

# Martha's Vineyard Joint Transportation Committee

c/o Martha's Vineyard Commission, Box 1447, Oak Bluffs, 02557  
508-693-3453 [info@mvcommission.org](mailto:info@mvcommission.org) [www.mvcommission.org](http://www.mvcommission.org)

## Notice of Meeting Joint Transportation Committee

Date: Wednesday, August 19<sup>th</sup>, 2020 9:30 a.m.

Place: **Martha's Vineyard Commission**  
**33 New York Avenue, Oak Bluffs, MA 02557**

**DRAFT**

1. Call to Order and Introductions
2. Public Comments
3. Minutes of June 17<sup>th</sup>, 2020 Meeting
4. Communications
  - A. Shared Streets & Spaces Program Funding
  - B. July Traffic Comparisons from Permanent Count Stations
5. Reports
  - A. Vineyard Transit Authority (VTA)
  - B. Bicycle and Pedestrian Advisory Committee (BPAC)
  - C. Steamship Authority (SSA): Letter to SSA regarding JTC membership
6. New Business
  - A. Northeastern Capstone Project: North Tisbury Bridge to Old Stage Road Final Design
7. Old Business
  - A. MassDOT Traffic Counting Program
8. Other Business
  - A. Community Local Technical Assistance Studies
  - B. Regional Concerns and Local Community Transportation Issues
9. Adjournment
  - A. Next Scheduled Meeting: Wednesday, September 16<sup>th</sup>, 2020 @ 9:30 AM

The MVC JTC fully complies with Title VI of the Civil Rights Act of 1964 and related statutes and regulations in all programs and activities. The MVC JTC operates without regard to race, color, national origin, English Proficiency, ancestry, creed, income, gender, age, and/ or disability. Any person who believes him/herself or any specific class of persons, to be subject to discrimination prohibited by Title VI may by him/herself or by representative file a written complaint with MassDOT. Complaints are to be filed no later than 180 days from the date of the alleged discrimination. To file a complaint with MassDOT please see the website:  
<https://www.massdot.state.ma.us/OfficeofCivilRights/TitleVI/FileAComplaint.aspx>.

# Martha's Vineyard Joint Transportation Committee

c/o Martha's Vineyard Commission, Box 1447, Oak Bluffs, 02557 508-693-3453

## **DRAFT - Minutes of the Meeting of June 17<sup>th</sup>, 2020**

Held at the MVC Offices, 33 New York Avenue, Oak Bluffs, MA 02557

### **In Attendance**

#### **JTC Voting Members**

Angie Gompert, VTA  
Adam Turner, MVC  
Peter Cook, Chilmark  
Jen Rand, West Tisbury  
Tristan Israel, County of Dukes County  
Kirk Metell, Tisbury

#### **Ex-officio Members**

Derek Shooster, MassDOT Boston  
Pam Haznar, MassDOT District 5  
Simon Shapiro, MV Bike & Ped Committee  
Barbara Lachance, MassDOT District 5

#### **Others in Attendance**

Bill Veno, MVC Senior Planner  
Dan Doyle, MVC Special Projects Planner  
Mike Mauro, MVC Transportation Program Manager  
Christine Flynn, MVC Economic Development and Housing

1 **1. Welcome and Introductions:**

2 Mr. Mauro called the meeting to order at 9:31 a.m.

3  
4 **2. Public Comments:**

5 There were no comments made by the public.

6  
7 **3. Minutes of the May 27<sup>th</sup>, 2020 Meeting:**

8 Mr. Turner made a motion to approve the minutes as submitted. Mr. Cook seconded the motion. The  
9 minutes of the May 27<sup>th</sup> JTC meeting were unanimously approved.

10  
11 **4. Communications:**

12 **A. Regional Planning Agency (RPA) PL Formula Subcommittee:**

13 Mr. Mauro reported that a subcommittee was formed to evaluate the PL Formula which is  
14 used to allocate and distribute funds to the 13 Regional Planning Agencies throughout the  
15 Commonwealth. Ms. Haznar reported that the committee will use total population as a  
16 weighted factor but will also consider seasonal population for those regions such as  
17 Nantucket, Cape Cod, and Martha's Vineyard. Mr. Mauro stated that the intent of this process  
18 is to determine if there is a need to consider any changes to the formula. This process is in  
19 fact, supported and applauded by FHWA who encourages periodic examination of the  
20 distribution formula even if the outcome remains status quo. No formula will be implemented  
21 until it is fully vetted through TMG and MARPA. This effort is building the foundation to support  
22 discussions with our state and federal partners regarding funding distributions in order to  
23 continue in a fair and transparent process. No matter the outcome, these formulas need to  
24 be reexamined periodically to ensure they continue work for the planning process both  
25 regionally and throughout the commonwealth.

29 **B. Shared Streets and Spaces Program:**

30 Mr. Mauro reported on a new grant program called: Shared Streets and Spaces. With the  
31 ever-growing expansion of outdoor spaces for people during the COVID-19 pandemic, a new  
32 grant program has been established to assist communities offset any loss as soon as possible.  
33 The intent of the program is to assist cities and towns to make changes to their streetscapes  
34 in response to the Covid-19 public health crisis. The program is a quick launch/quick build  
35 grant program providing grants as small as \$5,000 and as large as \$300,000 to expand  
36 improvements to sidewalks, curbs, streets, on-street parking spaces and off-street parking  
37 lots in support of public health, safe mobility, and renewed commerce in their  
38 communities. Ms. Haznar strongly encouraged the municipalities to apply. Mr. Shooster  
39 reminded the group that although the MVC will be more than happy to assist you in your efforts  
40 the ask needs to come directly from the municipality itself.

41  
42 Mr. Veno provided several projects that the towns have discussed in the past or are about to  
43 actively pursue as examples that could in fact qualify for the program:

44 **Chilmark:** Beetlebung Corner Pedestrian Improvements; Menemsha Implementation Plan

45 **Edgartown:** Middle Main signage and crosswalks at the end of the SUP by jail; temporary  
46 one-way circulation on Pinehurst.

47 **Oak Bluffs:** Improvements to promote increased compliance by northbound cyclists to exit  
48 Seaview Ave SUP at crosswalk before end of SUP

49 **Tisbury:** Marking of Bike Routes Downtown

50 **West Tisbury:** Temporary traffic calming through town center

51 **Aquinnah:** Aquinnah Circle

52 **Gosnold:** Sidewalks

53  
54 Mr. Veno also reported that there is a webinar being held tomorrow morning at 10:00 a.m.  
55 discussing options for accommodating retailers and food establishments during these times  
56 of social distancing, and to hear about the Shared Streets and Spaces Program. Registration  
57 is required.

58  
59 **5. Reports:**

60 **A. Vineyard Transit Authority (VTA):**

61 Ms. Gompert reported that the Church Street Terminal Expansion Project was voted down at  
62 Town Meeting. She also reported that the Board of Selectmen have established a working  
63 group to look at the charging station concerns which seemed to be the main objections to the  
64 project. Mr. Veno reported that he would be working with this group and it in fact will focus on  
65 that aspect of the project.

66 **B. Bicycle and Pedestrian Advisory Committee (BPAC):**

67 Mr. Shapiro reported that Greg Politz needed to be reappointed to the Bike and Ped  
68 Committee as the Tisbury representative. Mr. Turner made a motion to reappoint Mr. Politz to  
69 the Committee. Mr. Israel seconded the motion and suggested that the Committee also send  
70 a letter to the Board of Selectmen making mention of the reappointment.

71 **C. Steamship Authority (SSA):**

72 The group discussed sending a letter to Robert Davis, Executive Director of the Steamship  
73 Authority requesting that they appoint a representative and an alternate to the JTC. The last  
74 attending SSA rep was from 2009-2013. Mr. Mauro reported that he has been appointed to  
75 the SSA Traffic Mitigation Working Group and will submit a letter to the SSA as well as the  
76 MV Representative to the SSA Board of Governors.

77 **6. New Business:**

78 **A. Endorsement of the FFY 2021 Unified Planning Work Program (UPWP):**

79 Mr. Mauro distributed the Final Draft FFY 2021 Unified Planning Work Program (UPWP)  
80 for endorsement. He highlighted the few editorial edits that needed to be made such as  
81 the Federal Title VI/Non-Discrimination Protections languages and translation services.  
82 There were no comments submitted during the comment period other than those received  
83 by MassDOT and members of the JTC. Mr. Turner made a motion to endorse the DRAFT  
84 FFY 2021 UPWP as FINAL. Ms. Rand seconded the motion. The FFY 2021 Unified  
85 Planning Work Program was unanimously approved and endorsed. Mr. Mauro reported  
86 that he would place the final document on the website as soon as he receives the signatory  
87 endorsements.

88 **7. Old Business:**

89 **A. Regional Concerns and Local Technical Assistance Studies:**

90 Mr. Doyle reported that he would be putting together a quick traffic comparison from the  
91 permanent traffic counting stations during the pandemic. He did report that from April to  
92 May, the stations have seen an increase in upwards of 66%.

93 **8. Other Business:**

94 **A. Community Local Technical Assistance Studies:**

95 There was nothing to report.  
96

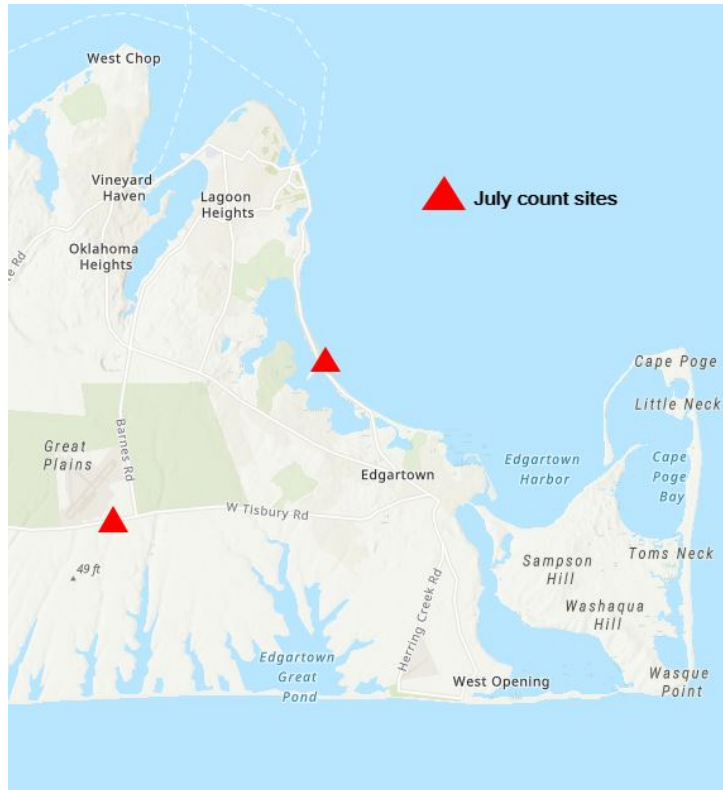
97 **9. Next Scheduled Meeting: Wednesday, August 19<sup>th</sup>, 2020 @ 9:30 a.m.**

98  
99 The meeting was adjourned at 10:15 a.m.  
100  
101

COVID comparison: July Traffic

**EDGARTOWN-WT ROAD:** If you feel as if the road has been quieter compared to past summers, you're right. MVC compared nearly a week's worth of July's vehicular volume data for the same spell back in 2017. **Traffic was down nearly 14% in 2020** at this site, just west of Barnes Road. Average Daily Traffic (ADT) was 11,804 vehicles in '17. ADT was 10,208 vehicles for the July stretch this year, nearly 1600 vehicles fewer.

**BEACH ROAD:** Despite pandemic advisories, **traffic along Beach Road was only down 3%** for the first full week in July when compared to the same snapshot in 2017. ADT for that interval this summer was just shy of **7900** cars. For that same week in 2017, ADT was **8172** vehicles.



# Martha's Vineyard Joint Transportation Committee

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508-693-3453 [mauro@mvcommission.org](mailto:mauro@mvcommission.org) [www.mvcommission.org](http://www.mvcommission.org)

July 30<sup>th</sup>, 2020

Mr. Davis,

The Martha's Vineyard Joint Transportation Committee (JTC) requests that the Steamship Authority (SSA) appoint a representative and an alternate to the JTC for 2020. The Joint Transportation Committee (JTC) is an advisory committee to the Martha's Vineyard Commission and the Metropolitan Planning Organization (MPO). The JTC provides a valuable forum for citizen involvement in the in-depth and ongoing process of selecting the proper combination and scheduling of local and regional transportation projects through the development of the Transportation Improvement Program (TIP), thereby ensuring the optimized utilization of financially limited resources. Thus, the County, Municipalities, the Commission and Metropolitan Planning Organization rely on the JTC for input and guidance on matters pertaining to transportation. It consists of appointed representatives from the six Island Towns, the County of Dukes County, the Vineyard Transit Authority (VTA), and the Wampanoag Tribe of Gay Head (Aquinnah), as well as non-voting representatives from the Steamship Authority (SSA), Massachusetts Department of Transportation (MassDOT), the Federal Highway Administration (FHWA), the Federal Transit Authority (FTA), and other transportation providers and users. The JTC meets monthly to discuss transportation issues and projects. It oversees the preparation of the Transportation Improvement Program (TIP), the Unified Planning Work Program (UPWP), and the Regional Transportation Plan (RTP).

The last attending Steamship Authority (SSA) representative was Bridget Tobin from 2009-2013. Attendance is critical, especially for the voting representatives, as the state and federal governments require timely action on a variety of issues.

Please confirm your appointments to the JTC by contacting the Transportation Program Manager or Executive Director at the MVC (508-693-3453). Transportation is an issue that affects every resident of Martha's Vineyard, and only by working with all Island stakeholders can we develop a transportation system that meets everyone's needs.

Regards,



Michael A. Mauro, Transportation Program Manager (MVC)

Cc : Adam Turner, Executive Director (MVC)  
James Malkin, SSA Martha's Vineyard Board Member  
Sean Driscoll, Communications Director (SSA)  
Douglas Sederholm, Chairman (MVC)  
Jim Verduynde, Aquinnah Representative (MVC)  
Alex Elvin, General Planner (MVC)

# COMPLETING STATE ROAD

IN THE TOWN OF  
WEST TISBURY, MA  
DUKES COUNTY



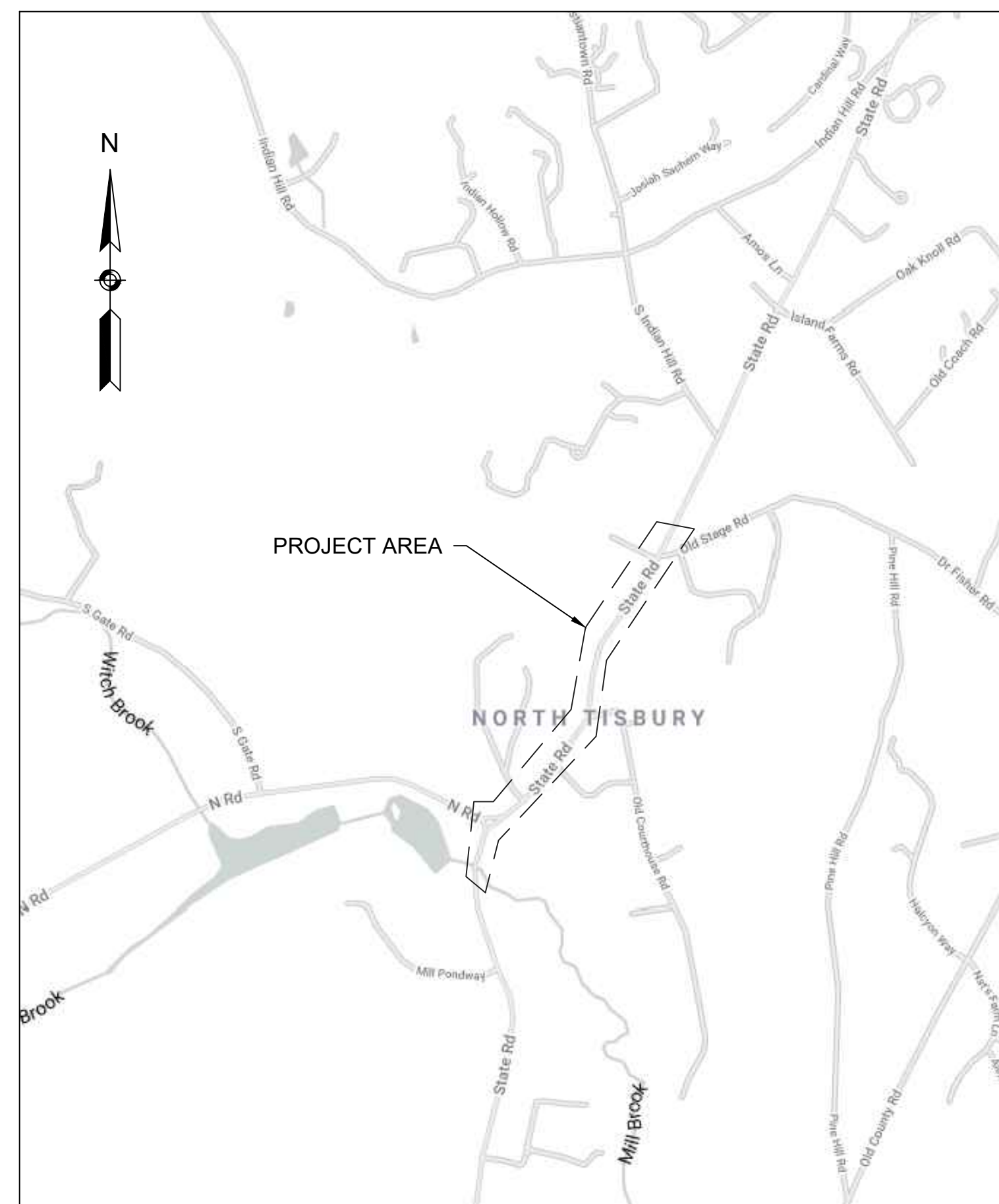
## TABLE OF CONTENTS

| SHEET NO. | DESCRIPTION                   |
|-----------|-------------------------------|
| 1         | TITLE SHEET & INDEX           |
| 2         | NOTES, LEGEND & ABBREVIATIONS |
| 3-4       | TYPICAL CROSS SECTIONS        |
| 5         | KEY PLAN                      |
| 6-11      | PLAN VIEWS                    |
| 12        | SIGNAGE DETAILS               |
| 13-14     | CONSTRUCTION DETAILS          |

THE MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES DATED 1988, AS AMENDED, THE SUPPLEMENTAL SPECIFICATIONS DATED JULY 1, 2015, THE OCTOBER 2017 CONSTRUCTION STANDARD DETAILS, THE 2015 OVERHEAD SIGNAL STRUCTURE AND FOUNDATION STANDARD DRAWINGS, MASSDOT TRAFFIC MANAGEMENT PLANS AND DETAIL DRAWINGS, THE LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS WITH MASSACHUSETTS AMENDMENTS, THE 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, THE 1968 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING, AND THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, WILL GOVERN.

