



Providence Bicycle and Pedestrian Advisory Commission

Jorge O. Elorza, Mayor

Staff Report: Capital Improvement Program Contracts 2 & 3 30% Review – Downtown, Fox Point, Wayland, College Hill, Hope, Mount Hope, Blackstone, West End, Federal Hill, Elmwood – Wards 1, 2, 3, 8, 11, 12, 13 (For Action)

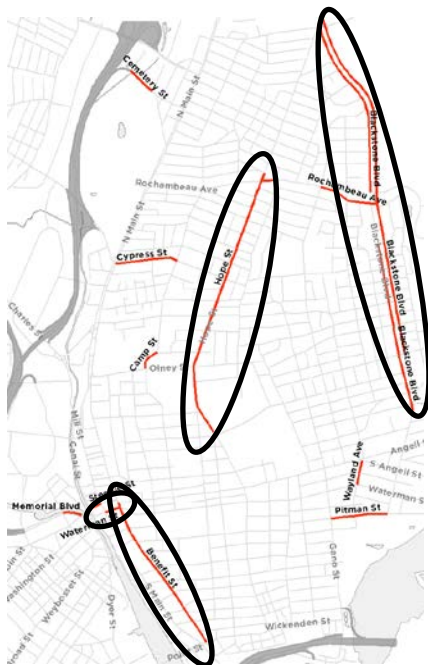
Presented at August 15, 2018 BPAC meeting

Project Background

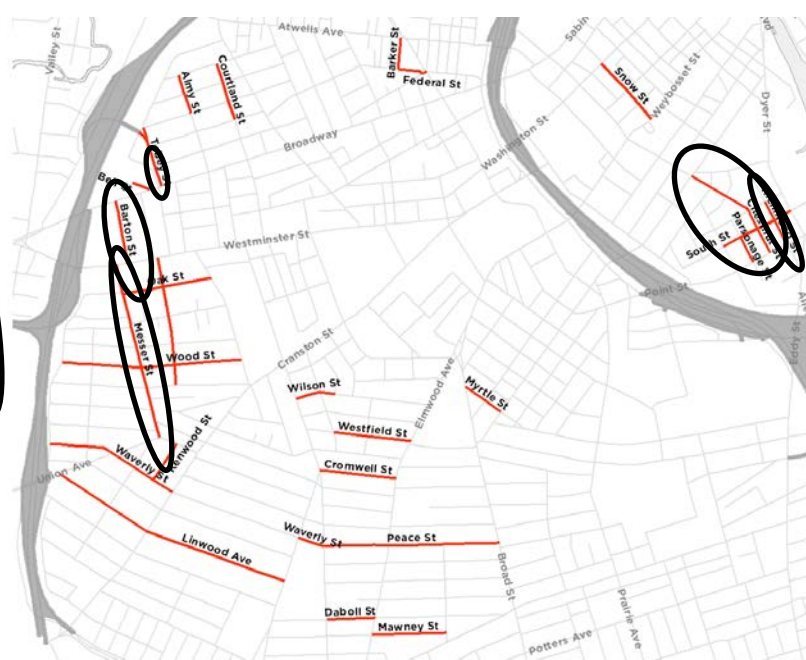
The City of Providence Department of Public Works seeks comments from the BPAC regarding design plans for Contracts 2 & 3 of the City's Capital Improvement Program. These repaving projects were selected based on pavement condition and geographic diversity.

Project Map

Contract 2



Contract 3



Previous Recommendations

- For all projects that contain or abut arterials or collectors, restriping should incorporate crosswalks painted in the continental style, with 2 ft wide stripes and 2 ft wide gaps. This style of crosswalk should be adopted as the citywide standard.



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- **All crosswalks are shown in the cheaper 2 ft x 1 ft style.**
- Where appropriate and within project boundaries at crosswalk locations, lanes of arterials and collectors should be narrowed to 1 ft narrower than their regular width, with extra space being devoted to bulb-outs of striped side-lines. While granite curb extensions are outside the budget of this project, this measure will decrease vehicular speeds, reduce pedestrian crossing distances, and make crosswalks more visible.
 - **“Where appropriate and feasible, lane width reductions of various dimensions will be considered. Bulbouts are generally cost prohibitive and not budgeted for recurring maintenance.”**
- On both sides of Blackstone Boulevard, the street should be restriped with an increased distance between the left side line and the curb, with dashed bike lane extensions striped through intersections, and with stop bars and continental-style crosswalks striped at each intersection.
 - **Increased left side edge line included, dashed bike extensions included, green ladders in bike crossings not included, stop bars and crosswalks across Blackstone Blvd not included at ever intersection.**
- One lane of on-street parking should be removed on Hope Street to allow for restriping to include bike lanes in either direction, with the bike lane on the same side of the street as the remaining parking on the curb-side of the parking (parking-protected bike lane), and buffers between either bike lane and the vehicular space.
 - **Not included**
- For the section of Waterman St between North Main St and Benefit St, the space between curb faces should be modified slightly from existing conditions to widen to 6’ and add bike lane markings to the right-hand buffer.
 - **Included**
- Special attention should be paid to the design of the intersection of Waterman St with Benefit St, and to the safety of bicyclists in the new bike lane.
 - **Bike lane ends before the Benefit St intersection.**
- The stamped-concrete crosswalk across Waterman St at Benefit St should be replaced with a continental-style crosswalk with 2 ft stripes and 2 ft gaps.
 - **Included, except crosswalks at 2 ft x 1 ft in plan.**
- Benefit Street should be designated a neighborhood bikeway by means of signage, pavement markings, and other traffic calming measures. On neighborhood bikeways, bicycle traffic has priority while sharing the street with low-speed and low-volume vehicular traffic. Shared-lane markings should be added to the street as part of the Capital Improvement Program work, preferably with a square of green paint behind them.



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- **Green-backed sharrows included**
- Public Works should resurface Chestnut St and Richmond St and then delay restriping of more than crosswalks and stop bars until the Complete Streets project to analyze alternatives for these streets incorporating bicycle infrastructure is complete.
 - **Included**
- Capital Improvement Program work on Messer Street should retain the existing floating tree planters, and supplement their traffic-calming effect with the addition of a double-yellow centerline, to improve safety for both pedestrians and bicyclists.
 - **17 of 80 tree planters are planned to be removed. Double-yellow centerline included.**
- Public Works should consult with the City Forester about how to protect the Messer Street trees during construction.
 - **“Contractor shall trim trees along the entire length of the roadway at the direction of the engineer and the tree warden”**
- Pavement markings and enhanced signage should be added on Barton Street to increase the visibility of the crosswalks.
 - **Bulb-outs, new accessible ramps, and a restriped crosswalk are included.**
- Public Works should extend the curb at the northeast corner of the intersection of Tobey Street and Broadway to meet the existing drainage structure and reduce the pedestrian crossing distances.
 - **Not included**

Staff Recommendations for 30% Plans

- Existing crosswalks should be restriped in the 2 ft x 2 ft continental style, including but not limited to the crosswalks at the intersection of Waterman St and Benefit St, the restriped crosswalk on Barton St, and the restriped crosswalks on Chestnut St and Richmond St. New crosswalks may be striped in the cheaper 2 ft x 1 ft style.
- On Blackstone Blvd, the 2 ft buffer next to the bike lane should be moved from the right-hand side of the bike lane to the left-hand side (i.e. from between bike lane and parking lane to between bike lane and travel lane).
- On Blackstone Blvd, the dashed bike crossings of intersections should incorporate green paint between the white dashes of the side-lines to increase visibility of the bike lane for crossing vehicular traffic.

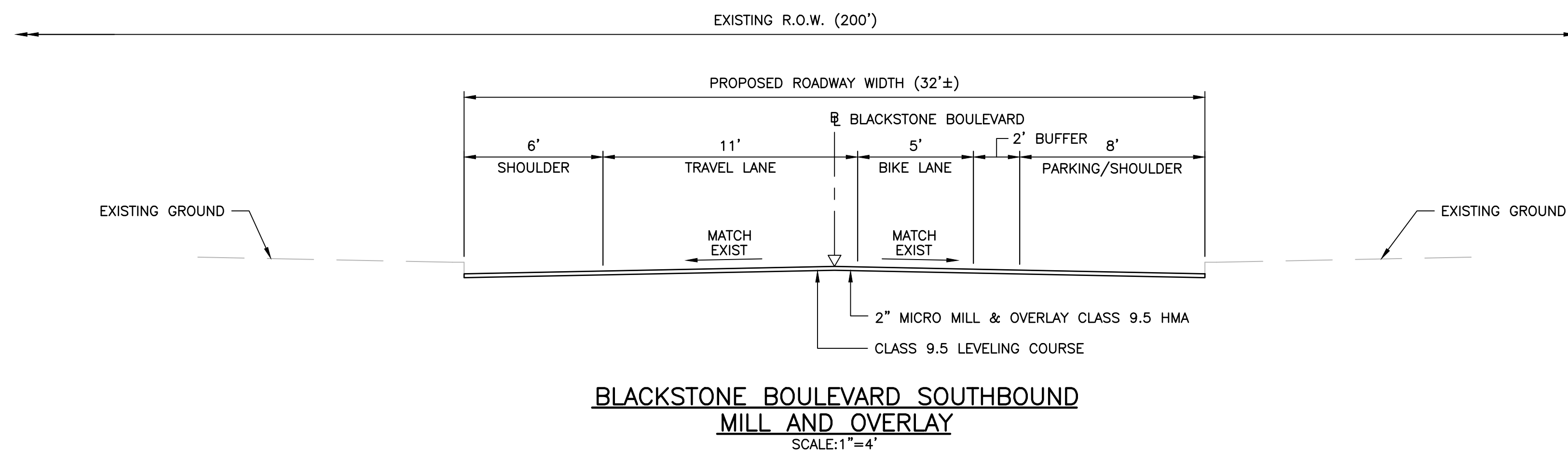
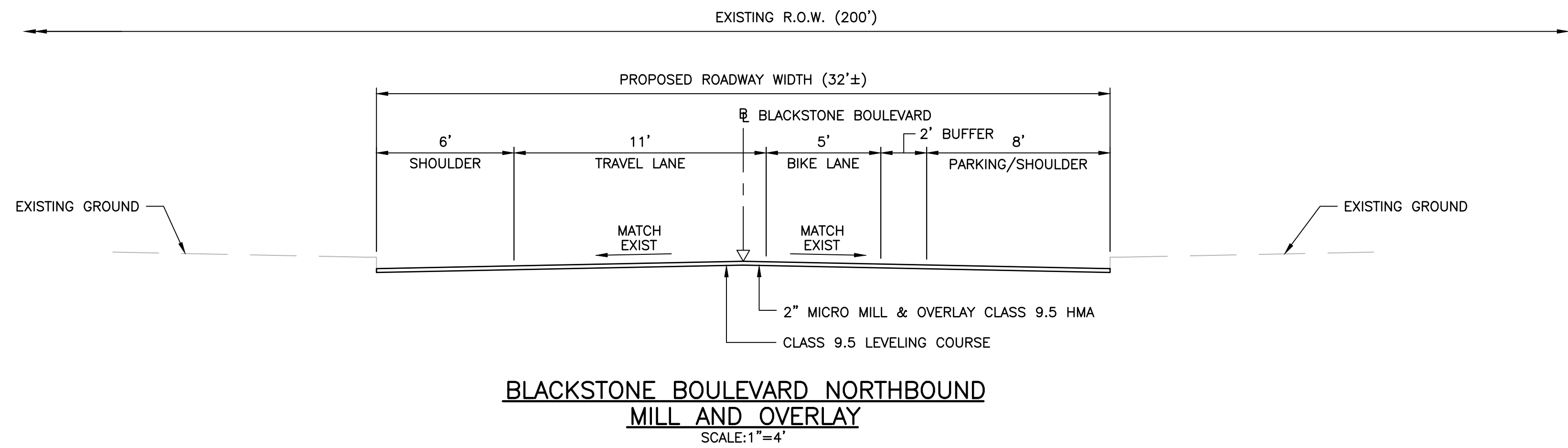
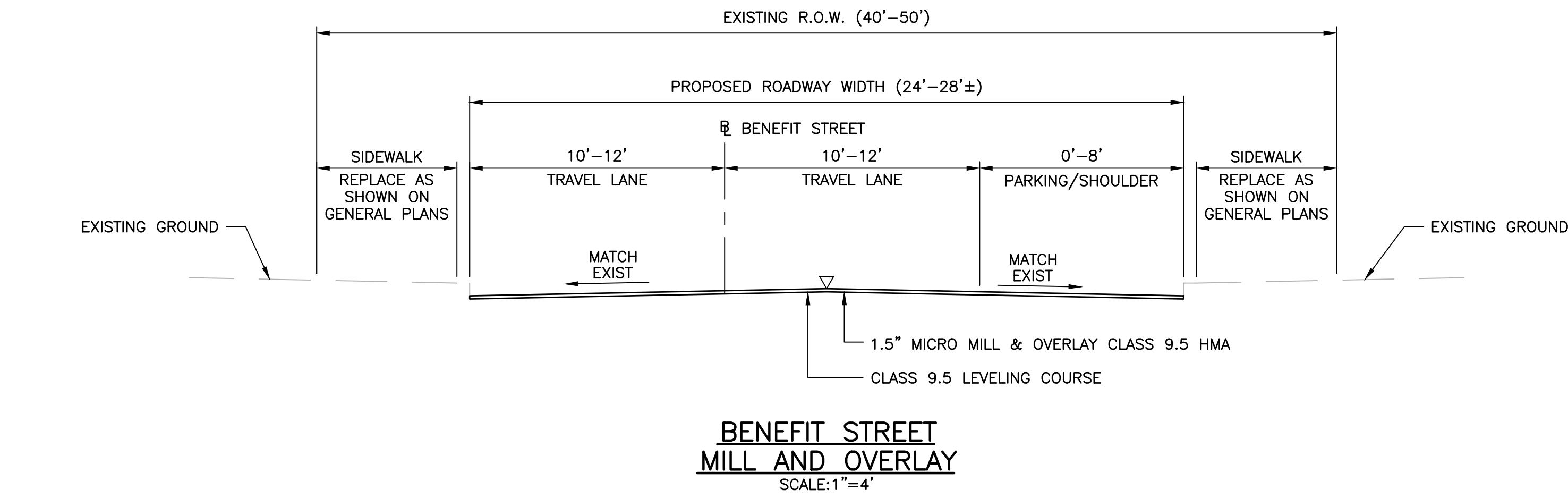


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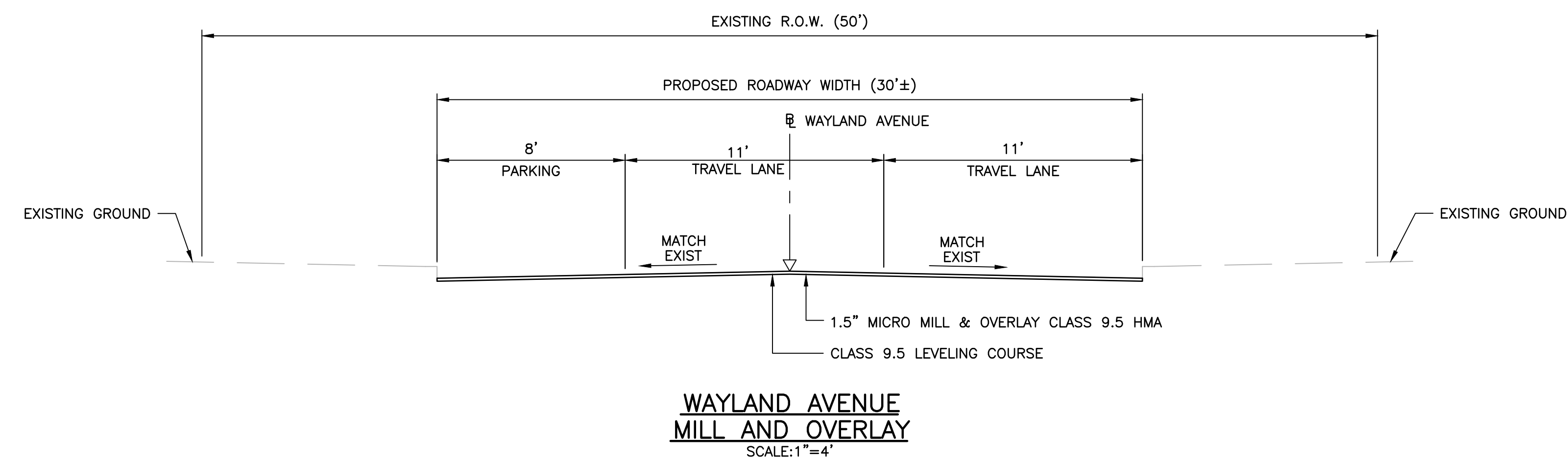
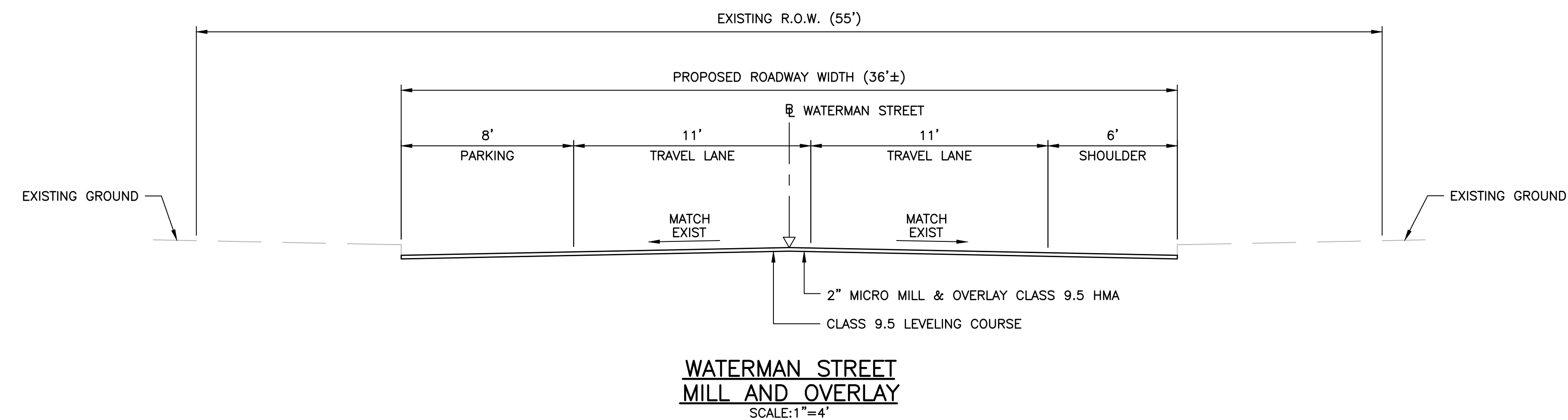
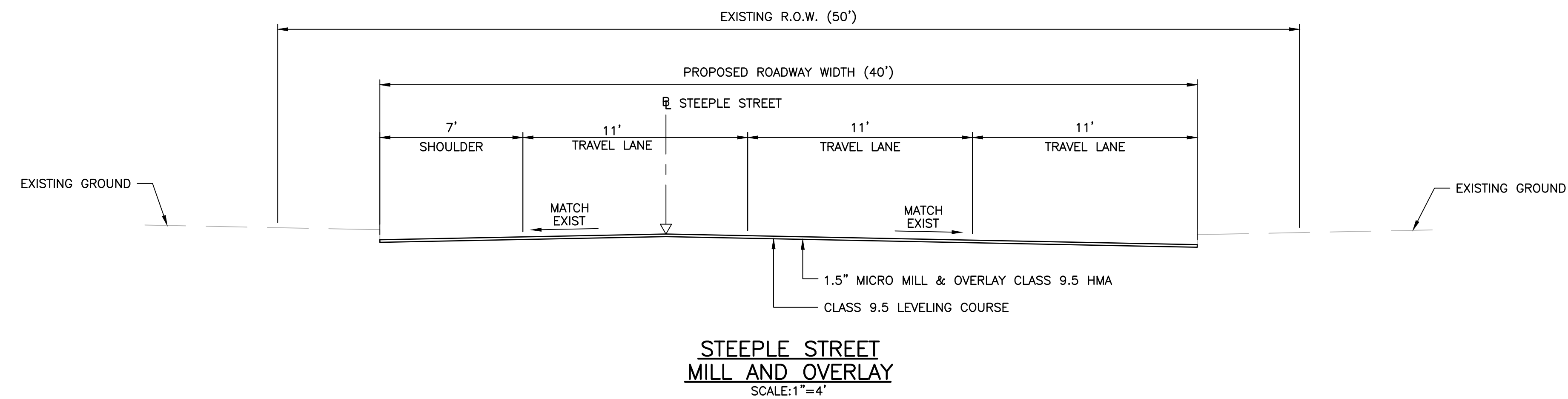
Jorge O. Elorza, Mayor

- The northbound bike lane on Blackstone Blvd should be extended south one block from Irving St to Elton St. A green dashed bike crossing should be added across the eastern branch of Blackstone Blvd that connects to Irving St.
- In the typical cross-section for Waterman Street, the 6 ft shoulder on the right-hand side should be indicated as “bike lane” not “shoulder” to reflect the designation by bike lane markings in the plan.
- Improved pedestrian safety should be incorporated into the intersection of Memorial Blvd and Steeple St. Potential low-cost improvements could include extension of the striped median on the east leg of the intersection to incorporate the crosswalk, creating a striped traffic island and reducing the corner radius with striping at the northwest and southwest corners of the intersection.
- Work on Steeple St should coordinate with RIDOT work on Canal St, including the addition of a southbound bike lane on Canal St continuing onto Canal Walk. That work creates the need for bicycle detection in the traffic signal, for a bike box on the north branch of the intersection of Canal St and Steeple St, and for a two-stage turn box at Steeple St stop bar to allow southbound bicyclists in the left-side bike lane on Canal St to turn right onto Steeple St westbound.
- The typical cross-sections for Chestnut St and Richmond St should show travel lanes not delineated to match the plans. The upcoming Complete Streets project will stripe the street in a new configuration.
- All tree planters on Messer St should be retained.
- Stop bars should be added to Snow St at the approach to Westminster St in both directions.


