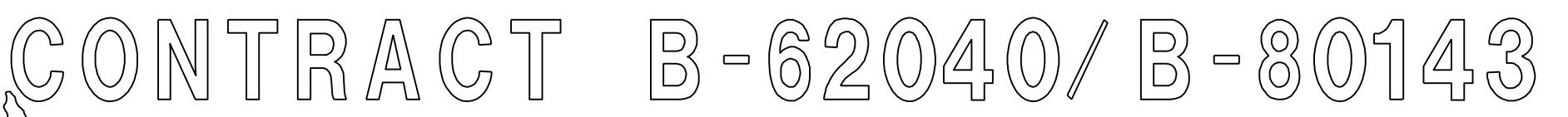


Appendix D: Staten Island North Shore Bus Rapid Transit Design Drawings

THE METROPOLITAN TRANSPORTATION AUTHORITY ACTING BY THE NEW YORK CITY TRANSIT AUTHORITY





ENVIRONMENTAL AND
ENGINEERING SERVICES FOR THE
STATEN ISLAND NORTH SHORE
BUS RAPID TRANSIT SYSTEM IN
THE BOROUGH OF STATEN
ISLAND, NEW YORK

REVISED JUNE 16, 2023





SHORE BRT

STATEN

ISLAND

QUEENS

BROOKLYN

INDEX OF DRAWINGS

SHEET DWG. DESCRIPTION NO. NO. COVER SHEET INDEX OF DRAWINGS, LEGEND, ABBREVIATIONS AND GENERAL NOTES C-002 KEY PLAN C-003 TYPICAL SECTION - SHEET 1 OF 11 C-004 TYPICAL SECTION - SHEET 2 OF 11 TYPICAL SECTION - SHEET 3 OF 11 C-005 TYPICAL SECTION - SHEET 4 OF 11 C-006 TYPICAL SECTION - SHEET 5 OF 11 C - 007TYPICAL SECTION - SHEET 6 OF 11 C-009 TYPICAL SECTION - SHEET 7 OF 11 C-010 TYPICAL SECTION - SHEET 8 OF 11 C-011 TYPICAL SECTION - SHEET 9 OF 11 C-012 TYPICAL SECTION - SHEET 10 OF 11 C-013 TYPICAL SECTION - SHEET 11 OF 11 PLAN AND PROFILE - SHEET 1 OF 15 C-101 PLAN AND PROFILE - SHEET 2 OF 15 C-102 PLAN AND PROFILE - SHEET 3 OF 15 C-103 PLAN AND PROFILE - SHEET 4 OF 15 19 C-104 PLAN AND PROFILE - SHEET 5 OF 15 C-105 PLAN AND PROFILE - SHEET 6 OF 15 C-106 PLAN AND PROFILE - SHEET 7 OF 15 C-107 PLAN AND PROFILE - SHEET 8 OF 15 C-108 PLAN AND PROFILE - SHEET 9 OF 15 C-109 PLAN AND PROFILE - SHEET 10 OF 15 C-110 PLAN AND PROFILE - SHEET 11 OF 15 C-111 PLAN AND PROFILE - SHEET 12 OF 15 27 C-112 PLAN AND PROFILE - SHEET 13 OF 15 C-113 PLAN - SHEET 14 OF 15 C-114 PROFILE - SHEET 15 OF 15 A-200 ARLINGTON STATION SITE PLAN A-201 MARINERS HARBOR STATION SITE PLAN A-202 ELM PARK / MORNINGSTAR STATION SITE PLAN A-203 PORT RICHMOND STATION SITE PLAN A-204 WEST BRIGHTON STATION SITE PLAN A-205 LIVINGSTON STATION SITE PLAN A-206 NEW BRIGHTON STATION SITE PLAN A-207 ST. GEORGE TERMINAL STATION SITE PLAN A-001 TYPICAL STATION SECTION SHEET 1 OF 4 TYPICAL STATION SECTION SHEET 2 OF 4 A-002 TYPICAL STATION SECTION SHEET 3 OF 4 A-004 TYPICAL STATION SECTION SHEET 4 OF 4 A-005 TYPICAL STATION CANOPY AND ELEMENTS PLAN, SECTION, ELEVATION

<u>ABBREVIATIONS</u>

BUS RAPID TRANSIT DESIGN FLOOD ELEVATION EASTBOUND ΕB ELEV ELEVATION EXPRESSWAY EXPWY LENGTH OF VERTICAL CURVE LVC NORTH SHORE RAIL ROAD NSRR NUMBER OVERHEAD OH POINT OF BEGINNING POINT OF VERTICAL CURVE PVC POINT OF VERTICAL INTERSECTION PVI POINT OF VERTICAL TANGENT PVT Rc RADIUS RATE OF CHANGE RIGHT OF WAY ROW SHOULDER SPEED STATION STA SUPERELEVATION Ea TYPICAL TYP UNDERGRADE UG WESTBOUND

LEGEND

FACE OF CURB

----- BASELINE

145+00
---+--- BASELINE STATIONING

• CURVE POINT

▲ INTERSECTION POINT

----- EXISTING PROPERTY LINE

0

NORTH ARROW

RETAINING WALL

EXISTING TRAFFIC SIGNAL TO REMAIN

) PROPOSED TRANSIT ACTUATED TRAFFIC SIGNAL

PROPOSED LIGHT RAIL TRANSIT ACTUATED TRAFFIC SIGNAL

MODIFY EXISTING TRAFFIC SIGNAL TO INCLUDE PROPOSED LIGHT RAIL TRANSIT ACTIVATED TRAFFIC SIGNAL

GENERAL NOTES

- 1. THESE DRAWINGS ARE NOT TO BE USED FOR NEW CONSTRUCTION.
- 2. TOPOGRAPHIC INFORMATION SHOWN HEREON IS BASED ON AERIAL PHOTOGRAPHY WHICH WAS PERFORMED BY GEOD CORPORATION, NAIK CONSULTING GROUP PERFORMED ADDITIONAL SURVEY IN AREAS OBSCURED BY THE ORIGINAL AERIAL FLIGHT.
- O. VERTICAL DATUM IS NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- b. HORIZONTAL DATUM IS NORTH AMERICAN DATUM OF 1983. THE COORDINATE SYSTEM IS THE N.Y. STATE PLANE COORDINATE SYSTEM (NYSPCS), NY83-LIF-NAD83 LONG ISLAND ZONE.
- 3. PROPERTY LINES FROM NEW JERSEY GEOGRAPHIC INFORMATION NETWORK 2007 NJ HIGH RESOLUTION ORTHOIMAGERY AND ARE TO BE CONSIDERED APPROXIMATE.
- 4. STATIONING IS MEASURED ALONG PROPOSED BASELINE.

EVISION	DESCRIPTION	DATE	APPROVED

IT IS A VIOLATION OF THE PROFESSIONAL LICENSE LAW FOR ANY PERSON TO ALTER THIS DRAWING IN ANY WAY, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER. THE ALTERING CONSULTANT SHALL AFFIX HIS/HER SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS/HER SIGNATURE AND DATE OF ALTERATION. A TA ENGINEER DOES NOT NEED TO ADD HIS/HER SEAL.



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Transit Authority

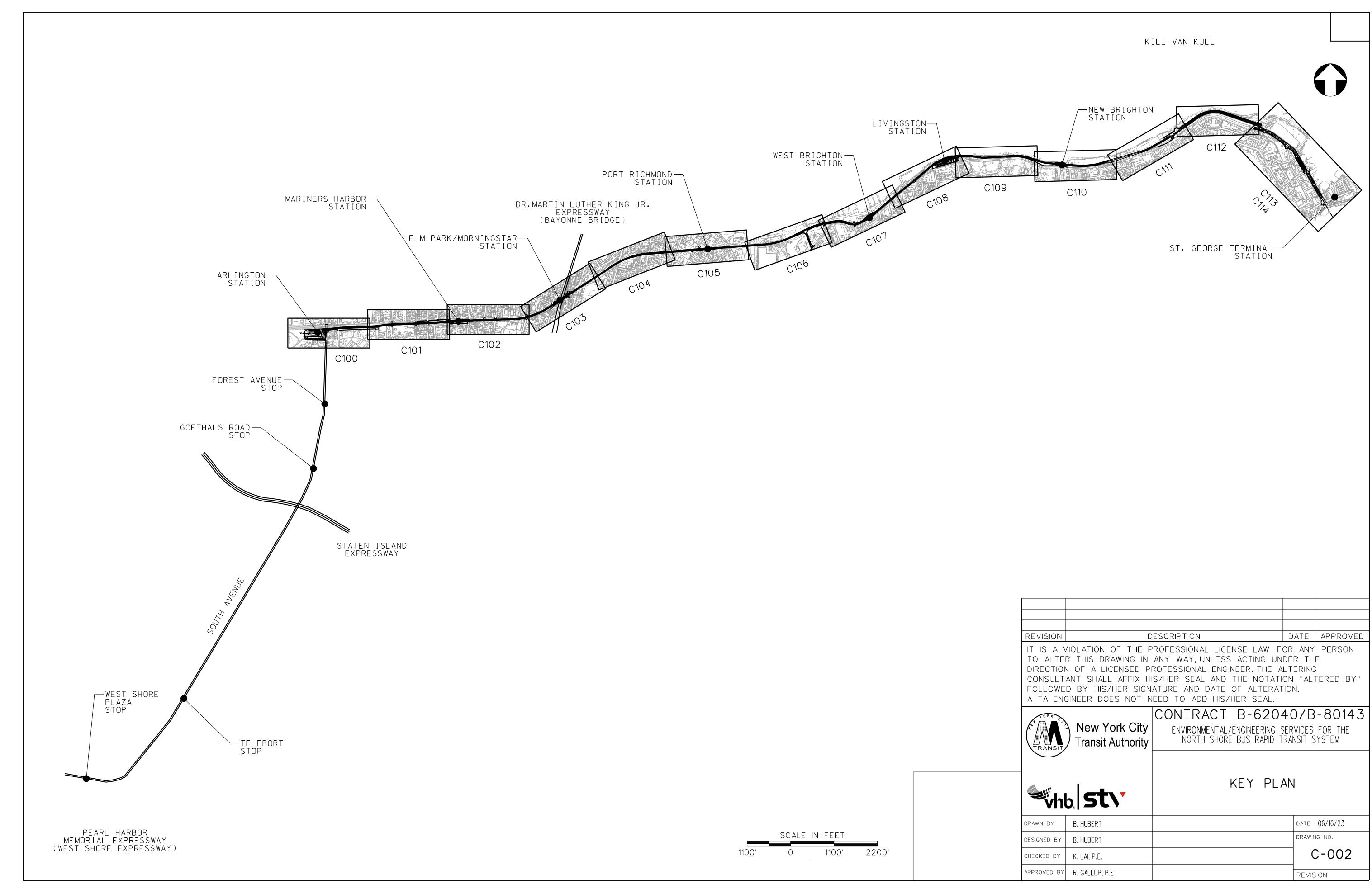
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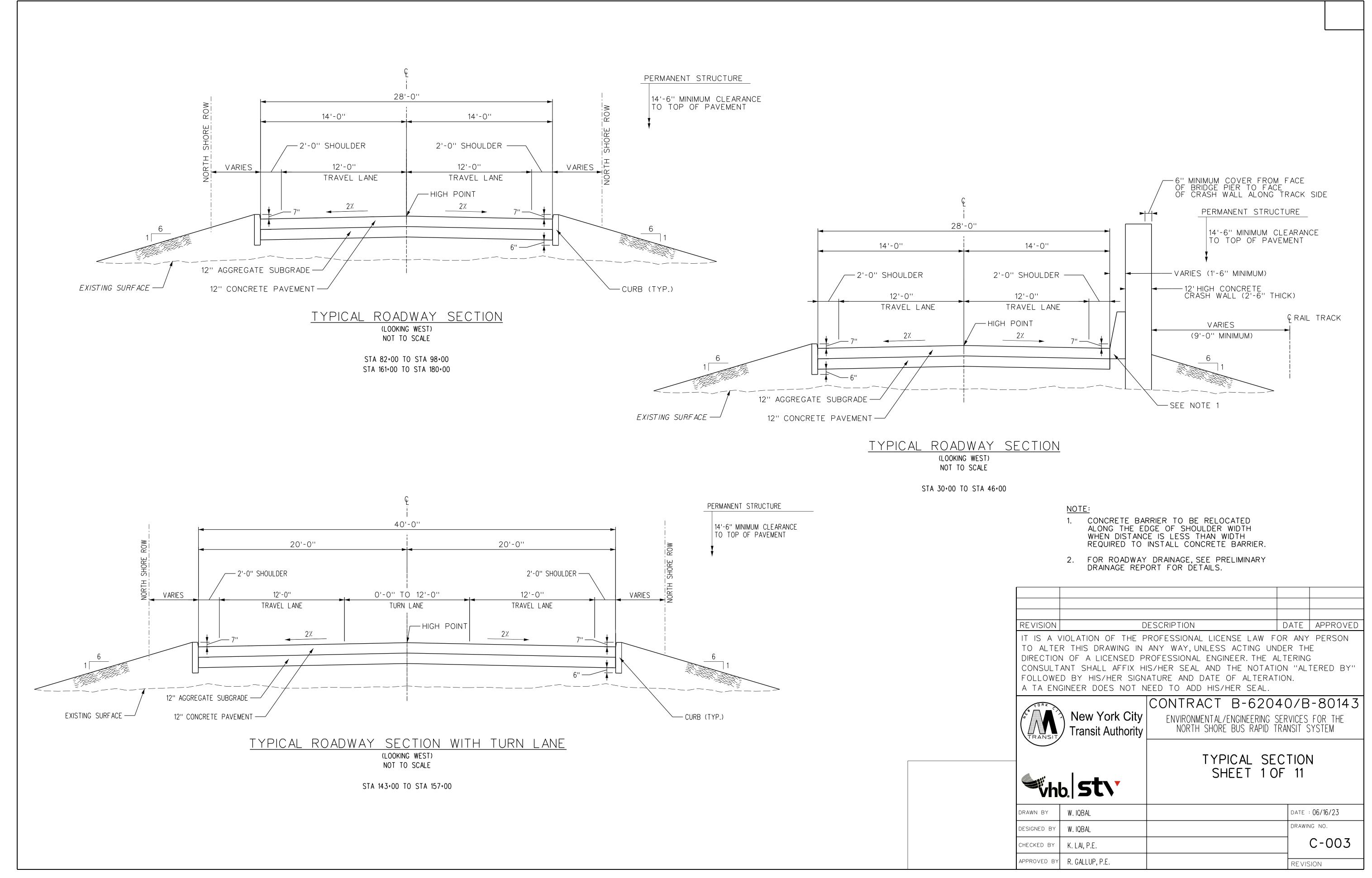
ENVIRONMENTAL/ENGINEERING SERVICES FOR THE NORTH SHORE BUS RAPID TRANSIT SYSTEM

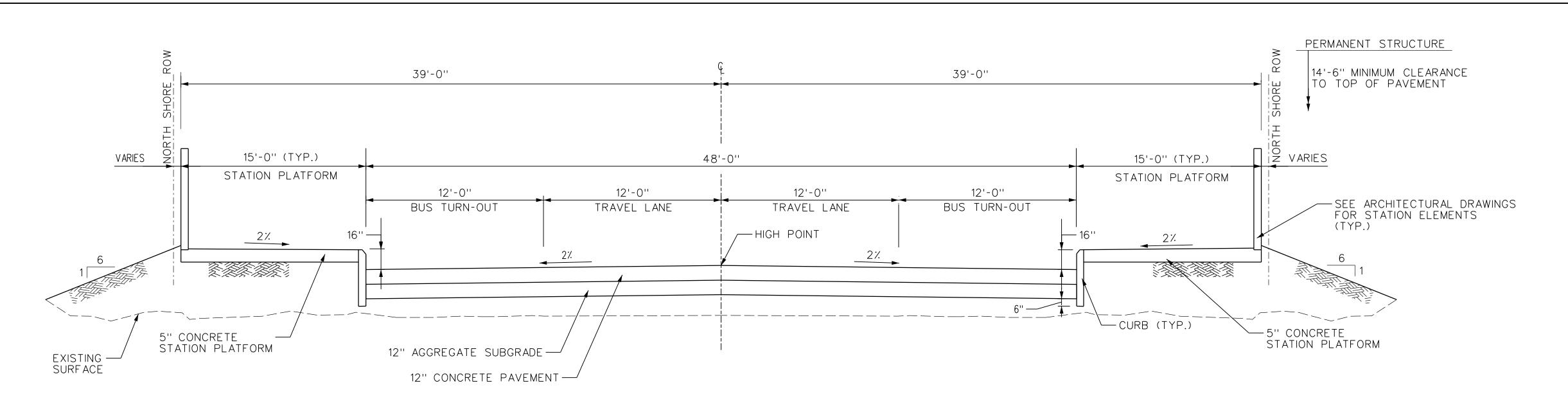


INDEX OF DRAWINGS, LEGEND, ABBREVIATIONS AND GENERAL NOTES

DRAWN BY	B. HUBERT	DATE : 06/16/23
DESIGNED BY	B. HUBERT	DRAWING NO.
CHECKED BY	K. LAI, P.E.	C-001
APPROVED BY	R. GALLUP, P.E.	REVISION

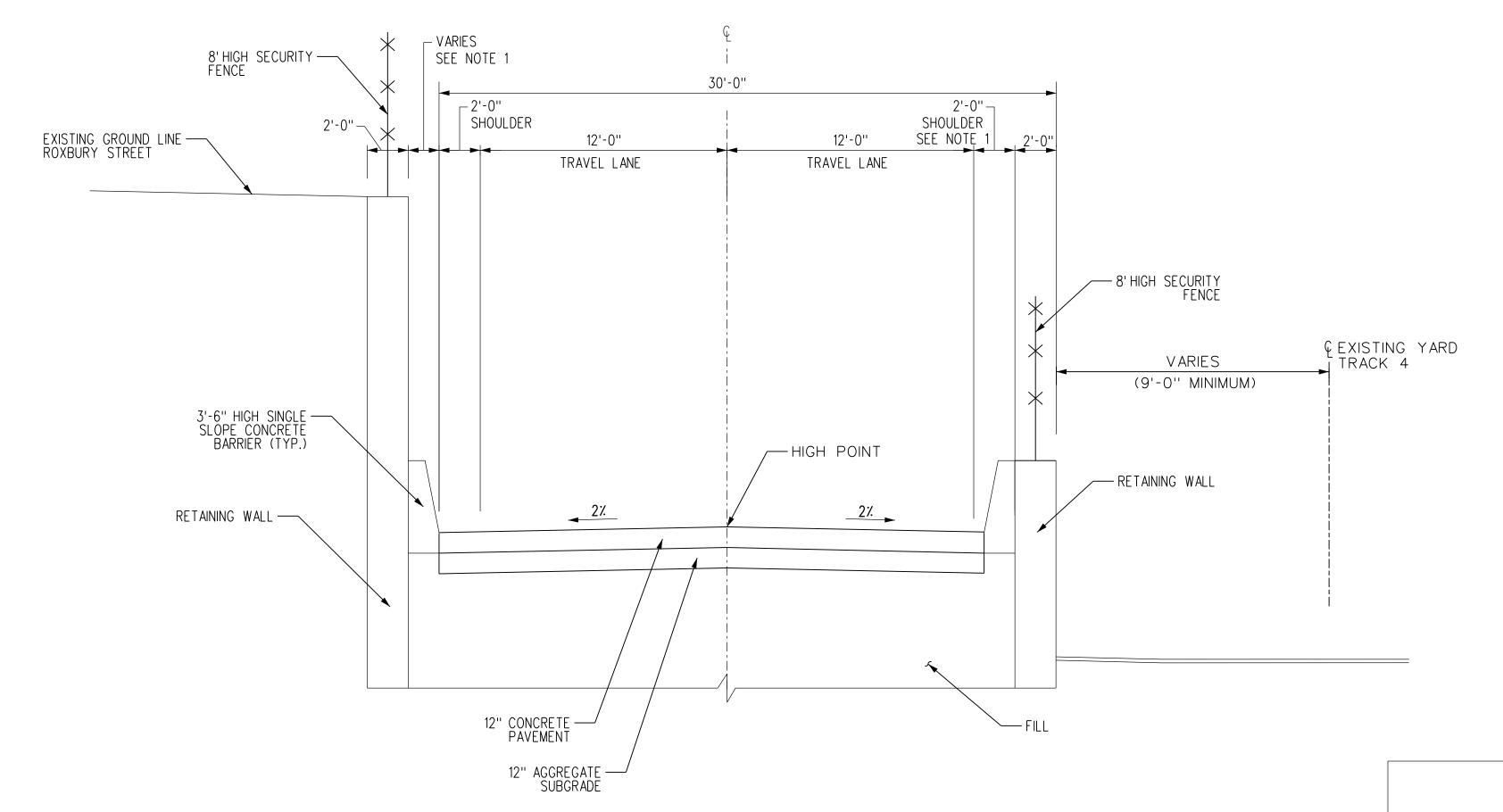






TYPICAL ROADWAY AT SIDE PLATFORM STATION (LOOKING WEST) NOT TO SCALE

STA 159+00 TO STA 160+00 (WEST BRIGHTON STATION) STA 184+00 TO STA 185+00 (LIVINGSTON STATION) STA 213+00 TO STA 214+00 (NEW BRIGHTON STATION)



TYPICAL ROADWAY SECTION EAST OF SOUTH AVENUE (LOOKING WEST) NOT TO SCALE

STA 19+00 TO STA 29+00

NOTE

- CONCRETE BARRIER TO BE RELOCATED ALONG THE EDGE OF SHOULDER WIDTH WHEN DISTANCE IS LESS THAN WIDTH REQUIRED TO INSTALL CONCRETE BARRIER.
- FOR ROADWAY DRAINAGE, SEE PRELIMINARY DRAINAGE REPORT FOR DETAILS.

