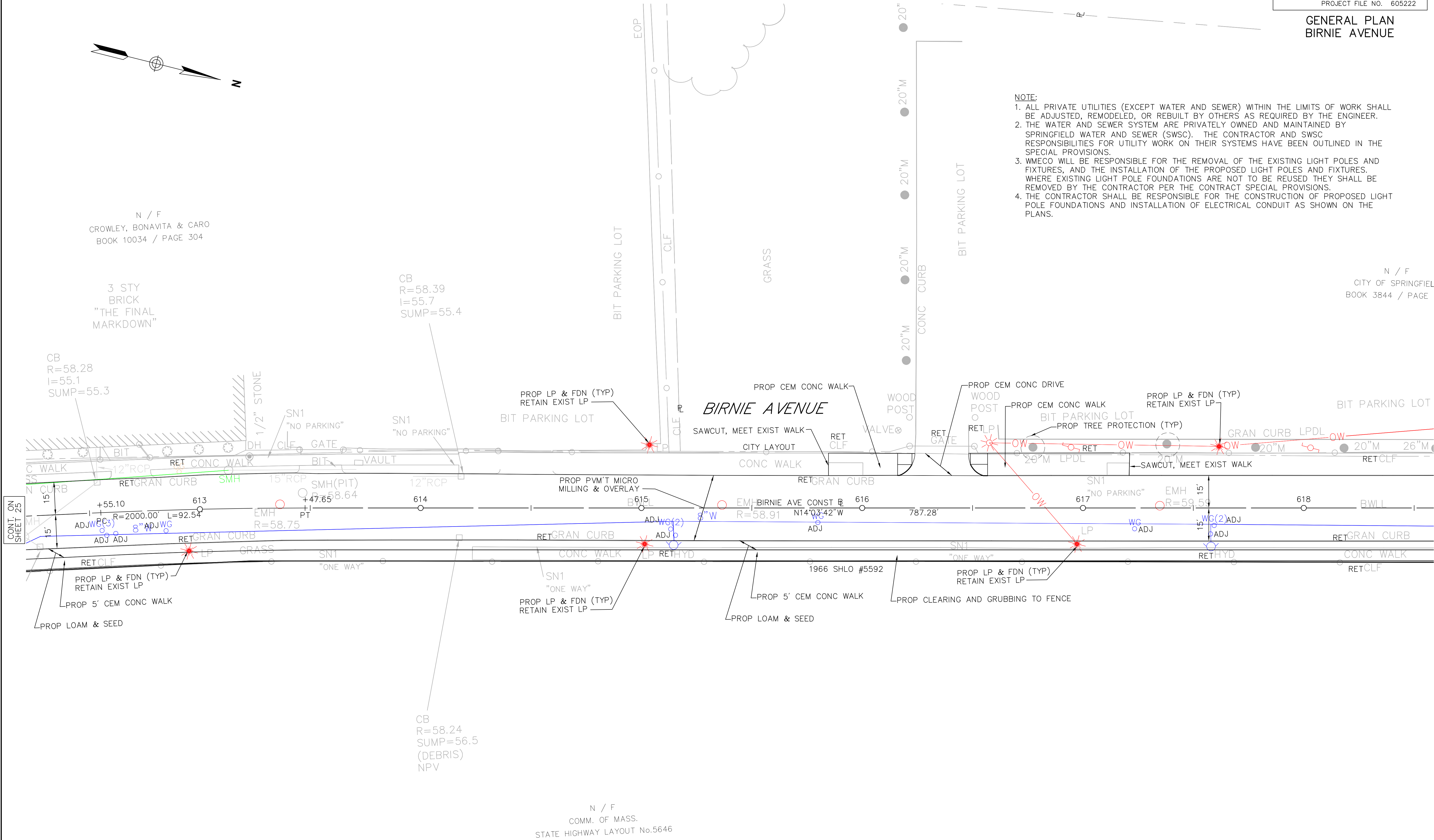
N / F
CROWLEY, BONAVITA & CARO
BOOK 10034 / PAGE 304

3 STY
BRICK
"THE FINAL
MARKDOWN"

CB
R=58.28
I=55.1
SUMP=55.3

CB
R=58.39
I=55.7
SUMP=55.4

N / F
CITY OF SPRINGFIELD
BOOK 3844 / PAGE



FOR PROFILE SEE SHEET NO. 33

HIGHWAY GUARD TYPE SS
NONE

TRAFFIC SIGNAL CONDUIT
NONE

WATER SUPPLY ALTERATIONS
SEE BELOW

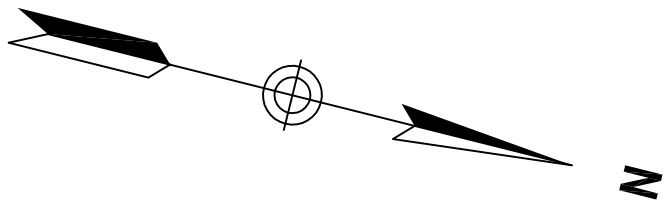
DRAINAGE DETAILS
SEE BELOW

SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	27	145

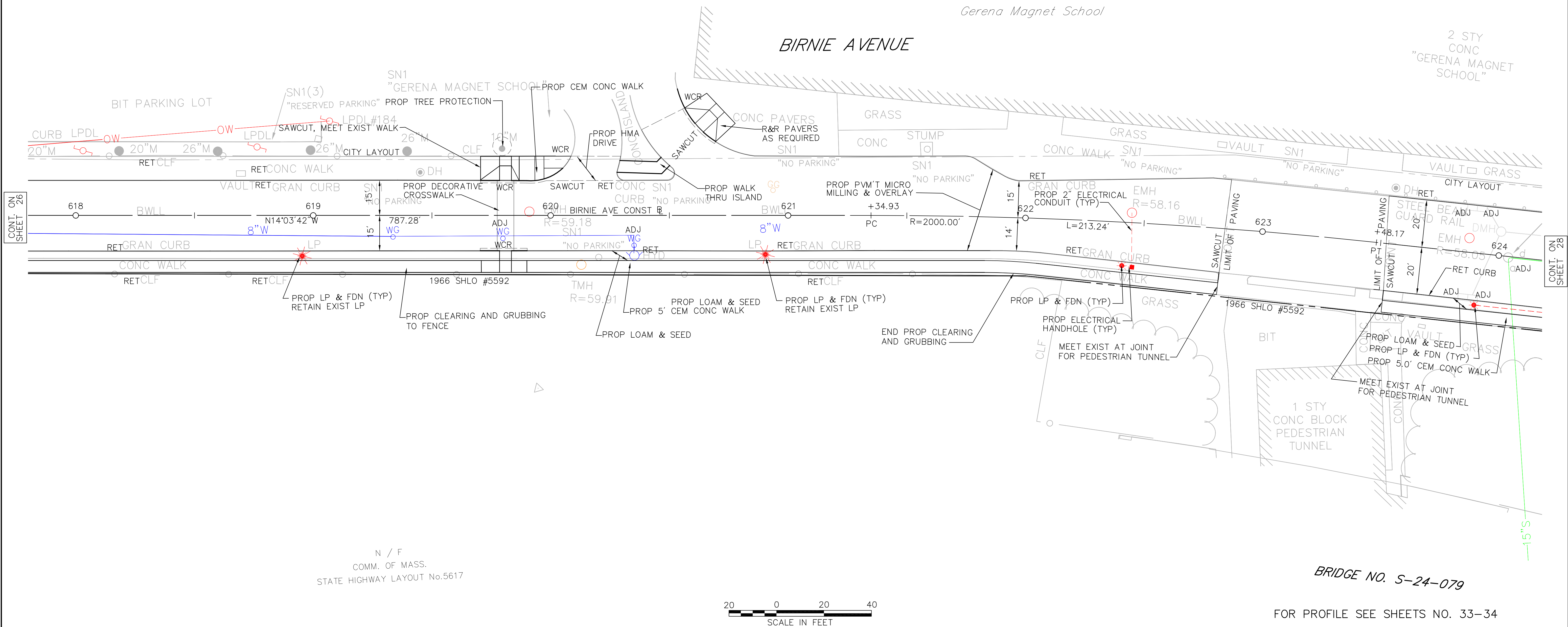
PROJECT FILE NO. 605222

GENERAL PLAN
BIRNIE AVENUE



- NOTE:
1. ALL PRIVATE UTILITIES (EXCEPT WATER AND SEWER) WITHIN THE LIMITS OF WORK SHALL BE ADJUSTED, REMODELED, OR REBUILT BY OTHERS AS REQUIRED BY THE ENGINEER.
 2. THE WATER AND SEWER SYSTEM ARE PRIVATELY OWNED AND MAINTAINED BY SPRINGFIELD WATER AND SEWER (SWSC). THE CONTRACTOR AND SWSC RESPONSIBILITIES FOR UTILITY WORK ON THEIR SYSTEMS HAVE BEEN OUTLINED IN THE SPECIAL PROVISIONS.
 3. WMECO WILL BE RESPONSIBLE FOR THE REMOVAL OF THE EXISTING LIGHT POLES AND FIXTURES, AND THE INSTALLATION OF THE PROPOSED LIGHT POLES AND FIXTURES. WHERE EXISTING LIGHT POLE FOUNDATIONS ARE NOT TO BE REUSED THEY SHALL BE REMOVED BY THE CONTRACTOR PER THE CONTRACT SPECIAL PROVISIONS.
 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF PROPOSED LIGHT POLE FOUNDATIONS AND INSTALLATION OF ELECTRICAL CONDUIT AS SHOWN ON THE PLANS.

N / F
CITY OF SPRINGFIELD
BOOK 3844 / PAGE 188



N / F
COMM. OF MASS.
STATE HIGHWAY LAYOUT No.5617



BRIDGE NO. S-24-079

FOR PROFILE SEE SHEETS NO. 33-34

HIGHWAY GUARD TYPE SS
NONE

TRAFFIC SIGNAL CONDUIT
NONE

WATER SUPPLY ALTERATIONS
SEE BELOW

DRAINAGE DETAILS
SEE BELOW

SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

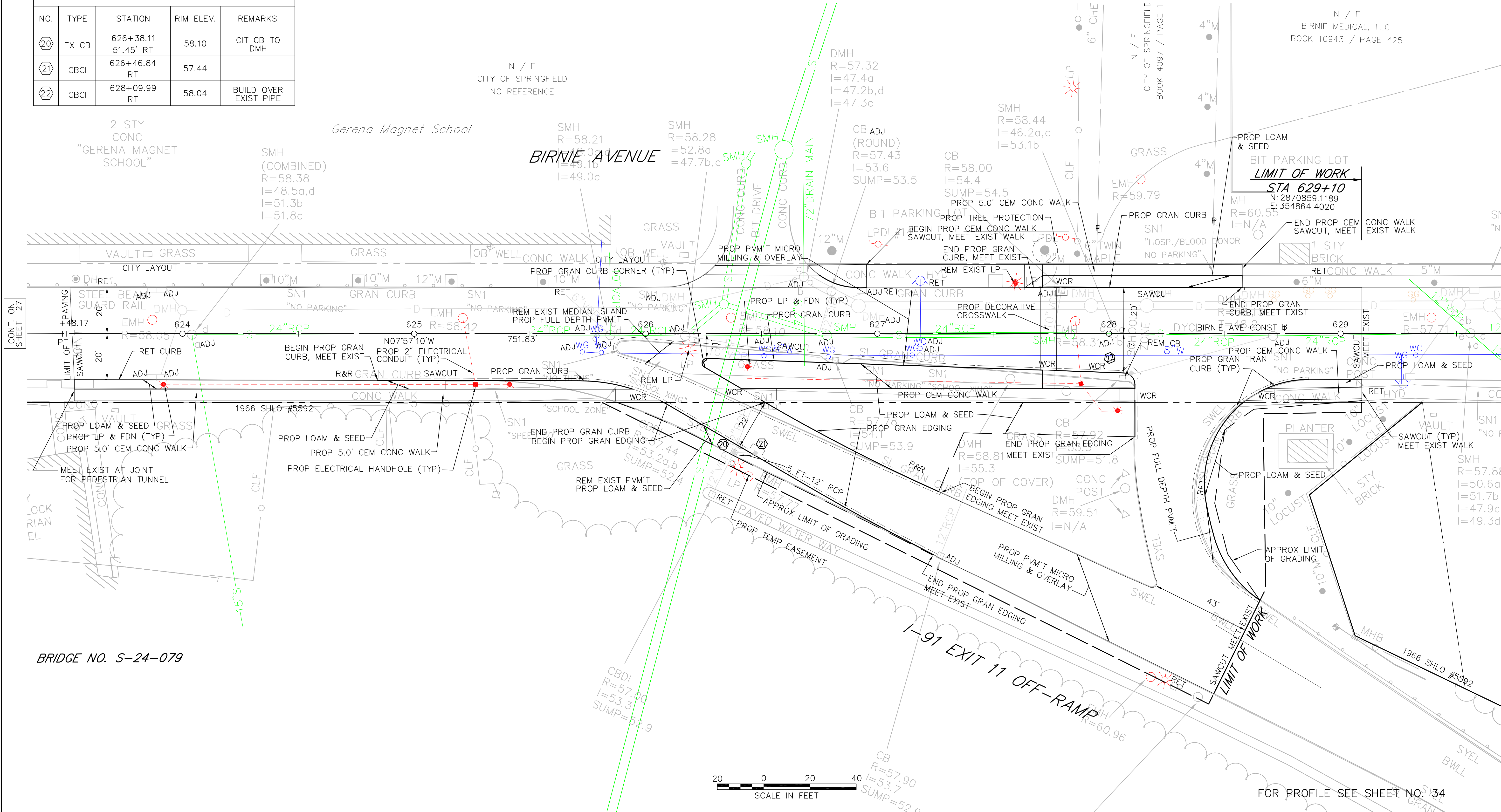
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	28	145

PROJECT FILE NO. 605222

GENERAL PLAN
BIRNIE AVENUE

DRAINAGE STRUCTURE DATA				
NO.	TYPE	STATION	RIM ELEV.	REMARKS
20	EX CB	626+38.11 51.45' RT	58.10	CIT CB TO DMH
21	CBCI	626+46.84 RT	57.44	
22	CBCI	628+09.99 RT	58.04	BUILD OVER EXIST PIPE

- NOTE:
- ALL PRIVATE UTILITIES (EXCEPT WATER AND SEWER) WITHIN THE LIMITS OF WORK SHALL BE ADJUSTED, REMODELED, OR REBUILT BY OTHERS AS REQUIRED BY THE ENGINEER.
 - THE WATER AND SEWER SYSTEM ARE PRIVATELY OWNED AND MAINTAINED BY SPRINGFIELD WATER AND SEWER (SWSC). THE CONTRACTOR AND SWSC RESPONSIBILITIES FOR UTILITY WORK ON THEIR SYSTEMS HAVE BEEN OUTLINED IN THE SPECIAL PROVISIONS.
 - WMCO WILL BE RESPONSIBLE FOR THE REMOVAL OF THE EXISTING LIGHT POLES AND FIXTURES, AND THE INSTALLATION OF THE PROPOSED LIGHT POLES AND FIXTURES. WHERE EXISTING LIGHT POLE FOUNDATIONS ARE NOT TO BE REUSED THEY SHALL BE REMOVED BY THE CONTRACTOR PER THE CONTRACT SPECIAL PROVISIONS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF PROPOSED LIGHT POLE FOUNDATIONS AND INSTALLATION OF ELECTRICAL CONDUIT AS SHOWN ON THE PLANS.



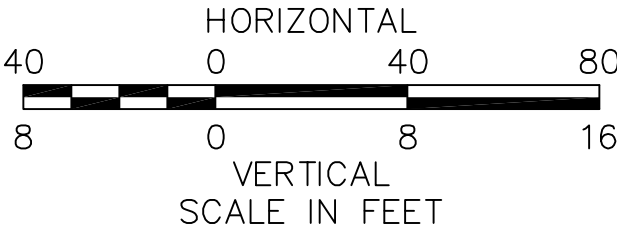
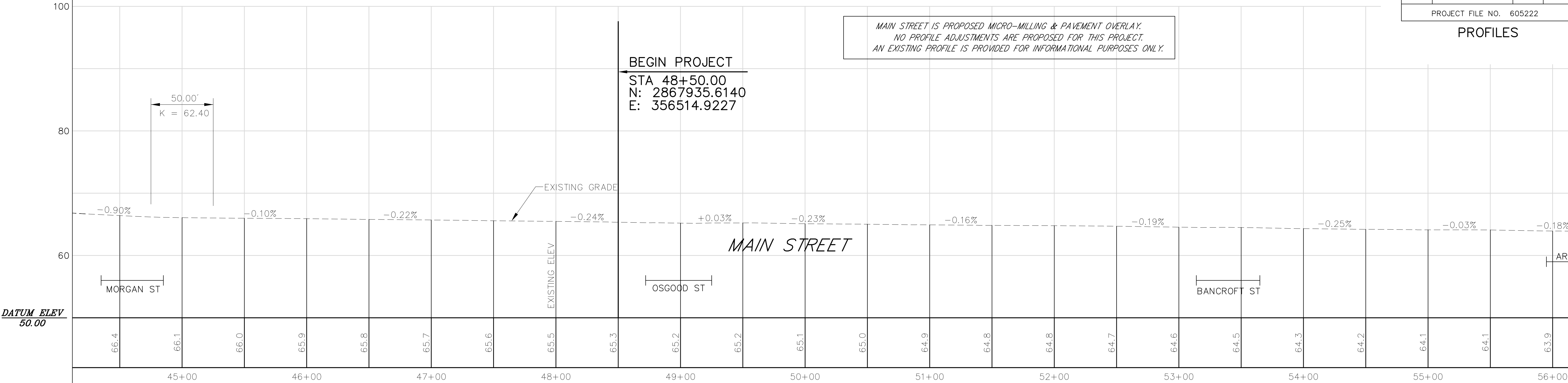
SPRINGFIELD
NORTH END/BRIGHTWOOD – NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	29	145
PROJECT FILE NO. 605222			

PROFILES

MAIN STREET IS PROPOSED MICRO-MILLING & PAVEMENT OVERLAY.
NO PROFILE ADJUSTMENTS ARE PROPOSED FOR THIS PROJECT.
AN EXISTING PROFILE IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY.

BEGIN PROJECT
STA 48+50.00
N: 2867935.6140
E: 356514.9227

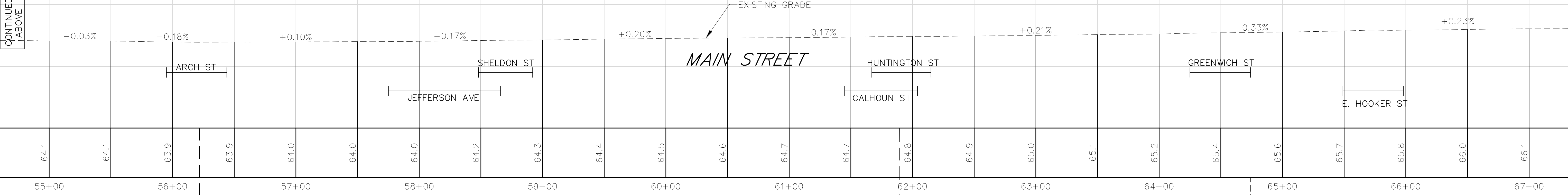


STA. 56+21.98 MAIN STREET CONST. R =
STA. 400+00.00 ARCH STREET CONST. R =

CONTINUED
BELOW

CONTINUED
ABOVE

CONT. ON
SHEET 28



STA. 56+21.98 MAIN STREET CONST. R =
STA. 400+00.00 ARCH STREET CONST. R =

STA. 61+89.53 MAIN STREET CONST. R =
STA. 500+00.00 HUNTINGTON STREET CONST. R =

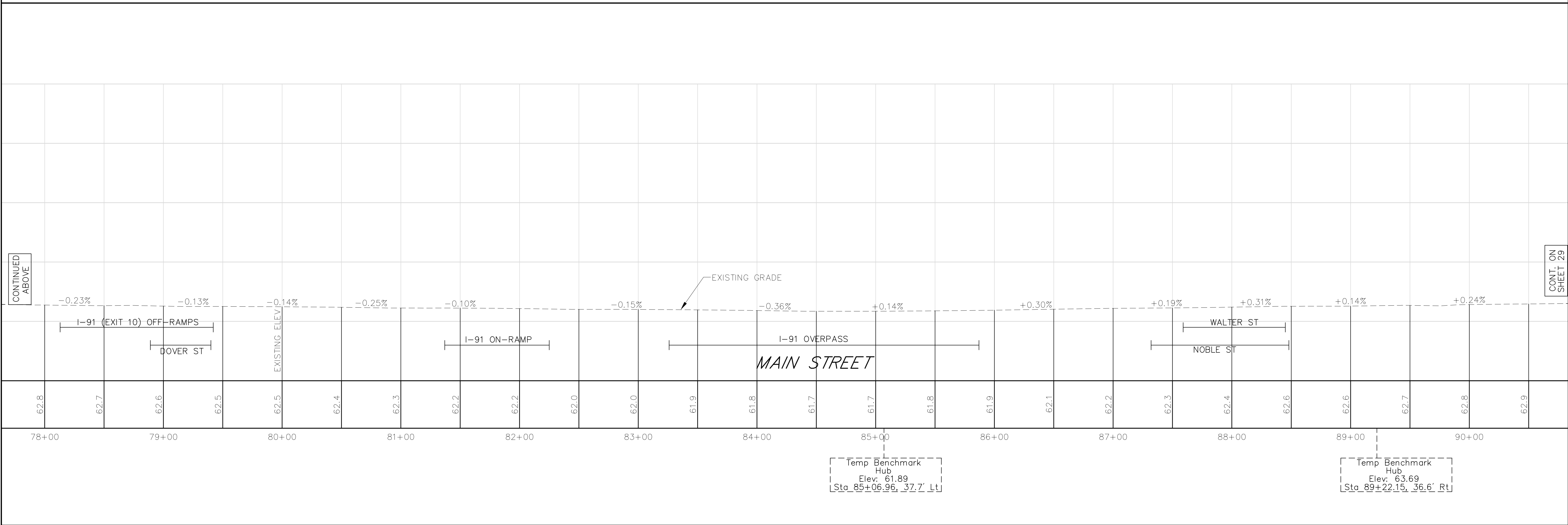
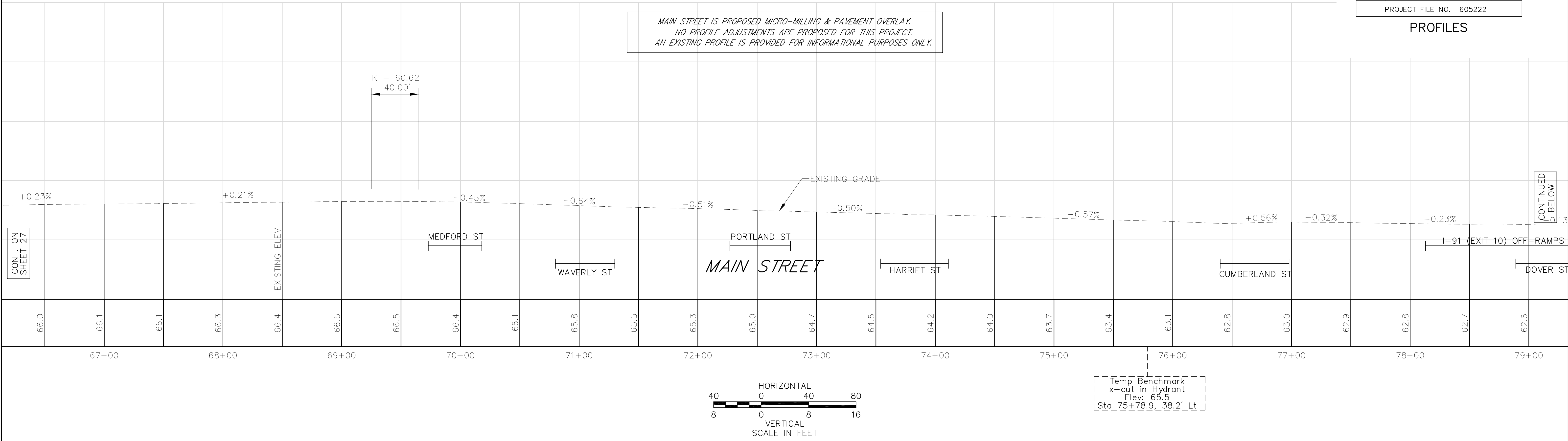
Temp Benchmark
dh set
Elev: 65.6
Sta 64+73.9, 30.7' Lt

SPRINGFIELD
NORTH END/BRIGHTWOOD – NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	30	145
PROJECT FILE NO. 605222			

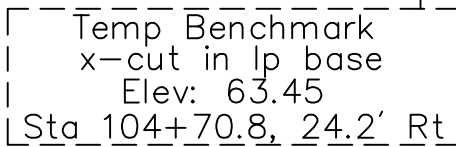
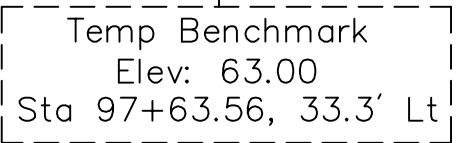
PROFILES

MAIN STREET IS PROPOSED MICRO-MILLING & PAVEMENT OVERLAY.
NO PROFILE ADJUSTMENTS ARE PROPOSED FOR THIS PROJECT.
AN EXISTING PROFILE IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY.



STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	31	145
PROJECT FILE NO. 605222			

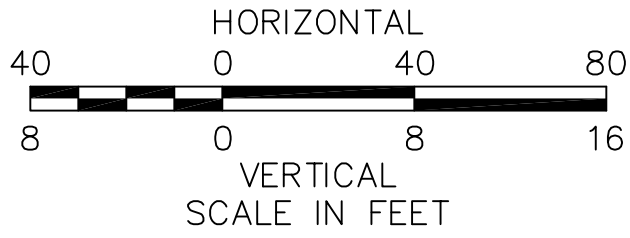
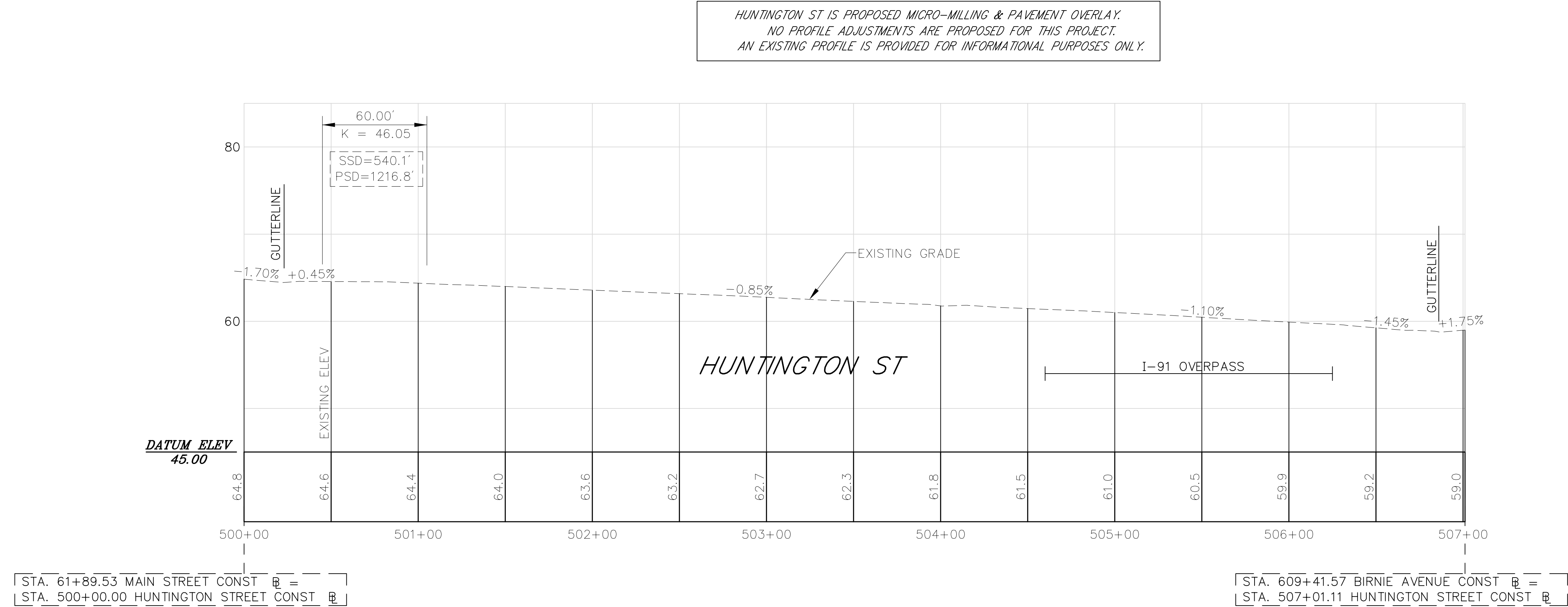
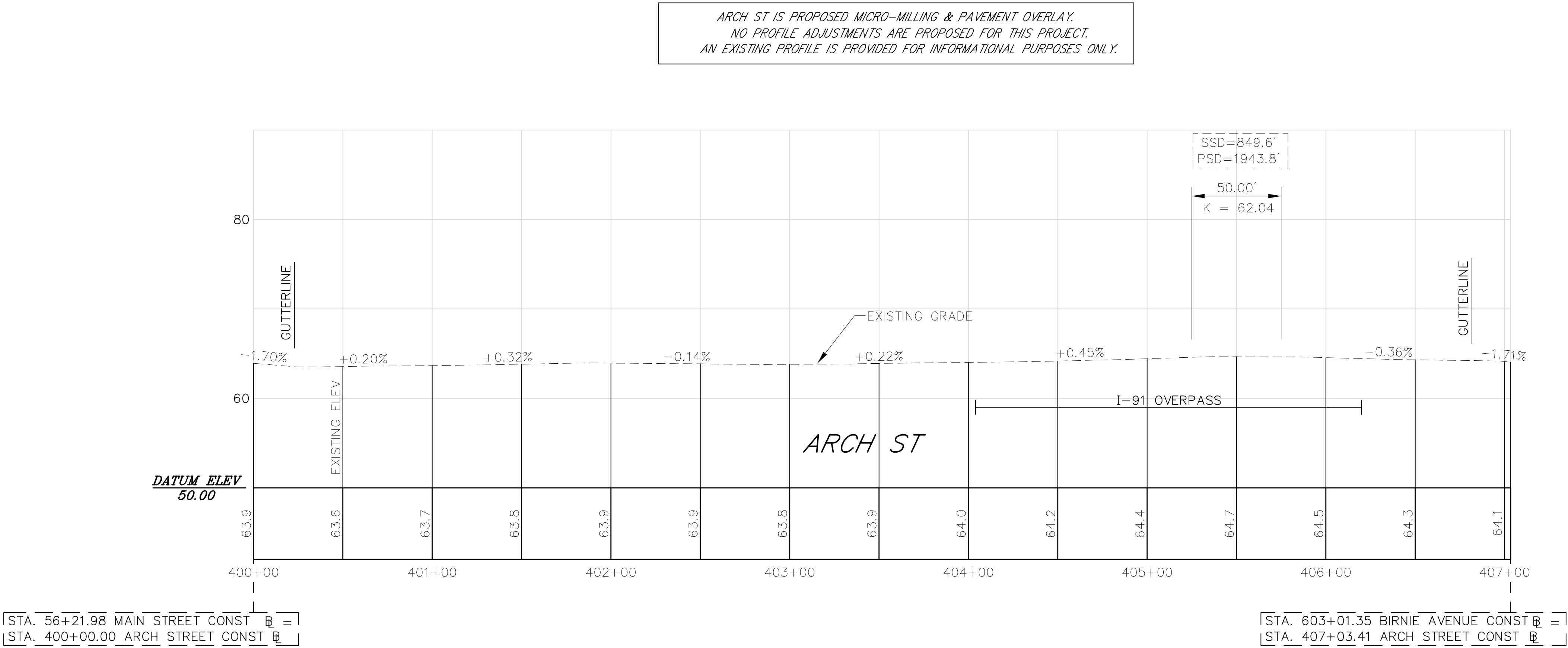
MAIN STREET IS PROPOSED MICRO-MILLING & PAVEMENT OVERLAY.
NO PROFILE ADJUSTMENTS ARE PROPOSED FOR THIS PROJECT.
AN EXISTING PROFILE IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY.



SPRINGFIELD
NORTH END/BRIGHTWOOD – NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	32	145
PROJECT FILE NO. 605222			

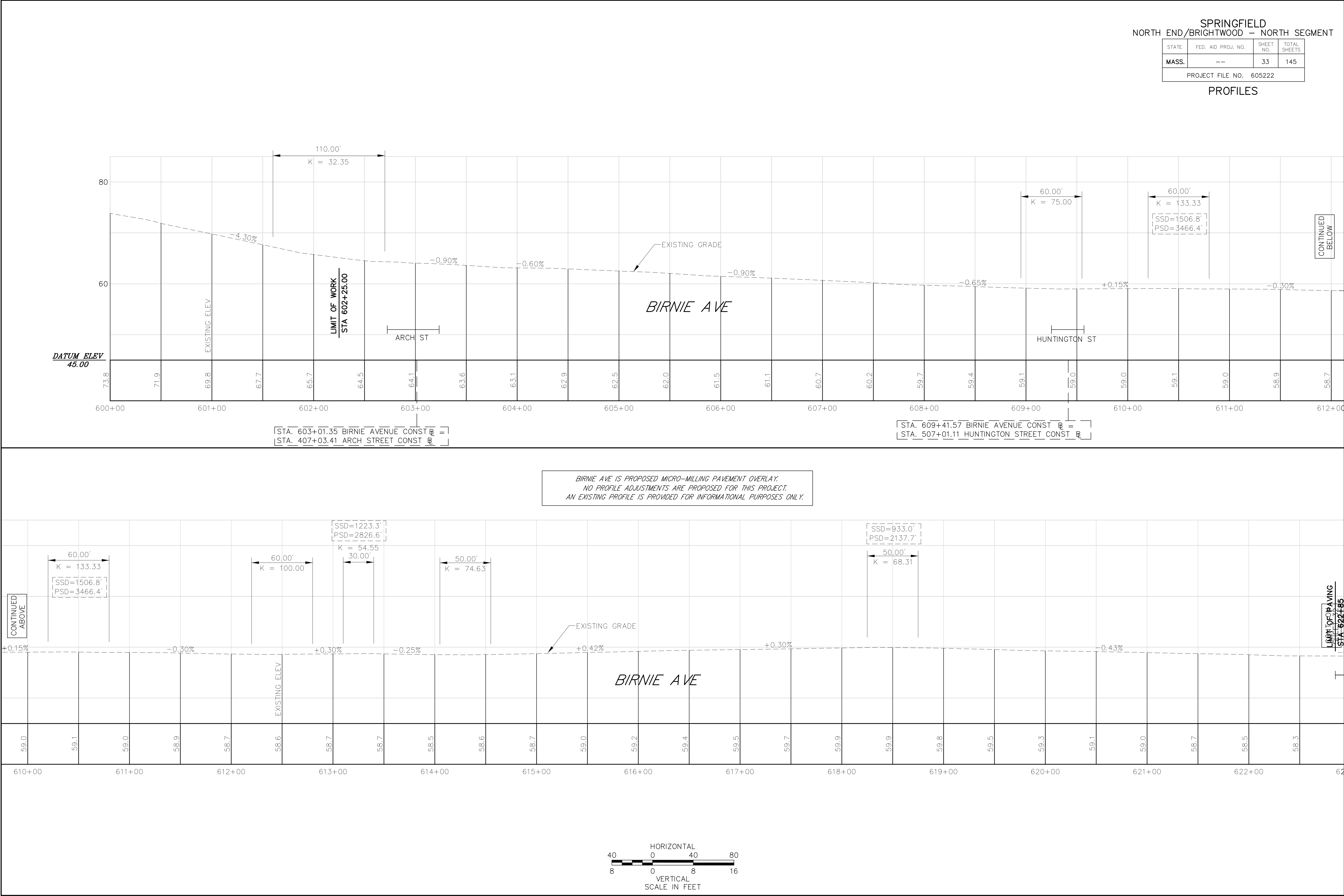
PROFILES



SPRINGFIELD
NORTH END/BRIGHTWOOD – NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	33	145
PROJECT FILE NO. 605222			

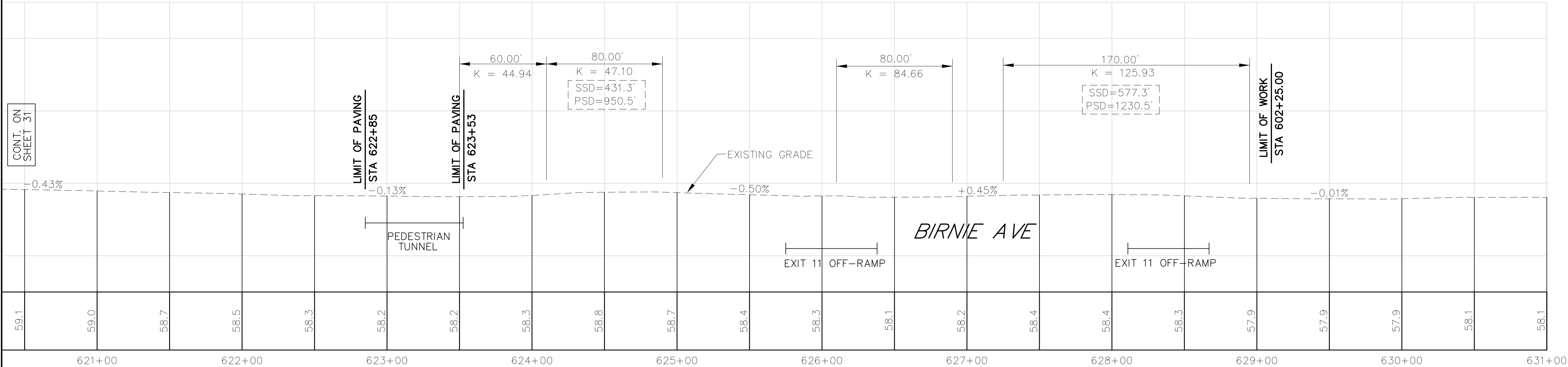
PROFILES



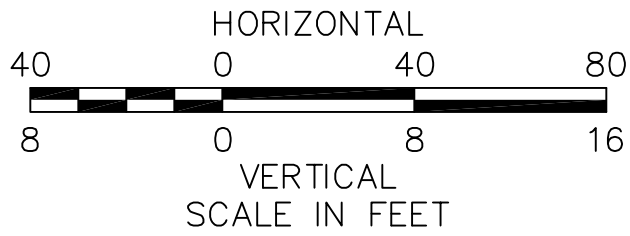
SPRINGFIELD
NORTH END/BRIGHTWOOD – NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	34	145
PROJECT FILE NO. 605222			

PROFILES



BIRNIE AVE IS PROPOSED MICRO-MILLING & PAVEMENT OVERLAY.
NO PROFILE ADJUSTMENTS ARE PROPOSED FOR THIS PROJECT.
AN EXISTING PROFILE IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY.



SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

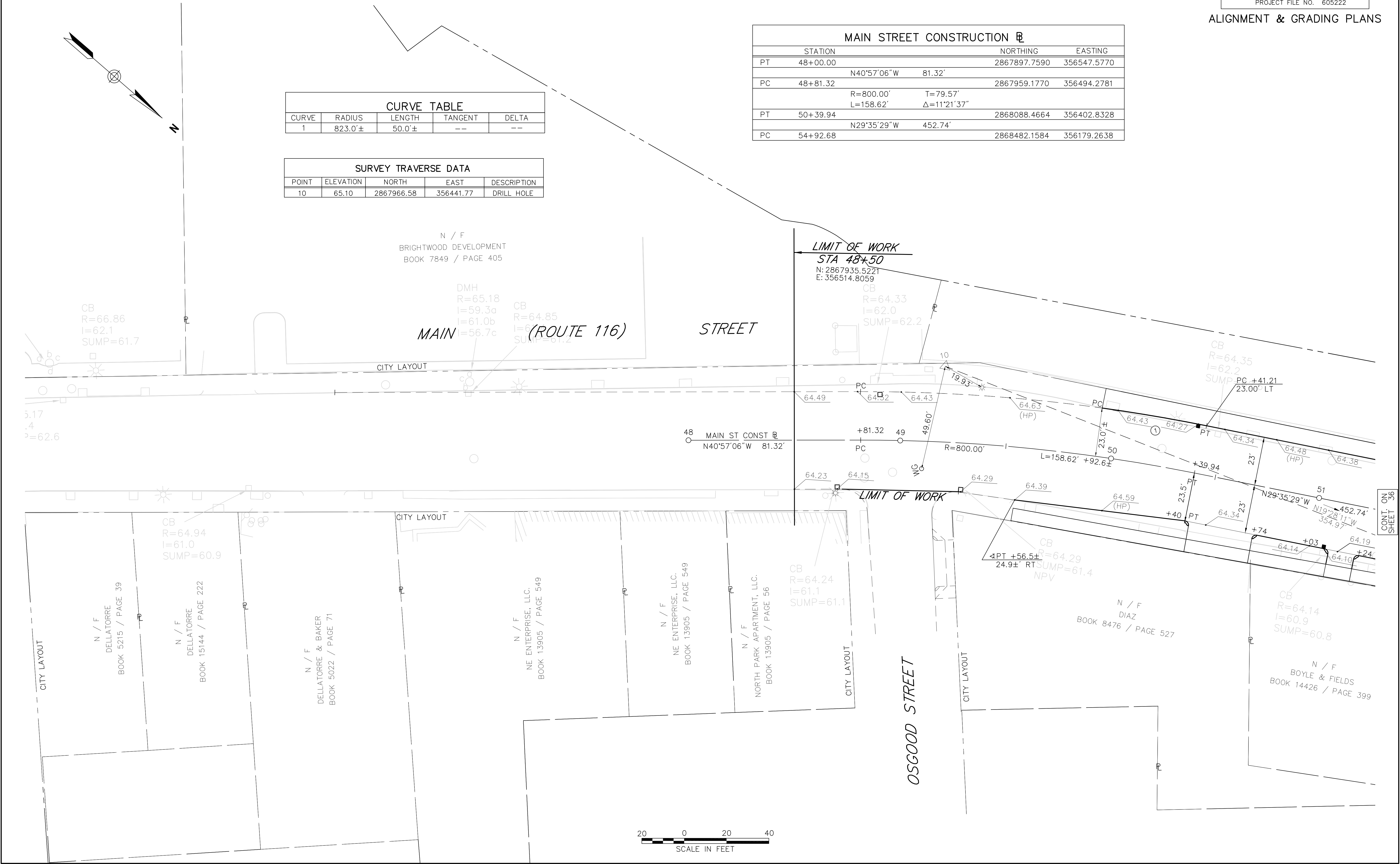
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	35	145
PROJECT FILE NO. 605222			

ALIGNMENT & GRADING PLANS

MAIN STREET CONSTRUCTION B				
STATION		NORTHING		EASTING
PT	48+00.00	N40°57'06"W 81.32'		2867897.7590 356547.5770
PC	48+81.32	R=800.00' T=79.57' L=158.62' Δ=11°21'37"		2867959.1770 356494.2781
PT	50+39.94	N29°35'29"W 452.74'		2868088.4664 356402.8328
PC	54+92.68	2868482.1584 356179.2638		

CURVE TABLE				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
1	823.0'±	50.0'±	--	--

SURVEY TRAVERSE DATA				
POINT	ELEVATION	NORTH	EAST	DESCRIPTION
10	65.10	2867966.58	356441.77	DRILL HOLE



SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

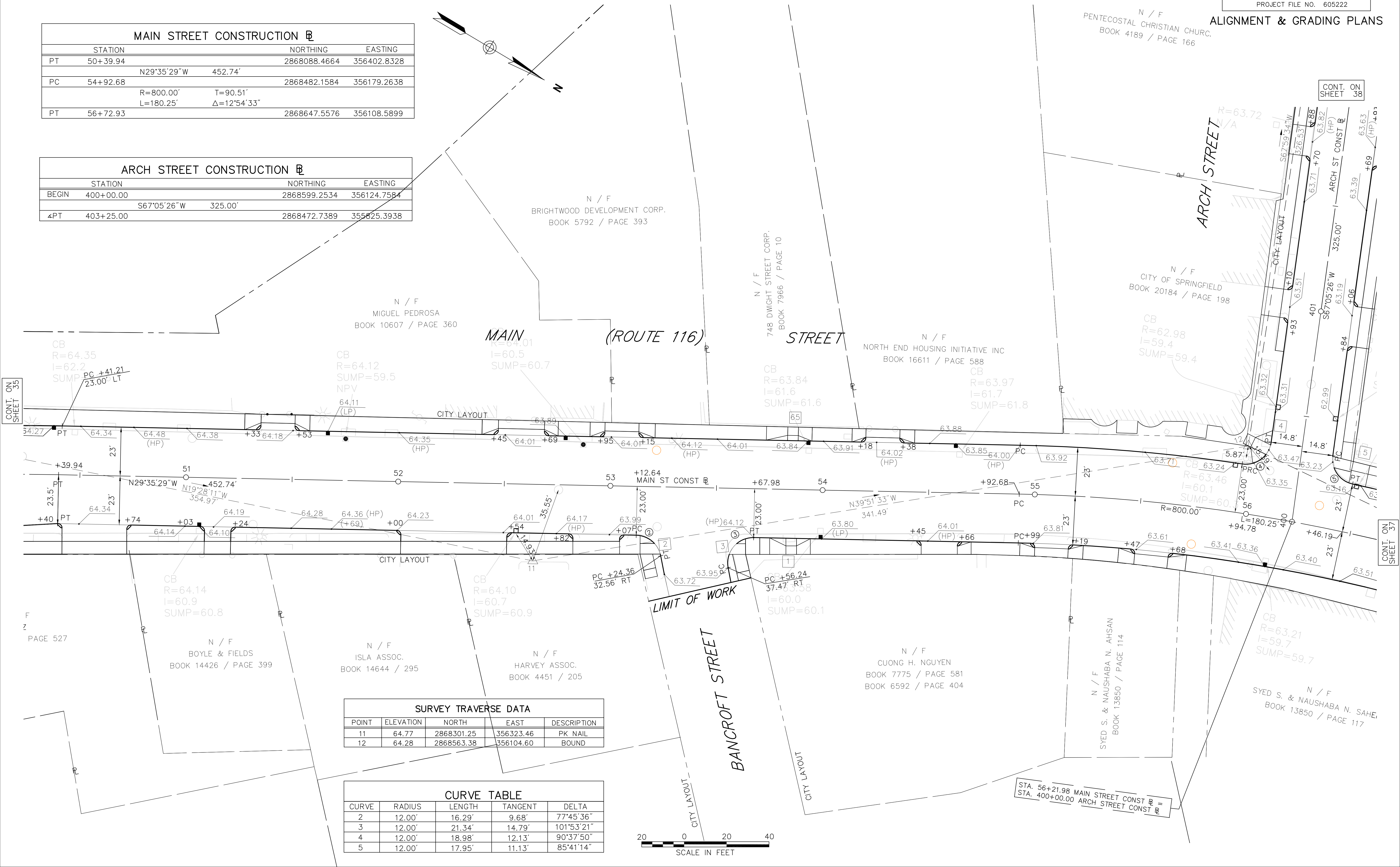
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	36	145
PROJECT FILE NO. 605222			

ALIGNMENT & GRADING PLANS

N / F
PENTECOSTAL CHRISTIAN CHURCH.
BOOK 4189 / PAGE 166

MAIN STREET CONSTRUCTION				
STATION	NORTHING		EASTING	
PT	50+39.94	2868088.4664	356402.8328	
	N29°35'29"W	452.74'		
PC	54+92.68	2868482.1584	356179.2638	
	R=800.00'	T=90.51'		
	L=180.25'	Δ=12°54'33"		
PT	56+72.93	2868647.5576	356108.5899	

ARCH STREET CONSTRUCTION				
STATION	NORTHING		EASTING	
BEGIN	400+00.00	2868599.2534	356124.7584	
	S67°05'26"W	325.00'		
4PT	403+25.00	2868472.7389	355825.3938	



SURVEY TRAVERSE DATA				
POINT	ELEVATION	NORTH	EAST	DESCRIPTION
11	64.77	2868301.25	356323.46	PK NAIL
12	64.28	2868563.38	356104.60	BOUND

CURVE TABLE				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
2	12.00'	16.29'	9.68'	77°45'36"
3	12.00'	21.34'	14.79'	101°53'21"
4	12.00'	18.98'	12.13'	90°37'50"
5	12.00'	17.95'	11.13'	85°41'14"

SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	37	145
PROJECT FILE NO. 605222			

ALIGNMENT & GRADING PLANS

BOOK 10110 / PAGE 412

ARCH STREET CONSTRUCTION			
STATION	NORTHING	EASTING	
BEGIN 400+00.00	2868599.2534	356124.7584	
	S67°05'26"W	325.00'	
4PT 403+25.00	2868472.7389	355825.3938	

N / F
PENTECOSTAL CHRISTIAN CHURCH
BOOK 8619 / PAGE 375
BOOK 4563 / PAGE 286

N / F
CHUNG
BOOK 14916 / PAGE 482

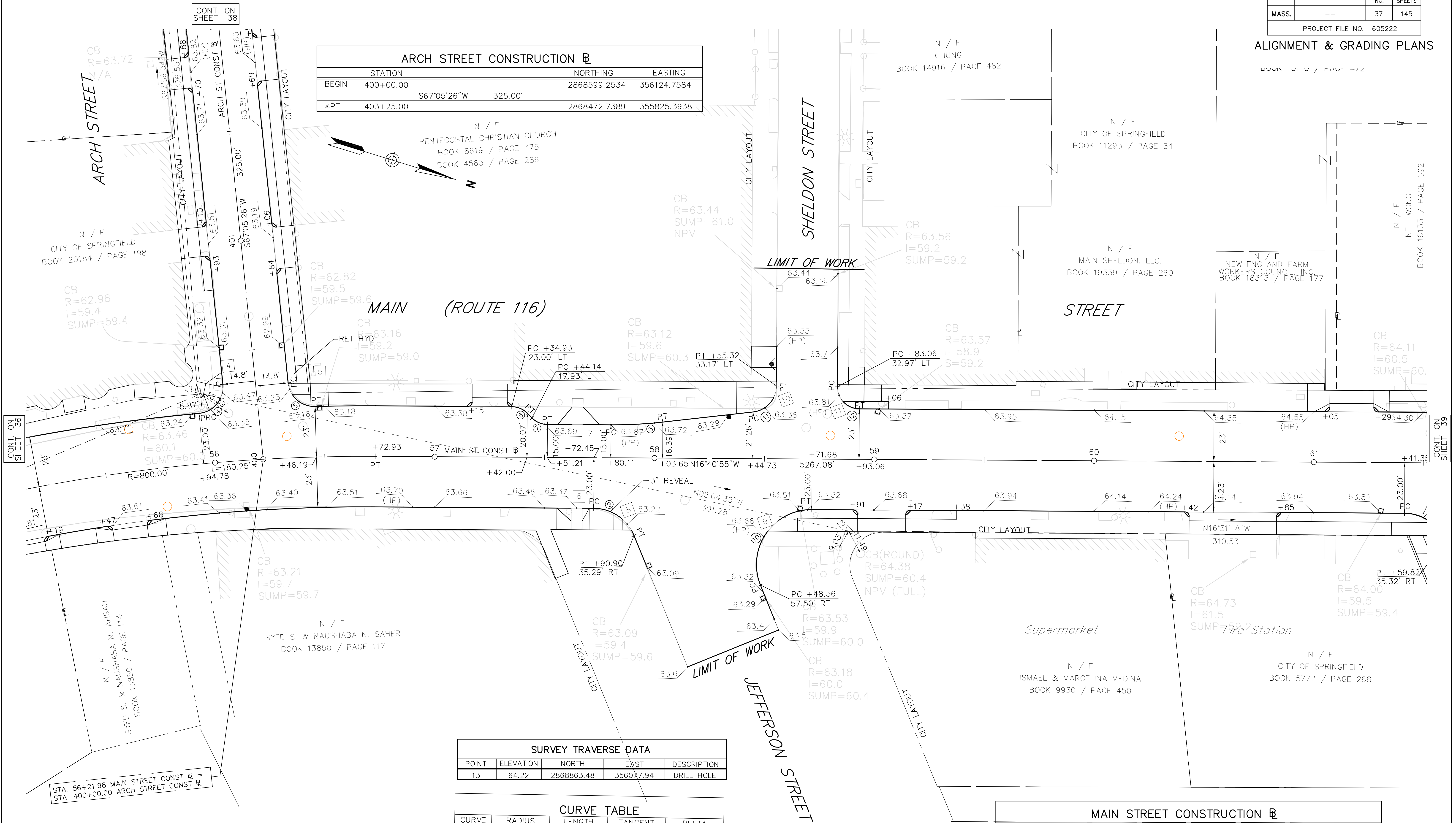
N / F
CITY OF SPRINGFIELD
BOOK 11293 / PAGE 34

N / F
MAIN SHELDON, LLC.
BOOK 19339 / PAGE 260

N / F
NEW ENGLAND FARM
WORKERS COUNCIL, INC.
BOOK 18313 / PAGE 177

N / F
NEIL WONG
BOOK 16133 / PAGE 592

CB
R=64.11
I=60.5
SUMP=60.0



SURVEY TRAVERSE DATA				
POINT	ELEVATION	NORTH	EAST	DESCRIPTION
13	64.22	2868863.48	356077.94	DRILL HOLE

CURVE TABLE				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
6	10.00'	7.85'	4.14'	45°00'00"
7	10.00'	7.85'	4.14'	45°00'00"
8	200.00'	23.60'	11.81'	6°45'37"
9	20.00'	23.50'	13.32'	67°19'10"
10	25.00'	49.02'	37.30'	112°20'12"
11	12.00'	17.42'	10.65'	83°11'43"
12	10.00'	15.69'	9.98'	89°52'18"

MAIN STREET CONSTRUCTION		
STATION	NORTHING	EASTING
PC 54+92.68	2868482.1584	356179.2638
	R=800.00' T=90.51'	L=180.25' Δ=12°54'33"
PT 56+72.93	2868647.5576	356108.5899
END 109+40.00	2873692.9540	354596.6198



ALIGNMENT & GRADING PLANS

SURVEY TRAVERSE DATA				
POINT	ELEVATION	NORTH	EAST	DESCRIPTION
46	64.19	2868440.96	355801.87	DRILL HOLE
45	63.75	2868290.25	355465.43	PK NAIL

ARCH STREET

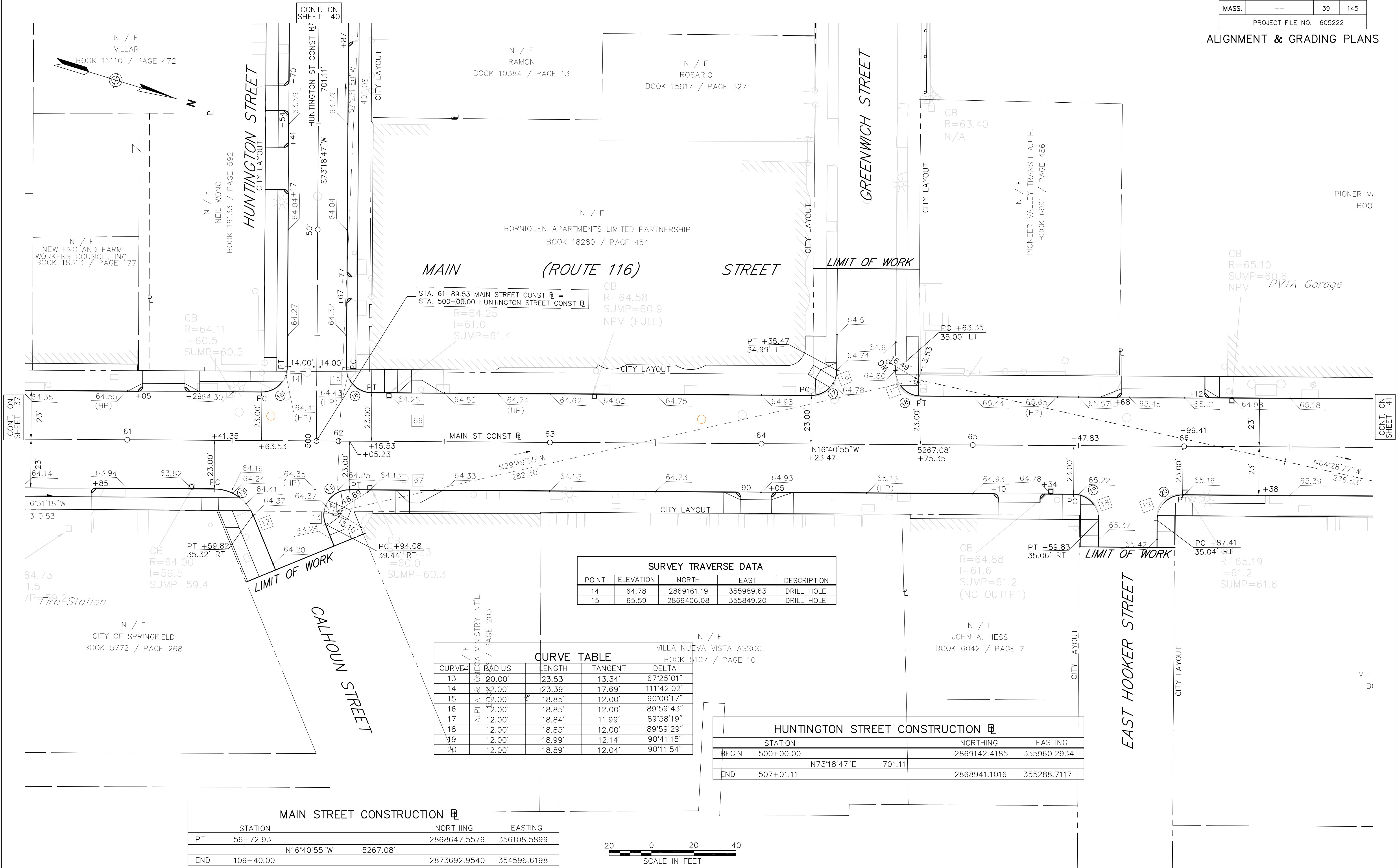


SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	39	145

PROJECT FILE NO. 605222

ALIGNMENT & GRADING PLANS



SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

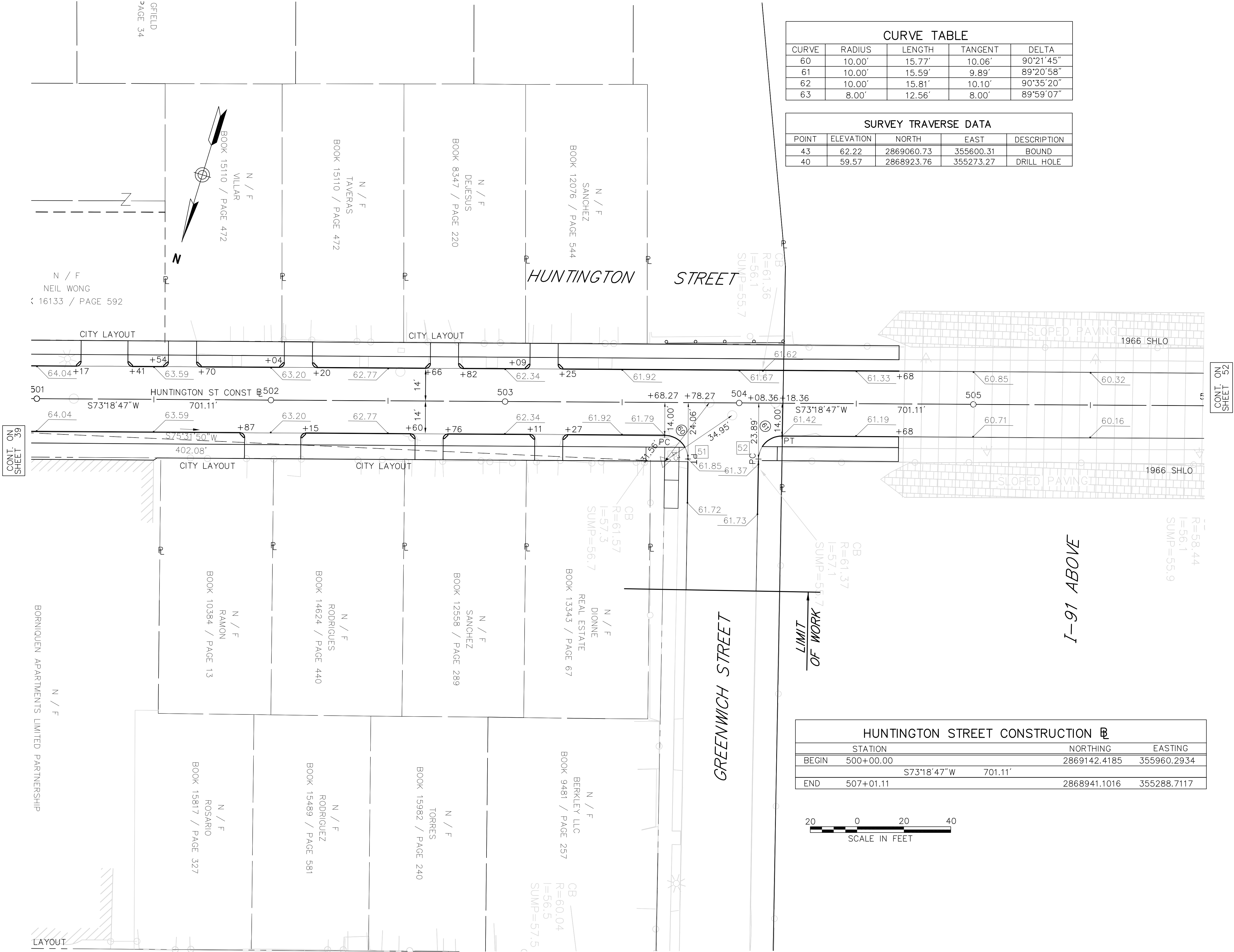
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	40	145

PROJECT FILE NO. 605222

ALIGNMENT & GRADING PLANS

CURVE TABLE				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
60	10.00'	15.77'	10.06'	90°21'45"
61	10.00'	15.59'	9.89'	89°20'58"
62	10.00'	15.81'	10.10'	90°35'20"
63	8.00'	12.56'	8.00'	89°59'07"

SURVEY TRAVERSE DATA				
POINT	ELEVATION	NORTH	EAST	DESCRIPTION
43	62.22	2869060.73	355600.31	BOUND
40	59.57	2868923.76	355273.27	DRILL HOLE



HUNTINGTON STREET CONSTRUCTION			
	STATION	NORTHING	EASTING
BEGIN	500+00.00	2869142.4185	355960.2934
		S73°18'47"W	701.11'
END	507+01.11	2868941.1016	355288.7117

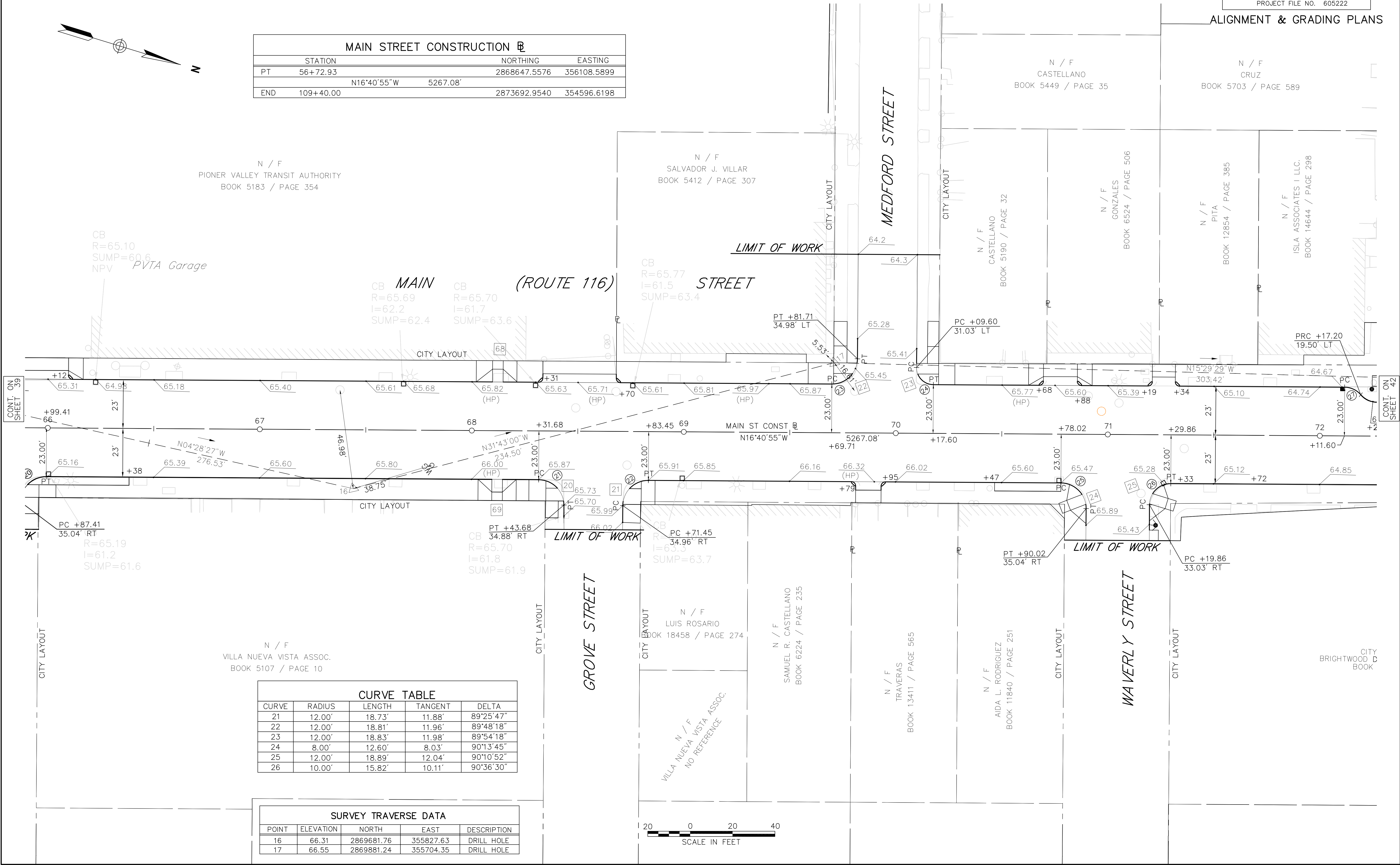
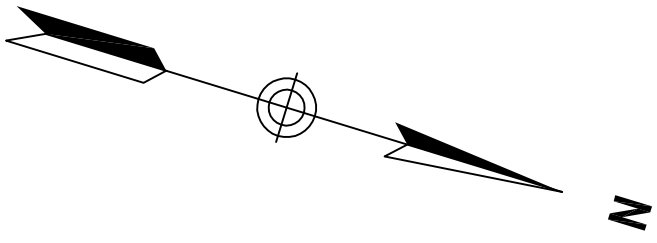


SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	41	145
PROJECT FILE NO. 605222			

ALIGNMENT & GRADING PLANS

MAIN STREET CONSTRUCTION				
STATION	NORTHING		EASTING	
PT	56+72.93	2868647.5576	356108.5899	
		N16°40'55"W	5267.08'	
END	109+40.00	2873692.9540	354596.6198	



CURVE TABLE				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
21	12.00'	18.73'	11.88'	89°25'47"
22	12.00'	18.81'	11.96'	89°48'18"
23	12.00'	18.83'	11.98'	89°54'18"
24	8.00'	12.60'	8.03'	90°13'45"
25	12.00'	18.89'	12.04'	90°10'52"
26	10.00'	15.82'	10.11'	90°36'30"

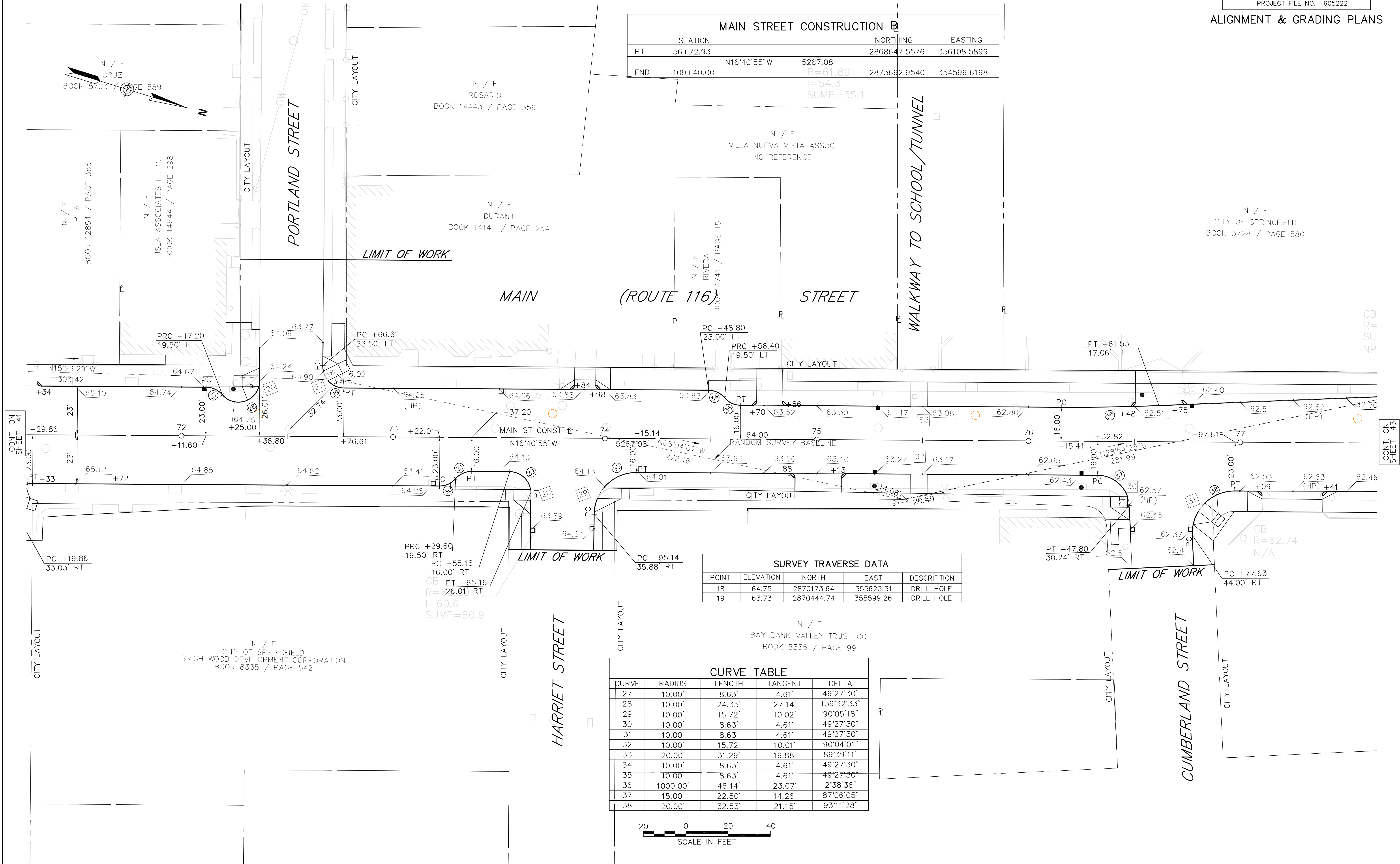
SURVEY TRAVERSE DATA				
POINT	ELEVATION	NORTH	EAST	DESCRIPTION
16	66.31	2869681.76	355827.63	DRILL HOLE
17	66.55	2869881.24	355704.35	DRILL HOLE

SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	42	145

PROJECT FILE NO. 605222

ALIGNMENT & GRADING PLANS



SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	43	145

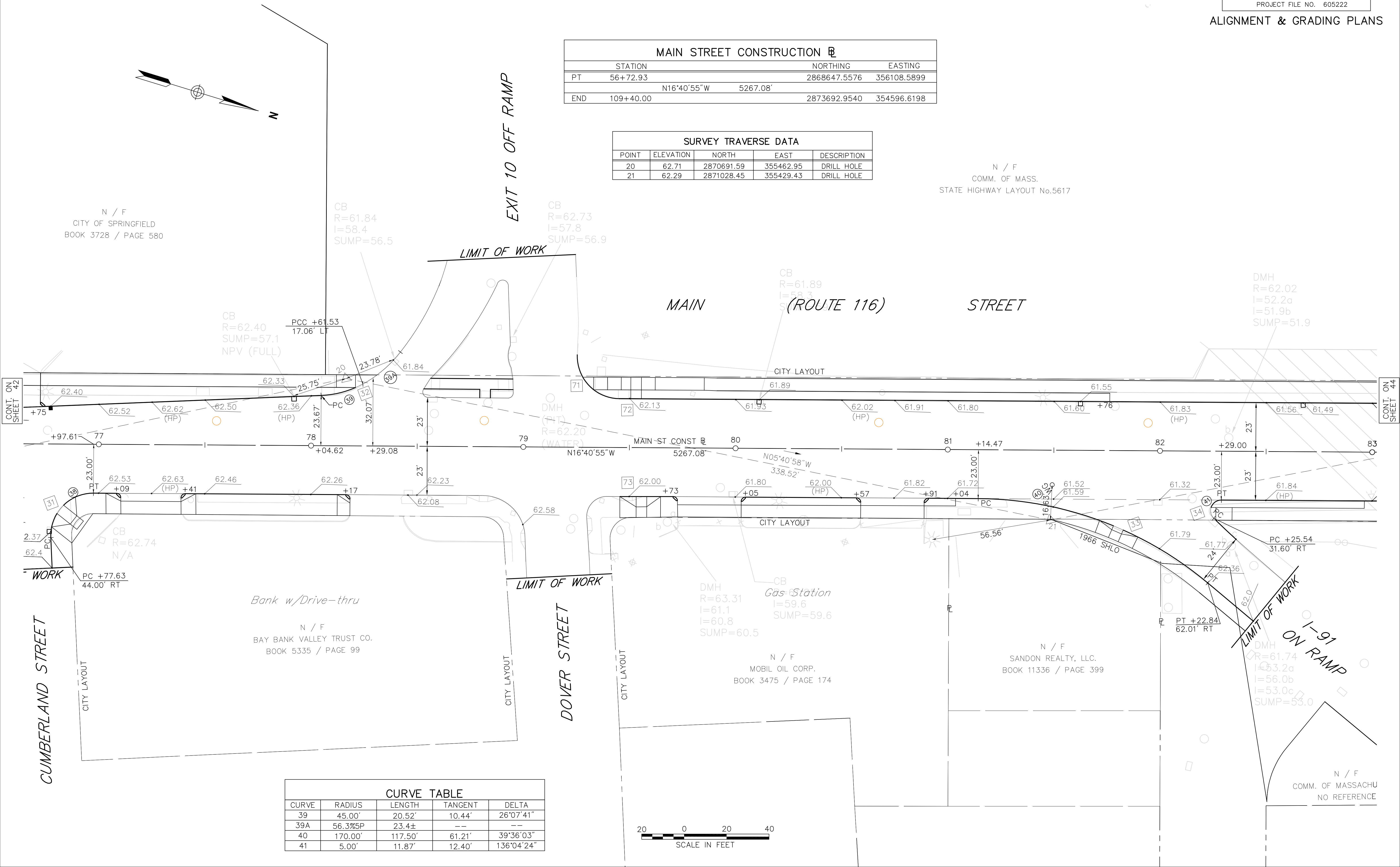
PROJECT FILE NO. 605222

ALIGNMENT & GRADING PLANS

MAIN STREET CONSTRUCTION				
STATION	NORTHING		EASTING	
PT	56+72.93	2868647.5576		356108.5899
	N16°40'55"W		5267.08'	
END	109+40.00	2873692.9540		354596.6198

SURVEY TRAVERSE DATA				
POINT	ELEVATION	NORTH	EAST	DESCRIPTION
20	62.71	2870691.59	355462.95	DRILL HOLE
21	62.29	2871028.45	355429.43	DRILL HOLE

N / F
COMM. OF MASS.
STATE HIGHWAY LAYOUT No.5617



CURVE TABLE				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
39	45.00'	20.52'	10.44'	26°07'41"
39A	56.3%5P	23.4±	--	--
40	170.00'	117.50'	61.21'	39°36'03"
41	5.00'	11.87'	12.40'	136°04'24"

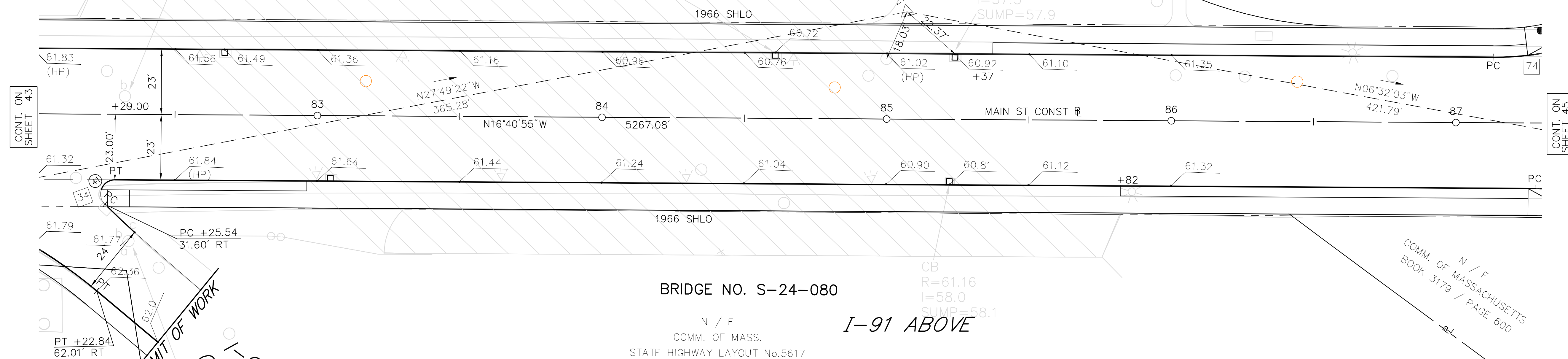


N / F
BAY STATE MEDICAL CENTER INC.
BOOK 13186 / PAGE 546

N / F
BAY STATE MEDICAL CENTER INC.
BOOK 8698 / PAGE 174

MAIN (ROUTE 116) STREET

DMH
R=61.94
CB TOP OF
R=60.98 COVER=57.5
I=57.5
/SUMP=57.9



BRIDGE NO. S-24-080

I-91 ABOVE

N / F
COMM. OF MASS.
STATE HIGHWAY LAYOUT No.5617

MAIN STREET CONSTRUCTION			
	STATION	NORTHING	EASTING
PT	56+72.93	2868647.5576	356108.5899
	N16°40'55"W	5267.08'	
END	109+40.00	2873692.9540	354596.6198

SURVEY TRAVERSE DATA				
POINT	ELEVATION	NORTH	EAST	DESCRIPTION
22	61.89	2871351.50	355258.94	STEEL NAIL

62.0
LIMIT OF WORK
DMH
1-91 ON RAMP
R=61.74
L=53.2a

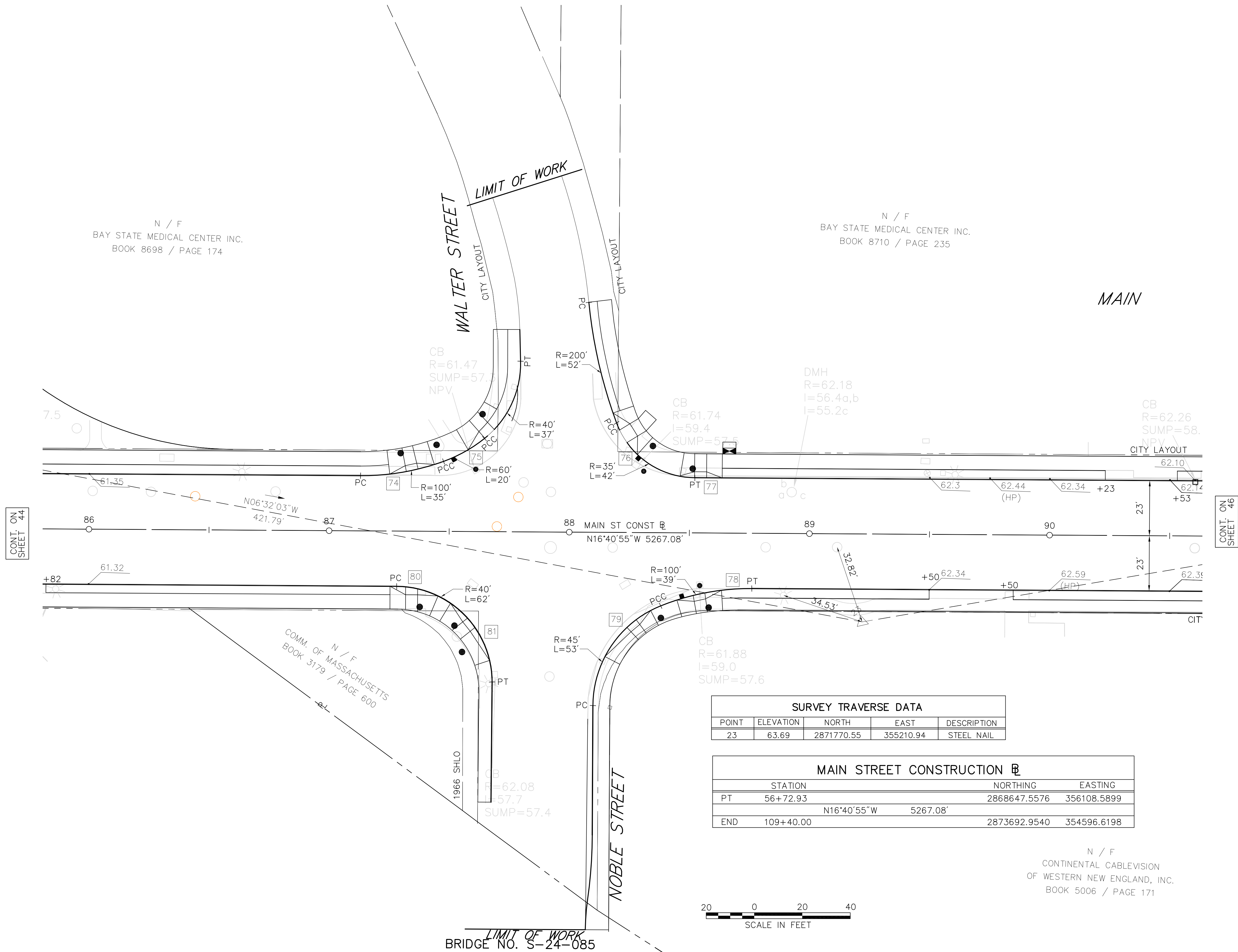
N / F
COMM. OF MASSACHUSETTS
NO REFERENCE



SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	45	145
PROJECT FILE NO. 605222			

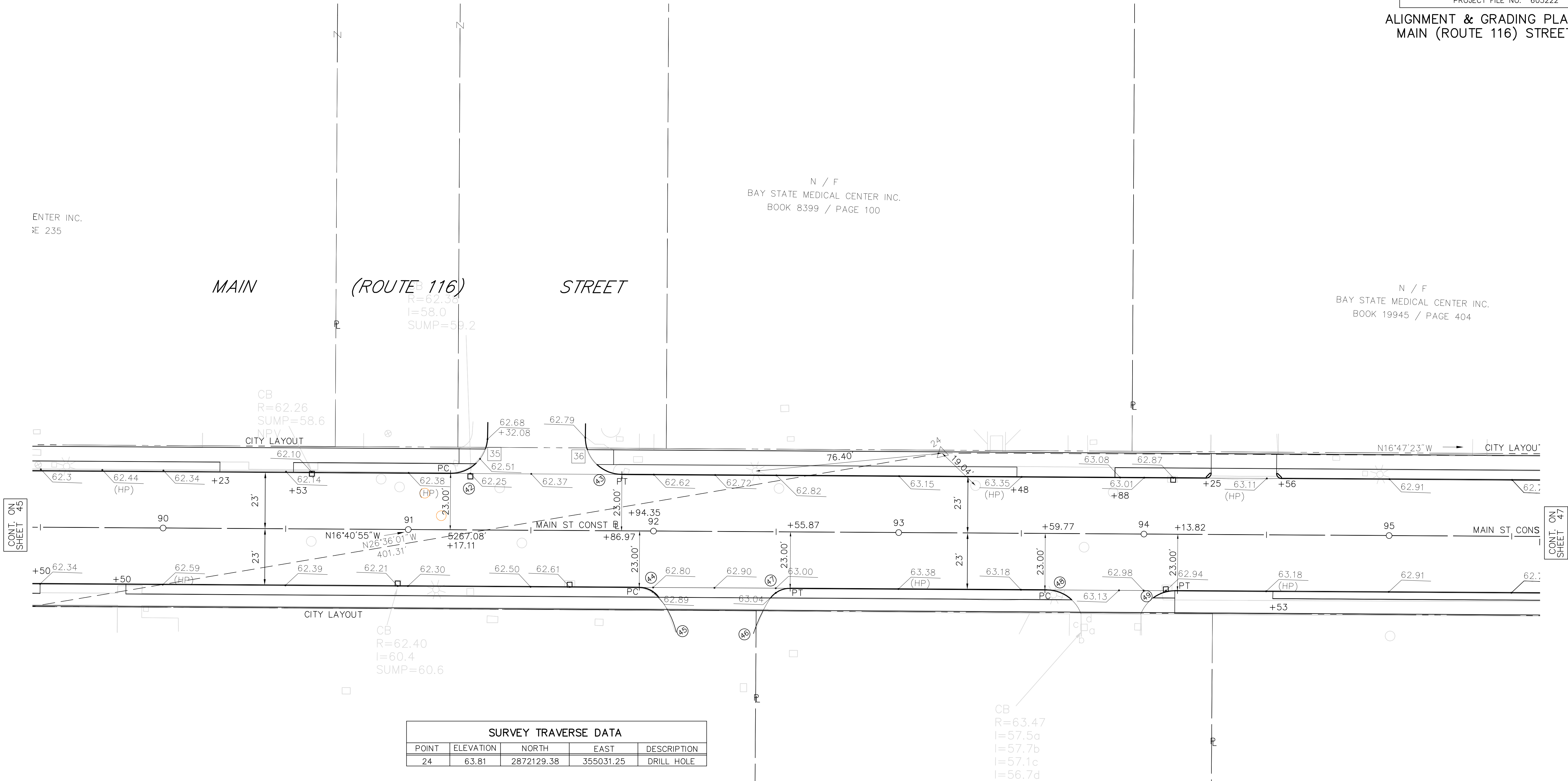
ALIGNMENT & GRADING PLANS
MAIN (ROUTE 116) STREET



SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	46	145
PROJECT FILE NO. 605222			

ALIGNMENT & GRADING PLANS
MAIN (ROUTE 116) STREET

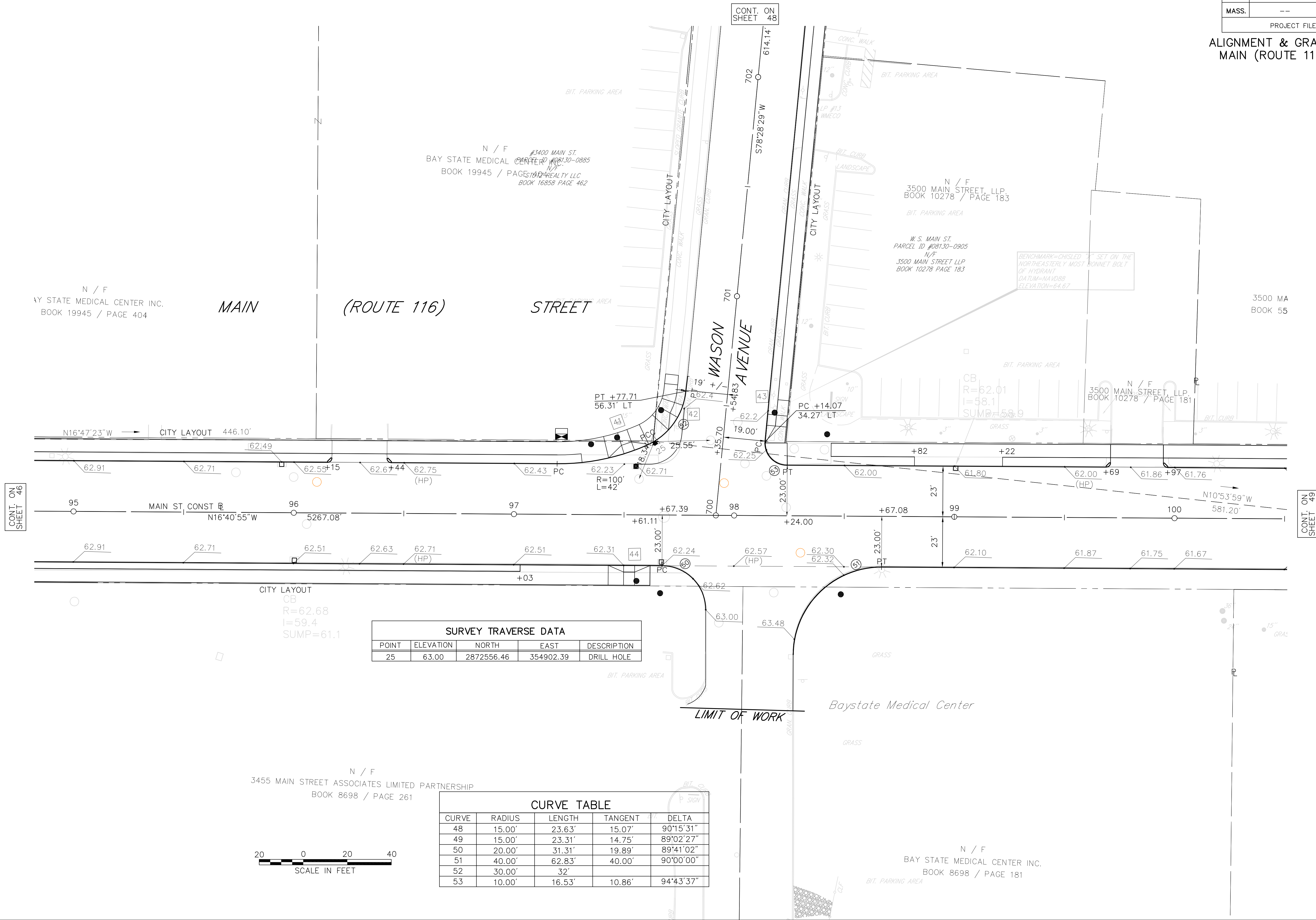


SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	47	145

PROJECT FILE NO. 605222

ALIGNMENT & GRADING PLANS
MAIN (ROUTE 116) STREET



SURVEY TRAVERSE DATA				
POINT	ELEVATION	NORTH	EAST	DESCRIPTION
25	63.00	2872556.46	354902.39	DRILL HOLE

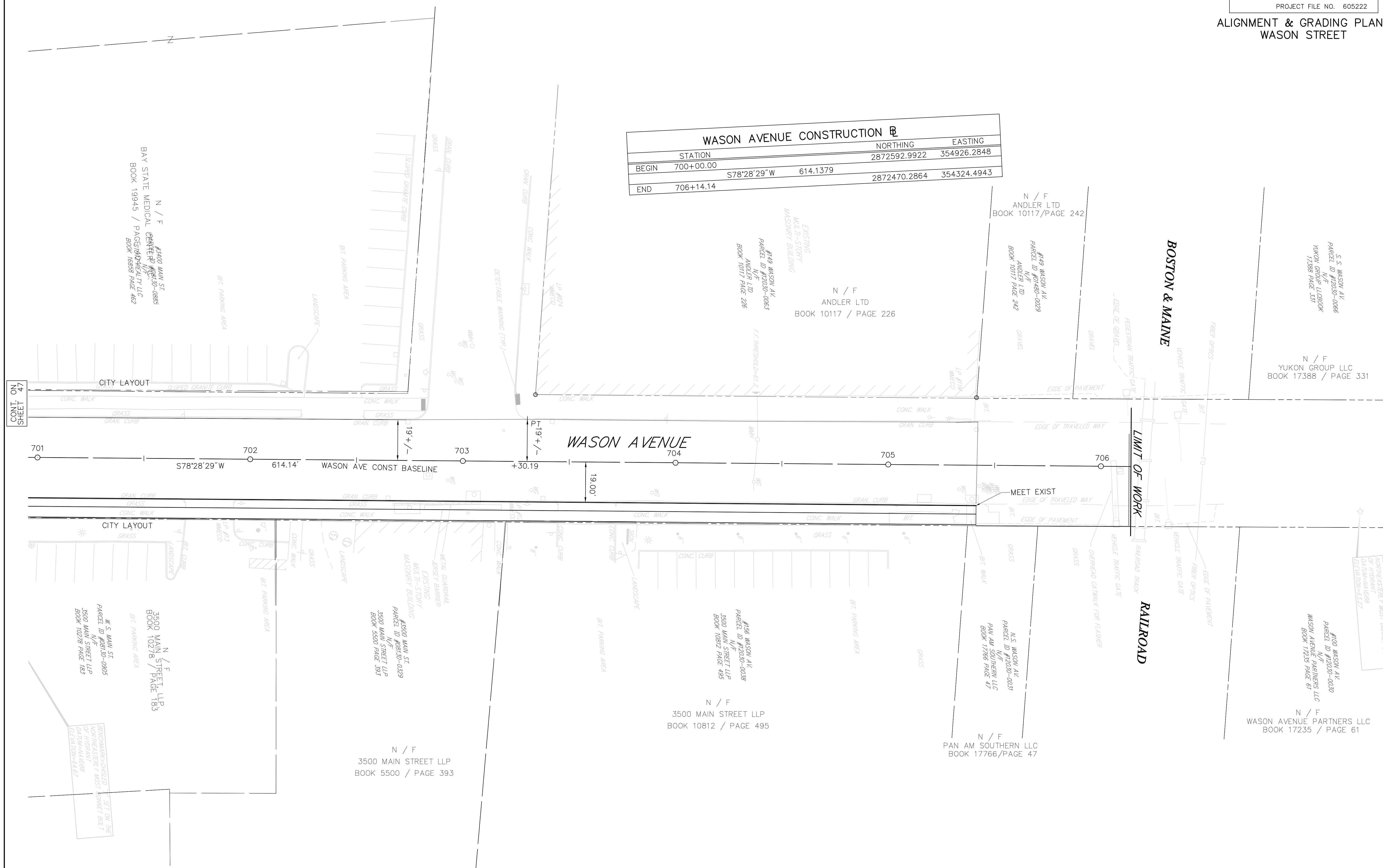
CURVE TABLE				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
48	15.00'	23.63'	15.07'	90°15'31"
49	15.00'	23.31'	14.75'	89°02'27"
50	20.00'	31.31'	19.89'	89°41'02"
51	40.00'	62.83'	40.00'	90°00'00"
52	30.00'	32'		
53	10.00'	16.53'	10.86'	94°43'37"

N / F
3455 MAIN STREET ASSOCIATES LIMITED PARTNERSHIP
BOOK 8698 / PAGE 261



STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	48	145
PROJECT FILE NO. 605222			

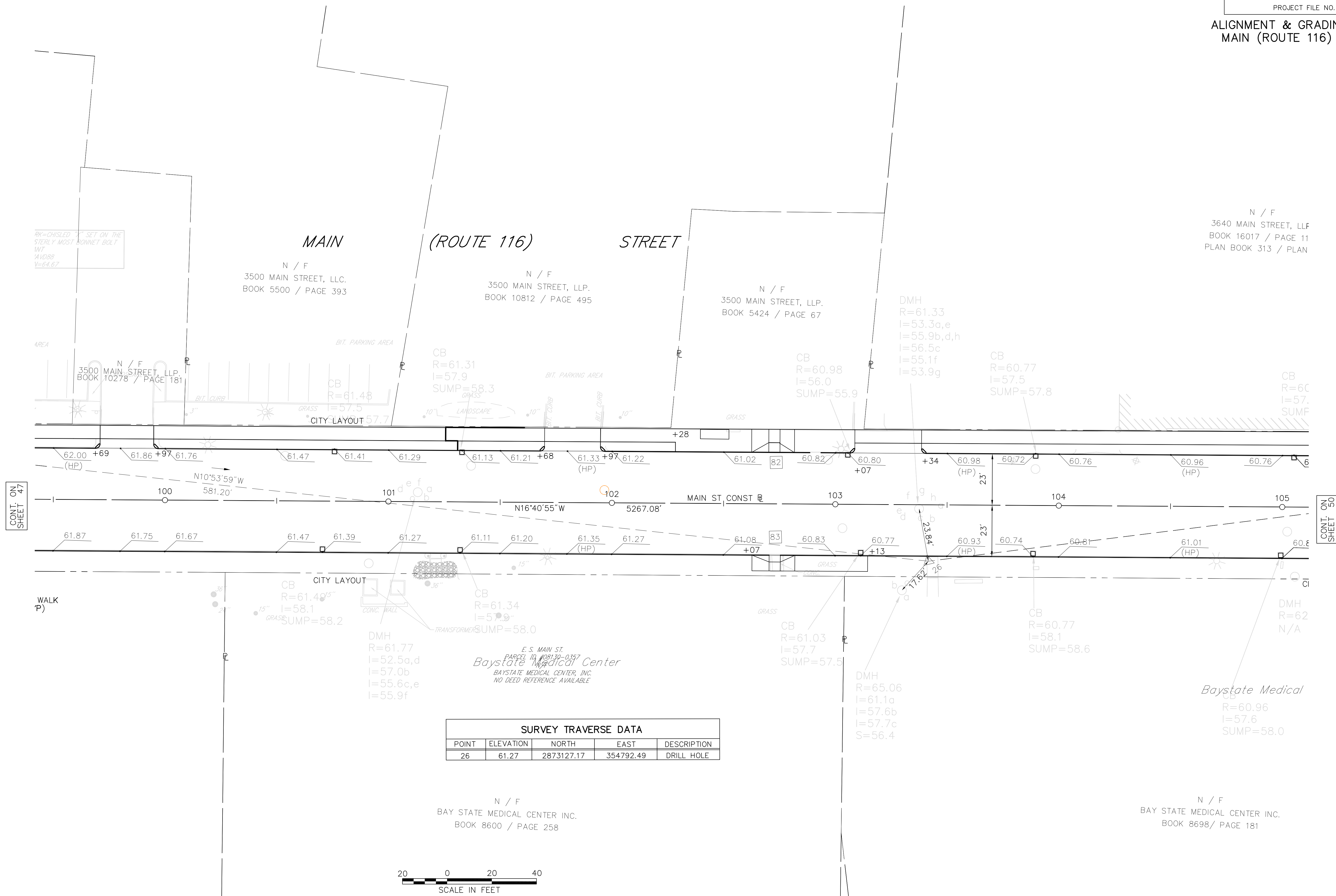
WASON AVENUE CONSTRUCTION			
STATION		NORTHING	EASTING
BEGIN	700+00.00	2872592.9922	354926.2848
S78°28'29"W		614.1379	
END	706+14.14	2872470.2864	354324.4943



SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	49	145
PROJECT FILE NO. 605222			

ALIGNMENT & GRADING PLANS
MAIN (ROUTE 116) STREET



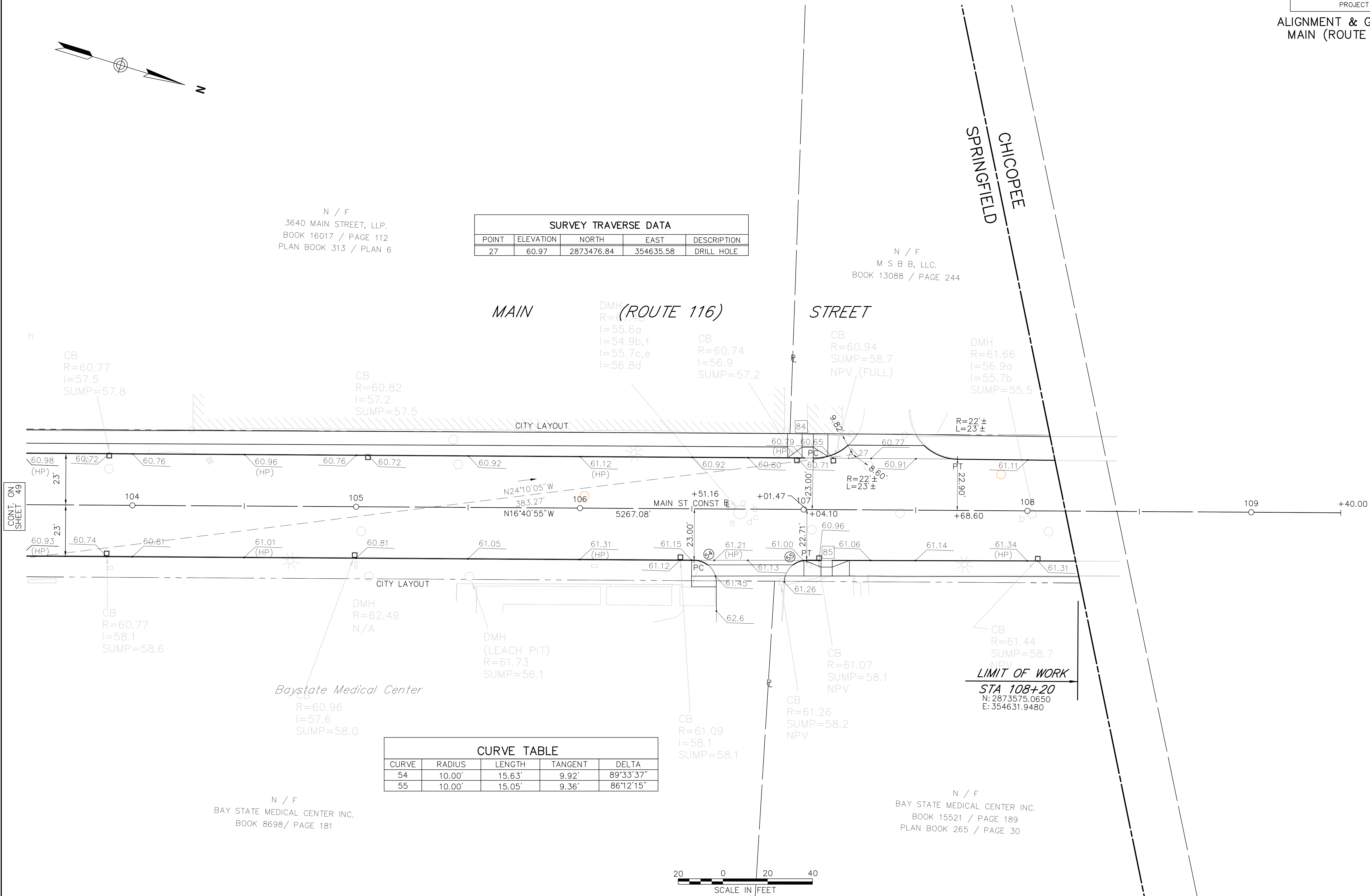
SURVEY TRAVERSE DATA				
POINT	ELEVATION	NORTH	EAST	DESCRIPTION
26	61.27	2873127.17	354792.49	DRILL HOLE

N / F
BAY STATE MEDICAL CENTER INC.
BOOK 8698/ PAGE 181

SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	50	145
PROJECT FILE NO. 605222			

ALIGNMENT & GRADING PLANS
MAIN (ROUTE 116) STREET



SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	51	145

PROJECT FILE NO. 605222

ALIGNMENT & GRADING PLANS

N / F
CURTIS UNIVERSAL JOINT CO. INC.
BOOK 10468 / PAGE 437

SURVEY TRAVERSE DATA				
POINT	ELEVATION	NORTH	EAST	DESCRIPTION
42	62.11	2868574.33	355364.73	STEEL NAIL
45	63.75	2868290.25	355465.43	PK NAIL

CURVE TABLE				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
59	30.00'	19'		

N / F
CURTIS UNIVERSAL JOINT CO. INC.
BOOK 10468 / PAGE 437

N / F
CROWN ATLANTIC CO. INC.
BOOK 10711 / PAGE 499

N / F
URTIS UNIVERSAL JOINT CO. INC.
BOOK 10468 / PAGE 437

BIRNIE AVENUE

BIRNIE AVENUE CONSTRUCTION			
	STATION	NORTHING	EASTING
BEGIN	600+00.00	2868055.2181	355601.0717
		N28°44'16"W	23.57'
PC	600+23.57	2868075.8827	355589.7404
		R=1800.00'	T=189.59'
		L=377.78'	Δ=12°01'31"
PT	604+01.35	2868423.6980	355444.0655
		N16°42'46"W	853.75'
PC	612+55.10	2869241.3890	355198.5485
		SUMP=58.4	

ARCH STREET CONSTRUCTION			
	STATION	NORTHING	EASTING
ΔPT	404+15.26	2868439.9617	355741.2918
		S67°18'04"W	288.14'
END	407+03.41	2868328.7714	355475.4673

N / F
COMM. OF MASS.
STATE HIGHWAY LAYOUT No.5592

I- 91 ABOVE



BRIDGE NO. S-24-088

ARCH STREET

CONT. ON
SHEET 38

CONT. ON
SHEET 52

SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	52	145

PROJECT FILE NO. 605222

ALIGNMENT & GRADING PLANS

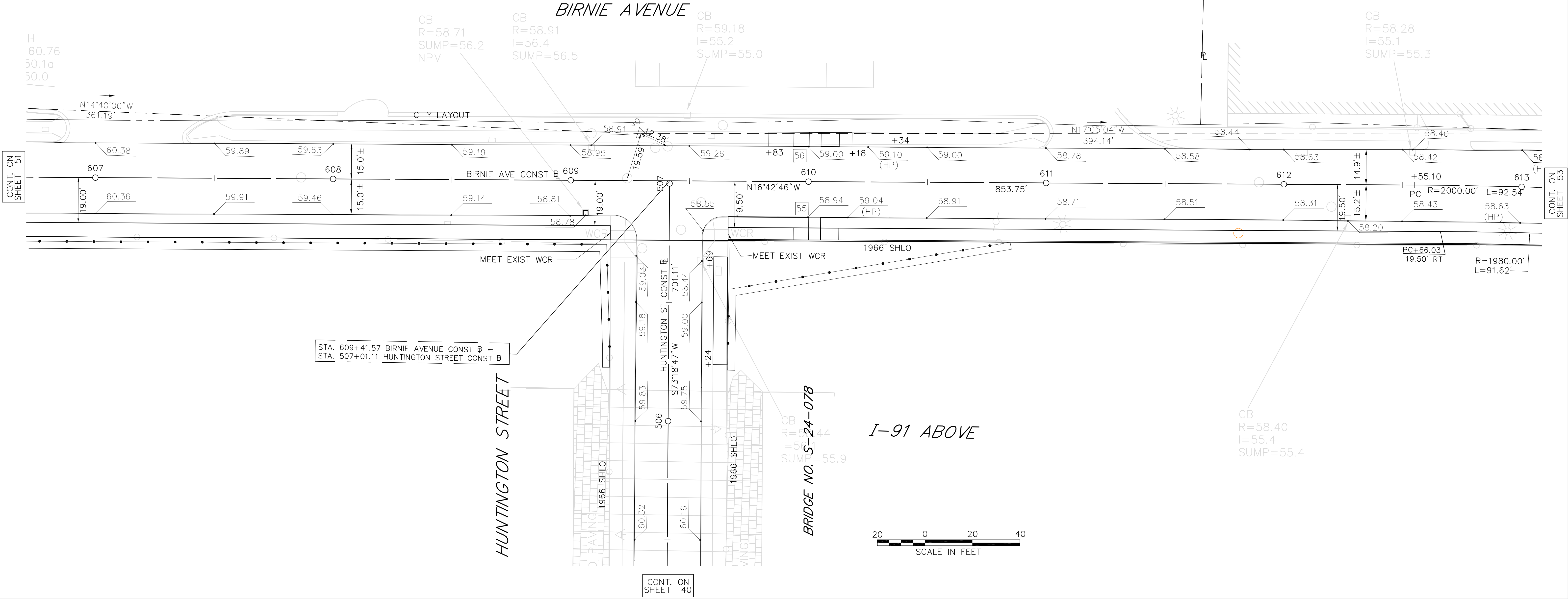
HUNTINGTON STREET CONSTRUCTION				
STATION	NORTHING		EASTING	
BEGIN	500+00.00		2869142.4185	355960.2934
		N73°18'47"E	701.11'	
END	507+01.11		2868941.1016	355288.7117

BIRNIE AVENUE CONSTRUCTION				
STATION	NORTHING		EASTING	
PT	604+01.35		2868423.6980	355444.0655
		N16°42'46"W	853.75'	
PC	612+55.10		2869241.3890	355198.5485
		R=2000.00'	T=46.28'	
		L=92.54'	Δ=02°39'04"	
PT	613+47.65		2869330.6059	355173.8956

N / F
COMMONWEALTH OF MASSACHUSETTS
BOOK 5580 / PAGE 1

SURVEY TRAVERSE DATA				
POINT	ELEVATION	NORTH	EAST	DESCRIPTION
40	59.57	2868923.76	355273.27	DRILL HOLE

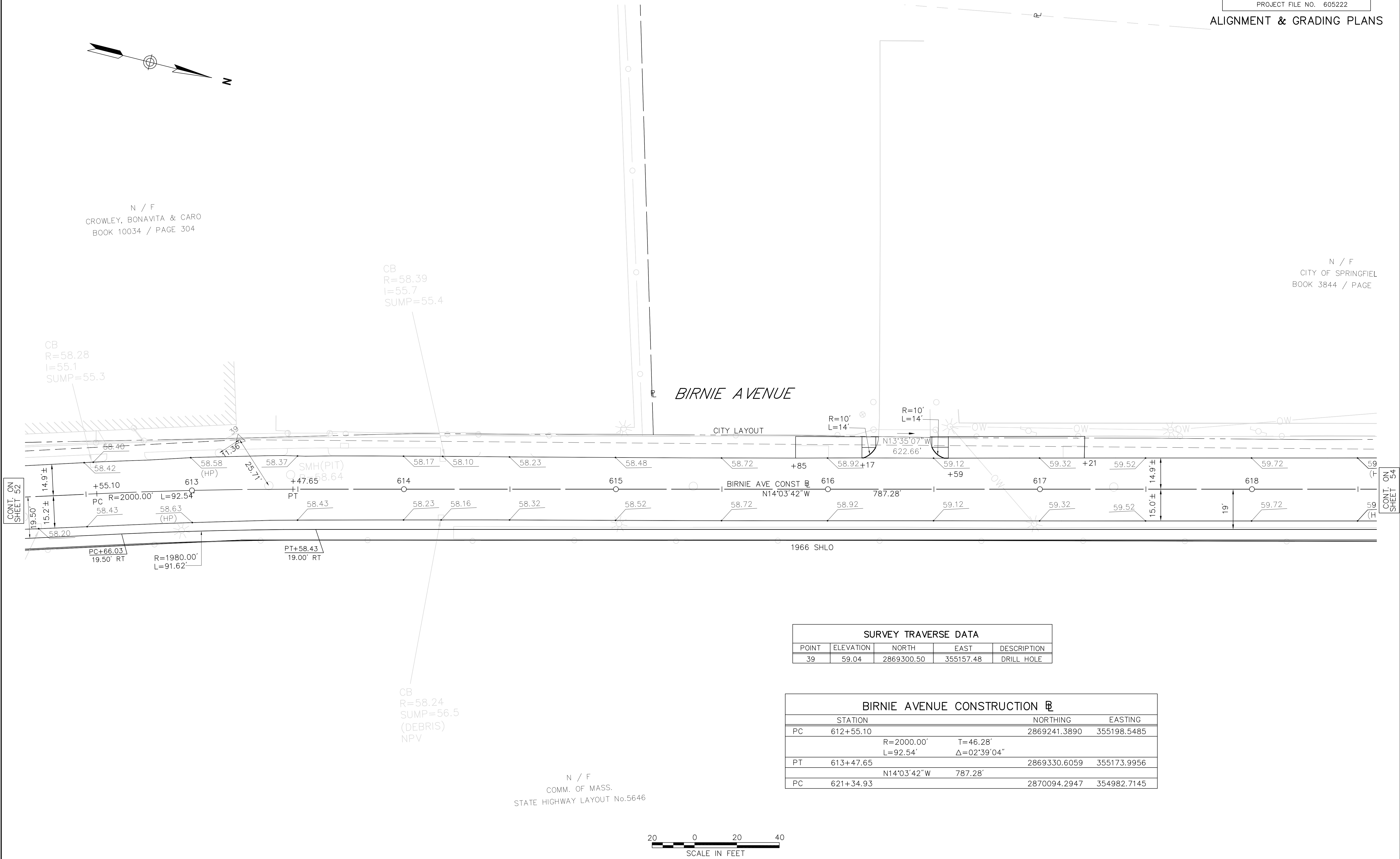
N / F
CROWLEY, BONAVITA & CAR
BOOK 10034 / PAGE 304



SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	53	145
PROJECT FILE NO. 605222			

ALIGNMENT & GRADING PLANS



SURVEY TRAVERSE DATA				
POINT	ELEVATION	NORTH	EAST	DESCRIPTION
39	59.04	2869300.50	355157.48	DRILL HOLE

BIRNIE AVENUE CONSTRUCTION			
	STATION	NORTHING	EASTING
PC	612+55.10	2869241.3890	355198.5485
	R=2000.00' L=92.54' T=46.28' Δ=02°39'04"		
PT	613+47.65	2869330.6059	355173.9956
	N14°03'42"W 787.28'		
PC	621+34.93	2870094.2947	354982.7145

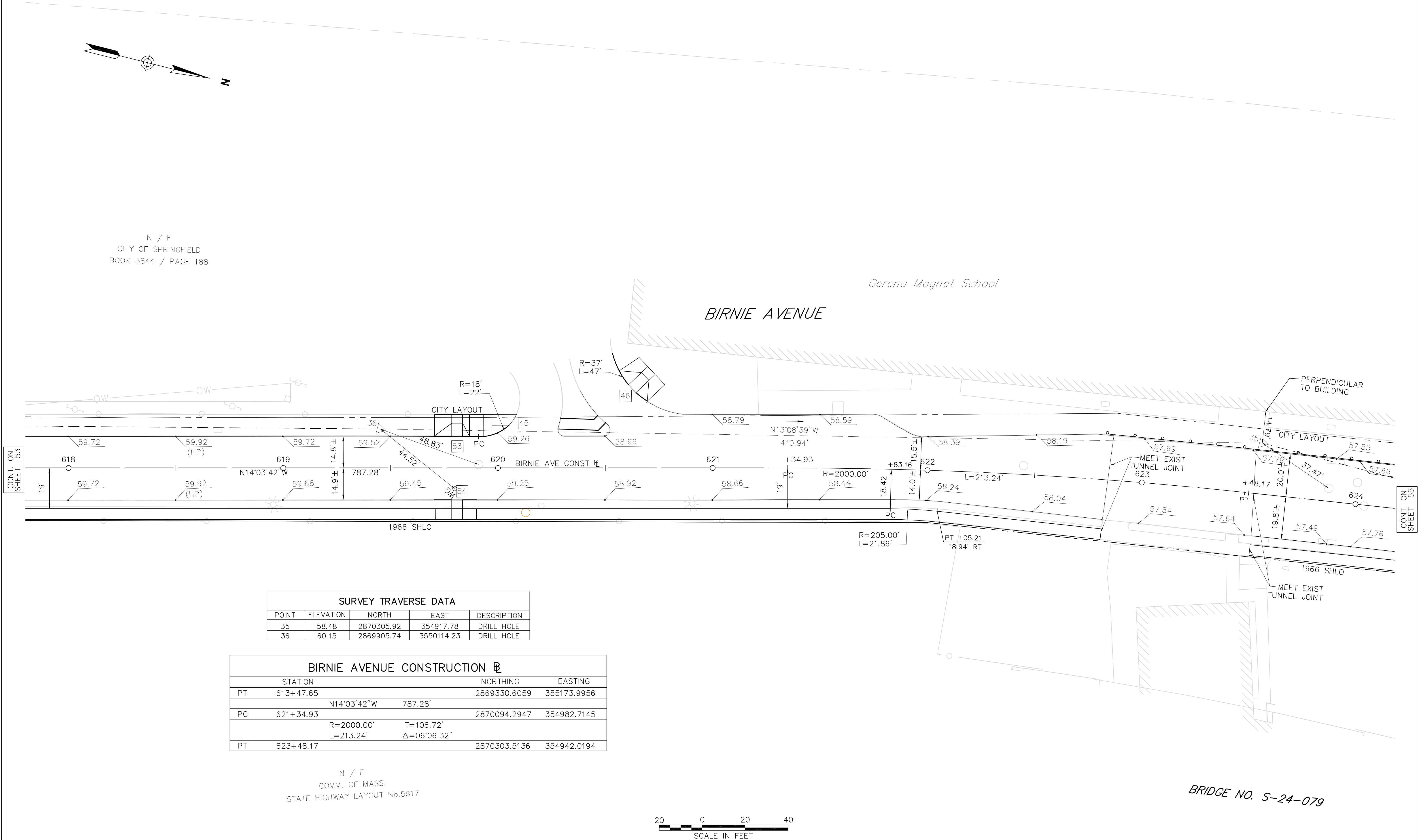
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COMM. OF MASS.
STATE HIGHWAY LAYOUT No.5646

SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	54	145

PROJECT FILE NO. 605222

ALIGNMENT & GRADING PLANS



SURVEY TRAVERSE DATA				
POINT	ELEVATION	NORTH	EAST	DESCRIPTION
35	58.48	2870305.92	354917.78	DRILL HOLE
36	60.15	2869905.74	3550114.23	DRILL HOLE

BIRNIE AVENUE CONSTRUCTION				
	STATION	NORTHING		EASTING
PT	613+47.65	2869330.6059		355173.9956
		N14°03'42"W	787.28'	
PC	621+34.93	2870094.2947		354982.7145
		R=2000.00'	T=106.72'	
		L=213.24'	Δ=06°06'32"	
PT	623+48.17	2870303.5136		354942.0194

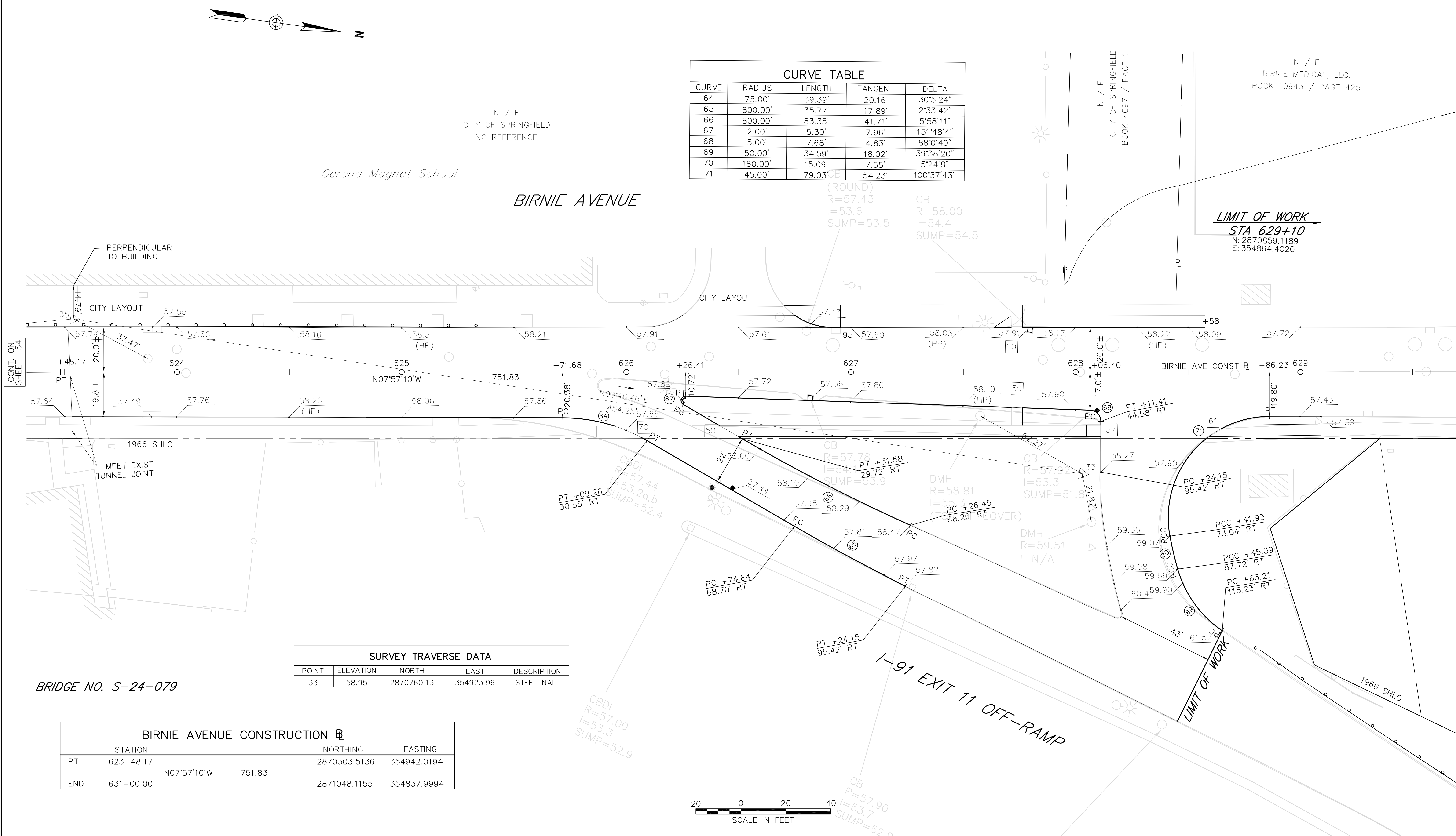
N / F
COMM. OF MASS.
STATE HIGHWAY LAYOUT No.5617

BRIDGE NO. S-24-079

SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	55	145
PROJECT FILE NO. 605222			

ALIGNMENT & GRADING PLANS



CURVE TABLE				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
64	75.00'	39.39'	20.16'	30°5'24"
65	800.00'	35.77'	17.89'	2°33'42"
66	800.00'	83.35'	41.71'	5°58'11"
67	2.00'	5.30'	7.96'	151°48'4"
68	5.00'	7.68'	4.83'	88°0'40"
69	50.00'	34.59'	18.02'	39°38'20"
70	160.00'	15.09'	7.55'	5°24'8"
71	45.00'	79.03'	54.23'	100°37'43"

N / F
CITY OF SPRINGFIELD
NO REFERENCE

N / F
CITY OF SPRINGFIELD
BOOK 4097 / PAGE 1

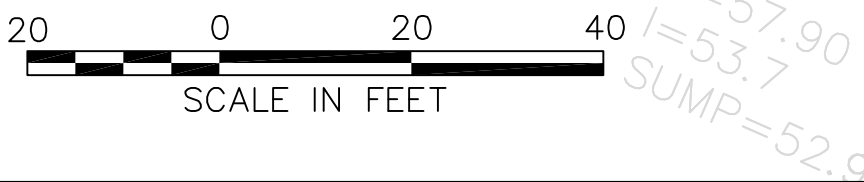
N / F
BIRNIE MEDICAL, LLC.
BOOK 10943 / PAGE 425

LIMIT OF WORK
STA 629+10
N: 2870859.1189
E: 354864.4020

SURVEY TRAVERSE DATA				
POINT	ELEVATION	NORTH	EAST	DESCRIPTION
33	58.95	2870760.13	354923.96	STEEL NAIL

BRIDGE NO. S-24-079

BIRNIE AVENUE CONSTRUCTION				
	STATION	NORTHING	EASTING	
PT	623+48.17	2870303.5136	354942.0194	
	N07°57'10"W	751.83		
END	631+00.00	2871048.1155	354837.9994	



STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	56	145
PROJECT FILE NO. 605222			

CONSTRUCTION NOTES:

- CONT. ON
-
- SHEET 57



STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	57	145
PROJECT FILE NO. 605222			

N / F
PENTECOSTAL CHRISTIAN CHURCH.
BOOK 4189 / PAGE 166

1. ALL PAVEMENT MARKINGS SHALL BE REFLECTORIZED THERMOPLASTIC.
2. WHERE EXISTING PAVEMENT MARKINGS ARE DIFFERENT THAN PROPOSED MARKINGS SHOWN, REMOVE BY AN APPROVED METHOD.
3. ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL BE R&S UNLESS OTHERWISE INDICATED.
4. CROSSWALKS SHALL BE CONSTRUCTED WITH A TEXTURIZED DECORATIVE PAVEMENT TREATMENT.

N / F
BRIGHTWOOD DEVELOPMENT CORP.
BOOK 5792 / PAGE 393

N / F
MIGUEL PEDROSA
BOOK 10607 / PAGE 360

N / F
748 DWIGHT STREET CORP.
BOOK 7966 / PAGE 10

N / F
NORTH END HOUSING INITIATIVE INC
BOOK 16611 / PAGE 588
STREET

N / F
CITY OF SPRINGFIELD
BOOK 20184 / PAGE 198

ARCH STREET

(ROUTE 116)

MAIN

CONT. ON
SHEET 56

CONT. ON
SHEET 58

F
Z
PAGE 527

N / F
BOYLE & FIELDS
BOOK 14426 / PAGE 399

N / F
ISLA ASSOC.
BOOK 14644 / 295

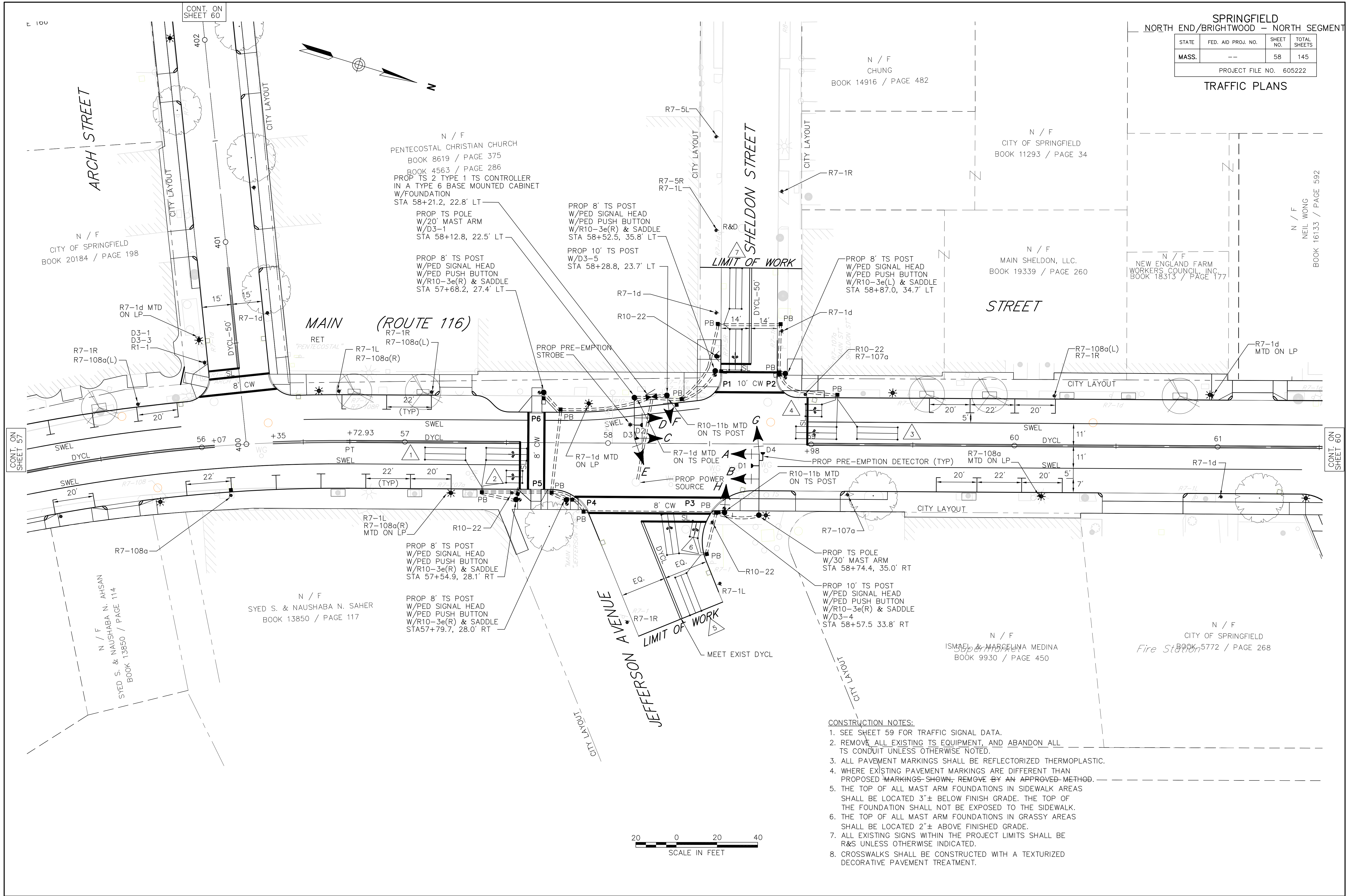
N / F
HARVEY ASSOC.
BOOK 4451 / 205

N / F
CUONG H. NGUYEN
BOOK 7775 / PAGE 581
BOOK 6592 / PAGE 404

SYED S. & NAUSHABA N. AHSAN
BOOK 13850 / PAGE 114

SYED S. & NAUSHABA N. SAHEI
BOOK 13850 / PAGE 117

BANCROFT STREET



SPRINGFIELD
NORTH END/BRIGHTWOOD – NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	59	145
PROJECT FILE NO. 605222			

TRAFFIC PLANS

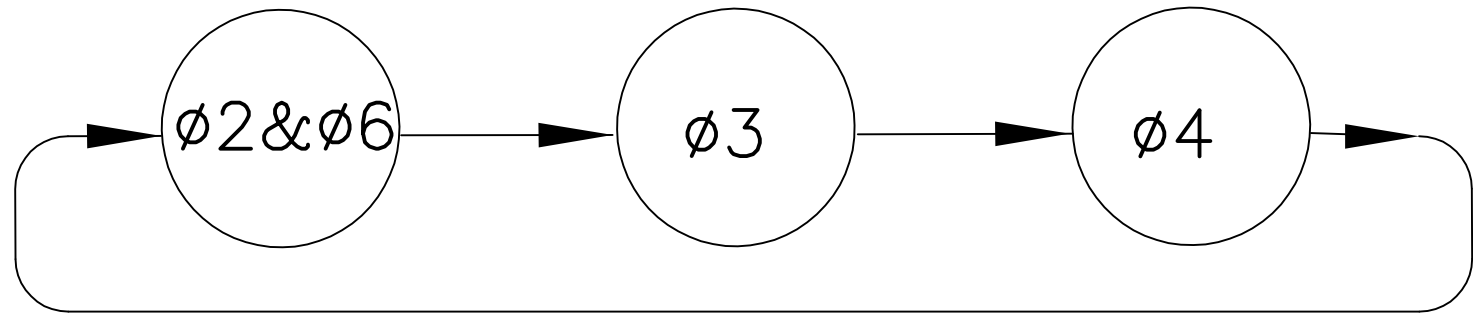
SEQUENCE AND TIMING															FLASHING OPERATION
APPROACH	DIRECTION	HOUSING	1	2	3	4	5	6	7	8	9	10	11	12	
MINIMUM INTERVAL			10			6			6			10			
VEHICLE EXTENSION			3			2			2			3			
MAXIMUM 1			25			15			10			25			
MAXIMUM 2			25			20			10			25			
YELLOW CLEARANCE				3			3			3			3		
RED CLEARANCE					4			3			3			4	
PEDESTRIAN INTERVAL			7/12						7/7			7/12			
MAIN STREET	NB	A,B	G	Y	R	R	R	R	R	R	R	R	R	R	FY
MAIN STREET	SB	C,D	R	R	R	R	R	R	R	R	R	G	Y	R	FY
JEFFERSON AVENUE	WB	E	R	R	R	←G-G	Y	R	R	R	R	R	R	R	FR
JEFFERSON AVENUE	WB	F	R	R	R	G	Y	R	R	R	R	R	R	R	FR
SHELDON STREET	EB	G	R	R	R	R	R	R	←G-G	Y	R	R	R	R	FR
SHELDON STREET	EB	H	R	R	R	R	R	R	G	Y	R	R	R	R	FR
PEDESTRIAN X-ING	NB-SB	P1-P2	DW	DW	DW	DW	DW	DW	DW	DW	DW	**	DW	DW	OUT
PEDESTRIAN X-ING	NB-SB	P3-P4	**	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	OUT
PEDESTRIAN X-ING	WB-EB	P5-P6	DW	DW	DW	DW	DW	DW	**	DW	DW	DW	DW	DW	OUT
DETECTOR			NON-LOCK			NON-LOCK			NON-LOCK			NON-LOCK			
RECALL			SOFT			OFF			OFF			SOFT			
			ø2			ø3			ø4			ø6			
															ø1, ø5, ø7&ø8 NOT USED

- NOTES:
- AUTOMATIC FLASHING OPERATION PER M.U.T.C.D. SECTION 4D.12.
 - ** NORMALL DW, UPON PEDESTRIAN PUSH BUTTON ACTUATION W/FDW
 - PERM = PERMISSIVE
 - MAXIMUM 1 = NORMAL OPERATION
 - MAXIMUM 2 = MON-FRI; 1330-1800
 - STOP AND GO OPERATION FOR 24 HOURS PER DAY. FLASHING OPERATION FOR EMERGENCY ONLY.
 - DURING PEDESTRIAN INTERVAL, FDW THROUGH YELLOW OPERATION SHALL NOT BE IN EFFECT.

SEQUENCE & TIMING NOTES:

- IF THE ASSIGNED RIGHT OF WAY FOR ANY TRAFFIC MOVEMENT IS TO REMAIN IN EFFECT DURING THE NEXT CALLED PHASE, THE SIGNAL INDICATIONS FOR THAT TRAFFIC MOVEMENT WILL NOT CHANGE DURING THE CLEARANCE INTERVAL.
- THE RIGHT OF WAY MAY BE ASSIGNED TO ANY PHASE OR ANY COMBINATION OF NON-CONFLICTING PHASES.
- IF CALLS EXIST ON ALL PHASES, THE ASSIGNMENT OF RIGHT OF WAY SHALL BE IN ACCORDANCE WITH THE PREFERENTIAL PHASE SEQUENCE.
- IF THE ASSIGNED RIGHT OF WAY FOR ANY TRAFFIC MOVEMENT IS TO CHANGE DURING THE NEXT CALLED PHASE, THE SIGNAL INDICATION FOR THAT MOVEMENT WILL DISPLAY THE APPROPRIATE CLEARANCE INTERVALS.

PREFERENTIAL PHASE SEQUENCE



EMERGENCY VEHICLE PRE-EMPTION OPERATION.

- EMERGENCY VEHICLE PRE-EMPTION SIGNALS SHALL BE OPTICALLY TRANSMITTED BY OPTICAL EMITTERS MOUNTED IN EMERGENCY VEHICLES AND RECEIVED BY OPTICAL DETECTORS LOCATED AT EACH INTERSECTION.
- PRE-EMPTION SIGNALS SHALL BE SERVICED ON A PRIORITY BASIS WITH DETECTORS D1, D2, D3 OR D4 ASSIGNED DESCENDING PRIORITIES AS FOLLOWS: (D1 HIGHEST AND D4 LOWEST)
- IN RESPONSE TO A PRE-EMPTION SIGNAL RECEIVED AT AN INTERSECTION BY OPTICAL DETECTOR D1 (OR D2, D3, D4) THE CONTROLLER SHALL HOLD OR ADVANCE TO AND HOLD IN EMERGENCY VEHICLE PRE-EMPTION PHASE #1 (OR #2, #3, #4) GREEN FOR A MINIMUM OF TEN (10) SECONDS OR UNTIL PRE-EMPTION SIGNAL CEASES. THE CONTROLLER SHALL THEN TIME PRE-EMPTION PHASE CLEARANCES FOR THE ASSOCIATED PHASE(S) AS SHOWN IN THE SEQUENCE AND TIMING CHART AND SERVICE SUBSEQUENT EMERGENCY VEHICLE PRE-EMPTION PHASES AS NECESSARY
- MINIMUM GREEN AND NORMAL VEHICLE AND PEDESTRIAN CLEARANCE TIMES SHALL BE PROVIDED ON PHASES THAT ARE TO BE TERMINATED BY PRE-EMPTION DEMAND.
- PRE-EMPTION STROBE SHALL BE ILLUMINATED WHENEVER ANY EMERGENCY VEHICLE PRE-EMPTION GREEN IS ON.
- EMERGENCY VEHICLE PRE-EMPTION SHALL OVERRIDE TRANSIT VEHICLE PRIORITY.

PRE-EMPTION
PHASING & PRIORITY

DETECTOR & PRIORITY	PRE-EMPT PHASE ASSIGNMENT	PRE-EMPT MOVEMENT & PHASE ASSIGNMENT	LOW PRIORITY MOVEMENT & PHASE ASSIGNMENT
D1	1	ø2	ø2&ø6
D2	2	ø6	ø2&ø6
D3	3	ø3	
D4	4	ø4	

TRANSIT VEHICLE PRIORITY OPERATION.

- TRANSIT VEHICLE PRIORITY CALLS SHALL BE OPTICALLY TRANSMITTED BY OPTICAL EMITTERS MOUNTED IN TRANSIT VEHICLES AND RECEIVED BY OPTICAL DETECTORS LOCATED AT EACH INTERSECTION.
- TRANSIT VEHICLE PRIORITY CALL SHALL BE SERVICED ON A PRE-DEFINED BASIS FOR DETECTORS D1 OR D2 WITH D1 HIGHEST AND D2 LOWEST.
- IN RESPONSE TO A PRIORITY CALL RECEIVED AT AN INTERSECTION BY OPTICAL DETECTOR D1 OR D2 THE CONTROLLER SHALL INITIATE TRANSIT PRIORITY BASED ON THE ALGORITHM DESCRIBED IN THE CONTROLLER SPECIFICATIONS.
- MINIMUM GREEN AND NORMAL VEHICLE CLEARANCE SHALL BE PROVIDED ON PHASES THAT ARE TO BE TERMINATED BY PRIORITY DEMAND.

SIGNAL HEAD DATA		
A,B,C,D,F,H	E,G	P1-P6
ALL 12" LENS		

- NOTES:
- ALL SIGNAL HEADS SHALL BE RIGID MOUNTED.
 - ALL SIGNAL HEADS SHALL BE EQUIPPED WITH 5"± LOUVERED BACKPLATES. ALL BACKPLATES SHALL CONTAIN A 2" WIDE YELLOW REFLECTIVE BORDER.
 - ALL SIGNAL HEADS SHALL BE EQUIPPED WITH TUNNEL VISORS.
 - ALL SIGNAL DISPLAYS SHALL BE EQUIPPED W/L.E.D. MODULES.

DETECTOR DATA						
DETECTOR NO.	NO. SECTION/ SIZE	NO. OF TURNS	OPERATIONS	DELAY /EXT	CALL PHASE	LOOP CONNECTION
1	2-6'X20' QUADRUPOLE	2-4-2	PRESENCE	0	ø2	SERIES
2	1-6'X8' QUADRUPOLE	2-4-2	PRESENCE	0	ø2	SINGLE
3	2-6'X20' QUADRUPOLE	2-4-2	PRESENCE	0	ø6	SERIES
4	1-6'X8' QUADRUPOLE	2-4-2	PRESENCE	0	ø6	SINGLE
5	2-6'X20' QUADRUPOLE	2-4-2	PRESENCE	0	ø3	SERIES
6	1-4'X8' QUADRUPOLE	2-4-2	PRESENCE	0	ø3	SINGLE
7	2-6'X20' QUADRUPOLE	2-4-2	PRESENCE	0	ø4	SERIES

- NOTES:
- DELAY AND EXTENSION TIMINGS SHALL BE PROGRAMMED IN THE CONTROLLER ONLY
 - WIRE LOOP DETECTORS SHALL BE INSTALLED IN FINAL PAVED SURFACE.

ITEM 816.01
TRAFFIC SIGNAL RECONSTRUCTION
MAIN STREET AT JEFFERSON AVENUE/SHELDON STREET
LIST OF MAJOR ITEMS REQUIRED

QUANTITY	DESCRIPTION
1	8ø TS 2 TYPE 1 CONTROLLER IN A TYPE 6 BASE MOUNTED CABINET INCL. FOUNDATION
1	TS 20' MAST ARM TYPE 2, STEEL, INCL. FOUNDATION
1	TS 30' MAST ARM TYPE 2, STEEL, INCL. FOUNDATION
5	TS POST 8' STANDARD INCL. FOUNDATION
2	TS POST 10' STANDARD INCL. FOUNDATION
6	SIGNAL HEAD, 3-SECTION, 12" LENSES
2	SIGNAL HEAD, 4-SECTION, 12" LENSES
6	PEDESTRIAN SIGNAL HEAD W/COUNTDOWN TIMER
5	PEDESTRIAN PUSH BUTTON W/R10-3e(R) AND SIGN SADDLE
1	PEDESTRIAN PUSH BUTTON W/R10-3e(L) AND SIGN SADDLE
11	PULL BOX-12"x12"
4	TYPE C, 2-CHANNEL CARD RACK LOOP DETECTOR AMPLIFIER
11	WIRE LOOP DETECTOR
4	EMERGENCY PRE-EMPTION OPTICAL DETECTORS & DETECTOR CABLE
1	EMERGENCY PRE-EMPTION 4 CHANNEL PHASE SELECTOR
1	EMERGENCY PRE-EMPTION SYSTEM CHASSIS
1	EMERGENCY PRE-EMPTION STROBE (WHITE LENS)
1	SERVICE CONNECTION (UNDERGROUND)

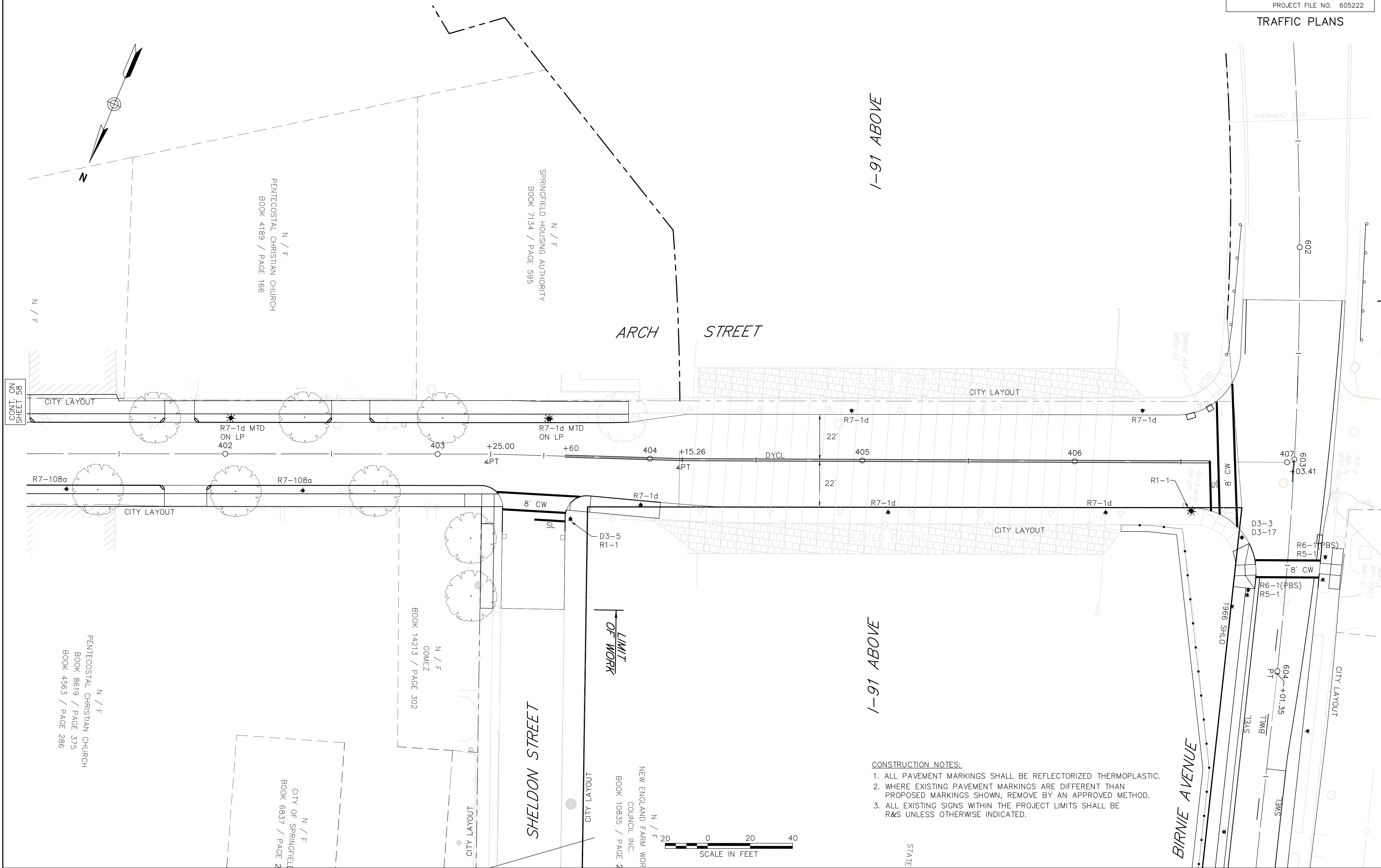
PUS NECESSARY DUCT, CABLE, LABOR, MISCELLANEOUS MATERIAL AND EQUIPMENT TO COMPLETE THE INSTALLATION AND PROVIDE AN OPERATING TRAFFIC CONTROL SIGNAL.

1-91 ABOVE

1-91 ABOVE

1. ALL PAVEMENT MARKINGS SHALL BE REFLECTORIZED THERMOPLASTIC.
2. WHERE EXISTING PAVEMENT MARKINGS ARE DIFFERENT THAN PROPOSED MARKINGS SHOWN, REMOVE BY AN APPROVED METHOD.
3. ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL BE R&S UNLESS OTHERWISE INDICATED.

\\vhb\proj\Worcester\09790.00\cad\te\Planset\Phase 2\09790TSIG.dwg



STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	62	145
PROJECT FILE NO. 605222			

1-91 ABOVE

1-91 ABOVE

-
- A scale bar labeled "SCALE IN FEET" with markings at 20, 0, 20, and 40. The bar is divided into segments, with alternating black and white segments between the 20 and 0 marks, and between the 0 and 20 marks.

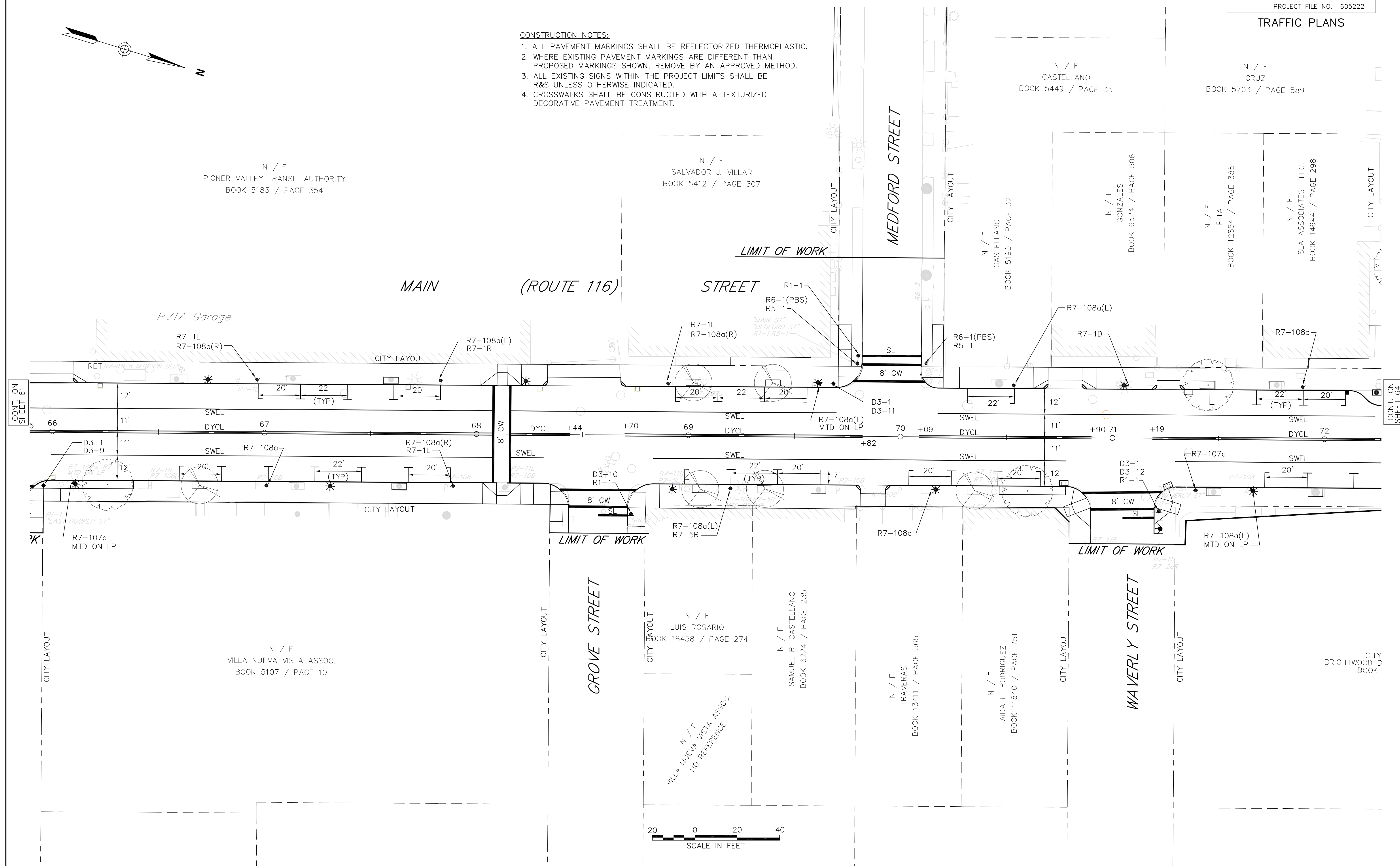


CONT. ON
SHEET 77

TRAFFIC PLANS

CONSTRUCTION NOTES:

1. ALL PAVEMENT MARKINGS SHALL BE REFLECTORIZED THERMOPLASTIC
2. WHERE EXISTING PAVEMENT MARKINGS ARE DIFFERENT THAN PROPOSED MARKINGS SHOWN, REMOVE BY AN APPROVED METHOD.
3. ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL BE R&S UNLESS OTHERWISE INDICATED.
4. CROSSWALKS SHALL BE CONSTRUCTED WITH A TEXTURIZED DECORATIVE PAVEMENT TREATMENT.

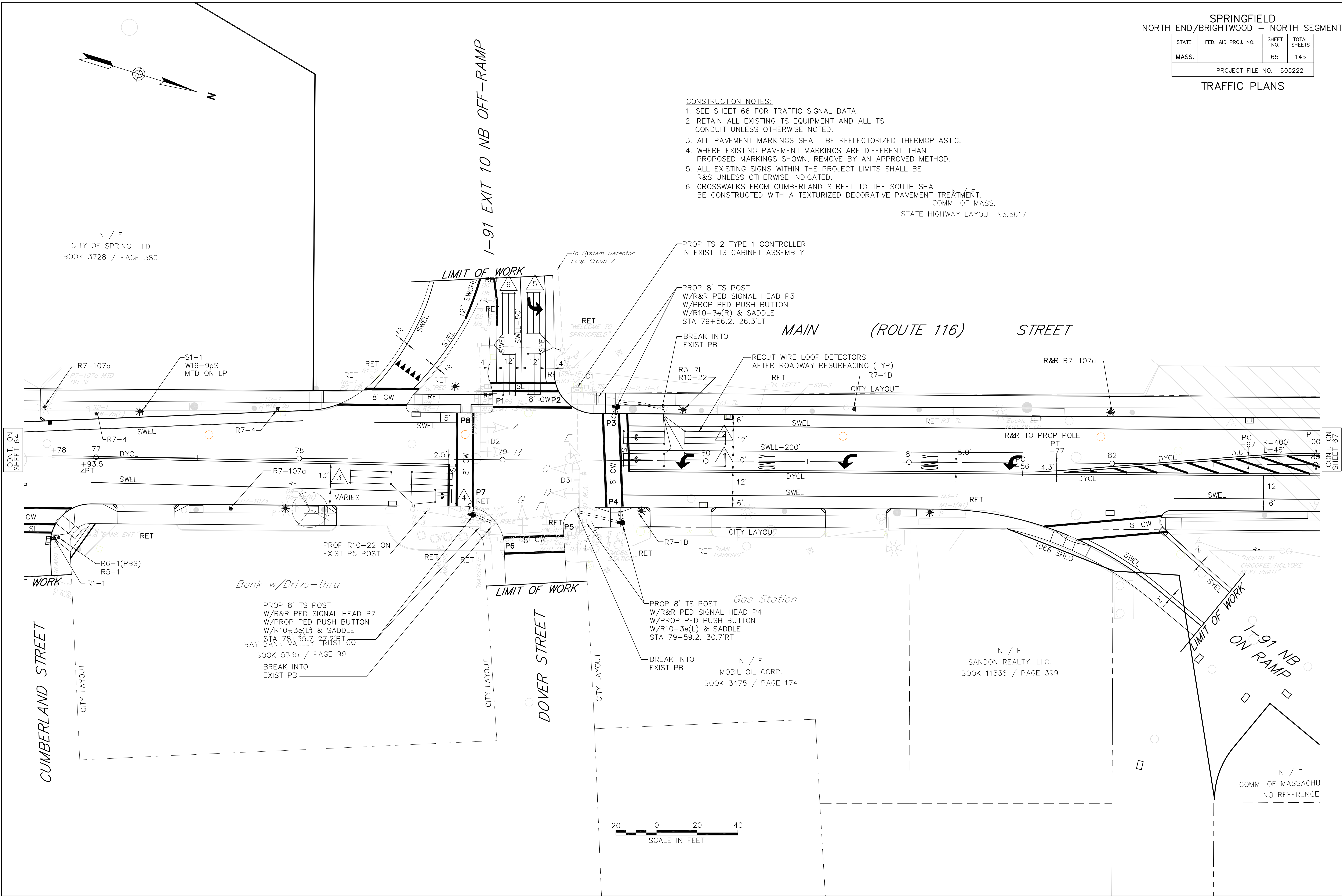


SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	65	145
PROJECT FILE NO. 605222			

TRAFFIC PLANS

- CONSTRUCTION NOTES:
1. SEE SHEET 66 FOR TRAFFIC SIGNAL DATA.
 2. RETAIN ALL EXISTING TS EQUIPMENT AND ALL TS CONDUIT UNLESS OTHERWISE NOTED.
 3. ALL PAVEMENT MARKINGS SHALL BE REFLECTORIZED THERMOPLASTIC.
 4. WHERE EXISTING PAVEMENT MARKINGS ARE DIFFERENT THAN PROPOSED MARKINGS SHOWN, REMOVE BY AN APPROVED METHOD.
 5. ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL BE R&S UNLESS OTHERWISE INDICATED.
 6. CROSSWALKS FROM CUMBERLAND STREET TO THE SOUTH SHALL BE CONSTRUCTED WITH A TEXTURIZED DECORATIVE PAVEMENT TREATMENT.
- STATE HIGHWAY LAYOUT No.5617

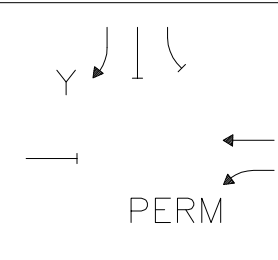
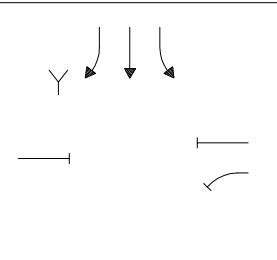
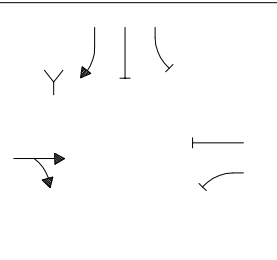
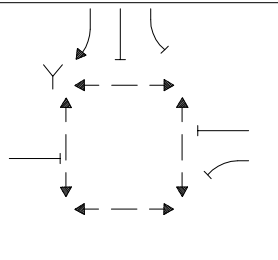


SPRINGFIELD
NORTH END/BRIGHTWOOD – NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	66	145
PROJECT FILE NO. 605222			

TRAFFIC PLANS

EXISTING /PROPOSED SEQUENCE AND TIMING															
APPROACH	DIRECTION	HOUSING	1	2	3	4	5	6	7	8	9	10	11	12	FLASHING OPERATION
MINIMUM INTERVAL			10			10			6						
VEHICLE EXTENSION			2			2			2						
MAXIMUM 1			50			50			40						
MAXIMUM 2			50			50			40						
YELLOW CLEARANCE				3			3			3			3		
RED CLEARANCE					2			2			2			1	
PEDESTRIAN INTERVAL												7	10	13	
I-91 EXIT 10 RAMP	EB	E,F	R	R	R	G	Y	R	R	R	R	R	R	R	FR
I-91 EXIT 10 RAMP	EB	G	R	R	R	G	Y	R	R	R	R	R	R	R	FR
MAIN ST	NB	C,D	R	R	R	R	R	R	G	Y	R	R	R	R	FY
MAIN ST	SB	A,B	G	Y	R	R	R	R	R	R	R	R	R	R	FY
PEDESTRIAN X-ING		P1-P8	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	OUT

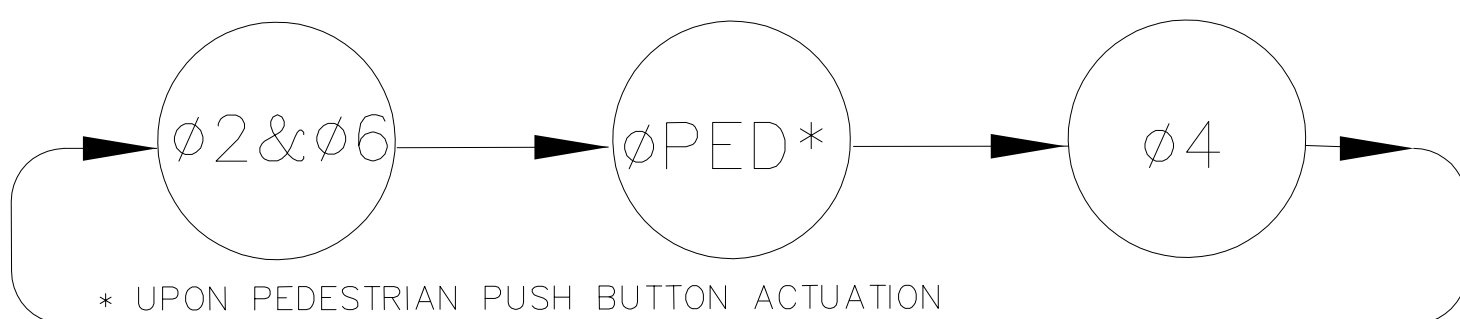
DETECTOR		NON-LOCK	NON-LOCK	NON-LOCK	LOCK
RECALL		SOFT	OFF	SOFT	OFF
NOTES:		ø2	ø4	ø6	ø9(PED)*
1. AUTOMATIC FLASHING OPERATION PER M.U.T.C.D. SECTION 4D.12.					

- NOTES:
1. AUTOMATIC FLASHING OPERATION PER M.U.T.C.D. SECTION 4D.12.
 2. * UPON PEDESTRIAN PUSH BUTTON ACTUATION
 3. PERM = PERMISSIVE
 4. Y = YIELD
 5. MAXIMUM 1 = NORMAL OPERATION
 6. MAXIMUM 2 = NOT USED
 7. STOP AND GO OPERATION FOR 24 HOURS PER DAY. FLASHING OPERATION FOR EMERGENCY ONLY.
 9. FDW THRU YELLOW AND RED ENABLED FOR PHASE 9.

SEQUENCE & TIMING NOTES:

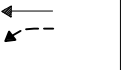
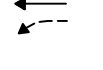
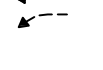
1. IF THE ASSIGNED RIGHT OF WAY FOR ANY TRAFFIC MOVEMENT IS TO REMAIN IN EFFECT DURING THE NEXT CALLED PHASE, THE SIGNAL INDICATIONS FOR THAT TRAFFIC MOVEMENT WILL NOT CHANGE DURING THE CLEARANCE INTERVAL.
2. THE RIGHT OF WAY MAY BE ASSIGNED TO ANY PHASE OR ANY COMBINATION OF NON-CONFLICTING PHASES.
3. IF CALLS EXIST ON ALL PHASES, THE ASSIGNMENT OF RIGHT OF WAY SHALL BE IN ACCORDANCE WITH THE PREFERENTIAL PHASE SEQUENCE.
4. IF THE ASSIGNED RIGHT OF WAY FOR ANY TRAFFIC MOVEMENT IS TO CHANGE DURING THE NEXT CALLED PHASE, THE SIGNAL INDICATION FOR THAT MOVEMENT WILL DISPLAY THE APPROPRIATE CLEARANCE INTERVALS.

EXISTING
PREFERENTIAL PHASE SEQUENCE



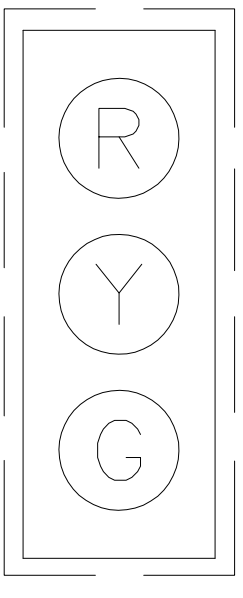
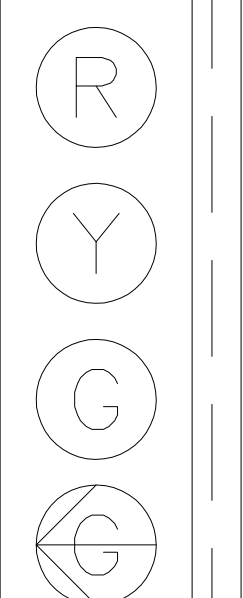
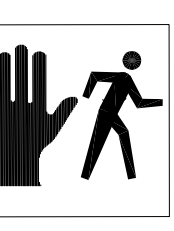
EMERGENCY VEHICLE PRE-EMPTION OPERATION.

1. EMERGENCY VEHICLE PRE-EMPTION SIGNALS SHALL BE OPTICALLY TRANSMITTED BY OPTICAL EMITTERS MOUNTED IN EMERGENCY VEHICLES AND RECEIVED BY OPTICAL DETECTORS LOCATED AT EACH INTERSECTION.
2. PRE-EMPTION SIGNALS SHALL BE SERVICED ON A PRIORITY BASIS WITH DETECTORS D1, D2 OR D3 ASSIGNED DESCENDING PRIORITIES AS FOLLOWS: (D1 HIGHEST AND D3 LOWEST)
3. IN RESPONSE TO A PRE-EMPTION SIGNAL RECEIVED AT AN INTERSECTION BY OPTICAL DETECTOR D1 (OR D2, D3) THE CONTROLLER SHALL HOLD OR ADVANCE TO AND HOLD IN EMERGENCY VEHICLE PRE-EMPTION PHASE #1 (OR #2, #3) GREEN FOR A MINIMUM OF TEN (10) SECONDS OR UNTIL PRE-EMPTION SIGNAL CEASES. THE CONTROLLER SHALL THEN TIME PRE-EMPTION PHASE CLEARANCES FOR THE ASSOCIATED PHASE(S) AS SHOWN IN THE SEQUENCE AND TIMING CHART AND SERVICE SUBSEQUENT EMERGENCY VEHICLE PRE-EMPTION PHASES AS NECESSARY
4. MINIMUM GREEN AND NORMAL VEHICLE AND PEDESTRIAN CLEARANCE TIMES SHALL BE PROVIDED ON PHASES THAT ARE TO BE TERMINATED BY PRE-EMPTION DEMAND.
5. PRE-EMPTION STROBE SHALL BE ILLUMINATED WHENEVER ANY EMERGENCY VEHICLE PRE-EMPTION GREEN IS ON.
6. EMERGENCY VEHICLE PRE-EMPTION SHALL OVERRIDE TRANSIT VEHICLE PRIORITY.

EXISTING/PROPOSED PRE-EMPTION PHASING & PRIORITY				
DETECTOR & PRIORITY	PRE-EMPT PHASE ASSIGNMENT	PRE-EMPT MOVEMENT & PHASE ASSIGNMENT	LOW PRIORITY MOVEMENT & PHASE ASSIGNMENT	
D1	1		ø4	
D2	2		ø2	
D3	3		ø6	

TRANSIT VEHICLE PRIORITY OPERATION.

1. TRANSIT VEHICLE PRIORITY CALLS SHALL BE OPTICALLY TRANSMITTED BY OPTICAL EMITTERS MOUNTED IN TRANSIT VEHICLES AND RECEIVED BY OPTICAL DETECTORS LOCATED AT EACH INTERSECTION.
2. TRANSIT VEHICLE PRIORITY CALL SHALL BE SERVICED ON A PRE-DEFINED BASIS FOR DETECTORS D2 OR D3 WITH D2 HIGHEST AND D3 LOWEST.
3. IN RESPONSE TO A PRIORITY CALL RECEIVED AT AN INTERSECTION BY OPTICAL DETECTOR D2 OR D3 THE CONTROLLER SHALL INITIATE TRANSIT PRIORITY BASED ON THE ALGORITHM DESCRIBED IN THE CONTROLLER SPECIFICATIONS.
4. MINIMUM GREEN AND NORMAL VEHICLE CLEARANCE SHALL BE PROVIDED ON PHASES THAT ARE TO BE TERMINATED BY PRIORITY DEMAND.

EXISTING SIGNAL HEAD DATA		
A,B,C,D,G	E,F	P1-P8
		
		(L.E.D.)
		R&R P3,P4,P7
ALL 12" LENS		

- NOTES: 1. ALL SIGNAL HEADS ARE RIGID MOUNTED AND EQUIPPED WITH 5"± LOUVERED BACKPLATES.
2. ALL SIGNAL DISPLAYS ARE EQUIPPED W/L.E.D. MODULES.

EXISTING/PROPOSED DETECTOR DATA						
DETECTOR NO.	NO. SECTION/ SIZE	NO. OF TURNS	OPERATIONS	DELAY /EXT	CALL PHASE	LOOP CONNECTION
1	2-6'X20' QUADRUPOLE	2-4-2	PRESENCE	0	ø2	SERIES
2	2-6'X20' QUADRUPOLE	2-4-2	PRESENCE	0	ø2	SERIES
3	2-6'X20' QUADRUPOLE	2-4-2	PRESENCE	0	ø6	SERIES
4	1-6'X8' QUADRUPOLE	2-4-2	PRESENCE	0	ø6	SINGLE
5	2-6'X20' QUADRUPOLE	2-4-2	PRESENCE	0	ø4	SERIES
6	2-6'X20' QUADRUPOLE	2-4-2	PRESENCE	0	ø4	SERIES
6	2-6'X10'	3	PRESENCE	10 SEC DELAY	ø4	SERIES

- NOTES: 1. DELAY AND EXTENSION TIMINGS SHALL BE PROGRAMMED IN THE CONTROLLER ONLY
2. WIRE LOOPS TO BE INSTALLED IN FINAL PAVED SURFACE.

QUEUE DETECTOR OPERATION

1. A PRE-EMPT CALL SHALL BE PLACED INTO THE CONTROLLER AFTER A DELAY TIME ON DETECTOR 1 HAS TIMED OUT. (INITIALLY SET AT 10 SECONDS.)
2. THIS QUEUE PRE-EMPT SHALL CAUSE THE CONTROLLER TO FORCE OFF PHASES CURRENTLY IN OPERATION AND SERVICE PHASE 4.
3. PRE-EMPT DURATION SHALL INITIALLY BE SET FOR 30 SECONDS.
4. UPON TERMINATION OF PRE-EMPTION, THE CONTROLLER SHALL RETURN TO NORMAL OPERATION BY SERVICING PHASES 2 & 6.
5. THE CONTROLLER SHALL BE INITIALLY PROGRAMMED TO PROVIDE A MINIMUM RESERVICE TIME FOR QUEUE PRE-EMPT OF 4 MINUTES.
6. EMERGENCY VEHICLE PRE-EMPTION SHALL OVERRIDE QUEUE DETECTION PRE-EMPT.
7. MINIMUM GREEN AND NORMAL VEHICLE CLEARANCE SHALL BE PROVIDED ON PHASES THAT ARE TO BE TERMINATED BY PRE-EMPTION DEMAND.