Respectfully submitted by Alex Ellis.



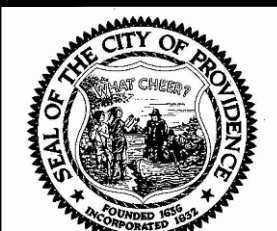
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			DATE: JUNE 2018	SCALE:



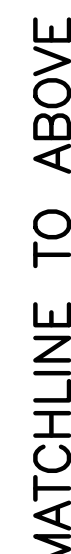
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NO.	DATE	BY		
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			PROVIDENCE	RHODE ISLAND
			TYPICAL SECTIONS NO. 5	
			DWN:	CHECKED:
			DATE: JUNE 2018	SCALE:



1 Cedar Street
Suite 400
Providence, RI 02903
401.272.8100



CITY OF PROVIDENCE
DEPARTMENT OF PUBLIC WORKS
700 ALLENS AVENUE
PROVIDENCE, R.I. 02905



20 0 20 40

SCALE IN FEET

1. ALL INLETS AND CATCH BASINS AND THEIR PIPE LATERALS WITHIN THE PAVING LIMITS SHALL BE CLEANED AND FLUSHED.
2. ALL CATCH BASINS SHALL HAVE PROPERLY SIZED INLET PROTECTION DEVICES INSTALLED AFTER CLEANING.
3. CONTRACTOR SHALL NOTE THAT EXISTING BASE WAS IDENTIFIED IN THE PAVEMENT CORES OF THIS STREET. FOLLOWING MILLING, CONTRACTOR SHALL REPAIR BASE AT THE DIRECTION OF THE ENGINEER.

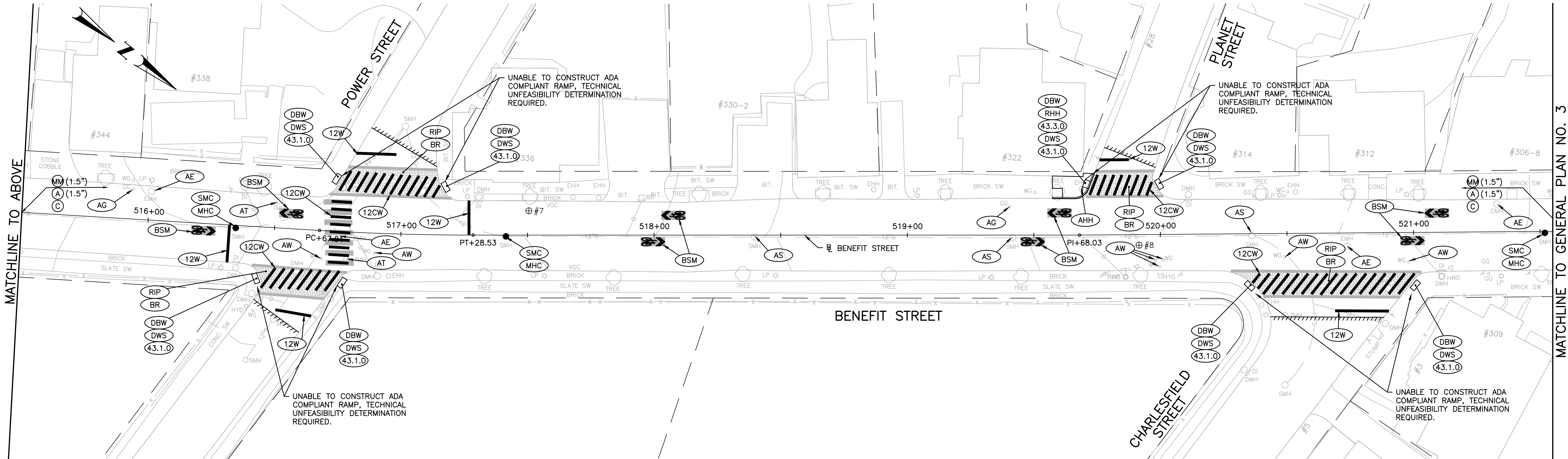
City of Providence

PROVIDENCE RHODE ISLAND

DWN: CHECKED: DATE: JUNE 2018 SCALE:

MATCHLINE TO GENERAL PLAN NO. 1

MATCHLINE TO BELOW



WHEEL CHAIR RAMP TRANSITION CHART						
LOCATION	CURB REVEAL		ROADWAY GUTTER SLOPE		TRANSITION LENGTH	
	LEFT SIDE	RIGHT SIDE	LEFT SIDE	RIGHT SIDE	LEFT SIDE	RIGHT SIDE
STA 513+21 LT	3.5"	2"	3.2%	13.0%	RHH	RHH
STA 513+36 LT	6"	4.5"	16.2%	5.6%	RHH	RHH
STA 519+72 LT	2.5"	2"	2.3%	15.6%	RHH	RHH



NOTES:

- ALL INLETS AND CATCH BASINS AND THEIR PIPE LATERALS WITHIN THE PAVING LIMITS SHALL BE CLEANED AND FLUSHED.
- ALL CATCH BASINS SHALL HAVE PROPERLY SIZED INLET PROTECTION DEVICES INSTALLED AFTER CLEANING.
- CONTRACTOR SHALL NOTE THAT EXISTING BASE WAS IDENTIFIED IN THE PAVEMENT CORES OF THIS STREET. FOLLOWING MILLING, CONTRACTOR SHALL REPAIR BASE AT THE DIRECTION OF THE ENGINEER.

REVISIONS		
NO.	DATE	BY

City of Providence

PROVIDENCE 2018
CAPITAL IMPROVEMENT PLAN
PAVING CONTRACT 2

PROVIDENCE

RHODE ISLAND

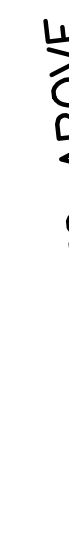
BENEFIT STREET
GENERAL PLAN NO. 2

DWN: CHECKED: DATE: JUNE 2018 SCALE:

1 Cedar Street
Suite 400
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401.272.8100



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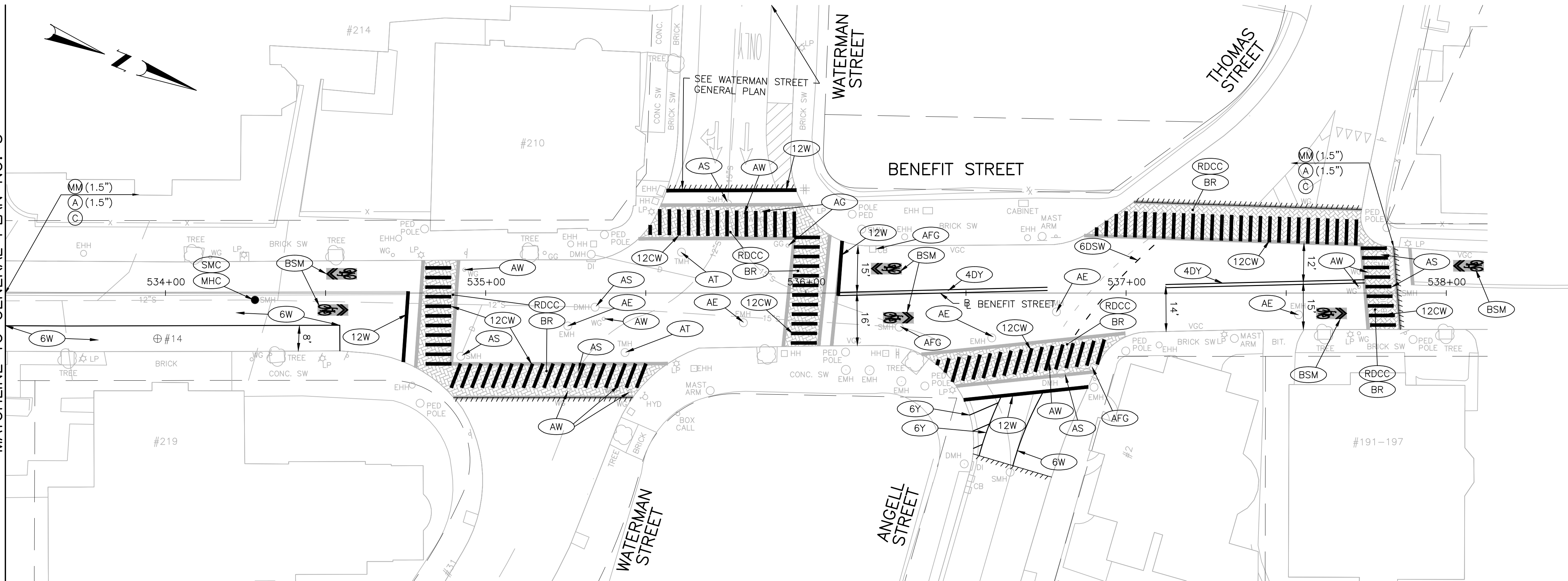
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SCALE IN FEET

1. ALL INLETS AND CATCH BASINS AND THEIR PIPE LATERALS WITHIN THE PAVING LIMITS SHALL BE CLEANED AND FLUSHED.
2. ALL CATCH BASINS SHALL HAVE PROPERLY SIZED INLET PROTECTION DEVICES INSTALLED AFTER CLEANING.
3. CONTRACTOR SHALL NOTE THAT EXISTING BASE WAS IDENTIFIED IN THE PAVEMENT CORES OF THIS STREET. FOLLOWING MILLING, CONTRACTOR SHALL REPAIR BASE AT THE DIRECTION OF THE ENGINEER.

DWN: CHECKED: DATE: JUNE 2018 SCALE:

MATCHLINE TO GENERAL PLAN NO. 3

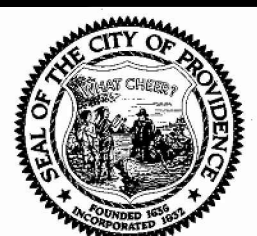


NOTES:

1. ALL INLETS AND CATCH BASINS AND THEIR PIPE LATERALS WITHIN THE PAVING LIMITS SHALL BE CLEANED AND FLUSHED.
2. ALL CATCH BASINS SHALL HAVE PROPERLY SIZED INLET PROTECTION DEVICES INSTALLED AFTER CLEANING.
3. CONTRACTOR SHALL NOTE THAT EXISTING BASE WAS IDENTIFIED IN THE PAVEMENT CORES OF THIS STREET. FOLLOWING MILLING, CONTRACTOR SHALL REPAIR BASE AT THE DIRECTION OF THE ENGINEER.

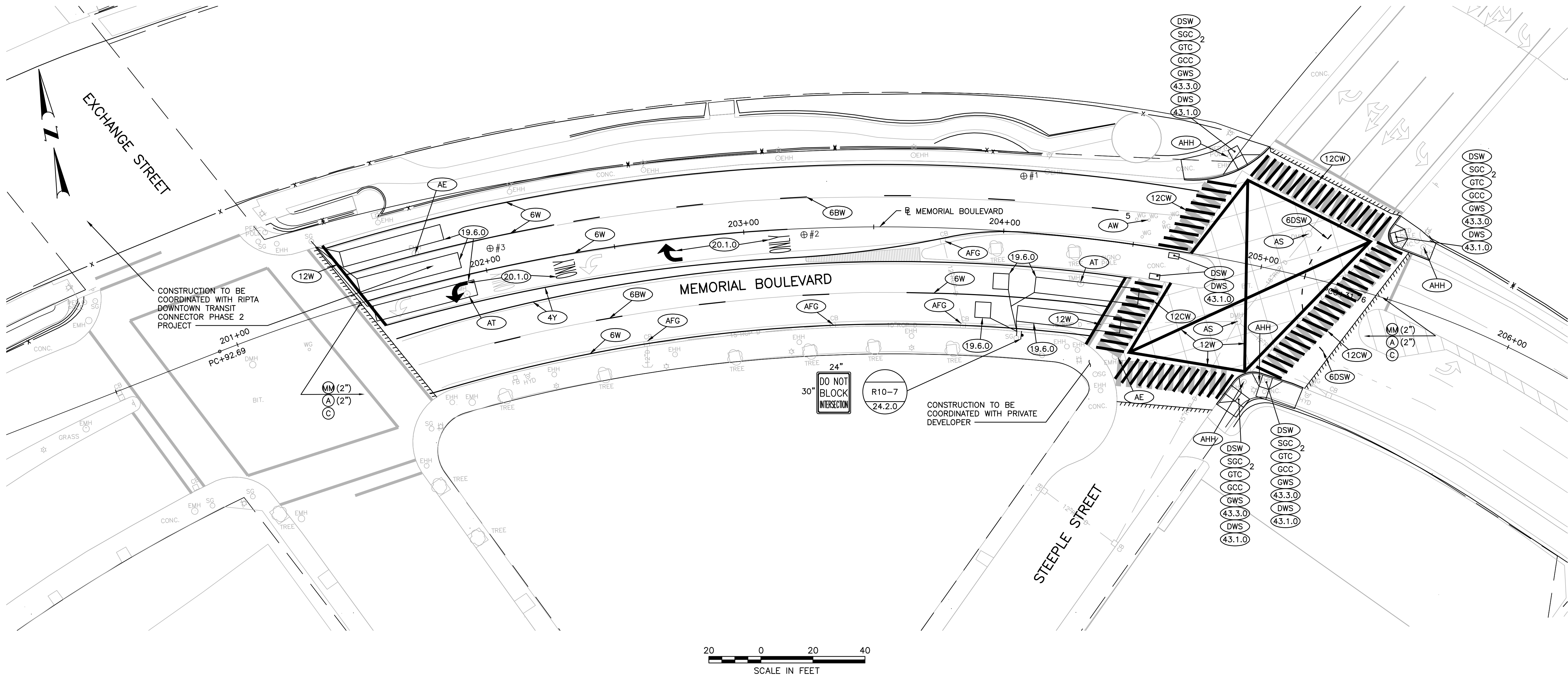


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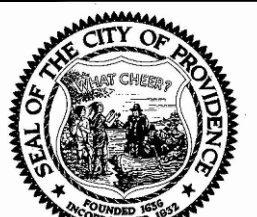
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NO.	DATE	BY		
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			DATE: JUNE 2018	SCALE:



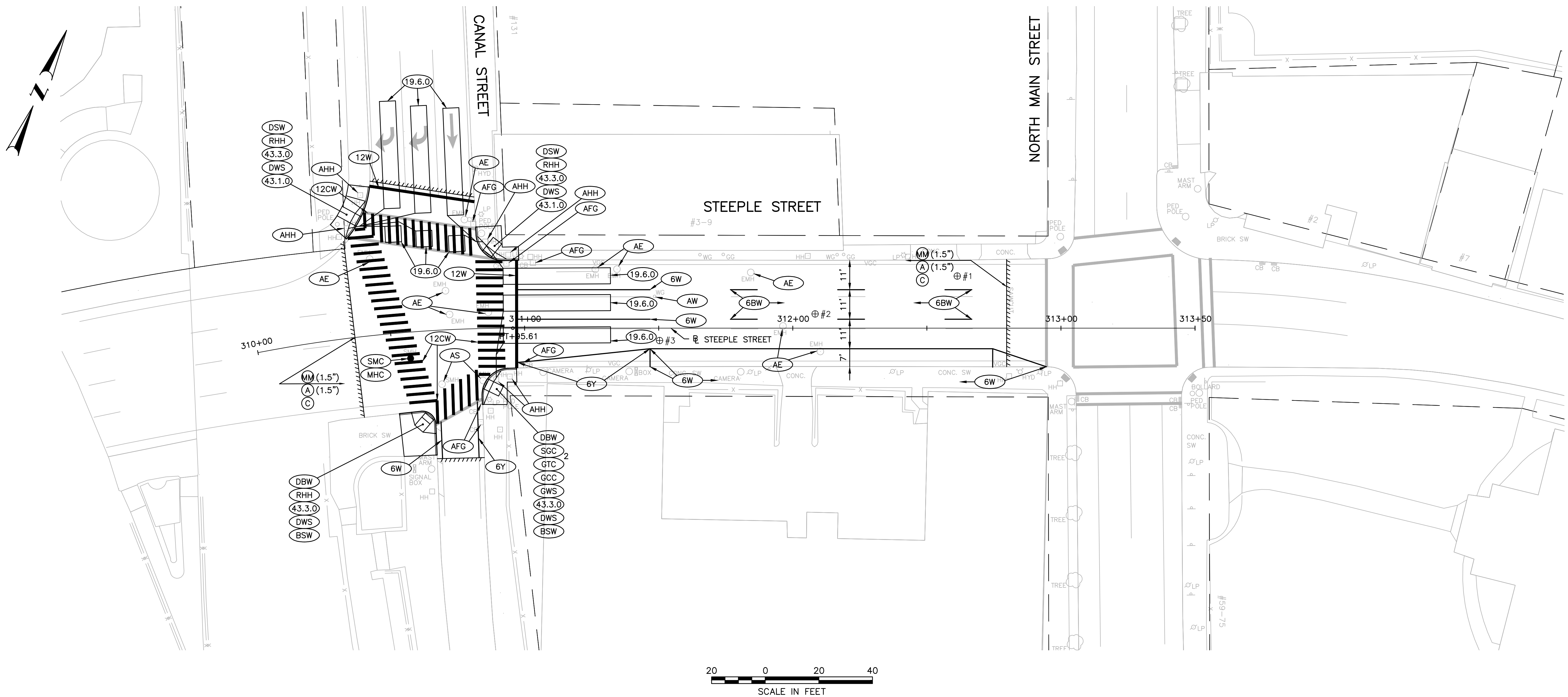
WHEEL CHAIR RAMP TRANSITION CHART						
LOCATION	CURB REVEAL		ROADWAY GUTTER SLOPE		TRANSITION LENGTH	
	LEFT SIDE	RIGHT SIDE	LEFT SIDE	RIGHT SIDE	LEFT SIDE	RIGHT SIDE
STA 204+86 LT	4.5"	6"	1.7%	1.3%	6'	6'
STA 204+97 RT	1"	5.5"	2.6%	2.6%	9.5'	6'
STA 205+12 RT	4.5"	3"	0.9%	0.9%	6'	7'
STA 205+45 LT	7"	4"	0.2%	1.1%	6'	8'

- NOTES:
- ALL INLETS AND CATCH BASINS AND THEIR PIPE LATERALS WITHIN THE PAVING LIMITS SHALL BE CLEANED AND FLUSHED.
 - ALL CATCH BASINS SHALL HAVE PROPERLY SIZED INLET PROTECTION DEVICES INSTALLED AFTER CLEANING.
 - CONTRACTOR SHALL CONTACT THE CITY OF PROVIDENCE TRAFFIC ENGINEERING DEPARTMENT TO SCHEDULE A MEETING IN THE FIELD TO LAYOUT AND MARK THE LOCATION OF THE PROPOSED LOOP DETECTORS PRIOR TO SAWCUTTING AND INSTALLING THE LOOP CABLING.
 - CONTRACTOR SHALL SPLICE PROPOSED LOOP DETECTORS IN ADJACENT HANDHOLE AND UTILIZE EXISTING CABLING TO CONTROLLER CABINET. PRIOR TO PAVING, THE CONTRACTOR SHALL IDENTIFY EACH LOOP LEAD-IN CABLE IN THE HANDHOLE AND INSTALL AN ID TAG FOR SPLICING OF THE NEW LOOP DETECTORS AFTER PAVEMENT IS COMPLETED.
 - CONTRACTOR SHALL NOTE THAT EXISTING CONCRETE BASE WAS IDENTIFIED IN THE PAVEMENT CORES OF THIS STREET. FOLLOWING MILLING, CONTRACTOR SHALL REPAIR BASE AT THE DIRECTION OF THE ENGINEER.

