

# CITY OF SOMERVILLE

PLAN AND PROFILE OF  
**BROADWAY**  
 (MCGRATH HIGHWAY TO WISCONSIN AVENUE)  
 IN THE CITY OF  
**SOMERVILLE**  
 MIDDLESEX COUNTY

**SOMERVILLE  
 BROADWAY**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	1	10
PROJECT FILE NO.		XXXXXX	

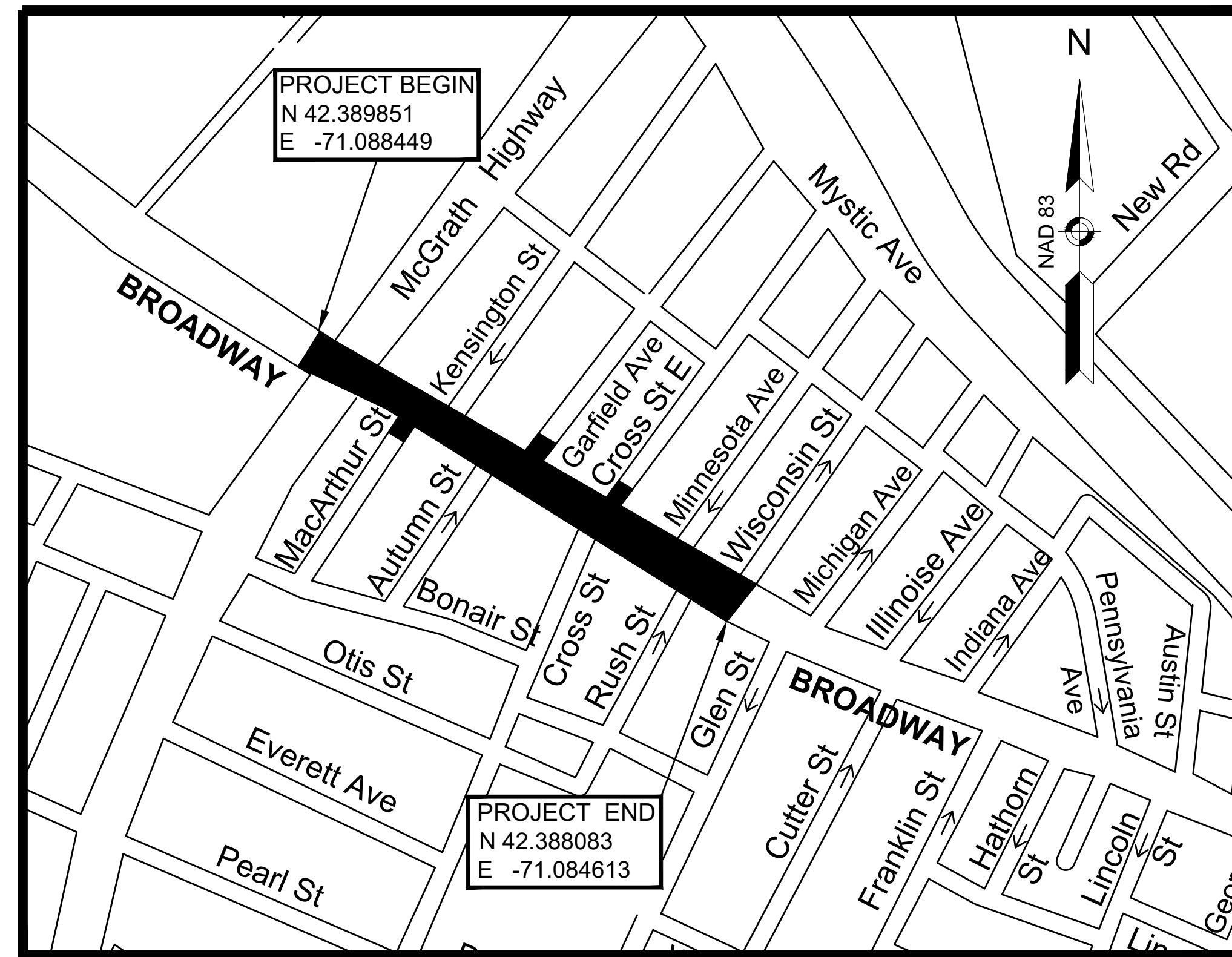
**TITLE SHEET, LEGEND &  
 ABBREVIATIONS**

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.

## 100%/PS&E SUBMITTAL

INDEX

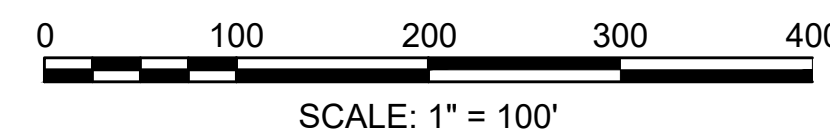
SHEET NO.	DESCRIPTION
1	TITLE SHEET & INDEX
2	NOTES & DETAILS
3-5	PAVEMENT MARKING ERADICATION PLANS
6-8	SIGN & PAVEMENT MARKING PLANS
9	TRAFFIC SIGN SUMMARY
10	SPECIAL SIGN DETAILS



PROJECT BEGIN  
 N 42.389851  
 E -71.088449

PROJECT END  
 N 42.388083  
 E -71.084613

DESIGN DESIGNATION (BROADWAY)	
DESIGN SPEED	30 MPH
ADT (2020)	22,249
FUNCTIONAL CLASSIFICATION	PRINCIPAL ARTERIAL - OTHER



LENGTH OF PROJECT = 1,295 FEET = 0.25 MILES

DATE	DESCRIPTION	REV #
4/14/2023	Final Submission	0
<b>DESIGNER:                  MASSDOT HIGHWAY DESIGN</b>		
<b>APPROVED</b>		
CITY OF SOMERVILLE		DATE