ITEM 816.02
TRAFFIC SIGNAL RECONSTRUCTION
MAIN STREET AT I-91 EXIT 10/DOVER STREET
LIST OF MAJOR ITEMS REQUIRED

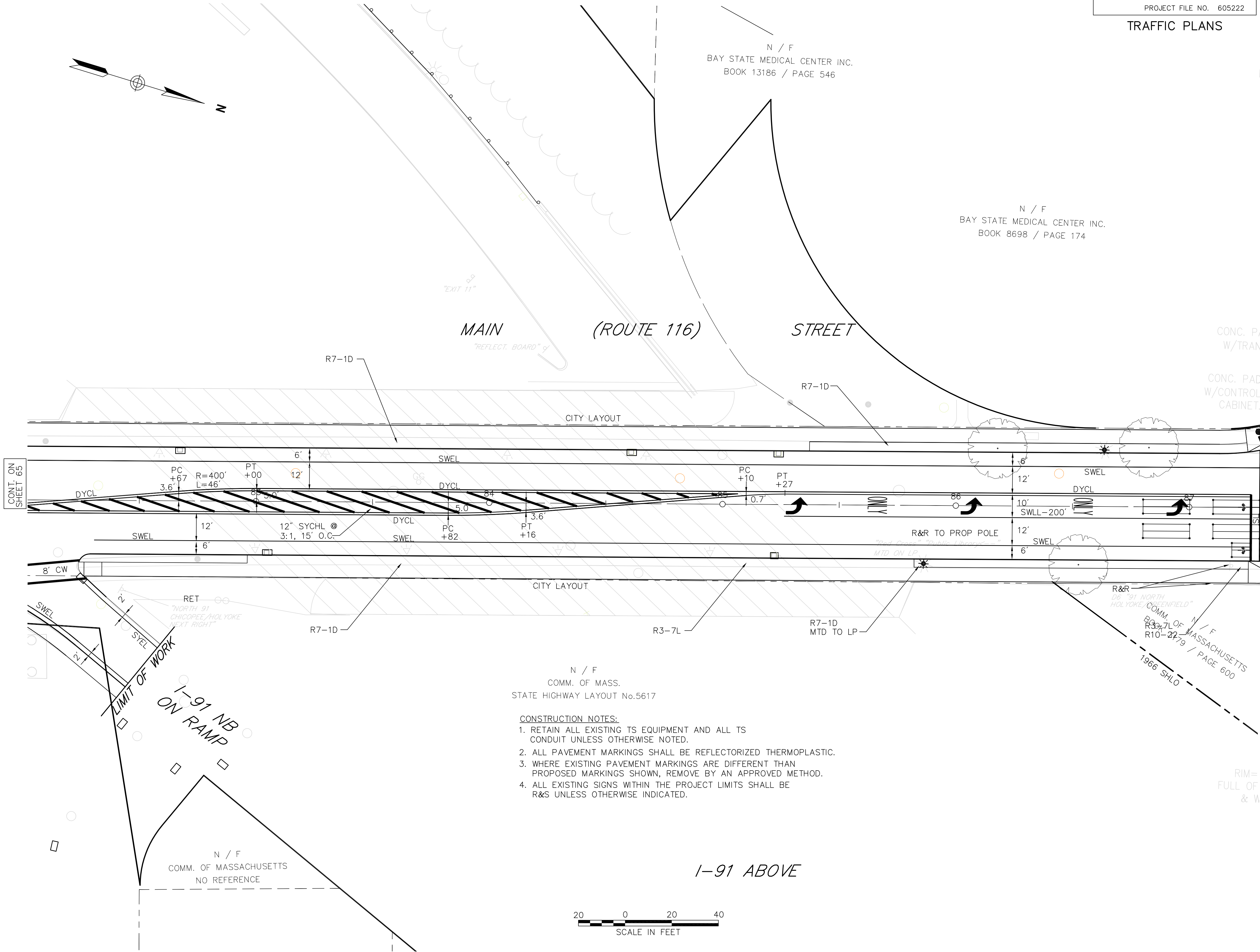
QUANTITY	DESCRIPTION
1	PROP TS 2 TYPE 1 CONTROLLER UNIT IN EXISTING CABINET ASSEMBLY
3	TS POST 8' STANDARD INCL. FOUNDATION
3	R&R EXISTING PEDESTRIAN SIGNAL HEAD
1	PEDESTRIAN PUSH BUTTON W/R10-3e(R) AND SIGN SADDLE
2	PEDESTRIAN PUSH BUTTON W/R10-3e(L) AND SIGN SADDLE
11	WIRE LOOP DETECTOR

PLUS NECESSARY DUCT, CABLE, LABOR, MISCELLANEOUS MATERIAL AND EQUIPMENT TO COMPLETE THE INSTALLATION AND PROVIDE AN OPERATING TRAFFIC CONTROL SIGNAL.

SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	67	145
PROJECT FILE NO. 605222			

TRAFFIC PLANS



- CONSTRUCTION NOTES:
1. RETAIN ALL EXISTING TS EQUIPMENT AND ALL TS CONDUIT UNLESS OTHERWISE NOTED.
 2. ALL PAVEMENT MARKINGS SHALL BE REFLECTORIZED THERMOPLASTIC.
 3. WHERE EXISTING PAVEMENT MARKINGS ARE DIFFERENT THAN PROPOSED MARKINGS SHOWN, REMOVE BY AN APPROVED METHOD.
 4. ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL BE R&S UNLESS OTHERWISE INDICATED.



STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	68	145
PROJECT FILE NO. 605222			

N / F
STATE MEDICAL CENTER INC.
BOOK 13186 / PAGE 546



SPRINGFIELD
NORTH END/BRIGHTWOOD – NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	69	145
PROJECT FILE NO. 605222			

TRAFFIC PLANS

SEQUENCE AND TIMING																								
APPROACH	DIRECTION	HOUSING	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	FLASHING OPERATION
MINIMUM INTERVAL			6			10			6			6			10			6						
VEHICLE EXTENSION			2			3			2			2			3			2						
MAXIMUM 1			x			x			x			x			x			x						
MAXIMUM 2			x			x			x			x			x			x						
YELLOW CLEARANCE				x			x			x			x			x			x			x		
RED CLEARANCE					x			x			x			x			x			x			x	
PEDESTRIAN INTERVAL																				x/x				
MAIN STREET	NB	A	R	R	R	G	Y	R	R	R	R	G-R	Y-R	R	R	R	R	R	R	R	R	R	R	FY
MAIN STREET	NB	B	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	FY
MAIN STREET	SB	C	G-	Y-	R-	G-	Y-	R-	G-	Y-	R-	G-	Y-	R-	G-	Y-	R-	G-	Y-	R-	G-	Y-	R-	FR-
MAIN STREET	SB	D,E	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	FY
WALTER STREET	EB	F,G	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	FR
NOBLE STREET	WB	H	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	FR
NOBLE STREET	WB	J	R-G	R-Y	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	FR
PEDESTRIAN X-ING	NB-SB	P1-P2	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W/FDW	DW	DW	OUT
PEDESTRIAN X-ING	EB-WB	P3-P4	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W/FDW	DW	DW	OUT
PEDESTRIAN X-ING	NB-SB	P5-P6	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W/FDW	DW	DW	OUT
PEDESTRIAN X-ING	EB-WB	P7-P8	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W/FDW	DW	DW	OUT
DETECTOR			NON-LOCK			NON-LOCK			NON-LOCK			NON-LOCK			NON-LOCK			NON-LOCK			LOCK			
RECALL			OFF			SOFT			OFF			OFF			SOFT			OFF			-			
			ø1			ø2			ø4			ø5			ø6			ø8			ø9(PED)			

- NOTES:
1. AUTOMATIC FLASHING OPERATION PER M.U.T.C.D. SECTION 4D.12.
 2. * UPON PEDESTRIAN PUSH BUTTON ACTUATION
 3. PERM = PERMISSIVE
 4. OL = OVERLAP
 5. MAXIMUM 1 = NORMAL OPERATION
 6. MAXIMUM 2 = NOT USED
 7. STOP AND GO OPERATION FOR 24 HOURS PER DAY. FLASHING OPERATION FOR EMERGENCY ONLY.
 8. DURING PEDESTRIAN INTERVAL, FDW THROUGH YELLOW OPERATION SHALL NOT BE IN EFFECT.

EMERGENCY VEHICLE PRE-EMPTION OPERATION.

1. EMERGENCY VEHICLE PRE-EMPTION SIGNALS SHALL BE OPTICALLY TRANSMITTED BY OPTICAL EMITTERS MOUNTED IN EMERGENCY VEHICLES AND RECEIVED BY OPTICAL DETECTORS LOCATED AT EACH INTERSECTION.
2. PRE-EMPTION SIGNALS SHALL BE SERVICED ON A PRIORITY BASIS WITH DETECTORS D1, D2, D3 OR D4 ASSIGNED DESCENDING PRIORITIES AS FOLLOWS: (D1 HIGHEST AND D4 LOWEST)
3. IN RESPONSE TO A PRE-EMPTION SIGNAL RECEIVED AT AN INTERSECTION BY OPTICAL DETECTOR D1 (OR D2, D3, D4) THE CONTROLLER SHALL HOLD OR ADVANCE TO AND HOLD IN EMERGENCY VEHICLE PRE-EMPTION PHASE #1 (OR #2, #3, #4) GREEN FOR A MINIMUM OF TEN (10) SECONDS OR UNTIL PRE-EMPTION SIGNAL CEASES. THE CONTROLLER SHALL THEN TIME PRE-EMPTION PHASE CLEARANCES FOR THE ASSOCIATED PHASE(S) AS SHOWN IN THE SEQUENCE AND TIMING CHART AND SERVICE SUBSEQUENT EMERGENCY VEHICLE PRE-EMPTION PHASES AS NECESSARY
4. MINIMUM GREEN AND NORMAL VEHICLE AND PEDESTRIAN CLEARANCE TIMES SHALL BE PROVIDED ON PHASES THAT ARE TO BE TERMINATED BY PRE-EMPTION DEMAND.
5. PRE-EMPTION STROBE SHALL BE ILLUMINATED WHENEVER ANY EMERGENCY VEHICLE PRE-EMPTION GREEN IS ON.
6. EMERGENCY VEHICLE PRE-EMPTION SHALL OVERRIDE COORDINATION AND TRANSIT VEHICLE PRIORITY.

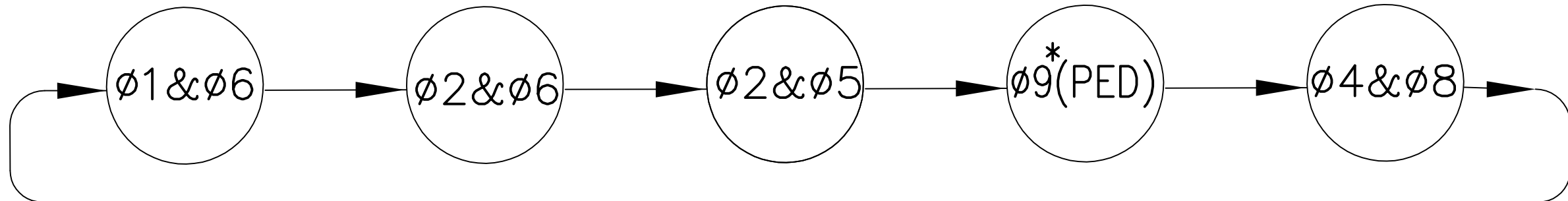
SIGNAL HEAD DATA				
A	B,D,E,F,G,H	C	J	P1-P8
ALL 12" LENS				

- NOTES:
1. ALL SIGNAL HEADS SHALL BE RIGID MOUNTED.
 2. ALL SIGNAL HEADS SHALL BE EQUIPPED WITH 5"± LOUVERED BACKPLATES. ALL BACKPLATES SHALL CONTAIN A 2" WIDE YELLOW REFLECTIVE BORDER.
 3. ALL SIGNAL HEADS SHALL BE EQUIPPED WITH TUNNEL VISORS.
 4. ALL SIGNAL DISPLAYS SHALL BE EQUIPPED W/L.E.D. MODULES.

SEQUENCE & TIMING NOTES:

1. IF THE ASSIGNED RIGHT OF WAY FOR ANY TRAFFIC MOVEMENT IS TO REMAIN IN EFFECT DURING THE NEXT CALLED PHASE, THE SIGNAL INDICATIONS FOR THAT TRAFFIC MOVEMENT WILL NOT CHANGE DURING THE CLEARANCE INTERVAL.
2. THE RIGHT OF WAY MAY BE ASSIGNED TO ANY PHASE OR ANY COMBINATION OF NON-CONFLICTING PHASES.
3. IF CALLS EXIST ON ALL PHASES, THE ASSIGNMENT OF RIGHT OF WAY SHALL BE IN ACCORDANCE WITH THE PREFERENTIAL PHASE SEQUENCE.
4. IF THE ASSIGNED RIGHT OF WAY FOR ANY TRAFFIC MOVEMENT IS TO CHANGE DURING THE NEXT CALLED PHASE, THE SIGNAL INDICATION FOR THAT MOVEMENT WILL DISPLAY THE APPROPRIATE CLEARANCE INTERVALS.

PREFERENTIAL PHASE SEQUENCE



PRE-EMPTION PHASING & PRIORITY			
DETECTOR & PRIORITY	PRE-EMPT PHASE ASSIGNMENT	PRE-EMPT MOVEMENT & PHASE ASSIGNMENT	LOW PRIORITY MOVEMENT & PHASE ASSIGNMENT
D1	1	ø2&ø5	ø2&ø6
D2	2	ø1&ø6	ø2&ø6
D3	3		
D4	4		

TRANSIT VEHICLE PRIORITY OPERATION.

1. TRANSIT VEHICLE PRIORITY CALLS SHALL BE OPTICALLY TRANSMITTED BY OPTICAL EMITTERS MOUNTED IN TRANSIT VEHICLES AND RECEIVED BY OPTICAL DETECTORS LOCATED AT EACH INTERSECTION.
2. TRANSIT VEHICLE PRIORITY CALL SHALL BE SERVICED ON A PRE-DEFINED BASIS FOR DETECTORS D1 OR D2 WITH D1 HIGHEST AND D2 LOWEST.
3. IN RESPONSE TO A PRIORITY CALL RECEIVED AT AN INTERSECTION BY OPTICAL DETECTOR D1 OR D2 THE CONTROLLER SHALL INITIATE TRANSIT PRIORITY BASED ON THE ALGORITHM DESCRIBED IN THE CONTROLLER SPECIFICATIONS.
4. MINIMUM GREEN AND NORMAL VEHICLE CLEARANCE SHALL BE PROVIDED ON PHASES THAT ARE TO BE TERMINATED BY PRIORITY DEMAND.
5. COORDINATION SHALL BE MAINTAINED DURING TRANSIT VEHICLE PRIORITY.

ITEM 816.03
TRAFFIC SIGNAL RECONSTRUCTION
MAIN STREET AT WALTER STREET/NOBLE STREET
LIST OF MAJOR ITEMS REQUIRED

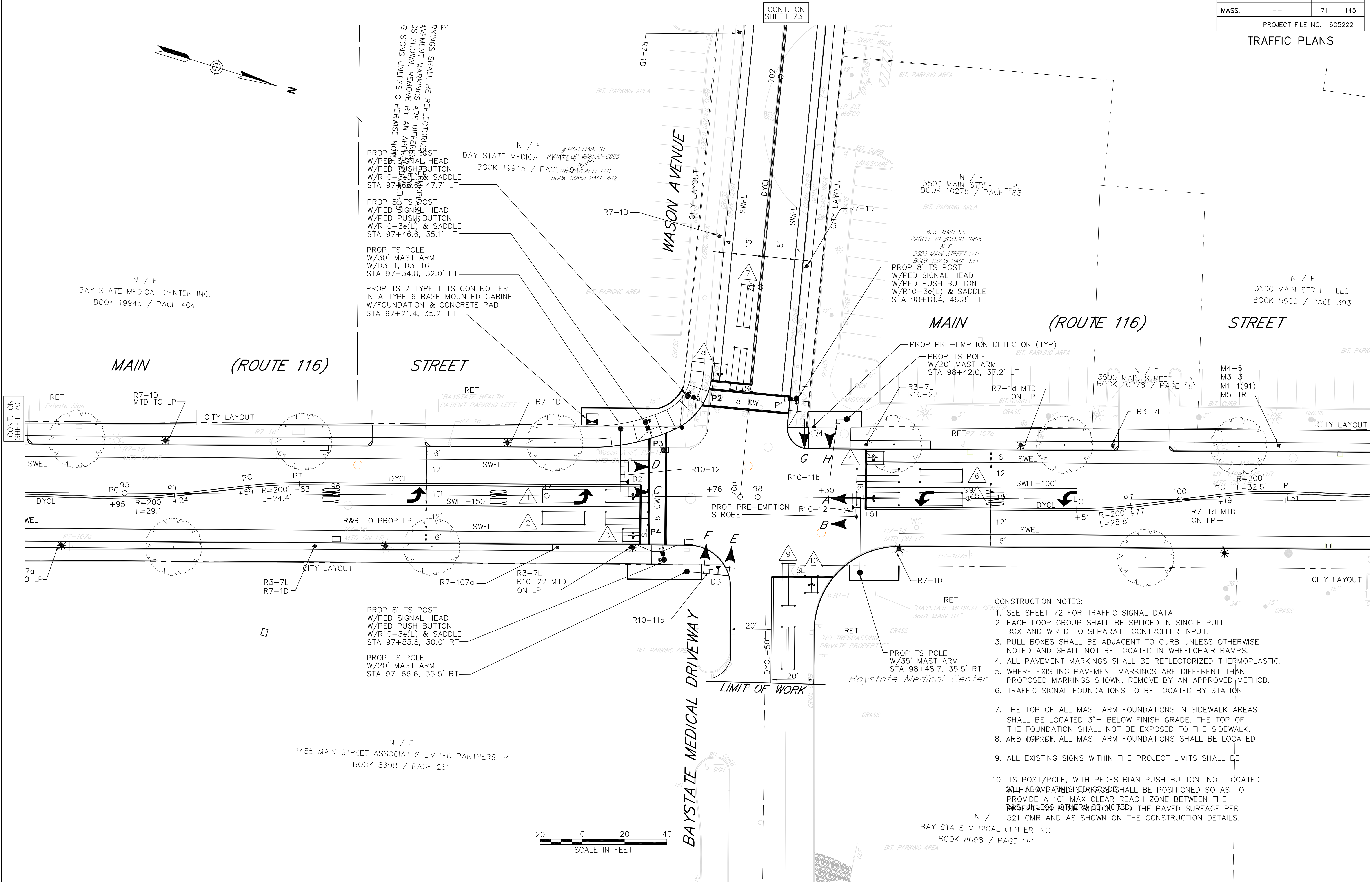
QUANTITY	DESCRIPTION
1	8ø TS 2 TYPE 2 CONTROLLER IN A TYPE 6 BASE MOUNTED CABINET INCL. FOUNDATION AND CONCRETE PAD
1	GPS TIME SYNCH DEVICE
1	TS 30' MAST ARM TYPE 2, STEEL, INCL. FOUNDATION
3	TS 35' MAST ARM TYPE 2, STEEL, INCL. FOUNDATION
6	TS POST 8' STANDARD INCL. FOUNDATION
7	SIGNAL HEAD, 3-SECTION, 12" LENSES
2	SIGNAL HEAD, 4-SECTION, BI-MODAL, 12" LENSES
8	PEDESTRIAN SIGNAL HEAD W/COUNTDOWN TIMER
3	PEDESTRIAN PUSH BUTTON W/R10-3ø(R) AND SIGN SADDLE
5	PEDESTRIAN PUSH BUTTON W/R10-3ø(L) AND SIGN SADDLE
x	PULL BOX-12"x12"
5	TYPE C, 2-CHANNEL CARD RACK LOOP DETECTOR AMPLIFIER
16	WIRE LOOP DETECTOR
4	EMERGENCY PRE-EMPTION OPTICAL DETECTORS & DETECTOR CABLE
1	EMERGENCY PRE-EMPTION 4 CHANNEL PHASE SELECTOR
1	EMERGENCY PRE-EMPTION SYSTEM CHASSIS
1	EMERGENCY PRE-EMPTION STROBE (WHITE LENS)
1	SERVICE CONNECTION (UNDERGROUND)

PLUS NECESSARY DUCT, CABLE, LABOR, MISCELLANEOUS MATERIAL AND EQUIPMENT TO COMPLETE THE INSTALLATION AND PROVIDE AN OPERATING TRAFFIC CONTROL SIGNAL.

SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	71	145
PROJECT FILE NO. 605222			

TRAFFIC PLANS



							SEQUENCE AND TIMING																					FLASHING OPERATION
APPROACH	DIRECTION	HOUSING	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21					
MINIMUM INTERVAL			6			10			6			6			6			10										
VEHICLE EXTENSION			2			3			2			2			2			3										
MAXIMUM 1			x			x			x			x			x			x										
MAXIMUM 2			x			x			x			x			x			x										
YELLOW CLEARANCE				x			x			x			x			x			x			3						
RED CLEARANCE					x			x			x			x			x			x		0						
PEDESTRIAN INTERVAL																					7/12							
MAIN STREET	NB	A	R	R	R	G	Y	R	R	R	R	R	R	R	G-R	Y-R	R	R	R	R	R	R	R	R	FY			
MAIN STREET	NB	B	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	FY			
MAIN STREET	SB	C	G-R	Y-R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	FY			
MAIN STREET	SB	D	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	FY			
WASON AVENUE	EB	E	R	R	R	R	R	R	R	R	R	G-G	Y	R	R	R	R	R	R	R	R	R	R	R	FR			
WASON AVENUE	EB	F	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	FR			
BAYSIDE MEDICAL	WB	G	R	R	R	R	R	R	G-G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	FR			
BAYSIDE MEDICAL	WB	H	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	FR			
PEDESTRIAN X-ING	NB-SB	P1-P2	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W/FDW	DW	DW		OUT			
PEDESTRIAN X-ING	EB-WB	P3-P4	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W/FDW	DW	DW		OUT			
DETECTOR			NON-LOCK		NON-LOCK		NON-LOCK		NON-LOCK		NON-LOCK		NON-LOCK		NON-LOCK		NON-LOCK		LOCK									
RECALL			OFF		SOFT		OFF		OFF		OFF		OFF		SOFT		OFF											
			ø1		ø2		ø3		ø4		ø5		ø6		ø9*(PED)		ø7&ø8 NOT USED											

NOTES:

1. AUTOMATIC FLASHING OPERATION PER M.U.T.C.D. SECTION 4D.12.
2. * UPON PEDESTRIAN PUSH BUTTON ACTUATION
3. PERM = PERMISSIVE
4. MAXIMUM 1 = NORMAL OPERATION
5. MAXIMUM 2 = NOT USED
6. STOP AND GO OPERATION FOR 24 HOURS PER DAY. FLASHING OPERATION FOR EMERGENCY ONLY.
7. DURING PEDESTRIAN INTERVAL, FDW THROUGH YELLOW OPERATION SHALL NOT BE IN EFFECT.

EMERGENCY VEHICLE PRE-EMPTION OPERATION.

1. EMERGENCY VEHICLE PRE-EMPTION SIGNALS SHALL BE OPTICALLY TRANSMITTED BY OPTICAL EMITTERS MOUNTED IN EMERGENCY VEHICLES AND RECEIVED BY OPTICAL DETECTORS LOCATED AT EACH INTERSECTION.
2. PRE-EMPTION SIGNALS SHALL BE SERVICED ON A PRIORITY BASIS WITH DETECTORS D1, D2, D3 OR D4 ASSIGNED DESCENDING PRIORITIES AS FOLLOWS: (D1 HIGHEST AND D4 LOWEST)
3. IN RESPONSE TO A PRE-EMPTION SIGNAL RECEIVED AT AN INTERSECTION BY OPTICAL DETECTOR D1 (OR D2, D3, D4) THE CONTROLLER SHALL HOLD OR ADVANCE TO AND HOLD IN EMERGENCY VEHICLE PRE-EMPTION PHASE #1 (OR #2, #3, #4) GREEN FOR A MINIMUM OF TEN (10) SECONDS OR UNTIL PRE-EMPTION SIGNAL CEASES. THE CONTROLLER SHALL THEN TIME PRE-EMPTION PHASE CLEARANCES FOR THE ASSOCIATED PHASE(S) AS SHOWN IN THE SEQUENCE AND TIMING CHART AND SERVICE SUBSEQUENT EMERGENCY VEHICLE PRE-EMPTION PHASES AS NECESSARY
4. MINIMUM GREEN AND NORMAL VEHICLE AND PEDESTRIAN CLEARANCE TIMES SHALL BE PROVIDED ON PHASES THAT ARE TO BE TERMINATED BY PRE-EMPTION DEMAND.
5. PRE-EMPTION STROBE SHALL BE ILLUMINATED WHENEVER ANY EMERGENCY VEHICLE PRE-EMPTION GREEN IS ON.
6. EMERGENCY VEHICLE PRE-EMPTION SHALL OVERRIDE COORDINATION AND TRANSIT VEHICLE PRIORITY.

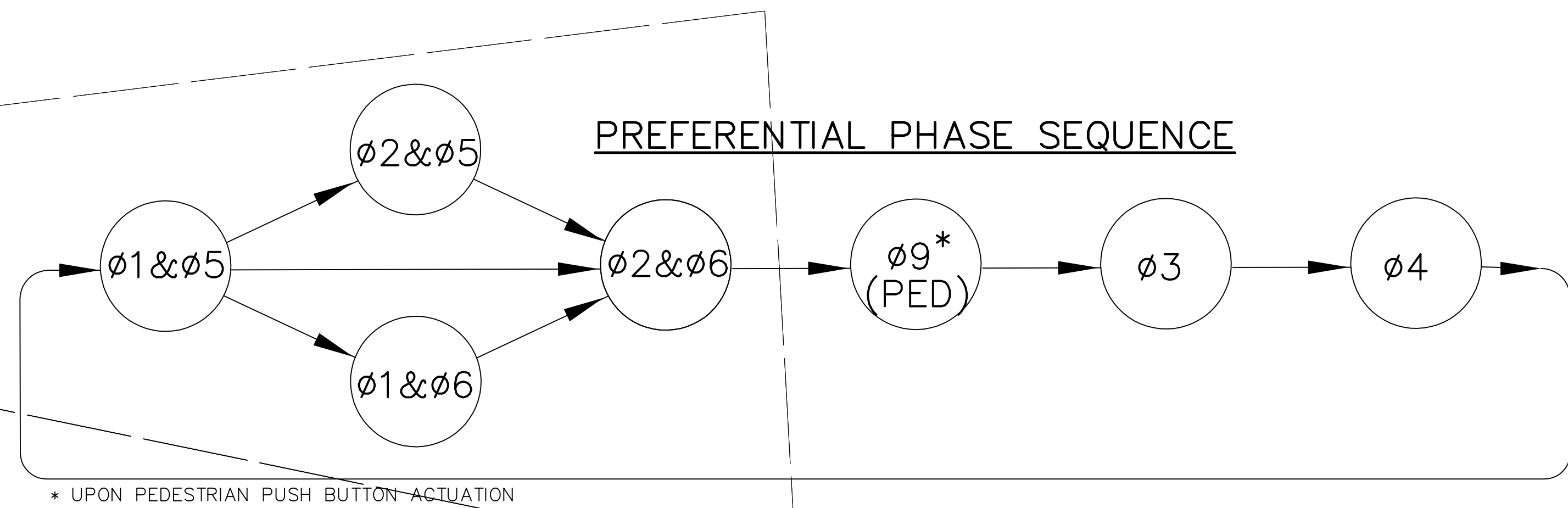
SIGNAL HEAD DATA			
A,C	B,D,F,H	E,G	P1-P6
ALL 12" LENS			

NOTES:

1. ALL SIGNAL HEADS SHALL BE RIGID MOUNTED.
2. ALL SIGNAL HEADS SHALL BE EQUIPPED WITH 5"± LOUVERED BACKPLATES. ALL BACKPLATES SHALL CONTAIN A 2" WIDE YELLOW REFLECTIVE BORDER.
3. ALL SIGNAL HEADS SHALL BE EQUIPPED WITH TUNNEL VISORS.
4. ALL SIGNAL DISPLAYS SHALL BE EQUIPPED W/L.E.D. MODULES.

SEQUENCE & TIMING NOTES:

1. IF THE ASSIGNED RIGHT OF WAY FOR ANY TRAFFIC MOVEMENT IS TO REMAIN IN EFFECT DURING THE NEXT CALLED PHASE, THE SIGNAL INDICATIONS FOR THAT TRAFFIC MOVEMENT WILL NOT CHANGE DURING THE CLEARANCE INTERVAL.
2. THE RIGHT OF WAY MAY BE ASSIGNED TO ANY PHASE OR ANY COMBINATION OF NON-CONFLICTING PHASES.
3. IF CALLS EXIST ON ALL PHASES, THE ASSIGNMENT OF RIGHT OF WAY SHALL BE IN ACCORDANCE WITH THE PREFERENTIAL PHASE SEQUENCE.
4. IF THE ASSIGNED RIGHT OF WAY FOR ANY TRAFFIC MOVEMENT IS TO CHANGE DURING THE NEXT CALLED PHASE, THE SIGNAL INDICATION FOR THAT MOVEMENT WILL DISPLAY THE APPROPRIATE CLEARANCE INTERVALS.



PRE-EMPTION PHASING & PRIORITY			
DETECTOR & PRIORITY	PRE-EMPT PHASE ASSIGNMENT	PRE-EMPT MOVEMENT & PHASE ASSIGNMENT	LOW PRIORITY MOVEMENT & PHASE ASSIGNMENT
D1	1	ø2&ø5	ø2&ø6
D2	2	ø1&ø6	ø2&ø6
D3	3	ø4	
D4	4	ø3	

TRANSIT VEHICLE PRIORITY OPERATION.

1. TRANSIT VEHICLE PRIORITY CALLS SHALL BE OPTICALLY TRANSMITTED BY OPTICAL EMITTERS MOUNTED IN TRANSIT VEHICLES AND RECEIVED BY OPTICAL DETECTORS LOCATED AT EACH INTERSECTION.
2. TRANSIT VEHICLE PRIORITY CALL SHALL BE SERVICED ON A PRE-DEFINED BASIS FOR DETECTORS D1 OR D2 WITH D1 HIGHEST AND D2 LOWEST.
3. IN RESPONSE TO A PRIORITY CALL RECEIVED AT AN INTERSECTION BY OPTICAL DETECTOR D1 OR D2 THE CONTROLLER SHALL INITIATE TRANSIT PRIORITY BASED ON THE ALGORITHM DESCRIBED IN THE CONTROLLER SPECIFICATIONS.
4. MINIMUM GREEN AND NORMAL VEHICLE CLEARANCE SHALL BE PROVIDED ON PHASES THAT ARE TO BE TERMINATED BY PRIORITY DEMAND.
5. COORDINATION SHALL BE MAINTAINED DURING TRANSIT VEHICLE PRIORITY.

ITEM 815.1
TRAFFIC CONTROL SIGNAL
MAIN STREET AT WASON AVENUE/BAYSTATE MEDICAL
LIST OF MAJOR ITEMS REQUIRED

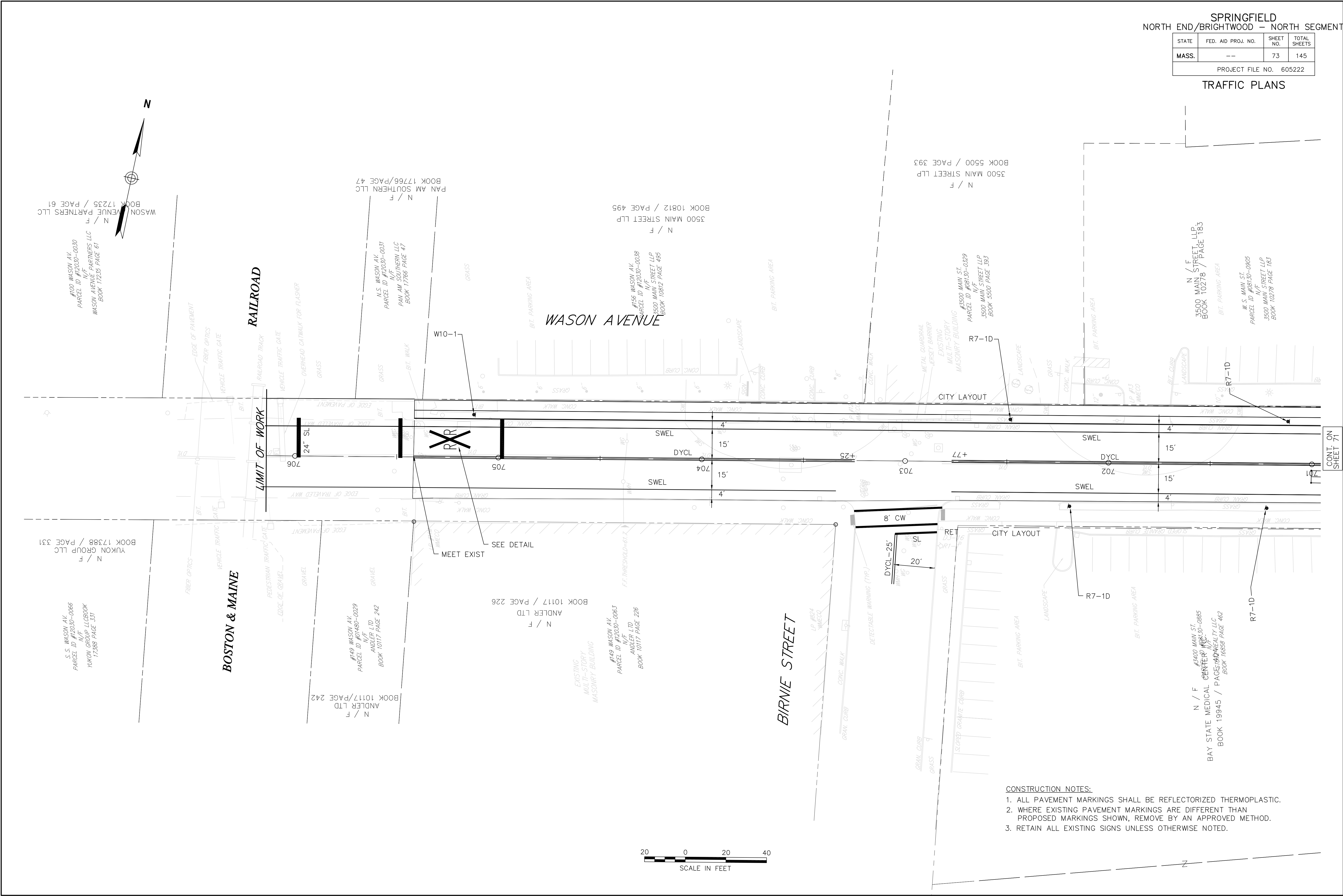
QUANTITY	DESCRIPTION
1	8ø TS 2 TYPE 1 CONTROLLER IN A TYPE 6 BASE MOUNTED CABINET INCL. FOUNDATION
1	GPS TIME-SYNCH DEVICE
2	TS 20' MAST ARM TYPE 2, STEEL, INCL. FOUNDATION
2	TS 35' MAST ARM TYPE 2, STEEL, INCL. FOUNDATION
4	TS POST 8' STANDARD INCL. FOUNDATION
4	SIGNAL HEAD, 3-SECTION, 12" LENSES
2	SIGNAL HEAD, 4-SECTION, 12" LENSES
2	SIGNAL HEAD, 4-SECTION, BI-MODAL, 12" LENSES
6	PEDESTRIAN SIGNAL HEAD W/COUNTDOWN TIMER
0	PEDESTRIAN PUSH BUTTON W/R10-3ø(R) AND SIGN SADDLE
4	PEDESTRIAN PUSH BUTTON W/R10-3ø(L) AND SIGN SADDLE
x	PULL BOX-12"x12"
5	TYPE C, 2-CHANNEL CARD RACK LOOP DETECTOR AMPLIFIER
16	WIRE LOOP DETECTOR
4	EMERGENCY PRE-EMPTION OPTICAL DETECTORS & DETECTOR CABLE
1	EMERGENCY PRE-EMPTION 4 CHANNEL PHASE SELECTOR
1	EMERGENCY PRE-EMPTION SYSTEM CHASSIS
1	EMERGENCY PRE-EMPTION STROBE (WHITE LENS)
1	SERVICE CONNECTION (UNDERGROUND)

PLUS NECESSARY DUCT, CABLE, LABOR, MISCELLANEOUS MATERIAL AND EQUIPMENT TO COMPLETE THE INSTALLATION AND PROVIDE AN OPERATING TRAFFIC CONTROL SIGNAL.

SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	73	145
PROJECT FILE NO. 605222			

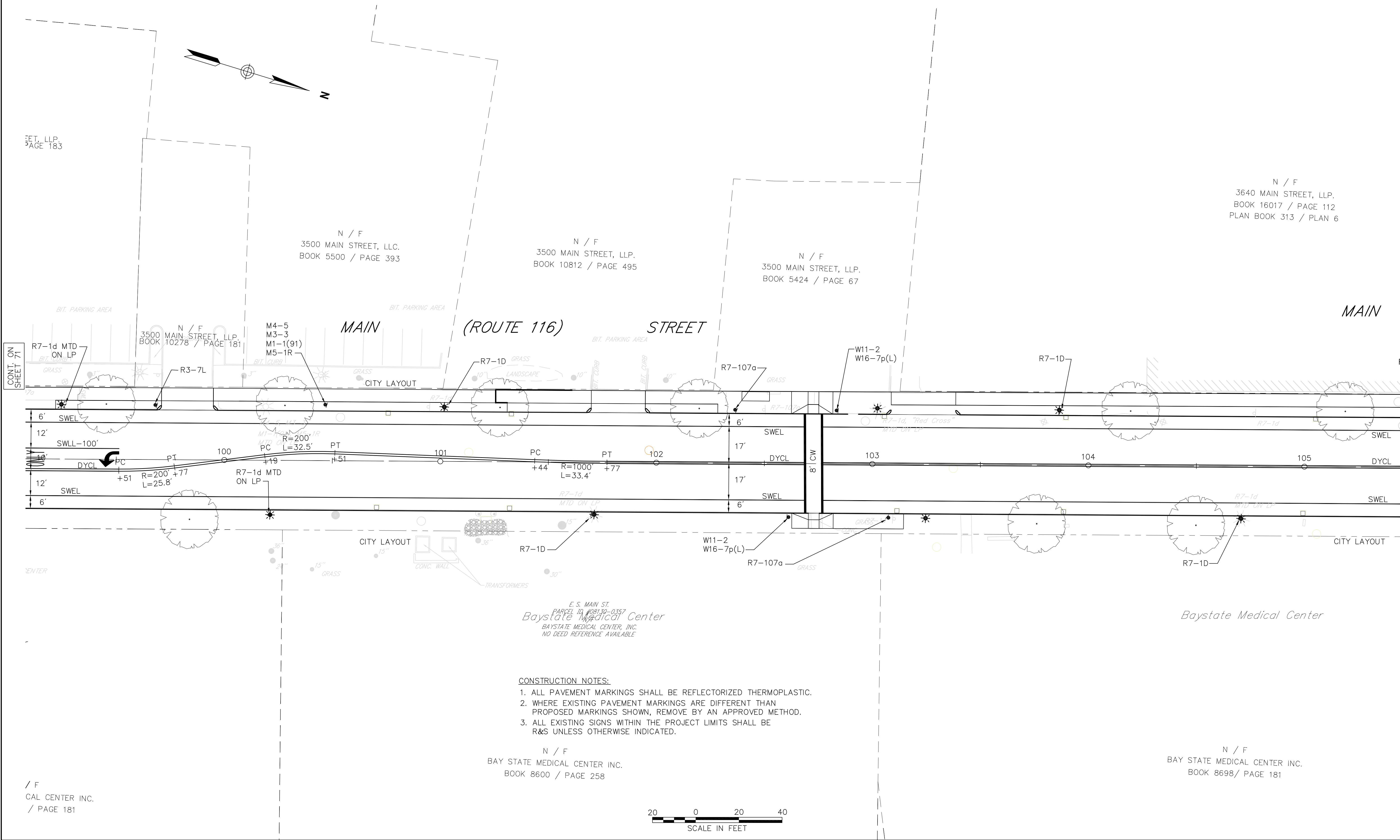
TRAFFIC PLANS



SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	74	145
PROJECT FILE NO. 605222			

TRAFFIC PLANS



SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	75	145
PROJECT FILE NO. 605222			

TRAFFIC PLANS

ITEM 824.10
FLASHING WARNING BEACON TYPE D
MAIN STREET AT BAYSTATE MEDICAL DRIVEWAY
LIST OF MAJOR ITEMS REQUIRED

QUANTITY	DESCRIPTION
1	FLASHER UNIT WITH POLE MOUNTED CONTROL CABINET (NEMA TYPE 3R)
1	TS 30' MAST ARM TYPE 2, STEEL, INCL. FOUNDATION
3	TS POST 10' STANDARD INCL. FOUNDATION
8	SIGNAL HEAD, 1-SECTION, 12" LENSES
2	PULL BOX-12"x12"
1	SERVICE CONNECTION (UNDERGROUND)

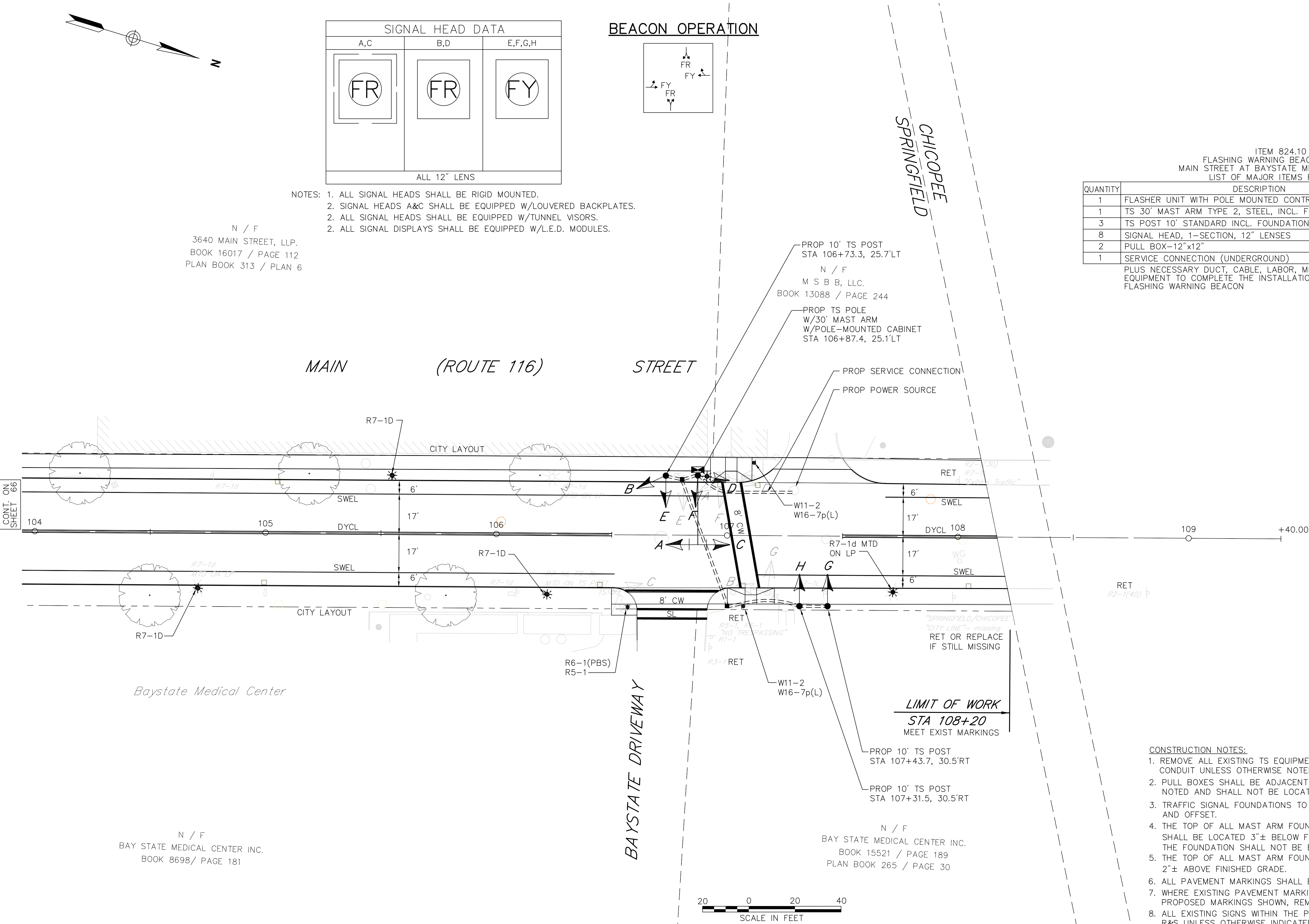
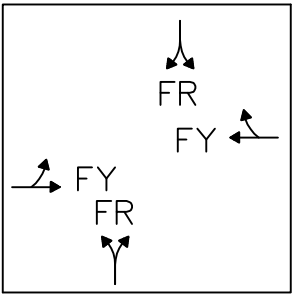
PLUS NECESSARY DUCT, CABLE, LABOR, MISCELLANEOUS MATERIAL AND EQUIPMENT TO COMPLETE THE INSTALLATION AND PROVIDE AN OPERATING FLASHING WARNING BEACON

SIGNAL HEAD DATA		
A,C	B,D	E,F,G,H
ALL 12" LENS		

- NOTES:
1. ALL SIGNAL HEADS SHALL BE RIGID MOUNTED.
 2. SIGNAL HEADS A&C SHALL BE EQUIPPED W/LOUVERED BACKPLATES.
 2. ALL SIGNAL HEADS SHALL BE EQUIPPED W/TUNNEL VISORS.
 2. ALL SIGNAL DISPLAYS SHALL BE EQUIPPED W/L.E.D. MODULES.

N / F
3640 MAIN STREET, LLP.
BOOK 16017 / PAGE 112
PLAN BOOK 313 / PLAN 6

BEACON OPERATION



N / F
BAY STATE MEDICAL CENTER INC.
BOOK 8698/ PAGE 181

N / F
BAY STATE MEDICAL CENTER INC.
BOOK 15521 / PAGE 189
PLAN BOOK 265 / PAGE 30

- CONSTRUCTION NOTES:
1. REMOVE ALL EXISTING TS EQUIPMENT AND ABANDON ALL TS CONDUIT UNLESS OTHERWISE NOTED.
 2. PULL BOXES SHALL BE ADJACENT TO CURB UNLESS OTHERWISE NOTED AND SHALL NOT BE LOCATED IN WHEELCHAIR RAMPS.
 3. TRAFFIC SIGNAL FOUNDATIONS TO BE LOCATED BY STATION AND OFFSET.
 4. THE TOP OF ALL MAST ARM FOUNDATIONS IN SIDEWALK AREAS SHALL BE LOCATED 3'± BELOW FINISH GRADE. THE TOP OF THE FOUNDATION SHALL NOT BE EXPOSED TO THE SIDEWALK.
 5. THE TOP OF ALL MAST ARM FOUNDATIONS SHALL BE LOCATED 2'± ABOVE FINISHED GRADE.
 6. ALL PAVEMENT MARKINGS SHALL BE REFLECTORIZED THERMOPLASTIC.
 7. WHERE EXISTING PAVEMENT MARKINGS ARE DIFFERENT THAN PROPOSED MARKINGS SHOWN, REMOVE BY AN APPROVED METHOD.
 8. ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL BE R&S UNLESS OTHERWISE INDICATED.

TRAFFIC PLANS



SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	77	145

PROJECT FILE NO. 605222

TRAFFIC PLANS

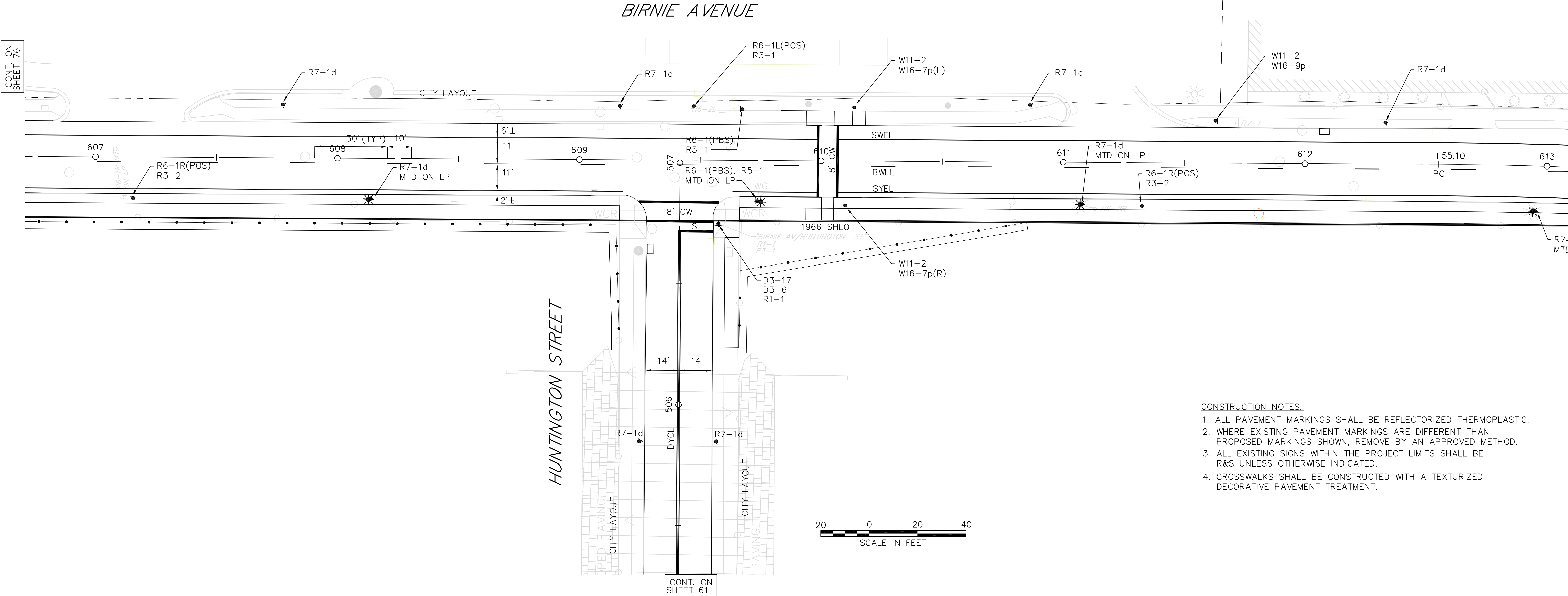
N / F
CROWLEY, BONAVITA & CAR
BOOK 10034 / PAGE 304

N / F
COMMONWEALTH OF MASSACHUSETTS
BOOK 5580 / PAGE 1

CONT. ON
SHEET 76

CONT. ON
SHEET 78

- CONSTRUCTION NOTES:
- ALL PAVEMENT MARKINGS SHALL BE REFLECTORIZED THERMOPLASTIC.
 - WHERE EXISTING PAVEMENT MARKINGS ARE DIFFERENT THAN PROPOSED MARKINGS SHOWN, REMOVE BY AN APPROVED METHOD.
 - ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL BE R&S UNLESS OTHERWISE INDICATED.
 - CROSSWALKS SHALL BE CONSTRUCTED WITH A TEXTURIZED DECORATIVE PAVEMENT TREATMENT.



CONT. ON
SHEET 61

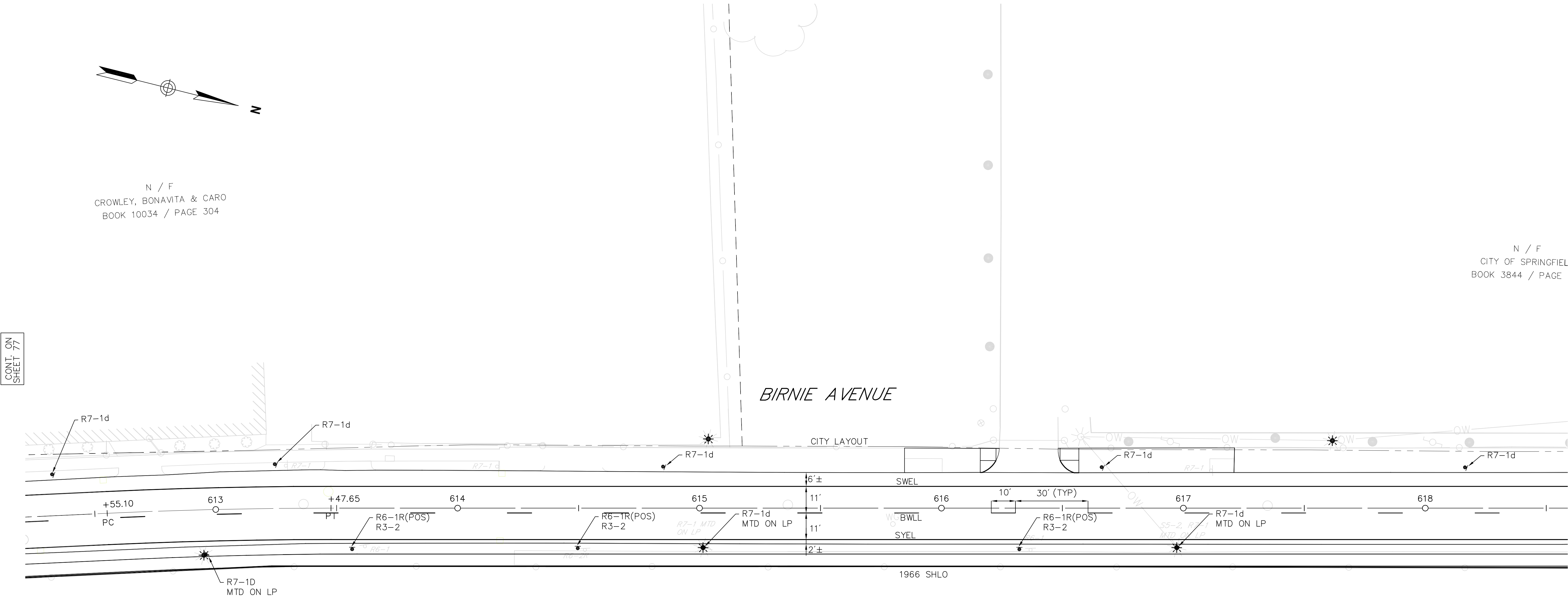
SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	78	145
PROJECT FILE NO. 605222			

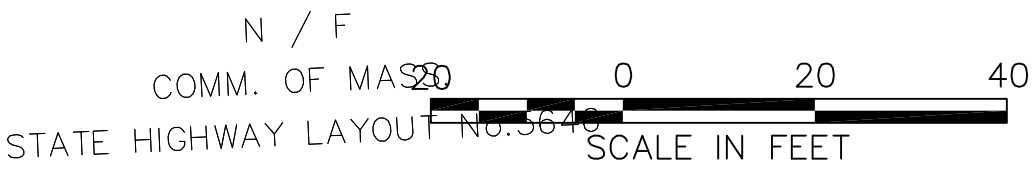
TRAFFIC PLANS

N / F
CROWLEY, BONAVITA & CARO
BOOK 10034 / PAGE 304

N / F
CITY OF SPRINGFIELD
BOOK 3844 / PAGE



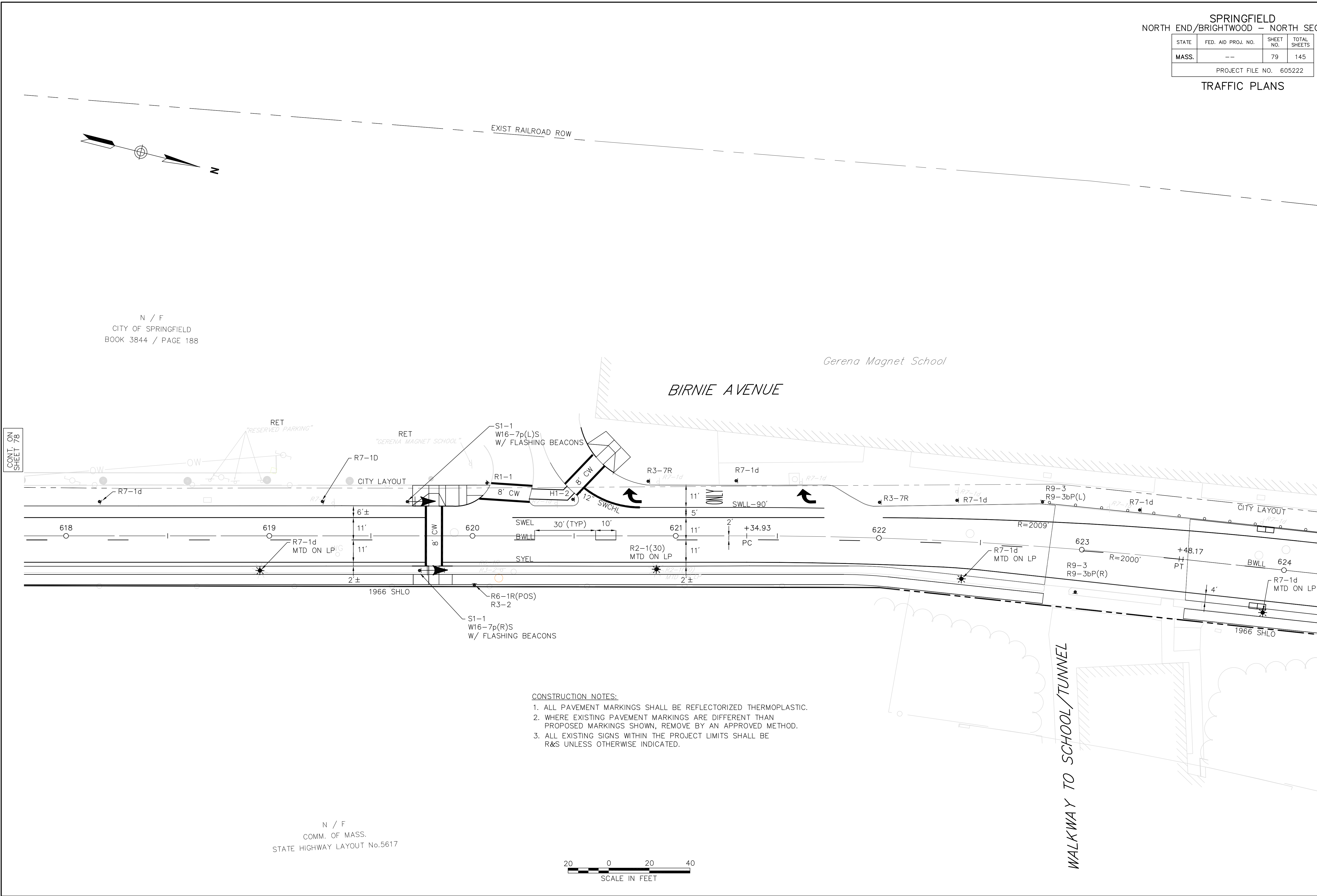
- CONSTRUCTION NOTES:
1. ALL PAVEMENT MARKINGS SHALL BE REFLECTORIZED THERMOPLASTIC.
 2. WHERE EXISTING PAVEMENT MARKINGS ARE DIFFERENT THAN PROPOSED MARKINGS SHOWN, REMOVE BY AN APPROVED METHOD.
 3. ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL BE R&S UNLESS OTHERWISE INDICATED.



SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	79	145
PROJECT FILE NO. 605222			

TRAFFIC PLANS



N / F
CITY OF SPRINGFIELD
BOOK 3844 / PAGE 188

N / F
COMM. OF MASS.
STATE HIGHWAY LAYOUT No.5617

- CONSTRUCTION NOTES:
1. ALL PAVEMENT MARKINGS SHALL BE REFLECTORIZED THERMOPLASTIC.
 2. WHERE EXISTING PAVEMENT MARKINGS ARE DIFFERENT THAN PROPOSED MARKINGS SHOWN, REMOVE BY AN APPROVED METHOD.
 3. ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL BE R&S UNLESS OTHERWISE INDICATED.



SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	80	145
PROJECT FILE NO. 605222			

TRAFFIC PLANS

N / F
BIRNIE MEDICAL, LLC.
BOOK 10943 / PAGE 425

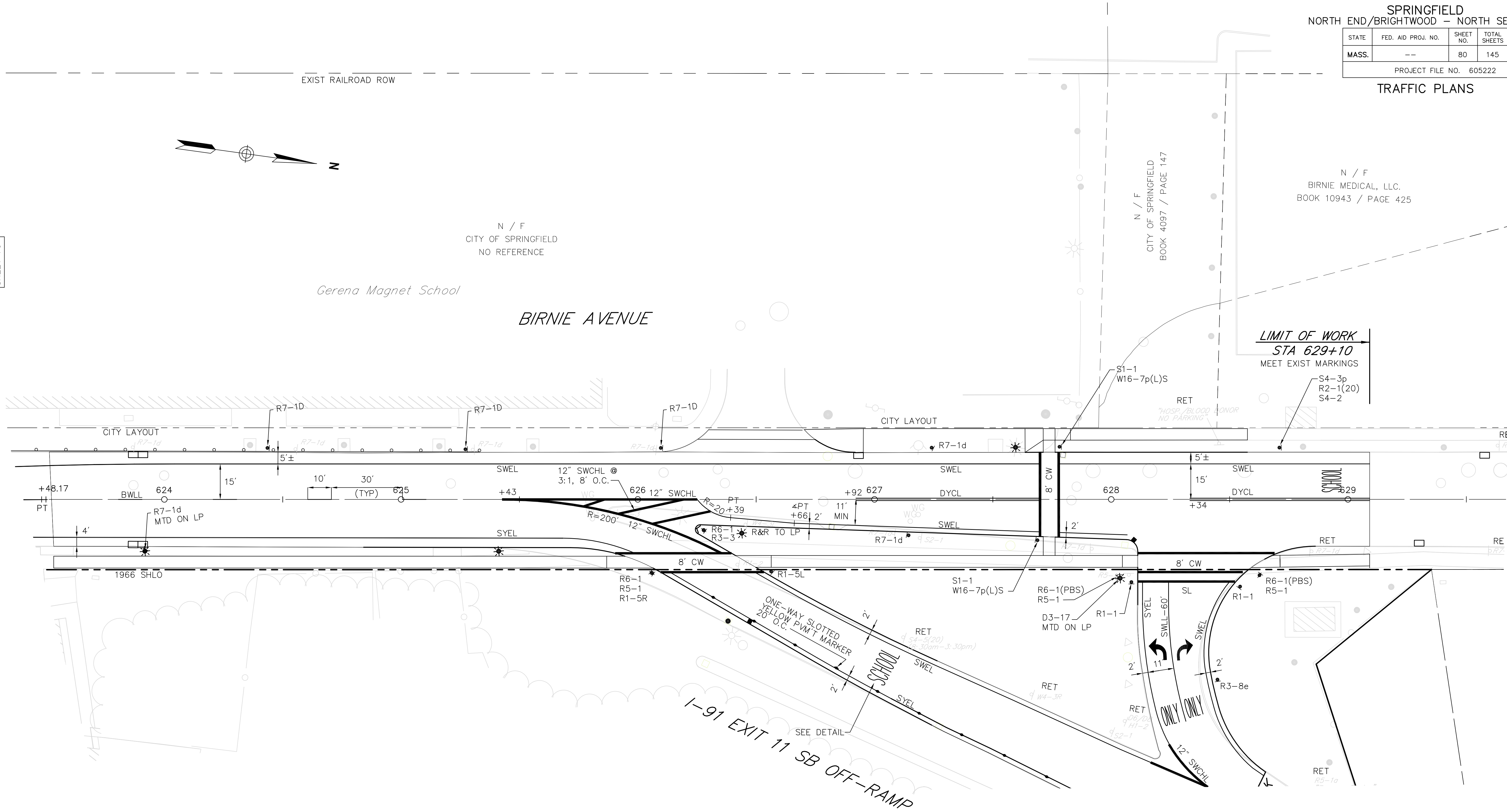
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CITY OF SPRINGFIELD
BOOK 4097 / PAGE 147

N / F
CITY OF SPRINGFIELD
NO REFERENCE

Gerena Magnet School

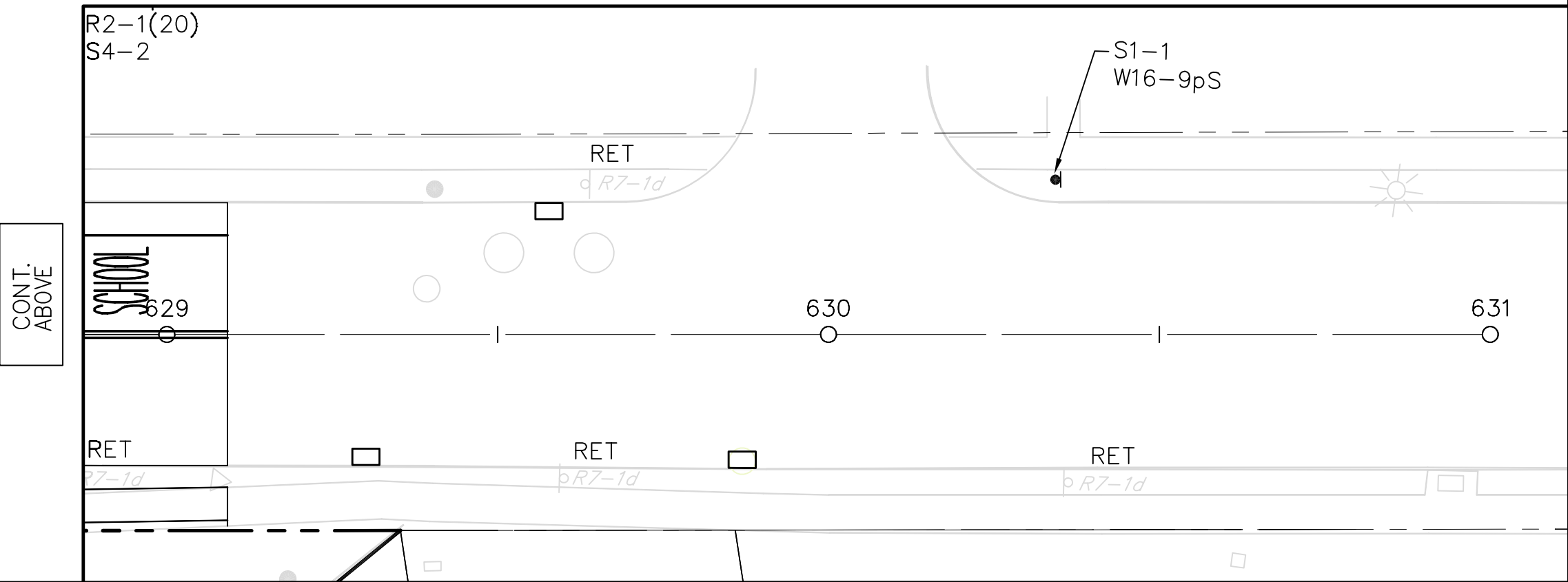
BIRNIE AVENUE

LIMIT OF WORK
STA 629+10
MEET EXIST MARKINGS



CONSTRUCTION NOTES:

1. ALL PAVEMENT MARKINGS SHALL BE REFLECTORIZED THERMOPLASTIC.
2. WHERE EXISTING PAVEMENT MARKINGS ARE DIFFERENT THAN PROPOSED MARKINGS SHOWN, REMOVE BY AN APPROVED METHOD.
3. ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL BE R&S UNLESS OTHERWISE INDICATED.

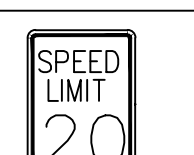
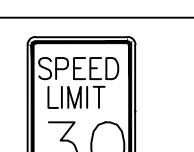
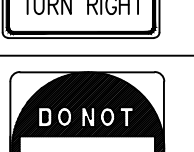
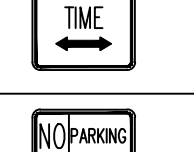
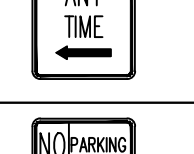
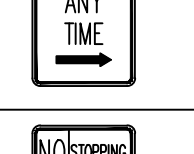


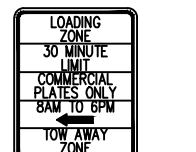
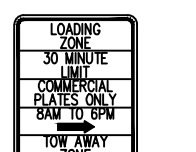
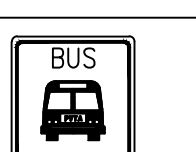
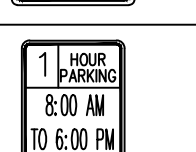
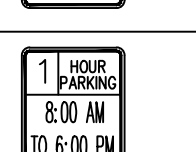
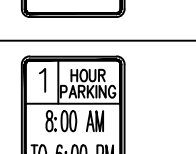
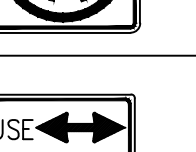
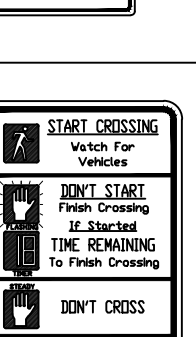
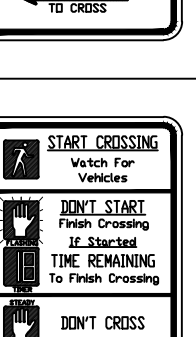
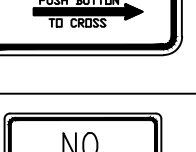
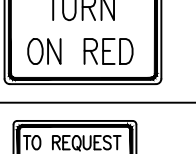
SPRINGFIELD
NORTH END/BRIGHTWOOD – NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	81	145
PROJECT FILE NO. 605222			

SIGN SUMMARY

TRAFFIC SIGN SUMMARY

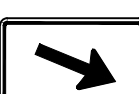
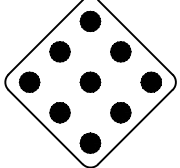
IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR			POST SIZE AND NUMBER REQUIRED	UNIT AREA (S.F.)	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND	BORDER			
R1-1	30"	30"		SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED			18	RED	WHITE	WHITE	P5-17 1 MTD ON LP	5.18	93.24
R1-2	36"X36"X36"						1	WHITE	RED	WHITE	P5-1	3.89	3.89
R1-5L	36"	36"					1	WHITE	RED/BLACK	BLACK	P5-1	9.00	9.00
R1-5R	36"	36"					1	WHITE	RED/BLACK	BLACK	P5-1	9.00	9.00
R2-1(20)	24"	30"					1	WHITE	BLACK	BLACK	P5-1	5.00	5.00
R2-1(30)	24"	30"					1	WHITE	BLACK	BLACK	1 MTD ON LP	5.00	5.00
R3-1	24"	24"					1	WHITE	RED/BLACK	BLACK	1 MTD W/OTHERS	4.00	4.00
R3-2	24"	24"					8	WHITE	RED/BLACK	BLACK	8 MTD W/OTHERS	4.00	32.00
R3-3	24"	24"					1	WHITE	BLACK	BLACK	P5-1	4.00	4.00
R3-7R	30"	30"					2	WHITE	BLACK	BLACK	P5-2	6.25	12.50
R5-1	30"	30"					15	RED	RED/WHITE	WHITE	14 MTD W/OTHERS 1 MTD ON LP	6.25	93.75
R6-1L(POS)	36"	12"					1	BLACK	WHITE	BLACK	P5-1	3.00	3.00
R6-1R(POS)	36"	12"					8	BLACK	WHITE	BLACK	P5-8	3.00	24.00
R6-1(PBS)	36"	12"					15	BLACK	WHITE/BLACK	WHITE	P5-14 1 MTD ON LP	3.00	45.00
R7-1d	12"	18"		PER CITY OF SPRINGFIELD STANDARDS			88	RED/WHITE	WHITE/RED	RED	P5-50 27 MTD ON LP 1 MTD ON TS POST	1.50	132.00
R7-1L	12"	18"					12	RED/WHITE	WHITE/RED	RED	P5-12	1.50	18.00
R7-1R	12"	18"					11	RED/WHITE	WHITE/RED	RED	P5-9 2 MTD ON LP	1.50	16.50
R7-4	12"	18"					7	RED/WHITE	WHITE/RED	RED	P5-7	1.50	10.50

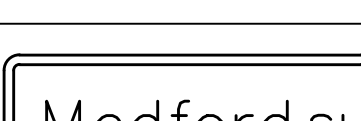
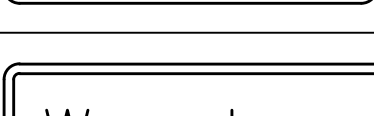
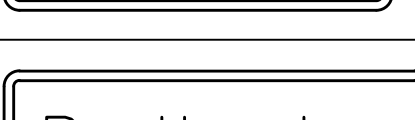
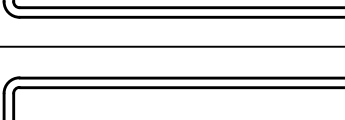
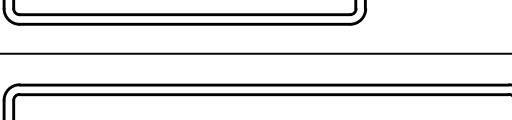
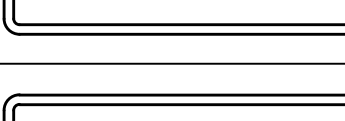
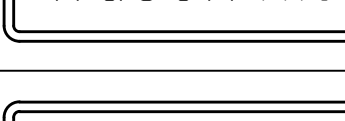
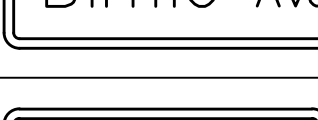
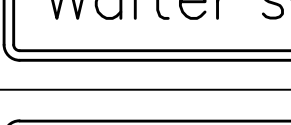
IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR			POST SIZE AND NUMBER REQUIRED	UNIT AREA (S.F.)	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND	BORDER			
R7-4L	12"	18"		PER CITY OF SPRINGFIELD STANDARDS			8	RED/WHITE	WHITE/RED	RED	P5-8	1.50	12.00
R7-5L	12"	18"					1	RED/WHITE	RED/WHITE	WHITE	P5-1	1.50	1.50
R7-5R	12"	18"					2	RED/WHITE	RED/WHITE	WHITE	2 MTD W/OTHERS	1.50	3.00
R7-8L	12"	18"		SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED			1	WHITE	GREEN/BLUE	GREEN	1 MTD W/OTHERS	1.50	1.50
R7-8R	12"	18"					1	WHITE	GREEN/BLUE	GREEN	1 MTD W/OTHERS	1.50	1.50
R7-107a	18"	24"		AS PER PIONEER VALLEY TRANSIT AUTHORITY			6	WHITE	BLUE/ORANGE	BLUE	P5-4 2 MTD ON LP	3.00	18.00
R7-108a	12"	18"		SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED			25	GREEN/WHITE	WHITE/GREEN	GREEN	P5-21 4 MTD ON LP	1.50	38.50
R7-108a(L)	12"	18"					8	GREEN/WHITE	WHITE/GREEN	GREEN	2 MTD ON LP 6 MTD W/OTHERS	1.50	12.00
R7-108a(R)	12"	18"					4	GREEN/WHITE	WHITE/GREEN	GREEN	4 MTD W/OTHERS	1.50	6.00
R9-3	18"	18"					2	WHITE	RED/BLACK	BLACK	P5-2	2.25	4.50
R9-3bP(d)	18"	12"					2	WHITE	BLACK	BLACK	2 MTD W/OTHERS	1.50	3.00
R10-3e(L)	9"	15"		AS PER MASSDOT STANDARDS			1	WHITE	BLACK/ORANGE	BLACK	1 MTD ON TS POST	PAID UNDER ITEMS 815.1, 816.01, 816.02 & 816.03	
R10-3e(R)	9"	15"					5	WHITE	BLACK/ORANGE	BLACK	5 MTD ON TS POST	PAID UNDER ITEMS 815.1, 816.01, 816.02 & 816.03	
R10-11b	30"	30"		SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED			4	WHITE	BLACK	BLACK	4 MTD ON TS MAST ARM	6.25	25.00
R10-22	18"	24"		AS PER MASSDOT STANDARDS			6	WHITE	BLACK	BLACK	P5-3 1 MTD W/OTHERS 2 MTD ON EXIST	3.00	18.00

NOTES:

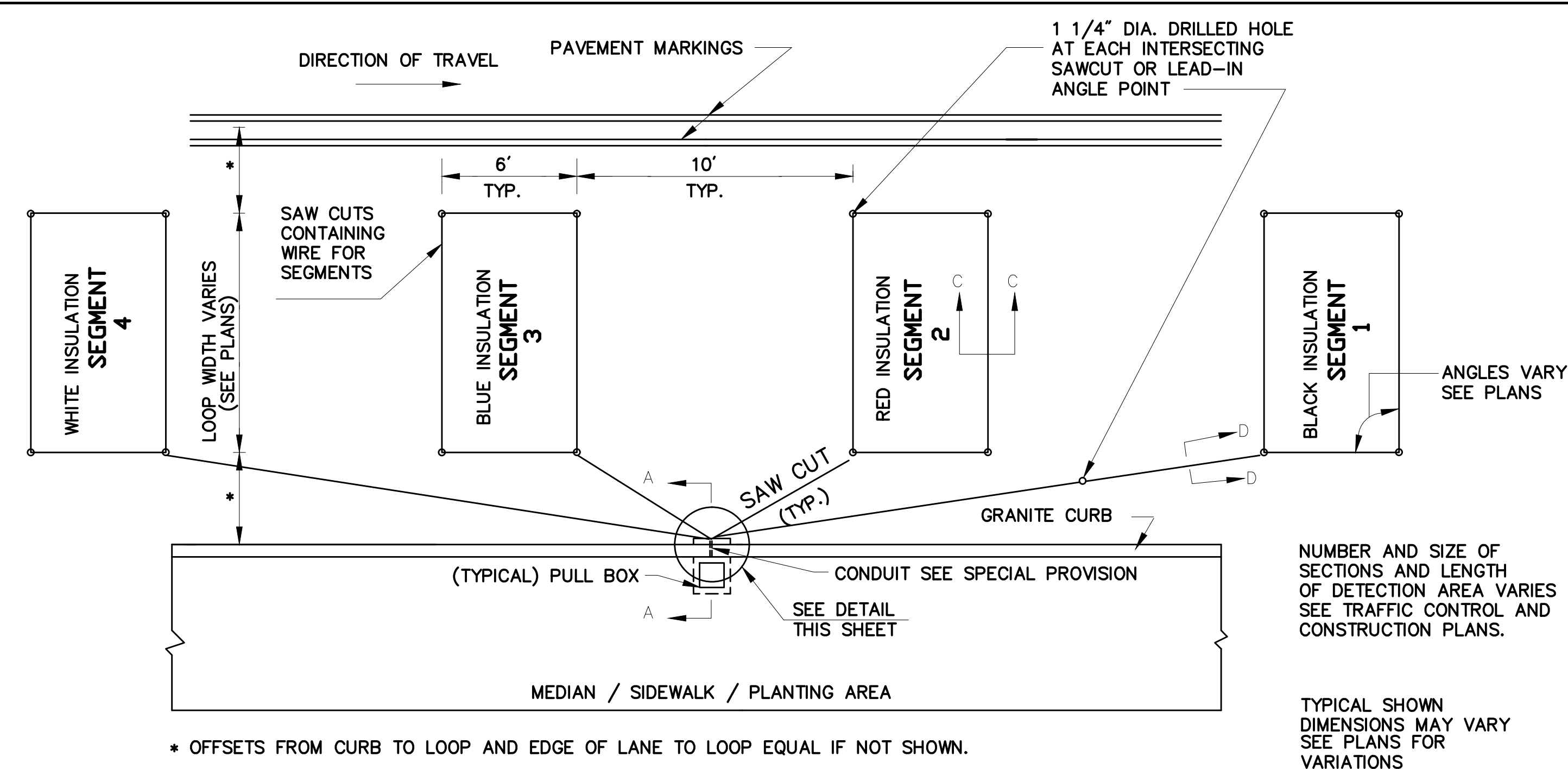
- SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION" FOR TEXT DIMENSIONS, AS AMENDED; THE MASSHIGHWAY DEPARTMENT SIGN LISTINGS 1993 EDITION, AS AMENDED..
- ALL PROPOSED REGULATORY AND WARNING SIGNS SHALL BE 0.08" ALUMINUM WITH HIGH INTENSITY PRISMATIC REFLECTIVE SHEETING.

TRAFFIC SIGN SUMMARY

IDENTIFI- CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR			POST SIZE AND NUMBER REQUIRED	UNIT AREA (S.F.)	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK- GROUND	LEGEND	BORDER			
W11-2	30"	30"		SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED			3	YELLOW	BLACK	BLACK	P5-3	6.25	18.75
W16-7p(L)	24"	12"					1	YELLOW	BLACK	BLACK	1 MTD W/OTHERS	2.00	2.00
W16-7p(L)S	24"	12"					4	FLUOR- ESCENT YELLOW- GREEN	BLACK	BLACK	3 MTD W/OTHERS 1 MTD ON LP	2.00	8.00
W16-7p(R)	24"	12"					1	YELLOW	BLACK	BLACK	1 MTD W/OTHERS	2.00	2.00
W16-9p	24"	12"					1	YELLOW	BLACK	BLACK	1 MTD W/OTHERS	2.00	2.00
W16-9pS	24"	12"					3	FLUOR- ESCENT YELLOW- GREEN	BLACK	BLACK	3 MTD W/OTHERS	2.00	6.00
H1-2	24"	24"		AS PER MASSDOT STANDARDS			1	YELLOW	YELLOW CLUSTER	-- --	P5-1	POST & PANEL PAID UNDER ITEM 827.21	
M1-1(91)	36"	36"		SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED			1	RED/ BLUE	WHITE	WHITE	P5-1	9.00	9.00
M3-3	24"	12"					1	BLUE	WHITE	WHITE	1 MTD W/OTHER	2.00	2.00
M4-5	24"	12"					1	BLUE	WHITE	WHITE	1 MTD W/OTHER	2.00	2.00
M5-1R	21"	15"					1	BLUE	WHITE	WHITE	1 MTD W/OTHER	2.19	2.19
S1-1	30"	30"					7	FLUOR- ESCENT YELLOW- GREEN	BLACK	BLACK	P5-6 1 MTD ON LP	6.25	43.75
S4-3P	24"	8"					1	FLUOR- ESCENT YELLOW- GREEN	BLACK	BLACK	1 MTD W/OTHER	1.33	1.33
S4-2	24"	10"					1	FLUOR- ESCENT YELLOW- GREEN	BLACK	BLACK	1 MTD W/OTHER	1.67	1.67
D3-1	VARIES	12"		6/4.5 3/2.25	3 3	N/A	11	GREEN	WHITE	WHITE	3 MTD ON TS POLE 8 MTD W/OTHERS	PAID UNDER ITEM 874	
D3-2	VARIES	12"		6/4.5 3/2.25	3 3	N/A	1	GREEN	WHITE	WHITE	1 MTD W/OTHERS	PAID UNDER ITEM 874	

IDENTIFI- CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR			POST SIZE AND NUMBER REQUIRED	UNIT AREA (S.F.)	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK- GROUND	LEGEND	BORDER			
D3-3	VARIES	12"		6/4.5 3/2.25	3 3	N/A	2	GREEN	WHITE	WHITE	P5-1 1 MTD W/OTHERS	PAID UNDER ITEM 874	10,000
D3-4	VARIES	12"		6/4.5 3/2.25	3 3	N/A	1	GREEN	WHITE	WHITE	1 MTD ON TS POLE	PAID UNDER ITEM 874	
D3-5	VARIES	12"		6/4.5 3/2.25	3 3	N/A	2	GREEN	WHITE	WHITE	1 MTD ON TS POLE 1 MTD W/OTHERS	PAID UNDER ITEM 874	
D3-6	VARIES	12"		6/4.5 3/2.25	3 3	N/A	2	GREEN	WHITE	WHITE	1 MTD W/OTHERS	PAID UNDER ITEM 874	
D3-7	VARIES	12"		6/4.5 3/2.25	3 3	N/A	1	GREEN	WHITE	WHITE	1 MTD W/OTHERS	PAID UNDER ITEM 874	
D3-8	VARIES	12"		6/4.5 3/2.25	3 3	N/A	2	GREEN	WHITE	WHITE	P5-1 1 MTD W/OTHERS	PAID UNDER ITEM 874	
D3-9	VARIES	12"		6/4.5 3/2.25	3 3	N/A	1	GREEN	WHITE	WHITE	P5-1	PAID UNDER ITEM 874	
D3-10	VARIES	12"		6/4.5 3/2.25	3 3	N/A	1	GREEN	WHITE	WHITE	1 MTD W/OTHERS	PAID UNDER ITEM 874	
D3-11	VARIES	12"		6/4.5 3/2.25	3 3	N/A	1	GREEN	WHITE	WHITE	P5-1	PAID UNDER ITEM 874	
D3-12	VARIES	12"		6/4.5 3/2.25	3 3	N/A	1	GREEN	WHITE	WHITE	1 MTD W/OTHERS	PAID UNDER ITEM 874	
D3-13	VARIES	12"		6/4.5 3/2.25	3 3	N/A	1	GREEN	WHITE	WHITE	P5-1	PAID UNDER ITEM 874	
D3-14	VARIES	12"		6/4.5 3/2.25	3 3	N/A	1	GREEN	WHITE	WHITE	P5-1	PAID UNDER ITEM 874	
D3-15	VARIES	12"		6/4.5 3/2.25	3 3	N/A	1	GREEN	WHITE	WHITE	1 MTD ON LP	PAID UNDER ITEM 874	
D3-16	VARIES	12"		6/4.5 3/2.25	3 3	N/A	1	GREEN	WHITE	WHITE	P5-1	PAID UNDER ITEM 874	
D3-17	VARIES	12"		6/4.5 3/2.25	3 3	N/A	3	GREEN	WHITE	WHITE	2 MTD W/OTHERS 1 MTD ON LP	PAID UNDER ITEM 874	
D3-18	VARIES	12"		6/4.5 3/2.25	3 3	N/A	1	GREEN	WHITE	WHITE	1 MTD ON ON TS POLE	PAID UNDER ITEM 874	
D3-19	VARIES	12"		6/4.5 3/2.25	3 3	N/A	1	GREEN	WHITE	WHITE	1 MTD ON ON TS POLE	PAID UNDER ITEM 874	

- NOTES:
1. SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION" FOR TEXT DIMENSIONS, AS AMENDED; THE MASSHIGHWAY DEPARTMENT SIGN LISTINGS 1993 EDITION, AS AMENDED..
2. ALL PROPOSED REGULATORY AND WARNING SIGNS SHALL BE 0.08" ALUMINUM WITH HIGH INTENSITY PRISMATIC REFLECTIVE SHEETING.

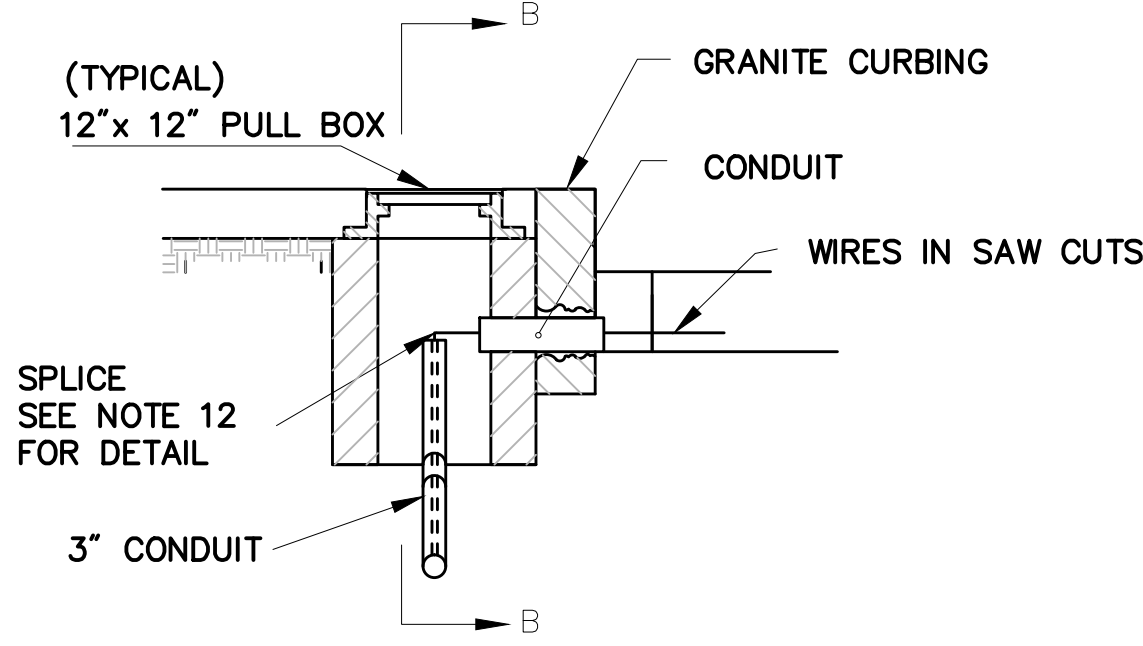


PLAN OF SEGMENTED DETECTOR DETAIL
NOT TO SCALE

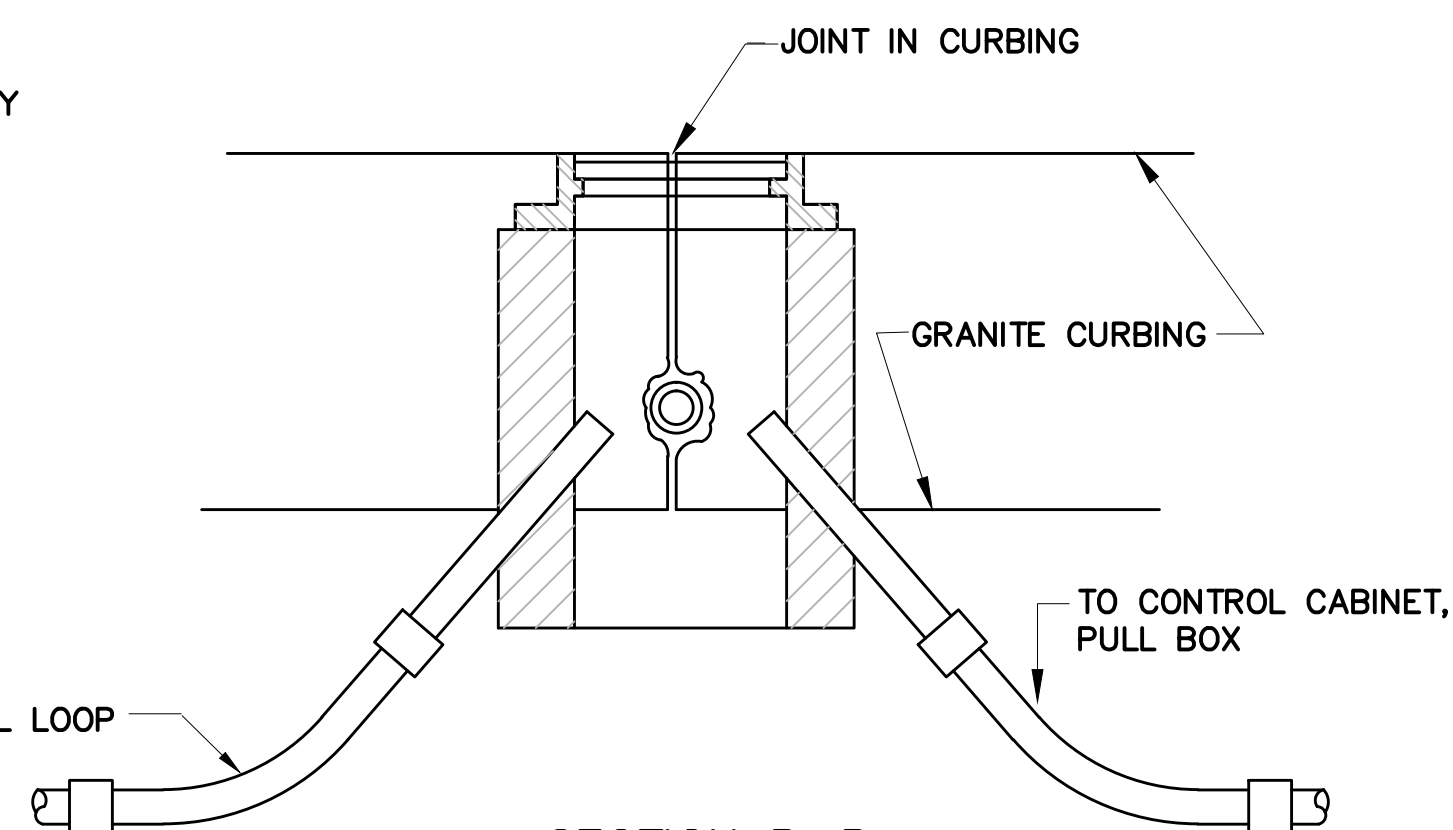
* OFFSETS FROM CURB TO LOOP AND EDGE OF LANE TO LOOP EQUAL IF NOT SHOWN.

NUMBER AND SIZE OF SECTIONS AND LENGTH OF DETECTION AREA VARIES SEE TRAFFIC CONTROL AND CONSTRUCTION PLANS.

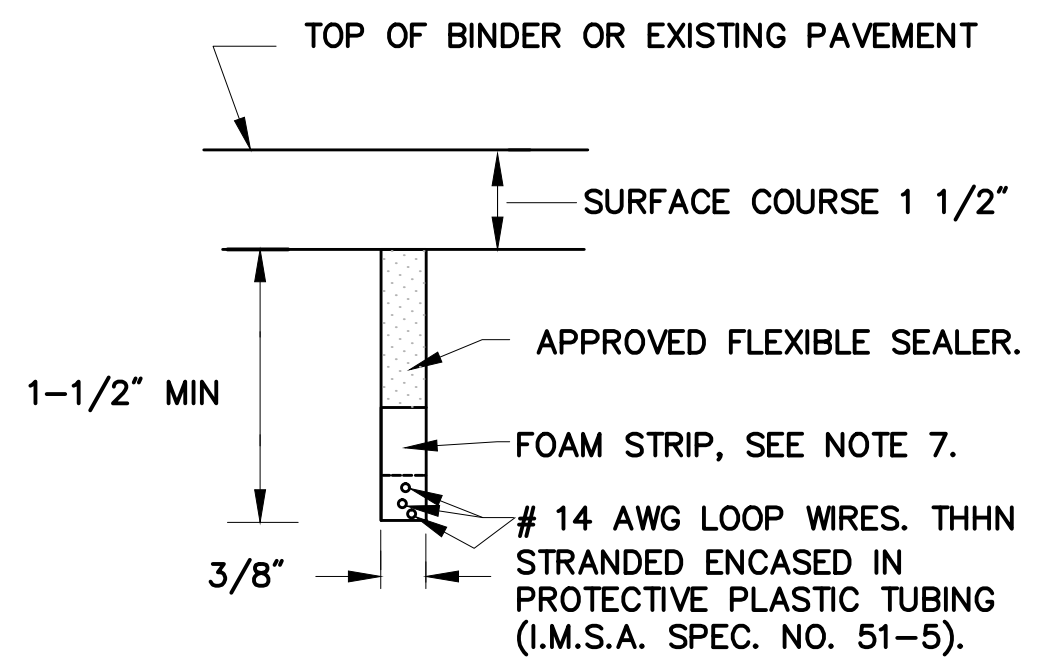
TYPICAL SHOWN DIMENSIONS MAY VARY SEE PLANS FOR VARIATIONS



SECTION A-A
NOT TO SCALE

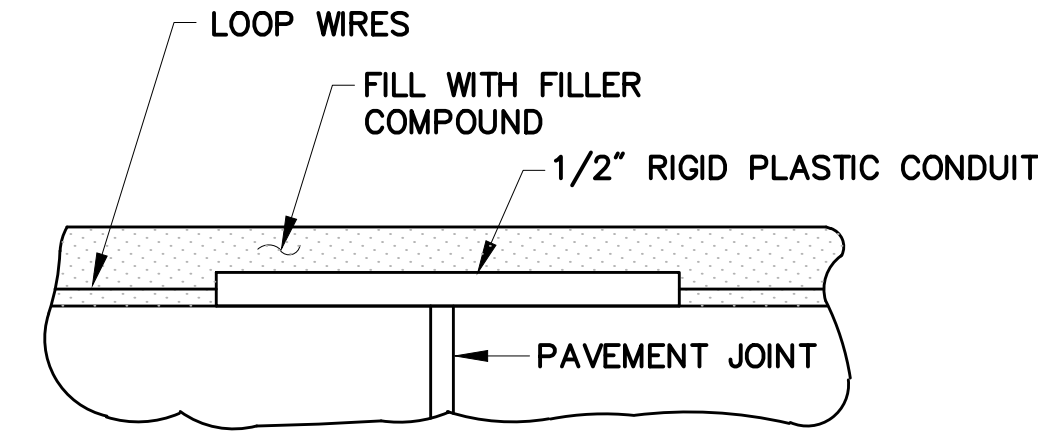


SECTION B-B
NOT TO SCALE



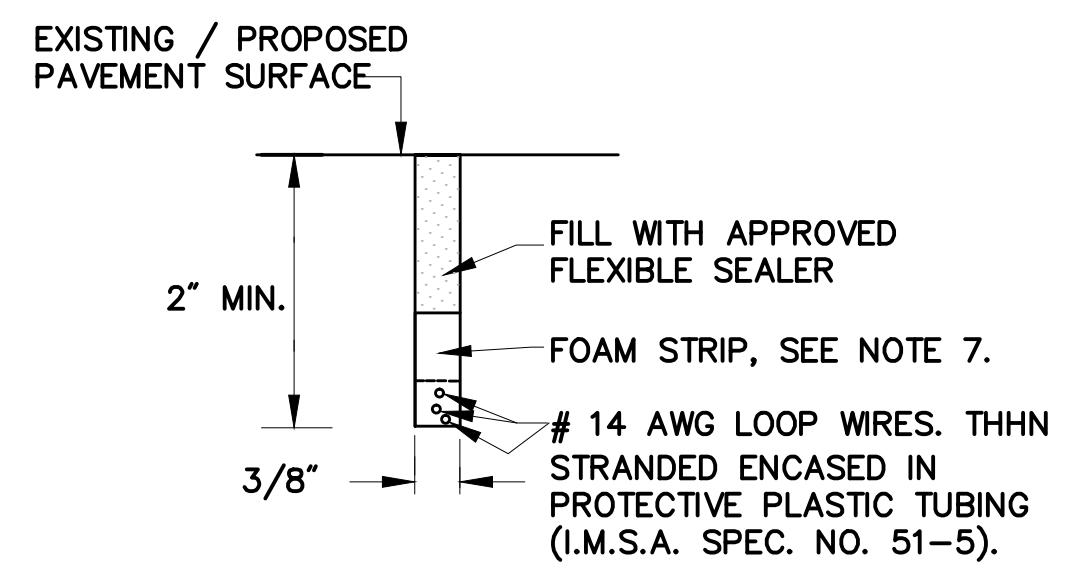
SECTION C-C & D-D

LOOPS IN BINDER COURSE OR EXISTING PAVEMENT TO BE RESURFACED
NOT TO SCALE



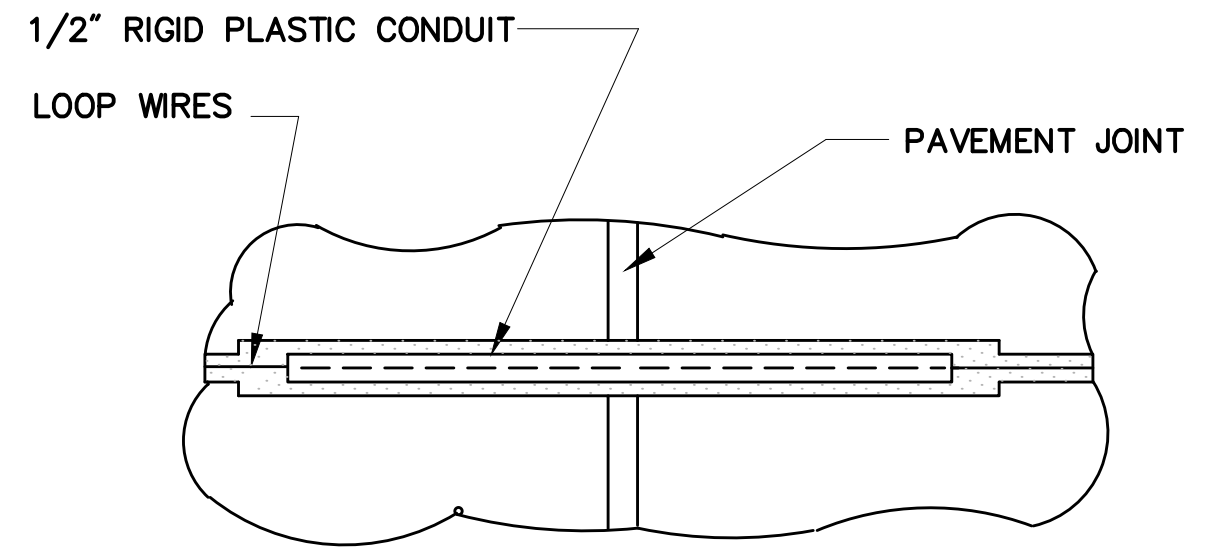
VERTICAL SECTION

TREATMENT AT PAVEMENT JOINTS
NOT TO SCALE



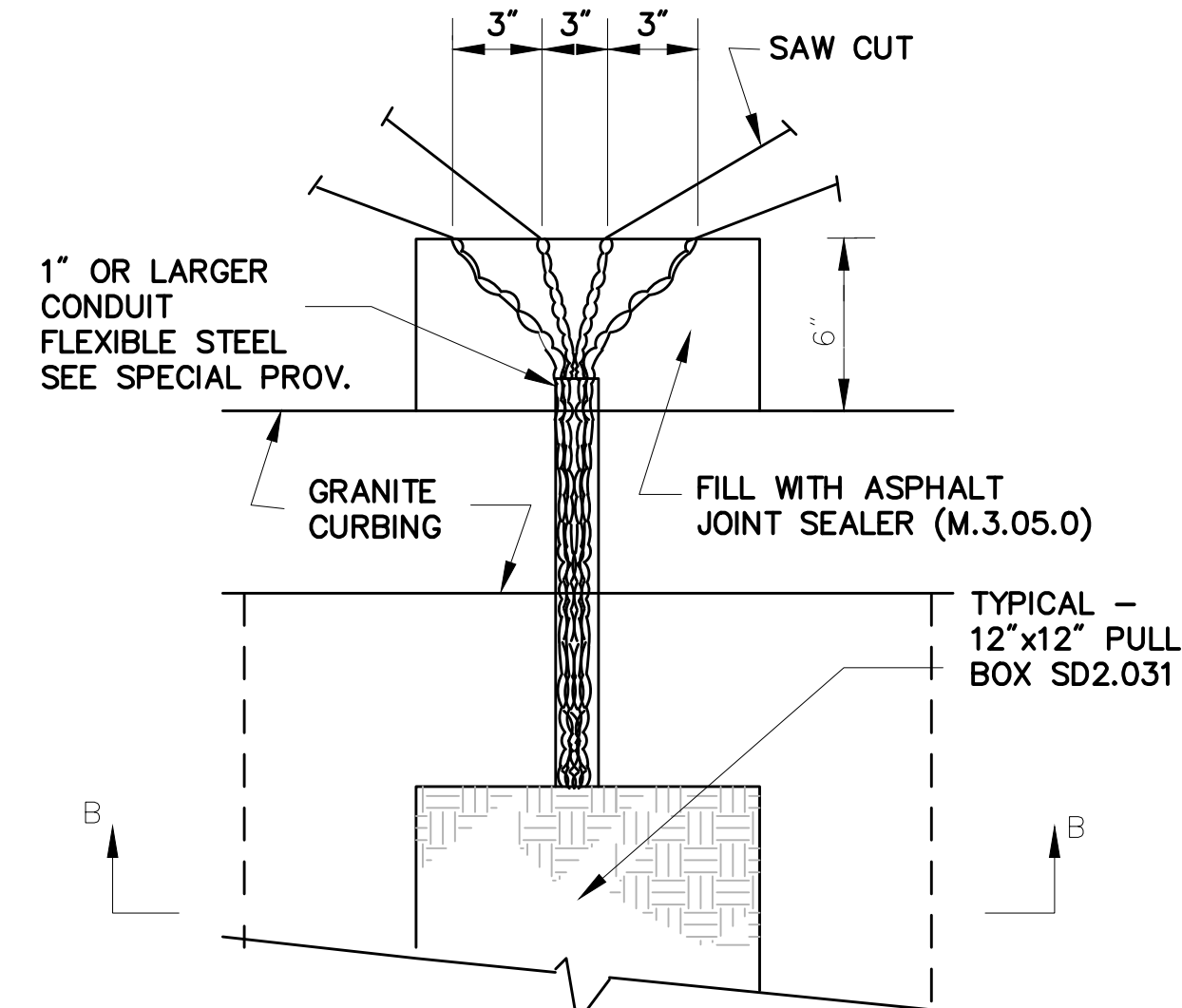
SECTION C-C & D-D

LOOPS IN SURFACE COURSE
NOT TO SCALE



PLAN

TREATMENT AT PAVEMENT JOINTS
NOT TO SCALE



DETAIL - PLAN VIEW

NOT TO SCALE

SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	83	145
PROJECT FILE NO. 605222			

LOOP DETECTOR DETAILS

DETECTOR NOTES

1. IN HANDHOLE, SPLICE ALL SEGMENTS TO TYPE II-SHIELDED LOOP DETECTOR DETECTOR LEAD-IN CABLE. SEGMENTS SHALL BE SPLICED IN PARALLEL, IN SERIES, OR IN A COMBINATION OF PARALLEL & SERIES AS SHOWN ON THE PLAN SHEET FOR EACH DETECTOR. NUMBER OF TURNS OF WIRE SHALL ALSO BE AS SHOWN ON THE PLAN SHEET FOR EACH DETECTOR. SEE NOTE 12.
 2. SEE SPECIAL PROVISIONS FOR REQUIREMENTS OF DETECTOR AMPLIFIER
 3. LEAD IN WIRES SHALL BE TWISTED FROM SEGMENT TO SPLICE WITH SHIELDED CABLE FIVE TURNS PER FOOT. LEAD-IN SHALL BE TYPE II (M8. 16. II).
 4. BEFORE STARTING ANY SPLICING, THE ELECTRICAL CONTRACTOR SHALL FURNISH DATA SHEETS ON THE MATERIALS AND/OR METHODS TO BE USED IN ACCORDANCE WITH THE DEPARTMENTS STANDARD OPERATING PROCEDURES FOR APPROVAL OF SHOP DRAWINGS SEE SECTION 815.64, ESPECIALLY PARAGRAPH 1.
 5. THE METALLIC SHIELD WHICH SHALL ENCASE THE DETECTOR LEADS FROM A SPLICE (TYPICALLY LOCATED IN A PULL BOX NEAR THE ROADWAY COMPONENT OF THE DETECTOR) THE METALLIC SHIELD WHICH SHALL INCASE THE DETECTOR LEADS FROM A SPLICE (TYPICALLY LOCATED IN A PULL BOX NEAR THE ROADWAY COMPONENT OF THE DETECTOR) OT THE CONTROLLER, AND THE DRAIN WIRE UNDER THE METALLIC SHIELD, SHALL NOT BE GROUNDED TO THE EARTH GROUNDING BUSS IN THE CONTROLLER, AND THE SHIELD AND DRAIN WIRE SHALL BE CAREFULLY INSULATED FROM THE TRANSFORMER NEUTRAL OR FROM EARTH GROUND AT ALL POINTS ALONG ITS LENGTH. SPECIFICALLY, THIS INCLUDES CAREFUL INSULATION OF THE EXPOSED PORTION OF THE SHIELD AND THE AND THE DRAIN WIRE AT THE END AWAY FROM THE CONTROLLER WHERE IT IS SPLICED TO WIRES LEADING TO THE ROADWAY COMPONENT OF THE DETECTOR. THIS IS IMPORTANT TO AVOID A GROUND RETURN LOOP.
 6. FILL ALL CONDUIT OPENINGS WITH DUCT SEAL.
 7. AFTER SAW CUTS ARE COMPLETE, BLOW OUT WATER WITH OIL - FREE COMPRESSED AIR UNTIL CUTS ARE CLEAN AND DRY. INSERT WIRE INTO CLEAN SLOT WITH A BLUNT, SMOOTH, ROUND EDGED TOOL OF WOOD OR PLASTIC SUCH AS A PAINT STIRRER. DO NOT USE A SCREWDRIVER, THEN INSERT FOAM PLASTIC HOLD DOWN STRIPS, SIMILAR TO ETHA FOAM SB.STRIPS SHALL BE ABOUT 2" LONG, PLACED IN THE SLOT ABOUT EVERY 2 FEET THEN POUR SEALER, TAKING CARE TO ELIMINATE BUBBLES.
 8. THE COMBINED ROADWAY LOOP, TWISTED LEAD-IN WIRES, SPLICE AND SHIELDED LEAD-IN CABLE SHALL HAVE A RESISTANCE TO GROUND OF AT LEAST 100 MEGOHMS. SEE SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS.
 9. FOR INSTALLATION OF SINGLE (ONE SEGMENT) SMALL WIRE LOOP DETECTOR.DETAIL IS THE SAME
 10. CUT LOOPS IN BINDER AND FILL WITH APPROVED FLEXIBLE SEALER.
 11. DETECTOR WIRE SHALL BE A DIFFERENT COLOR FOR EACH SEGMENT OF A DETECTOR GROUP. SEE DETAIL
 12. SPLICING PATTERN P = SERIES/PARALLEL: SPLICE SEGMENTS 1 AND 3 OF AN INDIVIDUAL DETECTOR IN SERIES. SPLICE SEGMENTS 2 AND 4 IN SERIES. SPLICE THE RESULTANT TWO GROUPS IN PARALLEL. SPLICE THE RESULTANT COMBINATION TO ONE LEAD-IN CABLE. CONNECT THIS CABLE TO AN OTHERWISE UNUSED AMPLIFIER CHANNEL.
- SPLICING PATTERN S = SERIES: SPLICE ALL SEGMENTS (TYPICALLY FOUR, BUT MAY BE LESS) OF AN INDIVIDUAL DETECTOR IN SERIES. SPLICE THE RESULTANT COMBINATION TO ONE LEAD-IN CABLE TO AN OTHERWISE UNUSED AMPLIFIER CHANNEL.

THIS PLAN NOT DESIGNED BY
VANASSE HANGEN BRUSTLIN, INC.
IT WAS PROVIDED BY THE MASSACHUSETTS DEPT.
OF TRANSPORTATION AND ALL INFORMATION
CONTAINED HEREIN IS ASSUMED TO BE CORRECT.

SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	84	145
PROJECT FILE NO. 605222			

BICYCLE LOOP DETECTOR DETAILS

NOTES:

- REFER TO VEHICLE LOOP DETECTOR DETAIL SHEET FOR ADDITIONAL NOTES AND CONSTRUCTION DETAILS.
- ALL DETAILS ARE GRAPHICAL WITH NO SCALE.
- THE NUMBER, SIZE, LOCATION AND LENGTH OF DETECTION AREA VARIES AND SHALL BE DETERMINED BY THE DESIGNER REFER TO TRAFFIC SIGNAL PLAN.
- BICYCLE LOOPS SHALL BE CONNECTED TO SEPARATE LOOP DETECTOR AMPLIFIERS CAPABLE OF HIGHER LEVELS OF SENSITIVITY.
- BICYCLE LOOPS SHALL BE INSTALLED IN THE BASE COURSE OF EXISTING PAVEMENT. THE EXISTING PAVEMENT SHALL BE COLD PLANNED TO THE BASE COURSE AND SAWCUT FOR LOOP INSTALLATION.
- SIGNS AND PAVEMENT MARKINGS SHALL BE INSTALLED FOR ALL BICYCLE DETECTORS TO INFORM CYCLISTS OF THE DETECTION AREA.
- OFFSETS FROM LANE LINE EQUAL UNLESS OTHERWISE NOTED. SEE PLANS.
- TYPE Q DETECTORS SHALL BE WIRED IN A FIGURE EIGHT PATTERN WITH A DOUBLE LAYER DESIGN ("2-4-2") WITH 2 TURNS IN THE PERIMETER SLOTS AND 4 TURNS IN THE CENTER SLOT AS SHOWN IN THE WINDING DETAIL.
- BICYCLES WILL BE DETECTED WITHIN 4 IN. OF THE INTERIOR LONGITUDINAL LOOP WIRES FOR TYPE Q AND D-Q DETECTORS.
- PROVIDE 3 TURNS FOR TYPE D-1 DETECTORS.
- INSTALL 2 LAYERS OF WIRE WOUND IN THE SAME DIRECTION IN BOTH LAYERS FOR TYPE D-2 DETECTORS. THE RESULT IS 4 TURNS IN EACH DIAGONAL.
- RIGHT JUSTIFIED LOOP DETECTORS SHALL BE CONSIDERED FOR THE FOLLOWING CONDITIONS:
 - BICYCLE STOPPING ON THE RIGHT SIDE OF A THRU TRAVEL LANE.
 - BICYCLE STOPPING ON THE RIGHT SIDE OF AN EXCLUSIVE LEFT TURN LANE.
- LEFT JUSTIFIED LOOP DETECTORS SHALL BE CONSIDERED FOR THE FOLLOWING CONDITIONS:
 - BICYCLE STOPPING ON THE LEFT SIDE OF A SHARED LEFT/THRU LANE.
 - BICYCLE STOPPING JUST TO THE RIGHT OF THE CENTERLINE WHEN TURNING LEFT ON A TWO-LANE ROADWAY.
- RECTANGULAR LOOP DETECTORS SHALL BE CONSIDERED FOR BICYCLES STOPPING ON EITHER THE LEFT OR RIGHT SIDE OF A TWO-LANE ROADWAY. THE MINIMUM OFFSET FROM LANE LINE OR CURB LINE SHALL BE 1.0 FT.
- PAVEMENT CORES OR TEST PITS MAY BE REQUIRED TO DETERMINE THE DEPTH OF EXISTING PAVEMENT AND CONFIRM THAT THE DETECTION OPTION CHOSEN AND CORRESPONDING WINDING PATTERN CAN BE ACCOMMODATED.
- THESE DETAILS APPLY TO BICYCLE LOOPS INSTALLED IN ROADWAYS. PUSH BUTTON ACTUATION SHALL BE CONSIDERED FOR RECREATIONAL BIKE PATHS.
- THE MINIMUM DIMENSION FOR L SHALL BE 6 FT MIN. FOR DETECTORS TYPE D-Q, D-1 & D-2. FINAL DIMENSIONS SHALL BE DETERMINED BY THE DESIGN ENGINEER.

SIGN R10-22

18 IN

TO REQUEST GREEN
WAIT ON

2.5 'B'
2.5 'B'
3.7
2.5 'B'
2.5 'B'

2.25
1.9
1.5
0.8
7
0.8
1.5
0.8

SIGN BORDER: R=1.5, TH=0.5, INS=.38

WHITE BACKGROUND
BLACK LEGEND AND LINES

NOTE: ALL SIGN DIMENSIONS IN INCHES
NOTE: SIGN PANEL NOT SHOWN TO SCALE

SECTION THRU LOOP DETECTOR

TOP OF PROPOSED PAVEMENT

SURFACE COURSE 1.5 IN

APPROVED FLEXIBLE SEALER

FOAM STRIP

#14 AWG LOOP WIRES THHN STRANDED ENCASED IN PROTECTIVE PLASTIC TUBING (I.M.S.A. SPEC. NO. 51-5)

(VARIES SEE TABLE)

SAWCUT SLOT DEPTH GUIDE		
TURNS OF WIRE	SLOT SIZE	
	DEPTH (IN)	WIDTH (IN)
1	1.5	0.5
2	1.5	0.5
3	1.5	0.5
4	2.0	0.5
5	2.0	0.5
6	2.0	0.5
7	2.0	0.5
8	2.0	0.5

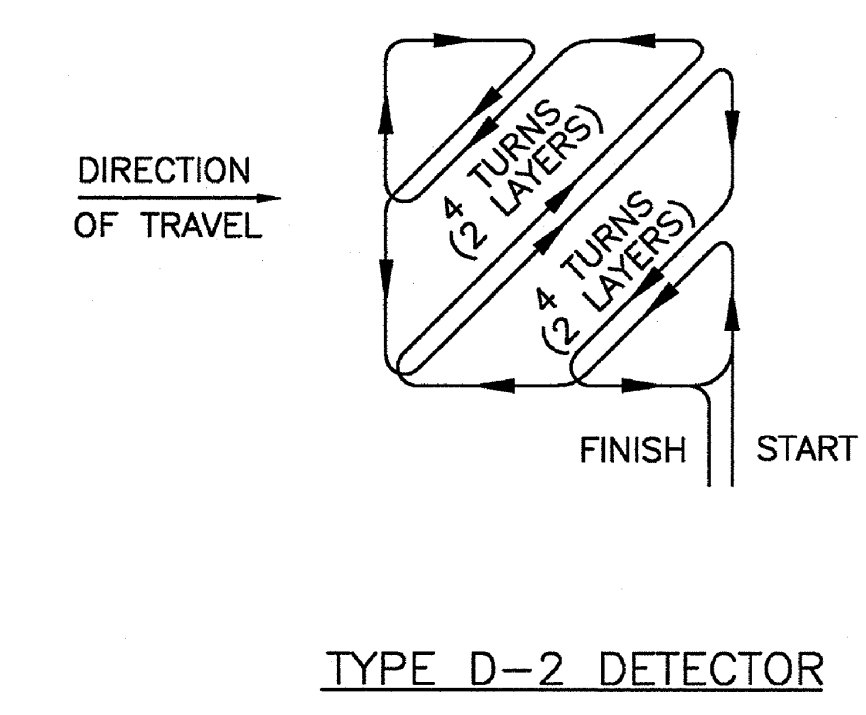
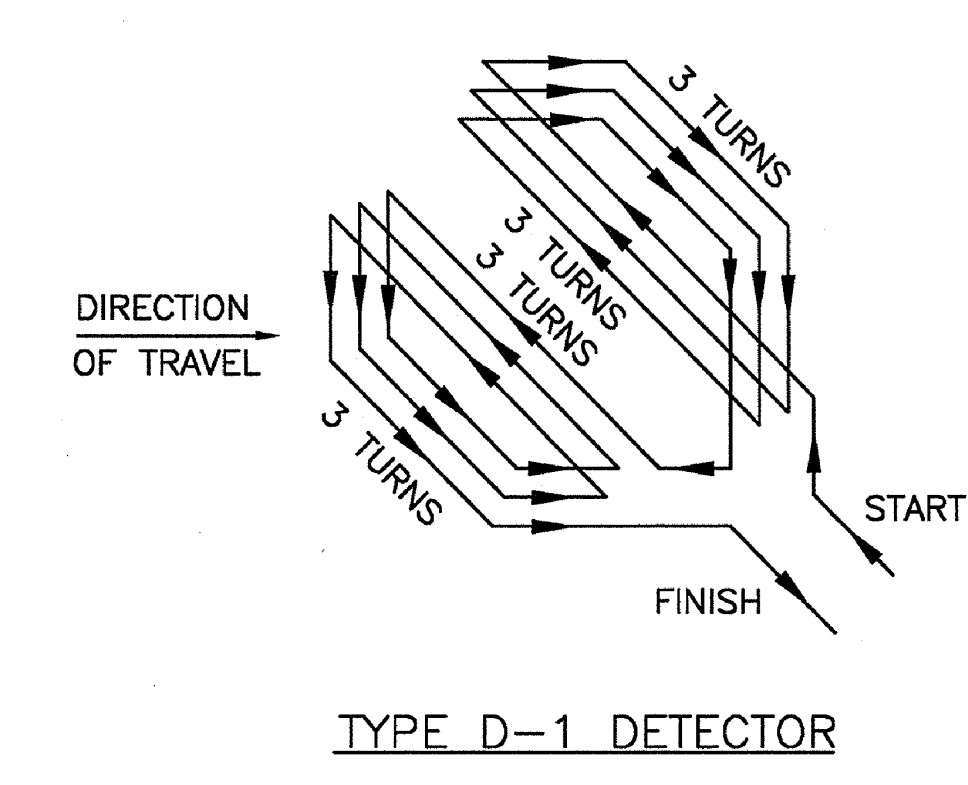
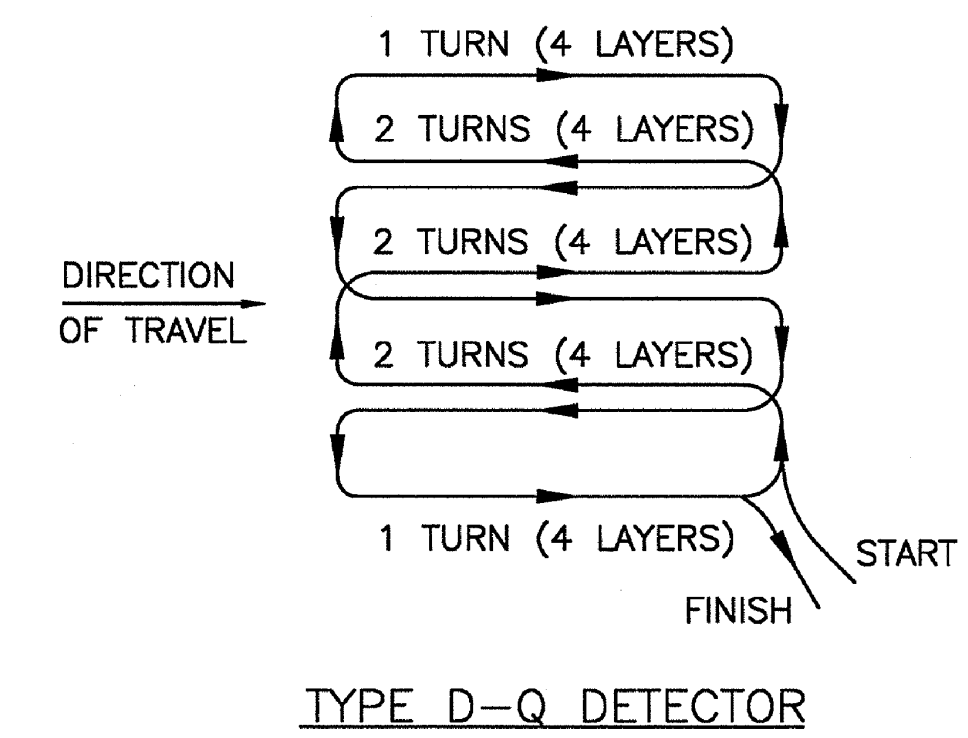
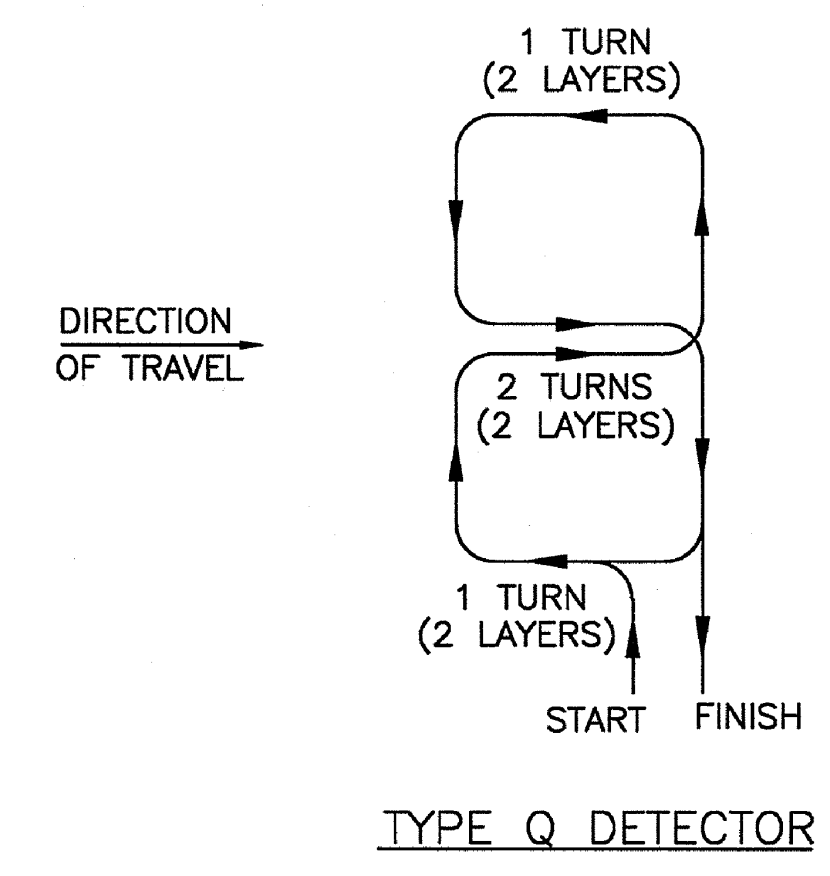
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NOTE: REVISED FEBRUARY 22, 2006

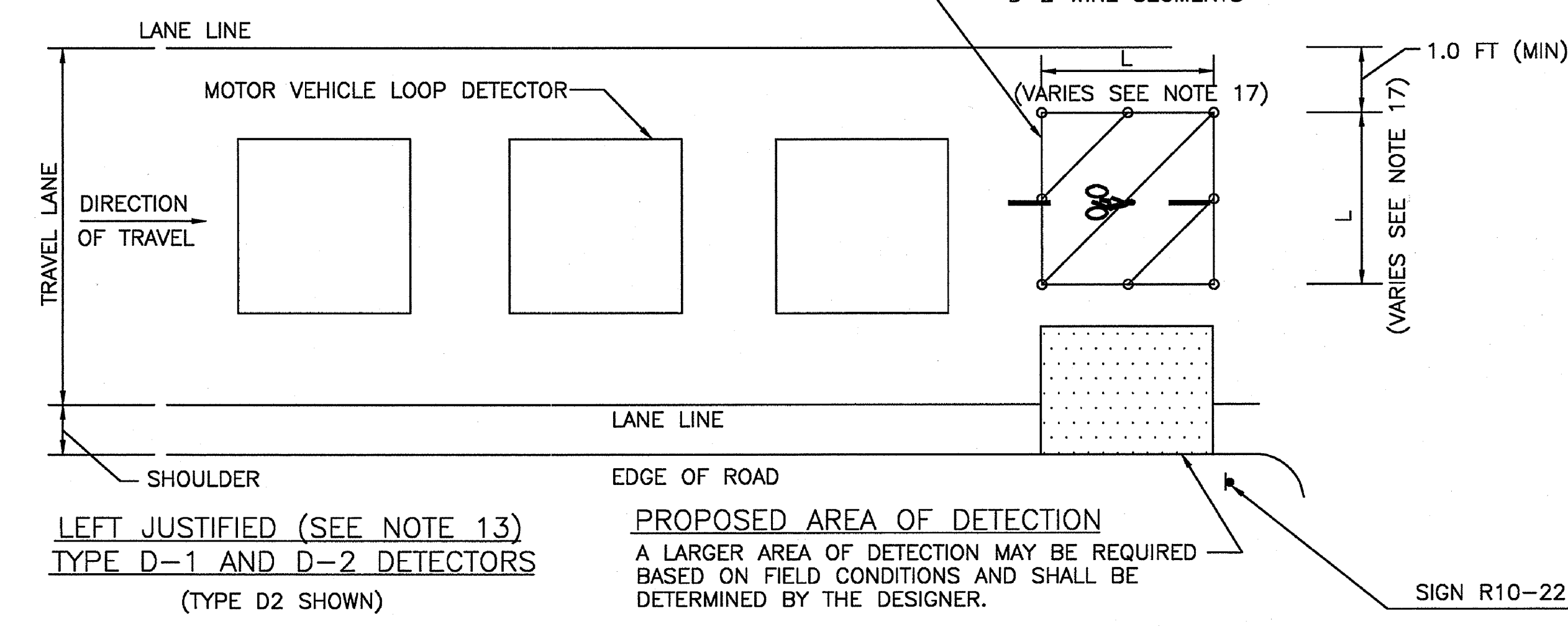
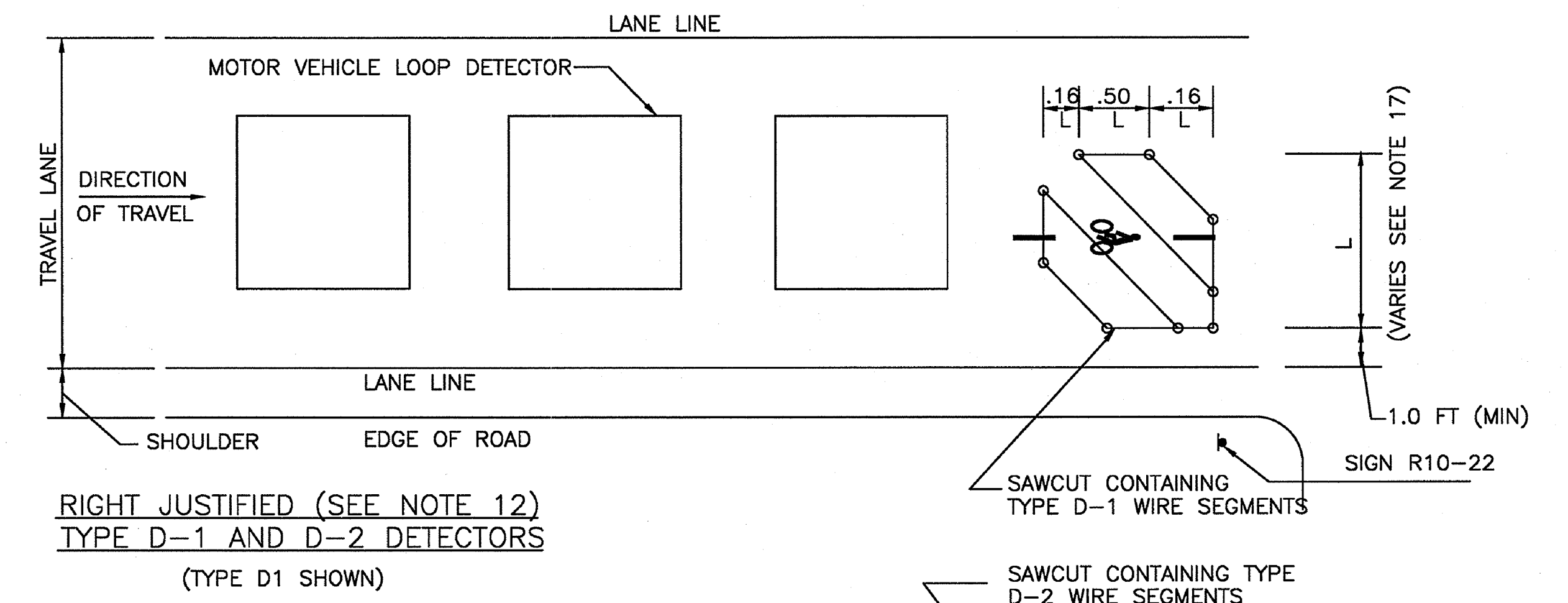
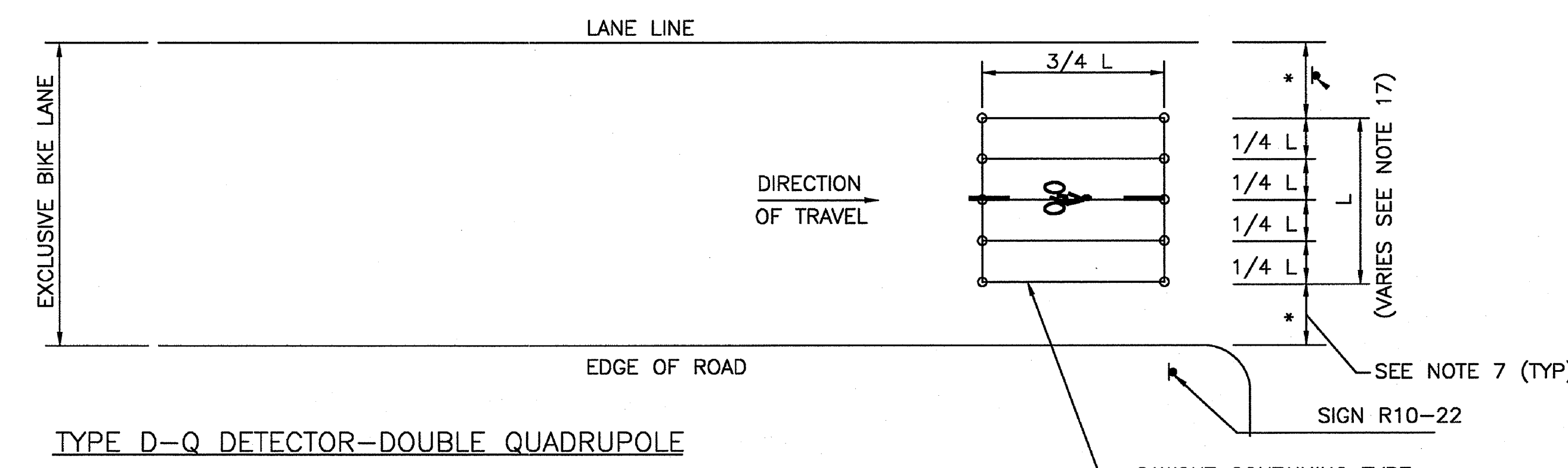
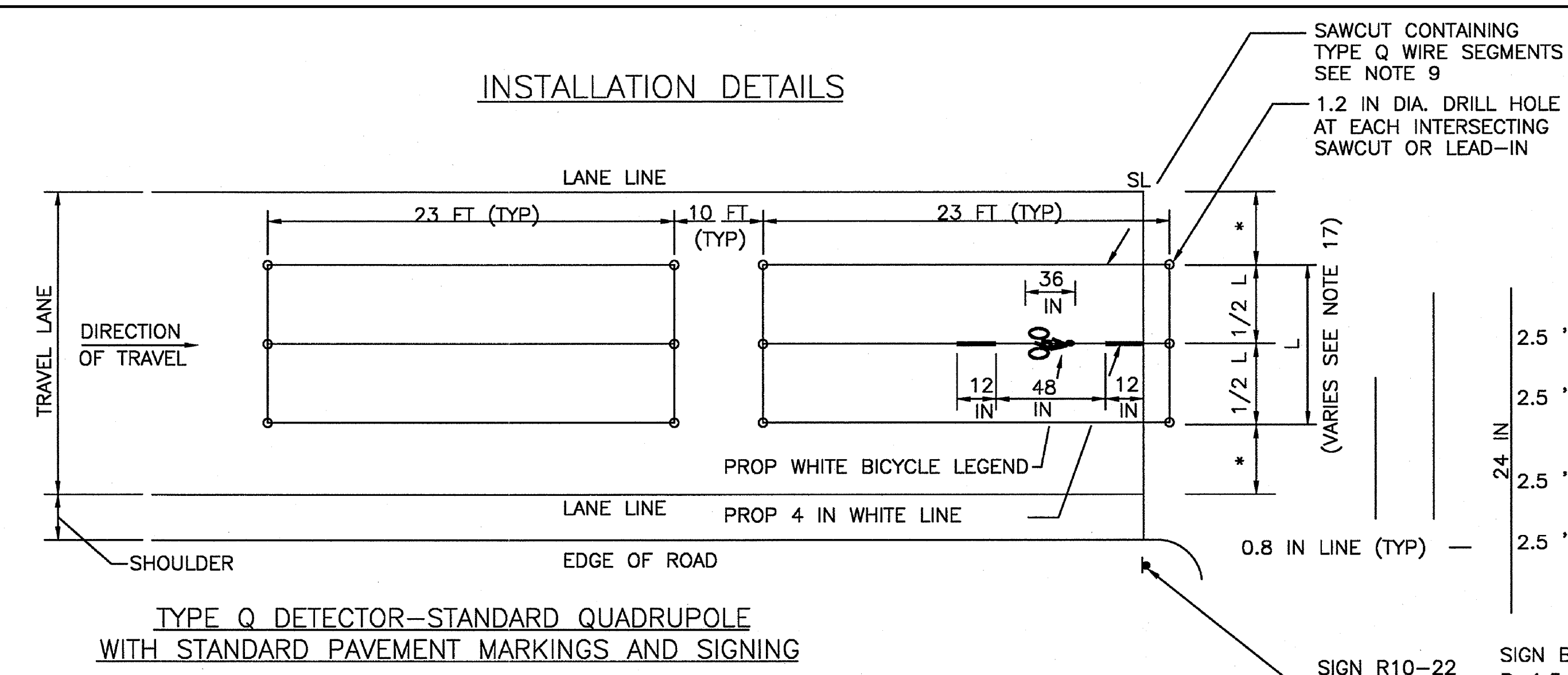


MASSACHUSETTS HIGHWAY DEPARTMENT
TRAFFIC ENGINEERING
REVISED FEBRUARY 22, 2006

WINDING DETAILS



INSTALLATION DETAILS



INDEX

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
1	Title Sheet
2	Light, Medium & Short Span Load Diagrams
3	Heavy Load Diagrams
4	Details
5	Cored Pier Foundations

THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION, HIGHWAY DIVISION 1988 STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, THE ENGLISH EDITION OF SUPPLEMENTAL SPECIFICATIONS DATED JUNE 6, 2006, THE AMENDMENTS TO THE STANDARD AND SUPPLEMENTAL SPECIFICATIONS, THE 1977 CONSTRUCTION STANDARDS, THE ENGLISH EDITION OF SUPPLEMENTAL DRAWINGS DATED APRIL 2003, THE 2001 "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS" WITH LATEST REVISIONS, THE 2003 "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" WITH LATEST REVISIONS, THE 1990 "STANDARD DRAWINGS FOR SIGNS AND SUPPORTS," AND THE 2004 EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, WILL GOVERN.

MAST ARM & FOUNDATION

Details Standard Drawings

NOTES

1. For these standard drawings the Design Wind Speed for all Mast Arm Structures shall be **130 MPH**.
2. For these standard drawings the Design Wind Speed for mast arm foundations located in the following counties: Plymouth, Bristol, Barnstable, Dukes, and Nantucket counties in District 5 and Berkshire county in District 1 shall be **130 MPH**. The design wind speed for mast arm foundations for the remainder of the state shall be **110 MPH**.
3. For these standard drawings the mast arm structure design life shall be 25 years.
4. For these standard drawings the Fatigue Category no. 2 was used and truck induced gusts were excluded in the design.
5. These standard drawings do not apply for mast arm structures at intersections with an ADT greater than 40,000 vehicles and a truck percentage of greater than 10%. The responsibility for the design of mast structures and foundations will rest with the design engineer. The structure design life will be 50 years and the fatigue category shall be no. 1. The design wind speed criteria shall be as shown in Notes Nos. 1 & 2. The design will be submitted to MassDOT for review and comment.
6. For strain pole, dual mast arm designs, or mast arms longer than 45 feet, notes 1, 2, 3 and 4 will apply, if ADT (>40,000 vehicles) and truck percentage (10%) criterion is met, note 5 design criteria (50 year design life, fatigue category no. 1, wind design speed notes 1 and 2) will apply. The responsibility for the design of these structures and foundations will rest with the design engineer. The design will be submitted to MassDOT for review and comment.

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VANASSE HANGEN BRUSTLIN, INC.
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AND ALL INFORMATION CONTAINED
HEREIN IS ASSUMED TO BE CORRECT.

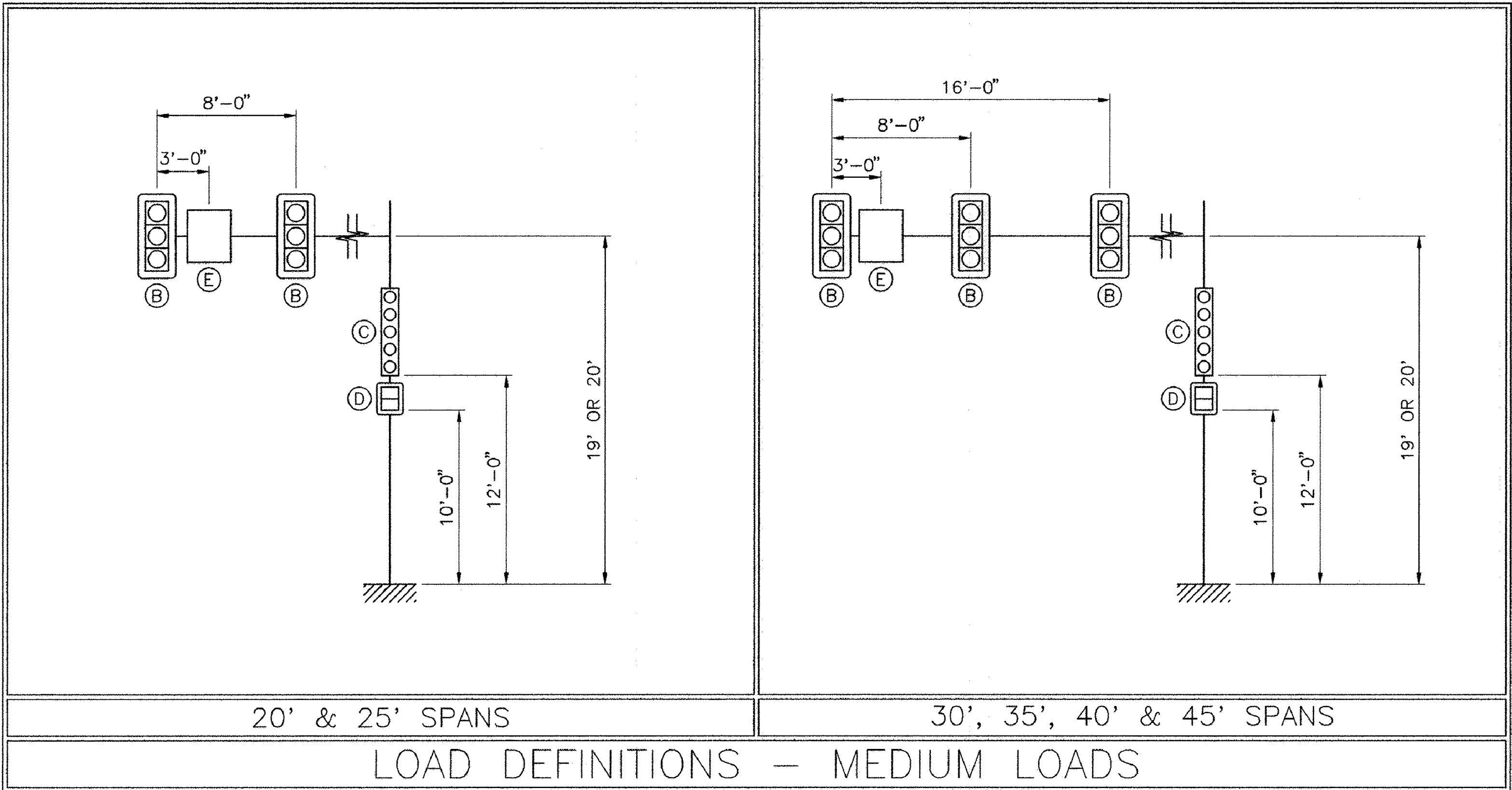
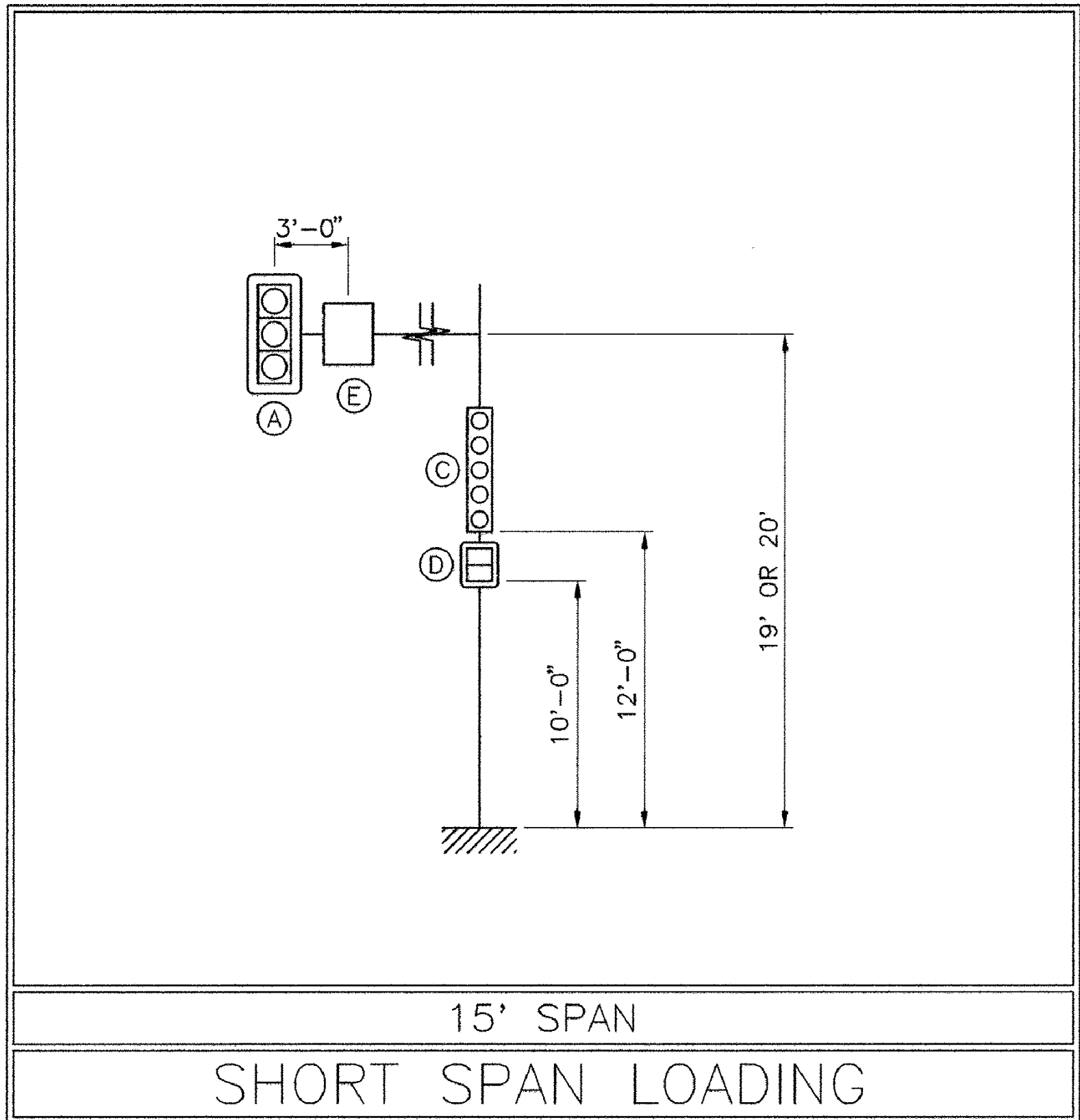
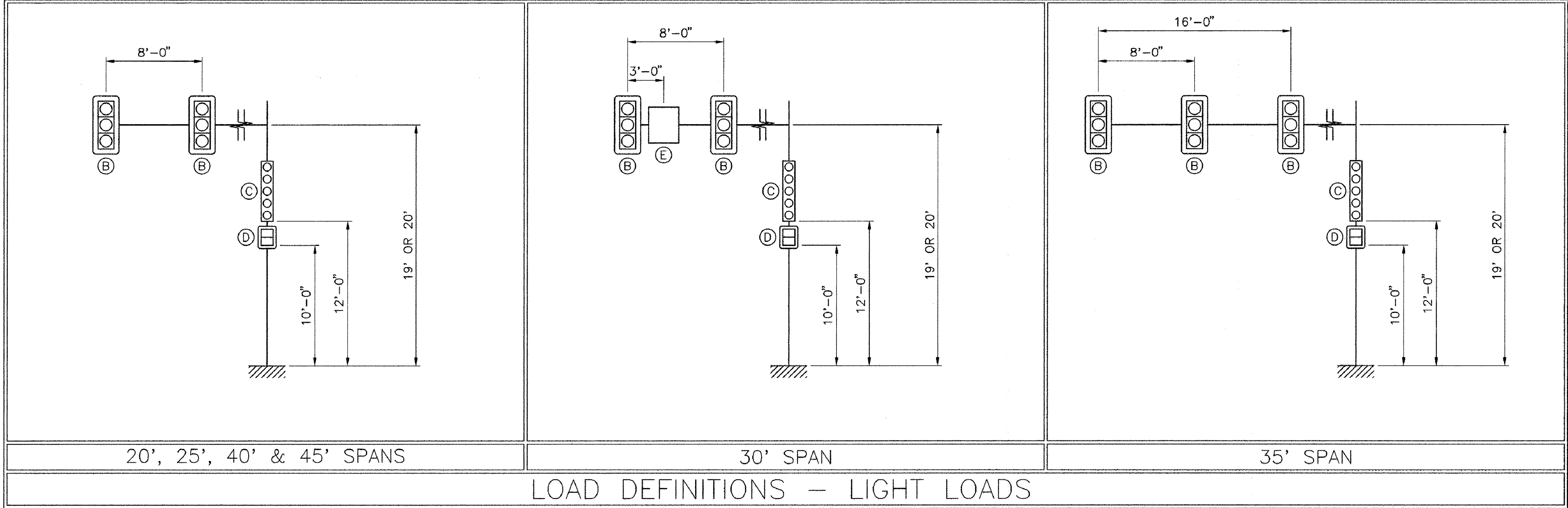
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SPRINGFIELD
NORTH END/BRIGHTWOOD – NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	86	145

PROJECT FILE NO. 605222

MAST ARM DETAILS



DEVICE	DESCRIPTION	PROJ. AREA (FT~2)	WEIGHT (LBS)
(A)	3 SECTION, 3 WAY SIGNAL	13.50	202
(B)	3 SECTION, 1 WAY SIGNAL	8.67	74
(C)	5 SECTION, 1 WAY SIGNAL	13.33	110
(D)	DUAL PEDESTRIAN SIGNAL	8.00	80
(E)	30" X 36" REGULATORY SIGN	7.50	23

NOTE: ALL SIGNALS HAVE 5.0" BACKPLATES

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VANASSE HANGEN BRUSTLIN, INC.
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HEREIN IS ASSUMED TO BE CORRECT.

MONTH_DD_YYYY

ISSUED FOR CONSTRUCTION

STANDARD DRAWINGS

TYPE II MAST ARMS
LIGHT, MEDIUM & SHORT SPAN
LOAD DIAGRAMS

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
HIGHWAY DIVISION
10 PARK PLAZA BOSTON, MASS

CHIEF ENGINEER

BRIDGE ENGINEER

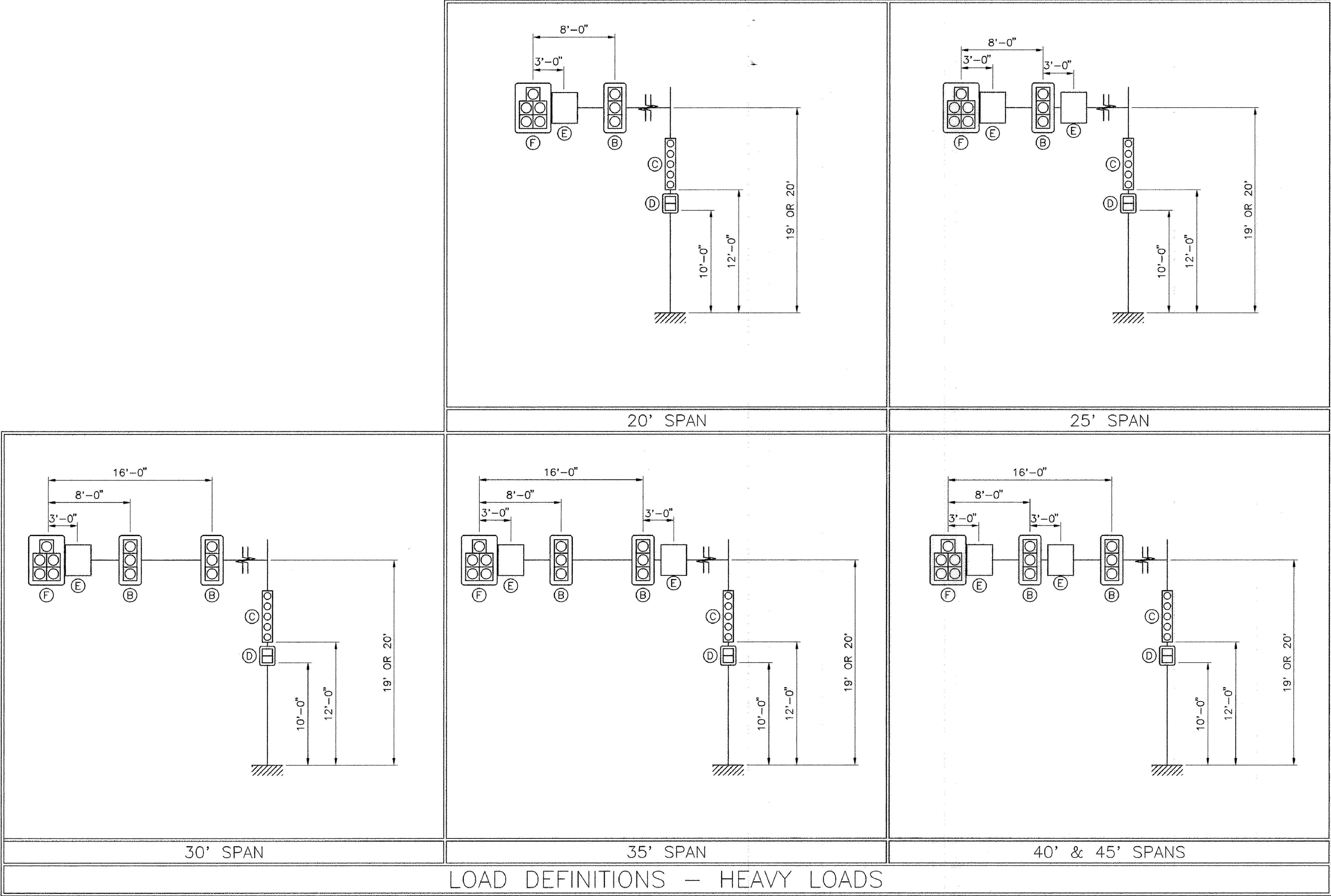
TRAFFIC ENGINEER

SHEET 2 OF 5 SHEETS

SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	87	145
PROJECT FILE NO. 605222			

MAST ARM DETAILS



DEVICE	DESCRIPTION	PROJ. AREA (FT~2)	WEIGHT (LBS)
(A)	3 SECTION, 3 WAY SIGNAL	18.29	202
(B)	3 SECTION, 1 WAY SIGNAL	8.67	74
(C)	5 SECTION, 1 WAY SIGNAL	13.33	110
(D)	DUAL PEDESTRIAN SIGNAL	8.00	80
(E)	30" X 36" REGULATORY SIGN	7.50	23
(F)	5 SECTION, 2 WAY SIGNAL	21.95	215
NOTE: ALL SIGNALS HAVE 5.0" BACKPLATES			

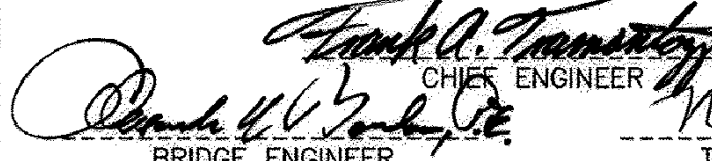
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MONTH_DD,YYYYISSUED FOR CONSTRUCTION



STANDARD DRAWINGS
TYPE II MAST ARMS
HEAVY LOAD DIAGRAMS

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
HIGHWAY DIVISION
10 PARK PLAZA BOSTON, MASS

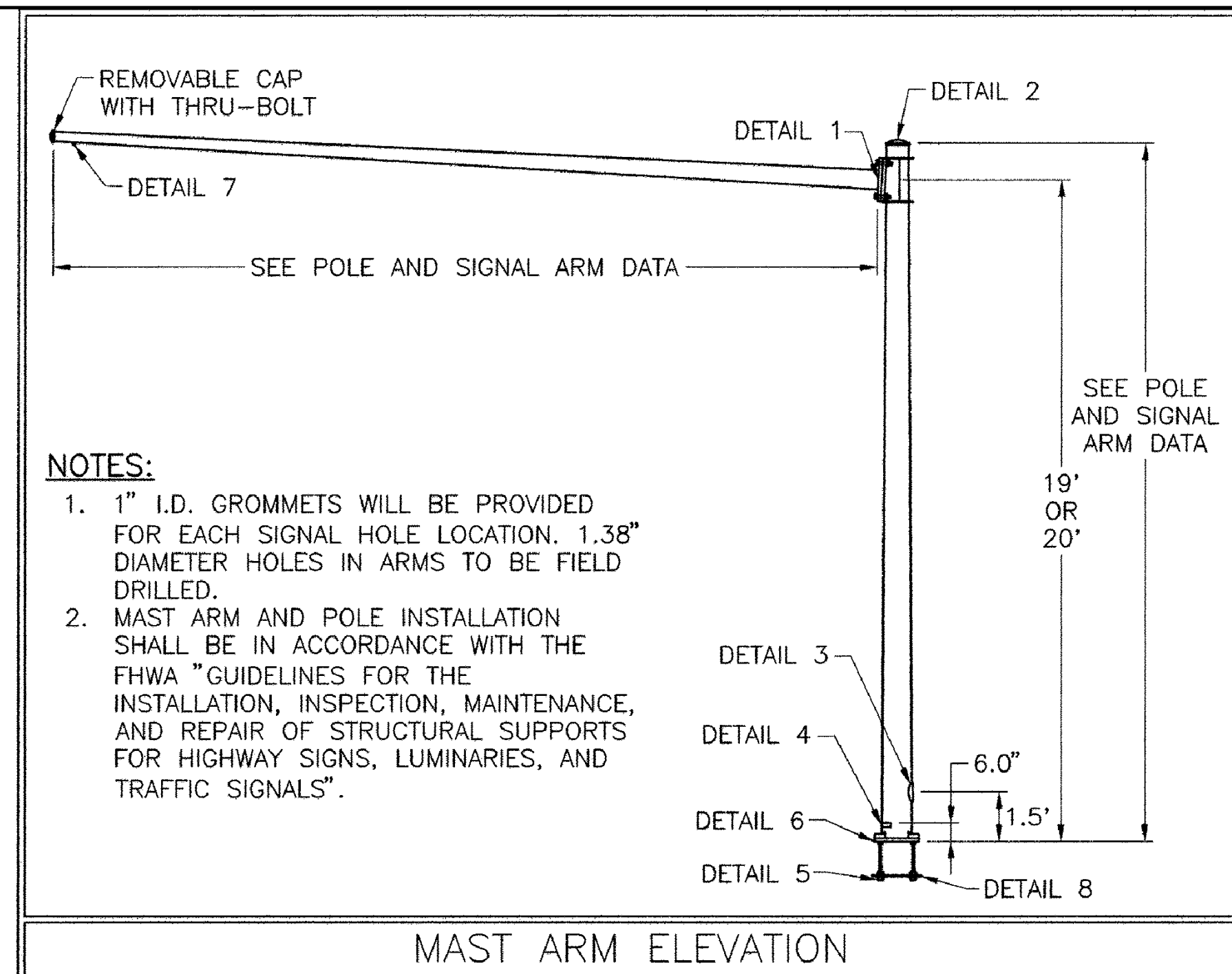


2/24/2011
CHIEF ENGINEER



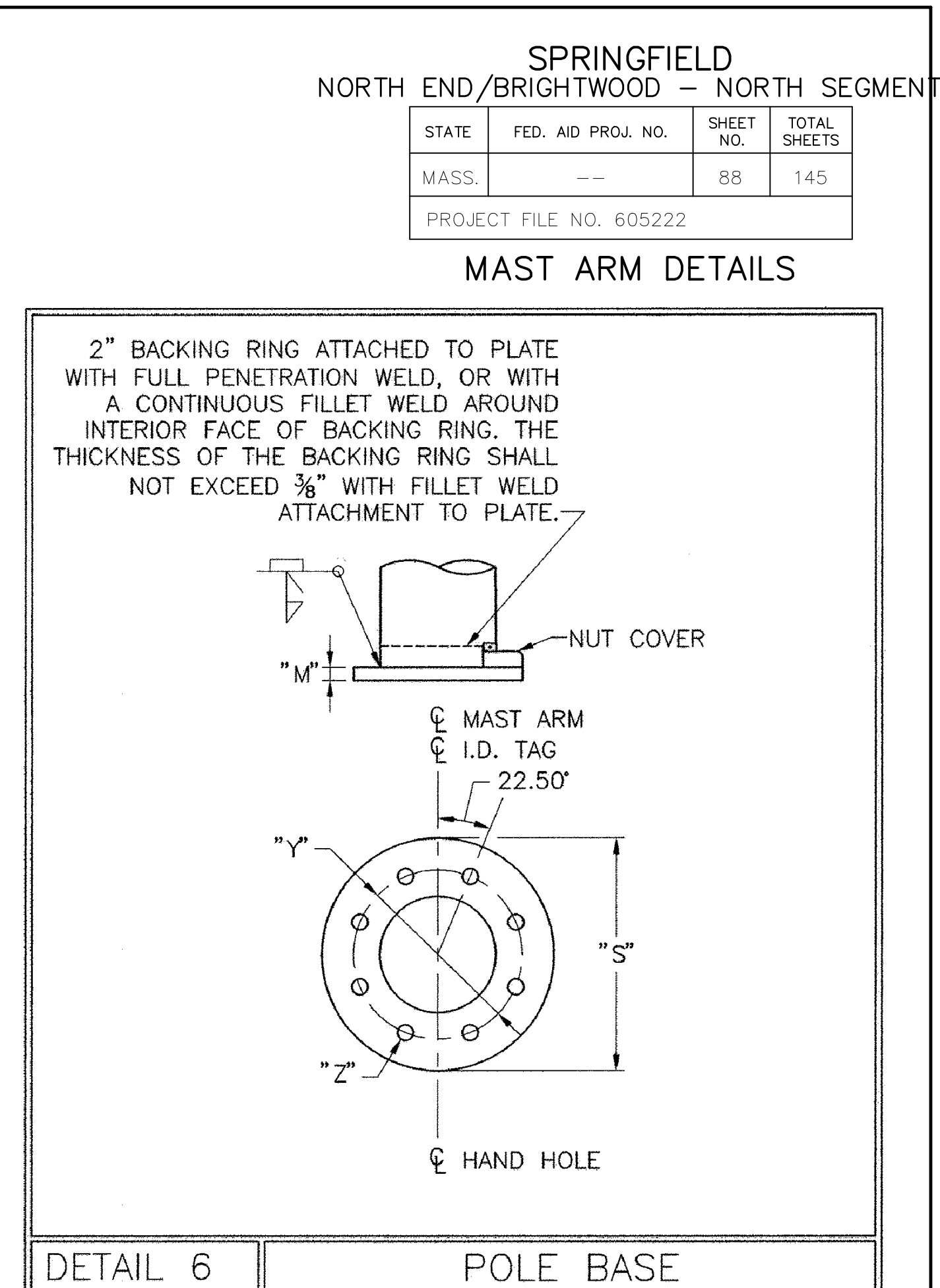
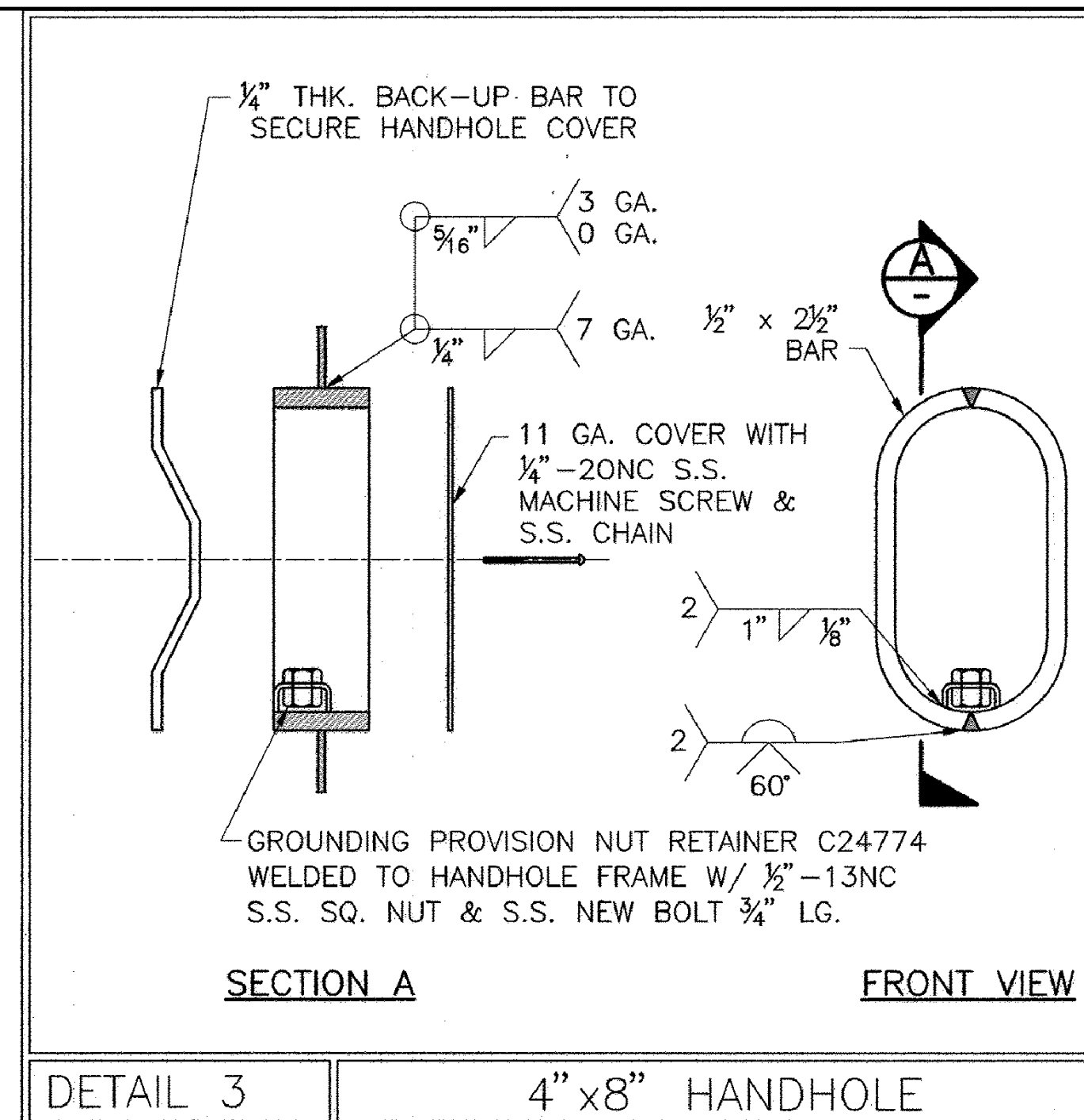
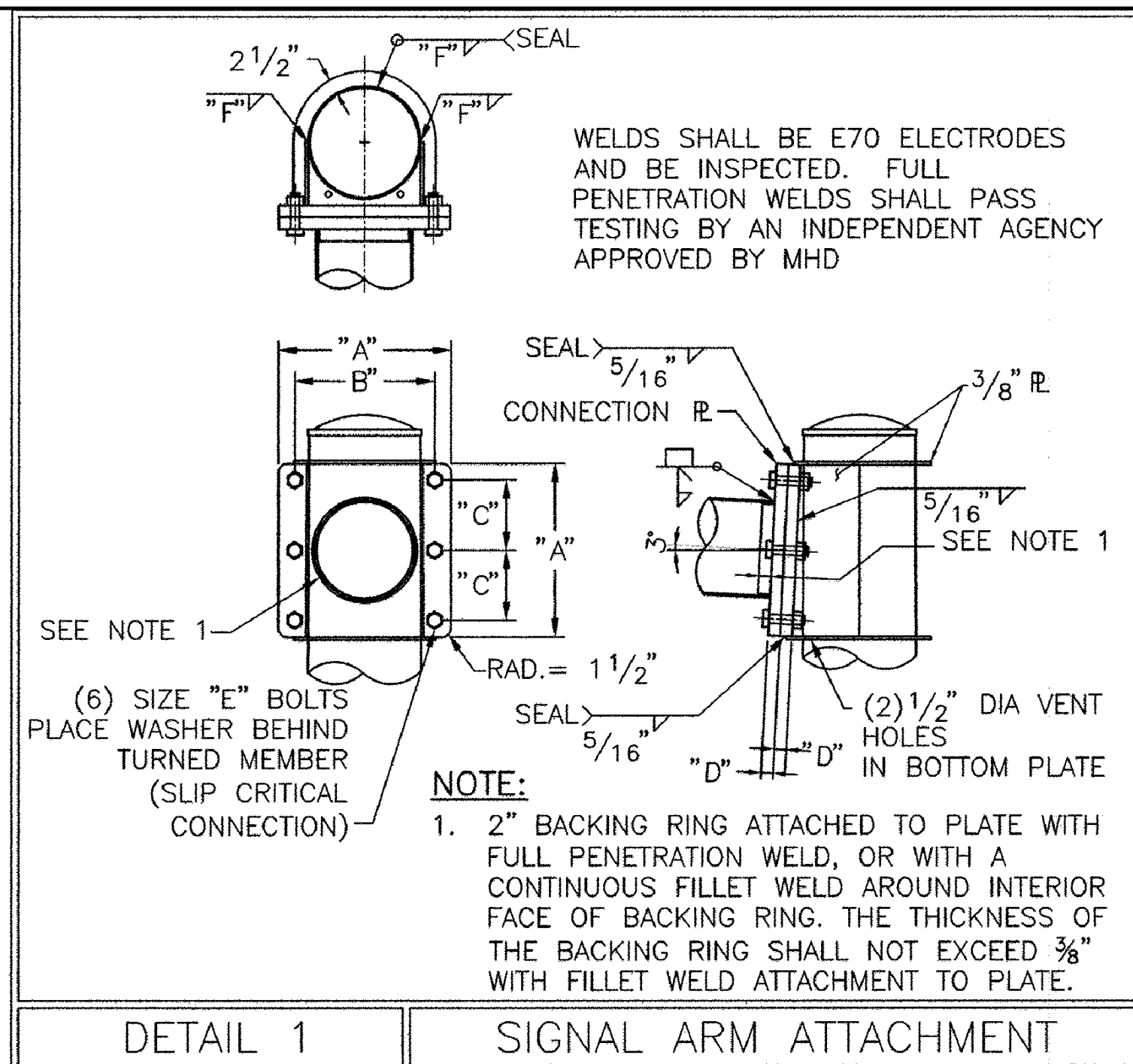
TRAFFIC ENGINEER

SHEET 3 OF 5 SHEETS



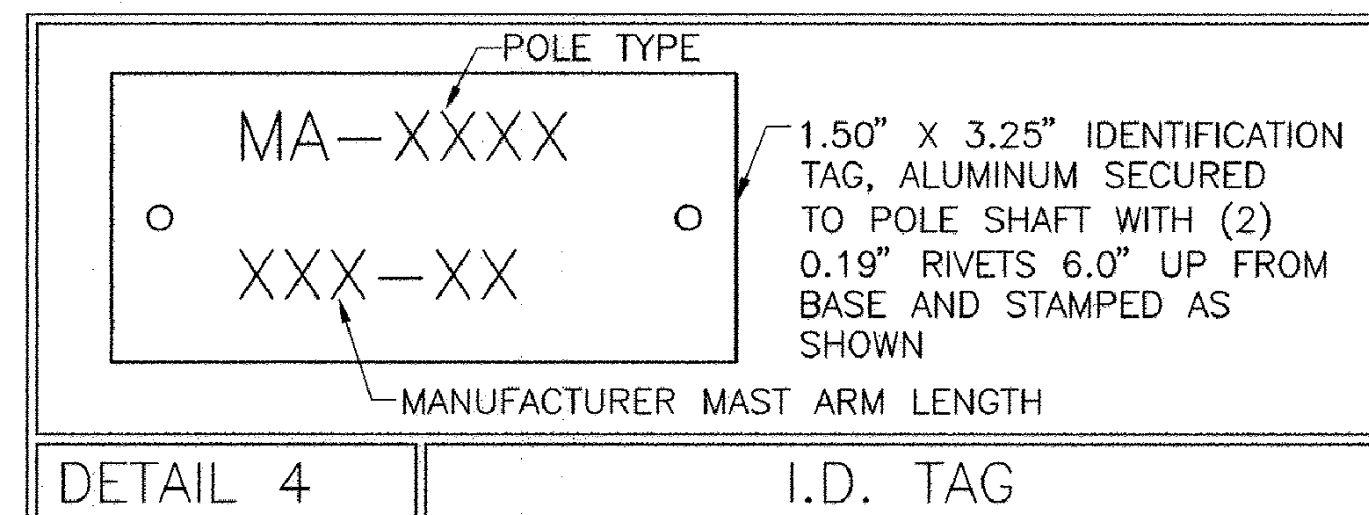
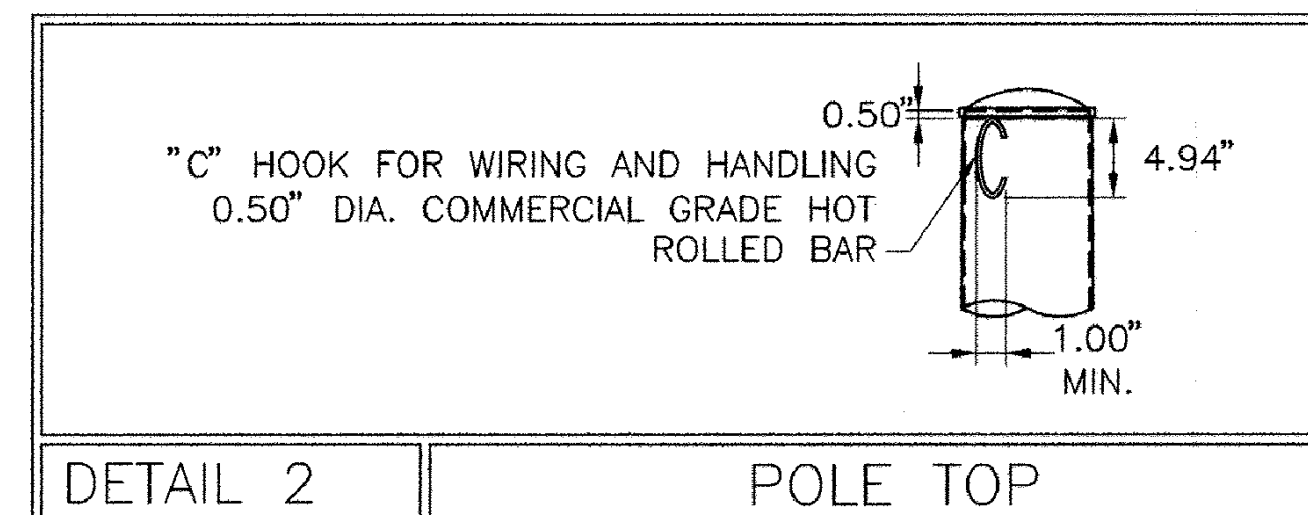
NOTES:

- 1" I.D. GROMMETS WILL BE PROVIDED FOR EACH SIGNAL HOLE LOCATION. 1.38" DIAMETER HOLES IN ARMS TO BE FIELD DRILLED.
- MAST ARM AND POLE INSTALLATION SHALL BE IN ACCORDANCE WITH THE FHWA "GUIDELINES FOR THE INSTALLATION, INSPECTION, MAINTENANCE, AND REPAIR OF STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES, AND TRAFFIC SIGNALS".