## DESIGN DESIGNATION (STATE ROAD)

|                           |                       |
|---------------------------|-----------------------|
| DESIGN SPEED              | 30 MPH                |
| ADT (YYYY)                | X,XXX                 |
| ADT (YYYY)                | X,XXX                 |
| K                         | X                     |
| D                         | XX                    |
| T (PEAK HOUR)             | X,X                   |
| T (AVERAGE DAY)           | X,X                   |
| DHV                       | XXX                   |
| DDHV                      | XXX                   |
| FUNCTIONAL CLASSIFICATION | RURAL MAJOR COLLECTOR |



Northeastern University

## PDG TEAM MEMBERS

DR. DANIEL DULASKI, PHD, P.E.  
KEVIN KOLLMAN  
MADELINE AUGUSTINE, EIT  
CAROLINE LUCAS, EIT  
SHAWLENEE PEART  
LEINA XU, EIT

PRINCIPAL-IN-CHARGE  
PROJECT MANAGER  
CAD DESIGN  
SAFETY ANALYSIS  
TECHNICAL WRITER  
MULTI-MODAL DESIGN

CIVE 4554 TRANSPORTATION CAPSTONE 2019

435 SNELL ENGINEERING CENTER  
360 HUNTINGTON AVENUE  
BOSTON, MA 02115

**GENERAL NOTES:**

1. MAINTAIN EXISTING BACK OF SIDEWALK UNLESS OTHERWISE NOTED.
2. SIDEWALKS, RAMPS AND WALKWAYS SHALL BE IN COMPLIANCE WITH THE AMERICAN DISABILITIES ACT AS WELL AS BOTH LOCAL AND STATE LAWS.
3. ALL PAVEMENT MARKINGS AND SIGNAGE SHALL BE IN COMPLIANCE WITH THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES.

**LAYOUT AND MATERIALS:**

1. UNLESS OTHERWISE NOTED, DIMENSIONS ARE FROM THE FACE OF OBJECTS (CURB, WALL, BUILDING, ETC.)
2. CURB RADII SHALL BE 1 FT UNLESS OTHERWISE NOTED.
3. CURBING SHALL BE ASPHALT BERM CURBING UNLESS OTHERWISE NOTED.
4. PAVEMENT MARKINGS ARE FOR GRAPHICAL PURPOSES ONLY.
5. SEE SHEET 12 FOR SIGNAGE DETAILS.

**EXISTING CONDITIONS INFORMATION:**

1. THE BASE PLAN NETWORK SHOWN WAS GATHERED THROUGH AERIAL IMAGERY.
2. LIMITED RIGHT OF WAY DATA PROVIDED BY THE TOWN OF WEST TISBURY. NORTH OF THE INTERSECTION OF NORTH ROAD AND STATE ROAD, RIGHT OF WAY WAS INFERRED FROM EXISTING CONDITIONS AS NEEDED.

**SYMBOLS**

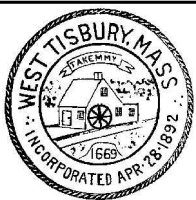


- SIGN POST
- + CENTER OF INSCRIBED CIRCLE FOR RADIUS MEASUREMENTS

**ABBREVIATIONS**

- TYP. TYPICAL
- R.O.W. RIGHT OF WAY
- SQ. FT. SQUARE FEET
- EX. EXISTING
- PROP. PROPOSED

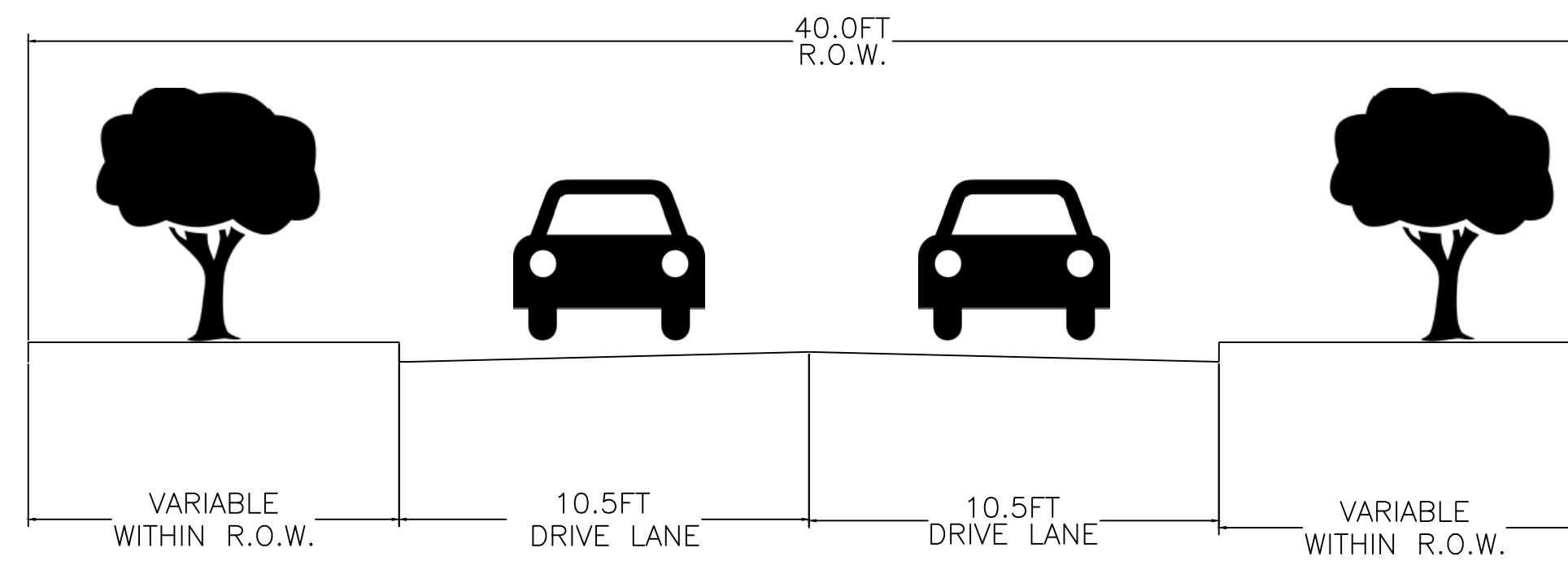
**LEGEND**

- RIGHT OF WAY
- - - - - LIMIT OF WORK
- ▨ CONCRETE SIDEWALK
- HOT MIX ASPHALT PATH
- ⋯ EXISTING STONE WALL
- EXISTING FENCE
- EXISTING EDGE OF PAVEMENT
- PROPOSED EDGE OF PAVEMENT
- EXISTING PAVEMENT MARKINGS
- PROPOSED PAVEMENT MARKINGS

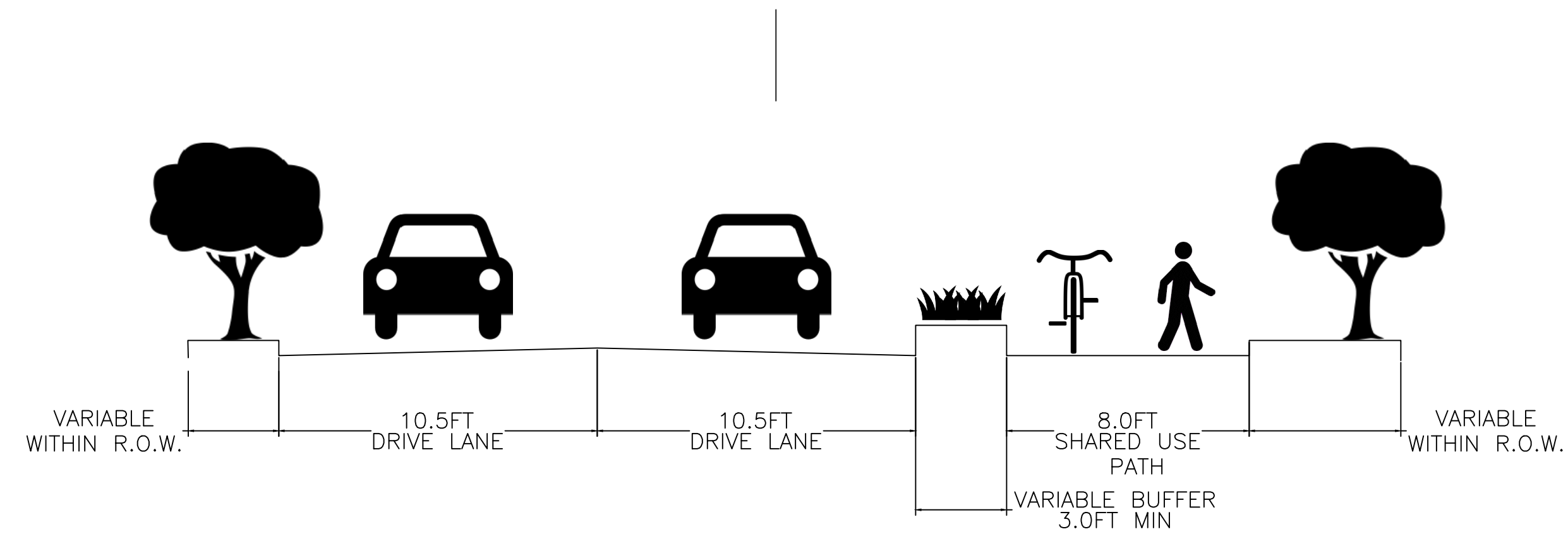
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|       |      |  |    | TOWN OF WEST TISBURY, MASSACHUSETTS                                                   |          |
|       |      |                                                                                       |    | COMPLETING STATE ROAD                                                                 |          |
|       |      | LEGEND AND NOTES                                                                      |    |                                                                                       |          |
|       |      |  |    |  |          |
|       |      | SNELL ENGINEERING CENTER<br>110 FORSYTH ST<br>BOSTON, MA 02110-2378                   |    | NORTHEASTERN UNIVERSITY<br>DEPARTMENT OF CIVIL AND<br>ENVIRONMENTAL ENGINEERING       |          |
|       |      | APPROVED BY: _____<br>Manager of Design: _____ Date: _____                            |    |                                                                                       |          |
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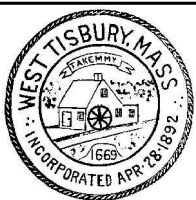




**EXISTING CONDITIONS  
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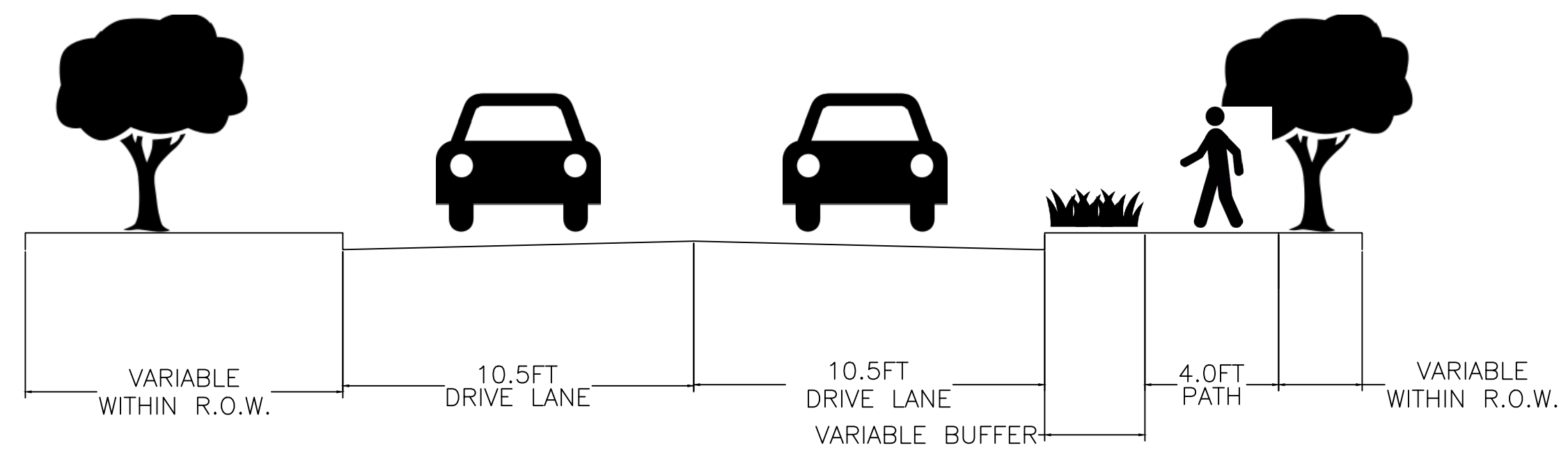


**PROPOSED CROSS SECTION  
STA 0+00 TO STA 8+60**

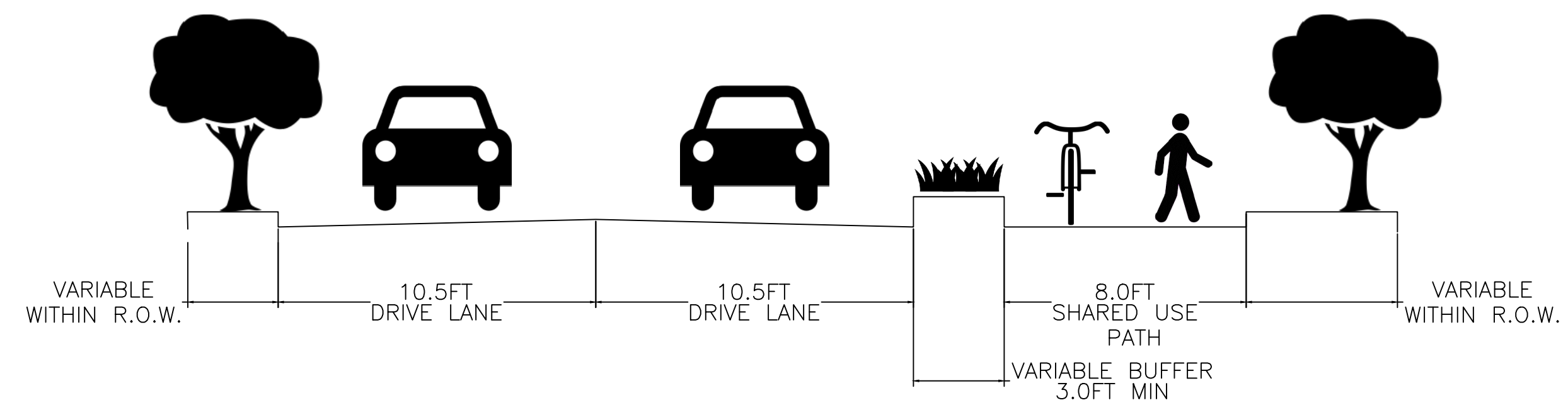


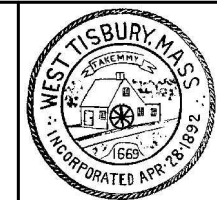


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|                                                      |  | CROSS SECTION 1                                                                                                                                                    |  |
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|                                                      |  |  NORTHEASTERN UNIVERSITY<br>DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING |  |
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**EXISTING CONDITIONS  
STA 8+60 TO STA 21+20**



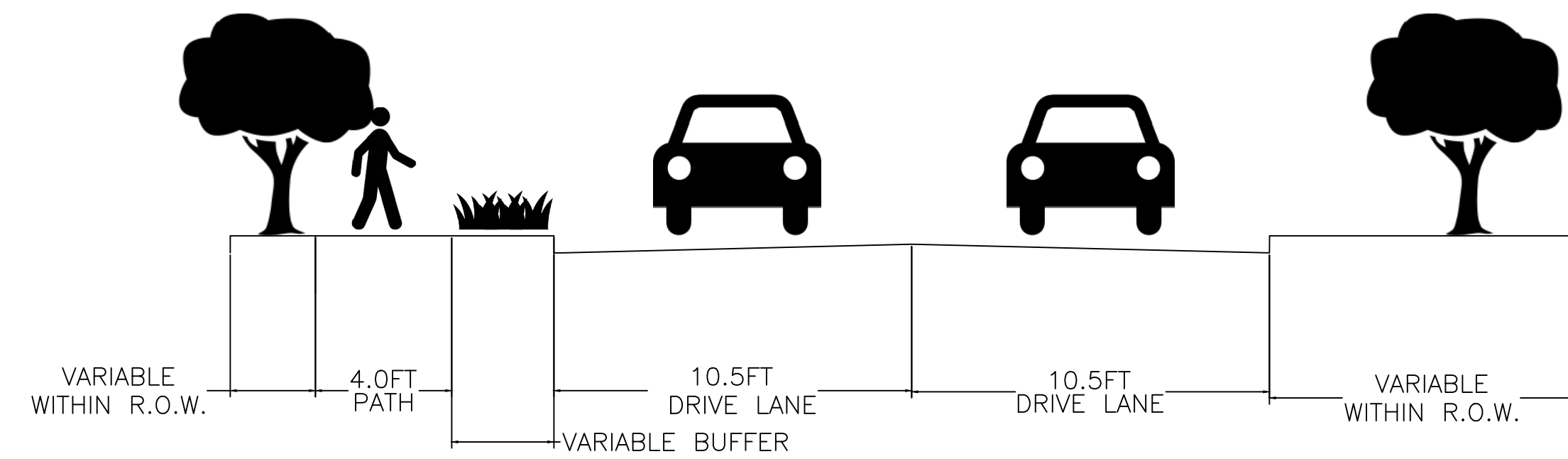
**PROPOSED CROSS SECTION  
STA 8+60 TO STA 21+18**