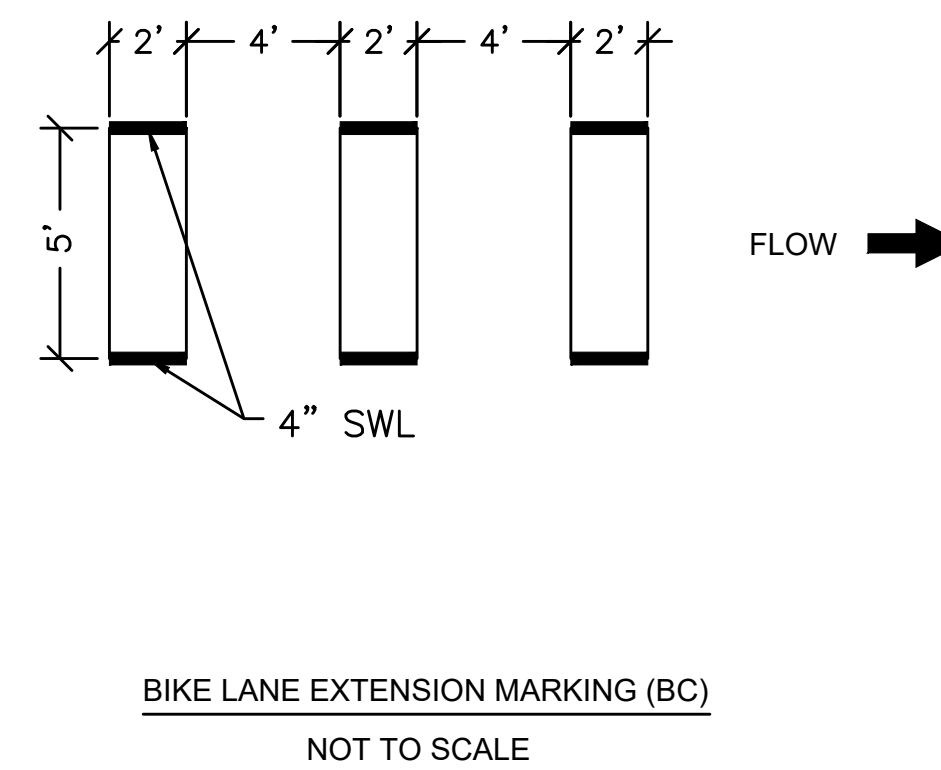
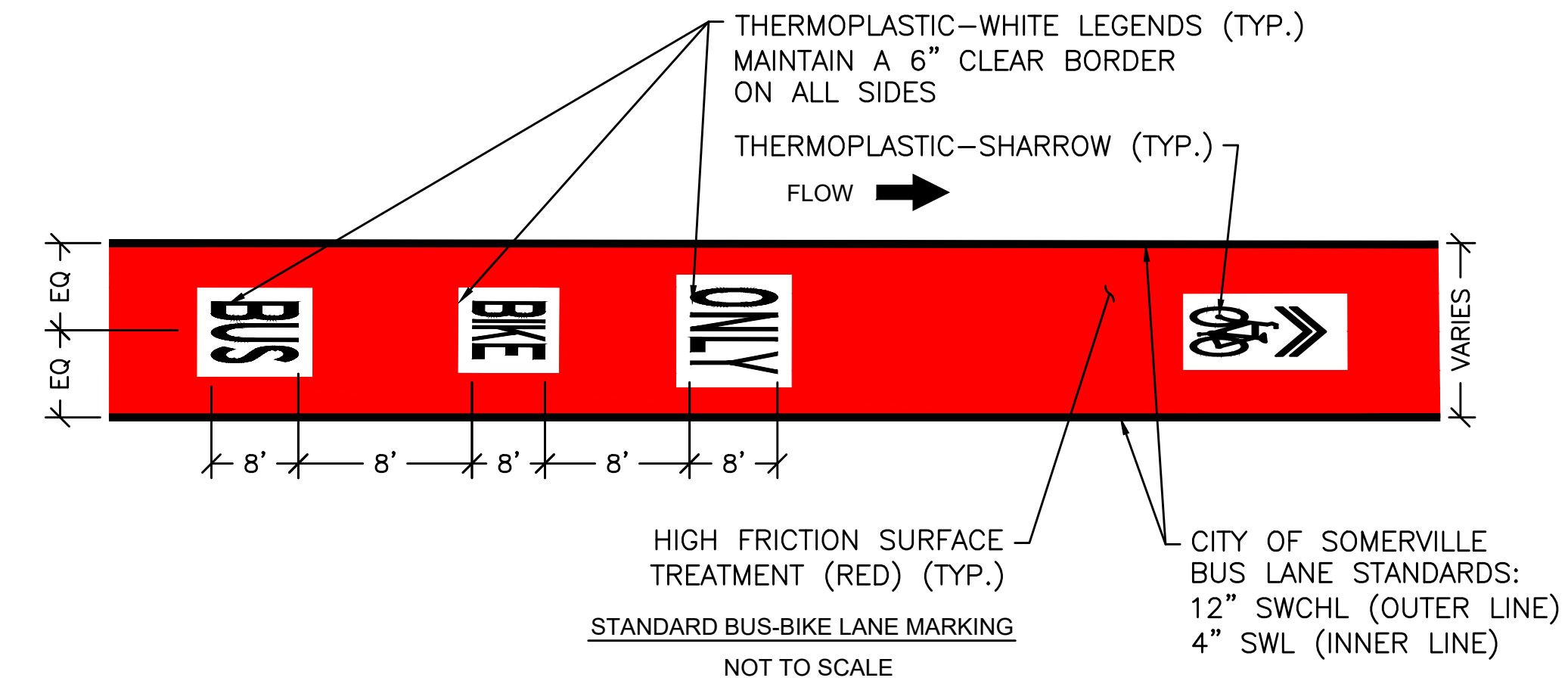
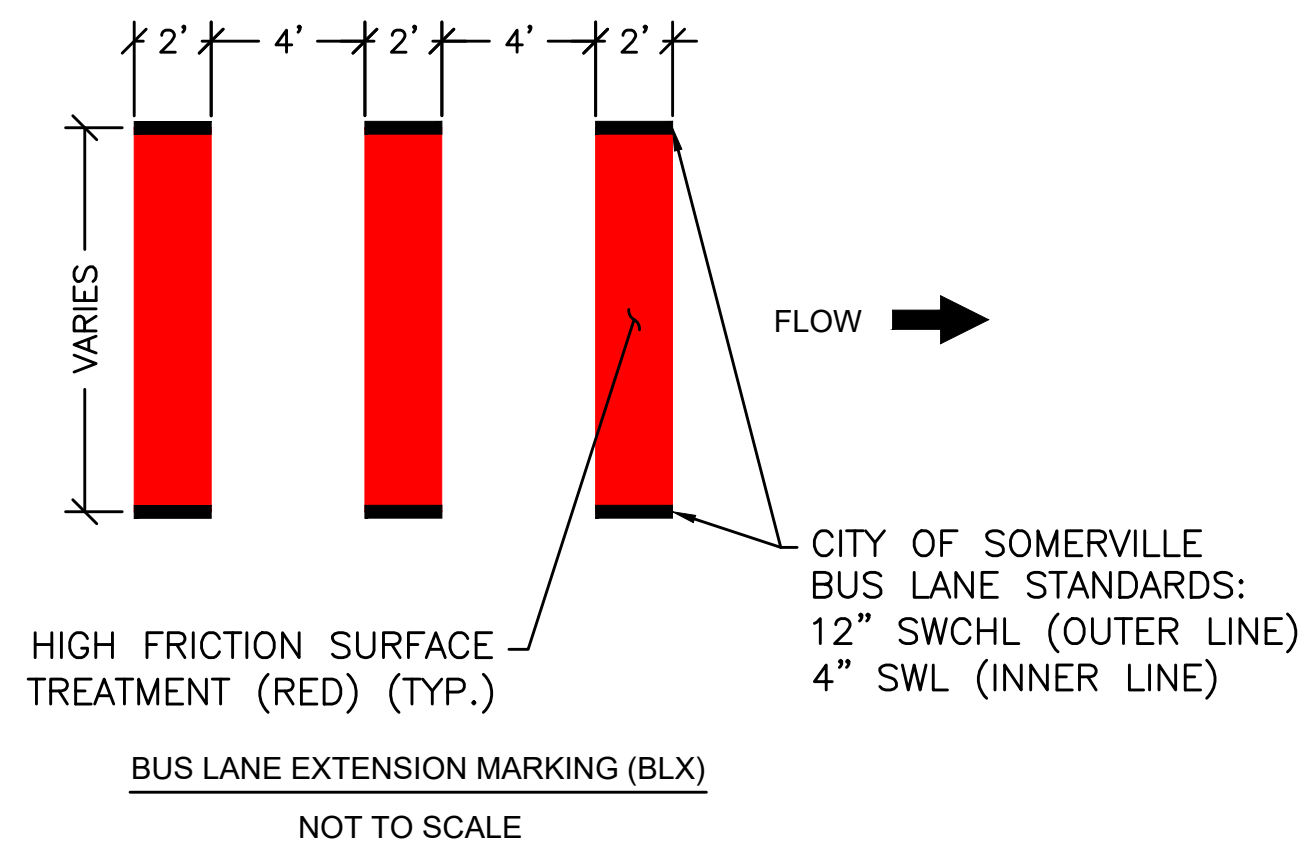
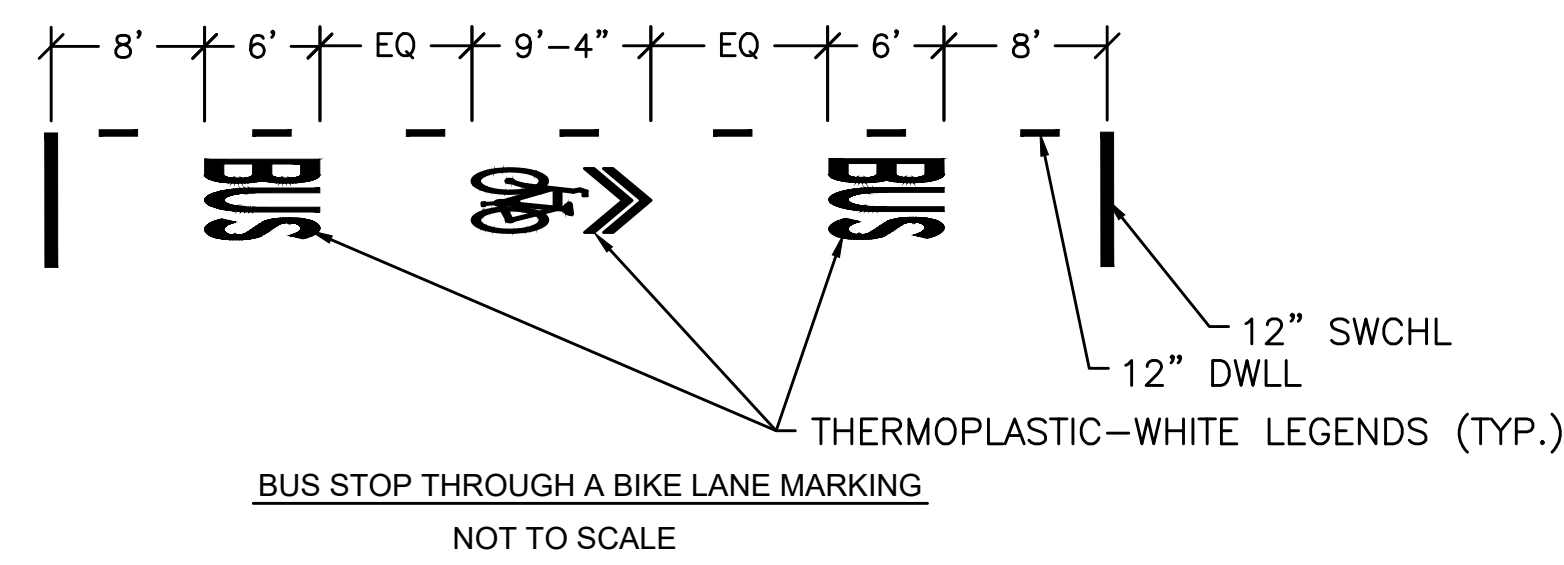
**SOMERVILLE  
BROADWAY**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	2	10
PROJECT FILE NO.		XXXXXX	