 1 Cedar Street
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401.272.8100


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DEPARTMENT OF PUBLIC WORKS
700 ALLENS AVENUE
PROVIDENCE, R.I. 02905

REVISIONS			City of Providence	
NO.	DATE	BY		
			PROVIDENCE 2018 CAPITAL IMPROVEMENT PLAN PAVING CONTRACT 2	
			PROVIDENCE	RHODE ISLAND
			MEMORIAL BOULEVARD GENERAL PLAN NO. 31	
			DWN:	CHECKED: DATE: JUNE 2018 SCALE:




WHEEL CHAIR RAMP TRANSITION CHART						
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	LEFT SIDE	RIGHT SIDE	LEFT SIDE	RIGHT SIDE	LEFT SIDE	RIGHT SIDE
STA 310+42 LT	3"	4"	1.9%	0.5%	RHH	RHH
STA 310+62 RT	5"	3.5"	0.5%	2.5%	RHH	RHH
STA 310+85 RT	5"	5"	2.5%	1.2%	9'	8'
STA 310+87 LT	4"	6.5"	0.7%	3.4%	RHH	RHH

- NOTES:**
1. ALL INLETS AND CATCH BASINS AND THEIR PIPE LATERALS WITHIN THE PAVING LIMITS SHALL BE CLEANED AND FLUSHED.
 2. ALL CATCH BASINS SHALL HAVE PROPERLY SIZED INLET PROTECTION DEVICES INSTALLED AFTER CLEANING.
 3. CONTRACTOR SHALL CONSTRUCT ALL WHEELCHAIR RAMPS TO HAVE A MINIMUM 4'x4' LEVEL LANDING AREA AT PEDESTRIAN PUSH BUTTON LOCATIONS.
 4. CONTRACTOR SHALL CONTACT THE CITY OF PROVIDENCE TRAFFIC ENGINEERING DEPARTMENT TO SCHEDULE A MEETING IN THE FIELD TO LAYOUT AND MARK THE LOCATION OF THE PROPOSED LOOP DETECTORS PRIOR TO SAWCUTTING AND INSTALLING THE LOOP CABLING.
 5. CONTRACTOR SHALL SPLICE PROPOSED LOOP DETECTORS IN ADJACENT HANDHOLE AND UTILIZE EXISTING CABLING TO CONTROLLER CABINET. PRIOR TO PAVING, THE CONTRACTOR SHALL IDENTIFY EACH LOOP LEAD-IN CABLE IN THE HANDHOLE AND INSTALL AN ID TAG FOR SPLICING OF THE NEW LOOP DETECTORS AFTER PAVEMENT IS COMPLETED.



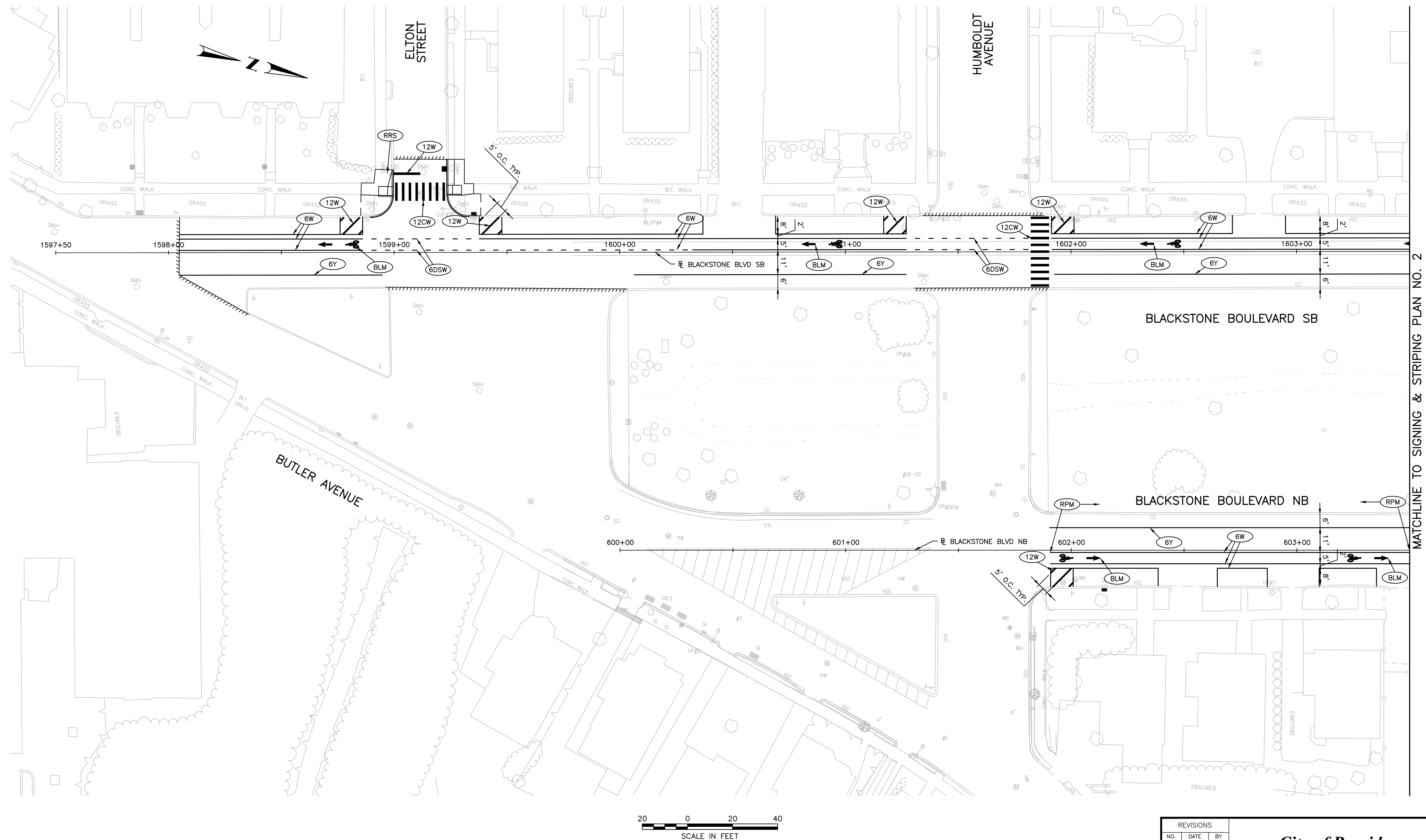
1 Cedar Street
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401.272.8100



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700 ALLENS AVENUE
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NO.	DATE	BY		
			PROVIDENCE 2018 CAPITAL IMPROVEMENT PLAN PAVING CONTRACT 2	
			PROVIDENCE	RHODE ISLAND
			STEEPLE STREET GENERAL PLAN NO. 35	
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City of Providence

PROVIDENCE 2018
CAPITAL IMPROVEMENT PLAN
PAVING CONTRACT 2

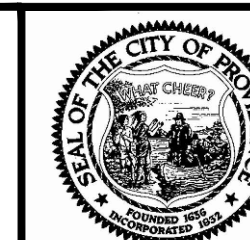
PROVIDENCE RHODE ISLAND

BLACKSTONE BOULEVARD
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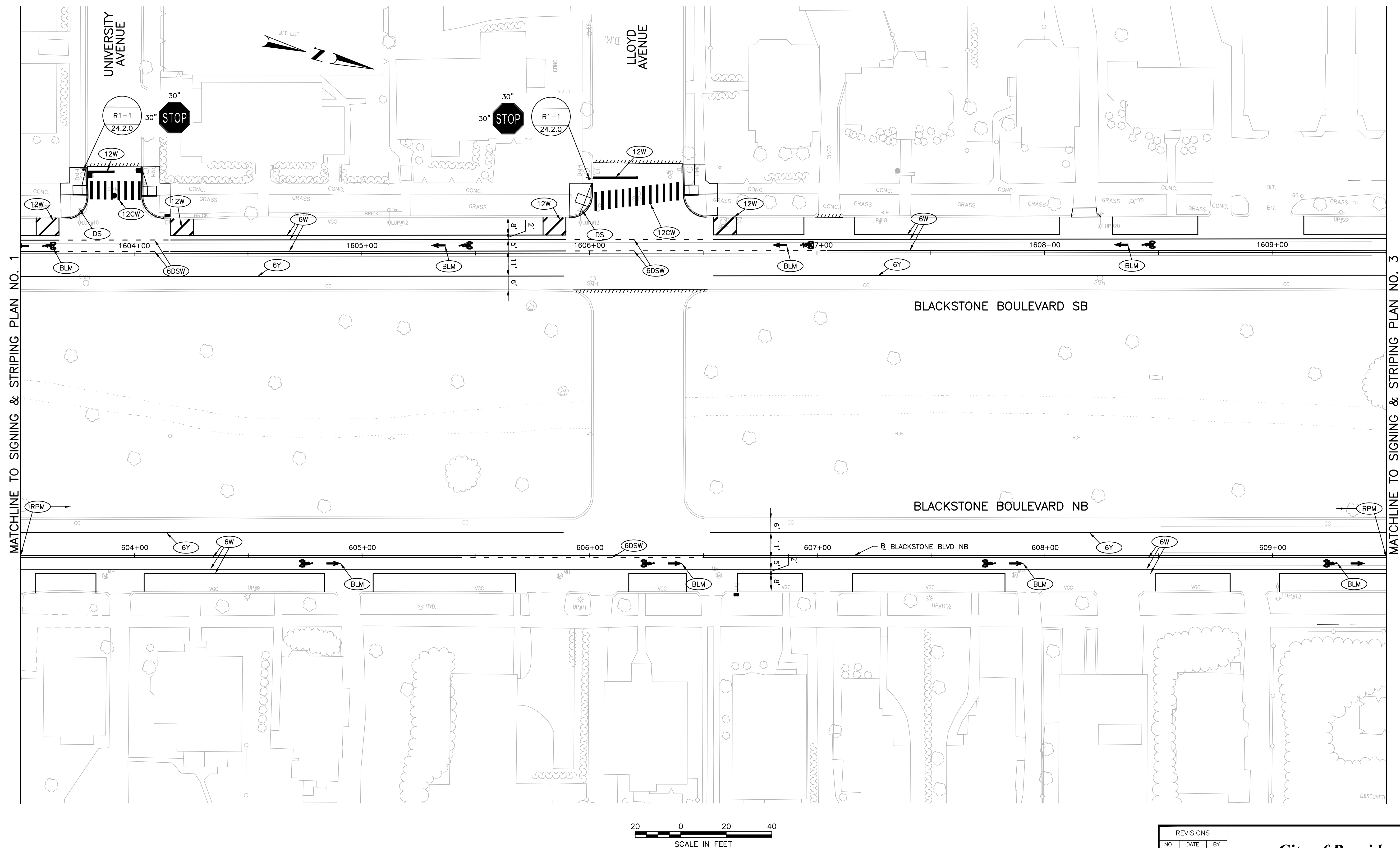
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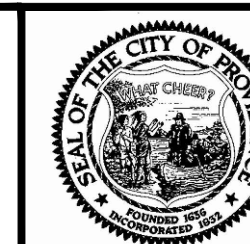
City of Providence

PROVIDENCE 2018
CAPITAL IMPROVEMENT PLAN
PAVING CONTRACT 2

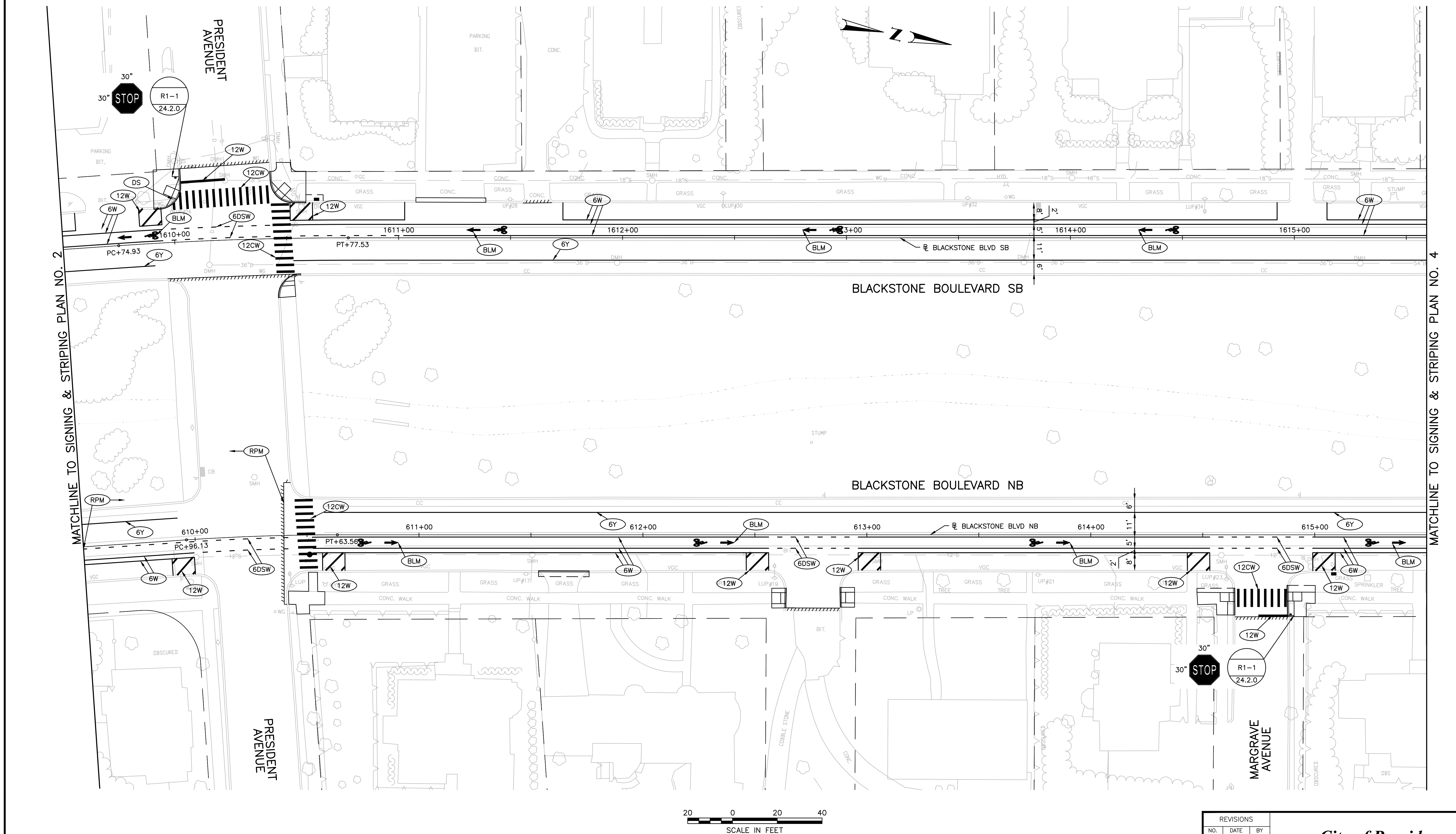
PROVIDENCE RHODE ISLAND

BLACKSTONE BOULEVARD
SIGNING & STRIPING PLAN NO. 2

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PROVIDENCE 2018
CAPITAL IMPROVEMENT PLAN
PAVING CONTRACT 2

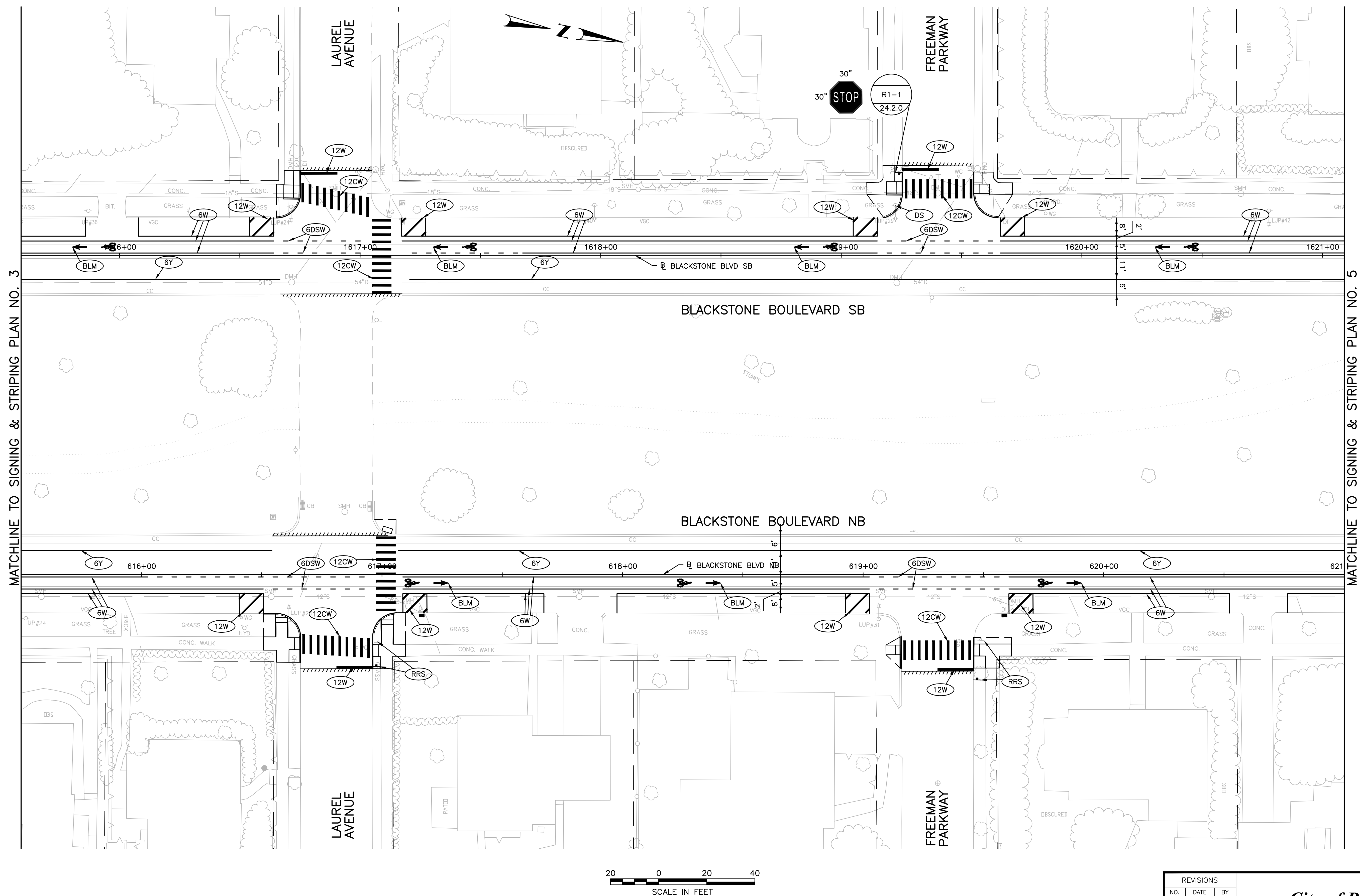
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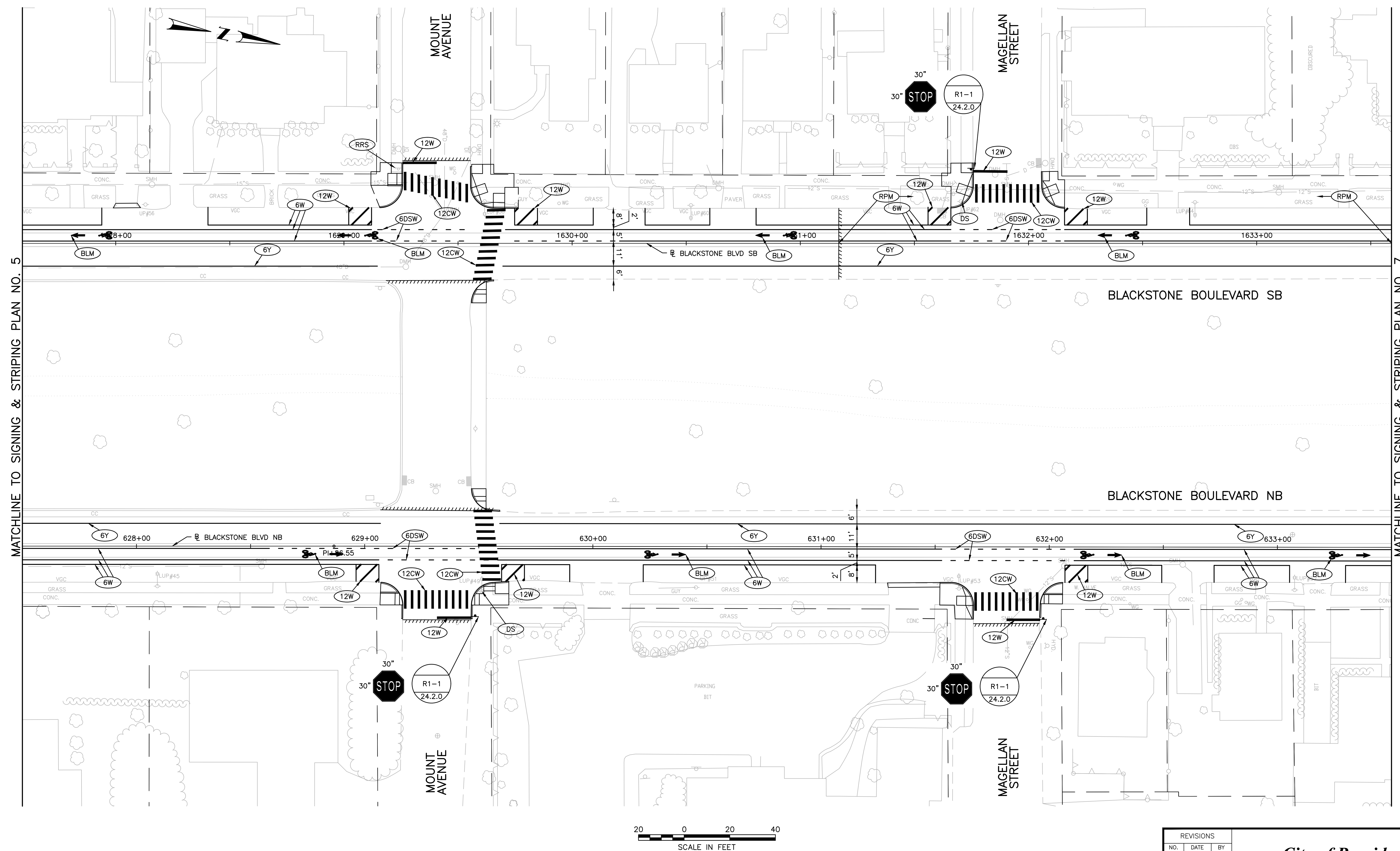
BLACKSTONE BOULEVARD
SIGNING & STRIPING PLAN NO. 3