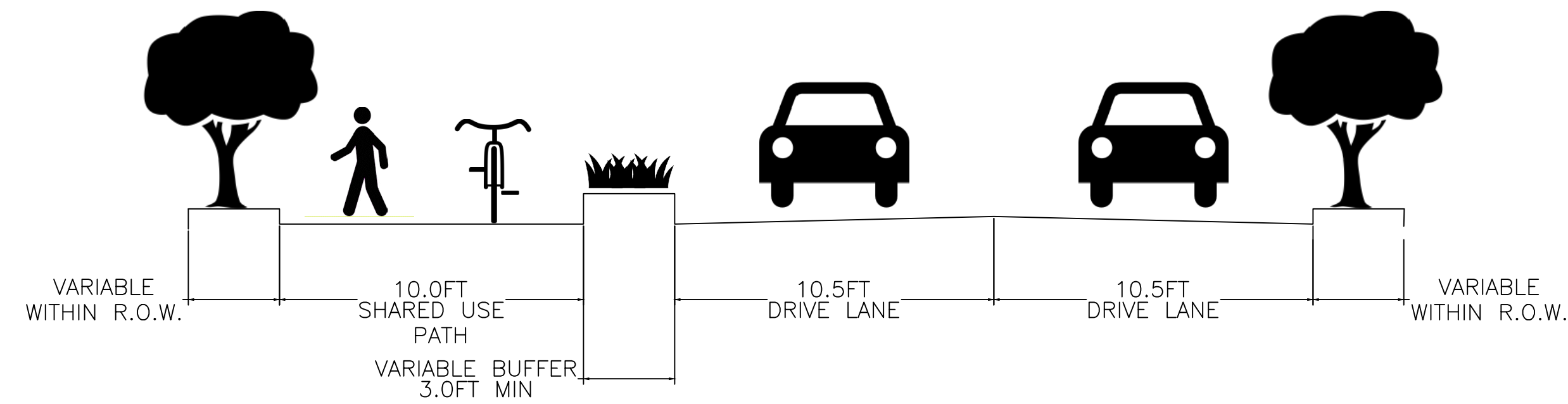
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|  | TOWN OF WEST TISBURY, MASSACHUSETTS                                 |                                                                                          |
|                                                                                       | COMPLETING STATE ROAD                                               |                                                                                          |
|                                                                                       | CROSS SECTION 1                                                     |                                                                                          |
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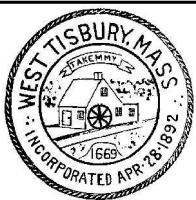



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**EXISTING CONDITIONS  
STA 21+20 TO STA 31+10**



**PROPOSED CROSS SECTION  
STA 21+18 TO STA 31+10**



|                                                                                                                                                                                                                                                |      |  |      | TOWN OF WEST TISBURY, MASSACHUSETTS                                                   |     |      |     |  |  |  |  |  |  |                                          |  |                                                                                              |  |
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|                                                                                                                                                                                                                                                |      |                                                                                       |      | CROSS SECTION 3                                                                       |     |      |     |  |  |  |  |  |  |                                          |  |                                                                                              |  |
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|                                                                                                                                                                                                                                                |      | SNELL ENGINEERING CENTER<br>110 FORSYTH ST<br>BOSTON, MA 02110-2378                   |      | NORTHEASTERN UNIVERSITY<br>DEPARTMENT OF CIVIL AND<br>ENVIRONMENTAL ENGINEERING       |     |      |     |  |  |  |  |  |  |                                          |  |                                                                                              |  |
| APPROVED BY: _____<br>Manager of Design: _____ Date: _____                                                                                                                                                                                     |      | HORIZ: 1" = 4'<br>VERT: 1" = 4'<br>DATE: 04/17/2019                                   |      | PLAN NO. _____<br>SHEET 5 OF 15                                                       |     |      |     |  |  |  |  |  |  |                                          |  |                                                                                              |  |
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| ISSUE                                                                                                                                                                                                                                          | DATE | DESCRIPTION                                                                           | BY   | CHKD                                                                                  | APP |      |     |  |  |  |  |  |  |                                          |  |                                                                                              |  |
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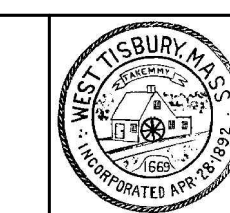
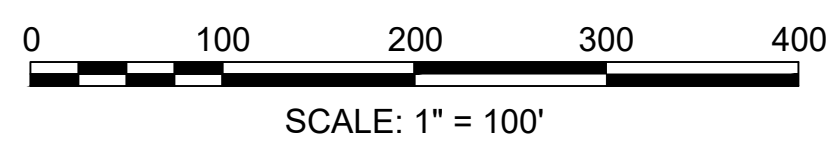
SHEET 7/8

SHEET 9

SHEET 10

SHEET 11

SHEET 12



TOWN OF WEST TISBURY, MASSACHUSETTS

COMPLETING STATE ROAD

KEY PLAN



SNELL ENGINEERING CENTER  
110 FORSYTH ST  
BOSTON, MA 02110-2378



NORTHEASTERN UNIVERSITY  
DEPARTMENT OF CIVIL AND  
ENVIRONMENTAL ENGINEERING

APPROVED BY:

Manager of Design:

Date:

| ISSUE | DATE | DESCRIPTION | BY | CHKD | APP |
|-------|------|-------------|----|------|-----|
|       |      |             |    |      |     |
|       |      |             |    |      |     |
|       |      |             |    |      |     |

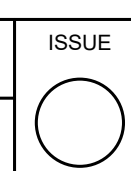
HORIZ: 1" = 100'

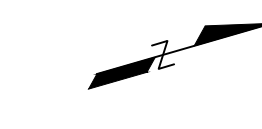
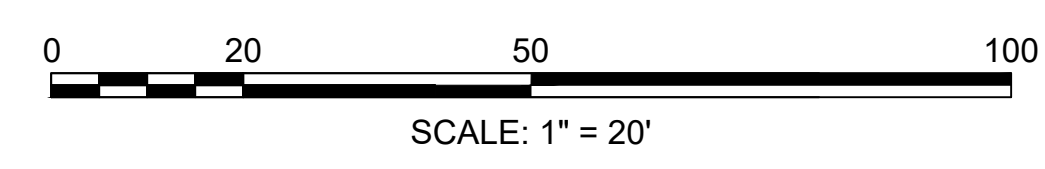
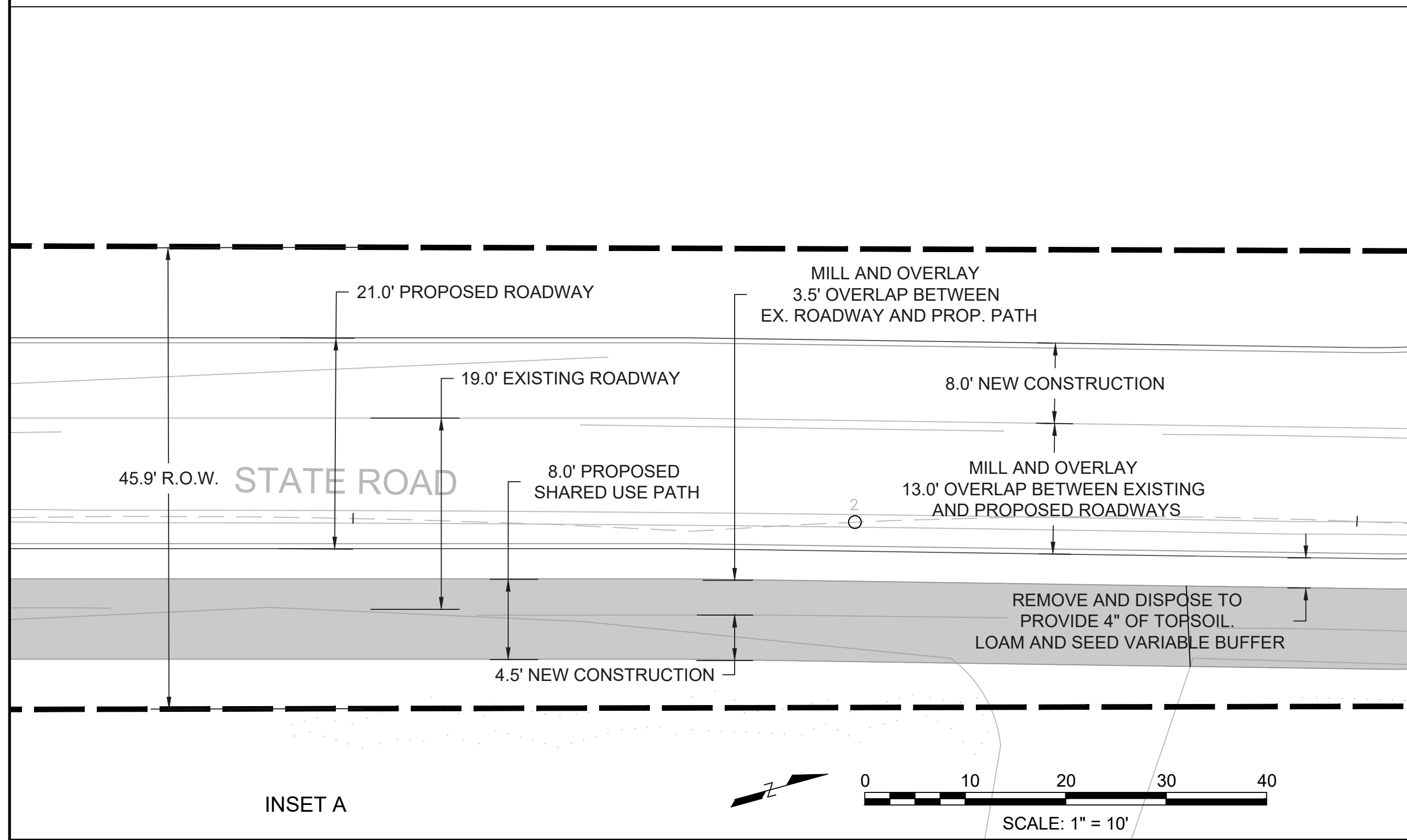
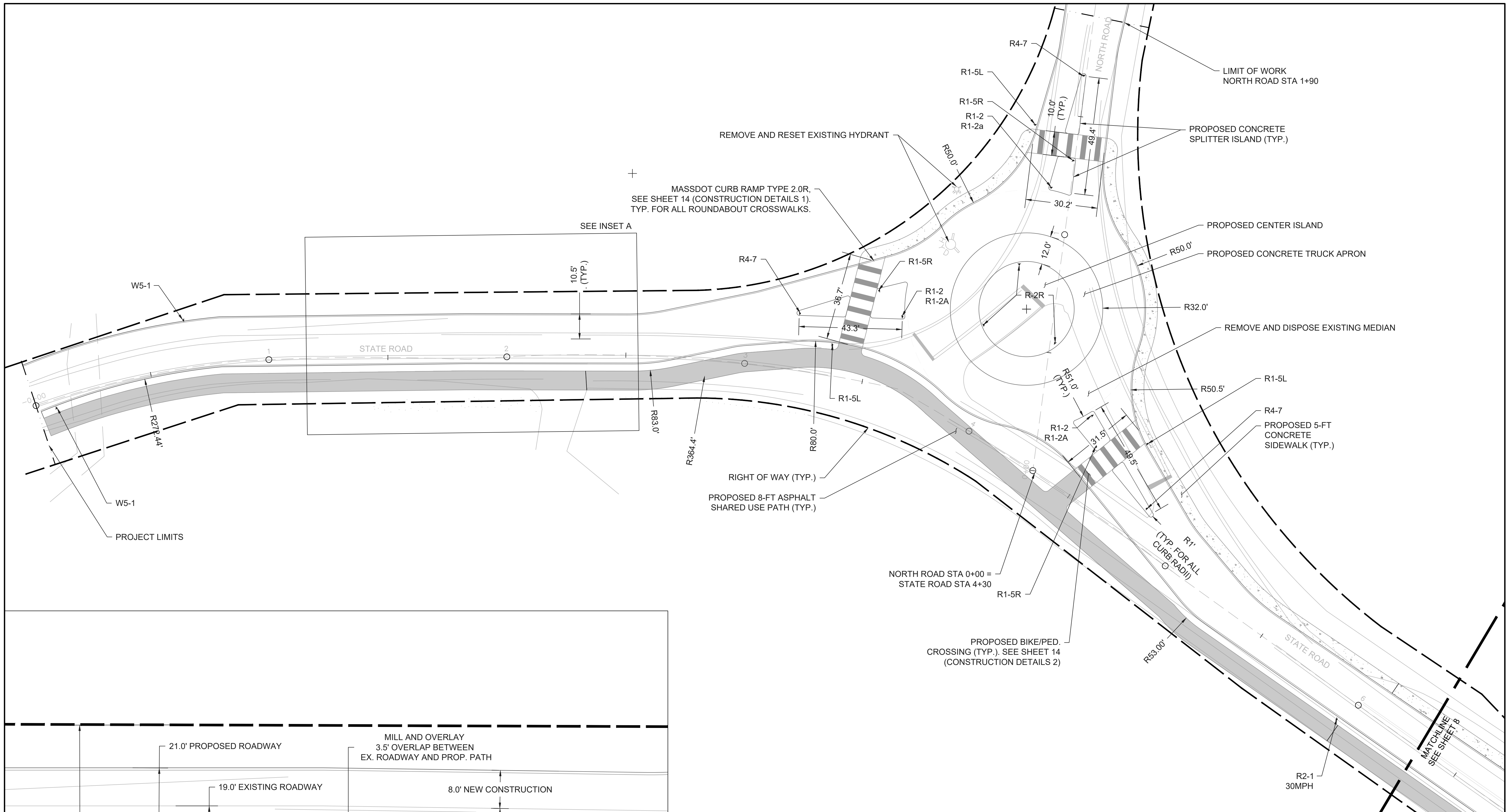
VERT: 1" = 100'

DATE: 04/17/2019

DES BY: MCA  
DR BY: MCA  
CHK BY: KKK

PLAN NO. SHEET 6 OF 15





TOWN OF WEST TISBURY, MASSACHUSETTS

**COMPLETING STATE ROAD**

PLAN VIEW 1 - PREFERRED ALTERNATIVE

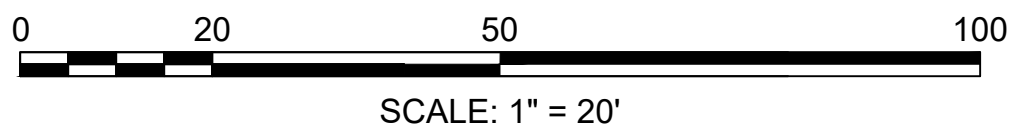
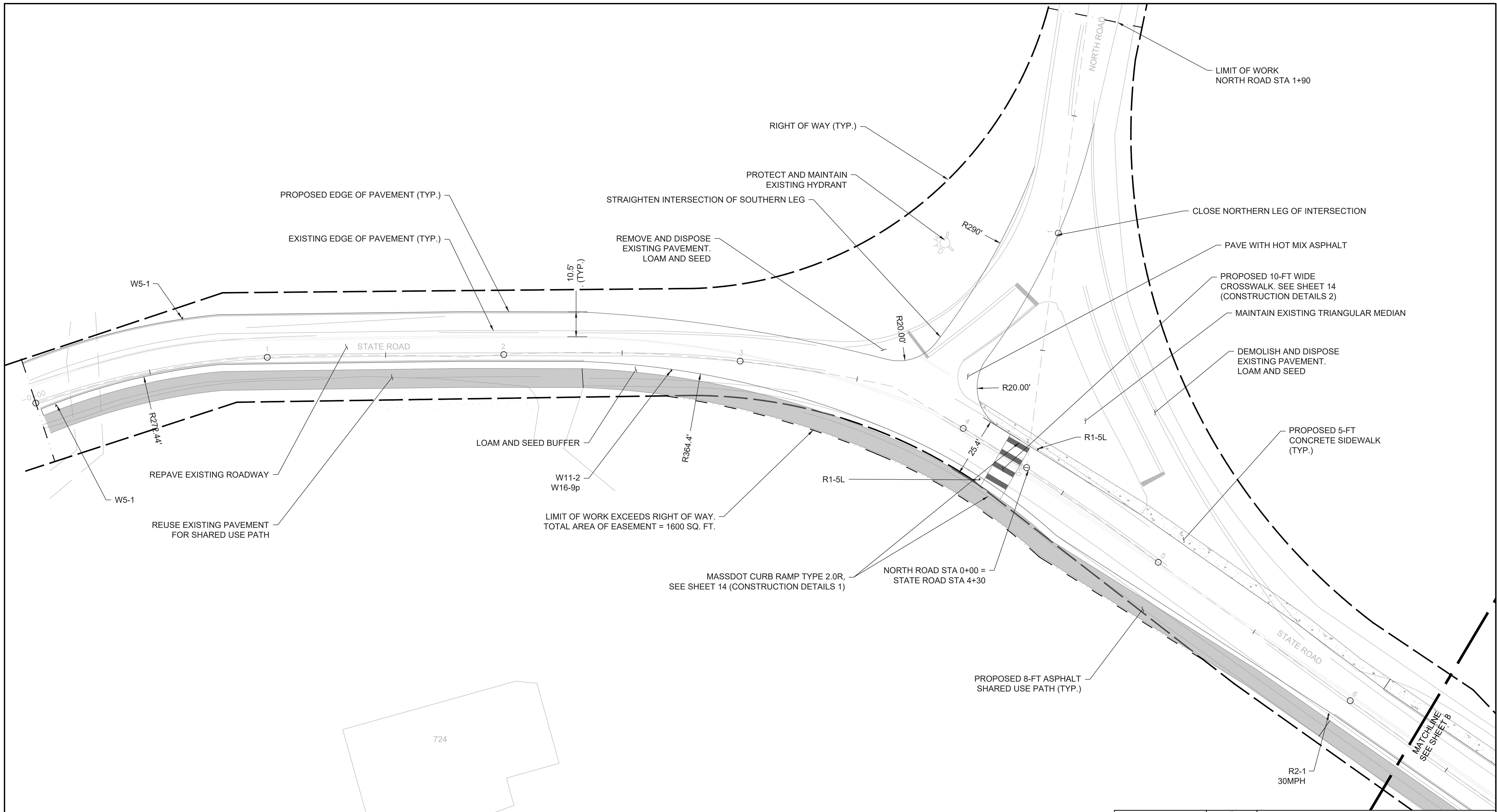
SNELL ENGINEERING CENTER  
110 FORSYTH ST  
BOSTON, MA 02110-2378