REVISION DESCRIPTION DATE APPROVED

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CONTRACT B-62040/B-80143

ENVIRONMENTAL/ENGINEERING SERVICES FOR THE NORTH SHORE BUS RAPID TRANSIT SYSTEM

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TYPICAL SECTION SHEET 2 OF 11

DRAWN BY W. IQBAL

DESIGNED BY W. IQBAL

CHECKED BY K. LAI, P.E.

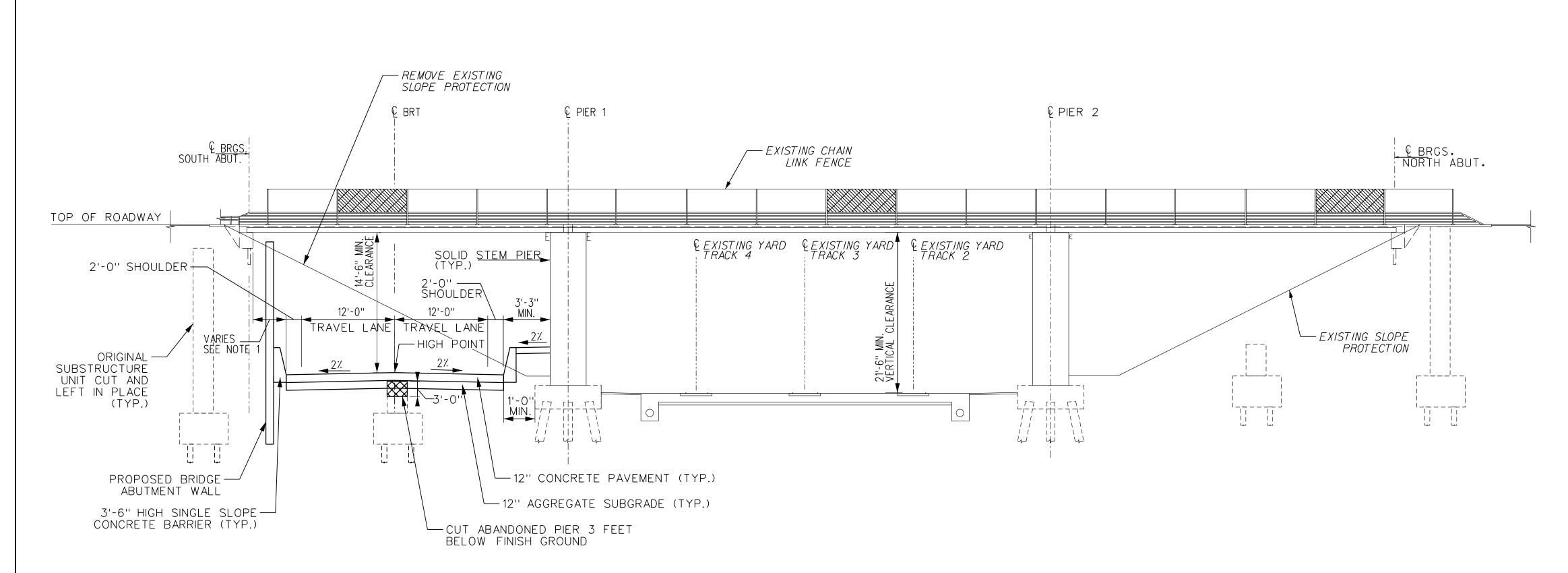
APPROVED BY R. GALLUP, P.E.

DATE: 06/16/23

DRAWING NO.

C - 004

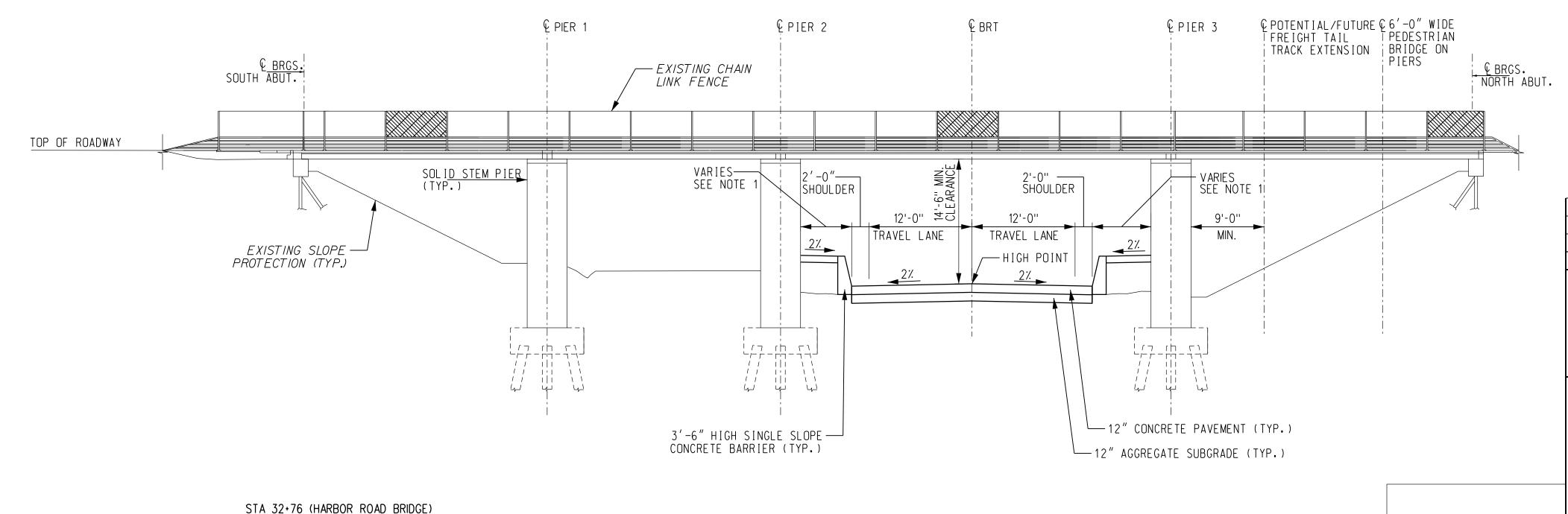
REVISION



TYPICAL ROADWAY THROUGH BRIDGE EMBANKMENT

(LOOKING WEST)
NOT TO SCALE

STA 16+13 (SOUTH AVENUE BRIDGE)



TYPICAL ROADWAY THROUGH BRIDGE SPAN

(LOOKING WEST)

NOT TO SCALE

NOTE:

- 1. CONCRETE BARRIER TO BE RELOCATED ALONG THE EDGE OF SHOULDER WHEN DISTANCE IS LESS THAN WIDTH REQUIRED TO INSTALL CONCRETE BARRIER.
- 2. FOR ROADWAY DRAINAGE, SEE PRELIMINARY DRAINAGE REPORT FOR DETAILS.

REVISION DESCRIPTION DATE APPROVED

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New York City
Transit Authority

CONTRACT B-62040/B-80143

ENVIRONMENTAL/ENGINEERING SERVICES FOR THE

ENVIRONMENTAL/ENGINEERING SERVICES FOR THE NORTH SHORE BUS RAPID TRANSIT SYSTEM

Thb. St\

TYPICAL SECTION SHEET 3 OF 11

DRAWN BY W. IQBAL

DESIGNED BY W. IQBAL

CHECKED BY K. LAI, P.E.

APPROVED BY R. GALLUP, P.E.

DATE: 06/16/23

DRAWING NO.

C - 005

STA 38+85 (UNION AVENUE BRIDGE)

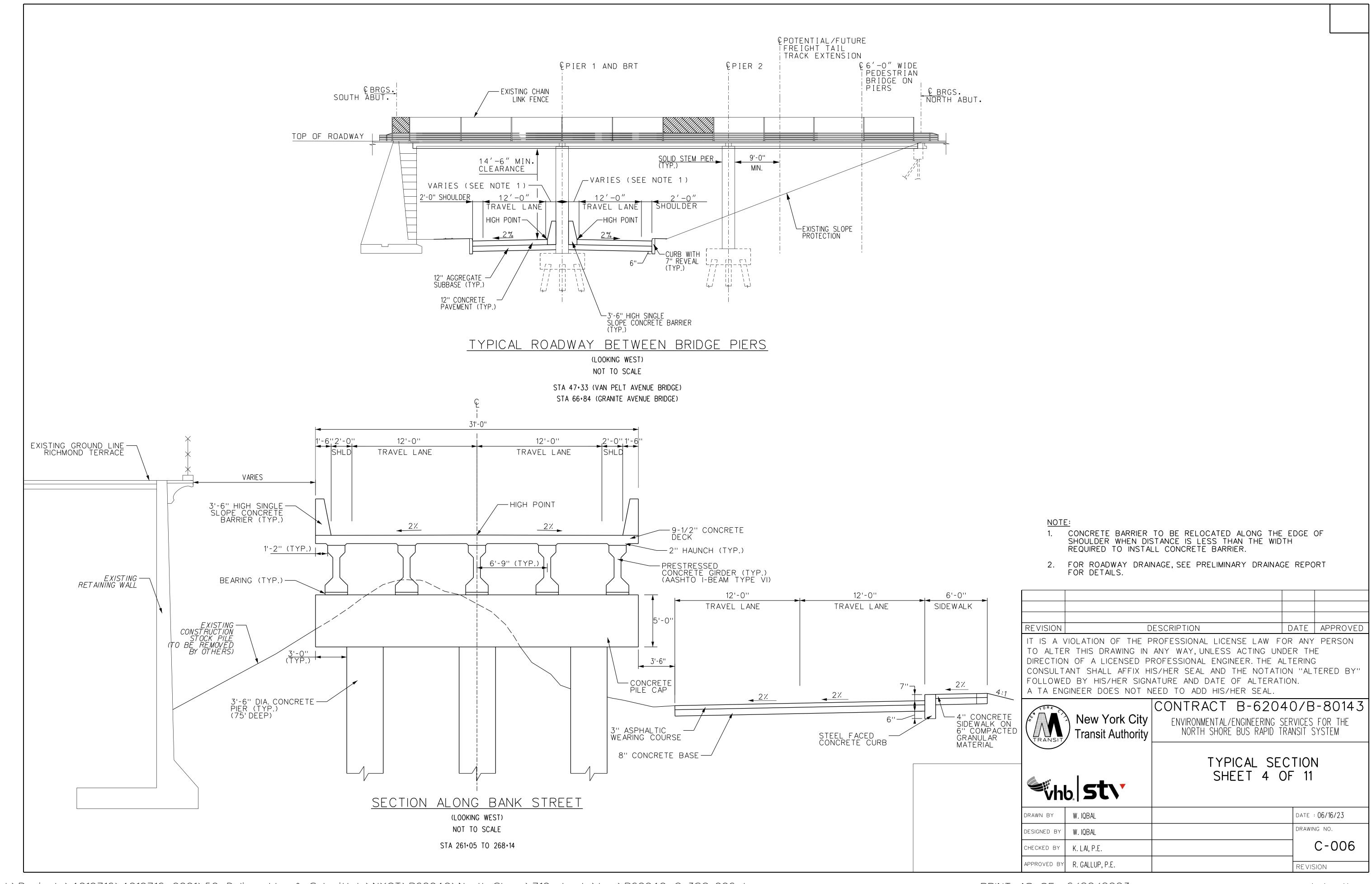
STA 41+77 (DEHART AVENUE BRIDGE)
STA 52+25 (VAN NAME AVENUE BRIDGE)

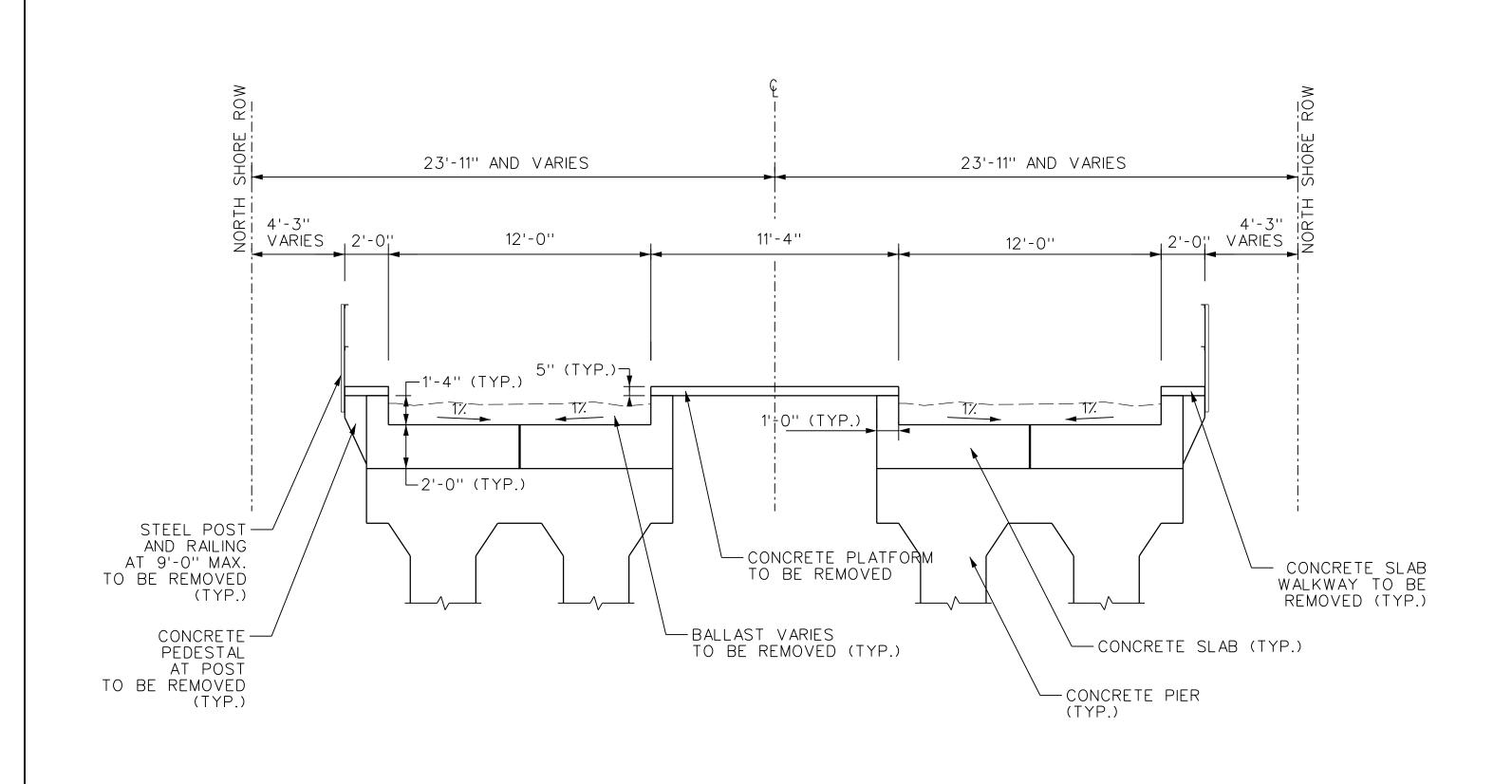
STA 56+10 (SIMONSON AVENUE BRIDGE)

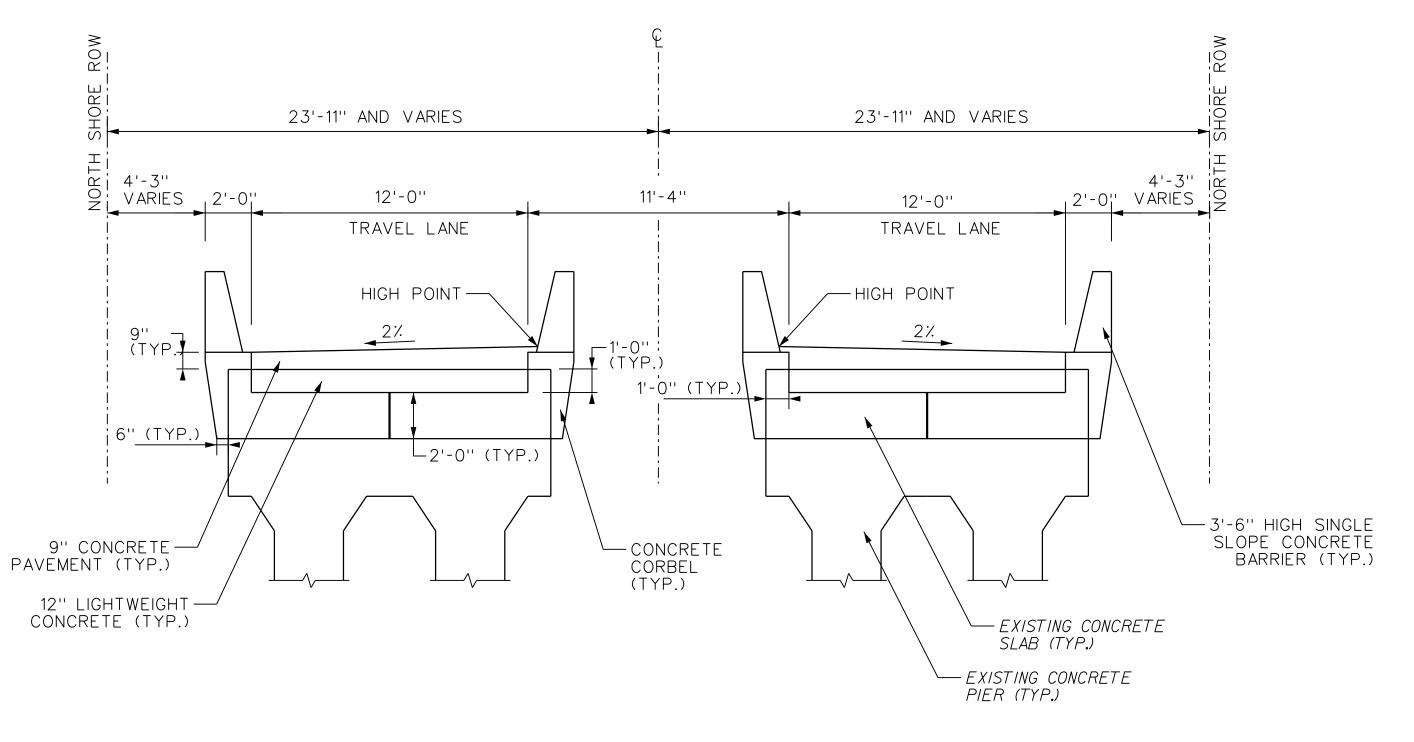
STA 74+08 (MORNINGSTAR ROAD BRIDGE)

STA 58+94 (LAKE AVENUE BRIDGE)

STA 80+25 (JOHN STREET BRIDGE)

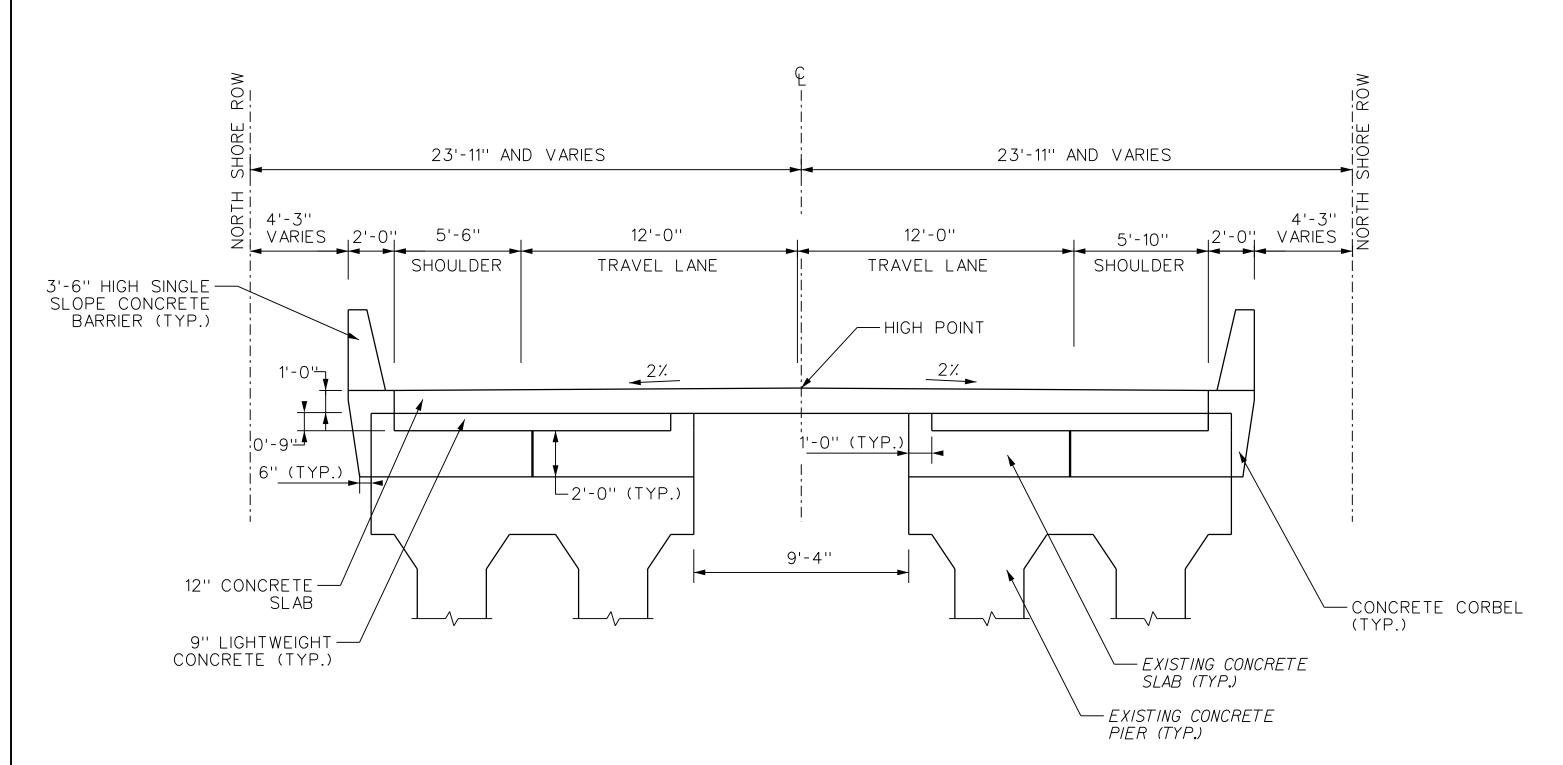






EXISTING SECTION ON VIADUCT

(LOOKING WEST) NOT TO SCALE



TYPICAL ROADWAY SECTION ON VIADUCT

(LOOKING WEST) NOT TO SCALE

STA 97+75 TO STA 136+55

FOR TYPICAL ROADWAY SECTION WITH MEDIAN, SEE TYPICAL ROADWAY SECTION WITH MEDIAN ON DRAWING C-007 FOR TYPICAL ROADWAY SECTION OVER CONCRETE ENCASED THROUGH-BEAM BRIDGE ON VIADUCT, SEE DRAWING C-009 FOR TYPICAL ROADWAY SECTION OVER STEEL GIRDER BRIDGE ON VIADUCT, SEE DRAWING C-010 FOR PORT RICHMOND STATION SECTION, SEE DRAWING A-001

NOT TO SCALE STA 106+75 TO STA 109+00

TYPICAL ROADWAY SECTION WITH MEDIAN ON VIADUCT

(LOOKING WEST)

STA 121+58 TO STA 122+32

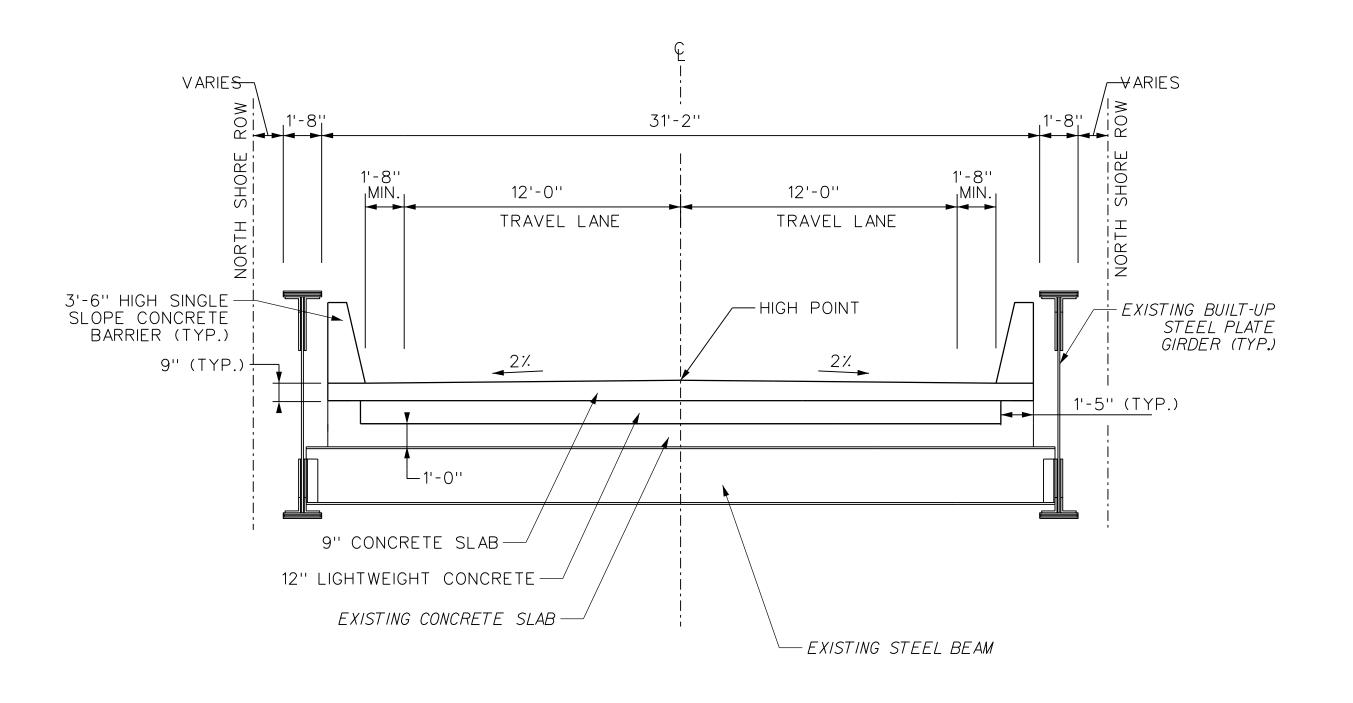
NOTE:

1. FOR ROADWAY DRAINAGE, SEE PRELIMINARY DRAINAGE REPORT FOR DETAILS.

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REVISION		ESCRIPTION	DATE	APPROVED			
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TRANSIT	New York City Transit Authority CONTRACT B-62040/B-80143 ENVIRONMENTAL/ENGINEERING SERVICES FOR THE NORTH SHORE BUS RAPID TRANSIT SYSTEM						
Vh	TYPICAL SECTION SHEET 5 OF 11						
DRAWN BY	B. HUBERT		DATE	: 06/16/23			
DESIGNED BY	B. HUBERT		DRAWIN	NG NO.			
CHECKED BY	K. LAI, P.E.			C-007			

APPROVED BY R. GALLUP, P.E.

REVISION



TYPICAL ROADWAY SECTION OVER NICHOLAS AVENUE BRIDGE WEST OF VIADUCT (LOOKING WEST) NOT TO SCALE

STA 94+12

NOTE:

 FOR ROADWAY DRAINAGE, SEE PRELIMINARY DRAINAGE REPORT FOR DETAILS.

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IT IS A VIOLATION OF THE PROFESSIONAL LICENSE LAW FOR ANY PERSON TO ALTER THIS DRAWING IN ANY WAY, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER. THE ALTERING CONSULTANT SHALL AFFIX HIS/HER SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS/HER SIGNATURE AND DATE OF ALTERATION.

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New York City Transit Authority

CONTRACT B-62040/B-80143

ENVIRONMENTAL/ENGINEERING SERVICES FOR THE NORTH SHORE BUS RAPID TRANSIT SYSTEM

TYPICAL SECTION SHEET 6 OF 11

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DRAWN BY

B. HUBERT

DESIGNED BY

B. HUBERT

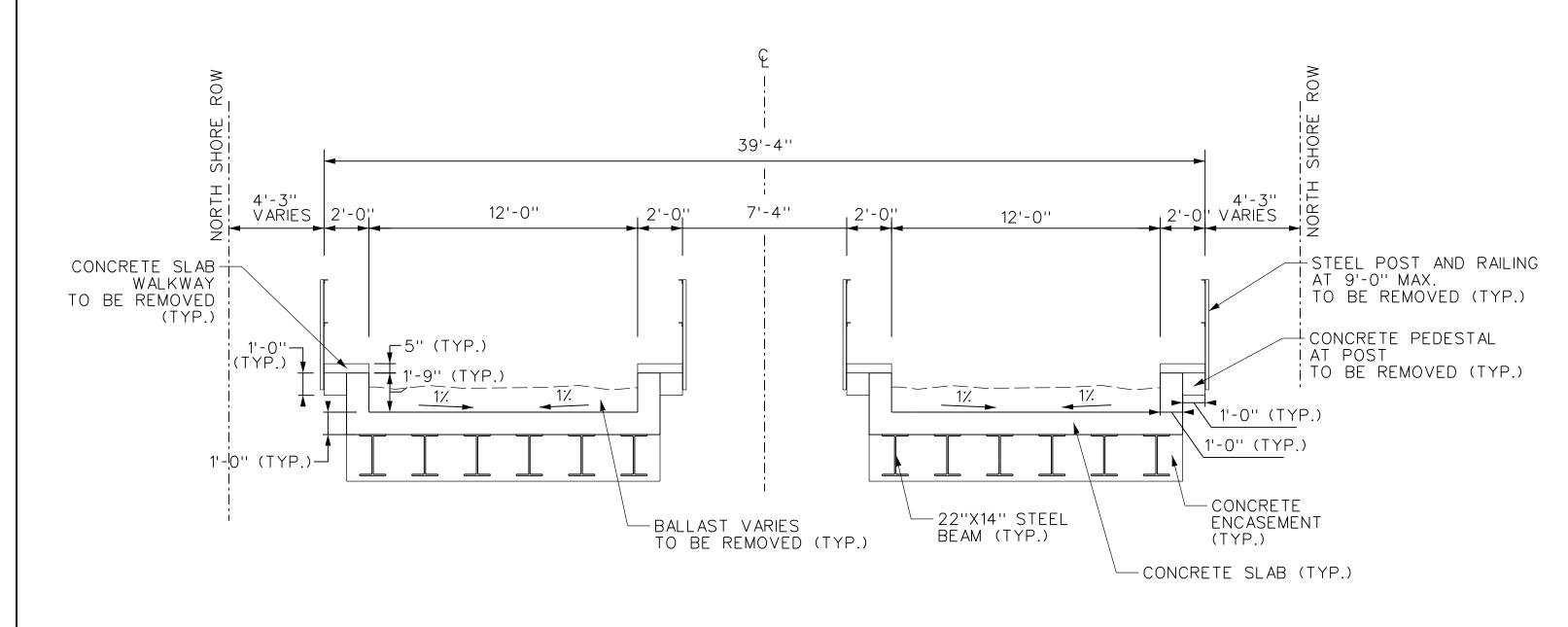
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K. LAI, P.E.

APPROVED BY

R. GALLUP, P.E.

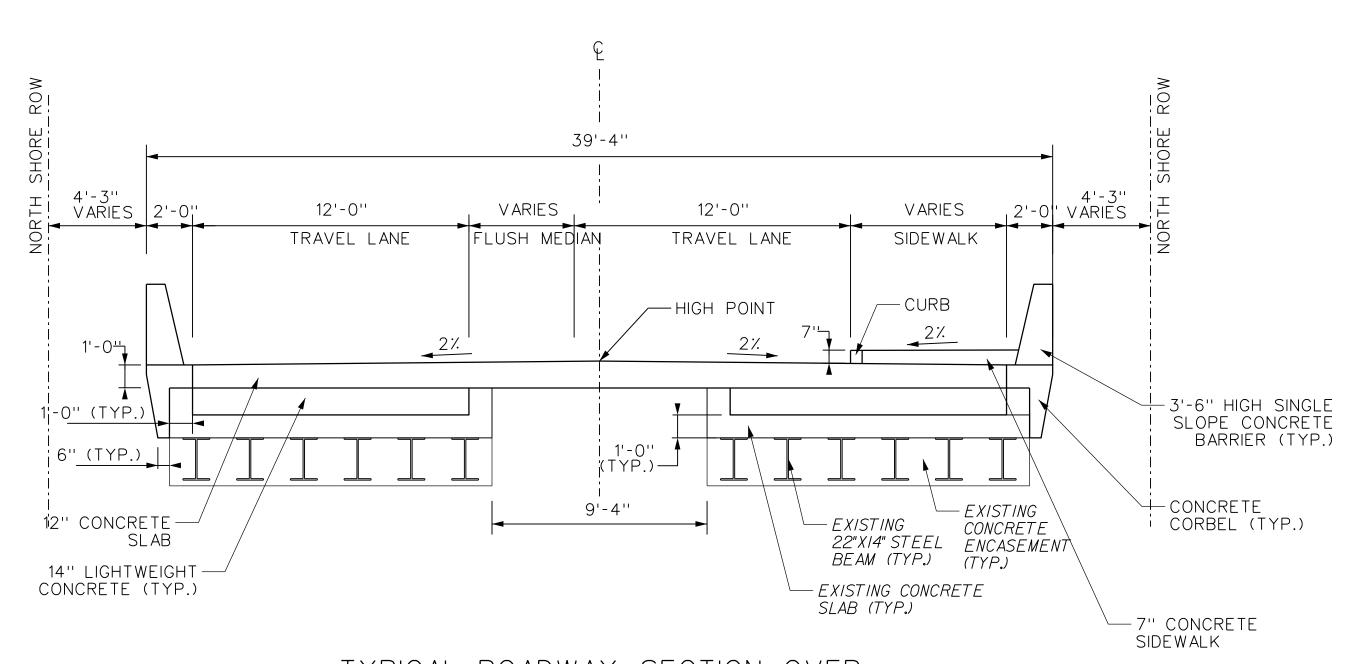
REVISION



39'-4'' 4'-3'' 2'-0' VARIES VARIES 2'-0" 12'-0'' 12'-0'' TRAVEL LANE TRAVEL LANE HIGH POINT --HIGH POINT 1'-0'' (TYP.)_ 2% 3'-2''-(TYP.) -1'-0" (TYP.) 6" (TYP.) EXISTING EXISTING CONCRETE 22"XI4" STEEL ENCASEMENT BEAM (TYP.) (TYP.) 12" CONCRETE — PAVEMENT (TYP.) -3'-6" HIGH SINGLE SLOPE CONCRETE BARRIER (TYP.) - CONCRETE CORBEL (TYP.) 14" LIGHTWIGHT CONCRETE (TYP.) - EXISTING CONCRETE SLAB (TYP.)

EXISTING CONCRETE ENCASED THROUGH-BEAM BRIDGE SECTION ON VIADUCT

(LOOKING WEST)
NOT TO SCALE



TYPICAL ROADWAY SECTION OVER CONCRETE ENCASED THROUGH-BEAM BRIDGE ON VIADUCT

(LOOKING WEST)
NOT TO SCALE

STA 99+40 (OVER TREADWELL AVENUE) STA 102+03 (OVER SHARPE AVENUE) STA 109+29 (OVER MAPLE AVENUE)

TYPICAL ROADWAY SECTION OVER CONCRETE ENCASED THROUGH-BEAM BRIDGE ON VIADUCT

(LOOKING WEST)

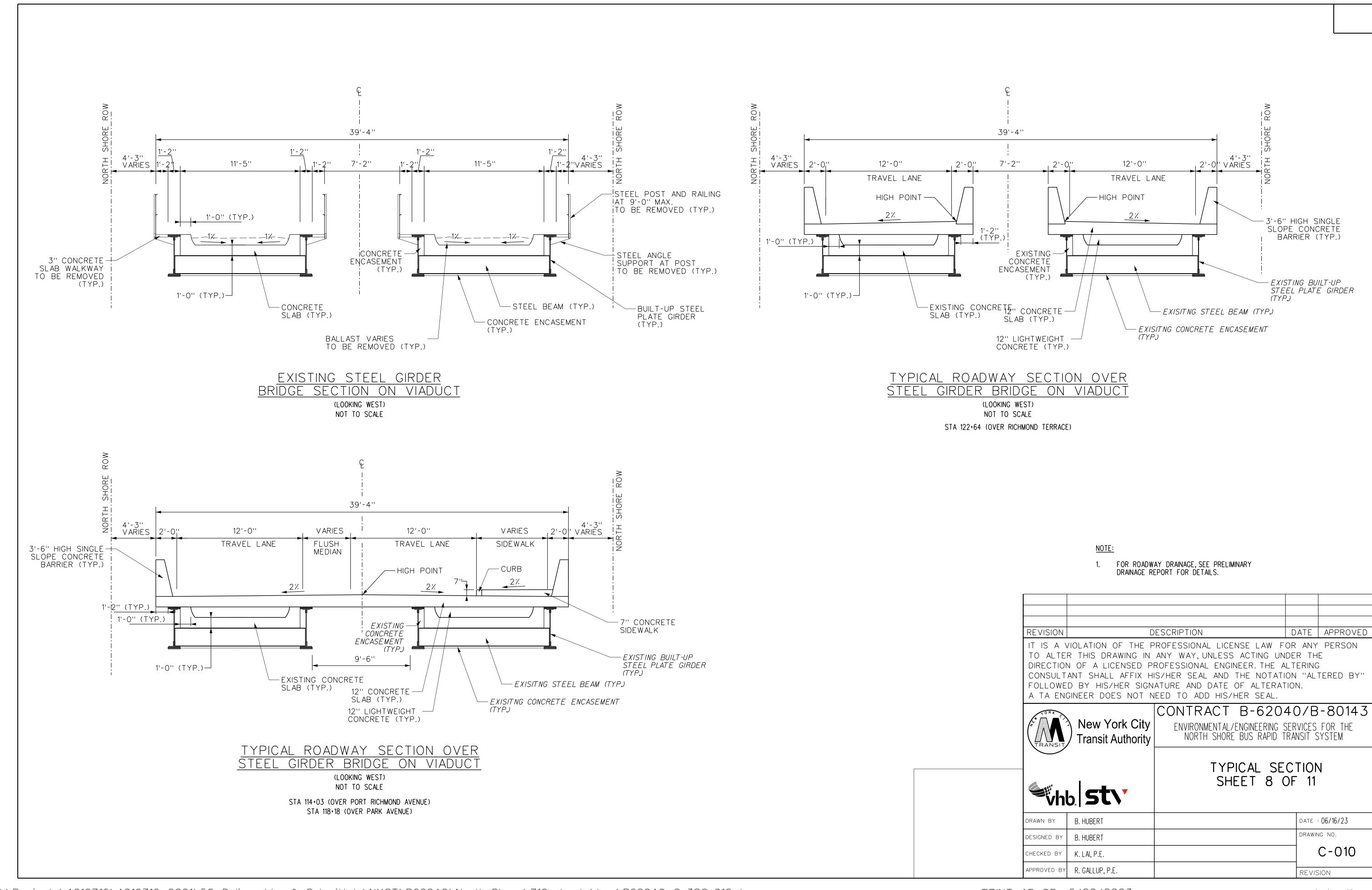
NOT TO SCALE

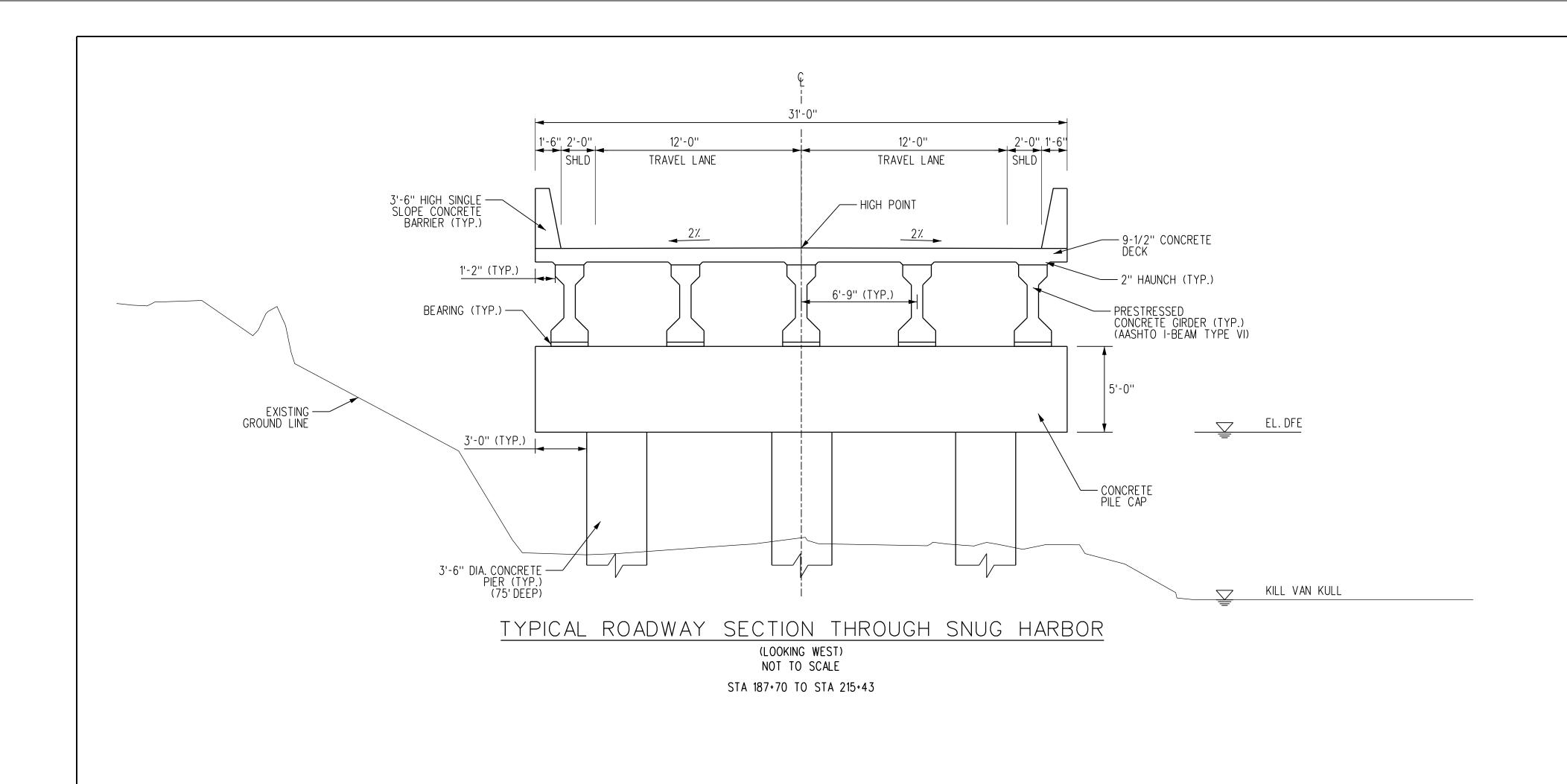
STA 106+43 (OVER FABER STREET)

NOTE:

 FOR ROADWAY DRAINAGE, SEE PRELIMINARY DRAINAGE REPORT FOR DETAILS.

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RAWN BY	B. HUBERT		DATE :	06/16/23
ESIGNED BY	B. HUBERT		DRAWIN	IG NO.
CHECKED BY	K. LAI, P.E.			C-009
APPROVED BY	R. GALLUP, P.E.		REVIS	SION





NOTE:

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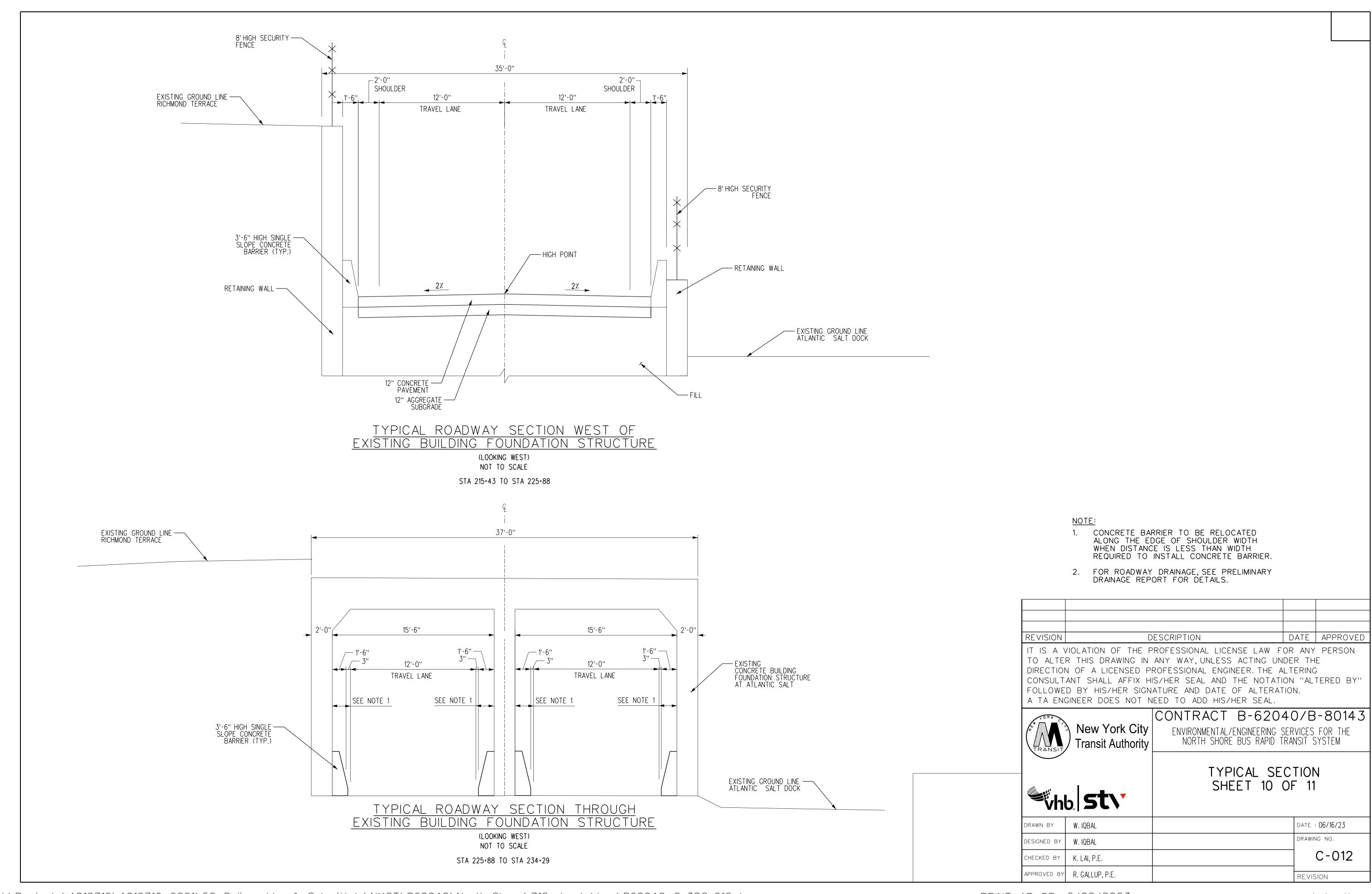
New York City

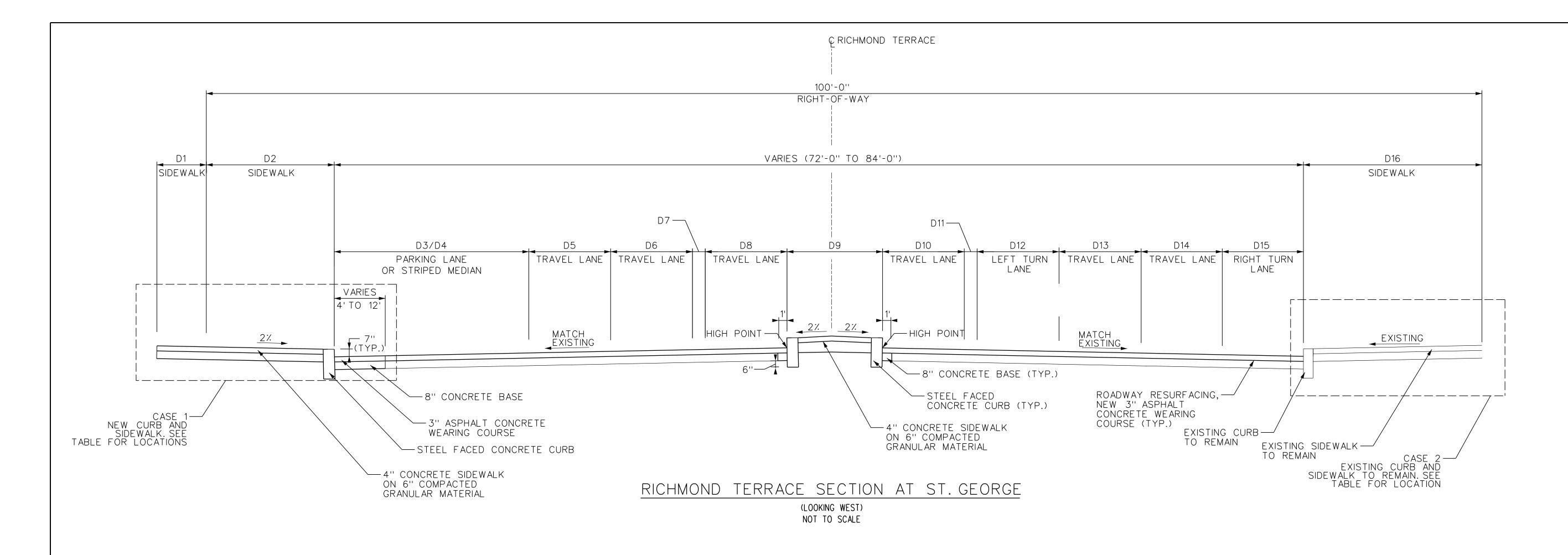
CONTRACT B-62040/B-80143

ENVIRONMENTAL/ENGINEERING SERVICES FOR THE NORTH SHORE BUS RAPID TRANSIT SYSTEM

TYPICAL SECTION SHEET 9 OF 11

DRAWN BY	W. IQBAL	DATE : 06/16/23
DESIGNED BY	W. IQBAL	DRAWING NO.
CHECKED BY	K. LAI, P.E.	C-011
APPROVED BY	R. GALLUP, P.E.	REVISION





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	D16														D2	D1			
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		D15	D14	D13	D12	D11	D10	D9	D8	D7	D6	D5	D4	D3					
				OUND	NORTHB						HBOUND	SOUTH							
	ROW TO		TRAVEL	TRAVEL	LEFT	STRIPED	BRT TRAVEL	MEDIAN	BRT	STRIPED	TRAVEL	TRAVEL	STRIPED		ROW TO	BACK OF ROW TO			
CASE LOCATIONS	CURB	L ANE WIDTH	LANE	LANE	LANE	AREA WIDTH	LANE	WIDTH	LANE	AREA WIDTH	L ANE WIDTH	LANE WIDTH	SHOULDER WIDTH	LANE WIDTH	CURB	ROW WIDTH	TO STATION	FROM STATION	I OCATION
CASE 2-BOTH SIDES STRIPED MEDIAN ONLY	14	-	11	11	-	1	11	4	11	1	11	11	-	-	14	-	276+41	269+53	NICHOLAS STREET TO STUYVESANT PLACE
CASE 1-SOUTH SIDE ONLY CASE 2-NORTH SIDE ONLY	1 1/1	-	11	10	10	1	11	-	11	1	10	11	-	-	10	-	280+19	276+41	STUYVESANT PLACE TO HAMILTON AVENUE
CASE 1-SOUTH SIDE ONLY CASE 2-NORTH SIDE ONLY	1/1/1	-	11	11	-	-	11	-	11	-	11	11	-	18	2	3	284+74	280+19	HAMILTON AVENUE TO WALL STREET
CASE 1-NORTH SIDE ONLY CASE 2-SOUTH SIDE ONLY		10	11	10	-	1	11	-	11	1	10	11	2	-	14	-	288+75	284+74	WALL STREET TO SCHUYLER STREET
CASE 2-BOTH SIDES	14	-	12	10	-	1	11	4	11	1	10	12	-	-	14	-	295+50	288+75	SCHUYLER STREET TO BAY STREET

NOTE:

FOR ROADWAY DRAINAGE, SEE PRELIMINARY DRAINAGE REPORT FOR DETAILS.

DESCRIPTION DATE APPROVED REVISION IT IS A VIOLATION OF THE PROFESSIONAL LICENSE LAW FOR ANY PERSON

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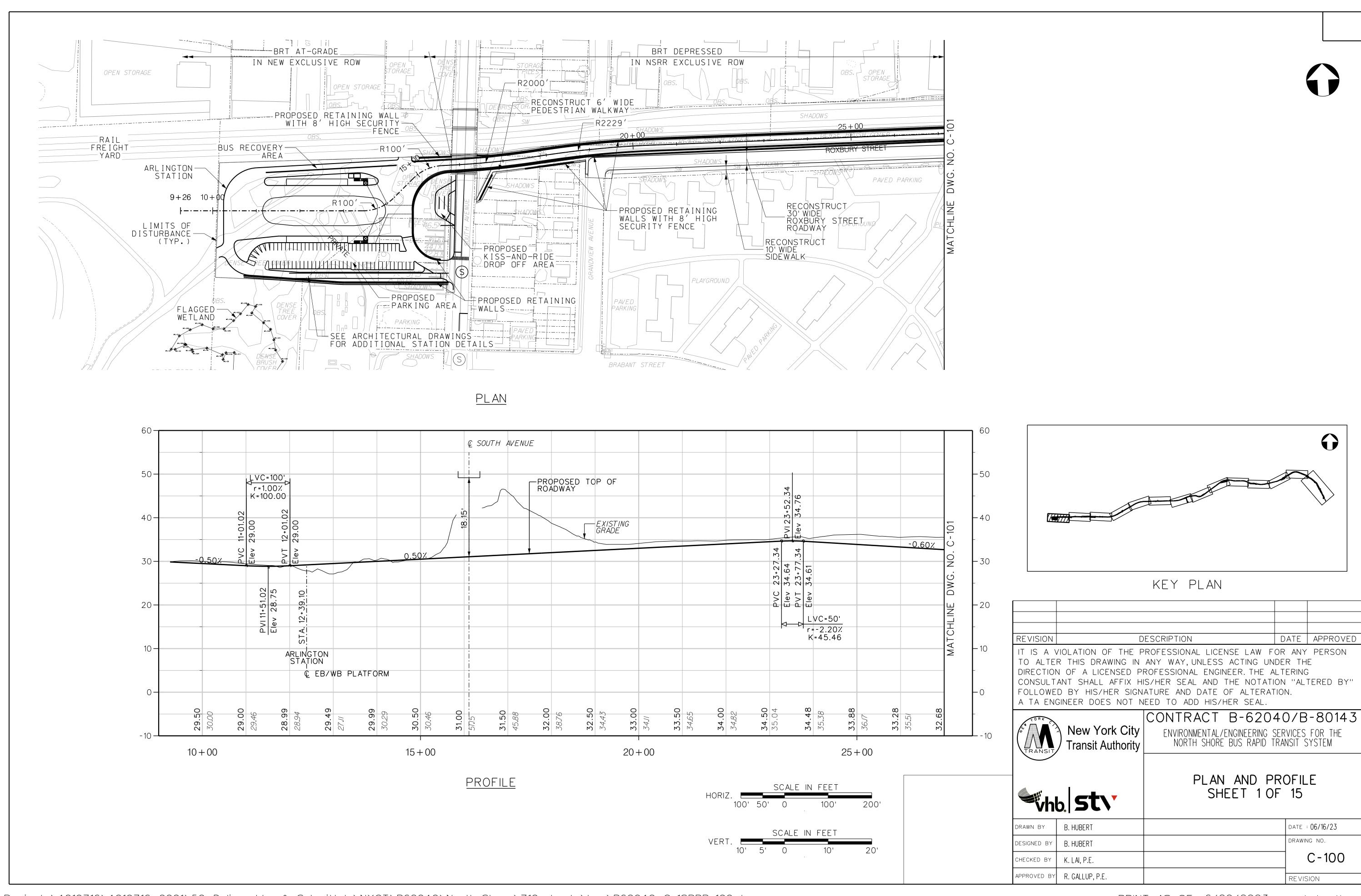


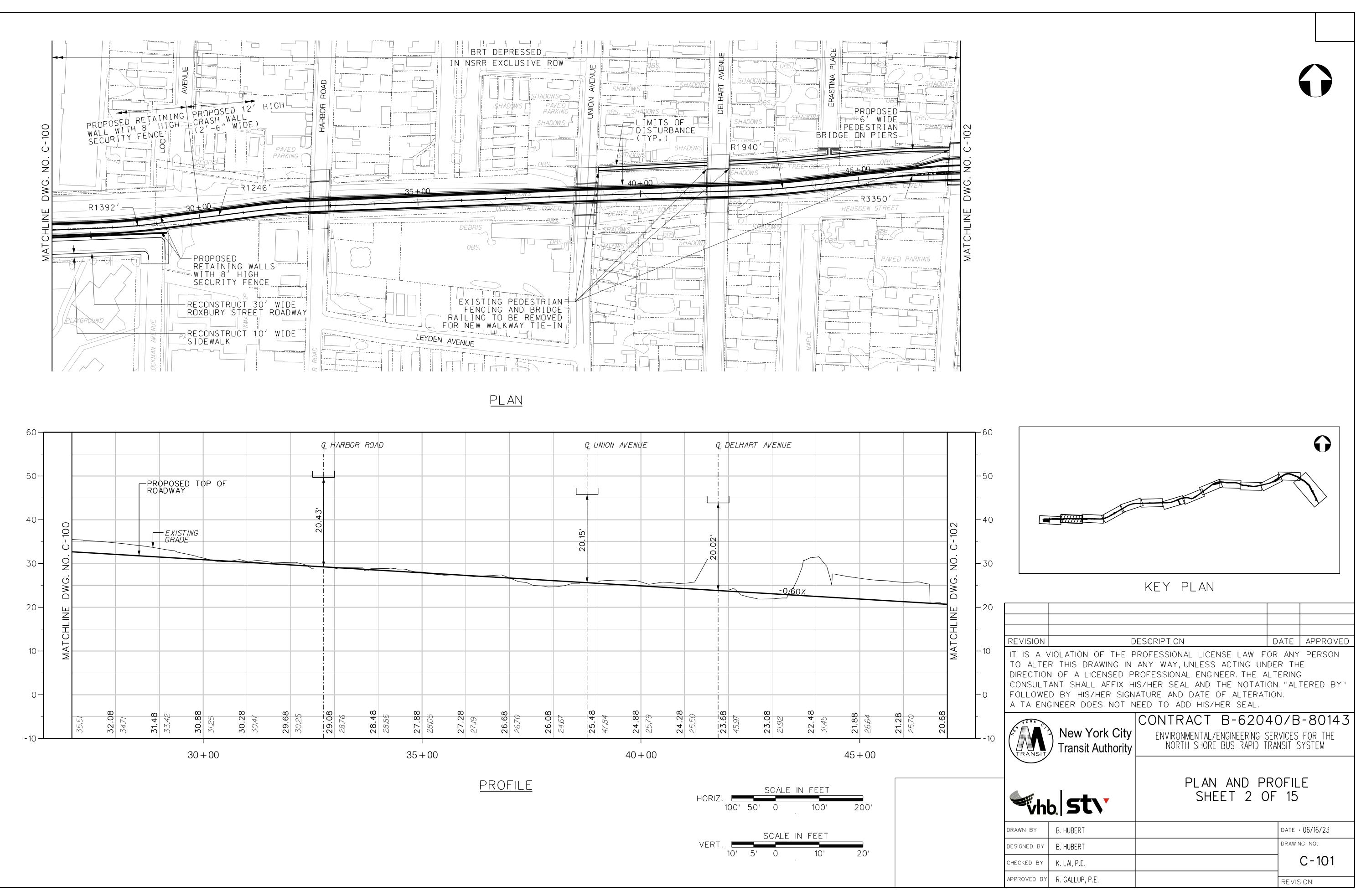
New York City **Transit Authority**

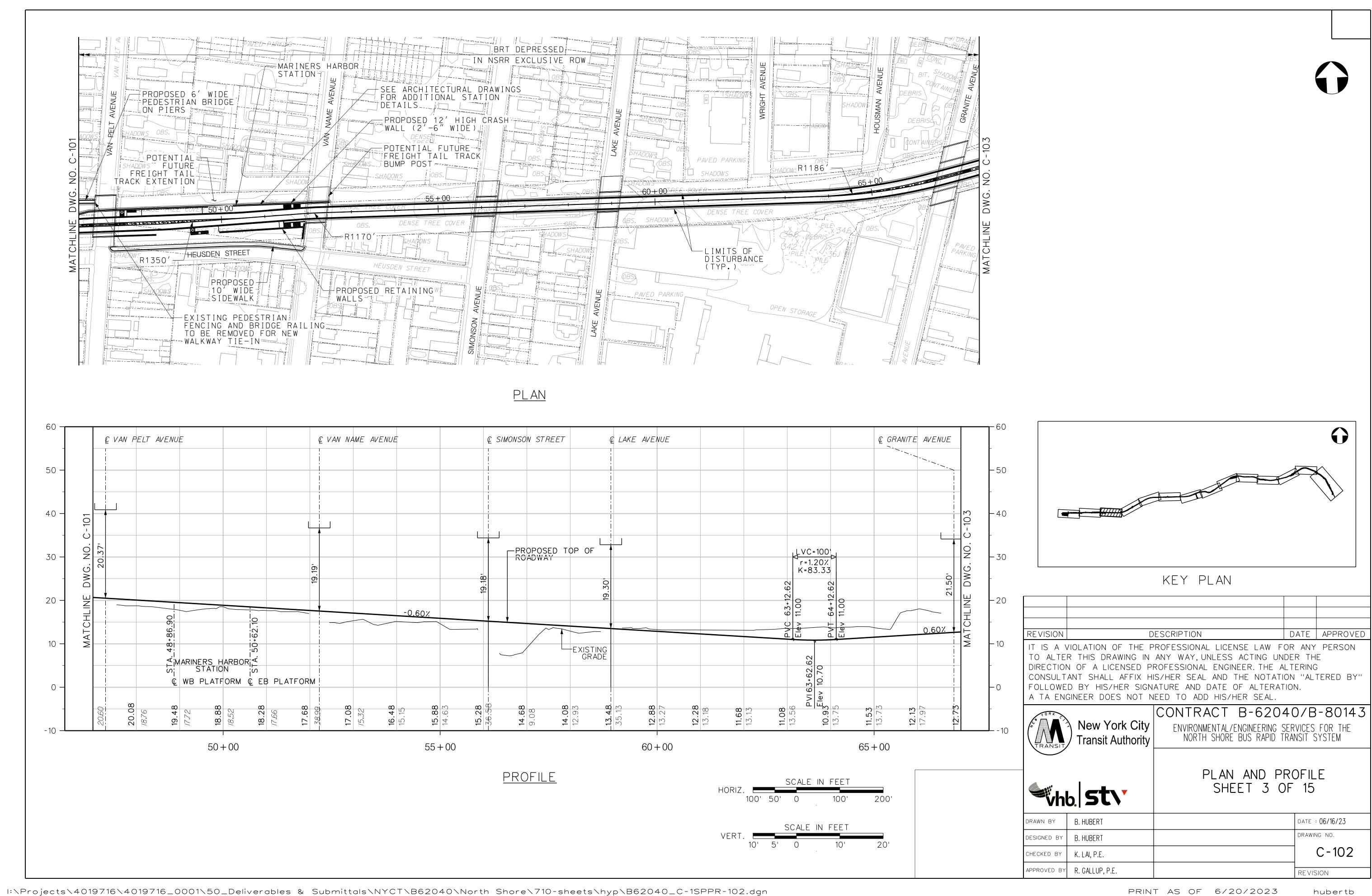
CONTRACT B-62040/B-80143 ENVIRONMENTAL/ENGINEERING SERVICES FOR THE NORTH SHORE BUS RAPID TRANSIT SYSTEM

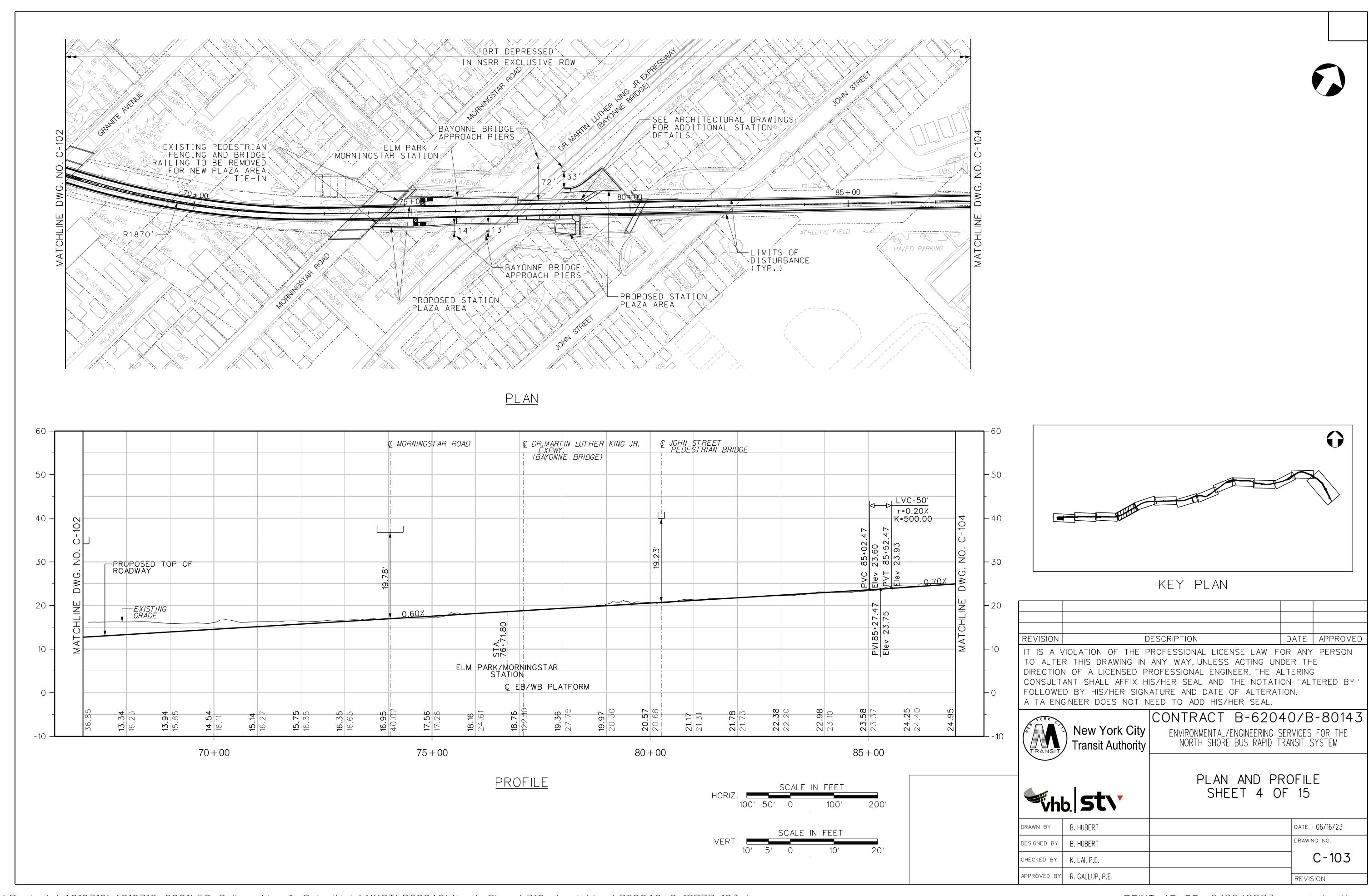
> TYPICAL SECTION SHEET 11 OF 11

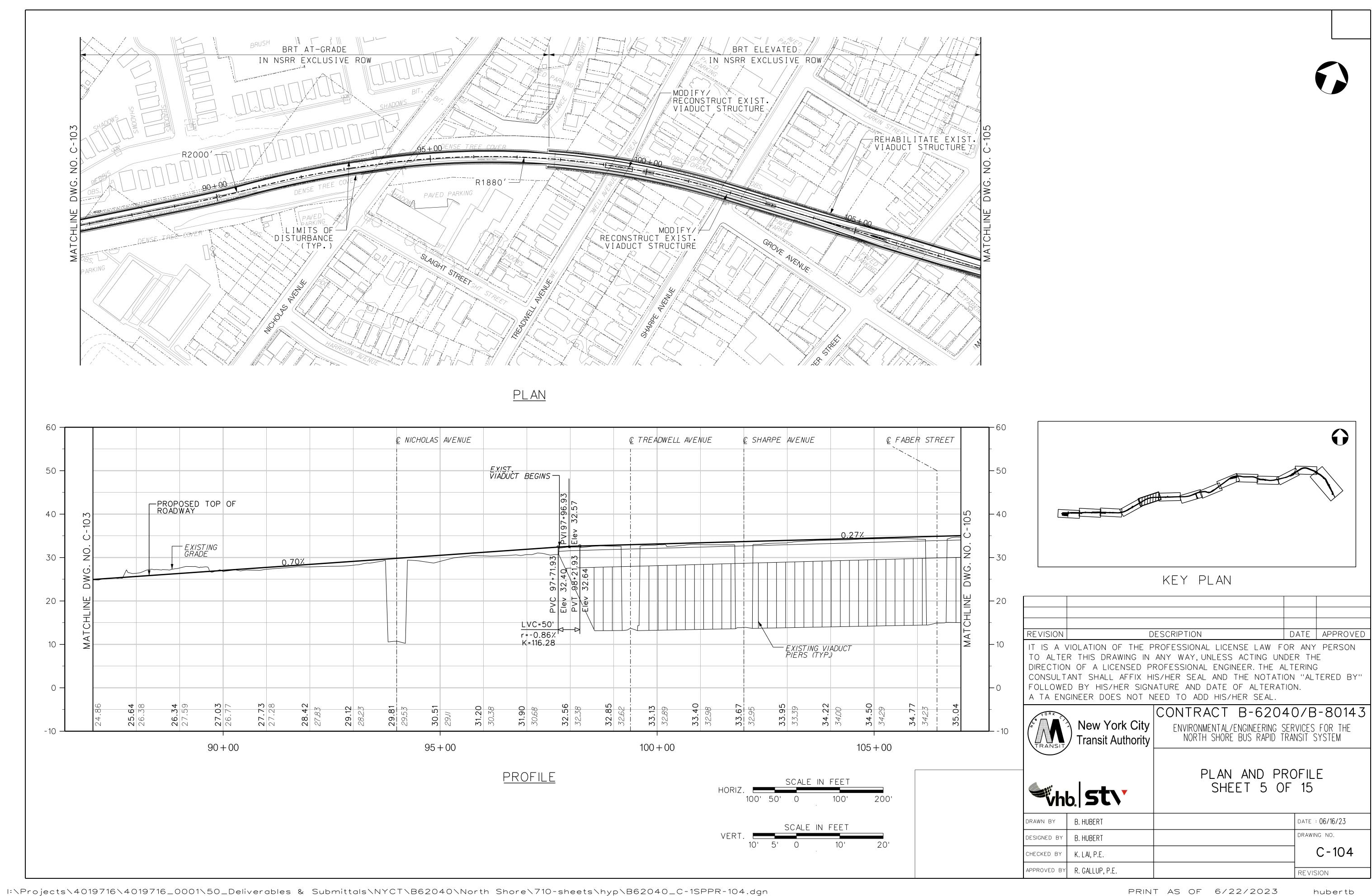
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DRAWN BY	W. IQBAL	DATE : 06/16/23
DESIGNED BY	W. IQBAL	DRAWING NO.
CHECKED BY	K. LAI, P.E.	C-013
APPROVED BY	R. GALLUP, P.E.	REVISION

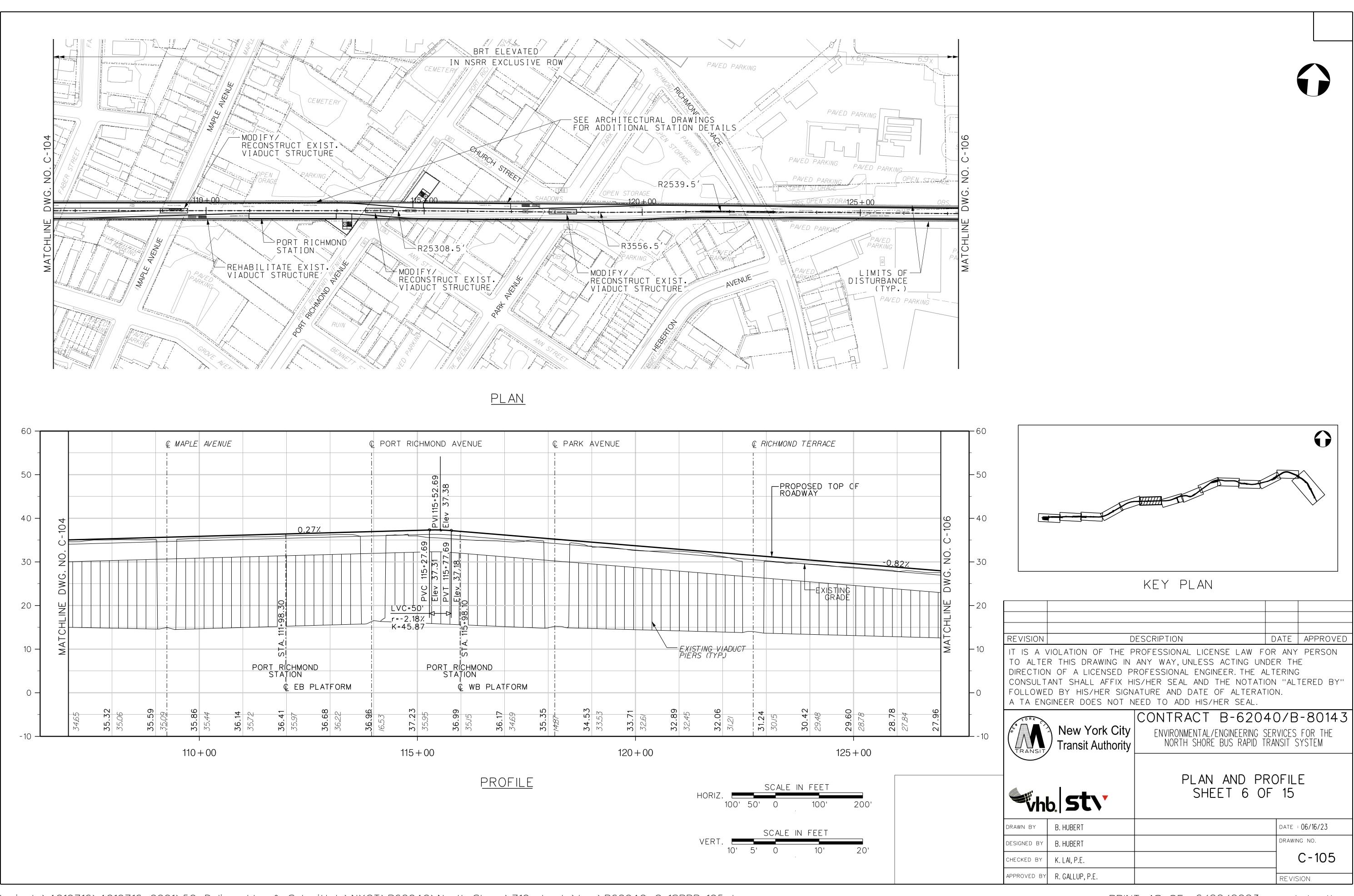


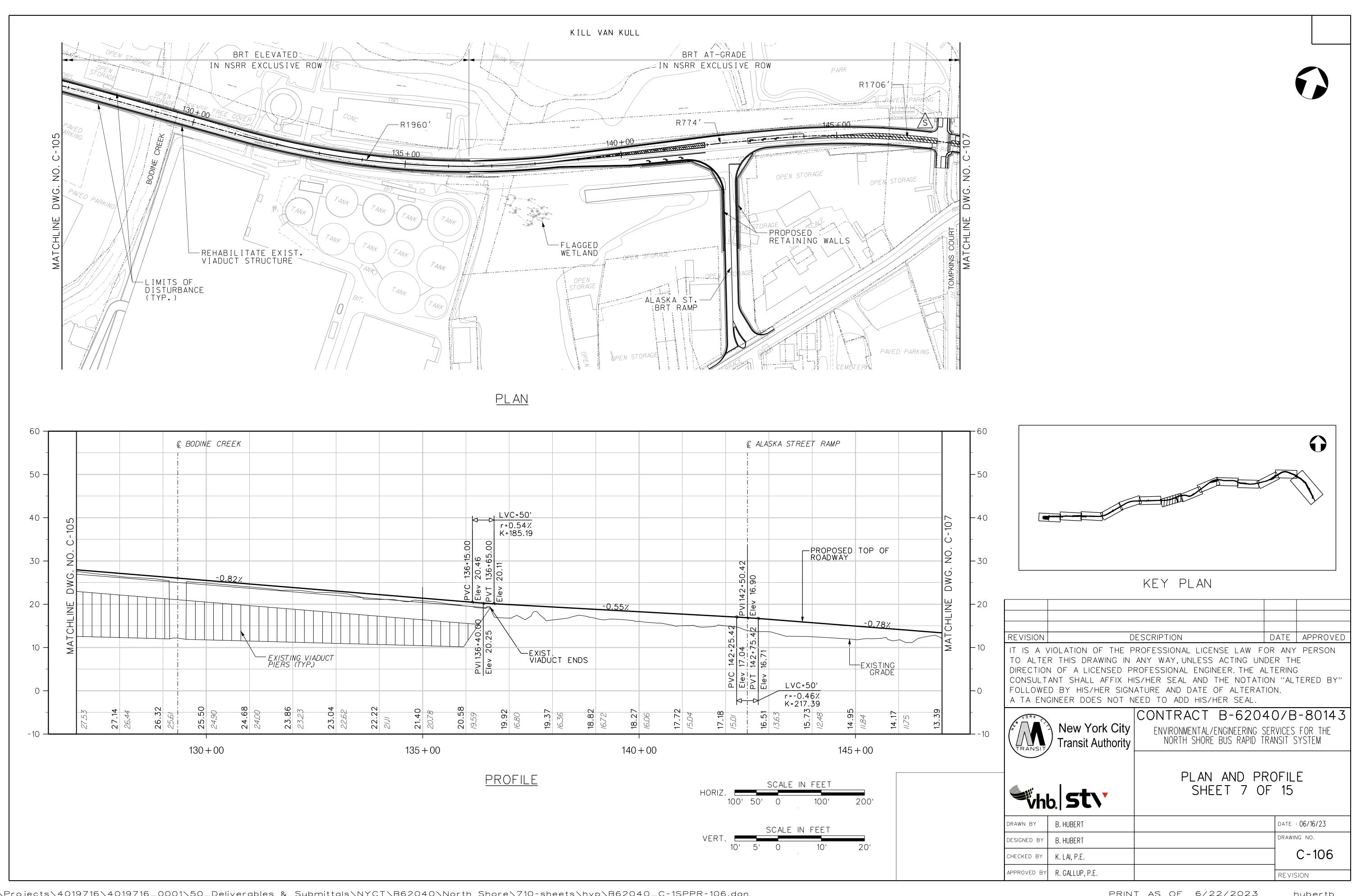


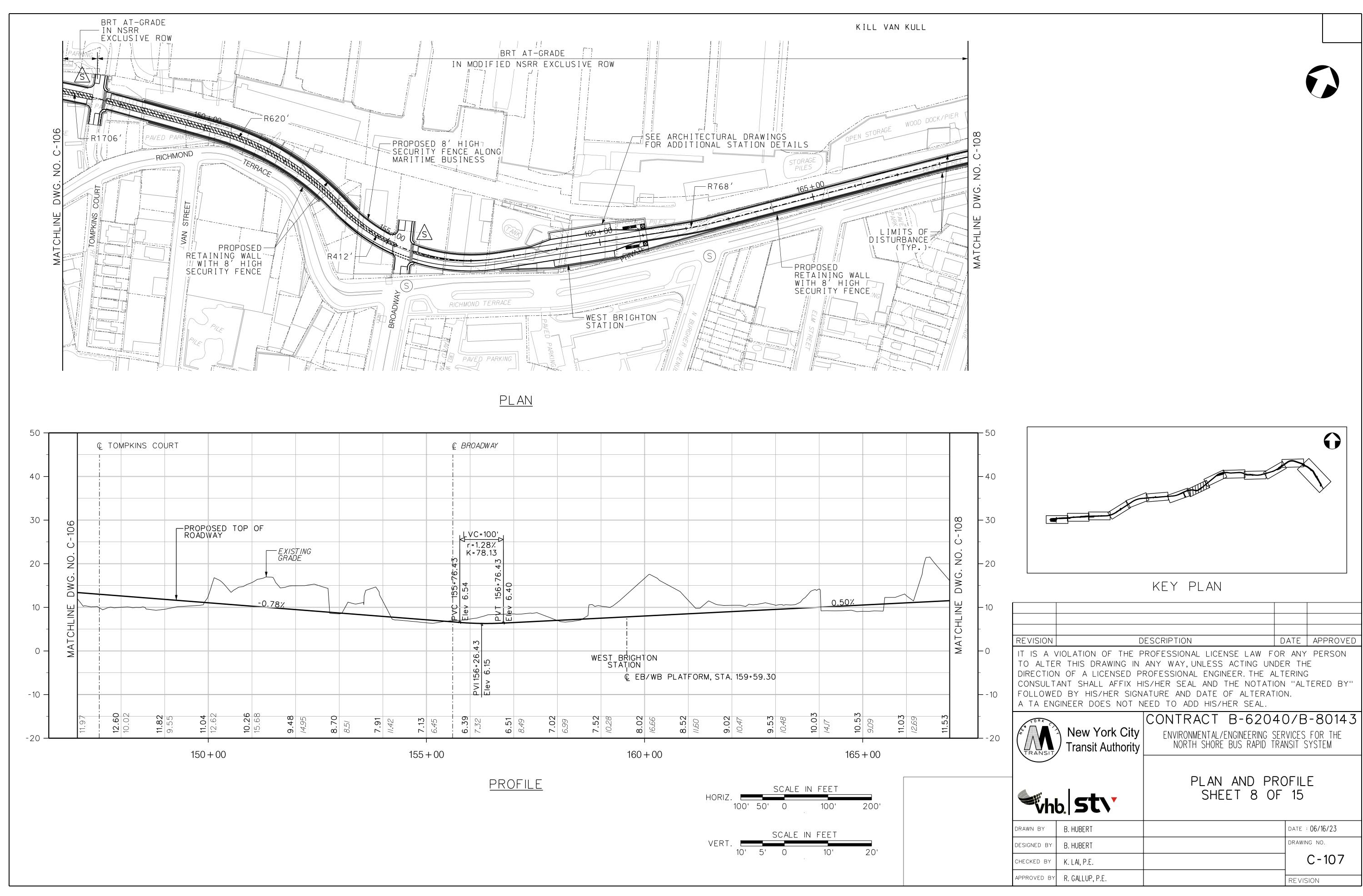


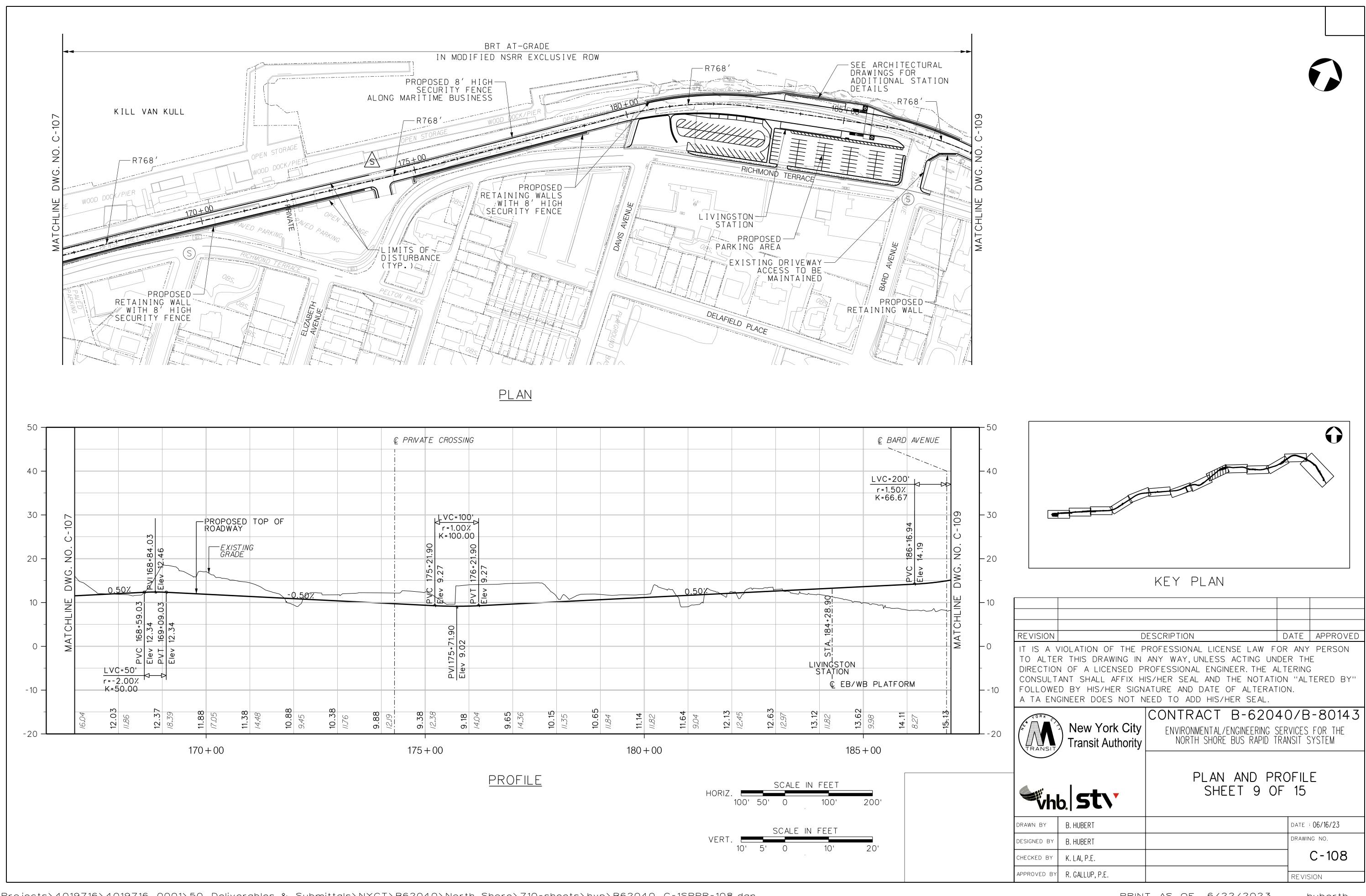


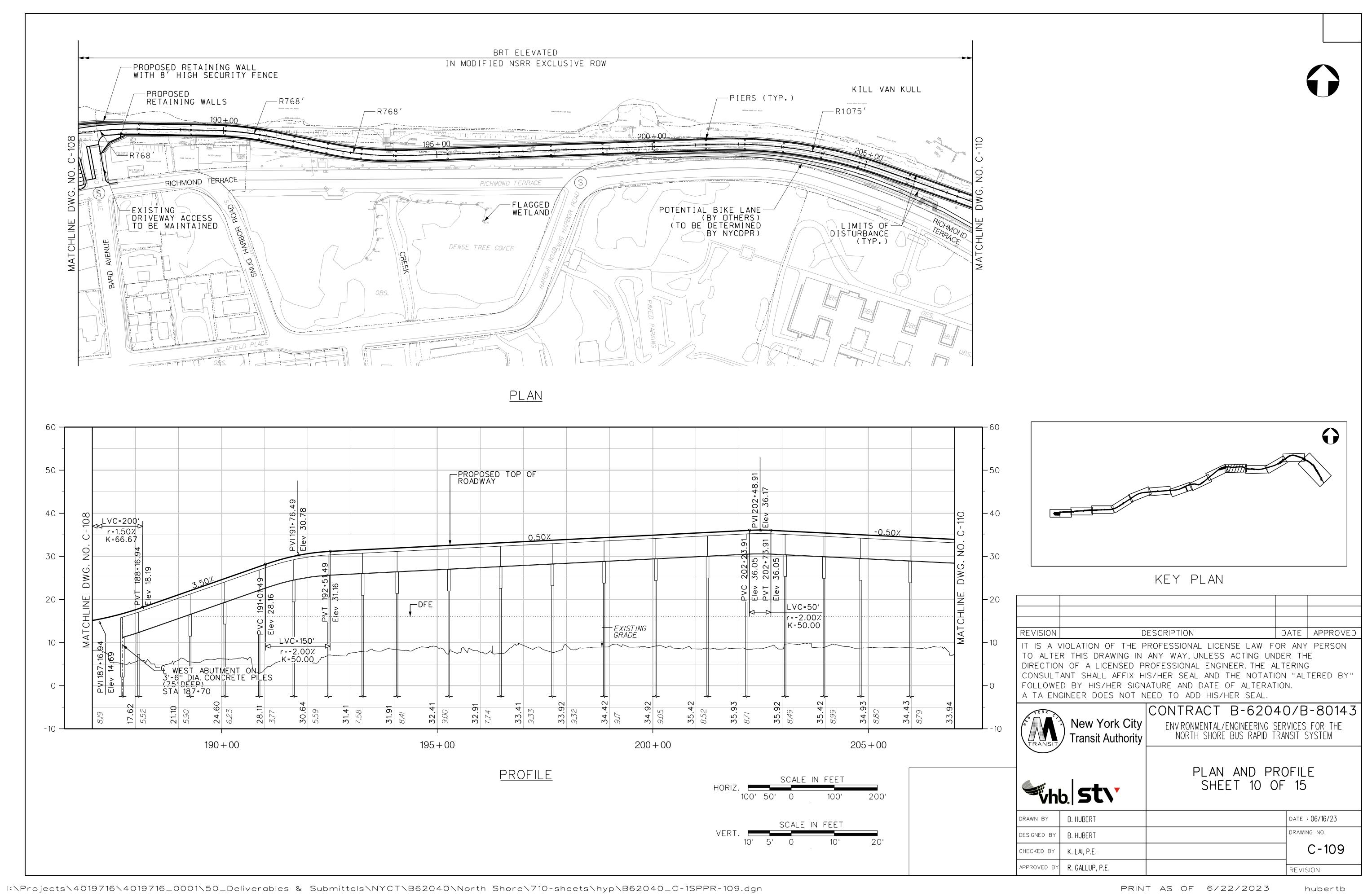


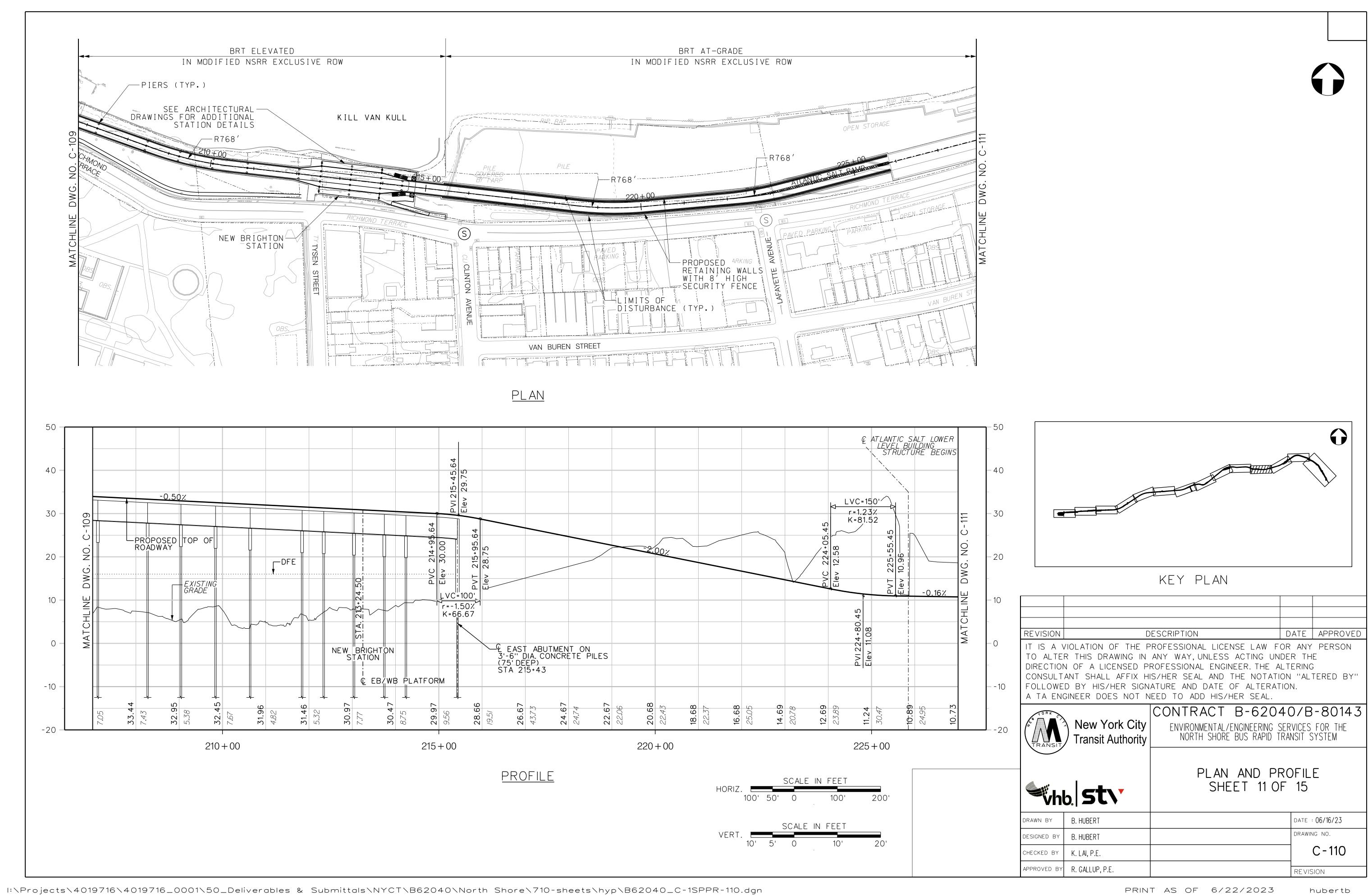


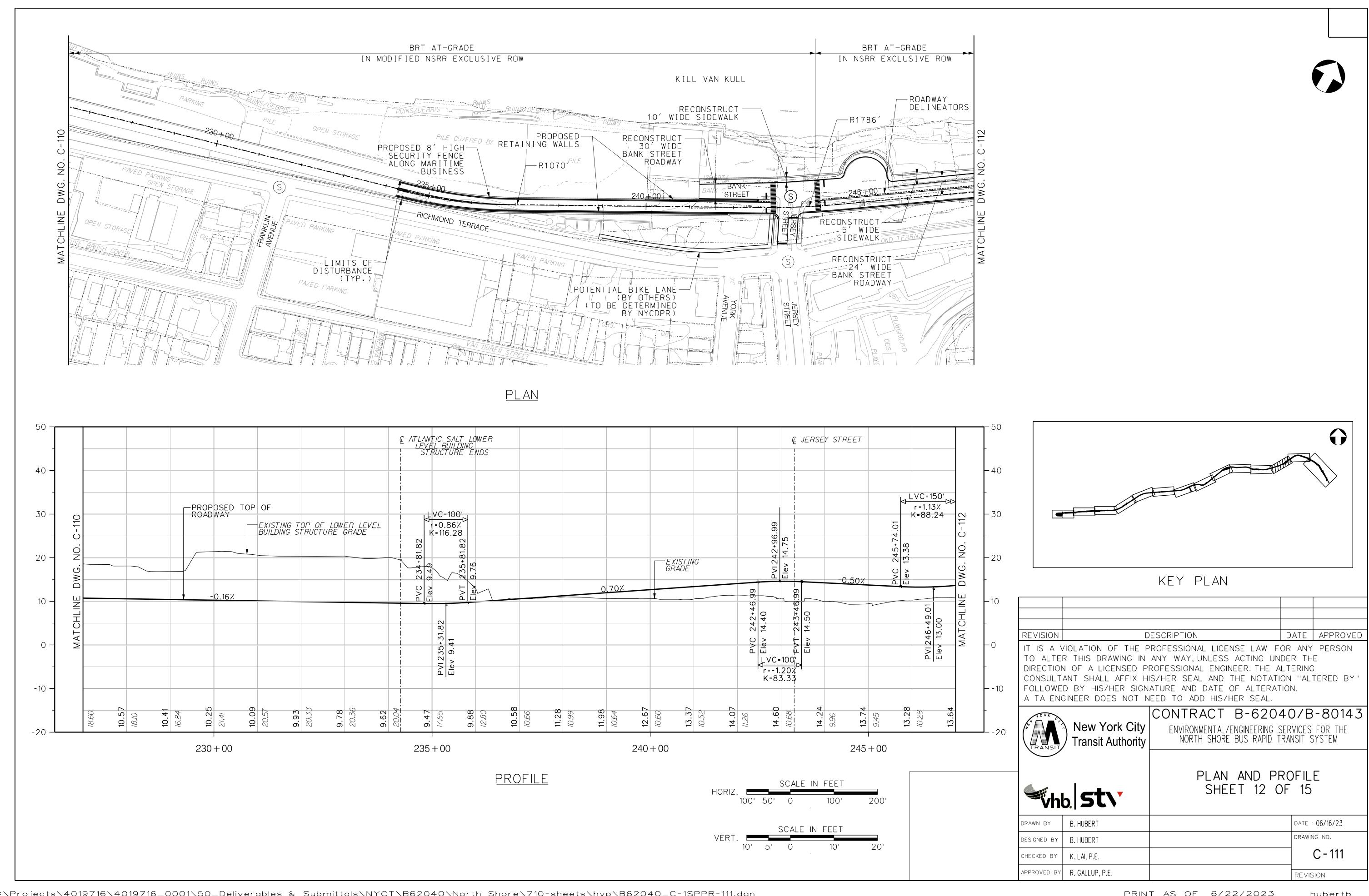


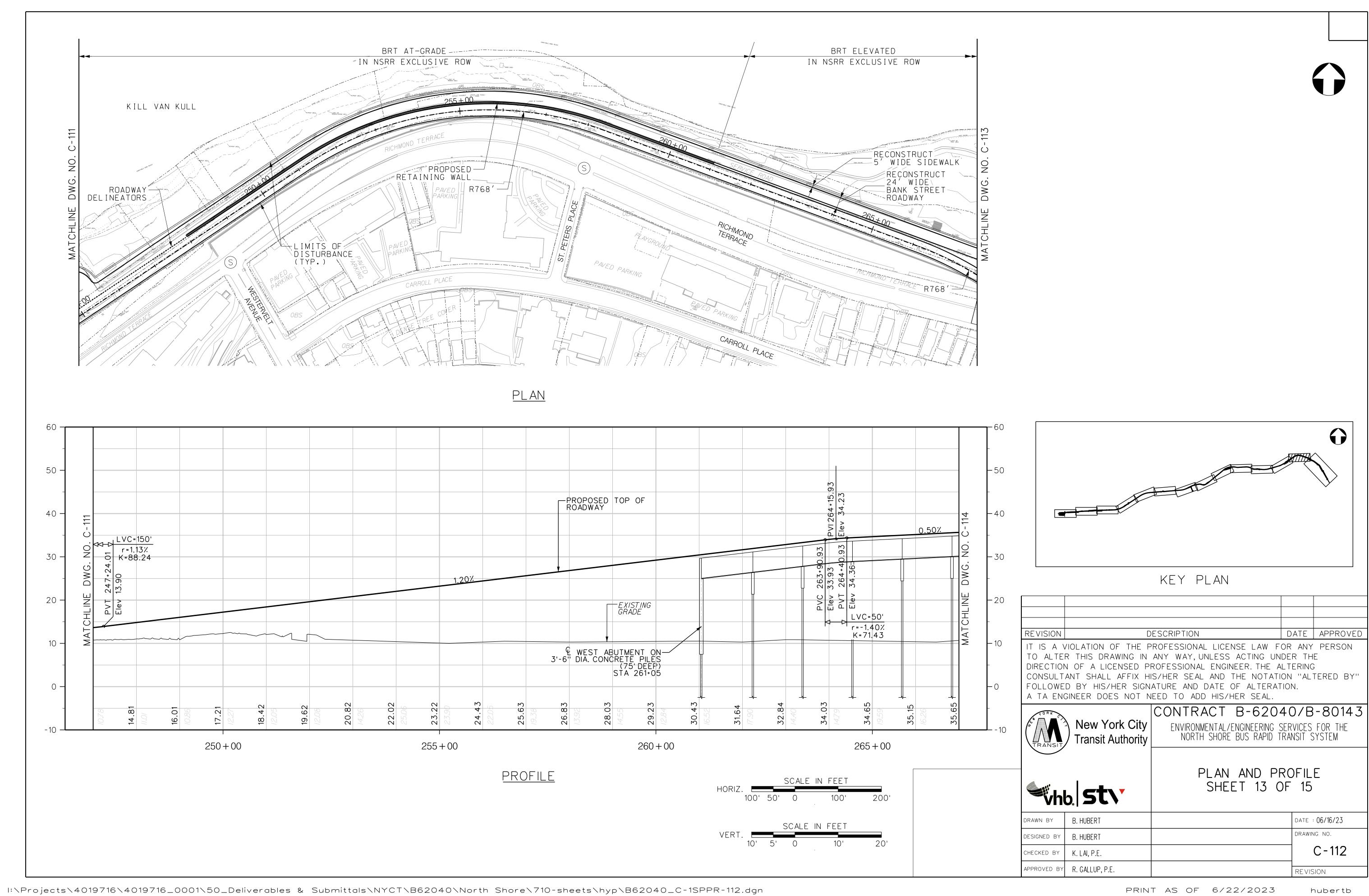


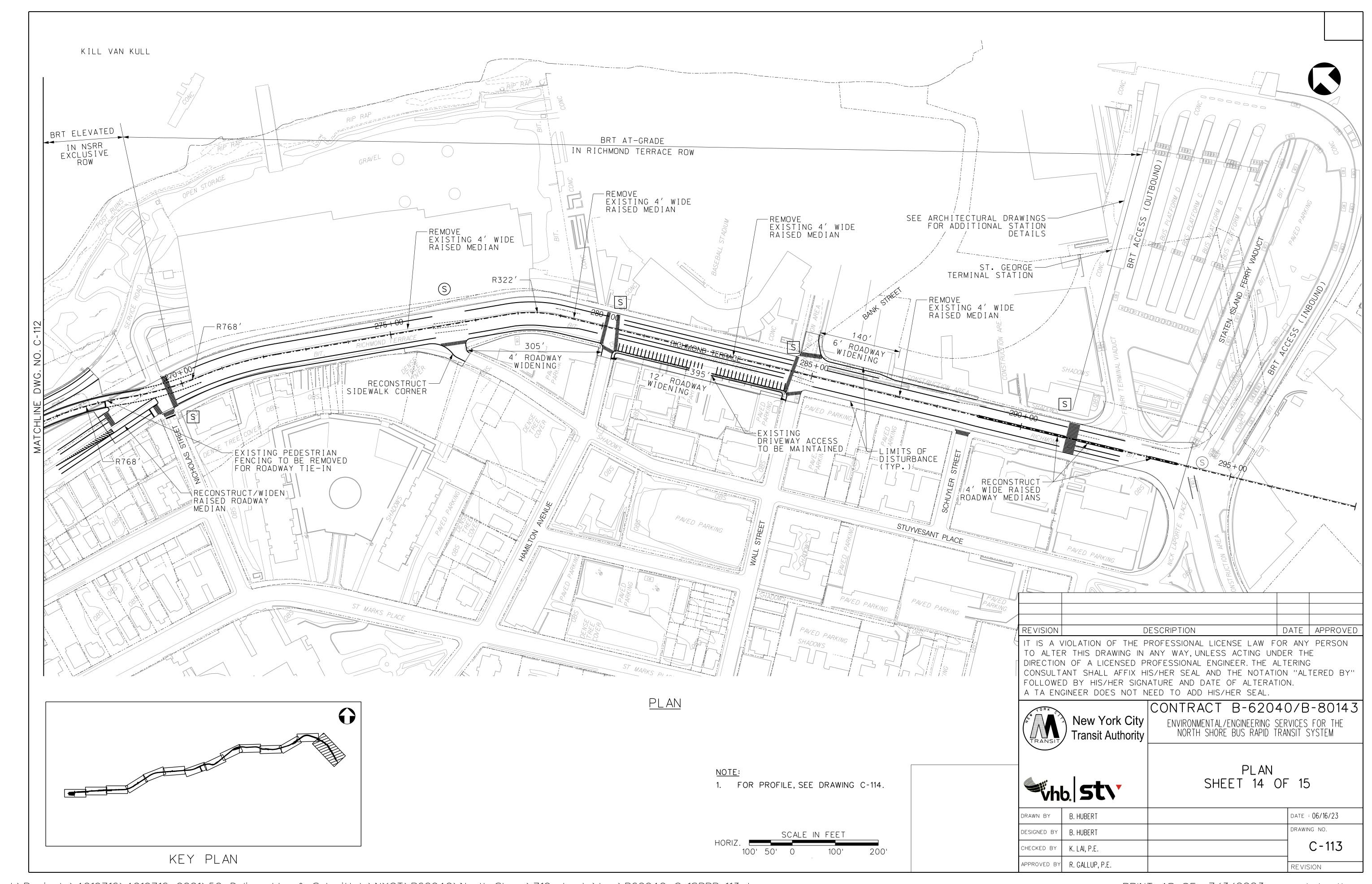


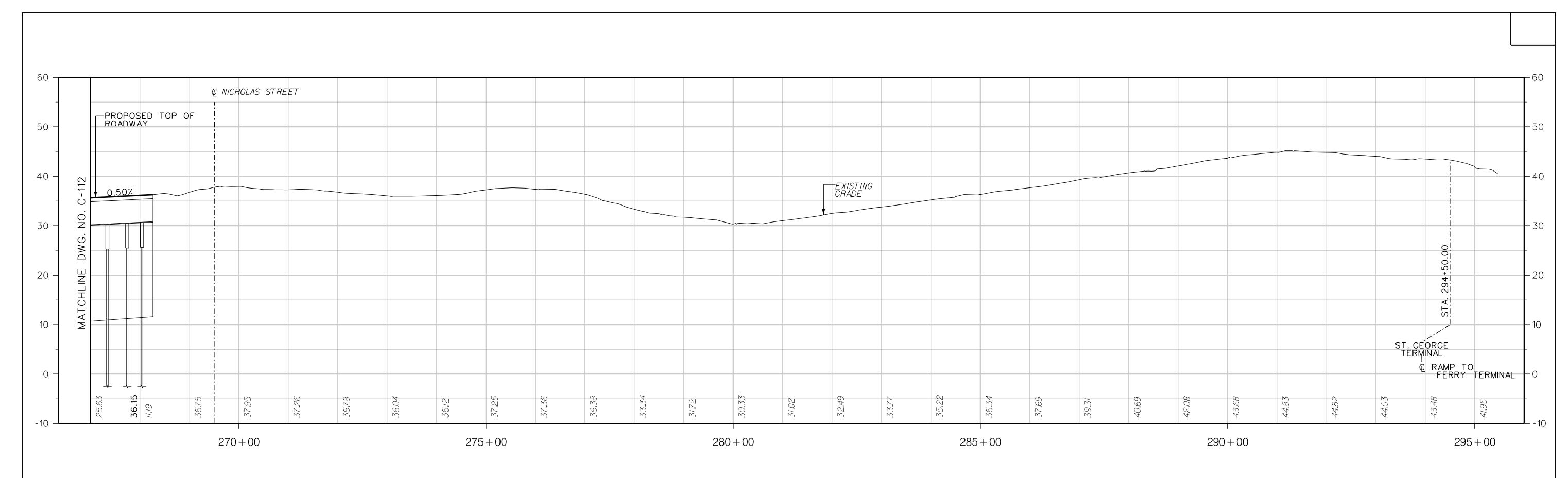




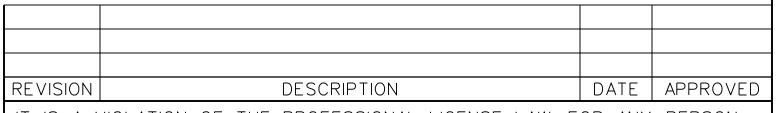








<u>PROFILE</u>



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CONTRACT B-62040/B-80143

ENVIRONMENTAL/ENGINEERING SERVICES FOR THE NORTH SHORE BUS RAPID TRANSIT SYSTEM



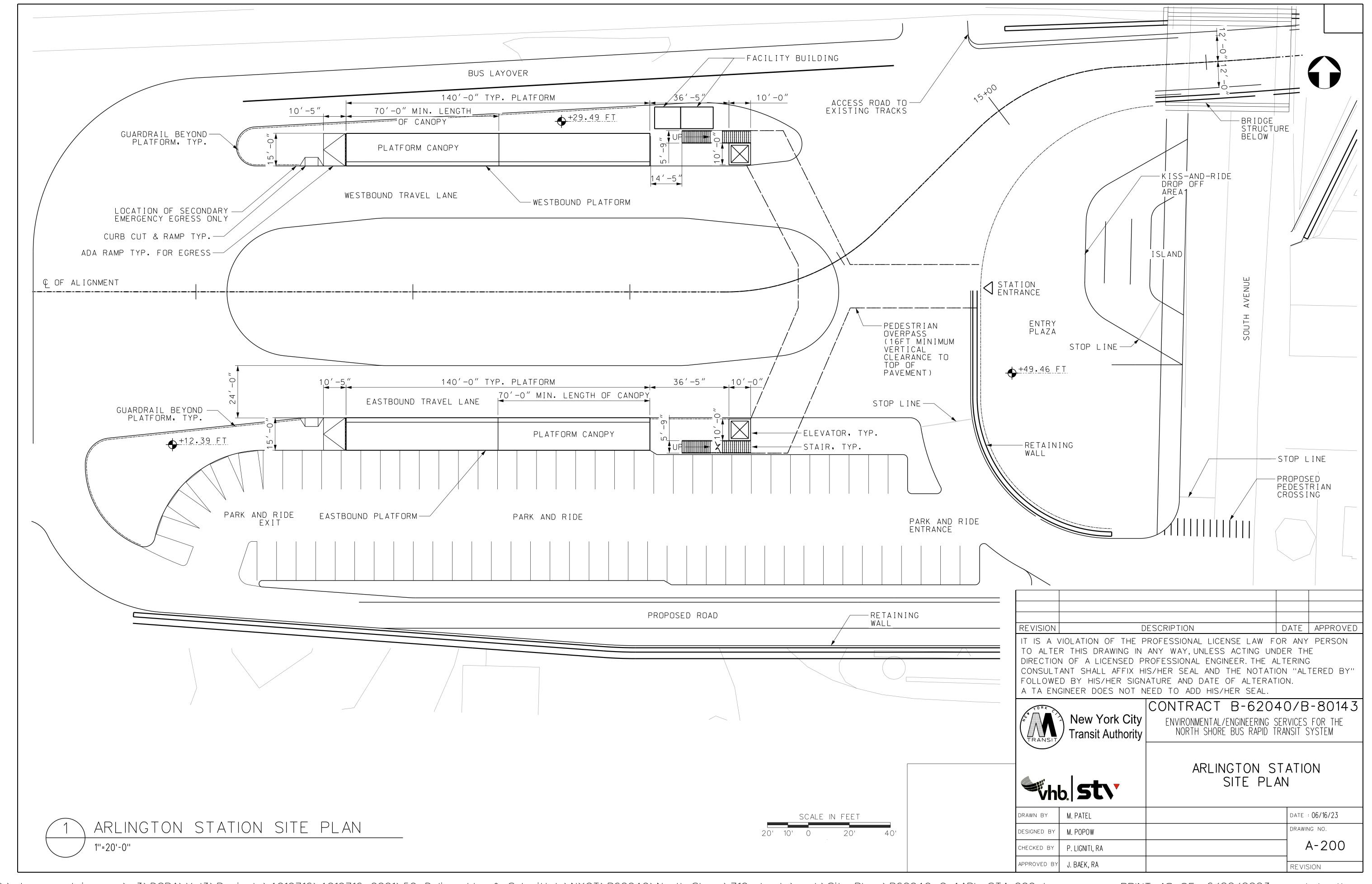
PROFILE SHEET 15 OF 15

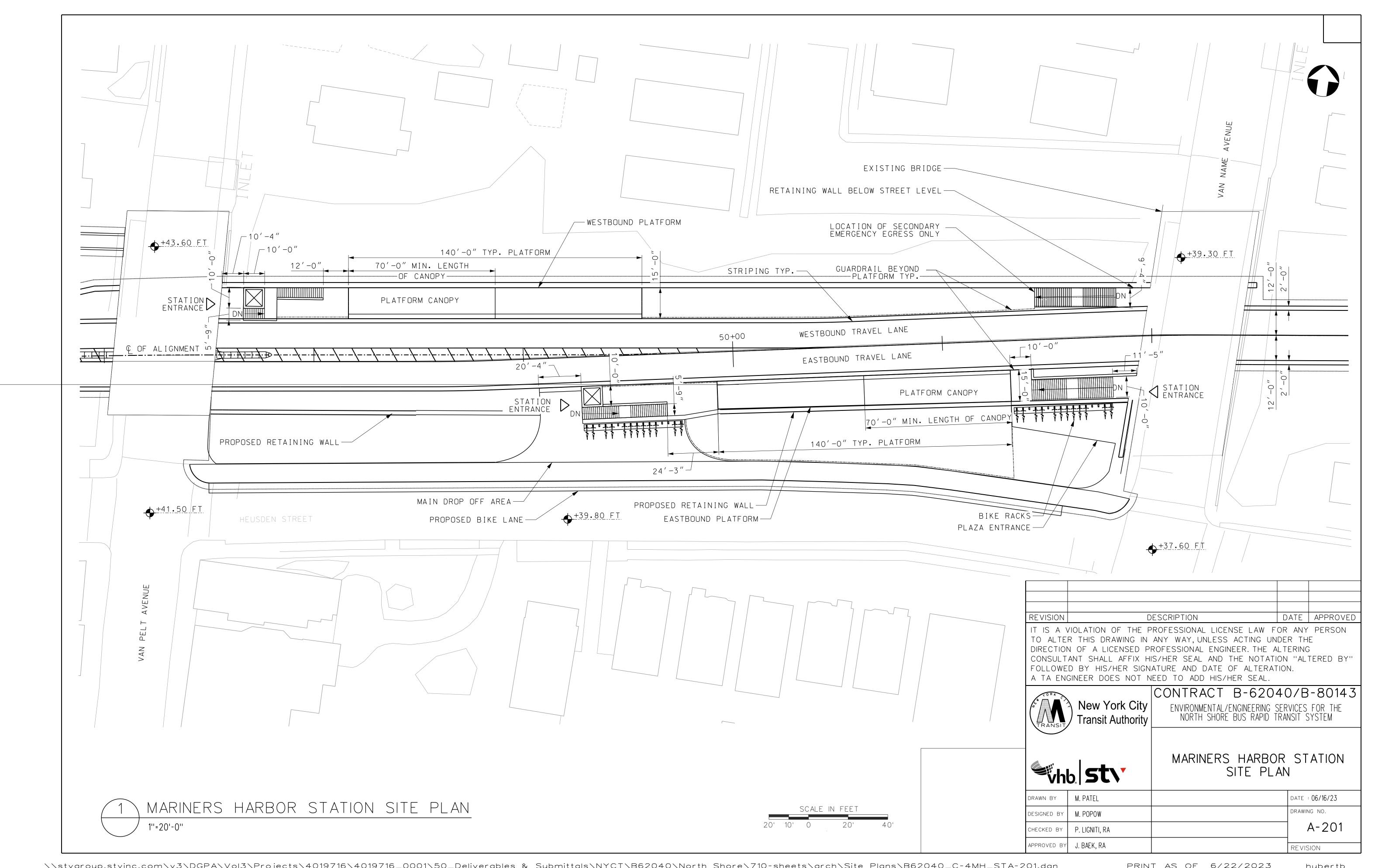
DATE : 06/16/23 B. HUBERT DRAWN BY DRAWING NO. B. HUBERT DESIGNED BY C - 114 K. LAI, P.E. CHECKED BY APPROVED BY R. GALLUP, P.E. REVISION

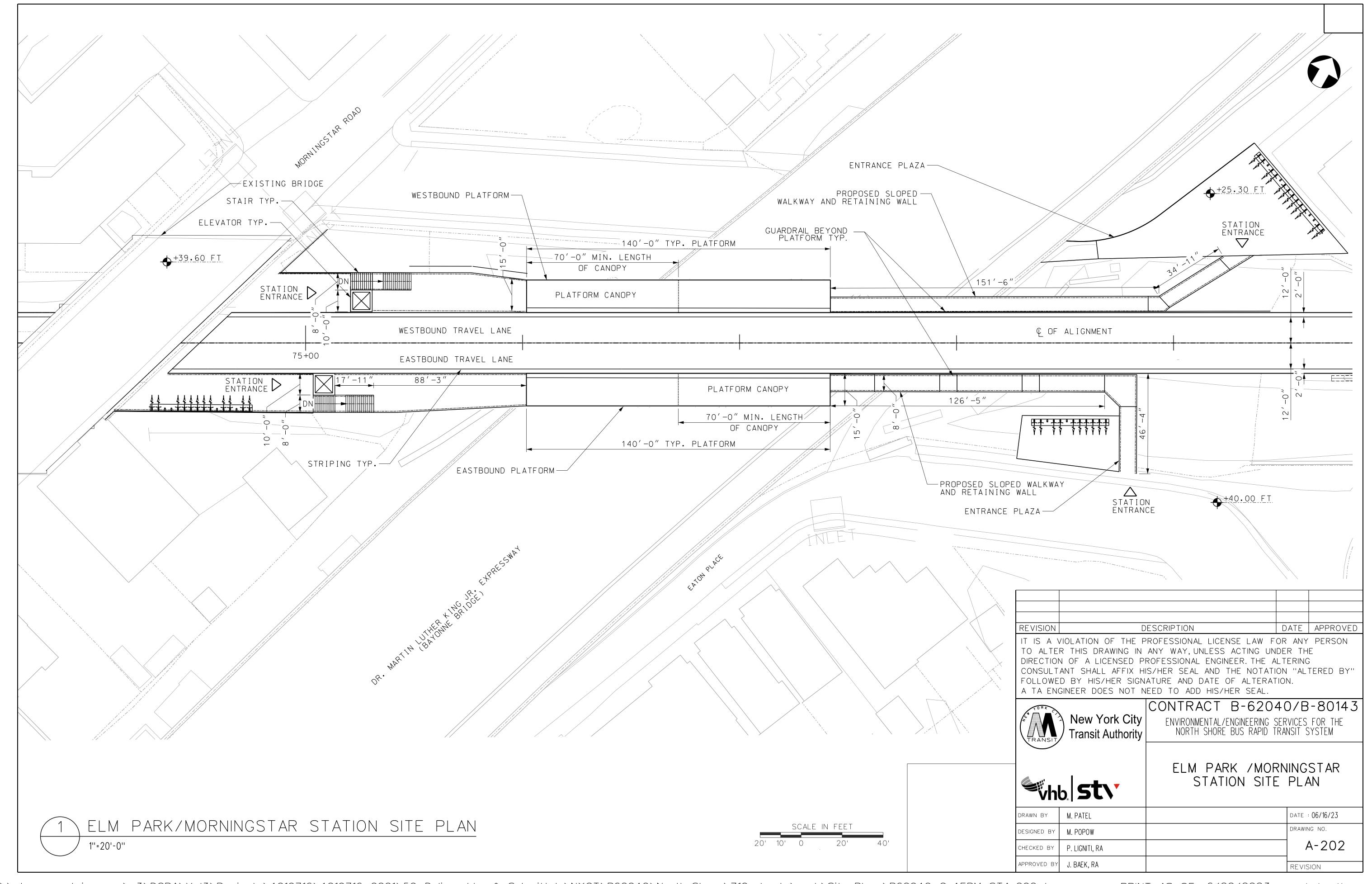
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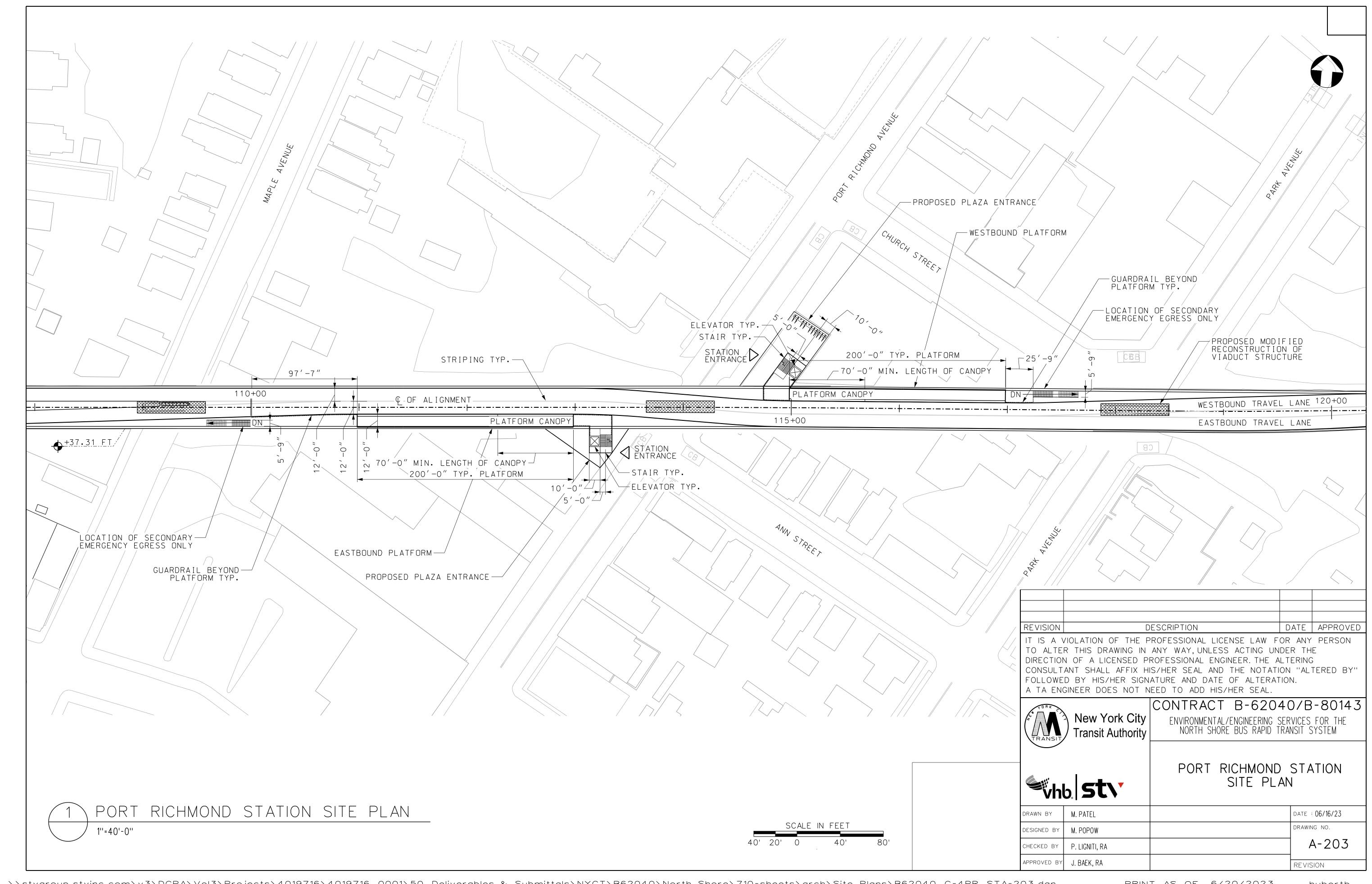
1. FOR PLAN, SEE DRAWING C-113.

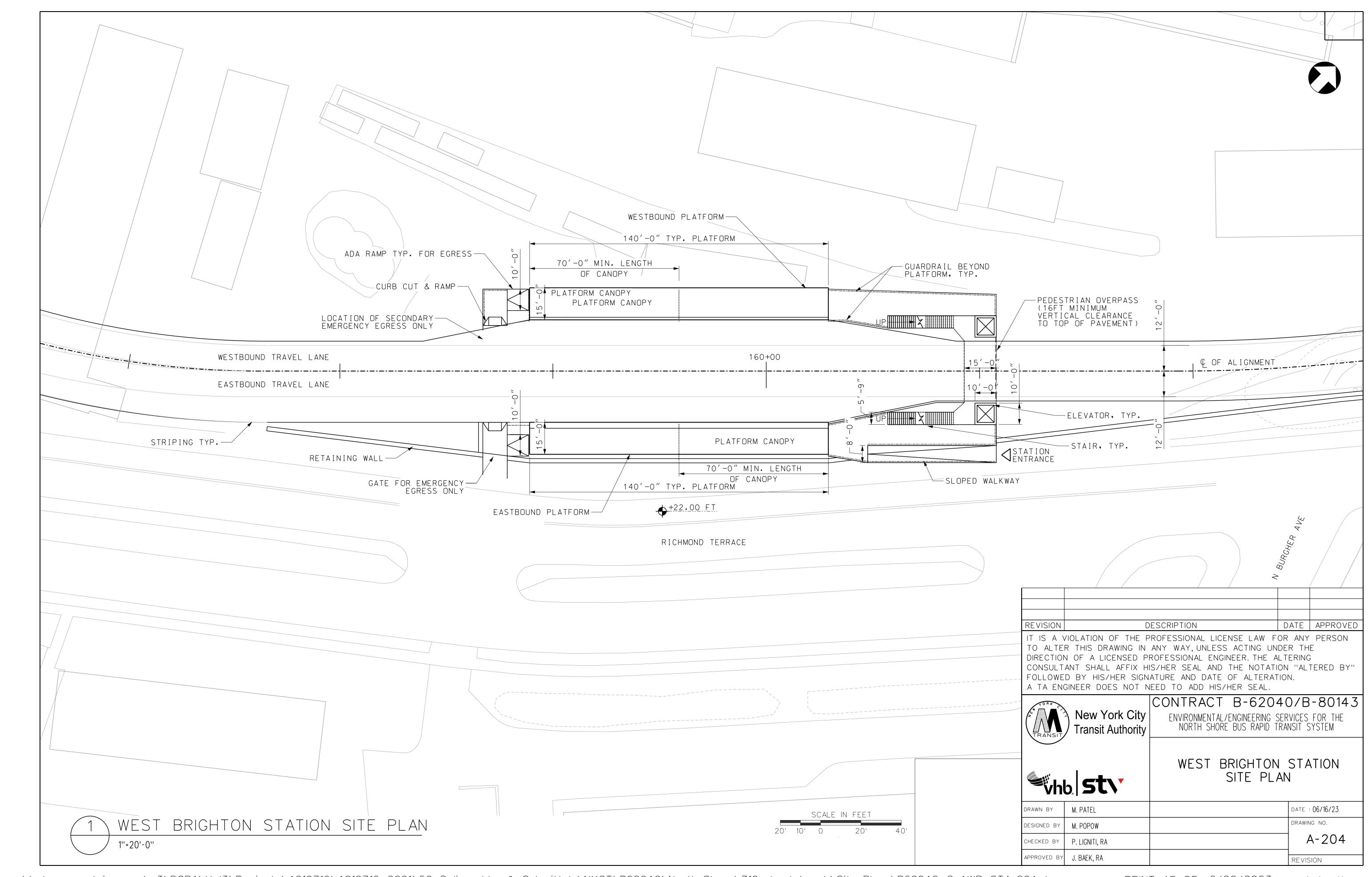
SCALE IN FEET

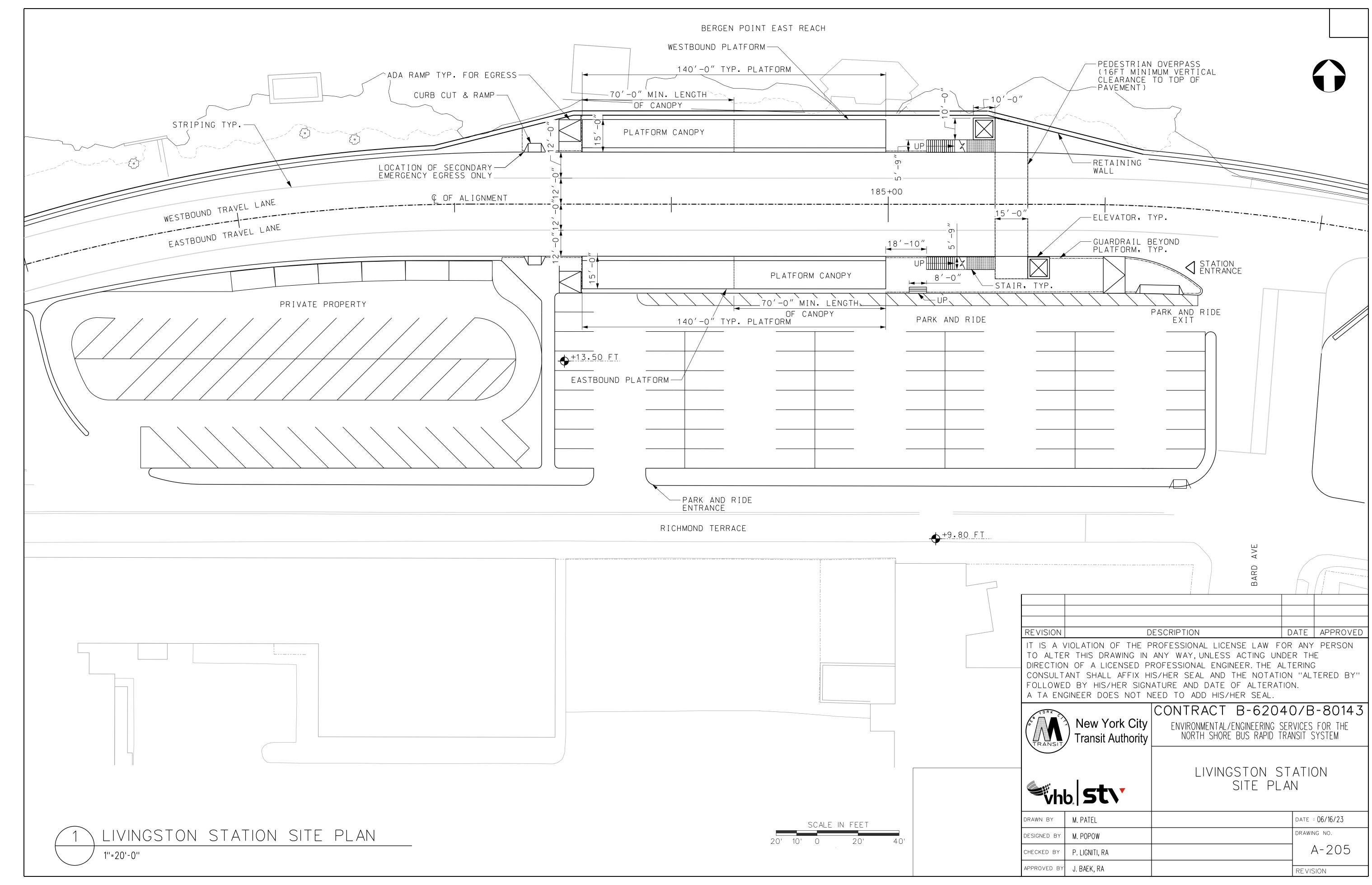


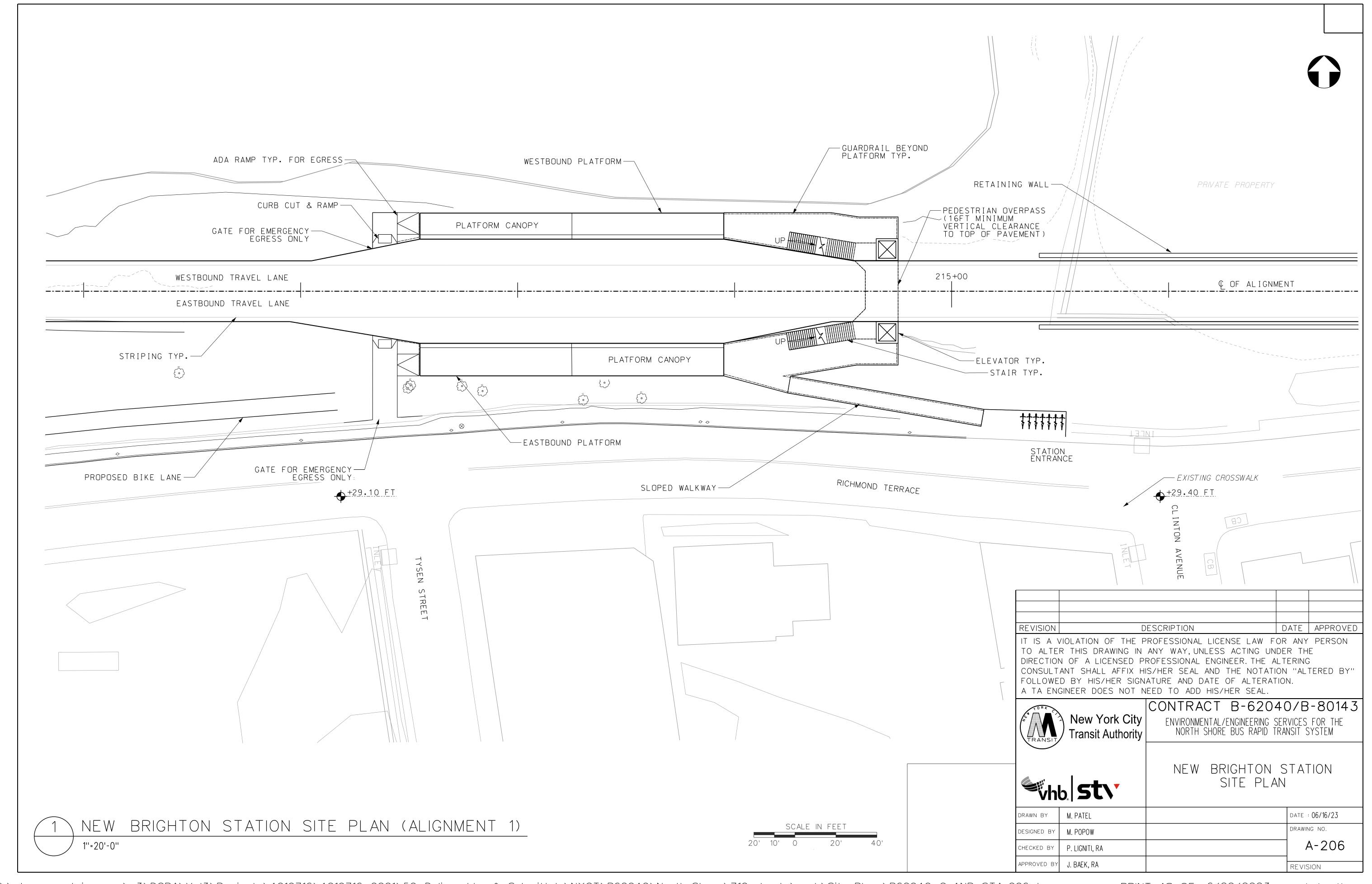


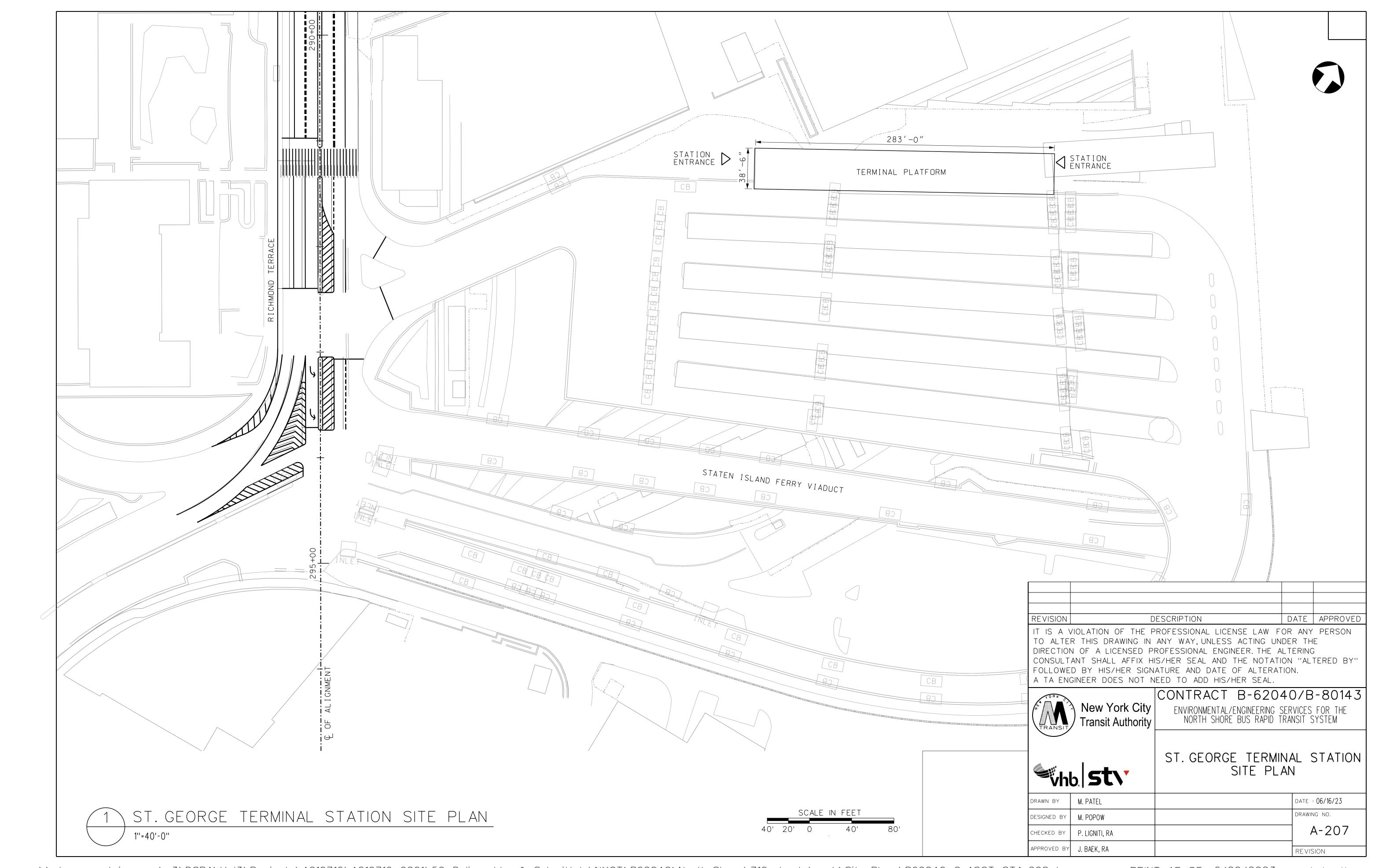


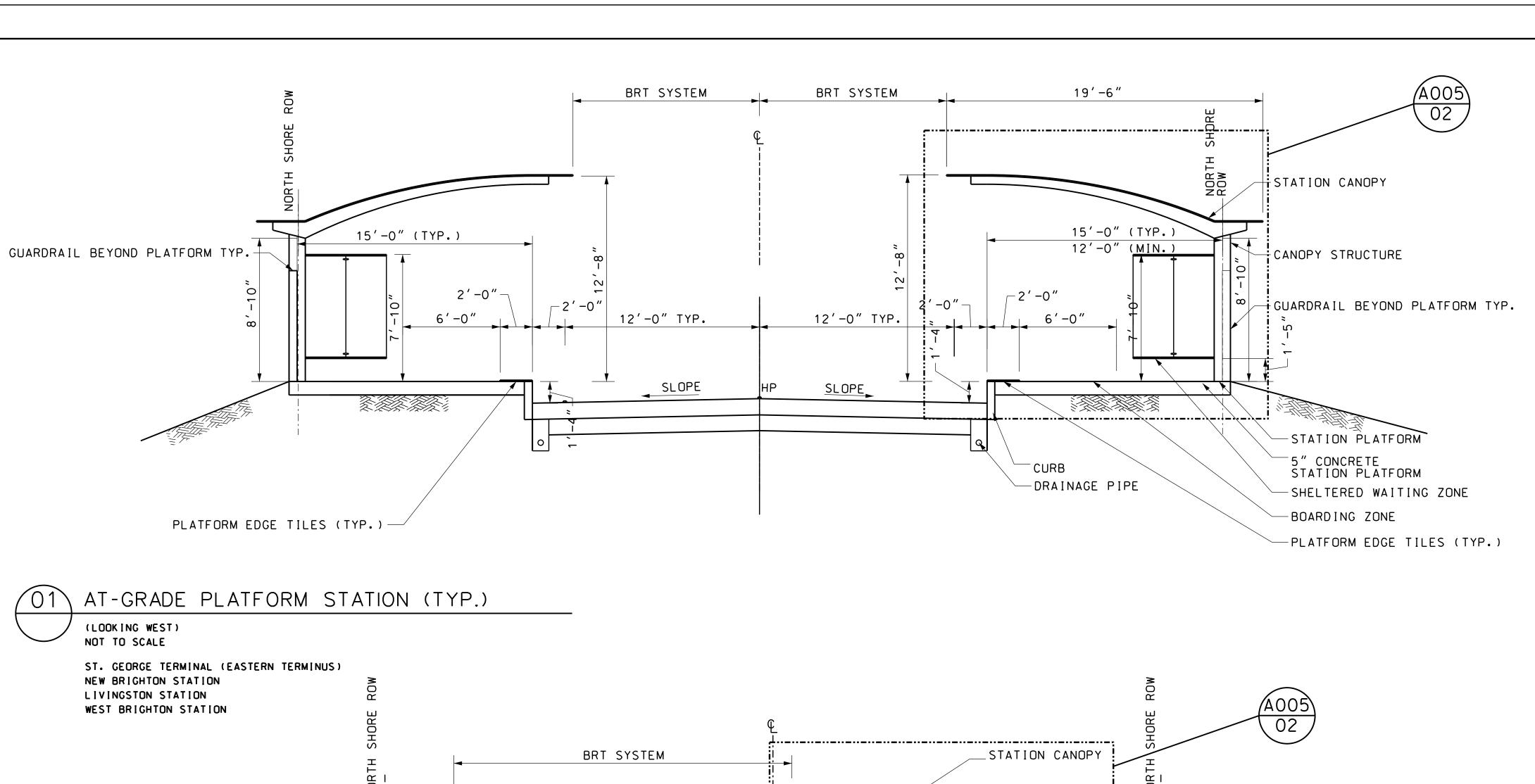












CANOPY STRUCTURE ! 4'-3" ! VARIES |2'-0" 12'-0" TYP. 12'-0" TYP. 12'-0" STATION 4'-3" PLATFORM TYP. VARIES GUARDRAIL BEYOND PLATFORM TYP. SLOPE SLOPE _STATION PLATFORM CONCRETE SIDEWALK _CONCRETE PEDESTAL _SHELTERED WAITING ZONE _BOARDING ZONE _PLATFORM EDGE TILES (TYP.) EXISTING CONCRETE -SLAB (TYP.) EXISTING CONCRETE VIADUCT - STRUCTURE (TYP.) (02) ELEVATED PLATFORM STATION (TYP.)

DATE APPROVED DESCRIPTION REVISION

IT IS A VIOLATION OF THE PROFESSIONAL LICENSE LAW FOR ANY PERSON TO ALTER THIS DRAWING IN ANY WAY, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER. THE ALTERING CONSULTANT SHALL AFFIX HIS/HER SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS/HER SIGNATURE AND DATE OF ALTERATION. A TA ENGINEER DOES NOT NEED TO ADD HIS/HER SEAL.



New York City Transit Authority

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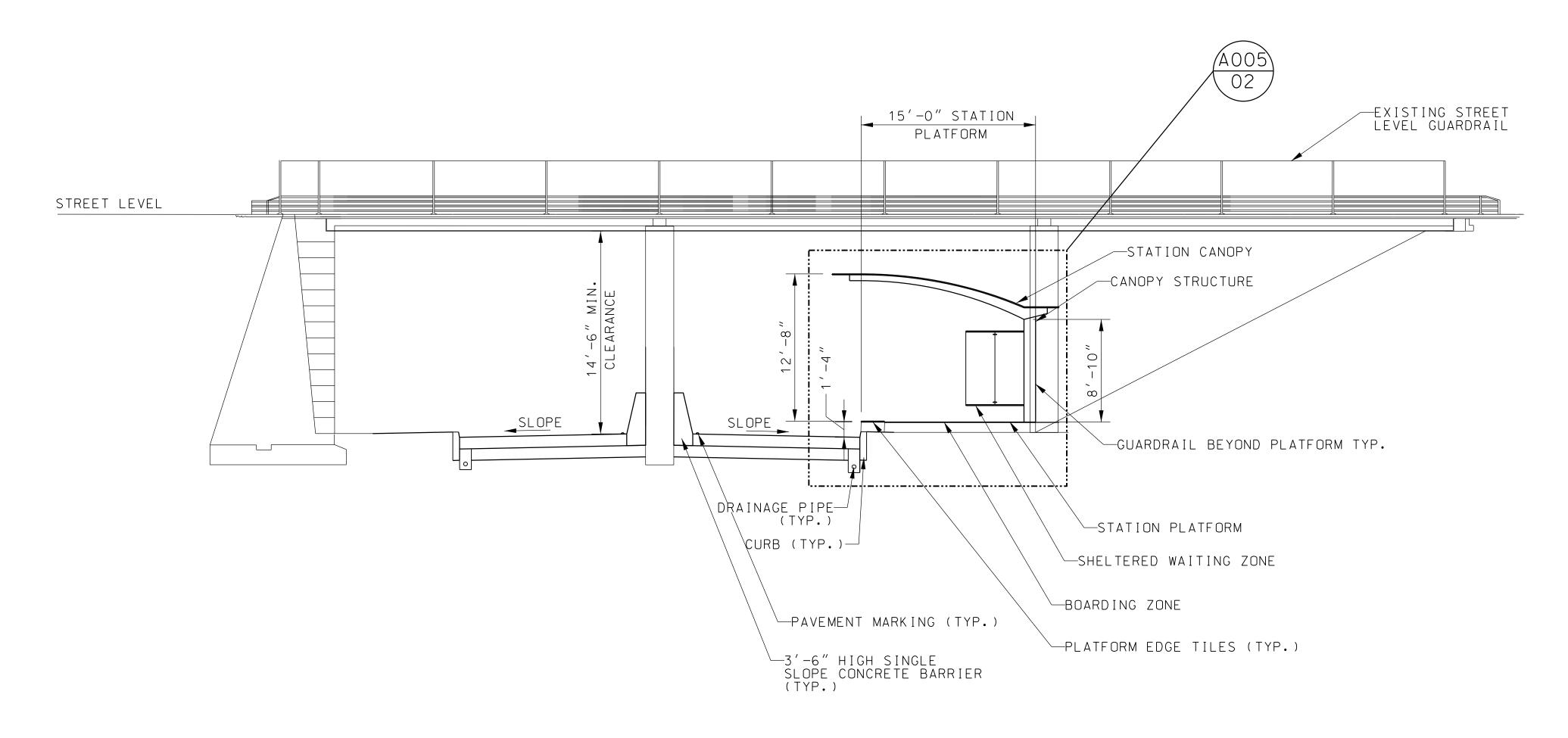
TYPICAL STATION SECTION SHEET 1 OF 4

DATE : 06/16/23 M. PATEL DRAWN BY DRAWING NO. M. POPOW DESIGNED BY A-001 CHECKED BY P. LIGNITI, RA APPROVED B J. BAEK, RA REVISION

(LOOKING WEST)

PORT RICHMOND STATION

NOT TO SCALE



O1 OPEN CUT PLATFORM STATION (TYP.)

(LOOKING WEST)
NOT TO SCALE

ELM PARK / MORNINGSTAR STATION MARINERS HARBOR STATION ARLINGTON STATION

EVISION	DESCRIPTION	DATE	APPROVED

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ENVIRONMENTAL/ENGINEERING SERVICES FOR THE

ENVIRONMENTAL/ENGINEERING SERVICES FOR THE NORTH SHORE BUS RAPID TRANSIT SYSTEM

TYPICAL STATION SECTION SHEET 2 OF 4



DRAWN BY M. PATEL

DESIGNED BY M. POPOW

CHECKED BY P. LIGNITI, RA

APPROVED BY J. BAEK, RA

DATE: 06/16/23

DRAWING NO.

A-002