DWN: CHECKED: DATE: JUNE 2018 SCALE:



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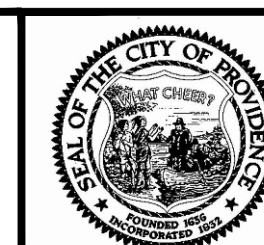
City of Providence

PROVIDENCE 2018
CAPITAL IMPROVEMENT PLAN
PAVING CONTRACT 2

PROVIDENCE RHODE ISLAND

BLACKSTONE BOULEVARD
SIGNING & STRIPING PLAN NO. 6

DWN:	CHECKED:	DATE: JUNE 2018	SCALE:
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DEPARTMENT OF PUBLIC WORKS
700 ALLENS AVENUE
PROVIDENCE, R.I. 02905

MATCHLINE TO SIGNING & STRIPING PLAN NO. 6

MATCHLINE TO SIGNING & STRIPING PLAN NO. 8

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City of Providence

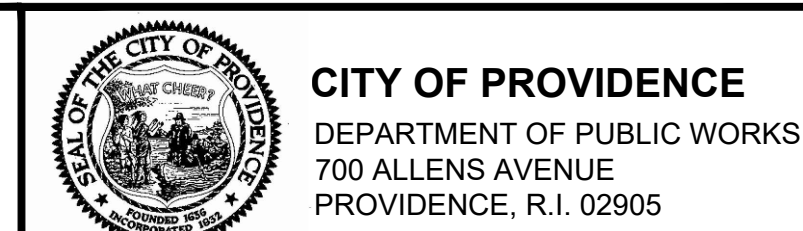
PROVIDENCE 2018
CAPITAL IMPROVEMENT PLAN
PAVING CONTRACT 2

PROVIDENCE

RHODE ISLAND

BLACKSTONE BOULEVARD
SIGNING & STRIPING PLAN NO. 7

DWN:	CHECKED:	DATE: JUNE 2018	SCALE:
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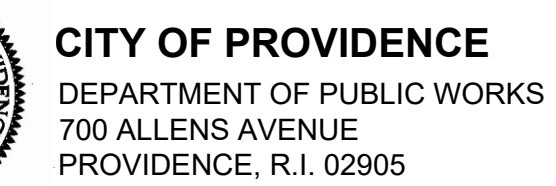
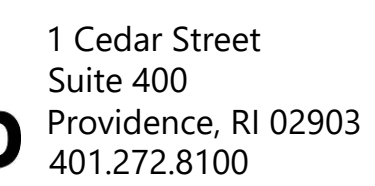


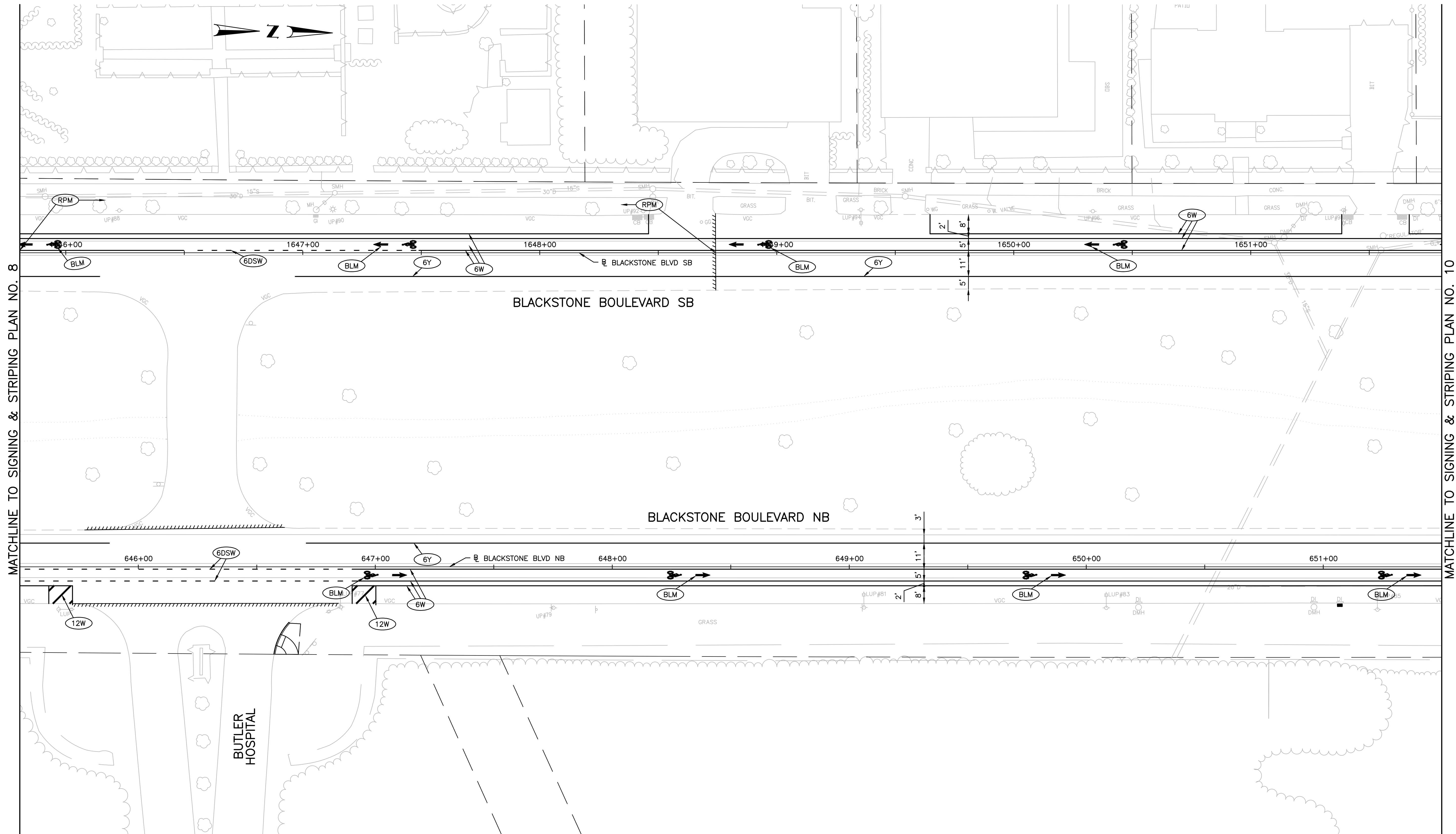
City of Providence

PROVIDENCE RHODE ISLAND

BLACKSTONE BOULEVARD
SIGNING & STRIPING PLAN NO. 8

DWN:	CHECKED:	DATE: JUNE 2018	SCALE:
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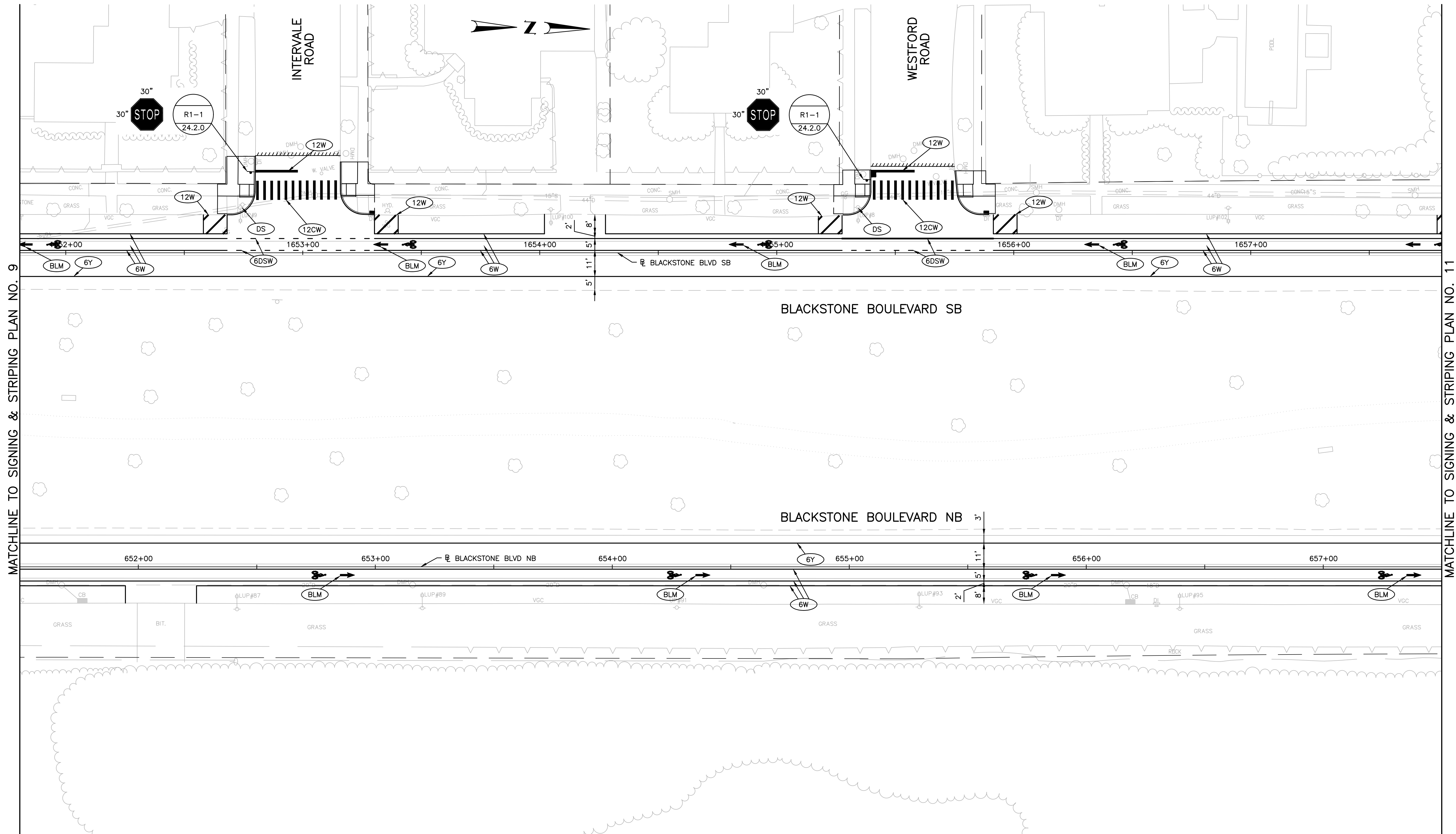





REVISIONS			City of Providence	
NO.	DATE	BY		
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			PROVIDENCE	RHODE ISLAND
			BLACKSTONE BOULEVARD SIGNING & STRIPING PLAN NO. 9	
			DWN:	CHECKED: DATE: JUNE 2018 SCALE:

1 Cedar Street
Suite 400
Providence, RI 02903
401.272.8100

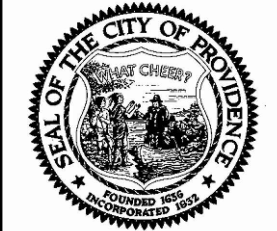
CITY OF PROVIDENCE
DEPARTMENT OF PUBLIC WORKS
700 ALLENS AVENUE
PROVIDENCE, R.I. 02905



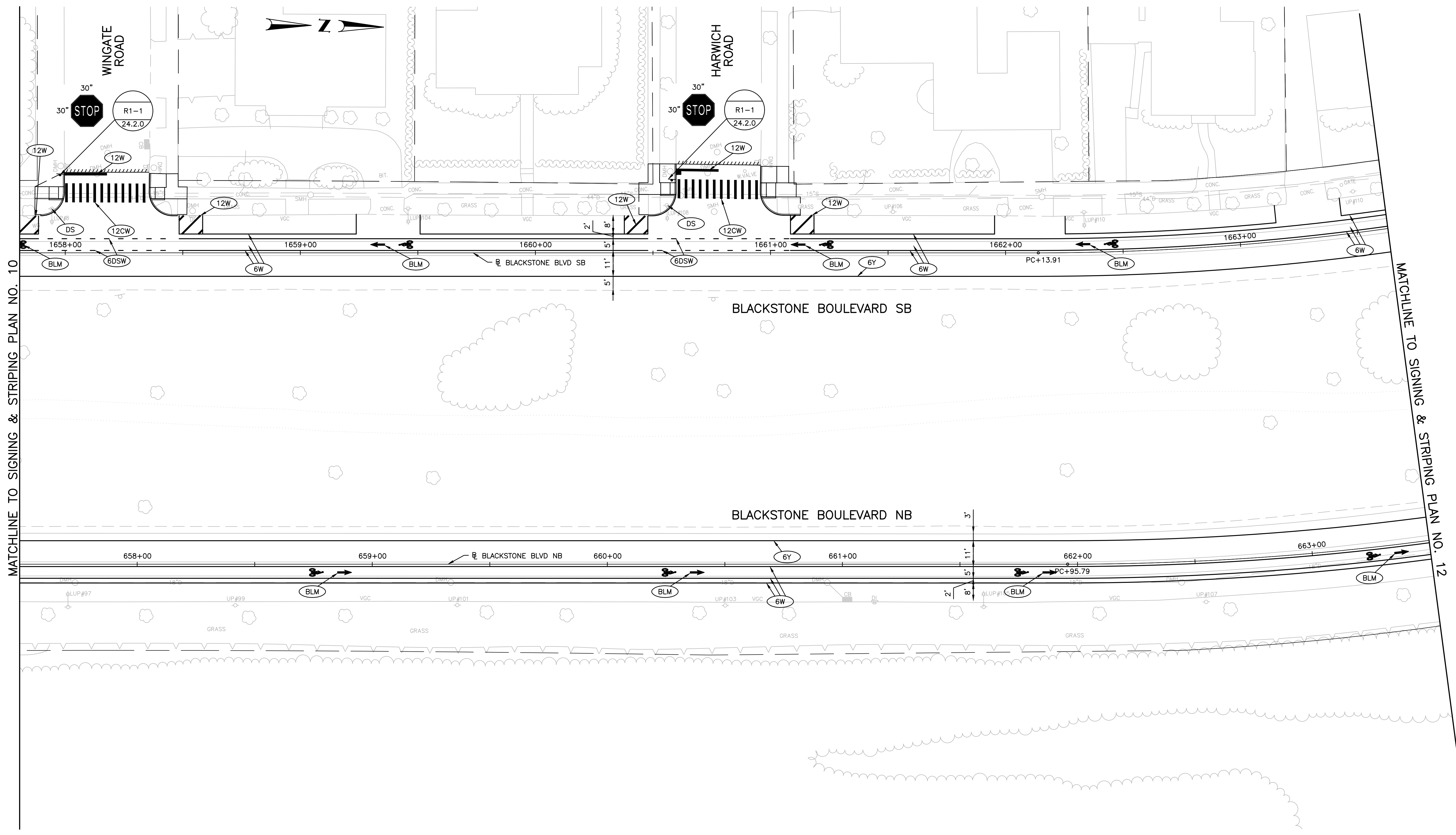
REVISIONS			City of Providence	
NO.	DATE	BY		
			PROVIDENCE 2018 CAPITAL IMPROVEMENT PLAN PAVING CONTRACT 2	
			PROVIDENCE	RHODE ISLAND
			BLACKSTONE BOULEVARD SIGNING & STRIPING PLAN NO. 10	
			DWN:	CHECKED: DATE: JUNE 2018 SCALE:



1 Cedar Street
Suite 400
Providence, RI 02903
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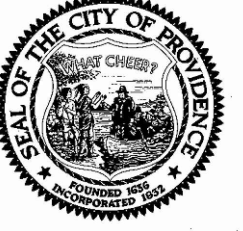


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700 ALLENS AVENUE
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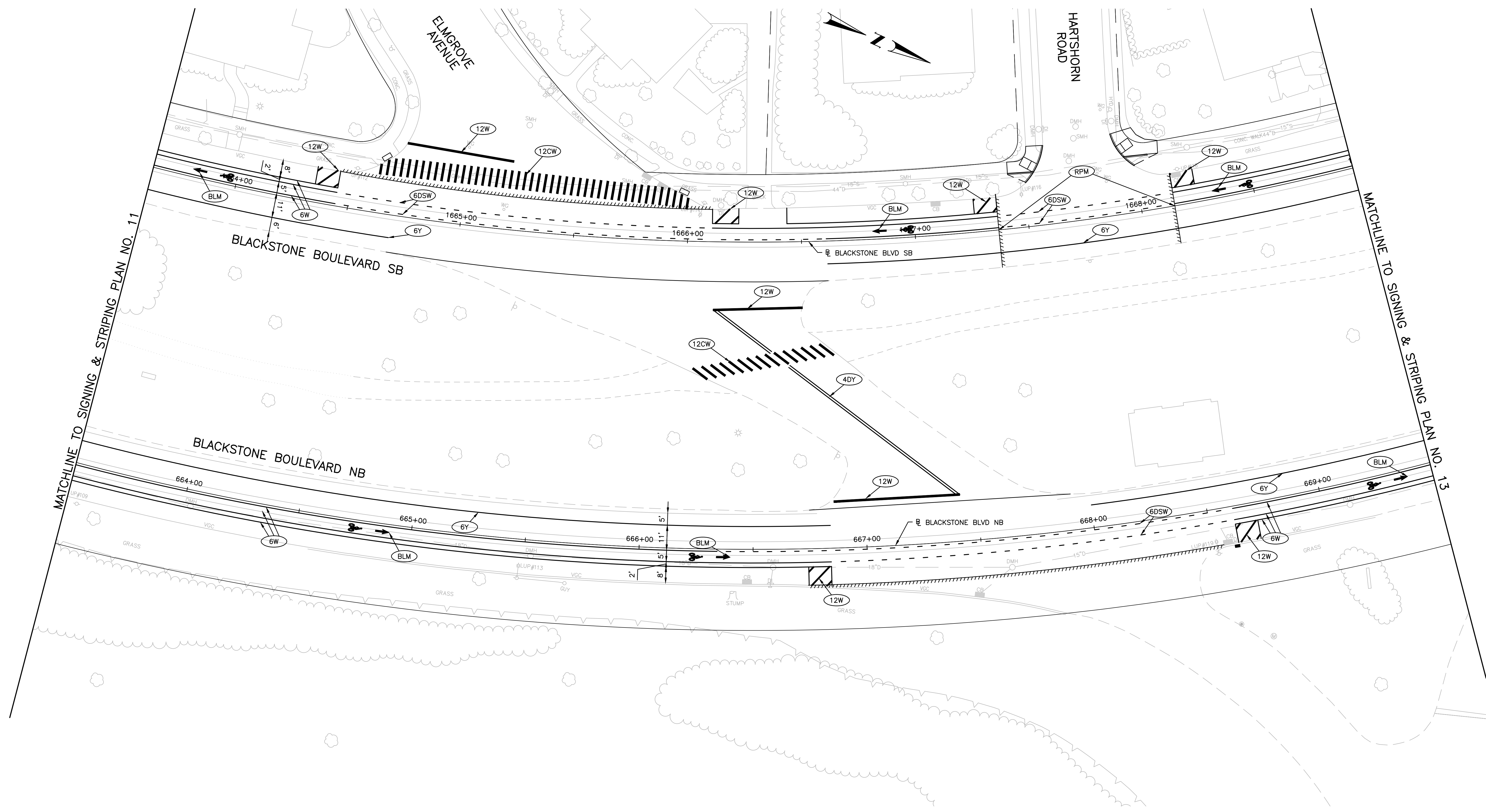