NORTHEASTERN UNIVERSITY  
DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING

APPROVED BY: \_\_\_\_\_ Date: \_\_\_\_\_  
Manager of Design: \_\_\_\_\_

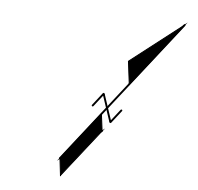
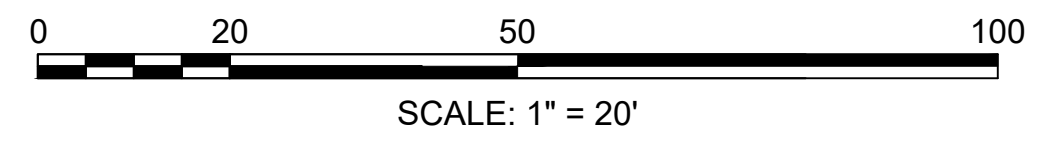
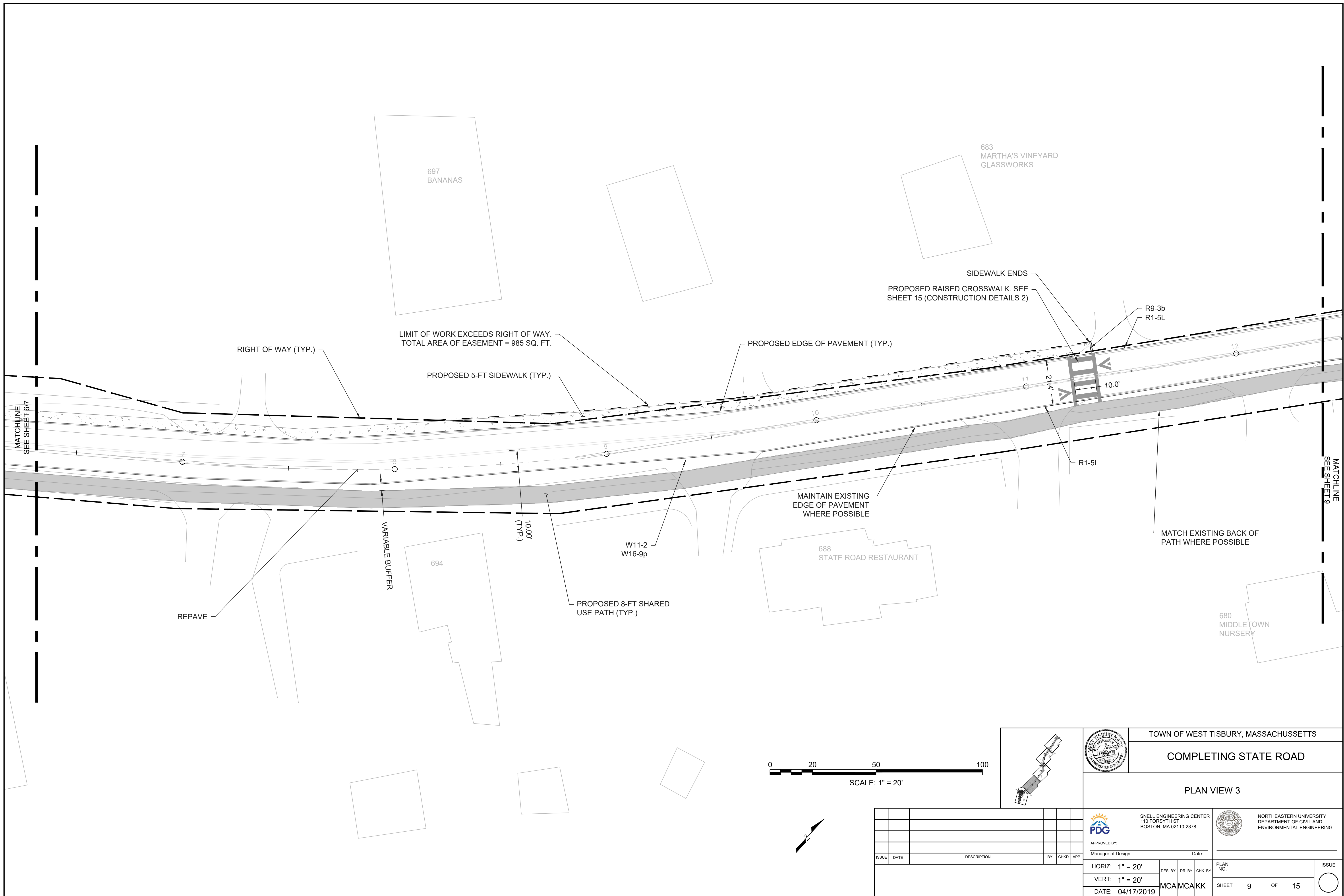
| ISSUE | DATE | DESCRIPTION | BY | CHKD | APP |
|-------|------|-------------|----|------|-----|
|       |      |             |    |      |     |

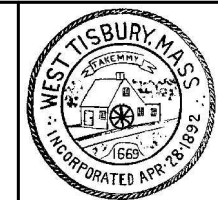


|                  |        |       |        |               |       |
|------------------|--------|-------|--------|---------------|-------|
| HORIZ: 1" = 20'  | DES BY | DR BY | CHK BY | PLAN NO.      | ISSUE |
| VERT: 1" = 20'   | MCA    | MCA   | KK     | SHEET 7 OF 15 |       |
| DATE: 04/17/2019 |        |       |        |               |       |

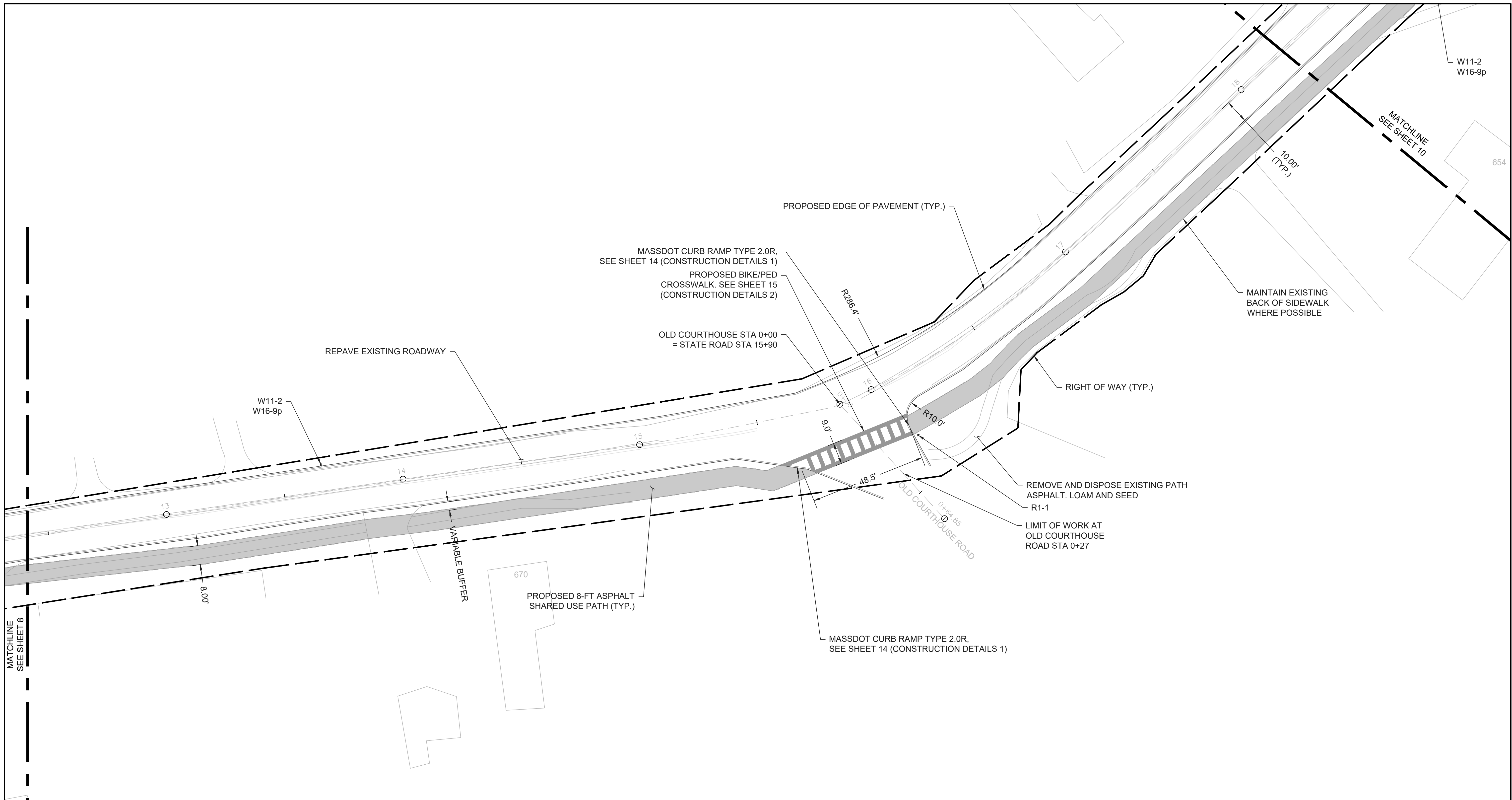


NOTE:  
CURRENT LAYOUT WAS DESIGNED TO MINIMIZE  
MOVEMENT OF ROADWAY. EASEMENT COULD BE  
AVOIDED IF ADDITIONAL ROADWAY WAS SHIFTED.

|                                                                     |      |                                                                                 |               |
|---------------------------------------------------------------------|------|---------------------------------------------------------------------------------|---------------|
|                                                                     |      | TOWN OF WEST TISBURY, MASSACHUSETTS                                             |               |
|                                                                     |      | COMPLETING STATE ROAD                                                           |               |
| PLAN VIEW 2 - SECONDARY ALTERNATIVE                                 |      |                                                                                 |               |
|                                                                     |      |                                                                                 |               |
| SNELL ENGINEERING CENTER<br>110 FORSYTH ST<br>BOSTON, MA 02110-2378 |      | NORTHEASTERN UNIVERSITY<br>DEPARTMENT OF CIVIL AND<br>ENVIRONMENTAL ENGINEERING |               |
| APPROVED BY:                                                        |      | Date:                                                                           |               |
| Manager of Design:                                                  |      |                                                                                 |               |
| ISSUE                                                               | DATE | DESCRIPTION                                                                     | BY            |
|                                                                     |      |                                                                                 | CHKD APP      |
| HORIZ: 1" = 20'<br>VERT: 1" = 20'<br>DATE: 04/17/2019               |      | DES BY                                                                          | DR BY         |
|                                                                     |      | CHK BY                                                                          | PLAN NO.      |
|                                                                     |      | MCA/MCA/KK                                                                      | SHEET 8 OF 15 |
|                                                                     |      |                                                                                 | ISSUE         |

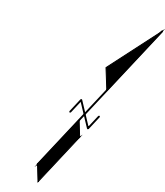
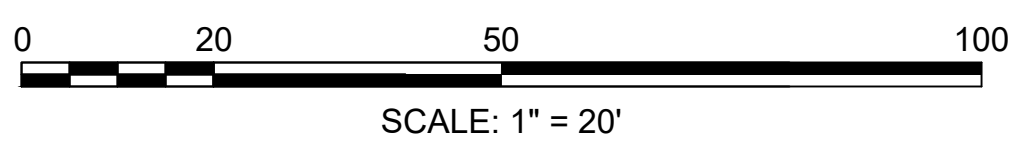


|                                                                                       |            |                                                                                       |          |
|---------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------|----------|
|  |            | TOWN OF WEST TISBURY, MASSACHUSETTS                                                   |          |
|                                                                                       |            | <b>COMPLETING STATE ROAD</b>                                                          |          |
| PLAN VIEW 3                                                                           |            |                                                                                       |          |
|  |            |  |          |
| SNELL ENGINEERING CENTER<br>110 FORSYTH ST<br>BOSTON, MA 02110-2378                   |            | NORTHEASTERN UNIVERSITY<br>DEPARTMENT OF CIVIL AND<br>ENVIRONMENTAL ENGINEERING       |          |
| APPROVED BY:                                                                          |            | Date:                                                                                 |          |
| Manager of Design:                                                                    |            | Date:                                                                                 |          |
| HORIZ:                                                                                | 1" = 20'   | DES BY                                                                                | DR BY    |
| VERT:                                                                                 | 1" = 20'   | CHK BY                                                                                | PLAN NO. |
| DATE:                                                                                 | 04/17/2019 | MCA                                                                                   | MCA      |
|                                                                                       |            | SHEET 9 OF 15                                                                         |          |
|                                                                                       |            |                                                                                       | ISSUE    |



MATCHLINE  
SEE SHEET 8

MATCHLINE  
SEE SHEET 10



TOWN OF WEST TISBURY, MASSACHUSETTS  
**COMPLETING STATE ROAD**

PLAN VIEW 4

|  |  |  |  |  |  |
|--|--|--|--|--|--|
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

APPROVED BY: \_\_\_\_\_  
 Manager of Design: \_\_\_\_\_ Date: \_\_\_\_\_  
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|                  |        |       |        |                |       |
|------------------|--------|-------|--------|----------------|-------|
| HORIZ: 1" = 20'  | DES BY | DR BY | CHK BY | PLAN NO.       | ISSUE |
| VERT: 1" = 20'   | MCA    | MCA   | KK     | SHEET 10 OF 15 |       |
| DATE: 04/17/2019 |        |       |        |                |       |

680  
MIDDLETOWN  
NURSERY

670

W11-2  
W16-9p

W11-2  
W16-9p

654

MAINTAIN EXISTING  
BACK OF SIDEWALK  
WHERE POSSIBLE

MASSDOT CURB RAMP TYPE 2.0R,  
SEE SHEET 14 (CONSTRUCTION DETAILS 1)  
PROPOSED BIKE/PED  
CROSSWALK. SEE SHEET 15  
(CONSTRUCTION DETAILS 2)

OLD COURTHOUSE STA 0+00  
= STATE ROAD STA 15+90

REPAVE EXISTING ROADWAY

PROPOSED EDGE OF PAVEMENT (TYP.)

RIGHT OF WAY (TYP.)

REMOVE AND DISPOSE EXISTING PATH  
ASPHALT. LOAM AND SEED  
R1-1

LIMIT OF WORK AT  
OLD COURTHOUSE  
ROAD STA 0+27

PROPOSED 8-FT ASPHALT  
SHARED USE PATH (TYP.)

MASSDOT CURB RAMP TYPE 2.0R,  
SEE SHEET 14 (CONSTRUCTION DETAILS 1)

8.00'

VARIABLE BUFFER

9.0'

48.5'

R10.0'

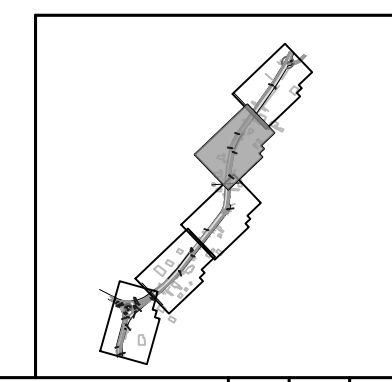
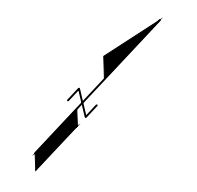
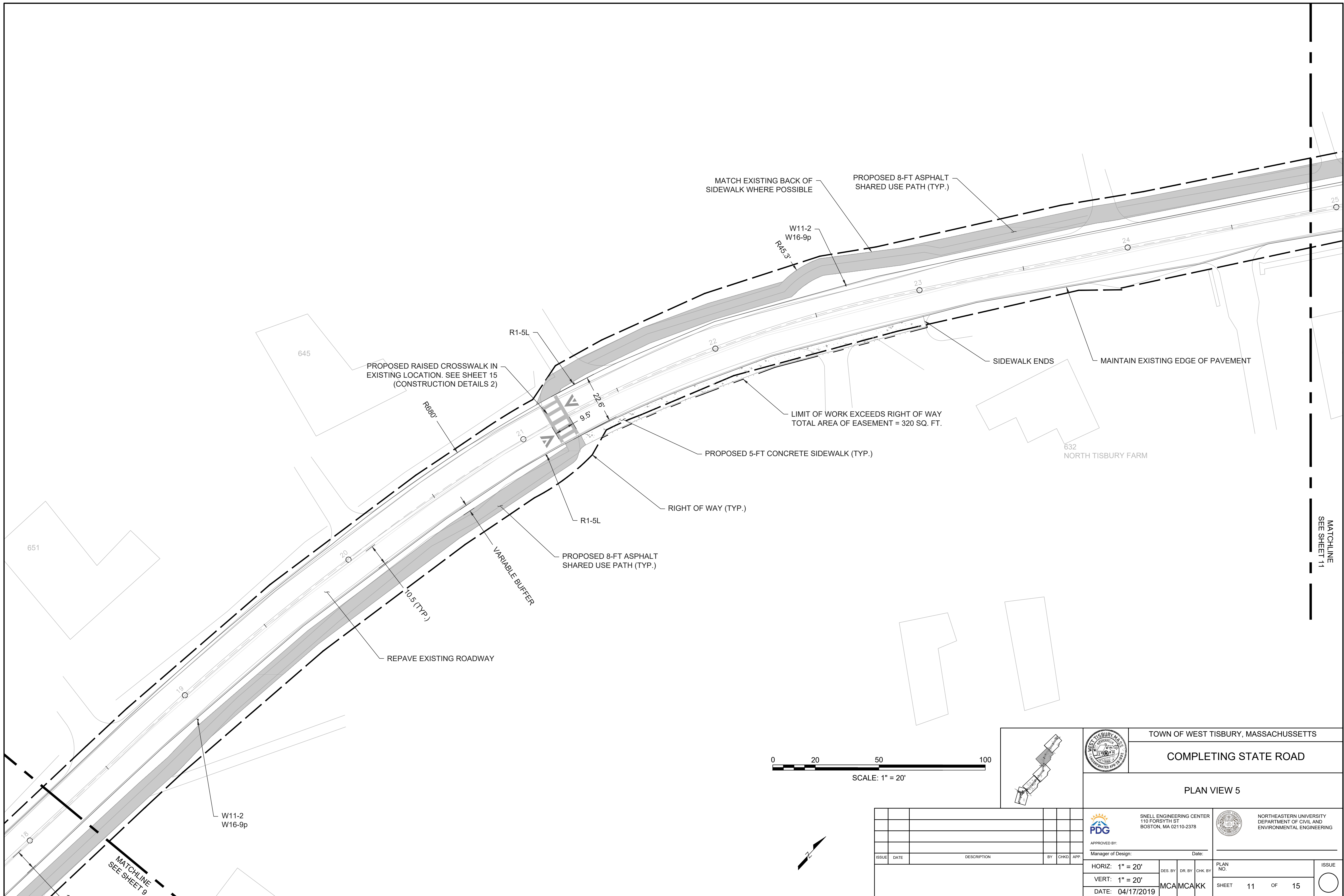
R236.4'

10.00'  
(TYP.)

OLD COURTHOUSE ROAD

0+164.85





TOWN OF WEST TISBURY, MASSACHUSETTS  
**COMPLETING STATE ROAD**

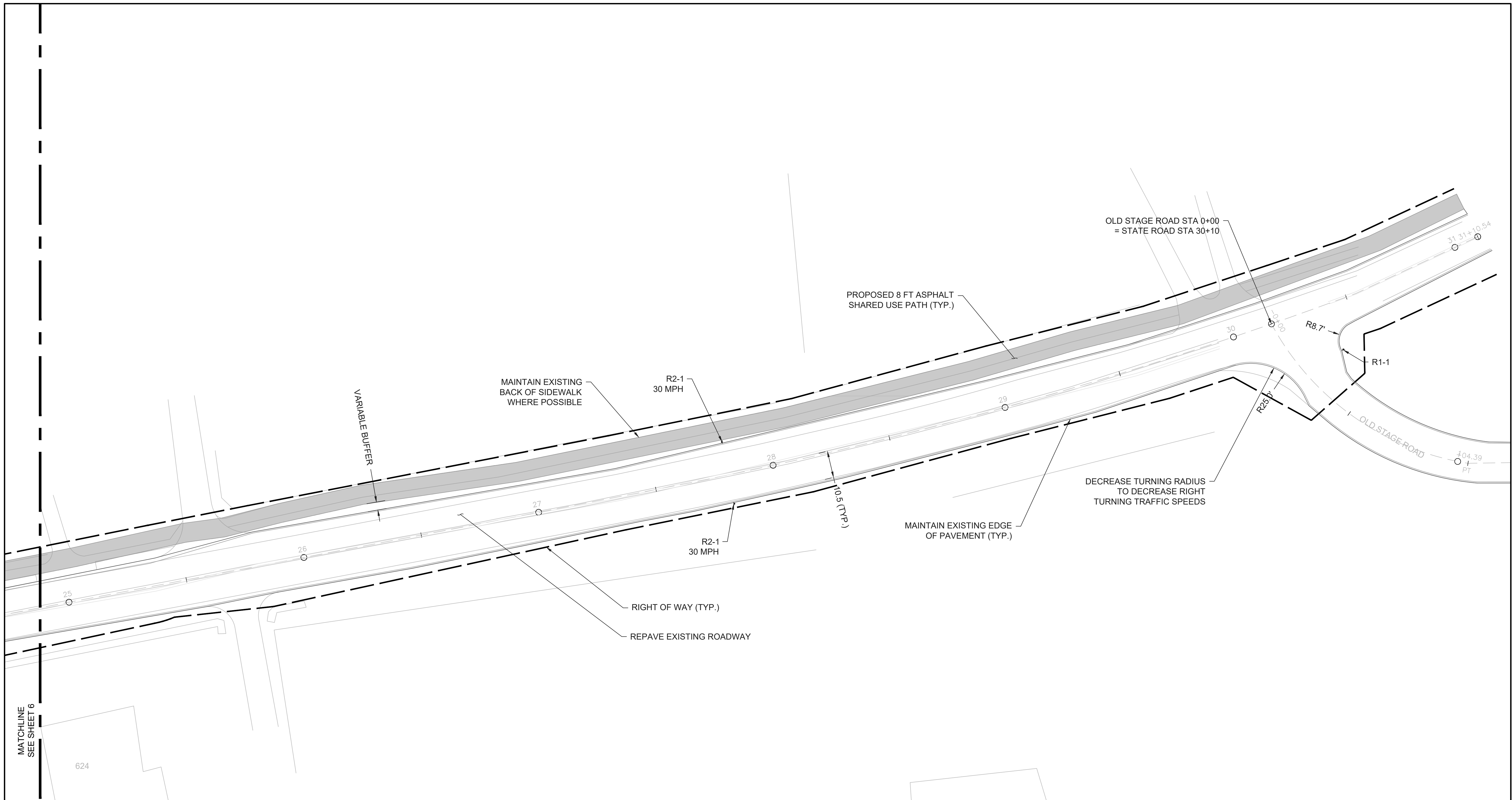
PLAN VIEW 5

| ISSUE | DATE | DESCRIPTION | BY | CHKD | APP |
|-------|------|-------------|----|------|-----|
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|                                                            |  |                                                                     |  |                                          |  |                                                                                 |  |
|------------------------------------------------------------|--|---------------------------------------------------------------------|--|------------------------------------------|--|---------------------------------------------------------------------------------|--|
|                                                            |  | SNELL ENGINEERING CENTER<br>110 FORSYTH ST<br>BOSTON, MA 02110-2378 |  |                                          |  | NORTHEASTERN UNIVERSITY<br>DEPARTMENT OF CIVIL AND<br>ENVIRONMENTAL ENGINEERING |  |
| APPROVED BY: _____<br>Manager of Design: _____ Date: _____ |  |                                                                     |  | DES BY: MCA<br>DR BY: MCA<br>CHK BY: KKK |  | PLAN NO. _____<br>SHEET 11 OF 15                                                |  |
| HORIZ: 1" = 20'<br>VERT: 1" = 20'<br>DATE: 04/17/2019      |  |                                                                     |  | ISSUE                                    |  |                                                                                 |  |

MATCHLINE  
SEE SHEET 11

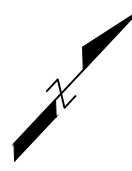
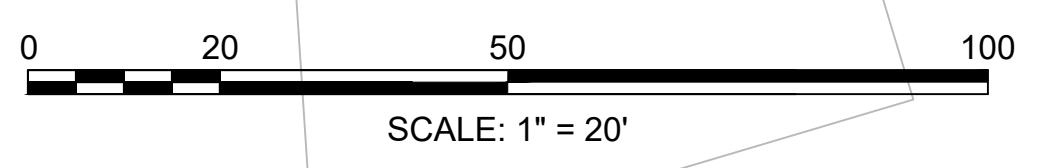
MATCHLINE  
SEE SHEET 9



MATCHLINE  
SEE SHEET 6

624

612



TOWN OF WEST TISBURY, MASSACHUSETTS

**COMPLETING STATE ROAD**

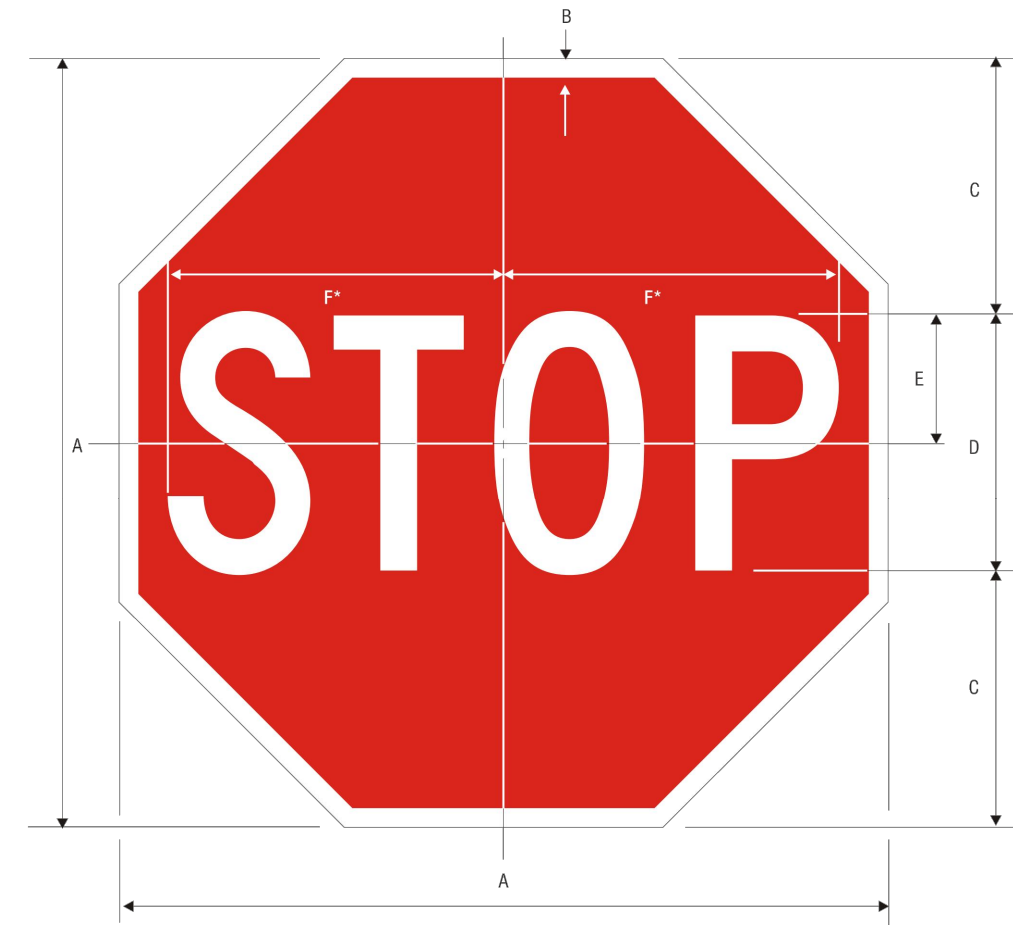
PLAN VIEW 6

SNELL ENGINEERING CENTER  
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DEPARTMENT OF CIVIL AND  
ENVIRONMENTAL ENGINEERING

| ISSUE | DATE | DESCRIPTION | BY | CHKD | APP |
|-------|------|-------------|----|------|-----|
|       |      |             |    |      |     |
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|       |      |             |    |      |     |

|                    |                |         |         |
|--------------------|----------------|---------|---------|
| APPROVED BY:       |                | Date:   |         |
| Manager of Design: |                | Date:   |         |
| HORIZ:             | 1" = 20'       | DES BY: | DR. BY: |
| VERT:              | 1" = 20'       | CHK BY: | CHK BY: |
| DATE:              | 04/17/2019     | MCA     | MCA     |
| PLAN NO.           | SHEET 12 OF 15 | ISSUE   |         |



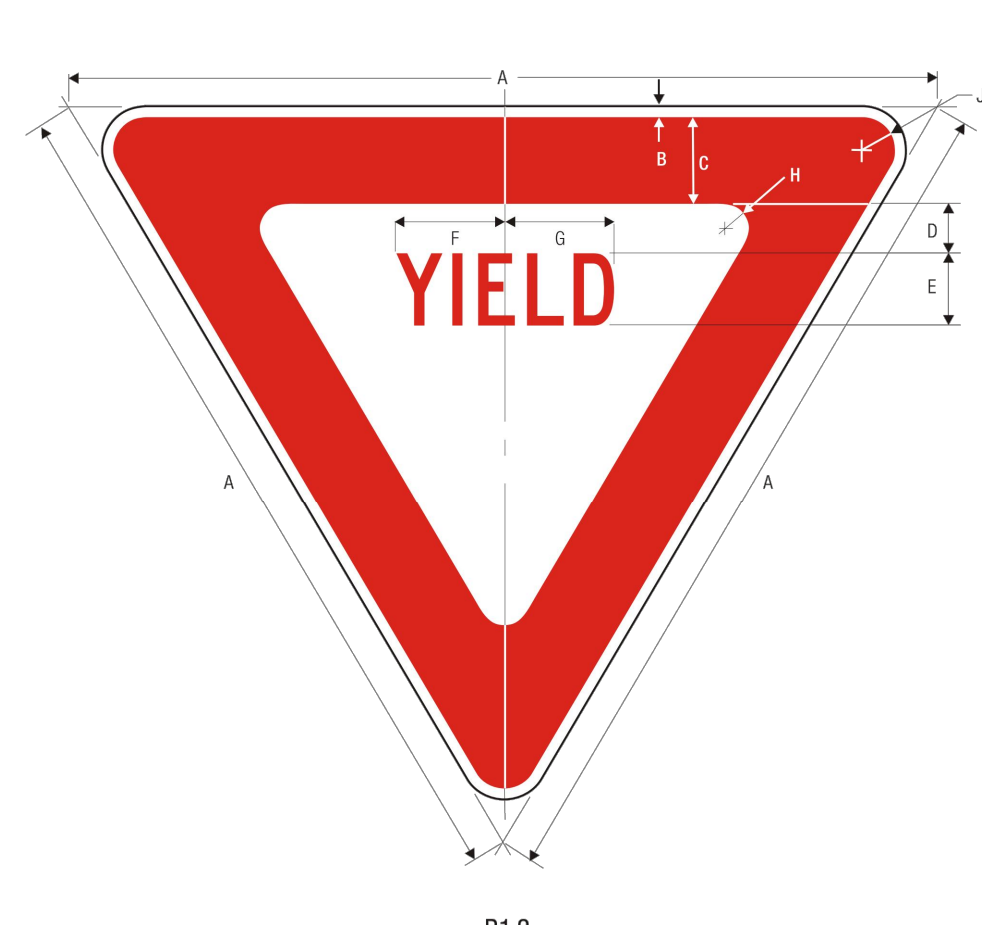
R1-1  
STOP

\*Reduce spacing 40%

| A  | B    | C  | D    | E | F    |
|----|------|----|------|---|------|
| 18 | .375 | 6  | 6 C  | 3 | 7.75 |
| 24 | .625 | 8  | 8 C  | 4 | 10   |
| 30 | .75  | 10 | 10 C | 5 | 12.5 |
| 36 | .875 | 12 | 12 C | 6 | 15   |
| 48 | 1.25 | 16 | 16 C | 8 | 20   |

COLORS: LEGEND — WHITE (RETROREFLECTIVE)  
BACKGROUND — RED (RETROREFLECTIVE)

1-1



R1-2  
YIELD

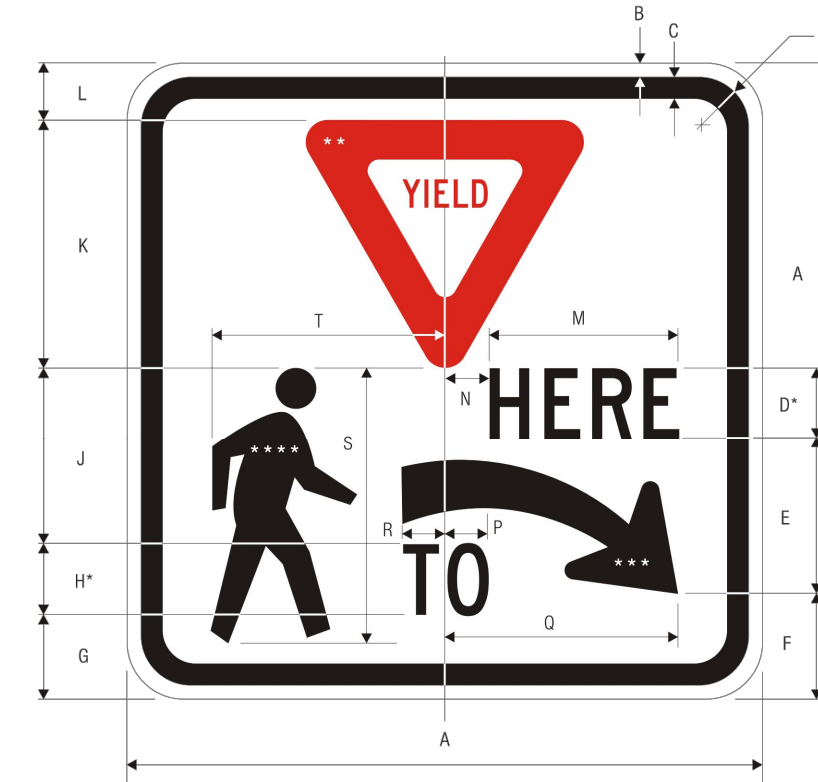
| A  | B    | C | D     | E     | F     | G     | H    | J   |
|----|------|---|-------|-------|-------|-------|------|-----|
| 18 | .375 | 2 | 1     | 1.5 C | 2.375 | 2.988 | .625 | 1.5 |
| 24 | .375 | 3 | 1.375 | 2 C   | 3.25  | 3     | .875 | 1.5 |
| 30 | .625 | 4 | 1.75  | 2.5 C | 3.938 | 3.625 | .875 | 1.5 |
| 36 | .75  | 5 | 2     | 3 C   | 4.688 | 4.375 | 1.25 | 2   |
| 48 | 1    | 6 | 2.75  | 4 C   | 6.25  | 5.875 | 2    | 3   |
| 60 | 1.5  | 8 | 3.5   | 5 C   | 7.875 | 7.25  | 2.5  | 4   |

COLORS: LEGEND — RED (RETROREFLECTIVE)  
BACKGROUND — WHITE (RETROREFLECTIVE)

1-2



W5-1



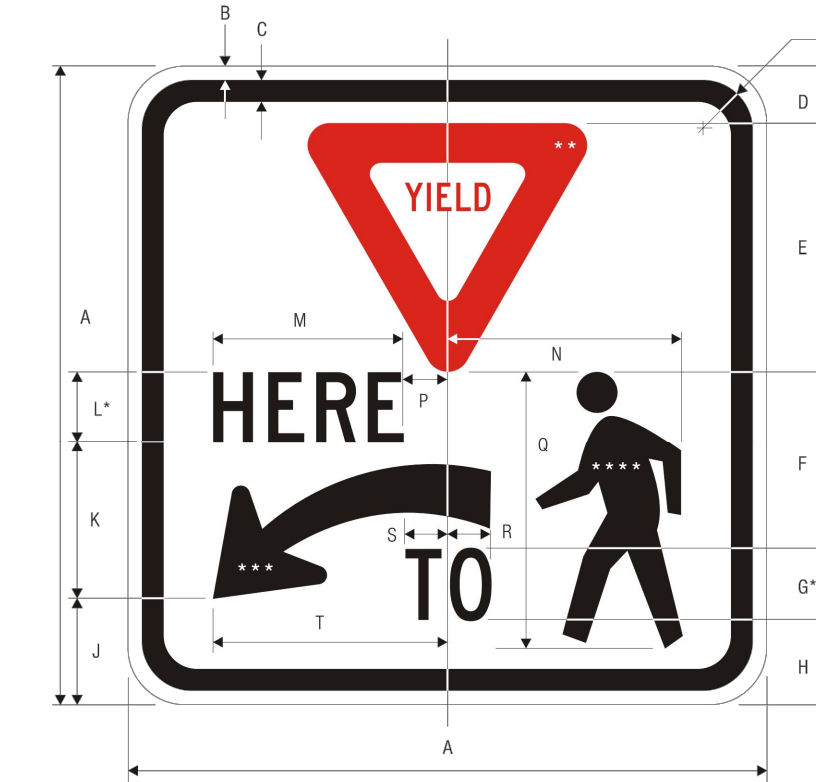
R1-5R  
YIELD HERE TO PEDESTRIANS

| A  | B    | C    | D   | E     | F | G     | H   | J   | K    | L     |
|----|------|------|-----|-------|---|-------|-----|-----|------|-------|
| 18 | .375 | .625 | 2 C | 4.375 | 3 | 2.375 | 2 C | 5   | 7    | 1.625 |
| 30 | .5   | .75  | 3 C | 7.25  | 5 | 4.25  | 3 C | 8.5 | 11.5 | 2.75  |
| 36 | .625 | .875 | 4 C | 8.75  | 6 | 4.75  | 4 C | 10  | 14   | 3.25  |

| M      | N     | P     | Q     | R     | S     | T     | U     |
|--------|-------|-------|-------|-------|-------|-------|-------|
| 5.364  | 1.240 | 1.220 | 6.605 | 1.220 | 7.805 | 6.605 | 1.5   |
| 8.061  | 2     | 1.820 | 11    | 1.820 | 13    | 11    | 1.875 |
| 10.728 | 2.48  | 2.44  | 13.21 | 2.44  | 15.61 | 13.21 | 2.25  |

COLORS: LEGEND & ARROW — BLACK  
PED SYMBOL — BLACK  
BACKGROUND — WHITE (RETROREFLECTIVE)  
YIELD SYMBOL — RED (RETROREFLECTIVE)

X-XX



R1-5L  
YIELD HERE TO PEDESTRIANS

| A  | B    | C    | D     | E    | F   | G   | H     | J | K     | L   |
|----|------|------|-------|------|-----|-----|-------|---|-------|-----|
| 18 | .375 | .625 | 1.625 | 7    | 5   | 2 C | 2.375 | 3 | 4.375 | 2 C |
| 30 | .5   | .75  | 2.75  | 11.5 | 8.5 | 3 C | 4.25  | 5 | 7.25  | 3 C |
| 36 | .625 | .875 | 3.25  | 14   | 10  | 4 C | 4.75  | 6 | 8.75  | 4 C |

| M      | N     | P     | Q     | R     | S     | T     | U     |
|--------|-------|-------|-------|-------|-------|-------|-------|
| 5.364  | 6.605 | 1.240 | 7.805 | 1.220 | 1.220 | 6.605 | 1.5   |
| 8.061  | 11    | 2     | 13    | 1.820 | 1.820 | 11    | 1.875 |
| 10.728 | 13.21 | 2.48  | 15.61 | 2.44  | 2.44  | 13.21 | 2.25  |

COLORS: LEGEND & ARROW — BLACK  
PED SYMBOL — BLACK  
BACKGROUND — WHITE (RETROREFLECTIVE)  
YIELD SYMBOL — RED (RETROREFLECTIVE)

X-XX

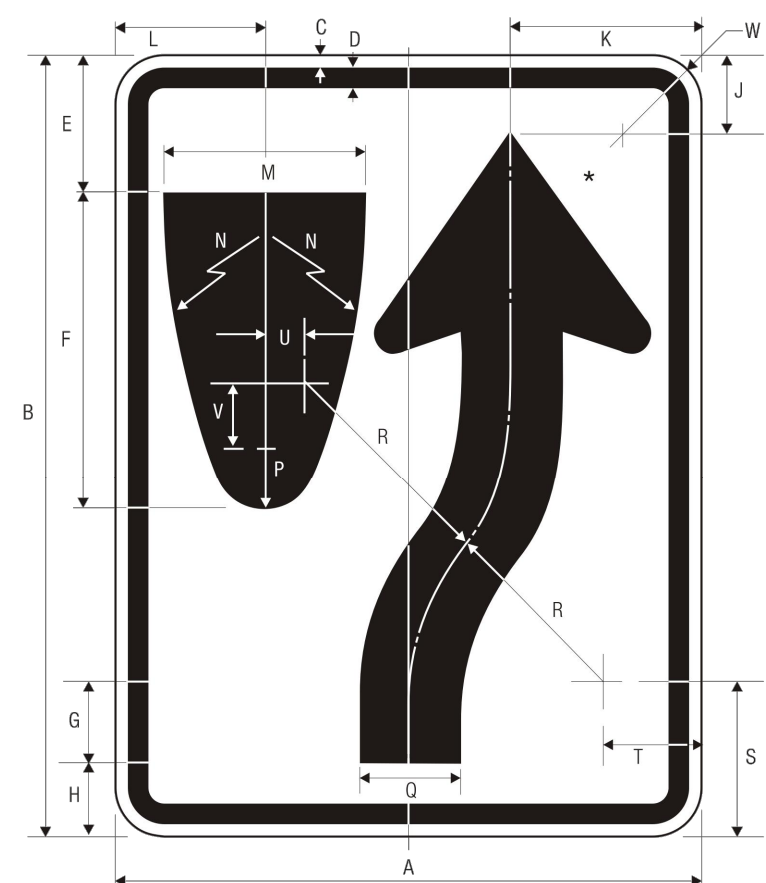


COLORS: LEGEND — BLACK  
BACKGROUND — WHITE (RETROREFLECTIVE)

1-117

R9-3b  
USE CROSSWALK

\*See page 6-2 for arrow design



R4-7  
KEEP RIGHT

\*See page 6-2 for arrow design.

| A  | B  | C    | D    | E     | F     | G     | H    | J     | K      | L     | M     |
|----|----|------|------|-------|-------|-------|------|-------|--------|-------|-------|
| 12 | 18 | .375 | 4.38 | 4     | 5.5   | 11    | 3.28 | 3.28  | 3.96   | 3.526 | 3.472 |
| 18 | 24 | .375 | .625 | 3.375 | 9.375 | 1.875 | 2.25 | 1.375 | 5.5    | 4.688 | 6     |
| 24 | 30 | .375 | .625 | 4.5   | 12.5  | 2.5   | 3    | 1.875 | 7.375  | 6.25  | 8     |
| 36 | 48 | .625 | .875 | 6.75  | 18.75 | 3.75  | 4.5  | 2.813 | 11.125 | 9.375 | 12    |
| 48 | 60 | .75  | 1.25 | 9     | 25    | 5     | 6    | 3.75  | 14.813 | 12.5  | 16    |

| N    | P    | Q    | R     | S     | T     | U     | V     | W    |
|------|------|------|-------|-------|-------|-------|-------|------|
| 13   | .831 | 1.75 | 4.212 | 4.38  | 1.826 | .375  | .5    | 1.5  |
| 22.5 | 1.5  | 3    | 6.75  | 4.125 | 2.25  | 1.063 | 4.38  | 1.5  |
| 30   | 2    | 4    | 9     | 5.5   | 3     | 1.375 | 2.813 | 1.5  |
| 45   | 3    | 6    | 13.5  | 8.25  | 4.5   | 2     | 2.75  | 2.25 |
| 60   | 4    | 8    | 18    | 11    | 6     | 2.688 | 5     | 3    |

LEGEND — BLACK  
BACKGROUND — WHITE (RETROREFLECTIVE)

1-67



R2-1  
SPEED LIMIT (ENGLISH)

\*Optically space numerals about centerline

| A  | B  | C    | D    | E | F   | G | H    | J      | K      | L    |
|----|----|------|------|---|-----|---|------|--------|--------|------|
| 18 | 24 | .375 | .625 | 3 | 3 E | 2 | 8 E  | 7.888  | 5.5    | 1.5  |
| 24 | 30 | .375 | .625 | 4 | 4 E | 2 | 10 E | 9.563  | 7.313  | 1.5  |
| 36 | 48 | .625 | .875 | 6 | 6 E | 5 | 14 E | 14.375 | 11     | 2.25 |
| 48 | 60 | .75  | 1.25 | 8 | 8 E | 6 | 16 E | 19.125 | 14.625 | 3    |

COLORS: LEGEND — BLACK  
BACKGROUND — WHITE (RETROREFLECTIVE)

1-10



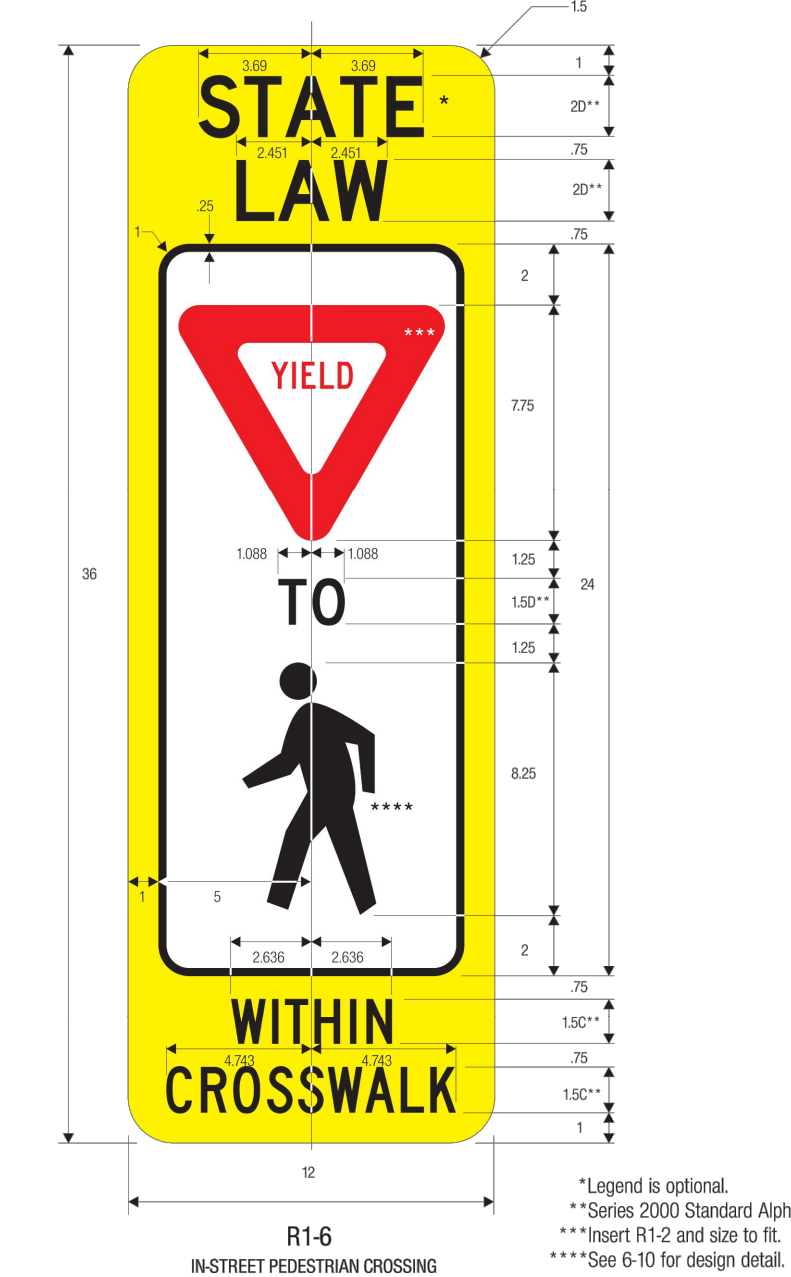
R-2R



W11-2  
W16-9p



W11-2  
W16-7pL

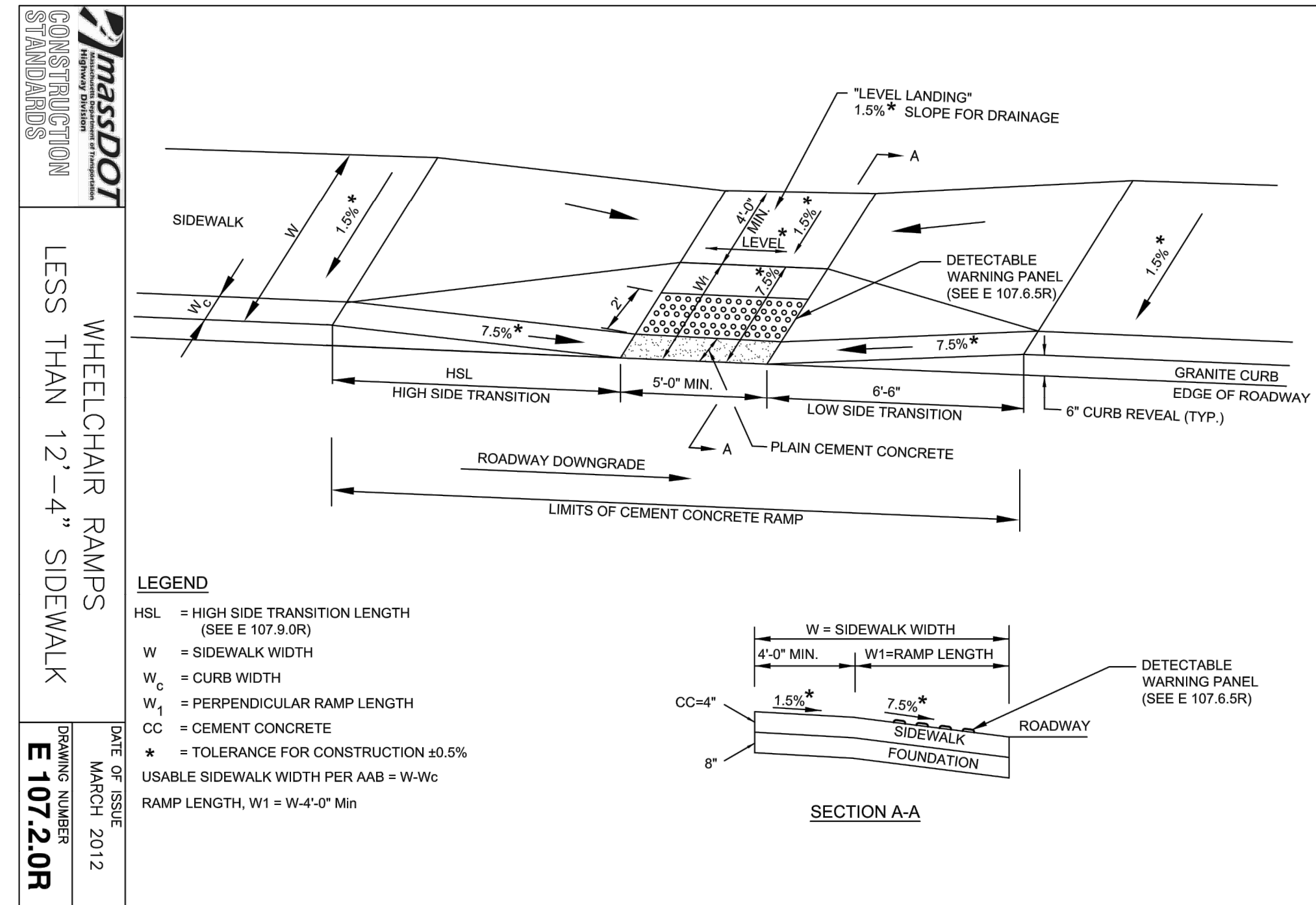


COLORS: LEGEND — BLACK  
BACKGROUND — FLUORESCENT YELLOW-GREEN, OR YELLOW (RETROREFLECTIVE)  
YIELD SYMBOL — RED (RETROREFLECTIVE) ON WHITE (RETROREFLECTIVE)  
PED SYMBOL — BLACK ON WHITE (RETROREFLECTIVE)

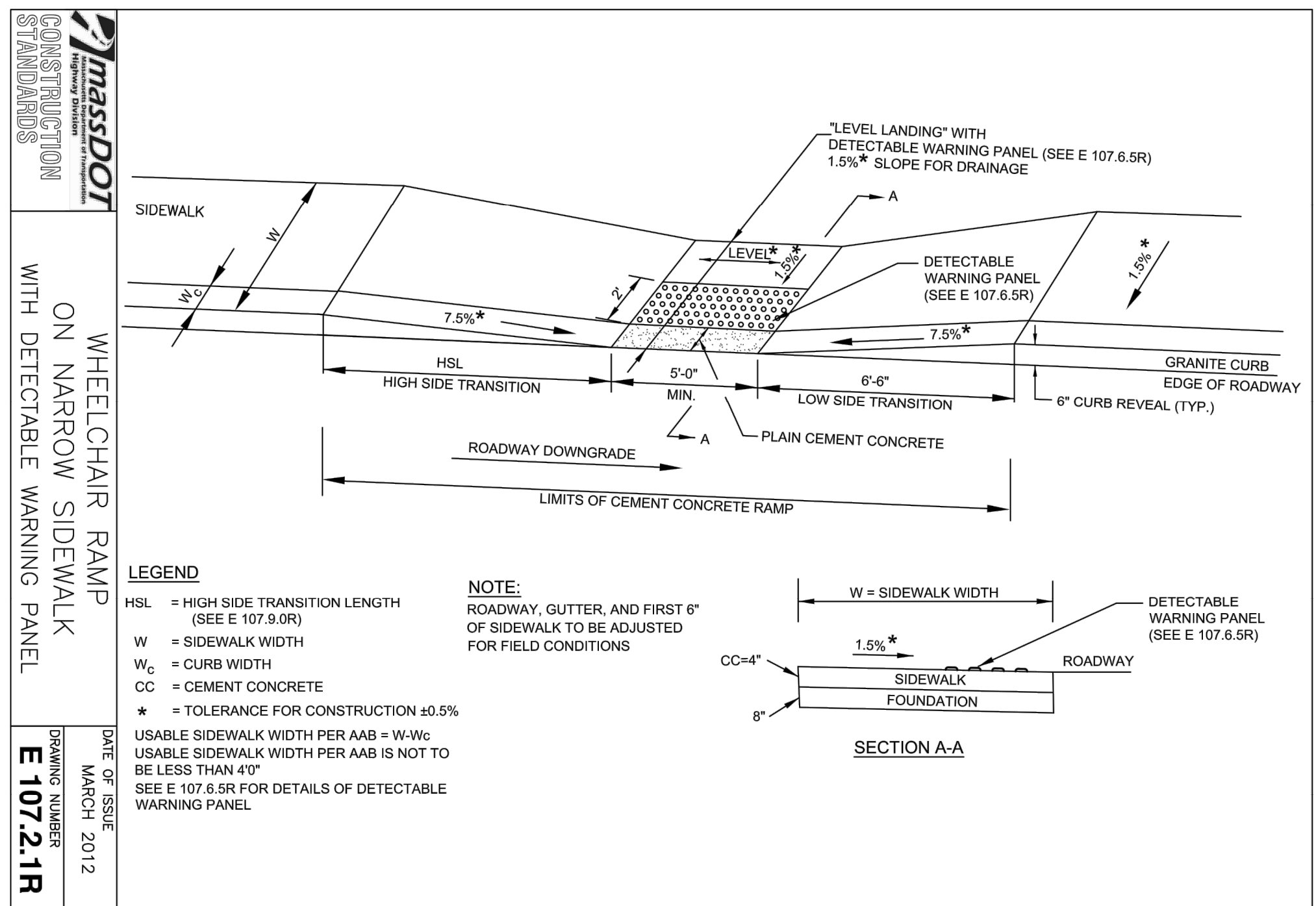
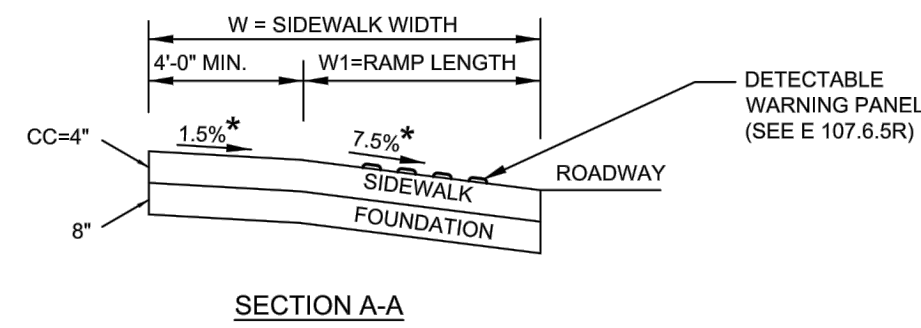
1-8

\*Legend is optional  
\*\*Series 2000 Standard Alphabets  
\*\*\*Insert R1-2 and size to fit.  
\*\*\*\*See 6-10 for design detail.

|                                                                     |      |                                                                                 |          |
|---------------------------------------------------------------------|------|---------------------------------------------------------------------------------|----------|
|                                                                     |      | TOWN OF WEST TISBURY, MASSACHUSETTS                                             |          |
|                                                                     |      | COMPLETING STATE ROAD                                                           |          |
| SIGN DETAILS                                                        |      |                                                                                 |          |
|                                                                     |      |                                                                                 |          |
| SNELL ENGINEERING CENTER<br>110 FORSYTH ST<br>BOSTON, MA 02110-2378 |      | NORTHEASTERN UNIVERSITY<br>DEPARTMENT OF CIVIL AND<br>ENVIRONMENTAL ENGINEERING |          |
| APPROVED BY:                                                        |      | Date:                                                                           |          |
| Manager of Design:                                                  |      | Date:                                                                           |          |
| ISSUE                                                               | DATE | DESCRIPTION                                                                     | BY       |
|                                                                     |      |                                                                                 | CHKD APP |
| HORIZ: AS NOTED                                                     |      | DES BY                                                                          | DR BY    |
| VERT: AS NOTED                                                      |      | CHK BY                                                                          | CHK BY   |
| DATE: 04/17/2019                                                    |      | MCA                                                                             | MCA/KK   |
| PLAN NO.                                                            |      | SHEET 13 OF 15                                                                  |          |
| ISSUE                                                               |      |                                                                                 |          |

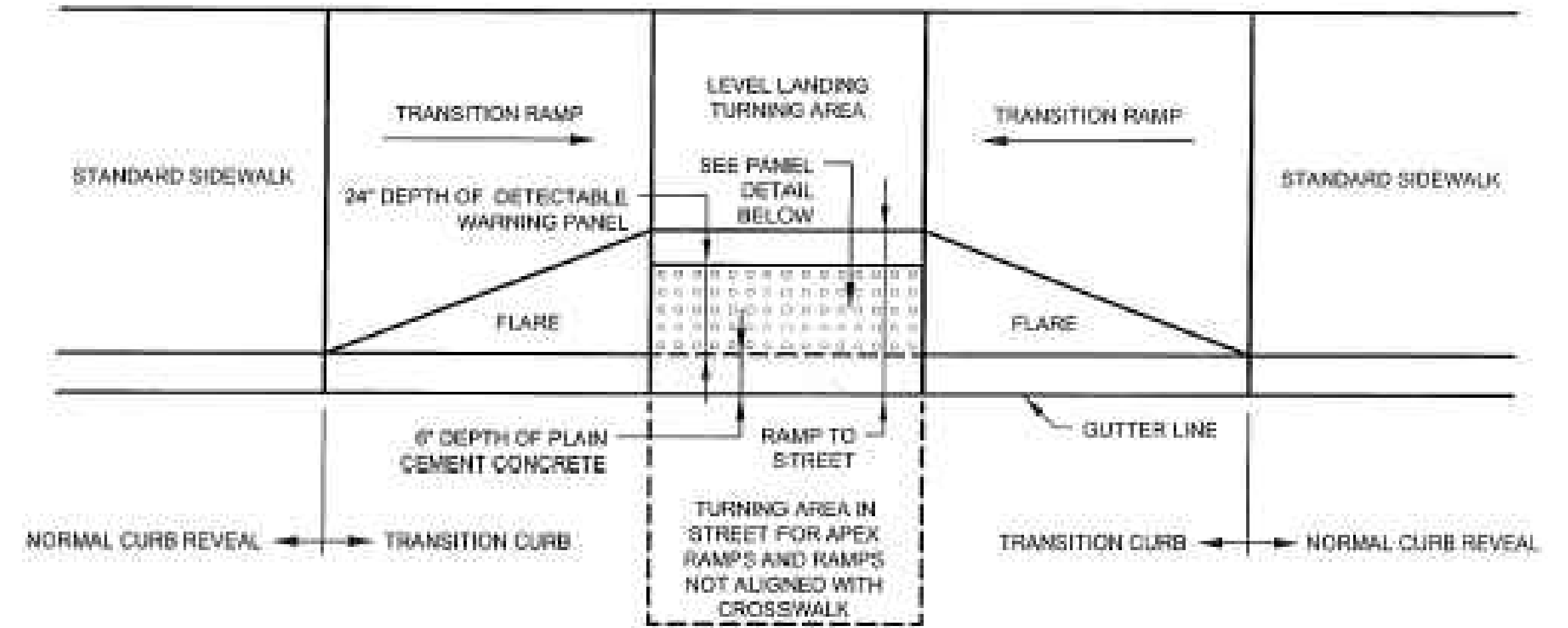
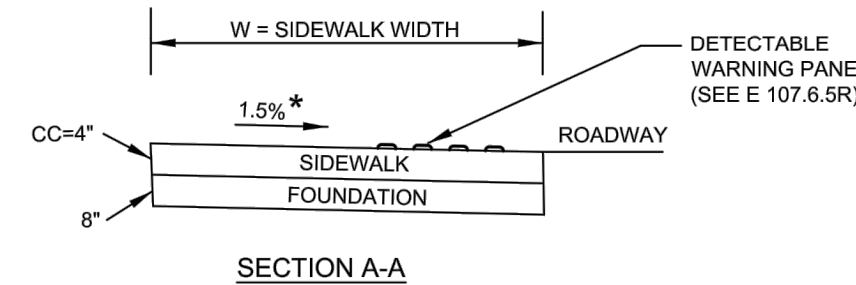


**LEGEND**  
 HSL = HIGH SIDE TRANSITION LENGTH (SEE E 107.9.0R)  
 W = SIDEWALK WIDTH  
 W<sub>c</sub> = CURB WIDTH  
 W<sub>1</sub> = PERPENDICULAR RAMP LENGTH  
 CC = CEMENT CONCRETE  
 \* = TOLERANCE FOR CONSTRUCTION ±0.5%  
 USABLE SIDEWALK WIDTH PER AAB = W-W<sub>c</sub>  
 RAMP LENGTH, W<sub>1</sub> = W-4'-0" Min

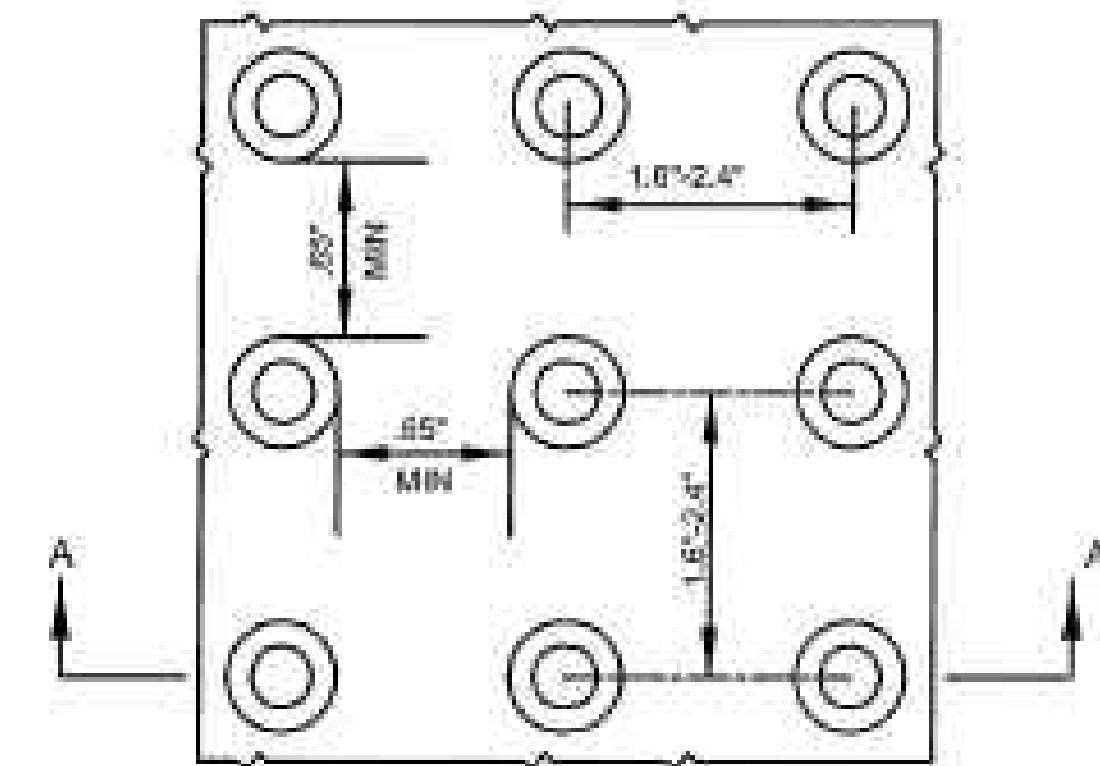


**LEGEND**  
 HSL = HIGH SIDE TRANSITION LENGTH (SEE E 107.9.0R)  
 W = SIDEWALK WIDTH  
 W<sub>c</sub> = CURB WIDTH  
 CC = CEMENT CONCRETE  
 \* = TOLERANCE FOR CONSTRUCTION ±0.5%  
 USABLE SIDEWALK WIDTH PER AAB = W-W<sub>c</sub>  
 USABLE SIDEWALK WIDTH PER AAB IS NOT TO BE LESS THAN 4'0"  
 SEE E 107.6.5R FOR DETAILS OF DETECTABLE WARNING PANEL

**NOTE:**  
 ROADWAY, GUTTER, AND FIRST 6" OF SIDEWALK TO BE ADJUSTED FOR FIELD CONDITIONS



**TYPICAL INSTALLATION**



**DETAIL OF DETECTABLE WARNING PANEL**



**SECTION A-A**

**NOTE:**

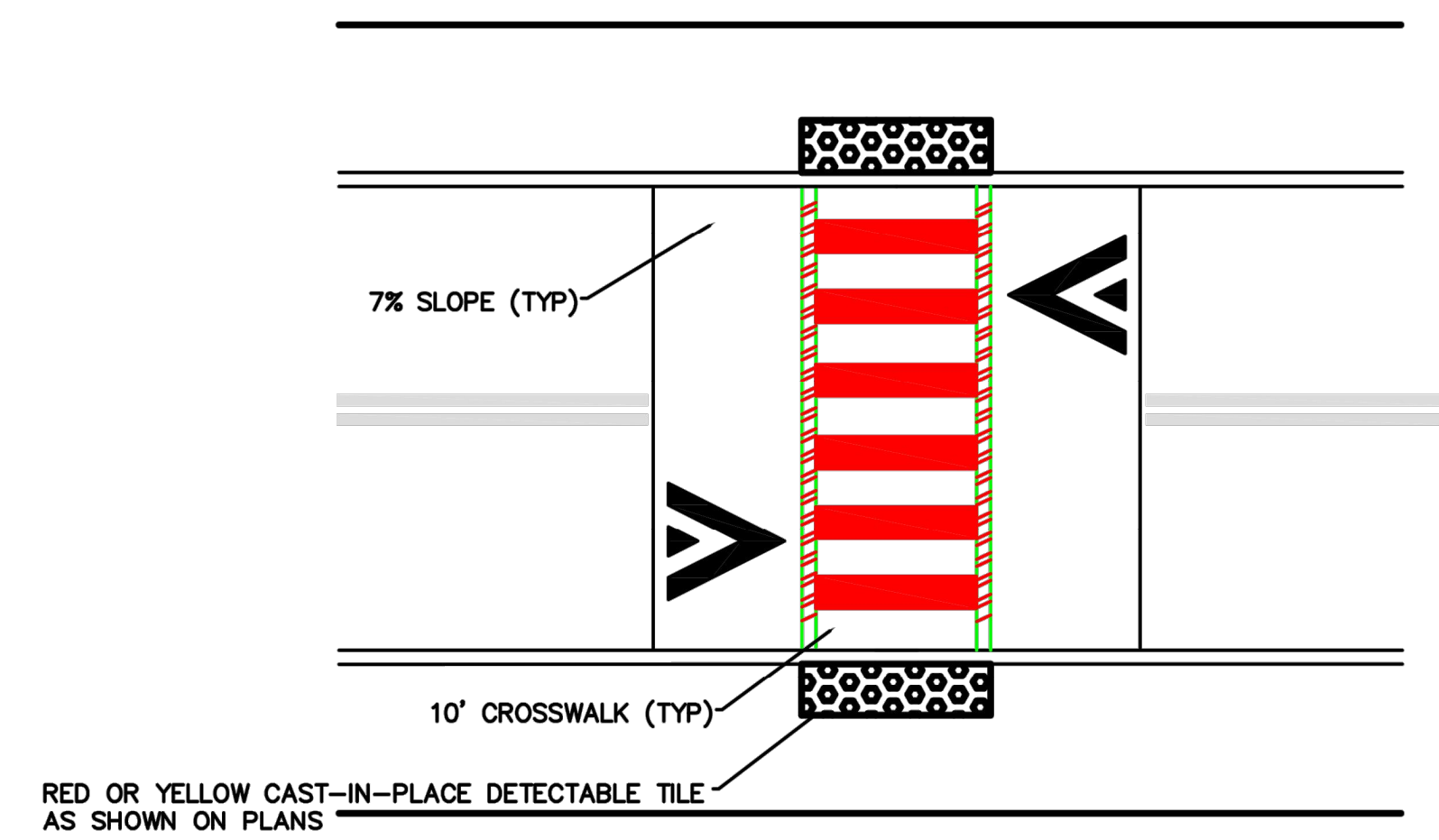
PANELS MAY BE CONCRETE PRECAST OR CAST IN PLACE OR OTHER SUITABLE MATERIAL PERMANENTLY APPLIED TO THE RAMP. DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH ADJACENT WALKING SURFACES EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT.

|                                                                     |                                                                     |                                                                                                                                                                  |
|---------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                     | TOWN OF WEST TISBURY, MASSACHUSETTS                                 |                                                                                                                                                                  |
|                                                                     | COMPLETING STATE ROAD                                               |                                                                                                                                                                  |
|                                                                     | CONSTRUCTION DETAILS 1                                              |                                                                                                                                                                  |
|                                                                     | SNELL ENGINEERING CENTER<br>110 FORSYTH ST<br>BOSTON, MA 02110-2378 |                                                                                                                                                                  |
|                                                                     | APPROVED BY: _____<br>Manager of Design: _____ Date: _____          |                                                                                                                                                                  |
| SNELL ENGINEERING CENTER<br>110 FORSYTH ST<br>BOSTON, MA 02110-2378 |                                                                     |                                                                                                                                                                  |
| APPROVED BY: _____<br>Manager of Design: _____ Date: _____          |                                                                     | NORTHEASTERN UNIVERSITY<br>DEPARTMENT OF CIVIL AND<br>ENVIRONMENTAL ENGINEERING                                                                                  |
| HORIZ: AS NOTED<br>VERT: AS NOTED<br>DATE: 04/17/2019               |                                                                     | DES BY: MCA<br>DR BY: MCA<br>CHK BY: MCA<br>PLAN NO.: SHEET 14 OF 15<br>ISSUE: <span style="border: 1px solid black; border-radius: 50%; padding: 2px;"> </span> |

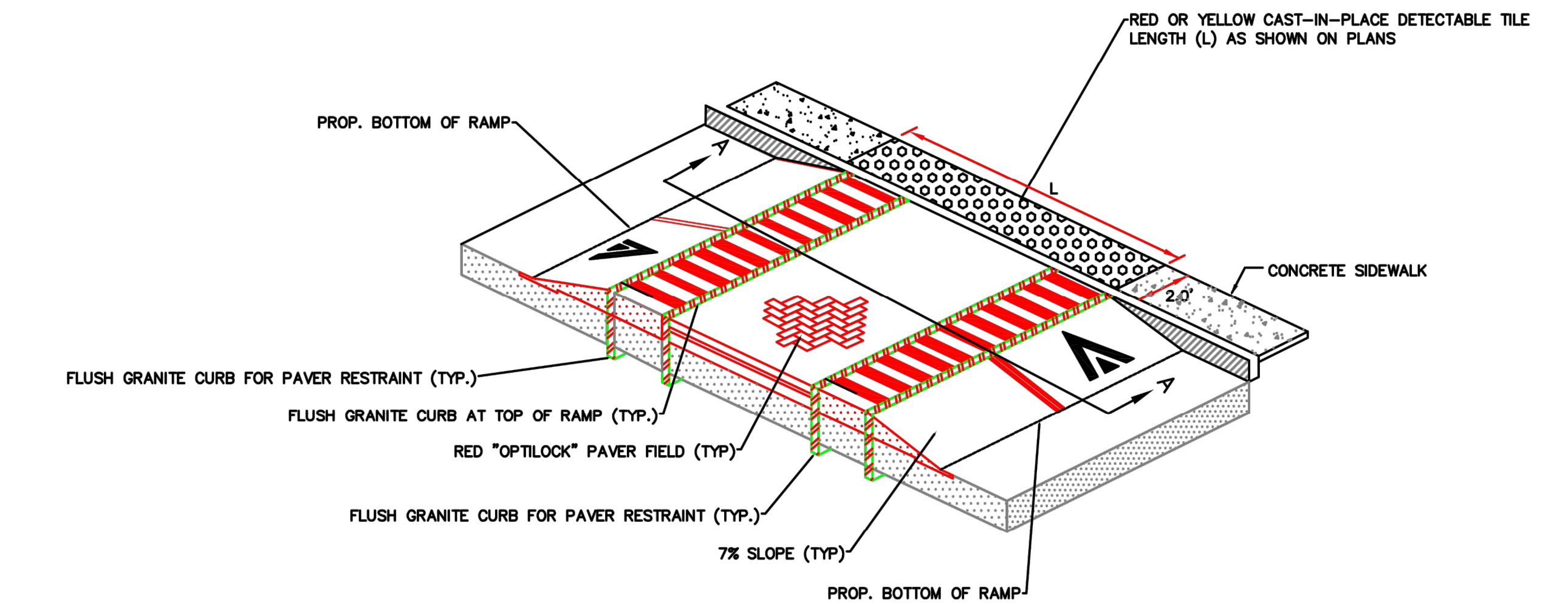
MASSDOT CONSTRUCTION STANDARDS  
 WHEELCHAIR RAMPS LESS THAN 12'-4" SIDEWALK  
 DRAWING NUMBER E 107.2.0R  
 DATE OF ISSUE MARCH 2012

MASSDOT CONSTRUCTION STANDARDS  
 WHEELCHAIR RAMP ON NARROW SIDEWALK WITH DETECTABLE WARNING PANEL  
 DRAWING NUMBER E 107.2.1R  
 DATE OF ISSUE MARCH 2012

RAISED INTERSECTION / RAISED CROSSWALK DETAILS

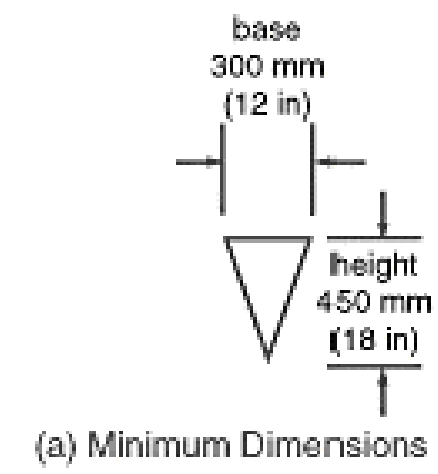
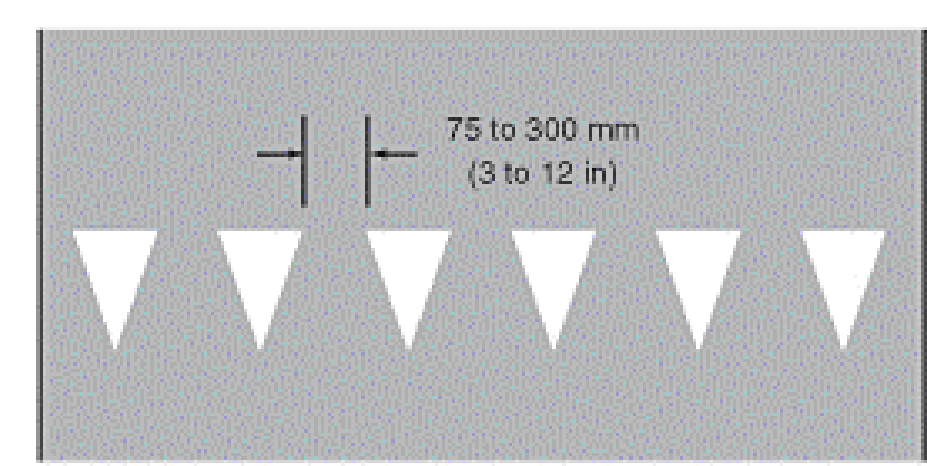


MID-BLOCK RAISED CROSSWALK PLAN  
NTS

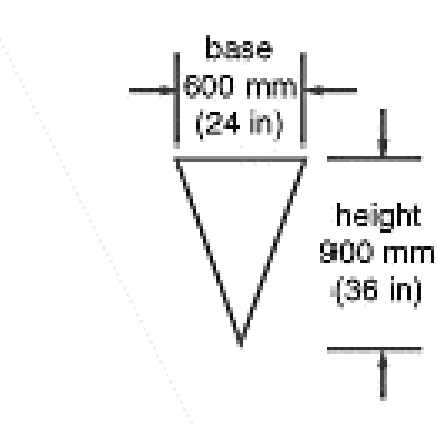
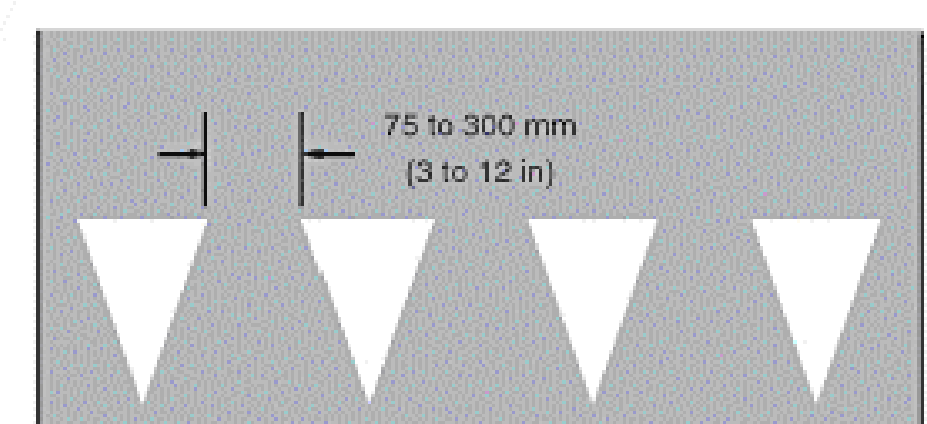


MID-BLOCK RAISED CROSSWALK ISOMETRIC PLAN  
NTS

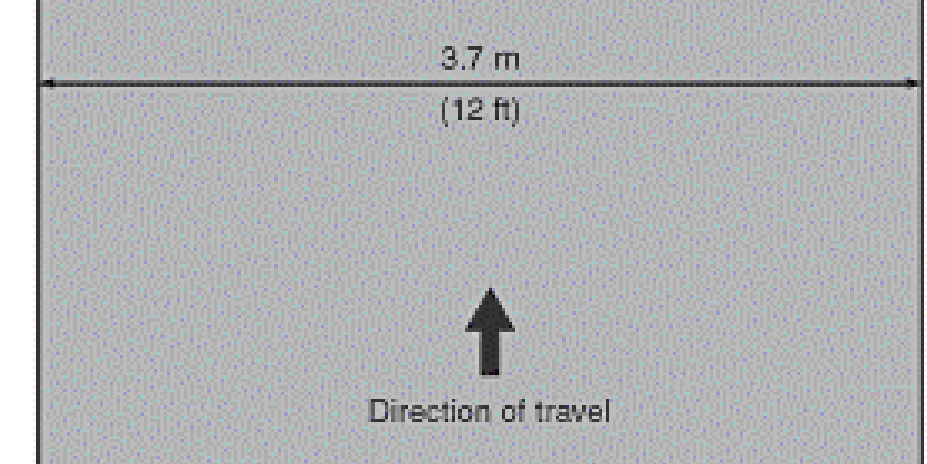
Figure 3B-14. Examples of Yield Line Layouts



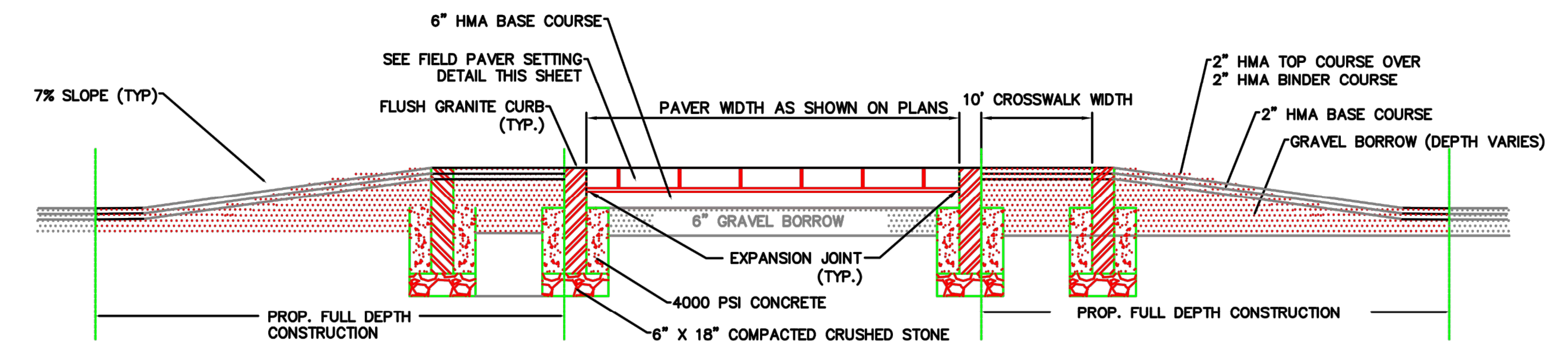
(a) Minimum Dimensions



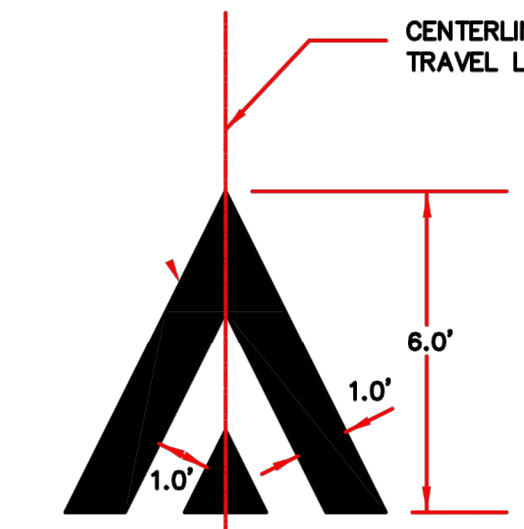
(b) Maximum Dimensions



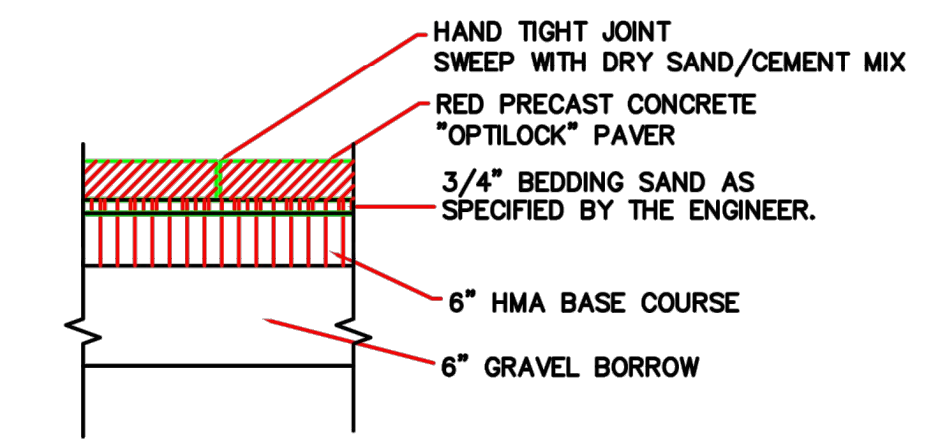
Notes:  
Triangle height is equal to 1.5 times the base dimension.  
Yield lines may be smaller than suggested when installed on much narrower, slow-speed facilities such as shared-use paths.



SECTION A-A



RAMP MARKING DETAIL  
NTS



"FIELD" PAVER SETTING DETAIL  
NTS

|                                                         |  |                                                                                                                                               |  |
|---------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------|--|
|                                                         |  | TOWN OF WEST TISBURY, MASSACHUSETTS                                                                                                           |  |
|                                                         |  | COMPLETING STATE ROAD                                                                                                                         |  |
|                                                         |  | CONSTRUCTION DETAILS 2                                                                                                                        |  |
|                                                         |  | SNELL ENGINEERING CENTER<br>110 FORSYTH ST<br>BOSTON, MA 02110-2378<br>APPROVED BY: _____ Date: _____<br>Manager of Design: _____ Date: _____ |  |
| DESIGNED BY: MCA<br>CHECKED BY: MCA<br>DATE: 04/17/2019 |  | PLAN NO. _____<br>SHEET 15 OF 15<br>ISSUE _____                                                                                               |  |