**NOTES & DETAILS**

**GENERAL NOTES**

- FOR FULL PROJECT LENGTH, ALL EXISTING SIGNS & SIGN POSTS ARE TO BE RETAINED, UNLESS OTHERWISE NOTED OR AS DIRECTED BY THE FIELD ENGINEER.
- ALL SIGNS SHALL CONFORM TO THE MANUAL ON UNIVERSAL TRAFFIC CONTROL DEVICES (MUTCD) 2009 EDITION WITH REVISIONS AND AS AMENDED BY THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION.
- THE MINIMUM SIGN MOUNTING HEIGHT, MEASURED VERTICALLY FROM THE BOTTOM OF THE LOWEST SIGN TO THE TOP OF THE CURB OR SIDEWALK, SHALL BE 7 FEET UNLESS OTHERWISE SPECIFIED ON THE PLANS.
- WHEN MOUNTING NEW SIGNS & POSTS, CONTRACTOR SHALL NOT PLACE THEM WHERE THE VISIBILITY OF THE SIGN WILL BE OBSTRUCTED. THE SIGNS SHALL BE UNOBSTRUCTED TO ALL ROAD USERS. IF THE NEW SIGN POST IS IN CONFLICT WITH OTHER SURFACE STRUCTURES, THE PROBLEM SHALL BE REPORTED TO THE FIELD ENGINEER.
- ALL SIGNS MOUNTED ALONG THE SIDE STREETS SHALL REMAIN IN PLACE.
- IF NECESSARY, CONFLICTING EXISTING PAVEMENT MARKINGS SHALL BE REMOVED BY USING CITY APPROVED METHODS ONLY.
- DAYLIGHTING MARKINGS ARE COMPOSED OF 4 INCH SOLID WHITE LINES (SWL) WITH HATCHING 5 FOOT ON-CENTER (O.C.) AT 45 DEGREES AT THE WIDTH OF EXISTING PARKING LANES (OR 7 FOOT IF UNMARKED). DAYLIGHTING MARKINGS LENGTHS ARE 20 FEET FROM THE EDGE OF CROSSWALK UNLESS AT LOCATIONS WITH TRAFFIC CONTROL DEVICES LOCATED AT THE SIDE OF THE ROADWAY, WHICH INCREASES LENGTH TO 30 FEET. DAYLIGHTING MARKINGS WITH NO MARKED CROSSWALK ARE MEASURED FROM EXTENSION OF THE BACK OF THE SIDEWALK LINE OR THE POINT OF CURVATURE ON THE CURB.
- ALL LANE LINES EXCEPT FOR THE OUTER BUS LANE LINE TO BE APPLIED WITH 4-INCH THERMOPLASTIC PAVEMENT MARKINGS.
- ALL CROSSWALKS, STOP LINES, OUTER BUS LANE LINES, AND BUS STOP EDGE LINES TO BE APPLIED IN 12 INCH THERMOPLASTIC PAVEMENT MARKINGS.
- ALL SYMBOLS TO BE APPLIED USING THERMOPLASTIC. PRE-FORMED THERMOPLASTIC IS ACCEPTABLE FOR SYMBOLS THAT CANNOT BE FORMED WITH A HAND TRUCK.



**ABBREVIATIONS**

APPROX. APPROXIMATE	PED PEDESTRIAN
AUX AUXILIARY	PVMT PAVEMENT
BLVD BOULEVARD	R RADIUS OF CURVATURE
CB CATCH BASIN	RET RETAIN
CC CEMENT CONCRETE	R&D REMOVE & DISCARD
CEN CENTER	R&R REMOVE & RESET
CI CURB INLET	R&S REMOVE & STACK
CIP CAST IRON PIPE	ROW RIGHT OF WAY
CL CENTER LINE	RP REMOVE PANEL
CONC CONCRETE	RP&P REPLACE POST & PANEL
EB EASTBOUND	SB SOUTHBOUND
EL ELEVATION	SHLD SHOULDER
EP EDGE OF PAVEMENT	SW SIDEWALK
EQ EQUIDISTANT	ST STREET
EX EXISTING	TAN TANGENT
GD GROUND	TEMP TEMPORARY
GRAN GRANITE	TYP TYPICAL
LO LAYOUT	VAR VARIABLE
LP LIGHT POLE	WB WESTBOUND
MED MEDIAN	
MH MANHOLE	
MNT MOUNT	
NB NORTHBOUND	
O.C. ON CENTER	

**PAVEMENT MARKING LEGEND**

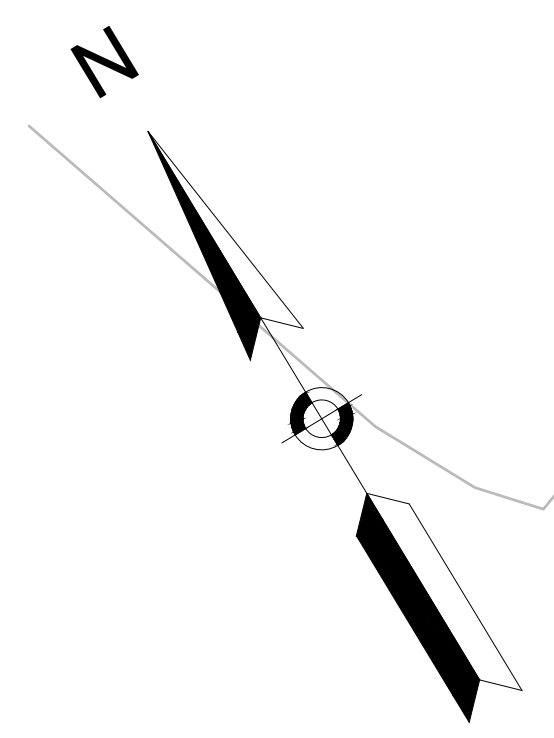
	SWEL	4" SOLID WHITE EDGE LINE
	SWL	4" SOLID WHITE LINE
	SWBL	8" SOLID WHITE BIKE LINE
	SWCHL	12" SOLID WHITE CHANNELIZATION LINE
	SL	12" SOLID WHITE STOP LINE
	SYCL	6" SOLID YELLOW CENTER LINE
	DBYL	6" DOUBLE YELLOW LINE
	BWL	6" BROKEN WHITE LINE 10' MARK - 30' SKIP
	DWL <sub>ex</sub>	6" DOTTED WHITE LINE EXTENSION 2' MARK - 6' SKIP

EXISTING	PROPOSED	DESCRIPTION
		SIGN AND POST
		SIGN AND POST (2 POSTS)
		BIKE LANE SYMBOL
		SHARED LANE MARKING SYMBOL
		WHITE PAVEMENT LEGEND AND ARROW

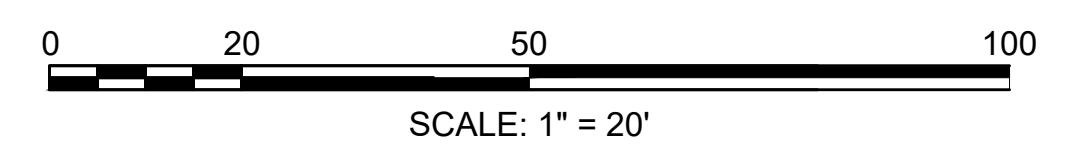
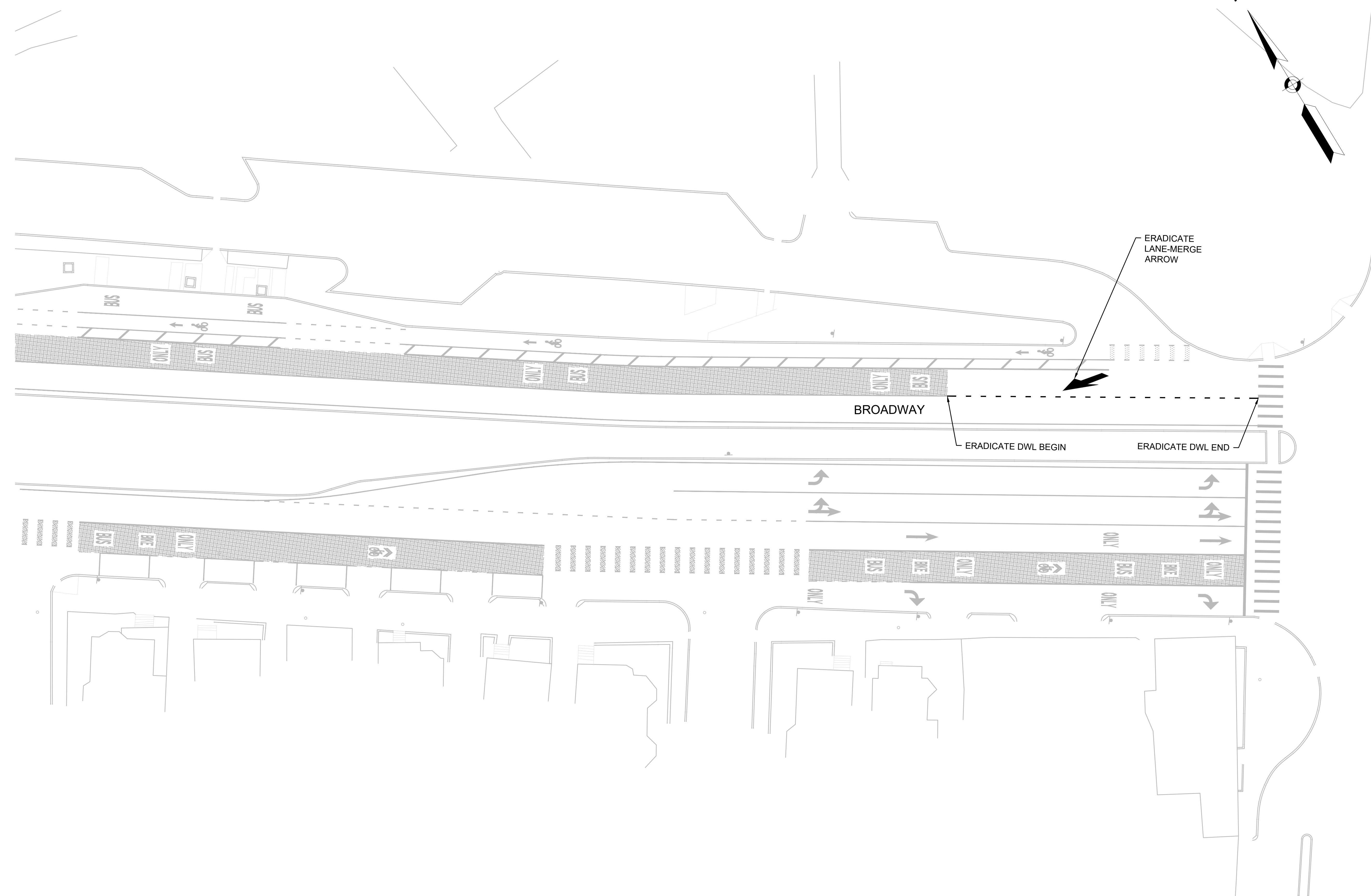
**SOMERVILLE  
BROADWAY**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	3	10
PROJECT FILE NO.		XXXXXX	

PAVEMENT MARKING ERADICATION PLAN (1 OF 3)



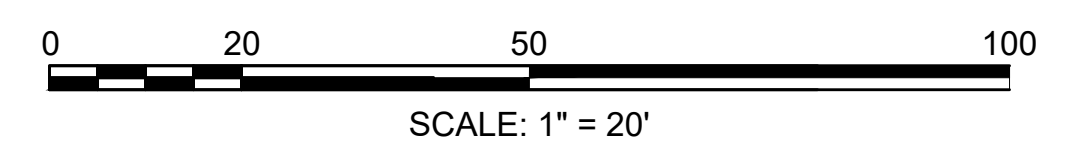
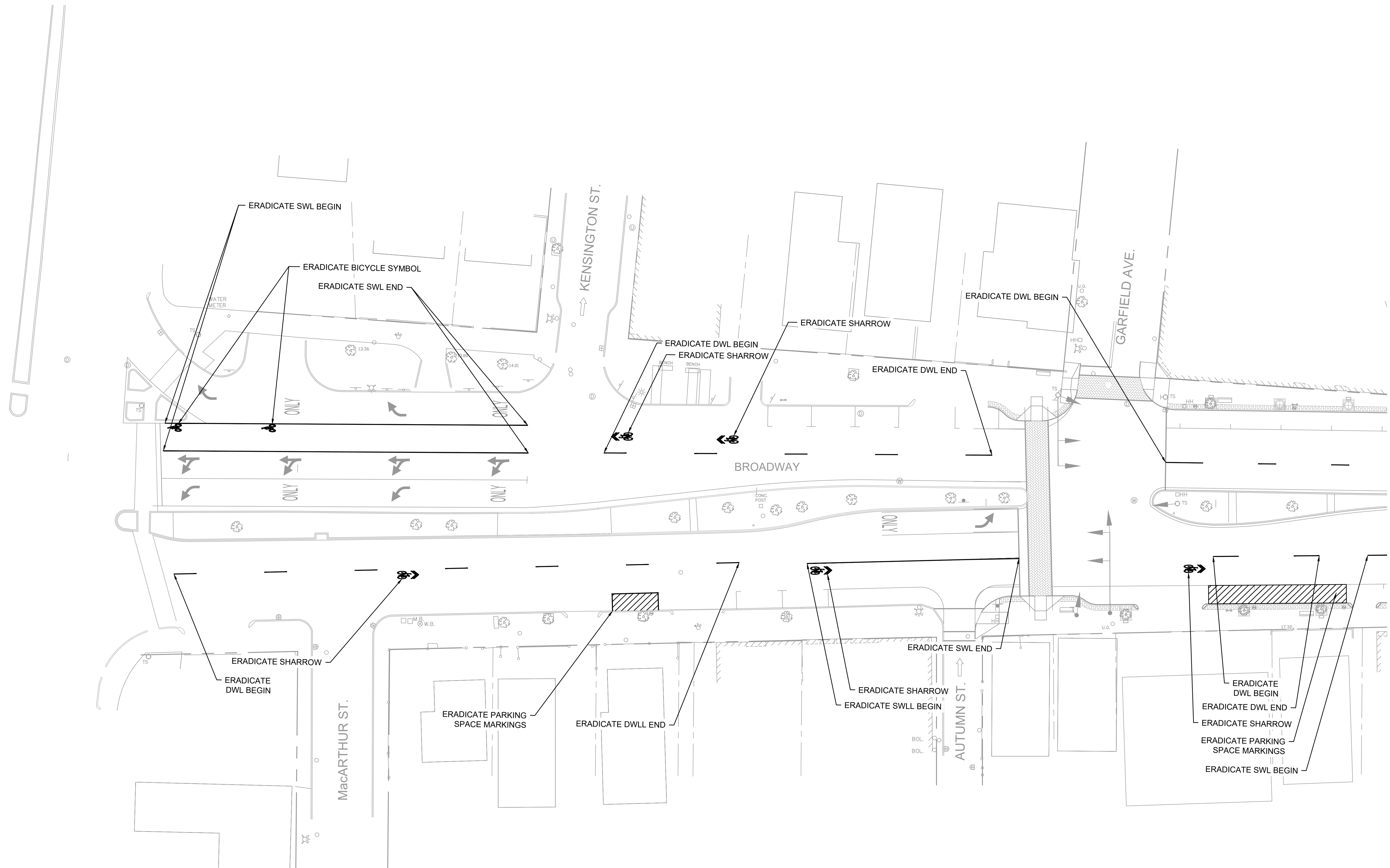
**MCGRATH HIGHWAY**



**SOMERVILLE  
BROADWAY**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
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PROJECT FILE NO.		XXXXXX	

**PAVEMENT MARKING ERADICATION PLAN (2 OF 3)**

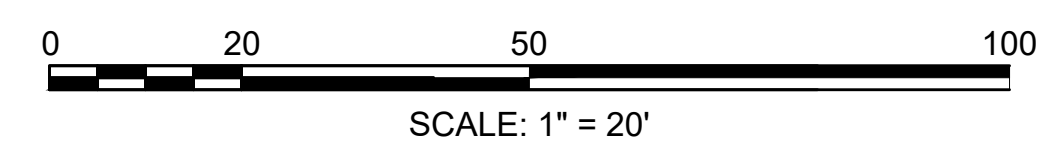
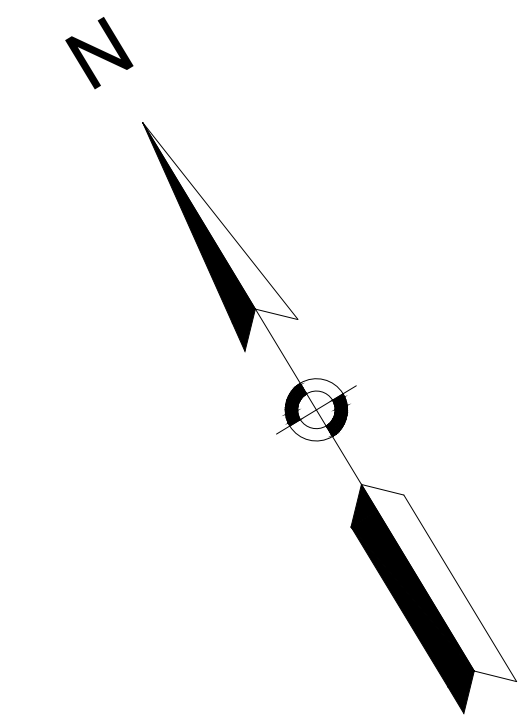
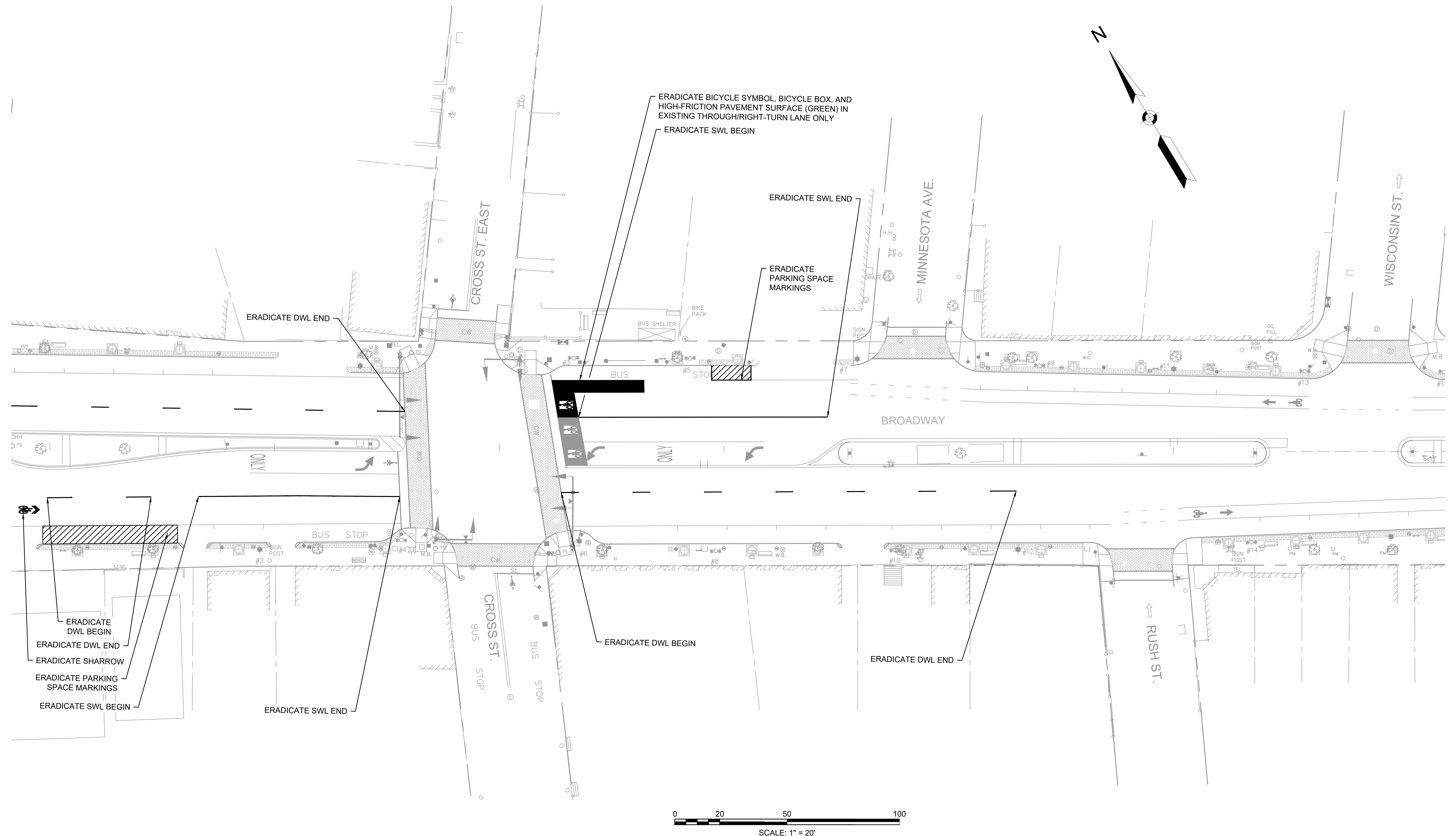




**SOMERVILLE  
BROADWAY**

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PROJECT FILE NO.		XXXXXX	

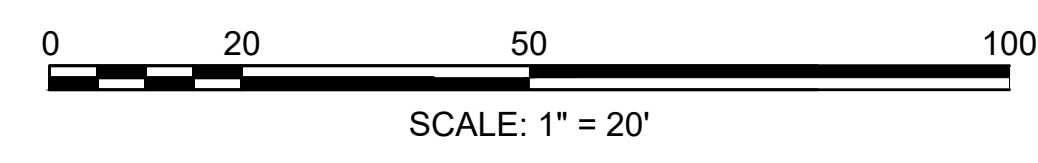
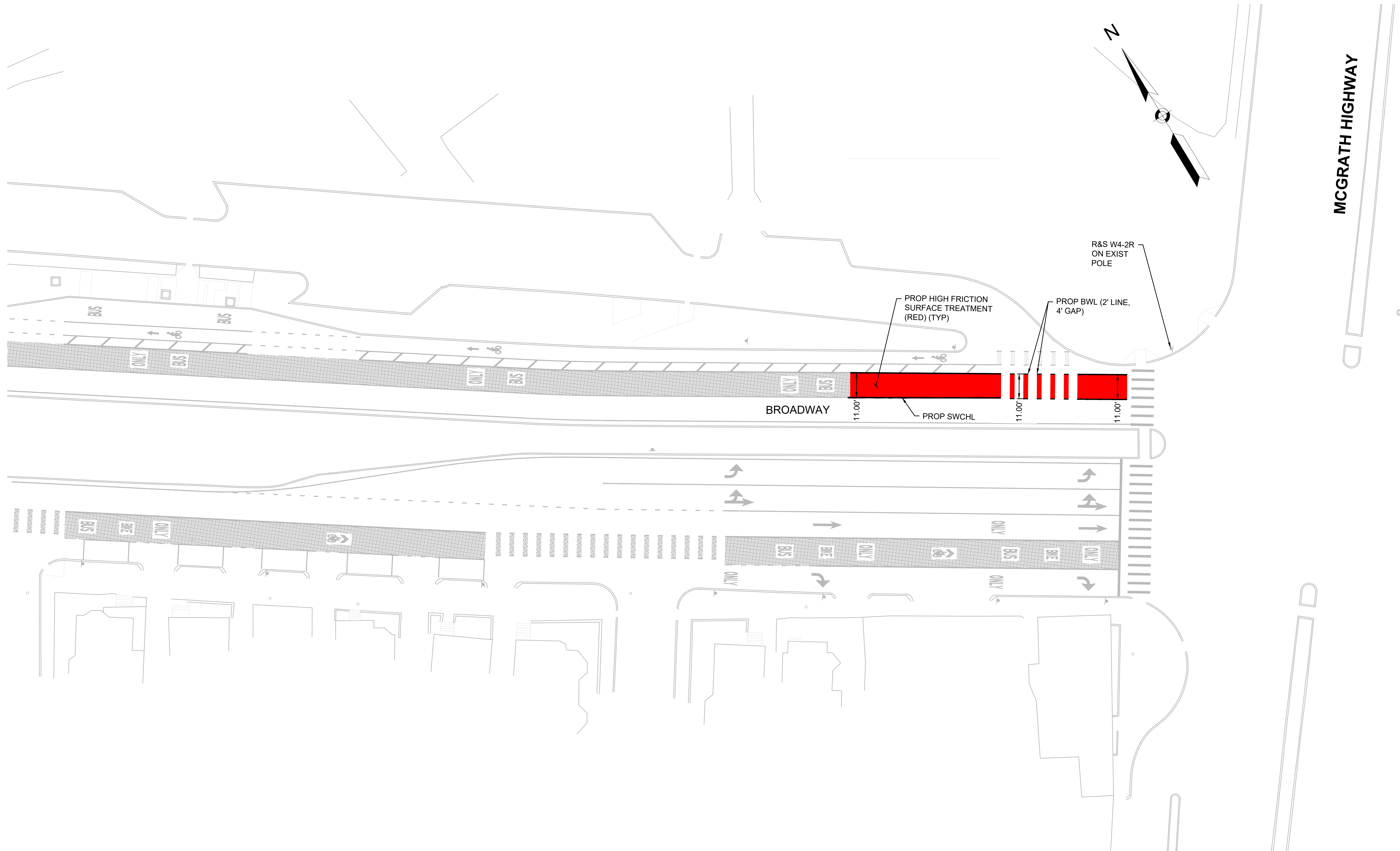
**PAVEMENT MARKING ERADICATION PLAN (3 OF 3)**



**SOMERVILLE  
BROADWAY**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
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PROJECT FILE NO.		XXXXXX	

**SIGN & PAVEMENT MARKING PLANS (1 OF 3)**



**MCGRATH HIGHWAY**

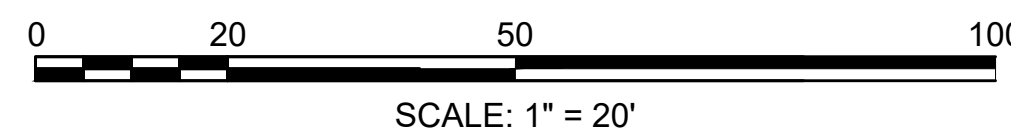
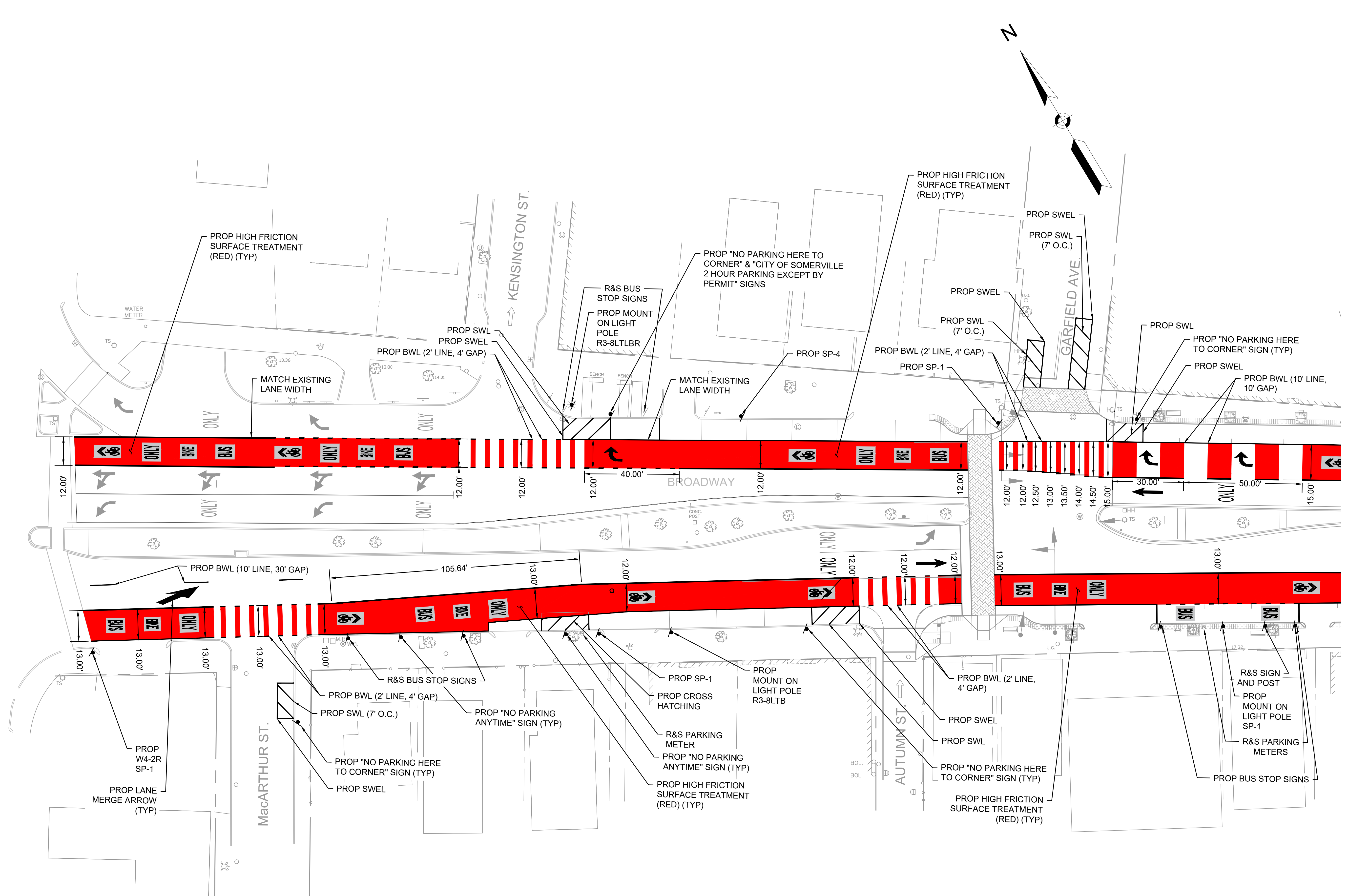
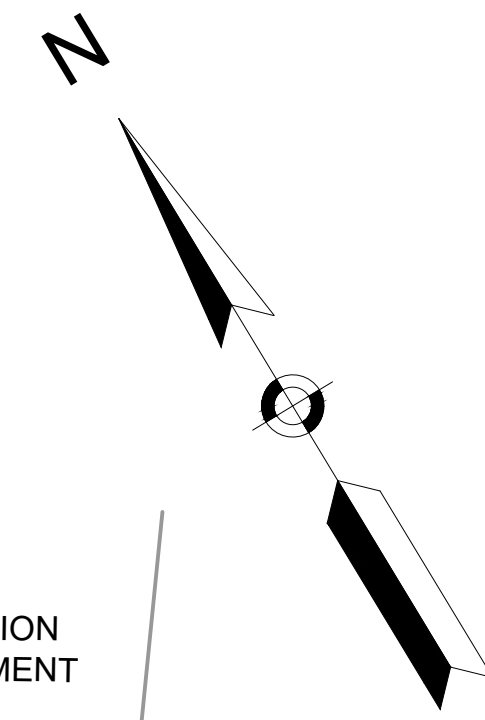


**SOMERVILLE  
BROADWAY**

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PROJECT FILE NO. XXXXXX			

**SIGN & PAVEMENT MARKING PLANS (2 OF 3)**

**MCGRATH HIGHWAY**

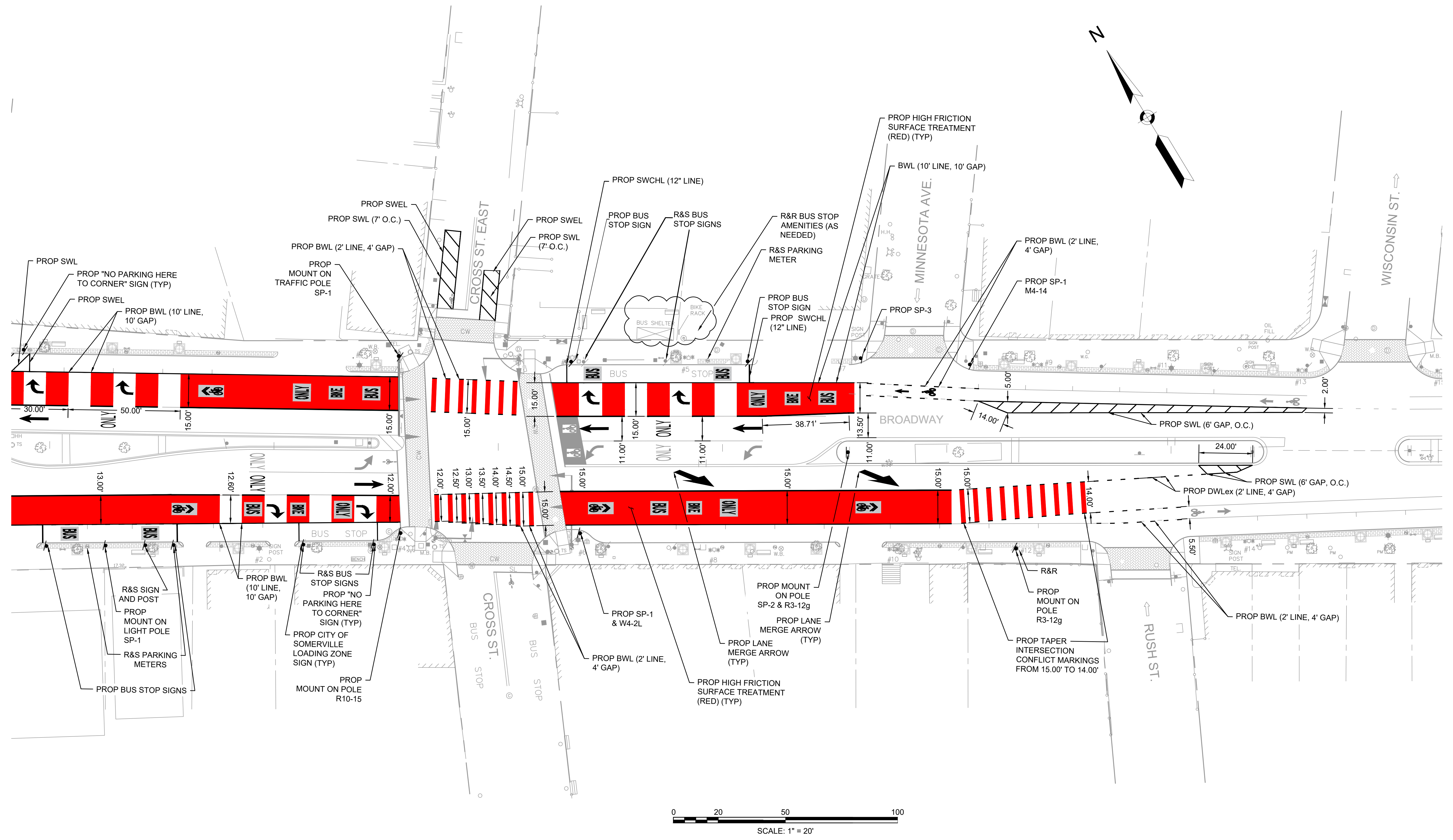




**SOMERVILLE  
BROADWAY**

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**SIGN & PAVEMENT MARKING PLANS (3 OF 3)**





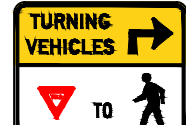


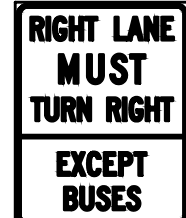







# TRAFFIC SIGN SUMMARY

SOMERVILLE BROADWAY			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	9	10
PROJECT FILE NO. XXXXXX			

TRAFFIC SIGN SUMMARY SHEET

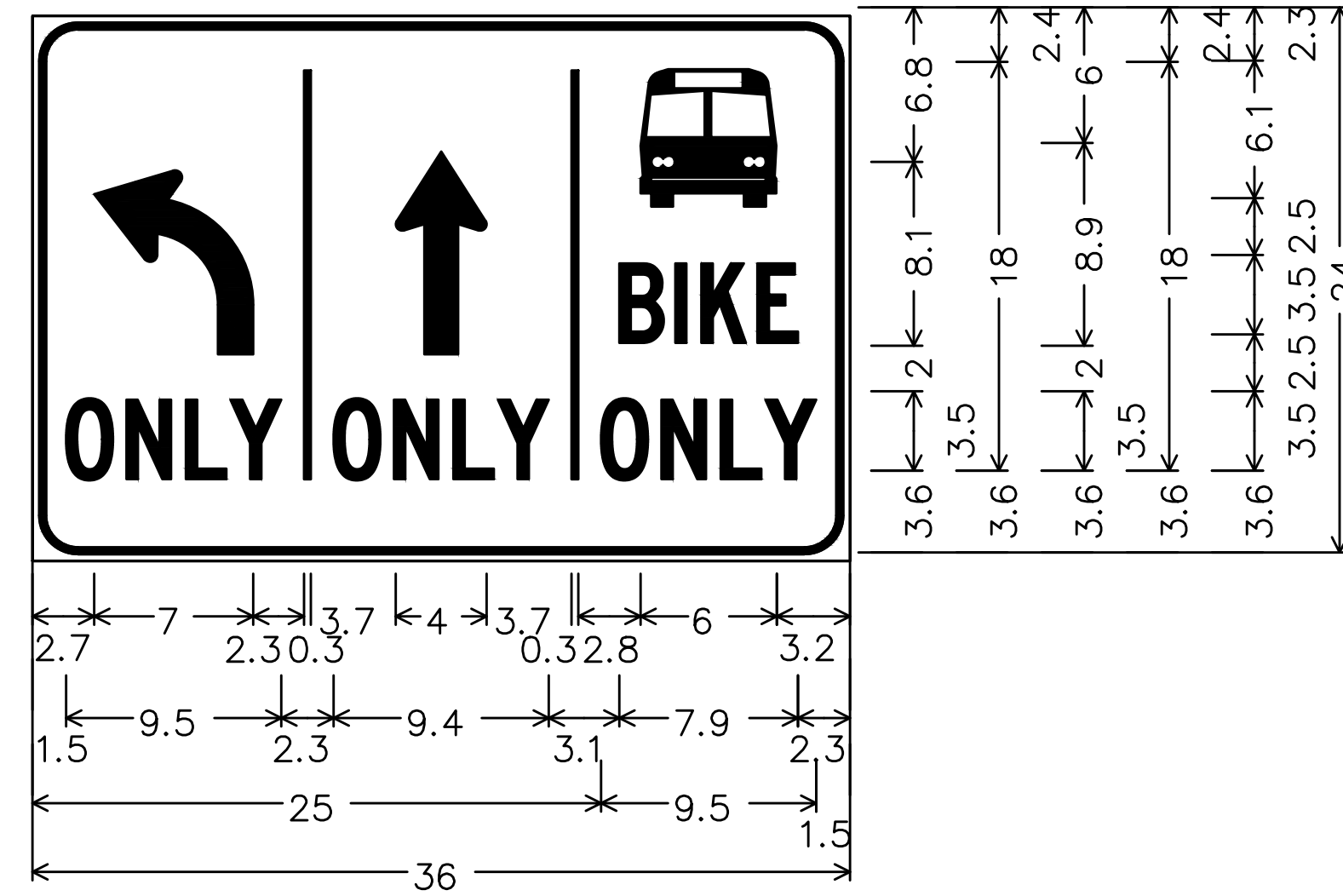
IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR			POST SIZE AND NUMBER REQUIRED	UNIT AREA (S.F.)	AREA IN SQUARE FEET
	WIDTH (IN.)	HEIGHT (IN.)		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND	BORDER			
M4-14	30	12		SEE 2009 MUTCD			1	WHITE	BLACK	BLACK	MNT 1 ON 2" POST	2.5	2.50
R3-8LTB	36	30		SEE SHEET 10 FOR SIGN DETAILS			1	WHITE	BLACK	BLACK	MNT 1 ON EXIST POLE	12.50	12.50
R3-8LTBR	48	30		SEE SHEET 10 FOR SIGN DETAILS			1	WHITE	BLACK	BLACK	MNT 1 ON EXIST POLE	17.50	17.50
R3-12G	30	42		SEE 2009 MUTCD			2	WHITE	BLACK	BLACK	MNT 2 ON EXIST POLES	8.75	17.50
R10-15	30	30		SEE 2009 MUTCD			1	YELLOW WHITE	BLACK	BLACK	MNT 1 ON EXIST POLE	6.25	6.25
SP-1	24	30		3C 3C 3D 3D 3D 3D	2.3 2.2 3.7 2.3 2.3 2.3	N/A	7	BLACK  WHITE	WHITE  BLACK	BLACK	MNT 2 ON EXIST POLES AND 2" POST (5)	5	35.00
SP-2	24	36		SEE SHEET 10 FOR SIGN DETAILS			1	RED WHITE YELLOW	RED  BLACK	BLACK	MNT 1 ON EXIST POLES	6	6.00
SP-3	30	42		SEE SHEET 10 FOR SIGN DETAILS			1	WHITE	BLACK	BLACK	MNT 1 ON 2" POST	8.75	8.75
SP-4	36	36		4C 4B 4C 4C	3.5 2.0 9.8 2.2	N/A	1	WHITE	BLACK	BLACK	MNT 1 ON EXIST POLE	9	9.00
W4-2R	30	30		SEE 2009 MUTCD			1	YELLOW	BLACK	BLACK	MNT 1 ON 2" POST	6.25	6.25
W4-2L	30	30		SEE 2009 MUTCD			1	YELLOW	BLACK	BLACK	MNT 1 ON EXIST POLE	6.25	6.25

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 (IN.)	HEIGHT (IN.)		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND	BORDER			
R7-1	12	18	CITY OF SOMERVILLE NO PARKING SIGN	SEE 2009 MUTCD			8	WHITE	RED	RED	MNT 2 ON EXISTING POLE AND 2" POST (6)	1.50	12.00
R7-6	12	18	CITY OF SOMERVILLE COMMERCIAL ZONE SIGN	SEE 2009 MUTCD			1	WHITE	RED	RED	MNT 1 ON EXIST POLE	1.50	1.50
R7-108	12	18	CITY OF SOMERVILLE STANDARD PARKING SIGN	SEE 2009 MUTCD			1	WHITE	GREEN	GREEN	MNT 1 ON EXIST POLE	1.50	1.50
R7-108	12	18	CITY OF SOMERVILLE 15 MINUTE PARKING SIGN	SEE 2009 MUTCD			1	WHITE	GREEN	GREEN	MNT 1 ON EXIST POLE	1.50	1.50

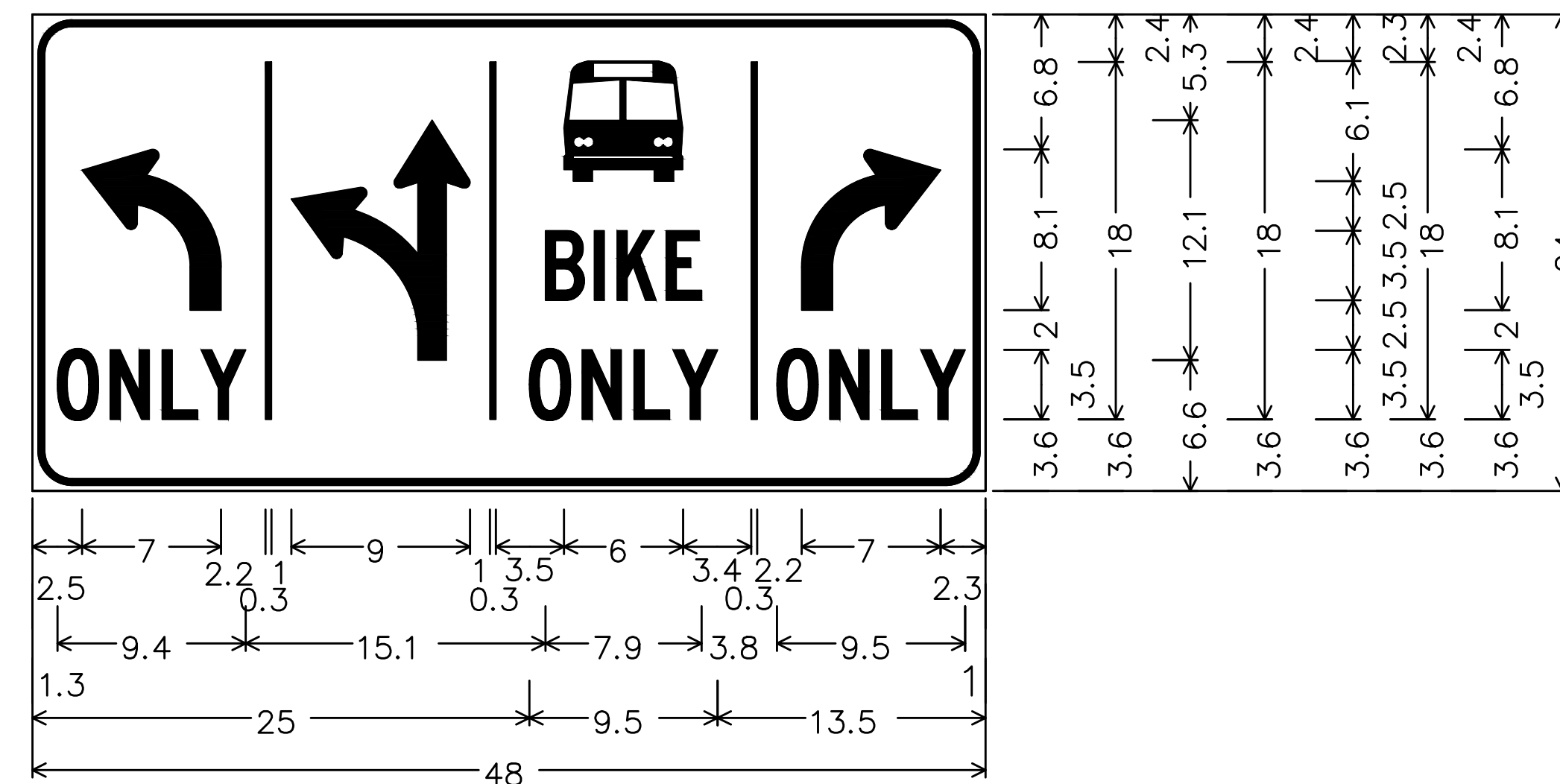
**SOMERVILLE  
BROADWAY**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
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PROJECT FILE NO.		XXXXXX	

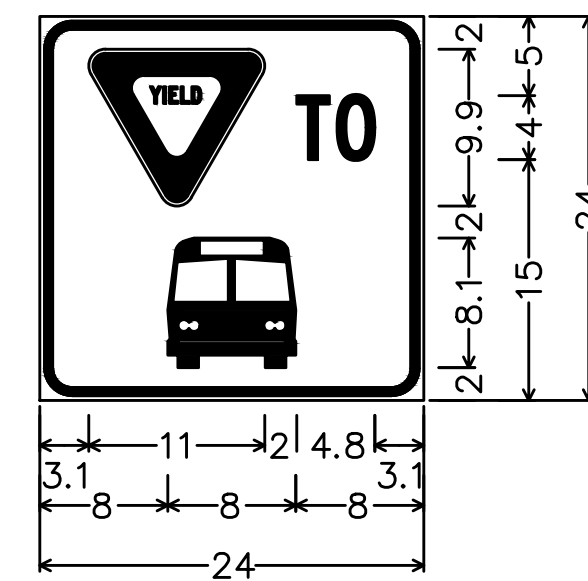
**SPECIAL SIGN DETAILS**



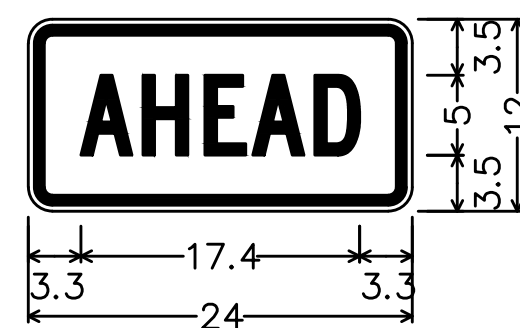
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DIMENSIONS IN INCHES



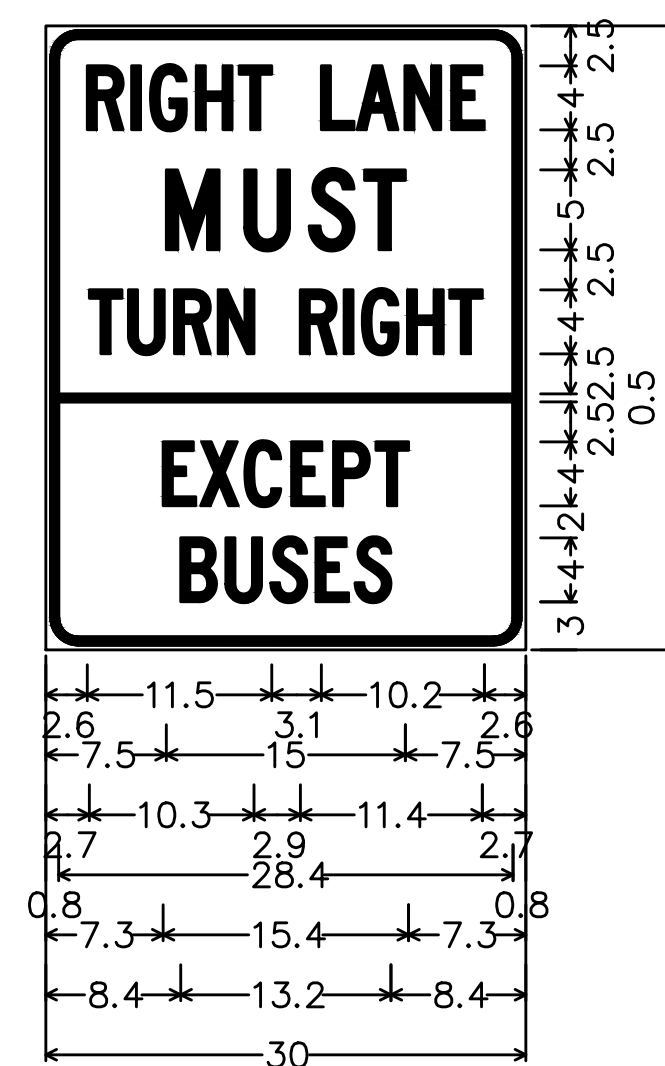
R3-8LTB-R  
NOT TO SCALE  
DIMENSIONS IN INCHES



SP-2  
NOT TO SCALE  
DIMENSIONS IN INCHES



SP-2  
NOT TO SCALE  
DIMENSIONS IN INCHES



SP-3  
NOT TO SCALE  
DIMENSIONS IN INCHES