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PROVIDENCE, R.I. 02905

REVISIONS			City of Providence	
NO.	DATE	BY		
			PROVIDENCE 2018 CAPITAL IMPROVEMENT PLAN PAVING CONTRACT 2	
			PROVIDENCE RHODE ISLAND	
			BLACKSTONE BOULEVARD SIGNING & STRIPING PLAN NO. 11	
			DWN: CHECKED: DATE: JUNE 2018 SCALE:	

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City of Providence

PROVIDENCE 2018
CAPITAL IMPROVEMENT PLAN
PAVING CONTRACT 2

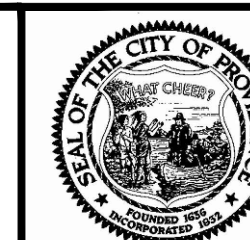
PROVIDENCE RHODE ISLAND

BLACKSTONE BOULEVARD
SIGNING & STRIPING PLAN NO. 12

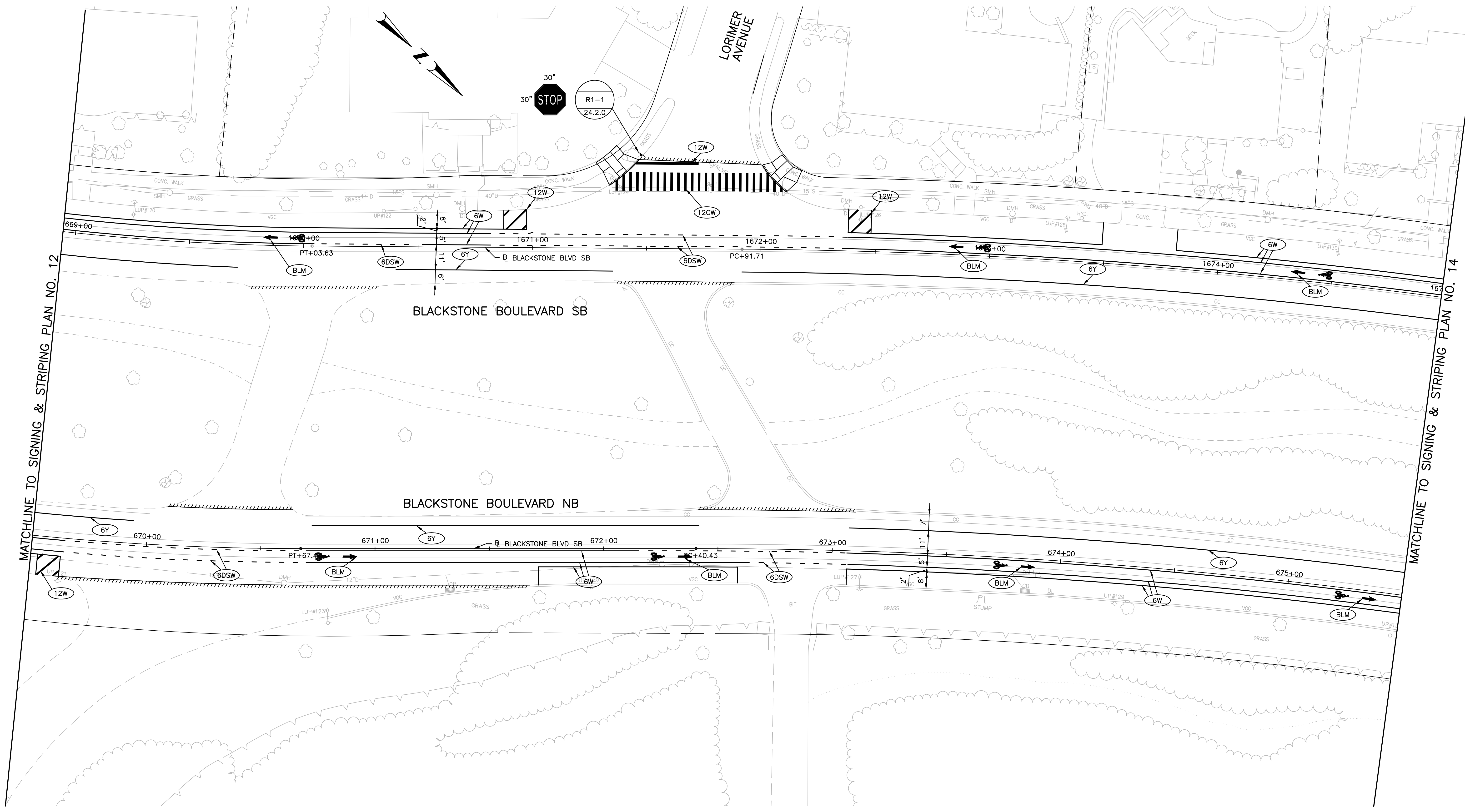
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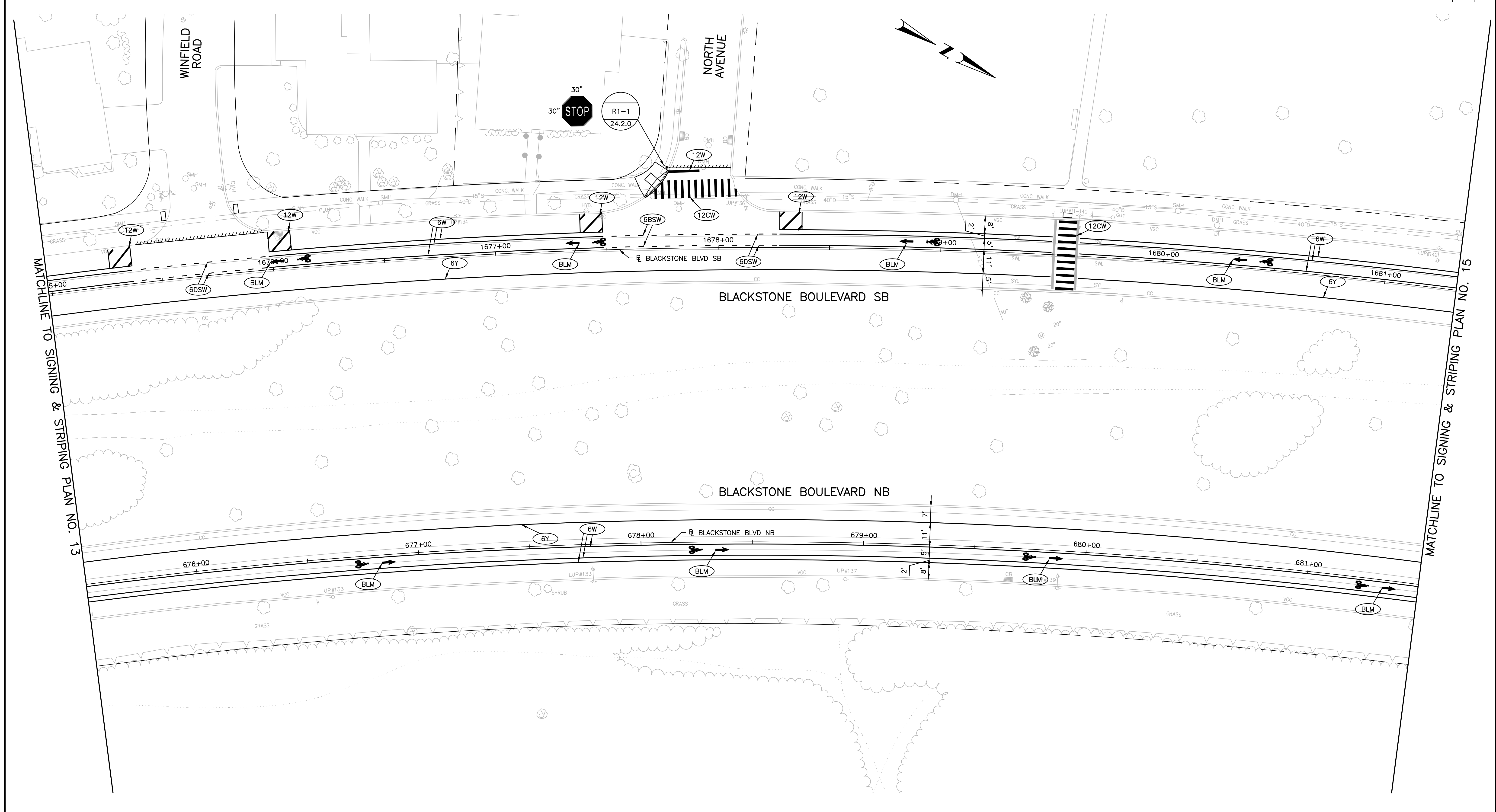
REVISIONS			City of Providence	
NO.	DATE	BY		
			PROVIDENCE 2018 CAPITAL IMPROVEMENT PLAN PAVING CONTRACT 2	
			PROVIDENCE	RHODE ISLAND
			BLACKSTONE BOULEVARD SIGNING & STRIPING PLAN NO. 13	
			DWN:	CHECKED: DATE: JUNE 2018 SCALE:



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City of Providence

PROVIDENCE 2018
CAPITAL IMPROVEMENT PLAN
PAVING CONTRACT 2


PROVIDENCE RHODE ISLAND

BLACKSTONE BOULEVARD
SIGNING & STRIPING PLAN NO. 14

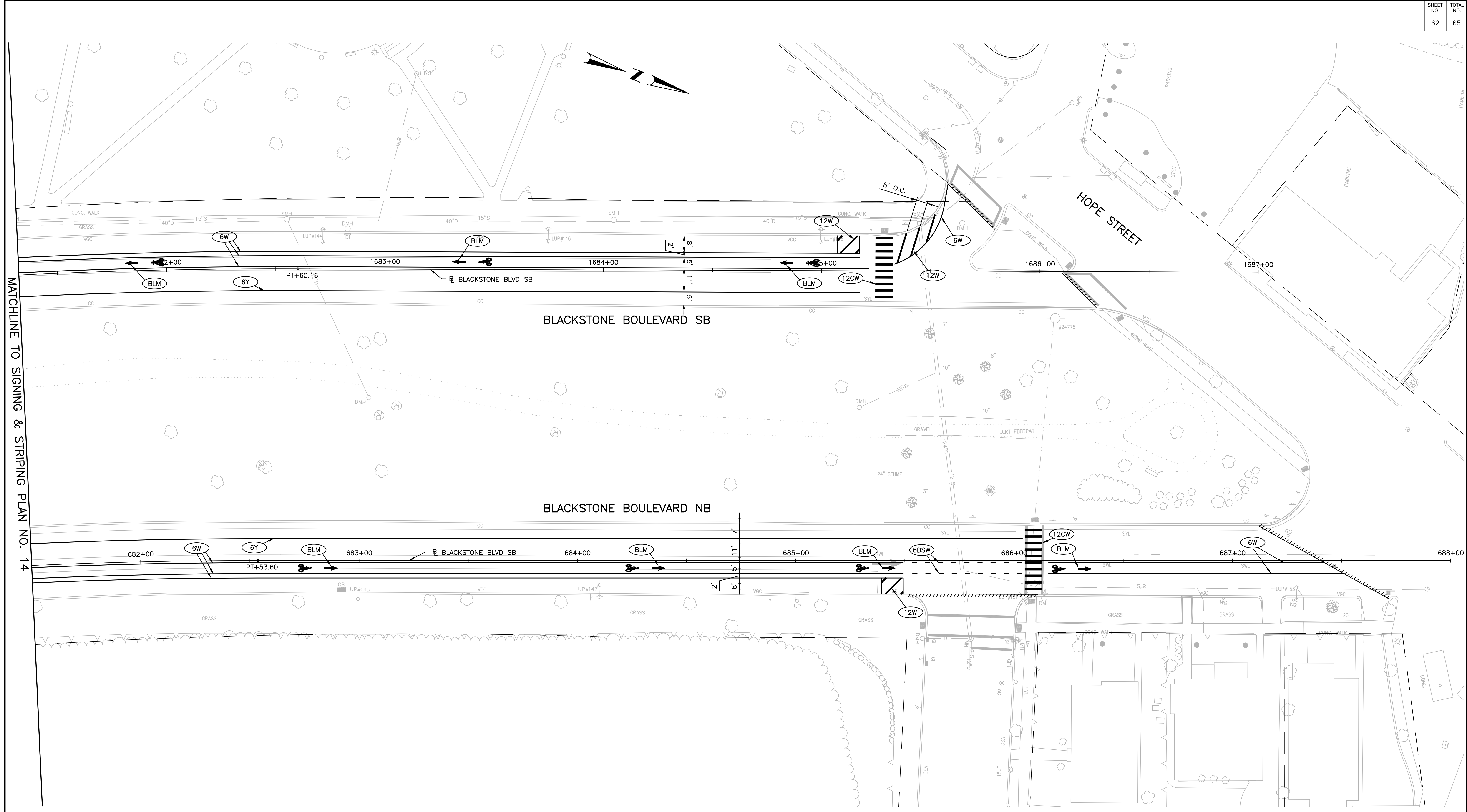
DWN: CHECKED: DATE: JUNE 2018 SCALE



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MATCHLINE TO SIGNING & STRIPING PLAN NO. 14



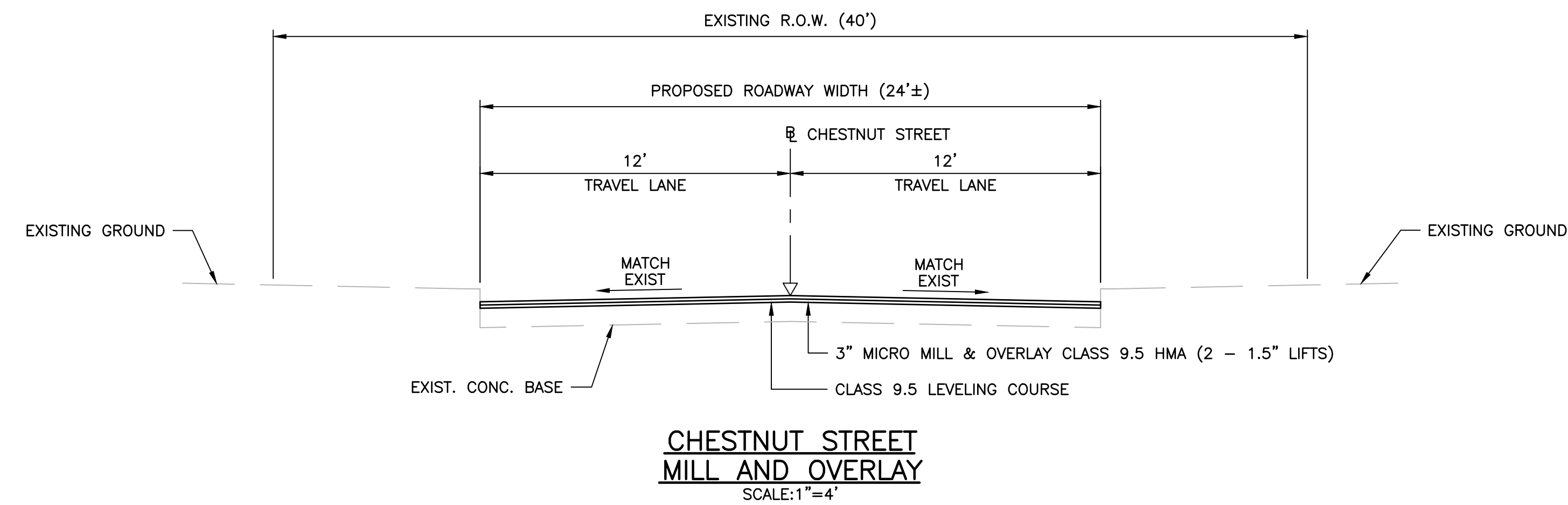
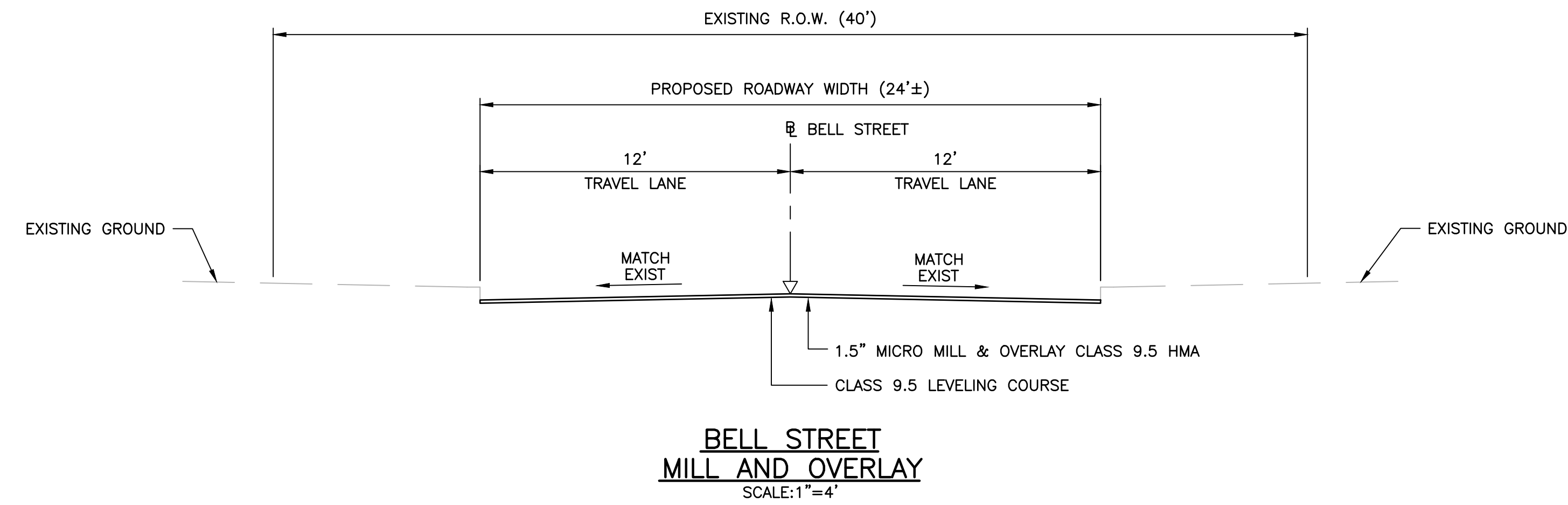
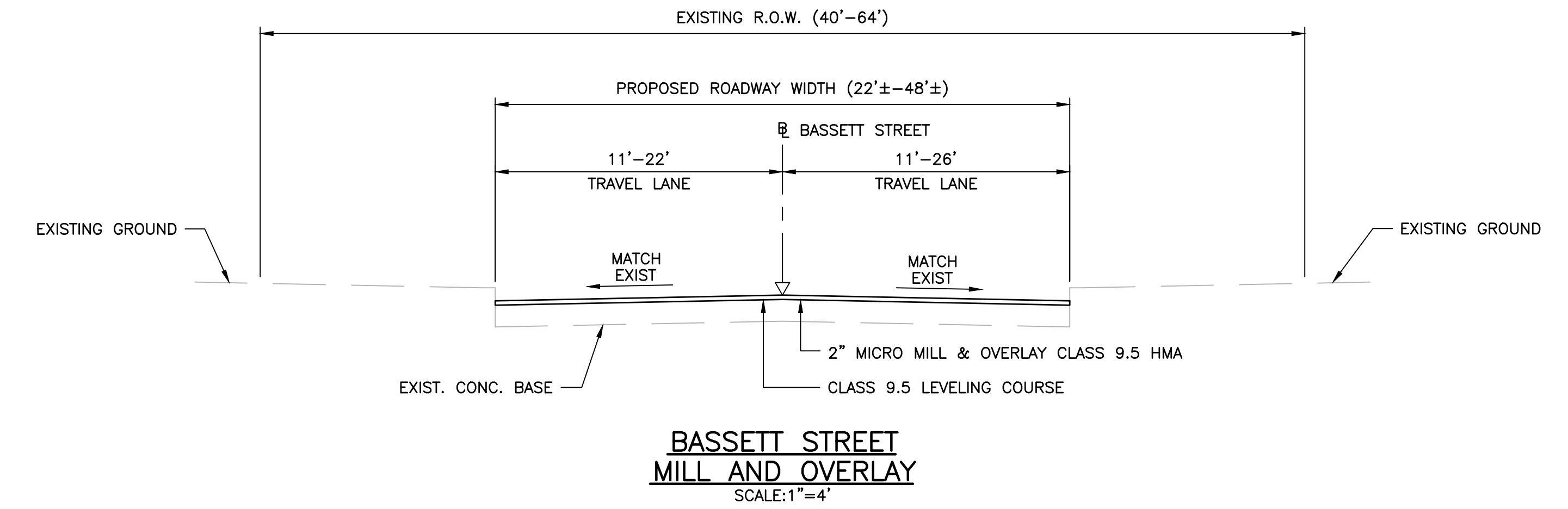
REVISIONS			City of Providence	
NO.	DATE	BY		
			PROVIDENCE 2018 CAPITAL IMPROVEMENT PLAN PAVING CONTRACT 2	
			PROVIDENCE	RHODE ISLAND
			BLACKSTONE BOULEVARD SIGNING & STRIPING PLAN NO. 15	
			DWN:	CHECKED: DATE: JUNE 2018 SCALE:



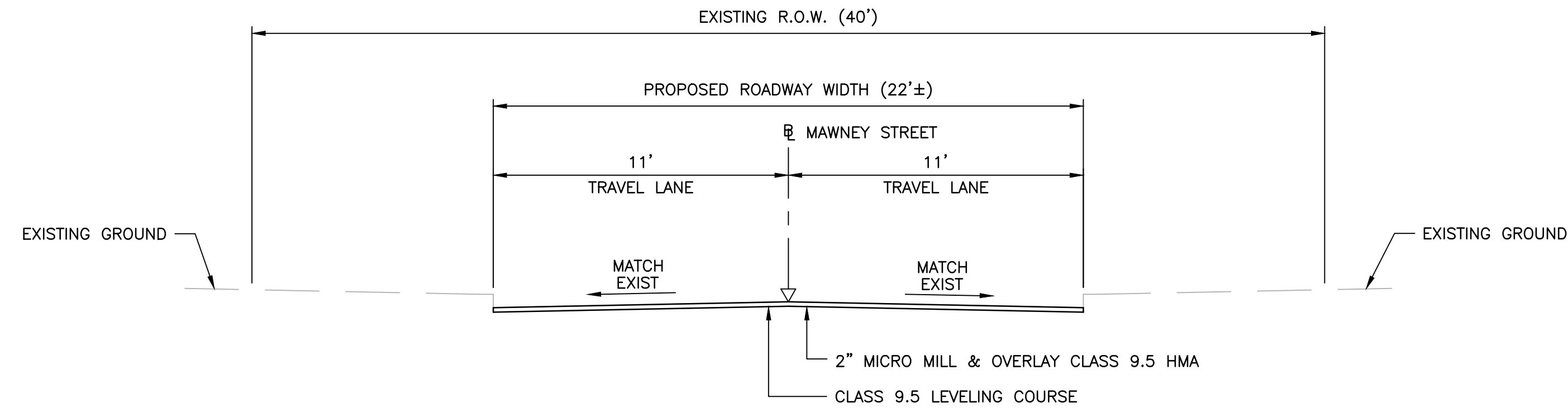
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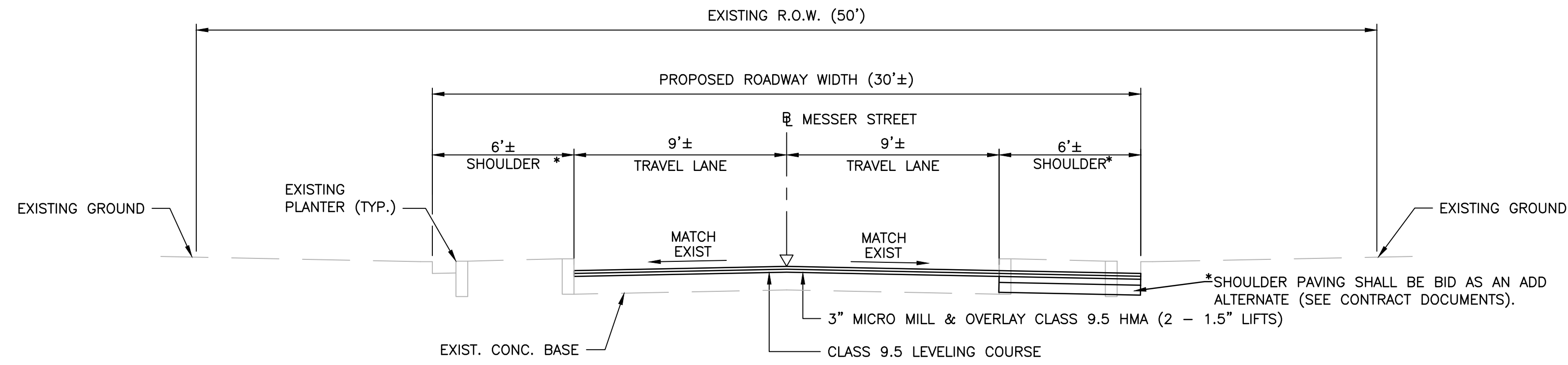
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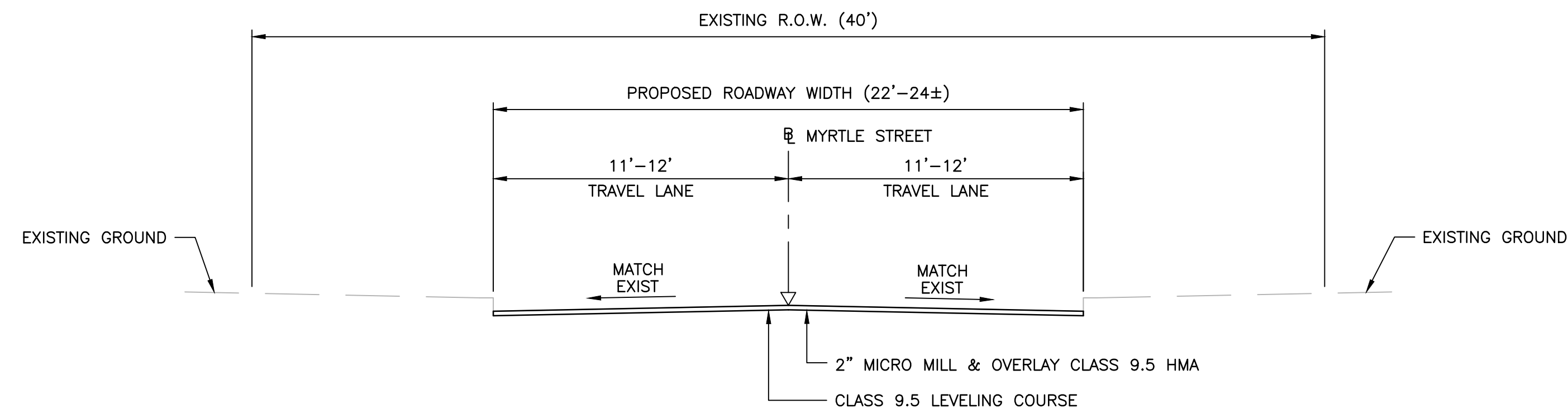
REVISIONS			City of Providence
NO.	DATE	BY	
			PROVIDENCE 2018 CAPITAL IMPROVEMENT PLAN PAVING CONTRACT 3
			PROVIDENCE RHODE ISLAND
			TYPICAL SECTIONS NO. 2
			DWN: CHECKED: DATE: JUNE 2018 SCALE:



MAWNEY STREET
MILL AND OVERLAY
SCALE: 1"=4'




MESSER STREET
MILL AND OVERLAY
SCALE: 1"=4'

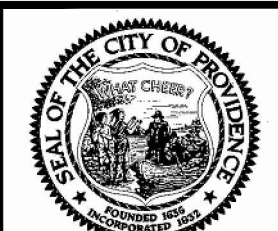


MYRTLE STREET
MILL AND OVERLAY
SCALE: 1"=4'

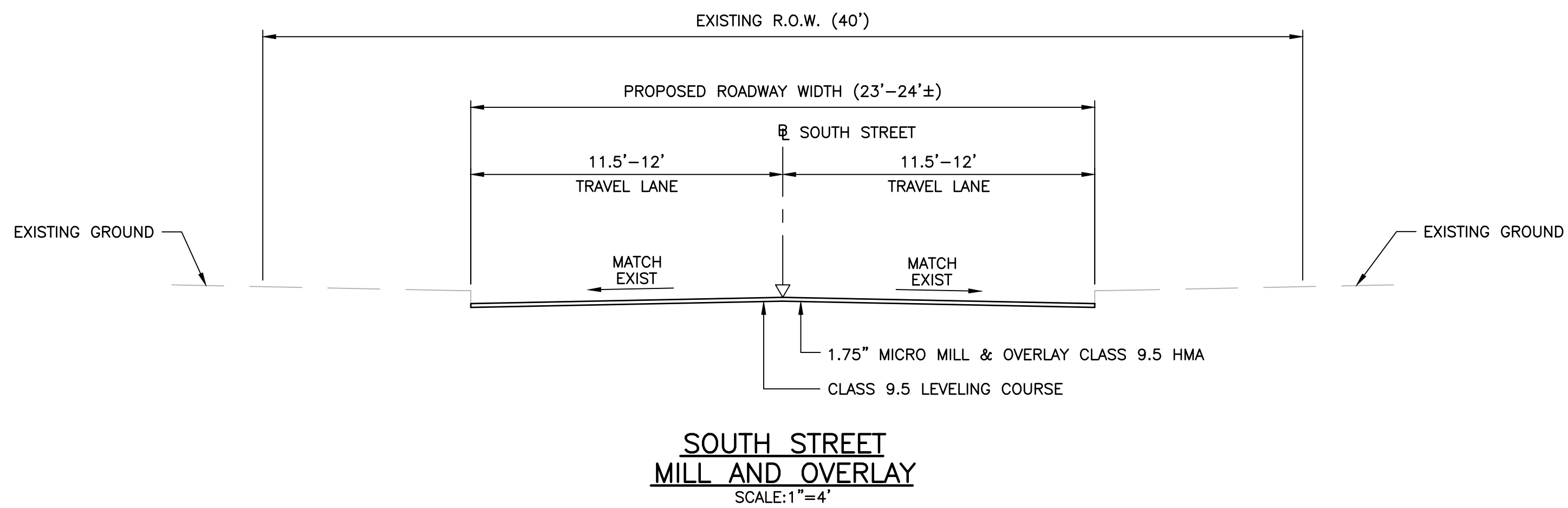
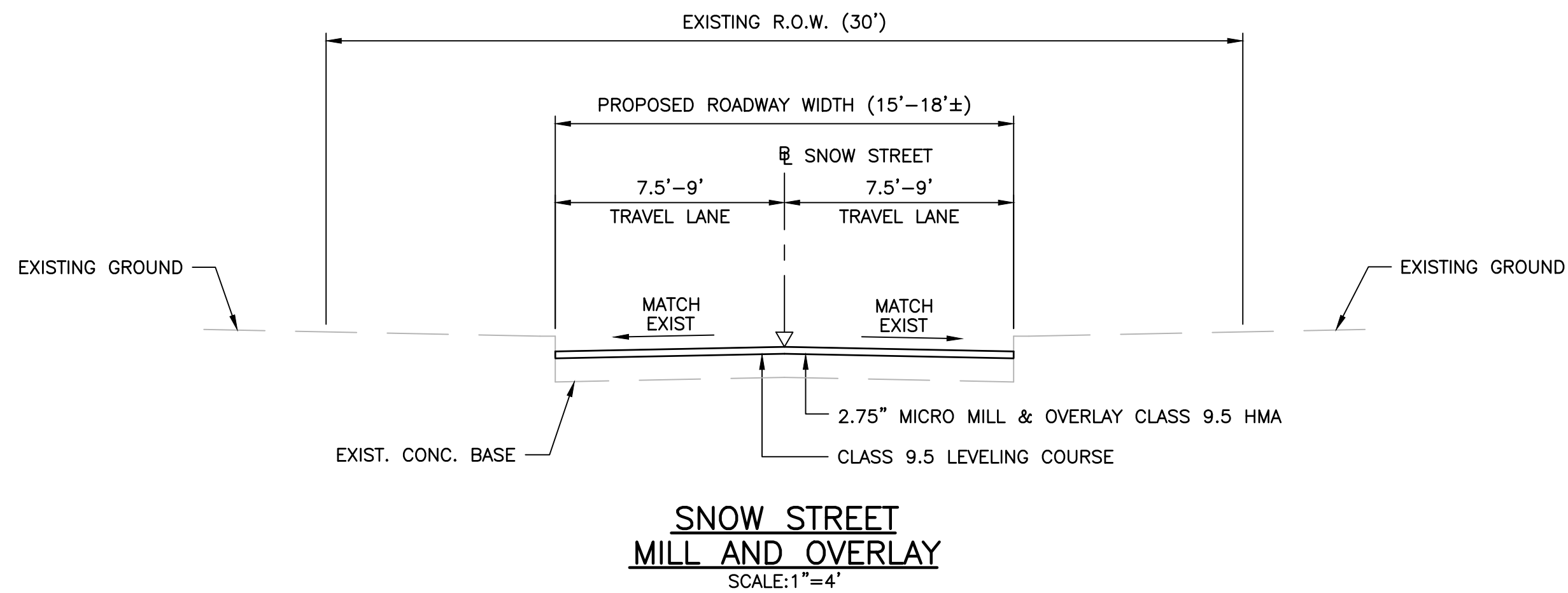
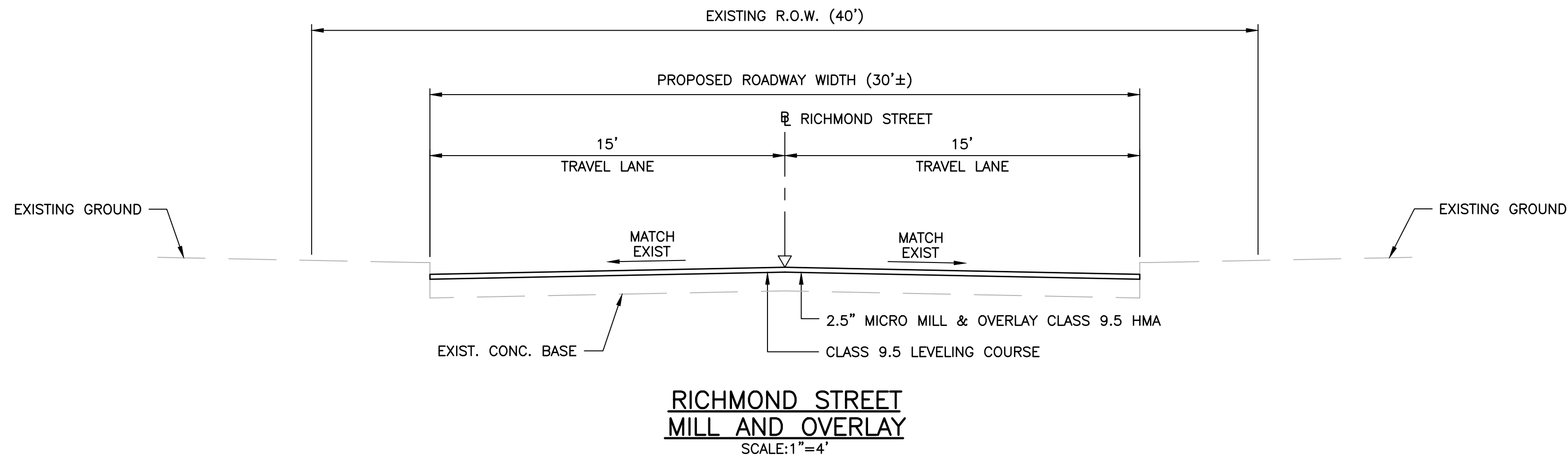
REVISIONS			City of Providence	
NO.	DATE	BY		
			PROVIDENCE 2018 CAPITAL IMPROVEMENT PLAN PAVING CONTRACT 3	
			PROVIDENCE	RHODE ISLAND
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			DWN:	CHECKED: DATE: JUNE 2018 SCALE:



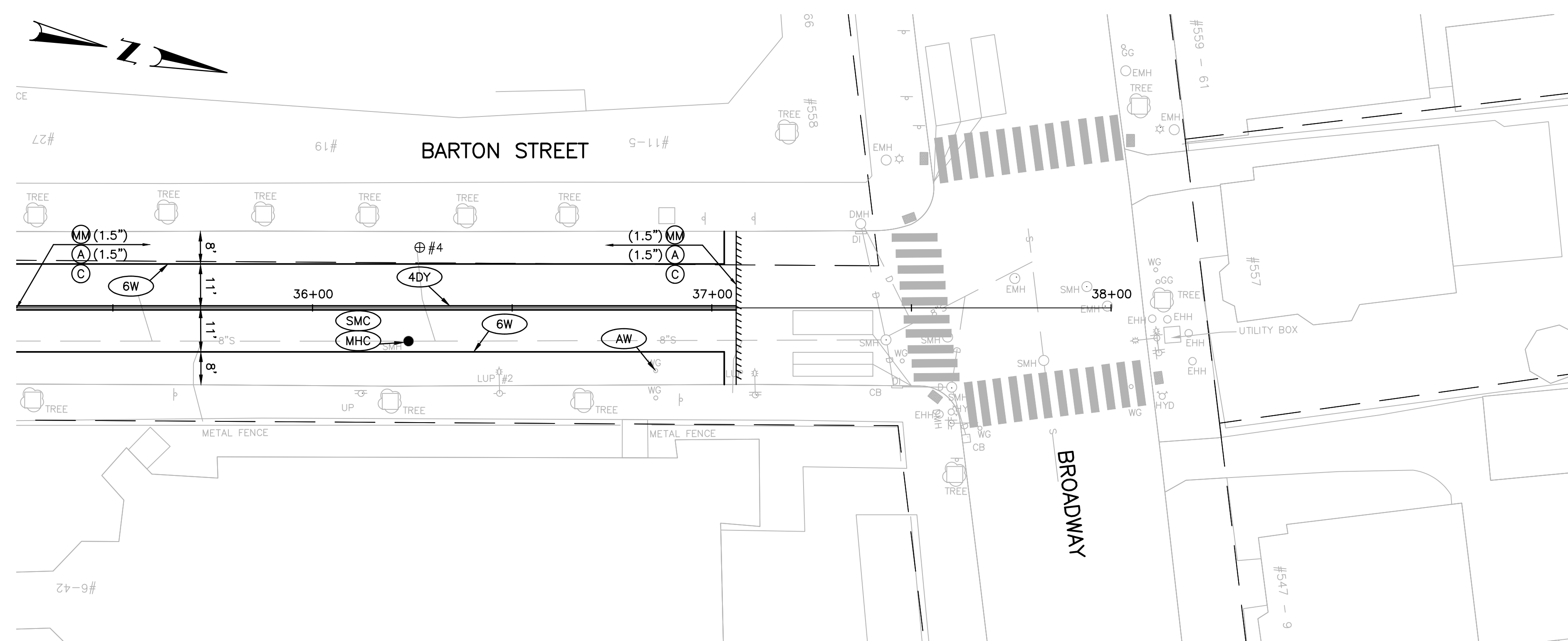
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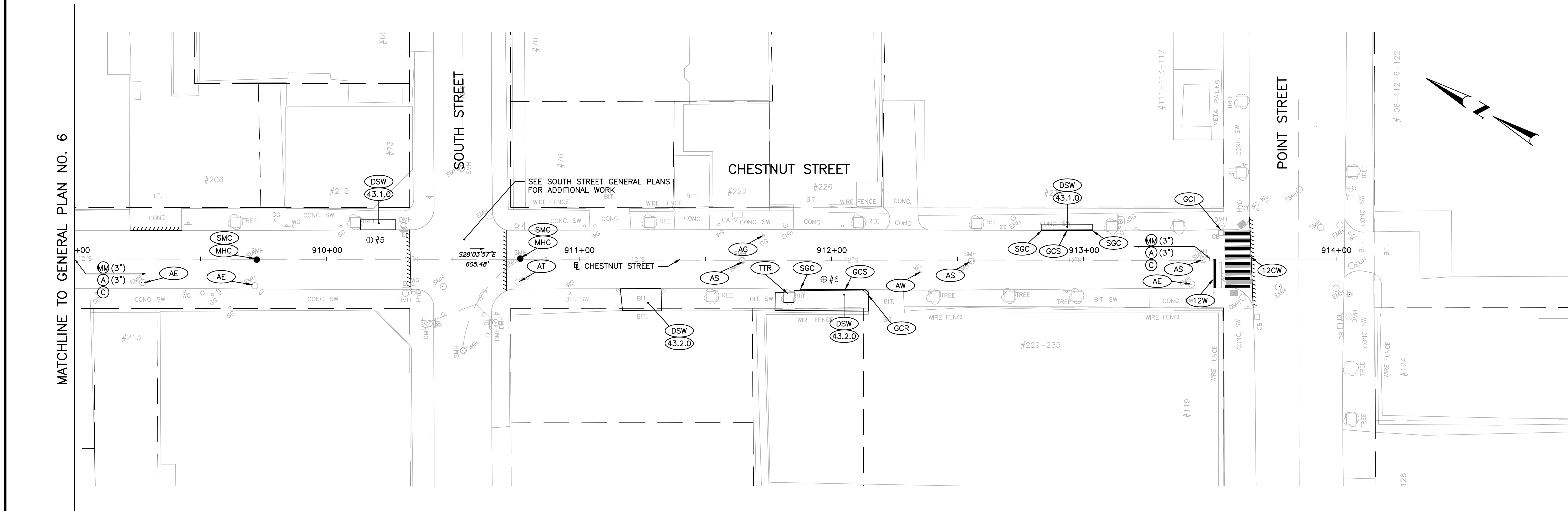
REVISIONS			City of Providence	
NO.	DATE	BY		
			PROVIDENCE 2018 CAPITAL IMPROVEMENT PLAN PAVING CONTRACT 3	
			PROVIDENCE	RHODE ISLAND
			TYPICAL SECTIONS NO. 7	
			DWN:	CHECKED: DATE: JUNE 2018 SCALE:



XXXXX_V1_018_GENERAL001-BARTON

LOCATION	CURB REVEAL		ROADWAY GUTTER SLOPE		TRANSITION LENGTH	
	LEFT SIDE	RIGHT SIDE	LEFT SIDE	RIGHT SIDE	LEFT SIDE	RIGHT SIDE
STA 908+00 LT	3"	3"	2.7%	3.7%	RHH	RHH
STA 908+28 LT	3"	4"	4.0%	0.7%	8'	6'

XXXXX_V1_021_GENERAL001-CHESTNUT

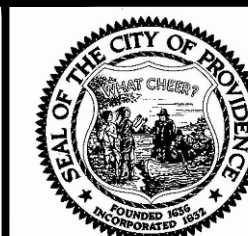


NOTES:

1. ALL INLETS AND CATCH BASINS AND THEIR PIPE, LATERALS WITHIN THE PAVING LIMITS SHALL BE CLEANED AND FLUSHED.
2. ALL CATCH BASINS SHALL HAVE PROPERLY SIZED INLET PROTECTION DEVICES INSTALLED AFTER CLEANING.
3. CONTRACTOR SHALL NOTE THAT EXISTING CONCRETE BASE WAS IDENTIFIED IN THE PAVEMENT CORES OF THIS STREET. FOLLOWING MILLING, CONTRACTOR SHALL REPAIR BASE AT THE DIRECTION OF THE ENGINEER.



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City of Providence

PROVIDENCE 2018
CAPITAL IMPROVEMENT PLAN
PAVING CONTRACT 3

PROVIDENCE

RHODE ISLAND


CHESTNUT STREET
GENERAL PLAN NO. 7

DWN:	CHECKED:	DATE: JUNE 2018	SCALE:
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WHEEL CHAIR RAMP TRANSITION CHART						
LOCATION	CURB REVEAL		ROADWAY GUTTER SLOPE		TRANSITION LENGTH	
	LEFT SIDE	RIGHT SIDE	LEFT SIDE	RIGHT SIDE	LEFT SIDE	RIGHT SIDE
STA 210+78 LT	2"	3"	1.2%	0.6%	RHH	RHH
STA 212+06 RT	3.5"	4.5"	1.2%	2.0%	RHH	RHH
STA 213+45 RT	3"	5"	0.4%	1.9%	RHH	RHH
STA 214+62 RT	4.5"	4"	0.9%	0.3%	RHH	RHH
STA 218+51 RT	4.5"	1"	1.5%	1.2%	RHH	RHH
STA 218+66 LT	1"	2.5"	1.0%	1.4%	RHH	RHH
STA 218+90 RT	3"	4"	1.5%	0.0%	7'	12.5'
STA 219+05 LT	5"	4"	1.0%	2.0%	RHH	RHH

- NOTES:**
- ALL INLETS AND CATCH BASINS AND THEIR PIPE LATERALS WITHIN THE PAVING LIMITS SHALL BE CLEANED AND FLUSHED.
 - ALL CATCH BASINS SHALL HAVE PROPERLY SIZED INLET PROTECTION DEVICES INSTALLED AFTER CLEANING.
 - CONTRACTOR SHALL NOTE THAT EXISTING CONCRETE BASE WAS IDENTIFIED IN THE PAVEMENT CORES OF THIS STREET. FOLLOWING MILLING, CONTRACTOR SHALL REPAIR BASE AT THE DIRECTION OF THE ENGINEER.
 - REMOVAL AND DISPOSAL OF FLEXIBLE PAVEMENT AND PAVING OF PARKING LANE SHALL BID AS A ADD ALTERNATE. SEE CONTRACT DOCUMENTS FOR ALTERNATE BID ITEMS AND QUANTITIES. PAVEMENT STRUCTURE SHALL BE 3" CLASS 9.5 HMA WITH CLASS 9.5 HMA FOR LEVELING AND ASPHALT EMULSION TACK COAT.
 - CONTRACTOR SHALL TRIM TREES ALONG THE ENTIRE LENGTH OF THE ROADWAY AT THE DIRECTION OF THE ENGINEER AND THE TREE WARDEN.



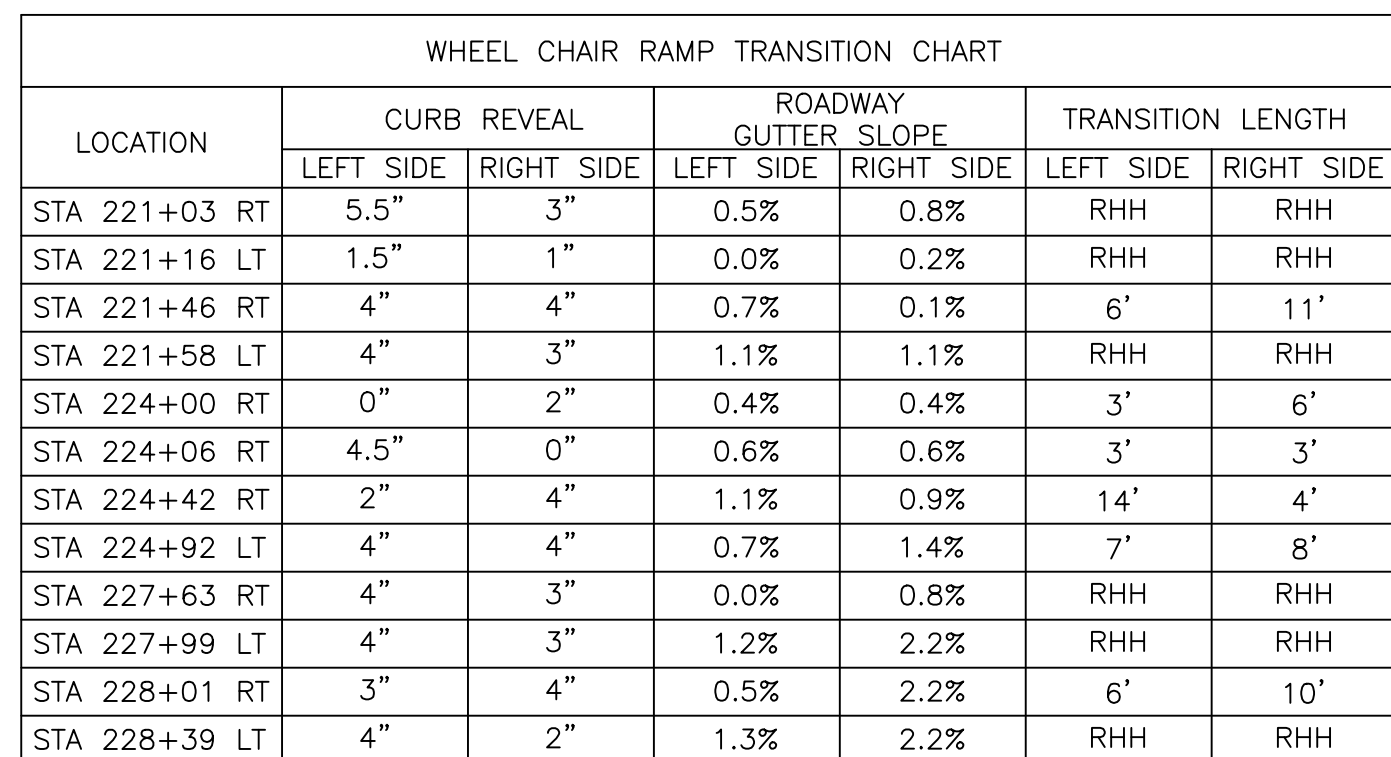
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Providence, RI 02903
401.272.8100



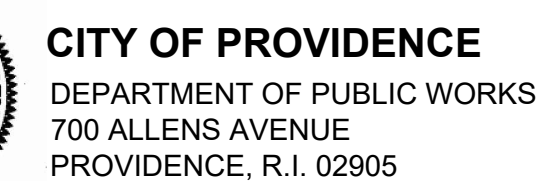
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PROVIDENCE, R.I. 02905

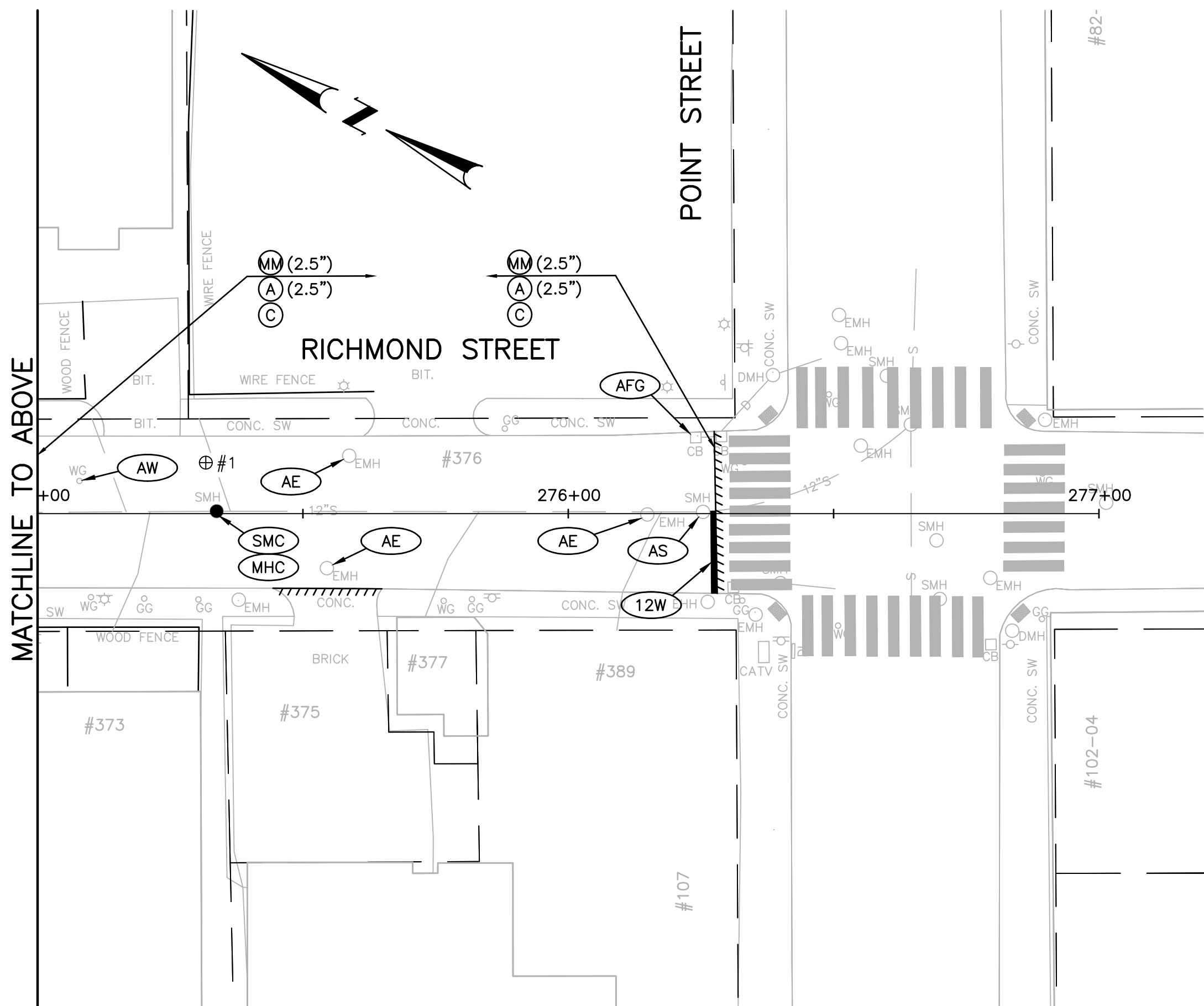
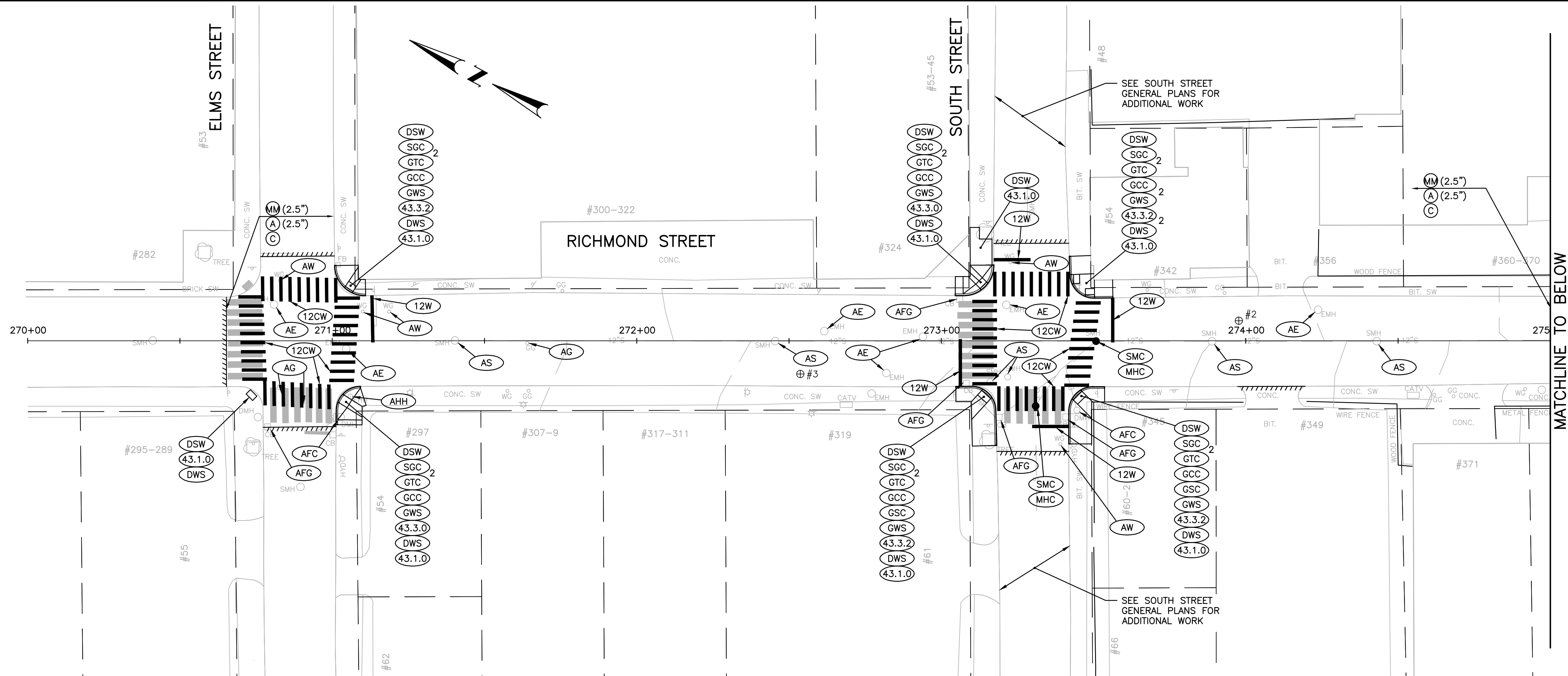
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NO.	DATE	BY
1	7/13/18	VHB

City of Providence
PROVIDENCE 2018
CAPITAL IMPROVEMENT PLAN
PAVING CONTRACT 3
PROVIDENCE RHODE ISLAND
**MESSER STREET
GENERAL PLAN NO. 17**
DWN: CHECKED: DATE: JUNE 2018 SCALE:



DWN:	CHECKED:	DATE: JUNE 2018	SCALE:
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WHEEL CHAIR RAMP TRANSITION CHART						
LOCATION	CURB REVEAL		ROADWAY GUTTER SLOPE		TRANSITION LENGTH	
	LEFT SIDE	RIGHT SIDE	LEFT SIDE	RIGHT SIDE	LEFT SIDE	RIGHT SIDE
STA 271+04 RT	1"	4.5"	0.5%	1.4%	6.5'	7.5'
STA 271+06 LT	2.5"	0.5"	3.7%	1.6%	8'	4.5'
STA 273+13 LT	3"	4"	0.8%	4.5%	9'	6'
STA 273+14 RT	4"	3.5"	5.0%	1.4%	16'	9'
STA 273+44 LT	2"		5.3%		6'	
STA 273+45 RT	2"	4"	2.0%	4.9%	8'	15'
STA 273+49 LT		3.5"		2.2%		6'

- NOTES:
- ALL INLETS AND CATCH BASINS AND THEIR PIPE LATERALS WITHIN THE PAVING LIMITS SHALL BE CLEANED AND FLUSHED.
 - ALL CATCH BASINS SHALL HAVE PROPERLY SIZED INLET PROTECTION DEVICES INSTALLED AFTER CLEANING.
 - CONTRACTOR SHALL NOTE THAT EXISTING CONCRETE BASE WAS IDENTIFIED IN THE PAVEMENT CORES OF THIS STREET. FOLLOWING MILLING, CONTRACTOR SHALL REPAIR BASE AT THE DIRECTION OF THE ENGINEER.