MATERIAL DATA					
COMPONENT	DESIGNATION	YIELD (KSI)	COMPONENT	DESIGNATION	YIELD (KSI)
POLE TUBE	ASTM A595 GR. A	55	ARM TUBE	ASTM A595 GR. A	55
POLE BASE PLATE	AASHTO M270	50	ARM CONNECTION PLATE	AASHTO M270	50
ANCHOR BOLTS	AASHTO M314	55	ARM CONNECTING BOLTS	AASHTO M164 **	
GALVANIZING	AASHTO M111 OR M232				

** BOLTS WHICH ACCUMULATE RUST OR DIRT SHALL BE DISCARDED.



POLE AND SIGNAL ARM DATA – LIGHT LOADS																				
LOCATIONS	SIGNAL ARM TUBE				POLE TUBE				POLE BASE				ANCHOR BOLT		SIGNAL ARM ATTACHMENT DATA					
	SPAN (FT)	FIXED END DIA. (IN)	FREE END DIA. (IN)	WALL THK.	BASE DIA. (IN)	TOP DIA. (IN)	LENGTH (FT)	WALL THK.	PLATE CIRCLE "S" (IN)	BOLT CIRCLE "Y" (IN)	THK. "M" (IN)	HOLE "Z" (IN)	DIA. "K" (IN)	EMBED. LENGTH "J" (IN)	"A" (IN)	"B" (IN)	"C" (IN)	"D" (IN)	"E" (IN)	"F" (IN)
	15.00	9.00	6.90	7 GA.	12.00	9.06	21.00	7 GA.	29.50	24.00	1.50	1.813	1.50	36.00	19.00	15.00	7.50	1.00	1.00	0.188
	20.00	9.00	6.20	7 GA.	12.00	9.06	21.00	7 GA.	29.50	24.00	1.50	1.813	1.50	36.00	19.00	15.00	7.50	1.00	1.00	0.188
	25.00	10.00	6.50	7 GA.	13.00	10.06	21.00	7 GA.	29.50	24.00	1.50	1.813	1.50	36.00	20.00	16.00	8.00	1.00	1.00	0.188
	30.00	12.50	8.30	3 GA.	15.50	12.56	21.00	3 GA.	29.50	24.00	1.50	1.813	1.50	36.00	23.50	19.00	9.50	1.25	1.25	0.250
	35.00	13.00	8.10	3 GA.	16.00	13.06	21.00	3 GA.	29.50	24.00	1.50	1.813	1.50	36.00	24.50	20.00	10.00	1.25	1.25	0.250
	40.00	13.00	7.40	3 GA.	16.00	13.06	21.00	3 GA.	29.50	24.00	1.50	1.813	1.50	36.00	24.50	20.00	10.00	1.25	1.25	0.250
	45.00	13.50	7.20	3 GA.	16.50	13.56	21.00	3 GA.	29.50	24.00	1.50	1.813	1.50	36.00	27.50	22.00	11.00	1.50	1.50	0.313

POLE AND SIGNAL ARM DATA – MEDIUM LOADS																				
LOCATIONS	SIGNAL ARM TUBE				POLE TUBE				POLE BASE				ANCHOR BOLT		SIGNAL ARM ATTACHMENT DATA					
	SPAN (FT)	FIXED END DIA. (IN)	FREE END DIA. (IN)	WALL THK.	BASE DIA. (IN)	TOP DIA. (IN)	LENGTH (FT)	WALL THK.	PLATE CIRCLE "S" (IN)	BOLT CIRCLE "Y" (IN)	THK. "M" (IN)	HOLE "Z" (IN)	DIA. "K" (IN)	EMBED. LENGTH "J" (IN)	"A" (IN)	"B" (IN)	"C" (IN)	"D" (IN)	"E" (IN)	"F" (IN)
	15.00	9.00	6.90	7 GA.	12.00	9.06	21.00	7 GA.	29.50	24.00	1.50	1.813	1.50	36.00	19.00	15.00	7.50	1.00	1.00	0.188
	20.00	10.00	7.20	3 GA.	13.00	10.06	21.00	3 GA.	29.50	24.00	1.50	1.813	1.50	36.00	20.00	16.00	8.00	1.00	1.00	0.250
	25.00	11.00	7.50	3 GA.	14.00	11.06	21.00	3 GA.	29.50	24.00	1.50	1.813	1.50	36.00	23.50	19.00	9.50	1.25	1.25	0.250
	30.00	13.00	8.80	3 GA.	16.00	13.06	21.00	3 GA.	29.50	24.00	1.50	1.813	1.50	36.00	23.50	19.00	9.50	1.25	1.25	0.250
	35.00	14.00	9.10	3 GA.	17.00	14.06	21.00	3 GA.	29.50	24.00	1.50	1.813	1.50	36.00	27.50	22.00	11.00	1.50	1.50	0.250
	40.00	15.00	9.40	3 GA.	18.00	15.06	21.00	3 GA.	29.50	24.00	1.50	1.813	1.50	36.00	27.50	22.00	11.00	1.50	1.50	0.250
	45.00	16.00	9.70	0 GA.	19.00	16.06	21.00	0 GA.	29.50	24.00	1.50	1.813	1.50	36.00	29.50	24.00	12.00	1.75	1.50	0.313

POLE AND SIGNAL ARM DATA – HEAVY LOADS																				
LOCATIONS	SIGNAL ARM TUBE				POLE TUBE				POLE BASE				ANCHOR BOLT		SIGNAL ARM ATTACHMENT DATA					
	SPAN (FT)	FIXED END DIA. (IN)	FREE END DIA. (IN)	WALL THK.	BASE DIA. (IN)	TOP DIA. (IN)	LENGTH (FT)	WALL THK.	PLATE CIRCLE "S" (IN)	BOLT CIRCLE "Y" (IN)	THK. "M" (IN)	HOLE "Z" (IN)	DIA. "K" (IN)	EMBED. LENGTH "J" (IN)	"A" (IN)	"B" (IN)	"C" (IN)	"D" (IN)	"E" (IN)	"F" (IN)
	15.00	9.00	6.90	7 GA.	12.00	9.06	21.00	7 GA.	29.50	24.00	1.50	1.813	1.50	36.00	19.00	15.00	7.50	1.00	1.00	0.188
	20.00	12.50	9.70	3 GA.	15.50	12.56	21.00	3 GA.	29.50	24.00	1.50	1.813	1.50	36.00	24.00	19.00	9.50	1.25	1.25	0.250
	25.00	14.00	10.50	3 GA.	17.00	14.06	21.00	3 GA.	29.50	24.00	1.50	1.813	1.50	36.00	27.50	22.00	11.00	1.50	1.50	0.250
	30.00	15.50	11.30	3 GA.	18.50	15.56	21.00	3 GA.	29.50	24.00	1.50	1.813	1.50	36.00	27.50	22.00	11.00	1.50	1.50	0.250
	35.00	16.50	11.60	0 GA.	19.50	16.56	21.00	0 GA.	34.50	28.00	1.75	2.063	1.75	36.00	29.50	24.00	12.00	1.75	1.50	0.313
	40.00	17.50	11.90	0 GA.	20.50	17.56	21.00	0 GA.	34.50	28.00	1.75	2.063	1.75	36.00	29.50	24.00	12.00	1.75	1.50	0.313
	45.00	18.50	12.20	0 GA.	21.50	18.56	21.00	0 GA.	34.50	28.00	1.75	2.063	1.75	36.00	31.50	26.00	13.00	2.00	1.50	0.313

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MONTH_DD_YYYY ISSUED FOR CONSTRUCTION

massDOT Highway
STANDARD DRAWINGS
TYPE II MAST ARMS
DETAILS

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
HIGHWAY DIVISION
10 PARK PLAZA BOSTON, MASS

Frank A. Timmerman 2/21/2011
CHIEF ENGINEER

David A. Boudreau
BRIDGE ENGINEER

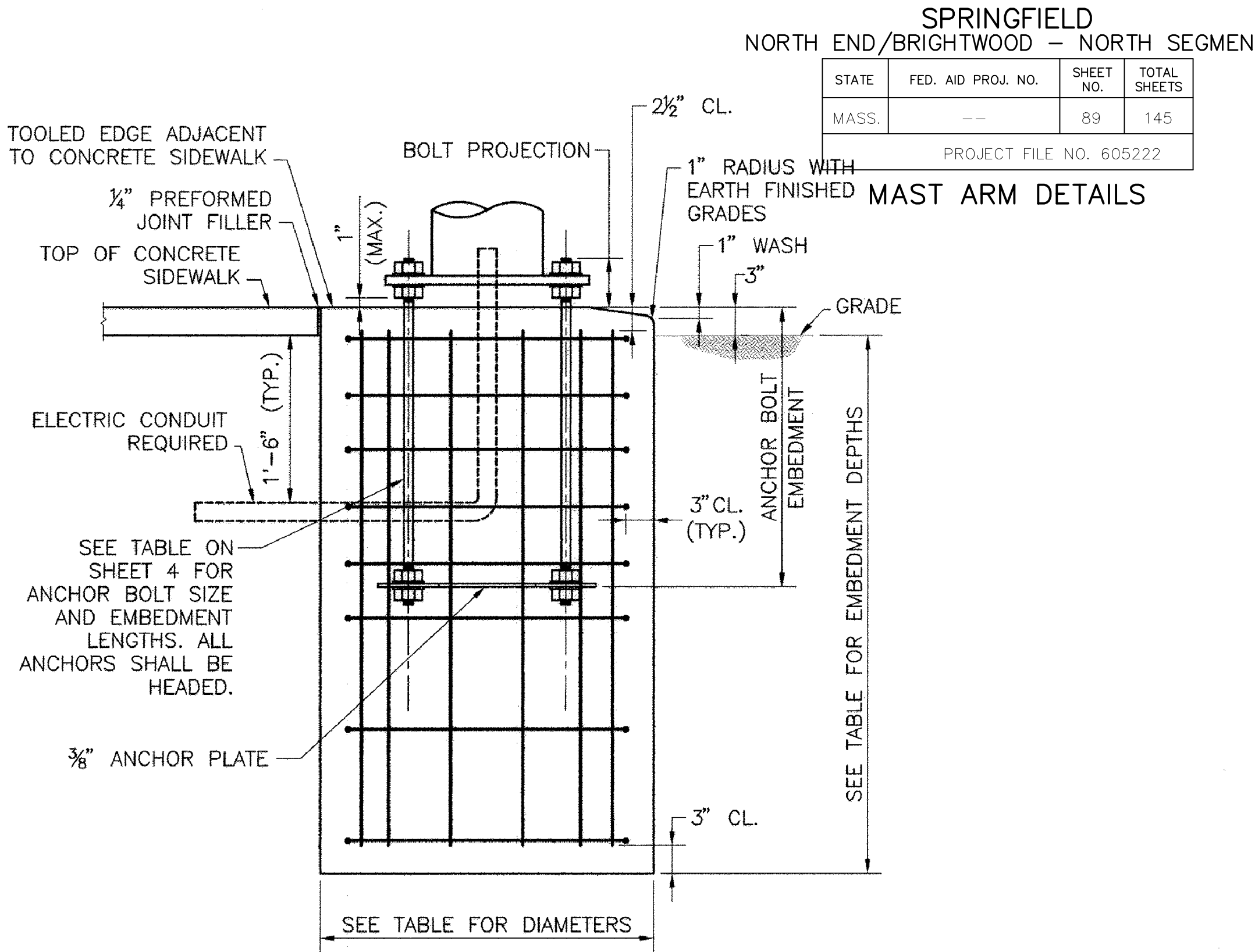
Neil E. Boudreau
TRAFFIC ENGINEER

SHEET 4 OF 5 SHEETS

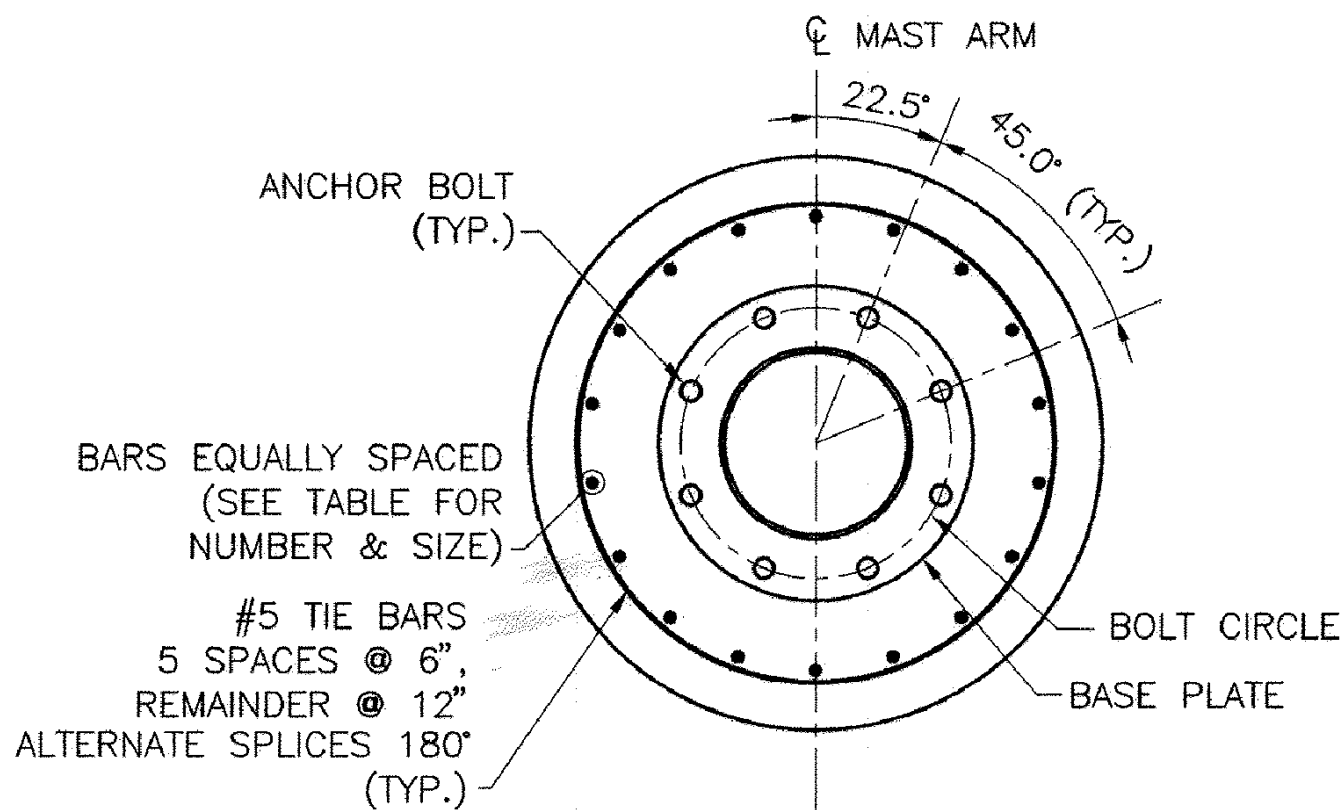
PIER FOUNDATIONS FOR 110 MPH WIND SPEED ZONE												
SOIL TYPE	LIGHT LOADING CONDITIONS											
	15' & 20' MAST ARMS			25' & 30' MAST ARMS			35' & 40' MAST ARMS			45' MAST ARMS		
	DIAMETER	DEPTH	VERTICAL BARS	DIAMETER	DEPTH	VERTICAL BARS	DIAMETER	DEPTH	VERTICAL BARS	DIAMETER	DEPTH	VERTICAL BARS
DRY SAND	3'-6"	6'-0"	18-#8	3'-6"	8'-0"	18-#8	3'-6"	8'-0"	18-#8	3'-6"	9'-0"	18-#8
WET SAND	3'-6"	7'-0"	18-#8	3'-6"	9'-0"	18-#8	3'-6"	9'-0"	18-#8	3'-6"	9'-0"	18-#8
CLAY (MEDIUM STIFF)	3'-6"	11'-0"	18-#8	3'-6"	12'-0"	18-#8	3'-6"	12'-0"	18-#8	3'-6"	12'-0"	18-#8
ALLUVIAL	3'-6"	8'-0"	18-#8	3'-6"	10'-0"	18-#8	3'-6"	10'-0"	18-#8	3'-6"	11'-0"	18-#8
SOIL TYPE	MEDIUM LOADING CONDITIONS											
	15' & 20' MAST ARMS			25' & 30' MAST ARMS			35' & 40' MAST ARMS			45' MAST ARMS		
	DIAMETER	DEPTH	VERTICAL BARS	DIAMETER	DEPTH	VERTICAL BARS	DIAMETER	DEPTH	VERTICAL BARS	DIAMETER	DEPTH	VERTICAL BARS
DRY SAND	3'-6"	7'-0"	18-#8	3'-6"	9'-0"	18-#8	4'-0"	9'-0"	18-#9	4'-6"	8'-0"	18-#10
WET SAND	3'-6"	8'-0"	18-#8	3'-6"	9'-0"	18-#8	4'-0"	10'-0"	18-#9	4'-6"	9'-0"	18-#10
CLAY (MEDIUM STIFF)	3'-6"	11'-0"	18-#8	3'-6"	12'-0"	18-#8	4'-0"	13'-0"	18-#9	4'-6"	14'-0"	18-#10
ALLUVIAL	3'-6"	9'-0"	18-#8	3'-6"	10'-0"	18-#8	4'-0"	11'-0"	18-#9	4'-6"	10'-0"	18-#10
SOIL TYPE	HEAVY LOADING CONDITIONS											
	15' & 20' MAST ARMS			25' & 30' MAST ARMS			35' & 40' MAST ARMS			45' MAST ARMS		
	DIAMETER	DEPTH	VERTICAL BARS	DIAMETER	DEPTH	VERTICAL BARS	DIAMETER	DEPTH	VERTICAL BARS	DIAMETER	DEPTH	VERTICAL BARS
DRY SAND	3'-6"	8'-0"	18-#8	4'-0"	9'-0"	18-#9	4'-6"	10'-0"	18-#10	5'-0"	9'-0"	23-#10
WET SAND	3'-6"	8'-0"	18-#8	4'-0"	10'-0"	18-#9	4'-6"	11'-0"	18-#10	5'-0"	10'-0"	23-#10
CLAY (MEDIUM STIFF)	3'-6"	12'-0"	18-#8	4'-0"	14'-0"	18-#9	4'-6"	15'-0"	18-#10	5'-0"	16'-0"	23-#10
ALLUVIAL	3'-6"	10'-0"	18-#8	4'-0"	11'-0"	18-#9	4'-6"	12'-0"	18-#10	5'-0"	12'-0"	23-#10

PIER FOUNDATIONS FOR 130 MPH WIND SPEED ZONE												
SOIL TYPE	LIGHT LOADING CONDITIONS											
	15' & 20' MAST ARMS			25' & 30' MAST ARMS			35' & 40' MAST ARMS			45' MAST ARMS		
	DIAMETER	DEPTH	VERTICAL BARS	DIAMETER	DEPTH	VERTICAL BARS	DIAMETER	DEPTH	VERTICAL BARS	DIAMETER	DEPTH	VERTICAL BARS
DRY SAND	3'-6"	7'-0"	18-#8	3'-6"	9'-0"	18-#8	3'-6"	10'-0"	18-#8	3'-6"	10'-0"	18-#8
WET SAND	3'-6"	8'-0"	18-#8	3'-6"	10'-0"	18-#8	3'-6"	11'-0"	18-#8	3'-6"	11'-0"	18-#8
CLAY (MEDIUM STIFF)	3'-6"	12'-0"	18-#8	3'-6"	13'-0"	18-#8	3'-6"	13'-0"	18-#8	3'-6"	13'-0"	18-#8
ALLUVIAL	3'-6"	9'-0"	18-#8	3'-6"	12'-0"	18-#8	3'-6"	12'-0"	18-#8	3'-6"	13'-0"	18-#8
SOIL TYPE	MEDIUM LOADING CONDITIONS											
	15' & 20' MAST ARMS			25' & 30' MAST ARMS			35' & 40' MAST ARMS			45' MAST ARMS		
	DIAMETER	DEPTH	VERTICAL BARS	DIAMETER	DEPTH	VERTICAL BARS	DIAMETER	DEPTH	VERTICAL BARS	DIAMETER	DEPTH	VERTICAL BARS
DRY SAND	3'-6"	8'-0"	18-#8	3'-6"	10'-0"	18-#8	4'-0"	11'-0"	18-#9	4'-6"	10'-0"	18-#10
WET SAND	3'-6"	8'-0"	18-#8	3'-6"	11'-0"	18-#8	4'-0"	12'-0"	18-#9	4'-6"	11'-0"	18-#10
CLAY (MEDIUM STIFF)	3'-6"	12'-0"	18-#8	3'-6"	14'-0"	18-#8	4'-0"	15'-0"	18-#9	4'-6"	15'-0"	18-#10
ALLUVIAL	3'-6"	10'-0"	18-#8	3'-6"	13'-0"	18-#8	4'-0"	13'-0"	18-#9	4'-6"	12'-0"	18-#10
SOIL TYPE	HEAVY LOADING CONDITIONS											
	15' & 20' MAST ARMS			25' & 30' MAST ARMS			35' & 40' MAST ARMS			45' MAST ARMS		
	DIAMETER	DEPTH	VERTICAL BARS	DIAMETER	DEPTH	VERTICAL BARS	DIAMETER	DEPTH	VERTICAL BARS	DIAMETER	DEPTH	VERTICAL BARS
DRY SAND	3'-6"	9'-0"	18-#8	4'-0"	11'-0"	18-#9	4'-6"	12'-0"	18-#10	5'-0"	11'-0"	23-#10
WET SAND	3'-6"	10'-0"	18-#8	4'-0"	12'-0"	18-#9	4'-6"	13'-0"	18-#10	5'-0"	12'-0"	23-#10
CLAY (MEDIUM STIFF)	3'-6"	14'-0"	18-#8	4'-0"	15'-0"	18-#9	4'-6"	16'-0"	18-#10	5'-0"	17'-0"	23-#10
ALLUVIAL	3'-6"	11'-0"	18-#8	4'-0"	13'-0"	18-#9	4'-6"	15'-0"	18-#10	5'-0"	14'-0"	23-#10

- NOTES:
- FOUNDATIONS SHALL BE 4000 PSI, 1½", 565 CEMENT CONCRETE.
 - REINFORCEMENT SHALL BE ASTM A615 GRADE 60.
 - ANCHOR BOLTS SHALL BE SET BY TEMPLATE.
 - PROVIDE FOR ELECTRICAL CONDUIT.
 - EXCAVATION SHALL BE BY THE AUGER METHOD TO THE NEAT LINES OF THE OUTSIDE DIMENSION OF THE FOUNDATIONS WITHOUT DISTURBING THE SOIL AROUND AND BELOW THE PROPOSED FOUNDATION BOTTOM. ALTERNATE METHODS OF EXCAVATION MAY BE SUBMITTED TO MASSHIGHWAY FOR APPROVAL IF THEY MEET THE REQUIREMENTS LISTED IN NOTES 6, 7, AND 8.
 - THE EARTH WALLS OF THE FOUNDATION SHALL BE ADEQUATELY AND SECURELY PROTECTED AT ALL TIMES AGAINST CAVE-INS, DISPLACEMENT OF THE SURROUNDING EARTH AND FOR THE EXCLUSION OF GROUND WATER. THIS MAY BE DONE BY THE USE OF STEEL CYLINDER LINERS OR CASINGS THAT ARE APPROVED BY MASSHIGHWAY. IF LINERS ARE USED THEY MAY BE RECLAIMED PROVIDED THAT THEY ARE WITHDRAWN AS THE CONCRETE IS BEING PLACED, MAINTAINING A SUFFICIENT HEAD OF CONCRETE WITHIN THE LINER TO PREVENT REDUCTION IN THE FOUNDATION DIAMETER AND TO PREVENT EXTRANEOUS MATERIAL FROM FALLING IN FROM THE SIDES AND MIXING WITH THE CONCRETE.
 - IF THE SOIL IS DISTURBED OR REMOVED BEYOND THE NEAT LINES OF THE OUTSIDE DIMENSION OF THE FOUNDATION, IT SHALL BE REPLACED WITH CONCRETE. ANY ADDITIONAL COST FOR THE CONCRETE SHALL BE PAID FOR BY THE CONTRACTOR.
 - SPECIAL CARE SHOULD BE GIVEN TO AREAS WHERE WET SOIL IS ENCOUNTERED, TO INSURE THAT THE PREAUGERED HOLE DOES NOT COLLAPSE. THIS MAY REQUIRE THE USE OF STEEL CYLINDER LINERS OR CASINGS TO HOLD THE SOIL IN PLACE UNTIL READY FOR CONCRETE PLACEMENT. THE STEEL CYLINDERS OR CASINGS SHALL BE WITHDRAWN AS THE FOUNDATION CONCRETE IS PLACED.
 - DETERMINATION OF EXISTING SOIL CONDITIONS SHALL BE MADE BY THE DESIGN ENGINEER.
 - IF LEDGE OR POOR SOIL IS ENCOUNTERED (i.e. ONE WHICH DOES NOT APPLY TO THE DESIGN TABLES SHOWN ON THIS SHEET), AN ALTERNATIVE DESIGN SHALL BE PROVIDED BY THE DESIGN ENGINEER. DECISIONS MADE IN NOTES 8 AND 9 SHALL BE SUBMITTED TO MASSHIGHWAY FOR APPROVAL. IF UTILITIES OR OTHER UNDERGROUND OBSTRUCTIONS ARE ENCOUNTERED, THE CONTRACTOR SHALL BACKFILL THE AREA TO ITS ORIGINAL CONDITION UNTIL AN ALTERNATE DESIGN HAS BEEN PROVIDED BY THE ENGINEER.



PIER FOUNDATION DETAIL
NO SCALE



PIER FOUNDATION PLAN
NO SCALE

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IT WAS PROVIDED BY THE MASSDOT
AND ALL INFORMATION CONTAINED
HEREIN IS ASSUMED TO BE CORRECT.

MONTH_DD_YYYYISSUED FOR CONSTRUCTION

massDOT Highway

STANDARD DRAWINGS

TYPE II MAST ARMS
CORED PIER FOUNDATIONS

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
HIGHWAY DIVISION
10 PARK PLAZA BOSTON, MASS

CHIEF ENGINEER

TRAFFIC ENGINEER

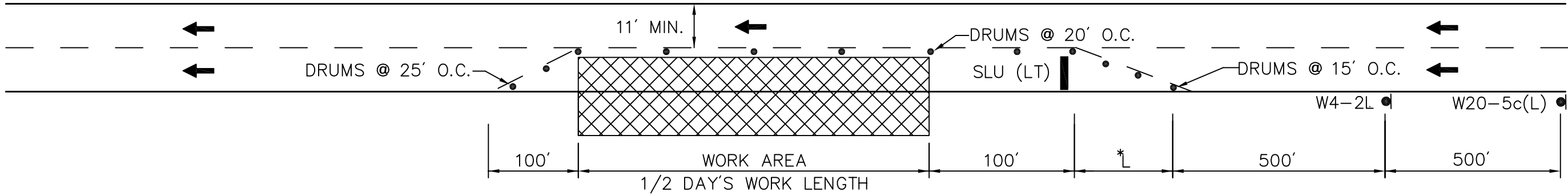
SHEET 5 OF 5 SHEETS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	90	145
PROJECT FILE NO. 605222			

TEMPORARY TRAFFIC
CONTROL PLANS

OPERATIONAL SIGNING

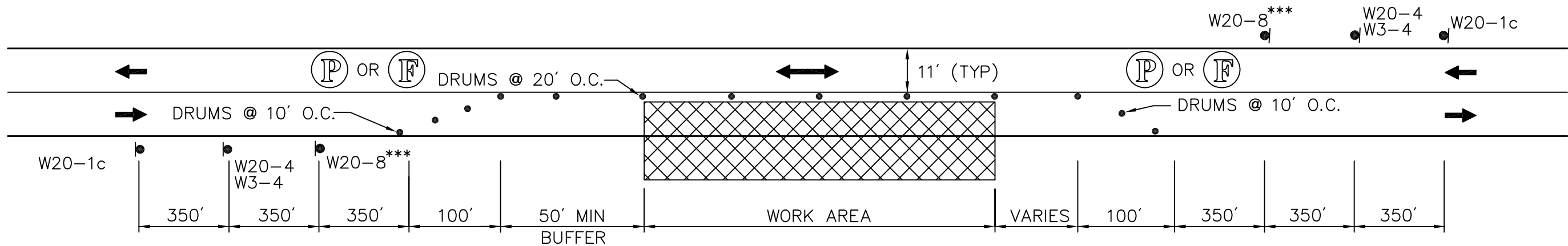
ALL DRUMS AND SIGNS ARE SHOWN AS THEY SHOULD APPEAR DURING THE WORKING DAY, OR WHILE OPERATING IN THE WORK ZONE.



TYPICAL LANE CLOSURE – BIRNIE AVENUE

NOT TO SCALE

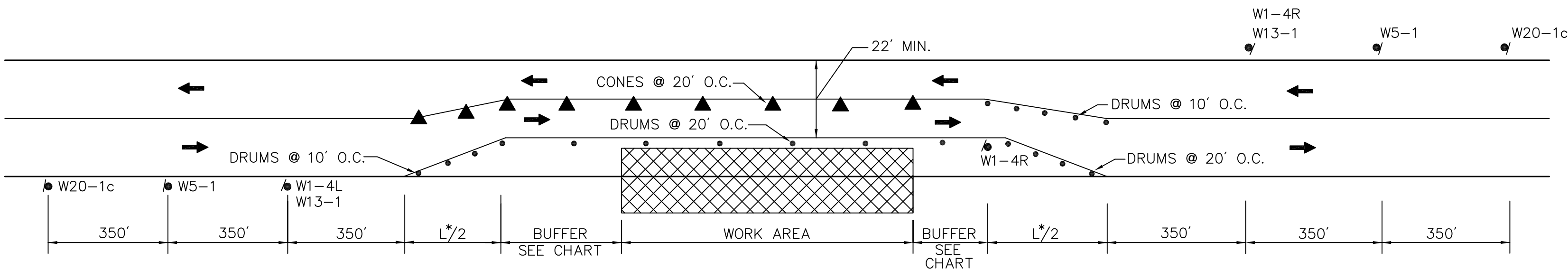
NOTE: THIS DETAIL SHOWS A LEFT LANE CLOSURE DETAIL. THIS DETAIL CAN ALSO BE USED FOR RIGHT LANE CLOSURES, WITH THE SIGN AND TRAFFIC CONTROL DEVICE PLACEMENT ADJUSTED TO THE RIGHT SIDE OF THE ROADWAY AND REPLACING SIGNS W20-5c(R) AND W4-2R WITH W20-5c(L) AND W4-2L RESPECTIVELY.



*** SEE NOTE 18

TYPICAL TWO WAY STREET LANE CLOSURE

NOT TO SCALE



TYPICAL TWO WAY STREET LANE SHIFT

NOT TO SCALE

BUFFER SPACING

SPEED (MPH)	DISTANCE (FEET)
15	80
20	115
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645

LEGEND

●	REFLECTORIZED DRUM	▬	TYPE III BARRICADES
▲	TRAFFIC CONE	▨	WORK AREA PUBLIC ACCESS RESTRICTED
Ⓟ	POLICE OFFICER	←	PROPOSED TRAFFIC FLOW
Ⓡ	FLAGGER	NTS	NOT TO SCALE
●	TEMP TRAFFIC CONTROL SIGN		
	SPECIAL LIGHTING UNIT (SLU)		

GENERAL NOTES

- ALL CONSTRUCTION SIGNING, TEMPORARY TRAFFIC CONTROL DEVICES, AND ROADSIDE ELEMENTS SHALL CONFORM WITH THE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AS AMENDED, THE LATEST REVISIONS OF THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, (AASHTO) ROADSIDE DESIGN GUIDE, AASHTO POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS, AND NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM (NCHRP) REPORT 350 OR THE AASHTO MANUAL FOR ASSESSING SAFETY HARDWARE (MASH).
- ALL TEMPORARY PEDESTRIAN PATHWAYS SHALL COMPLY FULLY WITH ALL REQUIREMENTS OF THE MUTCD AND ALL APPLICABLE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD (MAAB) AND AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG) REQUIREMENTS.
- WORK HOURS SHALL BE 7:00AM TO 3:00PM MONDAY THRU FRIDAY. NO WORK WITHIN PUBLIC WAY SHALL OCCUR ON SATURDAYS, SUNDAYS OR STATE AND COUNTY HOLIDAYS UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION ON TWO WAY STREETS SHALL BE MAINTAINED AT ALL TIMES, EXCEPT THAT DURING WORKING HOURS. TRAFFIC MAY BE REDUCED TO ONE LANE UNDER POLICE CONTROL FOR SHORT TIME PERIODS WHEN REQUIRED FOR THE WORK, AS SHOWN UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- ALL DRUMS SHALL BE SET AT 20' ON CENTER MAX. UNLESS OTHERWISE NOTED OR ADJUSTED BY THE ENGINEER.
- ALL DRUMS SHALL BE APPROXIMATELY PLACED AND MOVED AS NECESSARY TO MAINTAIN ADEQUATE ABUTTER ACCESS AT ALL TIMES. WORK MAY REQUIRE ADDITIONAL SIGNS, DRUMS AND OTHER TRAFFIC CONTROL DEVICES, GRADING AND TEMPORARY PAVEMENT FOR PASSAGE OF PEDESTRIAN, VEHICULAR AND EMERGENCY TRAFFIC THROUGH THE WORK AREAS, BOTH DURING AND AFTER WORKING HOURS, TO MAINTAIN SUCH ACCESS.
- THE CONTRACTOR SHALL NOTIFY EACH ABUTTER AT LEAST 24 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE THE TEMPORARY CLOSURE OF ACCESS, SUCH AS CONDUIT INSTALLATION, EXISTING PAVEMENT EXCAVATION, TEMPORARY DRIVEWAY PAVEMENT PLACEMENT AND SIMILAR OPERATIONS.
- GRADE SEPARATIONS IN EXCESS OF 2" DURING NON-WORKING HOURS WILL REQUIRE DELINEATION BY USE OF REFLECTORIZED DRUMS.
- EXCAVATION EDGES IN EXCESS OF 4" DEEP SHALL BE PROTECTED DURING NON-WORKING HOURS BY BACKFILLING WITH A WEDGE OF COMPACTED GRAVEL BORROW AT A 4:1 SLOPE PER THE DETAIL SHOWN. EXCAVATIONS IN EXCESS OF 2 FEET SHOULD BE PROTECTED BY A MASSDOT APPROVED TEMPORARY CONCRETE BARRIER WITH A MINIMUM LEVEL LATERAL OFFSET OF 3 FEET FROM THE EDGE OF EXCAVATION. BARRIER PLACED WITH LESS THAN THE RECOMMENDED LATERAL OFFSET TO THE EDGE OF EXCAVATION SHALL BE ANCHORED/RESTRAINED BY A MASSDOT AND FHWA APPROVED METHOD TO PREVENT LATERAL MOVEMENT WHEN STRUCK BY ERRANT VEHICLES TRAVELING AT THE POSTED SPEED.
- 11' MINIMUM LANE WIDTHS SHALL BE MAINTAINED ON ALL ROADWAYS.
- TRAFFIC CONTROL DEVICES AND SIGNS SHALL BE COVERED OR REMOVED DURING NON-WORKING HOURS WHEN NOT IN USE.
- ADVISORY SPEED PLATES (W13-1) SHALL BE USED IF APPROPRIATE AND AS REQUESTED BY THE ENGINEER. ADVISORY SPEED SHALL BE AS ESTABLISHED BY THE APPROPRIATE AGENCY WITH JURISDICTION OVER THE ROADWAY ON WHICH THE SIGN WILL BE MOUNTED.
- SIGNS INSTALLED ON PORTABLE STANDS REQUIRE 12 INCH MINIMUM MOUNTING HEIGHT ABOVE THE ROADWAY SURFACE TO THE BOTTOM OF THE SIGN
- SIGNS INSTALLED ON PORTABLE STANDS PLACED AMONG CHANNELIZATION DEVICES REQUIRE A 36 INCH MINIMUM MOUNTING HEIGHT ABOVE THE ROADWAY SURFACE TO THE BOTTOM OF THE SIGN.
- SIGNS MOUNTED ON P5 POSTS REQUIRE A MINIMUM 7 FOOT MOUNTING HEIGHT ABOVE THE ROADWAY OR SIDEWALK SURFACE TO THE BOTTOM OF THE SIGN.
- W20-1 SERIES SIGNS SHOWN ON ADVANCE SIGN SCHEMATIC MAY BE USED IN LIEU OF W20-1 SERIES SIGNS SHOWN ON TYPICAL DETAILS ON THE TEMP TRAFFIC CONTROL PLANS IF MINIMUM SIGN SPACING IS MET.

- ALL REFLECTORIZED TRAFFIC CONES SHALL BE A MINIMUM OF 36 INCHES IN HEIGHT.
- POLICE OFFICER AHEAD SIGN (W20-8) SHALL BE REPLACED WITH W20-7a WHEN FLAGGERS ARE USED IN LIEU OF POLICE.
- CONES MAY BE USED IN LIEU OF DRUMS OUTSIDE OF TAPER AREAS.
- TEMPORARY MARKINGS SHALL BE WATER-BORNE PAINT.
- W20-8a SIGNS SHALL BE INSTALLED IN ADVANCE (100' MIN) OF AREAS WHERE UTILITY CASTINGS HAVE BEEN RAISED IN ADVANCE OF PAVING OPERATIONS OR AS REQUESTED BY THE ENGINEER.
- W8-14 SIGNS SHALL BE INSTALLED IN ADVANCE (100' MIN) OF PAVEMENT MILLING AREAS OR AS REQUESTED BY THE ENGINEER.
- THERE IS NO DESIGNATED BICYCLE LANE ON THE ROADWAY WITHIN THE PROJECT LIMITS. BICYCLES ARE EXPECTED TO SHARE THE ROAD WITH GENERAL VEHICULAR TRAFFIC.
- ALL BROKEN WHITE LANE MARKINGS SHALL BE 10' LANE LINE (WHITE PAINT) WITH 30' GAPS.
- ALL TEMPORARY CROSSWALKS AND STOPLINES SHALL BE 6 WHITE INCH PAINT.
- ALL TEMPORARY DOUBLE YELLOW CENTER LINES (DYCL) SHALL BE 6 INCH PAINT.
- SLU FLASHING (CAUTION) SHALL FLASH IN FOUR-POINT CAUTION MODE ONLY.
- CONTRACTOR SHALL MAINTAIN ALL TRAFFIC SIGNALS WITHIN THE PROJECT LIMITS AT ALL TIMES FOR THE DURATION OF THE PROJECT. ALL TRAFFIC SIGNALS SHALL FULLY COMPLY WITH MUTCD AT ALL TIMES. CONTRACTOR SHALL PREPARE TRAFFIC SIGNAL PLAN DEPICTING THE TRAFFIC SIGNAL LOCATION AND EQUIPMENT NECESSARY FOR ANY ALTERATIONS. TRAFFIC SIGNAL PLANS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MASSACHUSETTS AND SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO IMPLEMENTATION.
- CONTRACTOR TO SECURE ALL WORK AREAS TO PREVENT UNAUTHORIZED ACCESS AT ALL TIMES.

FOR POSTED SPEEDS OF 40 MPH OR LESS

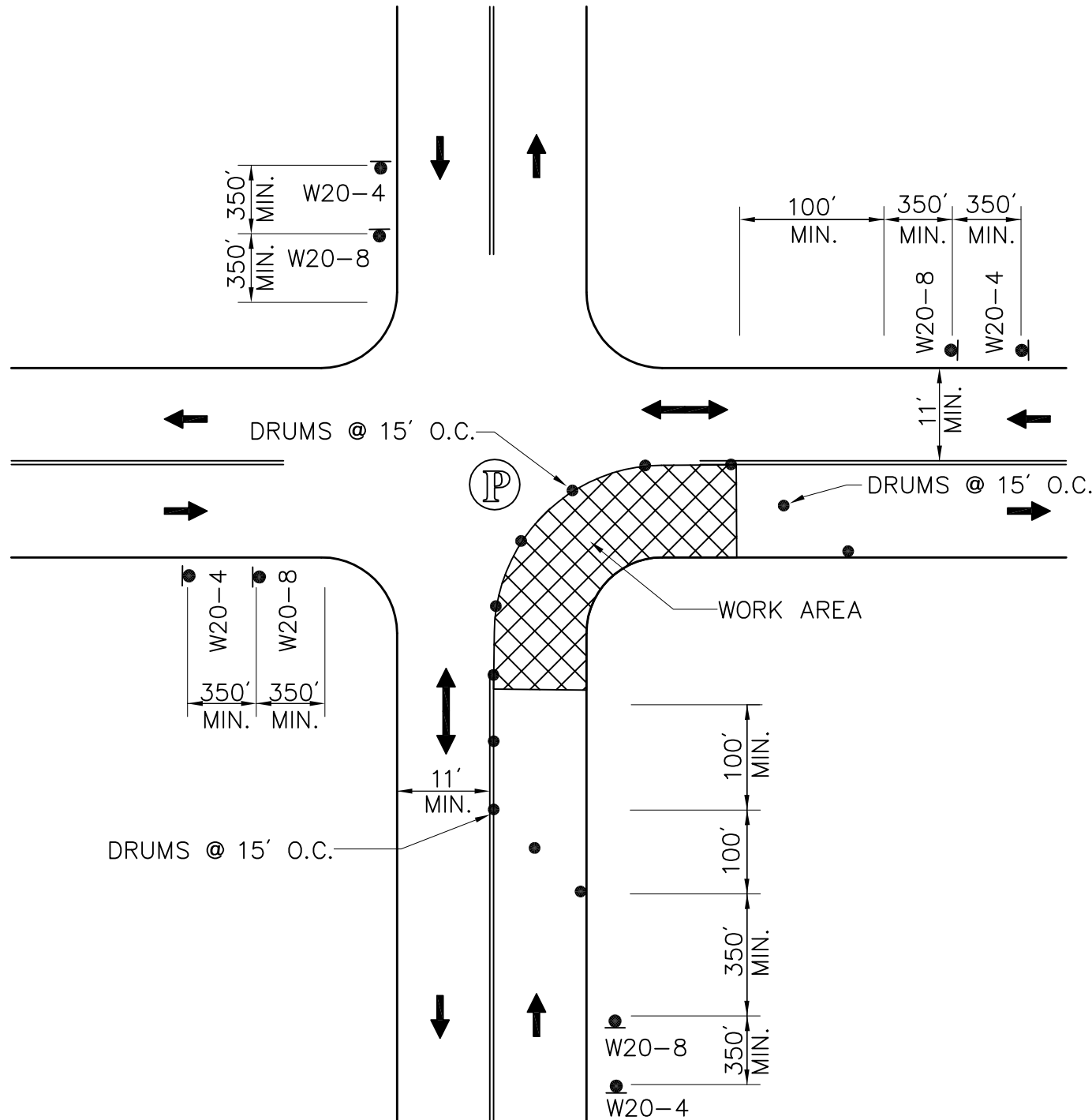
* $L = \frac{WS^2}{60}$ L=TAPER LENGTH
W=WIDTH OF ROADWAY TO BE SHIFTED OR REDIRECTED
S=POSTED SPEED LIMIT

FOR POSTED SPEEDS GREATER THAN 40 MPH

* $L = W \times S$ L=TAPER LENGTH
W=WIDTH OF ROADWAY TO BE SHIFTED OR REDIRECTED
S=POSTED SPEED LIMIT

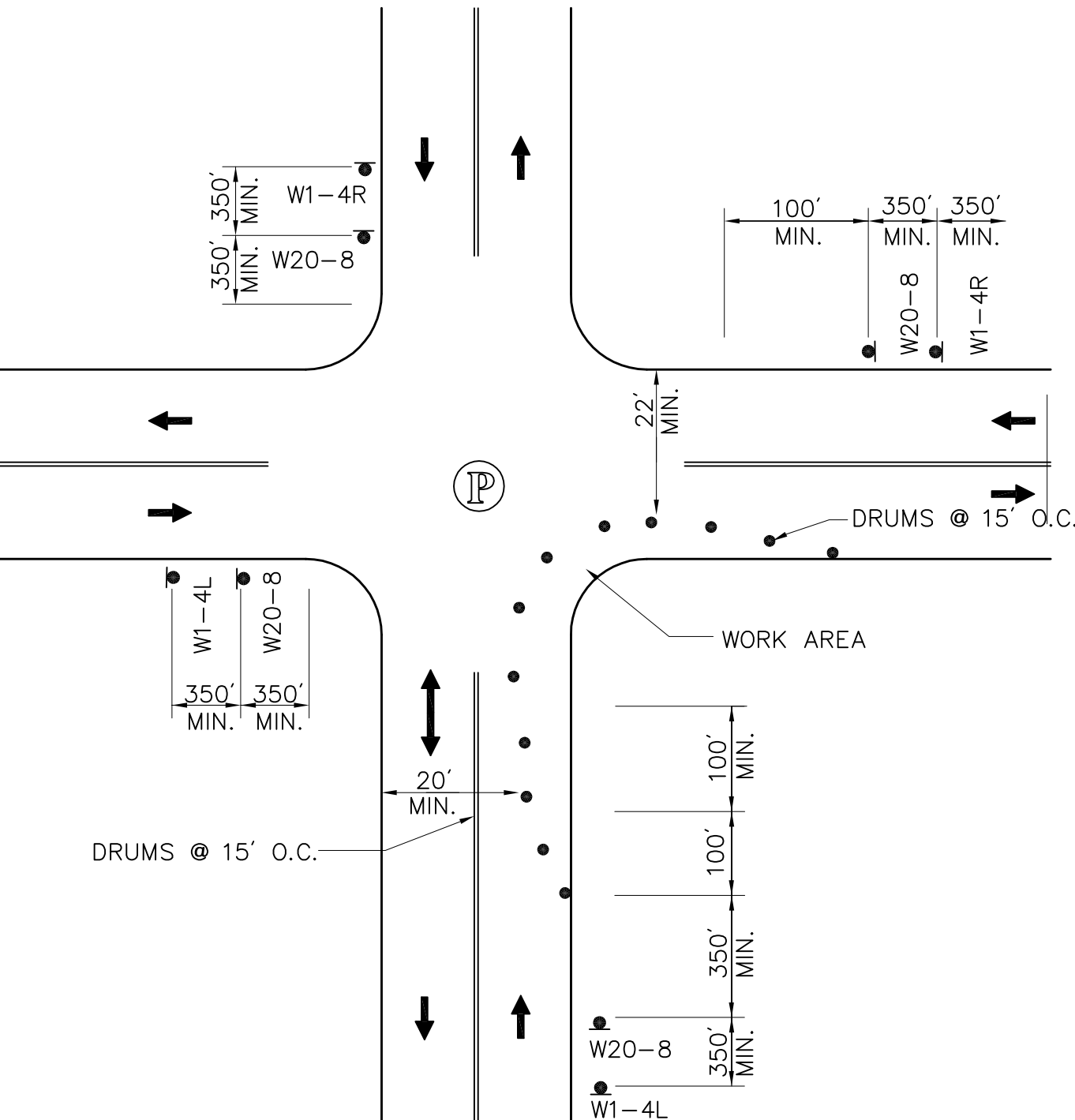
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	91	145
PROJECT FILE NO. 605222			

TEMPORARY TRAFFIC CONTROL PLANS



ONE LANE BI-DIRECTIONAL TRAFFIC AT INTERSECTIONS

NOTE:
1. ADVANCE WARNING SIGN PLACEMENT TO BE ADJUSTED AS NECESSARY

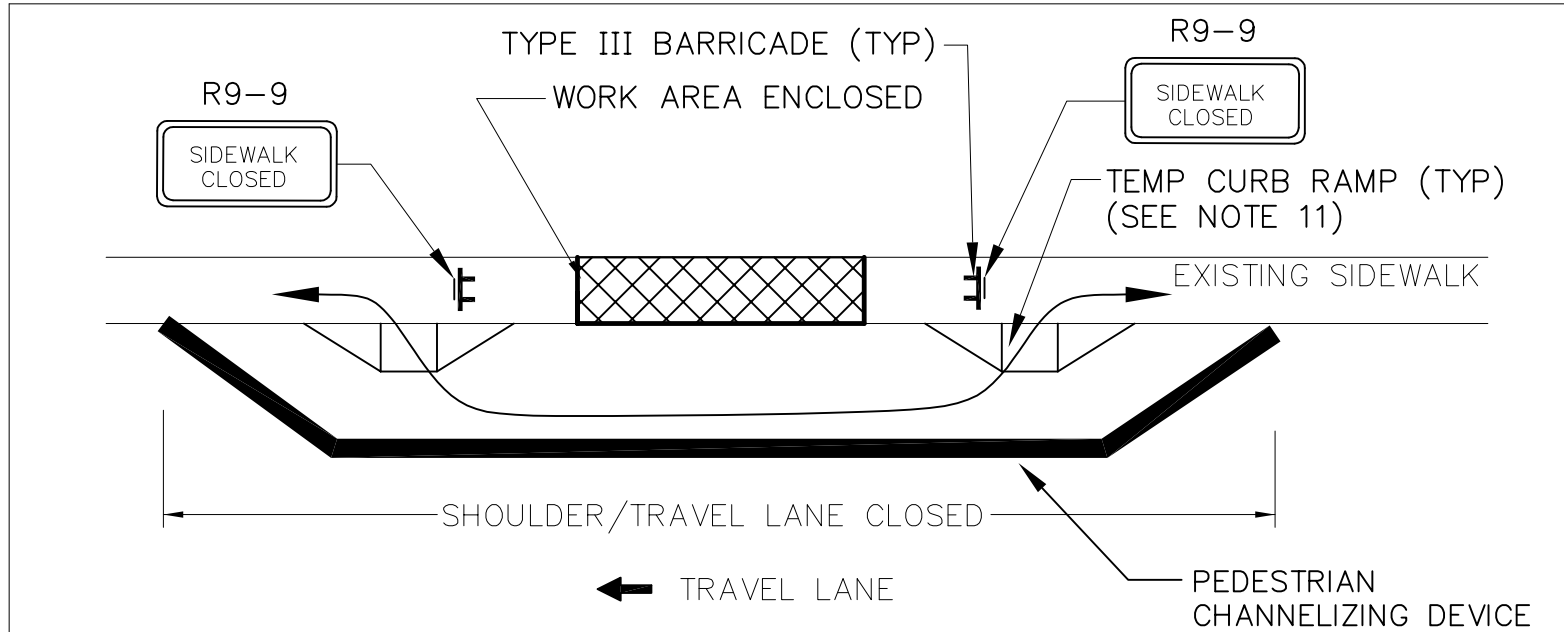


TWO LANE BI-DIRECTIONAL TRAFFIC AT INTERSECTIONS

NOTE:
1. ADVANCE WARNING SIGN PLACEMENT TO BE ADJUSTED AS NECESSARY

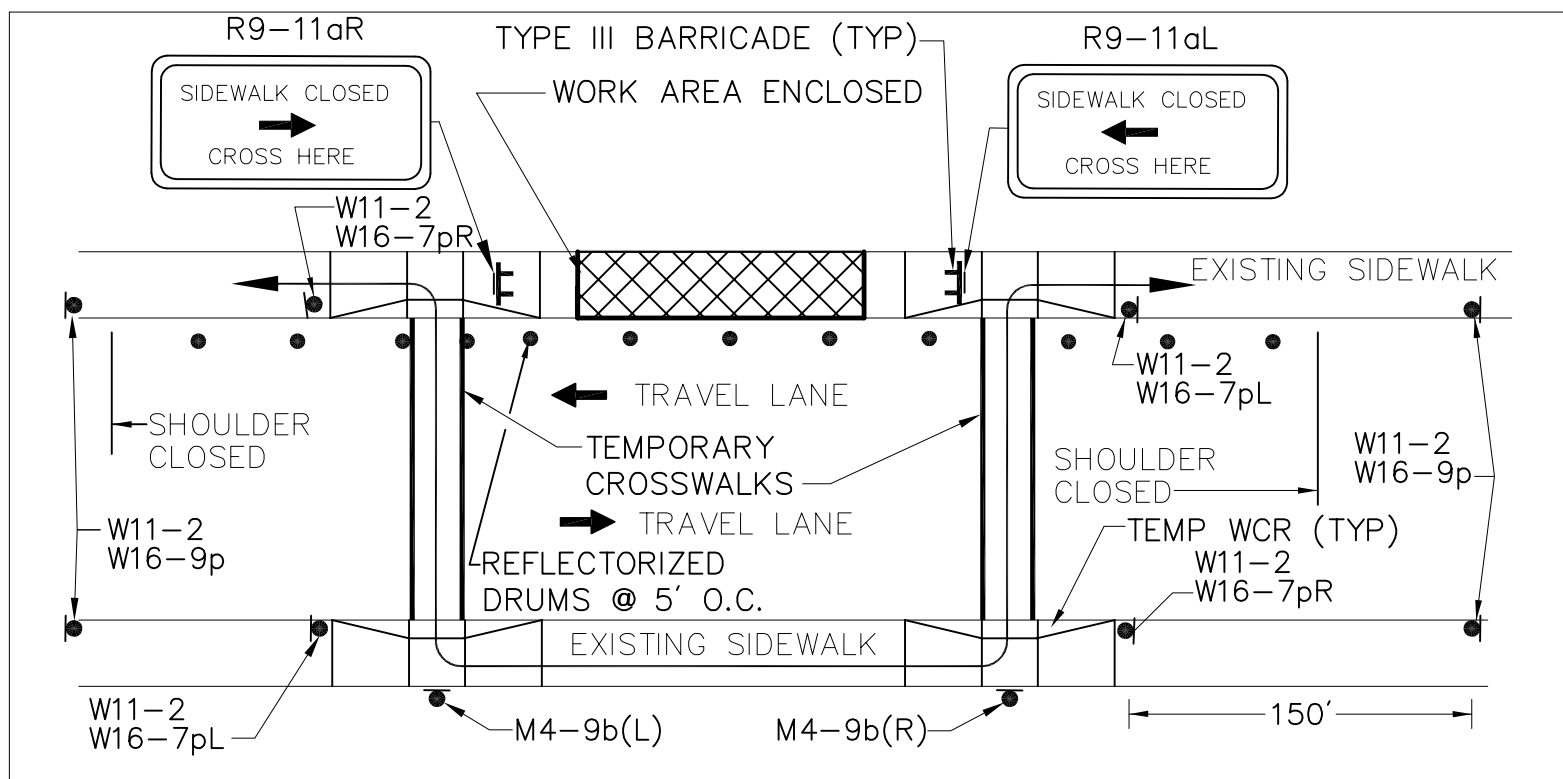
PEDESTRIAN BYPASS

TO BE USED IN CONJUNCTION WITH THE PROPOSED LANE CLOSURE DETAILS AND DURING CONSTRUCTION STAGING AND AS DIRECTED BY THE ENGINEER.



TYPE I

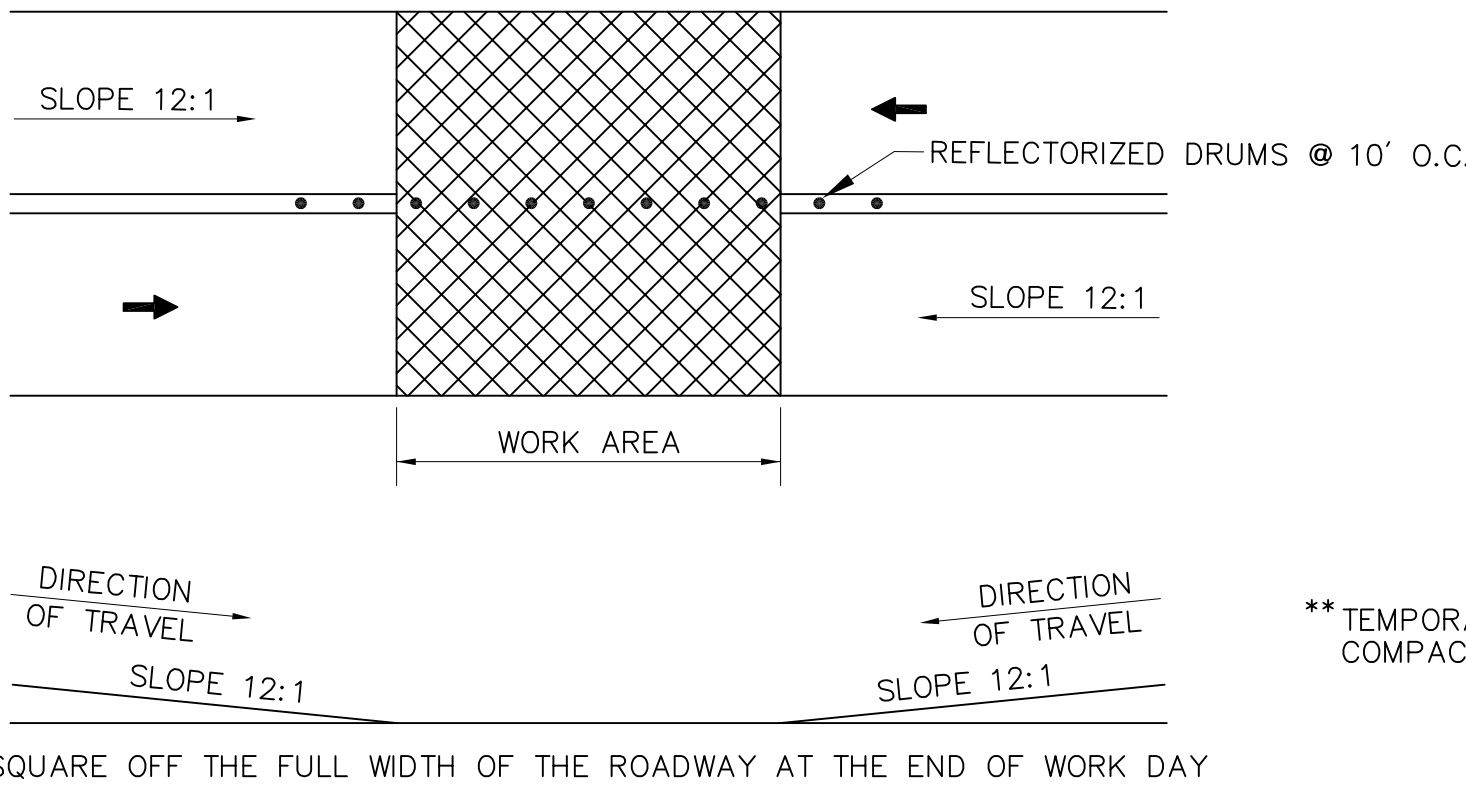
NTS



TYPE II

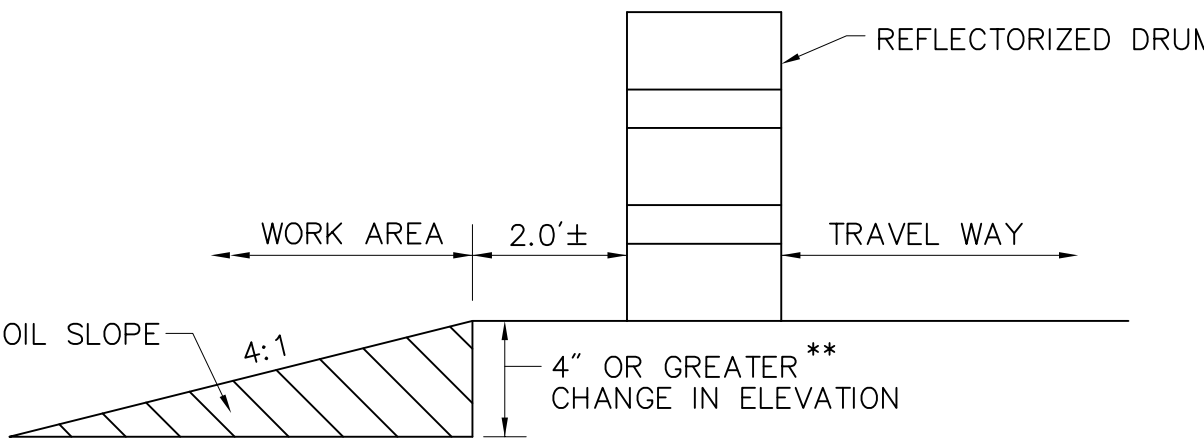
NTS

- NOTES:
- ADDITIONAL ADVANCE WARNING SIGNS MAY BE NECESSARY AS DETERMINED BY THE ENGINEER.
 - CONTROLS FOR PEDESTRIAN TRAFFIC ONLY, ARE SHOWN. VEHICULAR TRAFFIC SHALL BE MAINTAINED AS SHOWN ELSEWHERE.
 - STREET LIGHTING SHOULD BE CONSIDERED WHEN LOCATING CONTROL DEVICES.
 - INDICATES DIRECTION OF PEDESTRIAN TRAVEL.
 - IF THE WORK ZONE DOES NOT PERMIT PEDESTRIANS TO TRAVEL ADJACENT TO IT AS SHOWN IN PEDESTRIAN BYPASS TYPE I, TEMPORARY CROSSWALKS WITH THE APPROPRIATE SIGNS SHALL BE INSTALLED TO CROSS PEDESTRIANS TO THE OPPOSITE SIDE OF THE STREET AS SHOWN IN PEDESTRIAN BYPASS TYPE II, AND AS DIRECTED BY THE ENGINEER.
 - PROPOSED TEMPORARY CROSSWALKS SHALL BE 12" WIDE SURFACE APPLIED TAPE OR REFLECTORIZED PAINT AS DIRECTED BY THE ENGINEER.
 - ALL TEMPORARY PEDESTRIAN PATHWAYS SHALL COMPLY FULLY WITH ALL REQUIREMENTS OF THE MUTCD AND ALL APPLICABLE MAAB AND ADAAG REQUIREMENTS.
 - CONTRACTOR SHALL MAINTAIN AS WIDE OF A PEDESTRIAN ACCESS AS POSSIBLE AT ALL TIMES. EXCEPT WHERE NECESSARY, THE CONTRACTOR MAY TEMPORARILY REDUCE PEDESTRIAN PATHWAYS TO 4 FEET IN WIDTH (EXCLUDING CURB) FOR NO MORE THAN 200 LINEAR FEET AT A TIME IN ACCORDANCE WITH ALL STANDARDS.
 - TEMPORARY WHEELCHAIR RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH MASSDOT, MAAB, AND ADAAG REQUIREMENTS.
 - FOR THE TYPE 2 BYPASS, W16-7pR OR W16-7pL SIGNS SHALL BE USED IN COMBINATION WITH W11-2 SIGNS AS DIRECTED BY THE ENGINEER.
 - EXISTING WHEELCHAIR RAMPS (WCR) MAY BE USED IN LIEU OF TEMPORARY WHEELCHAIR RAMPS FOR TEMPORARY DETOURS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
 - TEMP IMPACT ATTENUATOR SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.



TEMPORARY PAVEMENT TRANSITION DETAIL

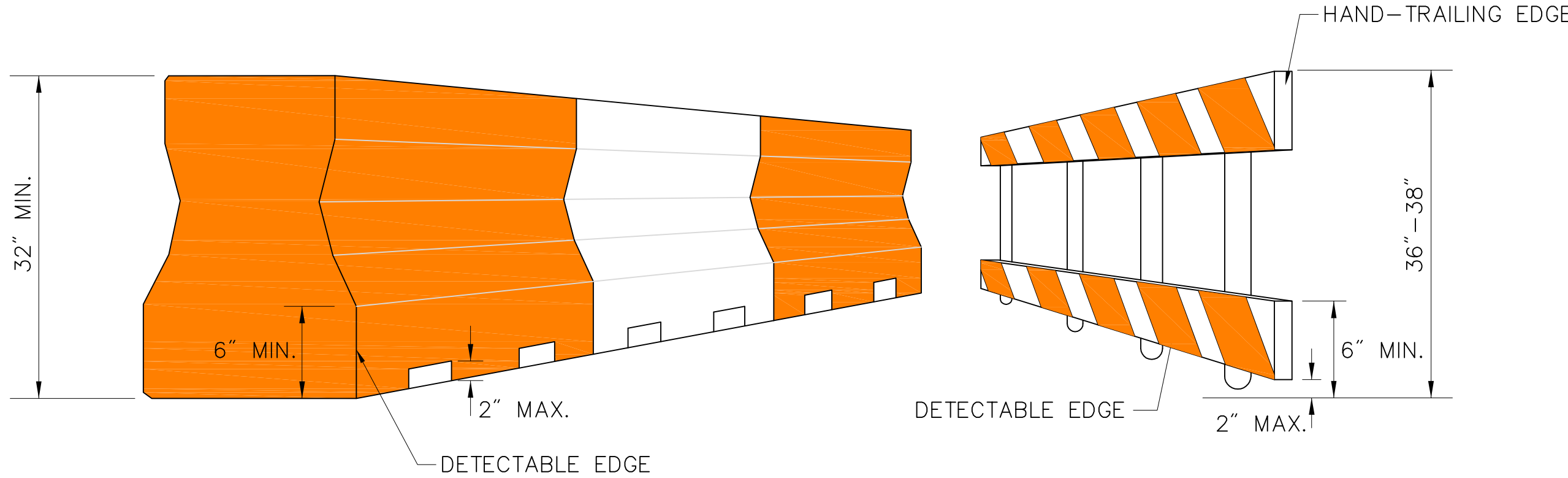
NOT TO SCALE



ROADWAY SLOPE PROTECTION

NOT TO SCALE

- NOTES:
- TO PREVENT ANY TRIPPING HAZARD TO PEDESTRIANS, BALLAST SHALL BE LOCATED BEHIND OR INTERNAL TO THE DEVICE. ANY SUPPORT ON THE FRONT OF THE DEVICE SHALL NOT EXTEND INTO THE 48 IN. MINIMUM WALKWAY CLEAR SPACE AND SHALL HAVE 0.5 IN. MAXIMUM HEIGHT ABOVE THE WALKWAY SURFACE WITH APPROVED BEVELING.
 - DETECTABLE EDGES FOR LONG CANES SHALL BE CONTINUOUS AND 6 IN. MIN HIGH ABOVE THE WALKWAY SURFACE AND HAVE COLOR OR MARKINGS CONTRASTING WITH THE WALKWAY SURFACE.
 - DEVICES SHALL NOT BLOCK WATER DRAINAGE FROM THE WALKWAY. A GAP HEIGHT OR OPENING FROM THE WALKWAY SURFACE UP TO 2 IN. MAXIMUM HEIGHT IS ALLOWED FOR DRAINAGE PURPOSES.
 - RAILINGS OR OTHER OBJECTS MAY PROTRUDE A MAXIMUM OF 4 IN. INTO THE WALKWAY CLEAR SPACE WHEN LOCATED 27 IN. MINIMUM ABOVE THE WALKWAY SURFACE.
 - LONGITUDINAL CHANNELIZING DEVICES FOR PEDESTRIANS SHALL BE 32 IN. HIGH OR GREATER.
 - WHEN HAND GUIDANCE IS REQUIRED, THE TOP RAIL OR TOP SURFACE SHALL:
 - BE IN A VERTICAL PLANE PERPENDICULAR TO THE WALKWAY ABOVE THE DETECTABLE EDGE,
 - BE CONTINUOUS AT A HEIGHT OF 36 TO 38 IN. ABOVE THE WALKWAY SURFACE, AND
 - BE SUPPORTED WITH MINIMAL INTERFERENCE TO THE PEDESTRIAN'S HANDS OR FINGERS.
 - ALL DEVICES SHALL BE FREE OF SHARP OR ROUGH EDGES, AND FASTENERS (BOLTS) SHALL BE ROUNDED TO PREVENT HARM TO HANDS, ARMS OR CLOTHING OF PEDESTRIANS.
 - ALL DEVICES USED TO CHANNELIZE PEDESTRIAN FLOW SHOULD INTERLOCK SUCH THAT GAPS DO NOT ALLOW PEDESTRIANS TO STRAY FROM THE CHANNELIZED PATH.
 - ANY PEDESTRIAN DEVICES USED TO PROVIDE POSITIVE PROTECTION (TRAFFIC OR HAZARD) FOR PEDESTRIANS OR WORKERS SHALL MEET CRASHWORTHY REQUIREMENTS APPROPRIATE FOR THE BARRIERS' APPLICATION.



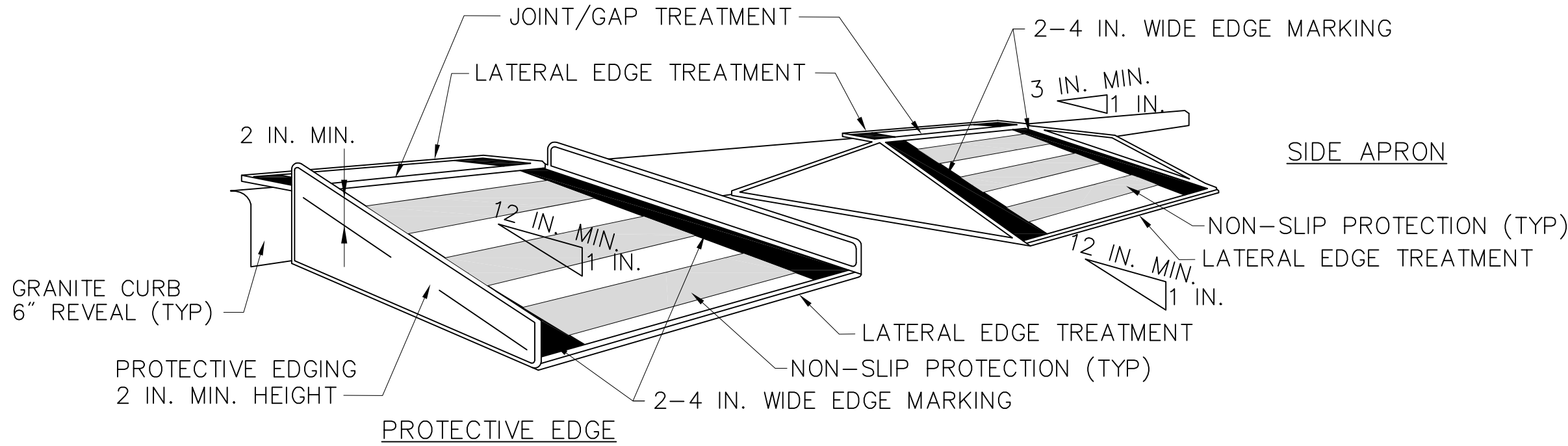
DETECTABLE EDGE
USING A LONGITUDINAL CHANNELIZER

DETECTABLE EDGE
SHOWN ON A RAILING SYSTEM

PEDESTRIAN CHANNELIZING DEVICE WITH DETECTABLE EDGES

SCALE: NOT TO SCALE
DATE DECEMBER 2012
DWG: WCR-04

- NOTES:
1. CURB RAMPS SHALL BE 48 IN. MINIMUM WIDTH WITH A FIRM, STABLE AND NON-SLIP SURFACE.
 2. PROTECTIVE EDGING WITH A 2 IN. MINIMUM HEIGHT SHALL BE INSTALLED WHEN THE CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6 IN. OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN THE CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3 IN. OR MORE.
 3. DETECTABLE EDGING WITH 6 IN. MINIMUM HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
 4. CURB RAMPS AND LANDINGS SHOULD HAVE A 1:50 (2%) MAX CROSS-SLOPE.
 5. CLEAR SPACE OF 48x48 IN. MINIMUM SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP. A DETECTABLE WARNING PANEL SHALL BE PROVIDED BELOW THE CURB RAMP.
 6. THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A CONTRASTING COLOR 2 TO 4 IN. WIDE MARKING. THE MARKING IS OPTIONAL WHERE COLOR CONTRASTING EDGING IS USED.
 7. WATER FLOW IN THE GUTTER SYSTEM SHALL HAVE MINIMAL RESTRICTION.
 8. LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 0.5 IN. WIDTH.
 9. CHANGES BETWEEN SURFACE HEIGHTS SHOULD NOT EXCEED 0.5 IN. LATERAL EDGES SHOULD BE VERTICAL UP TO 0.25 IN. HIGH, AND BEVELED AT 1:2 BETWEEN 0.25 IN. AND 0.5 IN. HEIGHT.



TEMPORARY CURB RAMP—PERPENDICULAR TO CURB

SCALE: NOT TO SCALE

DATE DECEMBER 2012

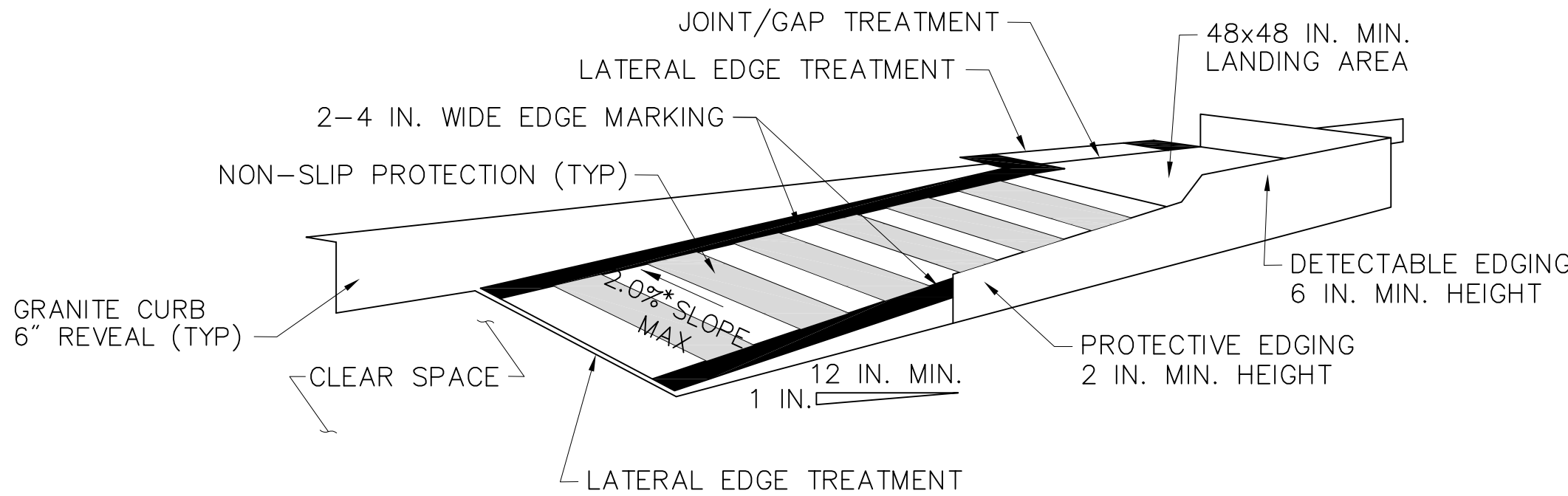
DWG: WCR-02

SPRINGFIELD NORTH END/BRIGHTWOOD – NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	92	145
PROJECT FILE NO. 605222			

TEMPORARY TRAFFIC CONTROL PLANS

- NOTES:
1. CURB RAMPS SHALL BE 48 IN. MINIMUM WIDTH WITH A FIRM, STABLE AND NON-SLIP SURFACE.
 2. PROTECTIVE EDGING WITH A 2 IN. MINIMUM HEIGHT SHALL BE INSTALLED WHEN THE CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6 IN. OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN THE CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3 IN. OR MORE.
 3. DETECTABLE EDGING WITH 6 IN. MINIMUM HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
 4. CURB RAMPS AND LANDINGS SHOULD HAVE A 1:50 (2%) MAX CROSS-SLOPE.
 5. CLEAR SPACE OF 48x48 IN. MINIMUM SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP. A DETECTABLE WARNING PANEL SHALL BE PROVIDED BELOW THE CURB RAMP.
 6. THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A CONTRASTING COLOR 2 TO 4 IN. WIDE MARKING. THE MARKING IS OPTIONAL WHERE COLOR CONTRASTING EDGING IS USED.
 7. WATER FLOW IN THE GUTTER SYSTEM SHALL HAVE MINIMAL RESTRICTION.
 8. LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 0.5 IN. WIDTH.
 9. CHANGES BETWEEN SURFACE HEIGHTS SHOULD NOT EXCEED 0.5 IN. LATERAL EDGES SHOULD BE VERTICAL UP TO 0.25 IN. HIGH, AND BEVELED AT 1:2 BETWEEN 0.25 IN. AND 0.5 IN. HEIGHT.



TEMPORARY CURB RAMP—PARALLEL TO CURB

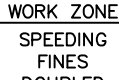
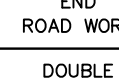
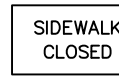
SCALE: NOT TO SCALE

DATE DECEMBER 2012

DWG: WCR-01

TEMPORARY TRAFFIC CONTROL SIGNS

IDENTIFI- CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			COLOR		
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.	BACK- GROUND	LEGEND	BORDER
W20-1a	48"	48"		SEE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS			ORANGE	BLACK	BLACK
W20-1b	48"	48"					ORANGE	BLACK	BLACK
W20-1c	48"	48"					ORANGE	BLACK	BLACK
W20-4	36"	36"					ORANGE	BLACK	BLACK
W20-8	36"	36"					ORANGE	BLACK	BLACK
W20-7a	36"	36"					ORANGE	BLACK	BLACK
W3-2	36"	36"					ORANGE	BLACK	BLACK
W3-4	36"	36"					ORANGE	BLACK	BLACK
W5-1	36"	36"					ORANGE	BLACK	BLACK
W13-1(XX)	24"	30"					ORANGE	BLACK	BLACK
W1-4R	30"	30"					ORANGE	BLACK	BLACK
W1-4L	30"	30"					ORANGE	BLACK	BLACK
W4-2R	36"	36"					ORANGE	BLACK	BLACK
W4-2L	36"	36"					ORANGE	BLACK	BLACK

IDENTIFI- CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			COLOR		
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.	BACK- GROUND	LEGEND	BORDER
W20-5c(L)	36"	36"		SEE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS			ORANGE	BLACK	BLACK
W20-5c(R)	36"	36"					ORANGE	BLACK	BLACK
W8-14	36"	36"		SEE MASSDOT STANDARD DETAILS AND DRAWINGS FOR TRAFFIC MANAGEMENT PLANS			ORANGE	BLACK	BLACK
R2-10a	48"	60"					ORANGE WHITE	BLACK BLACK	BLACK BLACK
R2-10e	36"	48"					ORANGE WHITE	BLACK BLACK	BLACK BLACK
R9-9	18"	30"		SEE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS			WHITE	BLACK	BLACK
R9-11aL	24"	48"					WHITE	BLACK	BLACK
R9-11aR	24"	48"					WHITE	BLACK	BLACK
M4-9b(L)	24"	30"					ORANGE	BLACK	BLACK
M4-9b(R)	24"	30"					ORANGE	BLACK	BLACK

* POSTS FOR TEMPORARY SIGNAGE TO BE APPROVED BY ENGINEER

NOTE: THE CONTRACTOR SHALL COVER ANY ADVANCE SIGNAGE IF THE SIGNAGE FROM A DAILY OPERATIONAL SETUP INTERFERES WITH THE ADVANCE SIGNING.

SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

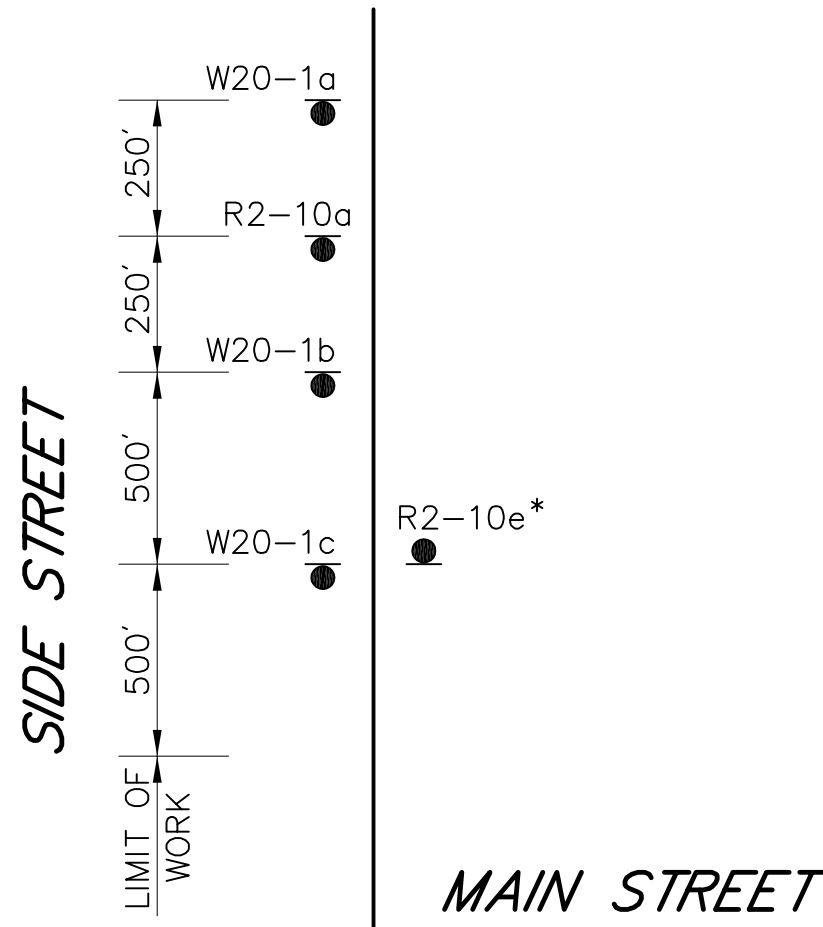
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	94	145

PROJECT FILE NO. 605222

TEMPORARY TRAFFIC
CONTROL PLANS

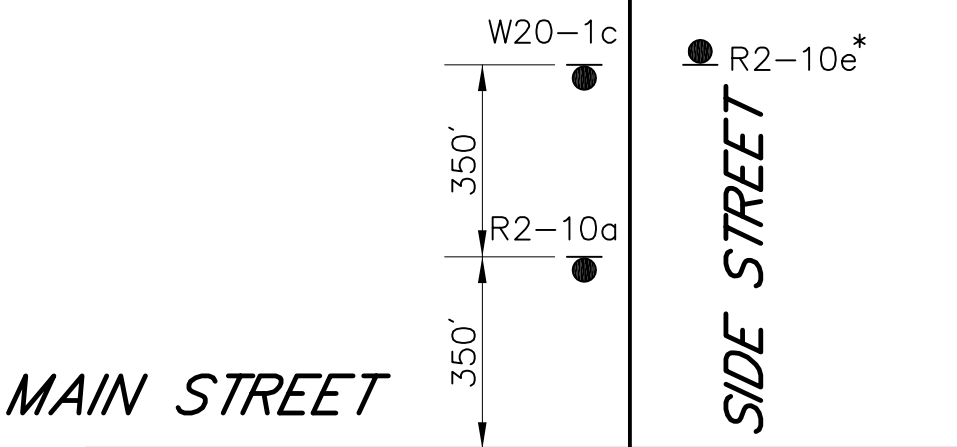
LEGEND

TYPE OF ADVANCE SIGN
SCHEMATIC AT APPROACH



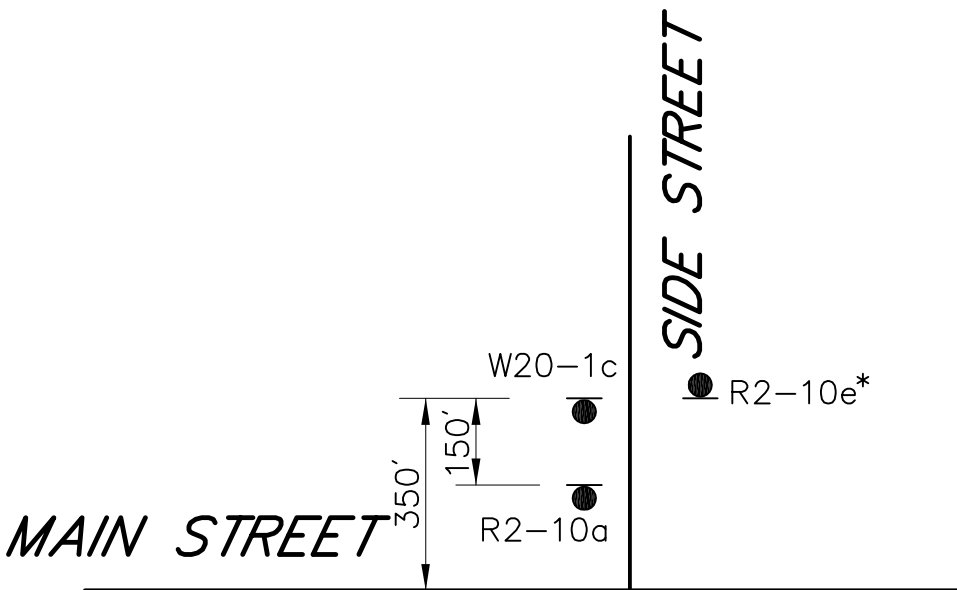
TYPE 1 SIDE STREET
ADVANCE SIGN SCHEMATIC

NTS



TYPE 2 SIDE STREET
ADVANCE SIGN SCHEMATIC

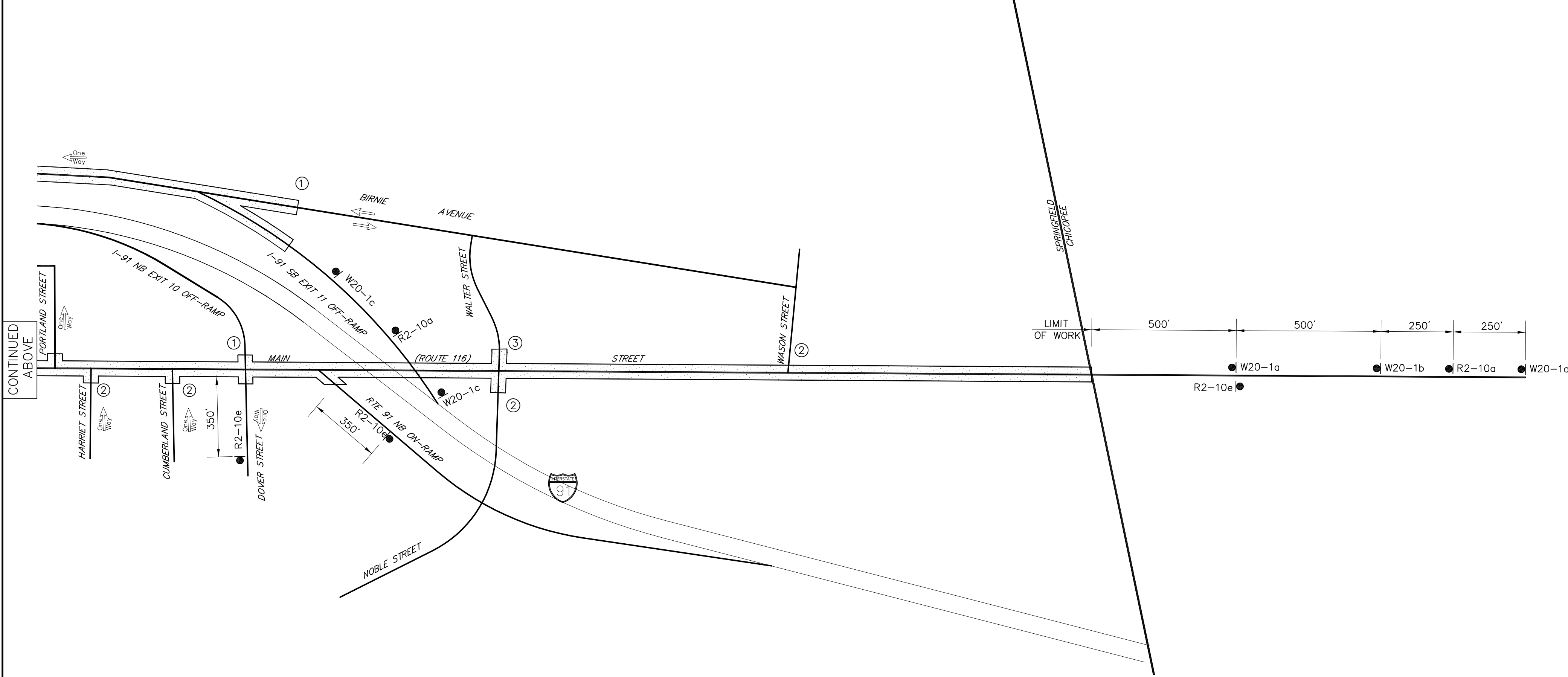
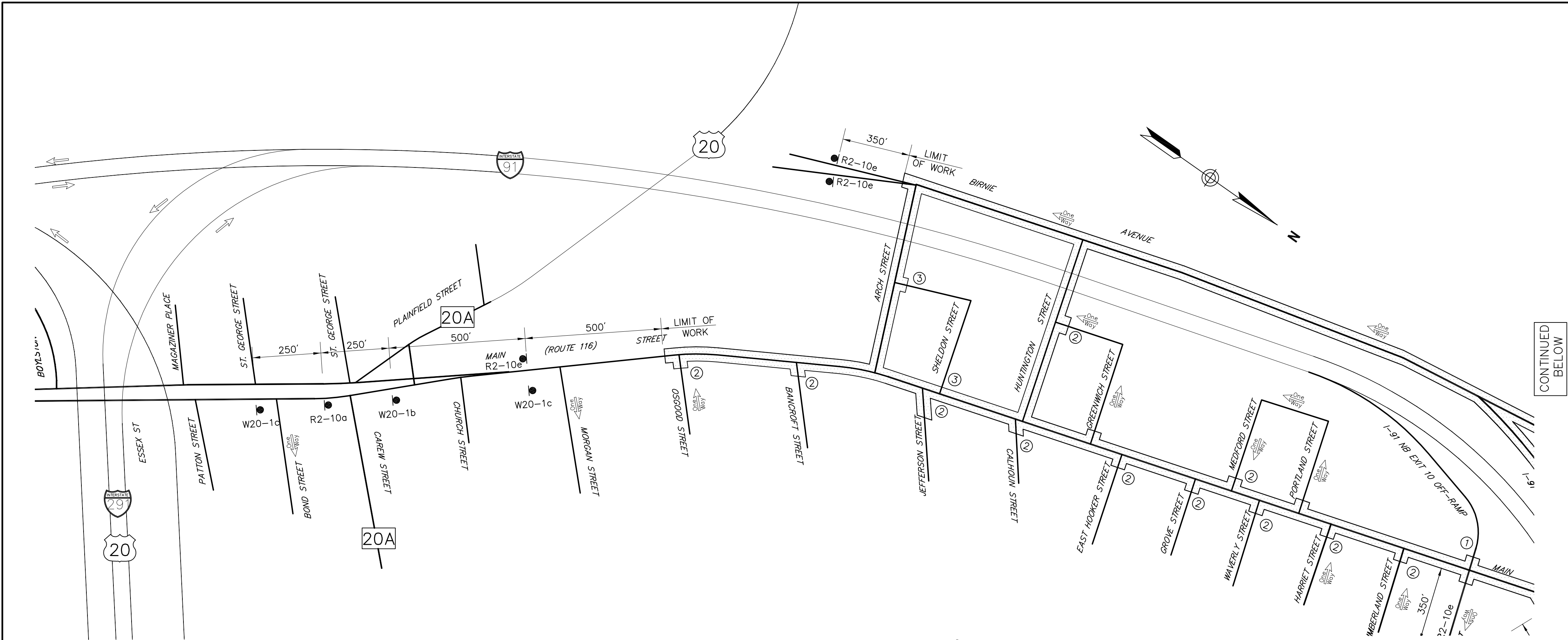
NTS



TYPE 3 SIDE STREET
ADVANCE SIGN SCHEMATIC

NTS

*AT ONE-WAY STREETS, R2-10e SIGN
TO BE PLACED ON OPPOSITE SIDE OF
INTERSECTION FACING TRAFFIC.

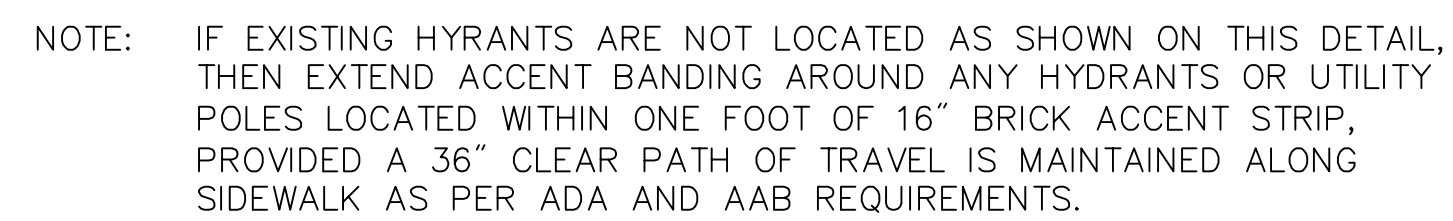


ADVANCE SIGN SCHEMATIC

NTS

SIGNS TO BE INSTALLED AT THE PROJECT
LIMITS AS SHOWN.
ALL ADVANCE SIGNS TO BE IN PLACE FOR
THE DURATION OF THE PROJECT.

CONSTRUCTION DETAILS



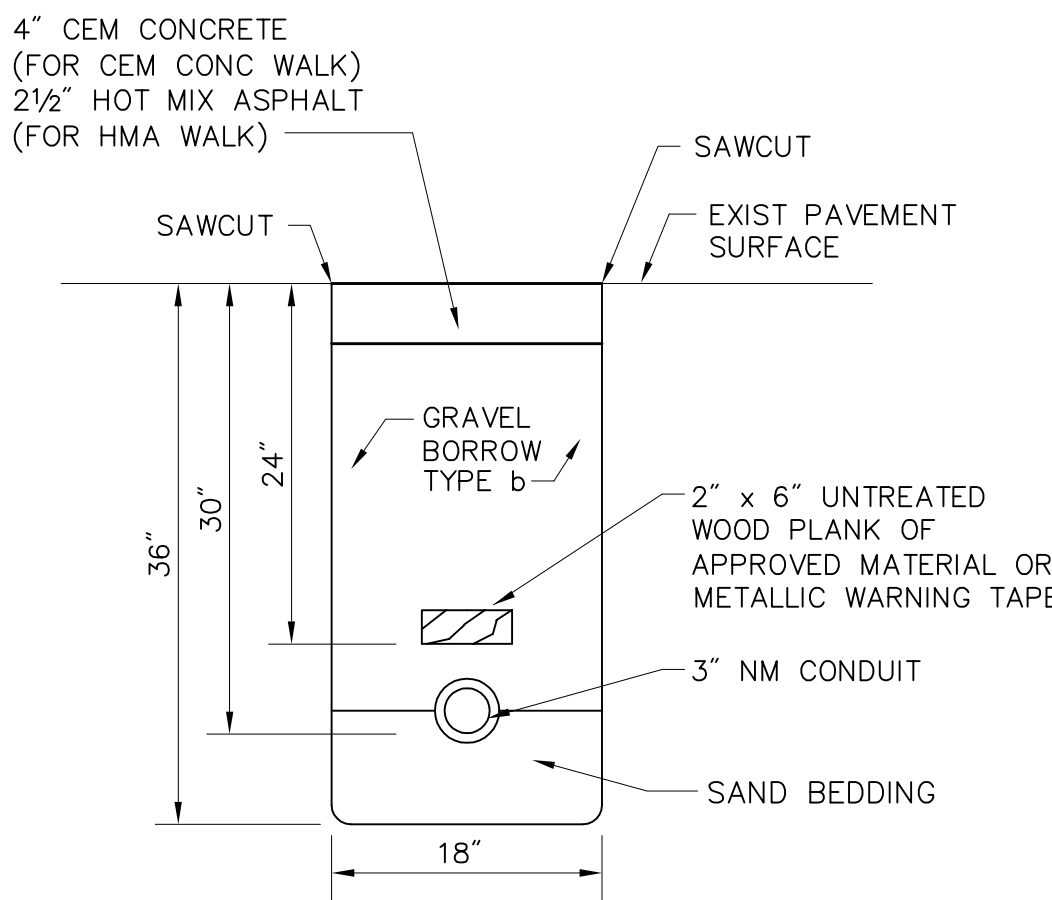
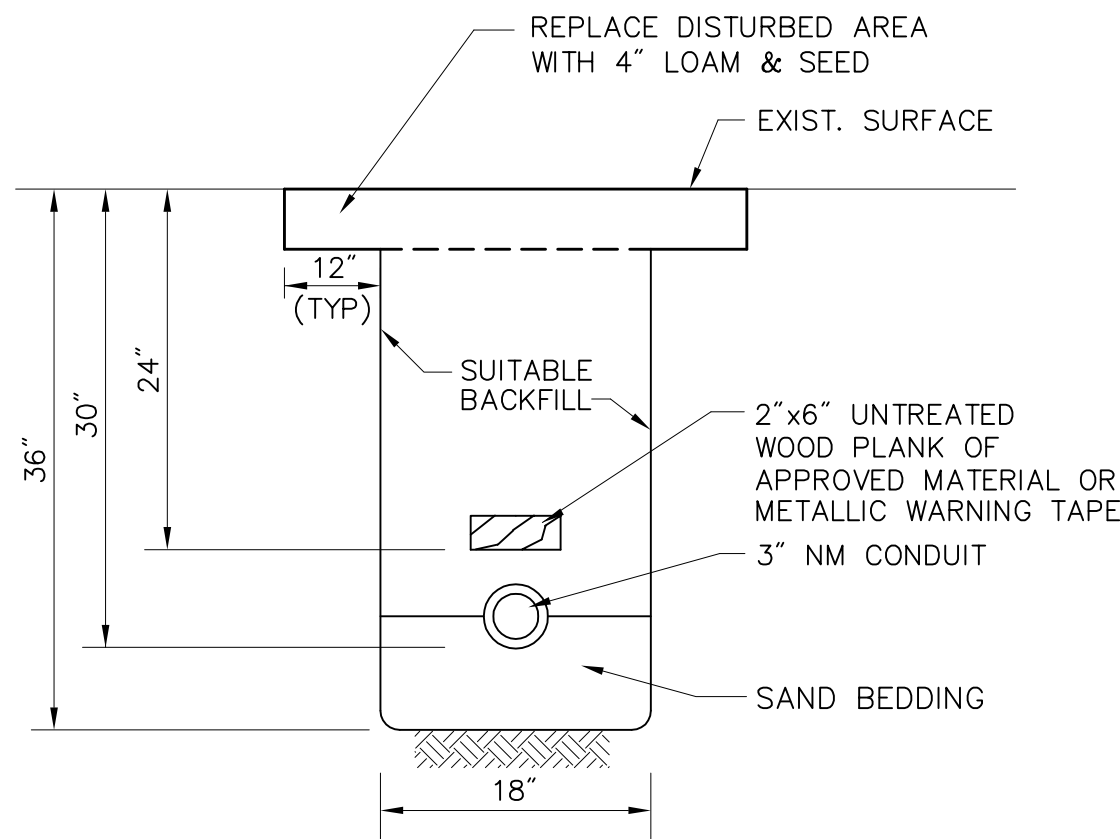
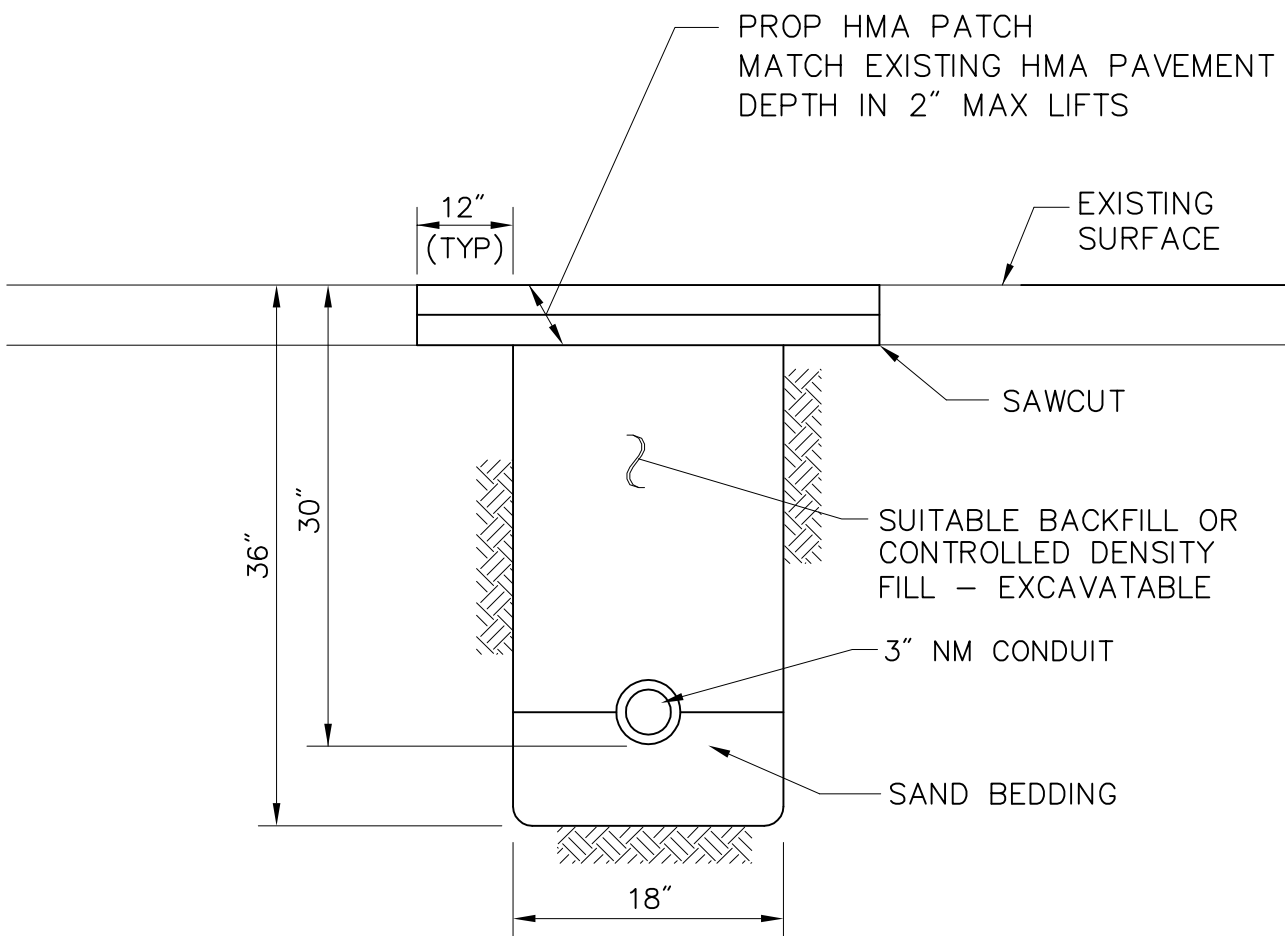
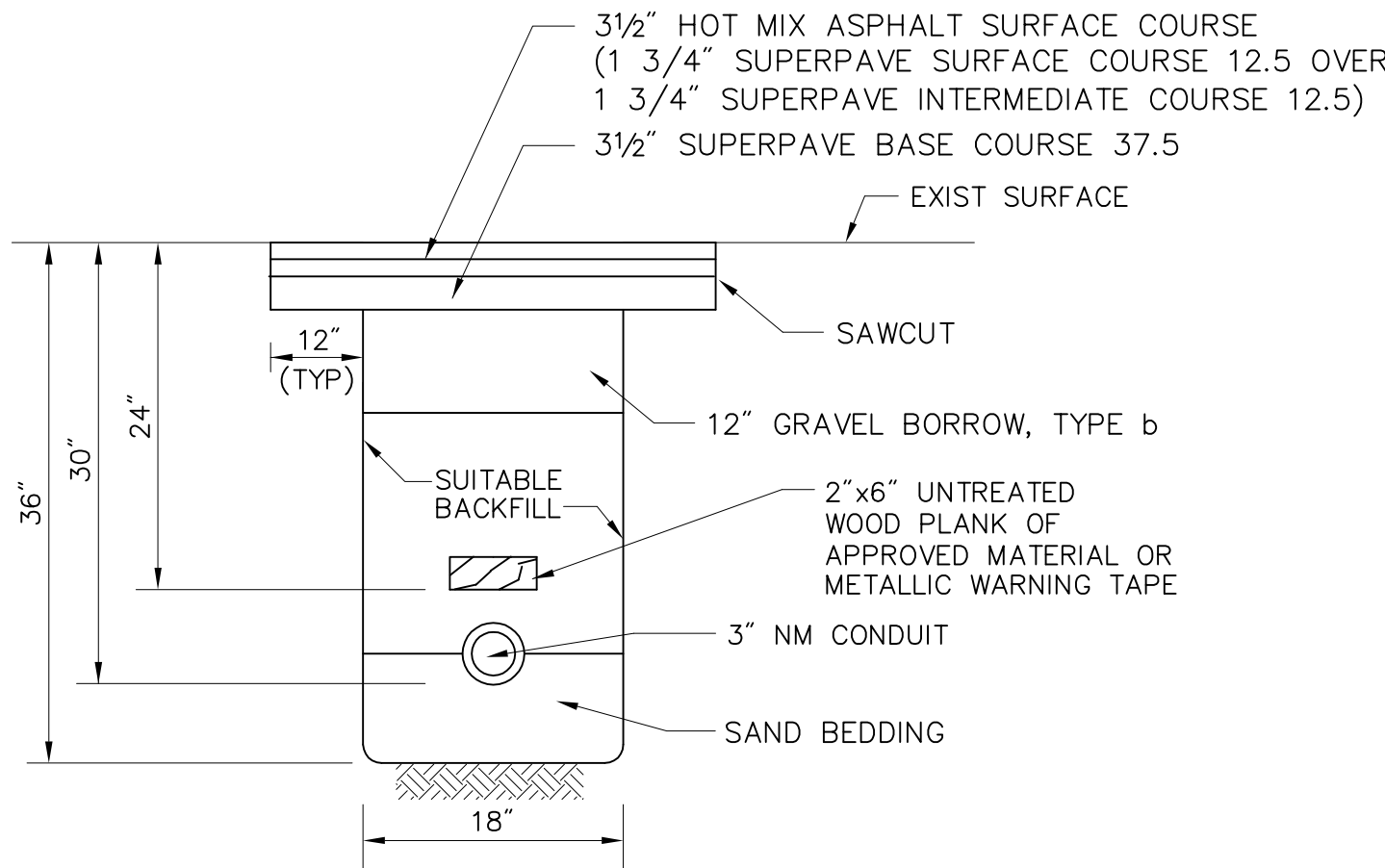
* TOLERANCE FOR CONSTRUCTION $\pm 0.5\%$



SPRINGFIELD
NORTH END/BRIGHTWOOD – NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	96	145
PROJECT FILE NO. 605222			

CONSTRUCTION DETAILS



CONDUIT CROSSING ROADWAY
IN FULL DEPTH PAVEMENT

SCALE: NOT TO SCALE
DATE: APRIL 2003
DWG: TRENCH-02

CONDUIT CROSSING ROADWAY
IN PAVEMENT MILLING & OVERLAY

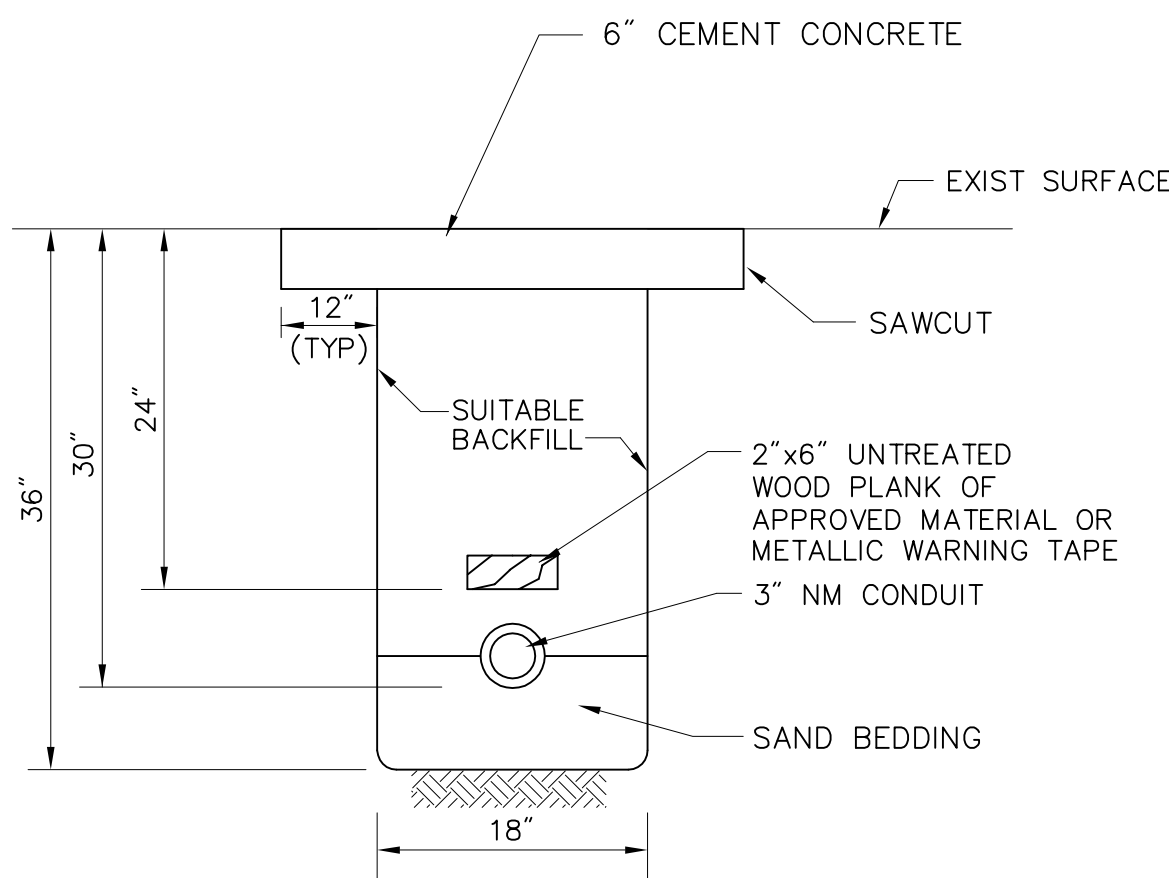
SCALE: NOT TO SCALE
DATE: APRIL 2003
DWG: TRENCH-01

CONDUIT IN GRASS

SCALE: NOT TO SCALE
DATE: APRIL 2003
DWG: TRENCH-02

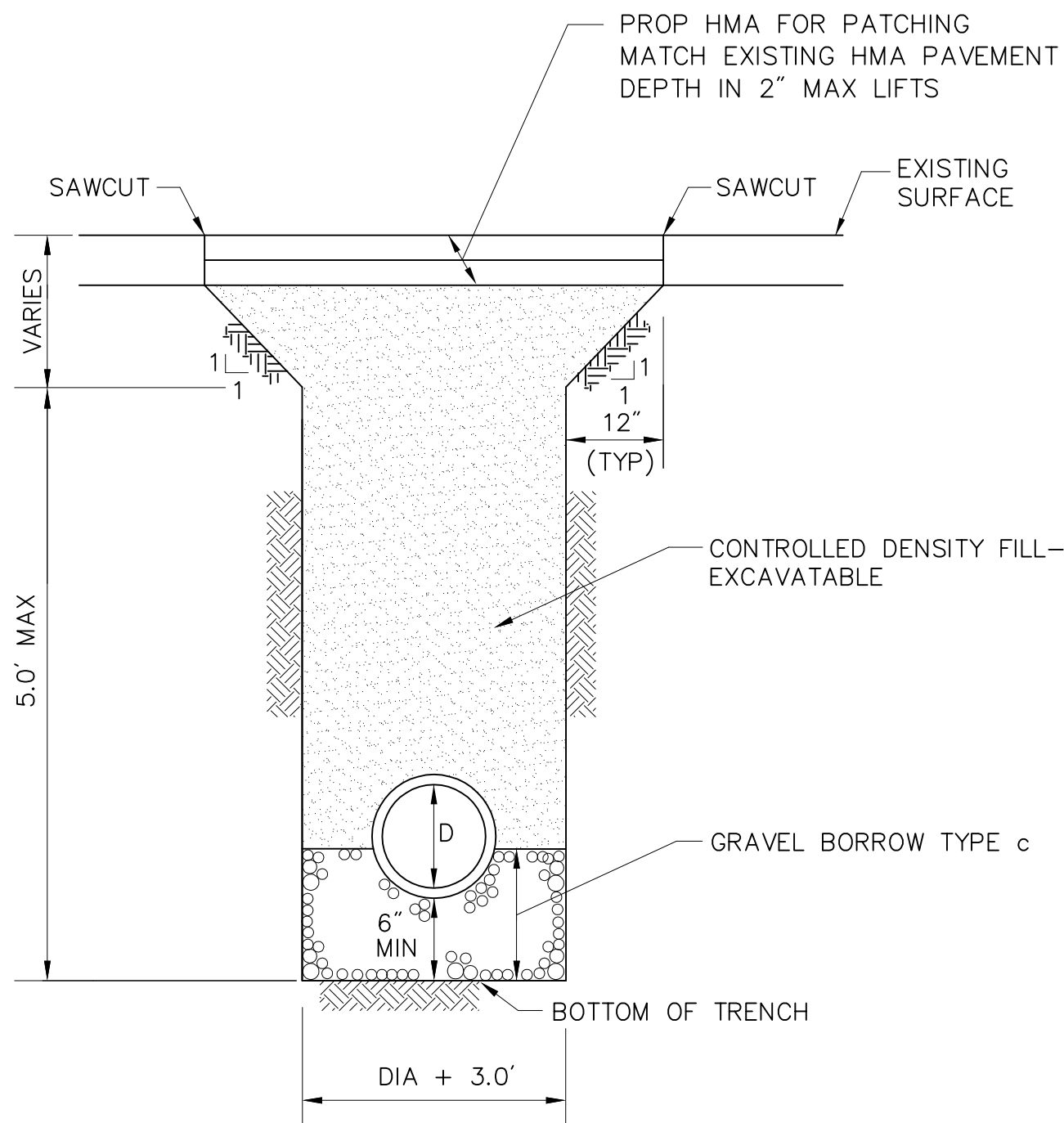
CONDUIT IN SIDEWALK

SCALE: NOT TO SCALE
DATE: APRIL 2003
DWG: TRENCH-03



CONDUIT CROSSING
CEMENT CONCRETE DRIVEWAY

SCALE: NOT TO SCALE
DATE: APRIL 2003
DWG: TRENCH-02



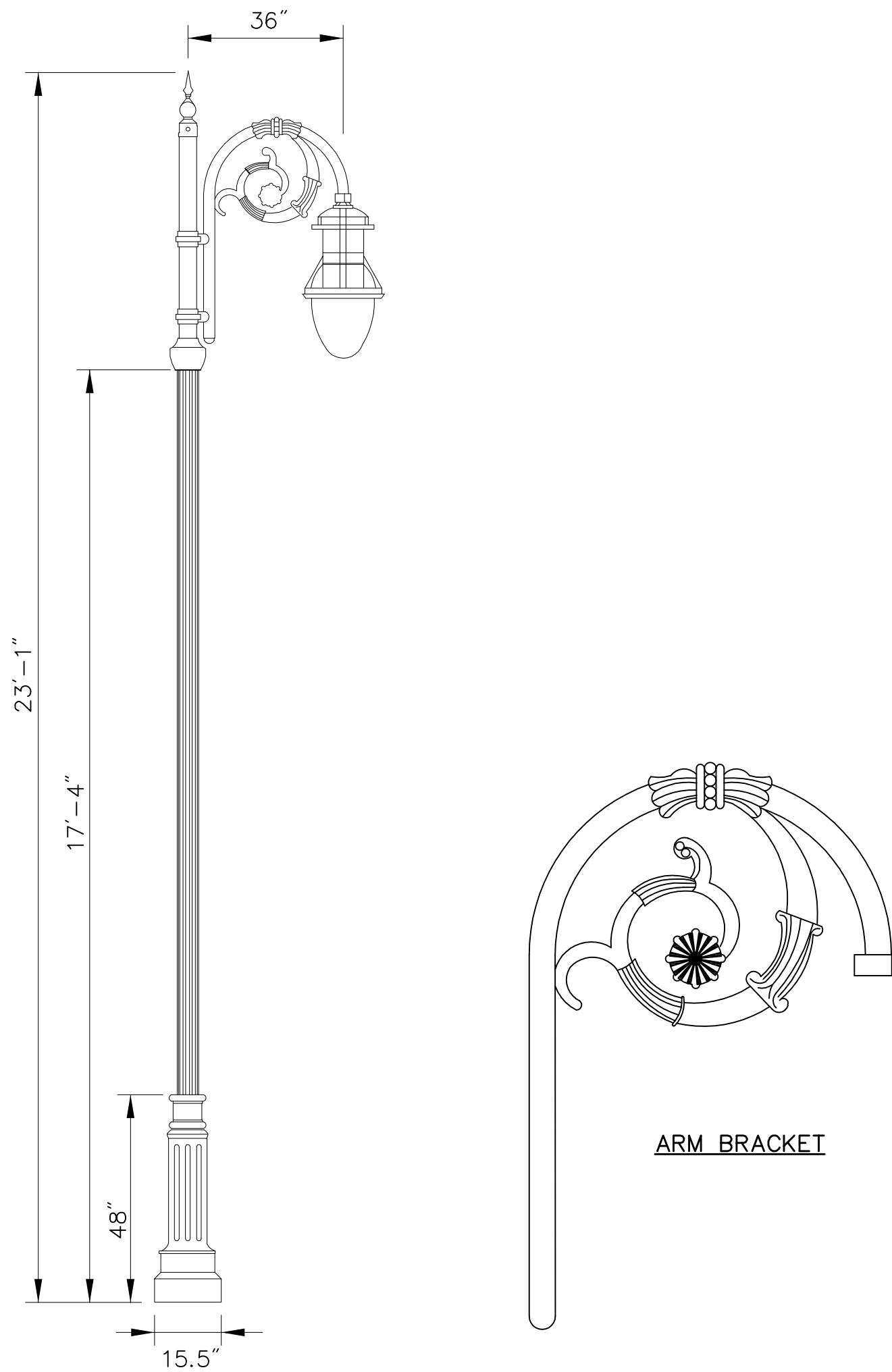
TRENCH DETAIL FOR PIPE IN
PAVEMENT MILLING & OVERLAY

SCALE: NOT TO SCALE
DATE: APRIL 2003
DWG: TRENCH-04

SPRINGFIELD
NORTH END/BRIGHTWOOD – NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	97	145
PROJECT FILE NO. 605222			

CONSTRUCTION DETAILS

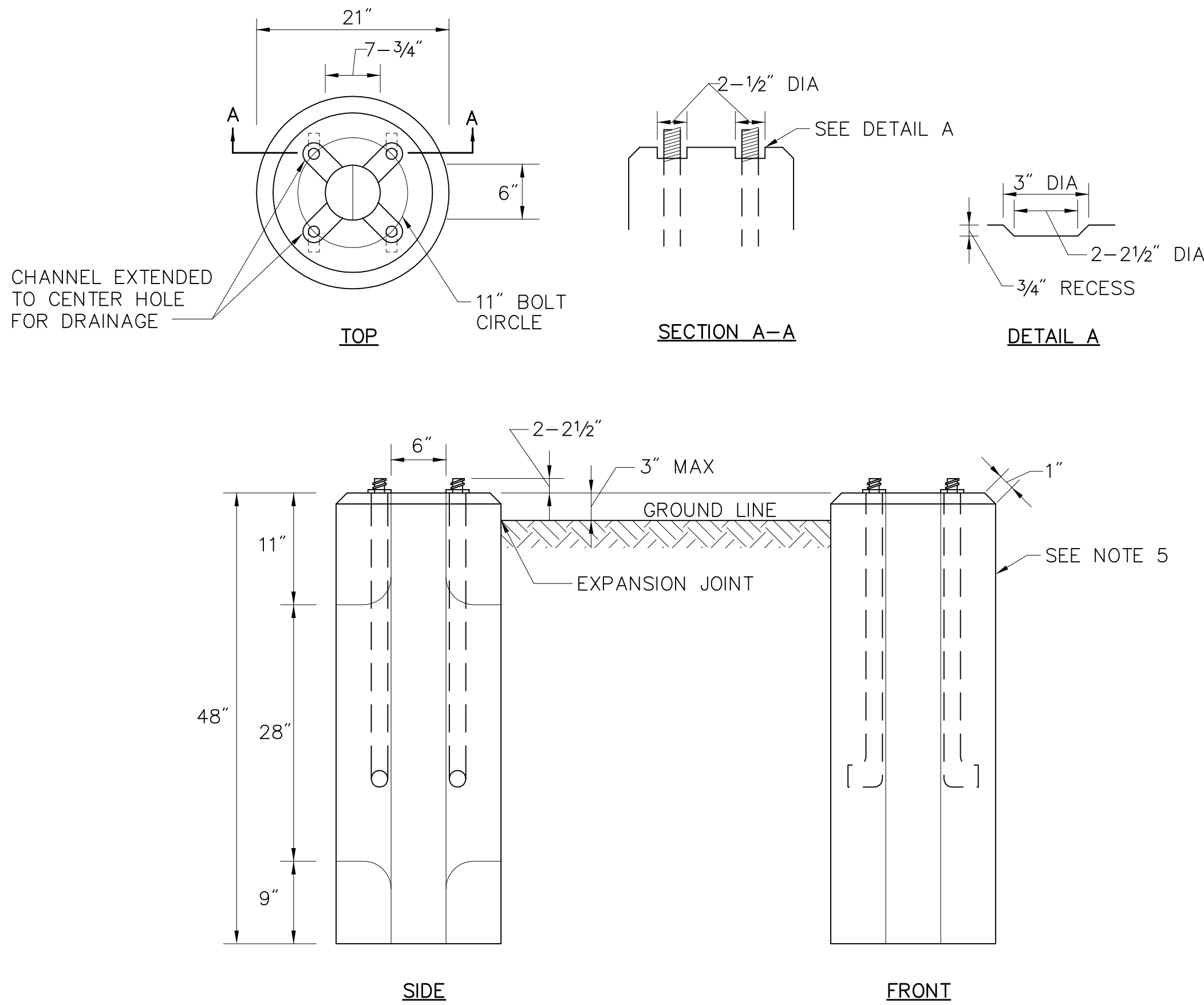


STREET LIGHTING NOTES:

1. WESTERN MASS ELECTRIC CO. (WMECO) WILL REMOVE ALL EXISTING STREET LIGHT POLES LABELED "REM EXIST LP".
2. WHERE NEW STREET LIGHT POLES ARE PROPOSED OVER EXISTING LIGHT POLES, WMECO WILL REMOVE THE UNDERGROUND ELECTRIC CABLE AND INSTALL A PULL STRING.
3. THE CONTRACTOR SHALL REMOVE ALL EXISTING BASE FOUNDATIONS.
4. THE CONTRACTOR SHALL INSTALL ALL NEW BASE FOUNDATIONS, BENDS AND TIE OFF PULL STRINGS, WHERE APPROPRIATE.
5. THE CONTRACTOR SHALL INSTALL ALL NEW CONDUIT AS SHOWN ON THE PLANS. WESTERN MASS ELECTRIC CO. WILL PROVIDE A 12" STUB FROM EXISTING MANHOLES FOR CONNECTION TO THE NEW CONDUIT.
6. THE CONTRACTOR SHALL SWEEP THE CONDUIT INTO ALL NEW BASE FOUNDATIONS.
7. WMECO WILL SUPPLY AND INSTALL THE NEW LIGHT POLES AND FIXTURES.

DECORATIVE LIGHT POLE ARM BRACKET AND
LUMINAIRE (SUPPLIED & INSTALLED BY CITY/WMECO)

SCALE: NOT TO SCALE
DATE: FEB 2007
DWG:



NOTES:

1. CONCRETE AND CONCRETE DESIGN SHALL BE IN ACCORDANCE WITH ACI 318-1986.
2. FINAL 28-DAY CONCRETE STRENGTH SHALL BE 5000 PSI.
3. ANCHOR BOLTS TO BE STEEL PER ASTM A36-1987E1, 3/4" X 24" WITH 3" LEG, ROLLED THREADS PREFERRED, 4" THREAD, WITH GALVANIZED HEX NUT AND ROUND FLAT GALVANIZED WASHER. THREADED END TO BE GALVANIZED A MINIMUM OF 6 INCHES.
4. THE 6 INCH HANDHOLE AT CENTER OF BOLT CIRCLE PROJECTS INTO A 6 INCH WIDE SLOT 28 INCHES HIGH THROUGH THE BASE.
5. MANUFACTURER'S IDENTIFICATION AND MONTH/YEAR WHEN MANUFACTURED SHALL BE LEGIBLY MARKED IN/ON CONCRETE WITHIN 3 INCHES OF TOP.
6. NUSCO SC 0415436 SHALL BE WRITTEN ON SIDE OF BASE WITH AN INDELIBLE MARKER.

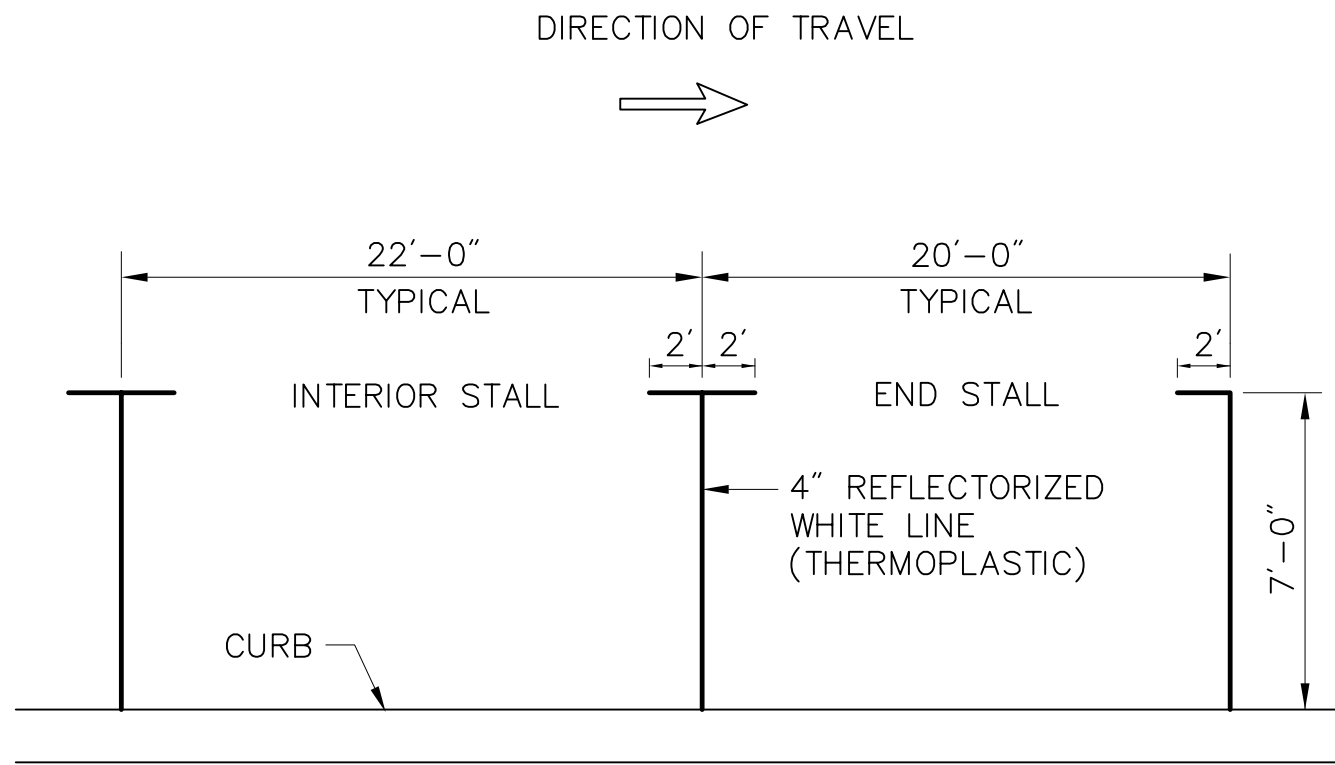
BASE DECORATIVE LIGHT POLE
PRECAST CONCRETE – ROUND

SCALE: NOT TO SCALE
DATE: FEB 2007
DWG:

SPRINGFIELD
NORTH END/BRIGHTWOOD – NORTH SEGMENT

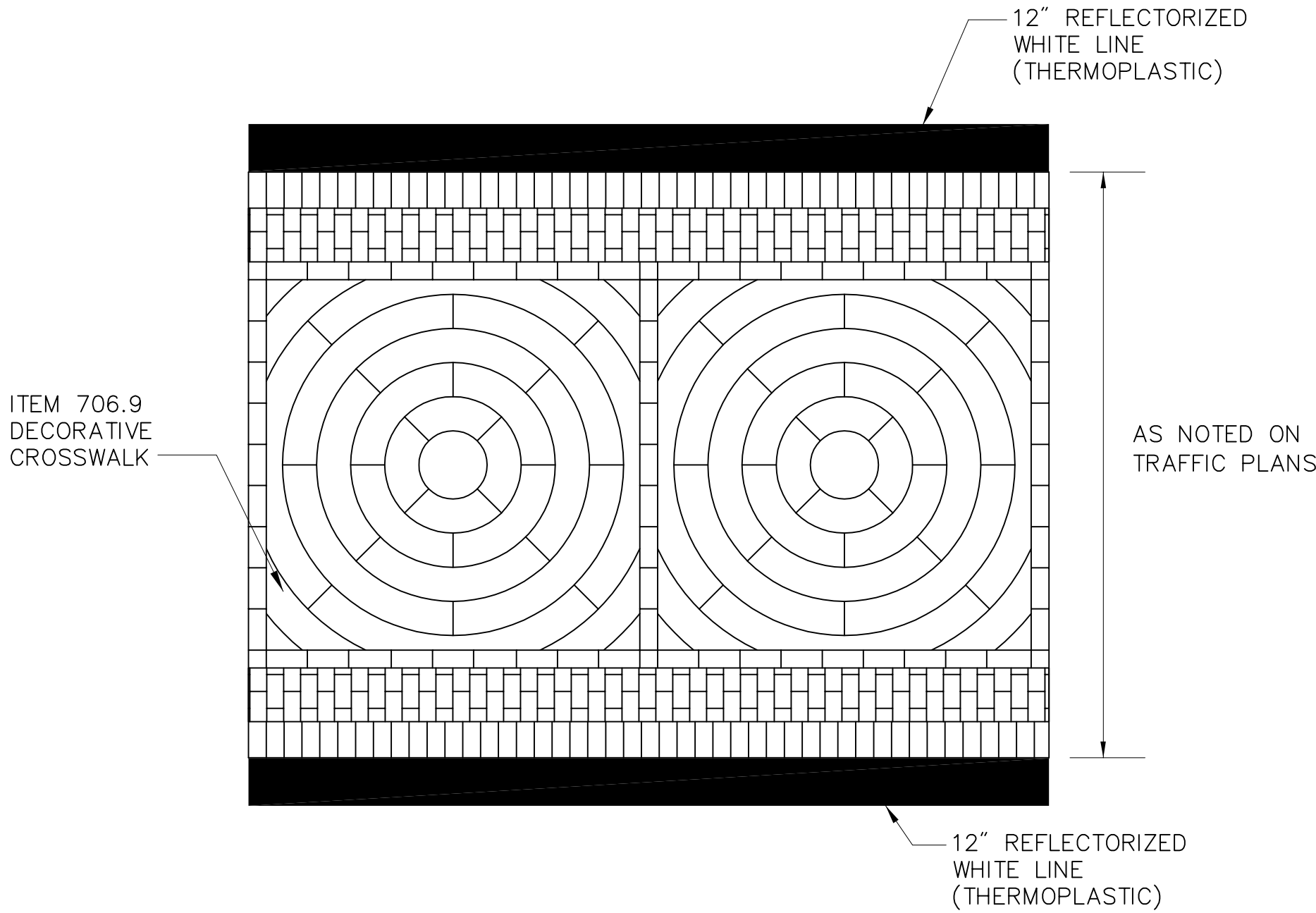
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	98	145
PROJECT FILE NO. 605222			

CONSTRUCTION DETAILS



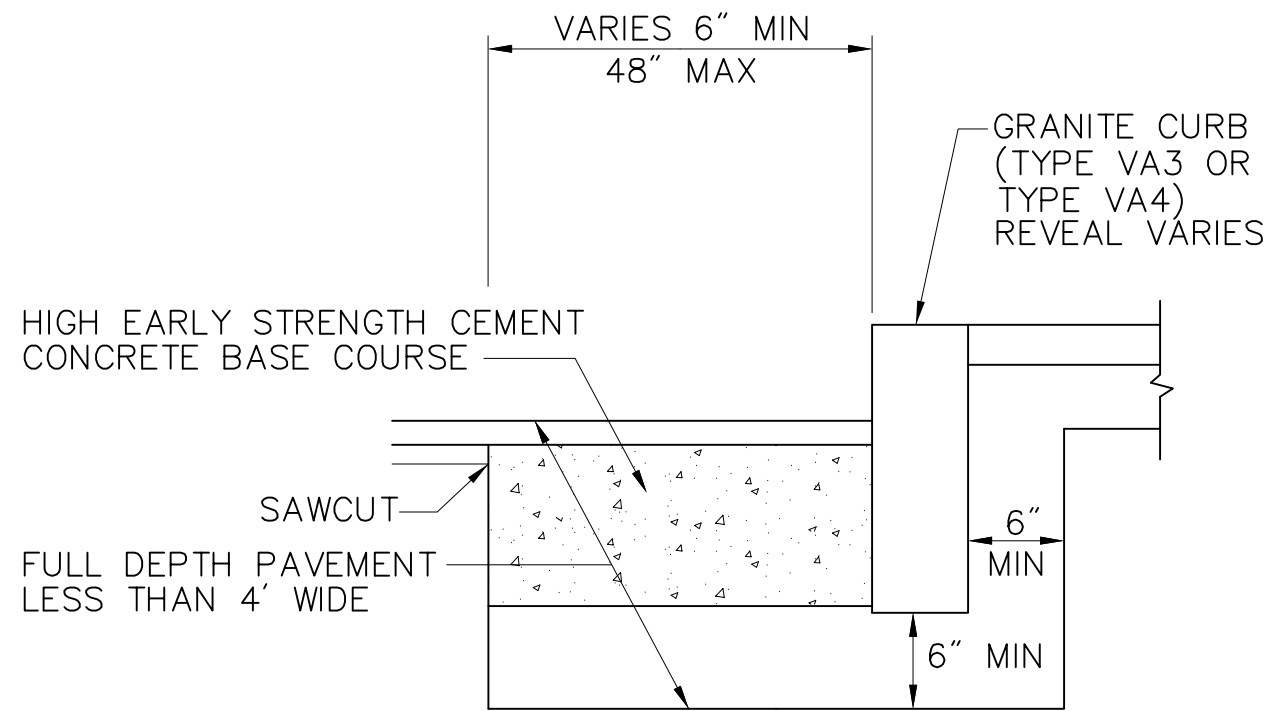
PARKING STALL MARKINGS

SCALE: NOT TO SCALE
DATE:
DWG:



DECORATIVE STAMPED PAVEMENT CROSSWALK

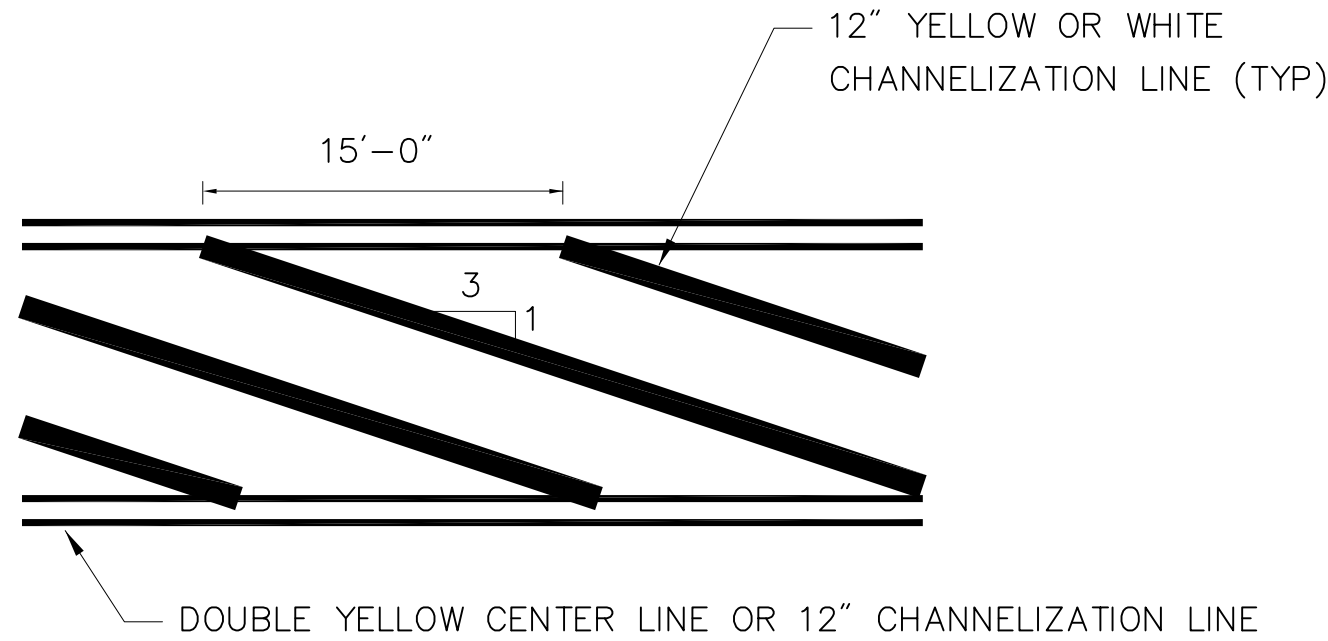
SCALE: NOT TO SCALE
DATE:
DWG:



- NOTES:
- 6" CEMENT CONCRETE SHALL BE INCLUDED IN THE PRICE BID FOR GRANITE CURB.

GRANITE CURB IN FULL DEPTH PAVEMENT LESS THAN 4' WIDE

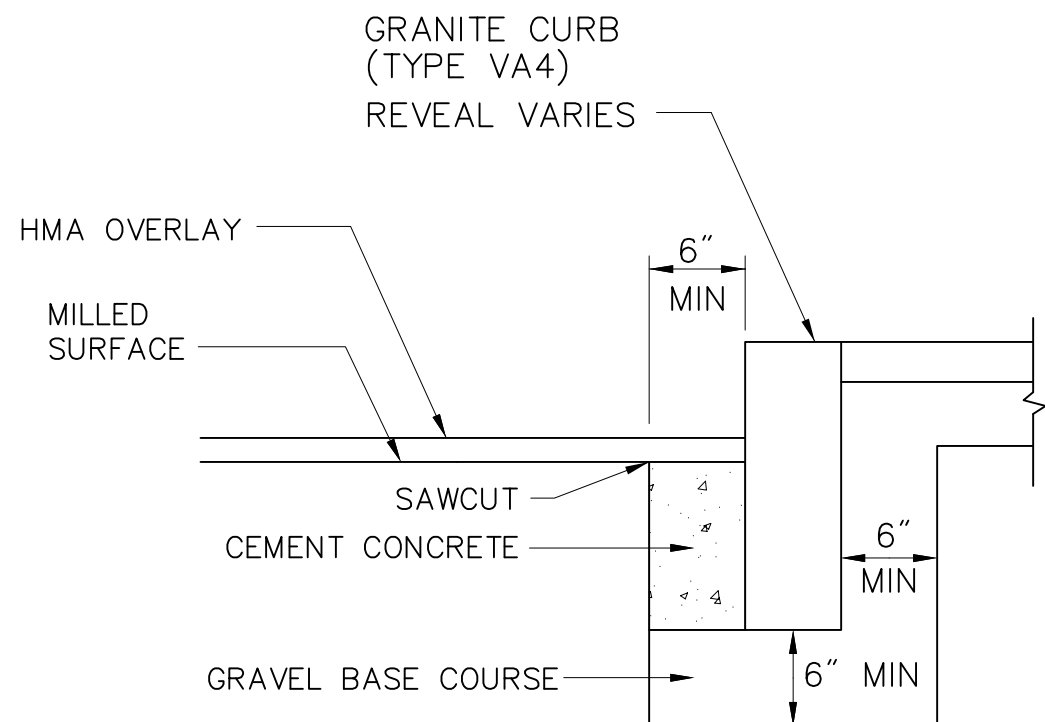
SCALE: NOT TO SCALE
DATE: APRIL 2003
DWG: CURB-06



- NOTES:
- ALL 12" THERMOPLASTIC LINES SHALL BE APPLIED IN ONE APPLICATION, NO COMBINATION OF LINES (TWO – 6" LINES) WILL BE ACCEPTED.
 - LAYOUT OF GORE LINES SHALL BE APPROVED BY A MASSDOT ENGINEER PRIOR TO APPLICATION OF THERMOPLASTIC.
 - ALL GORE LINES INSTALLED SHALL CONFORM TO THE RELEVANT PROVISIONS OF THE MASSACHUSETTS DOT – HIGHWAY DIVISION "STANDARD SPECIFICATION FOR HIGHWAY AND BRIDGES" DATED 1988, SECTION 860 FOR REFLECTORIZED LINE (THERMO-PLASTIC) & MATERIAL M7.01.20, LATEST REVISIONS.

GORE AREA PAVEMENT MARKINGS

SCALE: NOT TO SCALE
DATE: DECEMBER 2008
DWG: PM-09



- NOTES:
- CONCRETE SHALL BE INCLUDED IN PRICE BID FOR GRANITE CURB OR GRANITE CURB REMOVED AND RESET.
 - SAWCUT 6" FROM CURB LINE AND REMOVE EXISTING PAVEMENT AND GRAVEL. REPLACE WITH CEMENT CONCRETE.
 - ANY DESIGNATED CEMENT CONCRETE THAT IS ACCEPTABLE UNDER SECTION M4 OF THE STANDARD SPECIFICATIONS MAY BE USED. ALL TEST REQUIREMENTS ARE WAIVED. HOT MIX ASPHALT SHALL NOT BE USED AS A SUBSTITUTE.

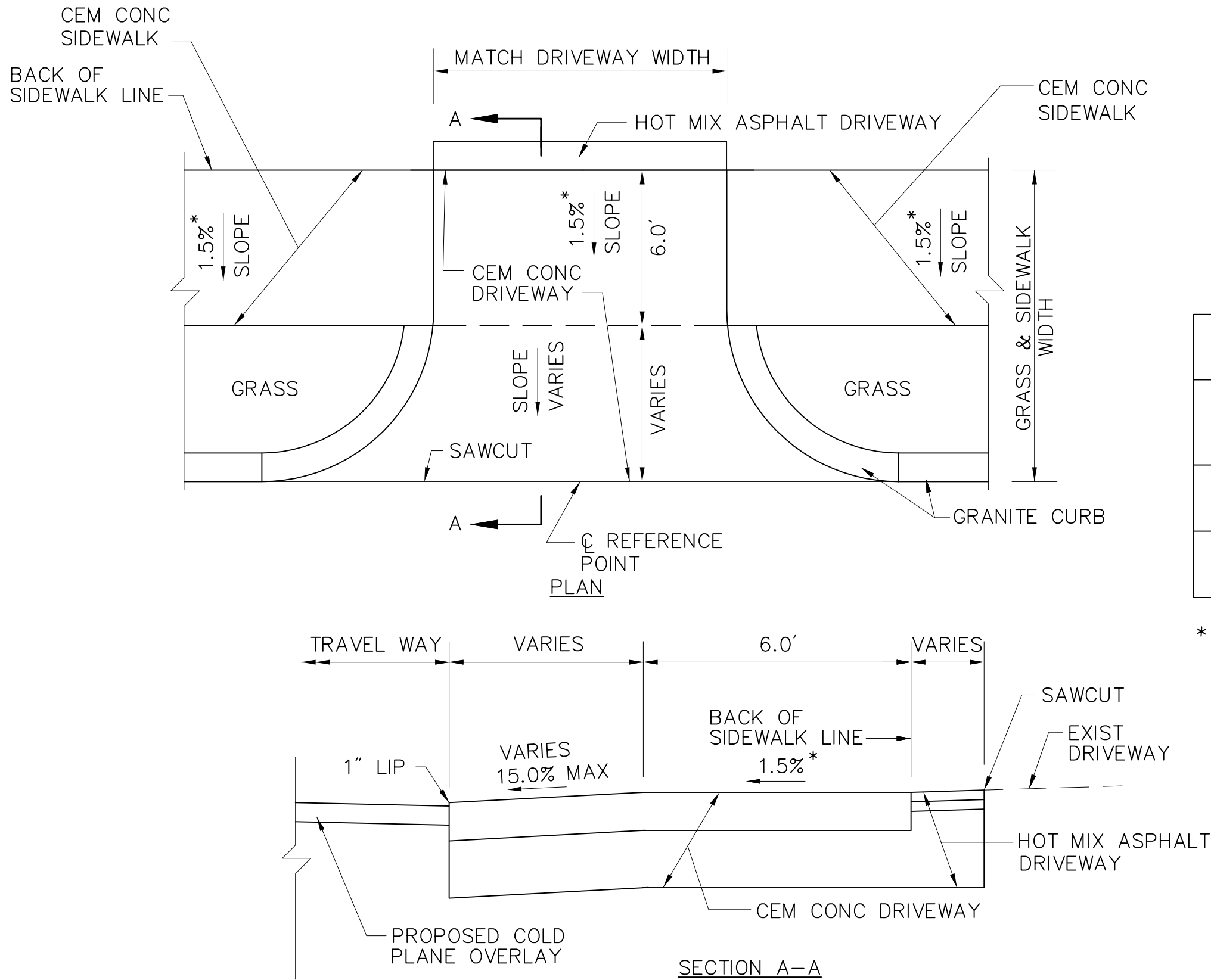
GRANITE CURB IN MICROMILL AND PAVEMENT OVERLAY

SCALE: NOT TO SCALE
DATE: APRIL 2003
DWG: CURB-04

SPRINGFIELD
NORTH END/BRIGHTWOOD – NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	99	145
PROJECT FILE NO. 605222			

CONSTRUCTION DETAILS

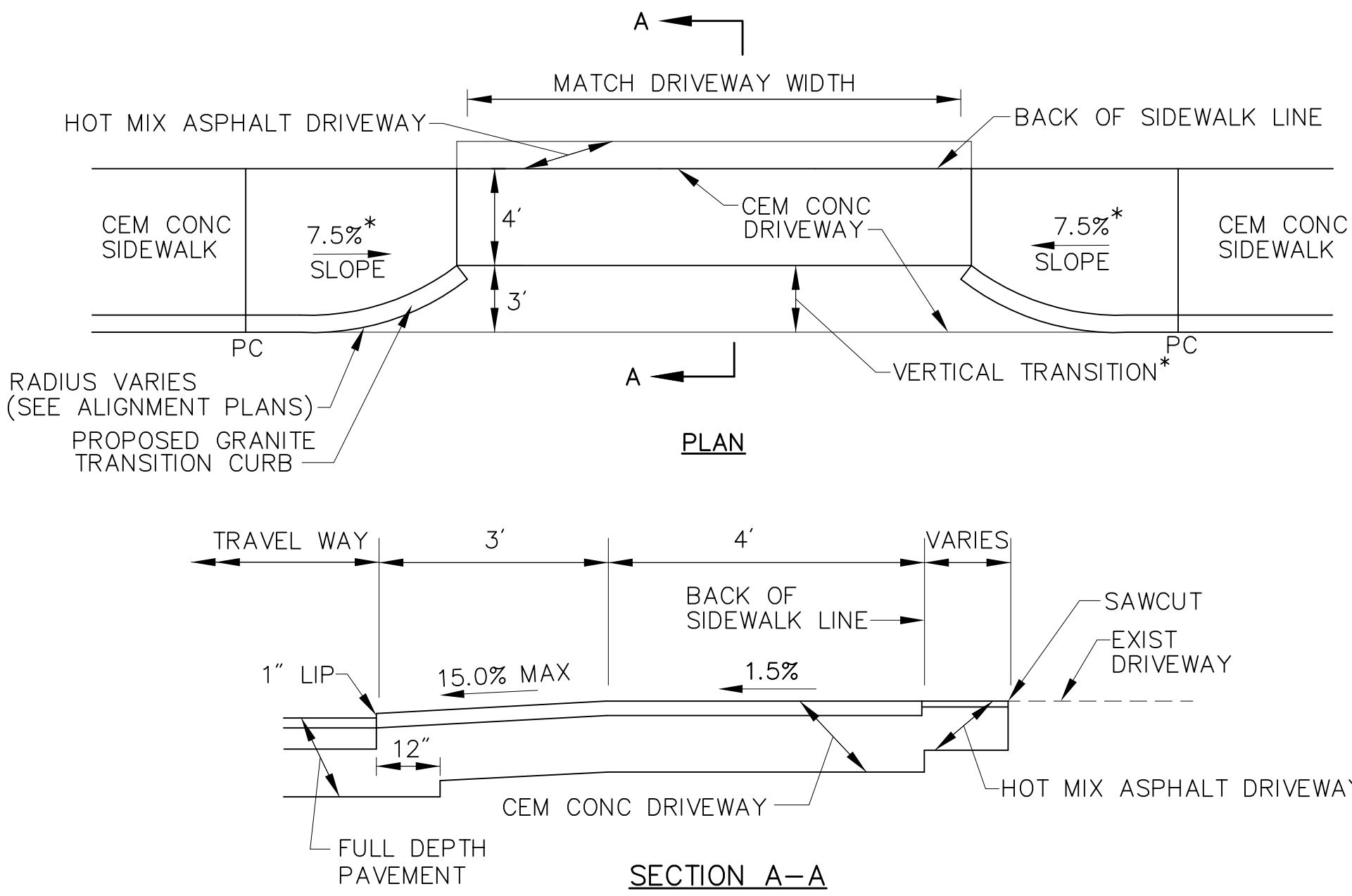


TRANSITION CURB FOR DRIVEWAYS WITH SIDEWALK				
BASELINE/ STATION	ROADWAY GUTTER	GRASS & SIDEWALK WIDTH	LEFT SIDE TRANSITION	RIGHT SIDE TRANSITION
92+25 RT	0.40%	8.57'	—	—
93+85 RT	0.40%	9.74'	—	—

* TOLERANCE FOR CONSTRUCTION ±0.5%

TYPICAL DRIVEWAY WITH SIDEWALK,
GRASS STRIP AND GRANITE CURB

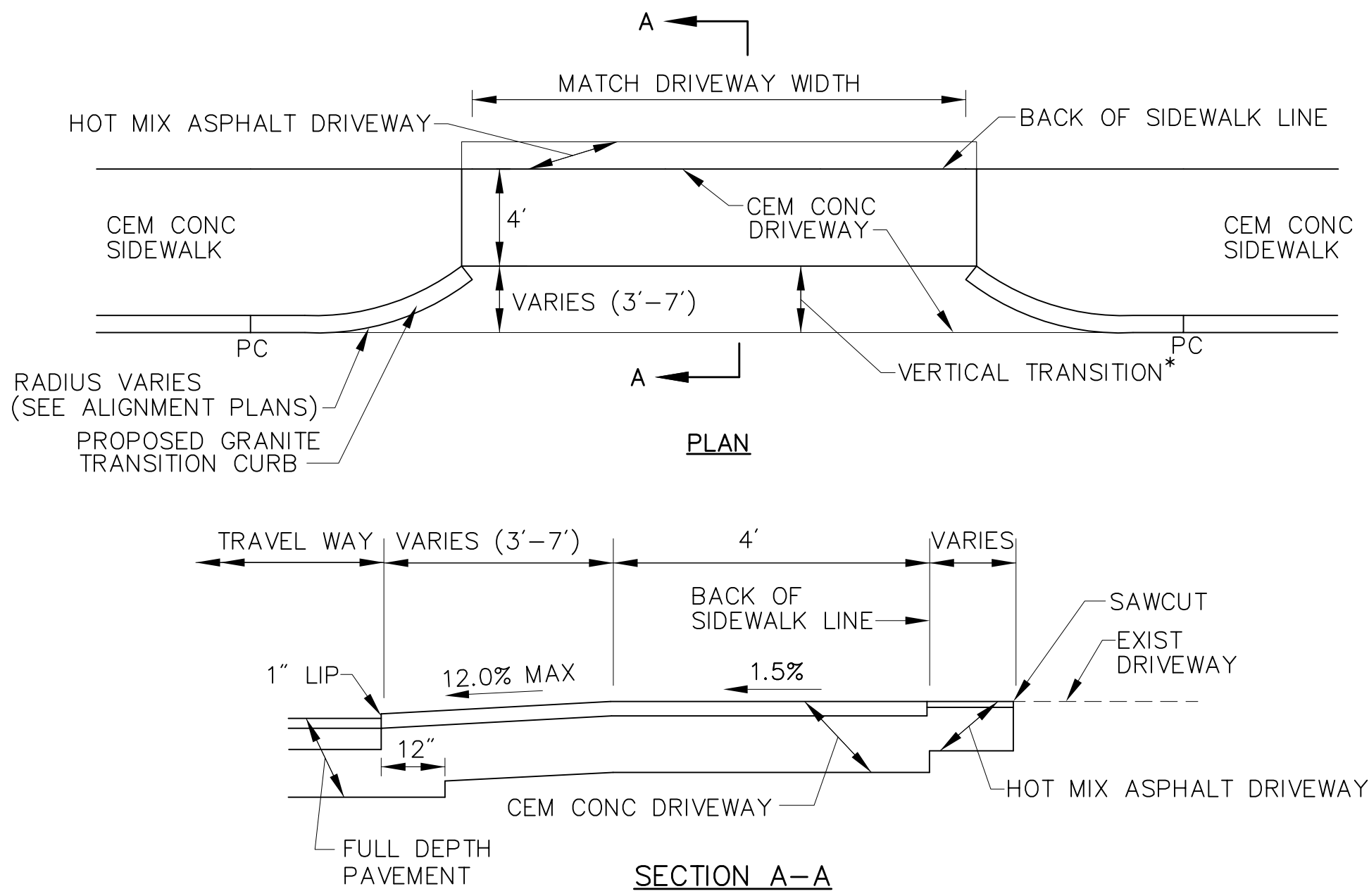
SCALE: NOT TO SCALE
DATE: APRIL 2003
DWG: DRIVE-06



TRANSITION CURB FOR DRIVEWAYS WITH SIDEWALK				
BASELINE/ STATION	ROADWAY GUTTER	SIDEWALK WIDTH	LEFT SIDE TRANSITION	RIGHT SIDE TRANSITION
616+40 RT	-0.40%	10.0'	6.5'	6.5'
620+20 LT	0.54%	7.0'	6.5'	6.5'
626+50 LT	0.60%	9.5'	0'	6.5'

* TOLERANCE FOR CONSTRUCTION ±0.5%

NOTE: DRIVEWAY AND SIDEWALK SLOPED TO
MEET AT 1/2 OF THE CURB REVEAL



* TOLERANCE FOR CONSTRUCTION ±0.5%

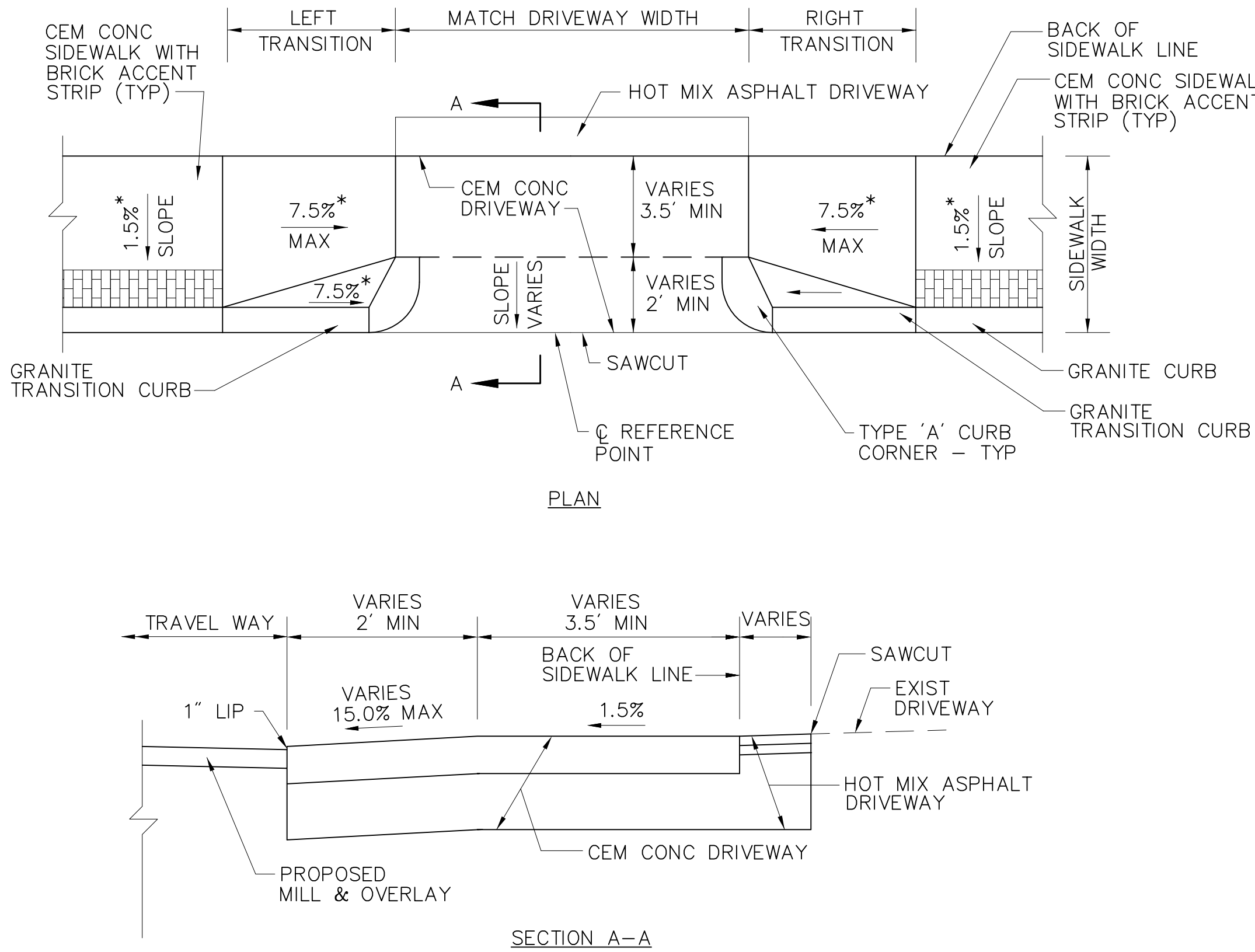
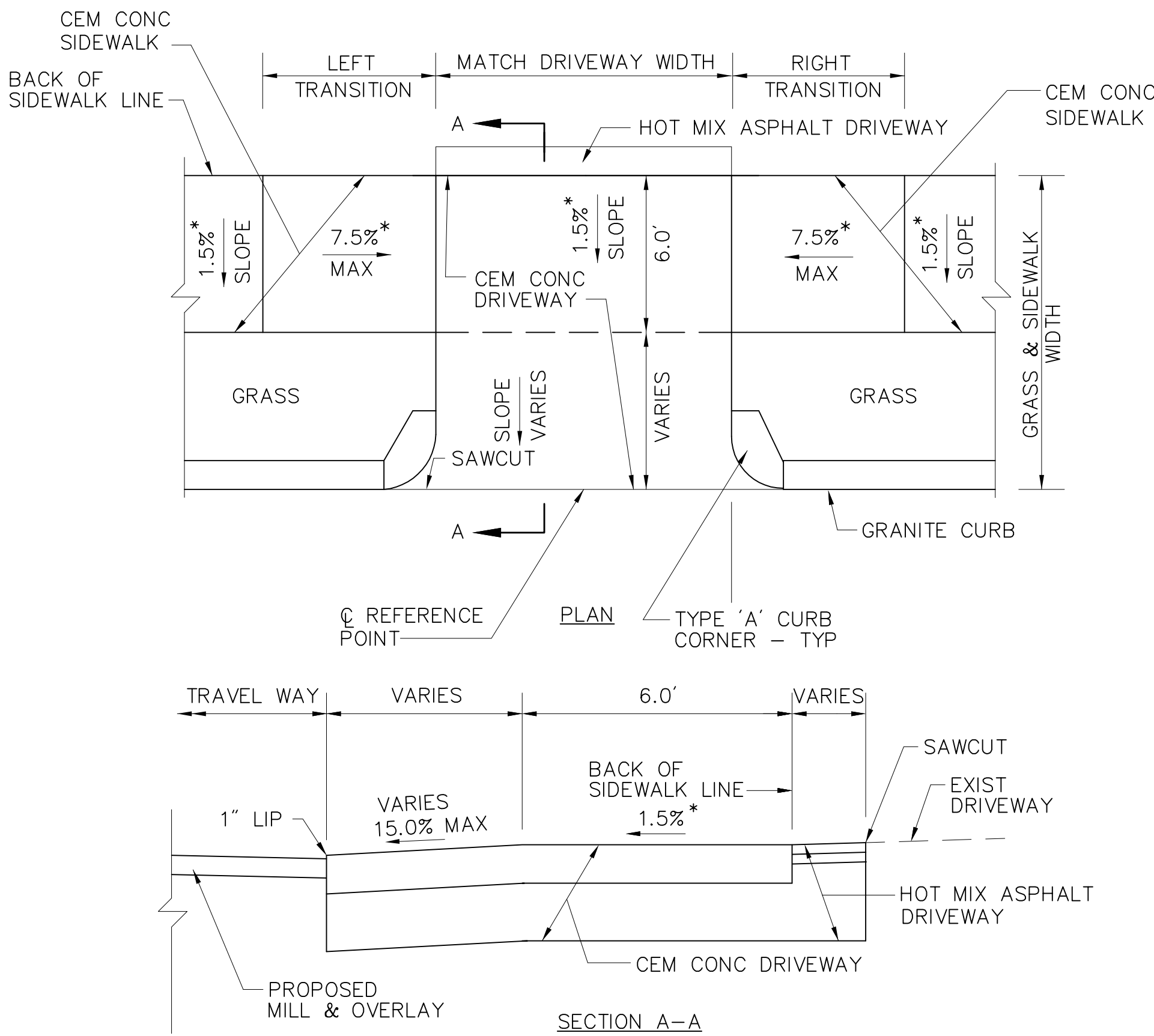
TRANSITION CURB FOR DRIVEWAYS WITH SIDEWALK				
BASELINE/ STATION	ROADWAY GUTTER	SIDEWALK WIDTH	LEFT SIDE TRANSITION	RIGHT SIDE TRANSITION
106+75 RT	HP AT DRIVE	7.0'	0'	0'
107+32 LT	0.70%	11.0'	0'	0'

NOTE: ONLY DRIVEWAY IS SLOPED. SIDEWALK
GRADE SHALL BE RETAINED.

SPRINGFIELD
NORTH END/BRIGHTWOOD – NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	100	145
PROJECT FILE NO. 605222			

CONSTRUCTION DETAILS



TRANSITION CURB FOR DRIVEWAYS WITH SIDEWALK				
BASELINE/ STATION	ROADWAY GUTTER	GRASS & SIDEWALK WIDTH	LEFT SIDE TRANSITION	RIGHT SIDE TRANSITION
50+50 RT	0.42%	14.1'	—	—
51+13.43 RT	HP AT DRIVE	13.1'	—	—
59+03.49 RT	0.52%	9.95'	—	—
74+77.59 LT	0.96%	18.52'	—	—
75+00 RT	0.45%	16.44'	—	—
76+61.55 LT	0.40%	18.01'	—	—
80+74.08 RT	0.73%	9.75'	—	—
94+40.61 LT	HP AT DRIVE	9.90'	—	—
96+29.71 LT	0.40%	9.67'	—	—
99+82.80 LT	HP AT DRIVE	10.27'	—	—
101+82.23 LT	HP AT DRIVE	10.27'	—	—
400+95.02 RT	0.40%	10.00'	—	—
401+01.29 LT	0.40%	12.88'	—	—
401+74.26 LT	HP AT DRIVE	12.88'	—	—

TRANSITION CURB FOR DRIVEWAYS WITH SIDEWALK				
BASELINE/ STATION	ROADWAY GUTTER	GRASS & SIDEWALK WIDTH	LEFT SIDE TRANSITION	RIGHT SIDE TRANSITION
401+81.33 RT	HP AT DRIVE	12.88'	—	—
402+59.06 LT	0.40%	12.88'	—	—
500+72 LT	0.56%	11.92'	—	—
501+28.81 LT	0.90%	10.97'	—	—
501+62.13 LT	0.78%	10.95'	—	—
502+00.87 RT	0.78%	10.98'	—	—
502+11.63 LT	0.86%	10.93'	—	—
502+67.69 RT	0.86%	11.05'	—	—
502+74.03 LT	0.86%	10.94'	—	—
503+16.58 LT	0.84%	10.90'	—	—
503+18.78 RT	0.84%	11.07'	—	—

TRANSITION CURB FOR DRIVEWAYS WITH SIDEWALK						
BASELINE/ STATION	ROADWAY GUTTER	SIDEWALK WIDTH	LEFT SIDE REVEAL	TRANSITION	RIGHT SIDE TRANSITION	REVEAL
51+42.86 LT	0.40%	9.75'±	6"	7'8"	6'6"	6"
52+56.70 LT	0.68%	6.91'	6"	7'8"	6'6"	6"
53+04.91 LT	0.40%	6.61'	6"	6'6"	7'8"	6"
54+27.52 LT	HP AT DRIVE	6.24'	8"	8'8"	6'6"	6"
54+87.33 LT	HP AT DRIVE	6.06'	6"	6'6"	8'8"	8"
55+08.87 RT	0.40%	5.98'	6"	6'6"	5'4"	4.2"
55+57.60 RT	0.40%	6.07'	8"	8'8"	7'8"	6"
61+17.14 LT	0.80%	9.73'	8"	10'3"	6'6"	6"
63+98.23 RT	0.40%	10.02'	8"	10'3"	7'10"	7.2"

TRANSITION CURB FOR DRIVEWAYS WITH SIDEWALK						
BASELINE/ STATION	ROADWAY GUTTER	SIDEWALK WIDTH	LEFT SIDE REVEAL	TRANSITION	RIGHT SIDE TRANSITION	REVEAL
65+89.92 LT	0.80%	10.30'	8"	10'3"	7'3"	6.7"
68+50.71 LT	HP AT DRIVE	10.04'	8"	10'3"	6'6"	6"
69+87.23 RT	HP AT DRIVE	10.04'	6.8"	7'4"	5'0"	4.6"
70+77.50 LT	0.68%	8.97'	6"	7'8"	8'8"	8"
77+24.68 RT	HP AT DRIVE	9.69'	7"	7'7"	8'8"	8"

* TOLERANCE FOR CONSTRUCTION ±0.5%

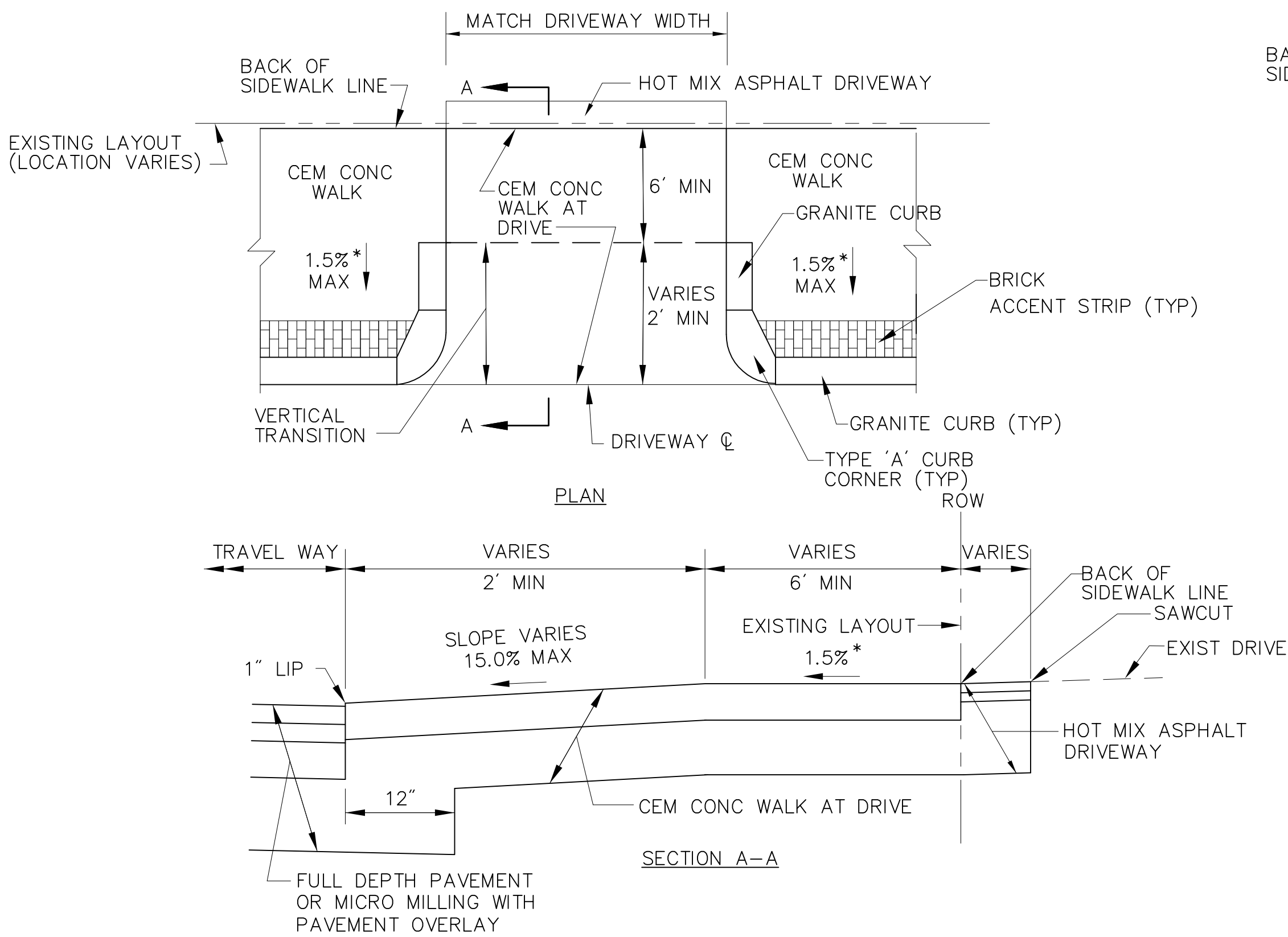
* TOLERANCE FOR CONSTRUCTION ±0.5%

TYPICAL DRIVEWAY WITH SIDEWALK, GRASS STRIP AND GRANITE CURB CORNER	
SCALE: NOT TO SCALE	
DATE: APRIL 2003	
DWG: DRIVE-06	

TYPICAL DRIVEWAY WITH SIDEWALK AND GRANITE CURB CORNER	
SCALE: NOT TO SCALE	
DATE: APRIL 2003	
DWG: DRIVE-07	

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	101	145
PROJECT FILE NO. 605222			

CONSTRUCTION DETAILS



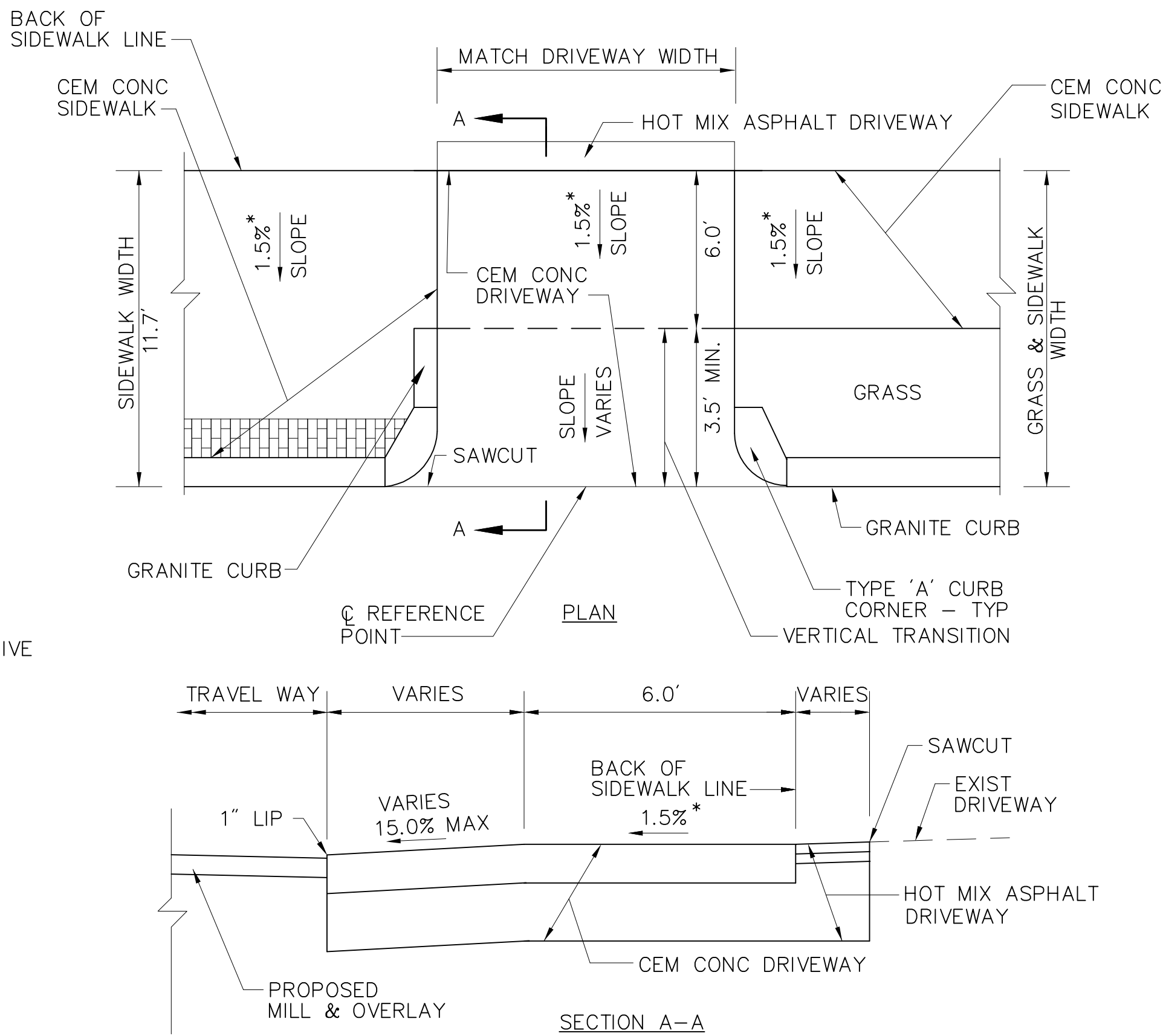
TRANSITION CURB FOR DRIVEWAYS WITH SIDEWALK

BASELINE/ STATION	ROADWAY GUTTER	SIDEWALK WIDTH	LEFT SIDE REVEAL	TRANSITION	RIGHT SIDE TRANSITION	REVEAL
52+26.72 RT	0.40%	10.13'	6"	—	—	4.4"
57+14.58 LT	0.60%	10.21'	6"	—	—	6"
65+22.10 RT	0.40%	11.96'	7.8"	—	—	7.2"
69+87.23 RT	HP AT DRIVE	10.04'	6.8"	—	—	4.6"
71+25 LT	0.58%	10.3'	6"	—	—	6"
73+90.56 LT	0.50%	10.51'	6"	—	—	6"

* TOLERANCE FOR CONSTRUCTION ±0.5%

TYPICAL DRIVEWAY WITH CEMENT
CONC SIDEWALK AND CURB CORNERS

SCALE: NOT TO SCALE
DATE: APRIL 2003
DWG: DRIVE-07



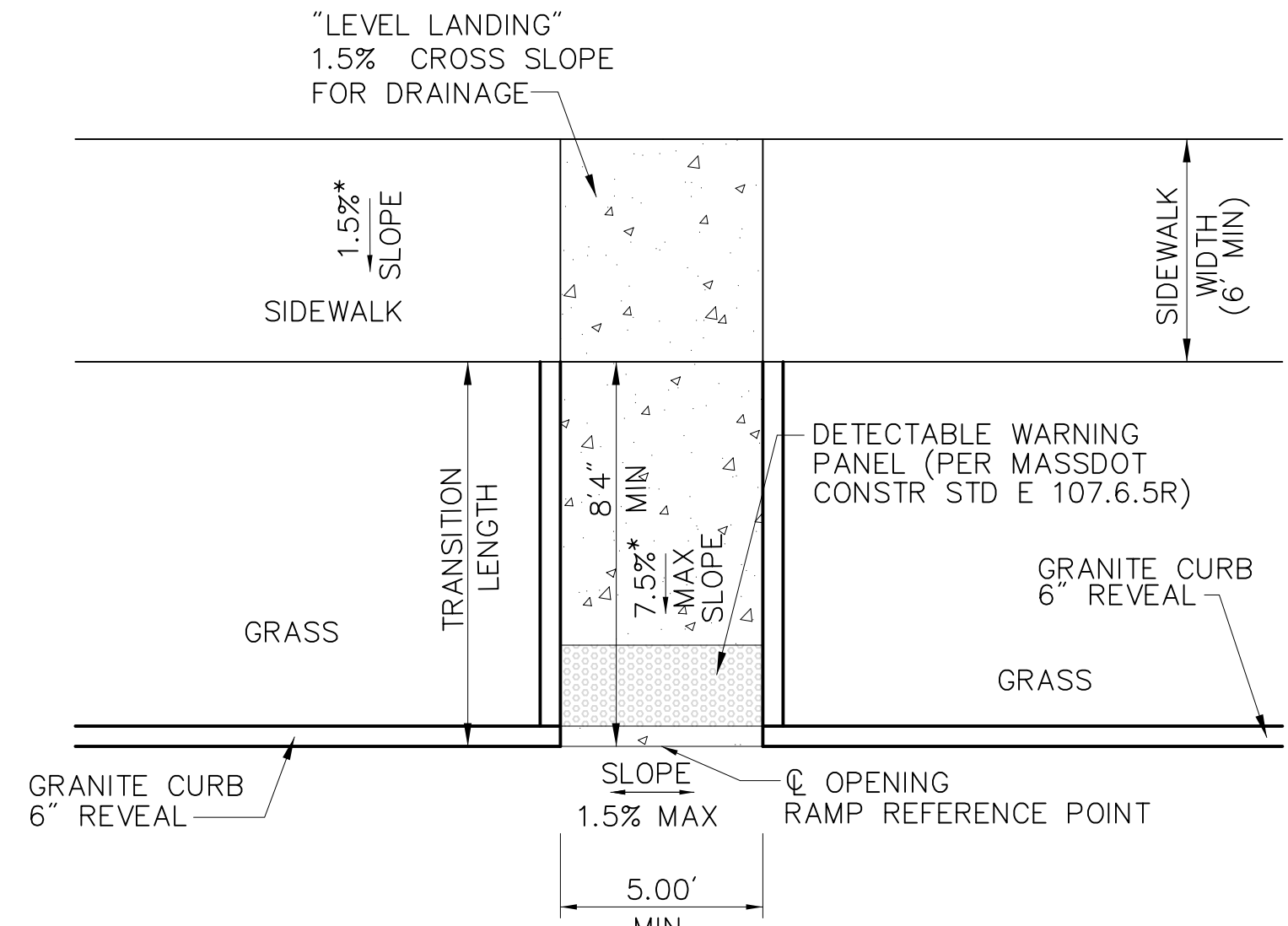
TRANSITION CURB FOR DRIVEWAYS WITH SIDEWALK

BASELINE/ STATION	ROADWAY GUTTER	GRASS & SIDEWALK WIDTH	LEFT SIDE REVEAL	TRANSITION	RIGHT SIDE TRANSITION	REVEAL
52+26.72 RT	0.46%	10.1'	6"	—	—	5"
52+85 RT	0.72%	10.1'	6"	—	—	6"
60+63.31 RT	0.40%	10.1'	8"	—	—	6"
79+80 RT	0.40%	9.6'	6"	—	—	6"
103+25 LT	0.41%	10.5'	6"	—	—	6"

* TOLERANCE FOR CONSTRUCTION ±0.5%

DRIVEWAY AT STATION 36+21.82 RT
WITH GRANITE CURB CORNER

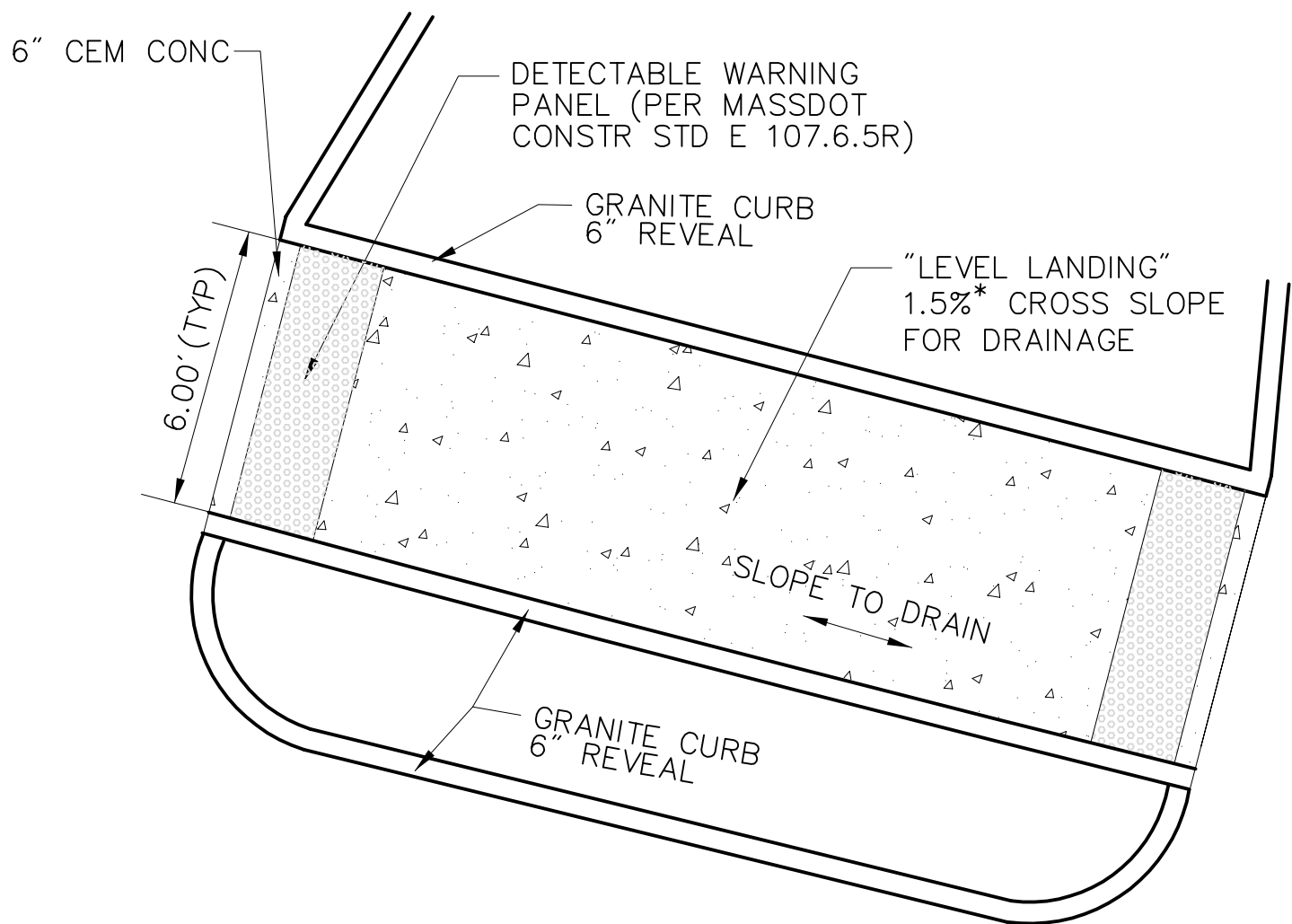
SCALE: NOT TO SCALE
DATE: APRIL 2003
DWG: DRIVE-06



WHEELCHAIR RAMP
WITH GRASS ADJACENT ON BOTH SIDES

WHEELCHAIR RAMP DATA					
NO.	LOCATION	SIDEWALK WIDTH	ROADWAY GUTTER	TRANSITION	℄ OPENING ELEVATION
59	627+73.80 15.85' RT	5.00'	0.40%	7'-10"	58.00
62	75+48.33 15.0' RT	7.33'	0.48%	10'0"	63.19
63	75+48.33 15.0' LT	6.00'	0.44%	12'6"	63.11

* TOLERANCE FOR CONSTRUCTION ±0.5%

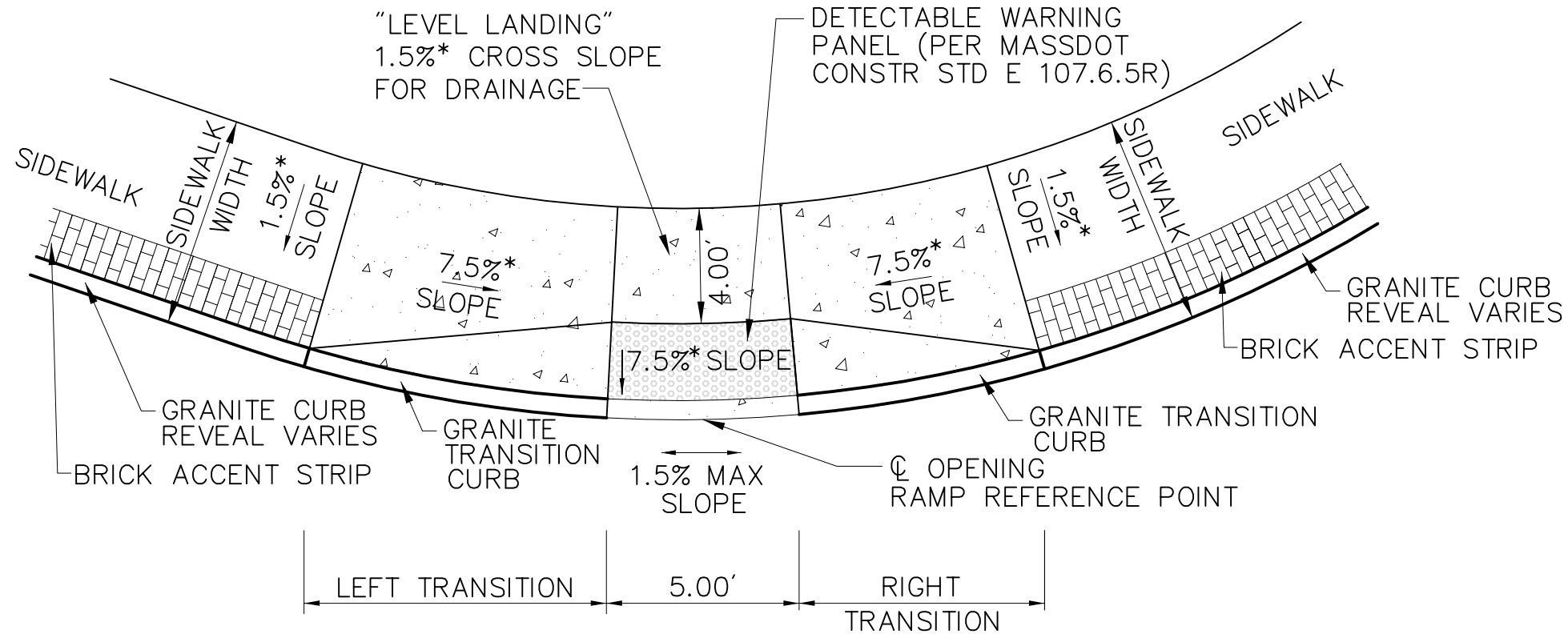


WALKWAY THRU ISLAND SHOULD BE PAID FOR UNDER
ITEM 701.2 CEMENT CONCRETE WHEELCHAIR RAMP

WALKWAY THRU ISLAND

DETECTABLE WARNING PANELS

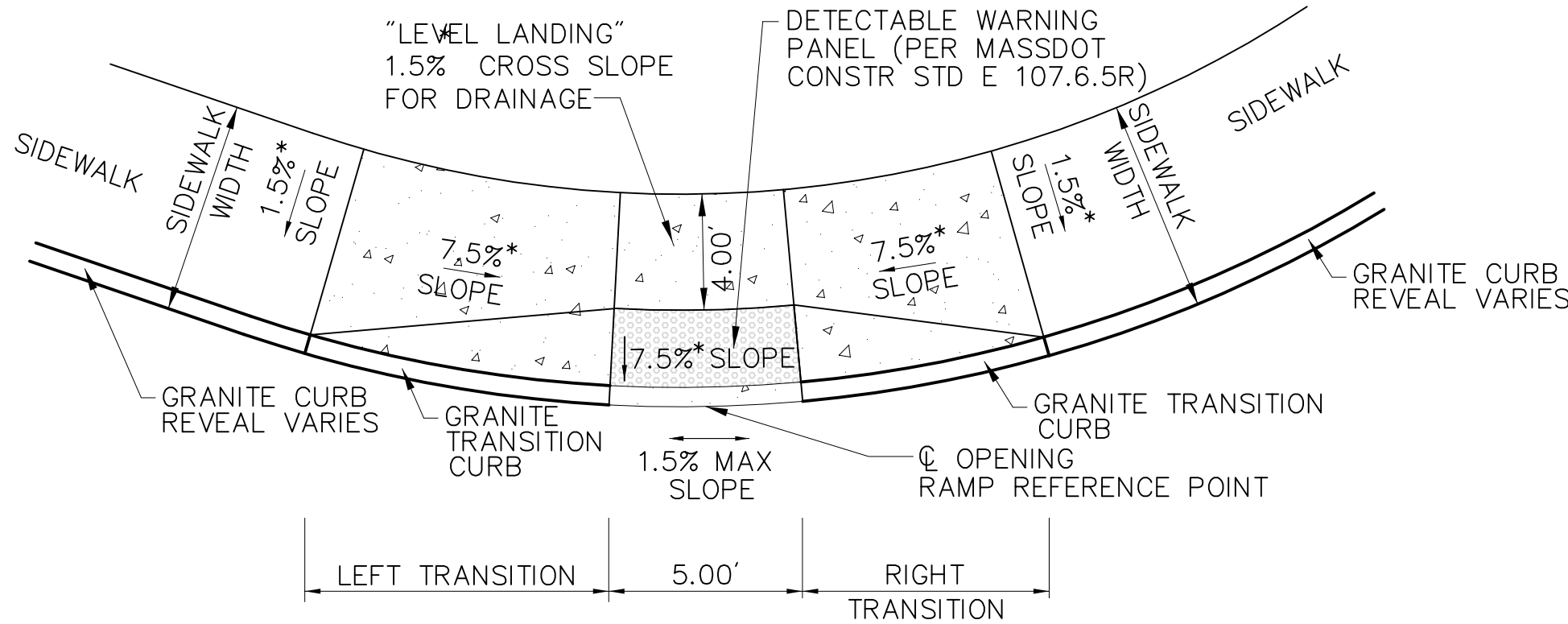
- DETECTABLE WARNING PANELS ARE REQUIRED TO BE CONSTRUCTED ON ALL PROPOSED WHEELCHAIR RAMPS AND ARE TO BE INSTALLED IN ACCORDANCE WITH MASSDOT CONSTRUCTION STANDARD E 107.6.5R.
- PANELS MAY BE CONCRETE PRECAST OR CAST IN PLACE OR OTHER SUITABLE MATERIAL PERMANENTLY APPLIED TO THE RAMP. THERE MUST BE A MINIMUM 70% CONTRAST IN LIGHT REFLECTANCE BETWEEN THE DETECTABLE WARNING AND AN ADJOINING SURFACE.
- NO SEPARATE PAYMENT SHALL BE MADE FOR DETECTABLE WARNING PANELS (INCLUDING THOSE PROPOSED AT THE MEDIAN ISLANDS), BUT ALL COSTS IN CONNECTION THERE WITH SHALL BE INCLUDED IN THE VARIOUS ITEMS BID.



WHEELCHAIR RAMP – CURVED SIDEWALK LESS THAN 12'-4"

WHEELCHAIR RAMP DATA								
NO.	LOCATION	SIDEWALK WIDTH	ROADWAY GUTTER	LEFT REVEAL	TRANSITION	RIGHT REVEAL	TRANSITION	℄ OPENING ELEVATION
33	81+80.60 36.39' RT	9.4'	0.37%	6"	7'8"	6"	6'6"	61.71

* TOLERANCE FOR CONSTRUCTION ±0.5%



WHEELCHAIR RAMP – CURVED SIDEWALK LESS THAN 12'-4"
NO BRICK ACCENT STRIP

WHEELCHAIR RAMP DATA								
NO.	LOCATION	SIDEWALK WIDTH	ROADWAY GUTTER	LEFT REVEAL	TRANSITION	RIGHT REVEAL	TRANSITION	℄ OPENING ELEVATION
41	WASON AVE/ MAIN ST	WILL BE DESIGNED AFTER INTERSECTION APPROVAL						
50	603+53.24 14.54' RT	10.0'	1.64%	6"	6'6"	6"	9'0"	63.42
74	WALTER ST/ MAIN ST	WILL BE DESIGNED AFTER INTERSECTION APPROVAL						
76	WALTER ST/ MAIN ST	WILL BE DESIGNED AFTER INTERSECTION APPROVAL						
77	WALTER ST/ MAIN ST	WILL BE DESIGNED AFTER INTERSECTION APPROVAL						
78	WALTER ST/ MAIN ST	WILL BE DESIGNED AFTER INTERSECTION APPROVAL						
79	WALTER ST/ MAIN ST	WILL BE DESIGNED AFTER INTERSECTION APPROVAL						
81	WALTER ST/ MAIN ST	WILL BE DESIGNED AFTER INTERSECTION APPROVAL						

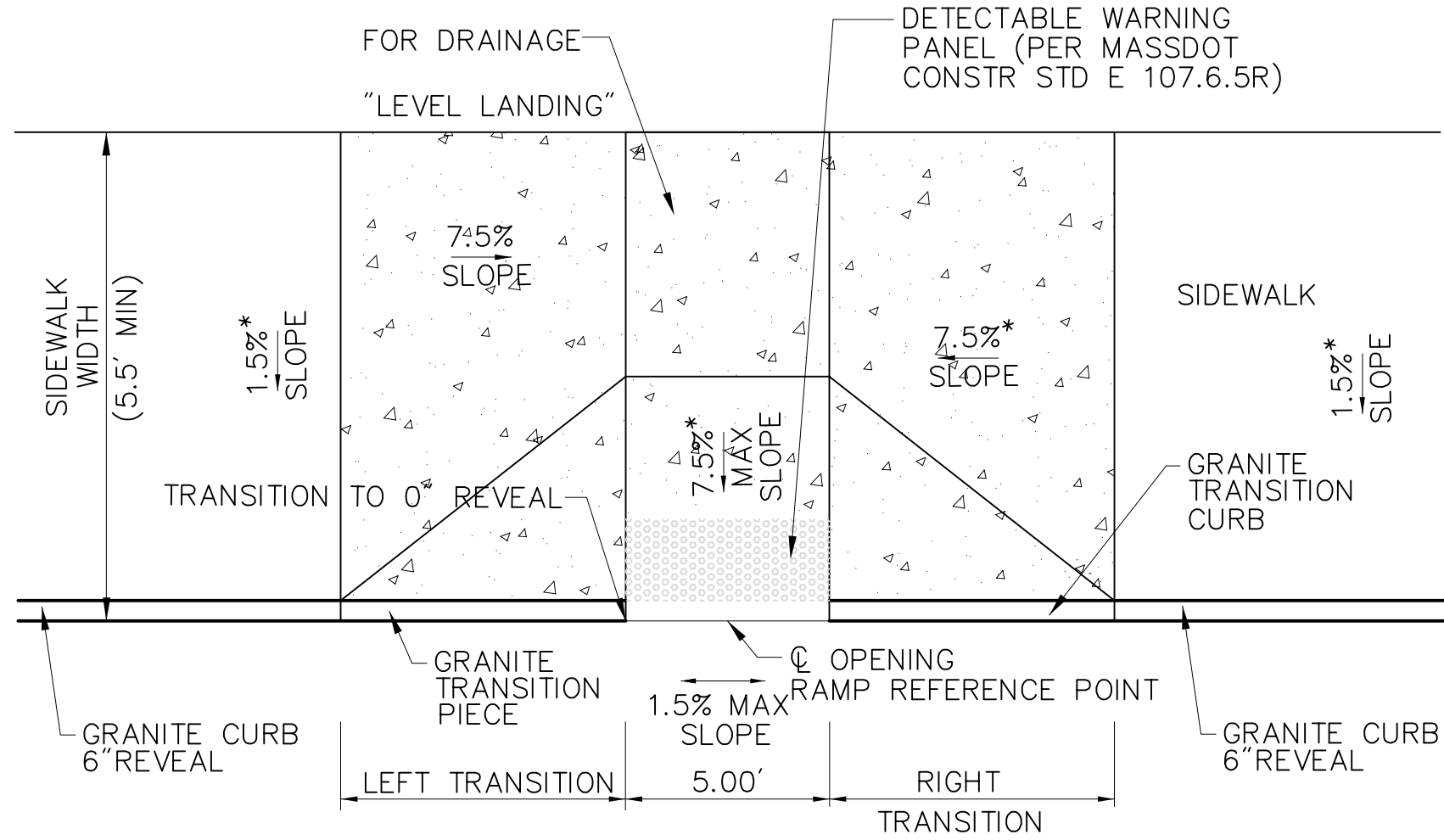
* TOLERANCE FOR CONSTRUCTION ±0.5%

SPRINGFIELD
NORTH END/BRIGHTWOOD – NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	102	145

PROJECT FILE NO. 605222

CONSTRUCTION DETAILS

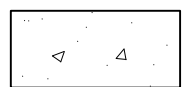


*TOLERANCE FOR CONSTRUCTION ±0.5%

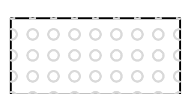
WHEELCHAIR RAMP –
IN SIDEWALK LESS THAN 12'4"

WHEELCHAIR RAMP DATA								
NO.	LOCATION	SIDEWALK WIDTH	ROADWAY GUTTER	LEFT REVEAL	TRANSITION	RIGHT REVEAL	TRANSITION	℄ OPENING ELEVATION
1	53+85.67 23.00' RT	7.5'	-1.00%	8"	6'6"	6"	7'8"	63.94
44	WASON AVE/ MAIN ST	WILL BE DESIGNED AFTER INTERSECTION APPROVAL						
53	619+81.01 14.64' LT	10.2'	0.52%	6"	7'8"	3"	3'3"	59.35
65	53+85.51 23.00' LT	6.5'	0.44%	8"	10'0"	8"	6'6"	63.86
66	62+36.77 23.00' LT	11.0'	-0.95%	8"	6'6"	8"	10'0"	64.38
67	62+36.23 23.00' RT	11.0'	-0.57%	8.5"	10'10"	8.5"	6'6"	64.25
68	68+12.14 23.00' LT	10.0'	0.63%	6"	7'8"	6"	6'6"	65.74
69	68+12.11 23.00' RT	10.0'	0.41%	4.5"	6'6"	4.5"	6'6"	65.95
73	79+55.81 23.00' RT	9.7'	0.40%	6"	6'6"	6"	7'8"	61.97
80	WALTER ST/ MAIN ST	WILL BE DESIGNED AFTER INTERSECTION APPROVAL						
82	102+72.57 23.00' LT	10.4'	0.40%	6"	7'8"	6"	6'6"	60.73
83	102+73.02 23.00' RT	7.0'	0.50%	6"	6'6"	6"	7'8"	60.96
84	107+01.80 23.00' LT	10.9'	WCR AT HIGHPOINT	6"	6'6"	6"	6'6"	60.78
85	107+10.40 22.67' RT	7.1'	WCR AT LOW POINT	6"	7'8"	6"	7'8"	60.98

LEGEND



LIMITS OF CEMENT CONCRETE
WHEELCHAIR RAMP



LIMITS OF DETECTABLE WARNING
PANEL (SEE SPECIFICATIONS FOR COLOR)

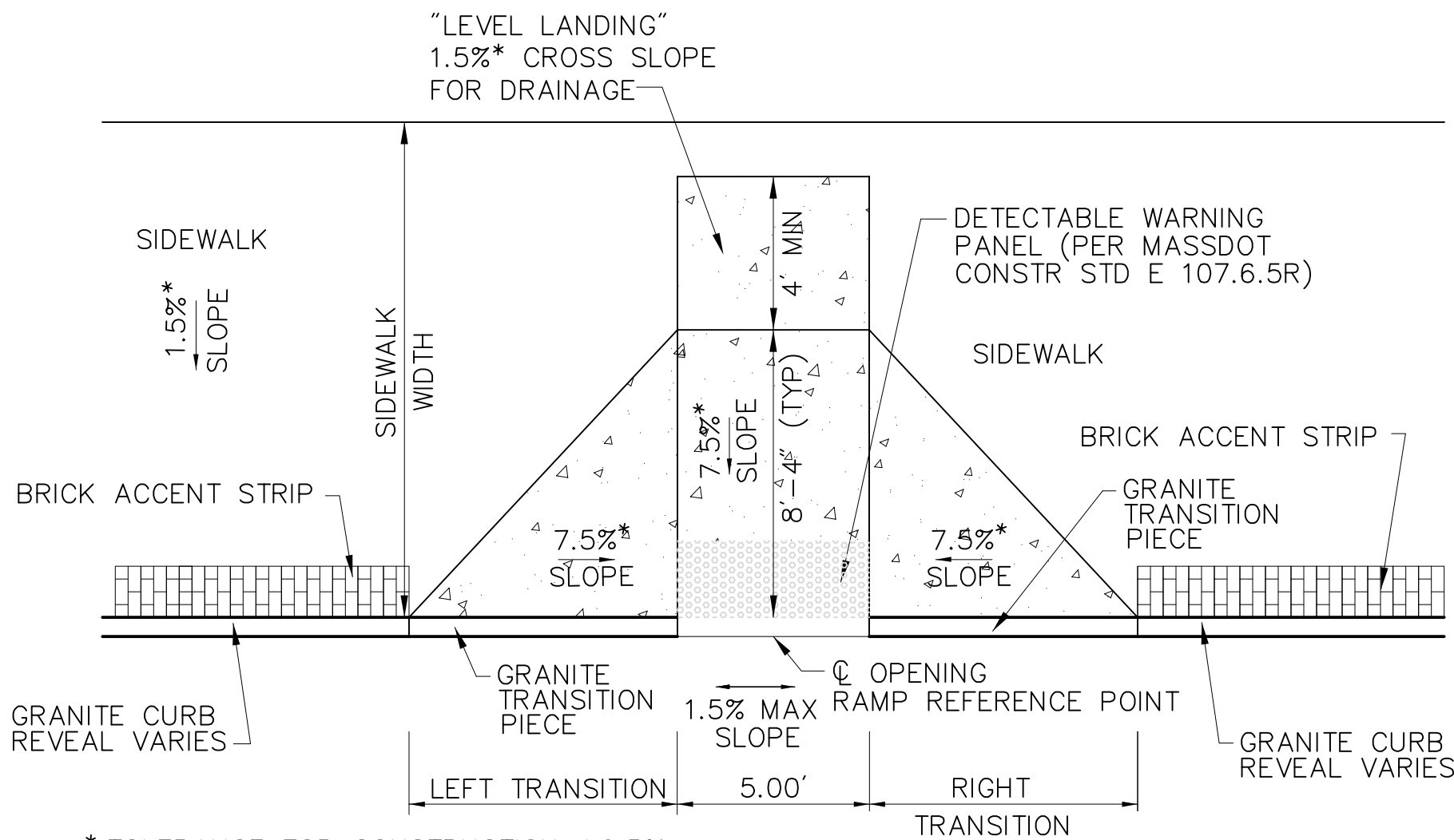
SEE ALIGNMENT PLANS FOR LOCATIONS

SPRINGFIELD
NORTH END/BRIGHTWOOD – NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	103	145

PROJECT FILE NO. 605222

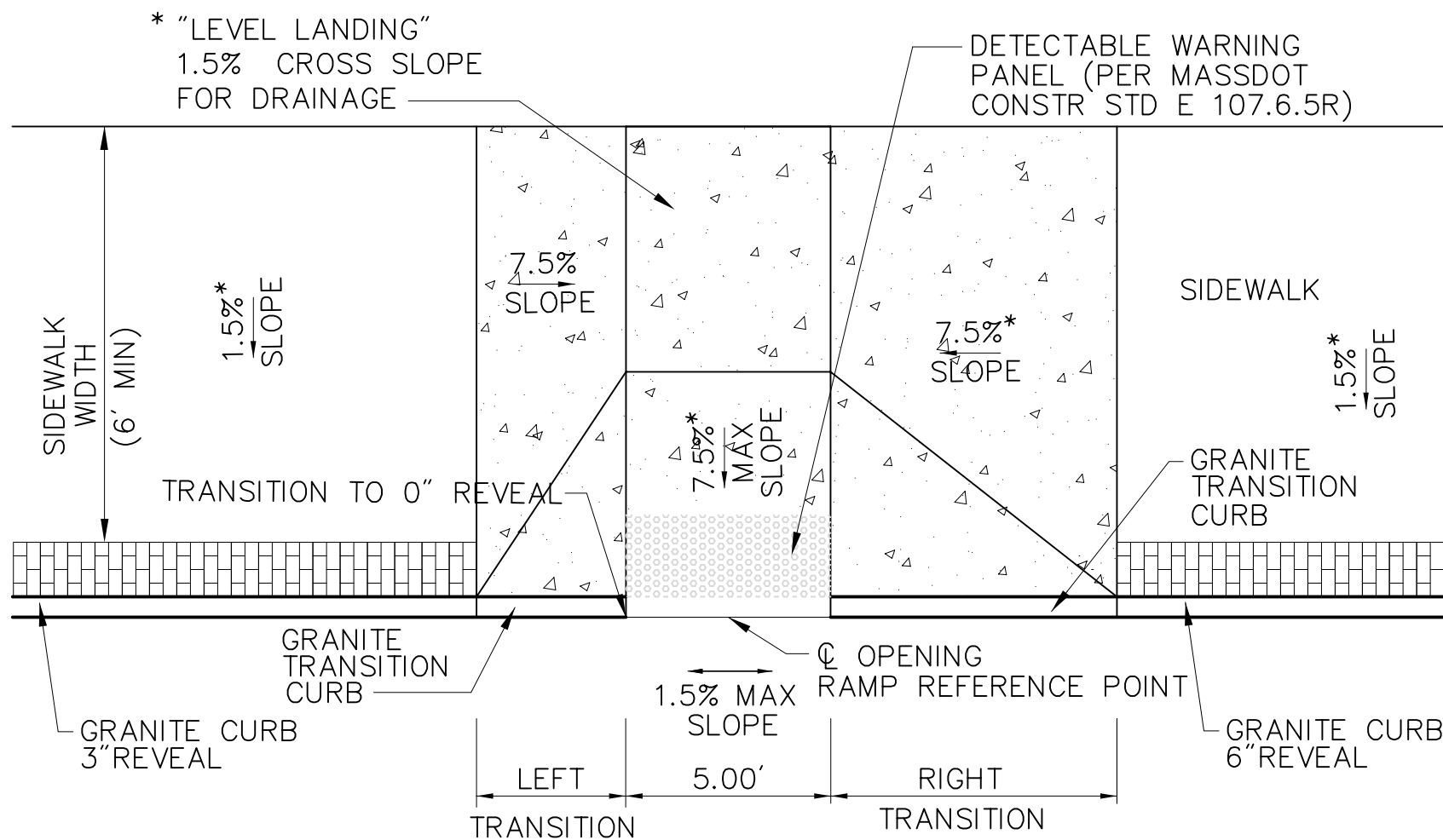
CONSTRUCTION DETAILS



* TOLERANCE FOR CONSTRUCTION ±0.5%

WHEELCHAIR RAMP –
SIDEWALK GREATER THAN 12’–4”
NTS

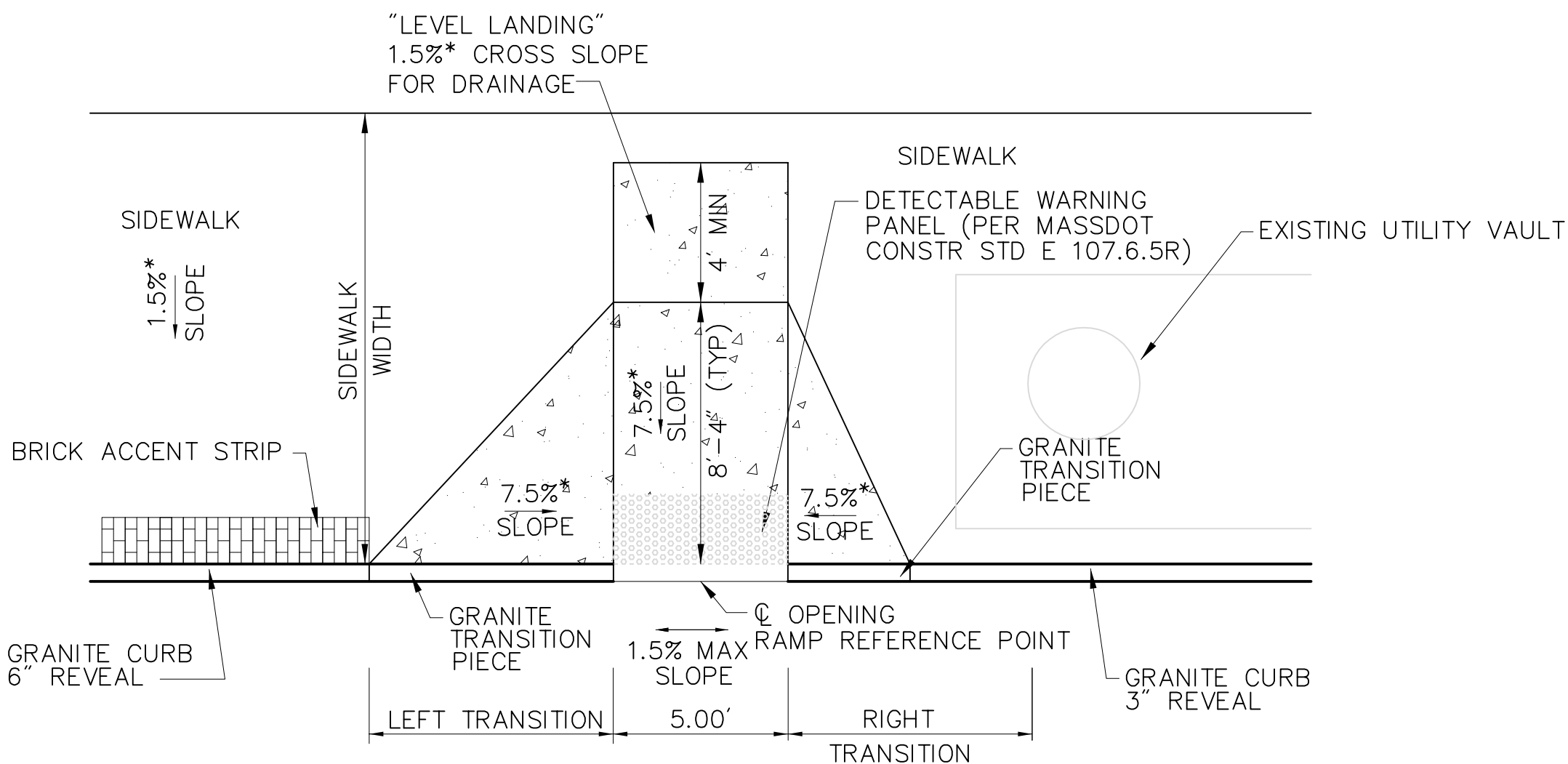
WHEELCHAIR RAMP DATA								
NO.	LOCATION	SIDEWALK WIDTH	ROADWAY GUTTER	LEFT REVEAL	TRANSITION	RIGHT REVEAL	TRANSITION	OPENING ELEVATION
4	56+05.79 31.44' LT	13.0'	WCR AT HIGHPOINT	6"	6'6"	6"	6'6"	63.47
7	57+64.88 15.00' LT	20.1'	0.60%	6"	6'6"	6"	7'8"	62.78
13	61+94.09 30.54' RT	10.7'	WCR AT HIGHPOINT	6"	6'6"	6"	6'6"	64.36
16	64+33.74 28.79' LT	14.0'	0.57%	6"	7'8"	6"	6'6"	64.78
24	70+88.84 29.81' RT	6.0'	1.57%	6"	9'0"	6"	6'6"	65.68
25	71+20.28 30.12' RT	15.9'	0.68%	6"	6'6"	6"	7'8"	65.35
27	72+66.88 30.69' LT	10.7'	0.95%	6"	6'6"	6"	7'8"	63.90
31	76+81.89 30.63' RT	13.8'	0.50%	6"	7'8"	6"	6'6"	62.43
46	620+62.56 36.94' LT	11.2'	0.40%	6"	7'8"	6"	6'6"	59.0



WHEELCHAIR RAMP 6
NTS

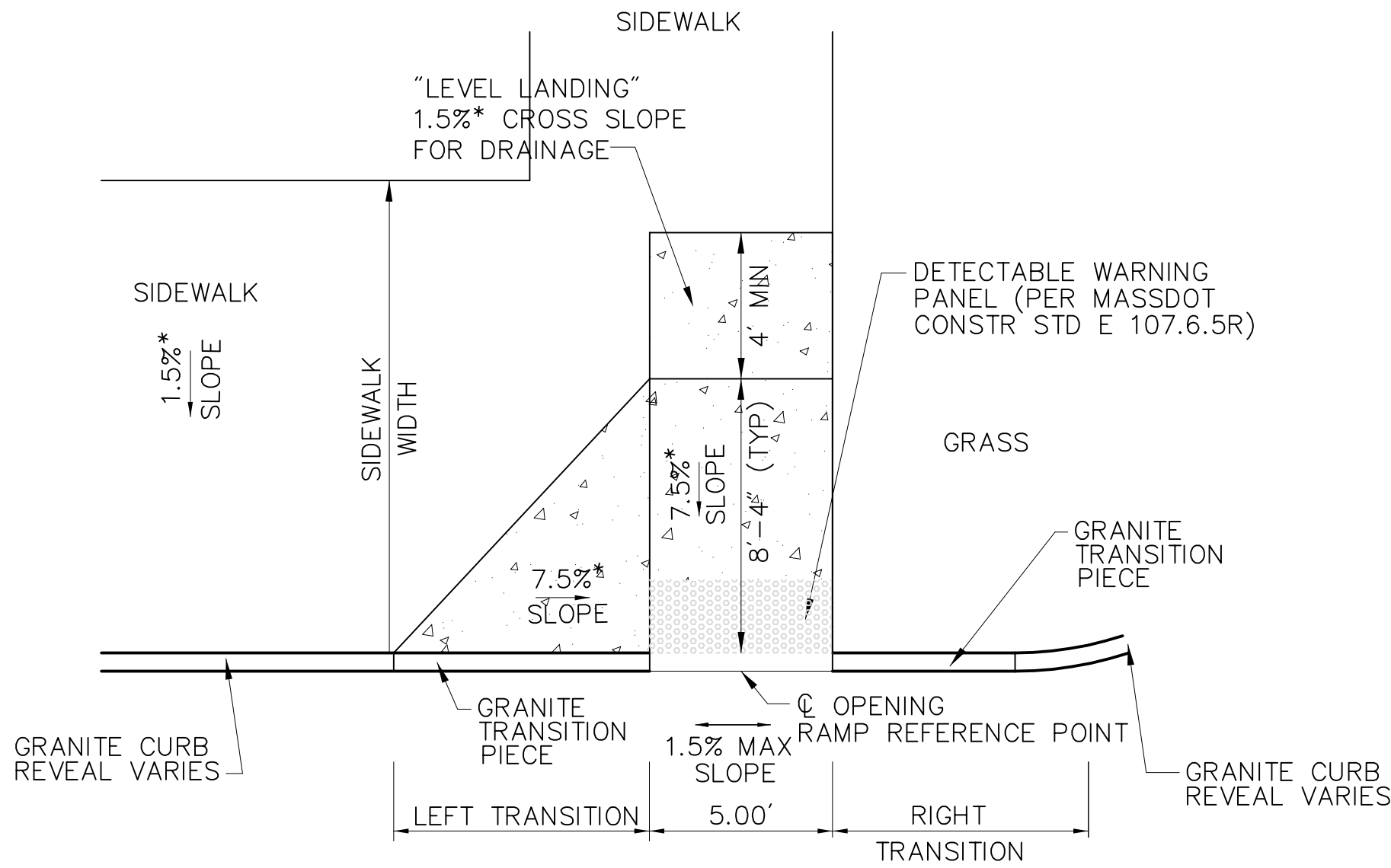
WHEELCHAIR RAMP DATA								
NO.	LOCATION	SIDEWALK WIDTH	ROADWAY GUTTER	LEFT TRANSITION		RIGHT TRANSITION		℄ OPENING ELEVATION
6	57+64.72 23.00' RT	6.0'	0.61%	3"	3'3"	6"	7'8"	63.37

* TOLERANCE FOR CONSTRUCTION ±0.5%



WHEELCHAIR RAMP –
SIDEWALK GREATER THAN 12’–4” AND 3” REVEAL
NTS

WHEELCHAIR RAMP DATA								
NO.	LOCATION	SIDEWALK WIDTH	ROADWAY GUTTER	LEFT REVEAL TRANSITION		RIGHT REVEAL TRANSITION		℄ OPENING ELEVATION
26	72+36.80 25.95' LT	15.1'	1.19%	6"	7'8"	3"	3'3"	64.24



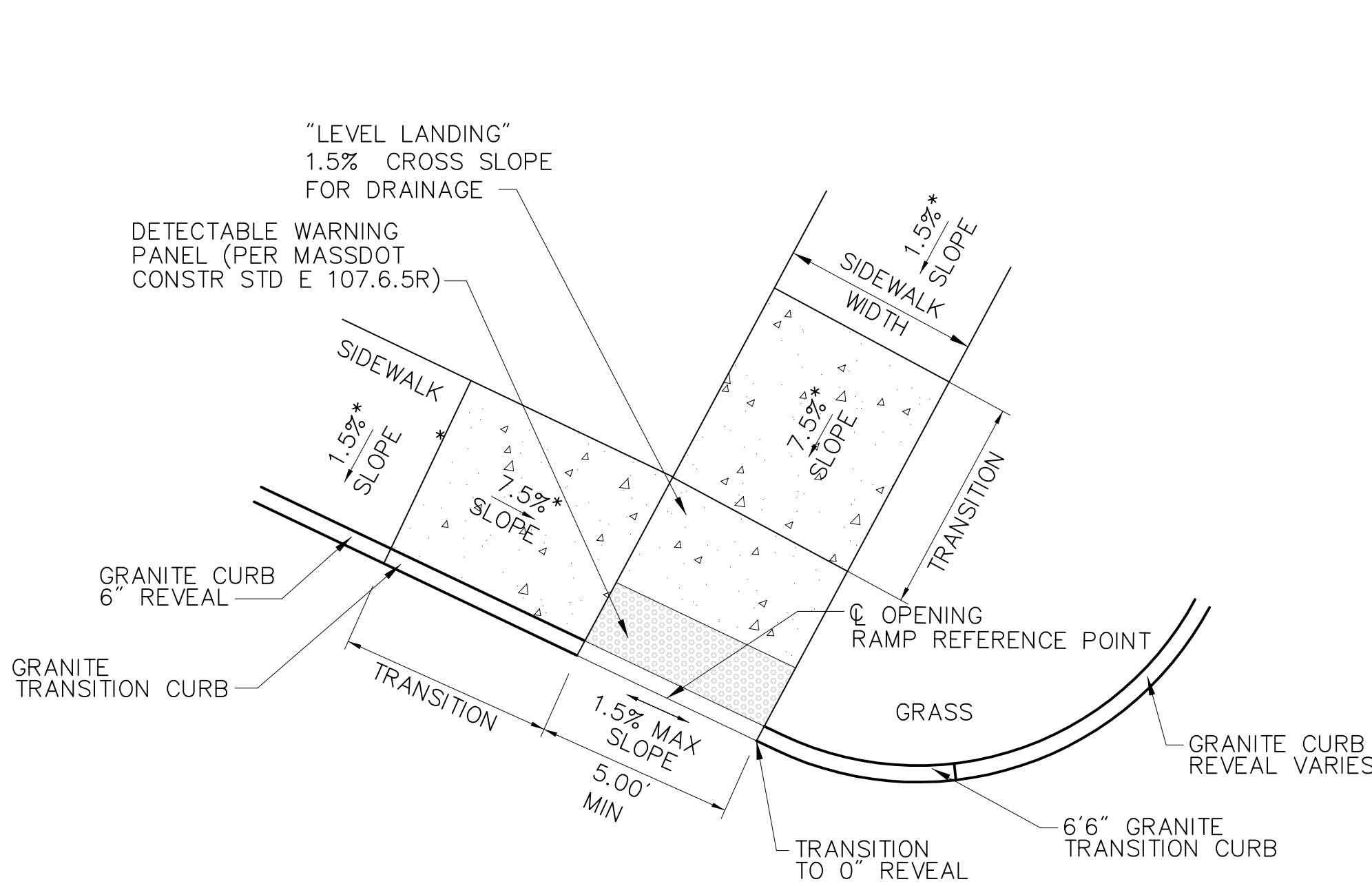
WHEELCHAIR RAMP – SIDEWALK GREATER THAN 12’–4”
WITH GRASS STRIP ON ONE SIDE
NTS

WHEELCHAIR RAMP DATA						
NO.	LOCATION	SIDEWALK WIDTH	ROADWAY GUTTER	TRANSITION LEFT	TRANSITION RIGHT	℄ OPENING ELEVATION
28	73+63.41 26.83’ RT	6.0’	0.73%	6’6”	6’6”	64.01
29	73+97.92 25.83’ RT	10.5’	0.42%	6’6”	6’6”	64.11
30	76+47.78 29.86’ RT	13.4’	WCR AT HIGHPOINT	6’6”	6’6”	62.57

LEGEND

- LIMITS OF CEMENT CONCRETE WHEELCHAIR RAMP
- LIMITS OF DETECTABLE WARNING PANEL (SEE SPECIFICATIONS FOR COLOR)

SEE ALIGNMENT PLANS FOR LOCATIONS

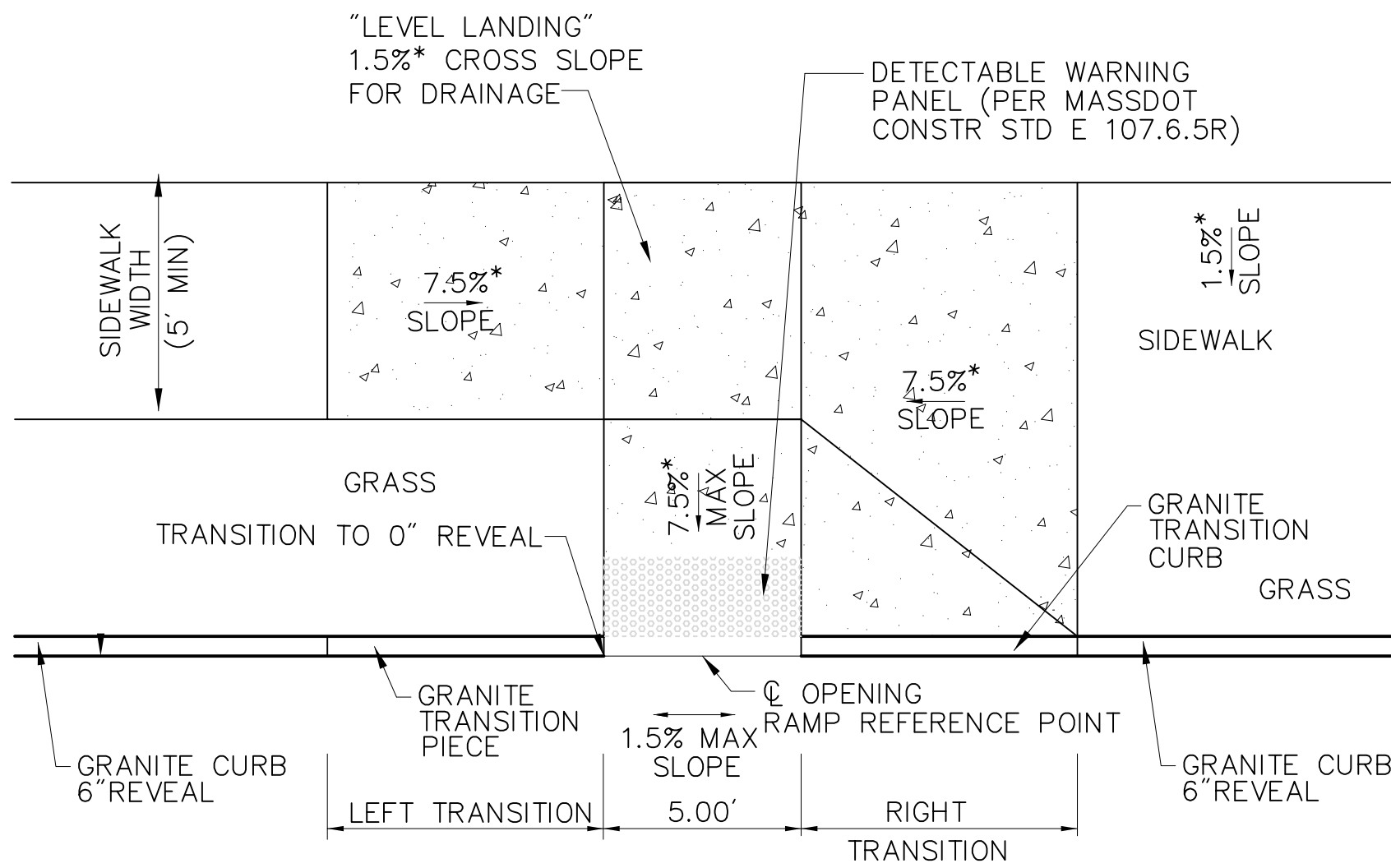


WHEELCHAIR RAMP – T INTERSECTION
WITH GRASS ADJACENT – ONE SIDE

NTS

* TOLERANCE FOR CONSTRUCTION ±0.5%

WHEELCHAIR RAMP DATA								
NO.	LOCATION	SIDEWALK WIDTH	ROADWAY GUTTER	LEFT REVEAL	TRANSITION	RIGHT REVEAL	TRANSITION	℄ OPENING ELEVATION
19	65+88.68 29.61' RT	6.0'	0.91%	6"	6'6"	6"	7'8"	65.29



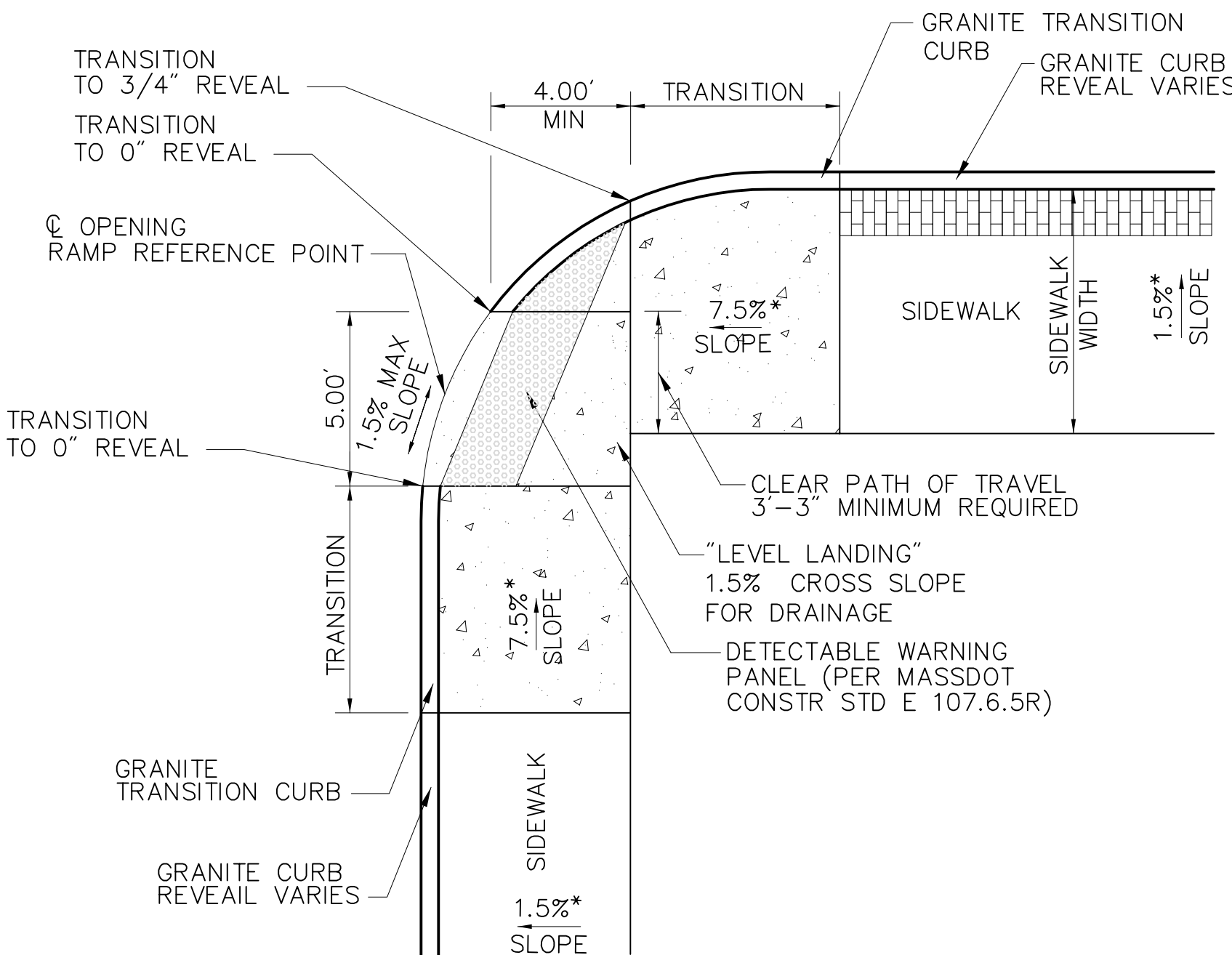
WHEELCHAIR RAMP – IN SIDEWALK LESS THAN 12'4"

WITH GRASS ADJACENT ON ONE SIDE

NTS

* TOLERANCE FOR CONSTRUCTION ±0.5%

WHEELCHAIR RAMP DATA								
NO.	LOCATION	SIDEWALK WIDTH	ROADWAY GUTTER	LEFT REVEAL	TRANSITION	RIGHT REVEAL	TRANSITION	℄ OPENING ELEVATION
42	WASON AVE/ MAIN ST	WILL BE DESIGNED AFTER INTERSECTION APPROVAL						
43	WASON AVE/ MAIN ST	WILL BE DESIGNED AFTER INTERSECTION APPROVAL						
60	627+73.80 19.90' LT	10.0'	0.40%	6"	7'8"	6"	6'6"	57.93
75	WALTER/ MAIN ST	WILL BE DESIGNED AFTER INTERSECTION APPROVAL						

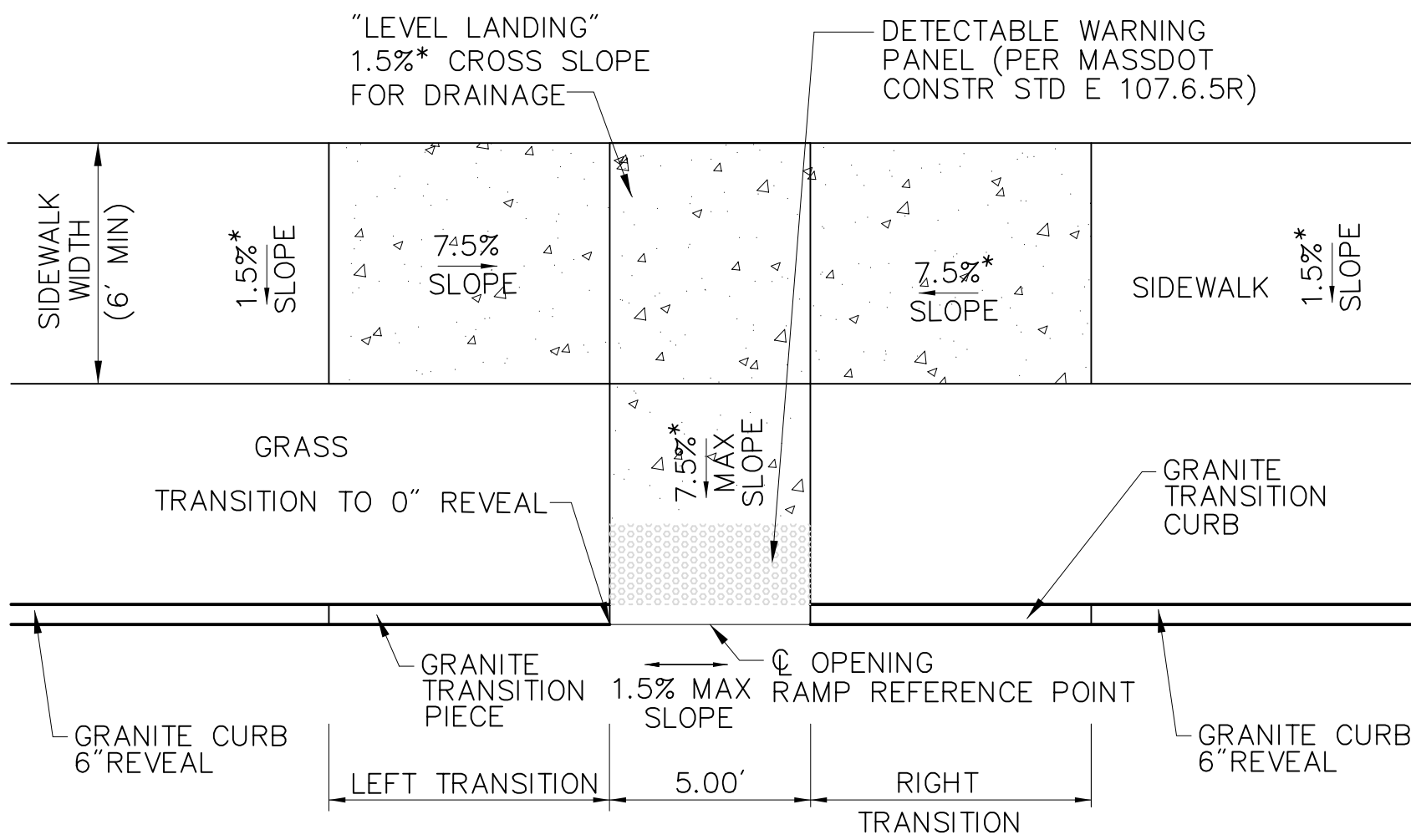


WHEELCHAIR RAMP – T INTERSECTION

NTS

* TOLERANCE FOR CONSTRUCTION ±0.5%

WHEELCHAIR RAMP DATA								
NO.	LOCATION	SIDEWALK WIDTH	ROADWAY GUTTER	LEFT REVEAL	TRANSITION	RIGHT REVEAL	TRANSITION	℄ OPENING ELEVATION
10	58+55.17 31.28' LT	9.1'	0.66%	6"	6'6"	6"	7'8"	63.43
18	65+58.86 30.28' RT	9.1'	0.57%	6"	7'8"	8"	8'8"	65.29
21	68+72.65 29.77' RT	10.0'	HIGHPOINT	8"	6'6"	6"	6'6"	66.08



WHEELCHAIR RAMP –
WITH GRASS ADJACENT ON BOTH SIDES

NTS

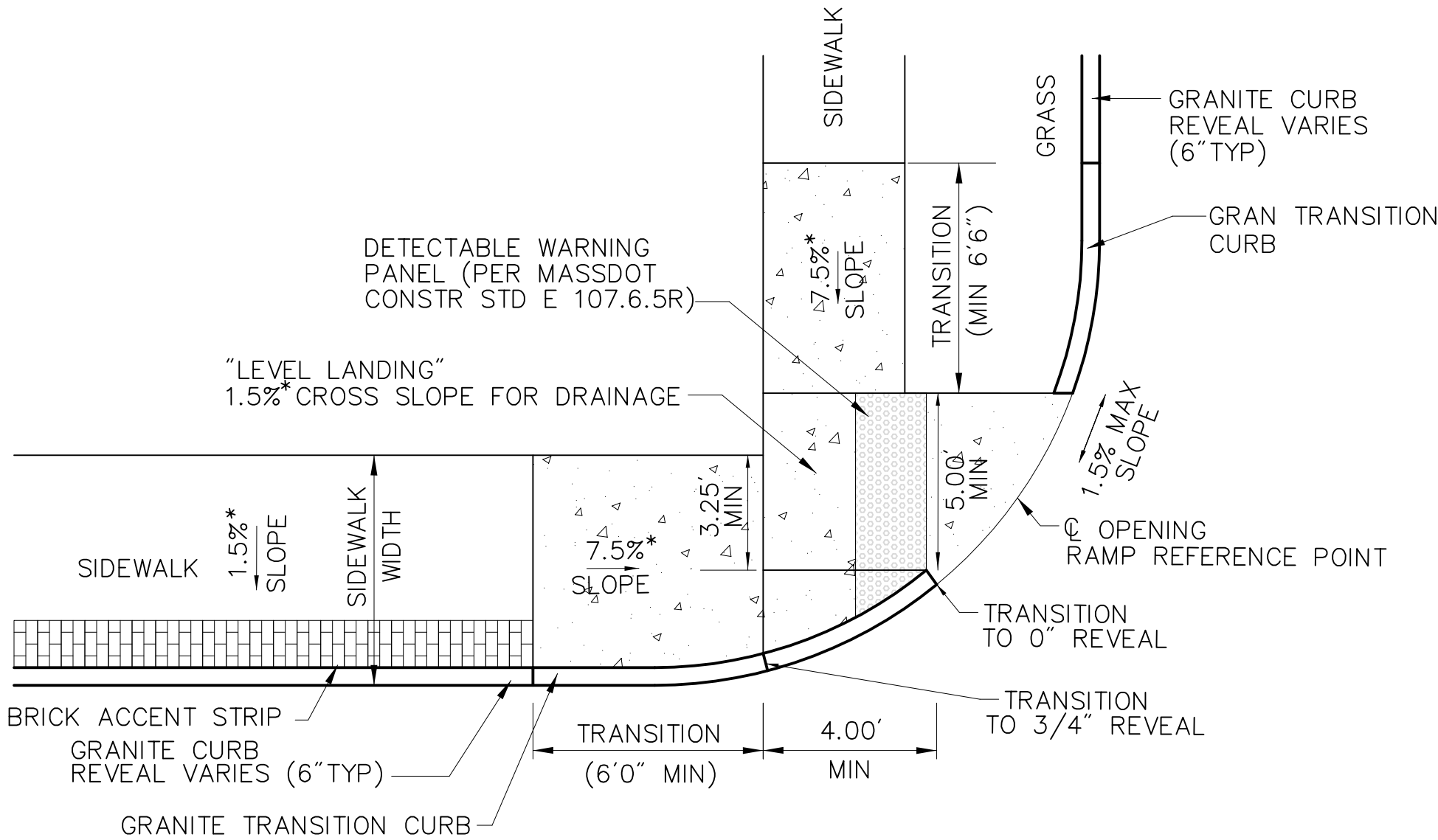
WHEELCHAIR RAMP DATA								
NO.	LOCATION	SIDEWALK WIDTH	ROADWAY GUTTER	LEFT REVEAL	TRANSITION	RIGHT REVEAL	TRANSITION	℄ OPENING ELEVATION
49	603+50 15.45' LT	5.0'	1.00%	6"	7'8"	6"	6'6"	63.15
54	619+81.00 14.83' RT	5.0'	0.40%	6"	6'6"	6"	7'8"	59.33
55	610+02.69 15.00' RT	5.0'	0.60%	6"	7'8"	6"	6'6"	58.96
72	79+53.00 23.00' RT	5.0'	1.58%	3"	4'6"	6"	6'6"	58.96

SPRINGFIELD
NORTH END/BRIGHTWOOD – NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	---	104	145

PROJECT FILE NO. 605222

CONSTRUCTION DETAILS



WHEELCHAIR RAMP – T INTERSECTION
WITH GRASS ADJACENT – ONE SIDE

NTS

* TOLERANCE FOR CONSTRUCTION ±0.5%

WHEELCHAIR RAMP DATA								
NO.	LOCATION	SIDEWALK WIDTH	ROADWAY GUTTER	LEFT REVEAL	TRANSITION	RIGHT REVEAL	TRANSITION	℄ OPENING ELEVATION
2	53+23.04 29.02' RT	9.0'	0.71%	6"	6'6"	6"	7'8"	63.81
3	53+57.96 28.40' RT	7.9'	0.80%	6"	7'8"	6"	6'6"	64.03
5	56+35.27 31.18' LT	10.0'	WCR AT HIGHPOINT	6"	6'6"	6"	6'6"	63.23
15	62+04.10 30.77' LT	11.0'	WCR AT HIGHPOINT	6"	6'6"	6"	6'6"	64.43
17	64+64.26 30.41' LT	10.0'	1.47%	6"	6'6"	8"	12'0"	64.87
20	68+42.47 29.76' RT	6.0'	0.70%	6'6"	8'0"	6"	6'6"	65.77
22	69+80.79 30.39' LT	10.0'	1.24%	8"	12'0"	6"	6'6"	65.45
23	70+09.60 31.03' LT	10.0'	0.67%	6"	6'6"	6"	7'8"	65.47

LEGEND

-
- LIMITS OF CEMENT CONCRETE
-
- WHEELCHAIR RAMP

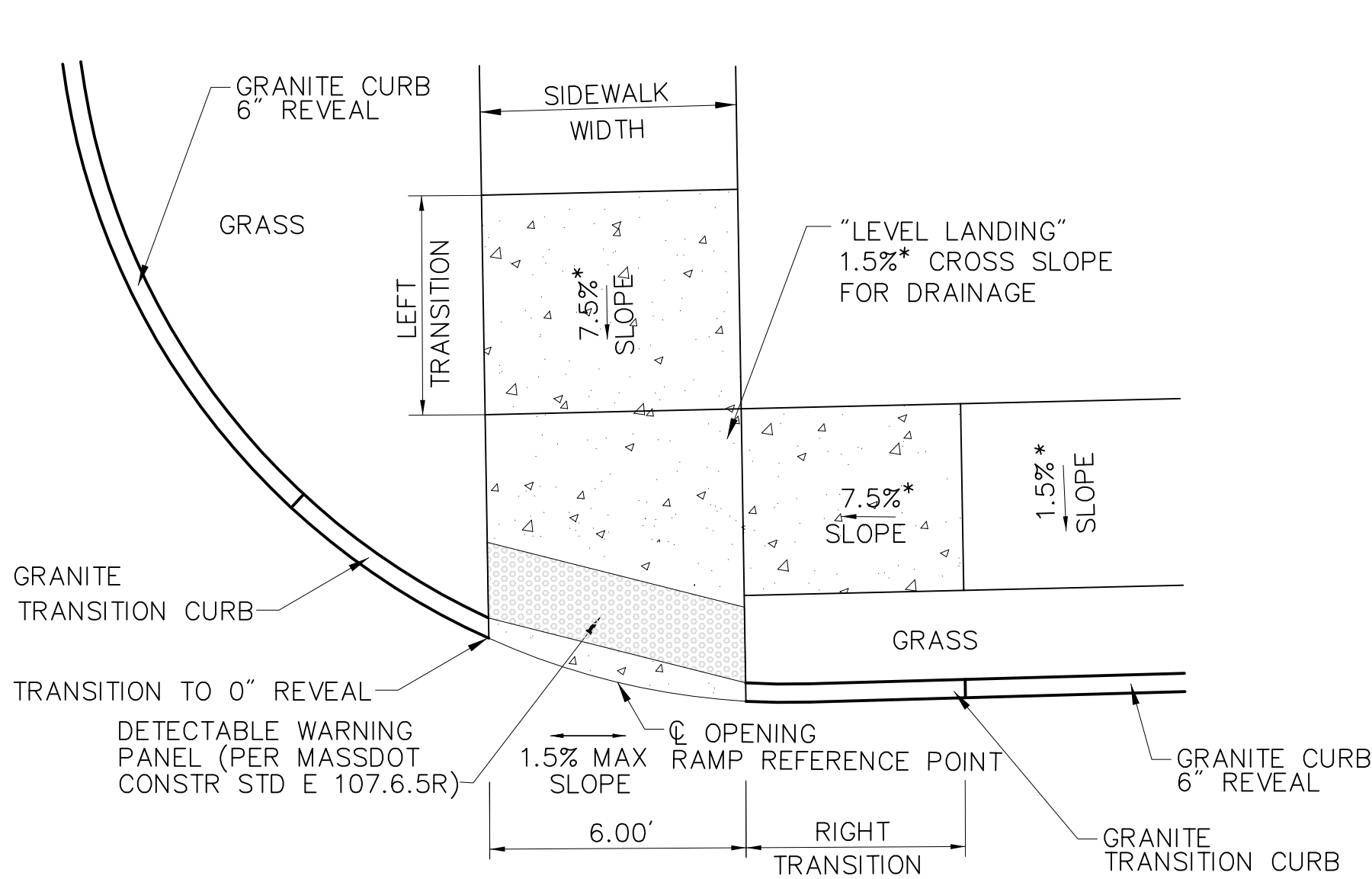
SEE ALIGNMENT PLANS FOR LOCATIONS

SPRINGFIELD
NORTH END/BRIGHTWOOD – NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	105	145

PROJECT FILE NO. 605222

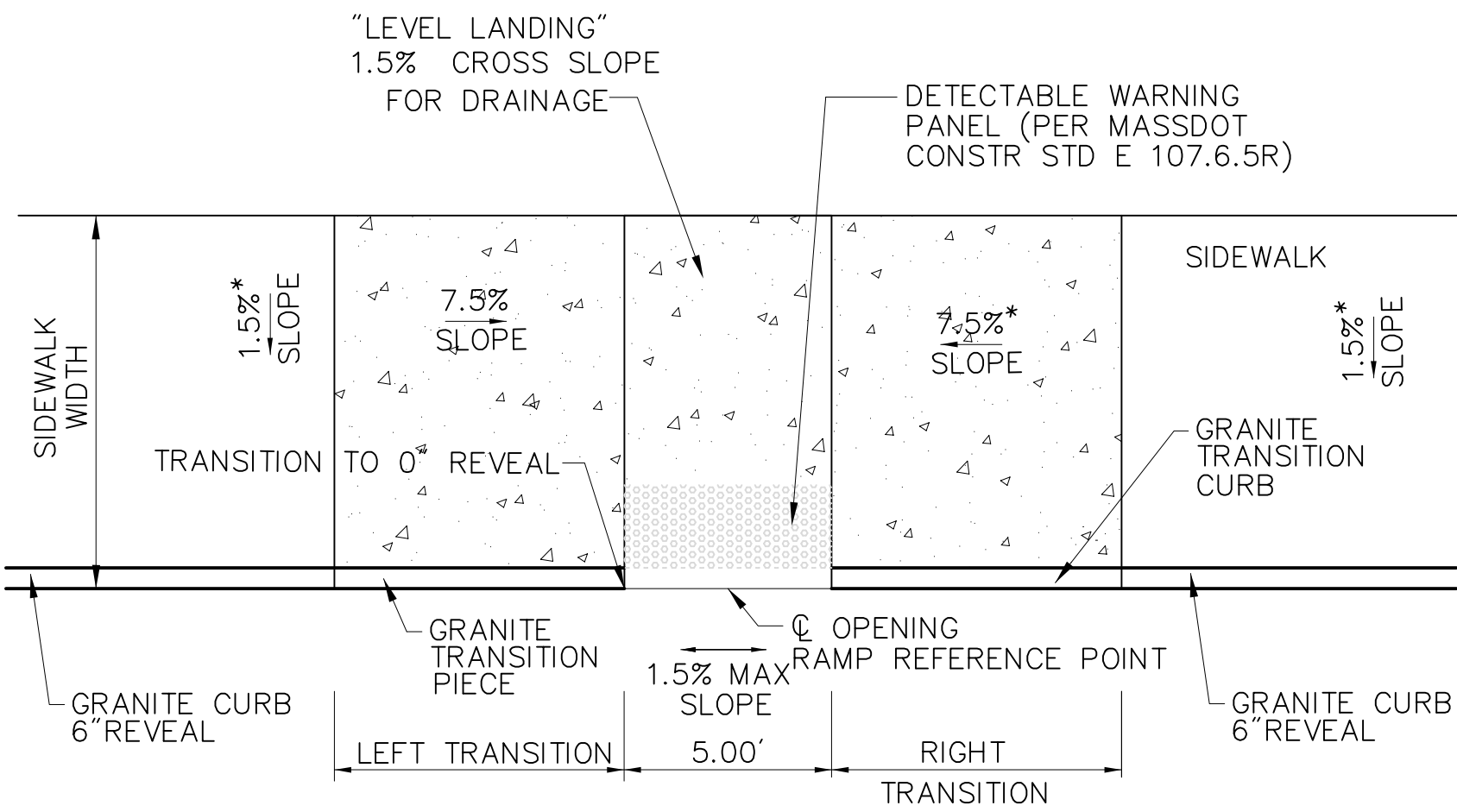
CONSTRUCTION DETAILS



WHEELCHAIR RAMP – T-INTERSECTION
WITH GRASS ADJACENT
NTS

* TOLERANCE FOR CONSTRUCTION ±0.5%

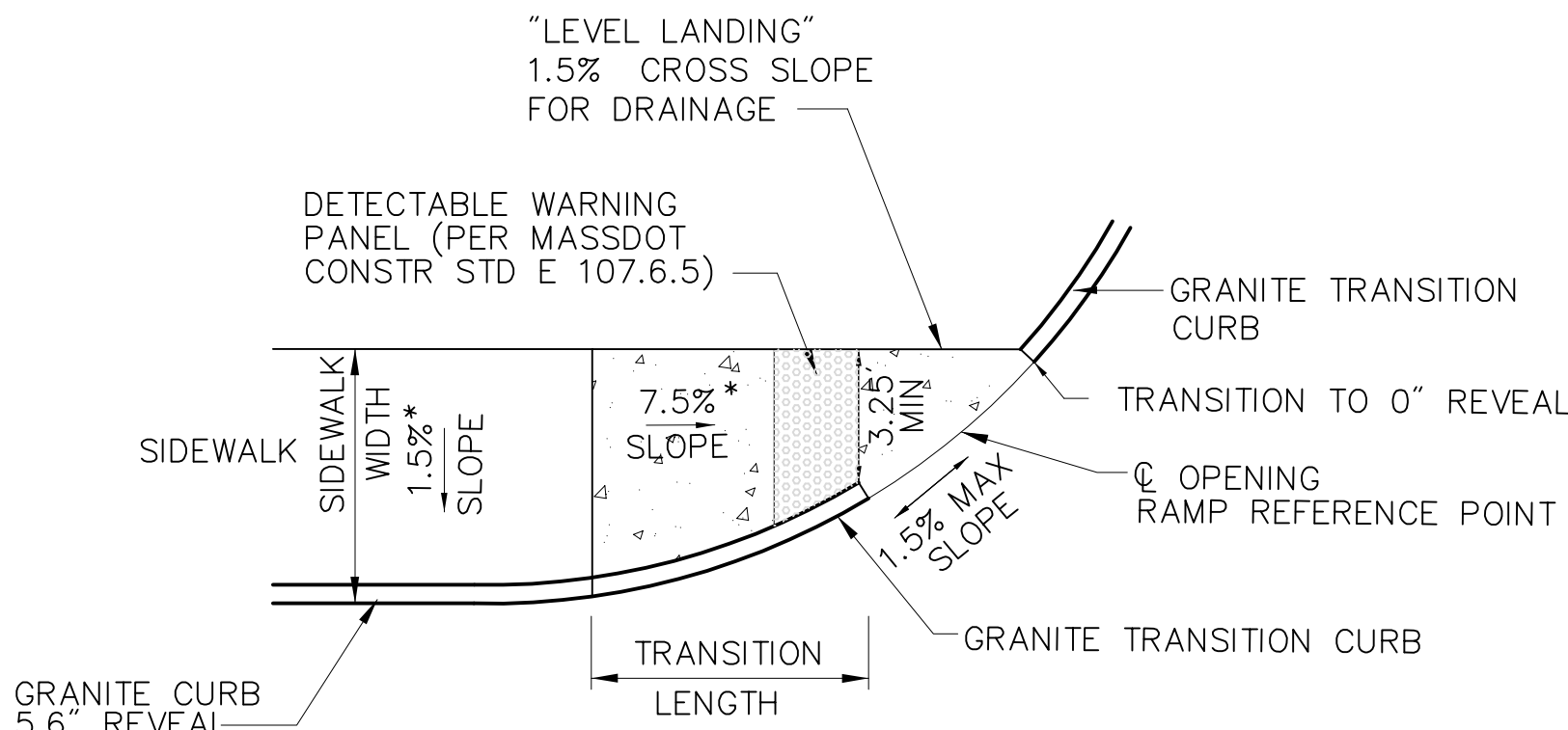
WHEELCHAIR RAMP DATA						
NO.	LOCATION	SIDEWALK WIDTH	ROADWAY GUTTER	TRANSITION LEFT	TRANSITION RIGHT	℄ OPENING ELEVATION
11	58+83.84 29.14' LT	6.0'	WCR AT HIGHPOINT	6'6"	6'6"	63.81
12	61+56.46 29.89' RT	6.0'	WCR AT HIGHPOINT	6'6"	6'6"	64.36
14	61+74.74 30.89' LT	6.0'	0.49%	6'6"	6'6"	64.21
47	403+30.73 21.64' RT	6.0'	0.40%	6'6"	6'6"	63.41
51	503+78.27 23.86' RT	6.0'	WCR AT HIGHPOINT	6'6"	6'6"	61.85



*TOLERANCE FOR CONSTRUCTION ±0.5%

WHEELCHAIR RAMP –
IN SIDEWALK LESS THAN 6'6"
NTS

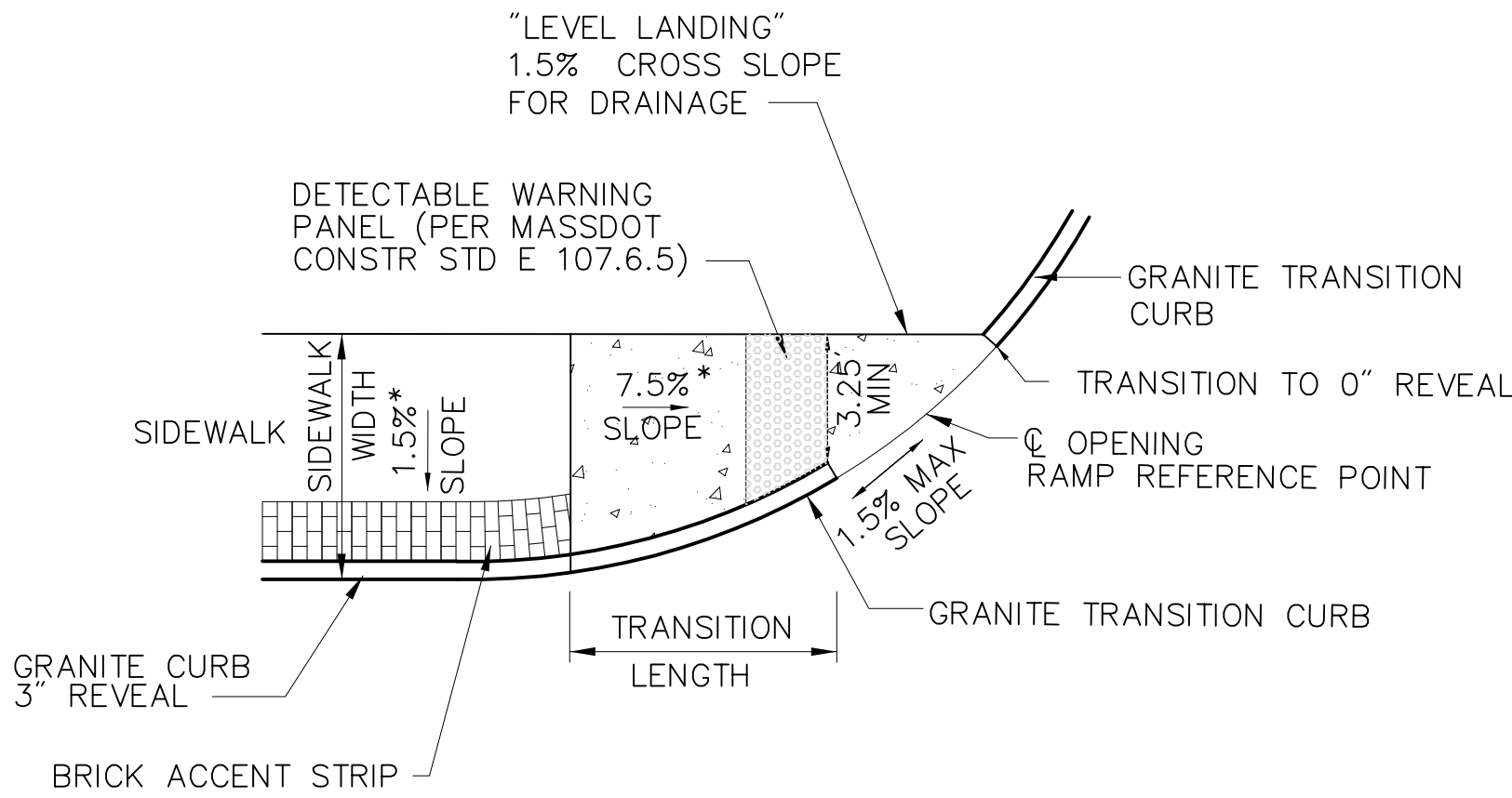
WHEELCHAIR RAMP DATA							
NO.	LOCATION	SIDEWALK WIDTH	ROADWAY GUTTER	LEFT REVEAL	TRANSITION	RIGHT REVEAL	TRANSITION
56	610+02.71 14.75' LT	6.0'	–0.40%	6"	6'6"	6"	7'8"



WHEELCHAIR RAMP
SINGLE DIRECTION
NTS

* TOLERANCE FOR CONSTRUCTION ±0.5%

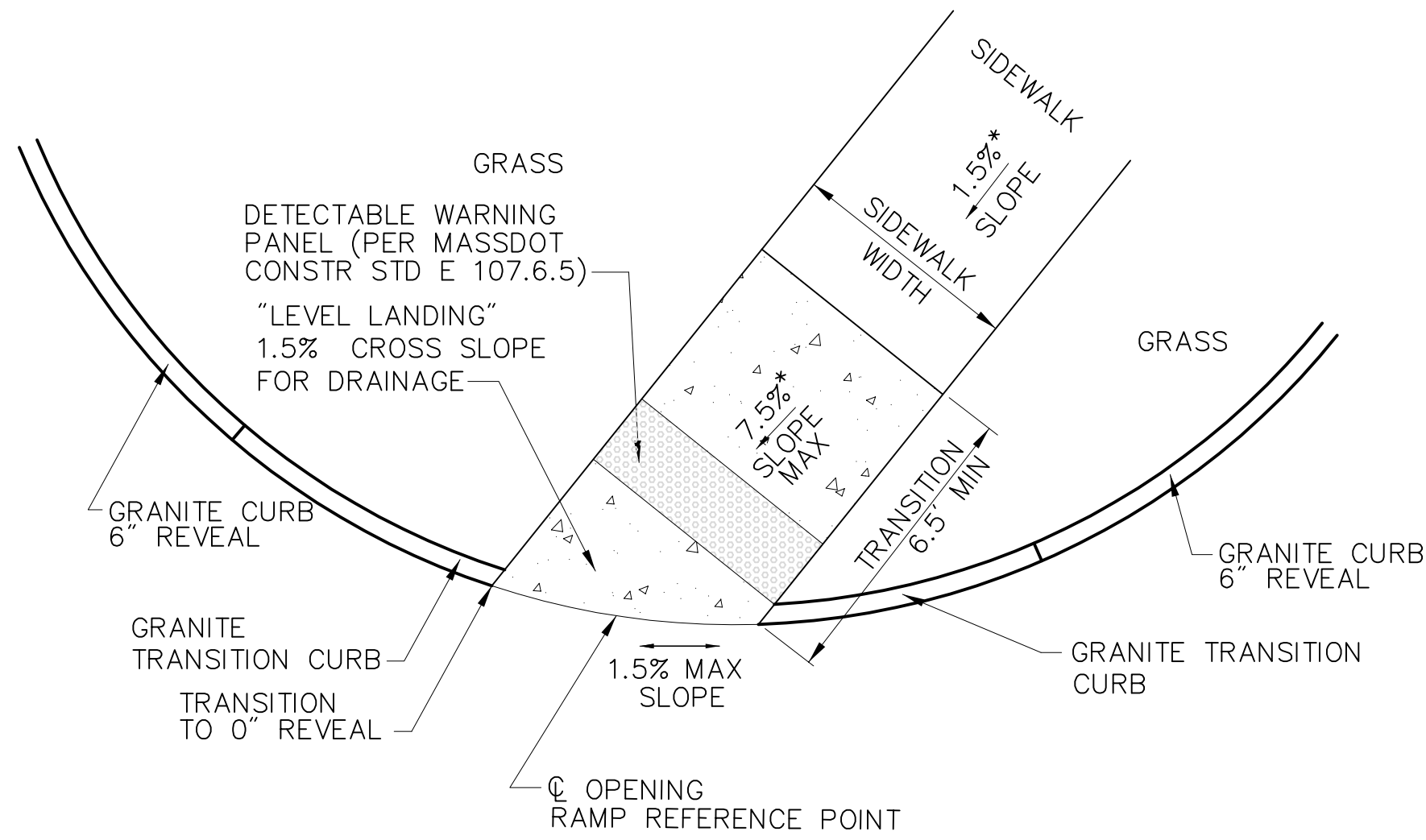
WHEELCHAIR RAMP DATA						
NO.	LOCATION	SIDEWALK WIDTH	ROADWAY GUTTER	TRANSITION	REVEAL	℄ OPENING ELEVATION
45	620+07.12 22.30' LT	10.2'	0.80%	3'10"	3"	59.18
48	403+63.01 22.13' RT	6.0'	0.49%	6'6"	6"	63.53



WHEELCHAIR RAMP SINGLE DIRECTION
WITH BRICK ACCENT STRIP
NTS

* TOLERANCE FOR CONSTRUCTION ±0.5%

WHEELCHAIR RAMP DATA						
NO.	LOCATION	SIDEWALK WIDTH	ROADWAY GUTTER	TRANSITION	REVEAL	℄ OPENING ELEVATION
8	57+57.81 30.19' RT	9.9'	0.59%	3'8"	3"	63.22

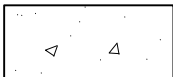
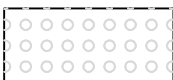


WHEELCHAIR RAMP – SINGLE DIRECTION
GRASS ADJACENT
NTS

* TOLERANCE FOR CONSTRUCTION ±0.5%

WHEELCHAIR RAMP DATA					
NO.	LOCATION	SIDEWALK WIDTH	ROADWAY GUTTER	TRANSITION	℄ OPENING ELEVATION
9	58+54.09 30.24' RT	6.0'	0.73%	6'6"	63.61
32	78+26.39 30.25' LT	6.0'	1.33%	9'0"	62.03
34	82+24.15 29.22' RT	6.0'	0.70%	7'8"	61.65
35	91+29.80 29.99' LT	6.0'	2.00%	6'6"	62.51
36	91+74.38 29.85' LT	6.0'	2.20%	6'6"	62.70
52	504+08.46 22.44' RT	6.0'	WCR AT HIGHPOINT	6'6"	61.39
57	628+11.14 26.67' RT	5.0'	1.00%	6'6"	58.09
58	626+45.57 26.22' RT	5.0'	0.40%	6'6"	57.93
61	628+61.30 27.31' RT	5.0'	0.84%	6'6"	57.77
70	626+00.62 26.24' RT	5.0'	0.84%	7'8"	57.66
71	79+29.59 30.44' LT	6.0'	–1.58%	6'6"	62.49

LEGEND

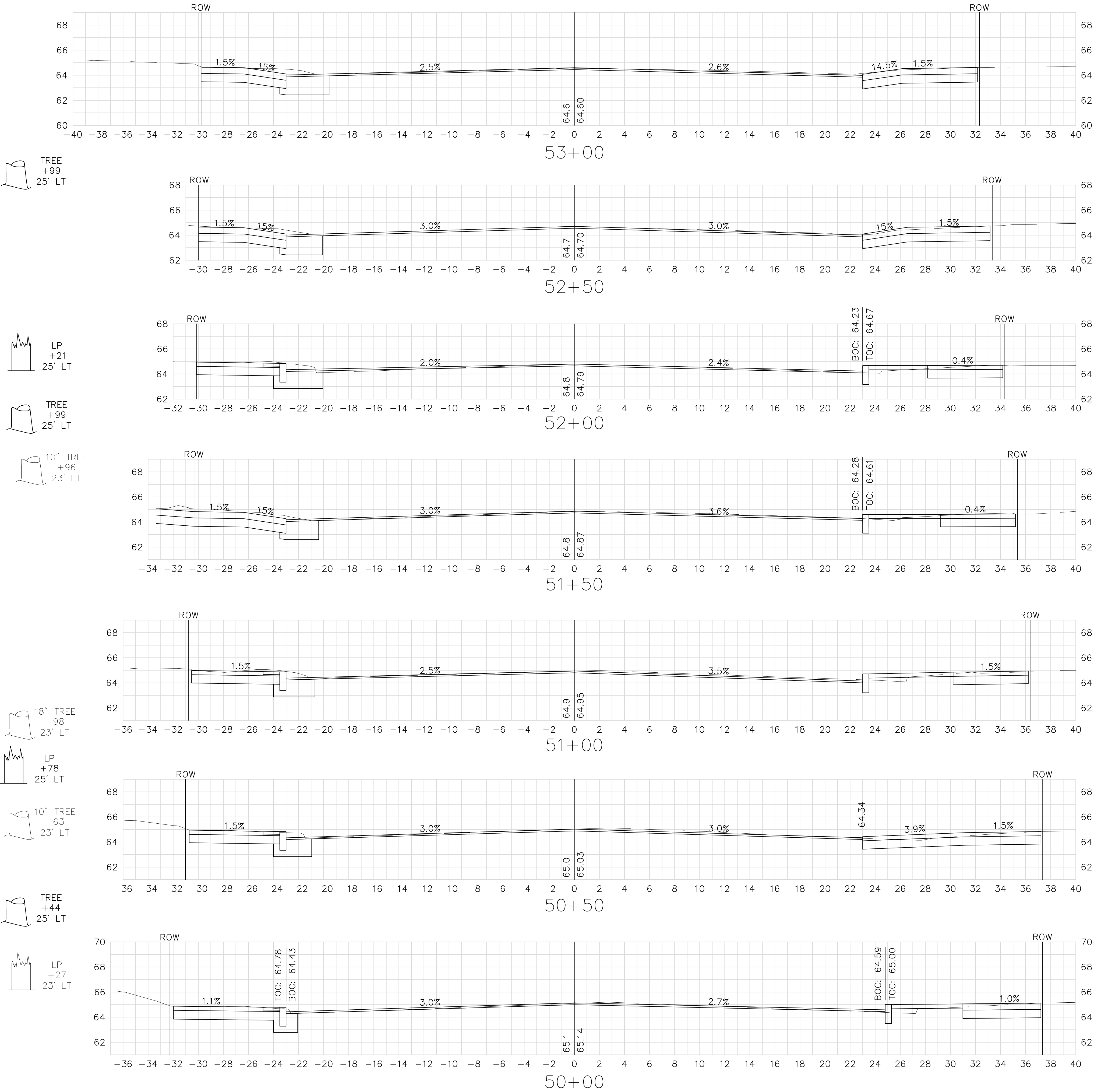
- LIMITS OF CEMENT CONCRETE
WHEELCHAIR RAMP
- LIMITS OF DETECTABLE WARNING
PANEL (SEE SPECIFICATIONS FOR COLOR)

SEE ALIGNMENT PLANS FOR LOCATIONS

SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	106	145
PROJECT FILE NO. 605222			

CROSS SECTIONS
MAIN (ROUTE 116) STREET



TREE
+99
25' LT

LP
+21
25' LT

TREE
+99
25' LT

10" TREE
+96
23' LT

18" TREE
+98
23' LT

LP
+78
25' LT

10" TREE
+63
23' LT

TREE
+44
25' LT

LP
+27
23' LT

LP
+96
24' RT

20" TREE
+66
25' RT

TREE
+84
27' RT

4" TREE
+61
27' RT

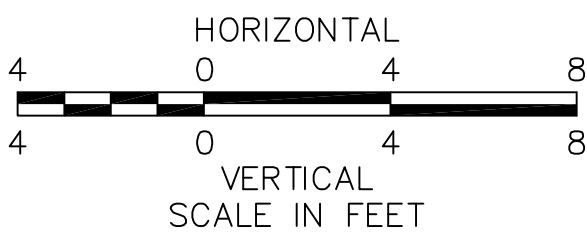
LP
+35
27' RT

30" TREE
+24
29' RT

30" TREE
+92
29' RT

TREE
+53
28' RT

5" TREE
+24
30' RT



FOR GENERAL PLANS SEE SHEET NOS. 8-9

SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	107	145
PROJECT FILE NO. 605222			

CROSS SECTIONS
MAIN (ROUTE 116) STREET

LP
+96
26' LT

20" TREE
+90
25' LT

TREE
+53
25' LT

30" TREE
+53
23' LT

LP
+09
25' LT

TREE
+60
25' LT

TREE
+94
25' LT

LP
+68
25' RT

TREE
+50
25' LT

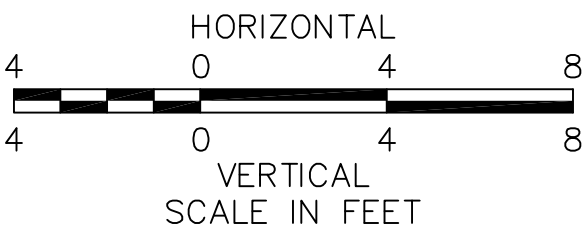
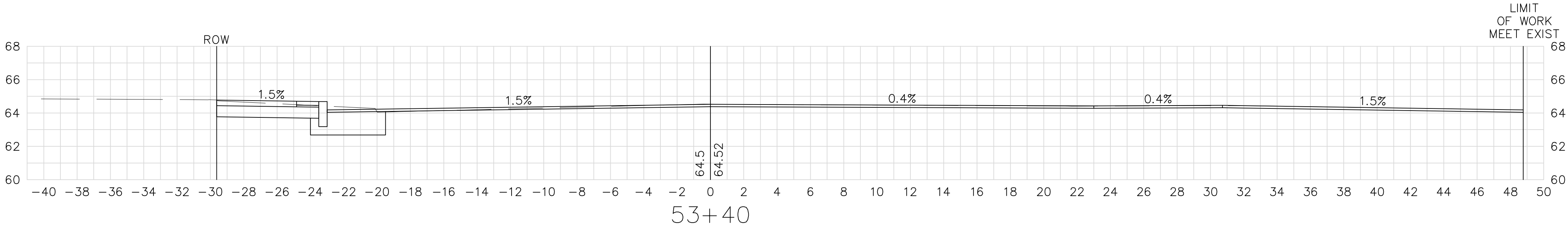
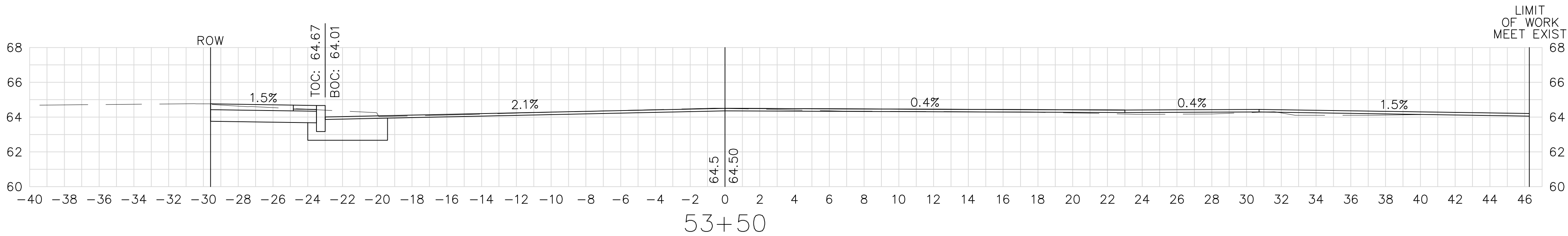
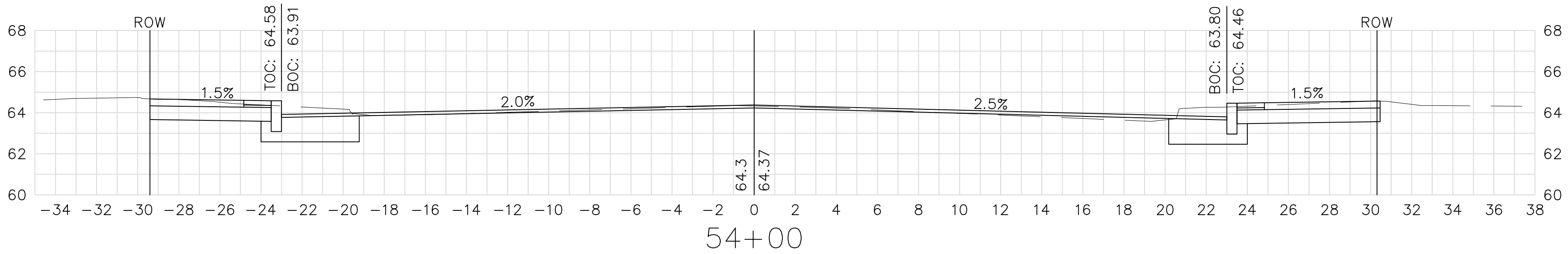
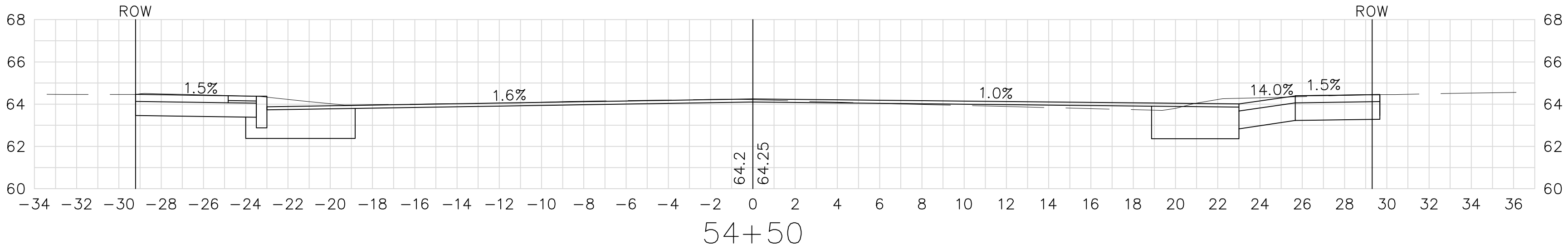
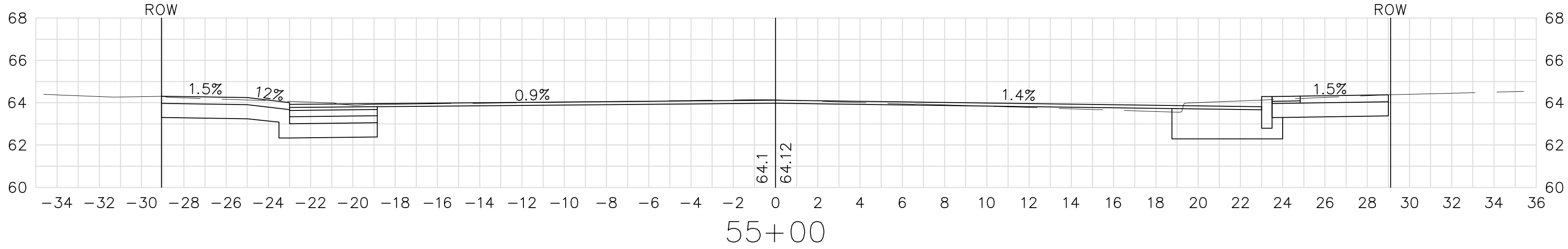
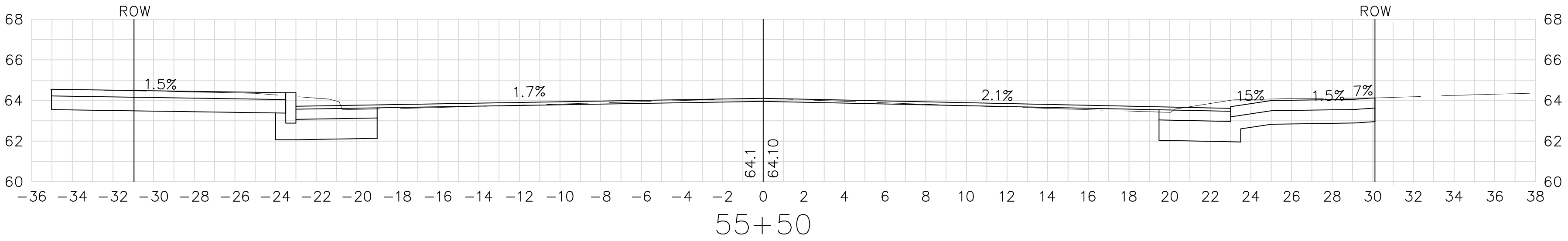
TREE
+33
25' RT

6" TREE
+83
21' RT

TREE
+61
25' RT

LP
+34
25' RT

TREE
+11
25' RT



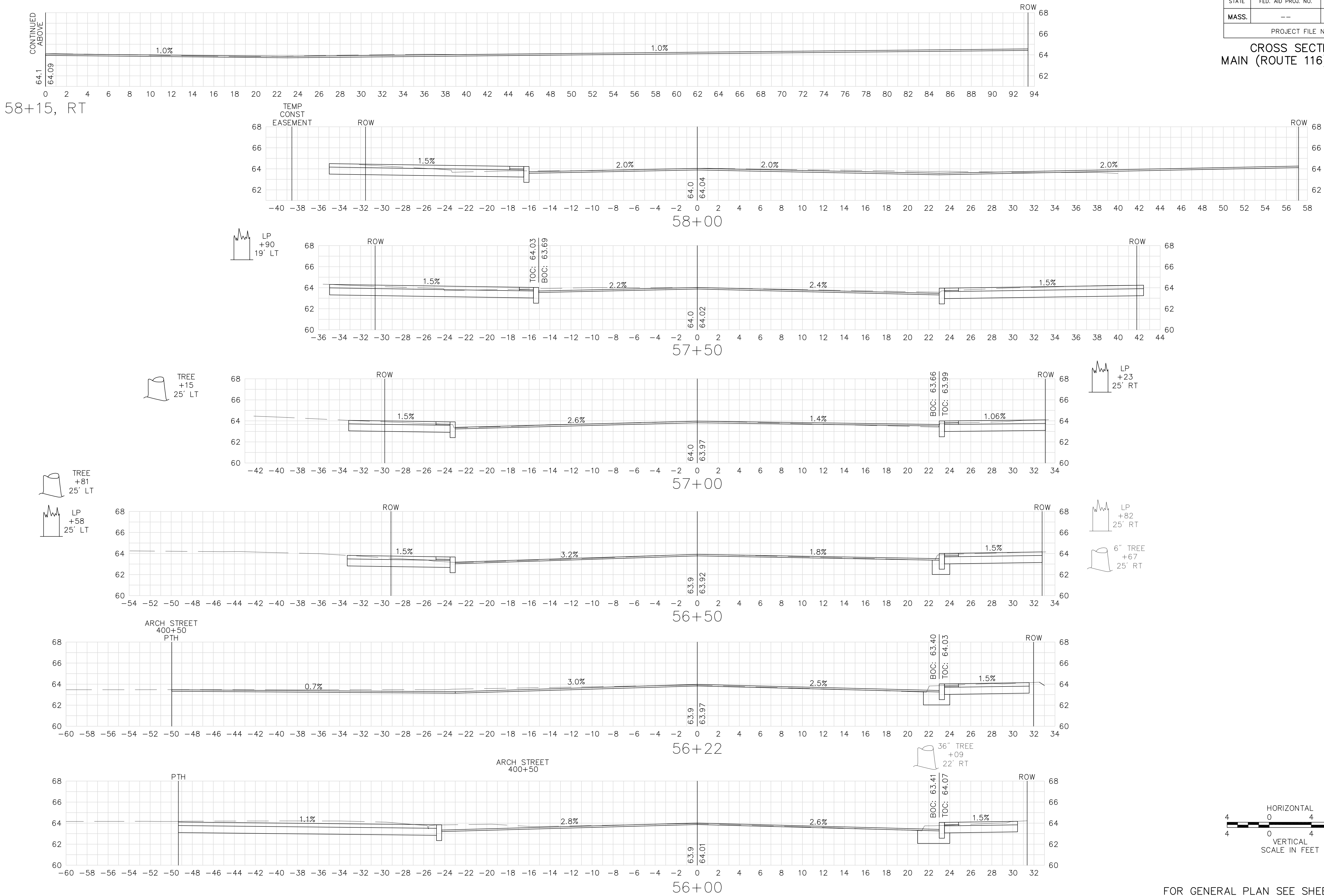
FOR GENERAL PLAN SEE SHEET NO. 9

SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	108	145

PROJECT FILE NO. 605222

CROSS SECTIONS
MAIN (ROUTE 116) STREET



FOR GENERAL PLAN SEE SHEET NOS. 9-10

SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	109	145
PROJECT FILE NO. 605222			

CROSS SECTIONS
MAIN (ROUTE 116) STREET

LP
+13
25' RT

4" TREE
+77
25' RT

TREE
+31
25' RT

LP
+78
35' RT

TREE
+66
46' RT

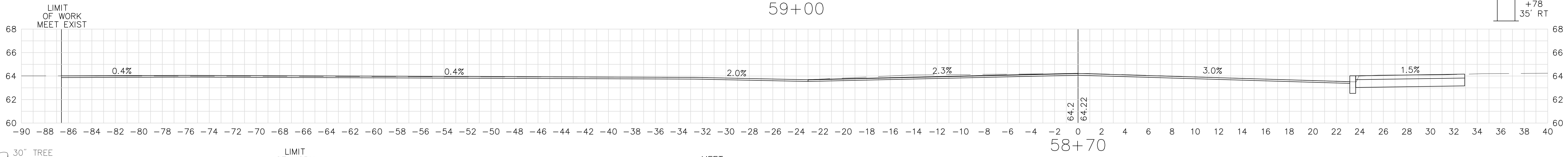
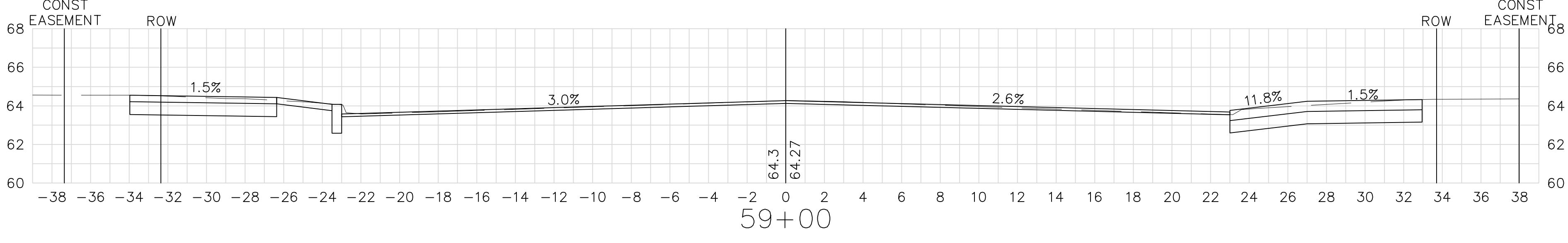
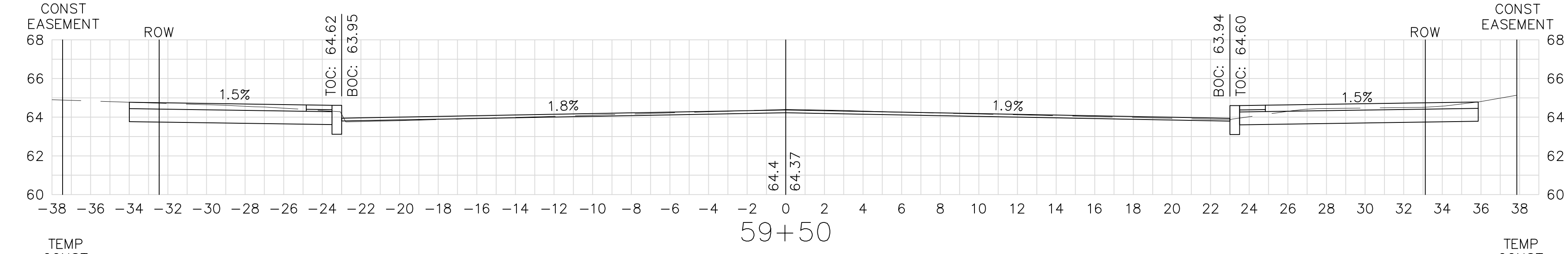
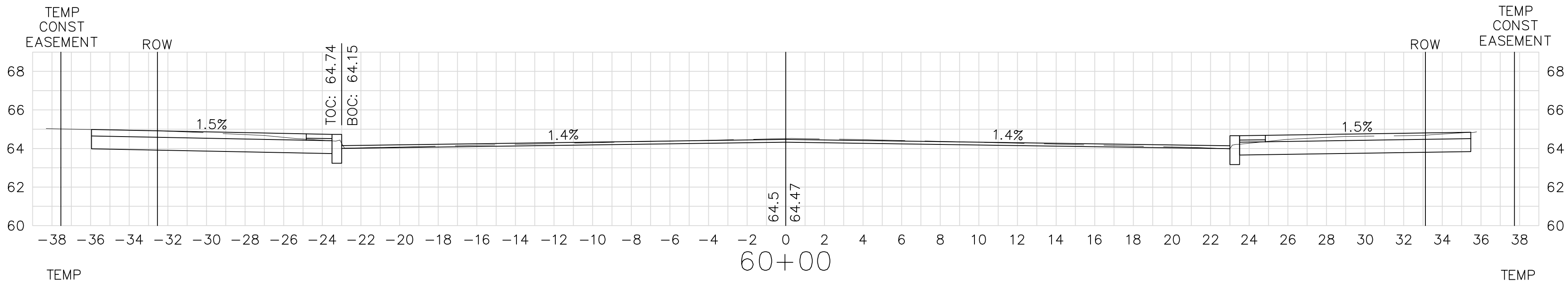
10" TREE
+26
24' LT

TREE
+88
25' LT

TREE
+57
25' LT

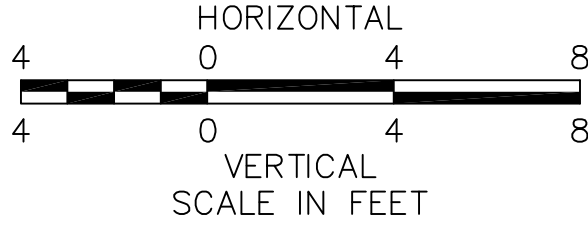
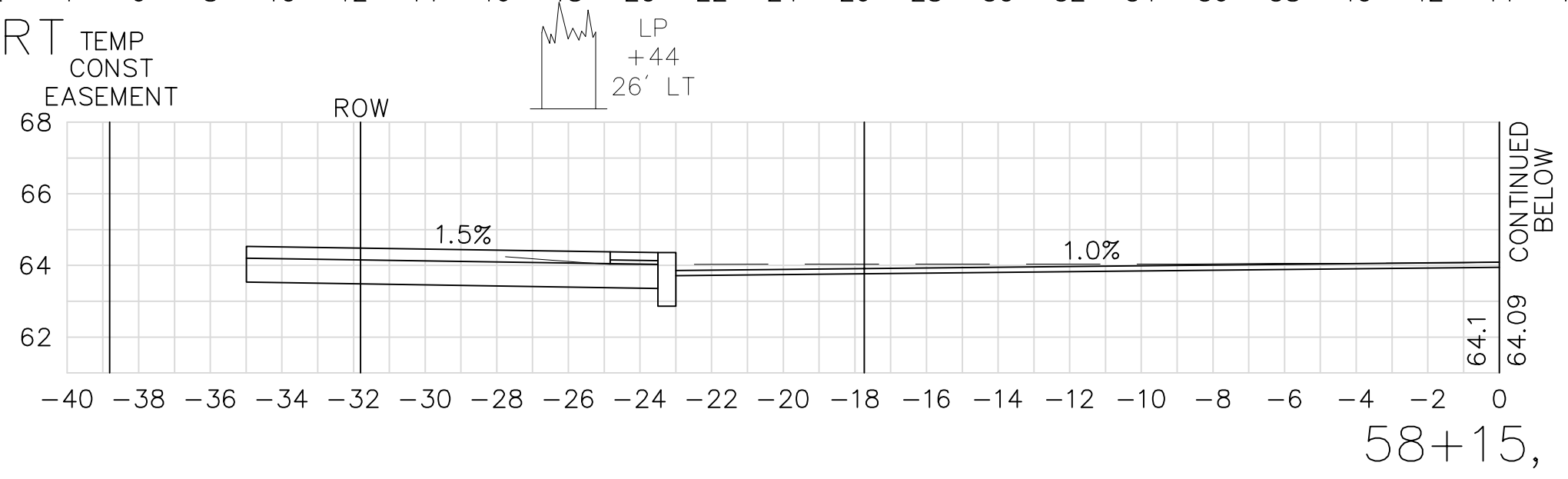
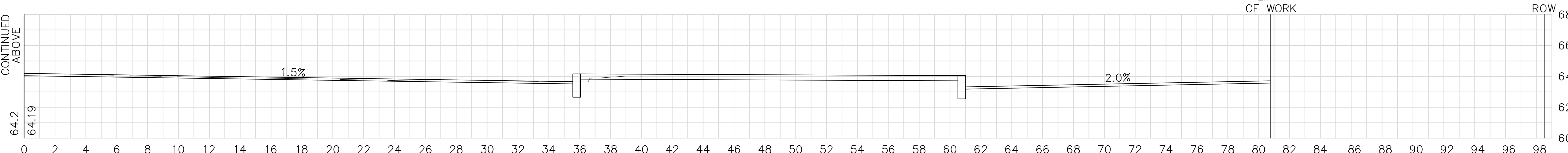
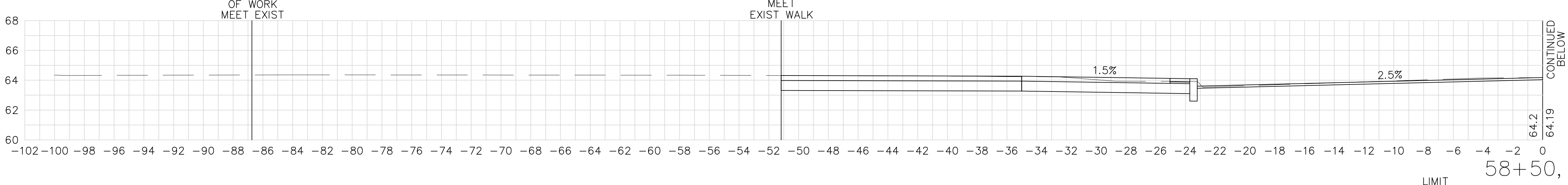
LP
+40
26' LT

8" TREE
+25
25' LT



30" TREE
+86
73' LT

HYD
+51
41' LT



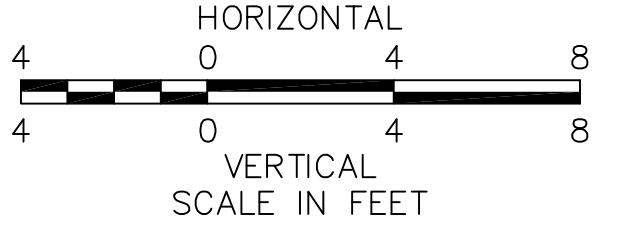
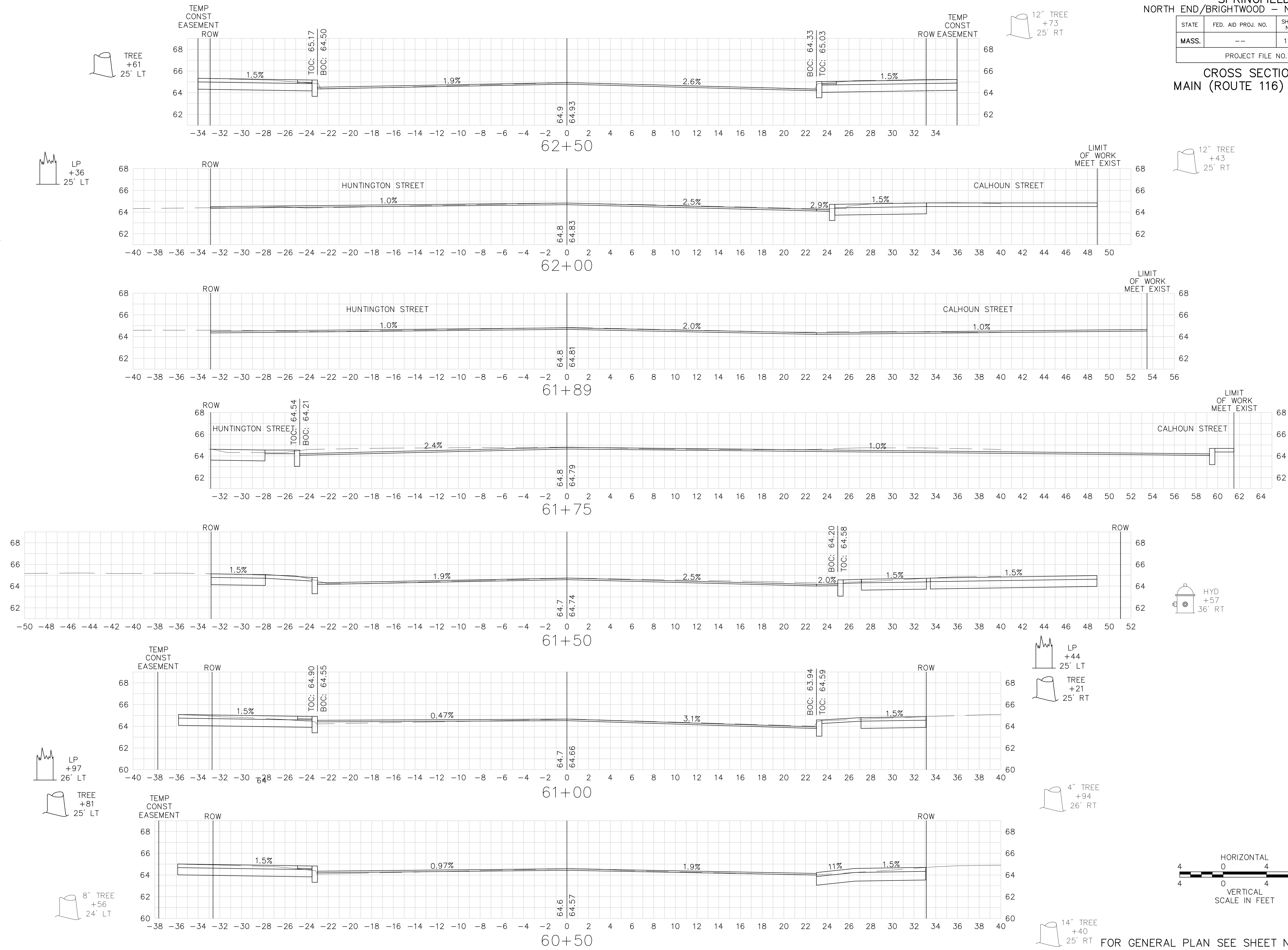
FOR GENERAL PLAN SEE SHEET NO. 10

SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	110	145

PROJECT FILE NO. 605222

CROSS SECTIONS
MAIN (ROUTE 116) STREET

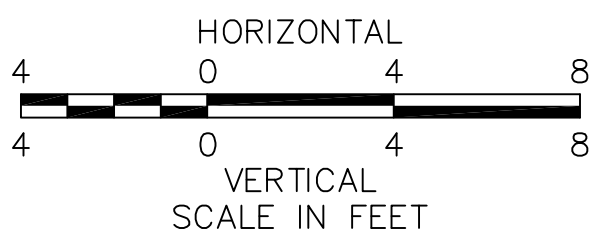
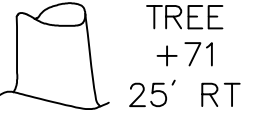
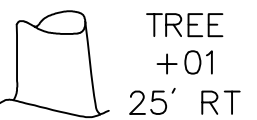
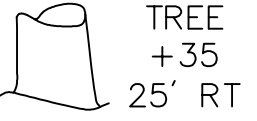
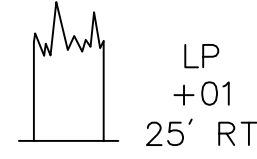
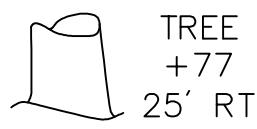
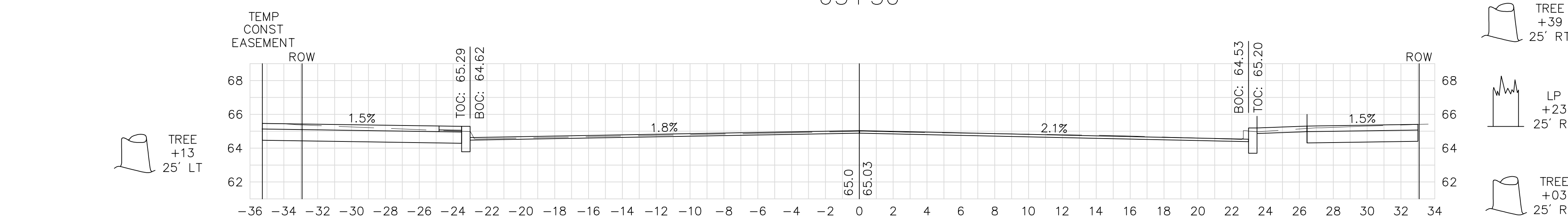
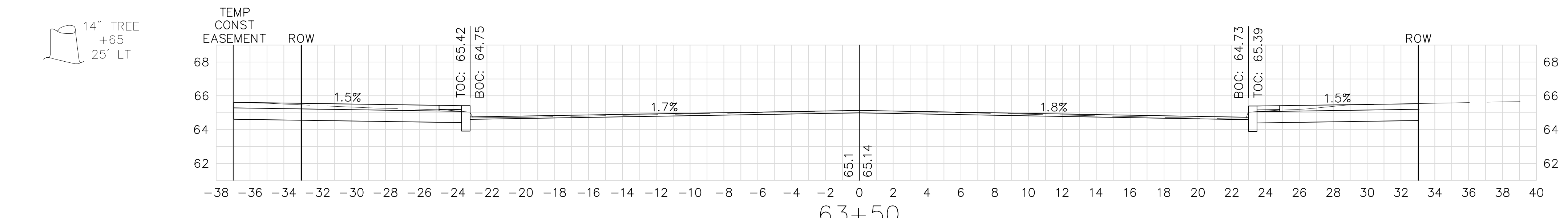
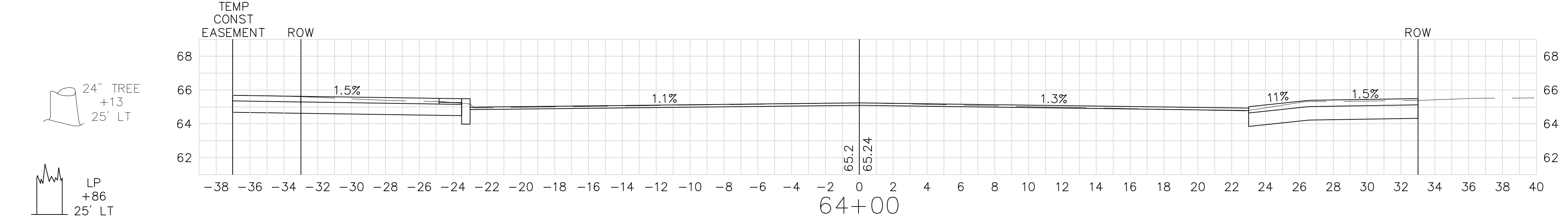
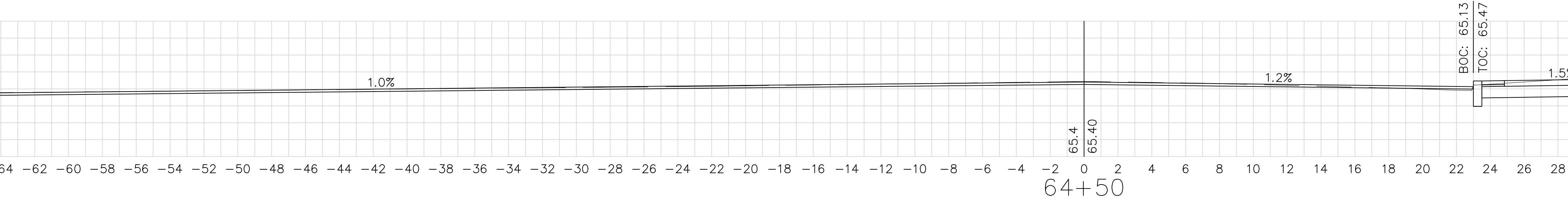
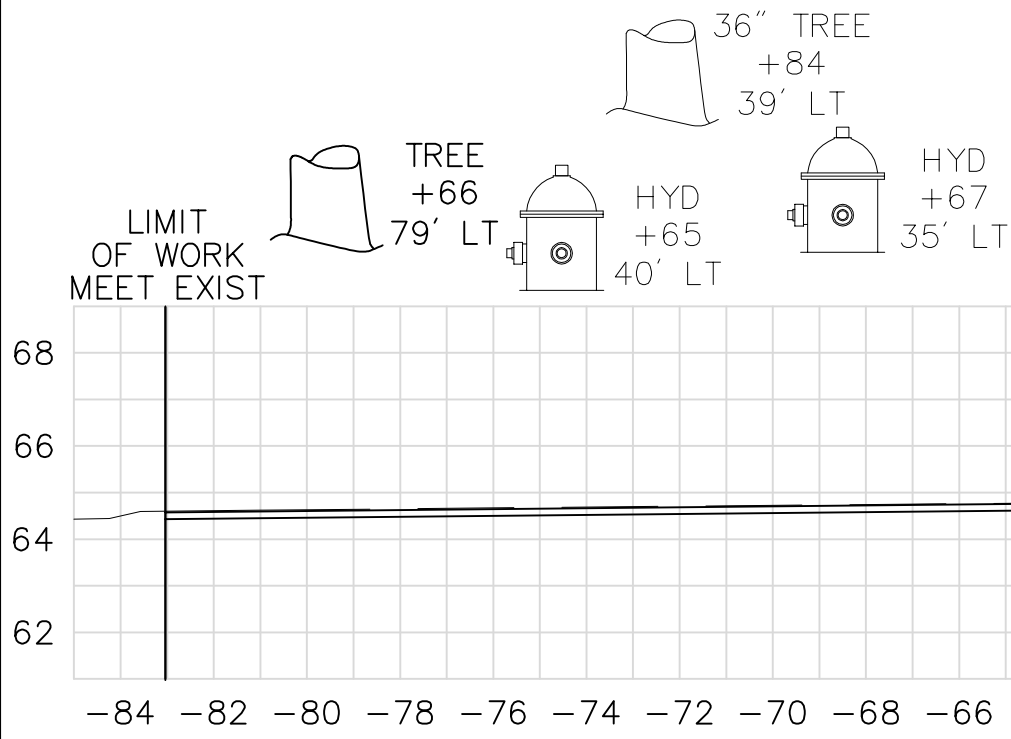
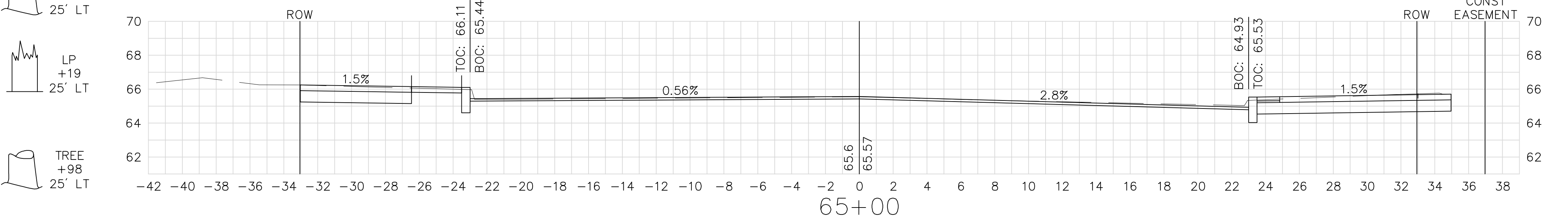
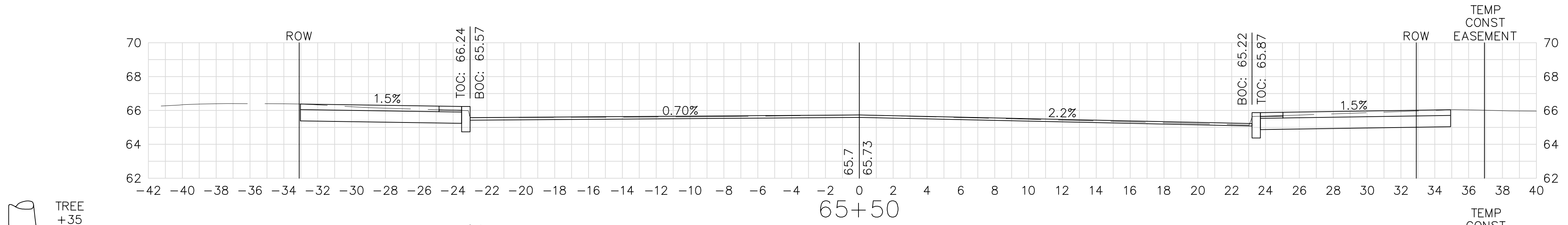
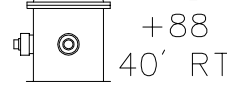


FOR GENERAL PLAN SEE SHEET NOS. 10 & 12

SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	111	145
PROJECT FILE NO. 605222			

CROSS SECTIONS
MAIN (ROUTE 116) STREET

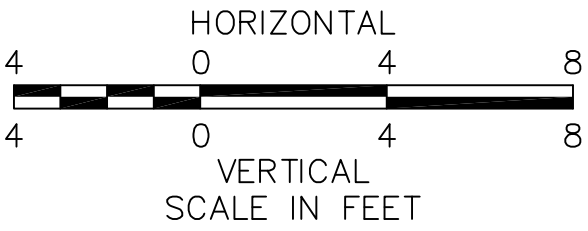
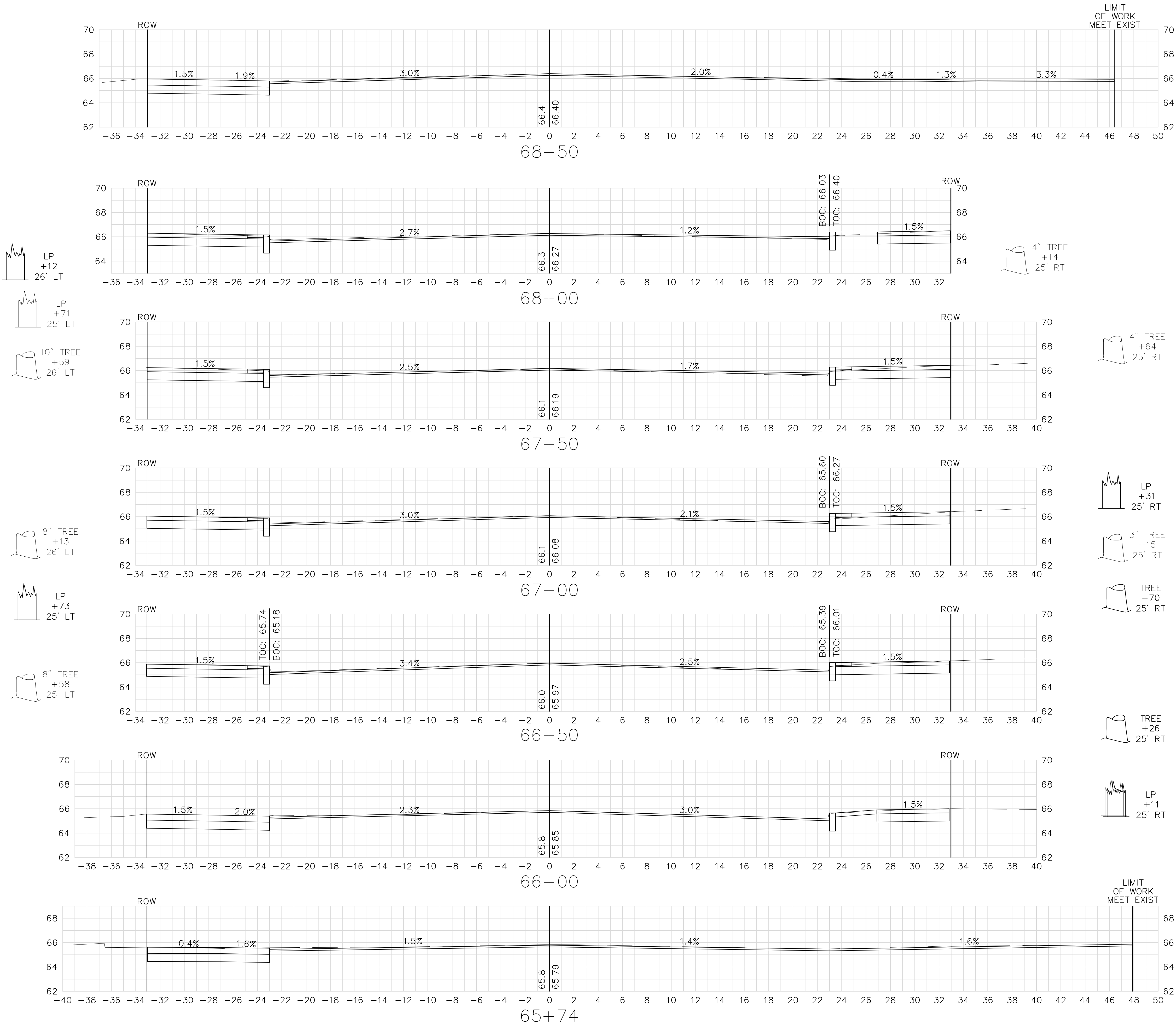


FOR GENERAL PLAN SEE SHEET NO. 12

SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	112	145
PROJECT FILE NO. 605222			

CROSS SECTIONS
MAIN (ROUTE 116) STREET

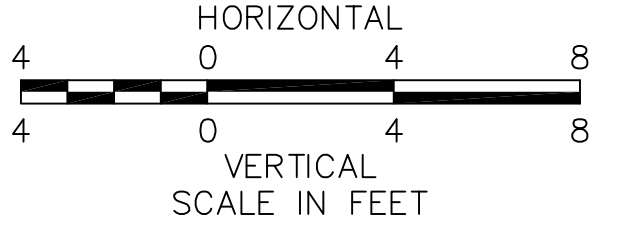
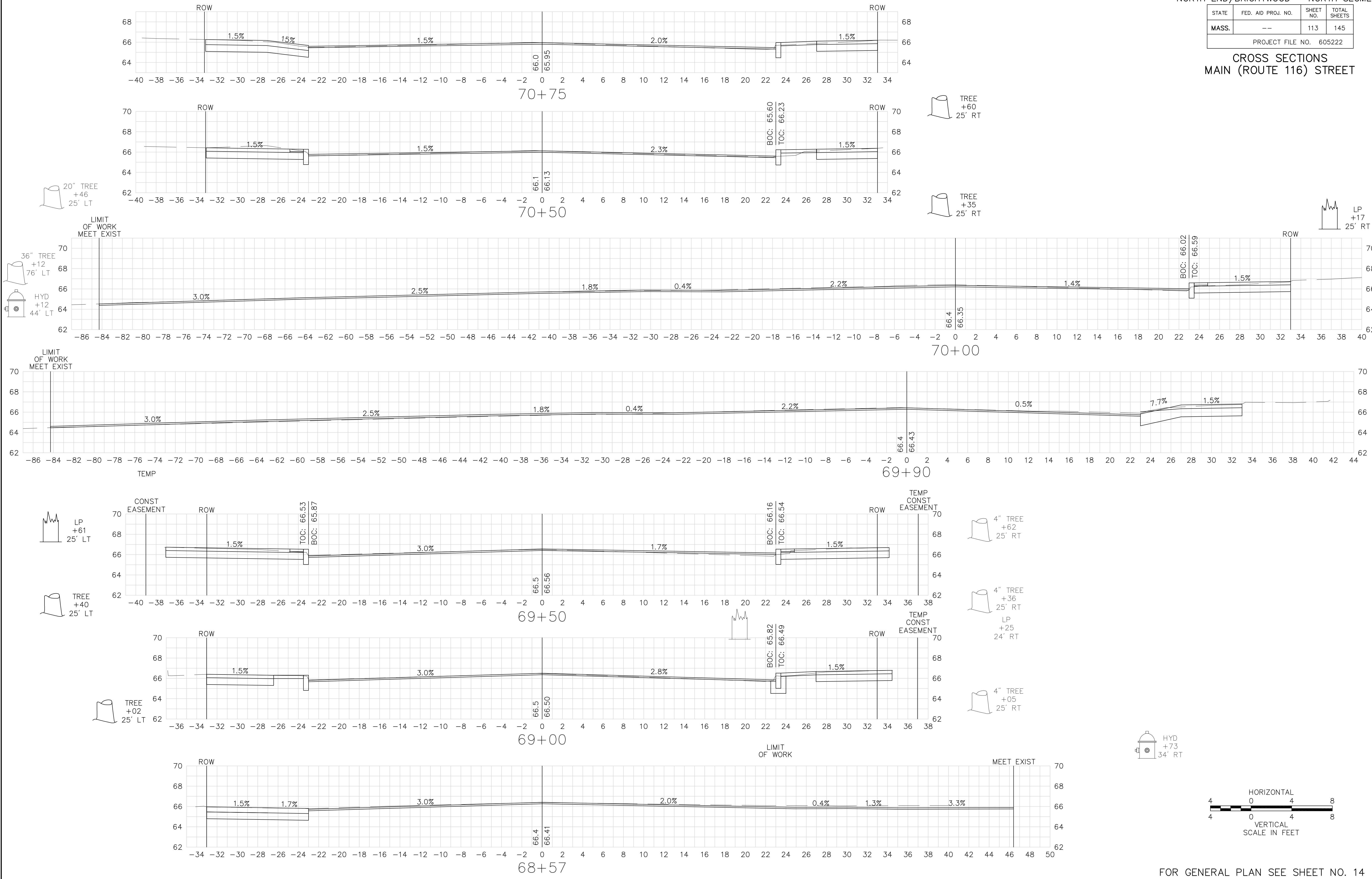


FOR GENERAL PLAN SEE SHEET NOS. 12 & 14

SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	113	145
PROJECT FILE NO. 605222			

CROSS SECTIONS
MAIN (ROUTE 116) STREET

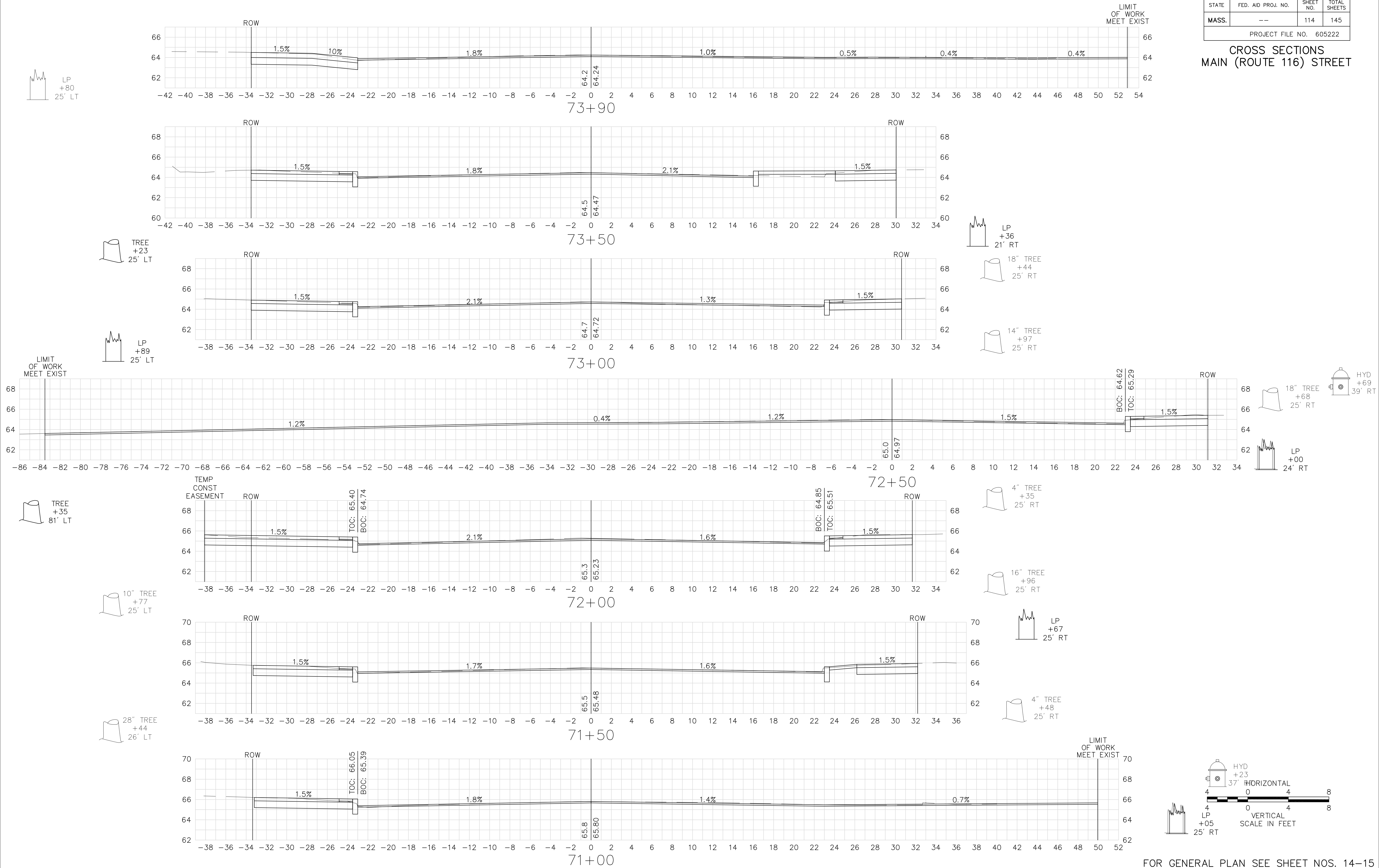


FOR GENERAL PLAN SEE SHEET NO. 14

SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	114	145
PROJECT FILE NO. 605222			

CROSS SECTIONS
MAIN (ROUTE 116) STREET

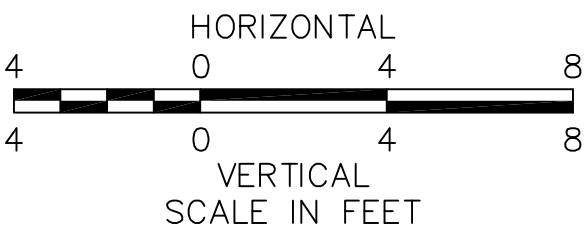
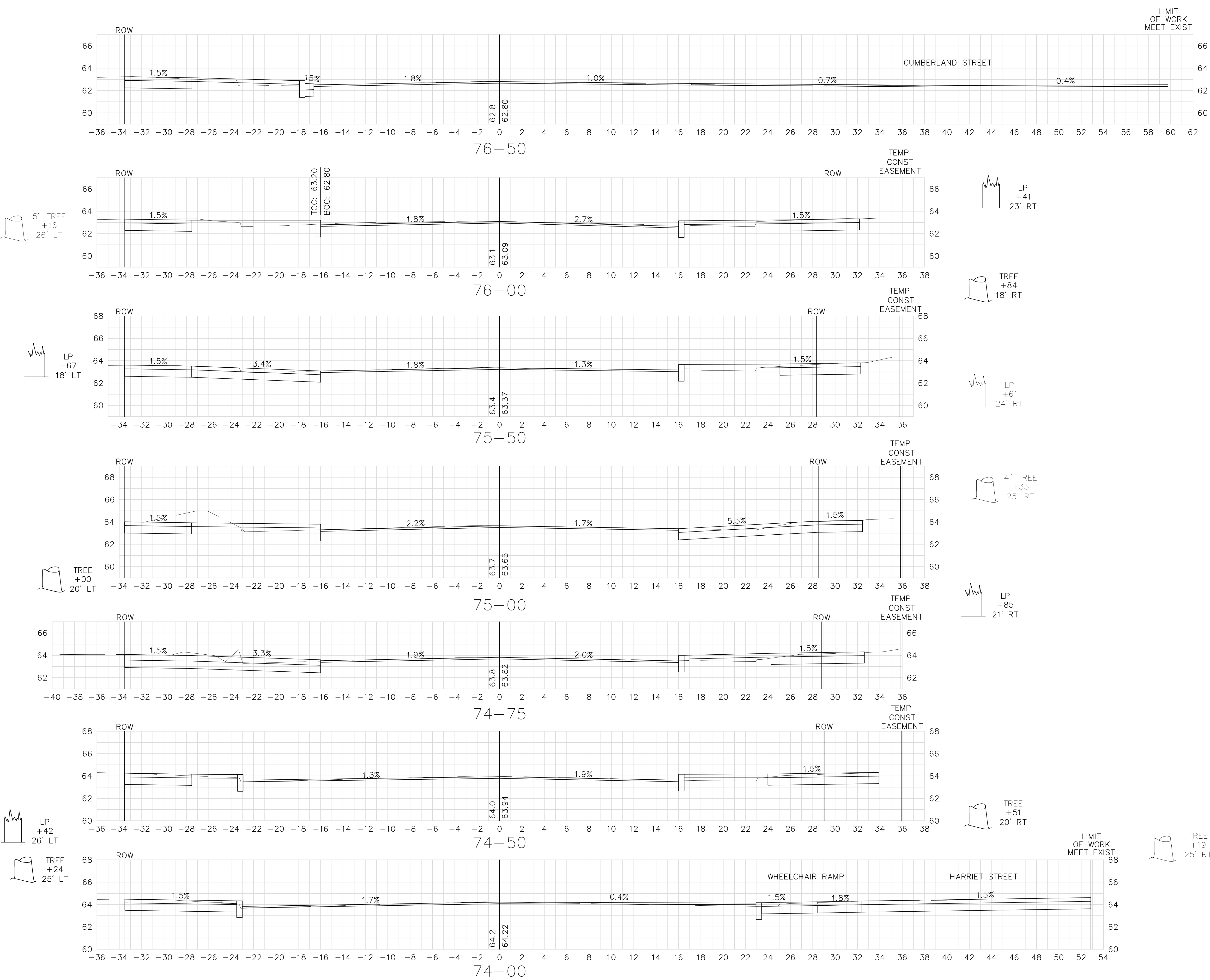
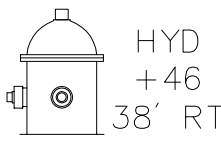


FOR GENERAL PLAN SEE SHEET NOS. 14-15

SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	115	145
PROJECT FILE NO. 605222			

CROSS SECTIONS
MAIN (ROUTE 116) STREET

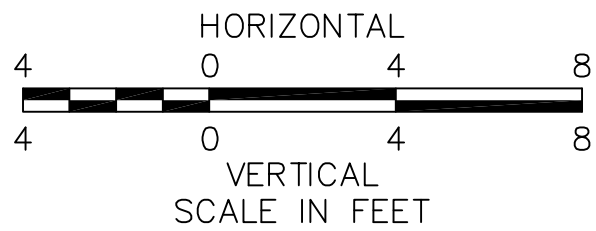
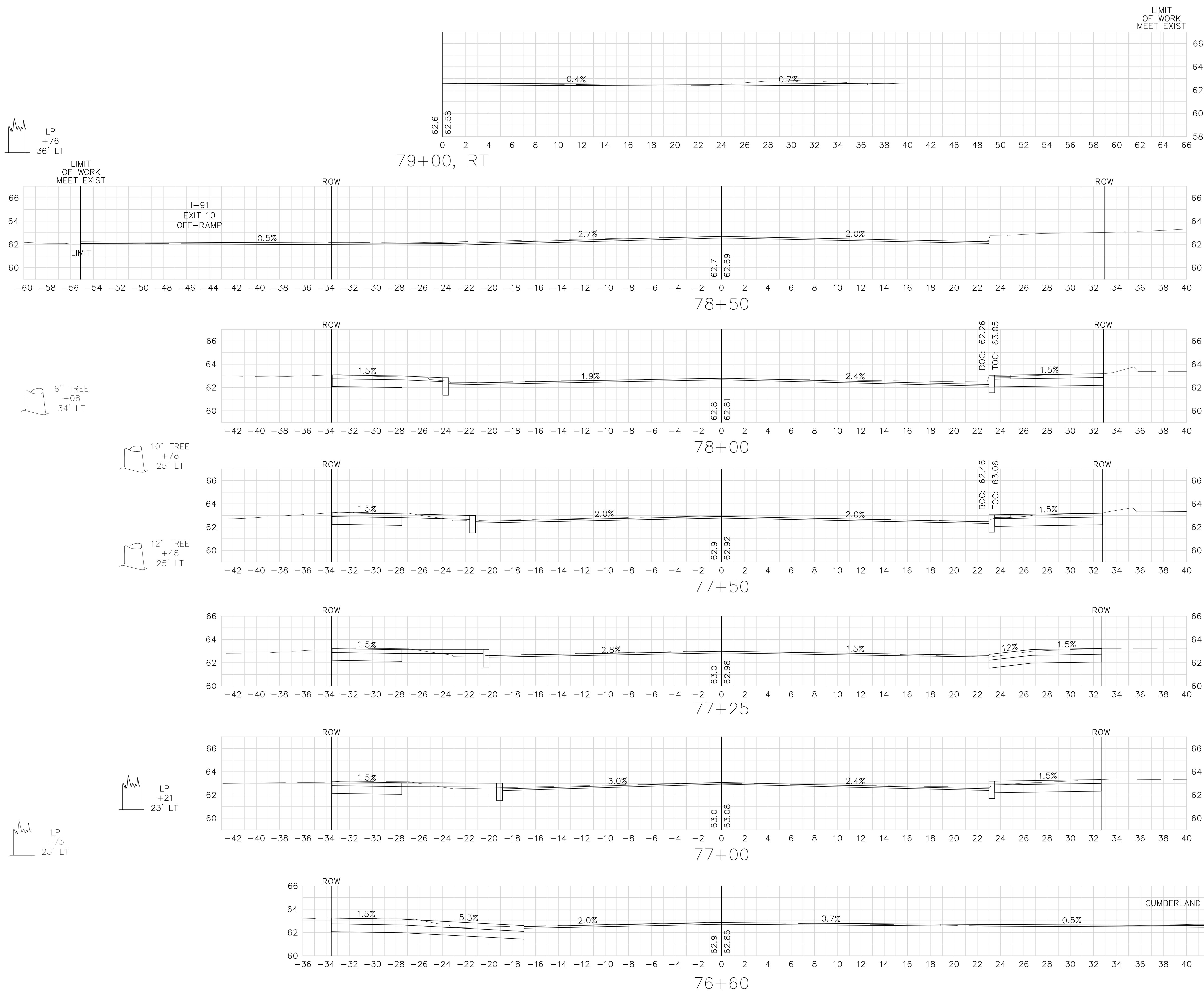


FOR GENERAL PLANS SEE SHEET NO. 15

SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	116	145
PROJECT FILE NO. 605222			

CROSS SECTIONS
MAIN (ROUTE 116) STREET

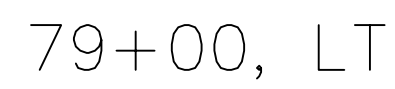
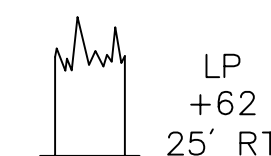
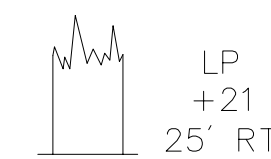
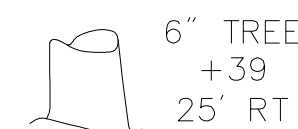
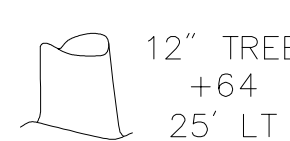
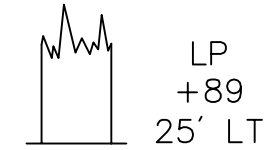
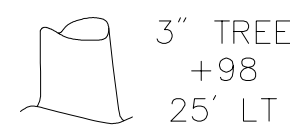
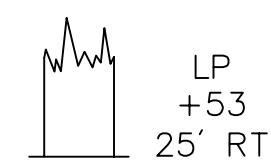
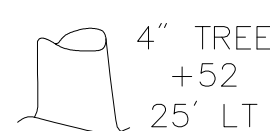
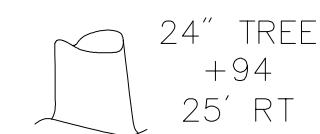
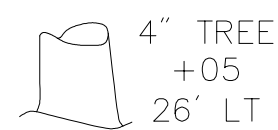


FOR GENERAL PLAN SEE SHEET NOS. 15-16

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	117	145
PROJECT FILE NO. 605222			

30" TREE
+58
27' LT

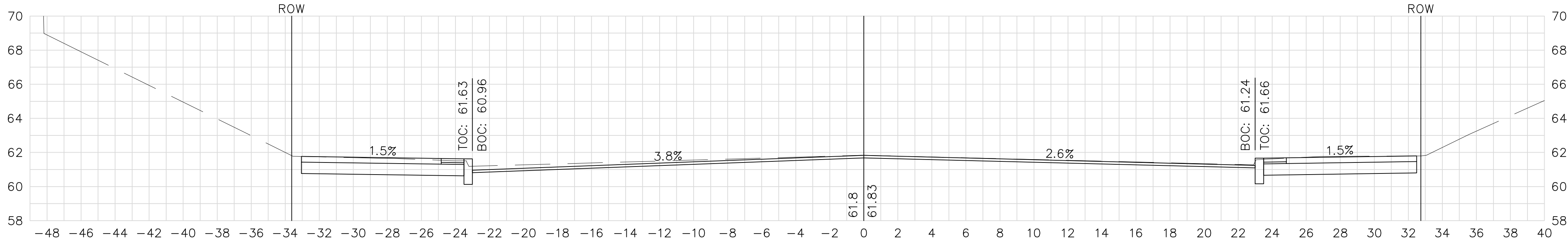
LP
+45
25' LT



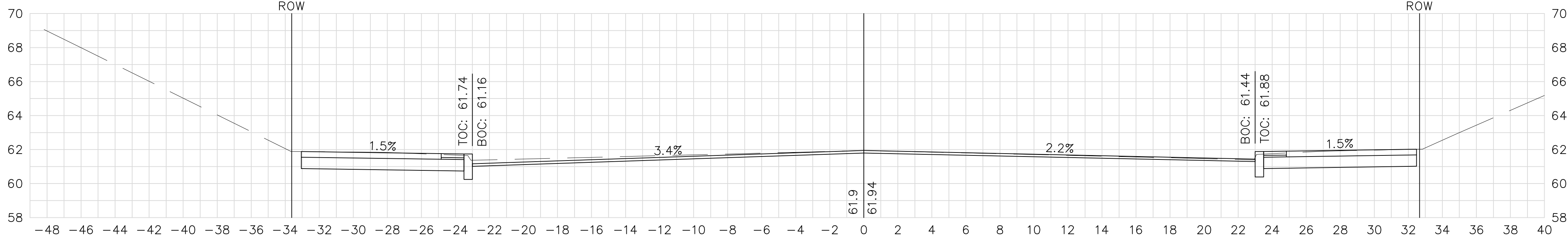
SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	118	145
PROJECT FILE NO. 605222			

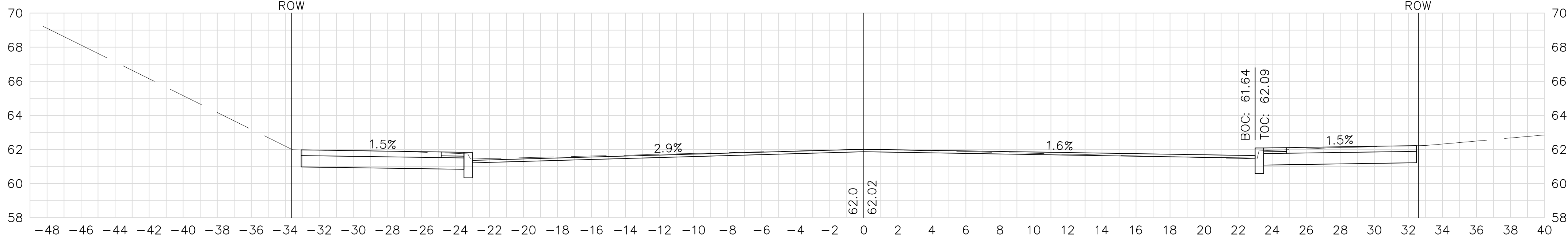
CROSS SECTIONS
MAIN (ROUTE 116) STREET



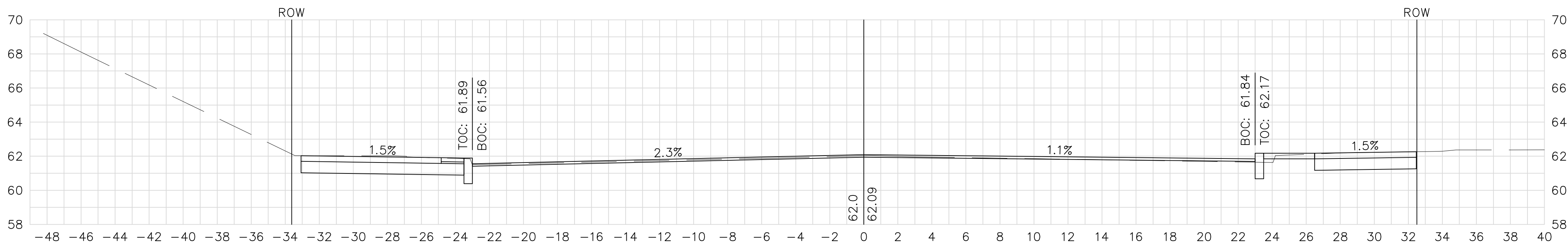
84+00



83+50



83+00



82+50

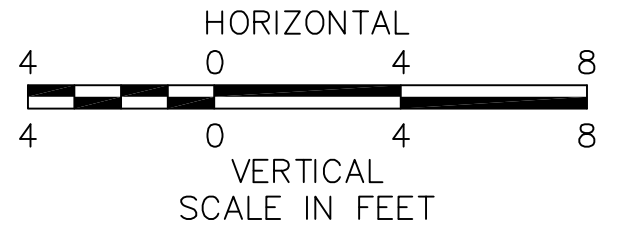


82+00

4" TREE
+75
25' RT

HYD
+59
54' RT

3" TREE
+10
25' LT

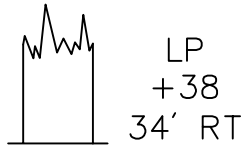


FOR GENERAL PLAN SEE SHEET NOS. 16-17

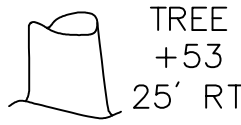
SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	119	145
PROJECT FILE NO. 605222			

CROSS SECTIONS
MAIN (ROUTE 116) STREET

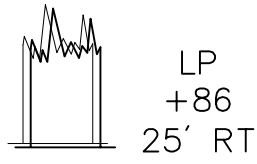


LP
+38
34' RT

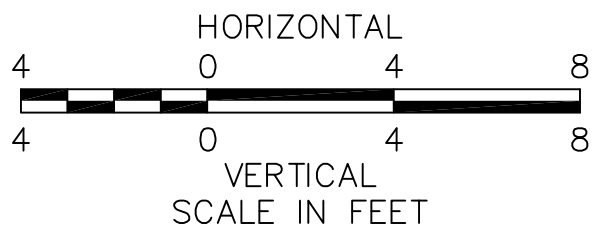


TREE
+53
25' RT

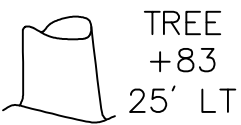
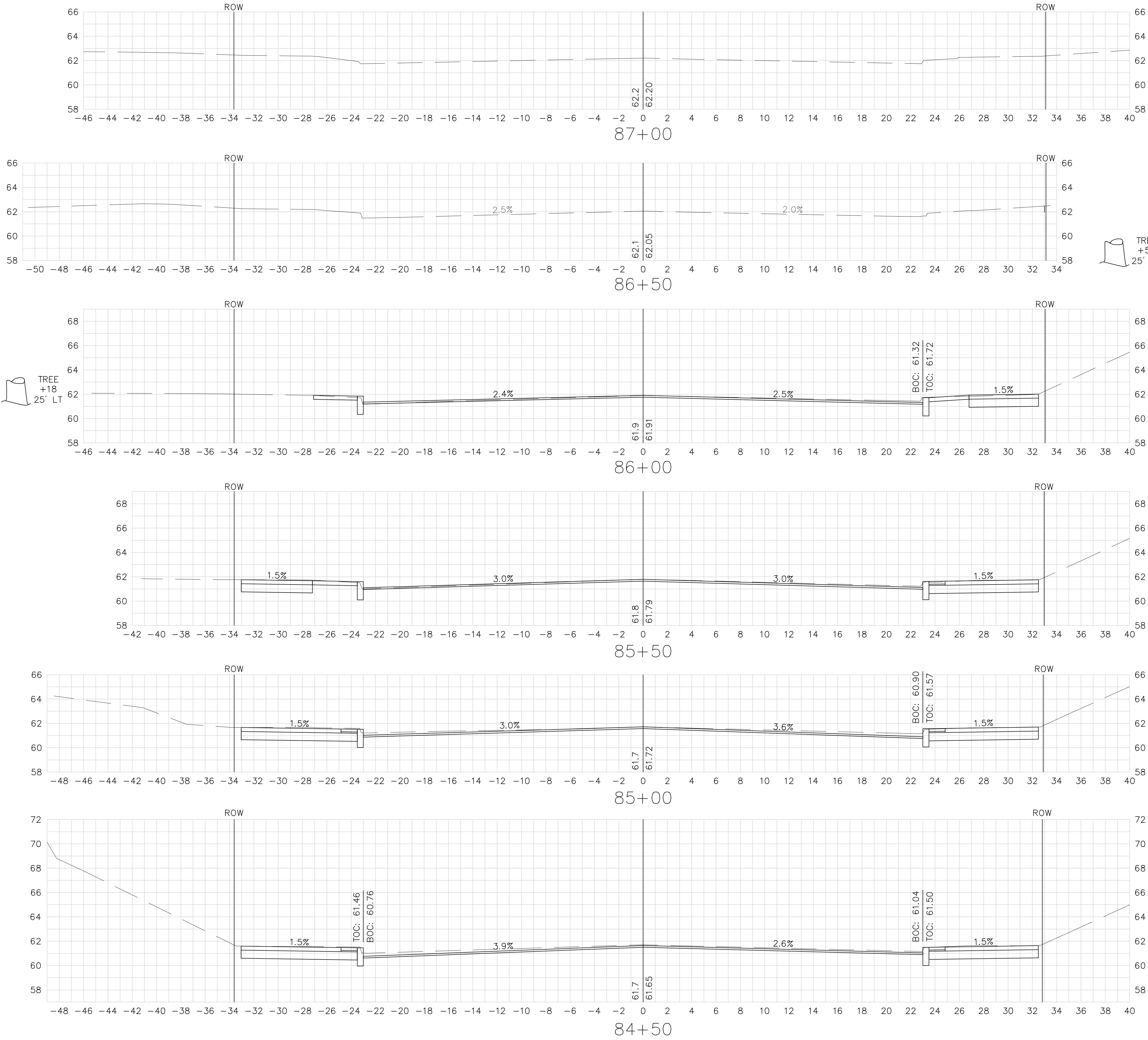
NOTE: STATION 86+50 TO STATION 89+00
CROSS SECTIONS SHALL BE PROVIDED
AFTER INTERSECTION DESIGN HAS BEEN APPROVED



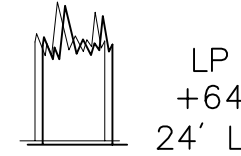
LP
+86
25' RT



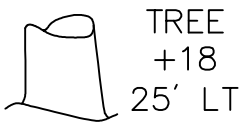
FOR GENERAL PLAN SEE SHEET NO. 17



TREE
+83
25' LT



LP
+64
24' LT

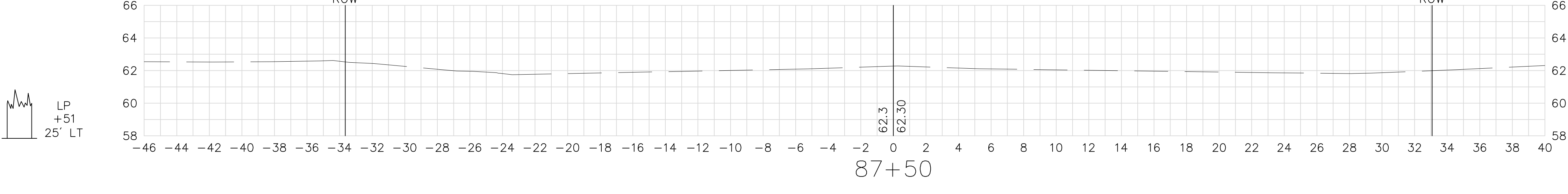
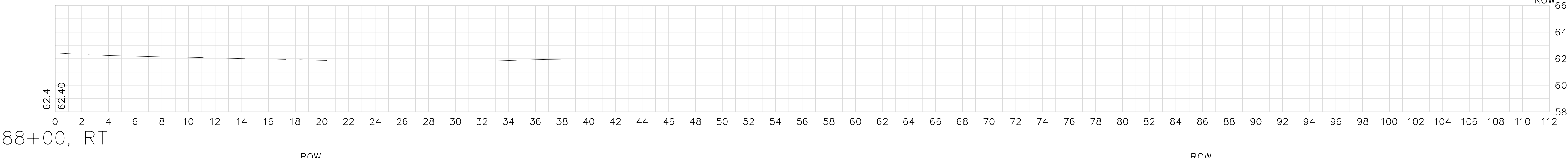
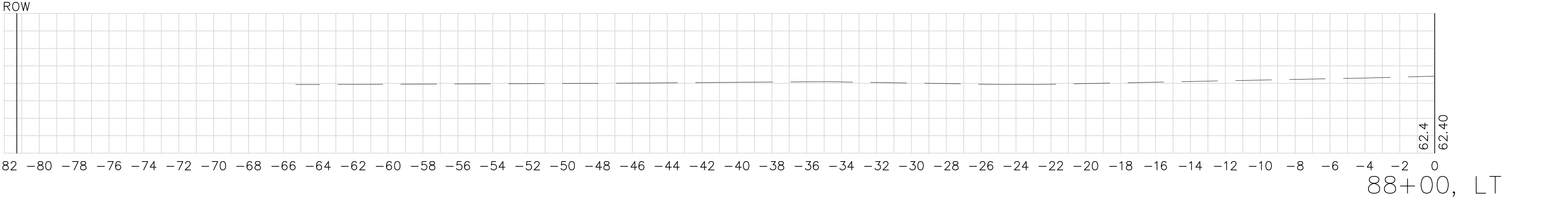
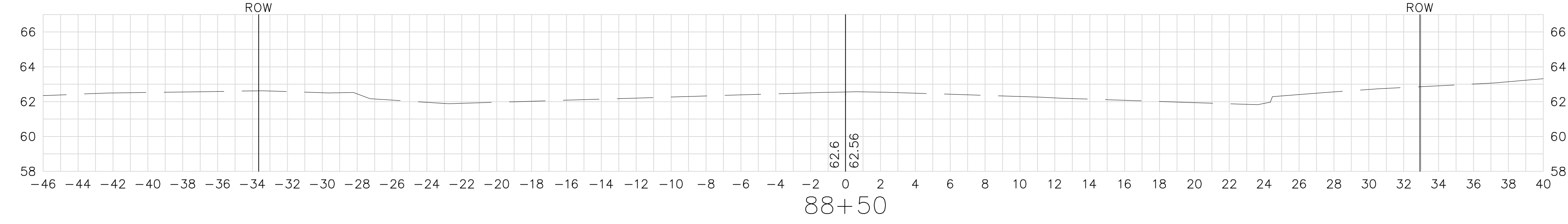
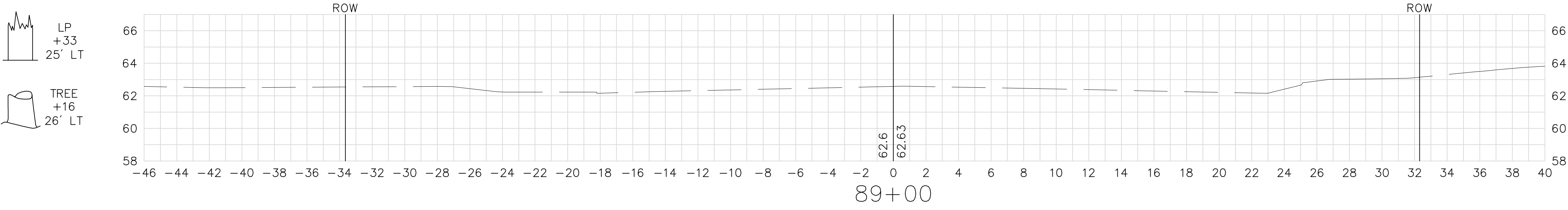
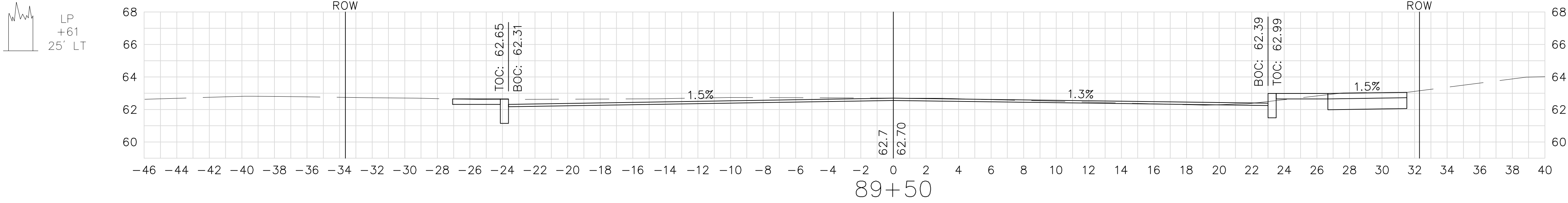
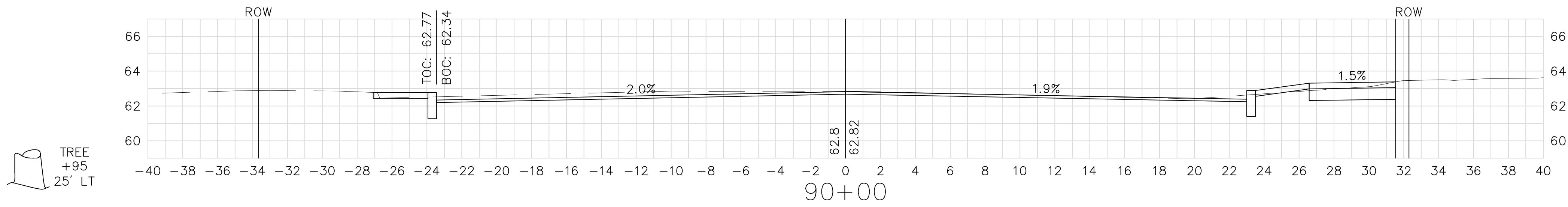


TREE
+18
25' LT

SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	120	145
PROJECT FILE NO. 605222			

CROSS SECTIONS
MAIN (ROUTE 116) STREET



TREE
+45
25' RT

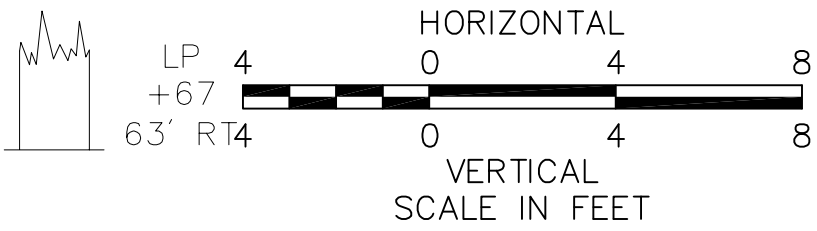
LP
+02
25' RT

TREE
+42
25' RT

38" TREE
+19
24' RT

LP
+89
26' RT

NOTE: STATION 86+50 TO STATION 89+00
CROSS SECTIONS SHALL BE PROVIDED
AFTER INTERSECTION DESIGN HAS BEEN APPROVED



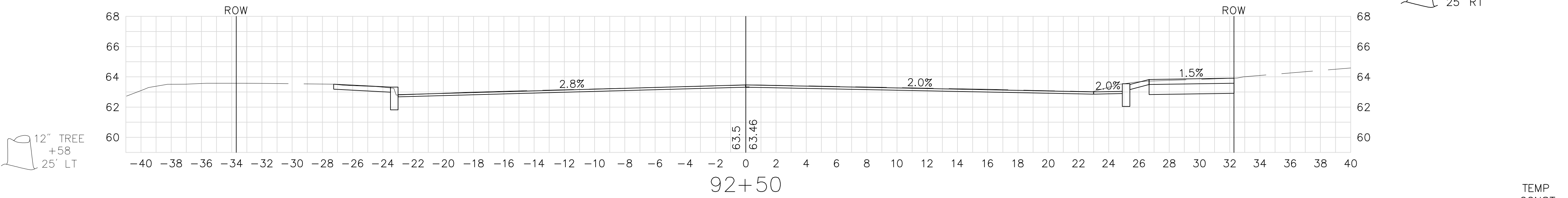
FOR GENERAL PLAN SEE SHEET NOS. 17-18

SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

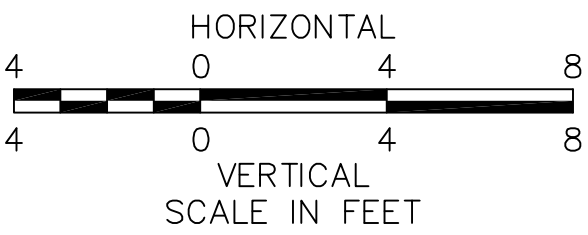
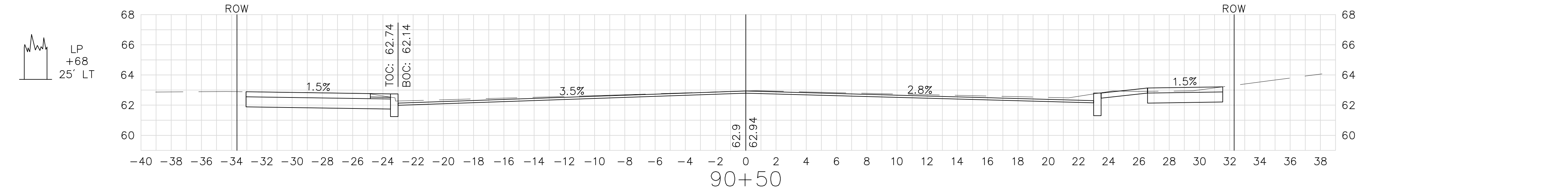
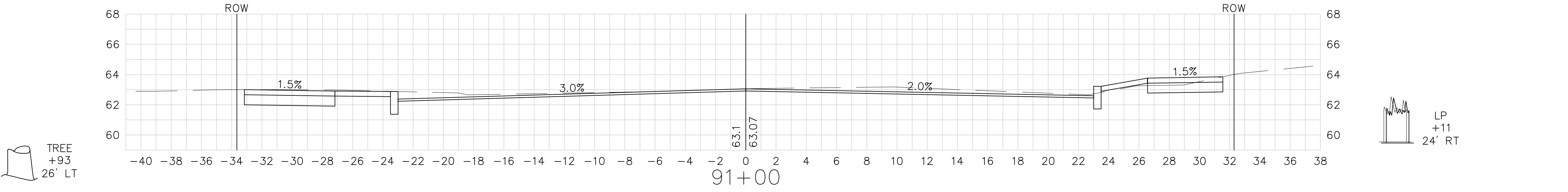
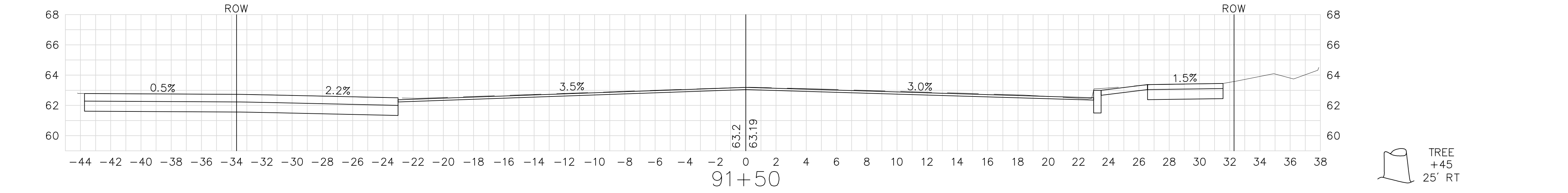
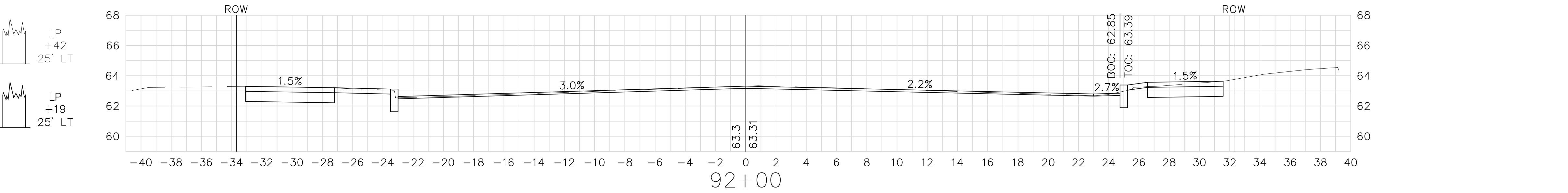
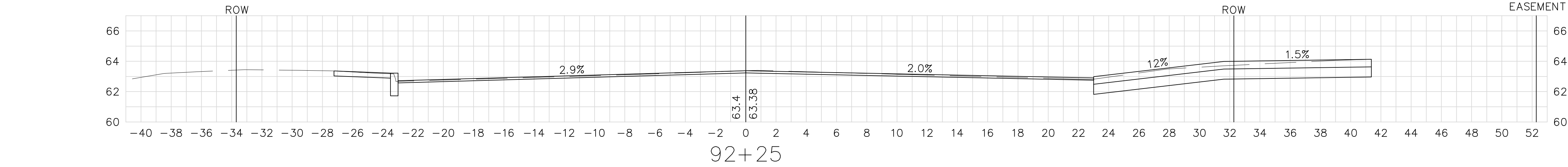
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	121	145
PROJECT FILE NO. 605222			

CROSS SECTIONS
MAIN (ROUTE 116) STREET

TREE
+74
25' RT



TEMP
CONST
EASEMENT



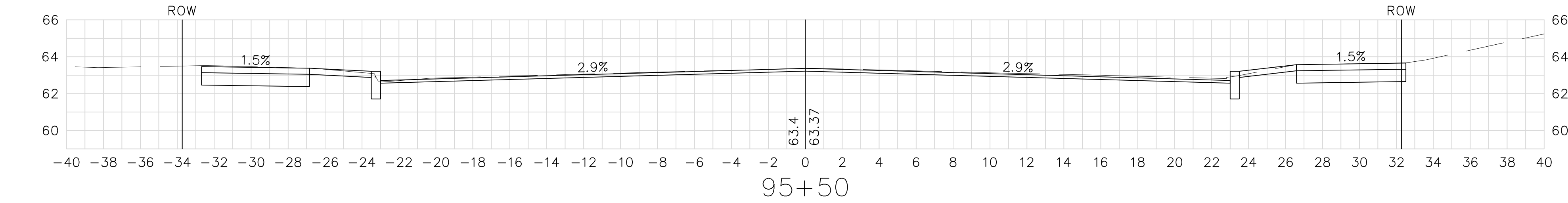
FOR GENERAL PLAN SEE SHEET NO. 18

SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	122	145
PROJECT FILE NO. 605222			

CROSS SECTIONS
MAIN (ROUTE 116) STREET

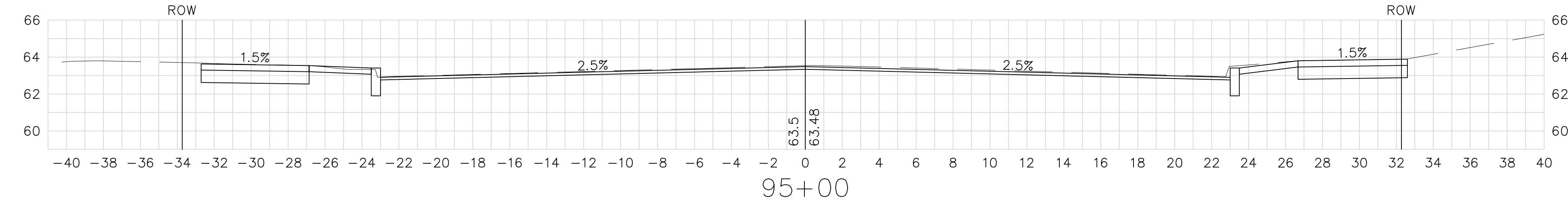
TREE
+85
25' LT



LP
+19
25' LT

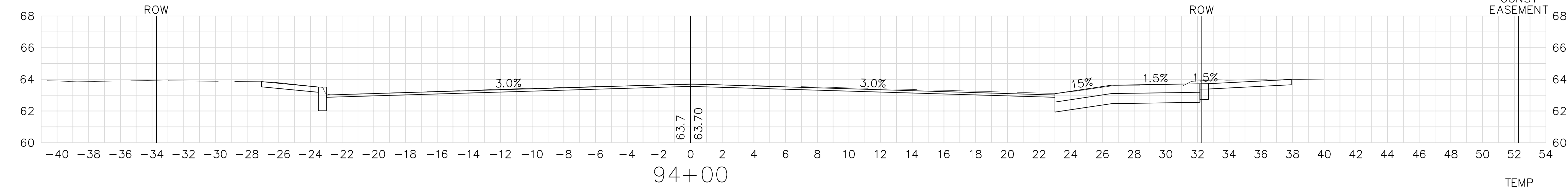
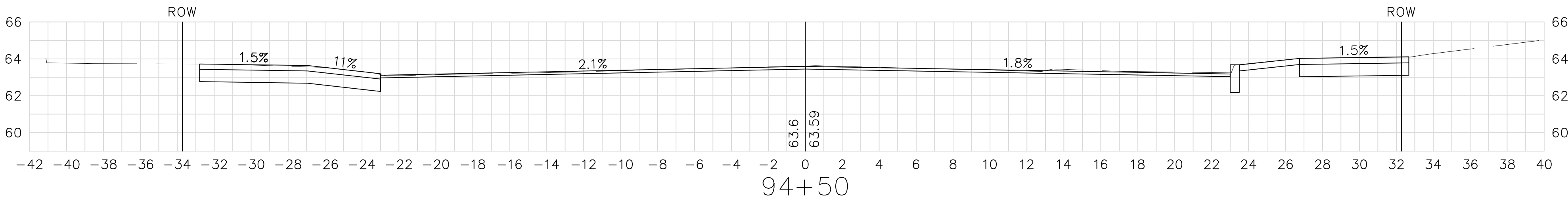
LP
+96
25' LT

TREE
+85
26' LT

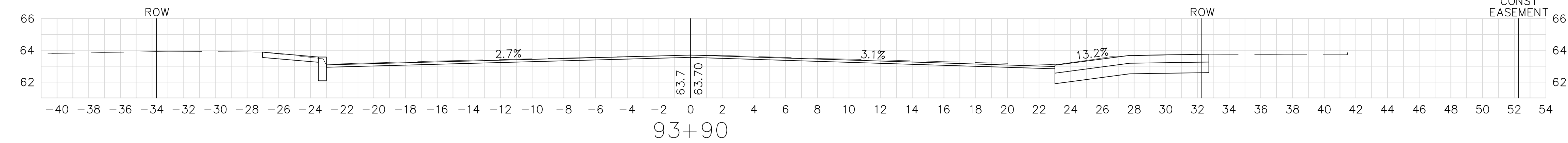


TREE
+23
25' RT

LP
+70
25' RT



TREE
+31
26' RT

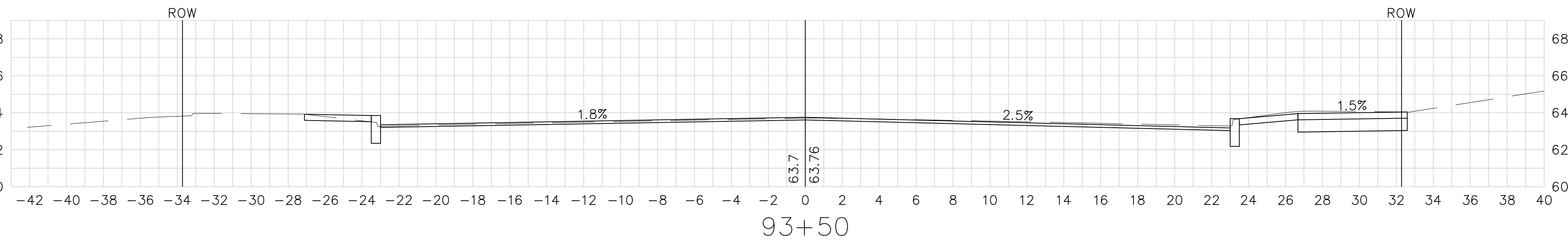


LP
+69
25' LT

24" TREE
+40
26' LT

3" TREE
+10
25' LT

3" TREE
+85
25' LT

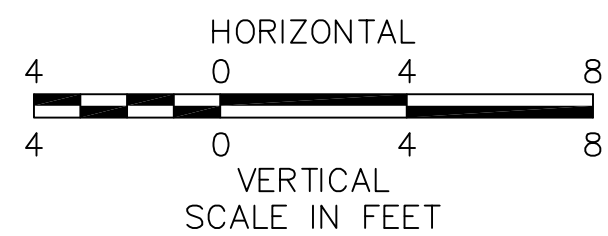
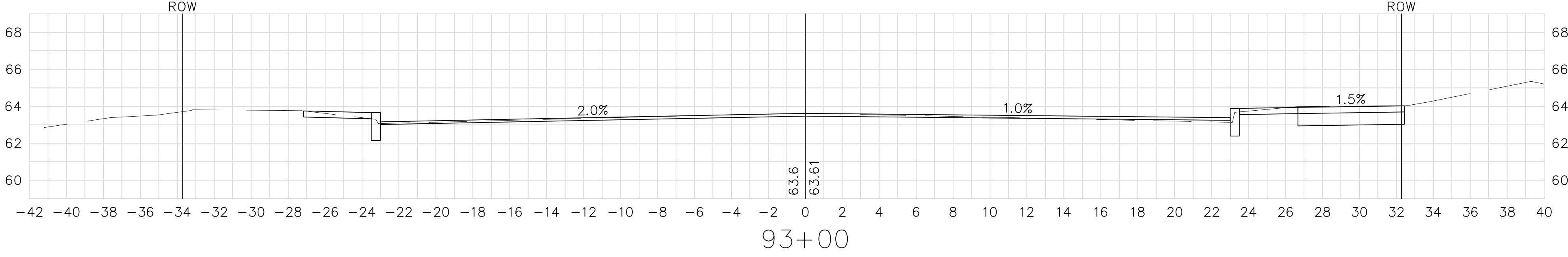


LP
+63
25' RT

36" TREE
+35
25' RT

3" TREE
+10
25' RT

LP
+95
25' RT



FOR GENERAL PLAN SEE SHEET NO. 18-19

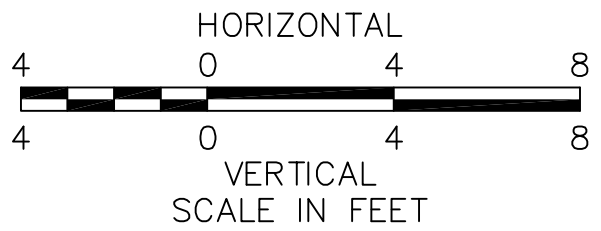
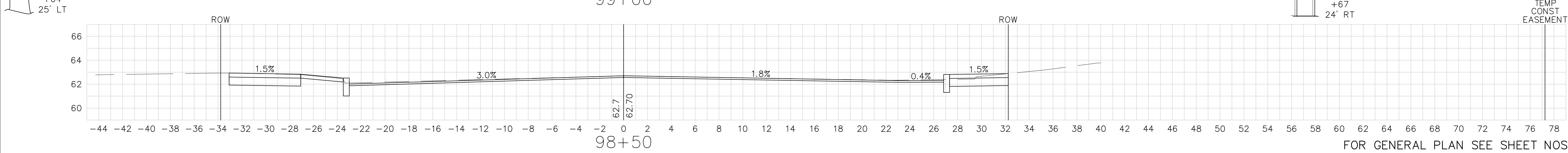
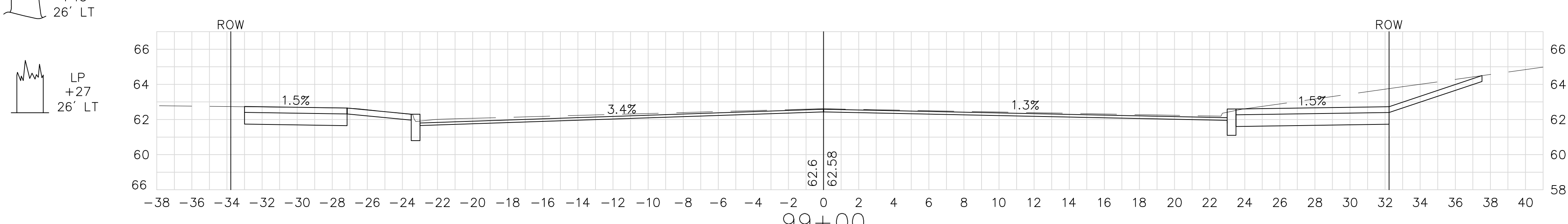
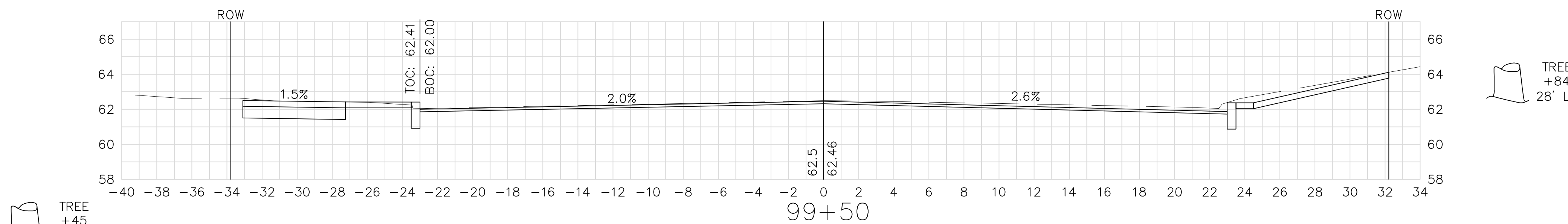
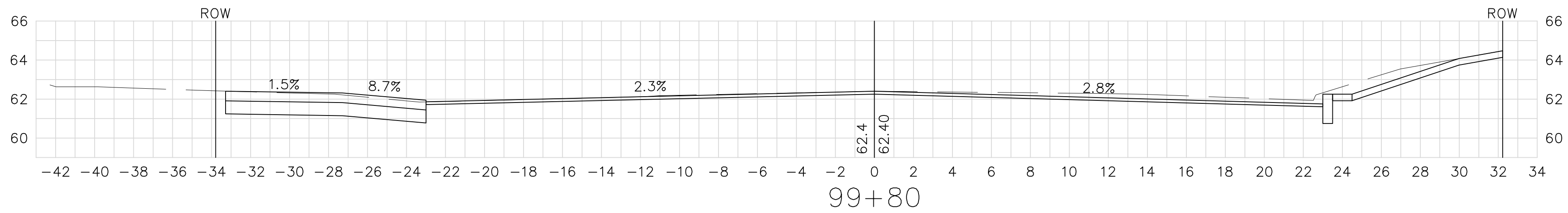
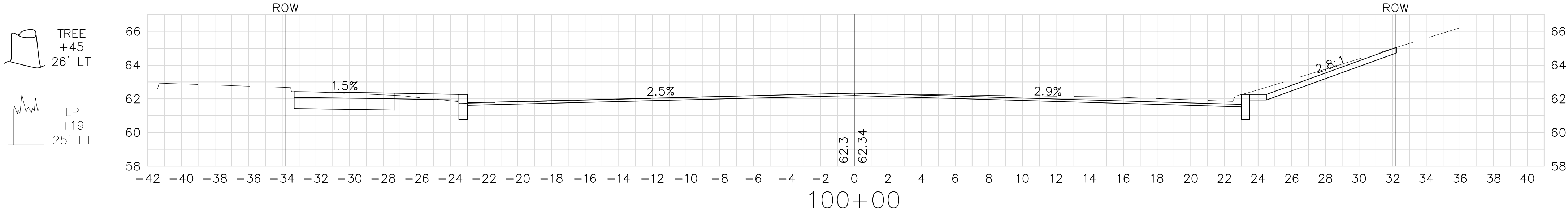
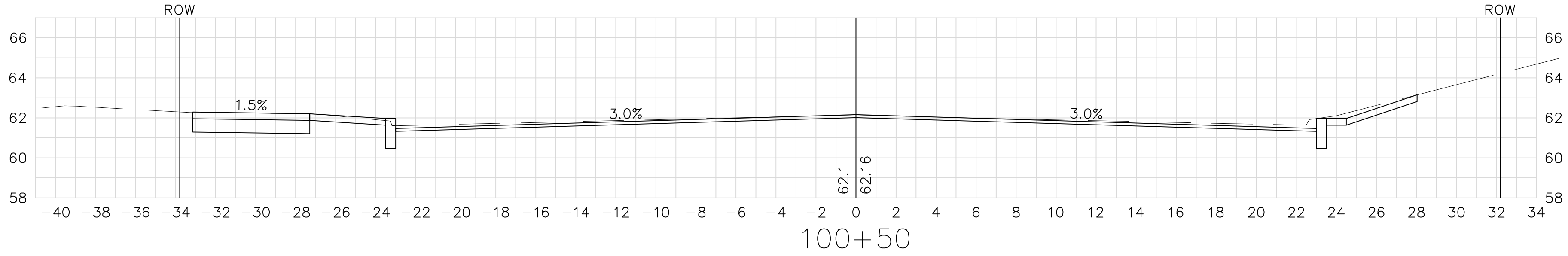
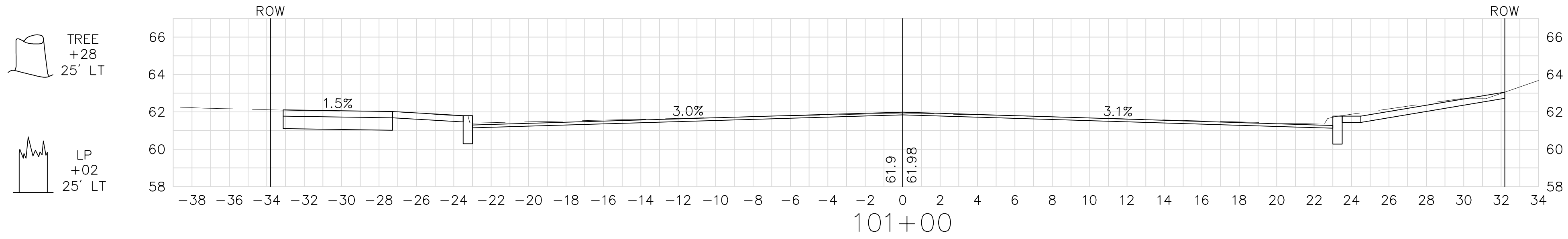
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	123	145
PROJECT FILE NO. 605222			

FOR GENERAL PLAN SEE SHEET NO. 19

SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	124	145
PROJECT FILE NO. 605222			

CROSS SECTIONS
MAIN (ROUTE 116) STREET

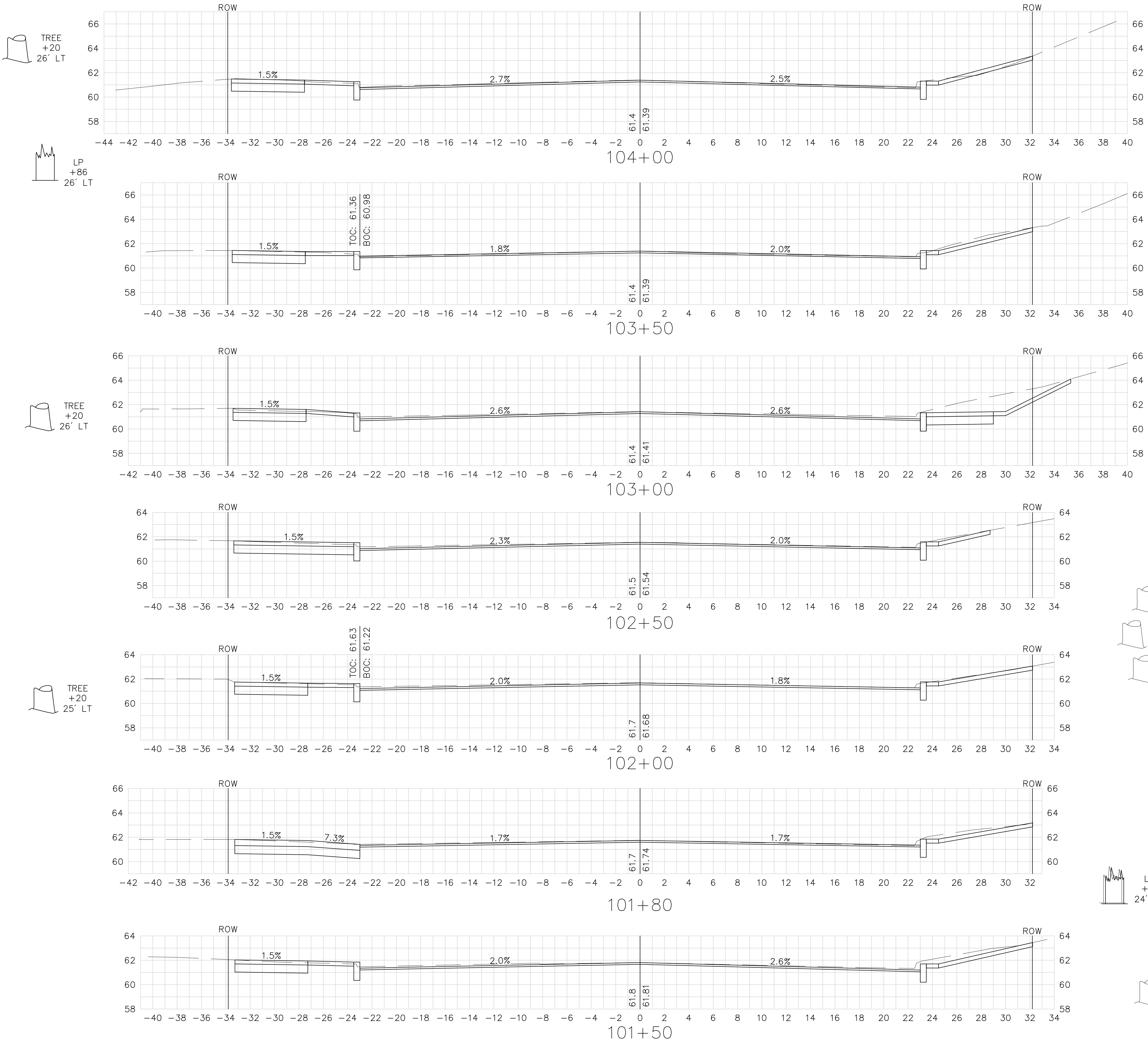


FOR GENERAL PLAN SEE SHEET NOS. 19-20

SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	125	145
PROJECT FILE NO. 605222			

CROSS SECTIONS
MAIN (ROUTE 116) STREET



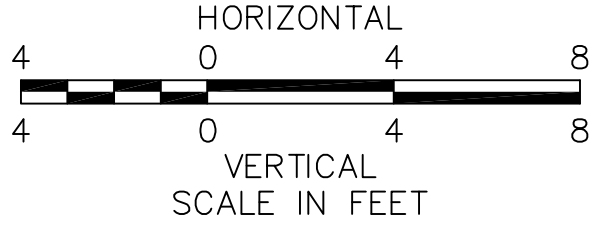
TREE
+76
27' LT

LP
+21
25' RT

TREE
+50
35' RT
16" TREE
+37
32' RT
16" TREE
+34
34' RT

LP
+71
24' RT

18" TREE
+57
29' RT



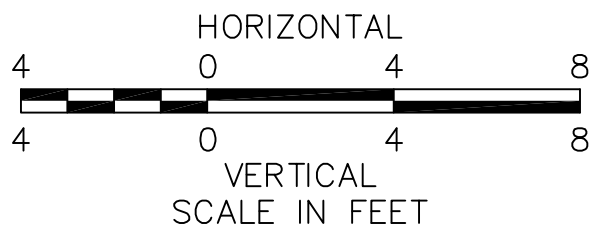
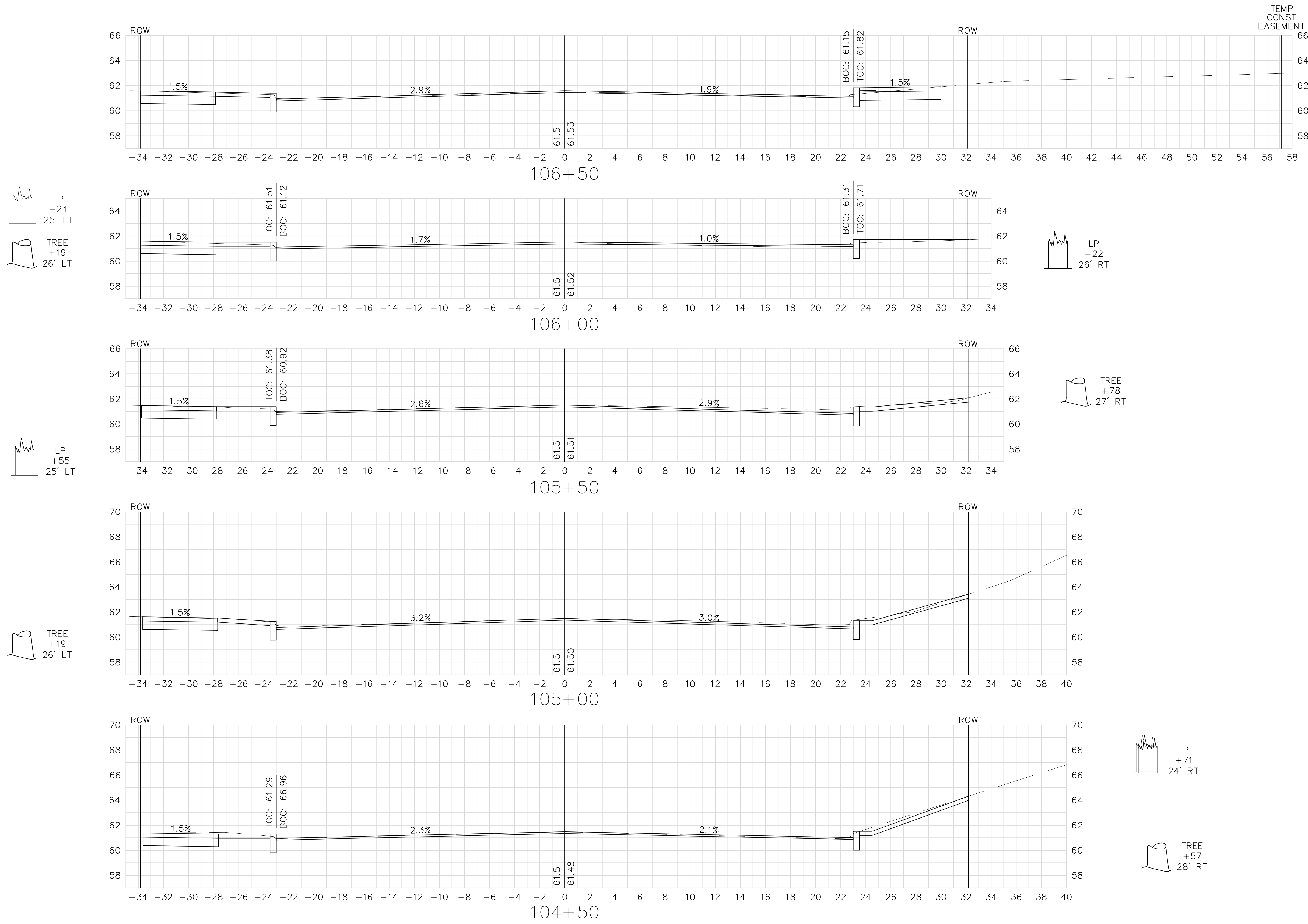
FOR GENERAL PLAN SEE SHEET NO. 20

SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	126	145

PROJECT FILE NO. 605222

CROSS SECTIONS
MAIN (ROUTE 116) STREET

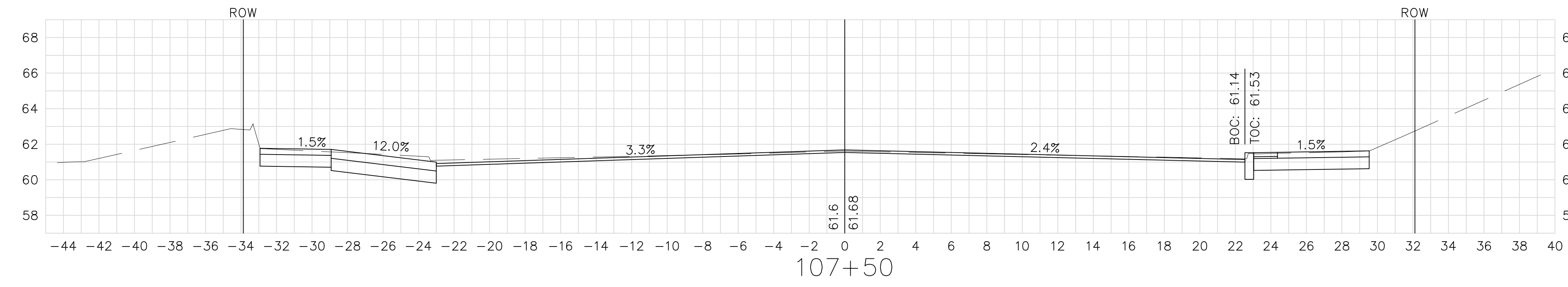
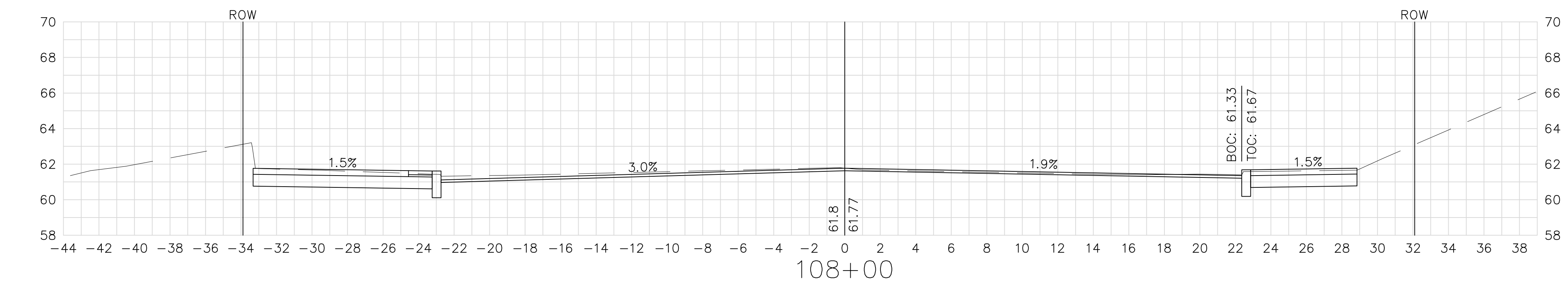


FOR GENERAL PLAN SEE SHEET NO. 21

SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

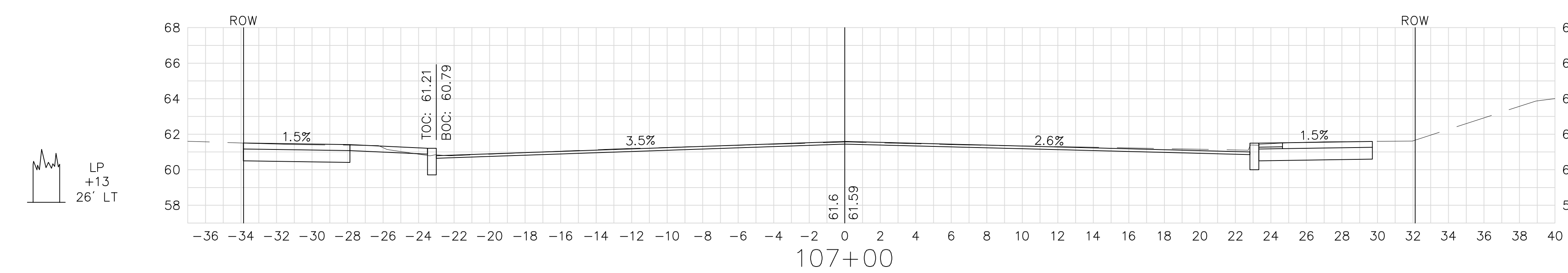
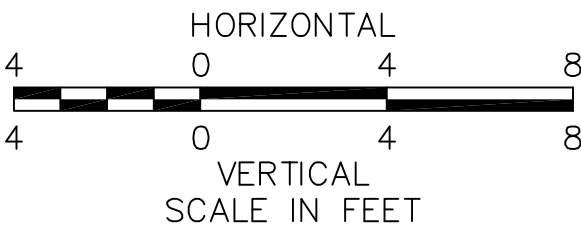
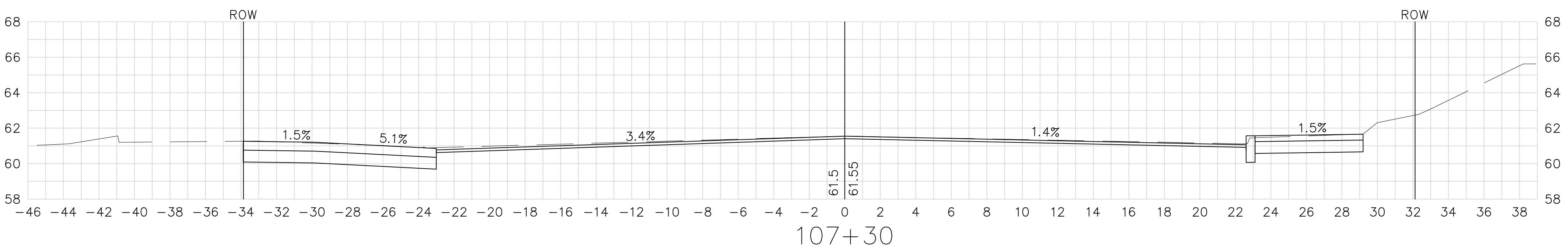
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	127	145
PROJECT FILE NO. 605222			

CROSS SECTIONS
MAIN (ROUTE 116) STREET

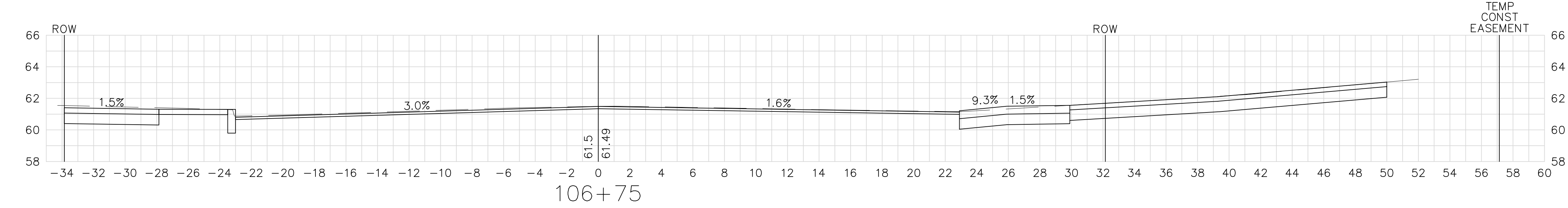


LP
+72
24' RT

TREE
+53
26' RT



LP
+13
26' LT



TEMP
CONST
EASEMENT

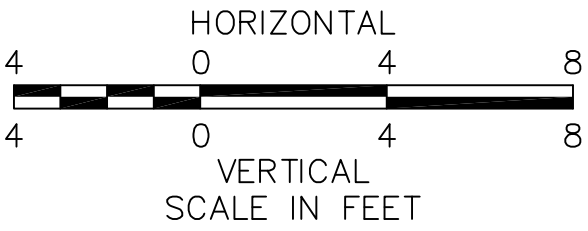
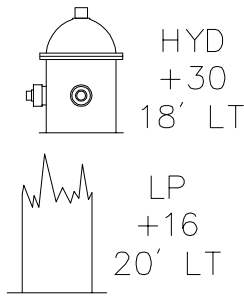
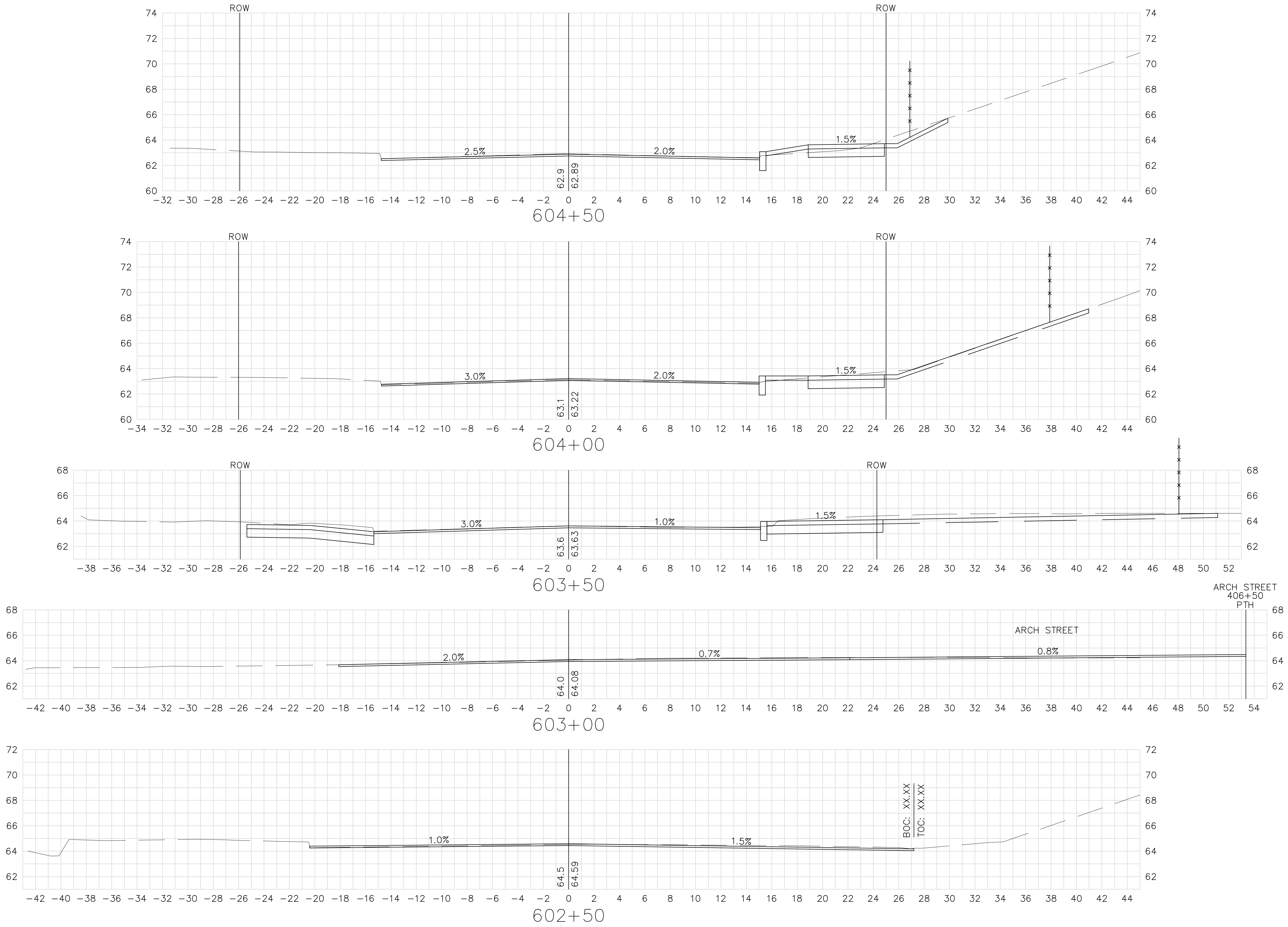
FOR GENERAL PLAN SEE SHEET NO. 21

SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	128	145

PROJECT FILE NO. 605222

CROSS SECTIONS
BIRNIE AVENUE

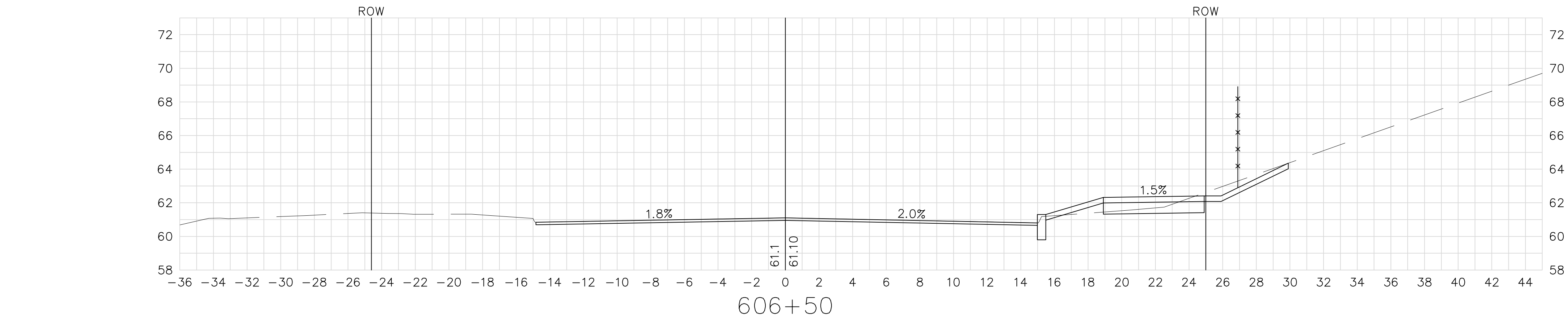


FOR GENERAL PLAN SEE SHEET NO. 22

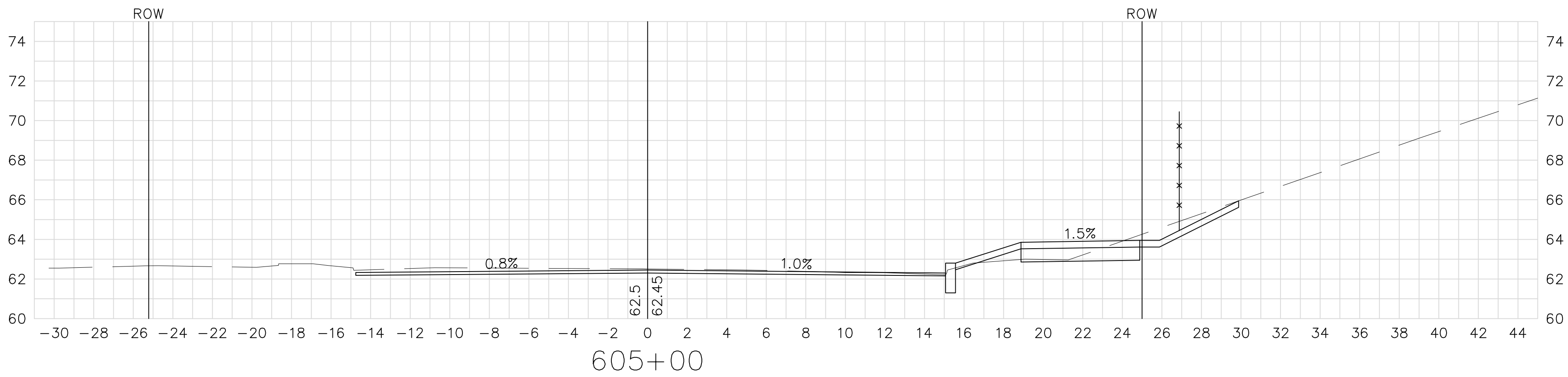
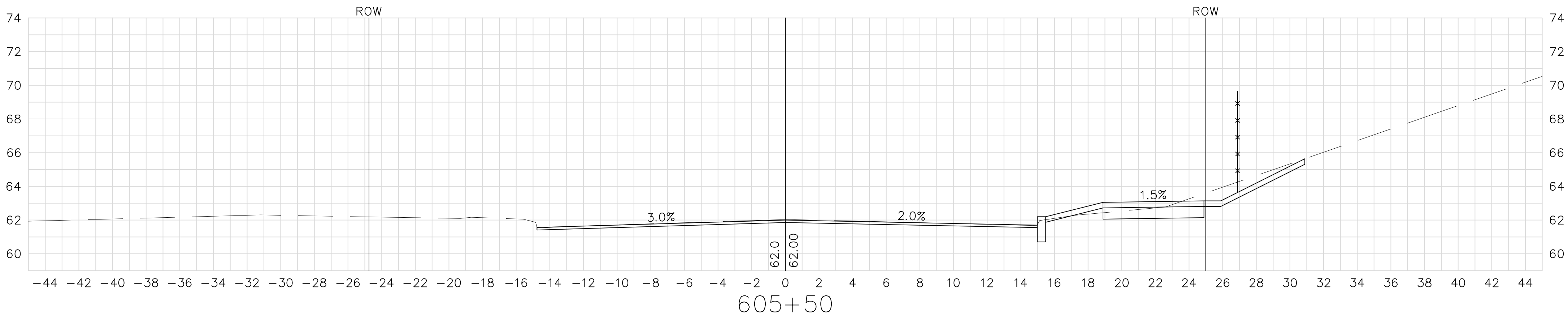
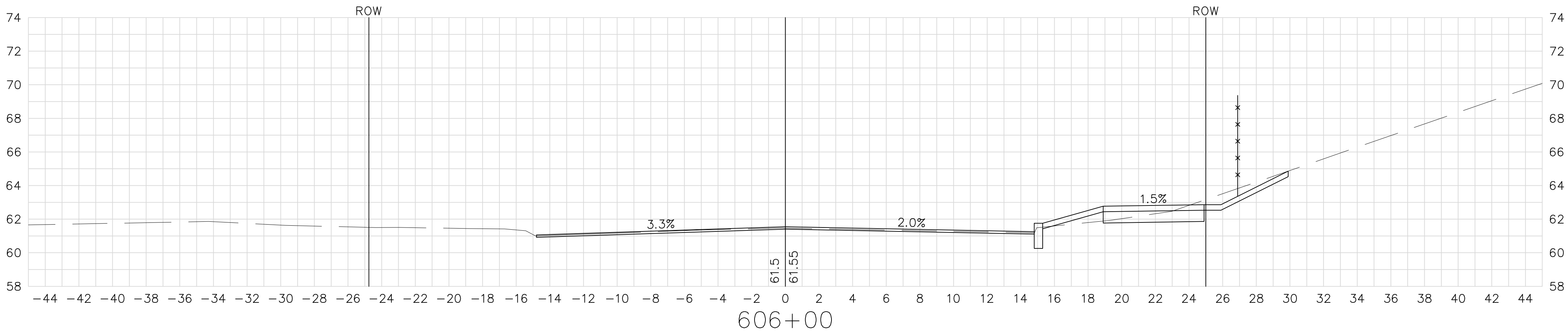
SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	129	145
PROJECT FILE NO. 605222			

CROSS SECTIONS
BIRNIE AVENUE

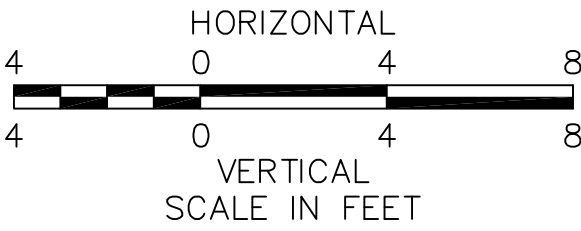


LP
+63
19' RT



LP
+13
18' RT

HYD
+04
19' RT



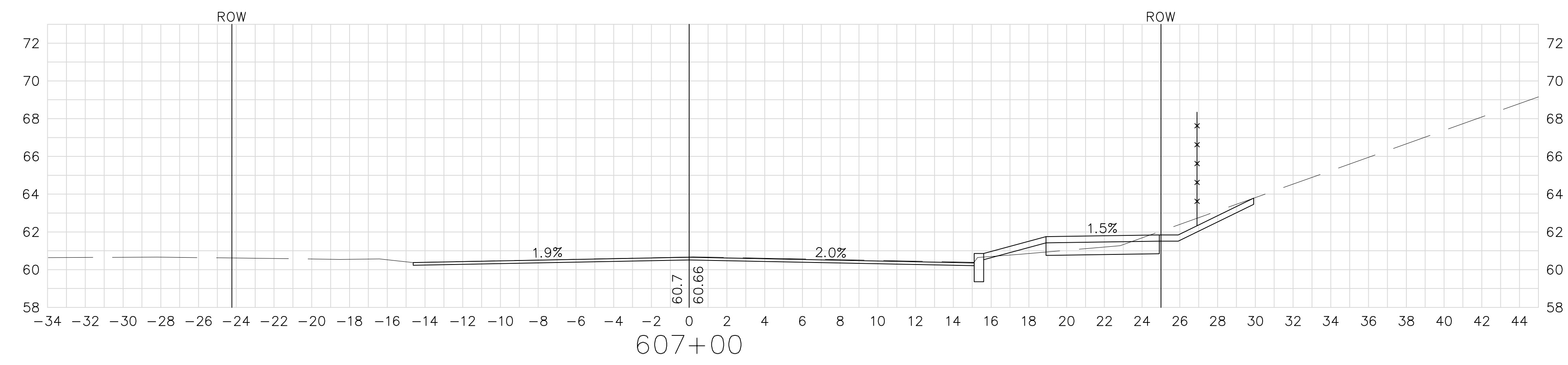
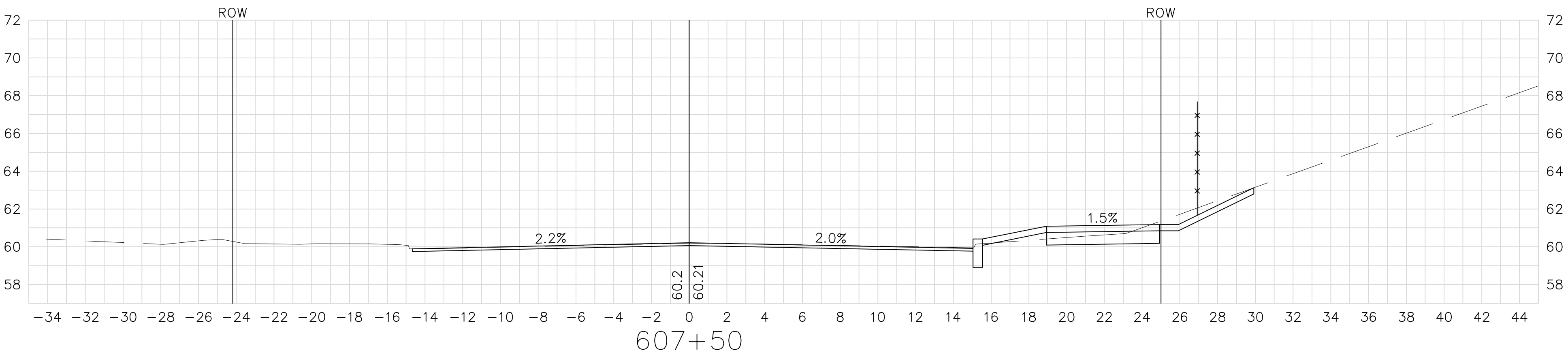
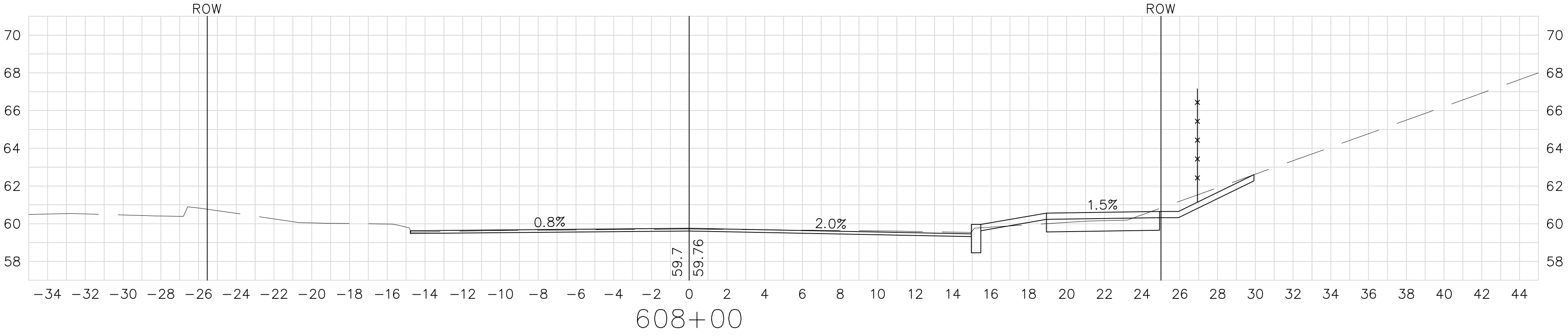
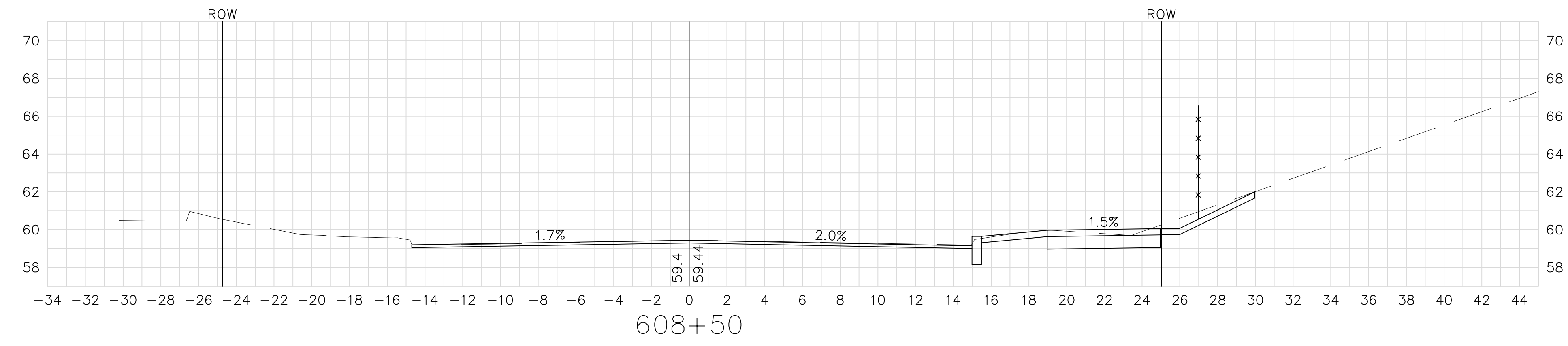
FOR GENERAL PLAN SEE SHEET NO. 22

SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	130	145

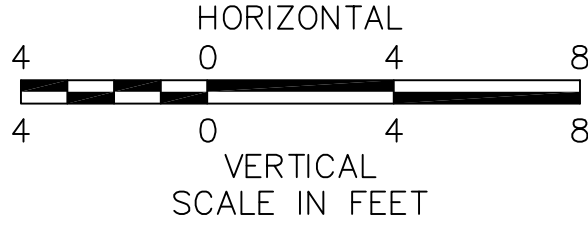
PROJECT FILE NO. 605222

CROSS SECTIONS
BIRNIE AVENUE



48" TREE
+16
28' LT

LP
+13
17' RT

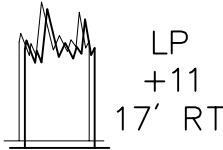
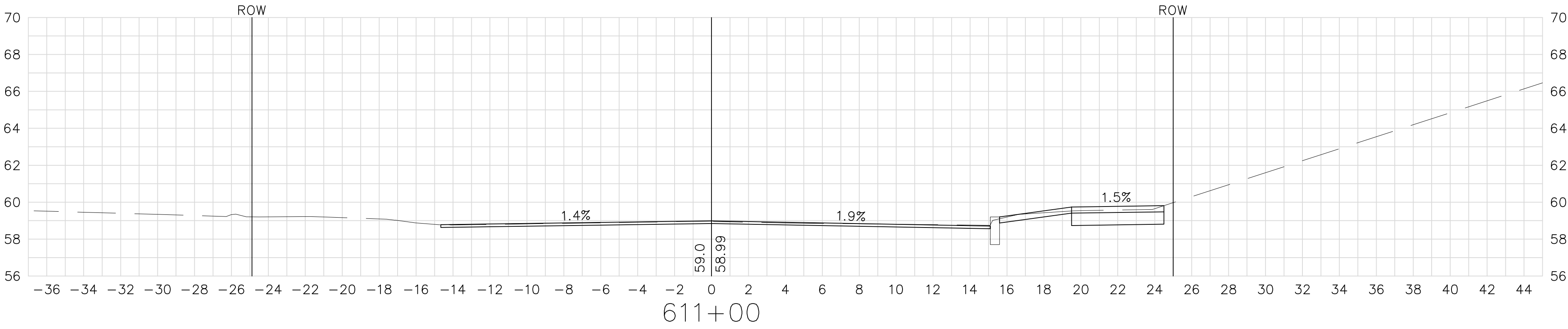


FOR GENERAL PLAN SEE SHEET NOS. 22-23

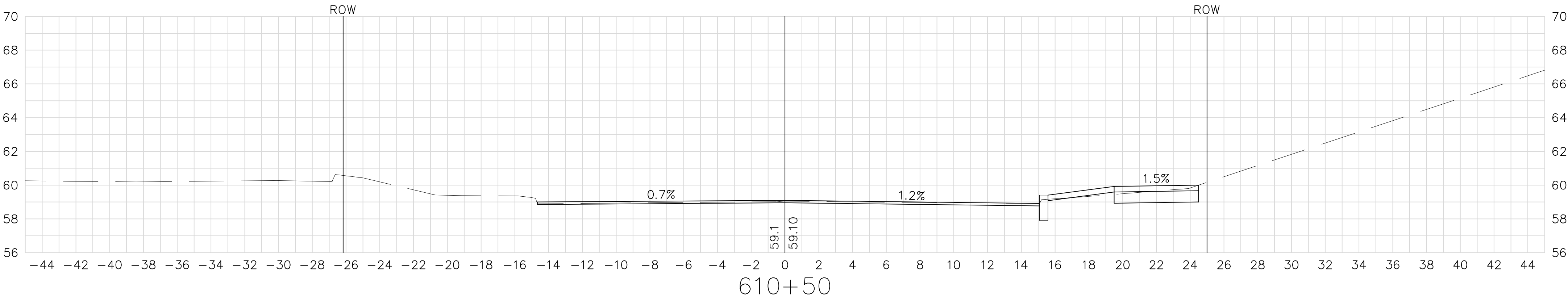
SPRINGFIELD
NORTH END/BRIGHTWOOD – NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	131	145
PROJECT FILE NO. 605222			

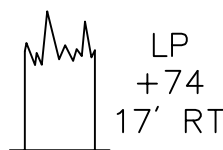
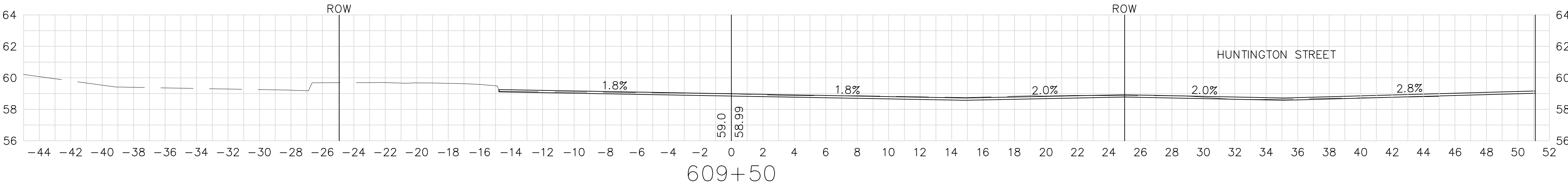
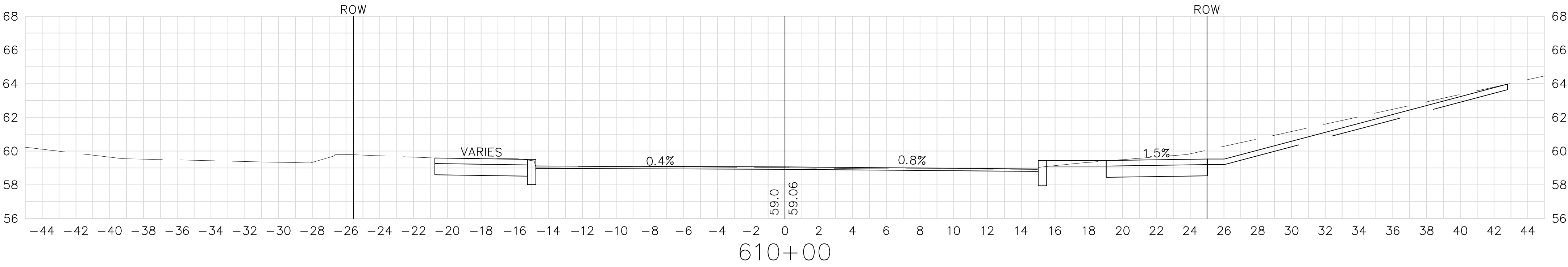
CROSS SECTIONS
BIRNIE AVENUE



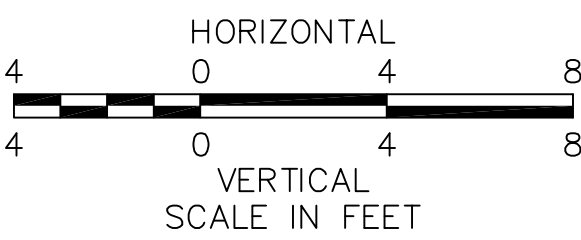
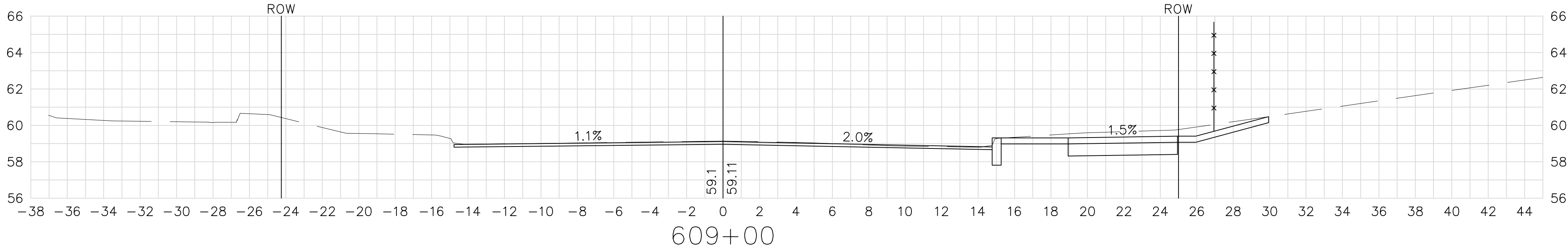
LP
+11
17' RT



UPL
+79
16' RT



LP
+74
17' RT

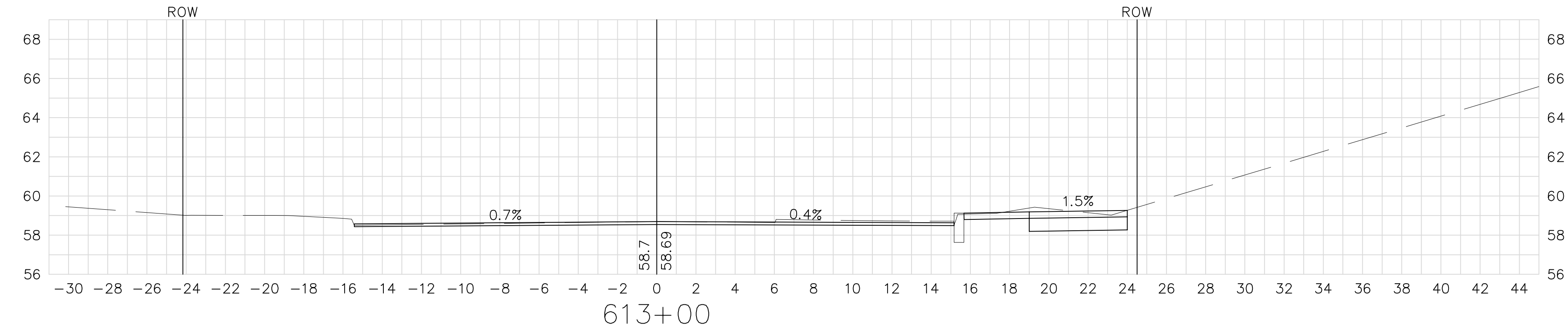


FOR GENERAL PLAN SEE SHEET NO. 23

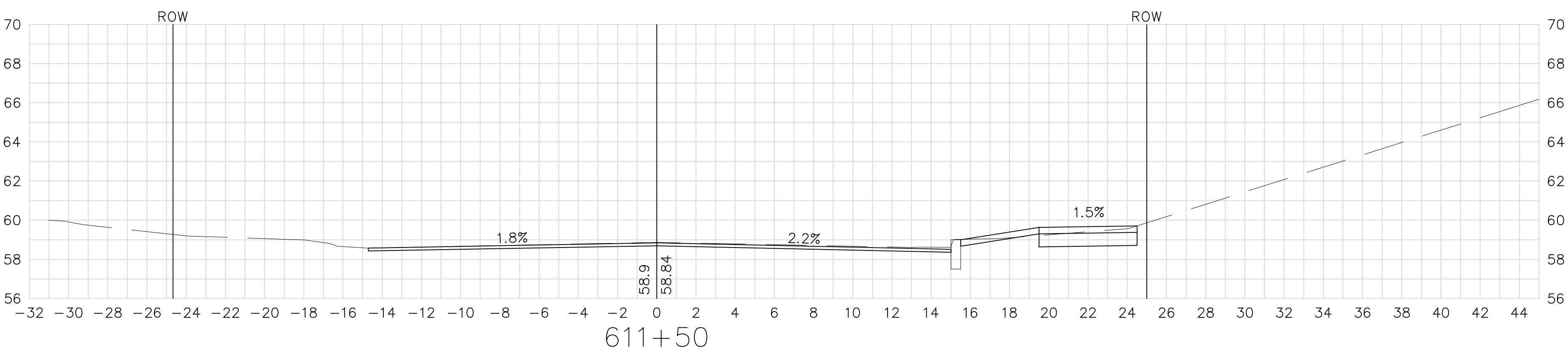
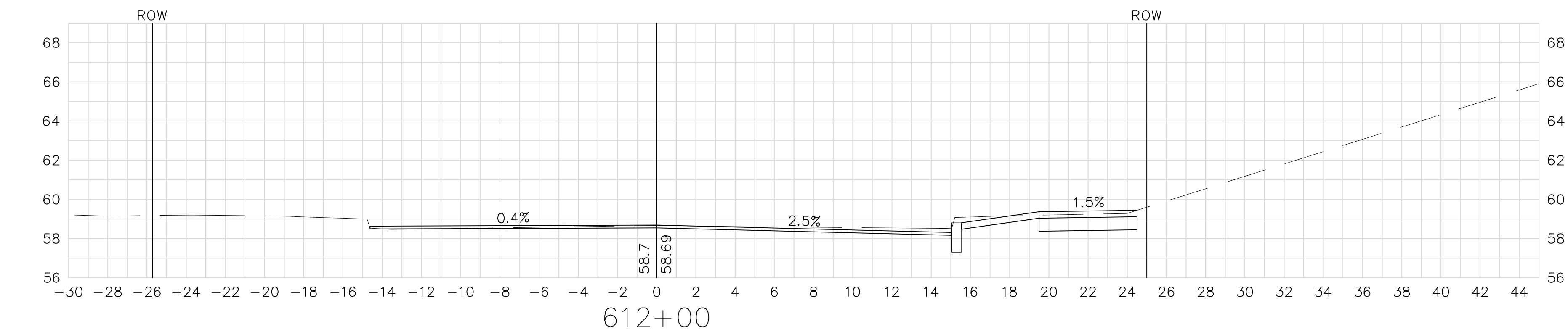
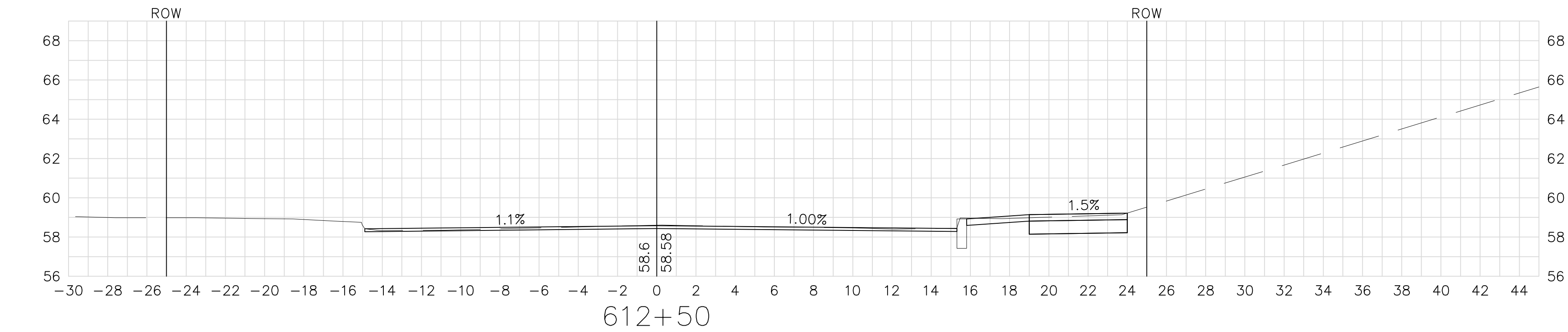
SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	132	145
PROJECT FILE NO. 605222			

CROSS SECTIONS
BIRNIE AVENUE

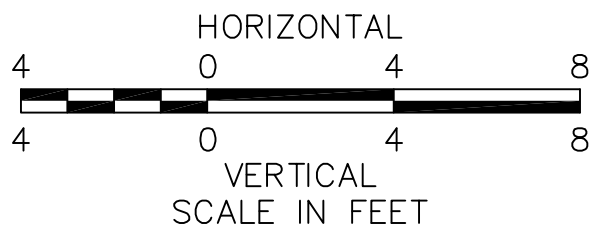


LP
+95
19' RT



LP
+54
29' LT

HYD
+70
18' RT

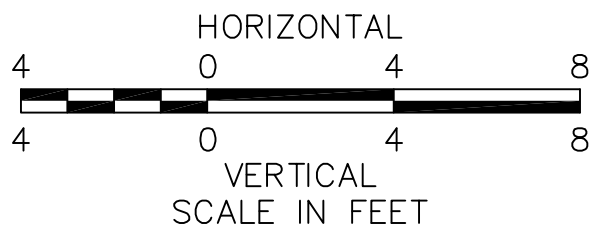
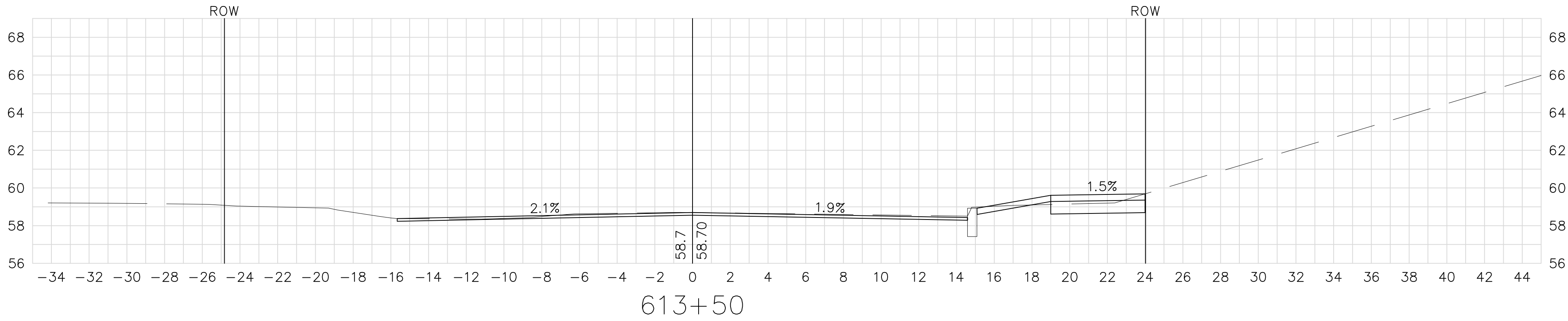
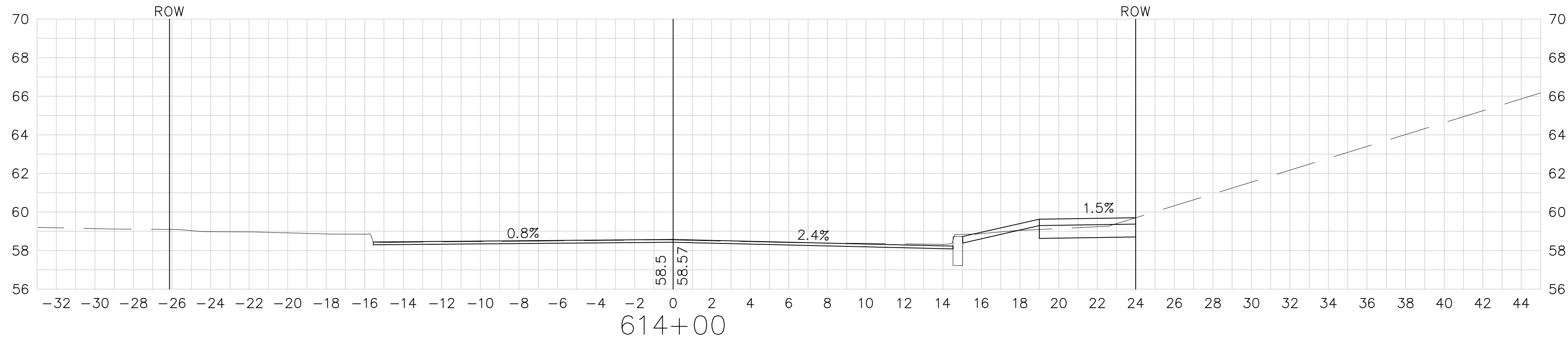
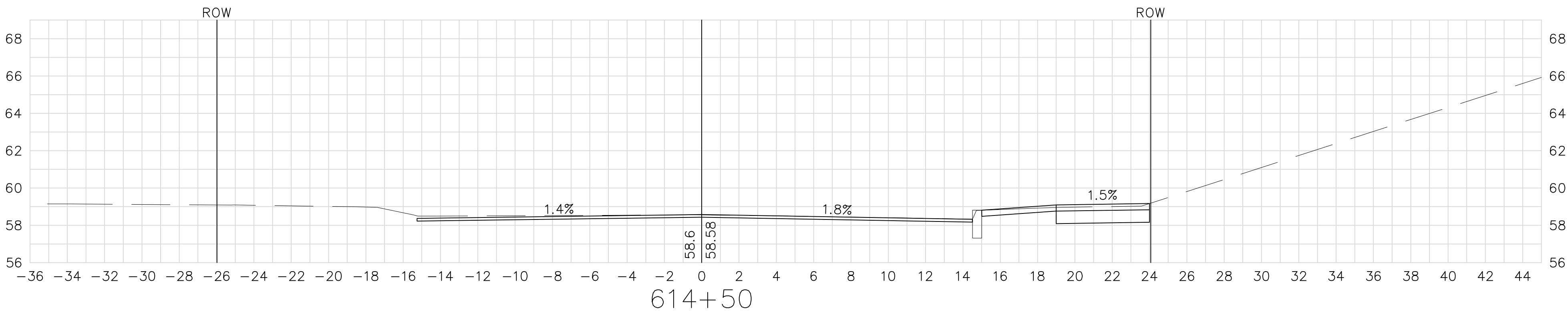
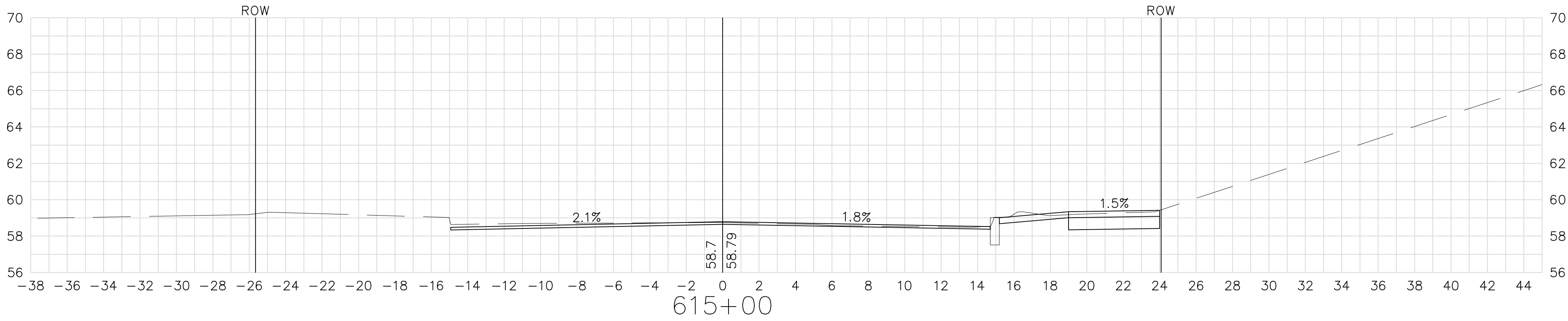
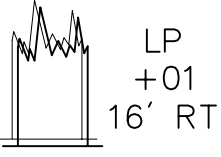
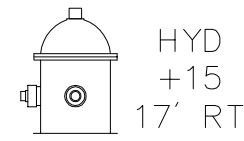
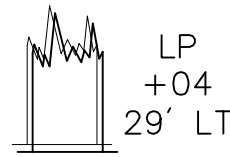


FOR GENAL PLAN SEE SHEET NO. 23

SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	133	145
PROJECT FILE NO. 605222			

CROSS SECTIONS
BIRNIE AVENUE

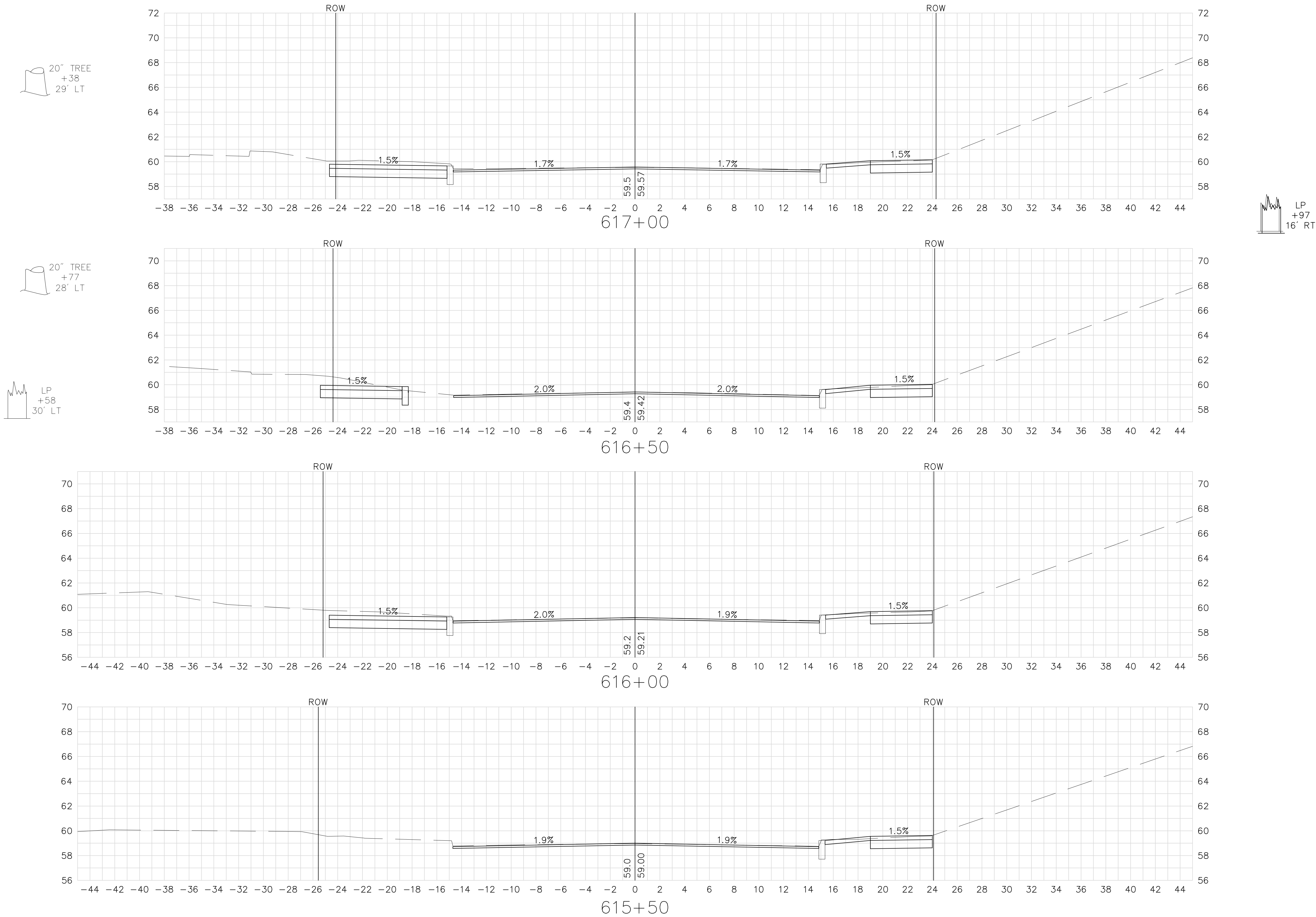


FOR GENERAL PLAN SEE SHEET NO. 24

SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	134	145
PROJECT FILE NO. 605222			

CROSS SECTIONS
BIRNIE AVENUE



FOR GENERAL PLAN SEE SHEET NO. 24

SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	135	145
PROJECT FILE NO. 605222			

CROSS SECTIONS
BIRNIE AVENUE

26" TREE
+40
27' LT

26" TREE
+98
27' LT

26" TREE
+60
27' LT

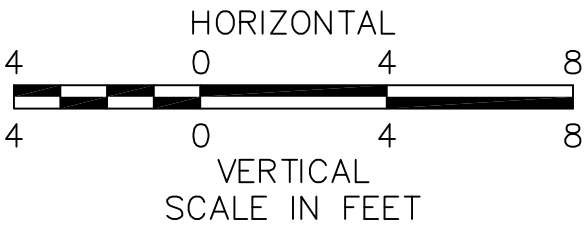
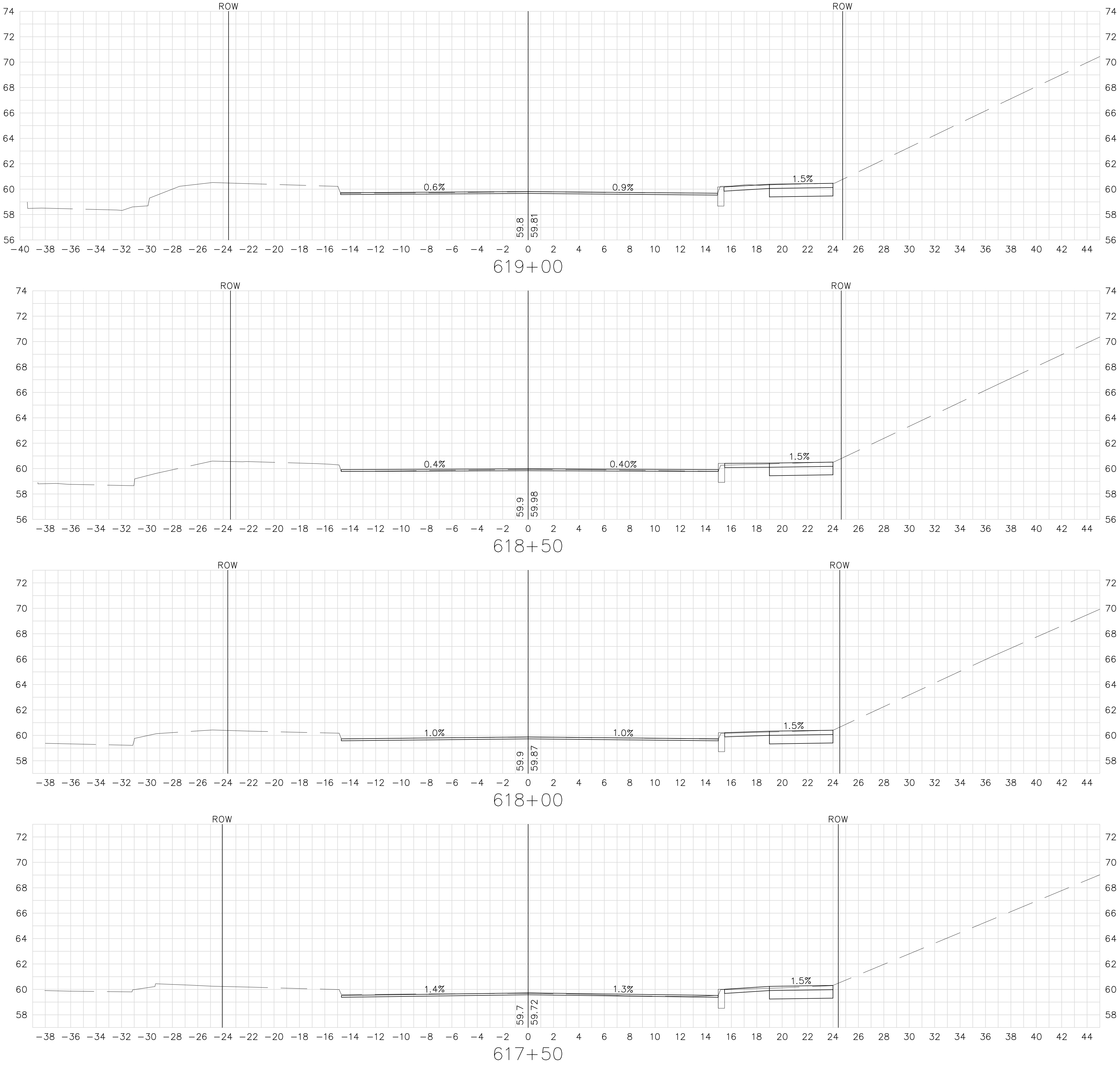
20" TREE
+18
27' LT

20" TREE
+78
27' LT

LP
+62
28' LT

LP
+95
17' RT

HYD
+58
17' RT



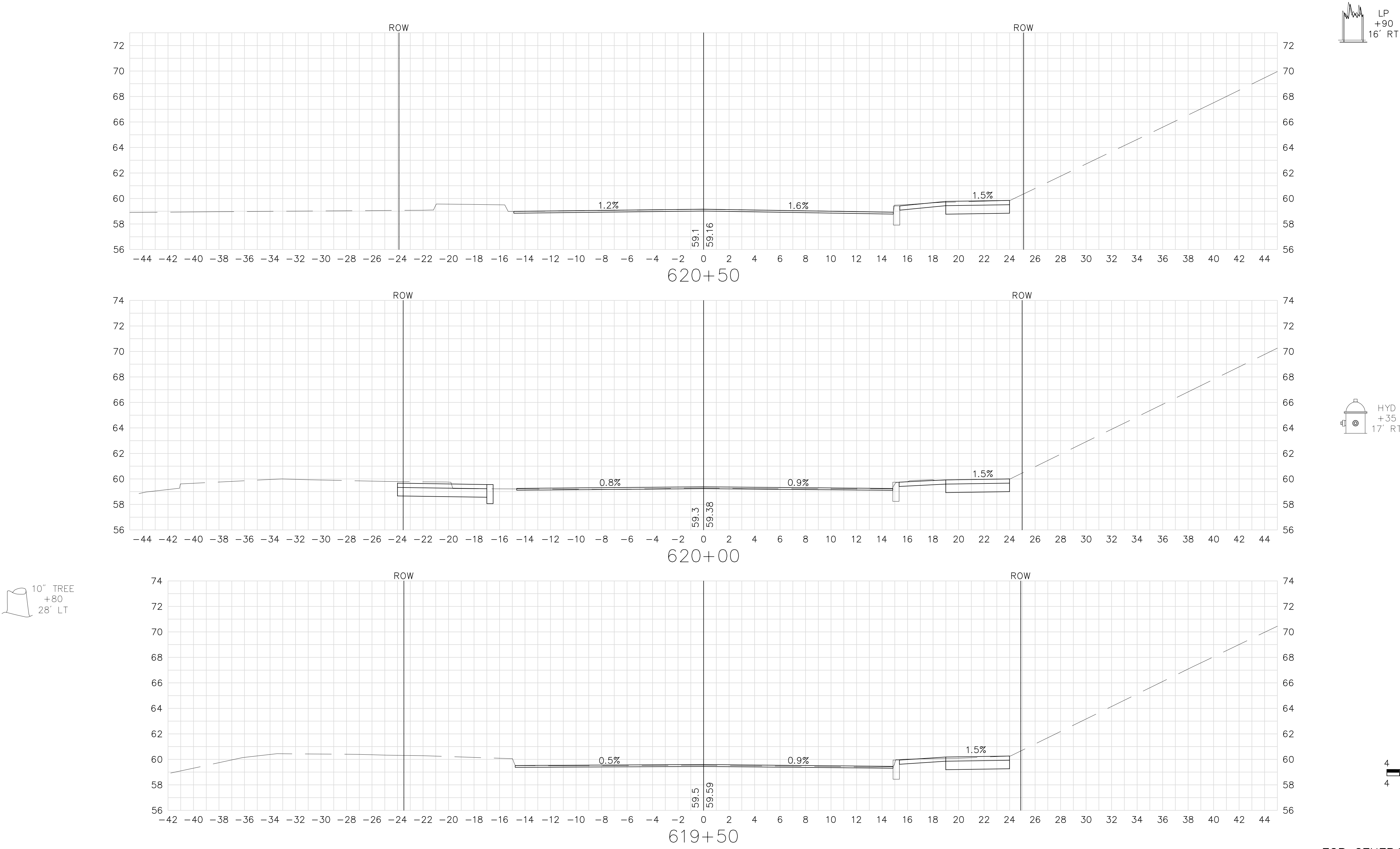
FOR GENERAL PLAN SEE SHEET NOS. 24-25

SPRINGFIELD
NORTH END/BRIGHTWOOD – NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	136	145

PROJECT FILE NO. 605222

CROSS SECTIONS
BIRNIE AVENUE

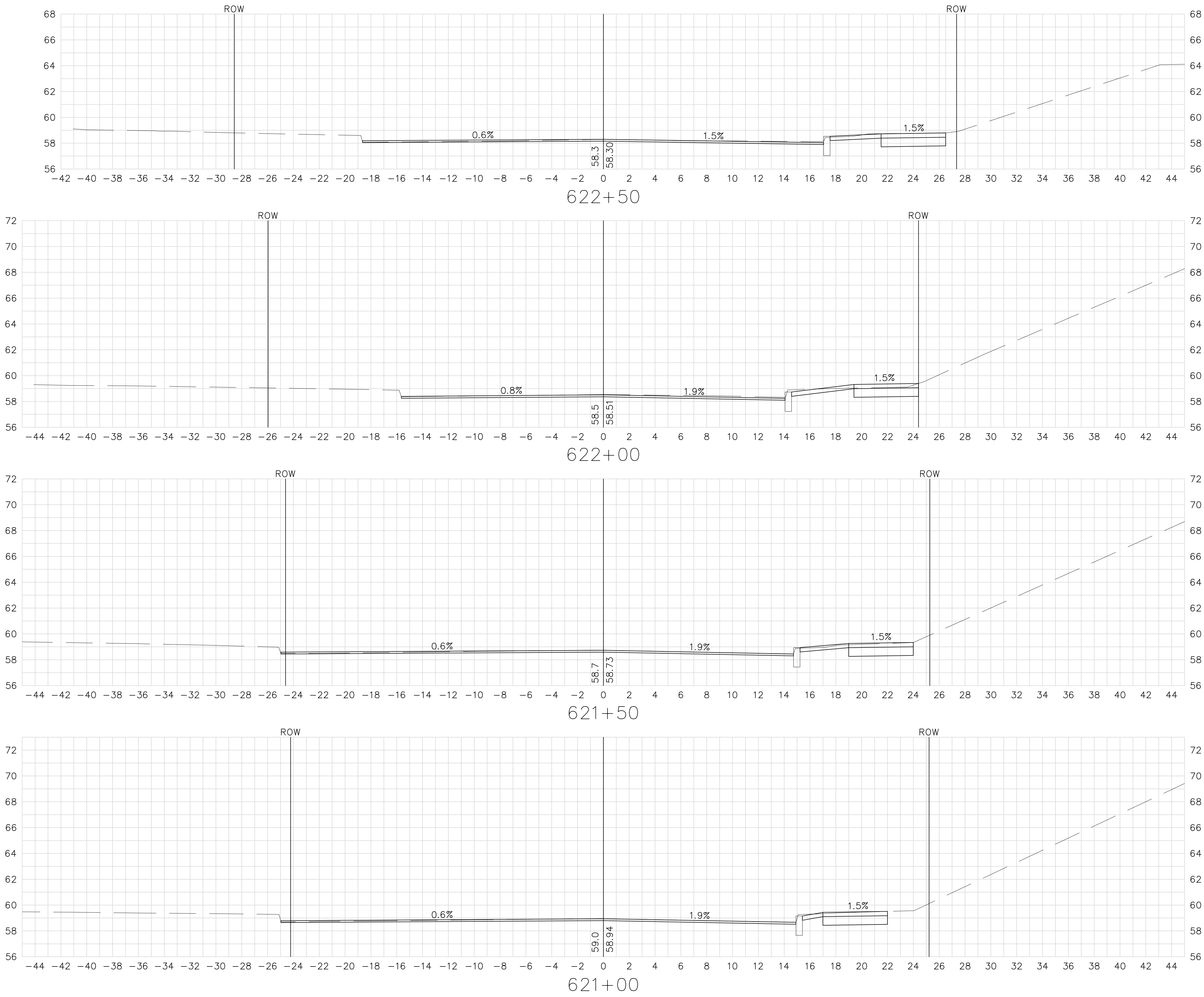


FOR GENERAL PLAN SEE SHEET NO. 25

SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	137	145
PROJECT FILE NO. 605222			

CROSS SECTIONS
BIRNIE AVENUE

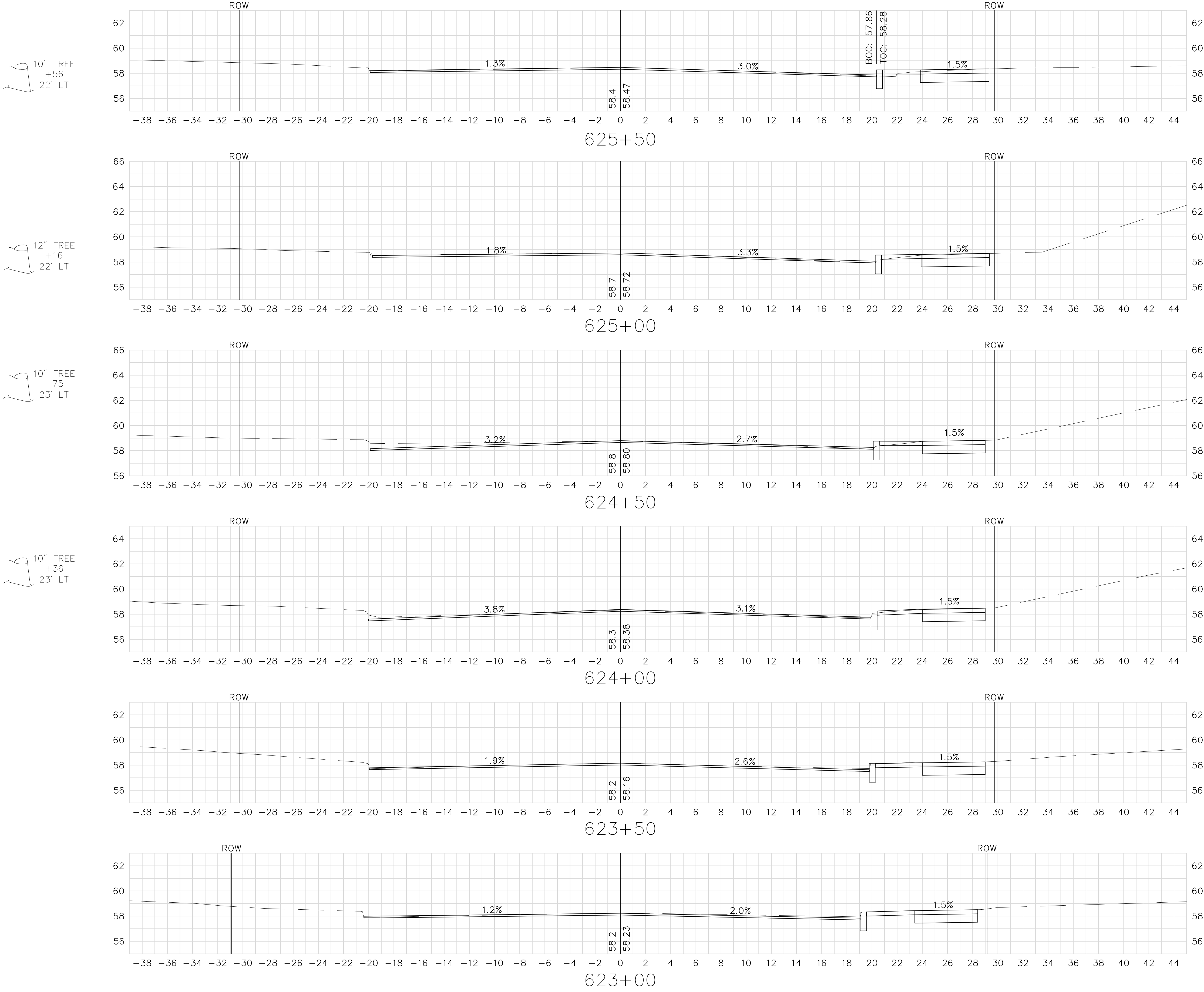


FOR GENERAL PLAN SEE SHEET NO. 25

SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	138	145
PROJECT FILE NO. 605222			

CROSS SECTIONS
BIRNIE AVENUE



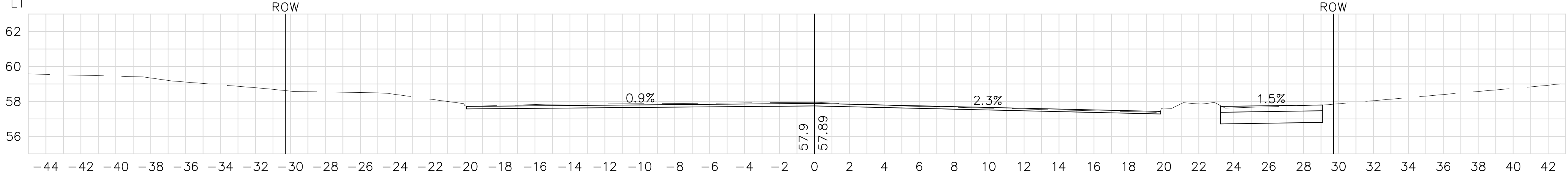
FOR GENERAL PLAN SEE SHEET NOS. 25-26

SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	139	145
PROJECT FILE NO. 605222			

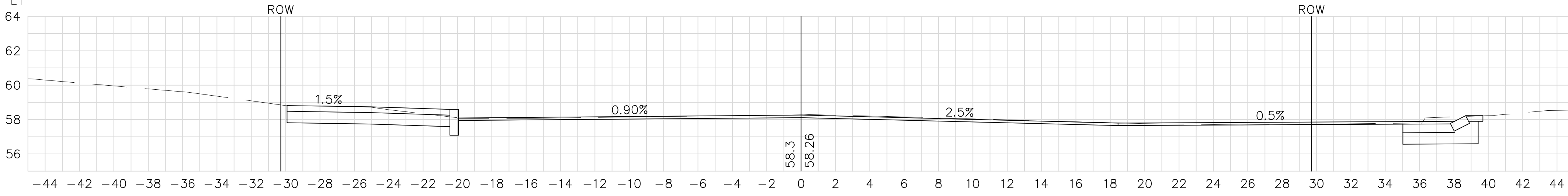
CROSS SECTIONS
BIRNIE AVENUE

5" TREE
+41
22' LT

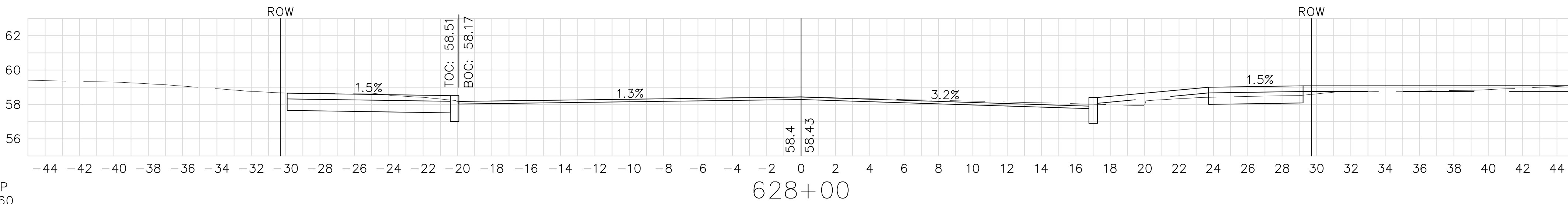


HYD
+27
22' RT

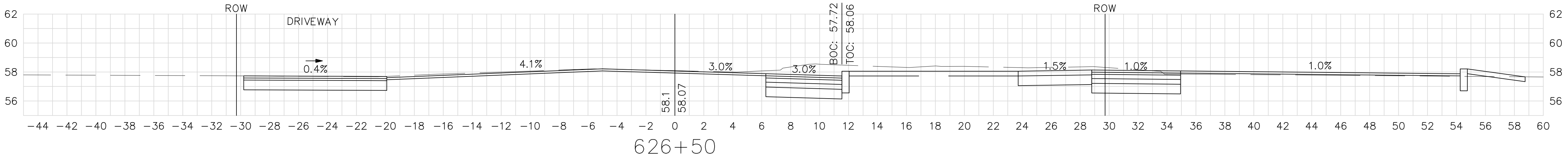
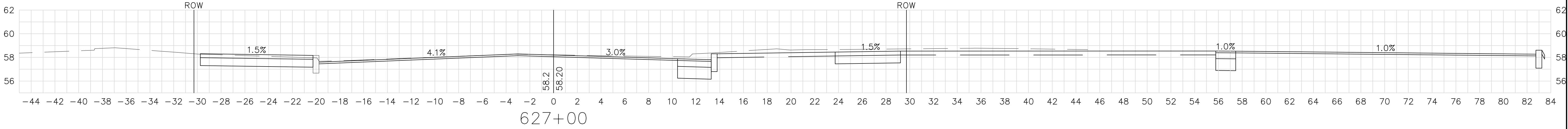
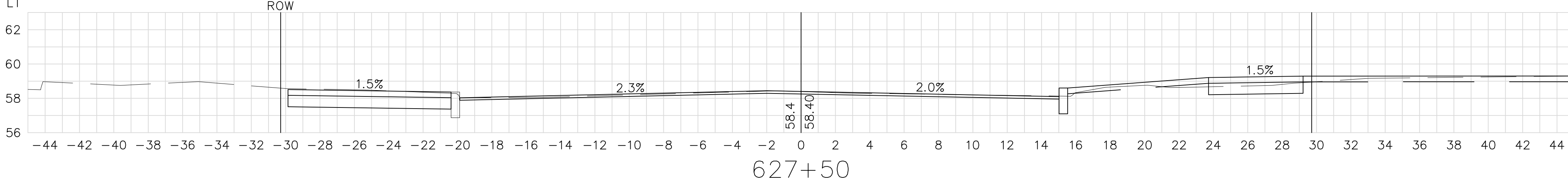
6" TREE
+81
22' LT



LP
+60
22' LT

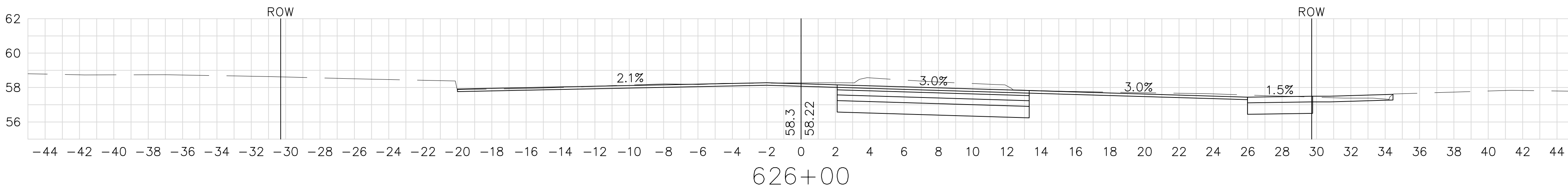


LP
+04
33' RT

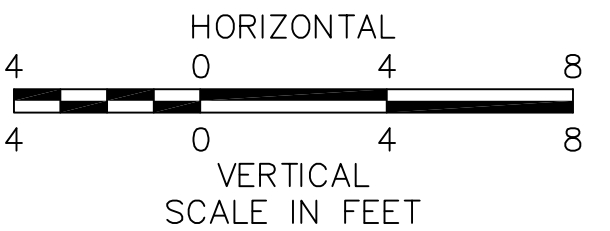


LP
+44
14' RT

LP
+40
58' RT



LP
+18
07' RT

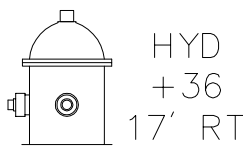
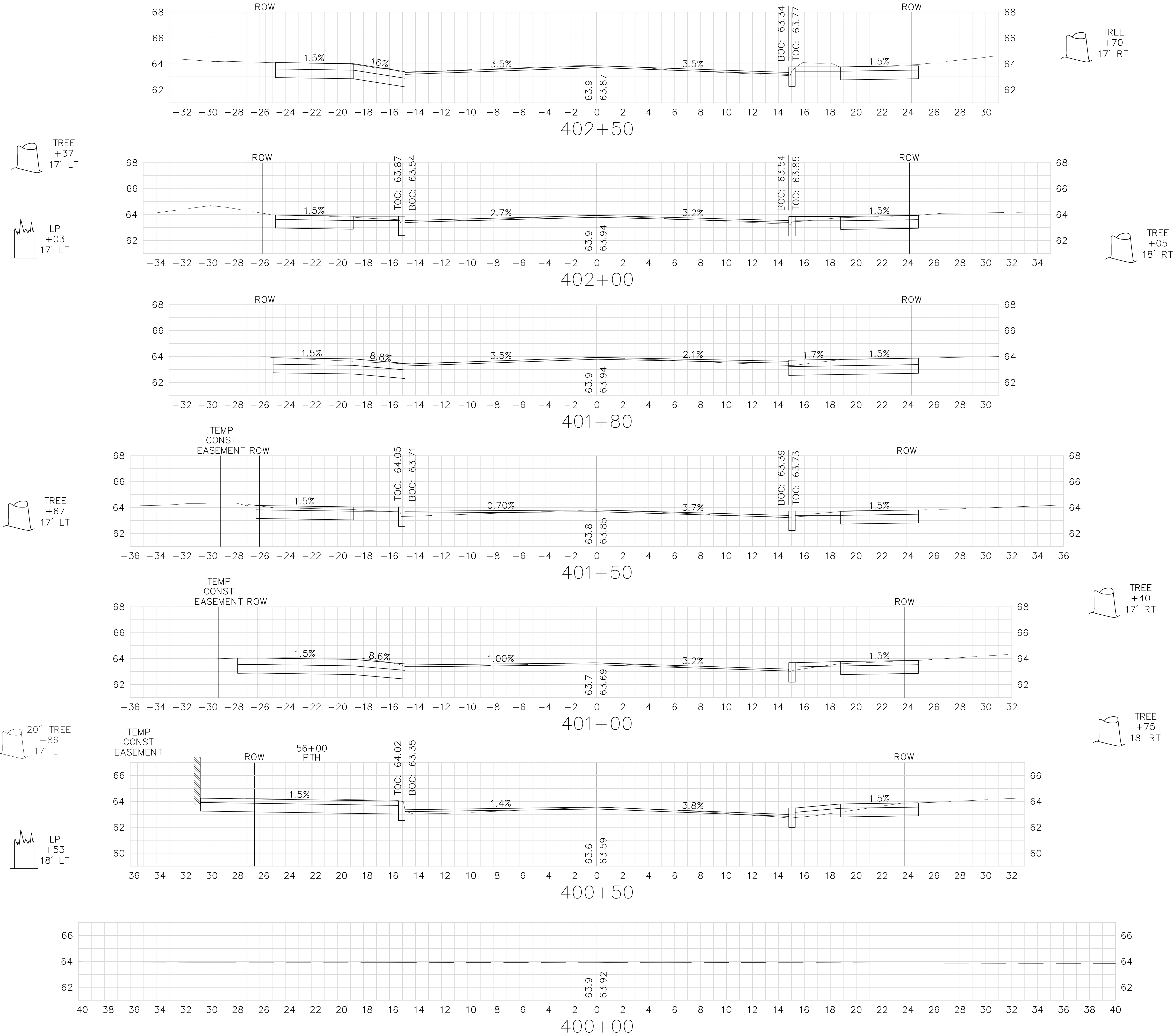


FOR GENERAL PLAN SEE SHEET NO. 26

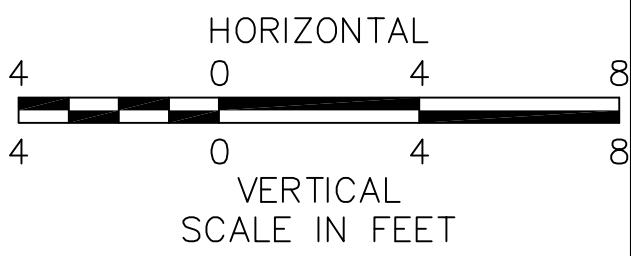
SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	140	145
PROJECT FILE NO. 605222			

CROSS SECTIONS
ARCH STREET



HYD
+36
17' RT

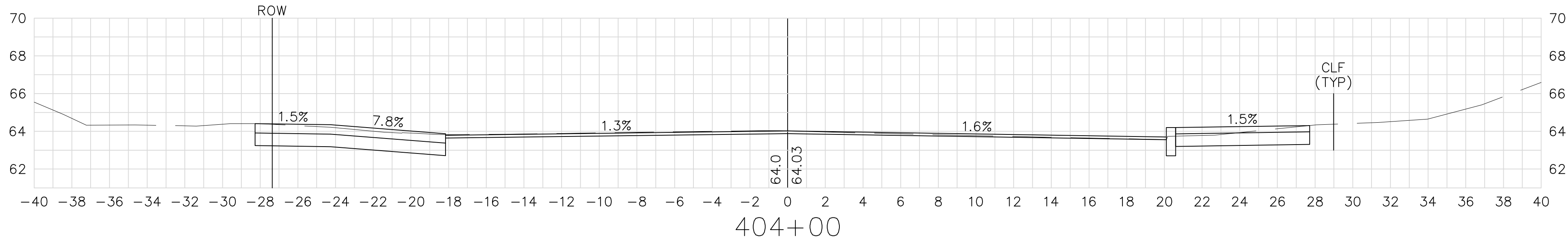
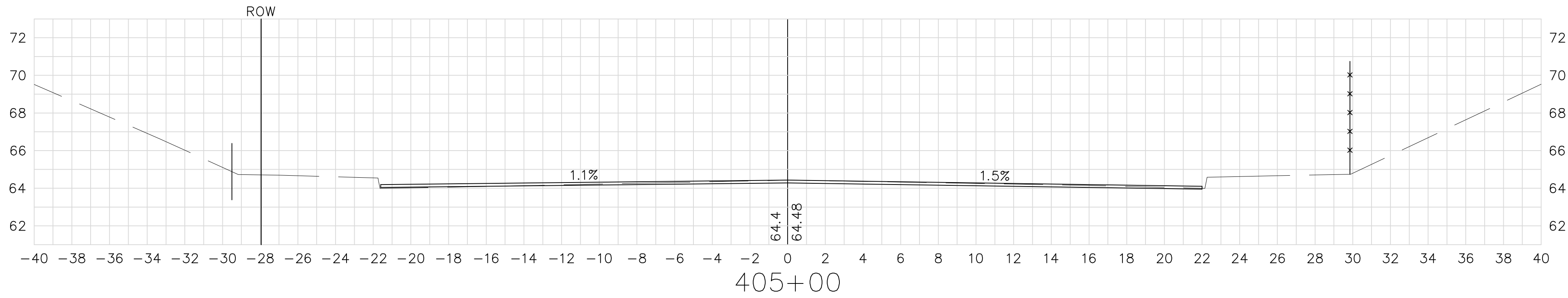


FOR GENERAL PLAN SEE SHEET NOS. 10-11

SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

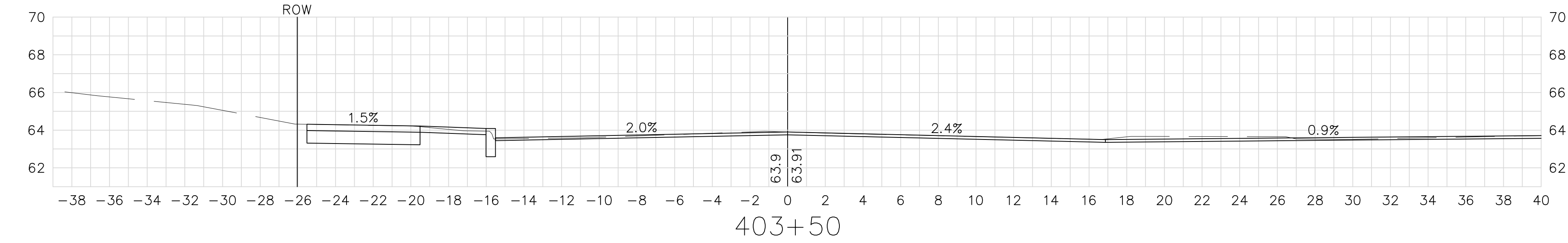
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	141	145
PROJECT FILE NO. 605222			

CROSS SECTIONS
ARCH STREET

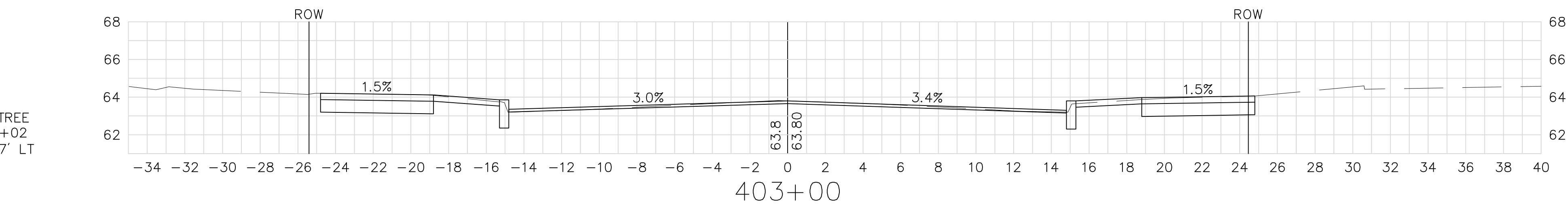


TREE
+86
19' LT

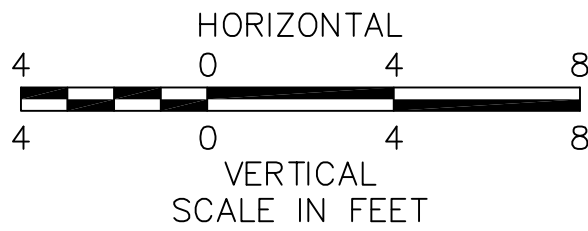
LP
+52
17' LT



TREE
+02
17' LT



HYD
+11
22' RT



TREE
+16
40' RT

24" TREE
+19
62' RT

TREE
+16
67' RT

LP
+30
73' RT

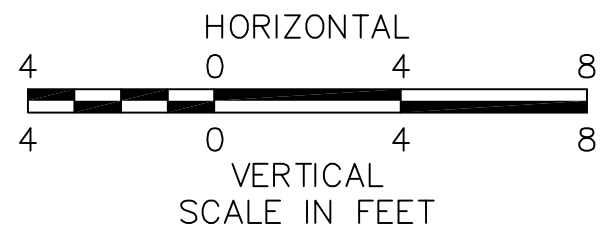
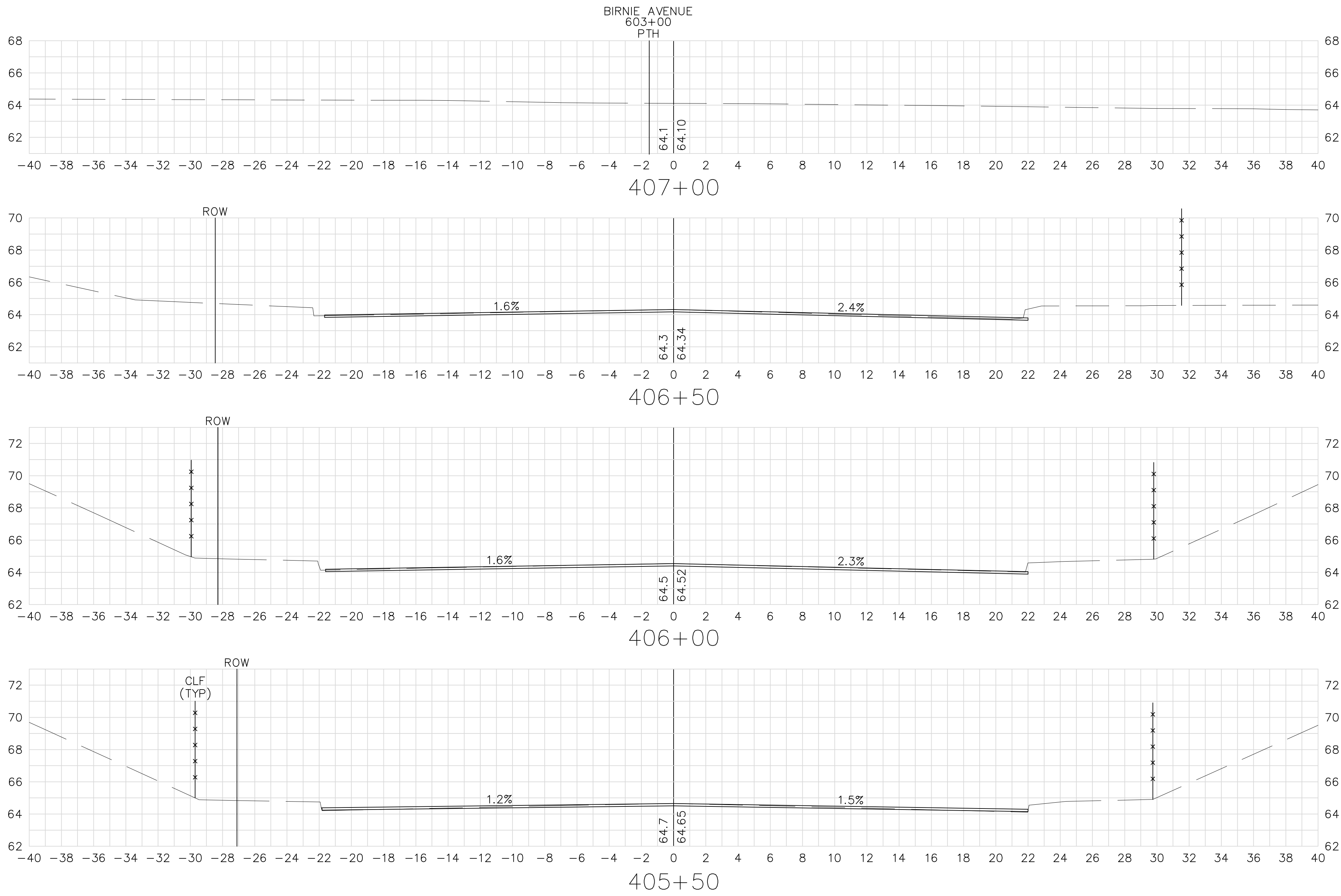
FOR GENERAL PLAN SEE SHEET NO. 11

SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	142	145

PROJECT FILE NO. 605222

CROSS SECTIONS
ARCH STREET

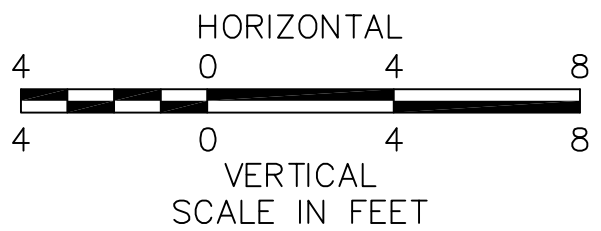
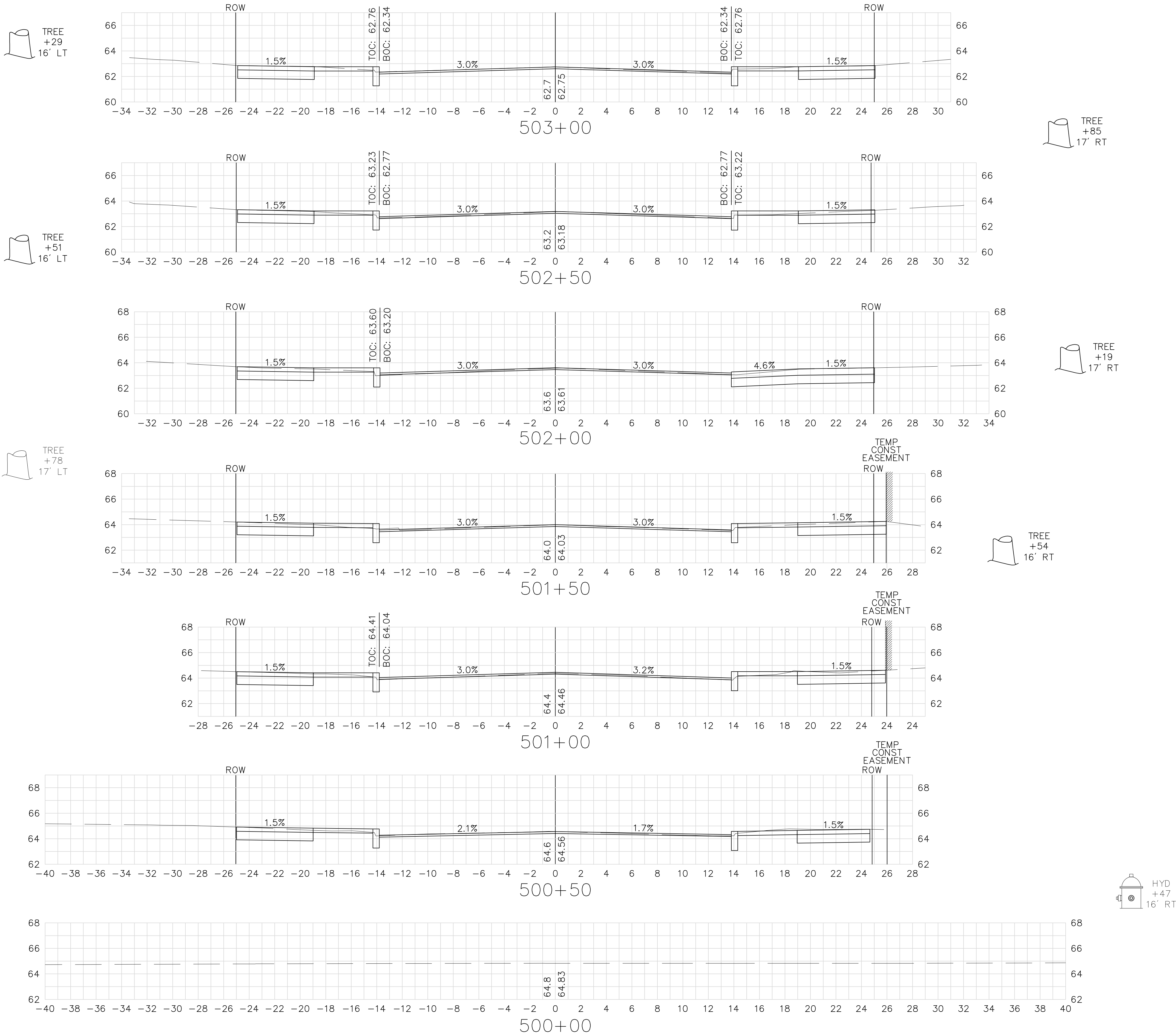


FOR GENERAL PLAN SEE SHEET NOS. 11 & 22

SPRINGFIELD
NORTH END/BRIGHTWOOD - NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	143	145
PROJECT FILE NO. 605222			

CROSS SECTIONS
HUNTINGTON STREET



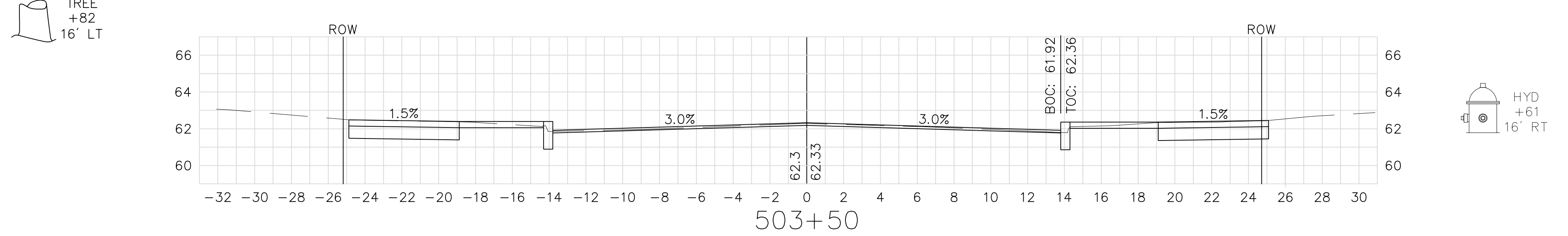
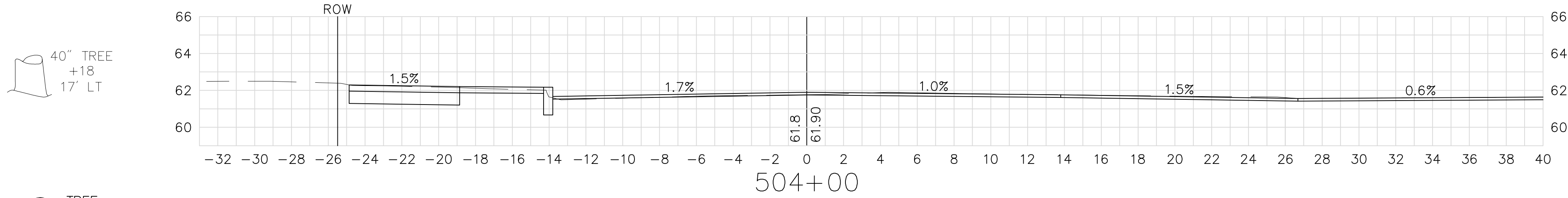
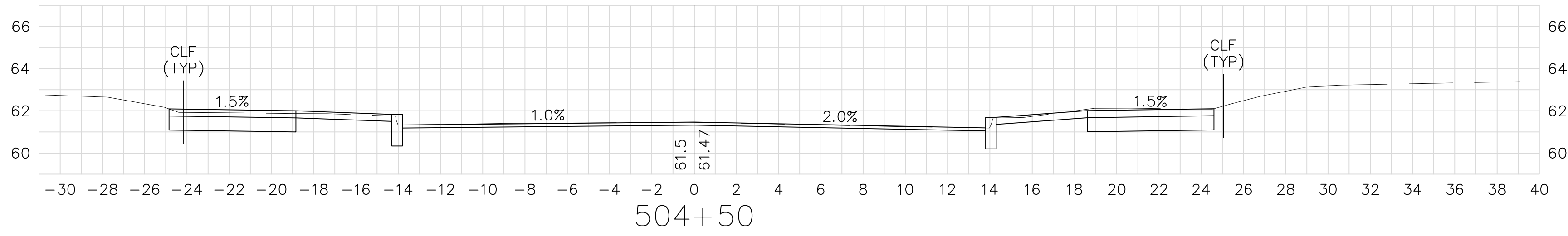
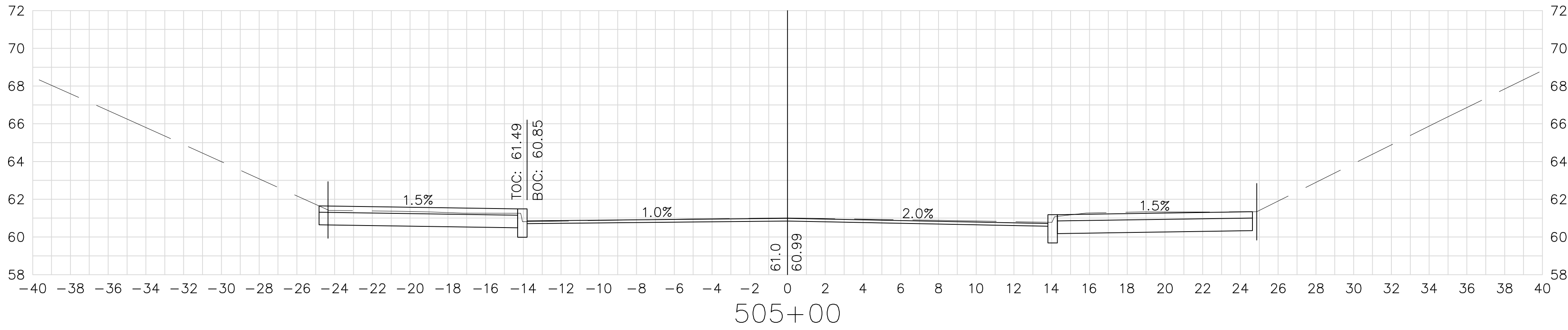
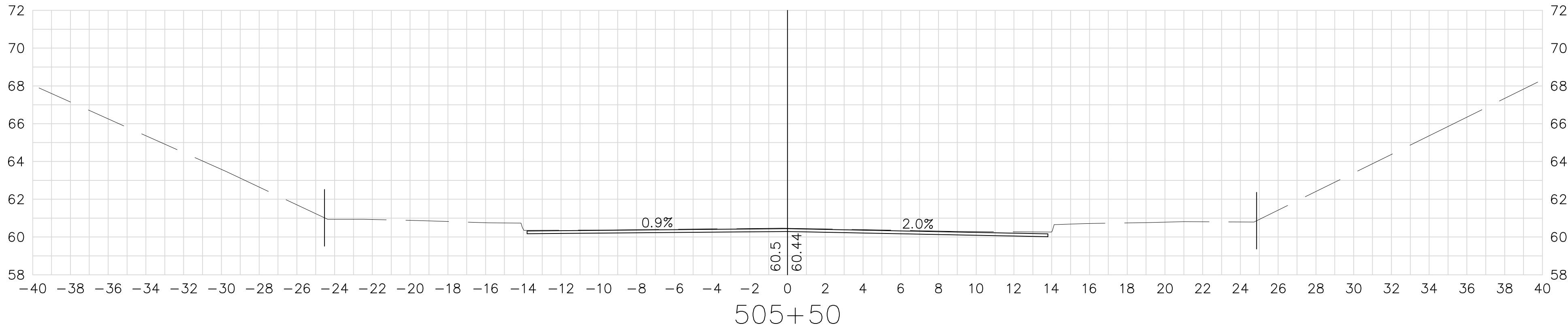
FOR GENERAL PLAN SEE SHEET NOS. 12-13

SPRINGFIELD
NORTH END/BRIGHTWOOD – NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	144	145

PROJECT FILE NO. 605222

CROSS SECTIONS
HUNTINGTON STREET

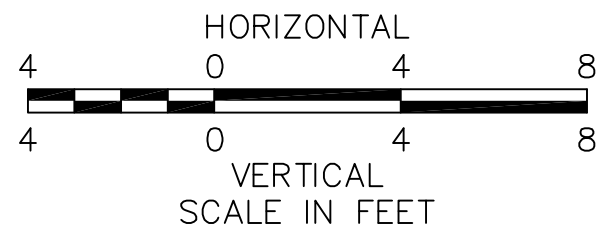


40" TREE
+18
17' LT

TREE
+82
16' LT

40" TREE
+33
16' LT

HYD
+61
16' RT



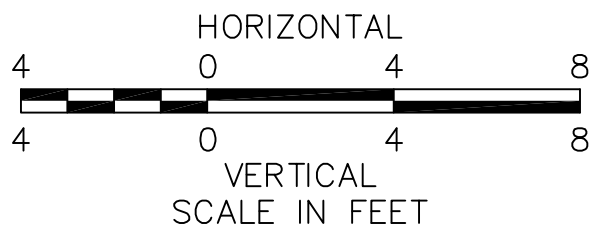
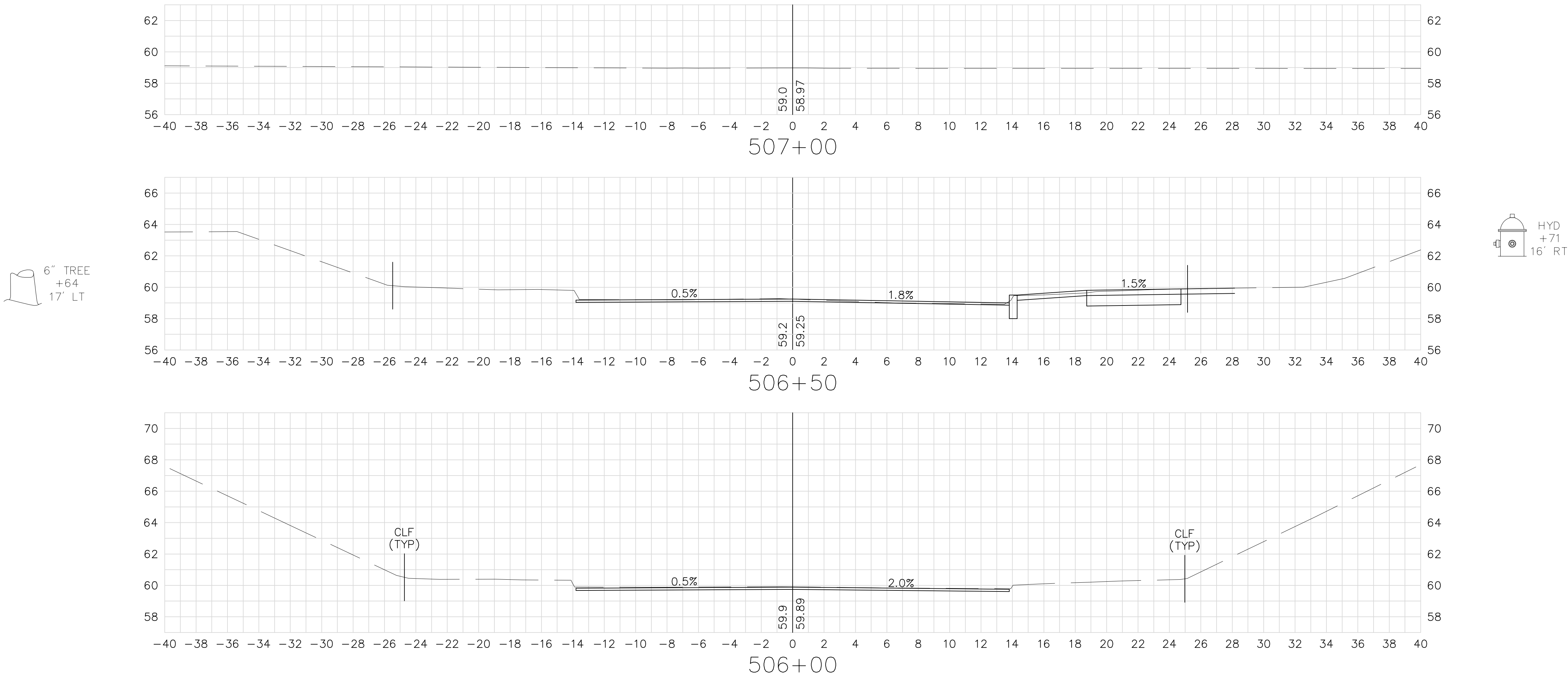
FOR GENERAL PLAN SEE SHEET NO. 13

SPRINGFIELD
NORTH END/BRIGHTWOOD – NORTH SEGMENT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	--	145	145

PROJECT FILE NO. 605222

CROSS SECTIONS
HUNTINGTON STREET



FOR GENERAL PLAN SEE SHEET NOS. 13 & 23

**DEPARTMENTAL AND INTERDEPARTMENTAL CORRESPONDENCES
CITY OF SPRINGFIELD
MASSACHUSETTS**

DATE: August 3, 2016

TO: Anthony I Wilson, Esq.
City Clerk

FROM: Hector Velez, DPW Engineer
on behalf of BPW

DEPARTMENT: City Clerk Office

SUBJECT: Board's agenda for:
August 17, 2016

NOTICE OF MEETING

Wednesday August 17, 2016 –, At the corner of Main Street and Cross Street, Springfield, MA
at 5:00 P.M

Minutes of Previous Meeting
Communications
Old Business

VERIZON
New Business: Main Street

HEARING RE: To install underground conduits on
Main Street from State Street to Union Street for the
distribution of intelligence and telecommunication.

Attachment: 8-17-2016 notice Verizon (3629 : Main Street (VERIZON))



City Council
36 Court Street
Springfield, MA 01103

ADOPTED

PETITION (ID # 3630)

Meeting: 10/03/16 07:00 PM
Department: Department of Public Works
Category: General
Prepared By: Hector Velez
Initiator: Hector Velez
Sponsors: Mayor Domenic J. Sarno
DOC ID: 3630

Norman Street (COMCAST)

CITY OF SPRINGFIELD, MASSACHUSETTS

Date: August 23, 2016

TO THE MAYOR AND CITY COUNCIL OF THE CITY OF SPRINGFIELD:

The Board of Public Works, to which was referred the petition of Comcast of Massachusetts LL dated July 25, 2016, to install hundred and ninety two (192') feet of 4" PVC conduit with fiber optic cable from utility pole 1128/09 on Nottingham Street to utility pole 1144-42 on Norman Street, beginning at utility pole on Nottingham Street, located on the north side about fifty (50') feet from Carew Street and continuing with 4" PVC conduit westerly direction approximately one hundred and ninety two (192') feet to utility pole on the north side of Norman Street, all as substantially shown on a plan attached, dated 7/22/2016, which is incorporated herein by reference and to lay and maintain underground cables and Fiber Optic lines in public ways for the purpose to close fiber optic loop, reports thereon as follows:

By virtue of Chapter 708 of the Acts of 1977 the Board of Public Works held the hearing on the above matter provided for in Section 22 of Chapter 166 of the General Laws. The hearing was held on August 22, 2016 at 5:00 P.M. at the corner of Norman Street and Carew Street Springfield, MA after due notice from the office of the City Clerk. Three (3) members of the Board and one (1) person interested in the matter were present. Of the latter, one (1) voted in favor of and no-one (0) voted against.

The Board finds the request necessary in order that the company can completed the fiber optic loop network around Springfield.

After careful consideration, the Board recommends the petition be granted provided:

That due care for public safety is exercised during construction including but not limited to the use of a police officer(s) for traffic control if necessary.

That said construction would not unnecessarily interfere with the movement of vehicular or pedestrian traffic in the area.

That care be taken during said construction not to damage any underground services.

That the construction site be returned to the same condition as found or better. Said company shall indemnify and save harmless against all damages, costs and expenses whatsoever to which the City may be subjected in consequence of the acts or neglect of said Company, its agents or servants, or in any manner arising from the rights and privileges granted it by the City.

In addition said company shall, before a public way is disturbed for the laying of its wire or conduit, execute its bond in the penal sum of Ten Thousand Dollars (\$10,000) conditioned for faithful performance of its duties under this permit.

Said company shall comply with the requirements of existing Ordinances and orders and comply with any changes in Ordinances and orders as may hereafter be adopted by the Mayor and Council governing the construction and maintenance of buried cable, conduits and wires.

That any sidewalks that are damaged or removed will be replaced in kind and in accordance with the City of Springfield's Standard Specifications.

That ramps for the handicapped will be provided if and where required by law and in conformance with the Rules and Regulations of the Massachusetts Architectural Barrier Board.

That any curbing that is disturbed during construction will be reset to the established street grade using proper construction procedures.

That all proposed silo, manhole and hexhole covers will conform to and be compatible with established street, treebelt or sidewalk grades with suitable non-skid covers when in the sidewalk area.

That the Springfield Water and Sewer Commission be notified before construction begins. All installations of adjacent utilities must be a minimum of 4 feet from the existing water and/or sewer main, edge to edge of pipe.

That asphalt trench restoration be done in accordance with the City of Springfield DPW requirements.

That all conditions set forth in the respective order are complied with.

_____)
_____) BOARD OF PUBLIC WORKS
_____)

HISTORY:**09/12/16** City Council**REFER TO COMMITTEE****Next: 10/03/16****RESULT: RECEIVED PASSED**

**DEPARTMENTAL AND INTERDEPARTMENTAL CORRESPONDENCES
CITY OF SPRINGFIELD
MASSACHUSETTS**

DATE: August 8, 2016

TO: Anthony I Wilson, Esq.
City Clerk

FROM: Hector Velez, DPW Engineer
on behalf of BPW

DEPARTMENT: City Clerk

SUBJECT: Board's agenda for:
August 22, 2016

NOTICE OF MEETING

Monday August 22, 2016 – At the corner of Norman Street and Carew Street in Springfield, MA at 5:00 P.M

Minutes of Previous Meeting
Communications
Old Business

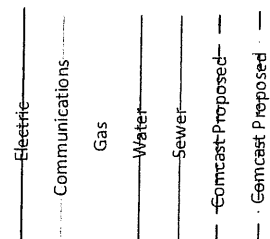
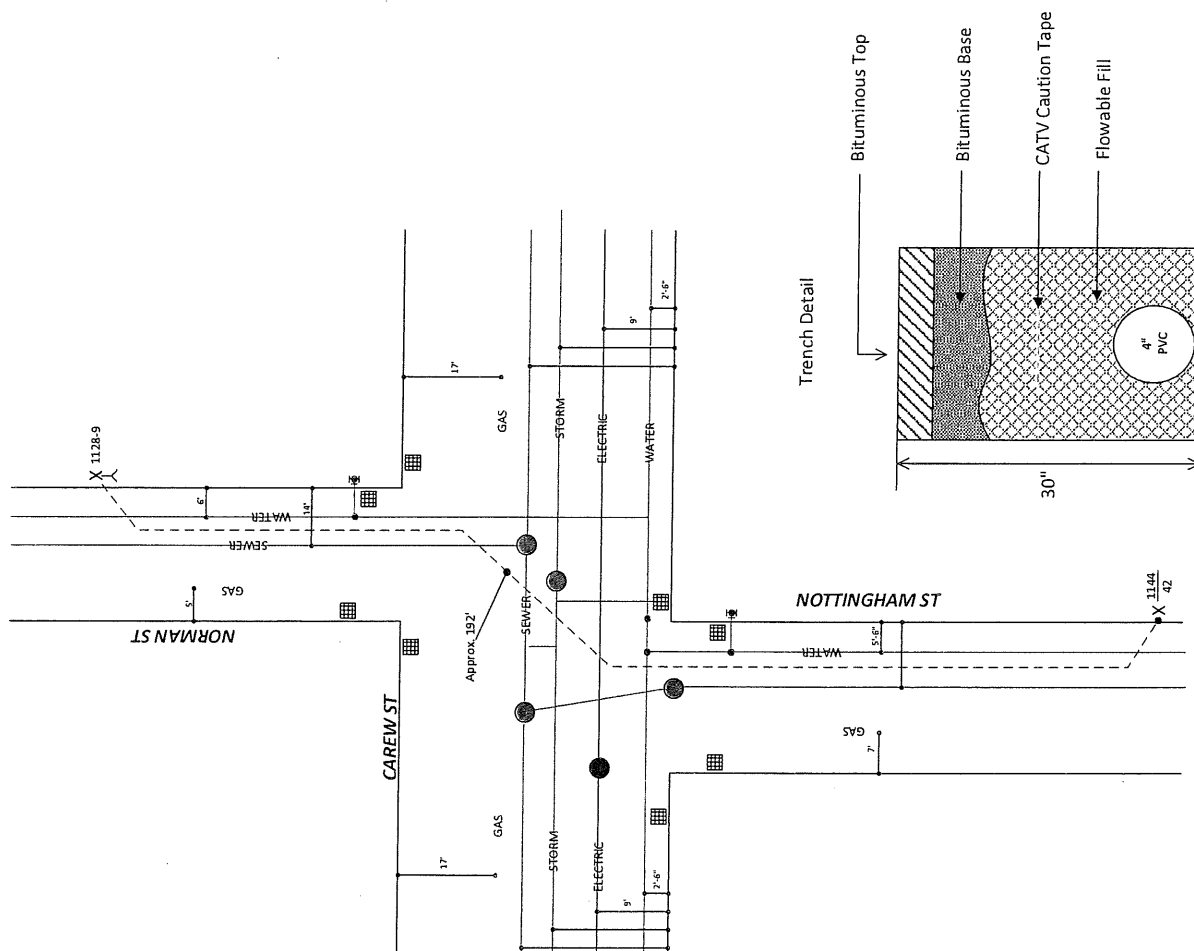
New Business: **Norman Street**
COMCAST

HEARING RE: To install 192' feet of 4 inches PVC conduit with fiber optic & Coax Cable line from pole 1128-9 on Norman Street to pole 1144/42 on Nottingham Street.

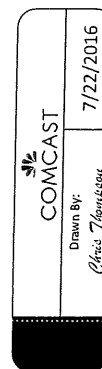
Attachment: 8-22-2016 Norman St. COMCAST (3630 : Norman Street (COMCAST))

Construction Details

- Install 1-4" Sch. 40 PVC conduit from pole 1128-9 on Norman St approximately 61' in a south easterly direction onto Carew St.
- Continue 1-4" Sch. 40 PVC conduit approximately 54' in a southerly direction, crossing Carew St. to Nottingham St.
- Continue 1-4" Sch. 40 PVC conduit approximately 85' onto Nottingham St to pole 1144/42.
- All trenching to be done in accordance to City of Springfield Department of Public Work guidelines for Street Occupancy work.



SCALE (IN FEET) 1" = 20"





City Council
36 Court Street
Springfield, MA 01103

ADOPTED

PETITION (ID # 3631)

Meeting: 10/03/16 07:00 PM
Department: Department of Public Works
Category: General
Prepared By: Hector Velez
Initiator: Hector Velez
Sponsors: Mayor Domenic J. Sarno
DOC ID: 3631

Brookdale Drive (COMCAST)

CITY OF SPRINGFIELD, MASSACHUSETTS

Date: August 25, 2016

TO THE MAYOR AND CITY COUNCIL OF THE CITY OF SPRINGFIELD:

The Board of Public Works, to which was referred the petition of Comcast of Massachusetts LL dated July 25, 2016, to install one thousand two hundred two (1,202') feet of 4" PVC conduit with fiber optic cable line on Brookdale Drive, beginning at existing Comcast vault located east side on Brookdale Drive by #155 building and continuing six hundred and forty (640') feet southerly direction to a new Comcast vault to be located in front of #95 Brookdale Drive to continuing westerly across Brookdale Drive two hundred eighty (280') feet to building #100 on Brookdale Drive and from the new vault continue southerly for two hundred eighty two (282') feet to existing Comcast vault easterly side on Brookdale drive in front of #90 building, all as substantially shown on a plan attached, dated 7/22/2016, which is incorporated herein by reference and to lay and maintain underground cables and Fiber Optic lines in public ways for the purpose to close fiber optic loop, reports thereon as follows:

By virtue of Chapter 708 of the Acts of 1977 the Board of Public Works held the hearing on the above matter provided for in Section 22 of Chapter 166 of the General Laws. The hearing was held on August 24, 2016 at 5:00 P.M. in front of #155 Brookdale Drive Springfield, MA after due notice from the office of the City Clerk. Two (2) members of the Board and one (1) person interested in the matter were present. Of the latter, one (1) voted in favor of and no-one (0) voted against.

The Board finds the request necessary in order that the company can complete the fiber optic loop network around Springfield and to provide service to #100 Brookdale Drive building.

After careful consideration, the Board recommends the petition be granted provided:

That due care for public safety is exercised during construction including but not limited to the use of a police officer(s) for traffic control if necessary.

That said construction would not unnecessarily interfere with the movement of vehicular or pedestrian traffic in the area.

That care be taken during said construction not to damage any underground services.

That the construction site be returned to the same condition as found or better. Said company shall indemnify and save harmless against all damages, costs and expenses whatsoever to which the City may be subjected in consequence of the acts or neglect of said Company, its agents or servants, or in any manner arising from the rights and privileges granted it by the City.

In addition said company shall, before a public way is disturbed for the laying of its wire or conduit, execute its bond in the penal sum of Ten Thousand Dollars (\$10,000) conditioned for faithful performance of its duties under this permit.

Said company shall comply with the requirements of existing Ordinances and orders and comply with any changes in Ordinances and orders as may hereafter be adopted by the Mayor and Council governing the construction and maintenance of buried cable, conduits and wires.

That any sidewalks that are damaged or removed will be replaced in kind and in accordance with the City of Springfield's Standard Specifications.

That ramps for the handicapped will be provided if and where required by law and in conformance with the Rules and Regulations of the Massachusetts Architectural Barrier Board.

That any curbing that is disturbed during construction will be reset to the established street grade using proper construction procedures.

That all proposed silo, manhole and hexhole covers will conform to and be compatible with established street, treebelt or sidewalk grades with suitable non-skid covers when in the sidewalk area.

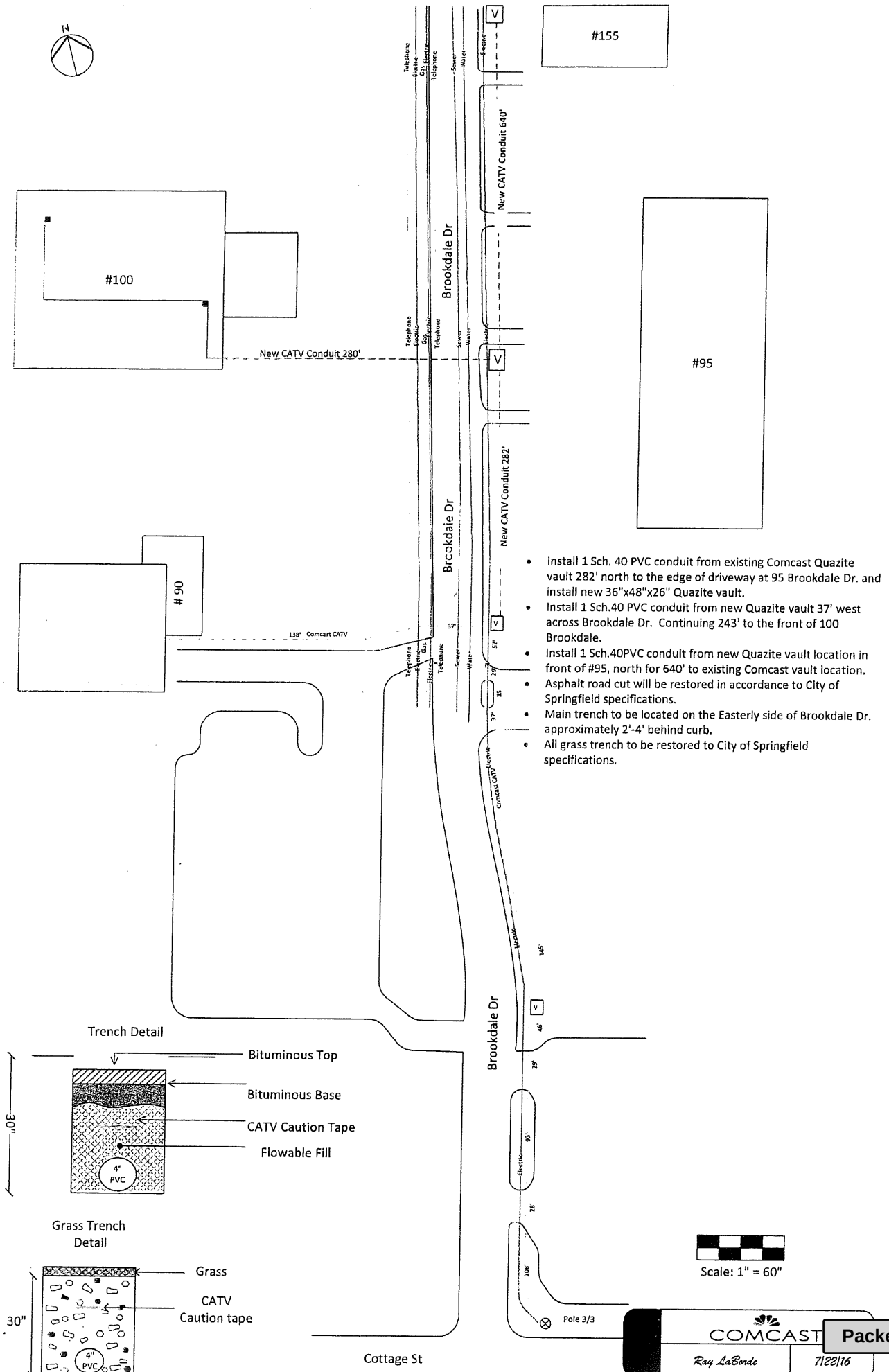
That the Springfield Water and Sewer Commission be notified before construction begins. All installations of adjacent utilities must be a minimum of 4 feet from the existing water and/or sewer main, edge to edge of pipe.

That asphalt trench restoration be done in accordance with the City of Springfield DPW requirements.

That all conditions set forth in the respective order are complied with.

_____)
_____) BOARD OF PUBLIC WORKS
_____)

HISTORY:**09/12/16** City Council**REFER TO COMMITTEE****Next: 10/03/16****RESULT: RECEIVED PASSED**



**DEPARTMENTAL AND INTERDEPARTMENTAL CORRESPONDENCES
CITY OF SPRINGFIELD
MASSACHUSETTS**

DATE: August 9, 2016

TO: Anthony I Wilson, Esq.
City Clerk

FROM: Hector Velez, DPW Engineer
on behalf of BPW

DEPARTMENT: City Clerk

SUBJECT: Board's agenda for:
August 24, 2016

NOTICE OF MEETING

Wednesday August 24, 2016 – In front of #155 Brookdale Drive in Springfield, MA at 5:00
P.M

Minutes of Previous Meeting
Communications
Old Business

New Business: Brookdale Drive
COMCAST

HEARING RE: To install 1202' feet of 4 inches PVC conduit with fiber optic & Coax Cable
line on Brookdale Drive.

Attachment: 8-24-2016 Brookdale Dr. COMCAST (3631 : Brookdale Drive (COMCAST))



City Council
36 Court Street
Springfield, MA 01103

ADOPTED

PETITION (ID # 3637)

Meeting: 10/03/16 07:00 PM
Department: Department of Public Works
Category: General
Prepared By: Hector Velez
Initiator: Hector Velez
Sponsors: Mayor Domenic J. Sarno
DOC ID: 3637

Middlesex Street (EVERSOURCE)

CITY OF SPRINGFIELD, MASSACHUSETTS

Date: August 30, 2016

TO THE MAYOR AND CITY COUNCIL OF THE CITY OF SPRINGFIELD:

The Board of Public Works, to which was referred the petition #6239 of Everesource Electric Company dated August 02, 2016, to Install new 45 feet pole to create additional circuit ties to improve reliability, the new 45 feet pole will be install on the tree belt, west side of Middlesex Street approximately sixty one (61') feet from the center of Wilbraham Road and sixteen (16') feet from the center of Middlesex Street, all as substantially shown on a plan attached, referred to numbered #6239, which is incorporated herein by reference and to lay and maintain underground lateral, cables, and wires in the above public ways for the purpose of making connections with the pole as it may desire for distributing purposes, reports thereon as follows:

By virtue of Chapter 708 of the Acts of 1977 the Board of Public Works held the hearing on the above matter provided for in Section 22 of Chapter 166 of the General Laws. The hearing was held on August 29, 2016 at 5:00 P.M. at the corner of Wilbraham Road and Middlesex Street in Springfield. Three (3) members of the Board and one (1) persons interested in the matter were present. Of the latter, one (1) voted in favor of and no-one (0) voted against.

The Board finds the request necessary in order that the electrical utility company improves the reliability in the area.

After careful consideration, the Board recommends the petition be granted provided:

That due care for public safety is exercised during construction including but not limited to the use of a police officer(s) for traffic control if necessary.

That said construction would not unnecessarily interfere with the movement of vehicular or pedestrian traffic in the area.

That care be taken during said construction not to damage any underground services.

That the construction site be returned to the same condition as found or better.

Said company shall indemnify and save harmless against all damages, costs and expenses whatsoever to which the City may be subjected in consequence of the acts or neglect of said Company, its agents or servants, or in any manner arising from the rights and privileges granted it by the City.

In addition said company shall, before a public way is disturbed for the laying of its wire or conduit, execute its bond in the penal sum of Ten Thousand Dollars (\$10,000) conditioned for faithful performance of its duties under this permit.

Said company shall comply with the requirements of existing Ordinances and orders and comply with any changes in Ordinances and orders as may hereafter be adopted by the Mayor and Council governing the construction and maintenance of buried cable, conduits and wires.

That any sidewalks that are damaged or removed will be replaced in kind and in accordance with the City of Springfield's Standard Specifications.

That ramps for the handicapped will be provided if and where required by law and in conformance with the Rules and Regulations of the Massachusetts Architectural Barrier Board.

That any curbing that is disturbed during construction will be reset to the established street grade using proper construction procedures.

That due care be exercised not to unnecessarily damage any public shade trees located within the construction area.

That the Springfield Water and Sewer Commission be notified before construction begins. All installations of adjacent utilities must be a minimum of 4 feet from the existing water and/or sewer main, edge to edge of pipe.

That all conditions set forth in the respective order are complied with.

_____))
 _____)) BOARD OF PUBLIC WORKS
 _____))

HISTORY:**09/12/16** City Council**REFER TO COMMITTEE****Next: 10/03/16****RESULT: RECEIVED PASSED**

**DEPARTMENTAL AND INTERDEPARTMENTAL CORRESPONDENCES
CITY OF SPRINGFIELD
MASSACHUSETTS**

DATE: August 16, 2016

TO: Anthony I Wilson, Esq.
City Clerk

FROM: Hector Velez, DPW Engineer
on behalf of BPW

DEPARTMENT: City Clerk Office

SUBJECT: Board's agenda for:
August 29, 2016

NOTICE OF MEETING

Monday, August 29, 2016 – At the corner of Wilbraham Road and Middlesex Street in Springfield, MA at 5:00 P.M

Minutes of Previous Meeting
Communications
Old Business

EVERESOURCE

New Business: MIDDLESEX ST.

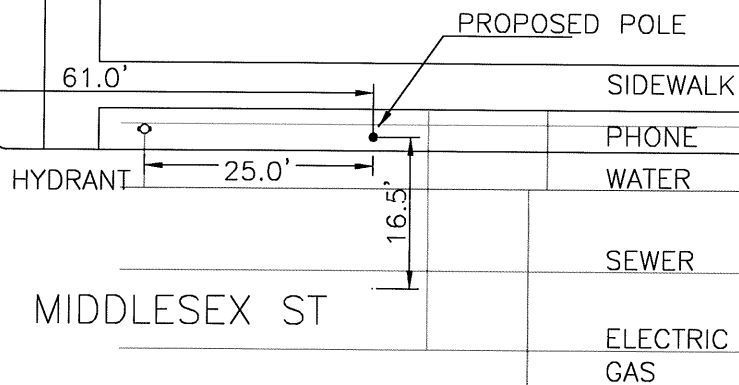
HEARING RE: To install new 45 feet pole to create additional circuit ties to improve reliability.

Attachment: 8-29-2016 notices of meeting #6239 (3637 : Middlesex Street (EVERSOURCE))

EVERSOURCE ENERGY

TOWN
SPRINGFIELDSTREET
MIDDLESEX ST

WILBRAHAM RD



PURPOSE AND DESCRIPTION

INSTALL NEW 45' POLE
TO CREATE ADDITIONAL CIRCUIT TIES
TO IMPROVE RELIABILITY

LEGEND

- | | | |
|--|-------------------------|-----------|
| ● PROPOSED JOINT POLE | ⊕ HANDHOLE | □ MANHOLE |
| ● PROPOSED EVERSOURCE POLE | ■ PAD MOUNT TRANSFORMER | ⬢ HEXHOLE |
| ⊗ EXISTING JOINT POLE | | |
| ○ EXISTING EVERSOURCE POLE | | |
| ⊗ EXISTING EVERSOURCE POLE TO BE JOINT | | |
| ⊗ EXISTING FOREIGN POLE TO BE JOINT | | |

DRAWN BY

ROB DAVIS

W.O.#

6S621367

DISTANCES ARE APPROXIMATE

1" = 20'

PETITION NO.

#6239

WR#2759483

Attachment: plan Middlesex St. (3637 : Middlesex Street (EVERSOURCE))



City Council
36 Court Street
Springfield, MA 01103

ADOPTED

PETITION (ID # 3669)

Meeting: 10/03/16 07:00 PM
Department: Department of Public Works
Category: General
Prepared By: Hector Velez
Initiator: Hector Velez
Sponsors: Mayor Domenic J. Sarno
DOC ID: 3669

PVTA Frank B. Murry

CITY OF SPRINGFIELD, MASSACHUSETTS

Date: August 16, 2016

TO THE MAYOR AND CITY COUNCIL OF THE CITY OF SPRINGFIELD:

The Board of Public Works, to which was referred the petition of PVTA dated August 29, 2016 to install overhead electrical bus charging device on the west side of Frank B. Murry Street (Union Station Project) , starting from 500 kw charger and docking control box with electrical ductbank to electrical pole and extending ten feet from the pole westerly direction to the charging device to be located 12 feet on top of the public way , all as substantially shown on a plan C-1 and C-2 from Reinhardt Associates dated 8/5/ which is incorporated herein by reference and to lay and maintain underground laterals, cables and wires in the above public ways for the purpose of making connections with electrical bus charging device, reports thereon as follows:

By virtue of Chapter 708 of the Acts of 1977 the Board of Public Works held the hearing on the above matter provided for in Section 22 of Chapter 166 of the General Laws. The hearing was held on September 12, 2016 at 5:00 P.M. at Frank B. Murry Street Springfield, MA. Three (3) members of the Board and three (3) persons interested in the matter were present. Of the latter, three (3) voted in favor of and no-one (0) voted against.

The Board finds the request necessary in order to Pioneer Valley Transit Authority can charge the electric buses.

After careful consideration, the Board recommends the petition be granted provided:

That due care for public safety is exercised during construction including but not limited to the use of a police officer(s) for traffic control if necessary.

That said construction would not unnecessarily interfere with the movement of vehicular or pedestrian traffic in the area.

That care be taken during said construction not to damage any underground services.

That the construction site be returned to the same condition as found or better.

Said company shall indemnify and save harmless against all damages, costs and expenses whatsoever to which the City may be subjected in consequence of the acts or neglect of said Company, its agents or servants, or in any manner arising from the rights and privileges granted it by the City.

In addition said company shall, before a public way is disturbed for the laying of its wire or conduit, execute its bond in the penal sum of Ten Thousand Dollars (\$10,000) conditioned for faithful performance of its duties under this permit.

Said company shall comply with the requirements of existing Ordinances and orders and comply with any changes in Ordinances and orders as may hereafter be adopted by the Mayor and Council governing the construction and maintenance of buried cable, conduits and wires.

That any sidewalks that are damaged or removed will be replaced in kind and in accordance with the City of Springfield's Standard Specifications.

That ramps for the handicapped will be provided if and where required by law and in conformance with the Rules and Regulations of the Massachusetts Architectural Barrier Board.

That any curbing that is disturbed during construction will be reset to the established street grade using proper construction procedures.

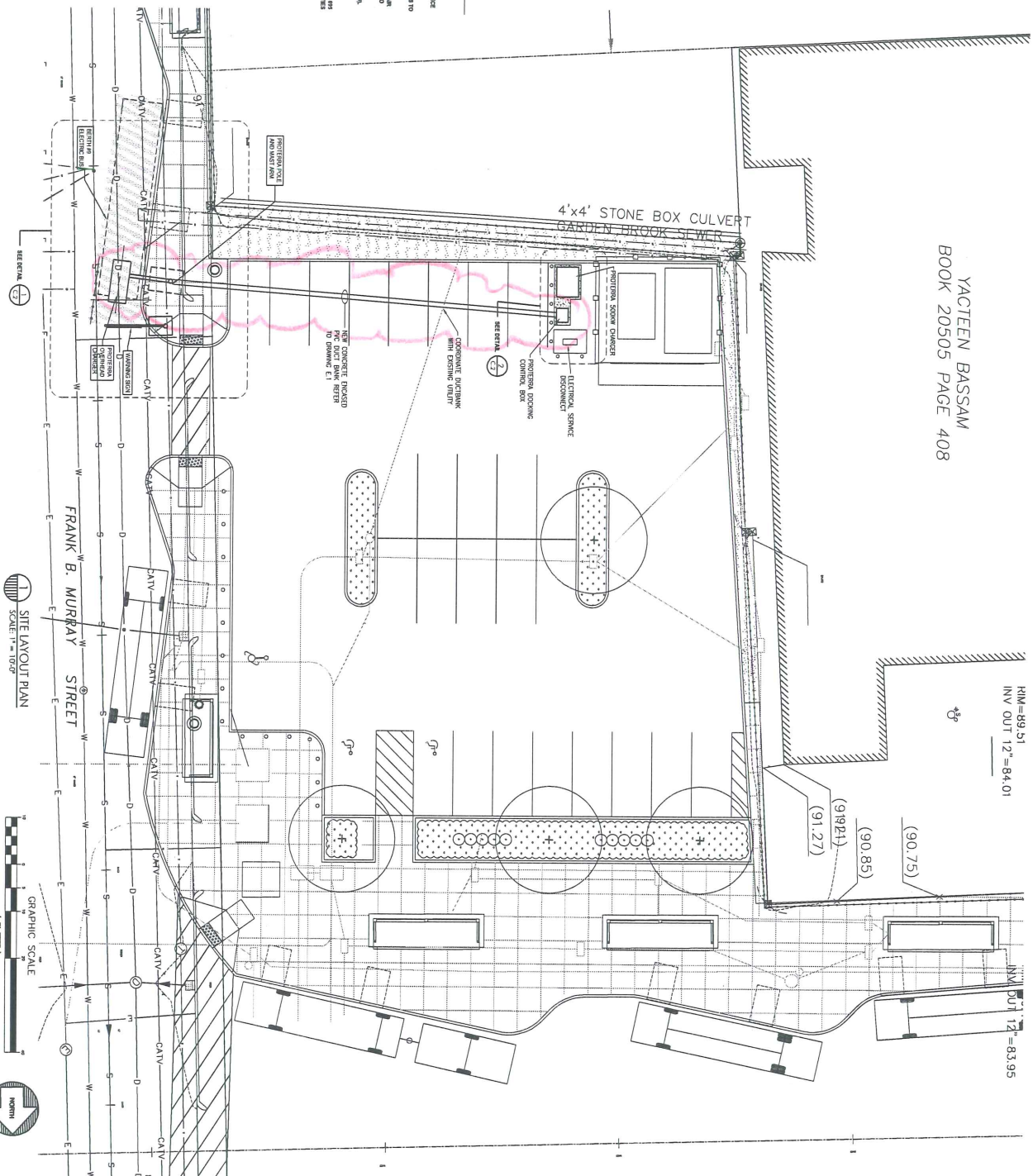
That due care be exercised not to unnecessarily damage any public shade trees located within the construction area.

That the Springfield Water and Sewer Commission be notified before construction begins. All installations of adjacent utilities must be a minimum of 4 feet from the existing water and/or sewer main, edge to edge of pipe.

That all conditions set forth in the respective order are complied with.

_____)
 _____) BOARD OF PUBLIC WORKS
 _____)

RESULT:	RECEIVED PASSED
----------------	------------------------

[illegible]

YACTEEN BASSAM
BOOK 20505 PAGE 408

RIM=89.51
INV OUT 12"=84.01

$$\text{put } 12'' = 83.95$$


REINHARDT
ASSOCIATES

- ARCHITECTS
- ENGINEERS
- PLANNERS
- PROJECT MANAGEMENT

430 MAIN STREET
AGAWAM, MA 01001
TEL. 413.786.5000
FAX. 413.786.6059

STAMP

SCALE:	1"=10'
PROJ. NO:	16-2332
DRAWN:	KT
CHECKED:	RN/AMC
DATE:	08-25-2016
FILE NAME:	2335-C1 SITE LAYOUT
REV:	08-25-2016
REV:	

PROJECT TITLE:
PROPOSED
ELECTRIC
BUS
CHARGING
STATION
UNION STATION
SPRINGFIELD, MA

DRAWING:
SITE
LAYOUT
PLAN

SHEET

5

PETITION TO INSTALL AND MAINTAIN STEEL POLE, MAST ARM,
OVERHEAD ELECTRIC BUS CHARGING DEVICE, AND SUBSURFACE ELECTRICAL DUCT BANK

TO THE CITY OF SPRINGFIELD, MASSACHUSETTS:

PIONEER VALLEY TRANSIT AUTHORITY prays that, as provided by the law, it may be granted permission to install and maintain 2 steel poles, 2 steel mast arms, 1 overhead electric bus charging device, 2 subsurface concrete foundations, 1 subsurface concrete electrical duct bank facilities, 1 overhead safety warning sign, 6 travel lane delineation markers, to be within the public way hereinafter named, consisting of above ground and underground facilities substantially as shown upon the plan filed herewith and made a part hereof, together with all other necessary, wires, cables, devices, equipment, switches, protective devices, and concrete, as indicated by said plan marked Drawing C.2 subject to such deviations as may be required for technical, engineering, or other purposes. The following is the public way above referred to:

Above Ground Location: 1.) To install and maintain a concrete mounting base, steel pole, steel mast arm, and overhead electric bus charging device, including associated cabling and wiring, on Frank B. Murray Street, and, to install and maintain a concrete mounting base, steel pole, steel mast arm, and warning sign on Frank B. Murray Street, and, to install flexible safety lane delineation markers and painted yellow diagonal stripes on the roadway surface of Bus Berth #9 where the electric bus shall be parked, per the attached Drawing C.2.

Underground Location: 2.) To trench, install, and maintain a concrete foundation for the overhead electric bus charger with steel pole and a concrete electrical ductbank with associated cabling and wiring on Frank B. Murray Street, with ductbank extending for a total distance of ten (10) feet from the pole location in a westerly direction, to cross over the adjacent property line of land owned by the Springfield Redevelopment Authority, and, to install and maintain a concrete foundation and steel pole for the overhead safety warning sign per the attached drawing numbered C.2.

Project Location: 3) The immediate site area is currently under construction for another larger project involving the Springfield Redevelopment Authority. The Petitioner's Project is located on Frank B. Murray Street, midway between Main Street and Dwight Street, on the north side of Frank B. Murray Street, in the public right of way. The location is currently marked by a mound of excavated soil on Frank B. Murray Street near the construction office trailer on the site. The Petitioner has performed exploratory excavation thus far in an effort to reveal existing utilities at the proposed bus charger's foundation. The exploratory excavation is 2 feet deep and marked with a wooden spike and florescent orange paint on the ground surface outlining the rectangular foundation. The Petitioner has not performed any exploratory excavation for the warning sign and foundation.

Pioneer Valley Transit Authority

2808 Main Street, Springfield, MA

By:

Mary MacInnes
PVTA Administrator

Dated the 29th day of August, 2016

A true copy of a petition referred to the Board of Public Works on:

August 31, 2016

Attest:

Anthony I Wilson

Anthony I Wilson, Esquire

**DEPARTMENTAL AND INTERDEPARTMENTAL CORRESPONDENCES
CITY OF SPRINGFIELD
MASSACHUSETTS**

DATE: August 31, 2016

TO: Anthony I Wilson, Esq.
City Clerk

FROM: Hector Velez, DPW Engineer
on behalf of BPW

DEPARTMENT: City Clerk Office

SUBJECT: Board's agenda for:
September 12, 2016

NOTICE OF MEETING

Monday, September 12, 2016 – At Union Station, Frank B. Murray Street, Springfield, MA at 5:00 P.M

Minutes of Previous Meeting
Communications
Old Business

PVTA

New Business:

Frank B. Murray Street

HEARING RE: To install electric bus charging device within the public way.

Attachment: 9-12-2016 notice PVTA (3669 : PVTA Frank B. Murry)



City Council
36 Court Street
Springfield, MA 01103

Meeting: 10/03/16 07:00 PM
Department: Department of Public Works
Category: General
Prepared By: Hector Velez
Initiator: Hector Velez
Sponsors: Mayor Domenic J. Sarno
DOC ID: 3670

TABLED

PETITION (ID # 3670)

Main Street (Mobilitie)

CITY OF SPRINGFIELD, MASSACHUSETTS

Date: September 27, 2016

TO THE MAYOR AND CITY COUNCIL OF THE CITY OF SPRINGFIELD:

The Board of Public Works, to which was referred the petition of Mobilitie dated August 28, 2016 to install a high-speed network antenna on Main Street. Forty five (45') feet network antenna will be install north side of Main Street, to be located on the sidewalk approximately one hundred and eighty (180') feet from Bridge Street southeasterly direction. The purpose of the high speed network antenna is to provide wireless service around the area, all as substantially shown on a plan attached, referred to BS90XS150B Dwight & Bridge Street, which is incorporated herein by reference and to lay and maintain underground laterals, cables and wires in the above public ways for the purpose of making connections with the pole as it may desire for distributing purposes, reports thereon as follows:

By virtue of Chapter 708 of the Acts of 1977 the Board of Public Works held the hearing on the above matter provided for in Section 22 of Chapter 166 of the General Laws. The hearing was held on September 26, 2016 at 5:30 P.M. at the corner of Bridge& Main Street Springfield, MA. Three (3) members of the Board and two (2) persons interested in the matter were present. Of the latter, two (2) voted in favor of and no-one (0) voted against.

The Board finds the request necessary in order to provide high speed wireless network service to the business around the area.

After careful consideration, the Board recommends the petition be granted provided:

That due care for public safety is exercised during construction including but not limited to the use of a police officer(s) for traffic control if necessary.

That said construction would not unnecessarily interfere with the movement of vehicular or pedestrian traffic in the area.

That care be taken during said construction not to damage any underground services.

That the construction site be returned to the same condition as found or better.

Said company shall indemnify and save harmless against all damages, costs and expenses whatsoever to which the City may be subjected in consequence of the acts or neglect of said Company, its agents or servants, or in any manner arising from the rights and privileges granted it by the City.

In addition said company shall, before a public way is disturbed for the laying of its wire or conduit, execute its bond in the penal sum of Ten Thousand Dollars (\$10,000) conditioned for faithful performance of its duties under this permit.

Said company shall comply with the requirements of existing Ordinances and orders and comply with any changes in Ordinances and orders as may hereafter be adopted by the Mayor and Council governing the construction and maintenance of buried cable, conduits and wires.

That any sidewalks that are damaged or removed will be replaced in kind and in accordance with the City of Springfield's Standard Specifications.

That ramps for the handicapped will be provided if and where required by law and in conformance with the Rules and Regulations of the Massachusetts Architectural Barrier Board.

That any curbing that is disturbed during construction will be reset to the established street grade using proper construction procedures.

That due care be exercised not to unnecessarily damage any public shade trees located within the construction area.

That the Springfield Water and Sewer Commission be notified before construction begins. All installations of adjacent utilities must be a minimum of 4 feet from the existing water and/or sewer main, edge to edge of pipe.

That all conditions set forth in the respective order are complied with.

_____)
 _____) BOARD OF PUBLIC WORKS
 _____)

RESULT: REFER TO COMMITTEE**Next: 10/17/2016 7:00 PM**

**DEPARTMENTAL AND INTERDEPARTMENTAL CORRESPONDENCES
CITY OF SPRINGFIELD
MASSACHUSETTS**

DATE: September 12, 2016

TO: Anthony I Wilson, Esq.
City Clerk

FROM: Hector Velez, DPW Engineer
on behalf of BPW

DEPARTMENT: City Clerk Office

SUBJECT: Board's agenda for:
September 26, 2016

NOTICE OF MEETING

Monday, September 26, 2016

5:00 P.M., at the corner of Dwight Street & Taylor Street, Springfield, MA.

5:15 P.M., at the corner of Dwight Street & Bridge Street (Parking lot of Center Stage),
Springfield, MA.

5:30 P.M., at the corner of Bridge & Main Street, Springfield, MA.

5:45 P.M., at Union Station, Frank B. Murray Street, Springfield, MA.

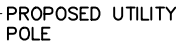
Minutes of Previous Meeting
Communications
Old Business

MOBILITIE

New Business: **Taylor Street, Bridge Street, Frank B. Murray.**

HEARING RE: To install new utility pole to
Provide high-speed network.

Attachment: 9-26-2016 notice MOBILITIE (3670 : Main Street (Mobilitie))



1 EXHIBIT PHOTO

SCALE: NTS



2	AERIAL SITE LOCATION
---	-----------------------------

SCALE: NTS



THIS SITE PLAN WAS GENERATED WITHOUT THE USE OF A SURVEY. PROPERTY LINES, POWER & TELCO UTILITY POINT CONNECTION/ROUTES AND EASEMENTS SHOWN ON THESE PLANS ARE ESTIMATED. ALL ITEMS AND DIMENSIONS SHOULD BE VERIFIED IN THE FIELD.



PROJECT NO:	9MAB001636
DRAWN BY:	RC
CHECKED BY:	SJB

A	06-14-16	FOR CLIENT REVIEW

KMB DESIGN GROUP, LLC

Stephen A. Bray
PROFESSIONAL ENGINEER

PRELIMINARY
NOT FOR CONSTRUCTION

MA LICENSE: 47770

6/14/16

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UNLESS THEY ARE ACTING UNDER THE DIRECTION OF
A LICENSED PROFESSIONAL ENGINEER, TO ALTER
THIS DOCUMENT

BS90XSI50B

MAIN ST & BRIDGE ST
SPRINGFIELD, MA 01103

UTILITY POLE

SHEET TITLE

SITE PLAN & EXHIBIT PHOTO

SHEET NUMBER

1.0

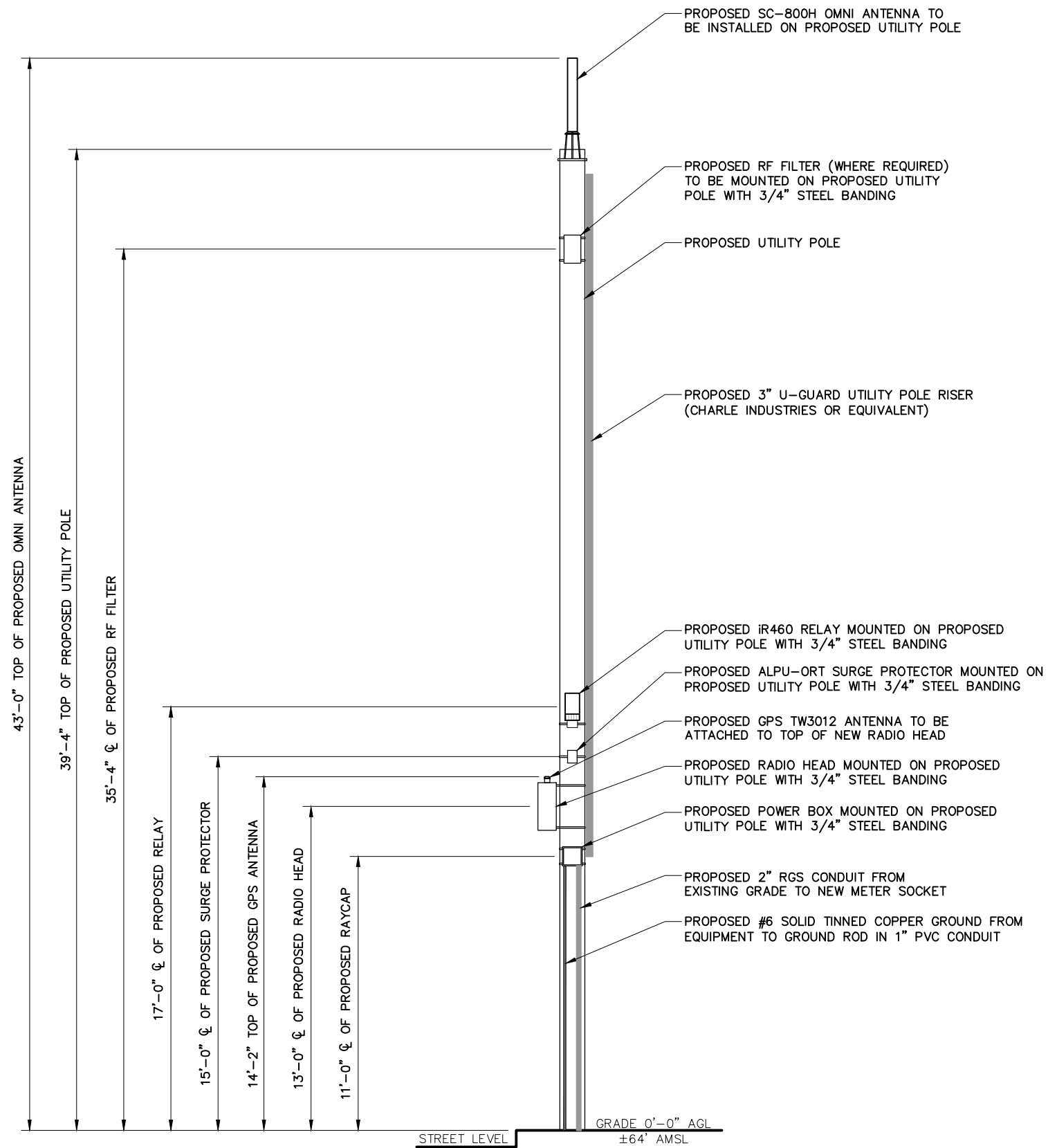
3	ENLARGED SITE PLAN
---	---------------------------

11x17 SCALE: 1/32" = 1'-0"

24x36 SCALE: 1/16" = 1'-0"

NO. 1.
KMB DESIGN GROUP, LLC HAS NOT PERFORMED A FULL
STRUCTURAL ANALYSIS ON THE POLE AND MOUNTS AS
PART OF THIS SUBMITTAL. STRUCTURAL ANALYSIS
REPORT TO BE PROVIDED UNDER SEPARATE COVER AND
OBTAINED BY CONTRACTOR PRIOR TO CONSTRUCTION.

Attachment: BS90XSIS0B_CONSTDWGS90_20160614_A1P (3670 : Main Street (Mobilitie))



PROJECT NO:	9MAB001636
DRAWN BY:	RC
CHECKED BY:	SJB

A	06-14-16	FOR CLIENT REVIEW

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BS90XSI50B

MAIN ST & BRIDGE ST
SPRINGFIELD, MA 01103

UTILITY POLE

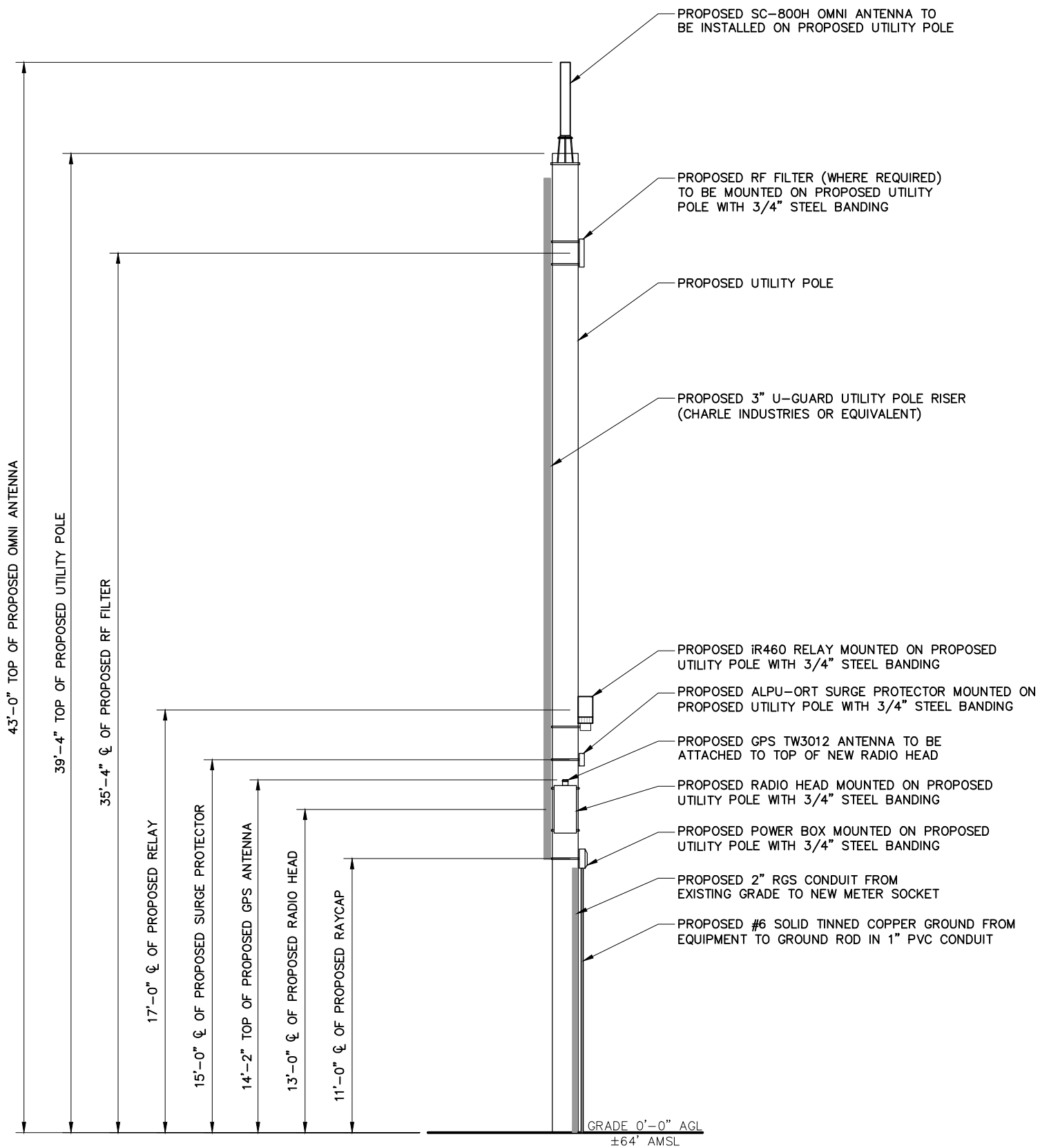
SHEET TITLE

POLE ELEVATION

SHEET NUMBER
2.0

NO. 1. KMB DESIGN GROUP, LLC HAS NOT PERFORMED A FULL STRUCTURAL ANALYSIS ON THE POLE AND MOUNTS AS PART OF THIS SUBMITTAL. STRUCTURAL ANALYSIS REPORT TO BE PROVIDED UNDER SEPARATE COVER AND OBTAINED BY CONTRACTOR PRIOR TO CONSTRUCTION.

Attachment: BS90XSI50B_CONSTDWS90_20160614_A1P (3670 : Main Street (Mobilitie))



PROJECT NO:	9MAB001636
DRAWN BY:	RC
CHECKED BY:	SJB

A	06-14-16	FOR CLIENT REVIEW
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BS90XSI50B

MAIN ST & BRIDGE ST
SPRINGFIELD, MA 01103

UTILITY POLE

SHEET TITLE

POLE ELEVATION

SHEET NUMBER

2.1



PROJECT NO: 9MAB001636

DRAWN BY: RC

CHECKED BY: SJB

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MAIN ST & BRIDGE ST
SPRINGFIELD, MA 01103

UTILITY POLE

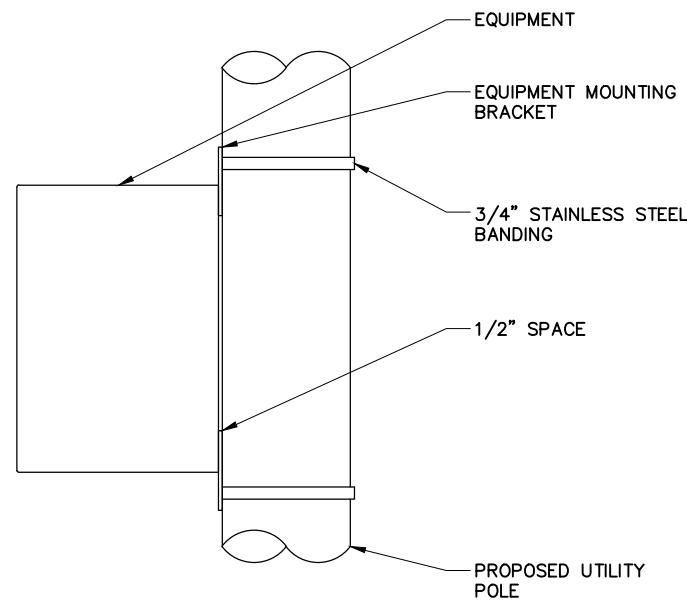
SHEET TITLE

ANTENNA & EQUIPMENT
MOUNTING DETAILS

SHEET NUMBER

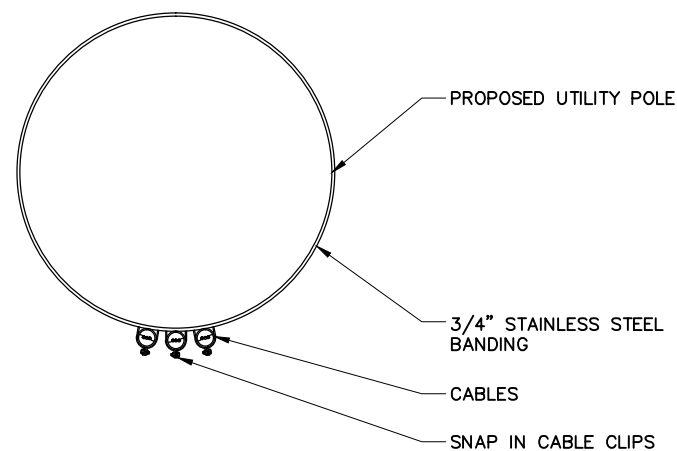
3.0

Attachment: BS90XSIS0B_CONSTDWGS90_20160614_A1P (3670 : Main Street (Mobilitie))



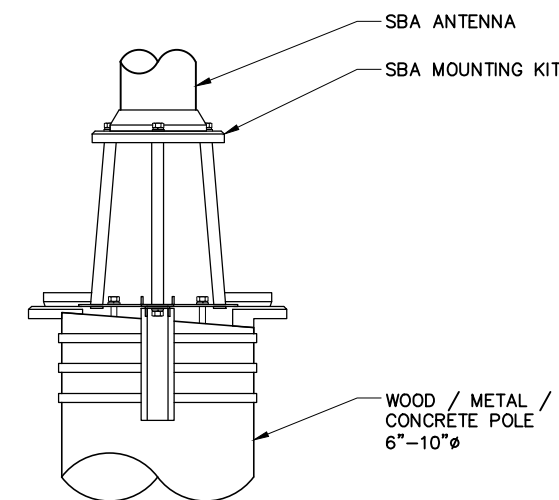
1	EQUIPMENT CONNECTION DETAIL
---	-----------------------------

SCALE: NTS



3	CABLE ROUTING DETAIL
---	----------------------

SCALE: NTS



2 ANTENNA MOUNTING DETAIL

SCALE: NTS



A	06-14-16	FOR CLIENT REVIEW
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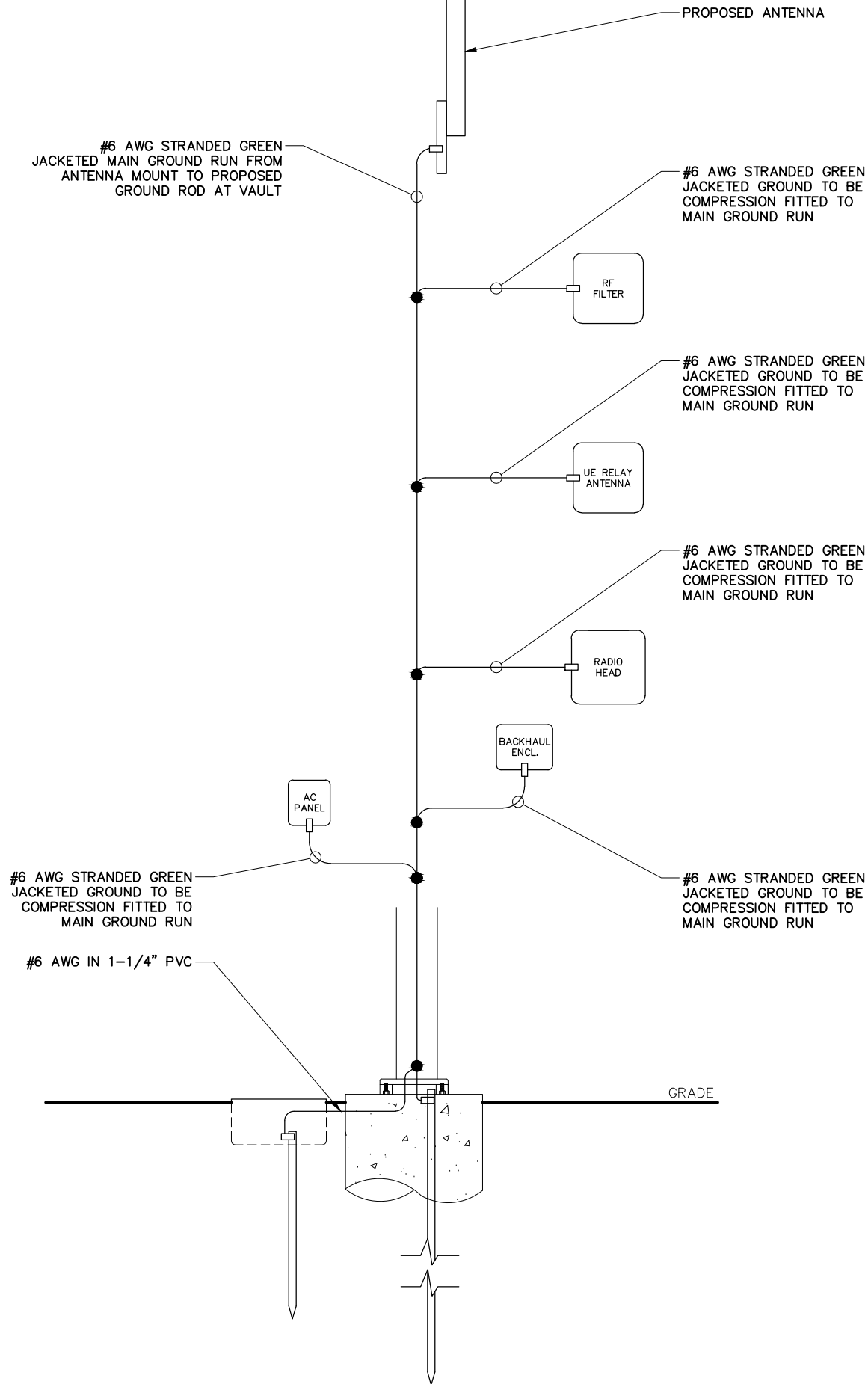
MAIN ST & BRIDGE ST
SPRINGFIELD, MA 01103

SHEET TITLE

GROUNDING DETAILS

SHEET NUMBER

5.0



LEGEND	
■	CADWELD CONNECTION
□	MECHANICAL CONNECTION
●	COMPRESSION CONNECTION

LEGEND

- CADWELD CONNECTION
- MECHANICAL CONNECTION
- COMPRESSION CONNECTION

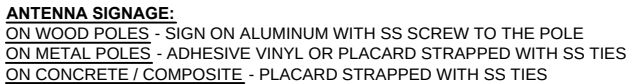
LEGEND

- CADWELD CONNECTION
- MECHANICAL CONNECTION
- COMPRESSION CONNECTION

LEGEND

- CADWELD CONNECTION
- MECHANICAL CONNECTION
- COMPRESSION CONNECTION

NOTE:
GROUNDING RISER FOR DIAGRAMMATIC
PURPOSES ONLY. SEE ELEVATION DRAWING
FOR EQUIPMENT AND ANTENNA LOCATIONS.



1	RF NOTICE SIGN DETAIL
---	-----------------------

SCALE: NTS



SHEET NUMBER

6.0

TRAFFI

10. All excavated areas within or adjacent to the roadway shall be backfilled and placed on a minimum 6h:1v slope prior to the end of each work day. Other excavated areas within the clear zone are to be either backfilled or precast concrete curb construction barrier set temporarily in place to shield vehicular and pedestrian traffic.
11. Where required, the contractor shall make provisions for maintaining pedestrian crossing locations and type, in accordance with all applicable codes and osha requirements.
12. Construction zone speed limit will be determined by the regional traffic engineer at the time of or during construction, as requested by the resident engineer.
13. Bituminous concrete placed during the various construction stages shall be transitioned on a minimum 20h:1v slope to meet the adjacent existing grade at the longitudinal and transverse limits of the stage construction areas unless otherwise noted on the stage construction plans.
14. All excavated areas within or adjacent to the roadway shall be backfilled and placed on at least 6h:1v slope before the end of each work day. Other excavated area within the clear zone shall be backfilled.
15. Cones may be substituted for drums and installed upon the approval of the Engineer.
16. There shall be no workers, equipment, or other vehicles in the buffer space or the roll ahead space.
17. Driveways and/or side streets entering the roadway after the first advance warning sign shall be provided with at least one WZO-IF sign (road work ahead) as a minimum.
18. Moving work areas in a lane closure require a trailer mounted illuminated flashing arrow to remain at the end of the taper, the traffic control truck with mounted crash cushion that shall move with the work areas to keep a 70 foot max buffer in advance of each work area.

1	TRAFFIC CONTROL NOTES
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SCALE: NTS

SYMBOLS



Work Area



Channelizing Device



Work Zone Sign



Flagger



Automated Flagger Assistance Devices (AFAD), With Gate



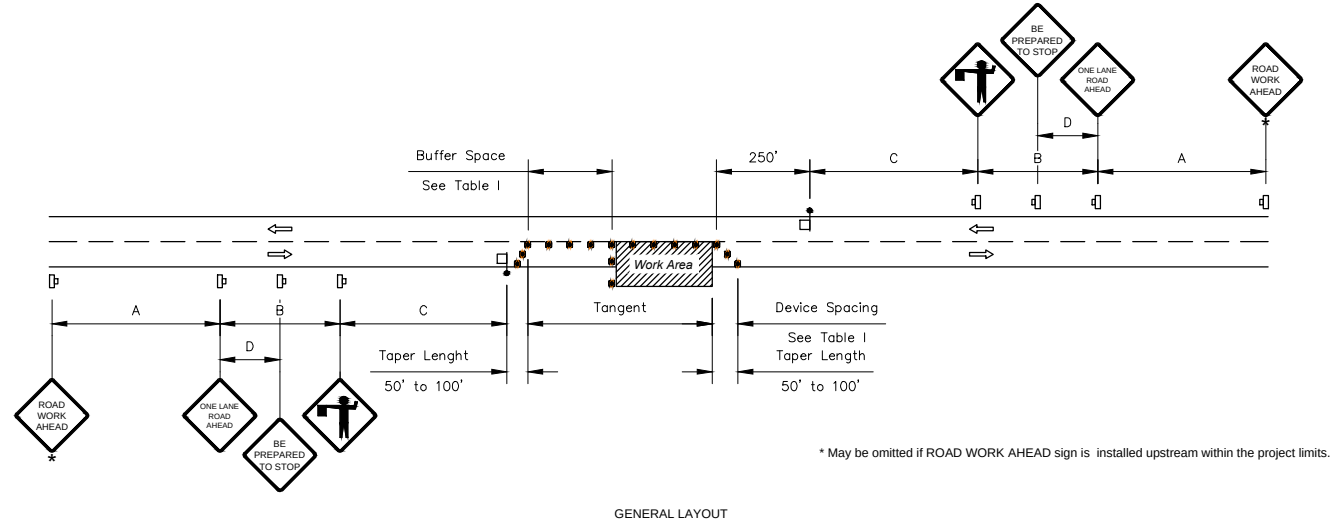
Lane Identification + Direction of Traffic

For single lane traffic flow see General Note 12

TABLE I

Posted Speed	DEVICE SPACING				Distance Between Signs				Buffer Space
	Maximum Spacing of Cones or tubular Markers		Maximum Spacing of Type I or Type II Barricades/Panels/Drums						
	On a Taper	On a Tangent	On a Taper	On a Tangent	A	B	C	D	
25	20'	50'	20'	50'	200'	200'	200'	100'	155'
30	20'	50'	20'	50'	200'	200'	200'	100'	200'
35	20'	50'	20'	50'	200'	200'	200'	100'	250'
40	20'	50'	20'	50'	200'	200'	200'	100'	305'
45	20'	50'	20'	50'	350'	350'	350'	175'	360'
50	20'	50'	20'	100'	500'	500'	500'	250'	425'
55	20'	50'	20'	100'	2640'	1500'	1000'	500'	495'
60	20'	50'	20'	100'	2640'	1500'	1000'	500'	570'
65	20'	50'	20'	100'	2640'	1500'	1000'	500'	645'
70	20'	50'	20'	100'	2640'	1500'	1000'	500'	730'
75	20'	50'	20'	100'	2640'	1500'	1000'	500'	820'

CONDITIONS - Where any vehicle, equipment, workers or their activities encroach the area between the centerline and a line 2' outside the edge of travel way.



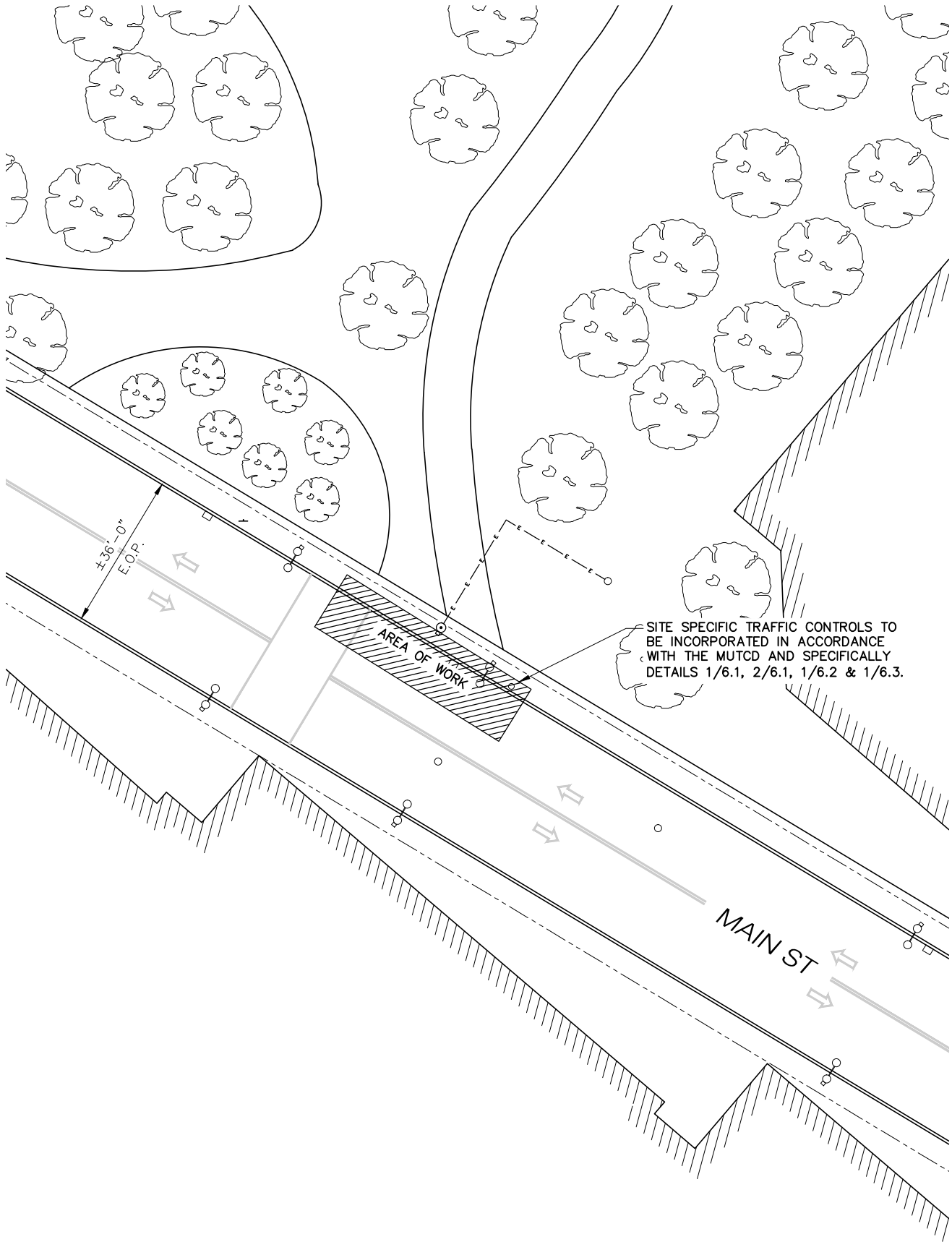
General Notes:

1. Special Conditions may be required in accordance with these notes and the following sheets.
2. If the Work Area encroaches on the Centerline, use the Layout for Temporary Lane Shift to Shoulder on Sheet 2 only if the Existing Paved Shoulder width is sufficient to provide for an 11' lane between the Work Area and the Edge of Existing Paved Shoulder. Reduce the posted speed when appropriate.
3. Temporary Raised Rumble Strips:
- a. Use when both of the following conditions are met concurrently:
 - i. Existing Posted Speed is 50 mph or greater;
 - ii. Work duration is greater than 60 minutes.
 - b. Use a consistent Strip color throughout the work zone.
 - c. Place each Rumble Strip Set transversely across the lane at locations shown.
 - d. Use Option 1 or Option 2 as shown on Sheet 2. Use only one option throughout work zone.
4. Additional one-way control may be provided by the following means:
- a. Flag-carrying vehicle;
 - b. Official vehicle;
 - c. Pilot vehicles;
 - d. Traffic signals.
- When flaggers are the sole means of one-way control, the flaggers must be in sight of each other or in direct communication at all times.
5. When a side road intersects the highway within the TTC zone, place additional TTC devices in accordance with other applicable MUTCD guidelines.
6. The two channelizing devices directly in front of the work area may be omitted provided vehicles in the work area have high-intensity rotating, flashing, oscillating, or strobe lights operating.
7. When Buffer Space cannot be attained due to geometric constraints, use the greatest attainable length, not less than 200 ft.
8. Railroad Crossings:
- a. If an active railroad crossing is located closer to the Work Area than the queue length plus 300 feet, extend the Buffer Space as shown on Sheet 2.
 - b. If the queuing of vehicles across an active railroad crossing cannot be avoided, provide a uniformed traffic control officer or flagger at the highway-rail grade crossing to prevent vehicles from stopping within the highway-rail grade crossing, even if automatic train warning devices are in place.
9. ROAD WORK AHEAD and the BE PREPARED TO STOP signs may be omitted if all of the following conditions are met:
- a. Work operations are 60 minutes or less.
 - b. Speed limit is 45 mph or less.
 - c. There are no sight obstructions to vehicles approaching the work area for a distance equal to the Buffer Space shown in Table 1.
 - d. Vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.
 - e. Volume and complexity of the roadway has been considered.
 - f. If a railroad crossing is present, vehicles will not queue across rail tracks.
 - g. AFADs are not in use.
10. For general TCZ requirements and additional information, refer to MUTCD.
11. Automated Flagger Assistance Devices (AFADs) may be used in accordance with the Notes on Sheet 3.
12. For single lane traffic flow, the contractor shall utilize the general layout detailed above and shall comply with the local highway authority having jurisdiction to ensure that sufficient clearance is provided to allow vehicles to pass safely. Contractor shall notify the Engineer if a road closure is deemed necessary.

2 TWO LANE, TWO WAY, WORK WITHIN THE TRAVEL WAY

SCALE: NTS

Attachment: BS90XS150B_CONSTDWS90_20160614_A1P (3670 : Main Street (Mobilitie))



3 SITE SPECIFIC TRAFFIC CONTROL PLAN

11x17 SCALE: 1/32" = 1'-0"

24x36 SCALE: 1/16" = 1'-0"



PROJECT NO:	9MAB001636
DRAWN BY:	RC
CHECKED BY:	SJB

A	06-14-16	FOR CLIENT REVIEW

KMB DESIGN GROUP, LLC

Stephen A. Bray
PROFESSIONAL ENGINEER

PRELIMINARY
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MA LICENSE: 47770

6/14/16

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SPRINGFIELD, MA 01103

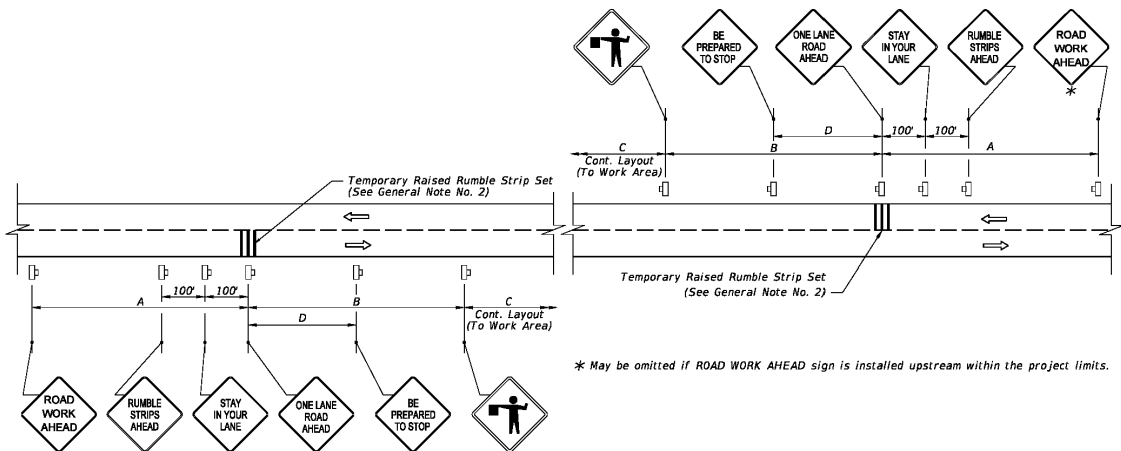
UTILITY POLE

SHEET TITLE

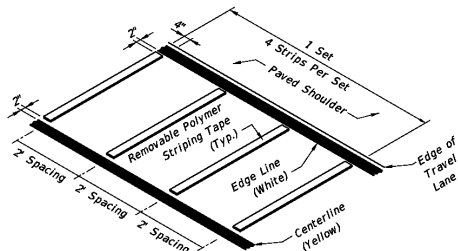
TRAFFIC CONTROL PLAN

SHEET NUMBER

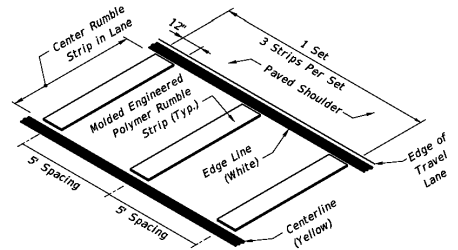
6.1



LAYOUT FOR TEMPORARY RAISED RUMBLE STRIPS WHEN REQUIRED WITH ADDITIONAL SIGNS

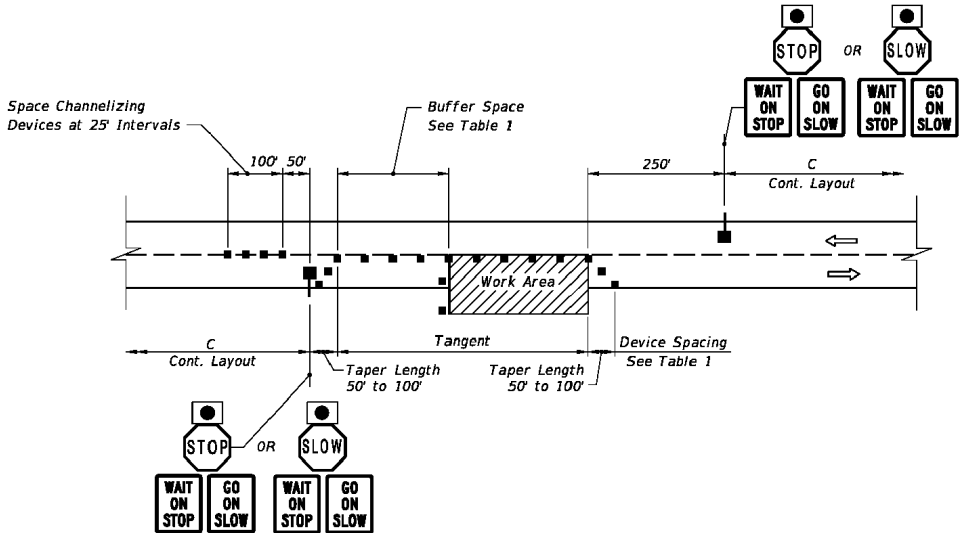


OPTION 1 - REMOVABLE POLYMER STRIPING TAPE RUMBLE STRIP SET

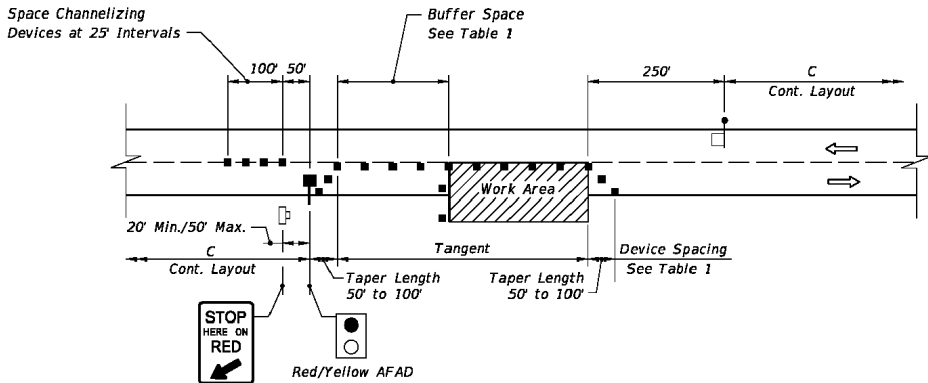


OPTION 2 - MOLDED ENGINEERED POLYMER RUMBLE STRIP SET

TEMPORARY RAISED RUMBLE STRIPS



LAYOUT FOR STOP/SLOW AFAD METHOD 1 - 2 AFAD's

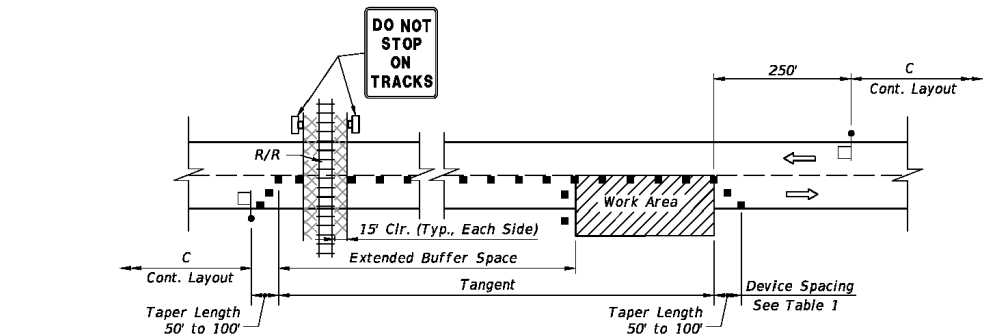


LAYOUT FOR RED/YELLOW AFAD METHOD 2 - 1 AFAD & FLAGGER

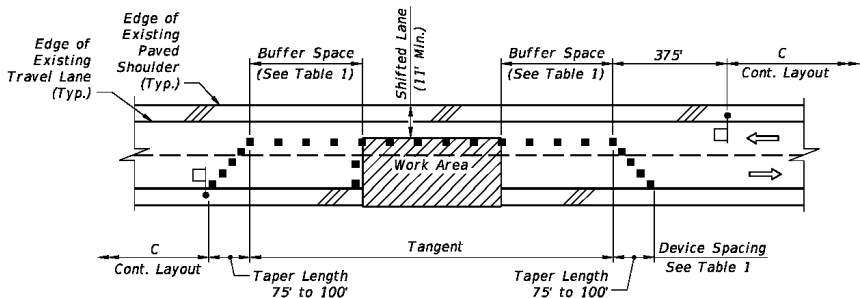
AUTOMATED FLAGGER ASSISTANCE DEVICES (AFADs)

AUTOMATED FLAGGER ASSISTANCE DEVICES NOTES

1. Illuminate the flagging station when the AFAD is used at nighttime.
2. When the AFAD is not in use, remove or cover signs and move AFAD device outside the clear zone or shield it with a barrier or crash cushion.
3. Only qualified flaggers who have been trained in the operation of the AFAD may operate the AFAD. When in use, each AFAD must be in view of and attended at all times by the flagger operating the device. Use two flaggers and one of the following methods in the deployment of AFAD's:
Method 1: Place an AFAD at each end of the temporary traffic control zone.
Method 2: Place an AFAD at one end of the temporary traffic control zone and a flagger at the opposite end.
4. A single flagger may simultaneously operate two AFAD's (Method 1) or may operate a single AFAD on one end of the temporary traffic control zone while being the flagger at the opposite end of the temporary traffic control zone (Method 2) if all four of the following conditions are present:
a. The flagger has an unobstructed view of the AFAD(s);
b. The flagger has an unobstructed view of approaching traffic in both directions;
c. For Method 1, the AFAD's are less than 800 ft apart. For Method 2, the AFAD and the flagger are less than 800 ft apart.
d. Two trained flaggers are available on-site to provide normal flagging operations should an AFAD malfunction.



LAYOUT FOR RAILROAD CROSSING BUFFER SPACE EXTENSION



LAYOUT FOR TEMPORARY LANE SHIFT TO SHOULDER WHEN WORK AREA ENCROACHES ON THE CENTERLINE

SPECIAL CONDITIONS

1 TEMPORARY RAISED RUMBLE STRIPS

SCALE: NTS

2 SPECIAL CONDITIONS

SCALE: NTS

3 AUTOMATED FLAGGER ASSISTANCE DEVICES (AFADs)

SCALE: NTS

PROJECT NO: 9MAB001636
DRAWN BY: RC
CHECKED BY: SJB

KMB DESIGN GROUP, LLC

Stephen A. Bray
PROFESSIONAL ENGINEER

PRELIMINARY
NOT FOR CONSTRUCTION

MA LICENSE: 47770 6/14/16
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BS90XSI50B

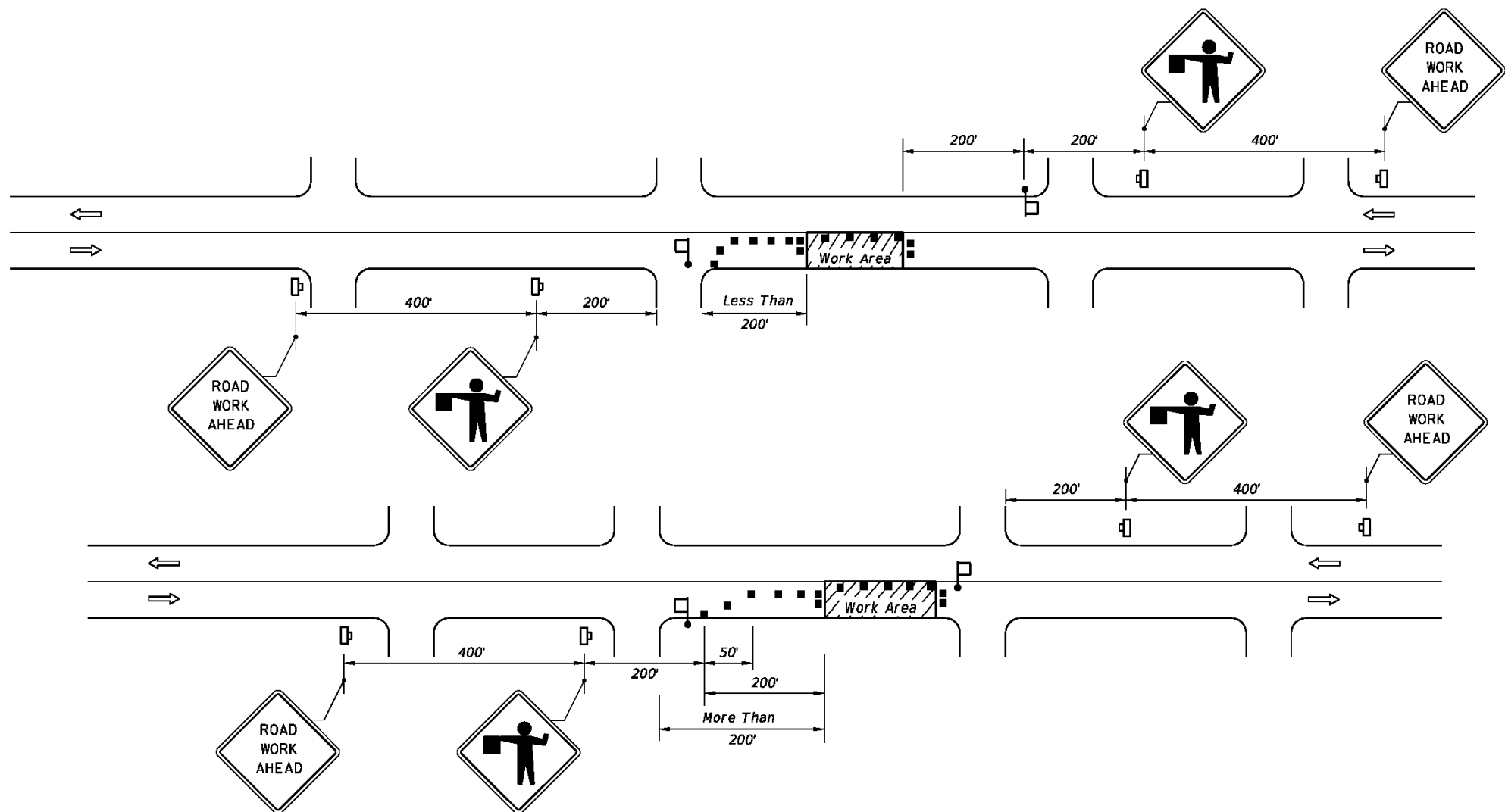
MAIN ST & BRIDGE ST
SPRINGFIELD, MA 01103

UTILITY POLE

SHEET TITLE
TRAFFIC CONTROL PLAN

SHEET NUMBER

6.2



WHERE ANY VEHICLE, EQUIPMENT, WORKERS
OR THEIR ACTIVITIES ENCROACH ON THE
PAVEMENT REQUIRING THE CLOSURE OF ONE
TRAFFIC LANE, FOR WORK AREAS LESS THAN
200' DOWNSTREAM FROM AN INTERSECTION
FOR A PERIOD OF MORE THAN 60 MINUTES.

WHERE ANY VEHICLE, EQUIPMENT, WORKERS
OR THEIR ACTIVITIES ENCR OACH ON THE
PAVEMENT REQUIRING THE CLOSURE OF ONE
TRAFFIC LANE, FOR WORK AREAS 200' OR
MORE DOWNSTREAM FROM AN INTERSECTION
FOR A PERIOD OF MORE THAN 60 MINUTES.

GENERAL NOTES

DURATION NOTES

SYMBOLS

- | | |
|---|---|
|  | <i>Work Area</i> |
|  | <i>Channelizing Device</i> |
|  | <i>Work Zone Sign</i> |
|  | <i>Flagger</i> |
|  | <i>Lane Identification + Direction of Traffic</i> |

1. Work operations shall be confined to one travel lane, leaving the opposing travel lane open to traffic.
2. When vehicles in a parking zone block the line of sight to TCZ signs or when TCZ signs encroach on a normal pedestrian walkway, the signs shall be post mounted and located in accordance with MUTCD.
3. If work area is confined to an outside auxiliary lane, the work area shall be barricaded and the FLAGGER signs replaced by ROAD WORK AHEAD signs. Flaggers are not required.
4. Flaggers shall be in sight of each other or in direct communication at all times.
5. The FLAGGER legend sign may be substituted for the symbol sign.
6. The maximum spacing between devices shall be no greater than 25.'
7. For general TCZ requirements and additional information, refer to MUTCD.
8. The two channelizing devices directly in front and directly at the end of the work area may be omitted provided vehicles in the work area have high-intensity flashing, oscillating, or strobe lights operating.
9. Use Temporary Raised Rumble Strips in accordance with Index 603. Placement of Rumble Strips and additional signs should begin at FLAGGER sign location.

1. **ROAD WORK AHEAD** sign may be omitted if all of the following conditions are met:
- a. Work operations are 60 minutes or less.
 - b. Speed is 45 mph or less.
 - c. No sight obstructions to vehicles approaching the work area for a distance of 600 feet.
 - d. Vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.
 - e. Volume and complexity of the roadway has been considered.

PROJECT NO:	9MAB001636
DRAWN BY:	RC
CHECKED BY:	SJB

A	06-14-16	FOR CLIENT REVIEW

KMB DESIGN GROUP, LLC

Stephen A. Bray
PROFESSIONAL ENGINEER

PRELIMINARY
NOT FOR CONSTRUCTION

MA LICENSE: 47770 6/14/16

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UNLESS THEY ARE ACTING UNDER THE DIRECTION OF
A LICENSED PROFESSIONAL ENGINEER, TO ALTER
THIS DOCUMENT

BS90XSI50B

MAIN ST & BRIDGE ST
SPRINGFIELD, MA 01103

UTILITY POLE

SHEET TITLE

TRAFFIC CONTROL PLAN

SHEET NUMBER

6.3

GLINLIAL

THE CONSTRUCTION DOCUMENT DRAWINGS ARE INTERRELATED. WHEN PERFORMING THE WORK, EACH CONTRACTOR MUST REFER TO ALL DRAWINGS. COORDINATION IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

GENERAL REQUIREMENTS

PART 1 - GENERAL

1. OBTAIN AND SUBMIT RELEASES ENABLING THE OWNER UNRESTRICTED USE OF THE WORK AND ACCESS TO SERVICES AND UTILITIES; INCLUDE OCCUPANCY PERMITS, OPERATING CERTIFICATES AND SIMILAR RELEASES.
2. SUBMIT RECORD DRAWINGS, DAMAGE OR SETTLEMENT SURVEY, PROPERTY SURVEY, AND SIMILAR FINAL RECORD INFORMATION.
3. COMPLETE FINAL CLEAN UP REQUIREMENT, INCLUDING TOUCH-UP PAINTING. TOUCH UP AND OTHERWISE REPAIR AND RESTORE MARRED EXPOSED FINISHES.

PART 2 – FINAL CLEANING

1. COMPLETE THE FOLLOWING CLEANING OPERATIONS BEFORE REQUESTING INSPECTION FOR CERTIFICATION ON COMPLETION.
 - A. CLEAN THE PROJECT SITE, YARD AND GROUNDS IN AREAS DISTURBED BY CONSTRUCTION ACTIVITIES, INCLUDING LANDSCAPE DEVELOPMENT AREA, OF RUBBISH, WASTE MATERIALS, LITTER AND FOREIGN SUBSTANCES. SWEEP PAVED AREAS BROOM CLEAN. REMOVE PETRO-CHEMICAL SPILLS, STAINS AND OTHER FOREIGN DEPOSITS. RAKE GROUNDS THAT ARE NEITHER PLANTED NOR PAVED, TO A SMOOTH EVEN-TEXTURED SURFACE.
 - B. REMOVE TOOLS, CONSTRUCTION EQUIPMENT, MACHINERY AND SURPLUS MATERIAL FROM THE SITE.
 - C. REMOVE SNOW AND ICE TO PROVIDE SAFE ACCESS TO THE SITE AND EQUIPMENT ENCLOSURE.
 - D. CLEAN EXPOSED EXTERIOR HARD SURFACED FINISHES TO A DIRT-FREE CONDITION, FREE OF STAINS, FILMS AND SIMILAR FOREIGN SUBSTANCES. AVOID DISTURBING NATURAL WEATHERING OF EXTERIOR SURFACES.
 - E. REMOVE DEBRIS FROM LIMITED ACCESS SPACES, INCLUDING HANDHOLES, MANHOLES, AND SIMILAR SPACES.
 - F. REMOVE LABELS THAT ARE NOT PERMANENT LABELS.
 - G. TOUCH UP AND OTHERWISE REPAIR AND RESTORE MARRED EXPOSED FINISHES AND SURFACES. REPLACE FINISHES AND SURFACES THAT CANNOT BE SATISFACTORILY REPAIRED OR RESTORED, OR THAT SHOW EVIDENCE OF REPAIR OR RESTORATION. DO NOT PAINT OVER "UL" AND SIMILAR LABELS, INCLUDING ELECTRICAL NAME PLATES.
 - H. LEAVE THE PROJECT CLEAN AND READY FOR OCCUPANCY.
 - I. DUST OFF ALL EQUIPMENT AND ITEMS WITHIN EQUIPMENT ENCLOSURE.
2. REMOVAL OF PROTECTION: REMOVE TEMPORARY PROTECTION AND FACILITIES INSTALLED DURING CONSTRUCTION TO PROTECT PREVIOUSLY COMPLETED INSTALLATIONS DURING THE REMAINDER OF THE CONSTRUCTION PERIOD.

SITE WORK

PART 1 – GENERAL

1. WORK INCLUDED: SEE SITE PLAN.
2. DESCRIPTIONS: IF APPLICABLE, LEASE AREA, AND UNDERGROUND UTILITY EASEMENTS ARE TO BE CONSTRUCTED TO PROVIDE A WELL DRAINED, EASILY MAINTAINED, EVEN SURFACE FOR USE AND ACCESS.
3. QUALITY ASSURANCE
 - A. APPLY SOIL STERILIZER IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS (AS NEEDED).
 - B. APPLY AND MAINTAIN GRASS SEED AS RECOMMENDED BY THE SEED PRODUCER (IF REQUIRED).
 - C. PLACE AND MAINTAIN VEGETATION LANDSCAPING, IF INCLUDED WITHIN THE CONTRACT, AS RECOMMENDED BY NURSERY INDUSTRY STANDARDS.
4. SEQUENCING
 - A. CONFIRM SURVEY STAKES AND SET ELEVATION STAKES PRIOR TO ANY CONSTRUCTION.
 - B. CONSTRUCT TEMPORARY CONSTRUCTION AREA. DESIGNATED AREA TO BE APPROVED BY CONSTRUCTION MANAGER AND LOCAL AUTHORITIES.
 - C. APPLY SOIL STERILIZER PRIOR TO PLACING BASE MATERIALS.
 - D. GRADE, SEED, FERTILIZE, AND MULCH ALL AREAS DISTURBED BY CONSTRUCTION (INCLUDING UNDERGROUND UTILITY EASEMENTS) IMMEDIATELY AFTER BRINGING LEASE AREA TO BASE COURSE ELEVATION, WATER TO ENSURE GROWTH.
 - E. AFTER APPLICATIONS OF FINAL SURFACES, APPLY SOIL STERILIZER TO STONE SURFACES.

5. SUBMITTALS
- A. BEFORE CONSTRUCTION: IF LANDSCAPING IS APPLICABLE TO THE CONTRACT, SUBMIT TWO COPIES OF THE LANDSCAPE PLAN ON NURSERY LETTERHEAD. IF A LANDSCAPE ALLOWANCE WAS INCLUDED IN THE CONTRACT, PROVIDE AN ITEMIZED LISTING OF PROPOSED COSTS ON NURSERY LETTERHEAD
- B. AFTER CONSTRUCTION
- MANUFACTURER'S DESCRIPTION OF PRODUCT AND WARRANTY STATEMENT ON SOIL STERILIZER.
 - MANUFACTURER'S DESCRIPTION OF PRODUCT ON GRASS SEED AND FERTILIZER.
 - LANDSCAPING WARRANTY STATEMENT

1. WARRANTY
- A. IN ADDITION TO THE WARRANTY ON ALL CONSTRUCTION COVERED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL REPAIR ALL DAMAGE AND RESTORE AREA AS CLOSE TO ORIGINAL CONDITION AS POSSIBLE AT SITE AND SURROUNDINGS.
 - B. SOIL STERILIZATION APPLICATION TO GUARANTEE VEGETATION FREE AREAS FOR ONE YEAR FROM DATE OF FINAL INSPECTION.
 - C. DISTURBED AREA WILL REFLECT GROWTH OF NEW GRASS COVER PRIOR TO FINAL INSPECTION.
 - D. LANDSCAPING, IF INCLUDED WITHIN THE SCOPE OF THE CONTRACT, WILL BE GUARANTEED FOR ONE YEAR FROM DATE OF FINAL INSPECTION.

PART 2 – PRODUCTS

1. MATERIALS
- A. SOIL STERILIZER SHALL BE EPA-REGISTERED, PRE-EMERGENCE LIQUID:
- | | |
|----------------|--------------------|
| TOTAL KILL | PHASAR CORPORATION |
| PRODUCT 910 | P.O. BOX 5123 |
| EPA 10292-7 | DEARBORN, MI 48128 |
| (313) 563-8000 | |
- AMBUSH HERBICIDE
- EPA REGISTERED
- (800) 526-4924
- FRAMAR INDUSTRIAL PRODUCTS
- 1435 MORRIS AVE.
- UNION, NJ 07083
- B. ROAD AND SITE MATERIALS SHALL CONFORM TO STATE AND LOCAL DOT SPECIFICATIONS FILL MATERIAL (UNLESS OTHERWISE NOTED) - ACCEPTABLE SELECT FILL SHALL BE IN ACCORDANCE WITH STATE DEPARTMENT OF HIGHWAY AND TRANSPORTATION STANDARD SPECIFICATIONS.
- C. SOIL STABILIZER FABRIC SHALL BE MIRAFI 500X.

PART 3 – EXECUTION

- INSPECTIONS: LOCAL BUILDING INSPECTORS SHALL BE NOTIFIED NO LESS THAN 48 HOURS IN ADVANCE OF CONCRETE POURS, UNLESS OTHERWISE SPECIFIED BY JURISDICTION
2. PREPARATION
- A. CLEAR BRUSH AND DEBRIS FROM LEASE AREA AND UNDERGROUND UTILITY EASEMENTS AS REQUIRED FOR CONSTRUCTION.
 - B. UNLESS OTHERWISE INSTRUCTED BY LESSEE, TRANSPORT ALL REMOVED TREES, BRUSH AND DEBRIS FROM THE PROPERTY TO AN AUTHORIZED LANDFILL.
 - C. PRIOR TO PLACEMENT OF FILL OR BASE MATERIALS, ROLL THE SOIL.
 - D. WHERE UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED, LINE THE AREAS WITH STABILIZER MAT PRIOR TO PLACEMENT OF FILL OR BASE MATERIAL.
3. INSTALLATION
- A. CLEAR EXCESS SPOILS, IF ANY, FROM JOB SITE AND DO NOT SPREAD BEYOND THE LIMITS OF PROJECT AREA UNLESS AUTHORIZED BY PROJECT MANAGER AND AGREED TO BY LANDOWNER.
 - B. PLACE FILL OR STONE IN SIX INCH (6") MAXIMUM LIFTS, AND COMPACT BEFORE PLACING NEXT LIFT.
 - C. APPLY SEED, FERTILIZER, AND STRAW COVER TO ALL OTHER DISTURBED AREAS, DITCHES, AND DRAINAGE SWALES, NOT OTHERWISE RIPRAPPED.
 - D. APPLY SEED AND FERTILIZER TO SURFACE CONDITIONS WHICH WILL ENCOURAGE ROOTING. RAKE AREAS TO BE SEED TO EVEN THE SURFACE AND LOOSEN THE SOIL.
 - E. SOW SEED IN TWO DIRECTIONS IN TWICE THE QUANTITY RECOMMENDED BY THE SEED PRODUCER.
 - F. ENSURE GROWTH OF SEEDED AND LANDSCAPED AREA, BY WATERING, UP TO THE POINT OF RELEASE FROM THE CONTRACT. CONTINUE TO REWORK THE BARE AREAS UNTIL COMPLETE COVERAGE IS OBTAINED.
4. FIELD QUALITY CONTROL: COMPACT SOILS TO MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D-1557. AREAS OF SETTLEMENT WILL BE EXCAVATED AND REFILLED AT CONTRACTOR'S EXPENSE. INDICATE PERCENTAGE OF COMPACTION ACHIEVED ON AS-BUILT DRAWINGS.
5. PROTECTION
- A. PROTECT SEEDED AREAS FROM EROSION BY SPREADING STRAW TO A UNIFORM LOOSE DEPTH OF 1-2 INCHES, STAKE AND TIE DOWN AS REQUIRED. USE OF EROSION CONTROL MESH OR MULCH NET WILL BE AN ACCEPTABLE ALTERNATE.
 - B. PROTECT ALL EXPOSED AREAS AGAINST WASHOUTS AND SOIL EROSION. PLACE STRAW BALES AT THE INLET APPROACH TO ALL NEW OR EXISTING CULVERTS. WHERE THE SITE OR ROAD AREAS HAVE BEEN ELEVATED IMMEDIATELY ADJACENT TO THE RAIL LINE, STAKE EROSION CONTROL FABRIC FULL LENGTH IN THE SWALE TO PREVENT CONTAMINATION OF THE RAIL BALLAST. ALL EROSION CONTROL METHODS SHALL CONFORM TO APPLICABLE BUILDING CODE REQUIREMENTS.



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BS90XSI50B

MAIN ST & BRIDGE ST
SPRINGFIELD, MA 01103

UTILITY POLE

SHEET TITLE
GENERAL NOTES

SHEET NUMBER
GN-1

ELECTRICAL

1. CONTRACTOR SHALL REVIEW THE CONTRACT DOCUMENTS PRIOR TO ORDERING THE ELECTRICAL EQUIPMENT AND STARTING THE ACTUAL CONSTRUCTION. CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE ARCHITECT/ENGINEER LISTING ANY DISCREPANCIES OR CONFLICTING INFORMATION.
2. ELECTRICAL PLANS, DETAILS AND DIAGRAMS ARE DIAGRAMMATIC ONLY. VERIFY EXACT LOCATIONS AND MOUNTING HEIGHTS OR ELECTRICAL EQUIPMENT WITH OWNER PRIOR TO INSTALLATION.
3. EACH CONDUCTOR OF EVERY SYSTEM SHALL BE PERMANENTLY TAGGED IN EACH PANELBOARD, PULLBOX, JUNCTION BOX, SWITCH BOX, ETC. THE TYPE OF TAGGING METHODS SHALL BE IN COMPLIANCE WITH OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (O.S.H.A.)
4. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN GOOD WORKING CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. MATERIALS SHALL BE LISTED "U.L." WHERE APPLICABLE. MATERIALS SHALL MEET WITH APPROVAL OF ALL GOVERNING BODIES HAVING JURISDICTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA, NBFU AND "U.L." LISTED.
5. ALL CONDUIT SHALL HAVE A PULL CORD.
6. PROVIDE PROJECT MANAGER WITH ONE SET OF COMPLETE ELECTRICAL "AS INSTALLED" DRAWINGS AT THE COMPLETION OF THE JOB, SHOWING ACTUAL DIMENSIONS, ROUTINGS, AND CIRCUITS.
7. ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED, AND A MINIMUM OF 10,000 A.I.C.
8. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY IBC, NEC AND ALL APPLICABLE CODES.
9. PATCH, REPAIR AND PAINT ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF THE ELECTRICAL WORK.
10. PLASTIC PLATES FOR ALL SWITCHES, RECEPTACLES, TELEPHONE AND BLANKED OUTLETS SHALL HAVE ENGRAVED LETTERING WHERE INDICATED ON THE DRAWINGS. WEATHERPROOF RECEPTACLES SHALL HAVE SIERRA #WPD-8 LIFT COVERPLATES.

SERVICE AND DISTRIBUTION

- WIRE AND CABLE CONDUCTORS SHALL BE COPPER, 600V, TYPE THHN OR THWN, WITH A MIN. SIZE OF #12 AWG, COLOR CODED.
2. METER SOCKET AMPERES, VOLTAGE, NUMBER OF PHASES SHALL BE NOTED ON THE DRAWINGS. MANUFACTURED BY MILBANK OR APPROVED EQUAL, AND SHALL BE UTILITY COMPANY APPROVED.
3. CONDUIT:
- A. RIGID CONDUIT SHALL BE U.L. LABEL GALVANIZED ZINC COATED WITH GALVANIZED ZINC INTERIOR AND SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS, IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS OR EXPOSED ON BUILDING EXTERIOR. RIGID CONDUIT IN CONTACT WITH EARTH SHALL BE 1/2 LAPPED WRAPPED WITH HUNTS WRAP PROCESS NO. 3.
 - B. FLEXIBLE METALLIC CONDUIT SHALL HAVE U.L. LISTED LABEL AND MAY BE USED WHERE PERMITTED BY CODE. FITTINGS SHALL BE "JAKE" OR "SQUEEZE" TYPE. ALL FLEXIBLE CONDUITS SHALL HAVE FULL LENGTH GROUND WIRE.
 - C. IT IS REQUIRED AND WILL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO NOTIFY 811 OR OTHER SUCH UTILITY LOCATING AGENCY 3 DAYS BEFORE DIGGING.
4. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY FOR CONNECTION OF TEMPORARY AND PERMANENT POWER TO THE SITE. THE TEMPORARY POWER AND ALL HOOKUP COSTS ARE TO BE PAID BY THE CONTRACTOR.
5. ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENT ENGRAVED PLASTIC LABELS WITH WHITE ON BLUE BACKGROUND LETTERING (MINIMUM LETTER HEIGHT SHALL BE ONE FOURTH INCH (1/4"). NAMEPLATES SHALL BE FASTENED WITH STAINLESS STEEL SCREWS, NOT ADHESIVE.
6. UPON COMPLETION OF WORK, CONTINUITY, SHORT CIRCUIT, AND FALL POTENTIAL GROUNDING TESTS BY AN INDEPENDENT TESTING SERVICE ENGAGED BY THE CONTRACTOR SHALL BE SUBMITTED FOR APPROVAL. SUBMIT TEST REPORTS TO PROJECT MANAGER. CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION.
7. GROUNDING ELECTRODE SYSTEM
- A. PREPARATION
 - 1. SURFACE PREPARATION: ALL CONNECTIONS SHALL BE MADE TO BARE METAL. ALL PAINTED SURFACES SHALL BE FIELD INSPECTED AND MODIFIED TO ENSURE PROPER CONTACT. NO WASHERS ARE ALLOWED BETWEEN THE ITEMS BEING GROUNDED. ALL CONNECTIONS ARE TO HAVE A NON-OXIDIZING AGENT APPLIED PRIOR TO INSTALLATION.
 - 2. IF CONDUCTORS MUST RUN THROUGH CONDUIT, BOTH ENDS OF CONDUIT SHALL BE GROUNDED. SEAL BOTH ENDS OF CONDUIT WITH SILICONE CAULK.
 - B. EXTERNAL CONNECTIONS
 - 1. ALL BURIED GROUNDING CONNECTIONS SHALL BE MADE BY THE EXOTHERMIC WELD PROCESS. CONNECTIONS SHALL INCLUDE ALL CABLE TO CABLE, SPLICES, TEE'S, CROSSES, ETC. ALL CABLE TO GROUND RODS, GROUND ROD SPLICES AND LIGHTNING PROTECTION SYSTEMS ARE TO BE AS INDICATED. ALL MATERIALS USED (MOLDS, WELDING METAL, TOOLS, ETC.) SHALL BE BY "ULTRAWELD" AND INSTALLED PER MANUFACTURER'S RECOMMENDED PROCEDURES.
 - 2. ALL ABOVE GRADE GROUNDING AND BONDING CONDUCTORS SHALL BE CONNECTED BY TWO HOLE CRIMP TYPE (COMPRESSION) CONNECTIONS (EXCEPT FOR THE ACEG AND GROUND ROD). MECHANICAL CONNECTIONS, FITTINGS OR CONNECTIONS THAT DEPEND SOLELY ON SOLDER SHALL NOT BE USED. ALL CABLE TO CABLE CONNECTIONS SHALL BE HIGH PRESSURE DOUBLE CRIMP TYPE CONNECTIONS. CONNECTIONS TO STRUCTURAL STEEL SHALL BE EXOTHERMIC WELDS.

- Attachment: BS90XSI50B_CONSTDWGS90_20160614_A1P (3670 : Main Street (Mobilitie))

- C. GROUND RODS: ALL GROUND RODS SHALL BE 5/8-INCH DIAMETER X 10'-0" LONG "COPPERWELD" OR APPROVED EQUAL, OF THE NUMBER AND LOCATIONS INDICATED. GROUND RODS SHALL BE DRIVEN FULL LENGTH VERTICAL IN UNDISTURBED EARTH.
- D. GROUND CONDUCTORS: ALL GROUND CONDUCTORS SHALL BE STANDARD TINNED SOLID BARE COPPER ANNEALED, AND OF SIZE INDICATED ON DRAWINGS UNLESS OTHERWISE NOTED.
- E. LUGS
- LUGS SHALL BE 2-HOLE, LONG BARREL, STRAND COPPER UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS. LUGS SHALL BE THOMAS AND BETTS SERIES #54____BE OR EQUIVALENT

A.	535	MCM	DLO	54880BE
B.	262	MCM	DLO	54872BE
C.	#1/0	DLO		54862BE
D.	#4/0	THWN	AND BARE	54866BE
E.	#2/0	THWN		54862BE
F.	#2	THHN		54207BE
G.	#6	DLO		54205BE

- WHEN THE DIRECTION OF THE CONDUCTOR MUST CHANGE, IT SHALL BE DONE GRADUALLY. THE CURVATURE OF THE TURN SHALL BE DONE IN ACCORDANCE WITH THE FOLLOWING CHART:

<u>GROUNDING CONDUCTOR SIZE</u>	<u>MINIMUM BENDING RADIUS TO INSIDE EDGE</u>
NO. 6 AWG TO NO. 4 AWG	6 INCHES
NO. 2 AWG TO NO 1/0 AWG	8 INCHES
NO. 2/0 AWG TO 4/0 AWG	12 INCHES
250 MCM TO 750 MCM	24 INCHES

8. GROUNDING RESISTANCE TEST REPORT: UPON COMPLETION OF THE TESTING FOR EACH SITE, A TEST REPORT SHOWING RESISTANCE IN OHMS MUST BE SUBMITTED. TWO (2) SETS OF TEST DOCUMENTS FROM THE INDEPENDENT TESTING SERVICE ARE TO BE BOUND AND SUBMITTED WITHIN ONE (1) WEEK OF WORK COMPLETION.

POLES, POSTS, AND STANDARDS
(SINGLE MAST AND SELF SUPPORTING TOWERS)

1. GENERAL
 - A. LIGHTNING ROD AND EXTENSION PIPE INCLUDING ALL APPURTENANCES, TO BE FURNISHED BY OWNER, IF REQUIRED.
 - B. GROUNDING: GROUNDING METAL POLES WITH A MINIMUM OF #2 AWG TINNED SOLID BARE COPPER CONDUCTOR CADWELDED TO TOWER BASE PLATE.

TELECOMMUNICATIONS WIRING COMPONENTS (COAXIAL ANTENNA CABLE)

1. GENERAL
 - A. ALL MATERIALS, PRODUCTS OR PROCEDURES INCORPORATED INTO WORK SHALL BE NEW AND OF STANDARD COMMERCIAL QUALITY.
 - B. ALL MATERIALS AND PRODUCTS SPECIFIED IN THE CONTRACT DOCUMENTS SHALL BE SUPPLIED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.
2. MATERIALS:
 - A. COAXIAL CABLE:
 - INSTALL COAXIAL CABLE AND TERMINATIONS BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS WITH COAXIAL CABLES SUPPORTED AT NO MORE THAN 3'-0" O.C. WEATHERPROOF ALL CONNECTORS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE FEET (3') IN EXCESS OF EQUIPMENT LOCATION UNLESS OTHERWISE STATED.
 - LENGTHS LESS THAN OR EQUAL TO 100 FEET SHALL BE 7/8".
3. ANTENNA AND COAXIAL CABLE GROUNDING
 - A. ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS)
4. COAXIAL CABLE IDENTIFICATION
 - A. TO PROVIDE EASY IDENTIFICATION AND UNIFORM MARKING OF ANTENNA CABLING, PLASTIC TAGS SHALL BE USED AT THE FOLLOWING LOCATIONS:
 - FIRST LOCATION IS AT THE END OF THE COAX NEAREST THE ANTENNA (WHERE THE COAXIAL CABLE AND JUMPER ARE CONNECTED).
 - SECOND LOCATION IS AT END OF THE COAX NEAREST THE EQUIPMENT.
 - B. USE ANDREW CABLE TIES (PT.# 27290) TO SECURE IDENTIFICATION TAGS.
 - TESTING: LESSEE SHALL PROVIDE AN INDEPENDENT TESTING AGENCY TO PERFORM THE COAXIAL SWEEP TEST & REPORT. THE CONTRACTOR IS TO PROVIDE ONE LIMBER/QUALIFIED PERSONNEL TO ASSIST IN ANY REPAIRS AND WEATHERPROOFING ONCE THE TEST IS COMPLETE. THE CONTRACTOR IS TO PROVIDE LESSEE WITH A MINIMUM OF 48 HOURS NOTICE PRIOR TO THE TIME OF THE SWEEP TEST.



PROJECT NO:	9MAB001636
DRAWN BY:	RC
CHECKED BY:	SJB

[illegible]

KMB DESIGN GROUP, LLC

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BS90XSI50B

MAIN ST & BRIDGE ST
SPRINGFIELD, MA 01103

UTILITY POLE

SHEET TITLE
GENERAL NOTES

SHEET NUMBER
GN-2



City Council
36 Court Street
Springfield, MA 01103

Meeting: 10/03/16 07:00 PM
Department: Department of Public Works
Category: General
Prepared By: Hector Velez
Initiator: Hector Velez
Sponsors: Mayor Domenic J. Sarno
DOC ID: 3671

TABLED

PETITION (ID # 3671)

Taylor Street (Mobilitie)

CITY OF SPRINGFIELD, MASSACHUSETTS

Date: September 27, 2016

TO THE MAYOR AND CITY COUNCIL OF THE CITY OF SPRINGFIELD:

The Board of Public Works, to which was referred the petition of Mobilitie dated August 28, 2016 to install a high-speed network antenna on Taylor Street. Seventy-five (75') feet network antenna will be install north side of Taylor Street, to be located on the sidewalk approximately ninety (90') feet from Dwight Street northeasterly direction. The purpose of the high speed network antenna is to provide wireless service around the area, all as substantially shown on a plan attached, referred to BS90XS152A Taylor Street, which is incorporated herein by reference and to lay and maintain underground laterals, cables and wires in the above public ways for the purpose of making connections with the pole as it may desire for distributing purposes, reports thereon as follows:

By virtue of Chapter 708 of the Acts of 1977 the Board of Public Works held the hearing on the above matter provided for in Section 22 of Chapter 166 of the General Laws. The hearing was held on September 26, 2016 at 5:00 P.M. at the corner of Dwight Street & Taylor Street Springfield, MA. Three (3) members of the Board and two (2) persons interested in the matter were present. Of the latter, two (2) voted in favor of and no-one (0) voted against.

The Board finds the request necessary in order to provide high speed wireless network service to the business around the area.

After careful consideration, the Board recommends the petition be granted provided:

That due care for public safety is exercised during construction including but not limited to the use of a police officer(s) for traffic control if necessary.

That said construction would not unnecessarily interfere with the movement of vehicular or pedestrian traffic in the area.

That care be taken during said construction not to damage any underground services.

That the construction site be returned to the same condition as found or better.

Said company shall indemnify and save harmless against all damages, costs and expenses whatsoever to which the City may be subjected in consequence of the acts or neglect of said Company, its agents or servants, or in any manner arising from the rights and privileges granted it by the City.

In addition said company shall, before a public way is disturbed for the laying of its wire or conduit, execute its bond in the penal sum of Ten Thousand Dollars (\$10,000) conditioned for faithful performance of its duties under this permit.

Said company shall comply with the requirements of existing Ordinances and orders and comply with any changes in Ordinances and orders as may hereafter be adopted by the Mayor and Council governing the construction and maintenance of buried cable, conduits and wires.

That any sidewalks that are damaged or removed will be replaced in kind and in accordance with the City of Springfield's Standard Specifications.

That ramps for the handicapped will be provided if and where required by law and in conformance with the Rules and Regulations of the Massachusetts Architectural Barrier Board.

That any curbing that is disturbed during construction will be reset to the established street grade using proper construction procedures.

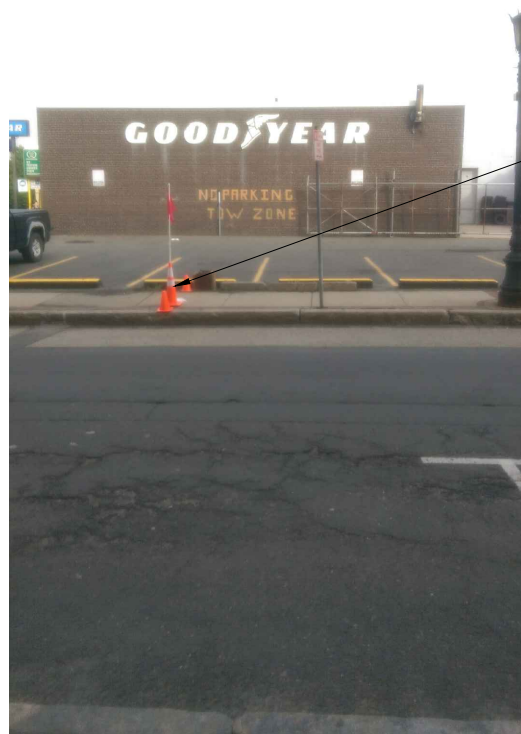
That due care be exercised not to unnecessarily damage any public shade trees located within the construction area.

That the Springfield Water and Sewer Commission be notified before construction begins. All installations of adjacent utilities must be a minimum of 4 feet from the existing water and/or sewer main, edge to edge of pipe.

That all conditions set forth in the respective order are complied with.

_____))
 _____)) BOARD OF PUBLIC WORKS
 _____))

RESULT: REFER TO COMMITTEE**Next: 10/17/2016 7:00 PM**

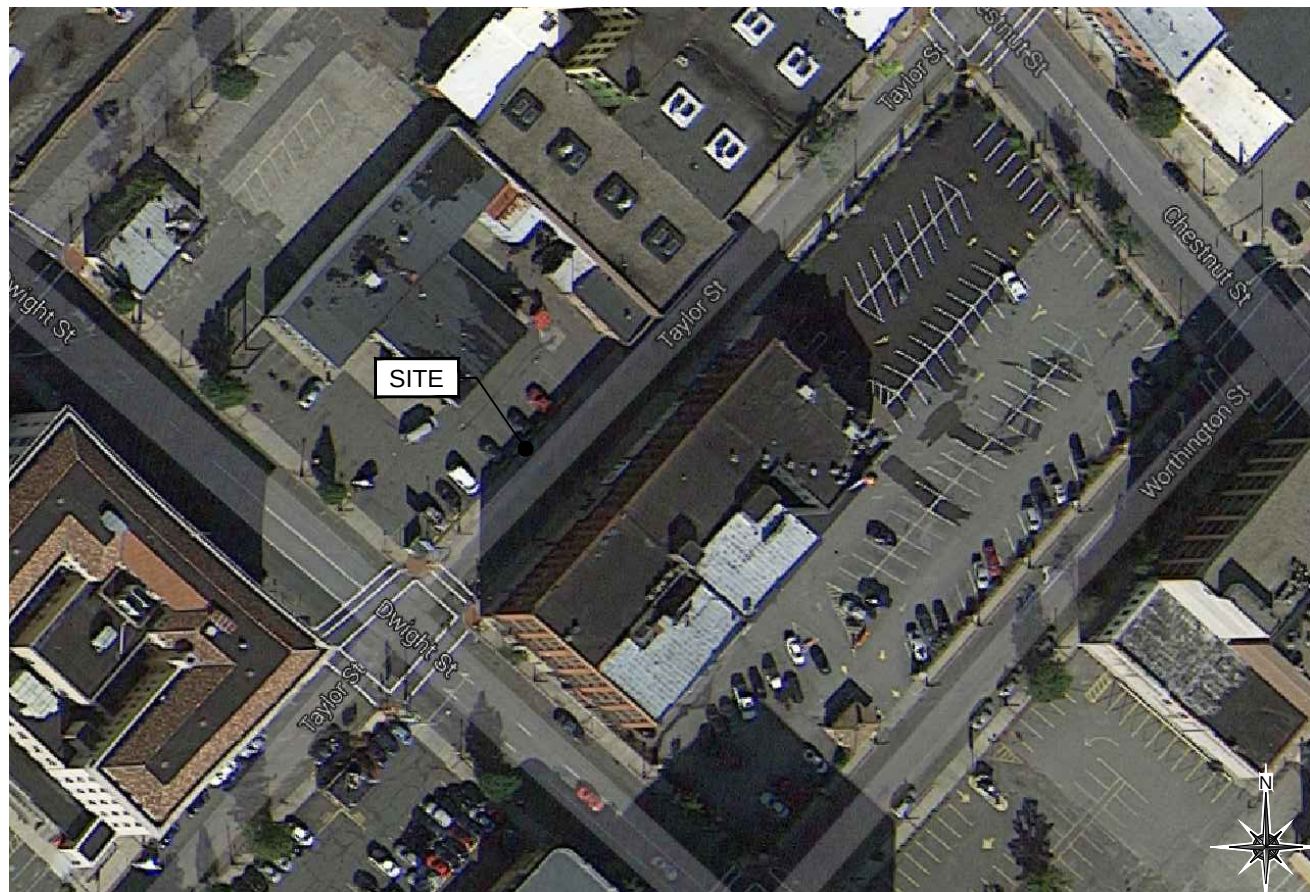


— PROPOSED UTILITY POLE

1

EXHIBIT PHOTO

SCALE: NTS

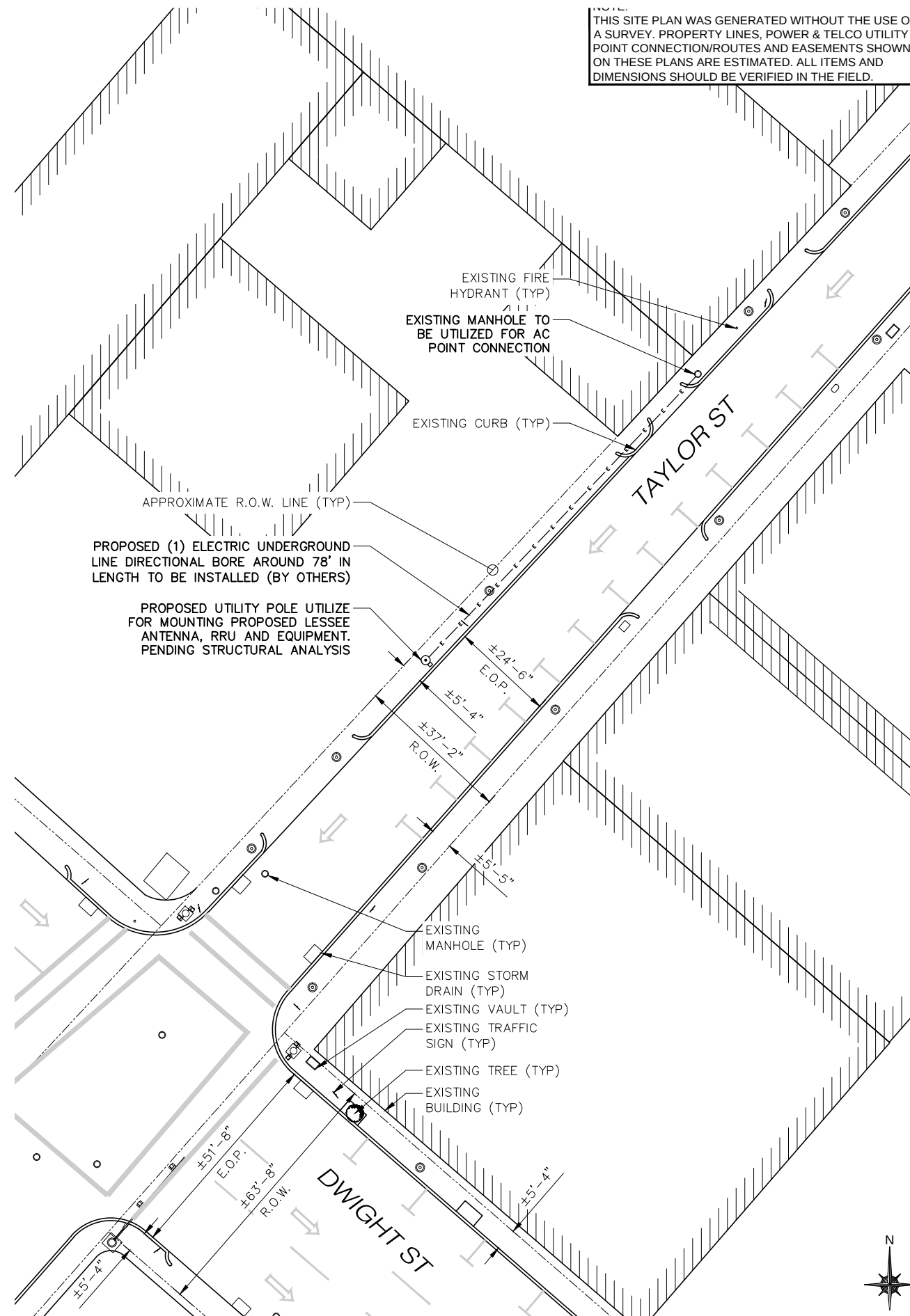


SITE

2

AERIAL SITE LOCATION

SCALE: NTS



THIS SITE PLAN WAS GENERATED WITHOUT THE USE OF A SURVEY. PROPERTY LINES, POWER & TELCO UTILITY POINT CONNECTION/ROUTES AND EASEMENTS SHOWN ON THESE PLANS ARE ESTIMATED. ALL ITEMS AND DIMENSIONS SHOULD BE VERIFIED IN THE FIELD.

EXISTING FIRE
HYDRANT (TYP)
EXISTING MANHOLE TO
BE UTILIZED FOR AC
POINT CONNECTION

EXISTING CURB (TYP)

APPROXIMATE R.O.W. LINE (TYP)

PROPOSED (1) ELECTRIC UNDERGROUND
LINE DIRECTIONAL BORE AROUND 78' IN
LENGTH TO BE INSTALLED (BY OTHERS)

PROPOSED UTILITY POLE UTILIZE
FOR MOUNTING PROPOSED LESSEE
ANTENNA, RRU AND EQUIPMENT.
PENDING STRUCTURAL ANALYSIS

HOLE (TYP)

— EXISTING STORM

—EXISTING VAULT (TYP

—EXISTING TRAFFIC

SIGN (TYP)

—EXISTING TREE (TYP)

— EXISTING BUILDING (TYD)

BOEING (111)

DWIGHT ST

3

ENLARGED SITE PLAN

11x17 SCALE: 1/32" = 1'-0"

24x36 SCALE: 1/16" = 1'-0"



Packet Pg. 229

PROJECT NO:	9MAB001638
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DRAWN BY: RC

CHECKED BY: SJB

A	06-14-16	FOR CLIENT REVIEW
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KMB DESIGN GROUP, LLC

Stephen A. Bray
PROFESSIONAL ENGINEER

PRELIMINARY
NOT FOR CONSTRUCTION

MA LICENSE: 47770 6/14/16

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BS90XSI52A

TAYLOR ST & DWIGHT ST
SPRINGFIELD, MA 01103

UTILITY POLE

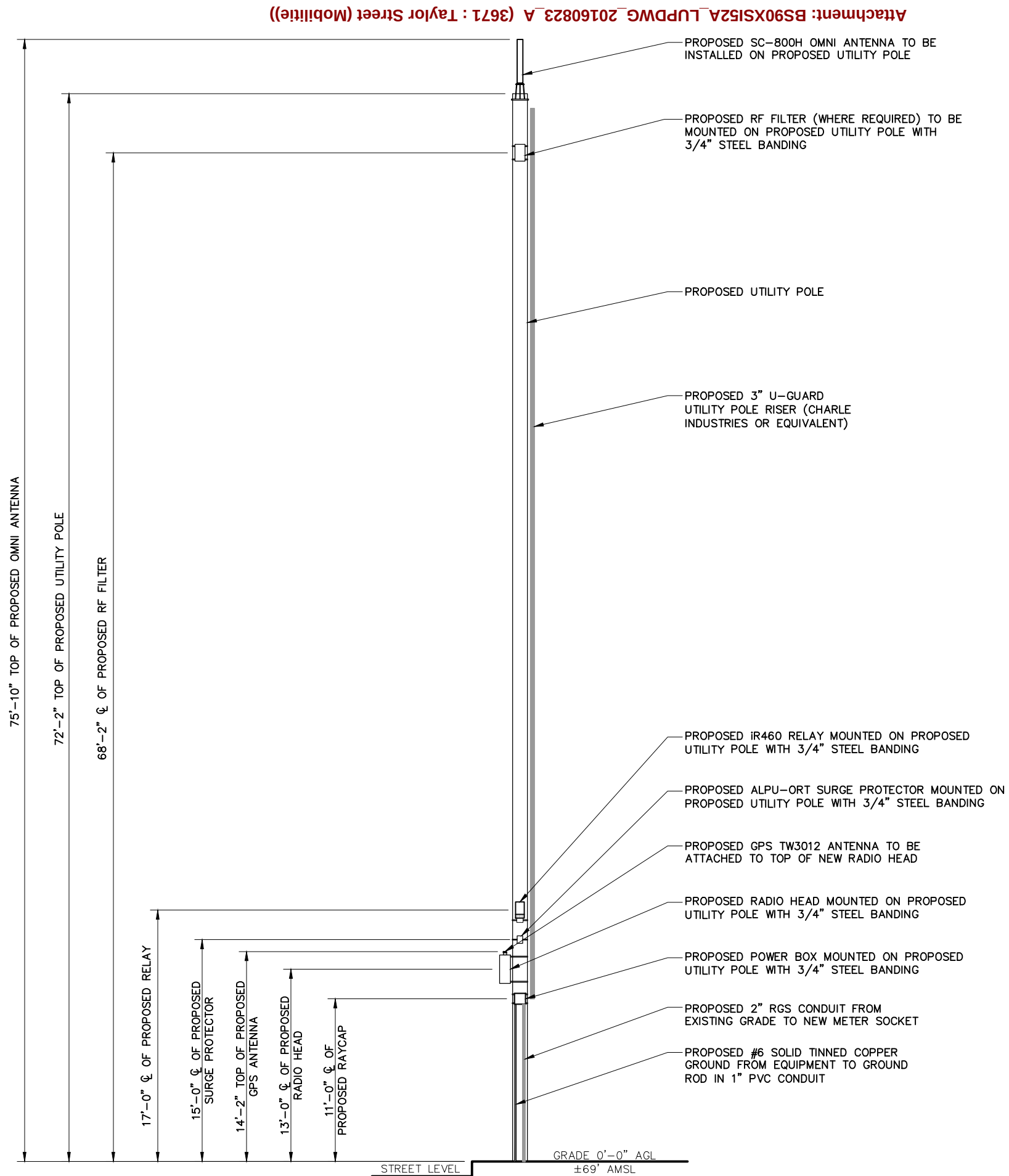
SHEET TITLE

SITE PLAN & EXHIBIT PHOTO

SHEET NUMBER

1.0

NO. 1. _____
KMB DESIGN GROUP, LLC HAS NOT PERFORMED A FULL
STRUCTURAL ANALYSIS ON THE POLE AND MOUNTS AS
PART OF THIS SUBMITTAL. STRUCTURAL ANALYSIS
REPORT TO BE PROVIDED UNDER SEPARATE COVER AND
OBTAINED BY CONTRACTOR PRIOR TO CONSTRUCTION.



PROJECT NO:	9MAB001638
DRAWN BY:	RC
CHECKED BY:	SJB

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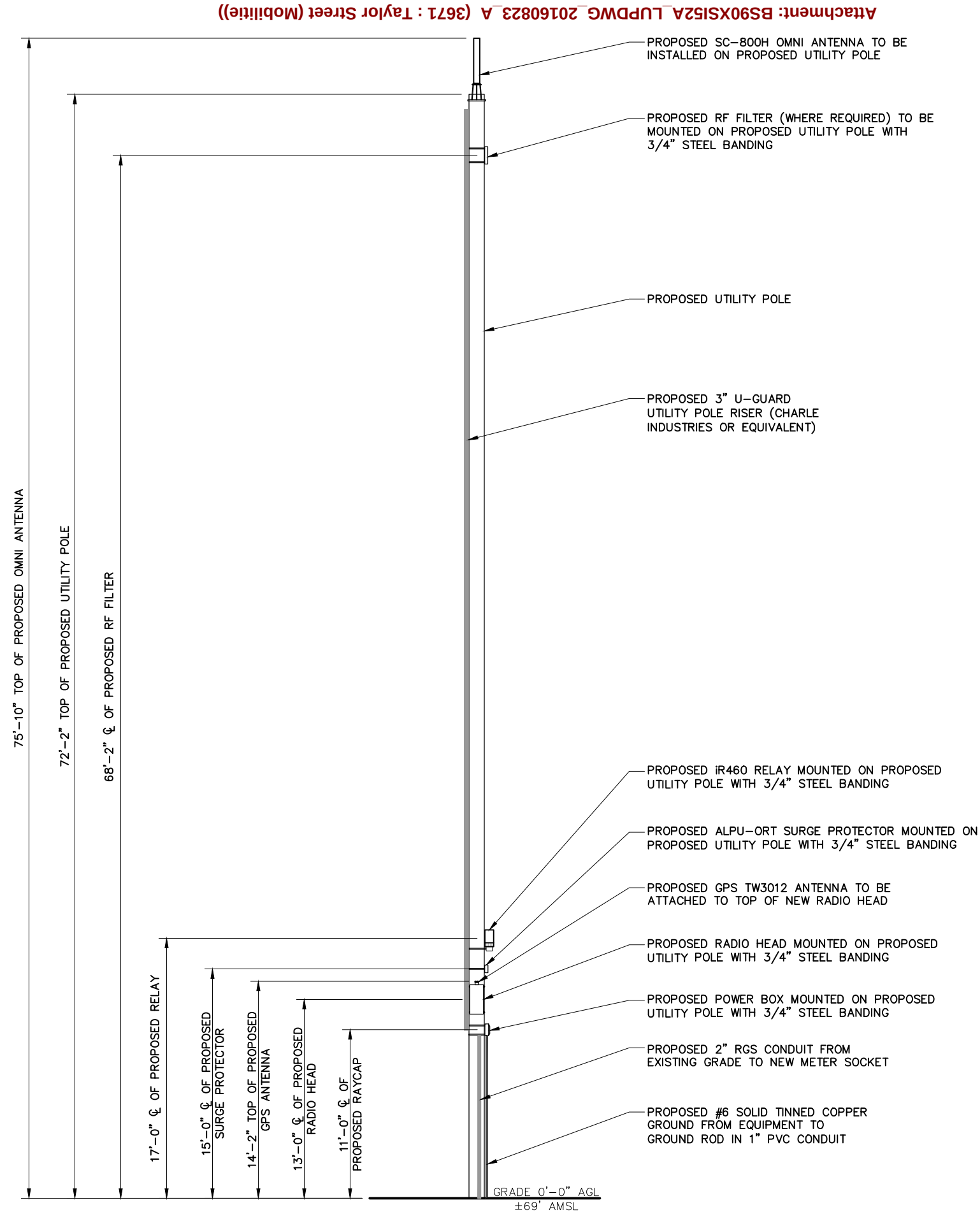
SHEET TITLE

POLE ELEVATION

SHEET NUMBER

2.0

NO. 1.
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UTILITY POLE

SHEET TITLE
POLE ELEVATION

SHEET NUMBER
2.1



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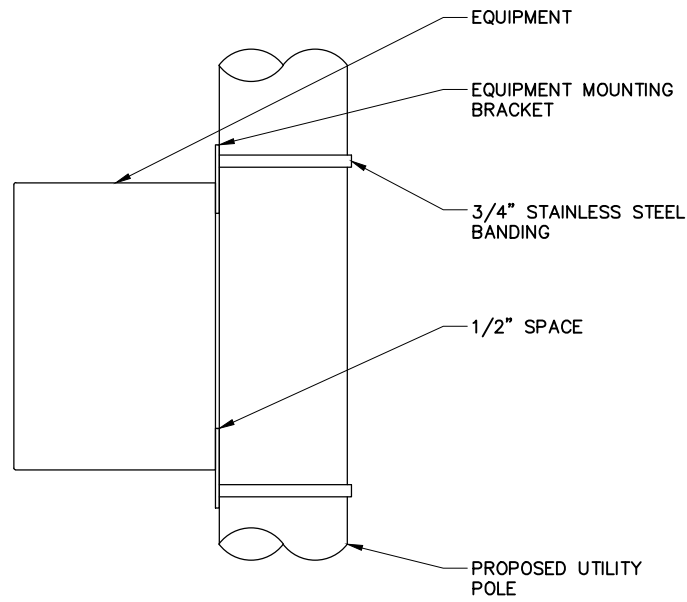
TAYLOR ST & DWIGHT ST
SPRINGFIELD, MA 01103

UTILITY POLE

SHEET TITLE

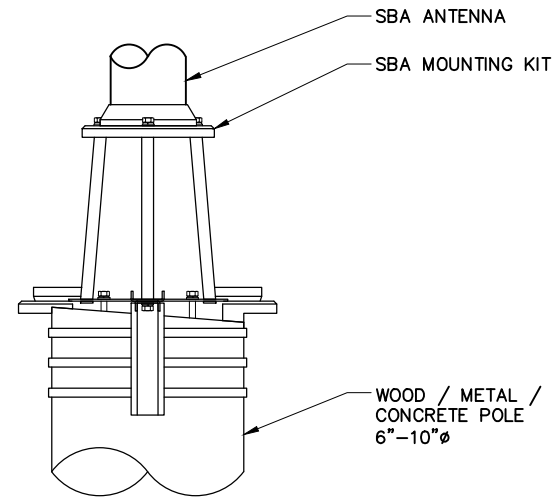
ANTENNA & EQUIPMENT MOUNTING DETAILS

SHEET NUMBER
3.0



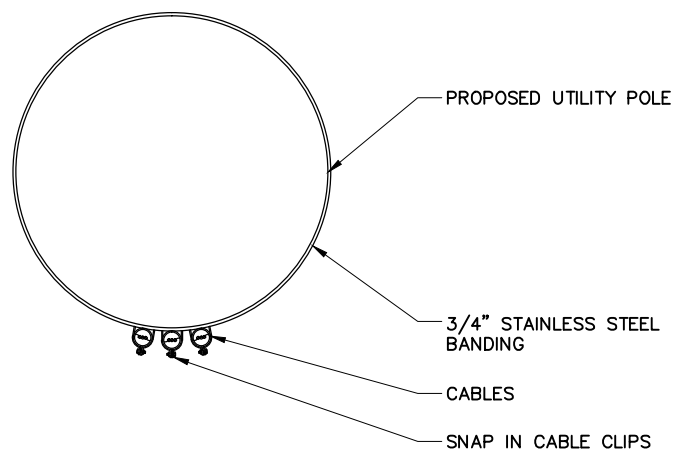
1

SCALE: NTS



2

SCALE: NTS



3

SCALE: NTS

10.a

UTIL

WORK INCLUDES:

THESE NOTES AND ACCOMPANYING DRAWINGS COMPLEMENT THE PROVISIONS AND INSTALLATIONS BY THE ELECTRICAL CONTRACTOR, OF ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO INSTALL THE ELECTRICAL WORK COMPLETE IN CONNECTION WITH THIS UTILITY SITE AND SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:

1. THE PROVISIONS, INSTALLATION AND CONNECTION OF A GROUNDING ELECTRODE SYSTEM COMPLETE WITH SECONDARY GROUNDING, AND CONNECTIONS TO THE INCOMING ELECTRICAL DISTRIBUTION EQUIPMENT.

2. THE PROVISION AND INSTALLATION OF AN OVERHEAD ELECTRICAL SERVICE OR UNDERGROUND ELECTRICAL SERVICE AND ALL ASSOCIATED WIRE AND CONDUIT AS REQUIRED AND/OR INDICATED ON PLANS.

3. THE PROVISION AND INSTALLATION OF CONDUIT AND CONNECTIONS FOR LOCAL FIBER SERVICE.

4. THE FURNISHING AND INSTALLATION OF THE ELECTRICAL SERVICE ENTRANCE CONDUCTORS, CONDUITS, METER SOCKET, AND CONNECTIONS TO THE SERVICE EQUIPMENT.

5. ALL CONDUITS SHOULD BE LEFT WITH NYLON PULL CORD FOR FUTURE USE.

6. EXCAVATION, TRENCHING, AND BACKFILLING FOR CONDUIT(S), CABLE(S) AND EXTERNAL GROUNDING SYSTEM.

CODES, PERMITS AND FEES:

1. ALL REQUIRED PERMITS, LICENSES, INSPECTIONS AND APPROVALS SHALL BE SECURED AND ALL FEES FOR SAME PAID BY CONTRACTOR.

2. THE INSTALLATION SHALL COMPLY WITH ALL APPLICABLE CODES: STATE, LOCAL AND NATIONAL AND THE DESIGN, PERFORMANCE CHARACTERISTICS AND METHODS OF CONSTRUCTION OF ALL ITEMS AND EQUIPMENT SHALL BE IN ACCORDANCE WITH THE LATEST ISSUE OF THE VARIOUS APPLICABLE STANDARD SPECIFICATIONS OF THE FOLLOWING AUTHORITIES:

N.E.C.

NATIONAL ELECTRICAL CODE

A.N.S.I.

AMERICAN NATIONAL STANDARDS INSTITUTE

I.E.E.E.

INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS

A.S.T.M.

AMERICAN SOCIETY FOR TESTING MATERIALS

N.E.M.A.

NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION

U.L.

UNDERWRITERS LABORATORIES, INC.

N.F.P.A.

NATIONAL FIRE PROTECTION ASSOCIATION

RACEWAYS AND WIRING:

1. WIRING OF EVERY KIND MUST BE INSTALLED IN CONDUIT, UNLESS NOTED OTHERWISE, OR AS APPROVED BY THE ARCHITECT/ENGINEER.

2. UNLESS OTHERWISE SPECIFIED, ALL WIRING SHALL BE COPPER (CU) TYPE THWN, SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND LOCAL CODES.

3. RACEWAYS SHALL BE GALVANIZED STEEL, SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND LOCAL CODES UNLESS OTHERWISE NOTED. ALL RACEWAYS SHALL BE APPROVED FOR THE INSTALLATION.

4. PULL OR JUNCTION BOXES SHALL BE PROVIDED AS REQUIRED TO FACILITATE INSTALLATION OF RACEWAYS AND WIRING. PROVIDE JUNCTION AND PULLBOXES FOR CONDUIT RUNS WITH MORE THAN (360) DEGREES OF BENDS.

5. PROVIDE A COMPLETE RACEWAY AND WIRING INSTALLATION, PERMANENTLY AND EFFECTIVELY GROUNDED IN ACCORDANCE WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE AND LOCAL CODES.

6. ALL STEEL CONDUIT SHALL BE BONDED AT BOTH ENDS WITH GROUNDING BUSHING.

GENERAL NOTES:

SEE DETAILS, SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND INFORMATION. CHECK ARCHITECTURAL, STRUCTURAL, AND OTHER MECHANICAL AND ELECTRICAL DRAWINGS FOR SCALE, SPACE LIMITATIONS, COORDINATION, AND ADDITIONAL INFORMATION, ETC. REPORT ANY DISCREPANCIES, CONFLICTS, ETC. TO ARCHITECT/ENGINEER BEFORE SUBMITTING BID. ALL EQUIPMENT FURNISHED BY OTHERS (FBO) SHALL BE PROVIDED WITH PROPER MOTOR STARTERS, DISCONNECTS, CONTROLS, ETC. BY THE ELECTRICAL CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE. THE ELECTRICAL CONTRACTOR SHALL INSTALL AND COMPLETELY WIRE ALL ASSOCIATED EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S WIRE DIAGRAMS AND AS REQUIRED FOR A COMPLETE OPERATING INSTALLATION. ELECTRICAL CONTRACTOR SHALL VERIFY AND COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF (FBO) EQUIPMENT PRIOR TO ROUGH-IN OF CONDUIT AND WIRING TO AVOID CONFLICTS.

COORDINATION WITH UTILITY COMPANY:

THE ELECTRICAL CONTRACTOR SHALL COORDINATE COMPLETE ELECTRICAL SERVICE WITH LOCAL UTILITY COMPANY FOR A COMPLETE OPERATIONS SYSTEM, INCLUDING TRANSFORMER CONNECTIONS, CONCRETE TRANSFORMER PADS, IF REQUIRED, METER SOCKETS, PRIMARY CABLE RACEWAY REQUIREMENTS, SECONDARY SERVICE, ETC. PRIOR TO SUBMITTING BID TO INCLUDE ALL LABOR AND MATERIALS. THE ELECTRICAL CONTRACTOR SHALL INCLUDE IN THE BID ANY OPTIONAL OR EXCESS FACILITY CHARGES ASSOCIATED WITH PROVIDING ELECTRICAL SERVICE FROM LOCAL UTILITY COMPANY. VERIFY BEFORE BIDDING TO INCLUDE ALL COSTS. THE ELECTRICAL CONTRACTOR SHALL VERIFY THE AVAILABLE FAULT CURRENT WITH THE LOCAL UTILITY COMPANY PRIOR TO SUBMITTING BID. ADJUST A.I.C. RATINGS OF ALL OVER CURRENT PROTECTION DEVICES IN DISTRIBUTION EQUIPMENT AS REQUIRED TO COORDINATE WITH AVAILABLE FAULT CURRENT FROM LOCAL UTILITY COMPANY.

1

NOTES

SPACE FOR FUTURE CIRCUIT BREAKER EXPANSION

DIN MOUNT SURGE PROTECTION DEVICE

20 AMP CIRCUIT BREAKER

5 AMP CIRCUIT BREAKER

ISOLATED NEUTRAL BUSBAR

NEUTRAL/GROUND BONDING STRIP

GROUND BUSBAR

L2 CONNECTION TERMINAL

L1 CONNECTION TERMINAL

2

AC DISTRIBUTION PANEL

SCALE: NTS

Attachment: BS90XSI52A_LUPDWG_20160823_A (3671 : Taylor Street (Mobile))

NOTE:
CABLING DIAGRAM IS FOR CLARITY OF CABLE ROUTE AND TERMINATION ONLY. CONTRACTOR SHALL INSTALL CABLES WITH MINIMAL VISUAL IMPACT ON PROPOSED UTILITY POLE. SEE ELEVATION DRAWING FOR EQUIPMENT AND ANTENNA LOCATIONS.

LEGEND

COAX CABLES

ETHERNET CABLES

POWER CABLES

PROPOSED ANTENNA

PROPOSED (2) 1/2" COAX JUMPERS. DRIP LOOP NOT TO EXCEED RATED BENDING RADIUS OF CABLE

PROPOSED RF FILTER (WHERE REQUIRED)

PROPOSED UE RELAY ANTENNA

PROPOSED CAT 5 ETHERNET CABLE

PROPOSED RRU

PROPOSED UTILITY POLE

PROPOSED 3" U-GUARD UTILITY POLE RISER (CHARLE INDUSTRIES OR EQUIVALENT)

PROPOSED AC DISTRIBUTION BOX

PROPOSED DISCONNECT SWITCH

PROPOSED METER SOCKET

PROPOSED 2" RGS CONDUIT FROM EXISTING GRADE TO NEW METER SOCKET

PROPOSED 1" SCH 40 PVC GROUNDING CONDUIT

PROPOSED 2"Ø SCH 80 PVC CONDUIT FROM POWER POC TO GRADE LINE

PROPOSED QUAZITE ENCLOSURE

PROPOSED POWER CABLE MOUNTED TO UTILITY POLE IN SCH 40 PVC,PER THE UTILITY REQUIREMENTS

3

CABLE DIAGRAM

SCALE: NTS

mobilitie

PROJECT NO:

9MAB001638

DRAWN BY:

RC

CHECKED BY:

SJB

A

06-14-16

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UTILITY POLE

SHEET TITLE

ELECTRICAL DETAILS

SHEET NUMBER

4.0

Packet Pg. 234



PROJECT NO:	9MAB001638
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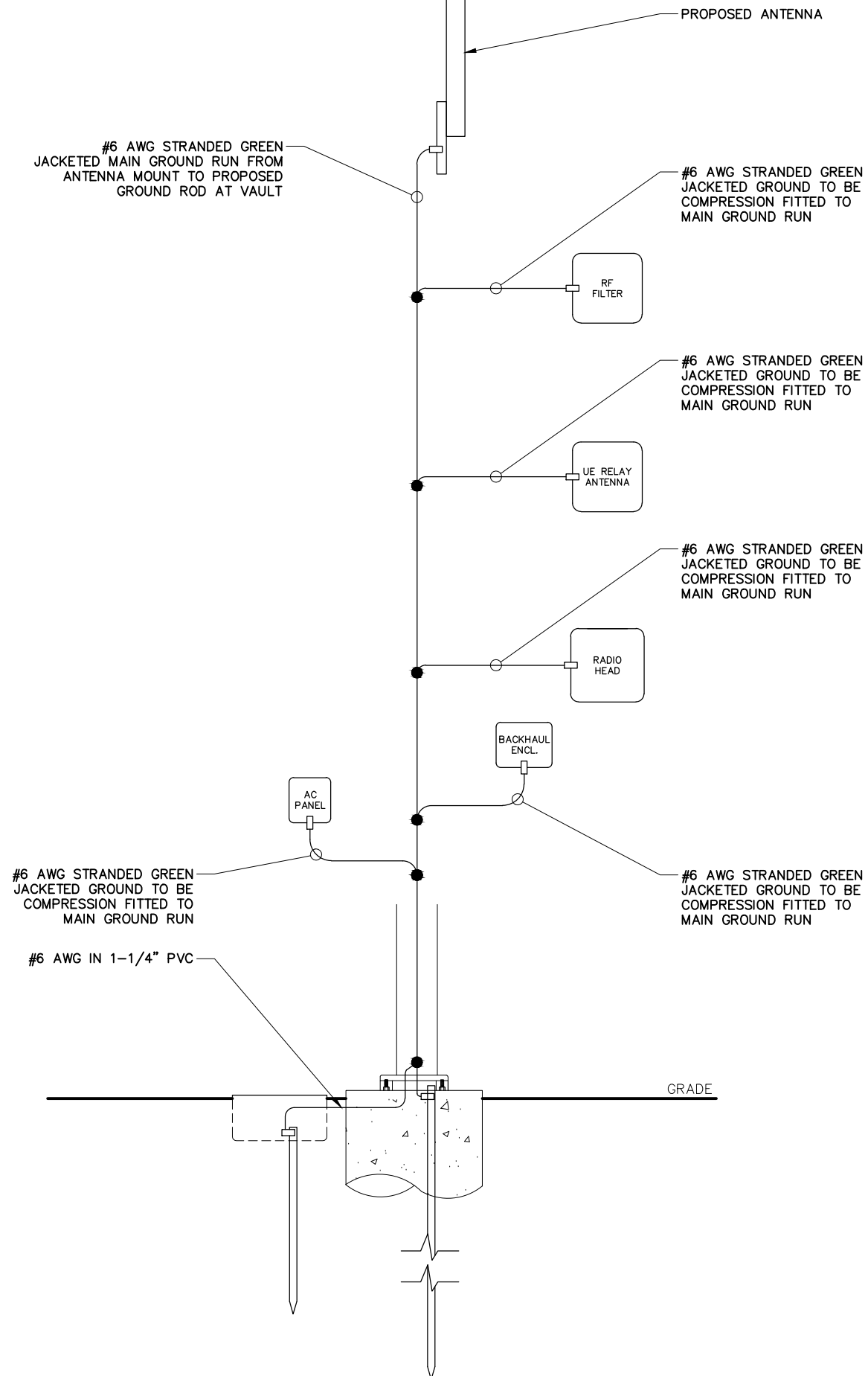
UTILITY POLE

SHEET TITLE

GROUNDING DETAILS

SHEET NUMBER

5.0



LEGEND

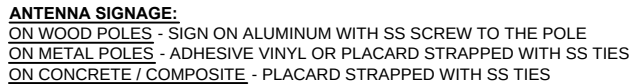
- CADWELD CONNECTION
- MECHANICAL CONNECTION
- COMPRESSION CONNECTION

■ CADWELD CONNECTION

☐ MECHANICAL CONNECTION

● COMPRESSION CONNECTION

NOTE:
GROUNDING RISER FOR DIAGRAMMATIC
PURPOSES ONLY. SEE ELEVATION DRAWING
FOR EQUIPMENT AND ANTENNA LOCATIONS.



1	RF NOTICE SIGN DETAIL
---	-----------------------

OWNER / OPERATOR NOTE:
SITE ID LABEL TO BE AFFIXED WITH TZeS241 LABELING TAPE OR EQUIVALENT
BLACK ON WHITE LABELING TAPE OF AT LEAST 18mm WIDTH WITH
EXTRA-STRENGTH ADHESIVE. USE ANY COMPATIBLE P-TOUCH LABEL MAKER.
TEXT SHOULD BE PRINTED IN ALL CAPS WITH A MINIMUM HEIGHT OF 1/2".

SCALE: NTS

NOTE:
RF/POWER DISCONNECT SIGN TO BE PLACED
ON OUTSIDE DOOR OF AC DISTRIBUTION BOX.

The logo for Interstate Transport and Broadband is shown. It features a circular seal with a stylized eagle in the center. The words "INTERSTATE" and "TRANSPORT AND BROADBAND" are written around the eagle. To the left of the seal, there are dimension lines indicating the size: a vertical line for 4" and a horizontal line for 5".

OWNER / OPERATOR NOTE:
SITE ID LABEL TO BE AFFIXED WITH TZeS241 LABELING TAPE OR EQUIVALENT BLACK ON WHITE LABELING TAPE OF AT LEAST 18mm WIDTH WITH EXTRA-STRENGTH ADHESIVE. USE ANY COMPATIBLE P-TOUCH LABEL MAKER. TEXT SHOULD BE PRINTED IN ALL CAPS WITH A MINIMUM HEIGHT OF 1/2".

Packet Pg. 236

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UTILITY POLE

SHEET NUMBER

6.0

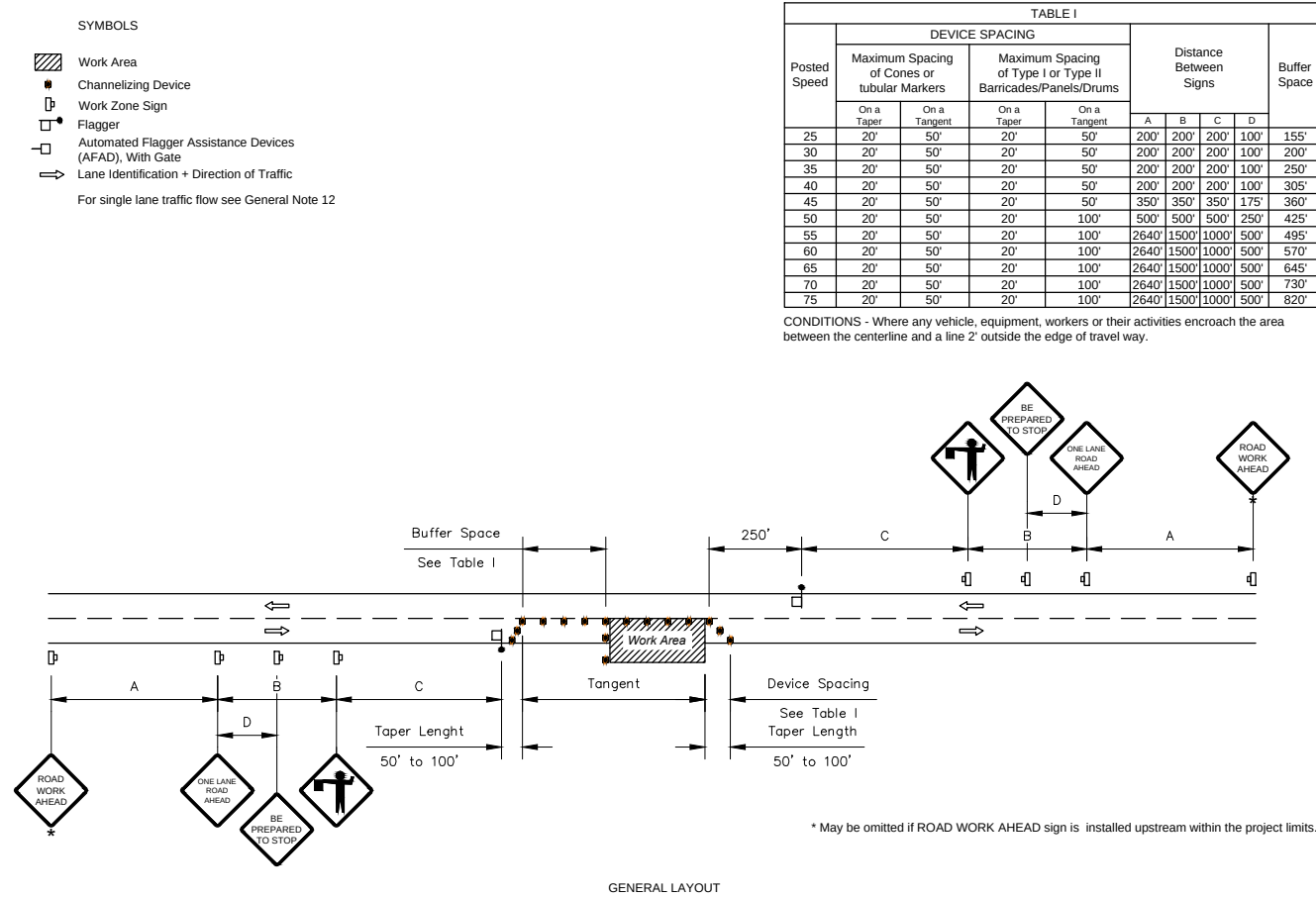
TRAFFIC

1. Prior to any road construction, traffic control signs and devices shall be in place.
2. Traffic control devices for lane closures including signs, cones, barricades, etc. shall be placed as shown on plans. Signs shall not be placed without actual lane closures and shall be immediately removed upon removal of the closures.
3. Fencing & gates subject to adjustments during construction.
4. Selection, placement, maintenance, and protection of traffic shall be in accordance with the Manual of Uniform Traffic Control Devices - Part VI "Standards and Guides for Traffic Control for Street and Highway Construction, Maintenance, Utility, and Incident Management Operations", and the State Department of Transportation Standards and Specifications, unless otherwise noted in the plans and specifications, and shall be approved by the appropriate highway authority having jurisdiction.
5. Tapers shall be located to maximize the visibility of their total length.
6. Advance warning signs, distances, and taper lengths may be extended, at direction of the Engineer, to adjust or reduced visibility due to horizontal and vertical curvature of the roadway.
7. All existing road signs, pavement markings and/or plowable pavement reflectors which conflict with the proposed traffic control plan shall be covered, removed, or relocated as directed by the Engineer and then restore to match pre-construction conditions.
8. Conflicting or non-operating signal indications on either the existing, temporary, or proposed traffic signal systems shall be bagged or covered.
9. Contractor shall contact local applicable highway jurisdiction and provide additional "flagmen" or police supervision as they deem appropriate.

10. All excavated areas within or adjacent to the roadway shall be backfilled and placed on a minimum 0.1v slope prior to the end of each work day. Other excavated areas within the clear zone are to be either backfilled or precast concrete curb construction barrier set temporarily in place to shield vehicular and pedestrian traffic.
11. Where required, the contractor shall make provisions for maintaining pedestrian crossing locations and type, in accordance with all applicable codes and osha requirements.
12. Construction zone speed limit will be determined by the regional traffic engineer at the time of or during construction, as requested by the resident engineer.
13. Bituminous concrete placed during the various construction stages shall be transitioned on a minimum 20h:1v slope to meet the adjacent existing grade at the longitudinal and transverse limits of the stage construction areas unless otherwise noted on the stage construction plans.
14. All excavated areas within or adjacent to the roadway shall be backfilled and placed on at least 6h:1v slope before the end of each work day. Other excavated area within the clear zone shall be backfilled.
15. Cones may be substituted for drums and installed upon the approval of the Engineer.
16. There shall be no workers, equipment, or other vehicles in the buffer space or the roll ahead space.
17. Driveways and/or side streets entering the roadway after the first advance warning sign shall be provided with at least one WZO-F sign (road work ahead) as a minimum.
18. Moving work areas in a lane closure require a trailer mounted illuminated flashing arrow to remain at the end of the taper, the traffic control truck with mounted crash cushion that shall move with the work areas to keep a 70 foot max buffer in advance of each work area.

1 TRAFFIC CONTROL NOTES

SCALE: NTS

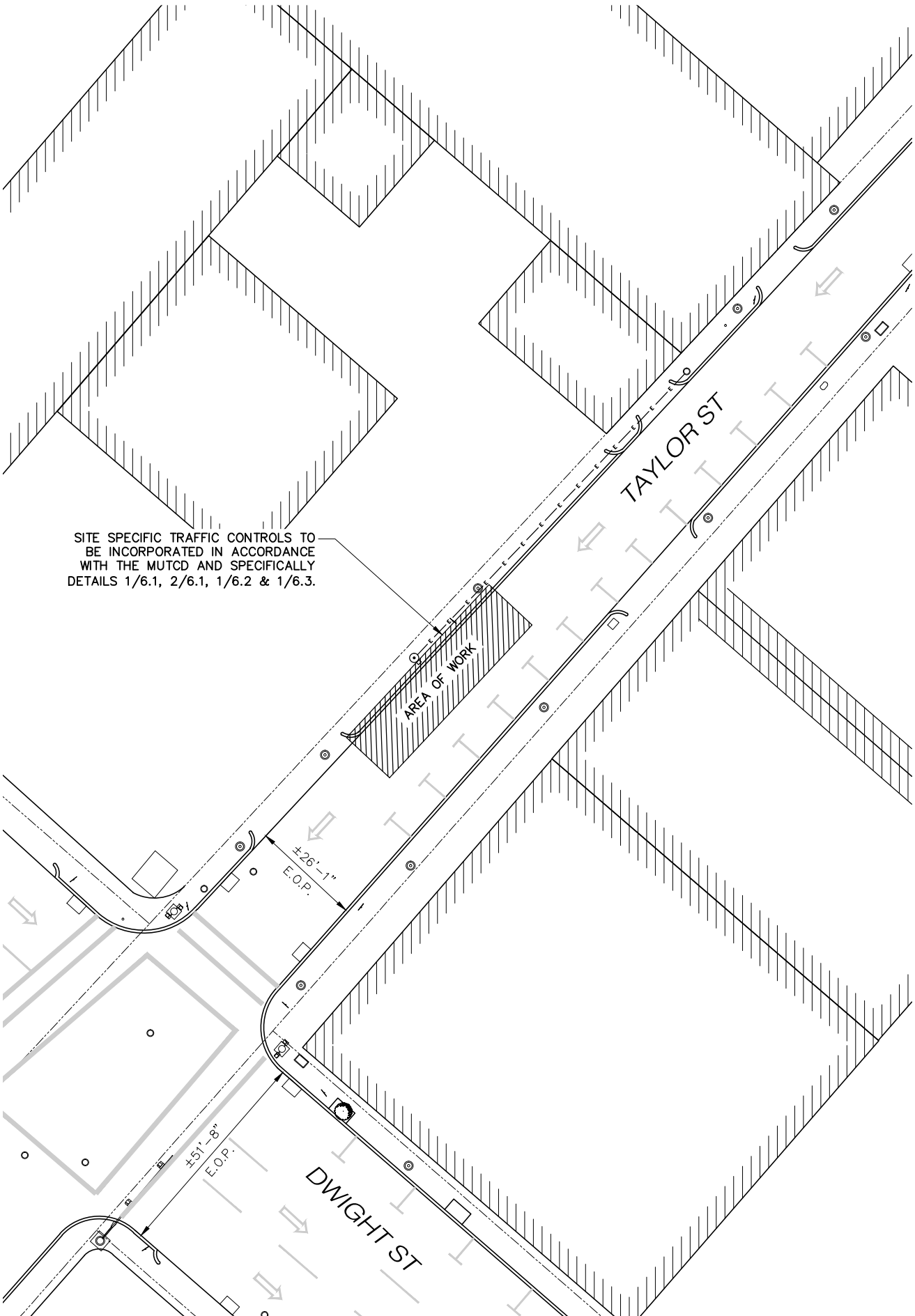


General Notes:

1. Special Conditions may be required in accordance with these notes and the following sheets.
 2. If the Work Area encroaches on the Centerline, use the Layout for Temporary Lane Shift to Shoulder on Sheet 2 only if the Existing Paved Shoulder width is sufficient to provide for an 11' lane between the Work Area and the Edge of Existing Paved Shoulder. Reduce the posted speed when appropriate.
 3. Temporary Raised Rumble Strips:
 - a. Use when both of the following conditions are met concurrently:
 - i. Existing Posted Speed is 50 mph or greater;
 - ii. Work duration is greater than 60 minutes.
 - b. Use a consistent Strip color throughout the work zone.
 - c. Place each Rumble Strip Set transversely across the lane at locations shown.
 - d. Use Option 1 or Option 2 as shown on Sheet 2. Use only one option throughout work zone.
 4. Additional one-way control may be provided by the following means:
 - a. Flag-carrying vehicle;
 - b. Official vehicle;
 - c. Pilot vehicles;
 - d. Traffic signals.
- When flaggers are the sole means of one-way control, the flaggers must be in sight of each other or in direct communication at all times.
5. When a side road intersects the highway within the TTC zone, place additional TTC devices in accordance with other applicable MUTCD guidelines.
 6. The two channelizing devices directly in front of the work area may be omitted provided vehicles in the work area have high-intensity rotating, flashing, oscillating, or strobe lights operating.
 7. When Buffer Space cannot be attained due to geometric constraints, use the greatest attainable length, not less than 200 ft.
 8. Railroad Crossings:
 - a. If an active railroad crossing is located closer to the Work Area than the queue length plus 300 feet, extend the Buffer Space as shown on Sheet 2.
 - b. If the queuing of vehicles across an active railroad crossing cannot be avoided, provide a uniformed traffic control officer or flagger at the highway-rail grade crossing to prevent vehicles from stopping within the highway-rail grade crossing, even if automatic train warning devices are in place.
 9. ROAD WORK AHEAD and the BE PREPARED TO STOP signs may be omitted if all of the following conditions are met:
 - a. Work operations are 60 minutes or less.
 - b. Speed limit is 45 mph or less.
 - c. There are no sight obstructions to vehicles approaching the work area for a distance equal to the Buffer Space shown in Table 1.
 - d. Vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.
 - e. Volume and complexity of the roadway has been considered.
 - f. If a railroad crossing is present, vehicles will not queue across rail tracks.
 - g. AFADs are not in use.
 10. For general TCZ requirements and additional information, refer to MUTCD.
 11. Automated Flagger Assistance Devices (AFADs) may be used in accordance with the Notes on Sheet 3.
 12. For single lane traffic flow, the contractor shall utilize the general layout detailed above and shall comply with the local highway authority having jurisdiction to ensure that sufficient clearance is provided to allow vehicles to pass safely. Contractor shall notify the Engineer if a road closure is deemed necessary.

2 TWO LANE, TWO WAY, WORK WITHIN THE TRAVEL WAY

SCALE: NTS



3 SITE SPECIFIC TRAFFIC CONTROL PLAN

11x17 SCALE: 1/32" = 1'-0" 24x36 SCALE: 1/16" = 1'-0"

mobilitie

PROJECT NO: 9MAB001638
DRAWN BY: RC
CHECKED BY: SJB

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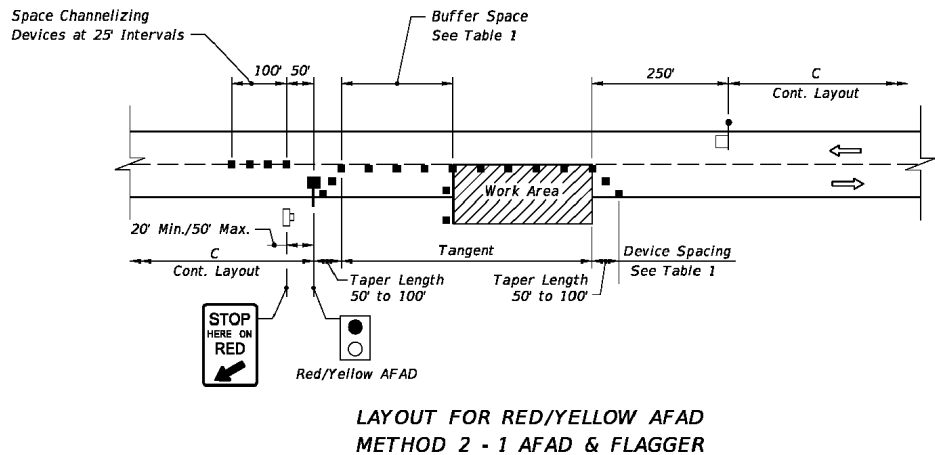
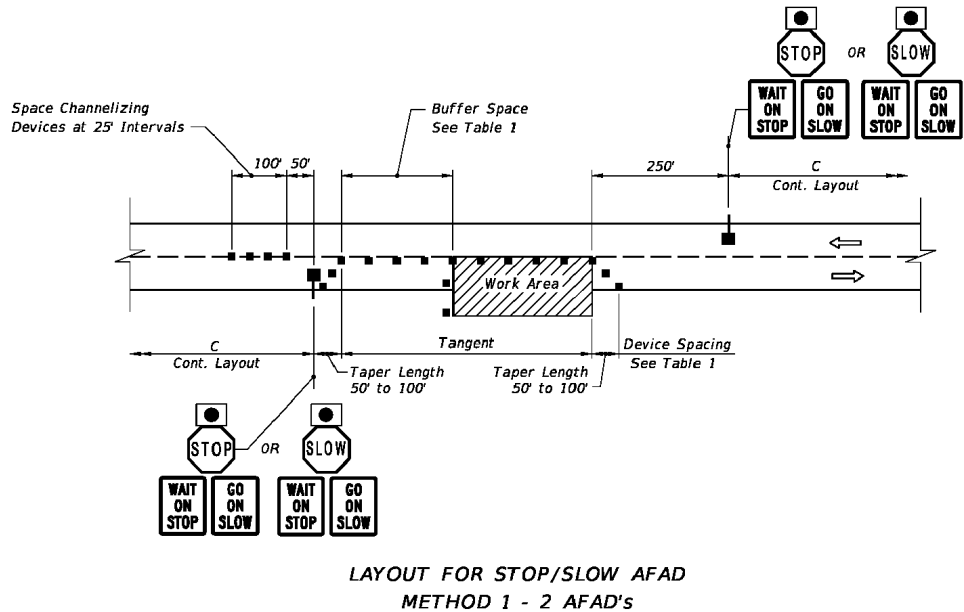
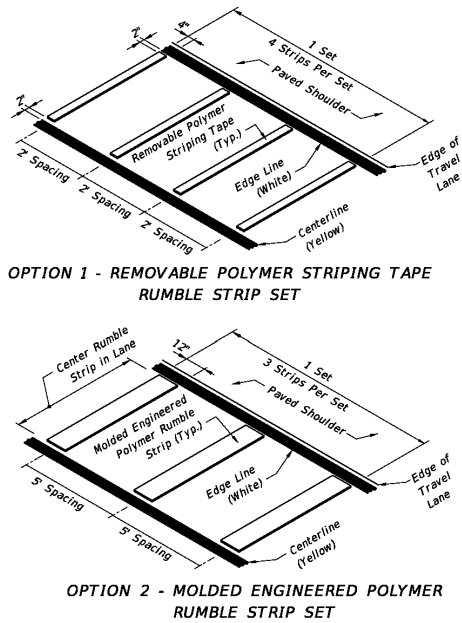
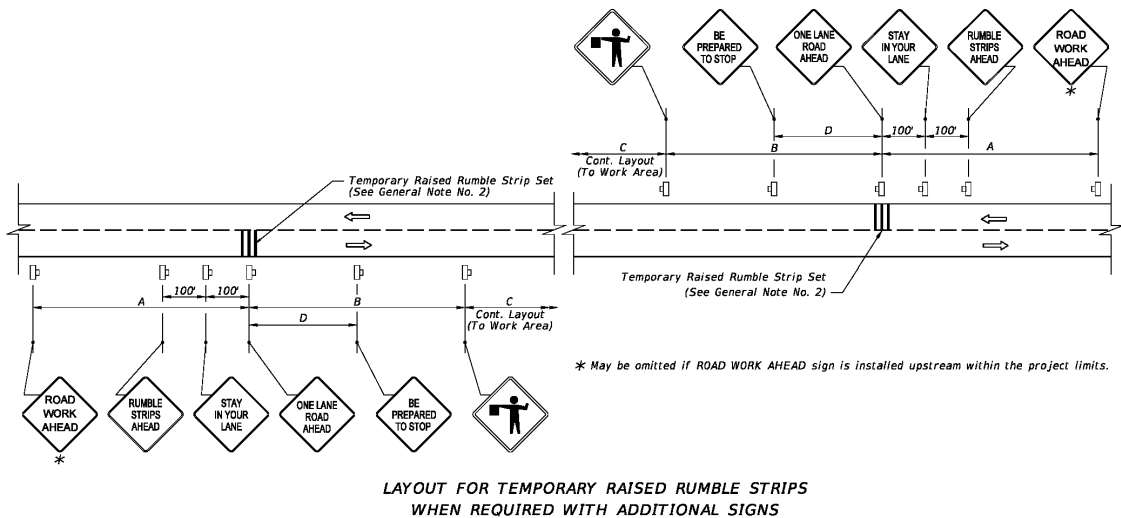
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SHEET TITLE
TRAFFIC CONTROL PLAN

SHEET NUMBER
6.1



AUTOMATED FLAGGER ASSISTANCE DEVICES (AFADs)

AUTOMATED FLAGGER ASSISTANCE DEVICES NOTES

1. *Illuminate the flagging station when the AFAD is used at nighttime.*
2. *When the AFAD is not in use, remove or cover signs and move AFAD device outside the clear zone or shield it with a barrier or crash cushion.*
3. *Only qualified flaggers who have been trained in the operation of the AFAD may operate the AFAD. When in use, each AFAD must be in view of and attended at all times by the flagger operating the device. Use two flaggers and one of the following methods in the deployment of AFAD's:*
 - Method 1: Place an AFAD at each end of the temporary traffic control zone.*
 - Method 2: Place an AFAD at one end of the temporary traffic control zone and a flagger at the opposite end.*
4. *A single flagger may simultaneously operate two AFAD's (Method 1) or may operate a single AFAD on one end of the temporary traffic control zone while being the flagger at the opposite end of the temporary traffic control zone (Method 2) if all four of the following conditions are present:*
 - a. The flagger has an unobstructed view of the AFAD(s);*
 - b. The flagger has an unobstructed view of approaching traffic in both directions;*
 - c. For Method 1, the AFAD's are less than 800 ft apart. For Method 2, the AFAD and the flagger are less than 800 ft apart.*
 - d. Two trained flaggers are available on-site to provide normal flagging operations should an AFAD malfunction.*

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UTILITY POLE

SHEET TITLE

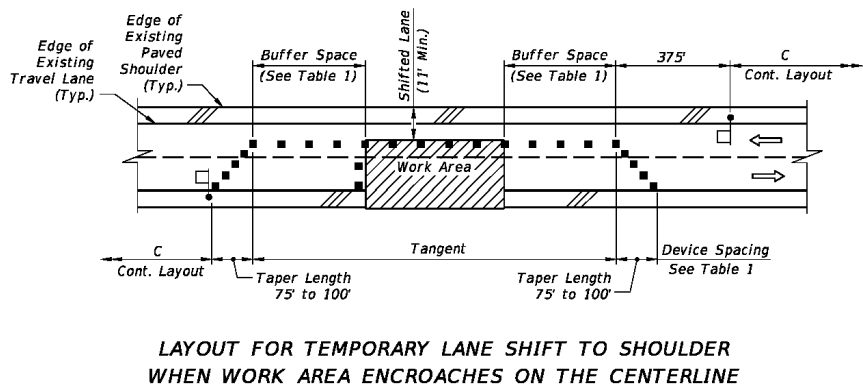
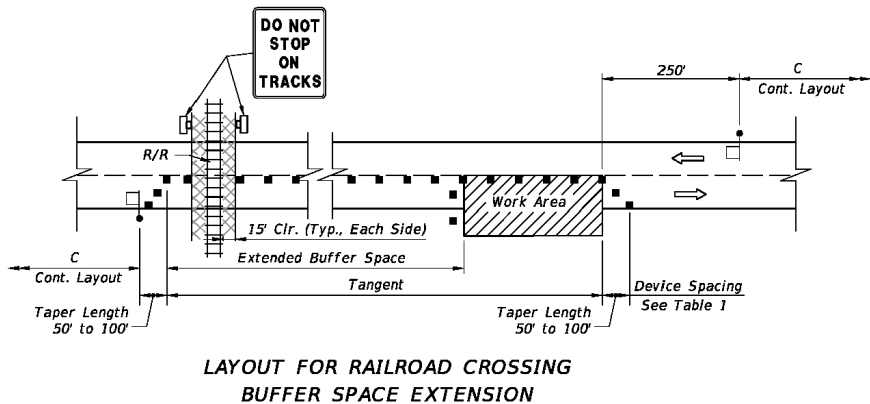
TRAFFIC CONTROL PLAN

SHEET NUMBER

6.2

TEMPORARY RAISED RUMBLE STRIPS

SCALE: NTS



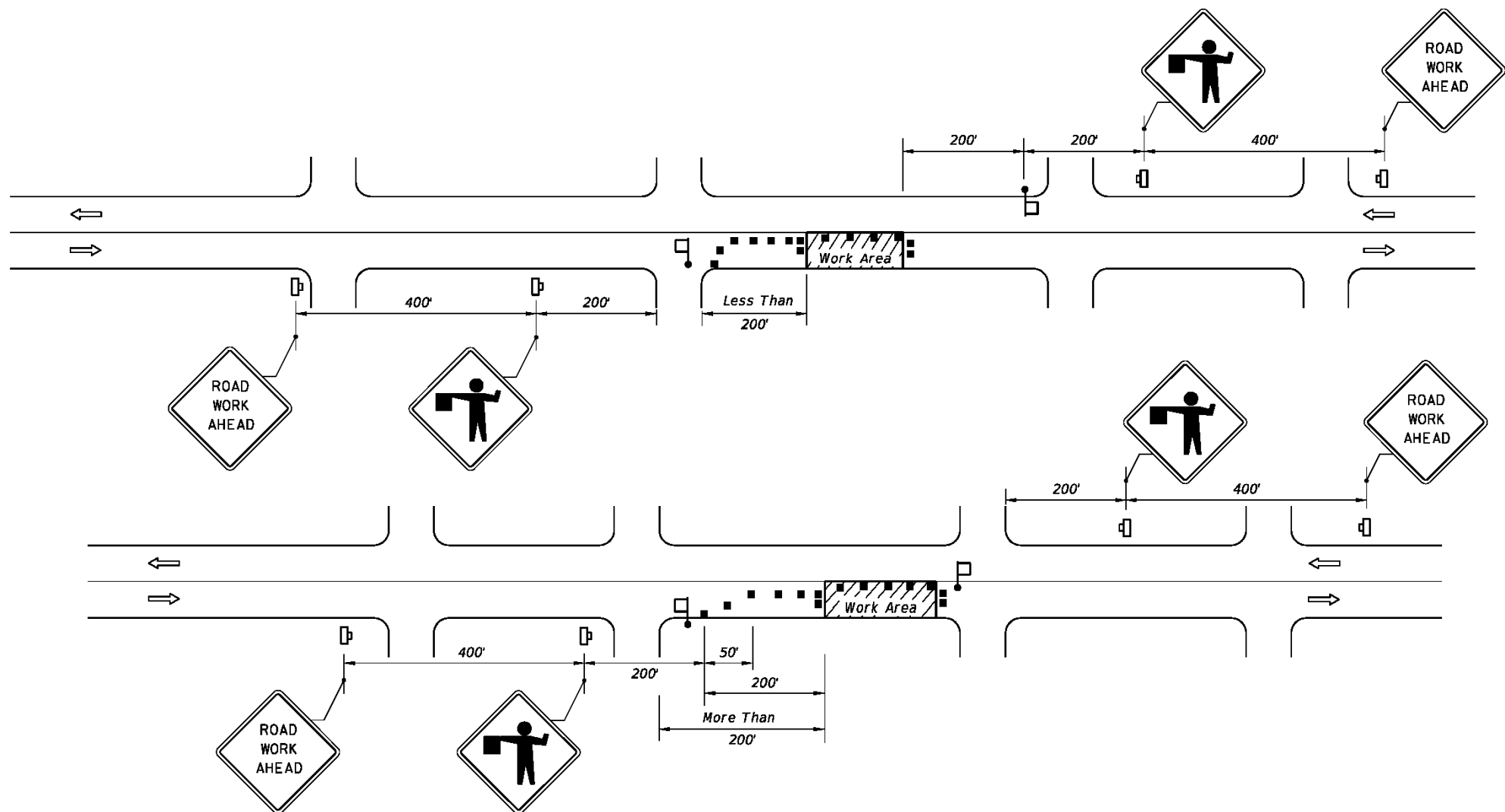
SPECIAL CONDITIONS

SPECIAL CONDITIONS

SCALE: NTS

AUTOMATED FLAGGER ASSISTANCE DEVICES (AFADs)

SCALE: NTS



CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS
OR THEIR ACTIVITIES ENCR OACH ON THE
PAVEMENT REQUIRING THE CLOSURE OF ONE
TRAFFIC LANE, FOR WORK AREAS LESS THAN
200' DOWNSTREAM FROM AN INTERSECTION
FOR A PERIOD OF MORE THAN 60 MINUTES.

CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCR OACH ON THE PAVEMENT REQUIRING THE CLOSURE OF ONE TRAFFIC LANE, FOR WORK AREAS 200' OR MORE DOWNSTREAM FROM AN INTERSECTION FOR A PERIOD OF MORE THAN 60 MINUTES.

GENERAL NOTES

DURATION NOTES

SYMBOLS

- | | |
|---|---|
|  | <i>Work Area</i> |
|  | <i>Channelizing Device</i> |
|  | <i>Work Zone Sign</i> |
|  | <i>Flagger</i> |
|  | <i>Lane Identification + Direction of Traffic</i> |

1. Work operations shall be confined to one travel lane, leaving the opposing travel lane open to traffic.
2. When vehicles in a parking zone block the line of sight to TCZ signs or when TCZ signs encroach on a normal pedestrian walkway, the signs shall be post mounted and located in accordance with MUTCD.
3. If work area is confined to an outside auxiliary lane, the work area shall be barricaded and the FLAGGER signs replaced by ROAD WORK AHEAD signs. Flaggers are not required.
4. Flaggers shall be in sight of each other or in direct communication at all times.
5. The FLAGGER legend sign may be substituted for the symbol sign.
6. The maximum spacing between devices shall be no greater than 25.'
7. For general TCZ requirements and additional information, refer to MUTCD.
8. The two channelizing devices directly in front and directly at the end of the work area may be omitted provided vehicles in the work area have high-intensity flashing, oscillating, or strobe lights operating.
9. Use Temporary Raised Rumble Strips in accordance with Index 603. Placement of Rumble Strips and additional signs should begin at FLAGGER sign location.

1. **ROAD WORK AHEAD** sign may be omitted if all of the following conditions are met:
 - a. Work operations are 60 minutes or less.
 - b. Speed is 45 mph or less.
 - c. No sight obstructions to vehicles approaching the work area for a distance of 600 feet.
 - d. Vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.
 - e. Volume and complexity of the roadway has been considered.

Stephen A. Bray
PROFESSIONAL ENGINEER

PRELIMINARY
NOT FOR CONSTRUCTION

MA LICENSE: 47770

6/14/16

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A LICENSED PROFESSIONAL ENGINEER, TO ALTER
THIS DOCUMENT

BS90XSI52A

TAYLOR ST & DWIGHT ST
SPRINGFIELD, MA 01103

UTILITY POLE

SHEET TITLE

TRAFFIC CONTROL PLAN

SHEET NUMBER

6.3

GLINIAL

THE CONSTRUCTION DOCUMENT DRAWINGS ARE INTERRELATED. WHEN PERFORMING THE WORK, EACH CONTRACTOR MUST REFER TO ALL DRAWINGS. COORDINATION IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

GENERAL REQUIREMENTS

PART 1 – GENERAL

1. OBTAIN AND SUBMIT RELEASES ENABLING THE OWNER UNRESTRICTED USE OF THE WORK AND ACCESS TO SERVICES AND UTILITIES; INCLUDE OCCUPANCY PERMITS, OPERATING CERTIFICATES AND SIMILAR RELEASES.
2. SUBMIT RECORD DRAWINGS, DAMAGE OR SETTLEMENT SURVEY, PROPERTY SURVEY, AND SIMILAR FINAL RECORD INFORMATION.
3. COMPLETE FINAL CLEAN UP REQUIREMENT, INCLUDING TOUCH-UP PAINTING. TOUCH UP AND OTHERWISE REPAIR AND RESTORE MARRED EXPOSED FINISHES.

PART 2 – FINAL CLEANING

1. COMPLETE THE FOLLOWING CLEANING OPERATIONS BEFORE REQUESTING INSPECTION FOR CERTIFICATION ON COMPLETION.
 - A. CLEAN THE PROJECT SITE, YARD AND GROUNDS IN AREAS DISTURBED BY CONSTRUCTION ACTIVITIES, INCLUDING LANDSCAPE DEVELOPMENT AREA, OF RUBBISH, WASTE MATERIALS, LITTER AND FOREIGN SUBSTANCES. SWEEP PAVED AREAS BROOM CLEAN. REMOVE PETRO-CHEMICAL SPILLS, STAINS AND OTHER FOREIGN DEPOSITS. RAKE GROUNDS THAT ARE NEITHER PLANTED NOR PAVED, TO A SMOOTH EVEN-TEXTURED SURFACE.
 - B. REMOVE TOOLS, CONSTRUCTION EQUIPMENT, MACHINERY AND SURPLUS MATERIAL FROM THE SITE.
 - C. REMOVE SNOW AND ICE TO PROVIDE SAFE ACCESS TO THE SITE AND EQUIPMENT ENCLOSURE.
 - D. CLEAN EXPOSED EXTERIOR HARD SURFACED FINISHES TO A DIRT-FREE CONDITION, FREE OF STAINS, FILMS AND SIMILAR FOREIGN SUBSTANCES. AVOID DISTURBING NATURAL WEATHERING OF EXTERIOR SURFACES.
 - E. REMOVE DEBRIS FROM LIMITED ACCESS SPACES, INCLUDING HANDHOLES, MANHOLES, AND SIMILAR SPACES.
 - F. REMOVE LABELS THAT ARE NOT PERMANENT LABELS.
 - G. TOUCH UP AND OTHERWISE REPAIR AND RESTORE MARRED EXPOSED FINISHES AND SURFACES. REPLACE FINISHES AND SURFACES THAT CANNOT BE SATISFACTORILY REPAIRED OR RESTORED, OR THAT SHOW EVIDENCE OF REPAIR OR RESTORATION. DO NOT PAINT OVER "UL" AND SIMILAR LABELS, INCLUDING ELECTRICAL NAME PLATES.
 - H. LEAVE THE PROJECT CLEAN AND READY FOR OCCUPANCY.
 - I. DUST OFF ALL EQUIPMENT AND ITEMS WITHIN EQUIPMENT ENCLOSURE.
2. REMOVAL OF PROTECTION: REMOVE TEMPORARY PROTECTION AND FACILITIES INSTALLED DURING CONSTRUCTION TO PROTECT PREVIOUSLY COMPLETED INSTALLATIONS DURING THE REMAINDER OF THE CONSTRUCTION PERIOD.

SITE WORK

PART 1 – GENERAL

- WORK INCLUDED: SEE SITE PLAN.
2. DESCRIPTIONS: IF APPLICABLE, LEASE AREA, AND UNDERGROUND UTILITY EASEMENTS ARE TO BE CONSTRUCTED TO PROVIDE A WELL DRAINED, EASILY MAINTAINED, EVEN SURFACE FOR USE AND ACCESS.
3. QUALITY ASSURANCE
 - A. APPLY SOIL STERILIZER IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS (AS NEEDED).
 - B. APPLY AND MAINTAIN GRASS SEED AS RECOMMENDED BY THE SEED PRODUCER (IF REQUIRED).
 - C. PLACE AND MAINTAIN VEGETATION LANDSCAPING, IF INCLUDED WITHIN THE CONTRACT, AS RECOMMENDED BY NURSERY INDUSTRY STANDARDS.
4. SEQUENCING
 - A. CONFIRM SURVEY STAKES AND SET ELEVATION STAKES PRIOR TO ANY CONSTRUCTION.
 - B. CONSTRUCT TEMPORARY CONSTRUCTION AREA. DESIGNATED AREA TO BE APPROVED BY CONSTRUCTION MANAGER AND LOCAL AUTHORITIES.
 - C. APPLY SOIL STERILIZER PRIOR TO PLACING BASE MATERIALS.
 - D. GRADE, SEED, FERTILIZE, AND MULCH ALL AREAS DISTURBED BY CONSTRUCTION (INCLUDING UNDERGROUND UTILITY EASEMENTS) IMMEDIATELY AFTER BRINGING LEASE AREA TO BASE COURSE ELEVATION, WATER TO ENSURE GROWTH.
 - E. AFTER APPLICATIONS OF FINAL SURFACES, APPLY SOIL STERILIZER TO STONE SURFACES.

5. SUBMITTALS
- A. BEFORE CONSTRUCTION: IF LANDSCAPING IS APPLICABLE TO THE CONTRACT, SUBMIT TWO COPIES OF THE LANDSCAPE PLAN ON NURSERY LETTERHEAD. IF A LANDSCAPE ALLOWANCE WAS INCLUDED IN THE CONTRACT, PROVIDE AN ITEMIZED LISTING OF PROPOSED COSTS ON NURSERY LETTERHEAD
- B. AFTER CONSTRUCTION
- MANUFACTURER'S DESCRIPTION OF PRODUCT AND WARRANTY STATEMENT ON SOIL STERILIZER.
 - MANUFACTURER'S DESCRIPTION OF PRODUCT ON GRASS SEED AND FERTILIZER.
 - LANDSCAPING WARRANTY STATEMENT

1. WARRANTY
- A. IN ADDITION TO THE WARRANTY ON ALL CONSTRUCTION COVERED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL REPAIR ALL DAMAGE AND RESTORE AREA AS CLOSE TO ORIGINAL CONDITION AS POSSIBLE AT SITE AND SURROUNDINGS.
 - B. SOIL STERILIZATION APPLICATION TO GUARANTEE VEGETATION FREE AREAS FOR ONE YEAR FROM DATE OF FINAL INSPECTION.
 - C. DISTURBED AREA WILL REFLECT GROWTH OF NEW GRASS COVER PRIOR TO FINAL INSPECTION.
 - D. LANDSCAPING, IF INCLUDED WITHIN THE SCOPE OF THE CONTRACT, WILL BE GUARANTEED FOR ONE YEAR FROM DATE OF FINAL INSPECTION.

PART 2 – PRODUCTS

1. MATERIALS
- A. SOIL STERILIZER SHALL BE EPA-REGISTERED, PRE-EMERGENCE LIQUID:
- | | |
|----------------|--------------------|
| TOTAL KILL | PHASAR CORPORATION |
| PRODUCT 910 | P.O. BOX 5123 |
| EPA 10292-7 | DEARBORN, MI 48128 |
| (313) 563-8000 | |
- AMBUSH HERBICIDE
EPA REGISTERED
- FRAMAR INDUSTRIAL PRODUCTS
1435 MORRIS AVE.
UNION, NJ 07083
- (800) 526-4924
- B. ROAD AND SITE MATERIALS SHALL CONFORM TO STATE AND LOCAL DOT SPECIFICATIONS FILL MATERIAL (UNLESS OTHERWISE NOTED) - ACCEPTABLE SELECT FILL SHALL BE IN ACCORDANCE WITH STATE DEPARTMENT OF HIGHWAY AND TRANSPORTATION STANDARD SPECIFICATIONS.
- C. SOIL STABILIZER FABRIC SHALL BE MIRAFI 500X.

PART 3 – EXECUTION

- INSPECTIONS: LOCAL BUILDING INSPECTORS SHALL BE NOTIFIED NO LESS THAN 48 HOURS IN ADVANCE OF CONCRETE POURS, UNLESS OTHERWISE SPECIFIED BY JURISDICTION
2. PREPARATION
- A. CLEAR BRUSH AND DEBRIS FROM LEASE AREA AND UNDERGROUND UTILITY EASEMENTS AS REQUIRED FOR CONSTRUCTION.
 - B. UNLESS OTHERWISE INSTRUCTED BY LESSEE, TRANSPORT ALL REMOVED TREES, BRUSH AND DEBRIS FROM THE PROPERTY TO AN AUTHORIZED LANDFILL.
 - C. PRIOR TO PLACEMENT OF FILL OR BASE MATERIALS, ROLL THE SOIL.
 - D. WHERE UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED, LINE THE AREAS WITH STABILIZER MAT PRIOR TO PLACEMENT OF FILL OR BASE MATERIAL.
3. INSTALLATION
- A. CLEAR EXCESS SPOILS, IF ANY, FROM JOB SITE AND DO NOT SPREAD BEYOND THE LIMITS OF PROJECT AREA UNLESS AUTHORIZED BY PROJECT MANAGER AND AGREED TO BY LANDOWNER.
 - B. PLACE FILL OR STONE IN SIX INCH (6") MAXIMUM LIFTS, AND COMPACT BEFORE PLACING NEXT LIFT.
 - C. APPLY SEED, FERTILIZER, AND STRAW COVER TO ALL OTHER DISTURBED AREAS, DITCHES, AND DRAINAGE SWALES, NOT OTHERWISE RIPRAPPED.
 - D. APPLY SEED AND FERTILIZER TO SURFACE CONDITIONS WHICH WILL ENCOURAGE ROOTING. RAKE AREAS TO BE SEED TO EVEN THE SURFACE AND LOOSEN THE SOIL.
 - E. SOW SEED IN TWO DIRECTIONS IN TWICE THE QUANTITY RECOMMENDED BY THE SEED PRODUCER.
 - F. ENSURE GROWTH OF SEEDED AND LANDSCAPED AREA, BY WATERING, UP TO THE POINT OF RELEASE FROM THE CONTRACT. CONTINUE TO REWORK THE BARE AREAS UNTIL COMPLETE COVERAGE IS OBTAINED.
4. FIELD QUALITY CONTROL: COMPACT SOILS TO MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D-1557. AREAS OF SETTLEMENT WILL BE EXCAVATED AND REFILLED AT CONTRACTOR'S EXPENSE. INDICATE PERCENTAGE OF COMPACTION ACHIEVED ON AS-BUILT DRAWINGS.
5. PROTECTION
- A. PROTECT SEEDED AREAS FROM EROSION BY SPREADING STRAW TO A UNIFORM LOOSE DEPTH OF 1-2 INCHES, STAKE AND TIE DOWN AS REQUIRED. USE OF EROSION CONTROL MESH OR MULCH NET WILL BE AN ACCEPTABLE ALTERNATE.
 - B. PROTECT ALL EXPOSED AREAS AGAINST WASHOUTS AND SOIL EROSION. PLACE STRAW BALES AT THE INLET APPROACH TO ALL NEW OR EXISTING CULVERTS. WHERE THE SITE OR ROAD AREAS HAVE BEEN ELEVATED IMMEDIATELY ADJACENT TO THE RAIL LINE, STAKE EROSION CONTROL FABRIC FULL LENGTH IN THE SWALE TO PREVENT CONTAMINATION OF THE RAIL BALLAST. ALL EROSION CONTROL METHODS SHALL CONFORM TO APPLICABLE BUILDING CODE REQUIREMENTS.



PROJECT NO:	9MAB001638
DRAWN BY:	RC
CHECKED BY:	SJB

A	06-14-16	FOR CLIENT REVIEW

KMB DESIGN GROUP, LLC

Stephen A. Bray
PROFESSIONAL ENGINEER

PRELIMINARY
NOT FOR CONSTRUCTION

MA LICENSE: 47770 6/14/16

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BS90XSI52A

TAYLOR ST & DWIGHT ST
SPRINGFIELD, MA 01103

UTILITY POLE

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

GN-1

ELECTRICAL

1. CONTRACTOR SHALL REVIEW THE CONTRACT DOCUMENTS PRIOR TO ORDERING THE ELECTRICAL EQUIPMENT AND STARTING THE ACTUAL CONSTRUCTION. CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE ARCHITECT/ENGINEER LISTING ANY DISCREPANCIES OR CONFLICTING INFORMATION.
2. ELECTRICAL PLANS, DETAILS AND DIAGRAMS ARE DIAGRAMMATIC ONLY. VERIFY EXACT LOCATIONS AND MOUNTING HEIGHTS OR ELECTRICAL EQUIPMENT WITH OWNER PRIOR TO INSTALLATION.
3. EACH CONDUCTOR OF EVERY SYSTEM SHALL BE PERMANENTLY TAGGED IN EACH PANELBOARD, PULLBOX, JUNCTION BOX, SWITCH BOX, ETC. THE TYPE OF TAGGING METHODS SHALL BE IN COMPLIANCE WITH OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (O.S.H.A.)
4. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN GOOD WORKING CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. MATERIALS SHALL BE LISTED "U.L." WHERE APPLICABLE. MATERIALS SHALL MEET WITH APPROVAL OF ALL GOVERNING BODIES HAVING JURISDICTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA, NBFU AND "U.L." LISTED.
5. ALL CONDUIT SHALL HAVE A PULL CORD.
6. PROVIDE PROJECT MANAGER WITH ONE SET OF COMPLETE ELECTRICAL "AS INSTALLED" DRAWINGS AT THE COMPLETION OF THE JOB, SHOWING ACTUAL DIMENSIONS, ROUTINGS, AND CIRCUITS.
7. ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED, AND A MINIMUM OF 10,000 A.I.C.
8. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY IBC, NEC AND ALL APPLICABLE CODES.
9. PATCH, REPAIR AND PAINT ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF THE ELECTRICAL WORK.
10. PLASTIC PLATES FOR ALL SWITCHES, RECEPTACLES, TELEPHONE AND BLANKED OUTLETS SHALL HAVE ENGRAVED LETTERING WHERE INDICATED ON THE DRAWINGS. WEATHERPROOF RECEPTACLES SHALL HAVE SIERRA #WPD-8 LIFT COVERPLATES.

SERVICE AND DISTRIBUTION

- WIRE AND CABLE CONDUCTORS SHALL BE COPPER, 600V, TYPE THHN OR THWN, WITH A MIN. SIZE OF #12 AWG, COLOR CODED.
- METER SOCKET AMPERES, VOLTAGE, NUMBER OF PHASES SHALL BE NOTED ON THE DRAWINGS. MANUFACTURED BY MILBANK OR APPROVED EQUAL, AND SHALL BE UTILITY COMPANY APPROVED.
- CONDUIT:
 - RIGID CONDUIT SHALL BE U.L. LABEL GALVANIZED ZINC COATED WITH GALVANIZED ZINC INTERIOR AND SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS, IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS OR EXPOSED ON BUILDING EXTERIOR. RIGID CONDUIT IN CONTACT WITH EARTH SHALL BE 1/2 LAPPED WRAPPED WITH HUNTS WRAP PROCESS NO. 3.
 - FLEXIBLE METALLIC CONDUIT SHALL HAVE U.L. LISTED LABEL AND MAY BE USED WHERE PERMITTED BY CODE. FITTINGS SHALL BE "JAKE" OR "SQUEEZE" TYPE. ALL FLEXIBLE CONDUITS SHALL HAVE FULL LENGTH GROUND WIRE.
 - IT IS REQUIRED AND WILL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO NOTIFY 811 OR OTHER SUCH UTILITY LOCATING AGENCY 3 DAYS BEFORE DIGGING.
- CONTRACTOR TO COORDINATE WITH UTILITY COMPANY FOR CONNECTION OF TEMPORARY AND PERMANENT POWER TO THE SITE. THE TEMPORARY POWER AND ALL HOOKUP COSTS ARE TO BE PAID BY THE CONTRACTOR.
- ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENT ENGRAVED PLASTIC LABELS WITH WHITE ON BLUE BACKGROUND LETTERING (MINIMUM LETTER HEIGHT SHALL BE ONE FOURTH INCH (1/4")). NAMEPLATES SHALL BE FASTENED WITH STAINLESS STEEL SCREWS, NOT ADHESIVE.
- UPON COMPLETION OF WORK, CONTINUITY, SHORT CIRCUIT, AND FALL POTENTIAL GROUNDING TESTS BY AN INDEPENDENT TESTING SERVICE ENGAGED BY THE CONTRACTOR SHALL BE SUBMITTED FOR APPROVAL. SUBMIT TEST REPORTS TO PROJECT MANAGER. CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION.
- GROUNDING ELECTRODE SYSTEM
 - PREPARATION
 - SURFACE PREPARATION: ALL CONNECTIONS SHALL BE MADE TO BARE METAL. ALL PAINTED SURFACES SHALL BE FIELD INSPECTED AND MODIFIED TO ENSURE PROPER CONTACT. NO WASHERS ARE ALLOWED BETWEEN THE ITEMS BEING GROUNDED. ALL CONNECTIONS ARE TO HAVE A NON-OXIDIZING AGENT APPLIED PRIOR TO INSTALLATION.
 - IF CONDUCTORS MUST RUN THROUGH CONDUIT, BOTH ENDS OF CONDUIT SHALL BE GROUNDED. SEAL BOTH ENDS OF CONDUIT WITH SILICONE CAULK.
 - EXTERNAL CONNECTIONS
 - ALL BURIED GROUNDING CONNECTIONS SHALL BE MADE BY THE EXOTHERMIC WELD PROCESS. CONNECTIONS SHALL INCLUDE ALL CABLE TO CABLE, SPLICES, TEE'S, CROSSES, ETC. ALL CABLE TO GROUND RODS, GROUND ROD SPLICES AND LIGHTNING PROTECTION SYSTEMS ARE TO BE AS INDICATED. ALL MATERIALS USED (MOLDS, WELDING METAL, TOOLS, ETC.) SHALL BE BY "ULTRAWELD" AND INSTALLED PER MANUFACTURER'S RECOMMENDED PROCEDURES.
 - ALL ABOVE GRADE GROUNDING AND BONDING CONDUCTORS SHALL BE CONNECTED BY TWO HOLE CRIMP TYPE (COMPRESSION) CONNECTIONS (EXCEPT FOR THE ACEG AND GROUND ROD). MECHANICAL CONNECTIONS, FITTINGS OR CONNECTIONS THAT DEPEND SOLELY ON SOLDER SHALL NOT BE USED. ALL CABLE TO CABLE CONNECTIONS SHALL BE HIGH PRESSURE DOUBLE CRIMP TYPE CONNECTIONS. CONNECTIONS TO STRUCTURAL STEEL SHALL BE EXOTHERMIC WELDS.

- C. GROUND RODS: ALL GROUND RODS SHALL BE 5/8-INCH DIAMETER X 10'-0" LONG "COPPERWELD" OR APPROVED EQUAL, OF THE NUMBER AND LOCATIONS INDICATED. GROUND RODS SHALL BE GIVEN FULL LENGTH VERTICAL IN UNDISTURBED EARTH.
- D. GROUND CONDUCTORS: ALL GROUND CONDUCTORS SHALL BE STANDARD TINNED SOLID BARE COPPER ANNEALED, AND OF SIZE INDICATED ON DRAWINGS UNLESS OTHERWISE NOTED.
- E. LUGS
- LUGS SHALL BE 2-HOLE, LONG BARREL, STRAND COPPER UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS. LUGS SHALL BE THOMAS AND BETTS SERIES #54____BE OR EQUIVALENT

A.	535	MCM	DLO	54880BE
B.	262	MCM	DLO	54872BE
C.	#1/0	DLO		54862BE
D.	#4/0	THWN	AND BARE	54866BE
E.	#2/0	THWN		54862BE
F.	#2	THHN		54207BE
G.	#6	DLO		54205BE

- WHEN THE DIRECTION OF THE CONDUCTOR MUST CHANGE, IT SHALL BE DONE GRADUALLY. THE CURVATURE OF THE TURN SHALL BE DONE IN ACCORDANCE WITH THE FOLLOWING CHART:

<u>GROUNDING CONDUCTOR SIZE</u>	<u>MINIMUM BENDING RADIUS TO INSIDE EDGE</u>
NO. 6 AWG TO NO. 4 AWG	6 INCHES
NO. 2 AWG TO NO 1/0 AWG	8 INCHES
NO. 2/0 AWG TO 4/0 AWG	12 INCHES
250 MCM TO 750 MCM	24 INCHES

8. GROUNDING RESISTANCE TEST REPORT: UPON COMPLETION OF THE TESTING FOR EACH SITE, A TEST REPORT SHOWING RESISTANCE IN OHMS MUST BE SUBMITTED. TWO (2) SETS OF TEST DOCUMENTS FROM THE INDEPENDENT TESTING SERVICE ARE TO BE BOUND AND SUBMITTED WITHIN ONE (1) WEEK OF WORK COMPLETION.

POLES, POSTS, AND STANDARDS
(SINGLE MAST AND SELF SUPPORTING TOWERS)

1. GENERAL
 - A. LIGHTNING ROD AND EXTENSION PIPE INCLUDING ALL APPURTENANCES, TO BE FURNISHED BY OWNER, IF REQUIRED.
 - B. GROUNDING: GROUND METAL POLES WITH A MINIMUM OF #2 AWG TINNED SOLID BARE COPPER CONDUCTOR CADWELDED TO TOWER BASE PLATE.

TELECOMMUNICATIONS WIRING COMPONENTS (COAXIAL ANTENNA CABLE)

1. GENERAL
 - A. ALL MATERIALS, PRODUCTS OR PROCEDURES INCORPORATED INTO WORK SHALL BE NEW AND OF STANDARD COMMERCIAL QUALITY.
 - B. ALL MATERIALS AND PRODUCTS SPECIFIED IN THE CONTRACT DOCUMENTS SHALL BE SUPPLIED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.
2. MATERIALS:
 - A. COAXIAL CABLE:
 - INSTALL COAXIAL CABLE AND TERMINATIONS BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS WITH COAXIAL CABLES SUPPORTED AT NO MORE THAN 3'-0" O.C. WEATHERPROOF ALL CONNECTORS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE FEET (3') IN EXCESS OF EQUIPMENT LOCATION UNLESS OTHERWISE STATED.
 - LENGTHS LESS THAN OR EQUAL TO 100 FEET SHALL BE 7/8".
3. ANTENNA AND COAXIAL CABLE GROUNDING
 - A. ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS)
4. COAXIAL CABLE IDENTIFICATION
 - A. TO PROVIDE EASY IDENTIFICATION AND UNIFORM MARKING OF ANTENNA CABLING, PLASTIC TAGS SHALL BE USED AT THE FOLLOWING LOCATIONS:
 - FIRST LOCATION IS AT THE END OF THE COAX NEAREST THE ANTENNA (WHERE THE COAXIAL CABLE AND JUMPER ARE CONNECTED).
 - SECOND LOCATION IS AT END OF THE COAX NEAREST THE EQUIPMENT.
 - B. USE ANDREW CABLE TIES (PT.# 27290) TO SECURE IDENTIFICATION TAGS.
 - TESTING: LESSEE SHALL PROVIDE AN INDEPENDENT TESTING AGENCY TO PERFORM THE COAXIAL SWEEP TEST & REPORT. THE CONTRACTOR IS TO PROVIDE ONE LIMBER/QUALIFIED PERSONNEL TO ASSIST IN ANY REPAIRS AND WEATHERPROOFING ONCE THE TEST IS COMPLETE. THE CONTRACTOR IS TO PROVIDE LESSEE WITH A MINIMUM OF 48 HOURS NOTICE PRIOR TO THE TIME OF THE SWEEP TEST.



PROJECT NO:	9MAB001638
DRAWN BY:	RC
CHECKED BY:	SJB

A	06-14-16	FOR CLIENT REVIEW
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KMB DESIGN GROUP, LLC

Stephen A. Bray
PROFESSIONAL ENGINEER

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BS90XSI52A

TAYLOR ST & DWIGHT ST
SPRINGFIELD, MA 01103

UTILITY POLE

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

GN-2



August 28, 2016

Pat Garrity
Permit Coordinator
Engineering Division of DPW
City of Springfield
413-787-6584

RE: Mobilitie, LLC Permit Application Submission – BS90XSI52A_9MAB001638, BS90XSI51B_9MAB001637, BS90XSI50B_9MAB001636, BS90XSI49B_9MAB001635

Dear Mr. Garrity:

Please find Mobilitie, LLC's Highway Permit Applications for four (4) proposed new utility infrastructure facilities in your jurisdiction. Along with the attached permit applications, you will also find construction drawings and photo simulations for the said facility.

Mobilitie, LLC is a licensed telecommunication carrier regulated by the Massachusetts Department of Public Utilities to provide telephone related services, such as facilities based competitive local exchange and interexchange services. To meet the growing demand for connectivity, Mobilitie, LLC is deploying a hybrid transport network that provides high-speed, high-capacity bandwidth in order to facilitate the next generation of devices and data-driven services. This network can support a variety of technologies and services that require connectivity to the internet, including, but not limited to, driverless and connected vehicles (commercial, personal and agricultural), remote weather stations and mobile service providers. These transport utility poles and facilities are not dedicated to any particular customer, and, to the extent capacity on the structures is available, are available to be used by other entities, including the City of Springfield.

Mobilitie, LLC plans to construct the applied for utility infrastructure within the next 18 months and formally requests that the Department identify a single point of contact to streamline the communications process, regarding the application, for the benefit of both parties.

Mobilitie, LLC's hybrid transport network is an industry changing approach that seeks to improve backhaul connectivity for Massachusetts' residents. We are excited to work with the City of Springfield and are available to answer questions. Please do not hesitate to contact Rossana Ferrante, Permitting Manager, at 857-408-3141 / Rferrante@mobilitie.com or myself at (404)-391-4025 / sschneider@mobilitie.com.

Thank you for your attention to this matter.

Respectfully submitted,

Scott Schneider
Network Real Estate Specialist

*Enclosures

Attachment: BS90XSI52A_LUPCOVLET_20160823_A (3671 : Taylor Street (Mobilitie))

**DEPARTMENTAL AND INTERDEPARTMENTAL CORRESPONDENCES
CITY OF SPRINGFIELD
MASSACHUSETTS**

DATE: September 12, 2016

TO: Anthony I Wilson, Esq.
City Clerk

FROM: Hector Velez, DPW Engineer
on behalf of BPW

DEPARTMENT: City Clerk Office

SUBJECT: Board's agenda for:
September 26, 2016

NOTICE OF MEETING

Monday, September 26, 2016

5:00 P.M., at the corner of Dwight Street & Taylor Street, Springfield, MA.

5:15 P.M., at the corner of Dwight Street & Bridge Street (Parking lot of Center Stage),
Springfield, MA.

5:30 P.M., at the corner of Bridge & Main Street, Springfield, MA.

5:45 P.M., at Union Station, Frank B. Murray Street, Springfield, MA.

Minutes of Previous Meeting
Communications
Old Business

MOBILITIE

New Business: **Taylor Street, Bridge Street, Frank B. Murray.**

HEARING RE: To install new utility pole to
Provide high-speed network.

Attachment: 9-26-2016 notice MOBILITIE (3671 : Taylor Street (Mobilitie))



City Council
36 Court Street
Springfield, MA 01103

Meeting: 10/03/16 07:00 PM
Department: Department of Public Works
Category: General
Prepared By: Hector Velez
Initiator: Hector Velez
Sponsors: Mayor Domenic J. Sarno
DOC ID: 3672

TABLED

PETITION (ID # 3672)

Dwight Street (Mobilitie)

CITY OF SPRINGFIELD, MASSACHUSETTS

Date: September 27, 2016

TO THE MAYOR AND CITY COUNCIL OF THE CITY OF SPRINGFIELD:

The Board of Public Works, to which was referred the petition of Mobilitie dated August 2, 2016 to install a high-speed network antenna on Dwight Street. Forty five (45') feet network antenna will be install north side of Dwight Street, to be located on the sidewalk approximately thirty-two (32') feet from Bridge Street southeasterly direction. The purpose of the high speed network antenna is to provide wireless service around the area, all as substantially shown on a plan attached, referred to BS90XS151B Dwight & Bridge Street, which is incorporated herein by reference and to lay and maintain underground laterals, cables and wires in the above public ways for the purpose of making connections with the pole as it may desire for distributing purposes, reports thereon as follows:

By virtue of Chapter 708 of the Acts of 1977 the Board of Public Works held the hearing on the above matter provided for in Section 22 of Chapter 166 of the General Laws. The hearing was held on September 26, 2016 at 5:15 P.M. at the corner of Dwight Street & Bridge Street (Parking lot of Center Stage) Springfield, MA. Three (3) members of the Board and two (2) persons interested in the matter were present. Of the latter, two (2) voted in favor of and no-one (0) voted against.

The Board finds the request necessary in order to provide high speed wireless network service to the business around the area.

After careful consideration, the Board recommends the petition be granted provided:

That due care for public safety is exercised during construction including but not limited to the use of a police officer(s) for traffic control if necessary.

That said construction would not unnecessarily interfere with the movement of vehicular or pedestrian traffic in the area.

That care be taken during said construction not to damage any underground services.

That the construction site be returned to the same condition as found or better.

Said company shall indemnify and save harmless against all damages, costs and expenses whatsoever to which the City may be subjected in consequence of the acts or neglect of said Company, its agents or servants, or in any manner arising from the rights and privileges granted it by the City.

In addition said company shall, before a public way is disturbed for the laying of its wire or conduit, execute its bond in the penal sum of Ten Thousand Dollars (\$10,000) conditioned for faithful performance of its duties under this permit.

Said company shall comply with the requirements of existing Ordinances and orders and comply with any changes in Ordinances and orders as may hereafter be adopted by the Mayor and Council governing the construction and maintenance of buried cable, conduits and wires.

That any sidewalks that are damaged or removed will be replaced in kind and in accordance with the City of Springfield's Standard Specifications.

That ramps for the handicapped will be provided if and where required by law and in conformance with the Rules and Regulations of the Massachusetts Architectural Barrier Board.

That any curbing that is disturbed during construction will be reset to the established street grade using proper construction procedures.

That due care be exercised not to unnecessarily damage any public shade trees located within the construction area.

That the Springfield Water and Sewer Commission be notified before construction begins. All installations of adjacent utilities must be a minimum of 4 feet from the existing water and/or sewer main, edge to edge of pipe.

That all conditions set forth in the respective order are complied with.

_____)
 _____) BOARD OF PUBLIC WORKS
 _____)

RESULT: REFER TO COMMITTEE**Next: 10/17/2016 7:00 PM**

**DEPARTMENTAL AND INTERDEPARTMENTAL CORRESPONDENCES
CITY OF SPRINGFIELD
MASSACHUSETTS**

DATE: September 12, 2016

TO: Anthony I Wilson, Esq.
City Clerk

FROM: Hector Velez, DPW Engineer
on behalf of BPW

DEPARTMENT: City Clerk Office

SUBJECT: Board's agenda for:
September 26, 2016

NOTICE OF MEETING

Monday, September 26, 2016

5:00 P.M., at the corner of Dwight Street & Taylor Street, Springfield, MA.

5:15 P.M., at the corner of Dwight Street & Bridge Street (Parking lot of Center Stage),
Springfield, MA.

5:30 P.M., at the corner of Bridge & Main Street, Springfield, MA.

5:45 P.M., at Union Station, Frank B. Murray Street, Springfield, MA.

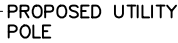
Minutes of Previous Meeting
Communications
Old Business

MOBILITIE

New Business: **Taylor Street, Bridge Street, Frank B. Murray.**

HEARING RE: To install new utility pole to
Provide high-speed network.

Attachment: 9-26-2016 notice MOBILITIE (3672 : Dwight Street (Mobilitie))



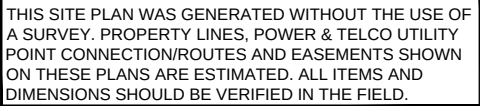
1 EXHIBIT PHOTO

SCALE: NTS



2	AERIAL SITE LOCATION
---	-----------------------------

SCALE: NTS



mobilitie

PROJECT NO:	9MAB001637
DRAWN BY:	RC
CHECKED BY:	SJB

A	06-14-16	FOR CLIENT REVIEW

KMB DESIGN GROUP, LLC

Stephen A. Bray
PROFESSIONAL ENGINEER

PRELIMINARY
NOT FOR CONSTRUCTION

MA LICENSE: 47770 6/14/16

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BS90XSI51B

DWIGHT ST & BRIDGE ST
SPRINGFIELD, MA 01103

UTILITY POLE

SHEET TITLE

SITE PLAN & EXHIBIT PHOTO

SHEET NUMBER

1.0

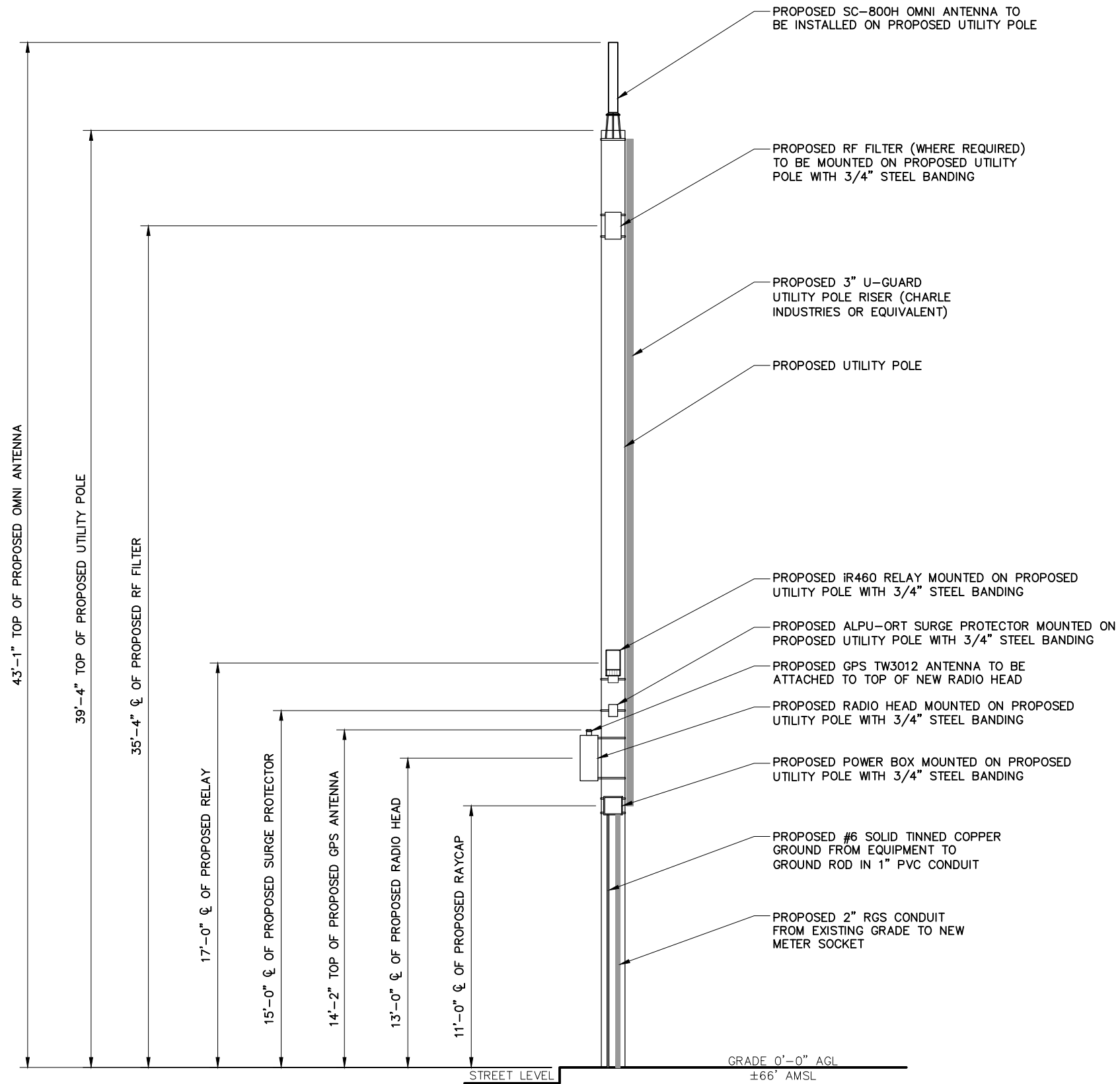
3	ENLARGED SITE PLAN
---	--------------------

11x17 SCALE: 1/32" = 1'-0"

24x36 SCALE: 1/16" = 1'-0"

NO. 1.
KMB DESIGN GROUP, LLC HAS NOT PERFORMED A FULL
STRUCTURAL ANALYSIS ON THE POLE AND MOUNTS AS
PART OF THIS SUBMITTAL. STRUCTURAL ANALYSIS
REPORT TO BE PROVIDED UNDER SEPARATE COVER AND
OBTAINED BY CONTRACTOR PRIOR TO CONSTRUCTION.

Attachment: BS90XSIS1B_CONSTDWGS90_20160614_A1P (3672 : Dwight Street (Mobilitie))



PROJECT NO:	9MAB001637
DRAWN BY:	RC
CHECKED BY:	SJB

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BS90XS151B

DWIGHT ST & BRIDGE ST
SPRINGFIELD, MA 01103

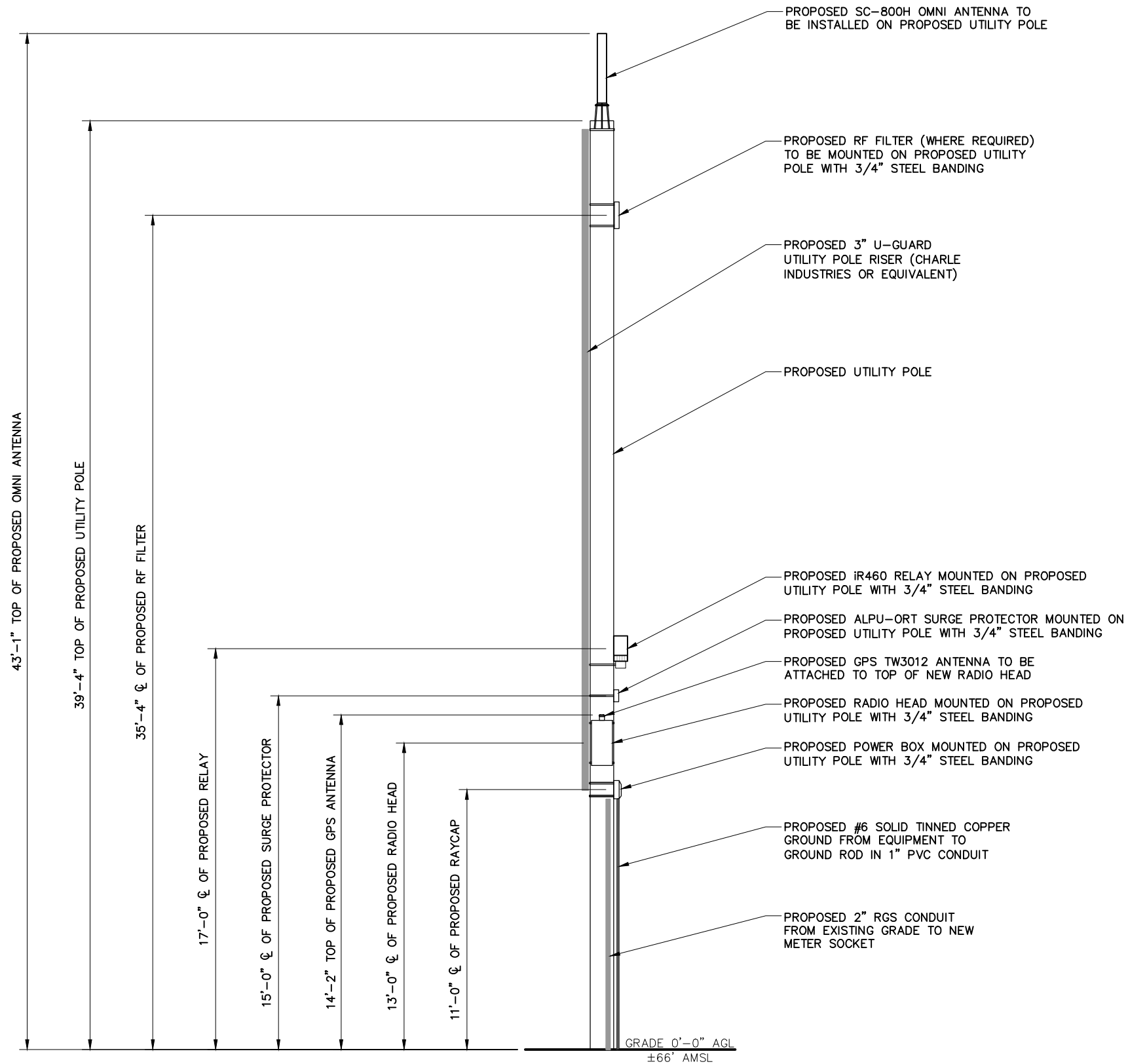
UTILITY POLE

SHEET TITLE

POLE ELEVATION

SHEET NUMBER
2.0

NO. 1.
KMB DESIGN GROUP, LLC HAS NOT PERFORMED A FULL
STRUCTURAL ANALYSIS ON THE POLE AND MOUNTS AS
PART OF THIS SUBMITTAL. STRUCTURAL ANALYSIS
REPORT TO BE PROVIDED UNDER SEPARATE COVER AND
OBTAINED BY CONTRACTOR PRIOR TO CONSTRUCTION.



PROJECT NO:	9MAB001637
DRAWN BY:	RC
CHECKED BY:	SJB

A	06-14-16	FOR CLIENT REVIEW
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BS90XSI51B

DWIGHT ST & BRIDGE ST
SPRINGFIELD, MA 01103

UTILITY POLE

SHEET TITLE

POLE ELEVATION

SHEET NUMBER
2.1



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BS90XSI51B

DWIGHT ST & BRIDGE ST
SPRINGFIELD, MA 01103

UTILITY POLE

DWIGHT ST & BRIDGE ST
SPRINGFIELD, MA 01103

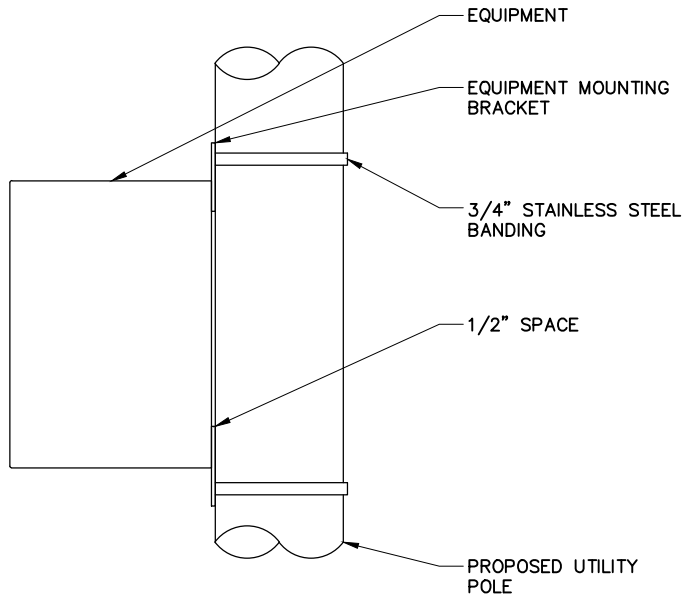
UTILITY POLE

SHEET TITLE

ANTENNA & EQUIPMENT MOUNTING DETAILS

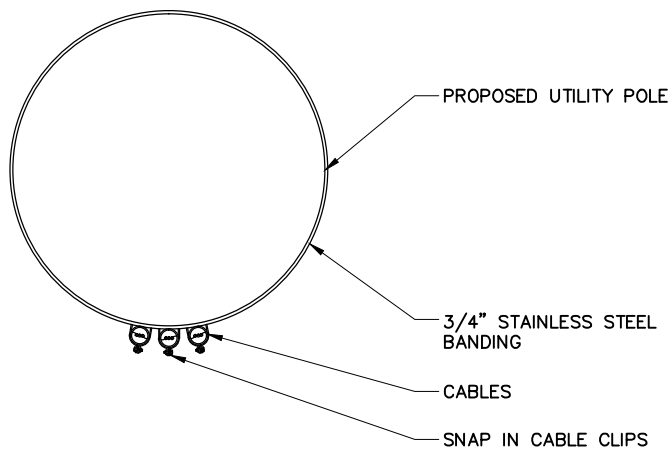
SHEET NUMBER

SHEET NUMBER
3.0



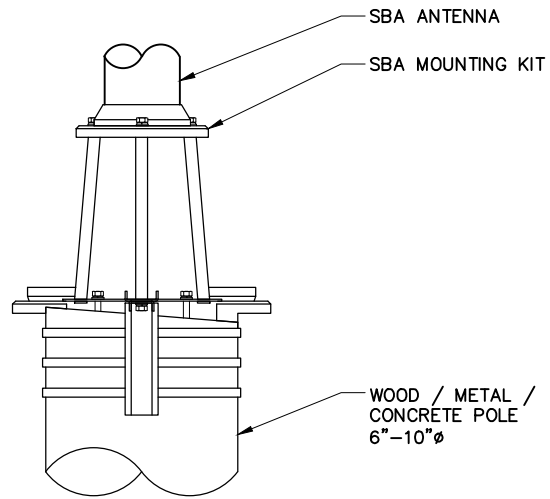
1	EQUIPMENT CONNECTION DETAIL
---	-----------------------------

SCALE: NTS



3	CABLE ROUTING DETAIL
---	----------------------

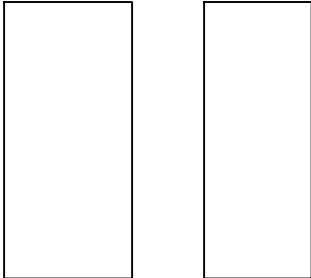
SCALE: NTS



2	ANTENNA MOUNTING DETAIL
---	-------------------------

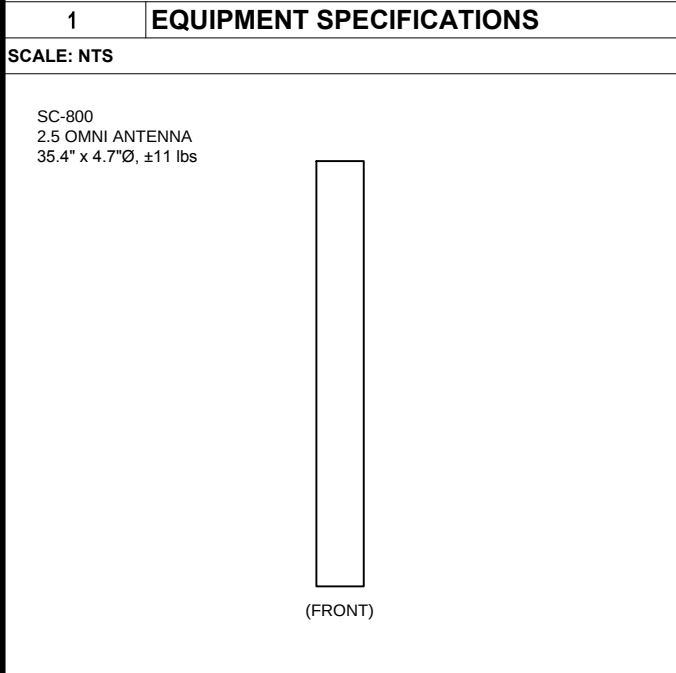
SCALE: NTS

AH4000
RADIO HEAD
20.1" x 9.1" x 8.9", ±55.1 lbs



(FRONT)

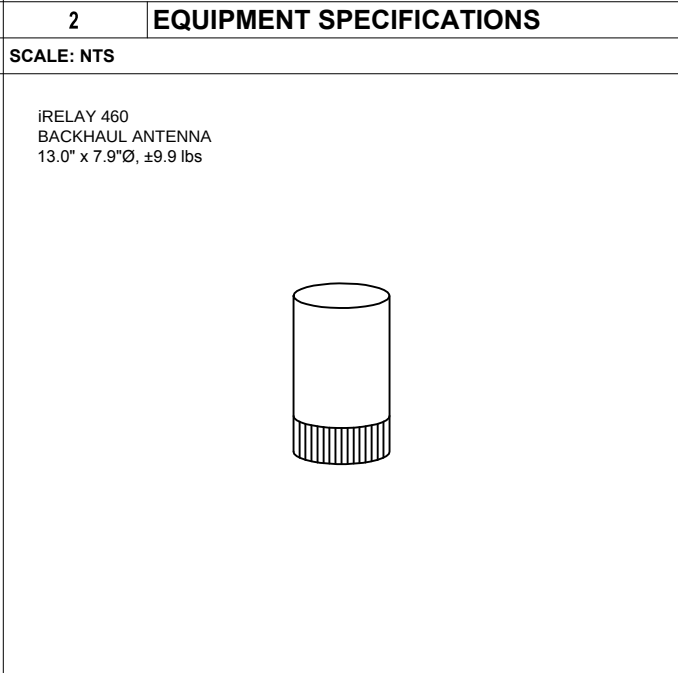
(SIDE)



TW3012
GPS ANTENNA
0.8" x 2.6"Ø, ±0.3 lbs


(PLAN)


(FRONT)

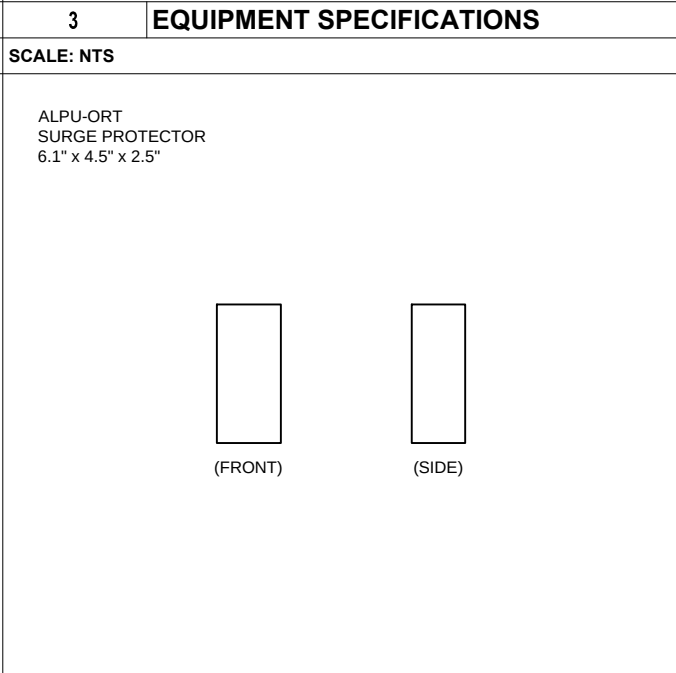


RSTAC-3112-P-120
AC POWER PANEL
9.25" x 9.50" x 3.81"

The technical drawing consists of two parts. The front view on the left shows a square panel with a recessed center. The recessed area is defined by four trapezoidal sections meeting at a central square. A small circle is located at the bottom center of the panel. The side view on the right shows the panel's profile, which is a rectangle with a small protrusion on the left side.

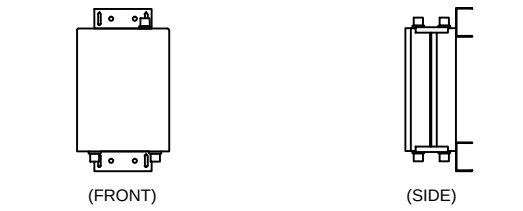
(FRONT)

(SIDE)



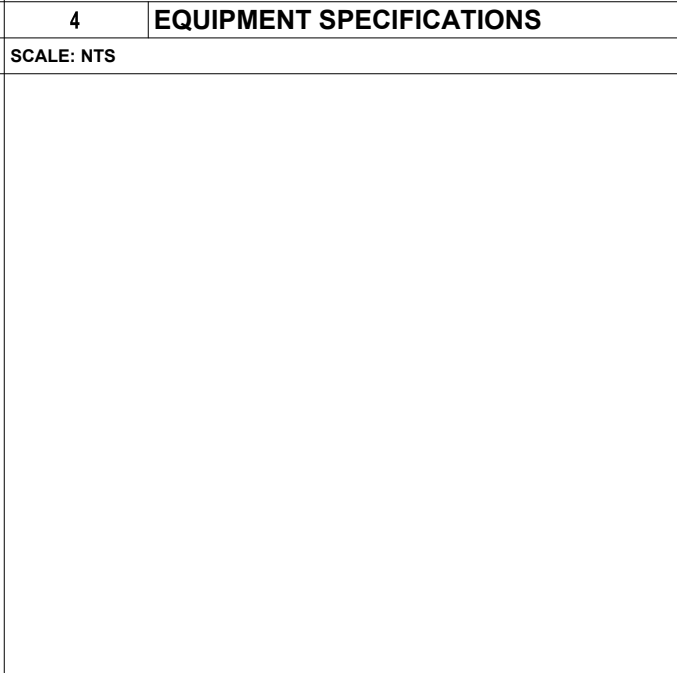
FIMBW2593S-1C
RF FILTER

13.6" x 8.1" x 2.4 ±7.7 lbs



(FRONT)

(SIDE)



SCALE: NTS

SC-800
2.5 OMNI ANTENNA
35.4" x 4.7"Ø, ±11 lbs

(FRONT)

(FRONT)

SCALE: NTS

iRELAY 460
BACKHAUL ANTENNA
13.0" x 7.9"Ø, ±9.9 lbs

A cylinder with a shaded bottom section. The bottom section is shaded with vertical lines, representing a specific material or layer.

SCALE: NTS

ALPU-ORT
SURGE PROTECTOR
6.1" x 4.5" x 2.5"

The image shows two simple line drawings of a rectangular object. The left drawing is a front view, showing a rectangle with a width of 6.1 inches and a height of 4.5 inches. The right drawing is a side view, showing a rectangle with a width of 2.5 inches and a height of 4.5 inches. Both drawings are oriented vertically on the page.

(FRONT) (SIDE)

(FRONT)



SCALE: NTS

		Packet Pg. 253
PROJECT NO:9MAB001637 DRAWN BY:RC CHECKED BY:SJB		
A	06-14-16	FOR CLIENT REVIEW
KMB DESIGN GROUP, LLC Stephen A. Bray PROFESSIONAL ENGINEER PRELIMINARY NOT FOR CONSTRUCTION MA LICENSE: 477706/14/16 IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT		
BS90XS151B DWIGHT ST & BRIDGE ST SPRINGFIELD, MA 01103 UTILITY POLE		
SHEET TITLE ANTENNA & EQUIPMENT SPECIFICATIONS		
SHEET NUMBER 3.1		



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3.1

WORK INCLUDES:

THESE NOTES AND ACCOMPANYING DRAWINGS COMPLEMENT THE PROVISIONS AND INSTALLATIONS BY THE ELECTRICAL CONTRACTOR, OF ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO INSTALL THE ELECTRICAL WORK COMPLETE IN CONNECTION WITH THIS UTILITY SITE AND SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:

1. THE PROVISIONS, INSTALLATION AND CONNECTION OF A GROUNDING ELECTRODE SYSTEM COMPLETE WITH SECONDARY GROUNDING, AND CONNECTIONS TO THE INCOMING ELECTRICAL DISTRIBUTION EQUIPMENT.
2. THE PROVISION AND INSTALLATION OF AN OVERHEAD ELECTRICAL SERVICE OR UNDERGROUND ELECTRICAL SERVICE AND ALL ASSOCIATED WIRE AND CONDUIT AS REQUIRED AND/OR INDICATED ON PLANS.
3. THE PROVISION AND INSTALLATION OF CONDUIT AND CONNECTIONS FOR LOCAL FIBER SERVICE.
4. THE FURNISHING AND INSTALLATION OF THE ELECTRICAL SERVICE ENTRANCE CONDUCTORS, CONDUITS, METER SOCKET, AND CONNECTIONS TO THE SERVICE EQUIPMENT.
5. ALL CONDUITS SHOULD BE LEFT WITH NYLON PULL CORD FOR FUTURE USE.
6. EXCAVATION, TRENCHING, AND BACKFILLING FOR CONDUIT(S), CABLE(S) AND EXTERNAL GROUNDING SYSTEM.

CODES, PERMITS AND FEES:

1. ALL REQUIRED PERMITS, LICENSES, INSPECTIONS AND APPROVALS SHALL BE SECURED AND ALL FEES FOR SAME PAID BY CONTRACTOR.
2. THE INSTALLATION SHALL COMPLY WITH ALL APPLICABLE CODES: STATE, LOCAL AND NATIONAL AND THE DESIGN, PERFORMANCE CHARACTERISTICS AND METHODS OF CONSTRUCTION OF ALL ITEMS AND EQUIPMENT SHALL BE IN ACCORDANCE WITH THE LATEST ISSUE OF THE VARIOUS APPLICABLE STANDARD SPECIFICATIONS OF THE FOLLOWING AUTHORITIES:

N.E.C.	NATIONAL ELECTRICAL CODE
A.N.S.I.	AMERICAN NATIONAL STANDARDS INSTITUTE
I.E.E.E.	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
A.S.T.M.	AMERICAN SOCIETY FOR TESTING MATERIALS
N.E.M.A.	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
U.L.	UNDERWRITERS LABORATORIES, INC.
N.F.P.A.	NATIONAL FIRE PROTECTION ASSOCIATION

RACEWAYS AND WIRING:

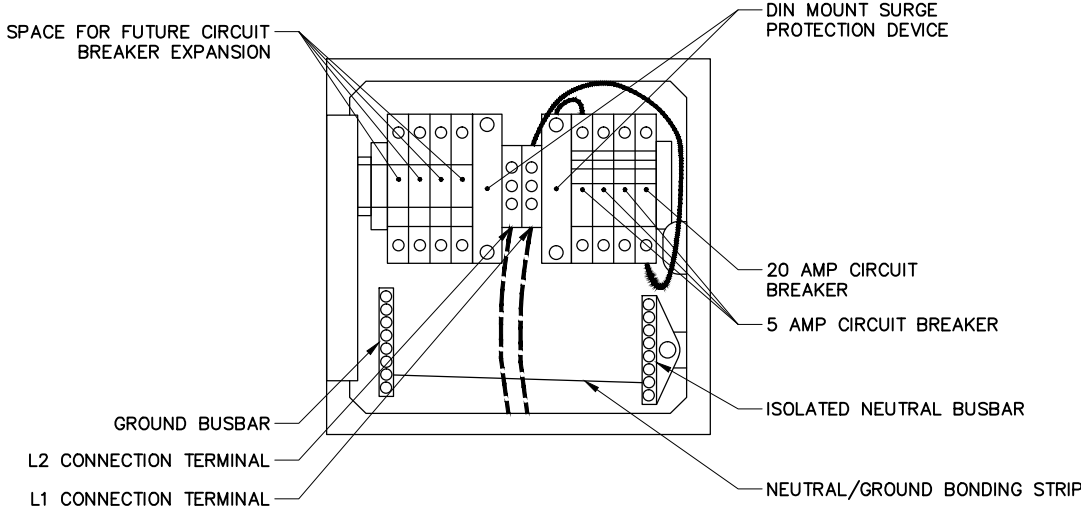
1. WIRING OF EVERY KIND MUST BE INSTALLED IN CONDUIT, UNLESS NOTED OTHERWISE, OR AS APPROVED BY THE ARCHITECT/ENGINEER.
2. UNLESS OTHERWISE SPECIFIED, ALL WIRING SHALL BE COPPER (CU) TYPE THWN, SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND LOCAL CODES.
3. RACEWAYS SHALL BE GALVANIZED STEEL, SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND LOCAL CODES UNLESS OTHERWISE NOTED. ALL RACEWAYS SHALL BE APPROVED FOR THE INSTALLATION.
4. PULL OR JUNCTION BOXES SHALL BE PROVIDED AS REQUIRED TO FACILITATE INSTALLATION OF RACEWAYS AND WIRING. PROVIDE JUNCTION AND PULLBOXES FOR CONDUIT RUNS WITH MORE THAN (360) DEGREES OF BENDS.
5. PROVIDE A COMPLETE RACEWAY AND WIRING INSTALLATION, PERMANENTLY AND EFFECTIVELY GROUNDED IN ACCORDANCE WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE AND LOCAL CODES.
6. ALL STEEL CONDUIT SHALL BE BONDED AT BOTH ENDS WITH GROUNDING BUSHING.

GENERAL NOTES:

SEE DETAILS, SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND INFORMATION. CHECK ARCHITECTURAL, STRUCTURAL, AND OTHER MECHANICAL AND ELECTRICAL DRAWINGS FOR SCALE, SPACE LIMITATIONS, COORDINATION, AND ADDITIONAL INFORMATION, ETC. REPORT ANY DISCREPANCIES, CONFLICTS, ETC. TO ARCHITECT/ENGINEER BEFORE SUBMITTING BID. ALL EQUIPMENT FURNISHED BY OTHERS (FBO) SHALL BE PROVIDED WITH PROPER MOTOR STARTERS, DISCONNECTS, CONTROLS, ETC. BY THE ELECTRICAL CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE. THE ELECTRICAL CONTRACTOR SHALL INSTALL AND COMPLETELY WIRE ALL ASSOCIATED EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S WIRE DIAGRAMS AND AS REQUIRED FOR A COMPLETE OPERATING INSTALLATION. ELECTRICAL CONTRACTOR SHALL VERIFY AND COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF (FBO) EQUIPMENT PRIOR TO ROUGH-IN OF CONDUIT AND WIRING TO AVOID CONFLICTS.

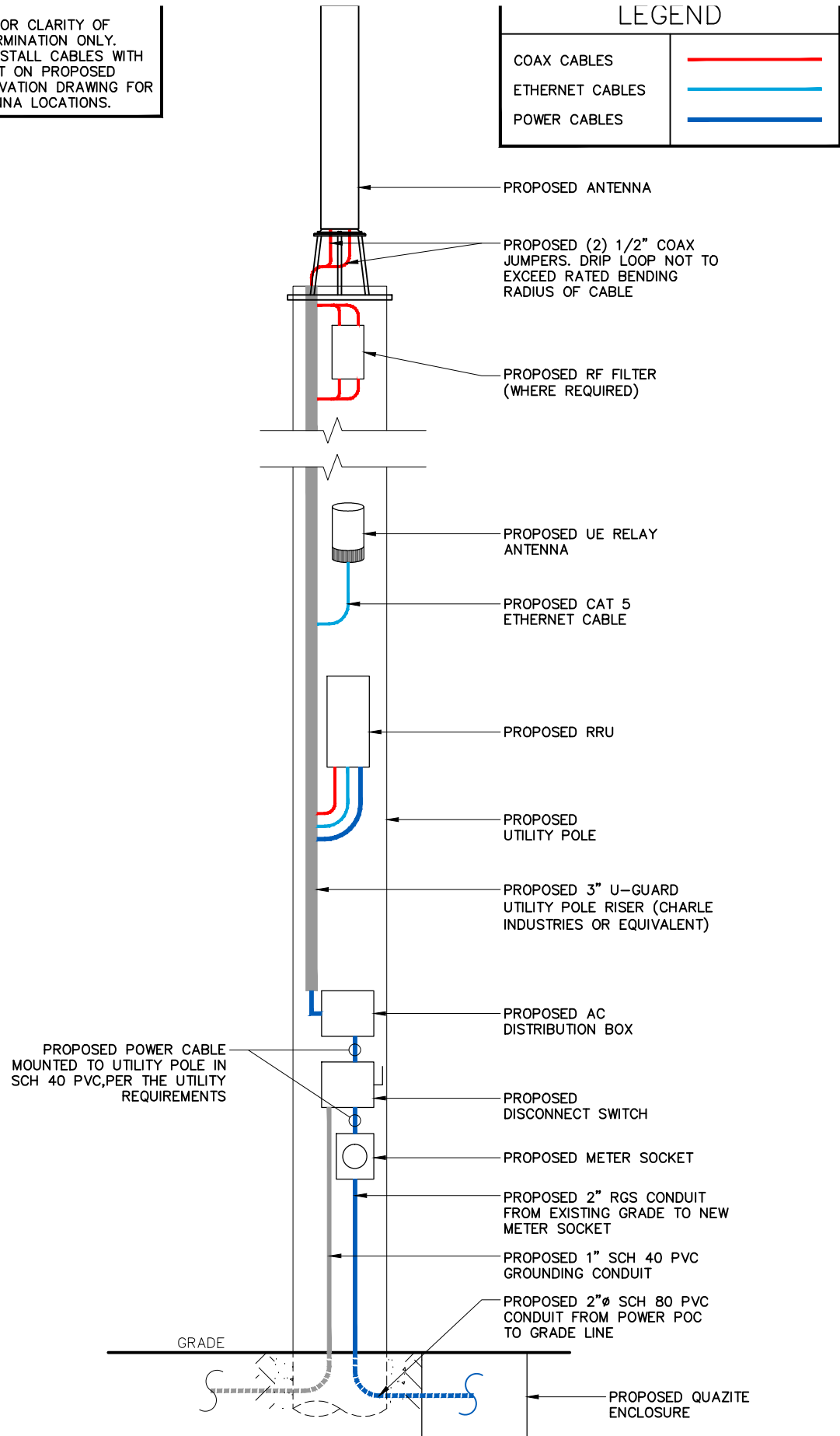
COORDINATION WITH UTILITY COMPANY:

THE ELECTRICAL CONTRACTOR SHALL COORDINATE COMPLETE ELECTRICAL SERVICE WITH LOCAL UTILITY COMPANY FOR A COMPLETE OPERATIONS SYSTEM, INCLUDING TRANSFORMER CONNECTIONS, CONCRETE TRANSFORMER PADS, IF REQUIRED, METER SOCKETS, PRIMARY CABLE RACEWAY REQUIREMENTS, SECONDARY SERVICE, ETC. PRIOR TO SUBMITTING BID TO INCLUDE ALL LABOR AND MATERIALS. THE ELECTRICAL CONTRACTOR SHALL INCLUDE IN THE BID ANY OPTIONAL OR EXCESS FACILITY CHARGES ASSOCIATED WITH PROVIDING ELECTRICAL SERVICE FROM LOCAL UTILITY COMPANY. VERIFY BEFORE BIDDING TO INCLUDE ALL COSTS. THE ELECTRICAL CONTRACTOR SHALL VERIFY THE AVAILABLE FAULT CURRENT WITH THE LOCAL UTILITY COMPANY PRIOR TO SUBMITTING BID. ADJUST A.I.C. RATINGS OF ALL OVER CURRENT PROTECTION DEVICES IN DISTRIBUTION EQUIPMENT AS REQUIRED TO COORDINATE WITH AVAILABLE FAULT CURRENT FROM LOCAL UTILITY COMPANY.

1	NOTES
 The diagram illustrates the internal layout of an AC Distribution Panel. It features two rows of circuit breakers: a top row with a 20 AMP circuit breaker and a 5 AMP circuit breaker, and a bottom row with a 20 AMP circuit breaker and a 5 AMP circuit breaker. A DIN mount surge protection device is located at the top right. A ground busbar is positioned at the bottom left, and an isolated neutral busbar is at the bottom right. A neutral/ground bonding strip connects the two busbars. L1 and L2 connection terminals are shown on the left side. A dashed line indicates the space for future circuit breaker expansion. SPACE FOR FUTURE CIRCUIT BREAKER EXPANSION DIN MOUNT SURGE PROTECTION DEVICE 20 AMP CIRCUIT BREAKER 5 AMP CIRCUIT BREAKER GROUND BUSBAR L2 CONNECTION TERMINAL L1 CONNECTION TERMINAL ISOLATED NEUTRAL BUSBAR NEUTRAL/GROUND BONDING STRIP	
2	AC DISTRIBUTION PANEL
SCALE: NTS	

NOTE:

CABLING DIAGRAM IS FOR CLARITY OF CABLE ROUTE AND TERMINATION ONLY. CONTRACTOR SHALL INSTALL CABLES WITH MINIMAL VISUAL IMPACT ON PROPOSED UTILITY POLE. SEE ELEVATION DRAWING FOR EQUIPMENT AND ANTENNA LOCATIONS.



LEGEND

COAX CABLES	
ETHERNET CABLES	
POWER CABLES	

mobilitie

PROJECT NO: 9MAB001637

DRAWN BY: RC

CHECKED BY: SJB

A	06-14-16	FOR CLIENT REVIEW

KMB DESIGN GROUP, LLC

Stephen A. Bray
PROFESSIONAL ENGINEER

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DWIGHT ST & BRIDGE ST
SPRINGFIELD, MA 01103

UTILITY POLE

SHEET TITLE

ELECTRICAL DETAILS

SHEET NUMBER

4.0



A	06-14-16	FOR CLIENT REVIEW

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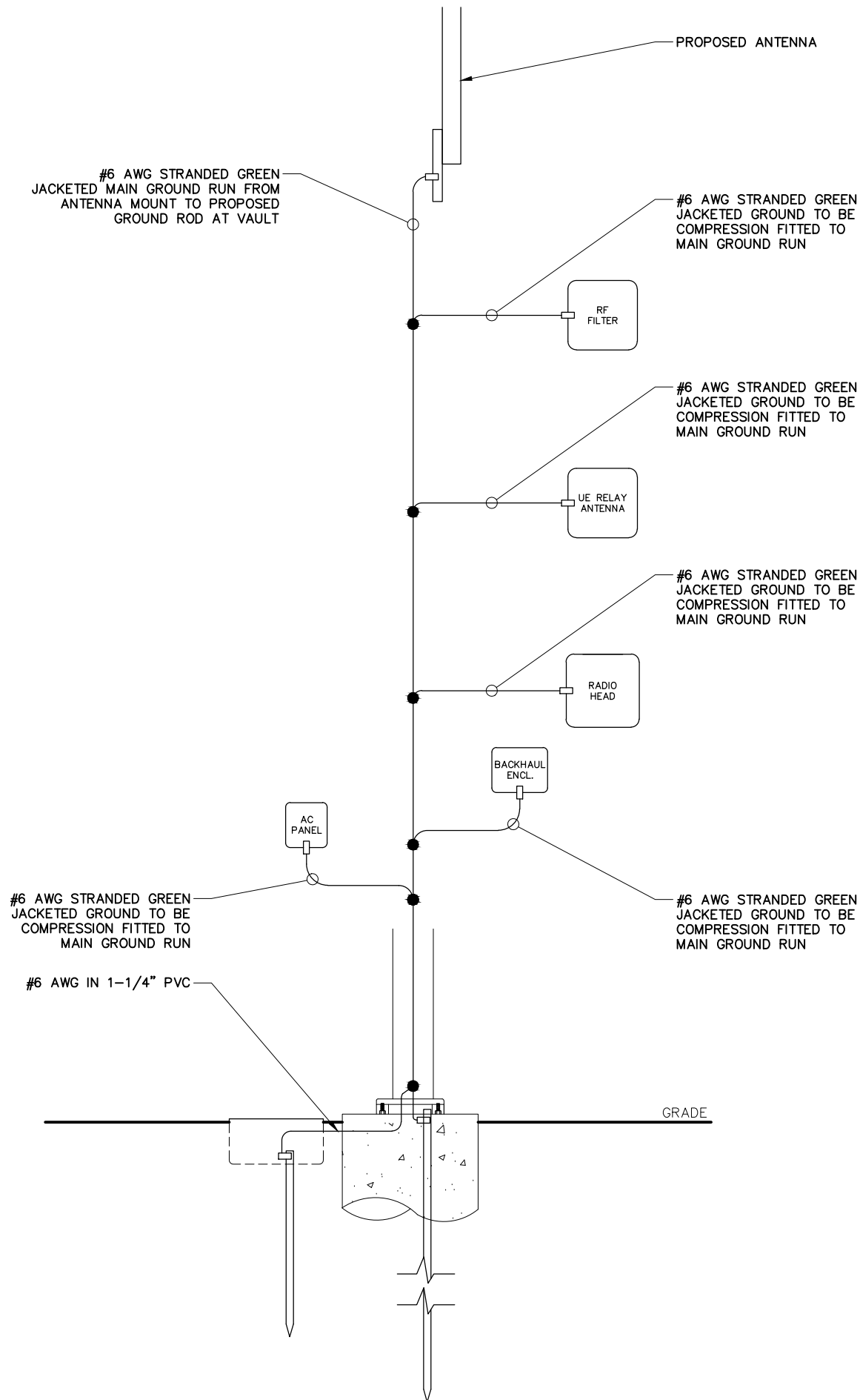
UTILITY POLE

SHEET TITLE

GROUNDING DETAILS

SHEET NUMBER

5.0



LEGEND

- CADWELD CONNECTION
- MECHANICAL CONNECTION
- COMPRESSION CONNECTION

LEGEND

- CADWELD CONNECTION
- MECHANICAL CONNECTION
- COMPRESSION CONNECTION

LEGEND

- CADWELD CONNECTION
- MECHANICAL CONNECTION
- COMPRESSION CONNECTION

LEGEND

- CADWELD CONNECTION
- MECHANICAL CONNECTION
- COMPRESSION CONNECTION

NOTE:
GROUNDING RISER FOR DIAGRAMMATIC
PURPOSES ONLY. SEE ELEVATION DRAWING
FOR EQUIPMENT AND ANTENNA LOCATIONS.



ANTENNA SIGNAGE:
ON WOOD POLES - SIGN ON ALUMINUM WITH SS SCREW TO THE POLE
ON METAL POLES - ADHESIVE VINYL OR PLACARD STRAPPED WITH SS TIES
ON CONCRETE / COMPOSITE - PLACARD STRAPPED WITH SS TIES

SIGN PLACEMENT:
AFFIX TO THE STRUCTURE 3-4' BELOW THE COMMERCIAL RF ANTENNA(S)
SIZE APPROX. 8" x 5.5"

NOTE:
RF/POWER DISCONNECT SIGN TO BE PLACED
ON OUTSIDE DOOR OF AC DISTRIBUTION BOX.

RF / POWER DISCONNECT INSIDE

2	RF/POWER DISCONNECT SIGN
---	--------------------------

SCALE: NTS

**INTERSTATE
TRANSPORT AND BROADBAND**

In case of emergency contact:
EMAIL: NOC@ITBUTILITY.COM
PHONE: (877) 244-7889

SITE ID: 9MAB001637

In case of emergency contact:
EMAIL: NOC@ITBUTILITY.COM
PHONE: (877) 244-7889

SITE ID: 9MAB001637

OWNER / OPERATOR NOTE:
SITE ID LABEL TO BE AFFIXED WITH TZeS241 LABELING TAPE OR EQUIVALENT BLACK ON WHITE LABELING TAPE OF AT LEAST 18mm WIDTH WITH EXTRA-STRENGTH ADHESIVE. USE ANY COMPATIBLE P-TOUCH LABEL MAKER. TEXT SHOULD BE PRINTED IN ALL CAPS WITH A MINIMUM HEIGHT OF 1/2".

3	POLE OWNER SIGN DETAIL
---	------------------------

SCALE: NTS

PROJECT NO:	9MAB001637
DRAWN BY:	RC
CHECKED BY:	SJB

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BS90XSI51B

DWIGHT ST & BRIDGE ST
SPRINGFIELD, MA 01103

UTILITY POLE

SHEET TITLE

EQUIPMENT & SAFETY LABELS

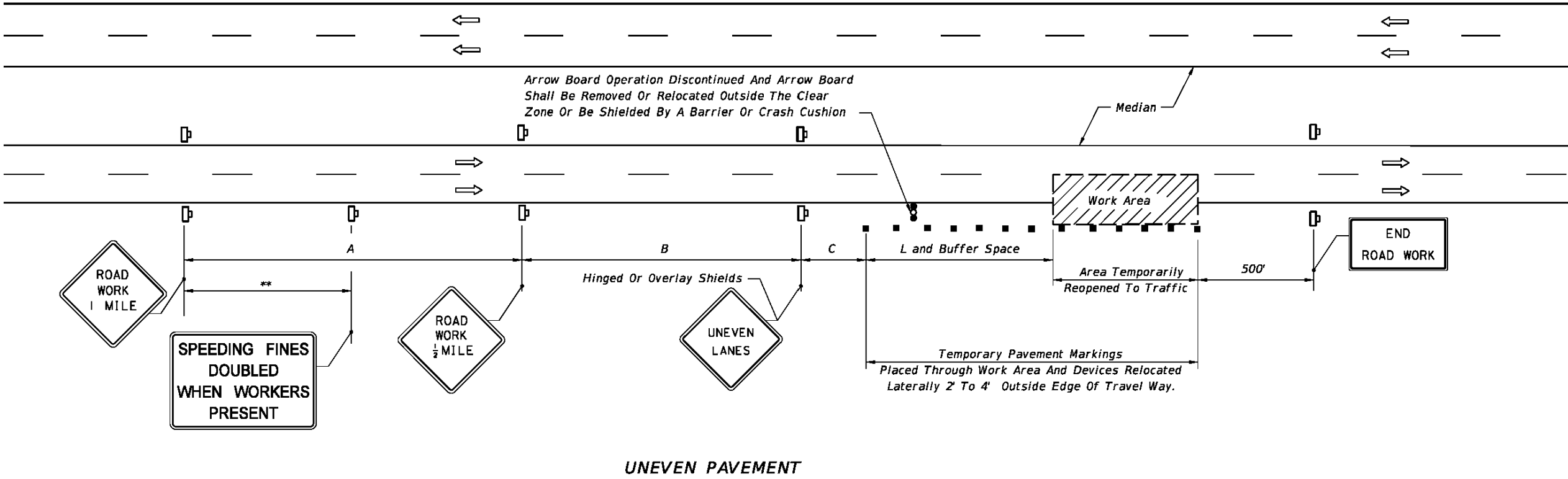
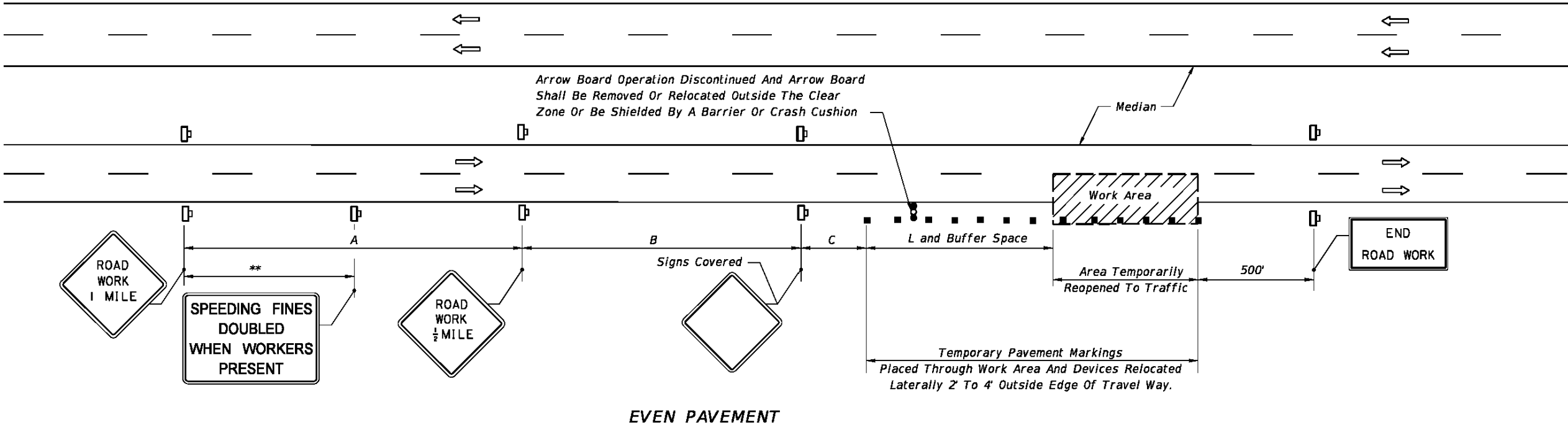
SHEET NUMBER
6.0

- | | |
|---|-----------------------|
| 1 | TRAFFIC CONTROL NOTES |
|---|-----------------------|

2	MULTILANE, WORK WITHIN TRAVEL WAY MEDIAN OR OUTSIDE LANE
---	--

3	TRAFFIC CONTROL PLAN
---	----------------------





INTERMITTENT WORK STOPPAGE - LANE REOPENED TO TRAFFIC

PROJECT NO:	9MAB001637
DRAWN BY:	RC
CHECKED BY:	SJB

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DWIGHT ST & BRIDGE ST
SPRINGFIELD, MA 01103

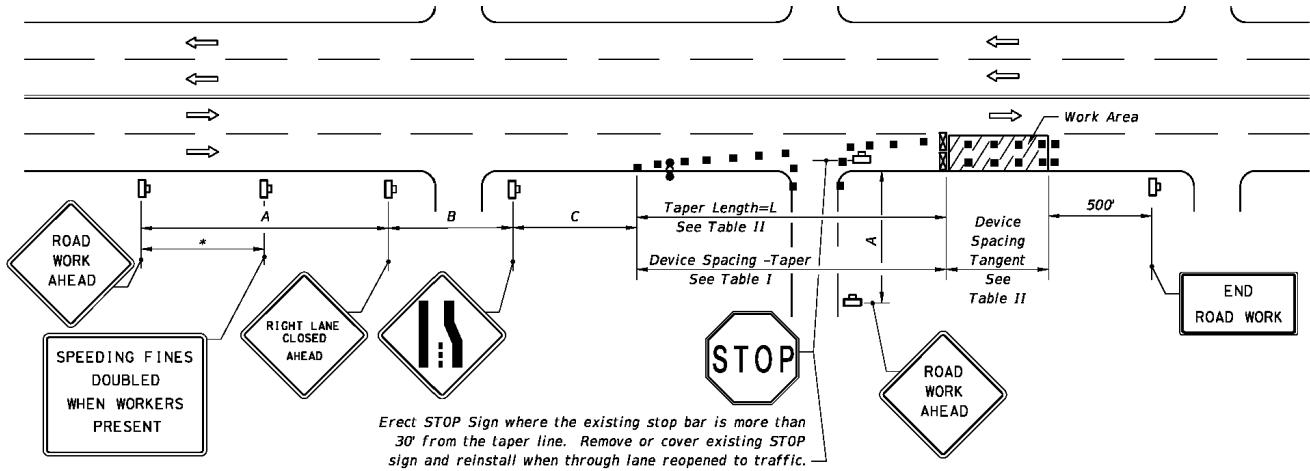
UTILITY POLE

SHEET TITLE

TRAFFIC CONTROL PLAN

SHEET NUMBER

6.2



RIGHT LANE CLOSED ON FAR SIDE OF MINOR SIDESTREET

Speed	Spacing (ft.)		
	A	B	C
40 mph or less	200	200	200
45 mph	350	350	350

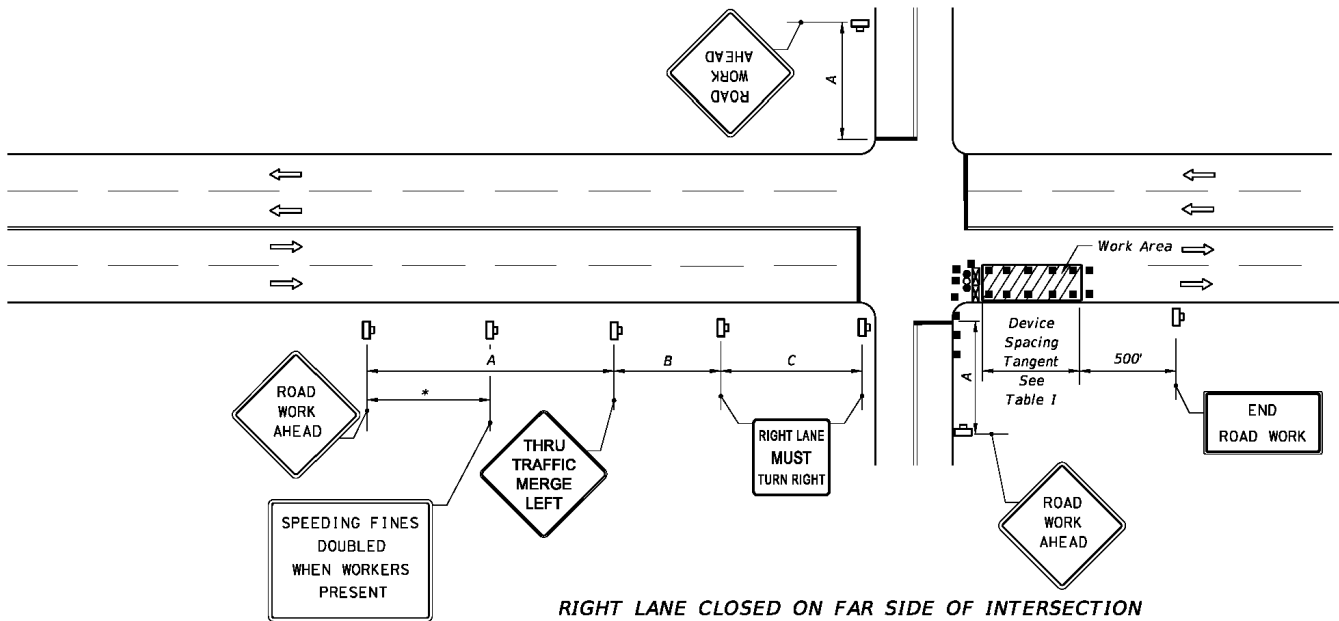
* 500' beyond the ROAD WORK AHEAD sign or
midway between signs whichever is less.

Speed (mph)	Max. Distance Between Devices (ft.)			
	Cones or Tubular Markers		Type I or Type II Barricades or Vertical Panels or Drums	
	Taper	Tangent	Taper	Tangent
25	25	50	25	50
30 to 45	25	50	30	50

Speed (mph)	L (ft)	Notes (Merge)
25	125	$L = \frac{WS^2}{60}$
30	180	
35	245	
40	320	
45	540	$L=WS$

For lateral transitions other than 12',
use formula for L shown in the notes
column. Where:

L = Length of taper in feet
W = Width of lateral transition in feet
S = Posted speed limit (mph)



**RIGHT LANE CLOSED ON FAR SIDE OF INTERSECTION
WITH SIGNIFICANT RIGHT TURNING MOVEMENTS**

1. The normal procedure is to close on the near side of the intersection any lane that is not carried through the intersection. However, when this results in the closure of a right lane having significant right turning movements, then the right lane may be restricted to right turns only as shown in this detail.
2. For intersection approaches reduced to a single lane, left turning movements may be prohibited to maintain capacity for through vehicular traffic.

GENERAL NOTES

1. *Work operations shall be confined to either one lane, or lane combinations as follows:*
- a. Outside travel lane;*
 - b. Outside auxiliary lane;*
 - c. Outside travel lane and adjoining auxiliary lane;*
 - d. Inside travel lane*
 - e. Inside auxiliary lane*
 - f. Inside travel lane and adjoining auxiliary lane*
- See Sheet 3*

If the work area is confined to an auxiliary lane the work area shall be barricaded and the RIGHT (LEFT) LANE CLOSED AHEAD signs replaced by ROAD WORK AHEAD signs, and the merge symbol signs eliminated.

2. When vehicles in a parking zone block the line of sight to TCZ signs, the signs shall be post mounted and located in accordance with MUTCD.

DURATION NOTES

For work operations up to approximately 15 minutes, signs channelizing devices, and arrow board may be omitted if all of the following conditions are met:

- a. Speed limit is 45 mph or less.
- b. No sight obstructions to vehicles approaching the work area for a distance equal to twice the taper length.
- c. Volume and complexity of the roadway has been considered.
- d. The closed lane is occupied by a class 5 or larger, medium duty truck(s) with a minimum gross weight vehicle rating (GWVR) of 16,001 lb with high-intensity, rotating, flashing, oscillating, or strobe lights mounted above the cab height and operating.

2. For work operations up to 60 minutes, the arrow board may be omitted if conditions a, b, and c in DURATION NOTE 1 are met, and vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.

PRELIMINARY
NOT FOR CONSTRUCTION

MA LICENSE: 47770 6/14/16

IT IS A VIOLATION OF THE LAW FOR ANY PERSON,
UNLESS THEY ARE ACTING UNDER THE DIRECTION OF
A LICENSED PROFESSIONAL ENGINEER, TO ALTER
THIS DOCUMENT

BS90XSI51B

DWIGHT ST & BRIDGE ST
SPRINGFIELD, MA 01103

UTILITY POLE

SHEET TITLE

TRAFFIC CONTROL PLAN

6.3

ELECTRICAL

1. CONTRACTOR SHALL REVIEW THE CONTRACT DOCUMENTS PRIOR TO ORDERING THE ELECTRICAL EQUIPMENT AND STARTING THE ACTUAL CONSTRUCTION. CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE ARCHITECT/ENGINEER LISTING ANY DISCREPANCIES OR CONFLICTING INFORMATION.
2. ELECTRICAL PLANS, DETAILS AND DIAGRAMS ARE DIAGRAMMATIC ONLY. VERIFY EXACT LOCATIONS AND MOUNTING HEIGHTS OR ELECTRICAL EQUIPMENT WITH OWNER PRIOR TO INSTALLATION.
3. EACH CONDUCTOR OF EVERY SYSTEM SHALL BE PERMANENTLY TAGGED IN EACH PANELBOARD, PULLBOX, JUNCTION BOX, SWITCH BOX, ETC. THE TYPE OF TAGGING METHODS SHALL BE IN COMPLIANCE WITH OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (O.S.H.A.)
4. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN GOOD WORKING CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. MATERIALS SHALL BE LISTED "U.L." WHERE APPLICABLE. MATERIALS SHALL MEET WITH APPROVAL OF ALL GOVERNING BODIES HAVING JURISDICTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA, NBFU AND "U.L." LISTED.
5. ALL CONDUIT SHALL HAVE A PULL CORD.
6. PROVIDE PROJECT MANAGER WITH ONE SET OF COMPLETE ELECTRICAL "AS INSTALLED" DRAWINGS AT THE COMPLETION OF THE JOB, SHOWING ACTUAL DIMENSIONS, ROUTINGS, AND CIRCUITS.
7. ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED, AND A MINIMUM OF 10,000 A.I.C.
8. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY IBC, NEC AND ALL APPLICABLE CODES.
9. PATCH, REPAIR AND PAINT ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF THE ELECTRICAL WORK.
10. PLASTIC PLATES FOR ALL SWITCHES, RECEPTACLES, TELEPHONE AND BLANKED OUTLETS SHALL HAVE ENGRAVED LETTERING WHERE INDICATED ON THE DRAWINGS. WEATHERPROOF RECEPTACLES SHALL HAVE SIERRA #WPD-8 LIFT COVERPLATES.

SERVICE AND DISTRIBUTION

- WIRE AND CABLE CONDUCTORS SHALL BE COPPER, 600V, TYPE THHN OR THWN, WITH A MIN. SIZE OF #12 AWG, COLOR CODED.
- METER SOCKET AMPERES, VOLTAGE, NUMBER OF PHASES SHALL BE NOTED ON THE DRAWINGS. MANUFACTURED BY MILBANK OR APPROVED EQUAL, AND SHALL BE UTILITY COMPANY APPROVED.
- CONDUIT:
 - RIGID CONDUIT SHALL BE U.L. LABEL GALVANIZED ZINC COATED WITH GALVANIZED ZINC INTERIOR AND SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS, IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS OR EXPOSED ON BUILDING EXTERIOR. RIGID CONDUIT IN CONTACT WITH EARTH SHALL BE 1/2 LAPPED WRAPPED WITH HUNTS WRAP PROCESS NO. 3.
 - FLEXIBLE METALLIC CONDUIT SHALL HAVE U.L. LISTED LABEL AND MAY BE USED WHERE PERMITTED BY CODE. FITTINGS SHALL BE "JAKE" OR "SQUEEZE" TYPE. ALL FLEXIBLE CONDUITS SHALL HAVE FULL LENGTH GROUND WIRE.
 - IT IS REQUIRED AND WILL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO NOTIFY 811 OR OTHER SUCH UTILITY LOCATING AGENCY 3 DAYS BEFORE DIGGING.
- CONTRACTOR TO COORDINATE WITH UTILITY COMPANY FOR CONNECTION OF TEMPORARY AND PERMANENT POWER TO THE SITE. THE TEMPORARY POWER AND ALL HOOKUP COSTS ARE TO BE PAID BY THE CONTRACTOR.
- ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENT ENGRAVED PLASTIC LABELS WITH WHITE ON BLUE BACKGROUND LETTERING (MINIMUM LETTER HEIGHT SHALL BE ONE FOURTH INCH (1/4")). NAMEPLATES SHALL BE FASTENED WITH STAINLESS STEEL SCREWS, NOT ADHESIVE.
- UPON COMPLETION OF WORK, CONTINUITY, SHORT CIRCUIT, AND FALL POTENTIAL GROUNDING TESTS BY AN INDEPENDENT TESTING SERVICE ENGAGED BY THE CONTRACTOR SHALL BE SUBMITTED FOR APPROVAL. SUBMIT TEST REPORTS TO PROJECT MANAGER. CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION.
- GROUNDING ELECTRODE SYSTEM
 - PREPARATION
 - SURFACE PREPARATION: ALL CONNECTIONS SHALL BE MADE TO BARE METAL. ALL PAINTED SURFACES SHALL BE FIELD INSPECTED AND MODIFIED TO ENSURE PROPER CONTACT. NO WASHERS ARE ALLOWED BETWEEN THE ITEMS BEING GROUNDED. ALL CONNECTIONS ARE TO HAVE A NON-OXIDIZING AGENT APPLIED PRIOR TO INSTALLATION.
 - IF CONDUCTORS MUST RUN THROUGH CONDUIT, BOTH ENDS OF CONDUIT SHALL BE GROUNDED. SEAL BOTH ENDS OF CONDUIT WITH SILICONE CAULK.
 - EXTERNAL CONNECTIONS
 - ALL BURIED GROUNDING CONNECTIONS SHALL BE MADE BY THE EXOTHERMIC WELD PROCESS. CONNECTIONS SHALL INCLUDE ALL CABLE TO CABLE, SPLICES, TEE'S, CROSSES, ETC. ALL CABLE TO GROUND RODS, GROUND ROD SPLICES AND LIGHTNING PROTECTION SYSTEMS ARE TO BE AS INDICATED. ALL MATERIALS USED (MOLDS, WELDING METAL, TOOLS, ETC.) SHALL BE BY "ULTRAWELD" AND INSTALLED PER MANUFACTURER'S RECOMMENDED PROCEDURES.
 - ALL ABOVE GRADE GROUNDING AND BONDING CONDUCTORS SHALL BE CONNECTED BY TWO HOLE CRIMP TYPE (COMPRESSION) CONNECTIONS (EXCEPT FOR THE ACEG AND GROUND ROD). MECHANICAL CONNECTIONS, FITTINGS OR CONNECTIONS THAT DEPEND SOLELY ON SOLDER SHALL NOT BE USED. ALL CABLE TO CABLE CONNECTIONS SHALL BE HIGH PRESSURE DOUBLE CRIMP TYPE CONNECTIONS. CONNECTIONS TO STRUCTURAL STEEL SHALL BE EXOTHERMIC WELDS.

- Attachment: BS90XS151B_CONSTDWS90_20160614_A1P (3672 : Dwight Street (Mobilitie))

- C. GROUND RODS: ALL GROUND RODS SHALL BE 5/8-INCH DIAMETER X 10'-0" LONG "COPPERWELD" OR APPROVED EQUAL, OF THE NUMBER AND LOCATIONS INDICATED. GROUND RODS SHALL BE GIVEN FULL LENGTH VERTICAL IN UNDISTURBED EARTH.
- D. GROUND CONDUCTORS: ALL GROUND CONDUCTORS SHALL BE STANDARD TINNED SOLID BARE COPPER ANNEALED, AND OF SIZE INDICATED ON DRAWINGS UNLESS OTHERWISE NOTED.
- E. LUGS
- LUGS SHALL BE 2-HOLE, LONG BARREL, STRAND COPPER UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS. LUGS SHALL BE THOMAS AND BETTS SERIES #54____BE OR EQUIVALENT

A.	535	MCM	DLO	54880BE
B.	262	MCM	DLO	54872BE
C.	#1/0	DLO		54862BE
D.	#4/0	THWN	AND BARE	54866BE
E.	#2/0	THWN		54862BE
F.	#2	THHN		54207BE
G.	#6	DLO		54205BE

- WHEN THE DIRECTION OF THE CONDUCTOR MUST CHANGE, IT SHALL BE DONE GRADUALLY. THE CURVATURE OF THE TURN SHALL BE DONE IN ACCORDANCE WITH THE FOLLOWING CHART:

<u>GROUNDING CONDUCTOR SIZE</u>	<u>MINIMUM BENDING RADIUS TO INSIDE EDGE</u>
NO. 6 AWG TO NO. 4 AWG	6 INCHES
NO. 2 AWG TO NO 1/0 AWG	8 INCHES
NO. 2/0 AWG TO 4/0 AWG	12 INCHES
250 MCM TO 750 MCM	24 INCHES

8. GROUNDING RESISTANCE TEST REPORT: UPON COMPLETION OF THE TESTING FOR EACH SITE, A TEST REPORT SHOWING RESISTANCE IN OHMS MUST BE SUBMITTED. TWO (2) SETS OF TEST DOCUMENTS FROM THE INDEPENDENT TESTING SERVICE ARE TO BE BOUND AND SUBMITTED WITHIN ONE (1) WEEK OF WORK COMPLETION.

POLES, POSTS, AND STANDARDS
(SINGLE MAST AND SELF SUPPORTING TOWERS)

1. GENERAL
 - A. LIGHTNING ROD AND EXTENSION PIPE INCLUDING ALL APPURTENANCES, TO BE FURNISHED BY OWNER, IF REQUIRED.
 - B. GROUNDING: GROUND METAL POLES WITH A MINIMUM OF #2 AWG TINNED SOLID BARE COPPER CONDUCTOR CADWELDED TO TOWER BASE PLATE.

TELECOMMUNICATIONS WIRING COMPONENTS
(COAXIAL ANTENNA CABLE)

1. GENERAL
 - A. ALL MATERIALS, PRODUCTS OR PROCEDURES INCORPORATED INTO WORK SHALL BE NEW AND OF STANDARD COMMERCIAL QUALITY.
 - B. ALL MATERIALS AND PRODUCTS SPECIFIED IN THE CONTRACT DOCUMENTS SHALL BE SUPPLIED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.
2. MATERIALS:
 - A. COAXIAL CABLE:
 - INSTALL COAXIAL CABLE AND TERMINATIONS BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS WITH COAXIAL CABLES SUPPORTED AT NO MORE THAN 3'-0" O.C. WEATHERPROOF ALL CONNECTORS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE FEET (3') IN EXCESS OF EQUIPMENT LOCATION UNLESS OTHERWISE STATED.
 - LENGTHS LESS THAN OR EQUAL TO 100 FEET SHALL BE 7/8".
3. ANTENNA AND COAXIAL CABLE GROUNDING
 - A. ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS)
4. COAXIAL CABLE IDENTIFICATION
 - A. TO PROVIDE EASY IDENTIFICATION AND UNIFORM MARKING OF ANTENNA CABLING, PLASTIC TAGS SHALL BE USED AT THE FOLLOWING LOCATIONS:
 - FIRST LOCATION IS AT THE END OF THE COAX NEAREST THE ANTENNA (WHERE THE COAXIAL CABLE AND JUMPER ARE CONNECTED).
 - SECOND LOCATION IS AT END OF THE COAX NEAREST THE EQUIPMENT.
 - B. USE ANDREW CABLE TIES (P.T.# 27290) TO SECURE IDENTIFICATION TAGS.
 - TESTING: LESSEE SHALL PROVIDE AN INDEPENDENT TESTING AGENCY TO PERFORM THE COAXIAL SWEEP TEST & REPORT. THE CONTRACTOR IS TO PROVIDE ONE LIMBER/QUALIFIED PERSONNEL TO ASSIST IN ANY REPAIRS AND WEATHERPROOFING ONCE THE TEST IS COMPLETE. THE CONTRACTOR IS TO PROVIDE LESSEE WITH A MINIMUM OF 48 HOURS NOTICE PRIOR TO THE TIME OF THE SWEEP TEST.



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PROJECT NO:	9MAB001637
DRAWN BY:	RC
CHECKED BY:	SJB

A	06-14-16	FOR CLIENT REVIEW
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KMB DESIGN GROUP, LLC

Stephen A. Bray
PROFESSIONAL ENGINEER

PRELIMINARY
NOT FOR CONSTRUCTION

MA LICENSE: 47770

6/14/16

IT IS A VIOLATION OF THE LAW FOR ANY PERSON,
UNLESS THEY ARE ACTING UNDER THE DIRECTION OF
A LICENSED PROFESSIONAL ENGINEER, TO ALTER
THIS DOCUMENT

BS90XSI51B

DWIGHT ST & BRIDGE ST
SPRINGFIELD, MA 01103

UTILITY POLE

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

GN-2



City Council
36 Court Street
Springfield, MA 01103

ADOPTED

PETITION (ID # 3673)

Meeting: 10/03/16 07:00 PM
Department: Department of Public Works
Category: General
Prepared By: Hector Velez
Initiator: Hector Velez
Sponsors: Mayor Domenic J. Sarno
DOC ID: 3673

Marlborough Street (Eversource #6240)

CITY OF SPRINGFIELD, MASSACHUSETTS

Date: September 22, 2016

TO THE MAYOR AND CITY COUNCIL OF THE CITY OF SPRINGFIELD:

The Board of Public Works, to which was referred the petition #6240 of Everesource Electric Company dated August 2, 2016, to relocated existing pole #234/9 at the intersection of Marlborough Street and Bristol Street to create additional circuit ties. Existing pole will be relocated from Bristol Street to Marlborough Street, thirteen (13) feet from the original location to the proposed location on the north side of Marlborough Street approximately 26 feet westerly direction from the center line of Bristol Street, all as substantially shown on a plan attached, referred to numbered #6240, which is incorporated herein by reference and to lay and maintain underground laterals, cables and wires in the above or intersecting public ways for the purpose of making connections with the pole as it may desire for distributing purposes, reports thereon as follows:

By virtue of Chapter 708 of the Acts of 1977 the Board of Public Works held the hearing on the above matter provided for in Section 22 of Chapter 166 of the General Laws. The hearing was held on September 21, 2016 at 5:00 P.M. at the corner of Bristol Street and Marlborough Street Springfield, MA. Three (3) members of the Board were present and one (1) persons interested in the matter were present. Of the latter, one (1) voted in favor of and no-one (0) voted against.

The Board finds the request necessary in order that the electrical utility company improves the reliability in the area.

After careful consideration, the Board recommends the petition be granted provided:

That due care for public safety is exercised during construction including but not limited to the use of a police officer(s) for traffic control if necessary.

That said construction would not unnecessarily interfere with the movement of vehicular or pedestrian traffic in the area.

That care be taken during said construction not to damage any underground services.

That the construction site be returned to the same condition as found or better.

Said company shall indemnify and save harmless against all damages, costs and expenses whatsoever to which the City may be subjected in consequence of the acts or neglect of said Company, its agents or servants, or in any manner arising from the rights and privileges granted it by the City.

In addition said company shall, before a public way is disturbed for the laying of its wire or conduit, execute its bond in the penal sum of Ten Thousand Dollars (\$10,000) conditioned for faithful performance of its duties under this permit.

Said company shall comply with the requirements of existing Ordinances and orders and comply with any changes in Ordinances and orders as may hereafter be adopted by the Mayor and Council governing the construction and maintenance of buried cable, conduits and wires.

That any sidewalks that are damaged or removed will be replaced in kind and in accordance with the City of Springfield's Standard Specifications.

That ramps for the handicapped will be provided if and where required by law and in conformance with the Rules and Regulations of the Massachusetts Architectural Barrier Board.

That any curbing that is disturbed during construction will be reset to the established street grade using proper construction procedures.

That due care be exercised not to unnecessarily damage any public shade trees located within the construction area.

That the Springfield Water and Sewer Commission be notified before construction begins. All installations of adjacent utilities must be a minimum of 4 feet from the existing water and/or sewer main, edge to edge of pipe.

That all conditions set forth in the respective order are complied with.

_____))
 _____)) BOARD OF PUBLIC WORKS

_____)

RESULT: RECEIVED PASSED

EVERSOURCE ENERGY

TOWN

SPRINGFIELD

VERIZON NEW ENGLAND INC

STREET

MARLBOROUGH ST



WATER

SEWER

BRISTOL ST

GAS

GRASS

SIDEWALK

PROPOSED POLE

POLE TO BE REMOVED

26'

3'

18'

MARLBOROUGH ST

PURPOSE AND DESCRIPTION

RELOCATE EXISTING POLE # 234/9 AT THE INTERSECTION OF MARLBOROUGH ST AND BRISTOL ST TO CREATE ADDITIONAL CIRCUIT TIES TO IMPROVE RELIABILITY

LEGEND

- | | | |
|--|-------------------------|-----------|
| ● PROPOSED JOINT POLE | ⊕ HANDHOLE | □ MANHOLE |
| ● PROPOSED EVERSOURCE POLE | ■ PAD MOUNT TRANSFORMER | ⬢ HEXHOLE |
| ⊗ EXISTING JOINT POLE | | |
| ○ EXISTING EVERSOURCE POLE | | |
| ⊗ EXISTING EVERSOURCE POLE TO BE JOINT | | |
| ⊗ EXISTING FOREIGN POLE TO BE JOINT | | |

DRAWN BY

ROB DAVIS

W.O.#

6S621403

DISTANCES ARE APPROXIMATE

1" = 20'

PETITION NO.

#6240

WR# 2761391

PETITION FOR JOINT OR IDENTICAL POLE RELOCATIONS

To the City Council of the City of Springfield, Massachusetts

EVERSOURCE and VERIZON NEW ENGLAND INC requests permission to relocate a line of poles, wires, cables and fixtures, including the necessary sustaining and protecting fixtures along and across the following public way:

MARLBOROUGH ST

RELOCATE EXISTING POLE# 234/9 AT THE INTERSECTION OF MARLBOROUGH ST AND BRISTOL ST TO CREATE ADDITIONAL CIRCUIT TIES TO IMPROVE RELIABILITY.

Drawing # 6240

Wherefore it prays that after due notice and hearing as provided by law, let it be granted a relocation for and permission to construct and maintain a line of poles, wires and cables, together with such sustaining and protecting fixtures as they may find necessary, said poles to be erected substantially in accordance with the plan filed herewith and made a part hereof marked -

Also for permission to lay and maintain underground laterals, cables and wires in the above or intersecting public ways for the purpose of making connections with such poles and buildings as each of said petitioners may desire for distributing purposes.

Your petitioners agree to reserve space for one crossarm at a suitable point on each of said poles for the fire and police telephone signal wires belonging to the municipality and used by it exclusively for municipal purposes.

EVERSOURCE

By 
ROBERT DAVIS, SENIOR PROJECT SPECIALIST
Phone # 413 787-9554

VERIZON NEW ENGLAND INC

BY 
Albert Bessette, Manager Right-of-Way

Dated this 2ND day of AUGUST, 2016.

Attachment: Petition #6240 (3673 : Marlborough Street (Eversource #6240))

**DEPARTMENTAL AND INTERDEPARTMENTAL CORRESPONDENCES
CITY OF SPRINGFIELD
MASSACHUSETTS**

DATE: September 8, 2016

TO: Anthony I Wilson, Esq.
City Clerk

FROM: Hector Velez, DPW Engineer
on behalf of BPW

DEPARTMENT: City Clerk

SUBJECT: Board's agenda for:
September 21, 2016

NOTICE OF MEETING

Wednesday, September 21, 2016 – At the corner of Bristol Street and Marlborough Street in Springfield, MA at 5:00 P.M

Minutes of Previous Meeting
Communications
Old Business

EVERSOURCE

New Business: MARLBOROUGH STREET

HEARING RE: To relocate existing pole #234/9 to create additional circuit ties to improve reliability.

Attachment: 9-21-2016 marlborough st. #6240 (3673 : Marlborough Street (Eversource #6240))



City Council

ADOPTED

13

Meeting: 10/03/16 07:00 PM
Initiator: Jennifer Whisher
Sponsors: Mayor Domenic J. Sarno
DOC ID: 3623

Riverfront Park Grant - Host Community Agreement Funds - \$1,000,000 (Mayor Sarno)

WHEREAS, pursuant to Paragraph 3 of Exhibit E to the Host Community Agreement, as amended, between the City of Springfield, Blue Tarp redevelopment, LLC and, via joinder, MGM Springfield redevelopment, LLC (collectively, "MGM"), MGM has provided the City with a grant of One Million Dollars (\$1,000,000) to be used to fund improvements to Riverfront Park; and

WHEREAS, the Department of Capital Asset Construction ("the Department") intends to use the grant funds to remodel the City's down town Riverfront Park, aimed at enhancing the accessibility and appearance of the Park; and

WHEREAS, the Department has accepted the grant and requests authorization from the City Council and the Mayor to expend the grant funds listed below for the purposes of such grants; and

WHEREAS, the Chief Administrative and Financial Officer, after an evaluation of all pertinent financial information reasonably available, has certified that the City's financial resources and revenues are and will continue to be adequate to support the proposed expenditures and obligations involved in the City Council Order authorizing the expenditure of the grant funds listed herein, subject to the approval of the Mayor, without a detrimental impact on the continuous provision of the existing level of municipal services, in accordance with Section 2(f) of Chapter 656 of the Acts of 1989, as added by Section 1 of Chapter 468 of the Acts of 2008.

NOW THEREFORE BE IT ORDERED, acting pursuant to Mass. Gen. Laws Ch. 44, Sec. 53A, that the City Council approves the expenditure by the Department of the grant funds listed below for the purposes of such grant, subject to the approval of the Mayor, and the grant funds received shall be deposited with the City Treasurer and held as a separate account and may be expended for the purposes of the grant without further appropriation:

Riverfront Park Grant - Host Community Agreement - \$1,000,000

RESULT: PASSED BY VOICE VOTE



Frank P. Fitzgerald
 John E. Drost, Jr.
 Stephanie A. Fitzgerald †
 Brian S. Fitzgerald *
 Jane L. Mantolesky
 Daniel T. Wright *

†Also admitted in New York
 *Also admitted in Connecticut

Direct e-mail: fpf@fitzgeraldlaw.com

August 8, 2016

VIA IN-HAND DELIVERY

Mayor Domenic Sarno
 City of Springfield, City Hall
 36 Court Street, Room 210
 Springfield, MA 01103

Re: Riverfront Park \$1 Million Grant

Dear Mayor Sarno:

Please be advised that, pursuant to Paragraph 3 of Exhibit E to the Host Community Agreement, as amended, between the City of Springfield, Blue Tarp reDevelopment, LLC and, via joinder, MGM Springfield reDevelopment, LLC (collectively, "MGM"), MGM has provided the City with a grant of One Million Dollars (\$1,000,000) to be used to funds improvements to Riverfront Park. The grant should have been received August 4, 2016, via wire transfer.

Should you have any questions or concerns please feel free to contact me.

Sincerely,

Frank P. Fitzgerald

cc: Michael Mathis, President and COO, MGM Springfield, via email
 Edward Pikula, Solicitor, City of Springfield, via email
 Kevin Kennedy, Chief Development Officer, City of Springfield, via email
 Seth N. Stratton, Vice President and General Counsel, MGM Springfield, via email

Attachment: Riverfront Park Grant Letter to Mayor Sarno (3623 : Riverfront Park Grant - \$1,000,000)



REQUEST FOR GRANT SETUP

This form and the required attachments are required by the Office of the City Comptrollers before a Grant Fund and related accounts will be created in MUNIS. Please do not use this form for requesting a non-grant related account to be created – use the Request for New Account form instead. Please return this form and the required attachments to the Office of the City Comptrollers.

All fields are mandatory.

Date of Request	9/26/2016
Department Requesting Grant Setup	DCAC
Department Phone # (Please include extension)	x6445
Name and Title of Person to Contact in Case of Questions	Peter Garvey
Was this Grant previously setup for a prior fiscal year?	No
If yes, please indicate your previous project number:	
If this is a new Grant, have you filled out the “Approval to apply for a grant” Form?	
(Y/N) N	If yes, please attach a copy of the Approved Form.

Grant Type:

State – Highway
 Federal Pass-Through DOE– School
 Federal Direct– School
 Federal – City
 State DOE– School
 State Other – School
 State – City
 X Private/Other (MGM Host Community Agreement)

Grant Name: Riverfront Park Grant – MGM Host Community Agreement

Total Grant Amount Awarded: \$ 1,000,000

Is this a Reimbursable Grant? (Y/N) N

A Reimbursable Grant is defined as one that requires that you pay for expenses first and then you apply to the grantor for a reimbursement of the exact amount actually expended.

If it is a Reimbursable Grant, please enter Grantor contact information or the CID # if

Grantor is already in the customer file:

Entity Name

Contact Person

Street Address

City, State, Zip Code

Telephone

Fax

E-Mail

Actual Award Date

Board Approval Date

Start Date

Expiration Date

Renewal Action Date (optional)

If there are any Matching Funds:

Type

Percent

Amount

Comments re: Description/Purpose of Grant

"To fund improvements at Riverfront Park."

Comments re: Conditions/Restrictions of Grant

Pursuant to Paragraph 3 of Exhibit E to the Host Community Agreement, as amended, between the City of Springfield, Blue Tarp reDevelopment, LLC and, via joinder, MGM Springfield reDevelopment, LLC (collectively, "MGM")

If this is a Federal Grant, enter CFDA#:

If applicable enter the State ID # :

What is the required drawdown frequency?

(Ex: Monthly, Quarterly)

If payment is to be sent by Grantor as a Wire,

Please enter any wire reference/identification # that may be used (if known)

Please list all object codes needed for the grant.
(Attach additional sheets if additional orgs and roll-ups are needed):

Org Code:

Object Codes:

Budget Roll-Up Codes:

I hereby attest that under the penalties of Chapter 656, I will adhere to all regulations in this grant agreement. I am responsible for timely and accurate reimbursements in the amounts listed above.

Signature

Date

Please attach the following documents:

- ☐ Signed Approval to Apply for a Grant Form
- ☐ Grant Award Letter
- ☐ City Council/Mayor Approval
- ☐ Any other relevant documentation

This Form and all relevant attachments will be scanned and attached in the Grant Maintenance module in MUNIS and can be viewed or printed at your convenience.



City Council

ADOPTED

14

Meeting: 10/03/16 07:00 PM
Initiator: Melanie Acobe
Sponsors: Mayor Domenic J. Sarno
DOC ID: 3665

Department of Public Works Recycling Dividend Program (RDP) Grant - \$56,000 (Mayor Sarno)

WHEREAS, the Department of Public Works (Department) has been awarded a Recycling Dividend Program (RDP) grant of \$56,000.00 from the Massachusetts Department of Environmental Protection (MassDEP); and

WHEREAS, the grant will be used to improve City recycling and waste reduction programs and policies; and

WHEREAS, the Department intends to use the grant funds to purchase recycling bins and or related items; and

WHEREAS, the Department has accepted the grant and requests authorization from the City Council and the Mayor to expend the grant funds listed for the purposes of such grants; and

WHEREAS, the Acting Chief Administrative and Financial Officer, after an evaluation of all pertinent financial information reasonably available, has certified that the City's financial resources and revenues are and will continue to be adequate to support the proposed expenditures and obligations involved in the City Council Order authorizing the expenditure of the grant funds listed herein, subject to the approval of the Mayor, without a detrimental impact on the continuous provision of the existing level of municipal services, in accordance with Section 2(f) of Chapter 656 of the Acts of 1989, as added by Section 1 of Chapter 468 of the Acts of 2008.

NOW THEREFORE BE IT ORDERED, acting pursuant to Mass. Gen. Laws ch. 44, sec. 53A, that the City Council approves the expenditure by the Department of the grant funds listed below for the purposes of such grant, subject to the approval of the Mayor, and the grant funds received shall be deposited with the City Treasurer and held as a separate account and may be expended for the purposes of the grant without further appropriation:

Department of Public Works Recycling Dividend Program Grant - \$56,000

RESULT: PASSED BY VOICE VOTE



REQUEST FOR GRANT SETUP

This form and the required attachments are required by the Office of the City Comptrollers before a Grant Fund and related accounts will be created in MUNIS. Please do not use this form for requesting a non-grant related account to be created – use the Request for New Account form instead. Please return this form and the required attachments to the Office of the City Comptrollers.

All fields are mandatory.

Date of Request 11/17/2015

Department Requesting Grant Setup Public Works

Department Phone # (Please include extension) 787-6476

Name and Title of Person to Contact in Case of Questions Greg
Superneau-Deputy Director

Was this Grant previously setup for a prior fiscal year?
If yes, please indicate your previous project number: No

If this is a new Grant, have you filled out the "Approval to apply for a grant" Form?
(Y/N) Yes If yes, please attach a copy of the Approved Form.

Grant Type:

State –DEP
Federal Pass-Through DOE– School
Federal Direct– School
Federal – City
State DOE– School
State Other – School
State –City
Private/Other

Grant Name: Recycling Dividend Program

Total Grant Amount Awarded: \$ 56,000.00

Is this a Reimbursable Grant?

(Y/N) No

A Reimbursable Grant is defined as one that requires that you pay for expenses first and then you apply to the grantor for a reimbursement of the exact amount actually expended.

If it is a Reimbursable Grant, please enter Grantor contact information or the CID # if Grantor is already in the customer file:

Entity Name

Contact Person

Street Address

City, State, Zip Code

Telephone

Fax

E-Mail

Actual Award Date 9/30/2015

Board Approval Date 11/16/2015

Start Date 11/17/2015

Expiration Date 6/30/2017

Renewal Action Date (optional)

If there are any Matching Funds:

Type

Percent

Amount

Comments re: Description/Purpose of Grant

To provide funds for the purchase of recycling educational materials and equipment to support the recycling collection program.

Comments re: Conditions/Restrictions of Grant

Must be used on MA DEP approved expenses

If this is a Federal Grant, enter CFDA#:

If applicable enter the State ID # :

What is the required drawdown frequency?

(Ex: Monthly, Quarterly) N/A

If payment is to be sent by Grantor as a Wire,

Please enter any wire reference/identification # that may be used (if known)

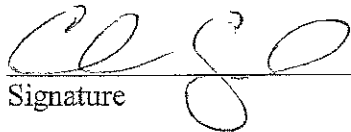
Please list all object codes needed for the grant.
(Attach additional sheets if additional orgs and roll-ups are needed):

Org Code:

Object Codes: 527020,530105,531020,531200,534300,551700

Budget Roll-Up Codes:

I hereby attest that under the penalties of Chapter 656, I will adhere to all regulations in this grant agreement. I am responsible for timely and accurate reimbursements in the amounts listed above.

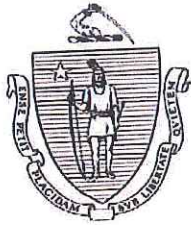

Signature

11-19-15
Date

Please attach the following documents:

- ☒ Signed Approval to Apply for a Grant Form
- ☐ Grant Award Letter
- ☒ City Council/Mayor Approval
- ☐ Any other relevant documentation

This Form and all relevant attachments will be scanned and attached in the Grant Maintenance module in MUNIS and can be viewed or printed at your convenience.



CHARLES D. BAKER
GOVERNOR

OFFICE OF THE GOVERNOR
COMMONWEALTH OF MASSACHUSETTS
STATE HOUSE • BOSTON, MA 02133
(617) 725-4000

*Done
Chris C. / Greg S.
@ DPPW
9/35 gk/m*

KARYN E. POLITO
LIEUTENANT GOVERNOR

September 7, 2016

Dear Mayor Domenic J. Sarno,

Congratulations! I am pleased to notify you that the City of Springfield has been awarded a Recycling Dividends Program grant of \$56,000 through the Sustainable Materials Recovery Program. I want to thank you for your commitment to reducing waste and increasing recycling for the benefit of our communities and the environment.

Enclosed you will find further instructions from the Department of Environmental Protection on next steps. Please feel free to contact Tina Klein if you have any questions.

Governor Charles D. Baker

Lt. Governor Karyn E. Polito

Charles Baker

Karyn E. Polito





Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

One Winter Street Boston, MA 02108 • 617-292-5500

Charles D. Baker
Governor

Karyn E. Polito
Lieutenant Governor

Matthew A. Beaton
Secretary

Martin Suuberg
Commissioner

September 7, 2016

Mayor Domenic J. Sarno
City of Springfield
36 Court Street
Springfield, MA 01103

Dear Mayor Sarno,

Congratulations! It is my pleasure to inform you that the Massachusetts Department of Environmental Protection (MassDEP) has awarded the City of Springfield Recycling Dividends funds and Small-Scale Initiative funds under the Sustainable Materials Recovery Program. The City of Springfield has earned 9 points and will receive \$56,000.

Please note, awards for the following grant categories are being evaluated (Mattress Recycling Initiative, SMART/PAYT, Curbside Recycling/Food Waste Carts, Drop-off Equipment, School Recycling Assistance, Waste Reduction Enforcement Coordinator, Waste Reduction Projects, Organics Capacity Projects) and will be announced separately.

The Sustainable Materials Recovery Program (SMRP) was created under 310 CMR 19.300-303 and the Green Communities Act, which directs a portion of the proceeds from the sale of Waste Energy Certificates to recycling programs approved by MassDEP. The Recycling Dividends Program (RDP) provides payments to municipalities that have implemented specific programs and policies proven to maximize reuse, recycling and waste reduction. Municipalities receive payments according to the number of criteria points their program earns. Eligibility criteria will ramp up over time, leveraging increasingly greater diversion results and lower solid waste disposal.

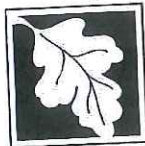
The key dates and deadlines specific to your award are summarized in the enclosed Checklist. The detailed terms and conditions are specified in the RDP Contract which has been mailed to the Recycling Contact of record for your municipality, copied below. The Recycling Contact will facilitate getting this document signed by an Authorized Signatory and will return it to MassDEP. Once received, the RDP Payment will be remitted to your municipality. Should you have any questions, please call Tina Klein at 617-292-5704.

Thank you for your commitment to advancing recycling and waste reduction in Massachusetts. Together our efforts will reduce greenhouse gas emissions, conserve natural resources and save energy, while also supporting jobs and reducing disposal costs for waste generators and municipalities.

Sincerely,

Martin Suuberg
Commissioner

cc: Jacob Seldin, Assistant Solid Waste Manager



Massachusetts Department of Environmental Protection
Bureau of Waste Prevention
Sustainable Materials Recovery Program

Checklist for Recycling Dividends Program Grant Award

Instructions:

- Note the following deadlines and requirements for this grant.
- Have the enclosed RDP Contract (sent only to the municipal Recycling Contact copied on the enclosed award letter) signed by an authorized signatory and return the signed original to Tina Klein, MassDEP no later than December 31, 2016.
- Report annual expenditures of RDP funds and RDP balance remaining by February 15th for the previous calendar year.
- Awarded Small-Scale Initiative funds, if any, are noted in Section 13 of the RDP Contract, and will be consolidated with the municipality's RDP award. Consolidated funds must be spent according to Section 8 of the RDP Contract, and accounted for as described below in steps two and three.

STEP ONE: RDP Contract

The RDP Contract must be signed by one of the individuals listed on page 1 of the Authorized Signatory Listing form, which your municipality filed with MassDEP for this grant program. For reference, a copy of your Authorized Signatory Listing has been sent to the municipal Recycling Contact. If the person(s) listed on the form has changed (for example, a new Mayor has been elected), the municipal official with the same title may sign the RDP Contract. A new Authorized Signatory Listing form IS NOT REQUIRED.

The signed original RDP Contract must be returned to the address listed below **no later than December 31, 2016 or funds will be forfeited.**

STEP TWO: TRACK EXPENDITURES BY APPROVED EXPENSE CATEGORY

- This is not a reimbursement-based grant. Your award payment will be processed as soon as the RDP Contract is returned.
- However, you are required to keep track of approved expenditures, by expense categories. See Section 8 – Use of Funds, for a list of approved expense categories, and Section 9 for record keeping requirements.
- Be prepared to be audited.

STEP THREE: REPORT EXPENDITURES AND REMAINING BALANCE

- Funds do not need to be spent in the fiscal year awarded; they may be accumulated across fiscal years in order to make a larger purchase than is possible with one year's award. The municipality is required to report all expenditures from the previous calendar year no later than February 15th.

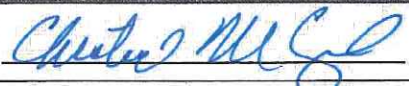
Contact Dawn Quirk with any questions: 617-292-5557 or Dawn.Quirk@state.ma.us

Return completed documents to: Tina Klein, MassDEP, Consumer Programs, One Winter Street, 7th Floor, Boston, MA 02108



City of Springfield, Massachusetts

Form: Approval to Apply for a Grant

General Information			
Title of Grant	Recycling Dividend Program		
Submission Due Date	June 15, 2016		
Granting Agency	Commonwealth of Massachusetts Department of Environmental Protection		
Purpose/Summary of Grant:	The Recycling Dividends Program provides payments to municipalities that have implemented specific programs and policies proven to maximize reuse, recycling and waste reduction. RDP payments shall be expended on approved equipment and activities to enhance the performance of the municipalities waste reduction program.		
Amount of Grant	\$56,000	Department	Department of Public Works
Staff Contact Name	Greg Superneau	Contact Information	(413) 787-6476
Matching funds and/or support required			
Are matching funds required?	☐ Yes ☒ No	If yes, dollar amount, timing, and source:	
Are you hiring new staff under this grant? Note: the City's <i>Fiscal Policies and Procedures</i> require that the hiring department structure the hiring as grant funded and temporary.	☐ Yes ☒ No	If yes, describe how this will be done:	
If hiring, list # of positions:			
Full time or part time?			
Fringe Benefits? (Y/N)			
Does work needed by the grant require staff hours from other departments?	☐ Yes ☒ No	If yes, describe whether that department or those departments have been notified, and whether those staff hours are covered under the grant:	
Are you purchasing IT equipment under this grant? Note: the City's <i>Fiscal Policies & Procedures</i> require that MTS be notified of all IT purchases.	☐ Yes ☒ No	If yes, describe equipment and software (include information on how upgrades for both hardware and software will be funded):	
Is IT equipment and software support covered under the grant?	☐ Yes ☒ No	If yes, describe costs covered and who will be providing the support:	
Are you requesting capital projects under this grant? Note: the City's <i>Fiscal Policies & Procedures</i> require capital project be approved in the City's centralized capital planning process.	☐ Yes ☒ No	If yes, describe who will be providing on-going maintenance and whether / how those cost are covered:	
Sign-off			
DEPARTMENT HEAD		Date	9-28-16
GRANTS DIRECTOR	_____	Date	

Please Scan & E-mail this Form to Czerw Wojcik at cwojcik@springfieldcityhall.com

**RECYCLING DIVIDEND PROGRAM CONTRACT ("RDP Contract")
BETWEEN THE COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF ENVIRONMENTAL PROTECTION ("MassDEP")**

AND THE City of Springfield ("Municipality")

Pursuant to the Green Communities Act, relevant provisions of which are codified at M.G.L. c. 25A, Section 11F(d) and the regulations promulgated thereunder at 310 CMR 19.300 and in support of the Massachusetts Solid Waste Master Plan developed pursuant to M.G.L. c. 16, Section 21, MassDEP has awarded the Municipality a Sustainable Materials Recovery Program grant under the Recycling Dividends Program ("RDP") and Small Scale Initiatives grant. The Municipality has earned a payment of \$56,000.

The Recycling Dividends Program provides payments to municipalities that have implemented specific programs and policies proven to maximize reuse, recycling and waste reduction. Municipalities receive payments according to the number of criteria points their program earns. RDP provides an incentive for municipalities to improve their recycling programs by implementing best practices and it rewards communities with model recycling and waste reduction programs.

Duration: The term of this Contract shall be in effect until the municipality has expended all RDP funds and reported to MassDEP on use of funds.

RESPONSIBILITIES OF THE MUNICIPALITY

1. **Authority:** The Signatory of this RDP Contract is authorized by the governing body of the Municipality to enter into this Contract on behalf of the Municipality and apply for and accept funds on behalf of the Municipality.
2. **Commonwealth Terms and Conditions:** The Municipality shall comply with the Commonwealth Terms and Conditions and other requirements set forth in the Municipality's executed Master Service Agreement.
3. **Failure to Comply:** If, in the judgment of MassDEP, the Municipality fails to comply with any of its responsibilities identified in this Contract, then, at the election of MassDEP, (a) the Municipality shall repay the RDP funds to MassDEP within 90 days; and/or (b) title to all materials purchased with the RDP funds immediately and without any further steps shall be transferred to MassDEP; and/or (c) MassDEP may find the Municipality not eligible to seek another Sustainable Materials Recovery Program Grant for up to three years. MassDEP may provide written notice to the Municipality of any such failure to comply. Such notice may provide a time period and manner for the Municipality to cease or remedy the failure. Such notice from MassDEP of any such failure by the Municipality is not a precondition to MassDEP's right to select options (a), (b), and/or (c) above. The Municipality shall follow the instructions of MassDEP regarding possession of the materials purchased with RDP funds. The Parties hereby agree to execute any and all documents necessary to accomplish said transfer. Furthermore, the Municipality shall transfer or arrange to transfer actual possession of said materials to an authorized representative of the Commonwealth of Massachusetts or its designee.
4. **Recycling in Practice:** The Municipality has established paper, bottle and can recycling in all municipal offices and meeting spaces, excluding schools. The Municipality shall continue such paper, bottle and can recycling during the term of the RDP Contract.
5. **Buying Recycled Products:** The Municipality has established a written policy which promotes a preference for the purchase of recycled products in lieu of non-recycled products and all staff with purchasing authority are aware of and are following the established policy during the term of the RDP Contract. Proof of annual buy recycled policy staff notification is required for all SMRP grant applications.

6. **RDP Payment Calculation:** MassDEP has calculated the RDP Payment using the table below which shows payment brackets based on the number of households served by the municipal solid waste program and the point value for each bracket. *Section 7 – Program Criteria* and *Appendix A – Criteria Performance Standards* describe in detail the conditions for earning points.

Trash Households Served	Value of Each Point
1 - 1,999	\$200
2,000 - 4,999	\$400
5,000 - 7,499	\$600
7,500 - 9,499	\$1,000
9,500 - 12,499	\$1,500
12,500 - 16,999	\$2,500
17,000 - 24,999	\$3,000
25,000 - 31,999	\$3,500
32,000 - 99,999	\$4,000
100,000 +	\$10,000

7. **Program Criteria:** The Municipality, through its RDP application, certifies that all points earned are for programs that were in place no later than June 15, 2016 and that these programs fully meet the performance standard set forth in *Attachment A – Criteria Performance Standards*. *Section 13 – RDP Payment Calculation* lists the program criteria for which the Municipality has earned points, and upon which the Municipality's payment was calculated.
8. **Use of Funds:** RDP Payments shall be expended on approved equipment and activities, listed below, to enhance the performance of the Municipality's waste reduction programs. Use of a dedicated account or revolving account is recommended but not required. Funds do not have to be spent in the fiscal year received, and may be carried over to future years and accumulated to fund a larger eligible expense or project. Small-Scale Initiative awarded as part of this contract and referenced in Section 13 follow the same Use of Funds requirements.

Approved Equipment and Activities (See Grant Guidance for details and examples):

- Recycling carts, bins, and/or other recycling collection containers and signage;
- Compost bins, kitchen scrap buckets, carts and other collection containers for food waste/organics;
- Environmentally Preferred Products including rain barrels and purchases from state contract FAC85 Categories: 1, 2, 3, 5C, 5E, 5F, 5H, and 7. Compostable foodservice ware may be purchased from GRO29;
- Incremental operating costs for a new organics diversion program;
- Roll-off containers, compactors and balers for the collection of materials for reuse or recycling;
- Cost to host a second or subsequent household hazardous waste collection event; conditions apply (see Grant Guidance);

- g. Dedicated Waste Reduction Enforcement Coordinator (must spend designated time each week on enforcement). Mandatory recycling must be codified in regulation, ordinance or bylaw and must include a fine for non-compliance. Municipalities receiving a Waste Reduction Enforcement Coordinator (WREC) SMRP grant may not use RDP funding as part of the matching funds requirement;
 - h. Costs associated with the collection and recycling of materials listed in the CHARM section of the RDP grant application;
 - i. Establishing and/or maintaining a municipally operated swap shop;
 - j. Recycling collection infrastructure and recycling site improvements at schools and drop-off locations with prior approval from MassDEP;
 - k. Recycling outreach and educational tools and materials listed and described in the Approved Equipment and Activities section of the Recycling Dividends Program (RDP) Grant Guidance;
 - l. Costs associated with implementing or maintaining a Pay-As-You-Throw (PAYT) program;
 - m. Funds to enhance school recycling and composting programs;
 - n. School chemical disposal;
 - o. Reusable trays for cafeterias, small compostable cups, reusable bags, reusable water bottles;
 - p. Funding up to \$750 annually for recycling related conferences and memberships.
9. Record Keeping: The Municipality shall be responsible for keeping documentation (i.e. proof of purchase in the form of an invoice which lists the vendor name and address, item purchased, item price, number of items purchased and shipping costs if any) by calendar year, of how RDP funds were expended and the remaining balance of RDP funds. MassDEP may conduct record audits each year to ensure compliance with this Contract.
10. Reporting: By February 15th of each year, for the duration of the Contract, the Municipality shall submit the Recycling and Solid Waste survey and the Recycling Dividends Program Annual Report through its ReTRAC Connect™ account. Failure to comply with these reporting requirements will jeopardize future grant awards and RDP payments.
11. Environmental Compliance: The Municipality understands receipt of RDP funds from MassDEP does not in any way imply that the Municipality is in full compliance with all applicable environmental regulations. This Municipality shall not be construed as, nor operate as, relieving the Municipality or any other person of the necessity of complying with all applicable federal, state, and local laws, regulations and approvals. The Municipality's facility(ies) are subject to inspection at any time by MassDEP and noncompliance with applicable environmental regulations may result in formal enforcement actions, including penalties.
12. Addendums: Should MassDEP award additional RDP funds, an addendum to the Contract shall be provided to the Municipality. The same terms and conditions apply to the addendum.

13. RDP Payment Calculation:

The Municipality's payment has been calculated as follows:
 (Value of each point) x (Total RDP Points) + (Small Scale payment amount)

a. Solid Waste Program	0
b. Organics	0
c. Bulky Items	2
d. Yard Waste	2
e. Mandatory Recycling	3
f. Household Hazardous Waste	2
g. Center for Hard to Recycle Materials	0
h. Textile Bonus Point	0

TOTAL RDP POINTS	9
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VALUE OF EACH POINT	\$6,000
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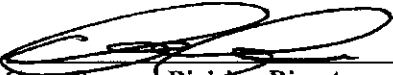
RDP PAYMENT AMOUNT	\$54,000
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SMALL-SCALE PAYMENT AMOUNT	\$2,000
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TOTAL GRANT PAYMENT AMOUNT	\$56,000
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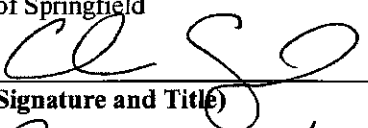
IN WITNESS WHEREOF, MassDEP and the Municipality hereby execute this Contract.

COMMONWEALTH OF MASSACHUSETTS

By: 
 Greg Cooper, Division Director
 Bureau of Air and Waste
 Department of Environmental Protection

9/21/16
 (Date)

City of Springfield

By:  DPW Dir
 (Signature and Title)
CHRISTOPHER M CIGNOLI
 (Print Name)

9-13-16
 (Date)

11/25/2015 09:01
Superneau

CITY OF SPRINGFIELD
G/L ACCOUNT DETAIL

P
glacling

Org: 28984000 Object: 461000 Project: 18436
GRANT REVENUE - STATE 2898-40-400-0000-0000-0090-000000-461000-18436

YEAR PER JOURNAL EFF DATE	SRC TR PO/REF2	REFERENCE	AMOUNT	POSTED
2016 05 001776	11/23/2015 BUC 5	NEW BUDGET RECYCLING	-56,000.00	X
Total Amount:			-56,000.00	

** END OF REPORT - Generated by Greg Superneau **



City Council

ADOPTED

15

Meeting: 10/03/16 07:00 PM
Initiator: Melanie Acobe
Sponsors: Mayor Domenic J. Sarno
DOC ID: 3667

FY17 Massachusetts Cultural Council Grant Acceptance - No Match Required \$11,300 (Mayor Sarno)

WHEREAS, the Library Department ("Department") has been awarded a Massachusetts Cultural Council, Cultural Investment Portfolio (CIP) Grant of \$11,300.00 from the Massachusetts Cultural Council (MCC); and

WHEREAS, the grant funds are intended to promote a vigorous art and cultural environment that seeks to improve the quality of life for Commonwealth residents; and

WHEREAS, the Department intends to use the grant funds to engage the community by connecting them to timely, accessible resources that will promote responsive public service, lifelong learning, independence and individual personal achievement for citizens of all ages. Further, the department will provide opportunities for community members to challenge and examine their world, and to explore the diversity of other worlds and heritages; and

WHEREAS, the Department has accepted the grant and requests authorization from the City Council and the Mayor to expend the grant funds listed below for the purposes of such grants; and

WHEREAS, the Chief Administrative and Financial Officer, after an evaluation of all pertinent financial information reasonably available, has certified that the City's financial resources and revenues are and will continue to be adequate to support the proposed expenditures and obligations involved in the City Council Order authorizing the expenditure of the grant funds listed herein, subject to the approval of the Mayor, without a detrimental impact on the continuous provision of the existing level of municipal services, in accordance with Section 2(f) of Chapter 656 of the Acts of 1989, as added by Section 1 of Chapter 468 of the Acts of 2008.

NOW THEREFORE BE IT ORDERED, acting pursuant to Mass. Gen. Laws ch. 44, sec. 53A, that the City Council approves the expenditure by the Department of the grant funds listed below for the purposes of such grant, subject to the approval of the Mayor, and the grant funds received shall be deposited with the City Treasurer and held as a separate account and may be expended for the purposes of the grant without further appropriation:

FY17 Mass Cultural Council Grant Acceptance - \$11,300.00

RESULT: PASSED BY VOICE VOTE



REQUEST FOR GRANT SETUP

This form and the required attachments are required by the Office of the City Comptrollers before a Grant Fund and related accounts will be created in MUNIS. Please do not use this form for requesting a non-grant related account to be created – use the Request for New Account form instead. Please return this form and the required attachments to the Office of the City Comptrollers.

All fields are mandatory.

Date of Request 9/20/2016

Department Requesting Grant Setup Library

Department Phone # (Please include extension) 263-6828
x290

Name and Title of Person to Contact in Case of Questions C Leaders, Bus Mgr

Was this Grant previously setup for a prior fiscal year? Yes
If yes, please indicate your previous project number: 83616

If this is a new Grant, have you filled out the “Approval to apply for a grant” Form?
(Y/N) If yes, please attach a copy of the Approved Form.

Grant Type:

State – Highway
Federal Pass-Through DOE– School
Federal Direct– School
Federal – City
State DOE– School
State Other – School
X State – City
Private/Other

Grant Name: Massachusetts Cultural Council

Total Grant Amount Awarded: \$11,300

Is this a Reimbursable Grant? (Y/N) N

A Reimbursable Grant is defined as one that requires that you pay for expenses first and then you apply to the grantor for a reimbursement of the exact amount actually expended.

If it is a Reimbursable Grant, please enter Grantor contact information or the CID # if Grantor is already in the customer file:

Entity Name

Contact Person

Street Address

City, State, Zip Code

Telephone

Fax

E-Mail

Actual Award Date 9/9/2016

Board Approval Date

Start Date 9/9/2016

Expiration Date 6/30/2017

Renewal Action Date (optional)

If there are any Matching Funds:

Type

Percent

Amount

Comments re: Description/Purpose of Grant

Comments re: Conditions/Restrictions of Grant

If this is a Federal Grant, enter CFDA#:

If applicable enter the State ID # :

What is the required drawdown frequency?
(Ex: Monthly, Quarterly)

If payment is to be sent by Grantor as a Wire,
Please enter any wire reference/identification # that may be used (if known)

Please list all object codes needed for the grant.
(Attach additional sheets if additional orgs and roll-ups are needed):

Org Code: 28366105

Object Codes: 530105 551700 571100 551300 524020 531040 531200 580600

Budget Roll-Up Codes: YES

I hereby attest that under the penalties of Chapter 656, I will adhere to all regulations in this grant agreement. I am responsible for timely and accurate reimbursements in the amounts listed above.

____Molly Fogarty____
Signature

____9/21/2016_____
Date

Please attach the following documents:

- ☐ Signed Approval to Apply for a Grant Form
- ☐ Grant Award Letter
- ☐ City Council/Mayor Approval
- ☐ Any other relevant documentation

This Form and all relevant attachments will be scanned and attached in the Grant Maintenance module in MUNIS and can be viewed or printed at your convenience.



MASSACHUSETTS CULTURAL COUNCIL

10 St. James Avenue
Boston, MA 02116-3803

617.858.2700
800.232.0960 Toll Free
617.727.0044 Fax
mcc@art.state.ma.us E-mail
www.massculturalcouncil.org Web

September 9, 2016

Domenic Sarno, Mayor
City of Springfield
City Hall
36 Court Street
Springfield, MA 01103-1683

Dear Mayor Sarno:

Congratulations! We are pleased to inform you that Springfield City Library has been awarded an FY17 Cultural Investment Portfolio (CIP) grant from the Massachusetts Cultural Council (MCC) in the amount of \$11,300 (Grant #FY17-CI-CAO-0350). The enclosed Contract Package contains award instructions and reporting requirements for this grant.

Please review the contract carefully and return the required paperwork to Cyndy Gaviglio, Contracts Officer at the MCC by Monday, February 6, 2017. This will help us process the award as quickly as possible. For questions about the contract, please contact Cyndy at 617/858-2711 or by email at Cyndy.Gaviglio@art.state.ma.us.

Please see Attachment A of the Contract Package for reporting requirements and deadlines specific to your organization. For questions about the FY17 CIP grant, or about future funding through the program, please contact Sara Glidden, Program Manager, at 617/858-2710 or by email at Sara.Glidden@art.state.ma.us.

We are delighted to be able to support your organization, and to consider you part of our "Portfolio". Thank you for your valuable contributions to the cultural vitality of Massachusetts.

Sincerely,

Nina Fialkow
Chair

Anita Walker
Executive Director

Enclosures



cc: Molly Fogarty, Director, Springfield City Library



City Council

ADOPTED

Meeting: 10/03/16 07:00 PM
Initiator: Jennifer Whisher
Sponsors: Mayor Domenic J. Sarno
DOC ID: 3658

16

Executive Office for Administration and Finance (EOAF) Grant - No Match - \$34,275 (Mayor Sarno)

WHEREAS, the Office of Information Technology ("Department") has been awarded an Executive Office for Administration and Finance (EOAF) Grant of \$34,275 from the Department of Revenue Senior Deputy Commissioner for Local Services on behalf of the Secretary of the Executive Office for Administration and Finance (EOAF); and

WHEREAS, the grant will be used for consulting services to conduct an assessment and make recommendations on the City of Springfield's datacenter/systems discovery, security/network infrastructure discovery, as well as fiber/copper connectivity mapping; and

WHEREAS, the Department has accepted the grant and requests authorization from the City Council and the Mayor to expend the grant funds listed below for the purposes of such grants; and

WHEREAS, the Chief Administrative and Financial Officer, after an evaluation of all pertinent financial information reasonably available, has certified that the City's financial resources and revenues are and will continue to be adequate to support the proposed expenditures and obligations involved in the City Council Order authorizing the expenditure of the grant funds listed herein, subject to the approval of the Mayor, without a detrimental impact on the continuous provision of the existing level of municipal services, in accordance with Section 2(f) of Chapter 656 of the Acts of 1989, as added by Section 1 of Chapter 468 of the Acts of 2008.

NOW THEREFORE BE IT ORDERED, acting pursuant to Mass. Gen. Laws Ch. 44, Sec. 53A, that the City Council approves the expenditure by the Department of the grant funds listed below for the purposes of such grant, subject to the approval of the Mayor, and the grant funds received shall be deposited with the City Treasurer and held as a separate account and may be expended for the purposes of the grant without further appropriation:

EOAF Grant - No Match - \$34,275

RESULT: PASSED BY VOICE VOTE

COPY

COMMONWEALTH OF MASSACHUSETTS ~ STANDARD CONTRACT FORM



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This form is jointly issued and published by the Executive Office for Administration and Finance (ANF), the Office of the Comptroller (CTR) and the Operational Services Division (OSD) as the default contract for all Commonwealth Departments when another form is not prescribed by regulation or policy. Any changes to the official printed language of this form shall be void. Additional non-conflicting terms may be added by Attachment. Contractors may not require any additional agreements, engagement letters, contract forms or other additional terms as part of this Contract without prior Department approval. Click on hyperlinks for definitions, instructions and legal requirements that are incorporated by reference into this Contract. An electronic copy of this form is available at www.mass.gov/osc under Guidance For Vendors - Forms or www.mass.gov/osd under OSD Forms.

CONTRACTOR LEGAL NAME: City of Springfield (and d/b/a):		COMMONWEALTH DEPARTMENT NAME: Executive Office for Administration and Finance MMARS Department Code: ANF	
Legal Address: (W-9, W-4,T&C): City Hall, 36 Court Street, Springfield, MA 01103		Business Mailing Address:	
Contract Manager: Timothy J. Plante, CAFO		Billing Address (if different):	
E-Mail: tplante@springfieldcityhall.com		Contract Manager: Pam Kocher	
Phone: (413) 787-6215	Fax:	E-Mail: kocherp@dor.state.ma.us	
Contractor Vendor Code: VC6000192140		Phone: 617-626-2345	Fax:
Vendor Code Address ID (e.g. "AD001"): AD001. (Note: The Address ID must be set up for EFT payments.)		MMARS Doc ID(s):	
		RFR/Procurement or Other ID Number:	
X NEW CONTRACT PROCUREMENT OR EXCEPTION TYPE: (Check one option only) ☐ Statewide Contract (OSD or an OSD-designated Department) ☐ Collective Purchase (Attach OSD approval, scope, budget) ☒ Department Procurement (Includes State or Federal grants 815 CMR 2.00) (Attach RFR and Response or other procurement supporting documentation) ☐ Emergency Contract (Attach justification for emergency, scope, budget) ☐ Contract Employee (Attach Employment Status Form, scope, budget) ☐ Legislative/Legal or Other: (Attach authorizing language/justification, scope and budget)		CONTRACT AMENDMENT Enter Current Contract End Date <u>Prior</u> to Amendment: _____, 20____. Enter Amendment Amount: \$ _____. (or "no change") AMENDMENT TYPE: (Check one option only. Attach details of Amendment changes.) ☐ Amendment to Scope or Budget (Attach updated scope and budget) ☐ Interim Contract (Attach justification for Interim Contract and updated scope/budget) ☐ Contract Employee (Attach any updates to scope or budget) ☐ Legislative/Legal or Other: (Attach authorizing language/justification and updated scope and budget)	
The following COMMONWEALTH TERMS AND CONDITIONS (T&C) has been executed, filed with CTR and is incorporated by reference into this Contract. ☒ Commonwealth Terms and Conditions ☐ Commonwealth Terms and Conditions For Human and Social Services			
COMPENSATION: (Check ONE option): The Department certifies that payments for authorized performance accepted in accordance with the terms of this Contract will be supported in the state accounting system by sufficient appropriations or other non-appropriated funds, subject to intercept for Commonwealth owed debts under 815 CMR 9.00. ☐ Rate Contract (No Maximum Obligation. Attach details of all rates, units, calculations, conditions or terms and any changes if rates or terms are being amended.) ☒ Maximum Obligation Contract Enter Total Maximum Obligation for total duration of this Contract (or <i>new</i> Total if Contract is being amended). \$ <u>34,275</u> .			
PROMPT PAYMENT DISCOUNTS (PPD): Commonwealth payments are issued through <u>EFT</u> 45 days from invoice receipt. Contractors requesting accelerated payments must identify a PPD as follows: Payment issued within 10 days ____% PPD; Payment issued within 15 days ____% PPD; Payment issued within 20 days ____% PPD; Payment issued within 30 days ____% PPD. If PPD percentages are left blank, identify reason: ☒ agree to standard 45 day cycle ____ statutory/legal or Ready Payments (G.L. c. 29, § 23A); ____ only initial payment (subsequent payments scheduled to support standard EFT 45 day payment cycle. See Prompt Pay Discounts Policy.)			
BRIEF DESCRIPTION OF CONTRACT PERFORMANCE or REASON FOR AMENDMENT: (Enter the Contract title, purpose, fiscal year(s) and a detailed description of the scope of performance or what is being amended for a Contract Amendment. Attach all supporting documentation and justifications.) Community Compact Grant: This award is being made through the Community Compact Grant Program, authorized by Chapter 46 of the Acts of 2015, Section 2, Item 1599-0026, to the City of Springfield for a business continuity initiative.			
ANTICIPATED START DATE: (Complete ONE option only) The Department and Contractor certify for this Contract, or Contract Amendment, that Contract obligations: ☒ 1. may be incurred as of the <u>Effective Date</u> (latest signature date below) and <u>no</u> obligations have been incurred <u>prior</u> to the <u>Effective Date</u> . ☐ 2. may be incurred as of _____, 20____, a date <u>LATER</u> than the <u>Effective Date</u> below and <u>no</u> obligations have been incurred <u>prior</u> to the <u>Effective Date</u> . ☐ 3. were incurred as of _____, 20____, a date <u>PRIOR</u> to the <u>Effective Date</u> below, and the parties agree that payments for any obligations incurred prior to the <u>Effective Date</u> are authorized to be made either as settlement payments or as authorized reimbursement payments, and that the details and circumstances of all obligations under this Contract are attached and incorporated into this Contract. Acceptance of payments forever releases the Commonwealth from further claims related to these obligations.			
CONTRACT END DATE: Contract performance shall terminate as of <u>June 30, 2017</u> , with no new obligations being incurred after this date unless the Contract is properly amended, provided that the terms of this Contract and performance expectations and obligations shall survive its termination for the purpose of resolving any claim or dispute, for completing any negotiated terms and warranties, to allow any close out or transition performance, reporting, invoicing or final payments, or during any lapse between amendments.			
CERTIFICATIONS: Notwithstanding verbal or other representations by the parties, the "Effective Date" of this Contract or Amendment shall be the latest date that this Contract or Amendment has been executed by an authorized signatory of the Contractor, the Department, or a later Contract or Amendment Start Date specified above, subject to any required approvals. The Contractor makes all certifications required under the attached <u>Contractor Certifications</u> (incorporated by reference if not attached hereto) under the pains and penalties of perjury, agrees to provide any required documentation upon request to support compliance, and agrees that all terms governing performance of this Contract and doing business in Massachusetts are attached or incorporated by reference herein according to the following hierarchy of document precedence, the applicable <u>Commonwealth Terms and Conditions</u> , this Standard Contract Form including the <u>Instructions and Contractor Certifications</u> , the Request for Response (RFR) or other solicitation, the Contractor's Response, and additional negotiated terms, provided that additional negotiated terms will take precedence over the relevant terms in the RFR and the Contractor's Response only if made using the process outlined in <u>801 CMR 21.07</u> , incorporated herein, provided that any amended RFR or Response terms result in best value, lower costs, or a more cost effective Contract.			
AUTHORIZING SIGNATURE FOR THE CONTRACTOR: X: <u>[Signature]</u> Date: <u>8/25/16</u> (Signature and Date Must Be Handwritten At Time of Signature) Print Name: <u>Timothy J. Plante</u> Print Title: <u>Chief Administrative and Financial Officer</u>		AUTHORIZING SIGNATURE FOR THE COMMONWEALTH: X: <u>[Signature]</u> Date: <u>8/9/16</u> (Signature and Date Must Be Handwritten At Time of Signature) Print Name: <u>Sean Cronin</u> Print Title: <u>DOR Senior Deputy Commissioner for Local Services</u>	

Attachment: IT - EOAF GRANT - Contract (3658 - EOAF Grant - No Match - \$34,275)



COMMONWEALTH OF MASSACHUSETTS ~ STANDARD CONTRACT FORM

INSTRUCTIONS AND CONTRACTOR CERTIFICATIONS

The following instructions and terms are incorporated by reference and apply to this Standard Contract Form. Text that appears underlined indicates a "hyperlink" to an Internet or bookmarked site and are unofficial versions of these documents and Departments and Contractors should consult with their legal counsel to ensure compliance with all legal requirements. Using the Web Toolbar will make navigation between the form and the hyperlinks easier. Please note that not all applicable laws have been cited.

CONTRACTOR LEGAL NAME (AND D/B/A): Enter the Full Legal Name of the Contractor's business as it appears on the Contractor's W-9 or W-4 Form (Contract Employees only) and the applicable Commonwealth Terms and Conditions. If Contractor also has a "doing business as" (d/b/a) name, BOTH the legal name and the "d/b/a" name must appear in this section.

Contractor Legal Address: Enter the Legal Address of the Contractor as it appears on the Contractor's W-9 or W-4 Form (Contract Employees only) and the applicable Commonwealth Terms and Conditions, which must match the legal address on the 10991 table in MMARS (or the Legal Address in HR/CMS for Contract Employee).

Contractor Contract Manager: Enter the authorized Contract Manager who will be responsible for managing the Contract. The Contract Manager should be an Authorized Signatory or, at a minimum, a person designated by the Contractor to represent the Contractor, receive legal notices and negotiate ongoing Contract issues. The Contract Manager is considered "Key Personnel" and may not be changed without the prior written approval of the Department. If the Contract is posted on COMMBUYS, the name of the Contract Manager must be included in the Contract on COMMBUYS.

Contractor E-Mail Address/Phone/Fax: Enter the electronic mail (e-mail) address, phone and fax number of the Contractor Contract Manager. This information must be kept current by the Contractor to ensure that the Department can contact the Contractor and provide any required legal notices. Notice received by the Contract Manager (with confirmation of actual receipt) through the listed address, fax number(s) or electronic mail address will meet any written legal notice requirements.

Contractor Vendor Code: The Department must enter the MMARS Vendor Code assigned by the Commonwealth. If a Vendor Code has not yet been assigned, leave this space blank and the Department will complete this section when a Vendor Code has been assigned. The Department is responsible under the Vendor File and W-9s Policy for verifying with authorized signatories of the Contractor, as part of contract execution, that the legal name, address and Federal Tax Identification Number (TIN) in the Contract documents match the state accounting system.

Vendor Code Address ID: (e.g., "AD001") The Department must enter the MMARS Vendor Code Address ID identifying the payment remittance address for Contract payments, which MUST be set up for EFT payments PRIOR to the first payment under the Contract in accordance with the Bill Paying and Vendor File and W-9 policies.

COMMONWEALTH DEPARTMENT NAME: Enter the full Department name with the authority to obligate funds encumbered for the Contract.

Commonwealth MMARS Alpha Department Code: Enter the three (3) letter MMARS Code assigned to this Commonwealth Department in the state accounting system.

Department Business Mailing Address: Enter the address where all formal correspondence to the Department must be sent. Unless otherwise specified in the Contract, legal notice sent or received by the Department's Contract Manager (with confirmation of actual receipt) through the listed address, fax number(s) or electronic mail address for the Contract Manager will meet any requirements for legal notice.

Department Billing Address: Enter the Billing Address or email address if invoices must be sent to a different location. Billing or confirmation of delivery of performance issues should be resolved through the listed Contract Managers.

Department Contract Manager: Identify the authorized Contract Manager who will be responsible for managing the Contract, who should be an authorized signatory or an employee designated by the Department to represent the Department to receive legal notices and negotiate ongoing Contract issues.

Department E-Mail Address/Phone/Fax: Enter the electronic mail (e-mail) address, phone and fax number of the Department Contract Manager. Unless otherwise specified in the Contract, legal notice sent or received by the Contract Manager (with confirmation of actual receipt) through the listed address, fax number(s) or electronic mail address will meet any requirements for written notice under the Contract.

MMARS Document ID(s): Enter the MMARS 20 character encumbrance transaction number associated with this Contract which must remain the same for the life of the Contract. If multiple numbers exist for this Contract, identify all Doc Ids.

RFR/Procurement or Other ID Number or Name: Enter the Request for Response (RFR) or other Procurement Reference number, Contract ID Number or other reference/tracking number for this Contract or Amendment and will be entered into the Board Award Field in the MMARS encumbrance transaction for this Contract.

NEW CONTRACTS (left side of Form):

Complete this section ONLY if this Contract is brand new. (Complete the **CONTRACT AMENDMENT** section for any material changes to an existing or an expired Contract, and for exercising options to renew or annual contracts under a multi-year procurement or grant program.)

PROCUREMENT OR EXCEPTION TYPE: Check the appropriate type of procurement or exception for this Contract. Only one option can be selected. See State Finance Law and General Requirements, Acquisition Policy and Fixed Assets, the Commodities and Services Policy and the Procurement Information Center (Department Contract Guidance) for details.

Statewide Contract (OSD or an OSD-designated Department). Check this option for a Statewide Contract under OSD, or by an OSD-designated Department.

Collective Purchase approved by OSD. Check this option for Contracts approved by OSD for collective purchases through federal, state, local government or other entities.

Department Contract Procurement. Check this option for a Department procurement including state grants and federal sub-grants under 815 CMR 2.00 and State Grants and Federal Subgrants Policy, Departmental Master Agreements (MA). If multi-Department user Contract, identify multi-Department use is allowable in Brief Description.

Emergency Contract. Check this option when the Department has determined that an unforeseen crisis or incident has arisen which requires or mandates immediate purchases to avoid substantial harm to the functioning of government or the provision of necessary or mandated services or whenever the health, welfare or safety of clients or other persons or serious damage to property is threatened.

Contract Employee. Check this option when the Department requires the performance of an Individual Contractor, and when the planned Contract performance with an Individual has been classified using the Employment Status Form (prior to the Contractor's selection) as work of a Contract Employee and not that of an Independent Contractor.

Legislative/Legal or Other. Check this option when legislation, an existing legal obligation, prohibition or other circumstance exempts or prohibits a Contract from being competitively procured, or identify any other procurement exception not already listed. Legislative "earmarks" exempt the Contract solely from procurement requirements, and all other Contract and state finance laws and policies apply. Supporting documentation must be attached to explain and justify the exemption.

CONTRACT AMENDMENT (Right Side of Form)

Complete this section for any Contract being renewed, amended or to continue a lapsed Contract. All Contracts with available options to renew must be amended referencing the original procurement and Contract doc ids, since all continuing contracts must be maintained in the same Contract file (even if the underlying appropriation changes each fiscal year.) "See Amendments, Suspensions, and Termination Policy."

Enter Current Contract End Date: Enter the termination date of the Current Contract being amended, even if this date has already passed. (Note: Current Start Date is not requested since this date does not change and is already recorded in MMARS.)

Enter Amendment Amount: Enter the amount of the Amendment increase or decrease to a Maximum Obligation Contract. Enter "no change" for Rate Contracts or if no change.

AMENDMENT TYPE: Identify the type of Amendment being done. Documentation supporting the updates to performance and budget must be attached. **Amendment to Scope or Budget.** Check this option when renewing a Contract or executing any Amendment ("material change" in Contract terms) even if the Contract has lapsed. The parties may negotiate a change in any element of Contract performance or cost identified in the RFR or the Contractor's response which results in lower costs, or a more cost-effective or better value performance than was presented in the original selected response, provided the negotiation results in a better value within the scope of the RFR than what was proposed by the Contractor in the original selected response. Any "material" change in the Contract terms must be memorialized in a formal Amendment even if a corresponding MMARS transaction is not needed to support the change. Additional negotiated terms will take precedence over the relevant terms in the RFR and the Contractor's Response only if made using the process outlined in 801 CMR 21.07, incorporated herein, provided that any amended RFR or Response terms result in best value, lower costs, or a more cost effective Contract.

Interim Contracts. Check this option for an Interim Contract to prevent a lapse of Contract performance whenever an existing Contract is being re-procured but the new procurement has not been completed, to bridge the gap during implementation between an expiring and a new procurement, or to contract with an interim Contractor when a current Contractor is unable to complete full performance under a Contract.

Contract Employee. Check this option when the Department requires a renewal or other amendment to the performance of a Contract Employee.

Legislative/Legal or Other. Check this option when legislation, an existing legal obligation, prohibition or other circumstance exempts or prohibits a Contract from being competitively procured, or identify any other procurement exception not already listed. Legislative "earmarks" exempt the Contract solely from procurement requirements, and all other Contract and state finance laws and policies apply. Attach supporting documentation to explain and justify the exemption and whether Contractor selection has been publicly



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posted.

COMMONWEALTH TERMS AND CONDITIONS

Identify which Commonwealth Terms and Conditions the Contractor has executed and is incorporated by reference into this Contract. This Form is signed only once and recorded on the Vendor Customer File (VCUST). See Vendor File and W-9s Policy.

COMPENSATION

Identify if the Contract is a Rate Contract (with no stated Maximum Obligation) or a Maximum Obligation Contract (with a stated Maximum Obligation) and identify the Maximum Obligation. If the Contract is being amended, enter the new Maximum Obligation based upon the increase or decreasing Amendment. The Total Maximum Obligation must reflect the total funding for the dates of service under the contract, including the Amendment amount if the Contract is being amended. The Maximum Obligation must match the MMARS encumbrance. Funding and allotments must be verified as available and encumbered prior to incurring obligations. If a Contract includes both a Maximum Obligation component and Rate Contract component, check off both, specific Maximum Obligation amounts or amended amounts and Attachments must clearly outline the Contract breakdown to match the encumbrance.

PAYMENTS AND PROMPT PAY DISCOUNTS

Payments are processed within a 45 day payment cycle through EFT in accordance with the Commonwealth Bill Paying Policy for investment and cash flow purposes. Departments may NOT negotiate accelerated payments and Payees are NOT entitled to accelerated payments UNLESS a prompt payment discount (PPD) is provided to support the Commonwealth's loss of investment earnings for this earlier payment, or unless a payments is legally mandated to be made in less than 45 days (e.g., construction contracts, Ready Payments under G.L. c. 29, s. 23A). See Prompt Pay Discounts Policy. PPD are identified as a percentage discount which will be automatically deducted when an accelerated payment is made. Reduced contracts rates may not be negotiated to replace a PPD. If PPD fields are left blank please identify that the Contractor agrees to the standard 45 day cycle; a statutory/legal exemption such as Ready Payments (G.L. c. 29, s. 23A); or only an initial accelerated payment for reimbursements or start up costs for a grant, with subsequent payments scheduled to support standard EFT 45 day payment cycle. Financial hardship is not a sufficient justification to accelerate cash flow for all payments under a Contract. Initial grant or contract payments may be accelerated for the first invoice or initial grant installment, but subsequent periodic installments or invoice payments should be scheduled to support the Payee cash flow needs and the standard 45 day EFT payment cycle in accordance with the Bill Paying Policy. Any accelerated payment that does not provide for a PPD must have a legal justification in Contract file for audit purposes explaining why accelerated payments were allowable without a PPD.

BRIEF DESCRIPTION OF CONTRACT PERFORMANCE

Enter a brief description of the Contract performance, project name and/or other identifying information for the Contract to specifically identify the Contract performance, match the Contract with attachments, determine the appropriate expenditure code (as listed in the Expenditure Classification Handbook) or to identify or clarify important information related to the Contract such as the Fiscal Year(s) of performance (ex. "FY2012" or "FY2012-14"). Identify settlements or other exceptions and attach more detailed justification and supporting documents. Enter "Multi-Department Use" if other Departments can access procurement. For Amendments, identify the purpose and what items are being amended. Merely stating "see attached" or referencing attachments without a narrative description of performance is insufficient.

ANTICIPATED START DATE

The Department and Contractor must certify WHEN obligations under this Contract/Amendment may be incurred. Option 1 is the default option when performance may begin as of the Effective Date (latest signature date and any required approvals). If the parties want a new Contract or renewal to begin as of the upcoming fiscal year then list the fiscal year(s) (ex. "FY2012" or "FY2012-14") in the Brief Description section. Performance starts and encumbrances reflect the default Effective Date (if no FY is listed) or the later FY start date (if a FY is listed). Use Option 2 only when the Contract will be signed well in advance of the start date and identify a specific future start date. Do not use Option 2 for a fiscal year start unless it is certain that the Contract will be signed prior to fiscal year. Option 3 is used in lieu of the Settlement and Release Form when the Contract/Amendment is signed late, and obligations have already been incurred by the Contractor prior to the Effective Date for which the Department has either requested, accepted or deemed legally eligible for reimbursement, and the Contract includes supporting documents justifying the performance or proof of eligibility, and approximate costs. Any obligations incurred outside the scope of the Effective Date under any Option listed, even if the incorrect Option is selected, shall be automatically deemed a settlement included under the terms of the Contract and upon payment to the Contractor will release the Commonwealth from further obligations for the identified performance. All settlement payments require justification and must be under same encumbrance and object codes as the Contract payments. Performance dates are subject to G.L. c.4, s.9.

CONTRACT END DATE

The Department must enter the date that Contract performance will terminate. If the Contract is being amended and the Contract End Date is not changing, this date must be re-entered again here. A Contract must be signed for at least the initial duration but not longer than the period of procurement listed in the RFR, or other solicitation document (if applicable). No new performance is allowable beyond the end date without an amendment, but the Department may allow a Contractor to complete minimal close out performance obligations if substantial performance has been made prior to the termination date of the Contract and prior to the end of the fiscal year in which payments are appropriated, provided that any close out performance is subject to appropriation and funding limits under state finance law, and CTR may adjust encumbrances and payments in the state accounting system to enable final close out payments. Performance dates are subject to G.L. c.4, s.9.

CERTIFICATIONS AND EXECUTION

See Department Head Signature Authorization Policy and the Contractor Authorized Signatory Listing for policies on Contractor and Department signatures.

Authorizing Signature for Contractor/Date: The Authorized Contractor Signatory must (in their own handwriting and in ink) sign AND enter the date the Contract is signed. See section above under "Anticipated Contract Start Date". Acceptance of payment by the Contractor shall waive any right of the Contractor to claim the Contract/Amendment is not valid and the Contractor may not void the Contract. Rubber stamps, typed or other images are not acceptable. Proof of Contractor signature authorization on a Contractor Authorized Signatory Listing may be required by the Department if not already on file.

Contractor Name /Title: The Contractor Authorized Signatory's name and title must appear legibly as it appears on the Contractor Authorized Signatory Listing.

Authorizing Signature For Commonwealth/Date: The Authorized Department Signatory must (in their own handwriting and in ink) sign AND enter the date the Contract is signed. See section above under "Anticipated Start Date". Rubber stamps, typed or other images are not accepted. The Authorized Signatory must be an employee within the Department legally responsible for the Contract. See Department Head Signature Authorization. The Department must have the legislative funding appropriated for all the costs of this Contract or funding allocated under an approved Interdepartmental Service Agreement (ISA). A Department may not contract for performance to be delivered to or by another state department without specific legislative authorization (unless this Contract is a Statewide Contract). For Contracts requiring Secretariat signoff, evidence of Secretariat signoff must be included in the Contract file.

Department Name /Title: Enter the Authorized Signatory's name and title legibly.

CONTRACTOR CERTIFICATIONS AND LEGAL REFERENCES

Notwithstanding verbal or other representations by the parties, the "Effective Date" of this Contract or Amendment shall be the latest date that this Contract or Amendment has been executed by an authorized signatory of the Contractor, the Department, or a later Contract or Amendment Start Date specified, subject to any required approvals. The Contractor makes all certifications required under this Contract under the pains and penalties of perjury, and agrees to provide any required documentation upon request to support compliance, and agrees that all terms governing performance of this Contract and doing business in Massachusetts are attached or incorporated by reference herein:

Commonwealth and Contractor Ownership Rights. The Contractor certifies and agrees that the Commonwealth is entitled to ownership and possession of all "deliverables" purchased or developed with Contract funds. A Department may not relinquish Commonwealth rights to deliverables nor may Contractors sell products developed with Commonwealth resources without just compensation. The Contract should detail all Commonwealth deliverables and ownership rights and any Contractor proprietary rights.

Qualifications. The Contractor certifies it is qualified and shall at all times remain qualified to perform this Contract; that performance shall be timely and meet or exceed industry standards for the performance required, including obtaining requisite licenses, registrations, permits, resources for performance, and sufficient professional, liability; and other appropriate insurance to cover the performance. If the Contractor is a business, the Contractor certifies that it is listed under the Secretary of State's website as licensed to do business in Massachusetts, as required by law.

Business Ethics and Fraud, Waste and Abuse Prevention. The Contractor certifies that performance under this Contract, in addition to meeting the terms of the Contract, will be made using ethical business standards and good stewardship of taxpayer and other public funding and resources to prevent fraud, waste and abuse.

Collusion. The Contractor certifies that this Contract has been offered in good faith and without collusion, fraud or unfair trade practices with any other person, that any actions to avoid or frustrate fair and open competition are prohibited by law, and shall be grounds for rejection or disqualification of a Response or termination of this Contract.

Public Records and Access The Contractor shall provide full access to records related to performance and compliance to the Department and officials listed under Executive Order 195 and G.L. c. 11, s.12 seven (7) years beginning on the first day after the final payment



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under this Contract or such longer period necessary for the resolution of any litigation, claim, negotiation, audit or other inquiry involving this Contract. Access to view Contractor records related to any breach or allegation of fraud, waste and/or abuse may not be denied and Contractor can not claim confidentiality or trade secret protections solely for viewing but not retaining documents. Routine Contract performance compliance reports or documents related to any alleged breach or allegation of non-compliance, fraud, waste, abuse or collusion may be provided electronically and shall be provided at Contractor's own expense. Reasonable costs for copies of non-routine Contract related records shall not exceed the rates for public records under 950 C.M.R. 32.00.

Debarment. The Contractor certifies that neither it nor any of its subcontractors are currently debarred or suspended by the federal or state government under any law or regulation including, Executive Order 147; G.L. c. 29, s. 29F; G.L. c. 30, § 39R; G.L. c. 149, § 27C; G.L. c. 149, § 44C; G.L. c. 149, § 148B and G.L. c. 152, s. 25C.

Applicable Laws. The Contractor shall comply with all applicable state laws and regulations including but not limited to the applicable Massachusetts General Laws; the Official Code of Massachusetts Regulations; Code of Massachusetts Regulations (unofficial); 801 CMR 21.00 (Procurement of Commodity and Service Procurements, Including Human and Social Services); 815 CMR 2.00 (Grants and Subsidies); 808 CMR 1.00 (Compliance, Reporting and Auditing for Human And Social Services); AICPA Standards; confidentiality of Department records under G.L. c. 66A; and the Massachusetts Constitution Article XVIII if applicable.

Invoices. The Contractor must submit invoices in accordance with the terms of the Contract and the Commonwealth Bill Paying Policy. Contractors must be able to reconcile and properly attribute concurrent payments from multiple Departments. Final invoices in any fiscal year must be submitted no later than August 15th for performance made and received (goods delivered, services completed) prior to June 30th, in order to make payment for that performance prior to the close of the fiscal year to prevent reversion of appropriated funds. Failure to submit timely invoices by August 15th or other date listed in the Contract shall authorize the Department to issue an estimated payment based upon the Department's determination of performance delivered and accepted. The Contractor's acceptance of this estimated payment releases the Commonwealth from further claims for these invoices. If budgetary funds revert due to the Contractor's failure to submit timely final invoices, or for disputing an estimated payment, the Department may deduct a penalty up to 10% from any final payment in the next fiscal year for failure to submit timely invoices.

Payments Subject To Appropriation. Pursuant to G.L. c. 29 § 26, § 27 and § 29, Departments are required to expend funds only for the purposes set forth by the Legislature and within the funding limits established through appropriation, allotment and subsidiary, including mandated allotment reductions triggered by G.L. c. 29, § 9C. A Department cannot authorize or accept performance in excess of an existing appropriation and allotment, or sufficient non-appropriated available funds. Any oral or written representations, commitments, or assurances made by the Department or any other Commonwealth representative are not binding. The Commonwealth has no legal obligation to compensate a Contractor for performance that is not requested and is intentionally delivered by a Contractor outside the scope of a Contract. Contractors should verify funding prior to beginning performance.

Intercept. Contractors may be registered as Customers in the Vendor file if the Contractor owes a Commonwealth debt. Unresolved and undisputed debts, and overpayments of Contract payments that are not reimbursed timely shall be subject to intercept pursuant to G.L. c. 7A, s. 3 and 815 CMR 9.00. Contract overpayments will be subject to immediate intercept or payment offset. The Contractor may not penalize any state Department or assess late fees, cancel a Contract or other services if amounts are intercepted or offset due to recoupment of an overpayment, outstanding taxes, child support, other overdue debts or Contract overpayments.

Tax Law Compliance. The Contractor certifies under the pains and penalties of perjury tax compliance with Federal tax laws; state tax laws including but not limited to G.L. c. 62C, G.L. c. 62C, s. 49A; compliance with all state tax laws, reporting of employees and contractors, withholding and remitting of tax withholdings and child support and is in good standing with respect to all state taxes and returns due; reporting of employees and contractors under G.L. c. 62E, withholding and remitting child support including G.L. c. 119A, s. 12; TIR 05-11; New Independent Contractor Provisions and applicable TIRs.

Bankruptcy, Judgments, Potential Structural Changes, Pending Legal Matters and Conflicts. The Contractor certifies it has not been in bankruptcy and/or receivership within the last three calendar years, and the Contractor certifies that it will immediately notify the Department in writing at least 45 days prior to filing for bankruptcy and/or receivership, any potential structural change in its organization, or if there is any risk to the solvency of the Contractor that may impact the Contractor's ability to timely fulfill the terms of this Contract or Amendment. The Contractor certifies that at any time during the period of the Contract the Contractor is required to affirmatively disclose in writing to the Department Contract Manager the details of any judgment, criminal conviction, investigation or litigation pending against the Contractor or any of its officers, directors, employees, agents, or subcontractors, including any potential conflicts of interest of which the Contractor has knowledge, or learns of during the Contract term. Law firms or Attorneys providing legal

services are required to identify any potential conflict with representation of any Department client in accordance with Massachusetts Board of Bar Overseers (BBO) rules.

Federal Anti-Lobbying and Other Federal Requirements. If receiving federal funds, the Contractor certifies compliance with federal anti-lobbying requirements including 31 USC 1352; other federal requirements; Executive Order 11246; Air Pollution Act; Federal Water Pollution Control Act and Federal Employment Laws.

Protection of Personal Data and Information. The Contractor certifies that all steps will be taken to ensure the security and confidentiality of all Commonwealth data for which the Contractor becomes a holder, either as part of performance or inadvertently during performance, with special attention to restricting access, use and disbursement of personal data and information under G.L. c. 93H and c. 66A and Executive Order 504. The Contractor is required to comply with G.L. c. 93I for the proper disposal of all paper and electronic media, backups or systems containing personal data and information, provided further that the Contractor is required to ensure that any personal data or information transmitted electronically or through a portable device be properly encrypted using (at a minimum) Information Technology Division (ITD) Protection of Sensitive Information, provided further that any Contractor having access to credit card or banking information of Commonwealth customers certifies that the Contractor is PCI compliant in accordance with the Payment Card Industry Council Standards and shall provide confirmation compliance during the Contract, provide further that the Contractor shall immediately notify the Department in the event of any security breach including the unauthorized access, disbursement, use or disposal of personal data or information, and in the event of a security breach, the Contractor shall cooperate fully with the Commonwealth and provide access to any information necessary for the Commonwealth to respond to the security breach and shall be fully responsible for any damages associated with the Contractor's breach including but not limited to G.L. c. 214, s. 3B.

Corporate and Business Filings and Reports. The Contractor certifies compliance with any certification, filing, reporting and service of process requirements of the Secretary of the Commonwealth, the Office of the Attorney General or other Departments as related to its conduct of business in the Commonwealth; and with its incorporating state (or foreign entity).

Employer Requirements. Contractors that are employers certify compliance with applicable state and federal employment laws or regulations, including but not limited to G.L. c. 5, s. 1 (Prevailing Wages for Printing and Distribution of Public Documents); G.L. c. 7, s. 22 (Prevailing Wages for Contracts for Meat Products and Clothing and Apparel); minimum wages and prevailing wage programs and payments; unemployment insurance and contributions; workers' compensation and insurance, child labor laws, AGO fair labor practices; G.L. c. 149 (Labor and Industries); G.L. c. 150A (Labor Relations); G.L. c. 151 and 455 CMR 2.00 (Minimum Fair Wages); G.L. c. 151A (Employment and Training); G.L. c. 151B (Unlawful Discrimination); G.L. c. 151E (Business Discrimination); G.L. c. 152 (Workers' Compensation); G.L. c. 153 (Liability for Injuries); 29 USC c. 8 (Federal Fair Labor Standards); 29 USC c. 28 and the Federal Family and Medical Leave Act.

Federal And State Laws And Regulations Prohibiting Discrimination including but not limited to the Federal Equal Employment Opportunity (EEO) Laws the Americans with Disabilities Act; 42 U.S.C. Sec. 12,101, et seq., the Rehabilitation Act; 29 USC c. 16 s. 794; 29 USC c. 16, s. 701; 29 USC c. 14, 623; the 42 USC c. 45; (Federal Fair Housing Act); G.L. c. 151B (Unlawful Discrimination); G.L. c. 151E (Business Discrimination); the Public Accommodations Law G.L. c. 272, s. 92A; G.L. c. 272, s. 98 and 98A, Massachusetts Constitution Article CXIV and G.L. c. 93, s. 103; 47 USC c. 5, sec. II, Part II, s. 255 (Telecommunication Act); Chapter 149, Section 105D, G.L. c. 151C, G.L. c. 272, Section 92A, Section 98 and Section 98A, and G.L. c. 111, Section 199A, and Massachusetts Disability-Based Non-Discrimination Standards For Executive Branch Entities, and related Standards and Guidance, authorized under Massachusetts Executive Order or any disability-based protection arising from state or federal law or precedent. See also MCAD and MCAD links and Resources.

Small Business Purchasing Program (SBPP). A Contractor may be eligible to participate in the SBPP, created pursuant to Executive Order 523, if qualified through the SBPP COMMBUYS subscription process at: www.commbuys.com and with acceptance of the terms of the SBPP participation agreement.

Limitation of Liability for Information Technology Contracts (and other Contracts as Authorized). The Information Technology Mandatory Specifications and the IT Acquisition Accessibility Contract Language are incorporated by reference into Information Technology Contracts. The following language will apply to Information Technology contracts in the U01, U02, U03, U04, U05, U06, U07, U08, U09, U10, U75, U98 object codes in the Expenditure Classification Handbook or other Contracts as approved by CTR or OSD. Pursuant to Section 11. Indemnification of the Commonwealth Terms and Conditions, the term "other damages" shall include, but shall not be limited to, the reasonable costs the Commonwealth incurs to repair, return, replace or seek cover (purchase of comparable substitute commodities and services) under a Contract. "Other damages" shall not include damages to the Commonwealth as a result of third party claims, provided, however, that the foregoing in no way limits the Commonwealth's right of recovery for personal injury or property damages or patent and copyright infringement under Section 11 nor the Commonwealth's ability to join the contractor as a third party defendant. Further, the term



COMMONWEALTH OF MASSACHUSETTS ~ STANDARD CONTRACT FORM

"other damages" shall not include, and in no event shall the contractor be liable for, damages for the Commonwealth's use of contractor provided products or services, loss of Commonwealth records, or data (or other intangible property), loss of use of equipment, lost revenue, lost savings or lost profits of the Commonwealth. In no event shall "other damages" exceed the greater of \$100,000, or two times the value of the product or service (as defined in the Contract scope of work) that is the subject of the claim. Section 11 sets forth the contractor's entire liability under a Contract. Nothing in this section shall limit the Commonwealth's ability to negotiate higher limitations of liability in a particular Contract, provided that any such limitation must specifically reference Section 11 of the Commonwealth Terms and Conditions. In the event the limitation of liability conflicts with accounting standards which mandate that there can be no cap of damages, the limitation shall be considered waived for that audit engagement. These terms may be applied to other Contracts only with prior written confirmation from the Operational Services Division or the Office of the Comptroller. The terms in this Clarification may not be modified.

Northern Ireland Certification. Pursuant to G.L. c. 7 s. 22C for state agencies, state authorities, the House of Representatives or the state Senate, by signing this Contract the Contractor certifies that it does not employ ten or more employees in an office or other facility in Northern Ireland and if the Contractor employs ten or more employees in an office or other facility located in Northern Ireland the Contractor certifies that it does not discriminate in employment, compensation, or the terms, conditions and privileges of employment on account of religious or political belief; and it promotes religious tolerance within the work place, and the eradication of any manifestations of religious and other illegal discrimination; and the Contractor is not engaged in the manufacture, distribution or sale of firearms, munitions, including rubber or plastic bullets, tear gas, armored vehicles or military aircraft for use or deployment in any activity in Northern Ireland.

Pandemic, Disaster or Emergency Performance. In the event of a serious emergency, pandemic or disaster outside the control of the Department, the Department may negotiate emergency performance from the Contractor to address the immediate needs of the Commonwealth even if not contemplated under the original Contract or procurement. Payments are subject to appropriation and other payment terms.

Consultant Contractor Certifications (For Consultant Contracts "HH" and "NN" and "U05" object codes subject to G.L. Chapter 29, s. 29A). Contractors must make required disclosures as part of the RFR Response or using the Consultant Contractor Mandatory Submission Form.

Attorneys. Attorneys or firms providing legal services or representing Commonwealth Departments may be subject to G.L. c. 30, s. 65, and if providing litigation services must be approved by the Office of the Attorney General to appear on behalf of a Department, and shall have a continuing obligation to notify the Commonwealth of any conflicts of interest arising under the Contract.

Subcontractor Performance. The Contractor certifies full responsibility for Contract performance, including subcontractors, and that comparable Contract terms will be included in subcontracts, and that the Department will not be required to directly or indirectly manage subcontractors or have any payment obligations to subcontractors. .

EXECUTIVE ORDERS

For covered Executive state Departments, the Contractor certifies compliance with applicable Executive Orders (see also Massachusetts Executive Orders), including but not limited to the specific orders listed below. A breach during period of a Contract may be considered a material breach and subject Contractor to appropriate monetary or Contract sanctions.

Executive Order 481. Prohibiting the Use of Undocumented Workers on State Contracts. For all state agencies in the Executive Branch, including all executive offices, boards, commissions, agencies, Departments, divisions, councils, bureaus, and offices, now existing and hereafter established, by signing this Contract the Contractor certifies under the pains and penalties of perjury that they shall not knowingly use undocumented workers in connection with the performance of this Contract; that, pursuant to federal requirements, shall verify the immigration status of workers assigned to a Contract without engaging in unlawful discrimination; and shall not knowingly or recklessly alter, falsify, or accept altered or falsified documents from any such worker

Executive Order 130. Anti-Boycott. The Contractor warrants, represents and agrees that during the time this Contract is in effect, neither it nor any affiliated company, as hereafter defined, participates in or cooperates with an international boycott (See IRC s. 999(b)(3)-(4), and IRS Audit Guidelines Boycotts) or engages in conduct declared to be unlawful by G.L. c. 151E, s. 2. A breach in the warranty, representation, and agreement contained in this paragraph, without limiting such other rights as it may have, the Commonwealth shall be entitled to rescind this Contract. As used herein, an affiliated company shall be any business entity of which at least 51% of the ownership interests are directly or indirectly owned by the Contractor or by a person or persons or business entity or entities directly or indirectly owning at least 51% of the ownership interests of the Contractor, or which directly or indirectly owns at least 51% of the ownership interests of the Contractor.

Executive Order 346. Hiring of State Employees By State Contractors Contractor certifies compliance with both the conflict of interest law G.L. c. 268A specifically s. 5 (f) and this order; and includes limitations regarding the hiring of state employees by private companies contracting with the Commonwealth. A privatization contract shall be deemed

to include a specific prohibition against the hiring at any time during the term of Contract, and for any position in the Contractor's company, any state management employee who is, was, or will be involved in the preparation of the RFP, the negotiations leading to the awarding of the Contract, the decision to award the Contract, and/or the supervision or oversight of performance under the Contract.

Executive Order 444. Disclosure of Family Relationships With Other State Employees. Each person applying for employment (including Contract work) within the Executive Branch under the Governor must disclose in writing the names of all immediate family related to immediate family by marriage who serve as employees or elected officials of the Commonwealth. All disclosures made by applicants hired by the Executive Branch under the Governor shall be made available for public inspection to the extent permissible by law by the official with whom such disclosure has been filed.

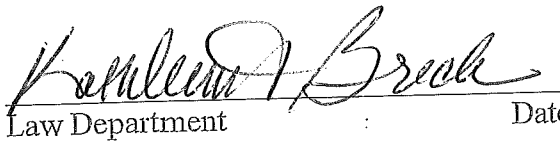
Executive Order 504. Regarding the Security and Confidentiality of Personal Information. For all Contracts involving the Contractor's access to personal information, as defined in G.L. c. 93H, and personal data, as defined in G.L. c. 66A, owned or controlled by Executive Department agencies, or access to agency systems containing such information or data (herein collectively "personal information"), Contractor certifies under the pains and penalties of perjury that the Contractor (1) has read Commonwealth of Massachusetts Executive Order 504 and agrees to protect any and all personal information; and (2) has reviewed all of the Commonwealth Information Technology Division's Security Policies. Notwithstanding any contractual provision to the contrary, in connection with the Contractor's performance under this Contract, for all state agencies in the Executive Department, including all executive offices, boards, commissions, agencies, departments, divisions, councils, bureaus, and offices, now existing and hereafter established, the Contractor shall: (1) obtain a copy, review, and comply with the contracting agency's Information Security Program (ISP) and any pertinent security guidelines, standards, and policies; (2) comply with all of the Commonwealth of Massachusetts Information Technology Division's "Security Policies" (3) communicate and enforce the contracting agency's ISP and such Security Policies against all employees (whether such employees are direct or contracted) and subcontractors; (4) implement and maintain any other reasonable appropriate security procedures and practices necessary to protect personal information to which the Contractor is given access by the contracting agency from the unauthorized access, destruction, use, modification, disclosure or loss; (5) be responsible for the full or partial breach of any of these terms by its employees (whether such employees are direct or contracted) or subcontractors during or after the term of this Contract, and any breach of these terms may be regarded as a material breach of this Contract; (6) in the event of any unauthorized access, destruction, use, modification, disclosure or loss of the personal information (collectively referred to as the "unauthorized use"); (a) immediately notify the contracting agency if the Contractor becomes aware of the unauthorized use; (b) provide full cooperation and access to information necessary for the contracting agency to determine the scope of the unauthorized use; and (c) provide full cooperation and access to information necessary for the contracting agency and the Contractor to fulfill any notification requirements. Breach of these terms may be regarded as a material breach of this Contract, such that the Commonwealth may exercise any and all contractual rights and remedies, including without limitation indemnification under Section 11 of the Commonwealth's Terms and Conditions, withholding of payments, Contract suspension, or termination. In addition, the Contractor may be subject to applicable statutory or regulatory penalties, including and without limitation, those imposed pursuant to G.L. c. 93H and under G.L. c. 214, § 3B for violations under M.G.L. c. 66A. **Executive Orders 523, 524 and 526.** Executive Order 526 (Order Regarding Non-Discrimination, Diversity, Equal Opportunity and Affirmative Action which supersedes Executive Order 478), Executive Order 524 (Establishing the Massachusetts Supplier Diversity Program which supersedes Executive Order 390), Executive Order 523 (Establishing the Massachusetts Small Business Purchasing Program.) All programs, activities, and services provided, performed, licensed, chartered, funded, regulated, or contracted for by the state shall be conducted without unlawful discrimination based on race, color, age, gender, ethnicity, sexual orientation, gender identity or expression, religion, creed, ancestry, national origin, disability, veteran's status (including Vietnam-era veterans), or background. The Contractor and any subcontractors may not engage in discriminatory employment practices; and the Contractor certifies compliance with applicable federal and state laws, rules, and regulations governing fair labor and employment practices; and the Contractor commits to purchase supplies and services from certified minority or women-owned businesses, small businesses, or businesses owned by socially or economically disadvantaged persons or persons with disabilities. These provisions shall be enforced through the contracting agency, OSD, and/or the Massachusetts Commission Against Discrimination. Any breach shall be regarded as a material breach of the contract that may subject the contractor to appropriate sanctions.

For the Sub-Grantee
CITY OF SPRINGFIELD, MA

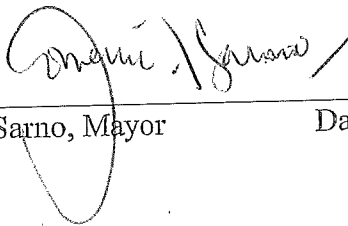
N/A Approved To Appropriation: *N/A*


Office of Comptroller Date *8/25/16*

Approved as to Form


Law Department Date *8/25/16*

APPROVED:


Domenic J. Sarno, Mayor Date *8/25/16*

GRANT AGREEMENT

This Grant Agreement (“Agreement”) is made by and between the Commonwealth of Massachusetts, acting by and through the Department of Revenue Senior Deputy Commissioner for Local Services on behalf of the Secretary of the Executive Office for Administration and Finance (EOAF) and the City of Springfield [“Grantee”] acting through its Mayor.

PRELIMINARY STATEMENT

The Grantee desires to obtain funding from EOAF in the amount not to exceed \$34,275 authorized under Chapter 46 of the Acts of 2015, Section 2, Item 1599-0026 [“Act”] for a business continuity initiative [“Project”].

EOAF agrees to make the funds [“EOAF Grant”] available to the Grantee for the Project, subject to the terms and conditions set forth in this Agreement and in compliance with all applicable state laws and regulations governing the disbursement and expenditure of state funds.

The Grantee shall exercise complete management and oversight responsibility of the Project and agrees that the Commonwealth’s provision of state funding under this Agreement shall not in any way be construed as assuming responsibility or liability for the completed Project by the Commonwealth.

SECTION 1. PROJECT SCOPE

1.1 The scope of the Project to be funded under the EOAF Grant will include:

- (1) IT assessment consisting of datacenter/systems discovery, security / network infrastructure discovery , and recommendations & documentation, and
- (2) Fiber/copper connectivity mapping assessment & documentation.

SECTION 2. DISBURSEMENT OF EOAF GRANT

2.1 Disbursement of the EOAF Grant under this Agreement shall be made pursuant to Chapter 46 of the Acts of 2015, Section 2, Item 1599-0026; and any other information EOAF may require.

Seventy-five percent of the grant award, or \$25,705, will be disbursed to the Grantee within 45 days of execution of the grant contract.

Twenty-five percent of the grant award, or \$8,570, will be disbursed to the Grantee within 45 days of receipt of Grantee report certifying project completion and submission of supporting documentation. Grantee report must be received by EOAF no later than June 1, 2017.

2.2 It is understood and agreed that the grant provided under this Agreement shall be used solely to pay for expenses associated with the Project. Expenses relating to project administration and management shall be assumed by the Grantee, including without limitation: (i) salaries and wages of Grantee staff; (ii) legal fees; (iii) travel, meal and entertainment expenses; (iv) overhead and supplies; (v) project costs incurred prior to the execution and subsequent to termination of this Agreement; and (vi) costs of any other service or activity not related to the Project.

2.3 The Grantee shall keep detailed records of all activities associated with the Project, including without limitation all disbursements made pursuant to this Agreement. EOAF shall have the right to examine all records kept by the Grantee related to the Project.

2.4 The Grantee shall be responsible for any cost overruns that occur during implementation of the Project.

2.5 The grant funds must be spent by June 30, 2017. Grantee will forfeit any remaining award unused after June 30, 2017. The Executive Office for Administration and Finance shall give due consideration to any extenuating circumstances presented in writing by the applicant and may waive this restriction at its discretion.

SECTION 3. REPORTING

3.1 Once the Project is completed, the Grantee shall furnish to EOAF, in addition to a report certifying project completion, the following documentation: **(i)** copies of all permits and approvals issued in connection with the Project, unless this information was previously supplied; **(ii)** any outstanding vendors' invoices, certified payment vouchers, cancelled checks or other documentation verifying actual expenditures in connection with the Project; **(iii)** documentation evidencing commitment of funds to the Project from sources other than EOAF, including documentation associated with the issuance of bonds or notes to finance the cost of the Project; **(iv)** a certificate of occupancy of the Project or portions of the Project as applicable by law; and **(v)** a statement from the Grantee certifying to the best of his or her knowledge that the Project was undertaken in conformance with all applicable laws, rules and regulations.

SECTION 4. COMPLIANCE WITH ALL APPLICABLE LAWS/REGULATIONS

4.1 The Grantee and its consultants and contractors shall comply with any and all federal, state and local laws, rules and regulations, orders or requirements that apply to the Project, including but not limited to: **(i)** Executive Order 478 relating to nondiscrimination, diversity, equal opportunity and affirmative action in hiring and employment practices; **(ii)** the State Prevailing Wage Law (MGL. Ch.149, Sections 26 to 27H); Title VI of the Civil Rights Acts of 1964, as amended; **(iii)** Environmental Impact Requirements (MGL. Ch.30, Sections 61 to 62I); and **(iv)** Historic Preservation Requirements (MGL. Ch.9, Sections 26 to 28) and applicable regulations.

4.2 This Agreement shall in no way relieve the Grantee from the full force and application of any laws, rules, regulations and orders or requirements.

SECTION 5. INTEREST OF MEMBERS OR EMPLOYEES OF THE GRANTEE

5.1 No officer, servant, agent, or employee of the Grantee has participated or will participate in any decision relating to the development and implementation of the Project that affects directly or indirectly his/her personal interest or the interest of any corporation, partnership or proprietorship with which her/she is directly or indirectly affiliated. Furthermore, no officer, servant, agent or employee of the Grantee shall have any interest directly or indirectly in any contract in connection with the Project or shall in any way violate M.G.L. Chapter 268A.

SECTION 6. AMENDMENTS

6.1 No amendment to this Agreement or any significant modification of the scope of the Project funded under this Agreement shall be made by the Grantee without the prior written approval of EOAF.

SECTION 7. SEVERABILITY OF PROVISIONS

7.1 If any provision of this Agreement is held invalid by any court of competent jurisdiction, the remaining provisions shall not be affected thereby, and all other parts of the Agreement shall remain in full force and effect.

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COMMONWEALTH TERMS AND CONDITIONS

This Commonwealth Terms and Conditions form is jointly issued by the Executive Office for Administration and Finance (ANF), the Office of the Comptroller (CTR) and the Operational Services Division (OSD) for use by all Commonwealth of Massachusetts ("State") Departments and Contractors. *Any changes or electronic alterations by either the Department or the Contractor to the official version of this form, as jointly published by ANF, CTR and OSD, shall be void.* Upon execution of these Commonwealth Terms and Conditions by the Contractor and filing as prescribed by the Office of the Comptroller, these Commonwealth Terms and Conditions will be incorporated by reference into any Contract for Commodities and Services executed by the Contractor and any State Department, in the absence of a superseding law or regulation requiring a different Contract form. Performance shall include services rendered, obligations due, costs incurred, commodities and deliverables provided and accepted by the Department, programs provided or other commitments authorized under a Contract. A deliverable shall include any tangible product to be delivered as an element of performance under a Contract. The Commonwealth is entitled to ownership and possession of all deliverables purchased or developed with State funds. Contract shall mean the Standard Contract Form issued jointly by ANF, CTR and OSD.

1. Contract Effective Start Date. Notwithstanding verbal or other representations by the parties, or an earlier start date indicated in a Contract, the effective start date of performance under a Contract shall be the date a Contract has been executed by an authorized signatory of the Contractor, the Department, a later date specified in the Contract or the date of any approvals required by law or regulation, whichever is later.

2. Payments And Compensation. The Contractor shall only be compensated for performance delivered and accepted by the Department in accordance with the specific terms and conditions of a Contract. All Contract payments are subject to appropriation pursuant to M.G.L. C. 29, §26, or the availability of sufficient non-appropriated funds for the purposes of a Contract, and shall be subject to intercept pursuant to M.G.L. C. 7A, §3 and 815 CMR 9.00. Overpayments shall be reimbursed by the Contractor or may be offset by the Department from future payments in accordance with state finance law. Acceptance by the Contractor of any payment or partial payment, without any written objection by the Contractor, shall in each instance operate as a release and discharge of the State from all claims, liabilities or other obligations relating to the performance of a Contract.

3. Contractor Payment Mechanism. All Contractors will be paid using the Payment Voucher System unless a different payment mechanism is required. The Contractor shall timely submit invoices (Payment Vouchers - Form PV) and supporting documentation as prescribed in a Contract. The Department shall review and return rejected invoices within fifteen (15) days of receipt with a written explanation for rejection. Payments shall be made in accordance with the bill paying policy issued by the Office of the Comptroller and 815 CMR 4.00, provided that payment periods listed in a Contract of less than forty-five (45) days from the date of receipt of an invoice shall be effective only to enable a Department to take advantage of early payment incentives and shall not subject any payment made within the forty-five (45) day period to a penalty. The Contractor Payroll System, shall be used only for "Individual Contractors" who have been determined to be "Contract Employees" as a result of the Department's completion of an Internal Revenue Service SS-8 form in accordance with the Omnibus Budget Reconciliation Act (OBRA) 1990, and shall automatically process all state and federal mandated payroll, tax and retirement deductions.

4. Contract Termination Or Suspension. A Contract shall terminate on the date specified in a Contract, unless this date is properly amended in accordance with all applicable laws and regulations prior to this date, or unless terminated or suspended under this Section upon prior written notice to the Contractor. The Department may terminate a Contract without cause and without penalty, or may terminate or suspend a Contract if the Contractor breaches any material term or condition or fails to perform or fulfill any material obligation required by a Contract, or in the event of an elimination of an appropriation or availability of sufficient funds for the purposes of a Contract, or in the event of an unforeseen public emergency mandating immediate Department action. Upon immediate notification to the other party, neither the Department nor the Contractor shall be deemed to be in breach for failure or delay in performance due to Acts of God or other causes factually beyond their control and without their fault or negligence. Subcontractor

failure to perform or price increases due to market fluctuations or product availability will not be deemed factually beyond the Contractor's control.

5. Written Notice. Any notice shall be deemed delivered and received when submitted in writing in person or when delivered by any other appropriate method evidencing actual receipt by the Department or the Contractor. Any written notice of termination or suspension delivered to the Contractor shall state the effective date and period of the notice, the reasons for the termination or suspension, if applicable, any alleged breach or failure to perform, a reasonable period to cure any alleged breach or failure to perform, if applicable, and any instructions or restrictions concerning allowable activities, costs or expenditures by the Contractor during the notice period.

6. Confidentiality. The Contractor shall comply with M.G.L. C. 66A if the Contractor becomes a "holder" of "personal data". The Contractor shall also protect the physical security and restrict any access to personal or other Department data in the Contractor's possession, or used by the Contractor in the performance of a Contract, which shall include, but is not limited to the Department's public records, documents, files, software, equipment or systems.

7. Record-keeping And Retention, Inspection Of Records. The Contractor shall maintain records, books, files and other data as specified in a Contract and in such detail as shall properly substantiate claims for payment under a Contract, for a minimum retention period of seven (7) years beginning on the first day after the final payment under a Contract, or such longer period as is necessary for the resolution of any litigation, claim, negotiation, audit or other inquiry involving a Contract. The Department shall have access, as well as any parties identified under Executive Order 195, during the Contractor's regular business hours and upon reasonable prior notice, to such records, including on-site reviews and reproduction of such records at a reasonable expense.

8. Assignment. The Contractor may not assign or delegate, in whole or in part, or otherwise transfer any liability, responsibility, obligation, duty or interest under a Contract, with the exception that the Contractor shall be authorized to assign present and prospective claims for money due to the Contractor pursuant to a Contract in accordance with M.G.L. C. 106, §9-318. The Contractor must provide sufficient notice of assignment and supporting documentation to enable the Department to verify and implement the assignment. Payments to third party assignees will be processed as if such payments were being made directly to the Contractor and these payments will be subject to intercept, offset, counter claims or any other Department rights which are available to the Department or the State against the Contractor.

9. Subcontracting By Contractor. Any subcontract entered into by the Contractor for the purposes of fulfilling the obligations under a Contract must be in writing, authorized in advance by the Department and shall be consistent with and subject to the provisions of these Commonwealth Terms and Conditions and a Contract. Subcontracts will not relieve or discharge the Contractor from any duty, obligation, responsibility or liability arising under a Contract. The Department is entitled to copies of all subcontracts and shall not be bound by any provisions contained in a subcontract to which it is not a party.

10. Affirmative Action, Non-Discrimination In Hiring And Employment. The Contractor shall comply with all federal and state laws, rules and regulations promoting fair employment practices or prohibiting employment discrimination and unfair labor practices and shall not discriminate in the hiring of any applicant for employment nor shall any qualified employee be demoted, discharged or otherwise subject to discrimination in the tenure, position, promotional opportunities, wages, benefits or terms and conditions of their employment because of race, color, national origin, ancestry, age, sex, religion, disability, handicap, sexual orientation or for exercising any rights afforded by law. The Contractor commits to purchasing supplies and services from certified minority or women-owned businesses, small businesses or businesses owned by socially or economically disadvantaged persons or persons with disabilities.

11. Indemnification. Unless otherwise exempted by law, the Contractor shall indemnify and hold harmless the State, including the Department, its agents, officers and employees against any and all claims, liabilities and costs for any personal injury or property damages, patent or copyright infringement or other damages that the State may sustain which arise out of or in connection with the Contractor's performance of a Contract, including but not limited to the negligence, reckless or intentional conduct of the Contractor, its agents, officers, employees or subcontractors. The Contractor shall at no time be considered an agent or representative of the Department or the State. After prompt notification of a claim by the State, the Contractor shall have an opportunity to participate in the defense of such claim and any negotiated



COMMONWEALTH TERMS AND CONDITIONS

settlement agreement or judgment. The State shall not be liable for any costs incurred by the Contractor arising under this paragraph. Any indemnification of the Contractor shall be subject to appropriation and applicable law.

12. Waivers. Forbearance or indulgence in any form or manner by a party shall not be construed as a waiver, nor in any way limit the legal or equitable remedies available to that party. No waiver by either party of any default or breach shall constitute a waiver of any subsequent default or breach.

13. Risk Of Loss. The Contractor shall bear the risk of loss for any Contractor materials used for a Contract and for all deliverables, Department personal or other data which is in the possession of the Contractor or used by the Contractor in the performance of a Contract until possession, ownership and full legal title to the deliverables are transferred to and accepted by the Department.

14. Forum, Choice of Law And Mediation. Any actions arising out of a Contract shall be governed by the laws of Massachusetts, and shall be brought and maintained in a State or federal court in Massachusetts which shall have exclusive jurisdiction thereof. The Department, with the approval of the Attorney General's Office, and the Contractor may agree to voluntary mediation through the Massachusetts Office of Dispute Resolution (MODR) of any Contract dispute and will share the costs of such mediation. No legal or equitable rights of the parties shall be limited by this Section.

15. Contract Boilerplate Interpretation, Severability, Conflicts With Law, Integration. Any amendment or attachment to any Contract which contains conflicting language or has the affect of a deleting, replacing or modifying any printed language of these Commonwealth Terms and Conditions, as officially

published by ANF, CTR and OSD, shall be interpreted as superseded by the official printed language. If any provision of a Contract is found to be superseded by state or federal law or regulation, in whole or in part, then both parties shall be relieved of all obligations under that provision only to the extent necessary to comply with the superseding law, provided however, that the remaining provisions of the Contract, or portions thereof, shall be enforced to the fullest extent permitted by law. All amendments must be executed by the parties in accordance with Section 1. of these Commonwealth Terms and Conditions and filed with the original record copy of a Contract as prescribed by CTR. The printed language of the Standard Contract Form, as officially published by ANF, CTR and OSD, which incorporates by reference these Commonwealth Terms and Conditions, shall supersede any conflicting verbal or written agreements relating to the performance of a Contract, or attached thereto, including contract forms, purchase orders or invoices of the Contractor. The order of priority of documents to interpret a Contract shall be as follows: the printed language of the Commonwealth Terms and Conditions, the Standard Contract Form, the Department's Request for Response (RFR) solicitation document and the Contractor's Response to the RFR solicitation, excluding any language stricken by a Department as unacceptable and including any negotiated terms and conditions allowable pursuant to law or regulation.

IN WITNESS WHEREOF, The Contractor certify under the pains and penalties of perjury that it shall comply with these Commonwealth Terms and Conditions for any applicable Contract executed with the Commonwealth as certified by their authorized signatory below:

CONTRACTOR AUTHORIZED SIGNATORY: _____

(signature)

Print Name: Timothy J. Plante

Title: Chief Administrative and Financial Officer

Date: _____

(Check One): ☒ Organization ☐ Individual

Full Legal Organization or Individual Name: City of Springfield

Doing Business As: Name (If Different): _____

Tax Identification Number: 04-6001415

Address: 36 Court St., 01103

Telephone: 413-886-5004 FAX: 413-750-2623

INSTRUCTIONS FOR FILING THE COMMONWEALTH TERMS AND CONDITIONS

A "Request for Verification of Taxation Reporting Information" form (Massachusetts Substitute W-9 Format), that contains the Contractor's correct TIN, name and legal address information, must be on file with the Office of the Comptroller. If the Contractor has not previously filed this form with the Comptroller, or if the information contained on a previously filed form has changed, please fill out a W-9 form and return it attached to the executed COMMONWEALTH TERMS AND CONDITIONS.

If the Contractor is responding to a Request for Response (RFR), the COMMONWEALTH TERMS AND CONDITIONS must be submitted with the Response to RFR or as specified in the RFR. Otherwise, Departments or Contractors must timely submit the completed and properly executed COMMONWEALTH TERMS AND CONDITIONS (and the W-9 form if applicable) to the: *Payee and Payments Unit, Office of the Comptroller, 9th Floor, One Ashburton Place, Boston, MA 02108* in order to record the filing of this form on the MMARS Vendor File. Contractors are required to execute and file this form only once.

Issued May
2004

COMMONWEALTH OF MASSACHUSETTS

CONTRACTOR AUTHORIZED SIGNATORY LISTING

CONTRACTOR LEGAL NAME: *City of Springfield*
 CONTRACTOR VENDOR/CUSTOMER CODE: *VC 60000192140*

INSTRUCTIONS: Any Contractor (other than a sole-proprietor or an individual contractor) must provide a listing of individuals who are authorized as legal representatives of the Contractor who can sign contracts and other legally binding documents related to the contract on the Contractor's behalf. In addition to this listing, any state department may require additional proof of authority to sign contracts on behalf of the Contractor, or proof of authenticity of signature (a notarized signature that the Department can use to verify that the signature and date that appear on the Contract or other legal document was actually made by the Contractor's authorized signatory, and not by a representative, designee or other individual.)

NOTICE: *Acceptance of any payment under a Contract or Grant shall operate as a waiver of any defense by the Contractor challenging the existence of a valid Contract due to an alleged lack of actual authority to execute the document by the signatory.*

For privacy purposes **DO NOT ATTACH** any documentation containing personal information, such as bank account numbers, social security numbers, driver's licenses, home addresses, social security cards or any other personally identifiable information that you do not want released as part of a public record. The Commonwealth reserves the right to publish the names and titles of authorized signatories of contractors.

AUTHORIZED SIGNATORY NAME	TITLE
<i>Timothy J. Plante</i>	<i>Chief Admin & Financial Officer</i>
<i>Patrick Burns or designee</i>	<i>City Comptroller</i>
<i>Kathleen Breck or Peter Fenton</i>	<i>Law Dept.</i>
<i>Domenic J. Sarno</i>	<i>Mayor</i>

I certify that I am the President, Chief Executive Officer, Chief Fiscal Officer, Corporate Clerk or Legal Counsel for the Contractor and as an authorized officer of the Contractor I certify that the names of the individuals identified on this listing are current as of the date of execution below and that these individuals are authorized to sign contracts and other legally binding documents related to contracts with the Commonwealth of Massachusetts on behalf of the Contractor. I understand and agree that the Contractor has a duty to ensure that this listing is immediately updated and communicated to any state department with which the Contractor does business whenever the authorized signatories above retire, are otherwise terminated from the Contractor's employ, have their responsibilities changed resulting in their no longer being authorized to sign contracts with the Commonwealth or whenever new signatories are designated.

Kathleen Breck
Signature

Date:

8/20/14

Title: *Deputy City Solicitor* Telephone: *413 787-6177*

Fax: *413 787 6173* Email: *kbreck@springfieldcityhall.com*

[Listing can not be accepted without all of this information completed.]

A copy of this listing must be attached to the "record copy" of a contract filed with the department.

Attachment: IT - EOAF GRANT - Contract (3658 : EOAF Grant - No Match - \$34,275)

**COMMONWEALTH OF MASSACHUSETTS
CONTRACTOR AUTHORIZED SIGNATORY LISTING**

Issued May
2004



CONTRACTOR LEGAL NAME : City of Springfield
CONTRACTOR VENDOR/CUSTOMER CODE: VC60000192140

PROOF OF AUTHENTICATION OF SIGNATURE

**This page is optional and is available for a department to authenticate contract signatures.
It is recommended that Departments obtain authentication of signature for the signatory
who submits the Contractor Authorized Listing.**

This Section MUST be completed by the Contractor Authorized Signatory in presence of notary.

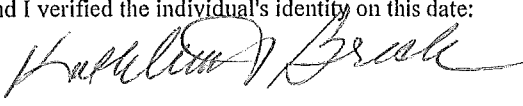
Signatory's full legal name (print or type): Timothy J. Plante

Title: Chief Administrative and Financial Officer

X 
Signature as it will appear on contract or other document (Complete only in presence of notary):

AUTHENTICATED BY NOTARY OR CORPORATE CLERK (PICK ONLY ONE) AS FOLLOWS:

I, Kathleen T. Breck (NOTARY) as a notary public certify that I witnessed the signature of the aforementioned signatory above and I verified the individual's identity on this date:

August 25, 20 16. 
My commission expires on: 5/13/22

AFFIX NOTARY SEAL

I, _____ (CORPORATE CLERK) certify that I witnessed the signature of the aforementioned signatory above, that I verified the individual's identity and confirm the individual's authority as an authorized signatory for the Contractor on this date:

_____, 20 ____.

AFFIX CORPORATE SEAL

Attachment: IT - EOAF GRANT - Contract (3658 : EOAF Grant - No Match - \$34,275)

Issued May
2004

COMMONWEALTH OF MASSACHUSETTS

CONTRACTOR AUTHORIZED SIGNATORY LISTING

CONTRACTOR LEGAL NAME : City of Springfield
 CONTRACTOR VENDOR/CUSTOMER CODE: VC60000192140

PROOF OF AUTHENTICATION OF SIGNATURE

This page is optional and is available for a department to authenticate contract signatures.
 It is recommended that Departments obtain authentication of signature for the signatory
 who submits the Contractor Authorized Listing.

This Section **MUST** be completed by the Contractor Authorized Signatory in presence of notary.

Signatory's full legal name (print or type): Domenic J. Sarno

Title: Mayor

X

Signature as it will appear on contract or other document (Complete only in presence of notary):

AUTHENTICATED BY NOTARY OR CORPORATE CLERK (PICK ONLY ONE) AS FOLLOWS:

I, Kathleen T. Brack (NOTARY) as a notary public certify that I witnessed
 the signature of the aforementioned signatory above and I verified the individual's identity on this date:

August 25, 20 16.

My commission expires on:

5/13/22

AFFIX NOTARY SEAL

I, _____ (CORPORATE CLERK) certify that I witnessed the
 signature of the aforementioned signatory above, that I verified the individual's identity and confirm the individual's
 authority as an authorized signatory for the Contractor on this date:

_____, 20 ____.

AFFIX CORPORATE SEAL

Attachment: IT - EOAF GRANT - Contract (3658 : EOAF Grant - No Match - \$34,275)

Issued May
2004

COMMONWEALTH OF MASSACHUSETTS

CONTRACTOR AUTHORIZED SIGNATORY LISTING

CONTRACTOR LEGAL NAME : City of Springfield
 CONTRACTOR VENDOR/CUSTOMER CODE: VC60000192140

PROOF OF AUTHENTICATION OF SIGNATURE

This page is optional and is available for a department to authenticate contract signatures.
 It is recommended that Departments obtain authentication of signature for the signatory
 who submits the Contractor Authorized Listing.

This Section **MUST** be completed by the Contractor Authorized Signatory in presence of notary.

Signatory's full legal name (print or type): Kathleen T. Breck

Title: Deputy City Solicitor

X Kathleen T. Breck

Signature as it will appear on contract or other document (Complete only in presence of notary):

AUTHENTICATED BY NOTARY OR CORPORATE CLERK (PICK ONLY ONE) AS FOLLOWS:

I, Stephanie A. Liebl (NOTARY) as a notary public certify that I witnessed
 the signature of the aforementioned signatory above and I verified the individual's identity on this date:

8/25, 20 16.

My commission expires on:

STEPHANIE A. LIEBL
 Notary Public
 My Commission Expires September 29, 2017

AFFIX NOTARY SEAL

I, _____ (CORPORATE CLERK) certify that I witnessed the
 signature of the aforementioned signatory above, that I verified the individual's identity and confirm the individual's
 authority as an authorized signatory for the Contractor on this date:

_____, 20 ____.

AFFIX CORPORATE SEAL

Attachment: IT - EOAF GRANT - Contract (3658 : EOAF Grant - No Match - \$34,275)

Issued May
2004



COMMONWEALTH OF MASSACHUSETTS CONTRACTOR AUTHORIZED SIGNATORY LISTING

CONTRACTOR LEGAL NAME : City of Springfield
CONTRACTOR VENDOR/CUSTOMER CODE: VC60000192140

PROOF OF AUTHENTICATION OF SIGNATURE

This page is optional and is available for a department to authenticate contract signatures.
It is recommended that Departments obtain authentication of signature for the signatory
who submits the Contractor Authorized Listing.

This Section **MUST** be completed by the Contractor Authorized Signatory in presence of notary.

Signatory's full legal name (print or type): Joanne Raleigh

Title: Deputy City Comptroller

X *Joanne Raleigh*
Signature as it will appear on contract or other document (Complete only in presence of notary):

AUTHENTICATED BY NOTARY OR CORPORATE CLERK (PICK ONLY ONE) AS FOLLOWS:

I, *Kathleen T. Breck* (NOTARY) as a notary public certify that I witnessed
the signature of the aforementioned signatory above and I verified the individual's identity on this date:

August 25, 20 *16*. *Kathleen T. Breck*

My commission expires on: *5/13/22*

AFFIX NOTARY SEAL

I, _____ (CORPORATE CLERK) certify that I witnessed the
signature of the aforementioned signatory above, that I verified the individual's identity and confirm the individual's
authority as an authorized signatory for the Contractor on this date:

_____, 20 ____.

AFFIX CORPORATE SEAL

Attachment: IT - EOAF GRANT - Contract (3658 : EOAF Grant - No Match - \$34,275)



REQUEST FOR GRANT SETUP

This form and the required attachments are required by the Office of the City Comptrollers before a Grant Fund and related accounts will be created in MUNIS. Please do not use this form for requesting a non-grant related account to be created – use the Request for New Account form instead. Please return this form and the required attachments to the Office of the City Comptrollers.

All fields are mandatory.

Date of Request	9/19/16
Department Requesting Grant Setup	ITD
Department Phone # (Please include extension)	413-750-2400
Name and Title of Person to Contact in Case of Questions	Andrew Doty
Was this Grant previously setup for a prior fiscal year?	
If yes, please indicate your previous project number: No	
If this is a new Grant, have you filled out the “Approval to apply for a grant” Form?	
(Y/N) N	If yes, please attach a copy of the Approved Form.

Grant Type:

	State – Highway
	Federal Pass-Through DOE– School
	Federal Direct– School
	Federal – City
	State DOE– School
	State Other – School
X	State – City
	Private/Other

Grant Name: Executive Office for Administration and Finance (EOAF) Grant
(Community Compact)

Total Grant Amount Awarded: \$ 34,275

Attachment: EOAF Grant Set-Up Form - Signed (3658 : EOAF Grant - No Match - \$34,275)

Is this a Reimbursable Grant?

(Y/N) Y – Partial

**Seventy-five percent (75%) of the grant award, or \$25,705, will be disbursed within 45 days of execution of the grant contract.*

**Twenty-five percent (25%) of the grant award, or \$8,570, will be disbursed to the Grantee within 45 days of the receipt of Grantee report certifying project completion and submission of supporting documentation.*

If it is a Reimbursable Grant, please enter Grantor contact information or the CID # if Grantor is already in the customer file:

Entity Name	Division of Local Services
Contact Person	Pam Kocher, Director of Special Initiatives
Street Address	PO Box 9569
City, State, Zip Code	Boston, MA 02114
Telephone	(617) 626-2345
Fax	
E-Mail	kocherp@dor.state.ma.us

Actual Award Date 8/29/16

Board Approval Date

Start Date

Expiration Date 6/30/2017

Renewal Action Date (optional)

If there are any Matching Funds:

Type

Percent

Amount

Comments re: Description/Purpose of Grant

- (1) IT assessment consisting of datacenter/systems discovery, security/network infrastructure discovery, and recommendations & documentation, and
- (2) Fiber/copper connectivity mapping assessment & documentation

Comments re: Conditions/Restrictions of Grant

If this is a Federal Grant, enter CFDA#:

If applicable enter the State ID # :

What is the required drawdown frequency?

(Ex: Monthly, Quarterly)

If payment is to be sent by Grantor as a Wire,

Please enter any wire reference/identification # that may be used (if known)

Attachment: EOAF Grant Set-Up Form - Signed (3658 : EOAF Grant - No Match - \$34,275)

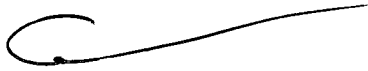
Please list all object codes needed for the grant.
(Attach additional sheets if additional orgs and roll-ups are needed):

Org Code:

Object Codes:

Budget Roll-Up Codes:

I hereby attest that under the penalties of Chapter 656, I will adhere to all regulations in this grant agreement. I am responsible for timely and accurate reimbursements in the amounts listed above.



Signature

9-21-16

Date

Please attach the following documents:

- ☐ Signed Approval to Apply for a Grant Form
- ☐ Grant Award Letter
- ☐ City Council/Mayor Approval
- ☐ Any other relevant documentation

This Form and all relevant attachments will be scanned and attached in the Grant Maintenance module in MUNIS and can be viewed or printed at your convenience.

Attachment: EOAF Grant Set-Up Form - Signed (3658 : EOAF Grant - No Match - \$34,275)



City Council

ADOPTED

Meeting: 10/03/16 07:00 PM
Initiator: Melanie Acobe
Sponsors: Mayor Domenic J. Sarno
DOC ID: 3666

17

One Care Dual Rate Grant - No Match Required \$10,784.70 (Mayor Sarno)

WHEREAS, the Department of Elder Affairs has been awarded a One Care Dual Rate Grant of \$10,784.70 From the Massachusetts Executive Office of Elder Affairs; and

WHEREAS, the grant funds provide counseling and assist Medicare/Medicaid beneficiaries ages 21-64 to know their rights and health insurance choices including Integrated Care Organizations in Massachusetts (One Care); and

WHEREAS, the Department intends to use the grant funds to provide expanded outreach plans to educate community-based disability agencies, providers, caregiver's and family members and support groups in an effort to target dually-eligible consumers ages 21-64 for information and access to One Care provider benefits. The department will ensure and provide access to a language interpreter line to serve limited English proficient (LEP) consumers within service area via telephone and provide on-going feedback to the state office about counseling sessions, outreach activities and best practices; and

WHEREAS, the Department has accepted the grant and requests authorization from the City Council and the Mayor to expend the grant funds listed below for the purposes of such grants; and

WHEREAS, the Chief Administrative and Financial Officer, after an evaluation of all pertinent financial information reasonably available, has certified that the City's financial resources and revenues are and will continue to be adequate to support the proposed expenditures and obligations involved in the City Council Order authorizing the expenditure of the grant funds listed herein, subject to the approval of the Mayor, without a detrimental impact on the continuous provision of the existing level of municipal services, in accordance with Section 2(f) of Chapter 656 of the Acts of 1989, as added by Section 1 of Chapter 468 of the Acts of 2008.

NOW THEREFORE BE IT ORDERED, acting pursuant to Mass. Gen. Laws ch. 44, sec. 53A, that the City Council approves the expenditure by the Department of the grant funds listed below for the purposes of such grant, subject to the approval of the Mayor, and the grant funds received shall be deposited with the City Treasurer and held as a separate account and may be expended for the purposes of the grant without further appropriation:

One Care Dual Rate Grant - \$10,784.70

RESULT: PASSED BY VOICE VOTE



REQUEST FOR GRANT SETUP

This form and the required attachments are required by the Office of the City Comptrollers before a Grant Fund and related accounts will be created in MUNIS. Please do not use this form for requesting a non-grant related account to be created – use the Request for New Account form instead. Please return this form and the required attachments to the Office of the City Comptrollers.

All fields are mandatory.

Date of Request 9-13-2016

Department Requesting Grant Setup DEA

Department Phone # (Please include extension) 886-5223

Name and Title of Person to Contact in Case of Questions- Carol Gasque, Fiscal Mgr.

Was this Grant previously setup for a prior fiscal year? YES

If yes, please indicate your previous project number: ONE CARE 0364

If this is a new Grant, have you filled out the “Approval to apply for a grant” Form?
(Y/N) NO If yes, please attach a copy of the Approved Form.

Grant Type:

State – Highway
Federal Pass-Through DOE– School
Federal Direct– School
Federal – City
State DOE– School
State Other – School
State – City
Private/Other

XXX

Grant Name: ONE CARE DUAL RATE

Total Grant Amount Awarded: \$ 10,784.70

Attachment: MELANIE-ONE CARE-DUAL RATE (3666 : One Care Dual Rate Grant - No Match Required \$10,784.70)

Is this a Reimbursable Grant?

(Y/N) NO

A Reimbursable Grant is defined as one that requires that you pay for expenses first and then you apply to the grantor for a reimbursement of the exact amount actually expended.

If it is a Reimbursable Grant, please enter Grantor contact information or the CID # if Grantor is already in the customer file:

Entity Name	ONE CARE DUAL RATE
Contact Person	NEIL PETROCELLI
Street Address	ONE ASHBURTON PLACE, 5 TH FLOOR
City, State, Zip Code	BOSTON, MA 02108
Telephone	617-222-7427
Fax	617-727-9368
E-Mail	neil.petrocelli@state.ma.us

Actual Award Date 7/1/2015

Board Approval Date

Start Date 7/1/2015

Expiration Date 6/30/2016

Renewal Action Date (optional)

If there are any Matching Funds:

Type

Percent

Amount

Is there any Leverage? HUD FUNDING ONLY

Source

Amount

Comments re: Description/Purpose of Grant

OUTREACH

Comments re: Conditions/Restrictions of Grant

If this is a Federal Grant, enter CFDA#:

If applicable enter the State ID # :

What is the required drawdown frequency?

(Ex: Monthly, Quarterly)

If payment is to be sent by Grantor as a Wire,

Please enter any wire reference/identification # that may be used (if known)

Attachment: MELANIE-ONE CARE-DUAL RATE (3666 : One Care Dual Rate Grant - No Match Required \$10,784.70)

Please list all object codes needed for the grant.
(Attach additional sheets if additional orgs and roll-ups are needed):

Org Code: 28235404

Object Codes: 501000, 530105, 551700

Budget Roll-Up Codes:

I hereby attest that under the penalties of Chapter 656, I will adhere to all regulations in this grant agreement. I am responsible for timely and accurate reimbursements in the amounts listed above.

Carol K. Dasgupta
Signature

9/13/16
Date

Please attach the following documents:

- ☐ Signed Approval to Apply for a Grant Form
- ☐ Grant Award Letter
- ☐ City Council/Mayor Approval
- ☐ Any other relevant documentation

This Form and all relevant attachments will be scanned and attached in the Grant Maintenance module in MUNIS and can be viewed or printed at your convenience.

COMMONWEALTH OF MASSACHUSETTS ~ STANDARD CONTRACT FORM



17.a

This form is jointly issued and published by the [Executive Office for Administration and Finance \(ANF\)](#), the [Office of the Comptroller \(CTR\)](#) and the [Operational Services Division \(OSD\)](#) as the default contract for all Commonwealth Departments when another form is not prescribed by regulation or policy. Any changes to the official printed language of this form shall be void. Additional non-conflicting terms may be added by Attachment. Contractors may not require any additional agreements, engagement letters, contract forms or other additional terms as part of this Contract without prior Department approval. Click on hyperlinks for definitions, instructions and legal requirements that are incorporated by reference into this Contract. An electronic copy of this form is available at www.mass.gov/osc under [Guidance For Vendors - Forms](#) or www.mass.gov/osd under [OSD Forms](#).

CONTRACTOR LEGAL NAME: CITY OF SPRINGFIELD (and d/b/a):		COMMONWEALTH DEPARTMENT NAME: Executive Office of Elder Affairs MMARS Department Code: ELD	
Legal Address: (W-9, W-4,T&C): 36 Court St., Springfield, MA 01103-1699		Business Mailing Address: One Ashburton Place, 5th Floor Boston, MA 02108	
Contract Manager: Alicia Germain or Katie Ryan Collins		Billing Address (if different):	
E-Mail: agermain@springfieldcityhall.com or kcollins@springfieldcityhall.com		Contract Manager: Neil Petrocelli	
Phone: 1-413-750-2893 Fax: 1-413-750-2694		E-Mail: neil.petrocelli@state.ma.us	
Contractor Vendor Code: VC6000192140		Phone: 617-222-7427 Fax: 617-727-9368	
Vendor Code Address ID (e.g. "AD001"): AD_001 (Note: The Address ID must be set up for EFT payments.)		MMARS Doc ID(s): CT-ELD-0364 DUALSONECARERATESPNG	
		RFR/Procurement or Other ID Number: ELD-RFR-2013-03	
X NEW CONTRACT		CONTRACT AMENDMENT	
PROCUREMENT OR EXCEPTION TYPE: (Check one option only) ☐ Statewide Contract (OSD or an OSD-designated Department) ☐ Collective Purchase (Attach OSD approval, scope, budget) ☒ Department Procurement (Includes State or Federal grants 815 CMR 2.00) (Attach RFR and Response or other procurement supporting documentation) ☐ Emergency Contract (Attach justification for emergency, scope, budget) ☐ Contract Employee (Attach Employment Status Form , scope, budget) ☐ Legislative/Legal or Other: (Attach authorizing language/justification, scope and budget)		Enter Current Contract End Date Prior to Amendment: <u>June 30, 2015</u> Enter Amendment Amount: \$ _____. (or "no change") AMENDMENT TYPE: (Check one option only. Attach details of Amendment changes.) ☐ Amendment to Scope or Budget (Attach updated scope and budget) ☐ Interim Contract (Attach justification for Interim Contract and updated scope/budget) ☐ Contract Employee (Attach any updates to scope or budget) ☐ Legislative/Legal or Other: (Attach authorizing language/justification and updated scope and budget)	
The following COMMONWEALTH TERMS AND CONDITIONS (T&C) has been executed, filed with CTR and is incorporated by reference into this Contract. ☐ Commonwealth Terms and Conditions ☒ Commonwealth Terms and Conditions For Human and Social Services			
COMPENSATION: (Check ONE option): The Department certifies that payments for authorized performance accepted in accordance with the terms of this Contract will be supported in the state accounting system by sufficient appropriations or other non-appropriated funds, subject to intercept for Commonwealth owed debts under 815 CMR 9.00 . ☒ Rate Contract (No Maximum Obligation. Attach details of all rates, units, calculations, conditions or terms and any changes if rates or terms are being amended.) ☐ Maximum Obligation Contract Enter Total Maximum Obligation for total duration of this Contract (or new Total if Contract is being amended). \$ _____.			
PROMPT PAYMENT DISCOUNTS (PPD): Commonwealth payments are issued through EFT 45 days from invoice receipt. Contractors requesting accelerated payments must identify a PPD as follows: Payment issued within 10 days ☐ % PPD; Payment issued within 15 days ☐ % PPD; Payment issued within 20 days ☐ % PPD; Payment issued within 30 days ☐ % PPD. If PPD percentages are left blank, identify reason: ☒ agree to standard 45 day cycle ☐ statutory/legal or Ready Payments (G.L. c. 29, § 23A); ☐ only initial payment (subsequent payments scheduled to support standard EFT 45 day payment cycle. See Prompt Pay Discounts Policy .)			
BRIEF DESCRIPTION OF CONTRACT PERFORMANCE or REASON FOR AMENDMENT: (Enter the Contract title, purpose, fiscal year(s) and a detailed description of the scope of performance or what is being amended for a Contract Amendment. Attach all supporting documentation and justifications.) Rate contract is extended through 06/30/2016 at current rate of \$78.15 per documented One Care Counseling Unit.			
ANTICIPATED START DATE: (Complete ONE option only) The Department and Contractor certify for this Contract, or Contract Amendment, that Contract obligations: ☒ 1. may be incurred as of the Effective Date (latest signature date below) and no obligations have been incurred prior to the Effective Date . ☐ 2. may be incurred as of a date LATER than the Effective Date below and no obligations have been incurred prior to the Effective Date . ☐ 3. were incurred as of _____, a date PRIOR to the Effective Date below, and the parties agree that payments for any obligations incurred prior to the Effective Date are authorized to be made either as settlement payments or as authorized reimbursement payments, and that the details and circumstances of all obligations under this Contract are attached and incorporated into this Contract. Acceptance of payments forever releases the Commonwealth from further claims related to these obligations.			
CONTRACT END DATE: Contract performance shall terminate as of <u>June 30, 2016</u> , with no new obligations being incurred after this date unless the Contract is properly amended, provided that the terms of this Contract and performance expectations and obligations shall survive its termination for the purpose of resolving any claim or dispute, for completing any negotiated terms and warranties, to allow any close out or transition performance, reporting, invoicing or final payments, or during any lapse between amendments.			
CERTIFICATIONS: Notwithstanding verbal or other representations by the parties, the "Effective Date" of this Contract or Amendment shall be the latest date that this Contract or Amendment has been executed by an authorized signatory of the Contractor, the Department, or a later Contract or Amendment Start Date specified above, subject to any required approvals. The Contractor makes all certifications required under the attached Contractor Certifications (incorporated by reference if not attached hereto) under the pains and penalties of perjury, agrees to provide any required documentation upon request to support compliance, and agrees that all terms governing performance of this Contract and doing business in Massachusetts are attached or incorporated by reference herein according to the following hierarchy of document precedence, the applicable Commonwealth Terms and Conditions , this Standard Contract Form including the Instructions and Contractor Certifications , the Request for Response (RFR) or other solicitation, the Contractor's Response, and additional negotiated terms, provided that additional negotiated terms will take precedence over the relevant terms in the RFR and the Contractor's Response only if made using the process outlined in 801 CMR 21.07 , incorporated herein, provided that any amended RFR or Response terms result in best value, lower costs, or a more cost effective Contract.			
AUTHORIZING SIGNATURE FOR THE CONTRACTOR: X: <u>Domenic J. Sarno</u> Date: <u>6/25/15</u> (Signature and Date Must Be Handwritten At Time of Signature) Print Name: <u>Domenic J. Sarno, Mayor</u> Print Title: <u>Mayor of the City of Springfield, MA</u>		AUTHORIZING SIGNATURE FOR THE COMMONWEALTH: X: <u>Peggy Conneely</u> Date: <u>6/26/15</u> (Signature and Date Must Be Handwritten At Time of Signature) Print Name: <u>Pete J. Tieman</u> Print Title: <u>Director of Administration & Finance</u> <u>Accounting & Contracting</u>	



THE COMMONWEALTH OF MASSACHUSETTS
THE EXECUTIVE OFFICE OF ELDER AFFAIRS
INVOICE SUBMISSION FORM

SAMPLE

Agency Name:	CITY OF SPRINGFIELD
SHINE Region:	Hamptden Region
Vendor Code :	VC6000192140
Contract #	CT ELD 0364DUALSONECARERATESPNG
Program:	SHINE OneCare
Month of Service:	February 2015 - May 2015

	Account Number (Elder Affairs Use Only)	(For Elder Affairs use only)	Per activity rate	Units for this period	Adjustments from previous months	Requested Amount This Month	(For Elder Affairs use only)	
SHINE OneCare Activity			\$ 78.15	25		\$1,953.75	Approved Amount	Date Approved by (Initials only)
Total Amount Billed				25		\$1,953.75		

I hereby certify under the pains and penalties of perjury that those costs being submitted for reimbursement have been incurred by this agency.

Authorized Signature

Date

For EDEA Use Only:

EDEA DESIGNATED SHINE REPRESENTATIVE

Date

DIRECTOR OF ADMINISTRATION AND FINANCE

Date



City Council

ADOPTED

Meeting: 10/03/16 07:00 PM
Initiator: Melanie Acobe
Sponsors: Mayor Domenic J. Sarno
DOC ID: 3664

18

Springfield City Library Donations - \$589.04 (Mayor Sarno)

WHEREAS, the Library Department has been awarded donations totaling \$589.04 from various individuals; and

WHEREAS, the funds provided by the donors were designated for the Springfield City Library Donation Fund; and

WHEREAS, the Department has accepted the donations and requests authorization from the City Council and the Mayor to expend the donation funds listed in the attachments; and

WHEREAS, the Chief Administrative and Financial Officer, after an evaluation of all pertinent financial information reasonably available, has certified that the City's financial resources and revenues are and will continue to be adequate to support the proposed expenditures and obligations involved in the City Council Order authorizing the expenditure of the donation funds listed herein, subject to the approval of the Mayor, without a detrimental impact on the continuous provision of the existing level of municipal services, in accordance with Section 2(f) of Chapter 656 of the Acts of 1989, as added by Section 1 of Chapter 468 of the Acts of 2008.

NOW THEREFORE BE IT ORDERED, acting pursuant to Mass. Gen. Laws Ch. 44, sec 53A, that the City Council approves the expenditure by the Department of the donation funds listed below for the purposes of such donation, subject to the approval of the Mayor, and the donation funds received shall be deposited with the City Treasurer and held as a separate account and may be expended for the purposes of the donation without further appropriation:

Springfield City Library Donations - \$589.04

RESULT: PASSED BY VOICE VOTE

SPRINGFIELD PUBLIC FORUM INC.
P.O. BOX 5374
SPRINGFIELD, MA 01101-5374

53-7202/2118

1592

DATE

09-07-16

PAY TO
THE ORDER OF*Springfield City Library*
Levy - fine & no/100

\$ 75.00

DOLLARS

Security Features
Patented
Details on Back**United Bank**

MEMO

[Signature]

MP

⑆ 2118720271⑆

779070532⑆ 1592

SPECIALTY BLUE

*Donation**Dep to**2917**Fund*

**ASSOCIATION of
COLLEGE and New
RESEARCH England
LIBRARIES Chapter**

August 25, 2016

Jessica Adamick
W.E.B. Du Bois Library
University of Massachusetts Amherst
154 Hicks Way
Amherst, MA 01003

Springfield City Library
220 State Street
Springfield, MA 01103

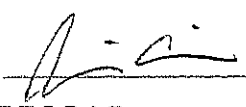
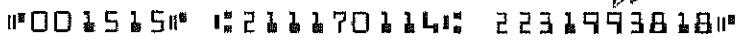
Dear Jean Canosa Albano,

Enclosed is the reissued donation to the Springfield City Library for \$150. This donation is through Cheryl McCarthy, who wished to donate her honorarium from an ACRL NEC program to your organization! I canceled the first check; please contact me at jadamick@library.umass.edu if you have any questions.

Best,

Jessica Adamick
ACRL New England Treasurer

Encl.

ACRL NEW ENGLAND CHAPTER		1515
DATE <u>8/25/16</u>		51-7011/2111 263
PAY TO THE ORDER OF <u>Springfield City Library</u>	\$ <u>150</u>	
<u>one hundred fifty</u>	DOLLARS	
		
FOR _____		
		



City Council

ADOPTED

Meeting: 10/03/16 07:00 PM
Initiator: Melanie Acobe
Sponsors: Mayor Domenic J. Sarno
DOC ID: 3668

19

TJO Donations- \$305.00 (Mayor Sarno)

WHEREAS, the Thomas J. O'Connor Animal Control and Adoption Center has been awarded donations totaling \$305.00 From various individuals; and

WHEREAS, the funds provided by the donors were designated for the Thomas J. O'Connor Donation Fund; and

WHEREAS, the Department has accepted the donation and requests authorization from the City Council and the Mayor to expend the donation funds listed in "TJO Donations"; and

WHEREAS, the Chief Administrative and Financial Officer, after an evaluation of all pertinent financial information reasonably available, has certified that the City's financial resources and revenues are and will continue to be adequate to support the proposed expenditures and obligations involved in the City Council Order authorizing the expenditure of the donation funds listed herein, subject to the approval of the Mayor, without a detrimental impact on the continuous provision of the existing level of municipal services, in accordance with Section 2(f) of Chapter 656 of the Acts of 1989, as added by Section 1 of Chapter 468 of the Acts of 2008.

NOW THEREFORE BE IT ORDERED, acting pursuant to Mass. Gen. Laws Ch. 44, sec 53A, that the City Council approves the expenditure by the Department of the donation funds listed below for the purposes of such donation, subject to the approval of the Mayor, and the donation funds received shall be deposited with the City Treasurer and held as a separate account and may be expended for the purposes of the donation without further appropriation:

TJO Donations- \$305.00

RESULT: PASSED BY VOICE VOTE

ORG	OBJECT	DESCRIPTI	YEAR	PER	JOURNAL	EFF DATE	SRC	REF1	PO/REF2
'29812925	'483000	'DONATIO	2017	'03	' 501	'09/06/201	CRP	'292	'4329854
'29812925	'483000	'DONATIO	2017	'02	' 1328	'08/16/201	CRP	'292	'4316714
'29812925	'483000	'DONATIO	2017	'02	' 835	'08/09/201	CRP	'292	'4311164
'29812925	'483000	'DONATIO	2017	'01	' 1088	'07/19/201	CRP	'292	'4261399
'29812925	'483000	'DONATIO	2017	'01	' 627	'07/12/201	CRP	'292	'4255559
Total									

Attachment: TJO Donations 10_03_16 (3668 : TJO Donations - \$305.00)

AMOUNT

- 235
- 20
- 25
- 20
- 5
- 305

Attachment: TJO Donations 10_03_16 (3668 : TJO Donations - \$305.00)



City Council

ADOPTED

Meeting: 10/03/16 07:00 PM
Initiator: Christopher Fraser
Sponsors: Mayor Domenic J. Sarno
DOC ID: 3660

20

Police Department Donations - \$95.00 (Mayor Sarno)

WHEREAS, the Springfield Police Department has been awarded donations totaling \$95.00 From various individuals and organizations; and

WHEREAS, the funds provided by the donors were designated for the Police Department's Donation Fund; and

WHEREAS, the Department has accepted the donation and requests authorization from the City Council and the Mayor to expend the donation funds listed in Attachment; and

WHEREAS, the Chief Administrative and Financial Officer, after an evaluation of all pertinent financial information reasonably available, has certified that the City's financial resources and revenues are and will continue to be adequate to support the proposed expenditures and obligations involved in the City Council Order authorizing the expenditure of the donation funds listed herein, subject to the approval of the Mayor, without a detrimental impact on the continuous provision of the existing level of municipal services, in accordance with Section 2(f) of Chapter 656 of the Acts of 1989, as added by Section 1 of Chapter 468 of the Acts of 2008.

NOW THEREFORE BE IT ORDERED, acting pursuant to Mass. Gen. Laws Ch. 44, sec 53A, that the City Council approves the expenditure by the Department of the donation funds listed below for the purposes of such donation, subject to the approval of the Mayor, and the donation funds received shall be deposited with the City Treasurer and held as a separate account and may be expended for the purposes of the donation without further appropriation:

Police Department Donations - \$95.00

RESULT: PASSED BY VOICE VOTE

SPRINGFIELD POLICE DEPARTMENT FY17 DONATIONS

Date	Donator	Address	Purpose	Amount
9/7/2016	YMCA GREATER SPRINGFIELD	275 CHESTNUT ST, SPRINGFIELD MA, 01104	C3 INITIATIVE - FOREST PARK	\$ 20.00
9/7/2016	COMMITTEE - STATE REP. CARLOS GONZALEZ	44 DOVER ST, SPRINGFIELD, MA 01107	C3 INITIATIVE - FOREST PARK	\$ 75.00
Total				\$ 95.00

Attachment: Police Donations (3660 : Police Department Donations - \$95.00)



City Council

ADOPTED

Meeting: 10/03/16 07:00 PM
Initiator: Heather Potito
Sponsors: Mayor Domenic J. Sarno
DOC ID: 3661

21

Bills of Prior Year - Treasurer Department (Mayor Sarno)

WHEREAS, to meet expenses incurred by the City of Springfield, pursuant to Mass. Gen. Laws ch. 44 Section 64 and Chapter 468 of the Acts of 2008, the Chief Administrative and Financial Officer and his Honor the Mayor have requested authorization from the City Council that the Department listed on the attached CAFO certification may pay a bill from a previous fiscal year totaling \$1,375.00; and

WHEREAS, the department listed will make payment for an unpaid bill of a previous fiscal year from their FY17 General Fund Operating Budget; and;

WHEREAS, the Chief Administrative and Financial Officer has provided a written certification to the Mayor and City Council, that in his professional opinion, after an evaluation of all pertinent financial information reasonably available, the City's financial resources and revenues are and will continue to be adequate to support the proposed expenditures and obligations involved in the payments, without a detrimental impact on the continuous provision of the existing level of municipal services, in accordance with Section 2(f) of Chapter 656 of the Acts of 1989, as added by Section 1 of Chapter 468 of the Acts of 2008;

NOW THEREFORE BE IT ORDERED, that the City Council approves the payment of the bills listed on the attached from the FY17 General Fund Departmental Operating Budgets for the expenses incurred in a previous fiscal year.

RESULT:	ADOPTED [12 TO 0]
AYES:	Hurst, Shea, Twiggs, Allen, Williams, Ramos, Williams, Gomez, Ashe, Edwards, Walsh, Fenton
ABSENT:	Timothy J. Rooke

City of Springfield
36 Court Street
Springfield, MA 01103

Division of Administration
and Finance



To: Springfield City Council
From: Timothy J. Plante, Chief Administrative & Financial Officer
Date: 10/3/16
Re: Order for Council Meeting – 10/3/16
Cc: Mayor Sarno

Purpose: The purpose of this memo is to provide an explanation of the order sponsored by the Mayor for the October 3, 2016 Council meeting, which will pay a prior year invoice totaling \$1,375.00. Pursuant to Mass. General Laws Ch. 44 Section 64 and Chapter 468 of the Acts of 2008, a two-thirds vote by the City Council is required to approve payment of all invoices from previous fiscal years.

Background: This is a request to allow the Treasurer's Department to pay a previous year's bill for Property Management of the Tax Title Program from the current year (FY17) budget. Listed below is the department invoice, due date, reason and amount.

Department	Invoice#	Vendor	Date	Reason	Amount
Treasurer	7589	Western Mass Environmental, LLC.	10/6/2015	FY16 Services Rendered	\$ 1,375.00
TOTAL					\$ 1,375.00

CAFO Certification: This memorandum will confirm that in my professional opinion, as the Chief Administrative and Financial Officer, after an evaluation of all pertinent financial information reasonably available, that the City's financial resources and revenues are and will continue to be adequate to support the proposed expenditures and obligations involved in this City Council Order, without a detrimental impact on the continuous provision of the existing level of municipal services, in accordance with Section 2(f) of Chapter 656 of the Acts of 1989, as added by Section 1 of Chapter 468 of the Acts of 2008.

This certification is made in accordance with Section 2(f) of Chapter 656 of the Acts of 1989, as added by Section 1 of Chapter 468 of the Acts of 2008.

Attachment: CAFO Cert - Treasurer WME BOPY (3661 : Bills of Prior Year - Treasurer Department)

Western Mass Environmental, LLC

93 Wayside Ave.
West Springfield, MA 01089

Invoice

Date	Invoice #
10/6/2015	7589

Packet Pg. 328

Bill To
SPRINGFIELD OFFICE OF PLANNING AND ECONOMIC DEVELOPMENT 70 TAPLEY STREET SPRINGFIELD, MA 01104

Ship To
RE: DISPOSAL OF CONTENTS OF DRUMS 182 HANCOCK STREET SPRINGFIELD, MA TIGHE & BOND PROJECT #2814353-03 (7100)

JOB#	P.O. NUMBER	Terms	Due Date	Rep
5977	WME-2015-4	Due on receipt	10/6/2015	MJM

Quantity	Item Code	Description	Price Each	Amount
1	DISPOSAL	DISPOSAL OF DRUMS CONTENTS. PER DRUM RATE RECEIVED SEP 15 2016 THANK YOU VERY MUCH. YOUR BUSINESS IS GREATLY APPRECIATED!	1,375.00	1,375.00
Phone #	Fax #	Total		
413-788-2622	413-787-2646	\$1,375.00		

ALL UNPAID BALANCES SHALL INCUR MONTHLY CHARGES AT THE RATE OF ONE AND ONE-HALF(1.5%) AFTER 30 DAYS. IN THE EVENT OF DEFAULT, THE CLIENT AGREES TO PAY COST OF COLLECTION, INCLUDING REASONABLE ATTORNEY'S FEES.

OK Meg
Hilly 5-15-46



City Council

ADOPTED

Meeting: 10/03/16 07:00 PM
Initiator: Kathy Breck
Sponsors: Mayor Domenic J. Sarno
DOC ID: 3675

22

Order Granting a Utility Easement to WMECO/Eversource and Verizon For Balliet Elementary School at 52 Rosewell Street (Mayor Sarno)

WHEREAS, the City of Springfield is in the process of upgrading the electrical service at the Balliet Elementary School located at 52 Rosewell Street, Springfield, MA; and

WHEREAS, in order to perform the upgrade, it is necessary for the City of Springfield ("Grantor") to grant a permanent easement to **Western Massachusetts Electric Company, dba Eversource**, and **Verizon New England, Inc.** (collectively the "Grantee"), on City-owned land at 52 Rosewell Street (City Parcel #017900188), a draft of which is attached hereto as Exhibit #1, for the purpose of supplying electrical service and intelligence distribution systems to the Project, granting:

"the perpetual right to lay, construct, reconstruct, maintain, operate, replace and rebuild on, across, over and under the easement area hereinafter described, electric and transmission of intelligence distribution systems consisting of poles, guys, braces, wires, pipes, cables, conduits, transformers, manholes, anchors, silos, handholes, transformer pads, pedestals, meters, fixtures and other appurtenances useful in providing electric and transmission of intelligence service such as the said company may from time to time see fit to install in said easement area; including wires, cables and conduits running from the poles, transformers and pedestals to any structures erected on the premises; the right to provide electric service by means of the same; and the right to enter said land for the purpose of inspecting; maintaining or removing same; and the right to trim and keep trimmed, cut and remove such trees located within the easement area as in the judgment of the Grantee are necessary to maintain its services."

Said easement area is approximately 303 square feet, located on the Grantor's land on 52 Rosewell Street, and also known as 33 Breckwood Boulevard (City Parcel #017900188), in the City of Springfield, County of Hampden, Commonwealth of Massachusetts, and more particularly shown the plan attached hereto as and made a part hereof, entitled "Exhibit A - Map Showing Easement Area to be Granted to Western Massachusetts Electric Company d/b/a Eversource Energy Across the Property of CITY OF SPRINGFIELD, Rosewell Street, Springfield, MA", Scale: NTS, Date: July 27, 2016, File No. W16092, Heritage Surveys, Inc.", which map has been or will be filed in the office of the Hampden Registry of Deeds. The Map is attached to the draft Easement attached hereto as Exhibit #1.

NOW THEREFORE BE IT ORDERED, that the Mayor be and is hereby authorized in the name of and on behalf of the City of Springfield to take all steps necessary to execute, deliver and record an instrument granting a permanent easement to Western Massachusetts Electric Company and Verizon New England, Inc., in the area described in the above-referenced plan, in substantially the same form as the draft instrument attached hereto as Exhibit #1, for consideration of One Dollar (\$1.00).

Easement is needed for upgrade of electrical service at Balliet Elementary School, at 52 Rosewell Street/33 Breckwood Boulevard (City Parcel #017900188).

RESULT:	ADOPTED [12 TO 0]
AYES:	Hurst, Shea, Twiggs, Allen, Williams, Ramos, Williams, Gomez, Ashe, Edwards, Walsh, Fenton
ABSENT:	Timothy J. Rooke

EXHIBIT #1

Please Return to:
 Rocco Compitello
 Real Estate Department
 Eversource Energy
 107 Selden Street
 Berlin, CT 06037

File No. W16038

EASEMENT

For valuable consideration of One (\$1.00) Dollar, receipt and sufficiency of which is hereby acknowledged, the CITY OF SPRINGFIELD, MASS. (hereinafter referred to as the "Grantor") hereby grants unto WESTERN MASSACHUSETTS ELECTRIC COMPANY D/B/A EVERSOURCE ENERGY, a Massachusetts corporation with offices at 300 Cadwell Street, in the City of Springfield, County of Hampden, Commonwealth of Massachusetts, its successors and assigns, and VERIZON NEW ENGLAND, INC., a New York corporation with a principal office in Massachusetts 185 Franklin Street, Boston, County of Suffolk, Commonwealth of Massachusetts, its successors or assigns, (collectively hereinafter referred to as the "Grantee"), the perpetual right to lay, construct, reconstruct, maintain, operate, replace and rebuild on, across, over and under the easement area hereinafter described, electric and transmission of intelligence distribution systems consisting of poles, guys, braces, wires, pipes, cables, conduits, transformers, manholes, anchors, silos, handholes, transformer pads, pedestals, meters, fixtures and other appurtenances useful in providing electric and transmission of intelligence service such as the said company may from time to time see fit to install in said easement area; including wires, cables and conduits running from the poles, transformers and pedestals to any structures erected on the premises; the right to provide electric service by means of the same; and the right to enter said land for the purpose of inspecting; maintaining or removing same; and the right to trim and keep trimmed, cut and remove such trees located within the easement area as in the judgment of the Grantee are necessary to maintain its services.

Said easement area is located on the Grantor's land on the west side of Rosewell Street on property known as 52 Rosewell Street, and also known as 33 Breckwood Boulevard (City Parcel #017900188), in the City of Springfield, County of Hampden, Commonwealth of Massachusetts, and more particularly shown the plan attached hereto as and made a part hereof, entitled **"Exhibit A Map Showing Easement Area to be Granted to Western Massachusetts Electric Company d/b/a Eversource Energy Across the Property of CITY OF SPRINGFIELD, Rosewell Street, Springfield, MA", Scale: NTS, Date: July 27, 2016, File No. W16092, Heritage Surveys, Inc.** which map has been or will be filed in the office of the Hampden Registry of Deeds.

The Grantor agrees, except with the written permission of the Grantee, that (1) no building, structure, other improvement or obstruction shall be located upon; there shall be no excavation, filling, flooding or grading of; and there shall be no planting of trees or shrubbery upon the easement area; and (2) nothing shall be attached, temporarily or permanently, to any property of the Grantee erected or installed by virtue of this easement. In the event of the damage to or destruction of any of said facilities of the Grantee by the Grantor or agents or employees thereof, all costs of repair or replacement shall be borne by the Grantor.

Any additional poles, guys, wires, cables, braces, conduits and other appurtenances which may be necessary or advisable in the opinion of the Grantee to provide electric service by means of said system are to be located by the Grantee in such places on, upon, under, over and across the easement area as may be reasonable and consistent with the use of said land at the time.

The Grantee, by the acceptance of this easement, agrees that upon request of the Grantor and upon execution and delivery to the Grantee of rights and easements acceptable to the Grantee, it will relocate at the expense of the Grantor any part of said electric distribution systems which the Grantor may reasonably request to be relocated, provided that such relocation is practicable and consistent with sound engineering principles, including any removal and relocation of such system improperly located due to incorrect street and property line locations furnished by the Grantor, the Grantor's agents or employees.

52 Rosewell Street, Springfield, Hampden, Massachusetts

Attachment: Exhibit #1 - Draft Easement; and Exhibit A - Map of Easement (3675 : Order Granting a Utility Easement to WMECO/Eversource and

Please Return to:
 Rocco Compitello
 Real Estate Department
 Eversource Energy
 107 Selden Street
 Berlin, CT 06037

File No. W16038

The Grantee further agrees, by the acceptance of this easement, that as long as and to the extent that the electric distribution systems, together with appurtenances, located on said land pursuant to this easement are used to provide electric service, the Grantee will repair, replace and maintain such facilities at its own expense (except otherwise provided) and in connection with any repair, replacement or maintenance of said system the Grantee shall promptly restore the premises to substantially the same condition as existed prior to such repair, replacement or maintenance, provided, however, that such restorations shall not include any structures, other improvement or plantings made by the Grantor contrary to the provisions herein.

Any rights herein described or granted, or any interest therein or part thereof, may be assigned herein for the transmission of electric purposes, and the Grantor hereby agrees to and ratifies any such assignment and agrees that the interest so assigned may be used by the assignee therein for said purposes.

The words "Grantor" and "Grantee" shall include lessees, heirs, executors, administrators, successors and assigns where the context so requires or permits.

TO HAVE AND TO HOLD the premises unto it, the said Grantee, its successors and assigns, forever.

IN WITNESS WHEREOF, the said Grantor caused _____ hand(s) and seal(s) to be hereunto affixed this _____ day of _____, 2016.

Signed, sealed and delivered
 in the presence of:

CITY OF SPRINGFIELD

 Witness:

 By:
 Its:

Please Return to:
 Rocco Compitello
 Real Estate Department
 Eversource Energy
 107 Selden Street
 Berlin, CT 06037

File No. W16038

ACKNOWLEDGMENT

COMMONWEALTH OF MASSACHUSETTS

S.S. _____

COUNTY OF _____

On this ____ day of _____, 2016, before me, the undersigned notary public, _____ personally appeared and proved to me through satisfactory evidence of identification, which was _____ to be the person whose name is signed on the preceding document and acknowledged to me that such person is [the duly authorized _____ of _____ and that such person signed such document voluntarily as such person's free act and deed for its stated purpose [on behalf of such _____.

IN WITNESS WHEREOF, I hereunto set my hand.

 Notary Public
 My Commission Expires _____

STATE OF _____

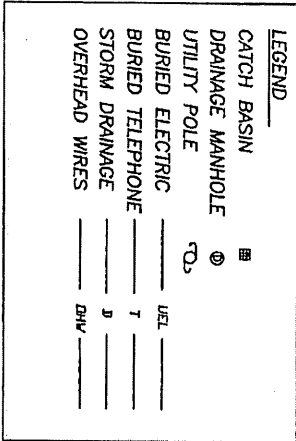
S.S. _____

COUNTY OF _____

On this ____ day of _____, 2016 before me, the undersigned officer, personally appeared _____ who acknowledged him/herself to be the person whose name is subscribed to the within instrument and acknowledged that they, being duly authorized to do so, executed the same for the purposes therein contained as their and said Grantor's free act and deed.

IN WITNESS WHEREOF, I hereunto set my hand and the official seal.

 Notary Public - Seal Required
 My Commission Expires _____



7/27/16
DATE REGISTRATION No. 27814





City Council
36 Court Street
Springfield, MA 01103

Meeting: 10/03/16 07:00 PM
Department: Law
Category: General
Prepared By: Kathy Breck
Initiator: Kathy Breck
Sponsors: Mayor Domenic J. Sarno
DOC ID: 3603 D

TABLED

ORDINANCE (ID # 3603)

Order Amending Code Chapter 110, Animals

See the attachment titled "Amendmentr to Animal Control Ordinance"

Amended by Councilor Edwards seconded Councilor Twiggs

HISTORY:

07/18/16 City Council

FIRST STEP

09/12/16 City Council

REFERRED TO COMMITTEE

Next: 10/03/16

RESULT: FIRST STEP

Next: 10/17/2016 7:00 PM

Summary of proposed changes to Chapter 110

In 2012 Massachusetts passed one of the most comprehensive pieces of animal-related legislation in the state's history, removing and updating laws that had been enacted in the 1800's. While some changes made to Chapter 110 in 2015 updated the city animal ordinances, the current proposed changes will bring local regulations in line with Massachusetts General Laws and allow for a more effective animal control department.

110-1: Defines "animal, livestock" and "feral/homeless cat"; defines "owner" and reduces period of harboring from 10 days to 7 days in accordance with Mass General Law.

110-2: Reduces required age for rabies vaccination from 6 months to 3 months; allows a \$50 fine for an unlicensed dog.

110-5: Additional definitions of prohibited nuisance behaviors and allows fines for such behaviors.

110-6: Increases boarding fee for quarantined animals from \$15 daily to \$22 daily.

110-8: Increases animal care standards and prohibits keeping animals unattended in vehicles.

110-9: Allows a fine for interfering with an Animal Control Officer.

110-13: Allows for appeals for those aggrieved by the actions of an Animal Control Officer.

Chapter 110

ANIMALS

ORD. NO. 3

AN ORDINANCE TO AMEND the Code of the City of Springfield by deleting and repealing Chapter 110 thereof, Animals, and replacing it with a new Chapter 110, to be entitled "Animals", which chapter provides for certain definitions, licenses to be issued by the city, procedures for issuing the licenses, collecting fees, hearings, suspending and revoking licenses and providing penalties for violations of the chapter.

BE IT ORDAINED BY THE COUNCIL OF THE CITY OF SPRINGFIELD AS FOLLOWS: Section

1. The Code of the City of Springfield, is hereby amended by deleting and repealing Chapter 110, Animals.

Section 2. The Code of the City of Springfield, is hereby amended by adding thereto a new chapter, to replace Chapter 110 hereinabove, to be Chapter 110, Animals, to read as follows:

§ 110-1	Definitions.	§ 110-9	Chief Animal Control Officer;
§ 110-2	Licensing and rabies.		Advisory and Hearing Committee.
§ 110-3	Permit for commercial animal establishments.	§ 110-10	Dangerous dogs or other animals.
§ 110-4	License and permit issuance, suspension and revocation.	§ 110-11	Animal waste.
§ 110-5	Restraint and control of animals; public nuisances; barking dogs.	§ 110-12	Wild animals; performing animal exhibitions; animal on school grounds; swine; animals
§ 110-6	Impoundment; violation notices.	§ 110-13	Issuance of citations.
§ 110-7	Sterilization.	§ 110-14	Delegation of responsibilities.
§ 110-8	Animal care standards.	§ 110-15	Enforcement; recordkeeping.
		§ 110-16	Violations and penalties.
		§ 110-17	Payment deadlines and penalties

§ 110-1. Definitions.

As used in this Ordinance, the following terms shall have the following meanings:

ADVISORY AND HEARING COMMITTEE: A committee to be known as the "Animal Advisory and Hearing Committee." The Advisory and Hearing Committee shall be composed of five members: the City Clerk or designee; the Police Commissioner or designee; the President of the City Council or designee; and two persons appointed by the Mayor or designee. All members shall be residents of the City. Committee members shall elect a Chairperson and such other officers as they deem necessary and shall meet monthly or as needed.

ANIMAL: Any live, vertebrate creature, domestic or wild, excluding humans.

ANIMAL CONTROL CENTER: Any facility or shelter operated by or for the City of Springfield, including the Thomas J. O'Connor Animal Control and Adoption Center or its successor, or operated by a humane society, for the purpose of impounding or caring for Animals.

ANIMAL CONTROL OFFICER: Any person designated by the City to enforce this Ordinance or Sections 137 to 174E, inclusive, of Chapter 140 of the Massachusetts General Laws, including but not limited to police officers, special police officers, employees of the Department of Health and Human Services, and agents of the Thomas J. O'Connor Animal Control and Adoption Center or its successor.

ANIMAL, DOMESTIC: Any dog, cat, horse, cow, sheep, goat, pig, domestic fowl, rabbit, guinea pig, ferret, hamster, reptile and any other domesticated Animal.

ANIMAL EXHIBITION: Any display containing one or more Animals which are exposed to public view for entertainment, instruction or advertisement, but excluding circuses, state and county fairs, livestock shows, rodeos, dog and cat shows and competitions, obedience trials and competitions, field trials, and any other fairs and exhibitions intended to advance agricultural arts and sciences.

ANIMAL, LIVESTOCK: Any animal which is ordinarily kept for agricultural purposes and not as pets, such as for the sale or consumption of their meat, eggs, milk, skins, fur, or labor, for profit or otherwise. Livestock animals include, but are not limited to: cattle, horses, swine, sheep, goats, chickens, ducks, geese, and rabbits.

ANIMAL, WILD: Any raccoon, skunk, opossum, squirrel, fox, coyote, turkey, deer, bear, snake, bird or similar Animal wild by nature or found in the wild.

COMMERCIAL ANIMAL ESTABLISHMENT: Any pet shop, shelter, auction, riding school or stable, Zoological Park, circus, Animal Exhibition or Kennel.

DANGEROUS DOG: A dog that either (i) without justification, attacks a person or Domestic Animal causing physical injury or death, or (ii) behaves in a manner that a reasonable person would believe poses an unjustified imminent threat of physical injury or death to a person or to a Domestic Animal.

GROOMING SHOP: A commercial establishment where Animals are bathed, clipped, plucked, or otherwise groomed.

FERAL/HOMELESS CAT: A cat that exists in a feral, homeless, or untamed state, or one that has returned to an untamed state and is no longer considered domesticated, or one that was previously residing in a home as a domesticated cat that has been abandoned by its owner.

KENNEL: A pack or collection of dogs on a single premise, including a commercial boarding or training kennel, commercial breeder kennel, domestic charitable corporation kennel, personal kennel or veterinary kennel, provided however, that a person may keep up to four dogs, all of which are sterilized, or up to three dogs, any of which are unsterilized, without said dogs being considered a Kennel under this Ordinance.

LICENSING AUTHORITY: The City Clerk or his/her designee or Thomas J O'Connor Animal Control and Adoption Center as provided by the laws of the Commonwealth of Massachusetts.

NUISANCE DOG: A dog that (i) by excessive barking or other disturbance, is a source of annoyance to a sick person residing in the vicinity, or (ii) by excessive barking, causing damage or other interference, is disruptive to one's peace and quiet, or (iii) molests or threatens passersby or passing vehicles, or (iv) threatens or attacks Domestic Animals or persons, or (v) trespasses on school grounds or private property, or (vi) is found at large three or more times, as documented by an Animal Control Officer, within a consecutive twelve month period, or (vii) damages public or private property.

OWNER: Any person, firm, corporation or organization owning, keeping, having an interest in, having care, custody or control of, or harboring one or more Animals. An Animal shall be deemed to be harbored if it is fed or sheltered for seven consecutive days or more. If the Owner of an Animal is a minor, the parent(s) or guardian(s) of said minor shall be considered the Owner.

SECURE ENCLOSURE: A Secure Enclosure shall be a minimum of five feet wide, ten feet long, and six feet in height above the grade, with a horizontal top covering said area, all to be at least nine gauge, chain-link fencing with necessary steel supporting posts. The floor shall be at least three inches of poured concrete with the bottom edge of said fencing embedded in the concrete or extending at least one foot below grade. The gate must fit closely and be securely locked or otherwise deemed secured by an Animal Control Officer. If the Secure Enclosure is intended to house a Dangerous Dog or Nuisance Dog, the Owner shall post the Secure Enclosure with a clearly visible warning sign that informs people that there is a Dangerous Dog or Nuisance Dog on the property. The Secure Enclosure must be locked at all times when the dog is unattended by either the Owner or a competent custodian eighteen years of age or older. The enclosure must contain and provide protection from the elements for the dog or other Animals mentioned before and shall comply with MGL c. 272, § 77 and animal standards as detailed in section 110-8 of this chapter.

ZOOLOGICAL PARK: Any facility, other than a pet shop or Kennel, displaying or exhibiting one or more non-Domestic Animals operated by any person, partnership or corporation or any governmental agency in accordance with Massachusetts General Laws.

§ 110-2. Licensing and rabies vaccination.

- A. Each Owner of a dog, cat or ferret that is three months of age or older shall cause such dog, cat or ferret to be vaccinated against rabies by a licensed veterinarian using a licensed vaccine according to the manufacturer's directions, and shall cause such dog, cat or ferret to be revaccinated at intervals recommended by the manufacturer. Unvaccinated dogs, cats or ferrets acquired or moved into the Commonwealth shall be vaccinated within thirty days after the acquisition or arrival of such Animal into the Commonwealth or upon reaching the age of three months, whichever occurs last. It shall be the duty of each veterinarian to complete a certificate of rabies vaccination which shall include, but not be limited to, the following information: the Owner's name and address; a description of the Animal, including breed, sex, age, name and distinctive markings; the date of vaccination; the rabies vaccination tag number; the type of rabies vaccine used; the route of vaccination; the expiration date of the vaccine; and the vaccine lot number. A dog, cat or ferret shall be exempt from rabies vaccination if a veterinarian has examined the Animal and has certified in writing that vaccinating the Animal at that time would endanger the Animal's health because of its age, infirmity, disability, illness or other medical considerations. An Animal exempt under this Section must be vaccinated as soon as its health allows.

B. Dog Licenses.

1. In accordance with Massachusetts General Laws, Chapter 140, Section 137, any dogs aged six (6) months or older, that are kept in the City of Springfield for more than sixty (60) days shall be licensed. The

license application shall include: the name and address of the applicant; a description of the dog; proof of rabies vaccination; or proof of rabies vaccination exemption as defined in part A of this section; and the appropriate fee.

2. Applications for dog licenses shall be made to the Licensing Authority. License applications shall include: the name and address of the applicant; a description of the dog; proof of rabies vaccination or proof of rabies vaccination exemption; and the appropriate fee. The Owner of a dog may add descriptive words, not more than ten in number, upon the license form to indicate the color, breed, weight or special markings of the licensed dog.
3. If not revoked, licenses for the keeping of dogs shall be for a period of one year, running from April 1 to March 31. Reapplication for a license may be made up to thirty days prior to April 1.
4. Application for a license must be made within thirty days after obtaining a dog over six months of age or within thirty days after moving a dog into the City. This requirement will not apply to a nonresident keeping a dog within the City for fewer than sixty days.
5. License fee exemptions:
 - a. A license fee shall not be required for seeing-eye dogs, governmental police dogs or service dogs as defined by the Americans with Disabilities Act or regulations promulgated thereunder.
 - b. A license fee shall not be required for dogs owned by a person aged seventy years or over.
 - c. Persons and entities exempt from paying license fees under this section shall nevertheless apply for a license with the Licensing Authority and cause their dogs to wear tags issued by the Licensing Authority.
6. Upon acceptance of the application and license fee, the Licensing Authority shall issue a durable tag stamped with an identifying number and year of issuance. Tags shall be designed so that they may be conveniently fastened or riveted to the dog's collar or harness
7. No license fee or portion thereof shall be refunded because of the subsequent death, loss, spaying, removal from the City of Springfield or Commonwealth of Massachusetts, or other disposal of the dog.
8. Dogs shall be made to wear both rabies and license tags at all times.
9. The Licensing Authority shall maintain records of the identifying numbers of all tags issued, and shall make these records available to the public.
10. License fees for dogs shall be as follows:
 - a. Unneutered/Unspayed dog: \$25.
 - b. Neutered/Spayed dog: \$5. An applicant for a neutered/spayed dog license shall, as a condition of obtaining such license, produce a certificate from the veterinarian who spayed or neutered the dog, or, if such certificate cannot be obtained, a receipt of a bill from the veterinarian who performed such procedure or a statement signed under the pains and penalties of perjury by a veterinarian registered and practicing in

the Commonwealth describing the dog and stating that the veterinarian has examined the dog, which appears to have been spayed or neutered and incapable of propagation.

c. Dog that has been declared a Dangerous Dog or a Nuisance Dog: \$100.

11. A duplicate license may be obtained upon payment of a replacement fee of \$2.

12. All permitted sources of dogs, including shelters, rescue organizations, pet shops, professional breeders, and veterinarians, operating within the City of Springfield shall notify the Licensing Authority upon the transfer of ownership of any dog. The City Clerk may authorize these permitted sources to register dogs and remit the fees to the City Clerk's office within five days thereafter.

13. All permitted sources administering anti-rabic vaccines to dogs must notify the Licensing Authority upon administering the anti-rabic vaccine to any such dog.

C. Violations.

1. Owners who fail to obtain a license as required within the time period specified in this Section may be fined not more than \$50.00, separate from any licensing fees owed, and the unlicensed dog may be subject to immediate impoundment.
2. No person may use any dog license for a dog other than for the dog for which it was issued. Violators may be fined not more than \$25.00.
3. Any person keeping a dog in the City of Springfield that does not cause such dog to be vaccinated as required by this section against rabies may be fined not more than \$100.00.

§ 110-3. Permits for Commercial Animal Establishments; Kennel

- A. No person, partnership, or corporation shall operate a Commercial Animal Establishment without first obtaining a permit in compliance with this Ordinance. A permit shall not be issued unless the applicant is in compliance with this Ordinance and applicable state law and pays the applicable permit fee.
- B. There shall not be allowed more than three (3) dogs within a single dwelling unit, unless the keeper of such dogs is granted a license to operate a kennel, in accordance with this chapter, unless all animals in the home have been surgically altered. If all animals in the home are surgically altered, four (4) dogs may be kept within a single dwelling unit, without the need to acquire a license to operate a kennel.
- C. Permits for Commercial Animal Establishments shall be for a period of one year, running from April 1 to March 31. Renewal applications may be made up to thirty days prior to April 1. Application for a permit to establish a new Commercial Animal Establishment under the provisions of this Ordinance may be made at any time. Any person, partnership or corporation operating a Commercial Animal Establishment within the City who fails to license the same by April 1 of each year shall pay a penalty of \$100 per month.
- D. The Advisory and Hearing Committee shall promulgate regulations for the issuance of permits, and shall include requirements for humane care of all Animals and for compliance with the provisions of this Ordinance and other applicable laws. The Advisory and Hearing Committee may amend such

regulations from time to time as is deemed desirable for public health and welfare and for the protection of Animals.

- E. If there is a change of ownership of a Commercial Animal Establishment, the new owner may have the current permit transferred to his name upon payment of a transfer fee of \$25.
- F. Annual permits shall be issued upon payment of the applicable fee after inspection by an Animal Control Officer for each:
 - 1. Kennel authorized to house fewer than ten dogs: \$50.
 - 2. Kennel authorized to house ten or more but fewer than fifty dogs: \$100.
 - 3. Kennel authorized to house fifty or more dogs: \$150.
 - 4. Zoological Park: \$100.
 - 5. Circus: \$150.
 - 6. Animal Exhibition: \$100.
 - 7. Grooming Shop: \$50.
 - 8. No fee is required for any: veterinary hospital or clinic, animal shelter or governmentally operated zoological park. Permits will be issued without charge.
- G. Every facility at a different address regulated by this Ordinance shall be considered a separate enterprise and shall require a separate permit.
- H. Operators of Kennels may elect to license dogs individually.
- I. Failure to obtain a permit before opening any facility covered in this Ordinance shall result in a fine of up to \$200.
- J. Any Commercial Animal Establishment which has a change in the category under which a permit was issued shall be subject to reclassification, and appropriate adjustment of the permit fee shall be made.
- K. A dog under the age of six months shall not be counted in determining the number of dogs kept in a Kennel under this Section.

§ 110-4. License and permit issuance, suspension and revocation; illegal kennel

- A. The City or Licensing Authority may revoke any permit or license granted under this Ordinance if the person holding the permit or license refuses or fails to comply with this Ordinance, regulations promulgated by the City or any law governing the protection and keeping of Animals.
- B. Any person whose permit or license is revoked shall, within ten days thereafter, be responsible for the placement or humane disposal of all Animals owned, kept or harbored, and no part of the permit or license fee shall be refunded. Failure to place or humanely dispose of any Animal kept or harbored shall result in a fine of up to \$200 per animal.

- C. It shall be a condition of the issuance of any permit or license that an Animal Control Officer be permitted to inspect all Animals and the premises where Animals are kept at any reasonable time with reasonable notice. If permission for such inspections is refused, such permit or license of the refusing Owner may be refused, suspended or revoked by the Licensing Authority.
- D. If an applicant for a license or permit has withheld or falsified any information on the application, the Licensing Authority may refuse, suspend or revoke such license or permit.
- E. No person who has been convicted of any crime involving cruelty to Animals shall be issued a permit or license of any kind under this Ordinance for a period of five years from the date of conviction.
- F. Any person having been denied a license or permit may reapply after the conditions upon which denial was based have been corrected. Each reapplication shall be accompanied by a fee of \$25.

§ 110-5. Restraint and control of Animals; public nuisances; barking dogs.

- A. All Animals, with the exception of sterilized cats, shall be kept under restraint when in public. Restraint shall mean a leash, lead, or other physical restraint. Dogs must be on a leash not more than six feet long, except in cases where the dog is under voice control of a person, that person has a leash in his possession and the dog is confined in a fenced-in area or pen.
- B. Every owner or keeper of an animal shall exercise proper care and control of their animals to prevent them from becoming a public nuisance. Further, persons who feed or care for wild animals, including feral cats, shall not cause such animals to become a public nuisance. An animal found to be a public nuisance may be impounded by an Animal Control Officer, as set forth in this Chapter. Animal nuisance behaviors include, but are not limited to:
 1. Molesting or attacking persons, animals or vehicles without provocation;
 2. Repeated trespassing on public or private property, including school grounds;
 3. Repeatedly being found at large, outside of confinement or off restraint;
 4. Causing offensive odors through accumulated waste or other reason that is detectable from the public way, any right of way, or adjoining properties;
 5. Allowing an animal which tests positive for a communicable disease (for example, feline leukemia, parvovirus, distemper) to interact with other animals in such a manner as to increase the likelihood of the spread of such disease;
 6. Barking, whining, howling, or other noises natural to such animal's species in an excessive, continuous, or untimely fashion, where such noise is plainly audible at a distance of one hundred (100) feet from the building, premises, or vehicle housing said dog, and such noise is continuous for ten minutes or more, so as to disturb the peace or otherwise be disruptive to any person's quiet enjoyment of property, comfort, or repose;
 7. Obstructing any public way or private way, or distracting drivers upon the public way;

8. Any other circumstances affecting the health or safety or the public or other animals as determined by an Animal Control Officer or the Board of Health.

C. The Owner of a reproductively whole dog or cat over the age of six months found to be at large shall be subject to a fine of \$100 per violation.

1. The Owner of the dog or cat shall have the option of paying this fine of \$100 or, in the alternative, the Owner may, within ten days of the violation, have the dog or cat spayed or neutered. If the Owner elects to have the dog or cat spayed or neutered, the Owner shall present proof of same to the City Clerk in lieu of payment of the fine. The City Clerk, upon receipt of proof that the dog or cat has been spayed or neutered, shall waive the \$100 fine. Proof requires written verification by the veterinarian who performed the sterilization that the dog or cat has been sterilized.
2. If a reproductively whole dog or cat is found to be at large on three occasions, as documented by an Animal Control Officer, the Animal shall be surgically sterilized and microchipped before being returned to the Owner. The Owner shall bear all costs associated with this service and the fine of \$100 shall be imposed.
3. The Chief Animal Control Officer may waive the sterilization requirement if he/she finds that the Animal's health may be endangered by the sterilization procedure (examples include an old Animal or an Animal in poor health).

C. It shall be unlawful for any person owning, keeping, harboring, or possessing any Animals to permit the same to go at large any time within the limits of the City, to the damage or annoyance of any of the residents of the City.

D. In accordance with MGL Chapter 134, Section 2-6, any stray animal found within the City of Springfield shall be reported to and impounded at the Thomas J O'Connor Animal Control and Adoption Center immediately and for the duration of the legally required stray hold.

E. Violations.

1. An owner of an animal covered by this section that allows such animal to become a public nuisance, including but not limited to failure to properly restrain or confine said animal may be fined:
 - a. Not more than \$50.00 for a first offense;
 - b. Not more than \$100.00 for a second offense;
 - c. Not more than \$300.00 for a third or subsequent offense;
 - d. Each day that a violation occurs shall be deemed a separate offense. Following a third offense, any license to keep animals may be revoked, and the offending animal may be impounded.
2. Failure to properly restrain an animal covered by this Section which is found to be reproductively whole shall result in the owner of such animal to be fined an additional \$100.00.

3. Failure to properly restrain an animal covered by this Section which results in such animal entering upon school

property shall result in an additional fine to the owner of such animal an amount not more than \$50.00.

§ 110-6. Impoundment; violation notices.

A. Impoundment.

1. Any Animal found at large or determined to be a public nuisance may be taken by Animal Control Officers, Board of Health agents, or Police Officers and impounded and confined in a humane manner.
2. An Animal Control Officer, Animal Control Center or veterinarian with custody of an impounded or stray Animal shall make a reasonable attempt to contact the Owner of such Animal if the Owner can be identified.
3. An Animal Control Center or veterinarian may, in its sole discretion, administer veterinary care to sick or injured Animals impounded under Section 110-6(A). If the Owner of the Animal can be identified, the Owner shall be responsible for payment of such veterinary expenses.
4. If the Owner of an Animal impounded under Section 110-6(A) has not reclaimed it within seven days of the date of the impoundment, or any lesser minimum period permitted by the General Laws of the Commonwealth, an Animal Control Officer may release the Animal for adoption or humanely euthanize the Animal. If a licensed veterinarian states in writing that the Animal is in significant pain and has no reasonable chance of recovering or having a good quality of life, the Animal may be humanely euthanized at any time. The City shall not be liable for any disposition of Animals in accordance with this section.
5. Except as otherwise provided in this Ordinance, the Owner of any impounded Animal may redeem the Animal, upon payment to the City of the following:
 - a. An impound fee of \$40.00 for each Animal redeemed;
 - b. A boarding fee of \$15.00 per Animal or \$22.00 for bite quarantine or dangerous/nuisance animal, per day;
 - c. All outstanding fines, except for any fine of which a timely appeal is pending;
 - d. All veterinary charges, drugs and other medical expenses;
 - e. The cost of sterilization, if applicable;
 - f. The cost of rabies vaccination, if applicable; and g. The cost of license and registration, if applicable;
 - h. The cost of microchip implantation and registration, if applicable. At the request of the Owner, the Animal Control Center shall provide an itemized list of charges.
 - i. An animal which has been seized following a bite or other violent incident shall be quarantined and confined from contact with persons or other animals for not less than ten (10) days:

1. In the home of the owner of the animal if owner proves that the animal has been vaccinated for rabies;

2. In an animal control center if the owner is unable to prove that the animal has been vaccinated for rabies and/or the owner of the animal is unable to manage or confine the animal in interest of public safety

§ 110-7. Sterilization.

The Thomas J. O'Connor Animal Control and Adoption Center shall not release a dog or cat for adoption without first sterilizing the dog or cat, except where a veterinarian states in writing that sterilization would place the dog or cat at considerable risk due to poor health.

§ 110-8. Animal care standards.

A. Owners shall provide each of their animals with sufficient good and wholesome food and water, proper shelter, protection from the weather; veterinary care when needed to prevent suffering, and otherwise humane care and treatment.

B. A person owning or keeping a dog may confine such dog outside, subject to the restrictions in this section, through the use of any of the following methods:

1. inside a pen, if the following conditions are met:
 - a. the pen shall have adequate space for exercise with a dimension of at least one hundred square feet; provided, however, that commercial dog kennels with pens intended for the temporary boarding of dogs shall be exempt from this requirement;
 - b. the pen is constructed with chain link or other similar material as determined by the Building Inspector, with all sides enclosed;
 - c. the minimum height of the fence shall be adequate to successfully confine the dog;
2. a fully fenced, electronically fenced or otherwise securely enclosed yard, wherein a dog has the ability to run but is unable to leave the enclosed yard; or
3. a trolley system or a tether attached to a pulley in a cable run, if the following conditions are met:
 - a. only one dog shall be tethered to each cable run;
 - b. the tether shall be attached to a properly fitting collar or harness worn by the dog, with enough room to fit two adult fingers between the collar and the dog's throat; provided, however, that a choke collar or pinch collar shall not be used to tether a dog to a cable run;
 - c. there shall be a swivel on at least one end of the tether to minimize tangling of the tether;
 - d. the tether and cable run must each be at least ten feet in length. The cable must be mounted

at least four feet but not more than seven feet above ground level; and

- e. the length of the tether from the cable run to the dog's collar or harness shall allow continuous access to clean water and appropriate shelter at all times as described in section 110-8(C);
- f. the tether system shall be of appropriate configuration to confine the dog to the Owner's property, to prevent the trolley system or tether from extending over an object to an edge that could result in injury to or strangulation of the dog and to prevent the trolley system or tether from becoming tangled with other objects or animals.
- g. No person shall tether a dog for more than eight (8) out of every twenty-four (24) hours. No dog under the age of six (6) months shall be tethered outside for any length of time.

C. A person owning or keeping a dog confined outside in accordance with this Ordinance shall provide the dog with access to clean water and appropriate dog shelter. The dog shelter shall allow the dog to remain dry and protected from the elements and shall be fully enclosed on at least three sides, roofed and have a solid floor and be sufficiently insulated and ventilated to protect the dog from exposure to extreme temperatures. The entrance to the shelter shall be flexible to allow the dog's entry and exit, and sturdy enough to block entry of weather elements. The shelter shall contain clean bedding and shall be small enough to retain the dog's body heat and large enough to allow the dog to stand, lie down and turn comfortably. The enclosure shall be structurally sound and in good repair. Suitable drainage shall be provided so that water, ice or waste is not standing in or around the shelter.

D. No person shall keep or place an animal in a location that would cause an unreasonable risk of injury or death to the Animal or subject them to "cruel conditions" which shall include, but not be limited to, the following.

- 1. leaving an Animal unattended in a stationary or parked car shall be prima facie evidence of keeping an Animal in a location that causes an unreasonable risk of injury or death. The above stated officials may use reasonable force to remove the Animal from the vehicle, including, but not limited to, breaking the windows of the vehicle.
- 2. filthy and dirty confinement conditions including, but not limited to, exposure to excessive animal waste, garbage, dirty water, noxious odors, dangerous objects that could injure or kill an Animal upon contact or other circumstances that could cause harm to a Animal's physical or emotional health;
- 3. extreme weather, including but not limited to times when a heat or cold advisory is in effect and times when an extreme weather advisory has been issued for the area; and
- 4. taunting, prodding, hitting, harassing, threatening or otherwise harming a tethered or confined dog.

E. No person shall beat, cruelly treat, torment, overload, overwork, or otherwise abuse an Animal, or cause, instigate or permit any dog fight, cock fight, or bullfight, or any other combat between Animals or between Animals and humans.

F. If an Animal is found to be in a location that causes an unreasonable risk to the animal, an Animal Control Officer or a Police Officer may use reasonable force to remove the animal from the dangerous situation and impound said animal as necessary.

- G. A person who violates this section shall, for a first offense, be issued a written warning or punished by a fine of not more than \$50, for a second offense, be punished by a fine of not more than \$100 and for a third or subsequent offense, be punished by a fine of not more than \$300, and be subject to impoundment of the dog in a local shelter at the Owner's expense pending compliance with this section, or loss of ownership of the dog.

§ 110-9. Chief Animal Control Officer; Animal Control Officers; Advisory and Hearing Committee.

- A. The City, through the Mayor or designee, shall appoint a Chief Animal Control Officer, whose primary responsibilities shall include the enforcement and implementation of this Ordinance or any rules and regulations promulgated thereunder. The Chief Animal Control Officer shall be responsible for coordinating and administering the City's animal control activities in accordance with any goals, policies, and procedures established by the Springfield City Council or Department of Health and Human Services, and shall be under the direction and supervision of the Mayor.
- B. No person shall interfere with, molest, hinder or abuse an Animal Control Officer in the exercise of official duties. A person who violates this section shall be fined not less than \$100.00.
- C. Advisory and Hearing Committee. The Advisory and Hearing Committee shall have the power to:
1. meet monthly or at such times as the Chairperson or a majority of the Committee deems necessary;
 2. study, review and issue written reports on issues dealing with dogs or other Animals in the City;
 3. make recommendations to the Mayor and the City Council for the improvement of Ordinances of the City as they relate to dogs and other Animals in the City;
 4. impose fines for violations of this Ordinance and set the amount of fines where not specifically provided by this Ordinance, provided however, that no fine imposed under this Ordinance shall exceed \$300 per violation;
 5. hold hearings to determine whether a dog is a Dangerous Dog or a Nuisance Dog, and to review orders to destroy; and
 6. make rules and regulations, not inconsistent with this Ordinance and state and federal law, for the efficient and orderly conduct of their business and the control and care of Animals in the City.

§ 110-10. Dangerous Dogs and Nuisance Dogs

- A. Any person may file a complaint in writing to the Advisory and Hearing Committee within 30 days of incident occurrence that a dog owned or kept in the City is a Nuisance Dog or a Dangerous Dog. To consider declaring a dog a Nuisance Dog or a Dangerous Dog, an Animal Control Officer of the City may initiate a special hearing before the Advisory and Hearing Committee to consider any evidence collected and take charge of and impound the Animal. The Animal Control Center shall notify the Owner of the dog by certified letter, or Sheriff's Department hand delivery of such special hearing, and the Owner may attend and have an opportunity to be heard. Special hearings

under this Section shall be public meetings under the laws of the Commonwealth of Massachusetts. At this special hearing, the Advisory and Hearing Committee will determine whether to declare such dog a Nuisance Dog or a Dangerous Dog, based on the facts presented and the definition of the terms "Dangerous Dog" and "Nuisance Dog" in Section 110-1. If the dog is declared a Nuisance Dog or Dangerous Dog, the City Clerk shall notify the abutter(s) next door and across the street by regular mail and in the classified section of the local newspaper (i.e., Animals: dogs and cats section) of such finding at the Owner's sole expense. No dog shall be declared a Dangerous Dog:

1. Solely based upon growling or barking;
2. based upon the breed of the dog; or
3. if the dog was reacting to another Animal or to a person and the dog's reaction was not grossly disproportionate to any of the following circumstances:
 - a. the dog was protecting or defending itself, its offspring, another Animal or a person from assault or attack;
 - b. the person who was attacked or threatened by the dog was committing a crime upon the person or property of the Owner of the dog;
 - c. the person who was attacked or threatened by the dog was engaged in teasing, tormenting, battering, assaulting, injuring or otherwise provoking the dog; or
 - d. at the time of the attack or threat, the person or Animal that was attacked or threatened by the dog had breached an enclosure or structure in which the dog was kept apart from the public and such person or Animal was not authorized by the Owner of the premises to be within such enclosure including but not limited to a gated, fenced-in area if the gate was closed, whether locked or unlocked; provided however that if a person is under the age of seven, it shall be a rebuttable presumption that such person was not committing a crime, provoking the dog or trespassing.

B. Dogs declared to be Nuisance Dogs or Dangerous Dogs.

1. If the Advisory and Hearing Committee deems a dog to be a Nuisance Dog or a Dangerous Dog, the Committee may order one or more of the following:
 - a. that the dog be humanely restrained;
 - b. that the dog be confined to the premises of the Owner of the dog; provided, however, that "confined" shall mean securely confined indoors or confined outdoors in a securely enclosed and locked pen or dog run area upon the premises of the Owner; provided however, that such confinement shall comply with Section 110-8 of this Ordinance;
 - c. that whenever the dog is removed from the premises of the Owner, the dog shall be securely and humanely muzzled and restrained with a leash having a minimum tensile strength of three hundred pounds and not exceeding three feet in length;
 - d. that the animal shall be surgically sterilized and microchipped with the microchip registered to the City, with all costs associated with these services to be borne by the Owner;

- e. that the Owner construct, within two weeks from the date of decision, a Secure Enclosure to house the dog when it is in the Owner's yard. The Advisory and Hearing Committee may order that, during the construction period, the dog be publicly impounded at an animal shelter or a private veterinary hospital until the Secure Enclosure is constructed. The effectiveness of the Secure Enclosure shall be subject to approval and periodic inspections by an Animal Control Officer, as deemed necessary. The fee for said inspection shall be \$75. If the Owner is found violating the Secure Enclosure requirements, immediate public impoundment of the dog shall be done by the Animal Control Center during the time the violation continues to exist, and the Owner shall bear all cost(s) for such public impoundment. The fine for such violation shall be \$200 per day;
 - f. that ownership of the dog may not be transferred unless the transfer of ownership is to an adult residing within the same residence and said dog shall remain housed solely at that residence;
 - g. that, if the Owner of the dog fails to appear at a hearing in front of the Advisory and Hearing Committee and the dog is declared a Dangerous Dog, the dog shall be impounded and/or euthanized; and/or
 - h. that the dog be humanely euthanized, immediately, or summarily upon the Owner's failure to comply with conditions imposed by the Advisory and Hearing Committee.
 - i. Any other order that the Hearing Committee deems appropriate or necessary to protect the public the public from the dangerous or nuisance dog.
- C. If a dog which has been found to be a nuisance dog or dangerous dog has no additional incidences of nuisance or dangerous behavior within a thirty-six (36) month period from the date of decision, the dog shall be removed from the list of nuisance and dangerous dogs. An owner of a nuisance or dangerous dog can request in writing to the Hearing Committee that the dog be removed from the list of nuisance or dangerous dogs prior to the expiration of the thirty-six (36) month period. The Hearing Committee may, but is not required to, remove a designation of nuisance or dangerousness if they are satisfied that there has been a change of circumstances or measures taken by the owner, such as training, that have mitigated the risk to public safety.
- D. Any and all costs for the impounding of a Dangerous Dog will be borne by the Owner unless determined otherwise by the Advisory and Hearing Committee or court of final appeal. An Owner reclaiming a Dangerous Dog shall pay an administrative fee of \$40, plus the following costs, where applicable:
- 1. a boarding fee of \$22 per dog, per day;
 - 2. all outstanding fines, except for any fine for which a timely appeal is pending;
 - 3. all veterinary charges, drug and other medical expenses;
 - 4. the cost of sterilization;
 - 5. the cost of rabies vaccinations;
 - 6. the cost of license and registration; and

7. the cost of microchip implantation and registration; and
8. the cost of euthanasia and disposal.

§ 110-11. Animal waste.

- A. The Owner or person in possession of any Animal shall be responsible for the removal of any fecal matter deposited by such Animal(s) on public walks, recreation areas or private property.
- B. The Owner or person in possession of any Animal on any public walk, street, recreation area or private property, shall possess the means of removal of any fecal matter left by such Animal.
- C. For the purpose of this section, the means of removal shall include any tool, implement or other device carried for the purpose of picking up or containing such fecal matter.
- D. Any Owner or person in possession of an Animal who fails to comply with the provisions of this section shall be subject to a fine in the amount of \$50 for the first offense, \$100 for the second offense, and \$300 for the third and subsequent offenses.

§ 110-12. Wild Animals; Livestock Animals.

- A. No person shall keep or permit to be kept on his premises any wild, wild-domestic hybrid, or vicious animal as a pet, for display, or for exhibition purposes. This section shall not be construed to apply to zoological parks, animal exhibitions, circuses, or approved Trap-Neuter-Return programs, as defined in this Chapter.
- B. No person shall provide food or sustenance to wild animals, including unsterilized feral, stray, or community cats, in such a manner that would cause a public health or safety risk, or cause a nuisance as defined in this Chapter.
- C. An Animal Control Officer may remove any animals kept in violation of this section and either release such animal into its natural habitat or place it in a suitable facility.
- D. No person shall keep any livestock animals on their property except as otherwise allowed by Springfield Zoning Ordinance or state law. An Animal Control Officer may seize and impound any animals kept in violation of this Section or Springfield Zoning Ordinance, as defined by this Chapter and place it in a suitable facility.
- E. Violations.
 1. Any person who keeps, feeds, or shelters an animal in violation of this section shall be subject to a fine of not more than:
 - a. \$50.00 for the first violation;
 - b. \$100.00 for the second violation; and
 - c. \$300.00 for the third or subsequent violations.

§ 110-13. Warnings; Notices of Violation; Issuance of Citations; Appeals.

- A. Animal Control Officers shall be authorized to issue warnings, notices of violations, orders, citations, fines, and penalties for violations of this Chapter.
- B. A warning or notice of violations shall be construed to be an order of the City of Springfield to comply with this Chapter or the laws and regulations of the state of Massachusetts. Repeated failure to comply with such orders is grounds for revocation of any licenses or permits granted under this Chapter and or impoundment of any animals owned or kept.
- C. The Animal Control Officer may seek enforcement of orders, citations, fines and penalties for violations of this Chapter either through application for a criminal complaint or by seeking a non-criminal disposition in the Springfield District Court.
- D. Fines, Fees, Charges.
 - 1. A citation, fine or penalty may be issued by the Animal Control Officer for violations of this Chapter with or without a written warning or notice of violation, including for a first offense.
 - 2. All fines, fees, and charges under this Chapter shall be due and payable twenty-one (21) calendar days from the date printed on the citation, notice or bill. In the absence of a citation, notice or bill, fines, fees and charges issued under this Chapter shall be due and payable within twenty-one (21) calendar days of the date of service or violation.
 - 3. Failure to pay any fine, fee or charge within twenty-one (21) calendar days shall result in an additional late fee of \$25.00 for each individual fine, fee or charge.
 - 4. Persons who are assessed fines, fees or charges shall make payment to the Licensing Authority.
 - 5. Outstanding fines, fees or charges and associated late fees shall become a municipal lien against the property of the person issued the fine, fee or charge, in accordance with the provisions of Massachusetts General Laws, Chapter 40, Section 58. Further, no license under this Chapter shall be issued unless all outstanding fines, fees or charges and associated late fees have been paid in full.
- E. Appeals.
 - 1. A person aggrieved by an action or decision of the Animal Control Officer or the Hearing Committee may appeal to the Springfield District Court by making application within twenty-one (21) days of the decision, ticket, or notice of violation.



City Council
36 Court Street
Springfield, MA 01103

SCHEDULED

ORDINANCE (ID # 3674)

Meeting: 10/03/16 07:00 PM
Department: City Council
Category: Local Law
Prepared By: Tasheena Davis
Initiator: Tasheena Davis
Sponsors: At-Large Councilor Williams, President Fenton
DOC ID: 3674

Order Amending Code Chapter 418, the Preservation of Historically Significant Buildings

AMENDING CHAPTER 418 OF THE REVISED ORDINANCES OF THE CITY OF SPRINGFIELD, 1986, AS AMENDED, BY AMENDING SECTION 3 THEREOF

ORD. NO. ____

Be it ordained by the Council of the City of Springfield, as follows:

Section 3 of Chapter 418, The Preservation of Historically Significant Buildings, of the Code of the City of Springfield, is hereby amended by adding subsection E:

E. No municipal department shall use general funds, grant funds, or bond funds to demolish a Preferably Preserved building without approval of the use of such funds by the City Council.

Approved as to form:

Associate City Solicitor

RESULT: FIRST STEP

Next: 10/17/2016 7:00 PM



City Council
36 Court Street
Springfield, MA 01103

Meeting: 10/03/16 07:00 PM
Department: City Clerk
Category: General
Prepared By: Anthony I. Wilson
Initiator: Anthony I. Wilson
Sponsors: At Large Councilor Hurst, Ward 5 Councilor Williams
DOC ID: 3654

TABLED

ORDINANCE (ID # 3654)

Article VII of Chapter 279: Mobile Food Trucks

AN ORDINANCE (A LOCAL LAW) TO AMEND the Code of the City of Springfield, Chapter 279 thereof, by adding Article VII as follows:

Purpose.

The general goal of this ordinance is to provide designated space in downtown Springfield for food truck vendors to operate on a regular basis. Overall, food trucks would encourage greater foot traffic in the downtown area, and would benefit employees and visitors who frequent the downtown/metro center area of Springfield by providing a variety of food selections, during lunch hours. Further, food vendors with a permit would be able to operate in the designated area without utilizing existing parking or metered spaces, and all other vendors who do not purchase a permit can continue to operate on their regular route pursuant to the existing ordinances.

Definitions.

When used in this section, unless the context otherwise requires, the following terms shall have the following meanings:

Downtown Area shall mean the area of the City of Springfield whose western boundary is East Columbus Avenue, whose eastern boundary Chestnut Street, whose northern boundary is Liberty Street and whose southern boundary is Union Street.

Food establishment shall mean a business operation that stores, prepares, packages, serves, vends or otherwise provides food for human consumption as set forth in the State Sanitary Code 105 CMR 590.002.

Mobile food commissary shall mean a licensed food establishment that a mobile food truck reports to twice daily for all food and supplies and for all cleaning and sanitizing of units and equipment.

Mobile food truck shall mean a food establishment that is located upon a vehicle, or which is pulled by a vehicle, where food or beverage is cooked, prepared and served for individual portion service, such as a mobile food kitchen.

Scope.

- a. The provisions of this section shall apply to any person or other legally recognized entity engaged in the business of cooking, preparing, and distributing food or beverage with or without charge from mobile food trucks in Downtown Area between the hours 10:00 antemeridian and 6:00 postmeridian.

- b. The provisions of this section shall not apply to canteen, coffee, or ice cream trucks that move from place to place and are stationary in the same location for no more than thirty (30) minutes at a time or food vending push carts and stands.
- c. The provisions of this section shall not apply to mobile food trucks that operate outside of the Downtown Area or outside of the times of day referenced in subsection A of this Section.
- d. The provisions of this section shall not apply to mobile food operations that receive a temporary event permit issued by the Health and Human Services Department.

Mobile Food Truck Permit Required.

- a. No person or business entity, including a religious or charitable organization, shall operate a mobile food truck as described in section 40 without a permit issued by the Springfield Parking Authority.
- b. A permit shall be valid from April first (1st) to October thirtieth (30th) of a given year.

Application for a Mobile Food Truck Permit.

- a. *Single Application.* There shall be made available by the Springfield Parking Authority a single application form to apply for each mobile food truck permit. The application shall provide the following:
 - 1. A description of necessary inspections and fees;
 - 2. A description of areas of the City where the operation of mobile food trucks are limited or prohibited;
- b. *Submission of Materials.* Each application shall indicate on its face, in addition to other requirements as may be determined by the Springfield Parking Authority, that the following materials must be submitted by the applicant:
 - 1. The name of the business and its owner or owners and the mailing address of the business,
 - 2. A description of the proposed business plan for the mobile food truck operation,
 - 3. A proposed location where the mobile food truck will be stationary and serving food,
 - 4. Certification that the vehicle has passed all necessary inspections required by the Springfield Fire Department and, Health and Human Services Department,
 - 5. Proof that the mobile food truck will be serviced by a mobile food commissary,
 - 7. A certificate of insurance providing general liability insurance listing the City as additionally insured. A food truck permit shall be issued only for the explicit time period covered by the effective dates of the general liability insurance policy.

c. *Approval Process.* An application must be submitted to the Springfield Parking Authority;

1. Within sixty (60) days of the submission of a completed application, the Springfield Parking Authority shall either issue or deny the application for a permit. Any application not acted on within sixty (60) days shall be deemed denied.
2. If the application is denied in whole or in part, the Springfield Parking Authority shall state the specific reasons for the denial. The decision shall be final and subject only to judicial review under M.G.L. c. 30A, § 14.

~~Limitation on the Number of Permits.~~

~~There shall be no more than ten (10) permits granted pursuant to this chapter. The permits shall be issued in the following manner:~~

- a. ~~Two (2) permits may be issued for the parking spaces located at Riverfront Park~~
- b. ~~One (1) permit may be issued a parking space on Main Street between Boland Way and Bridge Street~~
- c. ~~Seven (7) permits may be issued for parking spaces along Elm Street.~~

~~Permit Renewal.~~

- a. ~~Every mobile food truck permit, unless suspended or revoked by the Parking Authority for a violation of any provision of this section or other rule or regulation promulgated for the implementation of this section, shall be renewed annually given that a renewal fee is paid prior to April first (1st) of a given year.~~
- b. ~~The Springfield Parking Authority reserves the right to add, remove, and reapportion available locations among mobile food truck operations at renewal.~~

~~Rules and Regulations.~~

- a. *General.* ~~The Springfield Parking Authority is hereby authorized to promulgate, additional rules and regulations appropriate for the implementation of this section, and, if necessary, work with other agencies and departments of the City and State to establish a streamlined process for the permitting of mobile food trucks; provided, however, that~~

~~such rules and regulations are not inconsistent with the following limitations and restrictions:~~

- ~~1. No operator of a mobile food truck shall park, stand, or move a vehicle and conduct business within areas of the City where the permit holder has not been authorized to operate;~~
 - ~~2. No permit holder shall possess a permit for a mobile food truck that is not in operation for a period of more than fourteen (14) days without duly notifying and obtaining approval from the Springfield Parking Authority.~~
 - ~~3. The issuance of a permit does not grant or entitle the exclusive use of the service route, in whole or in part, to the mobile food truck permit holder, other than the time and place as approved for the term of the permit;~~
 - ~~4. No mobile food truck shall provide or allow any dining area, including but not limited to tables, chairs, booths, bar stools, benches, and standup counters, unless a proposal for such seating arrangements is submitted with the permit application and approved by Springfield Parking Authority.~~
 - ~~5. Consumers shall be provided with single service articles, such as plastic forks and paper plates, and a waste container for their disposal. All mobile food trucks shall offer a waste container for public use that the operator shall empty at his own expense.~~
 - ~~6. The permit holder must keep an accurate log indicating that the mobile food truck is serviced at least twice daily by a mobile food commissary for all food, water and supplies and for all cleaning and servicing operations, including the emptying and cleaning of waste containers.~~
 - ~~7. No mobile food truck shall make or cause to be made any unreasonable or excessive noise in violation of Chapter 259 of the Revised Ordinances of the City of Springfield.~~
 - ~~8. All mobile food trucks must be equipped with a permanently mounted global positioning system (GPS) device that meets rules and regulations established by the Committee or its members.~~
 - ~~9. For mobile food trucks on public property, the City reserves the right to temporarily move a mobile food truck to a nearby location if the approved location needs to be used for emergency purposes, snow removal, construction, or other public benefit.~~
- ~~b. *Inspectional Services.* The Health and Human Services Department shall ensure compliance with the State Sanitary Code 105 CMR 590.~~

Application Fee.

- ~~a. *Application Fee.* The application fee for a permit or a renewal of a permit granted by the Committee for the operation of a mobile food truck shall be twelve hundred (\$1200.00) dollars.~~

Prohibition Against the Transfer of a Permit.

- ~~a. *Transfers for Value Prohibited.* No person holding a permit for a mobile food truck shall sell, lend, lease or in any manner transfer a mobile food truck permit for value.~~
- ~~b. *Nonvalue Transfers as Part of the Sale of a Business.* Notwithstanding subsection 279-10, a permit holder may transfer a permit as part of the sale of a majority of the stock in a corporation holding such permit, as part of the sale of a majority of the membership interests of a limited liability company holding such permit, or as part of the sale of a business or substantially all of its assets; provided that there shall be no allocated or actual value for the transfer of the permit.~~
- ~~1. Prior to any such transfer, the transferor shall notify the Springfield Parking Authority in writing and the transferee shall submit a food truck permit application for approval to the Authority pursuant to the process set forth in subsection 279-5 and any additional rules and regulations promulgated by the Authority.~~
 - ~~2. Any such transfer shall be subject to the terms and conditions of the original permit.~~
- ~~c. *Unauthorized Transfer Voids Permit.* Any unauthorized transfer or attempt to transfer a permit shall automatically void such permit. Whoever violates this provision, including both the transferor and transferee, shall be subject to a fine of three hundred (\$300.00) dollars, pursuant to section 279-5(a). The unauthorized transfer or attempt to transfer of each permit shall constitute a separate violation.~~

Operation of Mobile Food Trucks.

- ~~a. *Operation Without Permit.* Any mobile food truck being operated in the Downtown Area, during the times described in section 40, without a valid mobile food truck permit issued by the Springfield Parking Authority shall be deemed a public safety hazard and may be ticketed and impounded.~~
- ~~b. *Unattended Vehicles Prohibited.* No mobile food truck shall be parked on the street overnight, or left unattended and unsecured at any time food is kept in the mobile food truck. Any mobile food truck which is found to be unattended shall be considered a public safety hazard and may be ticketed and impounded.~~

Enforcement.

- ~~a. *Fine for Violation.* Any permit holder operating a mobile food truck or service in violation of any provision of this section or any rules and regulations promulgated by the Springfield Parking Authority may be subject to a fine of three hundred (\$300.00) dollars per day. Each day of violation shall constitute a separate and distinct offense. The provisions of G.L. c. 40, s. 21D may be used to enforce this section.~~
- ~~b. *Revocation, Suspension, Modification.* Once a permit has been issued it may be revoked, suspended, modified, or not renewed by the Springfield Parking Authority for failure to comply with the provisions of this section or any rules and regulations promulgated by the Authority.~~
- ~~c. *Removal.* Any permit holder found in violation of this section or any rules and regulations promulgated by the Springfield Parking Authority may be issued a ticket for violation and the mobile food vehicle may be impounded.~~
- ~~d. *Enforcement.* The provisions of this section or any rules and regulations promulgated by the Parking Authority may be enforced jointly by the Springfield Police Department and the Springfield Health and Human Services Department.~~

Severability.

~~If any provision of this section is held to be invalid by a court of competent jurisdiction, then such provision shall be considered separately and apart from the remaining provisions, which shall remain in full force and effect.~~

HISTORY:

09/12/16 City Council
Next: 10/03/16

REFERRED TO COMMITTEE

RESULT:

REFERRED TO COMMITTEE

Next: 10/17/2016 7:00 PM



City Council
36 Court Street
Springfield, MA 01103

Meeting: 10/03/16 07:00 PM
Department: Law
Category: General
Prepared By: Kathy Breck
Initiator: Thomas Moore
Sponsors: Ward 3 Councilor Melvin A. Edwards
DOC ID: 3652

ADOPTED

ORDINANCE 2016-8

Order Amending Code Chapter 213, Health and Sanitation, To Add Article II, Freshwater Fish Consumption Advisory

AN ORDER AMENDING CHAPTER 213 OF THE REVISED ORDINANCES OF THE CITY OF SPRINGFIELD, 1986, AS AMENDED, BY ADDING ARTICLE II THEREOF:

ORD. NO. ____

Be it ordained by the City Council of the City of Springfield, as follows:

Chapter 213 of the Code of the City of Springfield, is hereby amended by adding Article II, Freshwater Fish Consumption, including Sections 213-2 through 213-8 as follows:

ARTICLE II: Freshwater Fish Consumption Advisory

§213-2 Purpose and Intent

Due to the high levels of mercury found in freshwater fish in Massachusetts, the Massachusetts Department of Public Health has established guidelines for the safe consumption of freshwater fish caught in bodies of water in Massachusetts. Specifically, these safe eating guidelines advise that pregnant women, women who may become pregnant, nursing mothers, and children under the age of twelve, should not eat any freshwater fish caught in the streams, rivers, lakes, and ponds in Massachusetts.

The purpose of this ordinance is to require the City of Springfield to construct and maintain signs informing the public of the Massachusetts Department of Public Health's blanket advisory regarding the high levels of mercury in the state's freshwater fish. The signs will advise the public that women of childbearing age and children under the age of twelve should not consume any freshwater fish caught in the streams, rivers, lakes, and ponds in Massachusetts. These warning signs are necessary to promote the public health and safety of the citizens of the City of Springfield through increased awareness of this mercury contamination.

§213-3 Definitions

3.1 "Bodies of water" refers to any lake, pond, river, stream, tributary, brook, creek, but is not exclusive to the above list.

(i) "Private body of water" refers to any body of water owned by private citizens or companies.

(ii) "Public body of water" refers to any body of water owned by the City of Springfield.

3.2 "Damage/Destruction by natural causes" refers to any damage or destruction caused by weather, natural disaster, deterioration such as rust, damage caused by felled trees, or any other natural wear and tear. This is not an exclusive list. Damage by natural causes does not include any man-made damage to the signs.

3.3 "Established entrance" refers to any commonly used access point and/or highly traveled path to the body of water.

3.4 "Freshwater fish" are species of fish that spend a period of time in their lifecycle including reproductive cycle in rivers, streams, lakes and ponds. Species include but are not limited to: Atlantic Salmon, Black Crappie, Bluegill, Brook Trout, Brown Trout, Catfish, Chain Pickerel, Common Dace, Lake Trout, Largemouth Bass, Muskellunge, Northern Pike, Pumpkinseed, Rainbow Trout, Smallmouth Bass, White Crappie, and Yellow Perch.

3.5 "Man-made damages" refers to any damage or destruction not naturally caused, including, but not limited to, vandalism.

3.6 "Mercury" is a heavy metal element that in high levels can be toxic to humans.

(i) "Mercury contamination" refers to levels of mercury deemed to be hazardous to life by the Massachusetts Department of Public Health.

§213-4 Regulations

4.1 Warning signs shall be constructed, erected, and maintained in accordance with this ordinance, at every public body of water in the City of Springfield.

4.2 The signs shall be located at every established entrance to a body of water, or within (twenty) feet of the body of water's banks, placed in highly visible areas.

4.3 Each sign shall state, "WARNING - Women of childbearing age, and children under the age of twelve, should avoid consumption of the freshwater fish in these waters due to high levels of mercury and other contaminants." Each signs shall be bilingual; posted in English and Spanish.

4.4 To ensure uniformity of the signs throughout the City of Springfield, the signs shall be in conformance to the type, size, style, color, material, placement, and any other specifications mandated by other applicable City of Springfield ordinances or other binding legal authority.

4.5 The City of Springfield shall be responsible for any and all fees to install and maintain all signs erected in accordance with this ordinance.

§213-5 Exemptions

5.1 Bodies of water privately owned within the City of Springfield limits are exempted from this ordinance, however, are still encouraged to comply. Privately owned bodies of water in compliance with section 3.1 to 3.4 of this ordinance shall have all sign construction and maintenance fees paid for by the City of Springfield per section 3.5 of this ordinance.

5.2 Freshwater fish that are stocked in lakes, ponds, rivers, streams, tributaries, brooks, or creeks in Massachusetts are deemed safe to consume and thus exempted from this ordinance.

5.3 Any public body of water within the City of Springfield that is tested by the Massachusetts

Department of Public Health and found to have safe levels of mercury contaminants for all freshwater fish shall be deemed exempt from this ordinance.

(i) If deemed safe under the section 4.3 exemption, testing must be done every (two years) to maintain exempt status.

5.4 Any public body of water within the City of Springfield that is tested by the Massachusetts Department of Public Health and found to have safe levels of mercury contaminants for some or certain species of freshwater fish, signs shall be amended, as per section 4.5, at said body of water in accordance with the new guidelines.

5.5 Every (two years) signs constructed under this ordinance shall be reviewed for their accuracy, and amended in accordance with section 4.4.

§213-6 Administration and Enforcement

6.1 The City of Springfield shall designate a specific department within the city to construct and maintain these signs.

6.2 The City of Springfield Board on Signs shall approve or disapprove each notice received by the City, relative to an application for the location of a sign.

6.3 Signs constructed in accordance with this ordinance, which are damaged or destroyed through natural causes shall be the responsibility of the department assigned to maintenance by the City of Springfield. The department responsible for maintenance of the damaged sign shall have the authority to recover the costs of replacing the sign from the City of Springfield.

6.4 Signs constructed in accordance with this ordinance, which are damaged or destroyed by man-made causes shall be the responsibility of the person who is found to have caused the damages. Any such person found to be responsible for damage or destruction of any sign constructed through this ordinance shall pay

to the City of Springfield all of the costs for such damage or destruction, including, but not limited to, costs for sign removal and replacement. Failure to pay for damage or destruction may result in legal action against the responsible party for all costs, such as court costs and reasonable attorney fees.

§213-7 Effective Date

This ordinance will take effect on (TBD).

§213-8 Severability

Each separate provision of this ordinance shall be deemed independent of all other provisions herein, and if any provision of this section be declared invalid by a court of competent jurisdiction, the remaining provisions of this section shall remain valid and enforceable.

HISTORY:

09/12/16 City Council FIRST STEP

RESULT:	SECOND & THIRD STEPS [11 TO 0]
MOVER:	Melvin A. Edwards, Ward 3 Councilor
AYES:	Hurst, Shea, Twiggs, Williams, Ramos, Williams, Gomez, Ashe, Edwards, Walsh, Fenton
ABSENT:	Timothy C. Allen, Timothy J. Rooke



City Council
36 Court Street
Springfield, MA 01103

Meeting: 10/03/16 07:00 PM
Department: Law
Category: Local Law
Prepared By: Thomas Moore
Initiator: Thomas Moore
Sponsors: Ward 3 Councilor Edwards, Ward 7 Councilor Allen
DOC ID: 3650

TABLED

ORDINANCE (ID # 3650)

Amending Ordinance Chapter 82 by Amending Article V and Repealing Article IV

Please see attached materials

Please see attached materials

RESULT:

REFERRED TO COMMITTEE

Next: 10/17/2016 7:00 PM

AMENDING CHAPTER 82, ARTICLE V OF THE REVISED ORDINANCES OF THE CITY OF SPRINGFIELD, AS AMENDED, BY DELETING ARTICLE IV, AND BY DELETING THE PREVIOUS VERSION OF CHAPTER 82, ARTICLE V, AND INSERTING NEW CHAPTER 82, ARTICLE V IN ITS PLACE.

CHAPTER 82, ARTICLE IV of the Revised Ordinances of the City of Springfield, as amended, is hereby deleted in its entirety.

CHAPTER 82, ARTICLE V of the Revised Ordinances of the City of Springfield, as amended, is hereby deleted in its entirety and replaced with a new Chapter 82, Article V hereto as follows:

Chapter 82, Article V: Responsible Employer Ordinance
Public Construction Contracts

§82-44 PURPOSE AND PREAMBLE

§82-45 DEFINITIONS

§82-46 CONTRACTOR RESPONSIBILITY AND COMPLIANCE OF
CONTRACTORS AND SUBCONTRACTORS

§82-47 COMPLIANCE WAIVER

§82-48 MONITORING COMMITTEE RESPONSIBILITY

§82-49 MONITORING COMMITTEE REVIEW

§82-50 PENALTIES AND ENFORCEMENT

§82-51 PRIORITY OF ORDINANCE

§82-52 SEVERABILITY

§82-44 Purpose and Preamble. Due to the City of Springfield's high level of unemployment, diversified workforce demographics, and large minority population, the residents of Springfield, veterans, and a diversity of people qualified by craft, should be part of and benefit from public construction projects in the city of Springfield. Therefore, it is appropriate for the city of Springfield to require that each public construction project, as defined herein, include employment opportunities for Springfield residents, minorities and women through compliance with the ordinance codified in this chapter. Further, the City finds and determines that taxpayer money is most efficiently and productively spent by awarding construction contracts to firms that include and enforce provisions requiring compliance with state laws governing the payment of prevailing wages, the

provision of workers compensation coverage, and the proper classification of individuals as employees and not as independent contractors, as well as provisions concerning state-certified apprenticeship programs. The City Council hereby further finds and determines that it is appropriate for it to exercise entrepreneurial discretion by requiring firms that are awarded such contracts to comply with this ordinance because a failure to comply is injurious to the life, health and happiness of individuals employed by such firms and is deleterious to the quality of life in the City where most of such individuals reside.

WHEREAS, on _____ the City of Springfield passed Ordinance Chapter 82, Article V for the purpose of setting forth certain procurement standards for public works construction contracts; and

WHEREAS, since the enactment of Ordinance No. _____, the City of Springfield has engaged in further review and consideration of the contracting, which has highlighted the need to re-examine and further revise these contracting guidelines to better ensure they serve their intended purpose, comport with applicable federal and state law, and serve the best interests of Springfield ; and

WHEREAS, the City of Springfield, like many state and localities across the U.S., faces critical infrastructure needs that are substantial in scope and that must be addressed, which will require the City of Springfield to plan, manage and oversee major capital investments in both the short and long term; and

WHEREAS, the City of Springfield recognizes that the planning and execution of such public works projects involves the exercise of essential police powers to protect and promote public health, safety and welfare, and constitutes one of the most important obligations Springfield has to its citizens because such projects require substantial taxpayer investments and are necessary to the effective performance of vital government functions; and

WHEREAS, to properly effectuate this use of police powers and protect its financial investments and proprietary interests in these projects, the City of Springfield must utilize effective contracting and procurement procedures, including clearly defined, pre-established evaluation criteria, to ensure the selection of qualified, reputable contractors and properly trained and skilled workers who share the City of Springfield's commitment to safety, quality, time, and budgetary concerns; and

WHEREAS, securing successful delivery of public works projects is extremely difficult due to the unique, complex, unpredictable and inherently dangerous nature of the construction industry, wherein errors in project planning or execution can result in serious health and safety risks to project workers and/or the general public, unnecessary cost overruns, flawed or inferior projects, and disruptions in schedules that delay the use of critical government facilities; and

WHEREAS, due to the importance of public works projects, and the fact that they are financed by taxes paid by local residents, the City of Springfield wishes to ensure that such projects are performed only by "responsible" contractors and subcontractors, which must be reputable business entities that have: (a) a satisfactory record of past performance, including compliance with applicable laws and industry regulations; and (b) adequate present performance capabilities, including expertise, personnel and other resources needed to successfully perform projects in a safe, timely and cost-effective manner; and

WHEREAS, effective contracting procedures, designed to ensure that contractors and subcontractors are qualified, responsible firms, must recognize unique challenges affecting construction project delivery, including the following: (a) the construction industry is a highly mobile, transient industry which requires strict scrutiny of a firm's past performance, as well as its current capabilities; (b) construction is an inherently dangerous industry that requires contractors, subcontractors and their employees to be properly trained in safety techniques and procedures; and (c) construction, which is a highly skilled, labor intensive industry, is facing increasingly difficult challenges in ensuring that there is an adequate pipeline of properly trained, qualified workers available for future projects, and such

conditions pose major risks to the planning and execution future capital construction projects; and

WHEREAS, leading organizations in the construction industry, including trade associations representing project owners such as the Construction Users Roundtable, have repeatedly issued strong recommendations to parties purchasing construction services for large capital projects that, due to challenges relating to the supply of skilled craft personnel, contractors and subcontractors should be pre-qualified on the basis of craft labor training to protect the project owner's financial and proprietary interests by ensuring that such firms have an adequate supply of trained, skilled craft personnel to perform their projects; *Confronting the Skilled Workforce Shortage*, Construction Users Roundtable (June 2004); Construction Users Roundtable, *Skilled Labor Shortage Risk Mitigation*, WP-1101, January 2015; and

WHEREAS, in seeking to ensure the adequate development of trained, skilled personnel for the construction industry, as well as other industries, the United States Congress passed the Fitzgerald Act, Pub. L. No. 75-308, 50 Stat. 664, H.R. REP. No. 75-945, which created a system in which workers could be properly trained in construction skills and safety procedures through organized, formal apprenticeship training programs that meet established quality, safety and performance standards and that such programs are approved and monitored by the U.S. Department of Labor and state labor agencies, including the Massachusetts Division of Apprenticeship Standards; and a recent report issued by the federal government stresses the need to expand industry apprenticeship programs as a means of building the pool of skilled labor, especially in the construction industry, U.S. Dep'ts of Labor, Commerce, Education, and Health and Human Resources, *What Works in Job Training: A Synthesis of the Evidence* 8 (July 22, 2014), and

WHEREAS, the City of Springfield understands that the highest levels of safety and quality of work on public works projects will be maintained by ensuring that all contractors and subcontractors participate in bona fide, industry-recognized apprenticeship training programs with a proven record of success, and that such programs which are registered with and approved by the federal or state labor agencies, including the Massachusetts Division of

Apprentice Standards, in accordance with regulations issued pursuant to the Fitzgerald Act, provide the most effective, time-tested means for craft labor personnel needed for a project meet appropriate education, skill and safety standards; and

WHEREAS, the courts have recognized that states and local cities seeking to exercise legitimate police powers and/or acting to protect substantial proprietary interests, have the right to adopt procurement, licensing and economic development legislation and/or to impose contract bid specifications designed to ensure the performance capabilities of prospective contractors and subcontractors and their employees, including apprenticeship training requirements and other craft labor qualifications; see *Bldg. & Const. Trades Council of the Metro. Dist. v. Assoc. Builders & Contractors of Mass./R.I., Inc.*, 507 U.S. 218 (1993); *Associated Builders & Contractors v. Mich. Dep't of Labor & Econ. Growth*, 543 F.3d 275 (6th Cir. 2008); *Hotel Employees & Restaurant Emps. Union, Local 57 v. Sage Hospitality Res., LLC*, 390 F.3d 206 (3rd Cir. 2004); and

WHEREAS, the City of Springfield also recognizes that ensuring adequate workforce development in the local construction industry is critical not only for its more immediate project needs but for future project planning, and that effective workforce development in the local construction industry requires adequate lead time, planning and resources, and that the City of Springfield can protect its proprietary interests by promoting greater use of craft labor training programs in the local construction industry, including apprenticeship and pre-apprenticeship programs, as such efforts will help produce a more reliable supply of trained craft workers to meet future project needs, while simultaneously reducing local unemployment and associated costs of government subsidy programs required for employed workers and their families; and

WHEREAS, the City of Springfield wishes to revise its procurement standards for public works construction contracts to address these findings and considerations, prevent and limit construction project delivery risks associated with these conditions and better ensure the success of these projects; now, therefore,

§82-45 Definitions. For the purpose of this chapter the words set out in this section shall have the following meanings:

A. "Springfield resident" means any person for whom the principal place of residence is within the City of Springfield during the entirety of time the person works on a public construction project within the City of Springfield. Proof of such residence may include, but is not limited to, the following: a valid Massachusetts driver's license indicating a Springfield residence, utility bills, proof of voter registration within the city of Springfield, a copy of a residential lease for a dwelling in Springfield with the person named as lessee, or such other proof acceptable to the monitoring committee. Any person who provides false information regarding his or her residence shall be subject to a fine of no more than three hundred dollars.

B. "Minority" means:

1. African-American - All persons having origins in any of the Black racial groups of Africa, including, but not limited to, African-Americans, and all persons having origins in any of the original peoples of the Cape Verdean Islands.
2. Hispanic - All persons having their origins in any of the Spanish-speaking peoples of Mexico, Puerto Rico, Cuba, Central or South America, or the Caribbean Islands.
3. Asian American - All persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian sub-continent, or the Pacific Islands, including, but not limited to China, Japan, Korea, Samoa, India, and the Philippine Islands;
4. American Indian or Native American - All persons having origins in any of the original peoples of North America and who are recognized as an Indian by a tribe or tribal organization; or

5. Eskimo or Aleut - All persons having origins in f the peoples of Northern Canada, Greenland, Alaska, and Eastern Siberia.

C. "Public construction" means a project or a contract for a project, or sub-contract thereunder awarded by the City of Springfield for projects subject to M.G.L. c. 149 sec 44A(2); M.G.L. c. 149A and M.G.L. c. 30 sec 39M. All projects which cost less than two hundred and fifty thousand dollars (\$250,000.00) for contractors or which cost less than twenty-five thousand dollars (\$25,000.00) for sub-contractors, and all projects undertaken by any regional commission or board to which the City of Springfield is not the sole signatory, are exempt from this chapter.

D. "Contractor" means all persons, corporations, agencies, firms, businesses, developers, bidders, proposers, trade contractors, installers, subcontractors, and sub-subcontractors, for projects defined herein as public construction, except so-called design services pursuant to Massachusetts General Laws Chapter 7C, Section 44.

F. "Bidding authority" means the city department or agency assigned or directly responsible for the bidding of public construction.

G. "Springfield public construction employment certification form" means the form which must be submitted by the contractor with any and all bids for public construction requiring, that as a condition for bidding, the contractor agrees to comply with the requirements contained in this ordinance if awarded the contract. Such form may be from time to time amended by the monitoring committee to suit the purpose and intent of this chapter.

H. "Springfield public construction employee reporting form" means the form which must be submitted by the successful contractor to the bidding authority no later than thirty (30) days before commencement of work under the contract. Such form shall list Springfield residents, minorities, and women that have been contacted and confirmed to be employed by the contractor. Such submitted forms shall be delivered to the monitoring committee, and may be from time to time amended by the

monitoring committee to suit the purpose and intent of this chapter. Contractors are responsible for providing this form to all subcontractors, sub-subcontractors, and installers that have been hired to perform work in furtherance of a public construction project. This form is required to be submitted by all trade contractors, subcontractors, sub-subcontractors, and installers performing work in furtherance of a public construction project.

I. "Springfield public construction employment tracking system" means a physical or electronic system (other than a handwritten sign-in sheet) maintained by the contractor keeping track on a weekly basis of the employees that are working on the project for the entire duration of their work on the project. The records from this tracking system shall be submitted to compliance officer or his/her designee, and shall be made available for inspection by the monitoring committee. The monitoring committee shall develop the standards for the tracking system to be utilized on a project which, at minimum, shall require tracking of the following information: name of each employee; city or town and state of residence of each employee and length of residence; minority status and gender of each employee, apprentice or journey worker status of each employee; craft of each employee; job category of each employee; hours worked on a daily basis of each employee; hourly wage of each employee; company for which each employee is employed; and total number of hours worked by the contractor's employees, by craft, during the reporting period. Contractors are responsible for providing this form to all trade contractors, subcontractors, sub-subcontractors, and installers that have been hired to perform work in furtherance of a public construction project. This form is required to be submitted by all subcontractors, sub-subcontractors, and installers performing work in furtherance of a public construction project.

J. "Monitoring committee decision on compliance with this chapter" means the form used by the monitoring committee to render decisions on submittals of the Springfield public construction employee reporting form and employment tracking system records.

K. "Springfield Responsible Employer Ordinance monitoring committee". Herein known as "monitoring committee." This

chapter, its enforcement, and compliance with its requirements shall be monitored by the monitoring committee. The monitoring committee shall be comprised of five (5) individuals including the following and each shall serve at the discretion of his or her appointing authority:

1. Two appointees of the city council;
2. Three appointees of the mayor. Initially, one (1) appointment by the mayor and one (1) appointment by the city council shall serve for one (1) year. Except as noted herein all appointments made in accordance with this chapter shall serve for two (2) year terms. Such terms may be sooner terminated, with or without cause, by the appointing authority named herein. All action by the monitoring committee shall be by majority vote of a quorum of the then appointed members. A quorum shall be no less than three (3) members.

L. "Bid" means any bid, proposal, or quote rendered by a contractor to the City or to another Contractor for the performance of work on a public construction project as defined herein. (As enacted on 07/27/2009)

M. "Veteran" shall mean a person who has served in any branch of the United States Armed Forces, and was not dishonorably discharged.

§82-46 Contractor Responsibility and Compliance of Contractors and subcontractors. A. All bidders, contractors and all subcontractors under the contractor for public construction projects as defined herein subject to M.G.L. Ch. 149, Sec. 44A(2), or M.G.L. Ch. 30, Sec. 39M and M.G.L. 149A shall, as a condition for bidding, agree in writing that they shall comply with the following:

1. The Contractor or proposer and all trade contractors and subcontractors under the Contractor shall comply with the Springfield Responsible Employer Ordinance as it currently exists and as it may, from time to time, be amended. The Contractor or proposer shall be responsible for reporting to the City when any subcontractor or installer has been hired for the project, and whether the subcontractor cannot achieve compliance with the Responsible Employer Ordinance and

needs to request a waiver. At the time a subcontractor is hired, the contractor shall be responsible for providing each subcontractor with the Springfield Public Construction Employee Reporting Form, the Weekly Oath form, the Weekly Employment Tracking System form, and the Subcontractor's Agreement to Comply with Responsible Employer Ordinance, and for the subcontractor's submission of said forms to the City Compliance Officer.

2. All bidders, contractors, proposers and all trade contractors and subcontractors under the contractor who are awarded contracts or who otherwise obtain contracts on public construction projects as defined herein, subject to M.G.L. Ch. 149, Sec. 44A(2), MGL CH. 30, Sec. 39M or M.G.L. Ch. 149A, shall comply with the provisions of this ordinance for the duration of their work on the project, and an officer of each such contractor or subcontractor shall certify under oath and in writing on a weekly basis that they are in compliance with said ordinance.

3. All contracts subject to this Ordinance shall provide that a violation of the requirements of this Ordinance shall be a material breach of said contract.

B. On public construction projects as defined herein, the contractor and all trade contractors and subcontractors shall comply with the following requirements and such requirements are incorporated by reference into the bid specifications:

1. In accordance with this chapter, the contractor shall be required to provide employment in the amount of thirty-five percent (35%) minimum per craft of the total project hours worked by Massachusetts residents employed by the contractor, to Springfield residents qualified by craft.

2. The contractor shall be required to provide employment in the amount of twenty percent (20%) minimum per craft of the total project hours worked by the contractor, to minorities qualified by craft.

3. The contractor shall be required to provide employment in the amount of six and 9/10 percent (6.9%) minimum per craft of the total project hours worked by the contractor, to women qualified by craft.

4. The contractor shall be required to provide employment in the amount of five percent (5.0%) minimum per craft of the total project hours worked by the contractor, to veterans qualified by craft.

5. The contractor shall be required to complete and submit the Springfield construction employment certification form, with any and all bids for public construction. This form will be included in the bid specifications. Failure of the contractor to submit such form shall be cause for rejection of the bid.

6. The contractor who has been awarded a contract for public construction by the bidding authority shall complete the Springfield construction employee reporting form and submit the same to the bidding authority and monitoring committee no later than thirty (30) calendar days before commencement of work under the contract. Contractors are responsible for providing this form to all subcontractors, sub-subcontractors, and installers that have been hired to perform work in furtherance of a public construction project. This form is required to be submitted by all trade contractors, subcontractors, sub-subcontractors, and installers performing work in furtherance of a public construction project as defined herein.

7. All contractors who are awarded, or otherwise obtain a public construction contract subject to this ordinance, shall maintain a weekly Springfield public construction employee tracking system as defined in this Ordinance, keeping track on a weekly basis of the contractors' employees that are working on the project for the entire duration of the of their work on the project. Such records from this tracking system shall be submitted weekly to the Springfield compliance officer or his/her designee and the monitoring committee, and shall be submitted with certified payroll records. This form is required to be submitted by all trade contractors, subcontractors, sub-subcontractors, and installers performing work in furtherance of a public construction project. (As enacted on 07/27/2009)

8. The bidder, contractor, proposer and all trade contractors and subcontractors under the contractor shall certify in writing that their employees shall be able to

work in harmony with employees of all other subcontractors on the job site. "Harmony" shall be defined to mean that the presence of any contractor or subcontractor employees shall not result in any picket line, work stoppage or any other form of labor demonstrated on the job site or labor organizations representing the trades and/or crafts of the employees on the job sites.

9. The Contractor or proposer, and all trade contractors and subcontractors under the contractor shall properly classify employees employed on the project as employees rather than independent contractors and shall properly classify said employees accordingly for purposes of workers' compensation insurance coverage, employment taxes, social security taxes and income tax withholding pursuant to M.G.L. Ch. 149.

10. The contractor and all trade contractors and subcontractors under the contractor must at the time of bidding maintain or participate in a bona fide apprentice training program as defined by M.G.L. c.23, §§11H and 11I for each apprenticeable trade or occupation represented in their workforce that is approved by the Division of Apprentice Standards of the Department of Labor and Workforce Development, regardless of whether or not the program qualifies as an employee welfare benefit plan under ERISA, and must register all apprentices with the Division and abide by the apprentice to journeyman ratio for each trade prescribed therein in the performance of any work on the project. This ordinance does not require the program to be an ERISA plan; the program need only have been approved by the Division of Apprenticeship Standards.

Note: All general bidders, contractors, or proposers and all trade contractors and sub-bidders at every tier must submit with its bid or proposal an original, stamped Sponsor Verification letter from the Commonwealth of Massachusetts, Department of Labor and Workforce Development - Division of Apprentice Standards, issued within the past ninety (90) calendar days, evidencing that at the time of submitting a bid or proposal, the bidder or proposer is currently an Approved Sponsor of Apprentices. Any bid or proposal submitted without the above documentation shall be rejected.

§82-47 Compliance waiver.

The contractor or subcontractor may submit with the Springfield public construction employee reporting form a request for a full or partial waiver. Such waiver shall be based on the fact that there is an insufficient pool of qualified persons available in the required craft(s). The contractor must provide documentation with the request regarding its efforts to hire Springfield residents, minorities, women, veterans, and/or apprentices who are qualified by craft. Such documentation shall include evidence of efforts conducted by the developer, contractor and subcontractors which shows a high level of effort in attempting to obtain said employees. Such effort shall include, but not be limited to, advertising employment opportunities in minority and other local and community news media; notifying women and other community-based organizations of employment opportunities; notifying local career center(s) of employment opportunities; maintaining a file of each worker referred to the Contractor and what action was taken concerning such worker; and soliciting local companies for contracting purposes. If a contractor has a collective bargaining agreement with a union which has failed to refer a Springfield resident, minority, or woman worker, the contractor must provide a letter from the union documenting that it cannot supply the requisite employee. Provisions of this chapter may be waived in whole or in part, on a case by case basis, through a determination made by the monitoring committee. The monitoring committee or single sole representative appointed by the monitoring committee, shall respond to the request for such waiver within fourteen (14) business days of the receipt thereof. In the event no response is forthcoming within the fourteen (14) business day time period, waiver shall be deemed to have been approved. No waiver requests shall be heard or allowed where the underlying portion of or trade work within the construction project related to the waiver request has been completed. (As enacted on 07/27/2009)

§82-48 Monitoring Committee responsibility.

Such committee shall meet on a bi-weekly basis, or as needed, and shall review and monitor all information and

documentation provided by all parties (including by not limited to contractors) to establish compliance with this chapter. If through such monitoring, it is determined that one or more contractors are not complying with this chapter, the committee shall immediately notify the city compliance officer. The monitoring committee shall act on all requests for compliance waivers under this Ordinance. The committee shall draft and accept all forms that are necessary for compliance with this chapter. (As enacted on 07/27/2009)

§82-49 Monitoring Committee Review.

A. The monitoring committee shall regularly review the Weekly Oath form(s), the Weekly Springfield public construction employment tracking system form(s), and any other forms required under this Ordinance as the monitoring committee deems necessary from time to time, as submitted by contractors, sub-contractors, and/or sub-subcontractors to the bidding authority pursuant to this Ordinance. The monitoring committee shall be responsible for carrying out the review provisions of this chapter.

B. The monitoring committee shall make decisions as cited below with the following criteria:

1. Ensure that the contractor and all subcontractors have completed the Springfield public construction employee reporting form.
2. The information provided must show compliance with minimum employment requirements cited in this Ordinance, or demonstrate that the contractor, subcontractor, or sub-subcontractor has submitted sufficient information to approve a full or partial waiver under the provisions of Section 82-47 above.
3. The contractor shall have received commitments from Springfield residents, minorities, and women, in accordance with the Springfield construction employee reporting form.

C. The monitoring committee shall file a final decision with the city compliance officer within fourteen (14) business days of receipt of the information as cited in this section. Such decision shall also be forwarded to the bidding authority and sent by registered or certified mail to the petitioning contractors and subcontractors who have

been reviewed for compliance. Such decision shall be in the manner of the form titled "Springfield construction employment monitoring committee decision on compliance with the Springfield Responsible Employer Ordinance." Within fourteen (14) business days of receipt of a final decision from the monitoring committee that finds non-compliance with this Ordinance, the City shall send written notice to the non-compliant party, stating therein the enforcement actions to be taken under Section 82-50 below, if any. (As enacted on 07/27/2009)

§82-50 Penalties and Enforcement.

A. In accord with the provisions of M.G.L. ordinance 40, Sections 21D and 31 as well as every other authority and power that may have been or may hereafter be conferred upon it, the city may enforce the provisions of this ordinance, restrain violations thereof, and seek injunctions and judgments to secure compliance. Without limiting the generality of the foregoing, in the event a contractor or subcontractor fails to comply with any one of the requirements in this ordinance, for any period of time, upon three days written notice to the violator, the city may take any or all of the following actions:

1. Assessment of a fine of three hundred dollars (\$300.00) per day of violation, or the maximum amount allowed by law whichever is greater, against the contractor or subcontractor who violates this chapter. Any fine imposed which is not paid in full by the violator shall be offset by the city of Springfield against any payment due to the contractor under any contract for the project, to the extent allowed by law;
2. Cease-and-desist order against any contractor or subcontractor to stop the project;
3. Withholding of payment due under any contract until compliance is obtained; and
4. Permanent removal from any work on the project.

B. In the event that a contractor fails to comply with the harmony clause in Section 4.15.030 B(7), the City may assess against the contractor those costs incurred by the City or the contractor to provide security which may or may not be in the form of police details, security fences,

establishment of separate gates, lost work days for every employee who is prevented from working on the job site by the establishment of picket lines, work stoppage or other labor demonstrations.

C. Contractors, subcontractors, sub-subcontractors, bidders and proposers shall be equally liable for violations of this Ordinance by subcontractors hired to perform work under the Contractor in furtherance of a public construction project as defined herein, with the exception of violations arising from work performed pursuant to subcontracts that are subject to M.G.L. c.149, §44F. Any contractor or subcontractor that has been determined by the City or by any court or agency to have violated any of the obligations set forth in this Chapter shall be barred from performing any work on any future projects for six months for a first violation, three years for a second violation and permanently for a third violation. (As enacted on 07/27/2009)

§82-51 Priority of Ordinance.

Where this law or any selection of employees thereto conflicts with other laws relating to affirmative action hiring requirements as set forth by federal, state or local laws, those laws shall supersede this chapter. (As enacted on 07/27/2009)

§82-52 Severability.

In the event any section of this chapter is deemed illegal, unenforceable or unconstitutional, then the remaining sections shall remain in full force and effect. (As enacted on 07/27/2009)

Approved as to form,

Associate City Solicitor



City Council
36 Court Street
Springfield, MA 01103

Meeting: 10/03/16 07:00 PM
Department: City Council
Category: Council Request
Prepared By: Kelley Mickiewicz
Initiator: Kateri B. Walsh
Sponsors: Williams, Williams, Gomez
DOC ID: 3663

ADOPTED

RESOLUTION 2016-1

Resolution Against Lifting the Cap on Commonwealth Charter Schools

CITY OF SPRINGFIELD

October 3, 2016

- WHEREAS,** free public schools available to all students regardless of income, ability, need or English language proficiency are foundational to our democracy, and
- WHEREAS,** all of our students deserve high quality public schools that teach the whole child, providing enrichment and addressing social and emotional needs in addition to core academic subjects, and
- WHEREAS,** local accountability of our public schools is necessary to ensure that schools are responsive to the needs of their communities, and
- WHEREAS,** the Springfield Public Schools and the City of Springfield are losing \$42 million to Commonwealth charter schools and public school districts across the state are losing more than \$408 million this year alone - a loss of funds that is undermining the ability of districts to provide all students with the educational services to which they are entitled, and
- WHEREAS,** Commonwealth charter schools are often approved over the objections of a majority of community residents and their elected officials and are not accountable to local elected officials once they are approved, and
- WHEREAS,** Commonwealth charter schools often fail to serve the same proportion of special needs students, low-income students and English language learners as the districts from which they receive students and often use high suspension rates to drive out students they don't want to serve, and
- WHEREAS,** the Commonwealth charter school system is creating separate and unequal opportunities for success, and
- WHEREAS,** lifting the cap on charter schools would greatly worsen the problems listed above and lead to a costly and divisive two-track school system,

NOW, THEREFORE, BE IT RESOLVED that the Springfield City Council opposes lifting the cap on Commonwealth charter schools and urges a Vote No on Question 2.

RESULT:	ADOPTED [10 TO 2]
MOVER:	Bud L. Williams, At-Large Councilor
SECONDER:	Marcus J Williams, Ward 5 Councilor
AYES:	Hurst, Allen, Williams, Ramos, Williams, Gomez, Ashe, Edwards, Walsh, Fenton
NAYS:	Kenneth E. Shea, E. Henry Twiggs
ABSENT:	Timothy J. Rooke