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NO.	DATE	BY

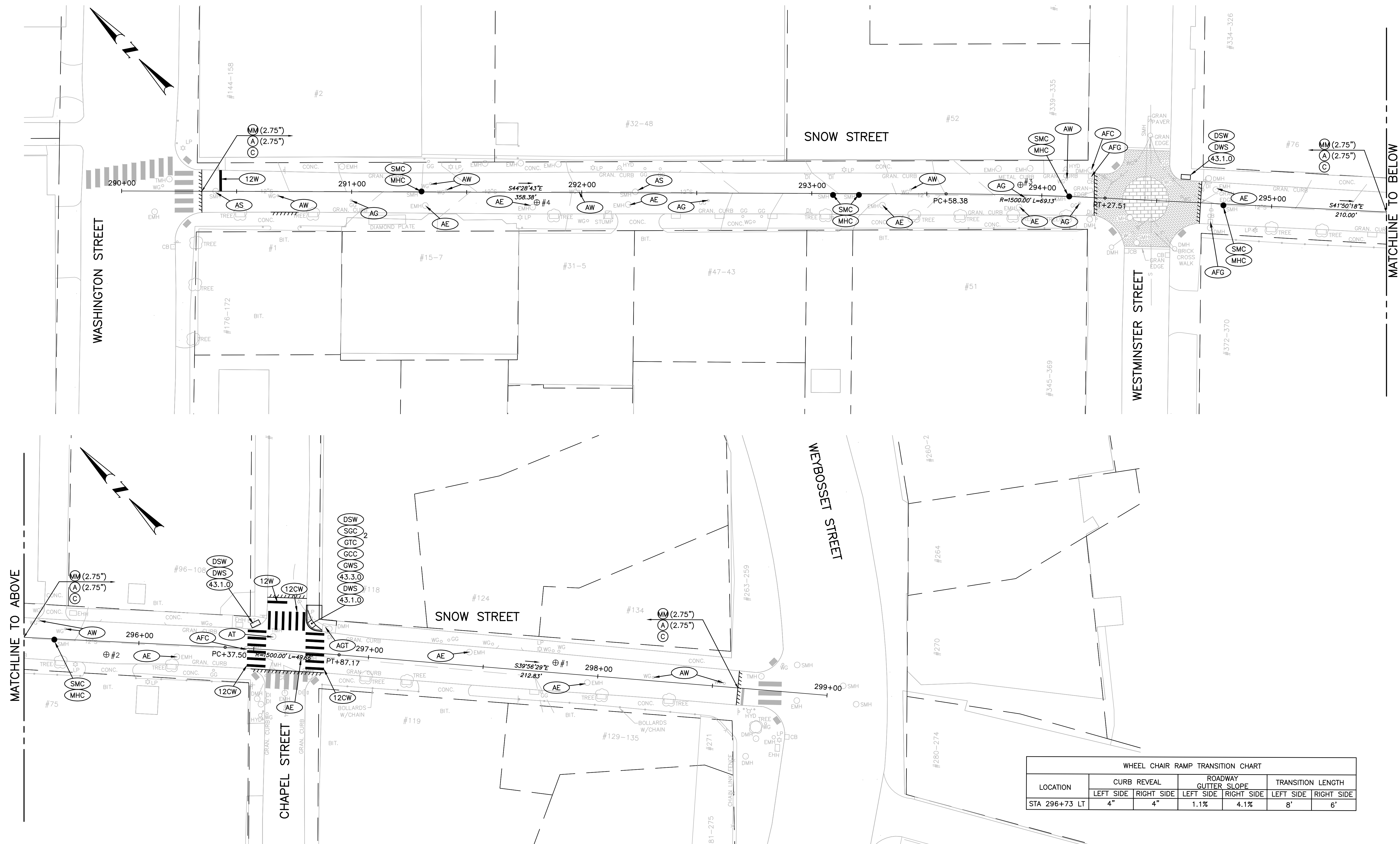
City of Providence

PROVIDENCE 2018
CAPITAL IMPROVEMENT PLAN
PAVING CONTRACT 3

PROVIDENCE RHODE ISLAND

**RICHMOND STREET
GENERAL PLAN NO. 24**

DWN: CHECKED: DATE: JUNE 2018 SCALE:

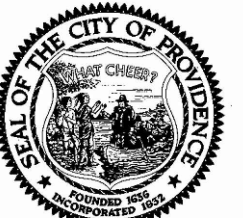


WHEEL CHAIR RAMP TRANSITION CHART						
LOCATION	CURB REVEAL		ROADWAY GUTTER SLOPE		TRANSITION LENGTH	
	LEFT SIDE	RIGHT SIDE	LEFT SIDE	RIGHT SIDE	LEFT SIDE	RIGHT SIDE
STA 296+73 LT	4"	4"	1.1%	4.1%	8'	6'

- NOTES:
- ALL INLETS AND CATCH BASINS AND THEIR PIPE LATERALS WITHIN THE PAVING LIMITS SHALL BE CLEANED AND FLUSHED.
 - ALL CATCH BASINS SHALL HAVE PROPERLY SIZED INLET PROTECTION DEVICES INSTALLED AFTER CLEANING.
 - CONTRACTOR SHALL NOTE THAT EXISTING CONCRETE BASE WAS IDENTIFIED IN THE PAVEMENT CORES OF THIS STREET. FOLLOWING MILLING, CONTRACTOR SHALL REPAIR BASE AT THE DIRECTION OF THE ENGINEER.



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REVISIONS		
NO.	DATE	BY

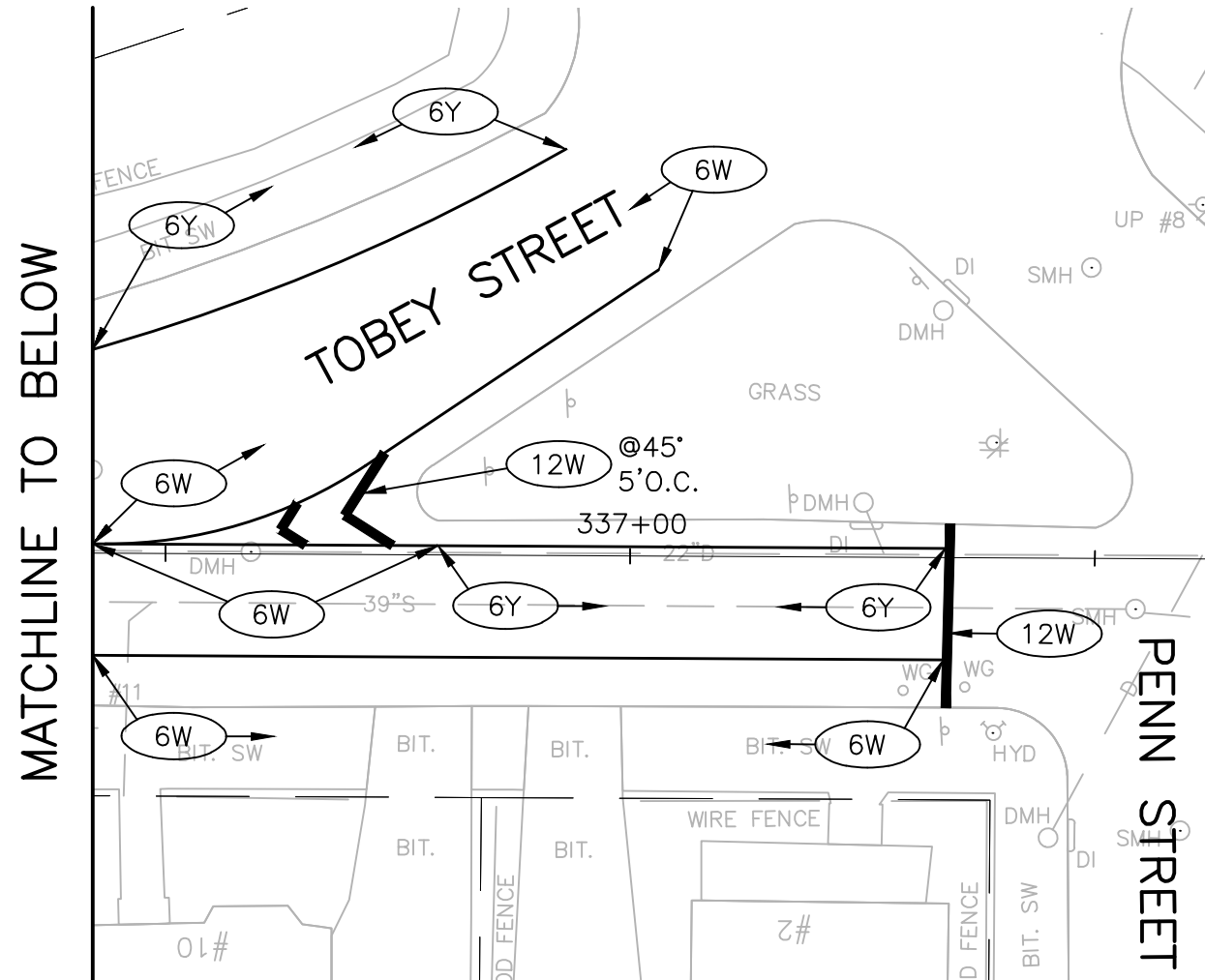
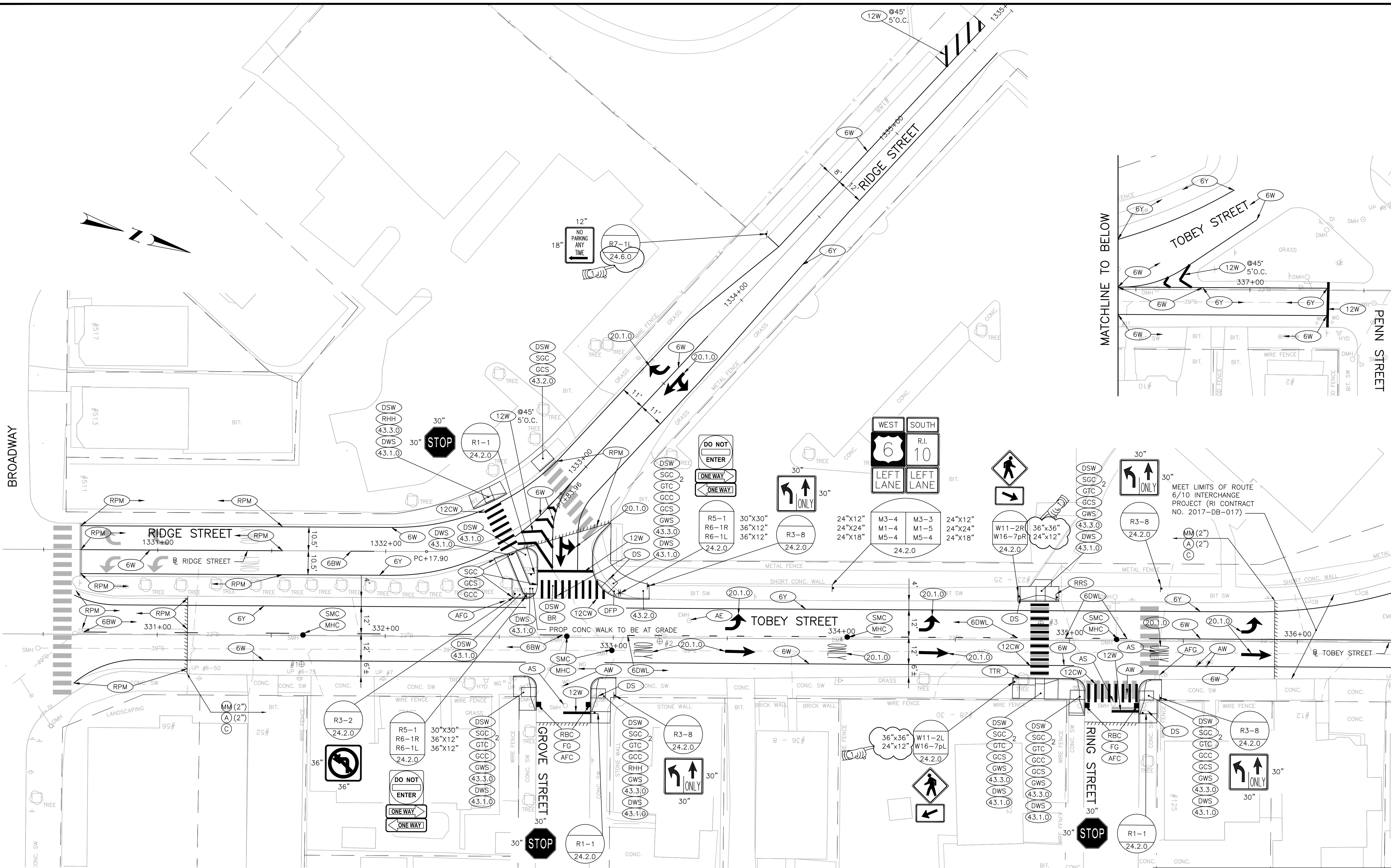
City of Providence

PROVIDENCE 2018
CAPITAL IMPROVEMENT PLAN
PAVING CONTRACT 3

PROVIDENCE RHODE ISLAND

**SNOW STREET
GENERAL PLAN NO. 25**


DWN: CHECKED: DATE: JUNE 2018 SCALE:



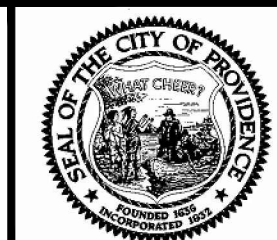
WHEEL CHAIR RAMP TRANSITION CHART						
LOCATION	CURB REVEAL		ROADWAY GUTTER SLOPE		TRANSITION LENGTH	
	LEFT SIDE	RIGHT SIDE	LEFT SIDE	RIGHT SIDE	LEFT SIDE	RIGHT SIDE
STA 332+66 RT	3"	3.5"	5.0%	3.0%	6'	8'
STA 332+90 RT	3.5"	3"	2.6%	3.5%	8'	6'
STA 332+96 LT	4"	4"	3.3%	2.1%	11.5'	9.5'
STA 334+87 LT	4.5"	4.5"	1.0%	1.0%	7'	6'
STA 334+87 RT	5"	5"	1.0%	1.0%	6'	7'
STA 335+07 RT	5"	5"	0.6%	1.0%	6'	8'
STA 335+31 RT	4.5"	3.5"	0.0%	4.8%	8'	10'
STA 337+44 RT	6"	4"	0.3%	1.0%	12'	6'
STA 337+79 RT	5.5"	6"	1.5%	0.8%	6'	8'
STA 1332+54 LT	4"	4"	1.0%	1.2%	6'	8'



- NOTES:
- ALL INLETS AND CATCH BASINS AND THEIR PIPE LATERALS WITHIN THE PAVING LIMITS SHALL BE CLEANED AND FLUSHED.
 - ALL CATCH BASINS SHALL HAVE PROPERLY SIZED INLET PROTECTION DEVICES INSTALLED AFTER CLEANING.



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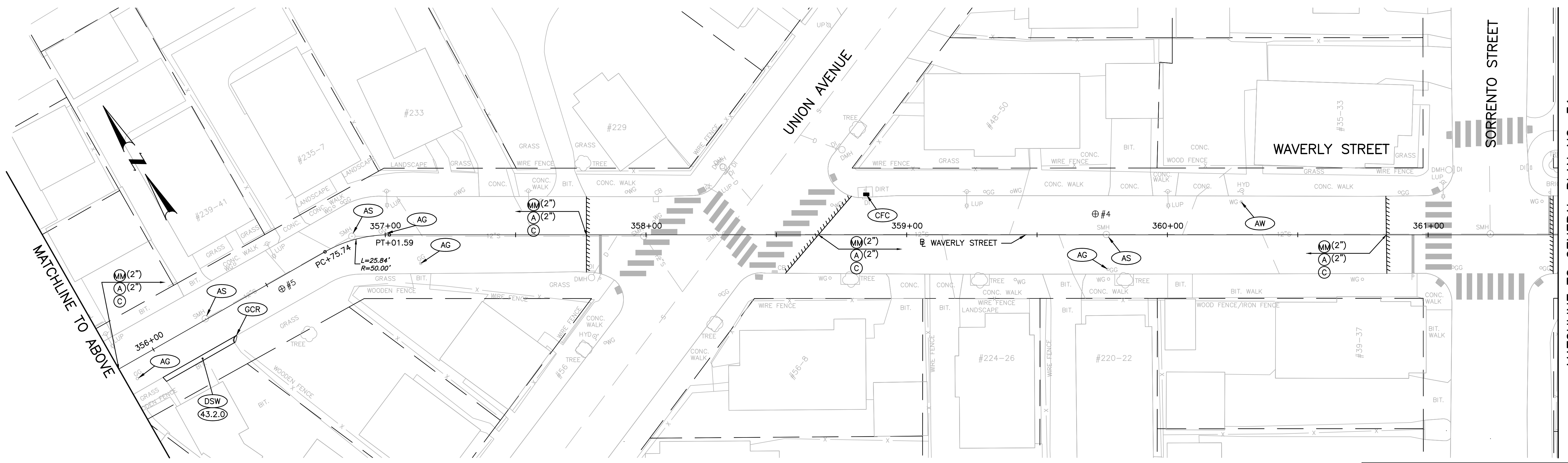
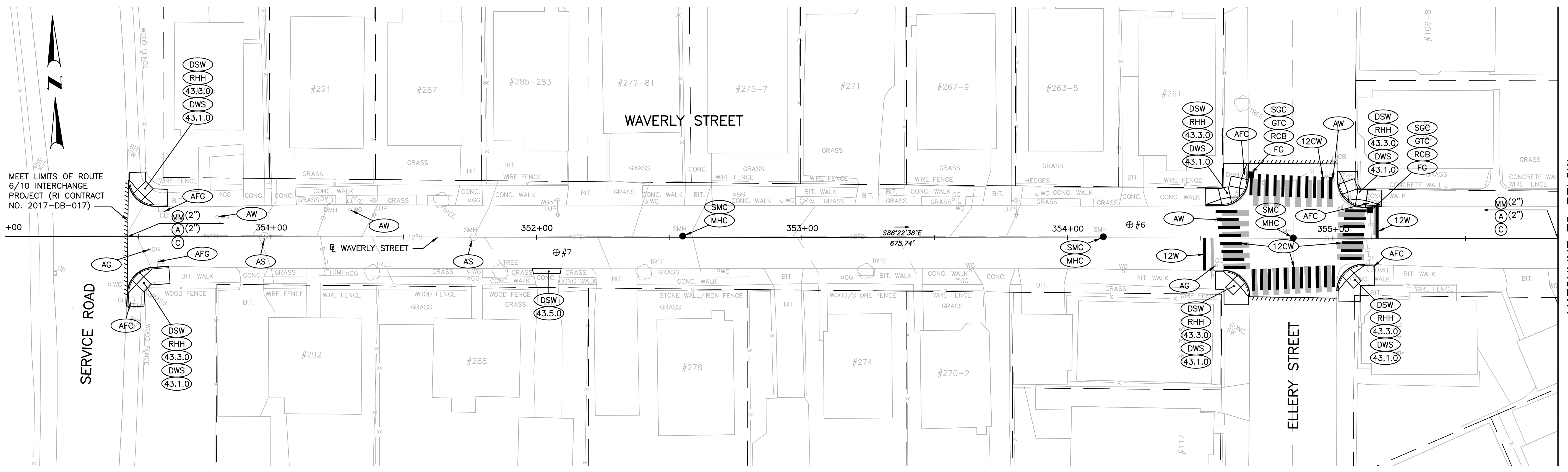
City of Providence

PROVIDENCE 2018
CAPITAL IMPROVEMENT PLAN
PAVING CONTRACT 3

PROVIDENCE RHODE ISLAND

**TOBEY STREET
GENERAL PLAN NO. 29**


DWN: CHECKED: DATE: JUNE 2018 SCALE:




WHEEL CHAIR RAMP TRANSITION CHART						
LOCATION	CURB REVEAL		ROADWAY GUTTER SLOPE		TRANSITION LENGTH	
	LEFT SIDE	RIGHT SIDE	LEFT SIDE	RIGHT SIDE	LEFT SIDE	RIGHT SIDE
STA 350+49 LT	4.5"	6"	1.7%	1.5%	RHH	RHH
STA 350+49 RT	4.5"	5"	1.5%	3.2%	RHH	RHH
STA 354+60 LT	3.5"	3.5"	1.4%	1.4%	RHH	RHH
STA 354+65 RT	2"	2"	1.1%	1.4%	RHH	RHH
STA 354+68 LT	4"	4"	0.1%	0.1%	RHH	6'
STA 355+02 LT	1.5"	1.5"	0.2%	0.2%	RHH	RHH
STA 355+05 RT	2"	2"	3.4%	1.1%	RHH	RHH
STA 355+05 LT	3"	3"	3.7%	3.7%	RHH	6'



- NOTES:**
- ALL INLETS AND CATCH BASINS AND THEIR PIPE LATERALS WITHIN THE PAVING LIMITS SHALL BE CLEANED AND FLUSHED.
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City of Providence

PROVIDENCE 2018
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PAVING CONTRACT 3

PROVIDENCE

Rhode Island

**WAVERLY STREET
GENERAL PLAN NO. 30**

DWN: CHECKED: DATE: JUNE 2018 SCALE: