Project: South Battery Park City Resiliency Project:

<u>Pier A Plaza / Battery Site Work and Near</u> <u>Surface Isolation ("NSI") Construction Services</u> (the "Project") Request for Proposals ("RFP")

RE: Addendum #8 # of Pages: 31

Date: February 3, 2023

REVISIONS TO RFP:

The following new or revised Pier A/Battery and NSI Project Drawings and Specifications are hereby formally incorporated into the RFP's <u>Exhibit B-1</u> – Construction Documents (Project Drawings & Specifications). The below-listed revised Drawings replace and supersede all prior versions issued with the RFP. Note that the changes to the below-listed revised Drawings are indicated via a "bubble" that circles the area of the Drawings that is revised.

• New Maintenance and Protection of Traffic Drawings – Attachment #1:

MT401: Battery Park Underpass Closure Detour Plan 1 of 2 MT402: Battery Park Underpass Closure Detour Plan 2 of 2

• Revised Maintenance and Protection of Traffic Drawings – Attachment #2:

MT002: Maintenance and Protection of Traffic Notes 2 of 2 MT301: NSI Schematic MPT Location Plan (1 of 2) MT302: NSI Schematic MPT Location Plan (2 of 2) MT311: NSI Schematic MPT Plans 1 of 3 MT312: NSI Schematic MPT Plans 2 of 3 MT313: NSI Schematic MPT Plans 3 of 3

• Revised Structural Drawings – Attachment #3:

SF309: Flood Wall Plan 4 of 5 SF323: Enlarged Plans - Pier A Plaza SS304: Site Structures Plan 4 of 5 SS604: Security Bollard Details SS802: 84-Inch Tide Gate Details (Pier A Plaza) 2 of 2 SS806: 54-Inch Tide Gate Details (Rector Place) 2 of 2 SM602: Pier A Inlet Platform Concrete Details SM603: Pier A Inlet Platform Framing Details

• Revised Landscape Drawings – Attachment #4:

L325: Pier A Inlet Soil Plan L332: Pier A Inlet Planting - Shrubs L334: Pier A Inlet Planting - Herbaceous L339: Pier A Master Planting Schedule - 1

• Revised Civil Drawing – Attachment #5:

C002: General Notes and Notes

• New Specification #321000 | Roadway Resurfacing and Restoration (NYCDOT) - Attachment #6

• Revised Specification #265100 | Architectural Lighting

*NOTE: Due to the large size of this file, it has been added to <u>Exhibit B-1</u> via the RFP's original Exhibit B Dropbox <u>sub-folder</u>, rather than attached to this Addendum.

[NO FURTHER TEXT ON THIS PAGE]

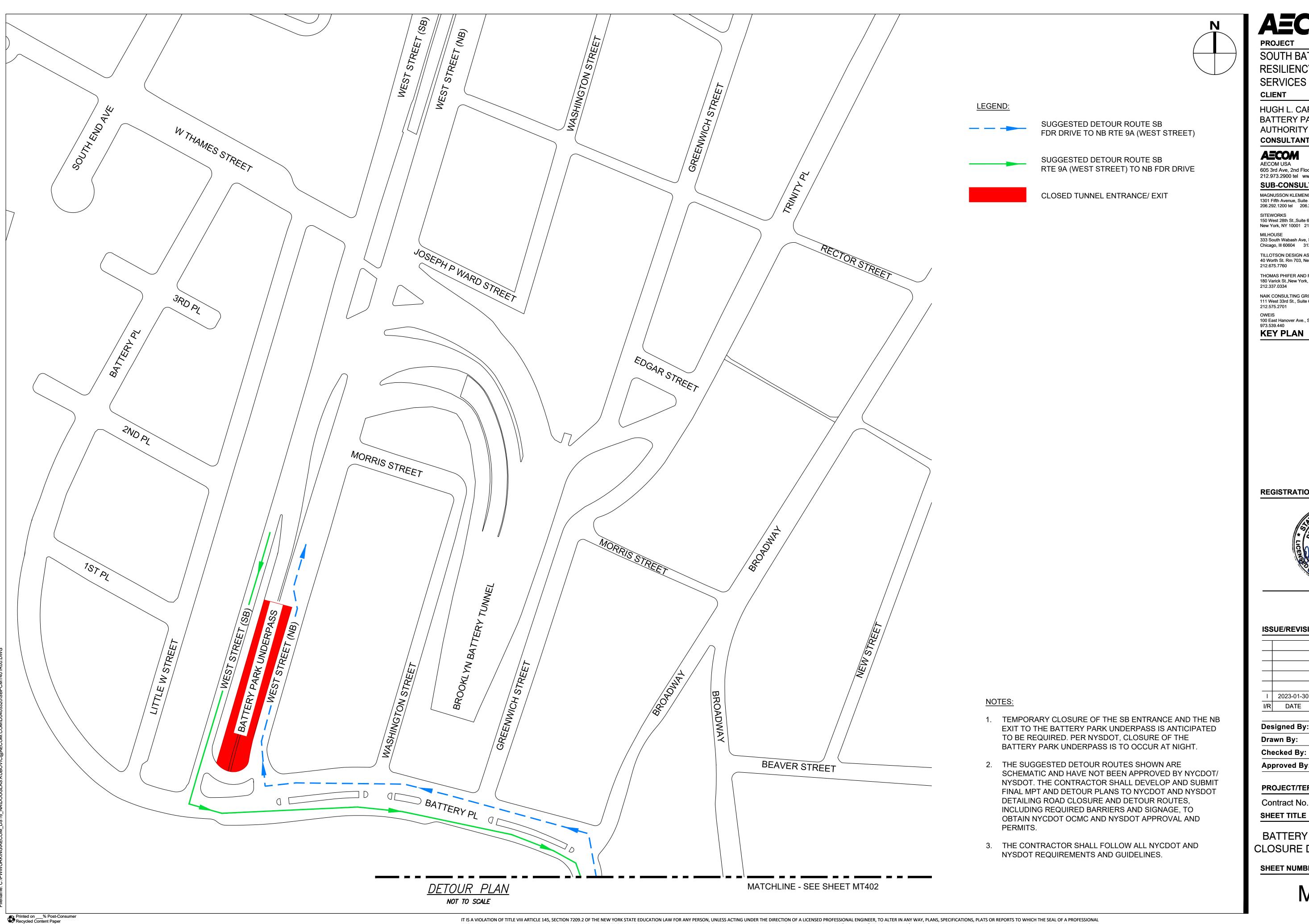
	ncknowledging that all pages of this A will be incorporated into the Proposal s asideration.	
Print Name (Above)	Signature (Above)	Date (Above)
Number of pages received: <fill in=""></fill>		

[NO FURTHER TEXT ON THIS PAGE]

<u>ATTACHMENT #1</u> NEW MAINTENANCE AND PROTECTION OF TRAFFIC DRAWINGS

MT401: Battery Park Underpass Closure Detour Plan 1 of 2 MT402: Battery Park Underpass Closure Detour Plan 2 of 2

(ATTACHED)



SOUTH BATTERY PARK CITY **RESILIENCY DESIGN**

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KEY PLAN

REGISTRATION



ISSUE/REVISION

Ι	2023-01-30	ADDENDUM REVISION 1
I/R	DATE	DESCRIPTION

Approved By:	P. BRUECK
Checked By:	D. KUBOVIC
Drawn By:	J. SHAW
Designed By:	J. SHAW

PROJECT/TERM CONTRACT NUMBER

Contract No. 18-2586

SHEET TITLE

BATTERY PARK UNDERPASS CLOSURE DETOUR PLAN 1 OF 2

SHEET NUMBER

SOUTH BATTERY PARK CITY RESILIENCY DESIGN

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	 - /R	

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Approved By:	P. BRUECK

PROJECT/TERM CONTRACT NUMBER

Contract No. 18-2586

SHEET TITLE

BATTERY PARK UNDERPASS CLOSURE DETOUR PLAN 2 OF 2

SHEET NUMBER

ATTACHMENT #2

REVISED MAINTENANCE AND PROTECTION OF TRAFFIC DRAWINGS

MT002: Maintenance and Protection of Traffic Notes 2 of 2 MT301: NSI Schematic MPT Location Plan (1 of 2) MT302: NSI Schematic MPT Location Plan (2 of 2)

MT311: NSI Schematic MPT Plans 1 of 3 MT312: NSI Schematic MPT Plans 2 of 3 MT313: NSI Schematic MPT Plans 3 of 3

(ATTACHED)

FDNY-OPERATIONS CONSIDERATIONS

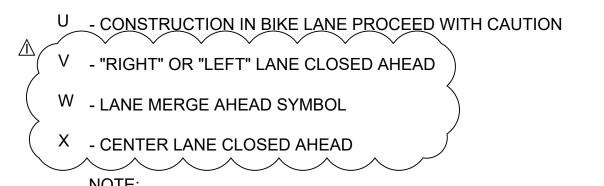
- PRIOR TO CONSTRUCTION CONTRACTOR SHALL CONTACT FIRE DEPARTMENT OPERATIONS CENTER (FDOC) TO ARRANGE PRECONSTRUCTION MEETING WITH FDNY DIVISION 11.
- 2. AN EMERGENCY ACCESS LANE, WITH A MINIMUM WIDTH OF 10 FEET, SHALL BE PROVIDED TO ENSURE ACCESS FOR FIRE DEPARTMENT VEHICLES ALONG ENTIRE LENGTH OF THE STREET UNLESS OTHERWISE APPROVED IN WRITING BY THE FIRE DEPARTMENT. THE EMERGENCY ACCESS LANE MUST BE ACCESSIBLE FROM BOTH ENDS OF THE STREET.
- 3. ACCESS TO ALL HYDRANTS, BUILDING ENTRANCES AND SIAMESE CONNECTIONS MUST BE AVAILABLE AT ALL TIMES.
- CONTRACTOR TO PROVIDE REFLECTIVE SIGNAGE ON FENCING TO CLEARLY INDICATE LOCATION OF ALL HYDRANTS AND SIAMESE CONNECTIONS.
- WHERE TRENCHING IS TO BE EMPLOYED WITHIN 50 FEET OF A HYDRANT OR SIAMESE CONNECTION, BRIDGING (OR STEEL PLATES OR OTHER APPROVED MEANS) MUST BE EMPLACED TO ENABLE FDNY UNITS TO CROSS THE TRENCH, ADHERING TO THE **FOLLOWING:**
 - A. NOT MORE THAN 200 FEET APART. PROXIMITY TO HYDRANTS IS IMPERATIVE.
 - B. MINIMUM OF 4 FEET WIDE AND CAPABLE OF SUPPORTING A MINIMUM WEIGHT OF 1200 LBS.
 - C. PRIMARY SUPPORTS SHALL BE NON-COMBUSTIBLE
- NO STREET SHALL BE CLOSED TO EMERGENCY TRAFFIC WITHOUT PRIOR WRITTEN APPROVAL OF THE FIRE DEPARTMENT.
- 7. ALL INTERSECTIONS MUST REMAIN OPEN AT ALL TIMES. INTERSECTION MAY BE CLOSED FOR UP TO 1/2 THEIR WIDTH TO ALLOW FOR NECESSARY ROADWORK WHILE STILL ALLOWING FOR EMERGENCY VEHICLE ACCESS.
- 8. IN NO CASE SHALL CONTRACTOR BLOCK ACCESS TO SIAMESE CONNECTION.
- PERSON(S) RESPONSIBLE FOR STREET/LANE CLOSURES SHALL NOTIFY THE FDOC AT 718-999-7900 AT LEAST 48 HOURS IN ADVANCE OF ANY WORK THAT WOULD RENDER A FIRE HYDRANT OR STANDPIPE/SPRINKLER SYSTEM OUT OF SERVICE OR INACCESSIBLE. THE FDOC WILL NOTIFY THE ADMINISTRATIVE UNITS.
- 10. IF ANY CHANGES TO STREET WIDTHS ARE PROPOSED IN FUTURE PLANS, THE FIRE DEPARTMENT NEEDS A MINIMUM STREET WIDTH OF 25 FEET TO COMPLETE A RIGHT HAND TURN WHEN COMING OFF AN EXISTING STREET.
- 11. THE PERSON(S) RESPONSIBLE FOR STREET/LANE CLOSURES SHALL NOTIFY THE FIRE DEPARTMENT VIA EMAIL AT PLANING@FDNY.NYC.GOV NOT LESS THAN 3 BUSINESS DAYS PRIOR TO DATE OF CLOSING. THE EMAIL SHALL CONTAIN THE FOLLOWING INFORMATION:
 - A. CONSTRUCTION COMPANY NAME AND CONTACT INFORMATION (24 HOUR)
 - B. STREET NAME (AND CROSS STREETS IF APPLICABLE)
 - C. DATE(S) OF CLOSURE
 - D. TIME OF CLOSURE (START/END TIMES)
 - E. NYCDOT PERMIT NUMBER
 - F. PDF SITE PLAN SHOWING AREA OF CLOSURE AND ACCESS LANE

SPECIAL NOTE:

CONTRACTOR SHALL SUBMIT A PROPOSED STAGING PLAN AND SCHEDULE FOR ALL THE WORK WITHIN BPCA PROPERTY TO BPCA FOR REVIEW AND APPROVAL PRIOR TO THE START OF WORK.

TEMPORARY CONSTRUCTION SIGNS - TEXT IN ACCORDANCE WITH NYCDOT STANDARD **HIGHWAY SPECIFICATION SECTION 6.25**

- A ROAD WORK AHEAD
- B SIDEWALK CLOSED, CROSS HERE (WITH ARROW)
- C CROSSWALK CLOSED
- D LARGE ARROW KEEP RIGHT (OR LEFT)
- E END ROAD WORK
- F NO PARKING ANY TIME
- G ROAD CLOSED TO THRU TRAFFIC **EXCEPT LOCAL AND EMERGENCY VEHICLES**
- H NO LEFT TURN
- I NO RIGHT TURN
- J TWO DIRECTION LARGE ARROW
- K ROAD CLOSED AHEAD
- L NO STANDING ANY TIME
- M (SIAMESE CONNECTION SYMBOL WITH ARROW)
- N (HYDRANT SYMBOL WITH ARROW)
- O DETOUR AHEAD
- P "STREET NAME" DETOUR (WITH LEFT ARROW)
- Q "STREET NAME" DETOUR (WITH RIGHT ARROW)
- R "STREET NAME" DETOUR (WITH UP ARROW)
- S END DETOUR
- T CONSTRUCTION IN BIKE LANE AHEAD PROCEED WITH CAUTION



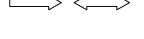
NOT ALL SIGN TYPES ABOVE ARE USED ON MPT PLANS.

LEGEND

WORK AREA



DIRECTION OF TRAFFIC



(EXISTING)

DIRECTION OF TRAFFIC (MODIFIED DURING MPT ONLY)

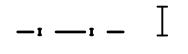
LIGHTED TIMBER BARRICADE [DWG. NO. H-1013 ILLUMINATED TIMBER BARRICADE]



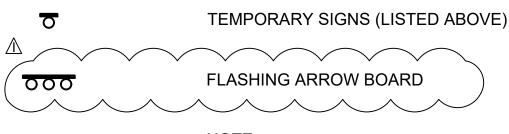
WATERFILLED BARRIER



PLASTIC BARREL [DWG. NO. H-1049 PLASTIC BARREL]



PEDESTRIAN STEEL BARRICADES [H-1014 TEMPORARY PEDESTRIAN STEEL BARRICADE]



NOTE:

DRAWINGS REFERENCED IN LEGEND REFER TO NYCDOT STANDARD DETAILS OF

CONSTRUCTION.

PROJECT

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SERVICES CLIENT

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ISSUE/REVISION

2023-01-24 | ADDENDUM REVISION 1 2022-11-02 | BID SET DATE DESCRIPTION

Designed By: M. FOSTER M. FOSTER Drawn By: Checked By: D. KUBOVIC Approved By: | P. BRUECK

PROJECT/TERM CONTRACT NUMBER

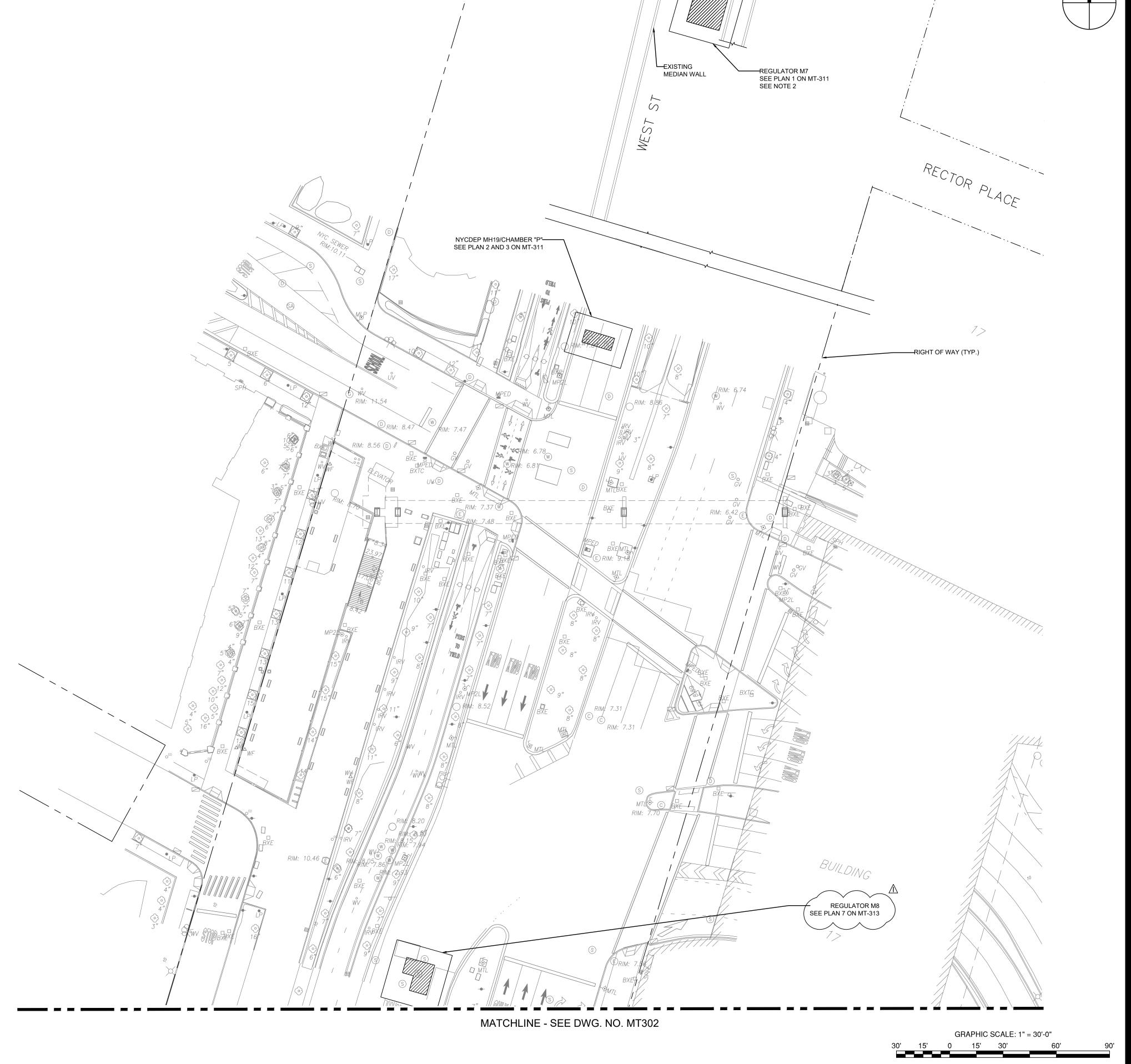
Contract No. 18-2586

SHEET TITLE

MAINTENANCE AND PROTECTION OF TRAFFIC NOTES 2 OF 2

SHEET NUMBER

- 1. PROPOSED WORK SHOWN HEREIN IS LIMITED TO THE MODIFICATION OF EXISTING DEP INTERCEPTOR SEWER/ REGULATOR STRUCTURES FOR THE PURPOSE OF FLOOD HARDENING THE EXISTING INTERCEPTOR. FOR ALL OTHER PROPOSED WORK, SEE APPROPRIATE DRAWINGS.
- 2. REGULATOR M7 IS LOCATED OUTSIDE OF THE TOPOGRAPHIC SURVEY LIMIT AND IS SHOWN SCHEMATICALLY. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND LOCATION PRIOR TO START OF WORK. NO ADDITIONAL PAYMENT SHALL BE MADE BASED ON EXISTING FIELD CONDITIONS NOT SHOWN IN DRAWINGS.
- 3. SEE DWG. NO. NG001, MT001 AND MT002 FOR MAINTENANCE AND PROTECTION OF TRAFFIC NOTES.



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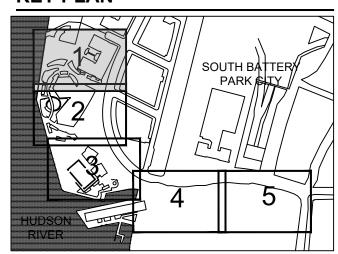
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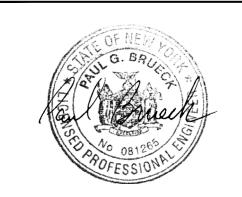
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I/R	DATE	DESCRIPTION
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	2023-01-24	ADDENDUM REVISION 1

Designed by:	J. SHAW
Drawn By:	J. SHAW
Checked By:	D. KUBOVIC
Approved By:	P. BRUECK

PROJECT/TERM CONTRACT NUMBER

Contract No. 18-2586

SHEET TITLE

NEAR SURFACE ISOLATION SCHEMATIC MPT LOCATION PLAN (1 of 2) SHEET NUMBER

MT301

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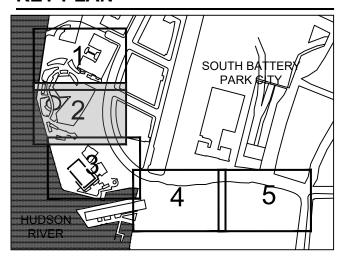
212.675.7760 THOMAS PHIFER AND PARTNERS 180 Varick St., New York, NY 10014

Thomas Phifer and Partners

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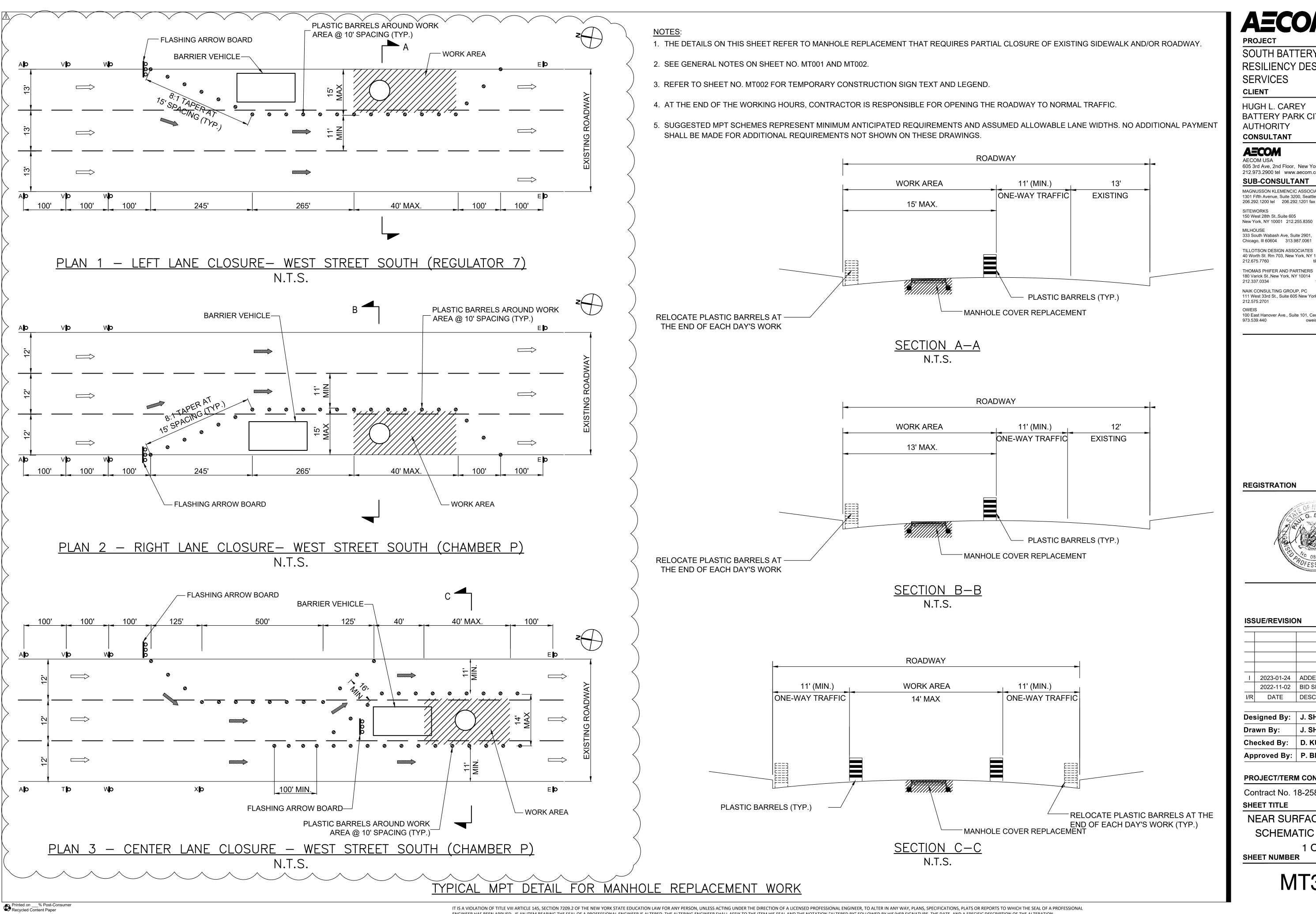
Designed By:	J. SHAW
Drawn By:	J. SHAW
Checked By:	D. KUBOVIC
Approved By:	P. BRUECK

PROJECT/TERM CONTRACT NUMBER

Contract No. 18-2586

SHEET TITLE

NEAR SURFACE ISOLATION SCHEMATIC MPT LOCATION PLAN (2 of 2) SHEET NUMBER



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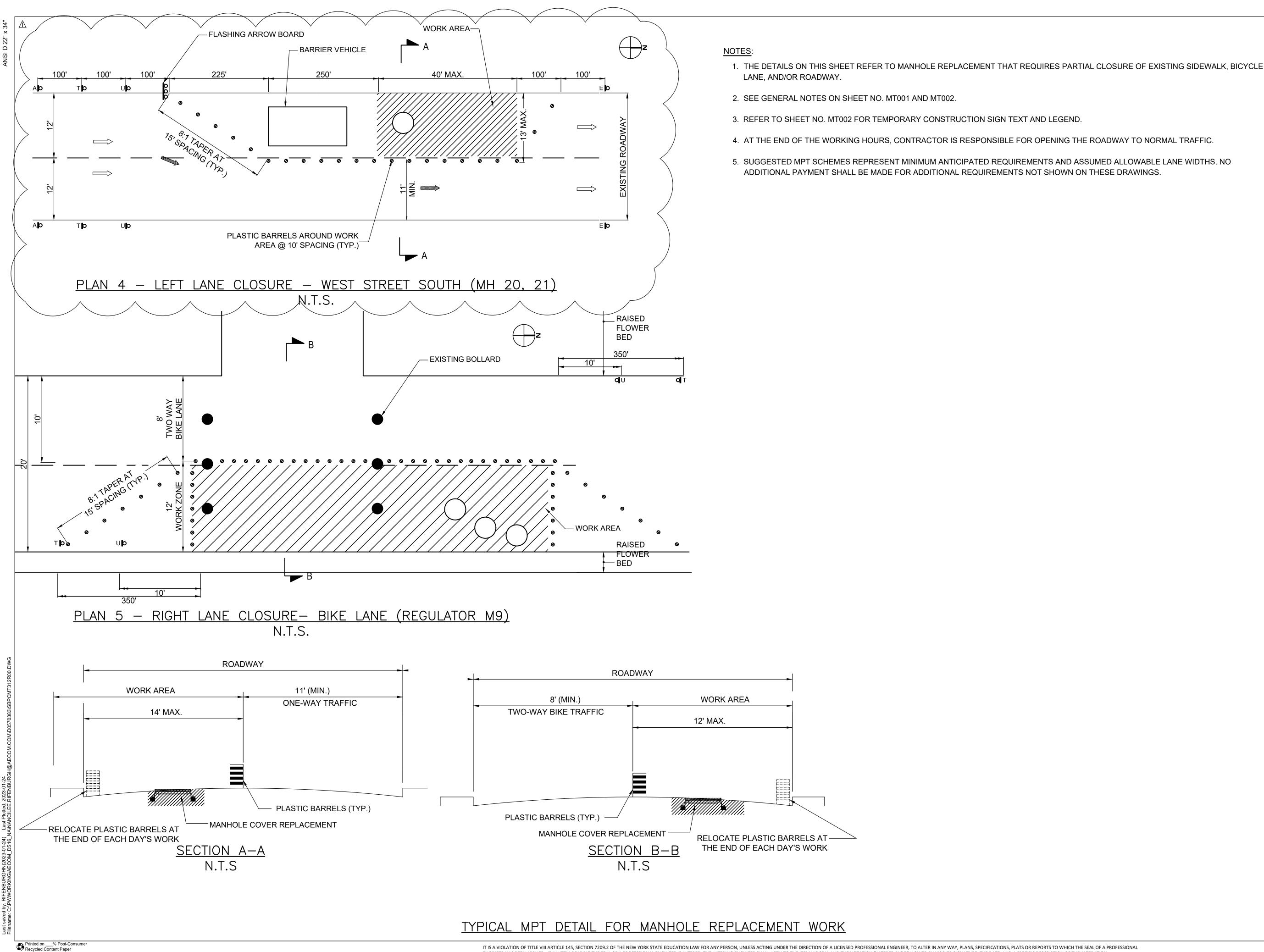
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SHEET TITLE

NEAR SURFACE ISOLATION SCHEMATIC MPT PLANS

1 OF 3 SHEET NUMBER



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Approved By:	P. BRUECK

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SHEET TITLE

NEAR SURFACE ISOLATION SCHEMATIC MPT PLANS

2 OF 3 SHEET NUMBER

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PROJECT/TERM CONTRACT NUMBER

Contract No. 18-2586

SHEET TITLE

NEAR SURFACE ISOLATION SCHEMATIC MPT PLANS

3 OF 3 SHEET NUMBER

<u>ATTACHMENT #3</u> REVISED STRUCTURAL DRAWINGS

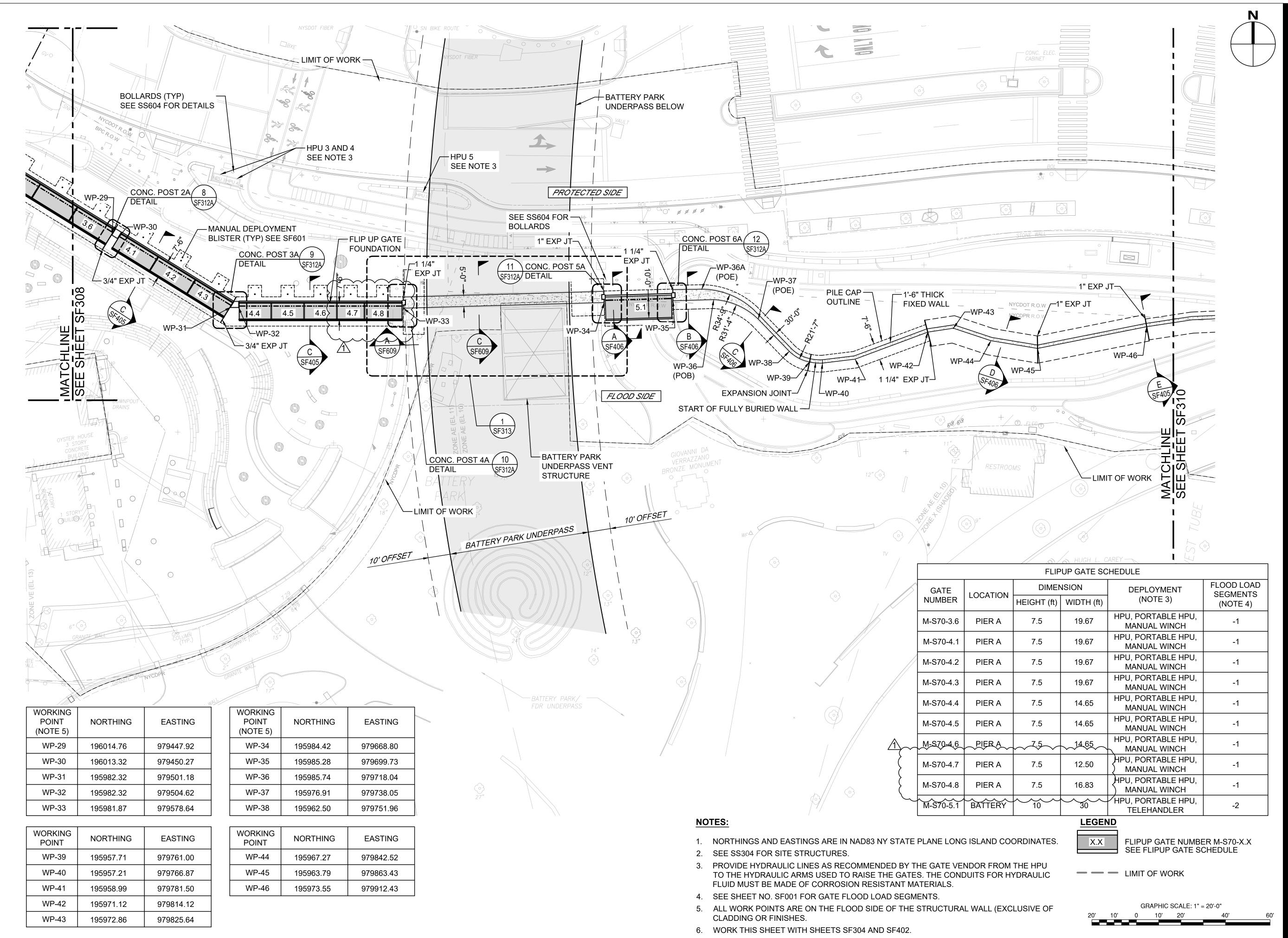
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(ATTACHED)



PROJE(

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New York, NY 10280 **CLIENT**

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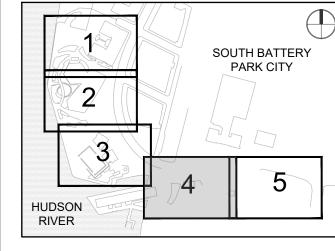
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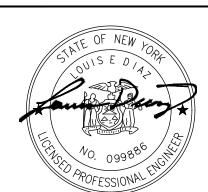
212.337.0334 thomasphifer.co
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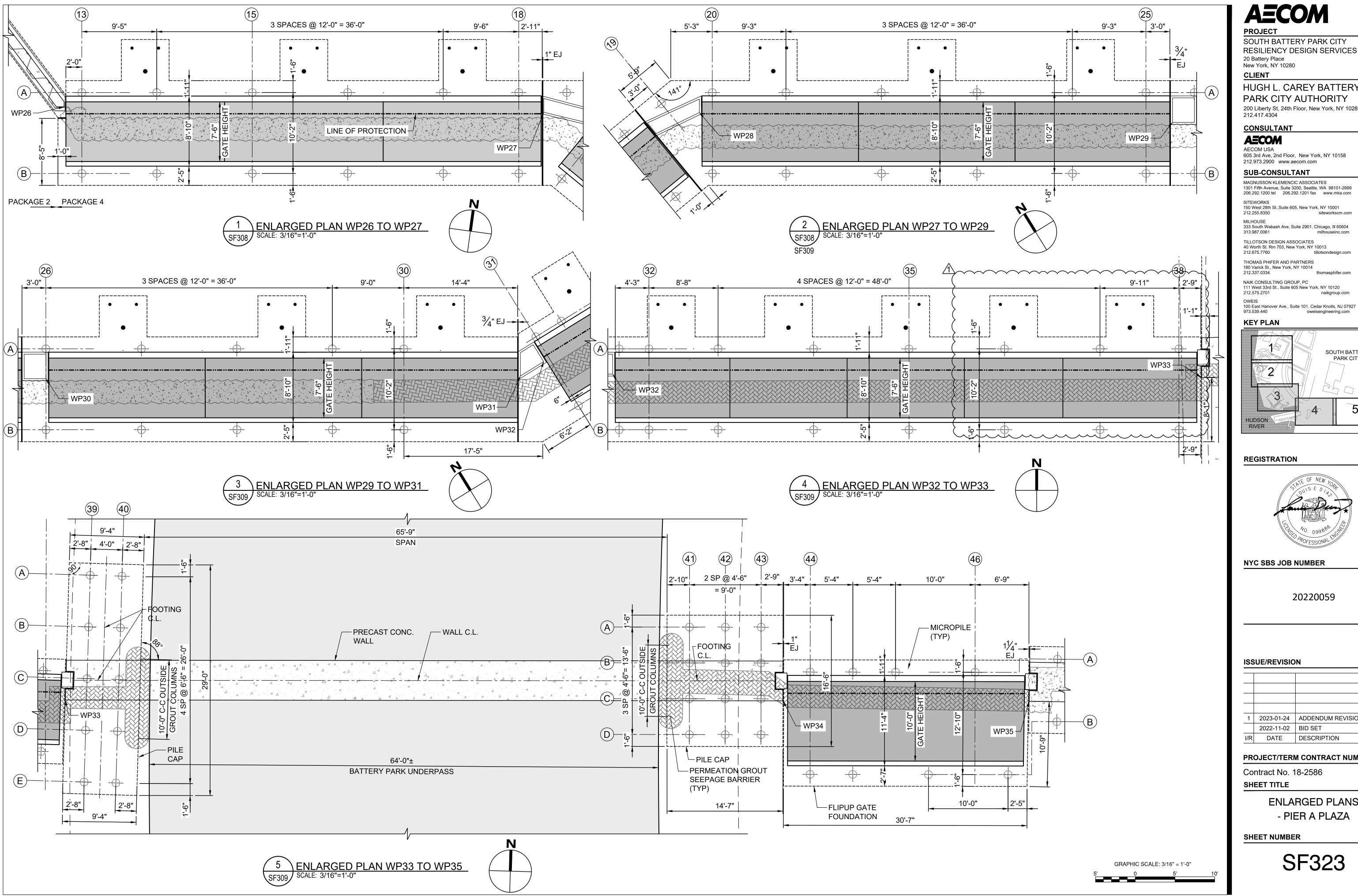
PROJECT/TERM CONTRACT NUMBER

Contract No. 18-2586
SHEET TITLE

FLOOD WALL PLAN 4 OF 5

SHEET NUMBER

SF309



PROJECT

SOUTH BATTERY PARK CITY RESILIENCY DESIGN SERVICES 20 Battery Place

New York, NY 10280 CLIENT

HUGH L. CAREY BATTERY PARK CITY AUTHORITY 200 Liberty St, 24th Floor, New York, NY 10281 212.417.4304

CONSULTANT

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605 3rd Ave, 2nd Floor, New York, NY 10158 212.973.2900 www.aecom.com

SUB-CONSULTANT

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150 West 28th St., Suite 605, New York, NY 10001

333 South Wabash Ave, Suite 2901, Chicago, Ill 60604

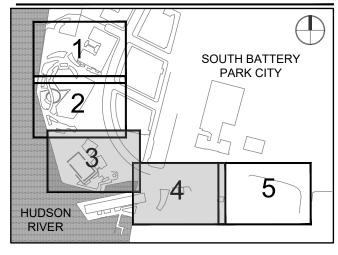
313.987.0061 TILLOTSON DESIGN ASSOCIATES

40 Worth St. Rm 703, New York, NY 10013 212.675.7760

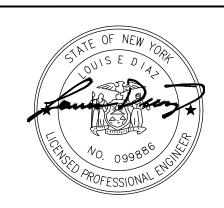
THOMAS PHIFER AND PARTNERS 180 Varick St., New York, NY 10014 212.337.0334

NAIK CONSULTING GROUP, PC 111 West 33rd St., Suite 605 New York, NY 10120

KEY PLAN



REGISTRATION



NYC SBS JOB NUMBER

20220059

ISSUE/REVISION

1	2023-01-24	ADDENDUM REVISION 1
	2022-11-02	BID SET
I/R	DATE	DESCRIPTION

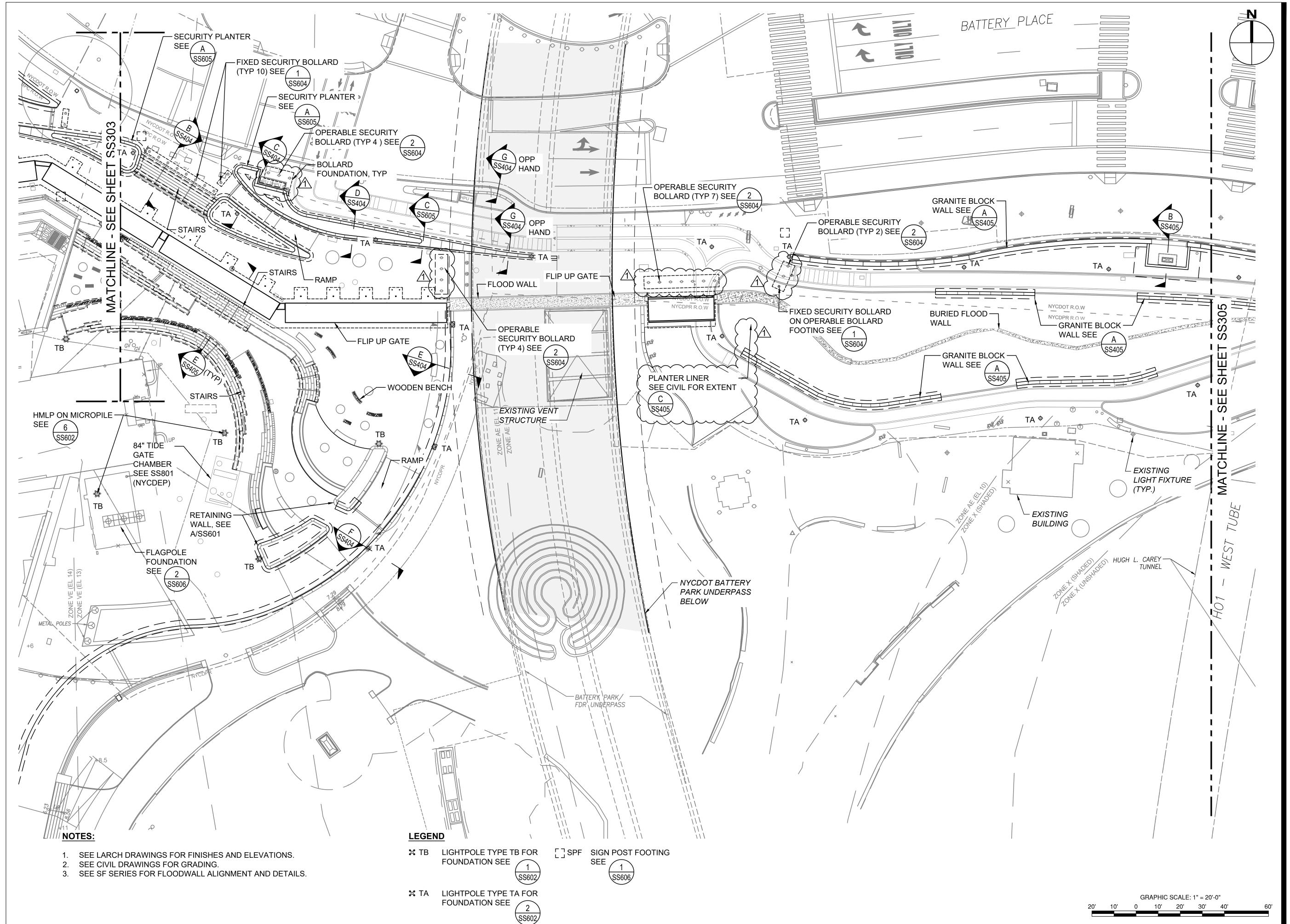
PROJECT/TERM CONTRACT NUMBER

Contract No. 18-2586 SHEET TITLE

> **ENLARGED PLANS** - PIER A PLAZA

SHEET NUMBER

SF323



SOUTH BATTERY PARK CITY RESILIENCY DESIGN SERVICES 20 Battery Place

New York, NY 10280 CLIENT

HUGH L. CAREY BATTERY PARK CITY AUTHORITY 200 Liberty St, 24th Floor, New York, NY 10281 212.417.4304

CONSULTANT

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212.255.8350

333 South Wabash Ave, Suite 2901, Chicago, III 60604 313.987.0061

TILLOTSON DESIGN ASSOCIATES 40 Worth St. Rm 703, New York, NY 10013

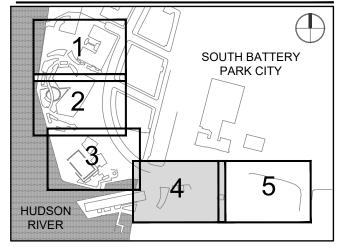
THOMAS PHIFER AND PARTNERS 180 Varick St., New York, NY 10014

212.337.0334 NAIK CONSULTING GROUP, PC 111 West 33rd St., Suite 605 New York, NY 10120

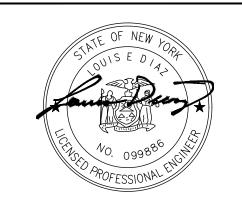
100 East Hanover Ave., Suite 101, Cedar Knolls, NJ 07927

KEY PLAN

973.539.440



REGISTRATION



NYC SBS JOB NUMBER

20220059

ISSUE/REVISION

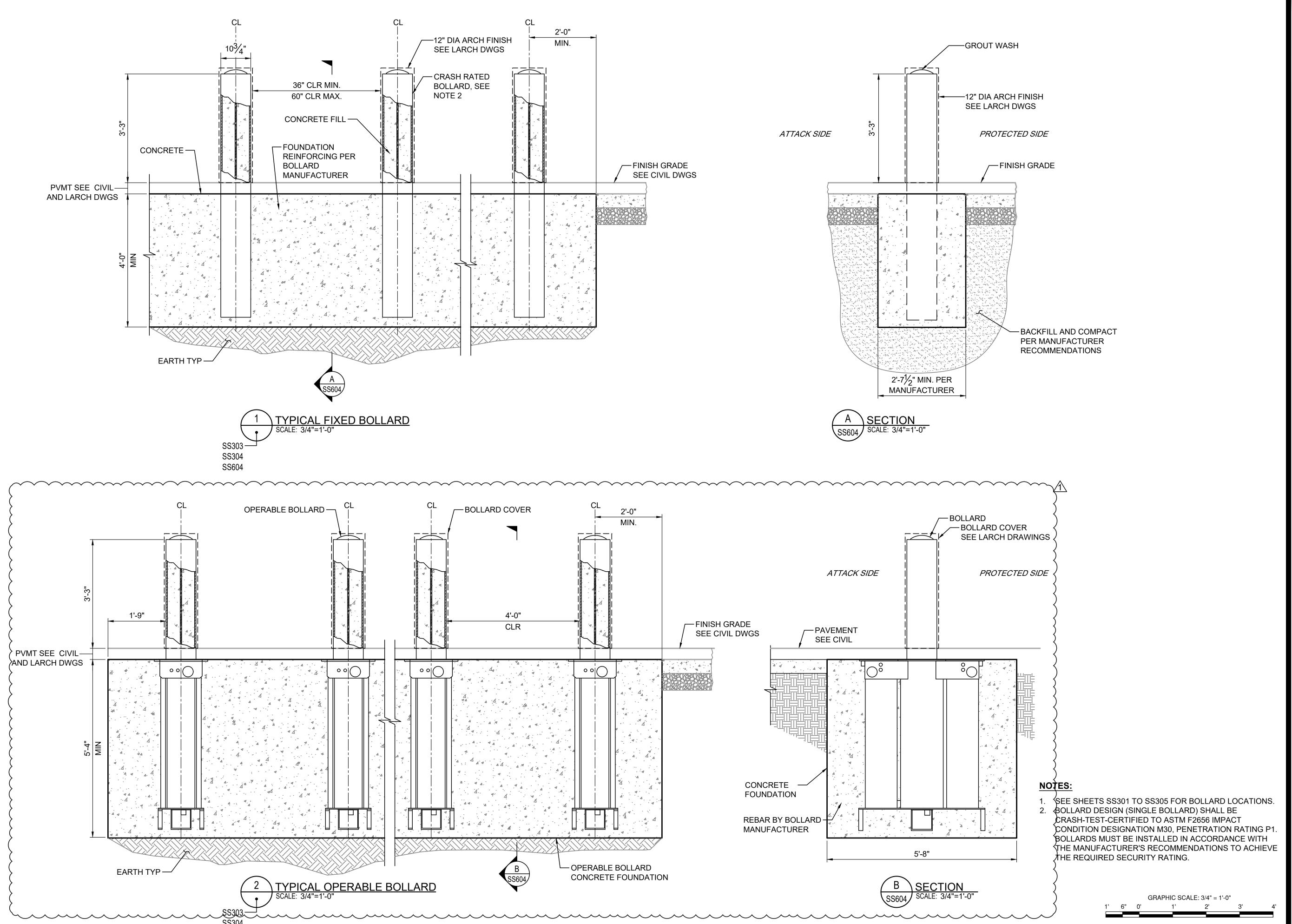
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	2022-11-02	BID SET
I/R	DATE	DESCRIPTION

PROJECT/TERM CONTRACT NUMBER

Contract No. 18-2586 **SHEET TITLE**

SITE STRUCTURES PLAN 4 OF 5

SHEET NUMBER



PROJECT

SOUTH BATTERY PARK CITY RESILIENCY DESIGN SERVICES 20 Battery Place New York, NY 10280

CLIENT

HUGH L. CAREY BATTERY PARK CITY AUTHORITY 200 Liberty St, 24th Floor, New York, NY 10281 212.417.4304

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MILHOUSE

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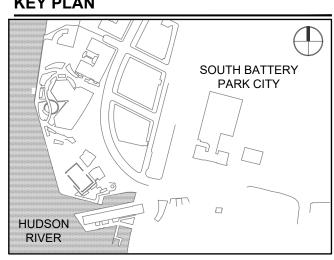
TILLOTSON DESIGN ASSOCIATES 40 Worth St. Rm 703, New York, NY 10013 212.675.7760

THOMAS PHIFER AND PARTNERS 180 Varick St., New York, NY 10014 212.337.0334

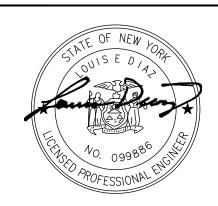
NAIK CONSULTING GROUP, PC 111 West 33rd St., Suite 605 New York, NY 10120

100 East Hanover Ave., Suite 101, Cedar Knolls, NJ 07927 973.539.440

KEY PLAN



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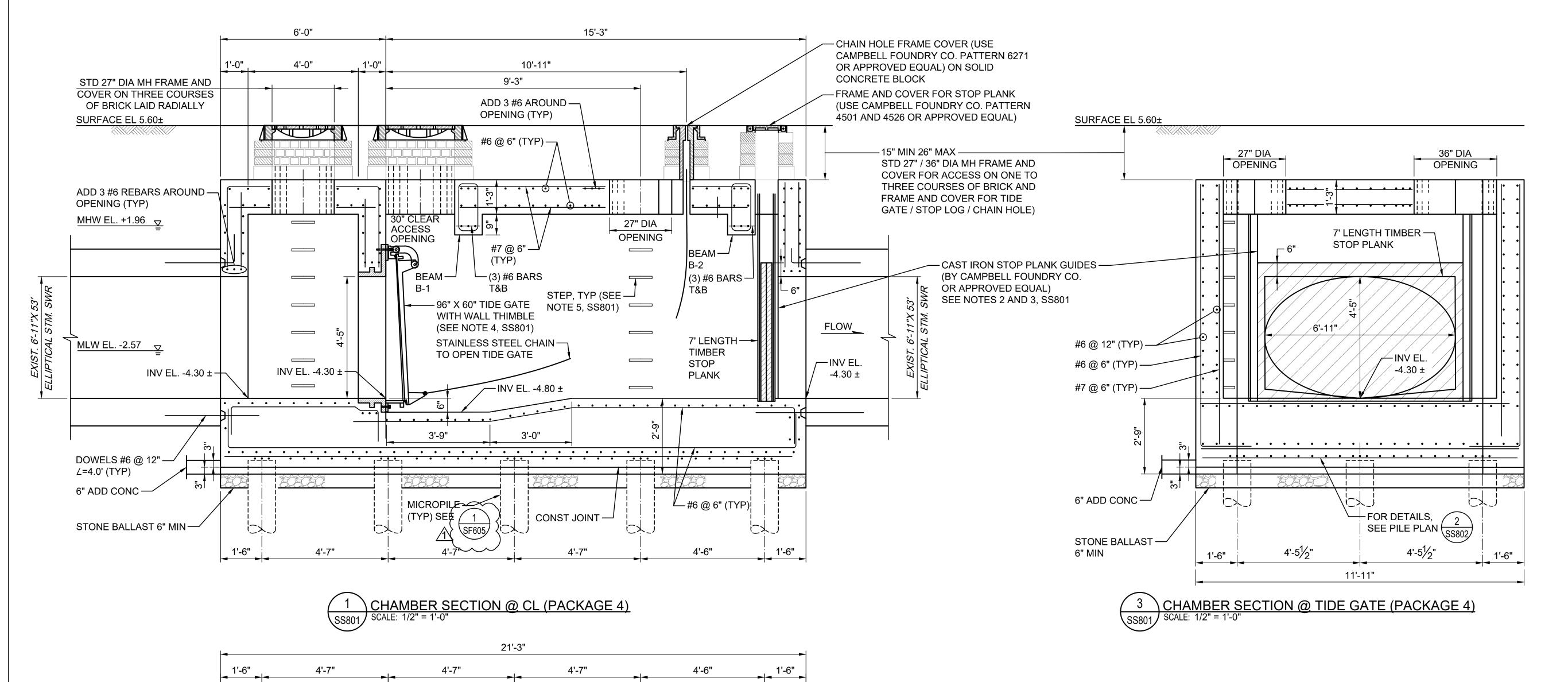
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I/R	DATE	DESCRIPTION

PROJECT/TERM CONTRACT NUMBER

Contract No. 18-2586 **SHEET TITLE**

> SECURITY BOLLARD **DETAILS**

SHEET NUMBER



#6 @ 6" MAX BETWEEN PILES

-#6 @ 3" (TYP)

AECOM

PROJECT

SOUTH BATTERY PARK CITY RESILIENCY DESIGN SERVICES 20 Battery Place

New York, NY 10280 CLIENT

HUGH L. CAREY BATTERY
PARK CITY AUTHORITY
200 Liberty St, 24th Floor, New York, NY 10281

CONSULTANT

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MILHOUSE 333 South Wabash Ave, Suite 2901, Chicago, III 60604

TILLOTSON DESIGN ASSOCIATES
40 Worth St. Rm 703, New York, NY 10013

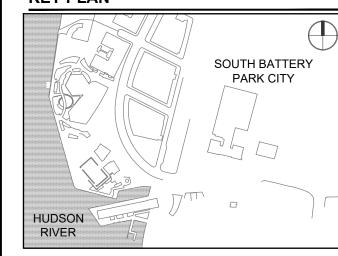
THOMAS PHIFER AND PARTNERS

180 Varick St., New York, NY 10014 212.337.0334 thomasphifer.co

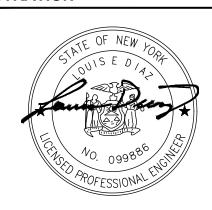
NAIK CONSULTING GROUP, PC 111 West 33rd St., Suite 605 New York, NY 10120

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KEY PLAN



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20220059

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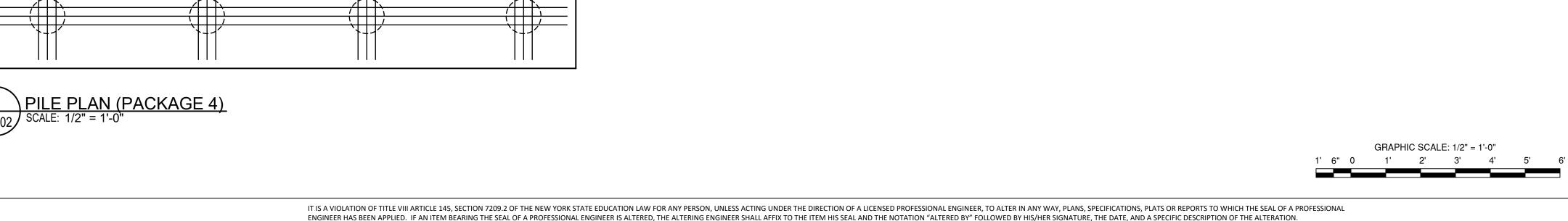
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I/R	DATE	DESCRIPTION

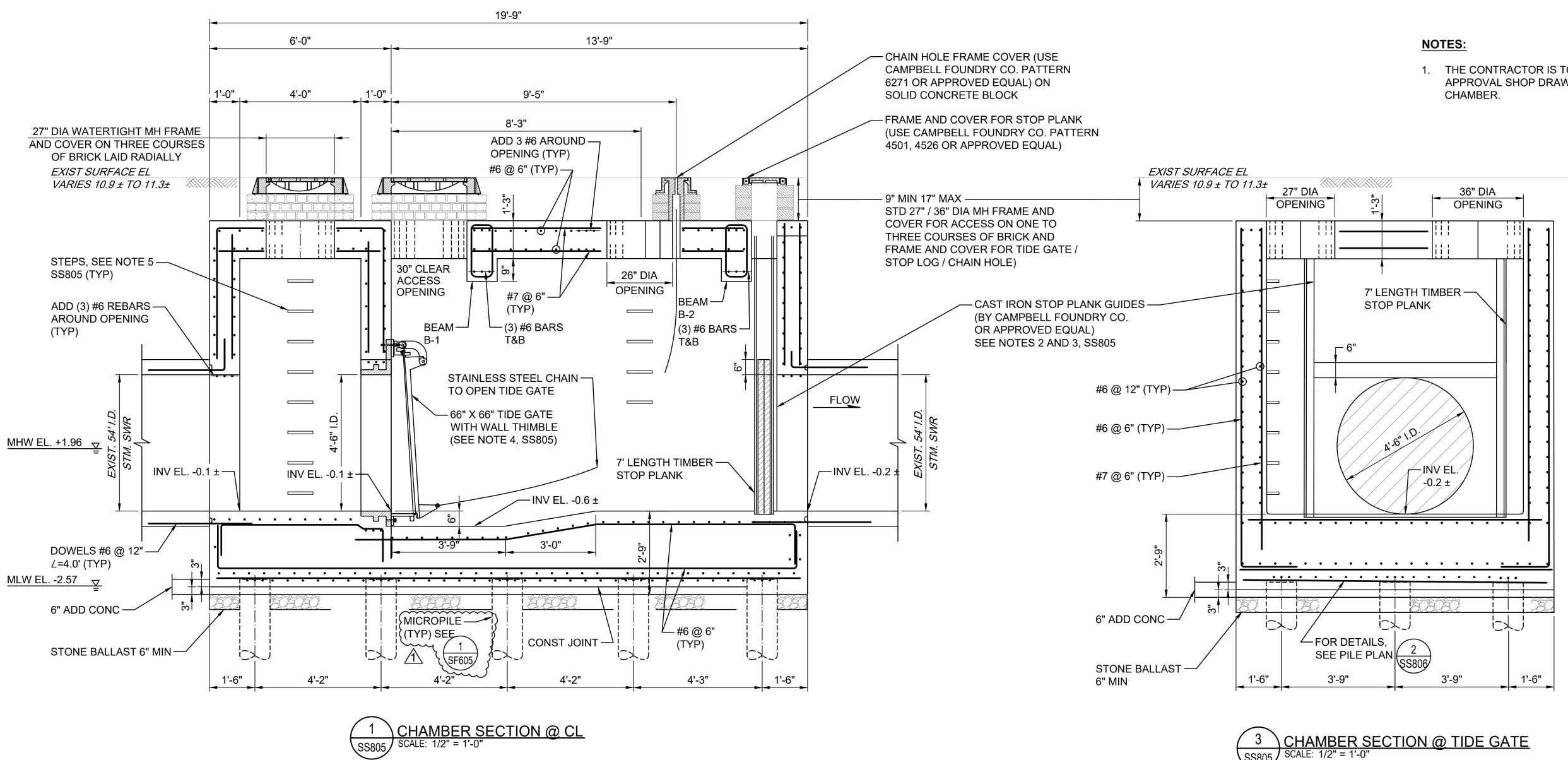
PROJECT/TERM CONTRACT NUMBER

Contract No. 18-2586
SHEET TITLE

84-INCH TIDE GATE DETAILS (PIER A PLAZA) 2 OF 2

SHEET NUMBER





19'-9"

4'-2"

4'-3"

#6 @ 3" (TYP) —

4'-2"

-#6 @ 6" MAX BETWEEN PILES

4'-2"

1. THE CONTRACTOR IS TO SUBMIT FOR REVIEW AND APPROVAL SHOP DRAWINGS OF THE NEW TIDE GATE

CONSULTANT

212.417.4304

20 Battery Place New York, NY 10280

CLIENT

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SOUTH BATTERY PARK CITY

RESILIENCY DESIGN SERVICES

HUGH L. CAREY BATTERY

200 Liberty St, 24th Floor, New York, NY 10281

PARK CITY AUTHORITY

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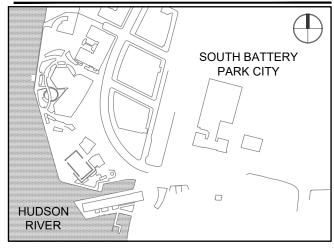
40 Worth St. Rm 703, New York, NY 10013

THOMAS PHIFER AND PARTNERS 180 Varick St., New York, NY 10014 212.337.0334

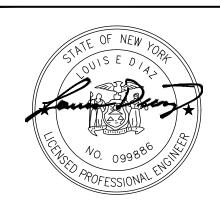
NAIK CONSULTING GROUP, PC 111 West 33rd St., Suite 605 New York, NY 10120

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KEY PLAN



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20220059

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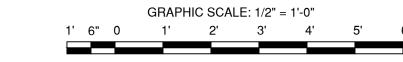
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I/R	DATE	DESCRIPTION

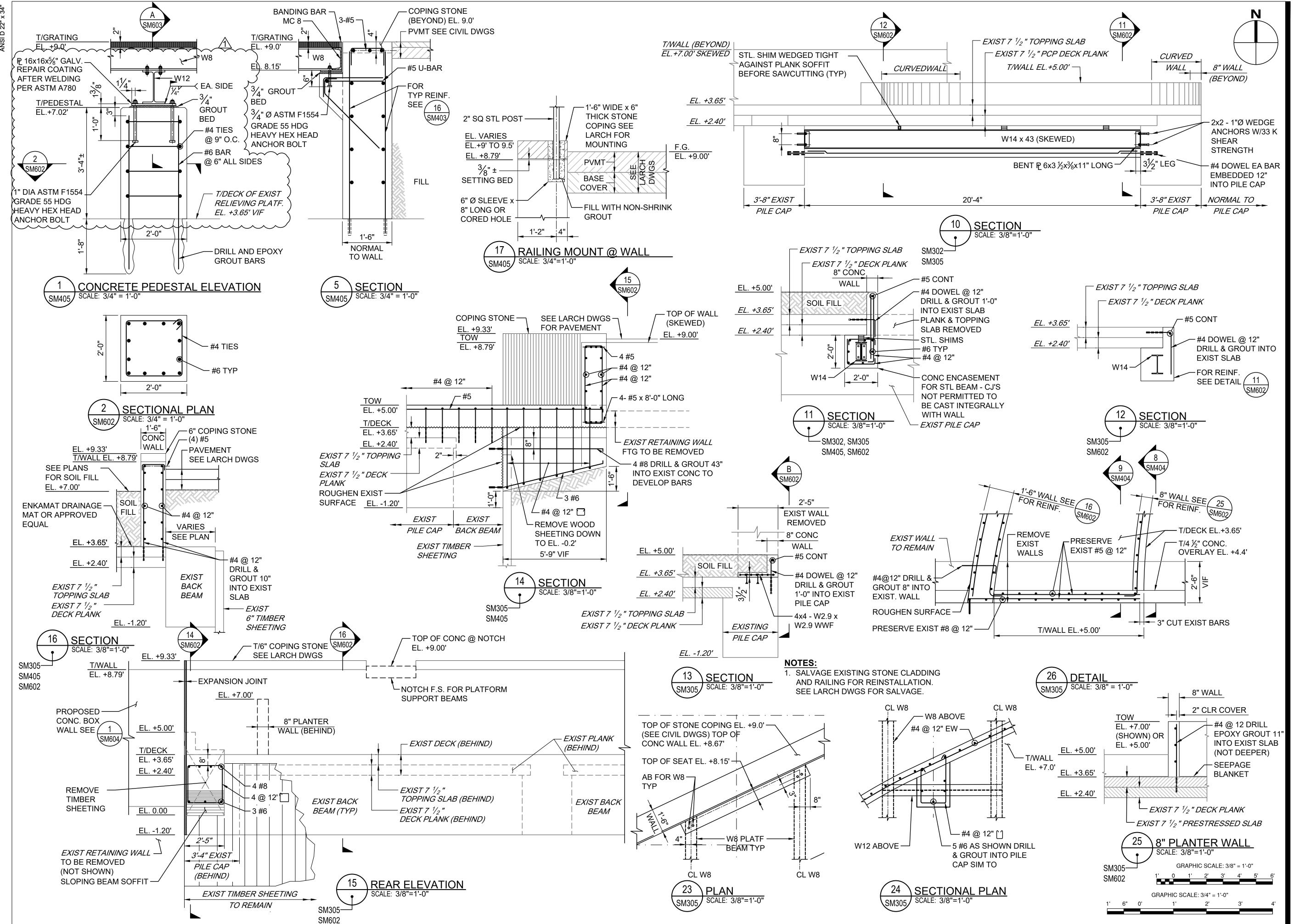
PROJECT/TERM CONTRACT NUMBER

Contract No. 18-2586 SHEET TITLE

54-INCH TIDE GATE DETAILS (RECTOR PLACE) 2 0F 2

SHEET NUMBER





PROJEC

SOUTH BATTERY PARK CITY
RESILIENCY DESIGN SERVICES
20 Battery Place

New York, NY 10280 **CLIENT**

HUGH L. CAREY BATTERY
PARK CITY AUTHORITY
200 Liberty St, 24th Floor, New York, NY 10281
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212.255.8350 siteworkscm

333 South Wabash Ave, Suite 2901, Chicago, Ill 60604 313.987.0061 milhouseinc.com

TILLOTSON DESIGN ASSOCIATES

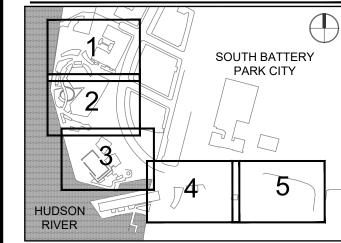
40 Worth St. Rm 703, New York, NY 10013 212.675.7760 tillotsondesign.com THOMAS PHIFER AND PARTNERS

180 Varick St., New York, NY 10014 212.337.0334 thomasphifer.com

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KEY PLAN



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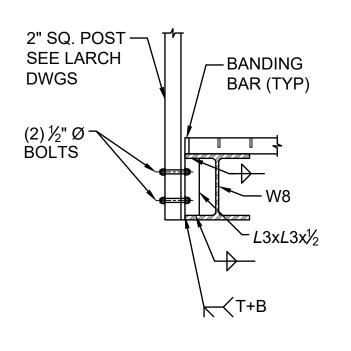
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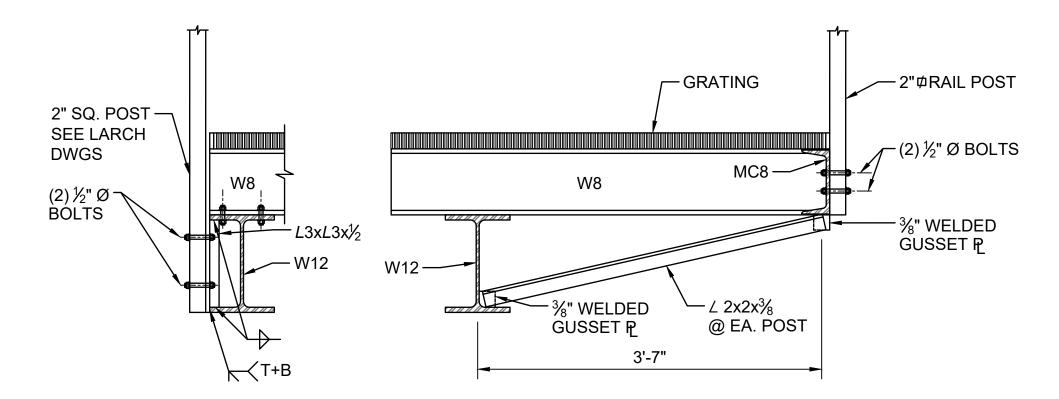
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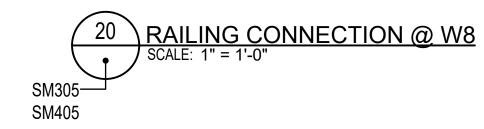
PIER A INLET PLATFORM CONCRETE DETAILS

SHEET NUMBER

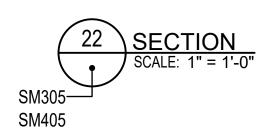
SM602

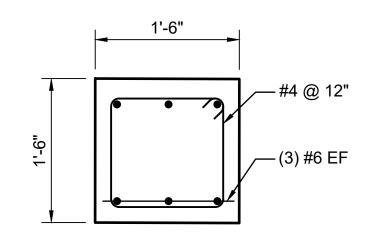












B CONCRETE STRUT DETAIL
SM405 SCALE: 1" = 1'-0"

GRAPHIC SCALE: 1" = 1'-0"

1' 6" 0' 1' 2' 3



PROJECT

SOUTH BATTERY PARK CITY RESILIENCY DESIGN SERVICES 20 Battery Place

New York, NY 10280

CLIENT

HUGH L. CAREY BATTERY PARK CITY AUTHORITY

200 Liberty St, 24th Floor, New York, NY 10281 212.417.4304

CONSULTANT

AECOM

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212.255.8350 siteworkscm.com MILHOUSE 333 South Wabash Ave, Suite 2901, Chicago, III 60604

313.987.0061 milhouseinc.com
TILLOTSON DESIGN ASSOCIATES

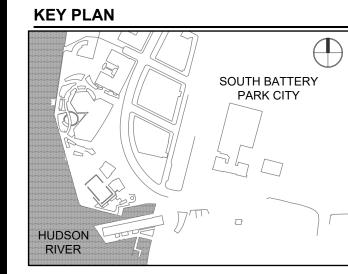
40 Worth St. Rm 703, New York, NY 10013 212.675.7760 tillotsondesign.c

THOMAS PHIFER AND PARTNERS
180 Varick St., New York, NY 10014

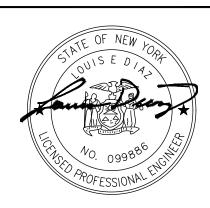
212.337.0334 thomasphifer.co

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PROJECT/TERM CONTRACT NUMBER

Contract No. 18-2586
SHEET TITLE

PIER A INLET PLATFORM FRAMING DETAILS

SHEET NUMBER

SM603

T/DECK

₽16x16 —

T/PEDESTAL

1" DIA ANCHOR BOLT —

EL. +7.02

— 2" THICK BAR

 $-\frac{3}{4}$ " GROUT BED

GRATING

2'-0"

A FRAMING SECTION

SM602 SCALE: 1" = 1'-0"

ATTACHMENT #4 REVISED LANDSCAPE DRAWINGS

L325: Pier A Inlet Soil Plan L332: Pier A Inlet Planting - Shrubs L334: Pier A Inlet Planting - Herbaceous L339: Pier A Master Planting Schedule - 1

(ATTACHED)



PRC

SOUTH BATTERY PARK CITY RESILIENCY DESIGN

SERVICES

CLIENT

HUGH L. CAREY

BATTERY PARK CITY AUTHORITY

CONSULTANT

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TILLOTSON DESIGN ASSOCIATES

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THOMAS PHIFER AND PARTNERS

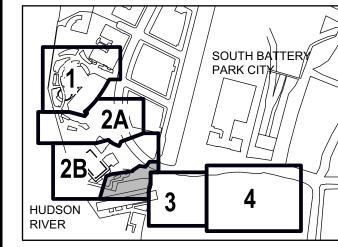
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180 Varick St.,New York, NY 10014 212.337.0334 thomasphifer.com

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KEY PLAN



REGISTRATION



NYC SBS JOB NUMBER

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	I	2022-11-11	BID SET
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PROJECT/TERM CONTRACT NUMBER

Contract No. 18-2586
SHEET TITLE

PIER A INLET SOIL PLAN

SHEET NUMBER

L-325.00

PAGE NUMBER OF

PROJI

SOUTH BATTERY PARK CITY RESILIENCY DESIGN

SERVICES

CLIENT

HUGH L. CAREY

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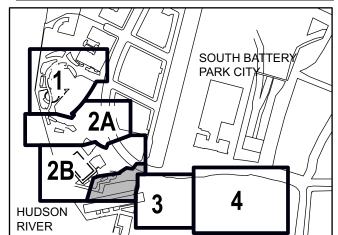
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973 539 440 oweisengineering.com

KEY PLAN



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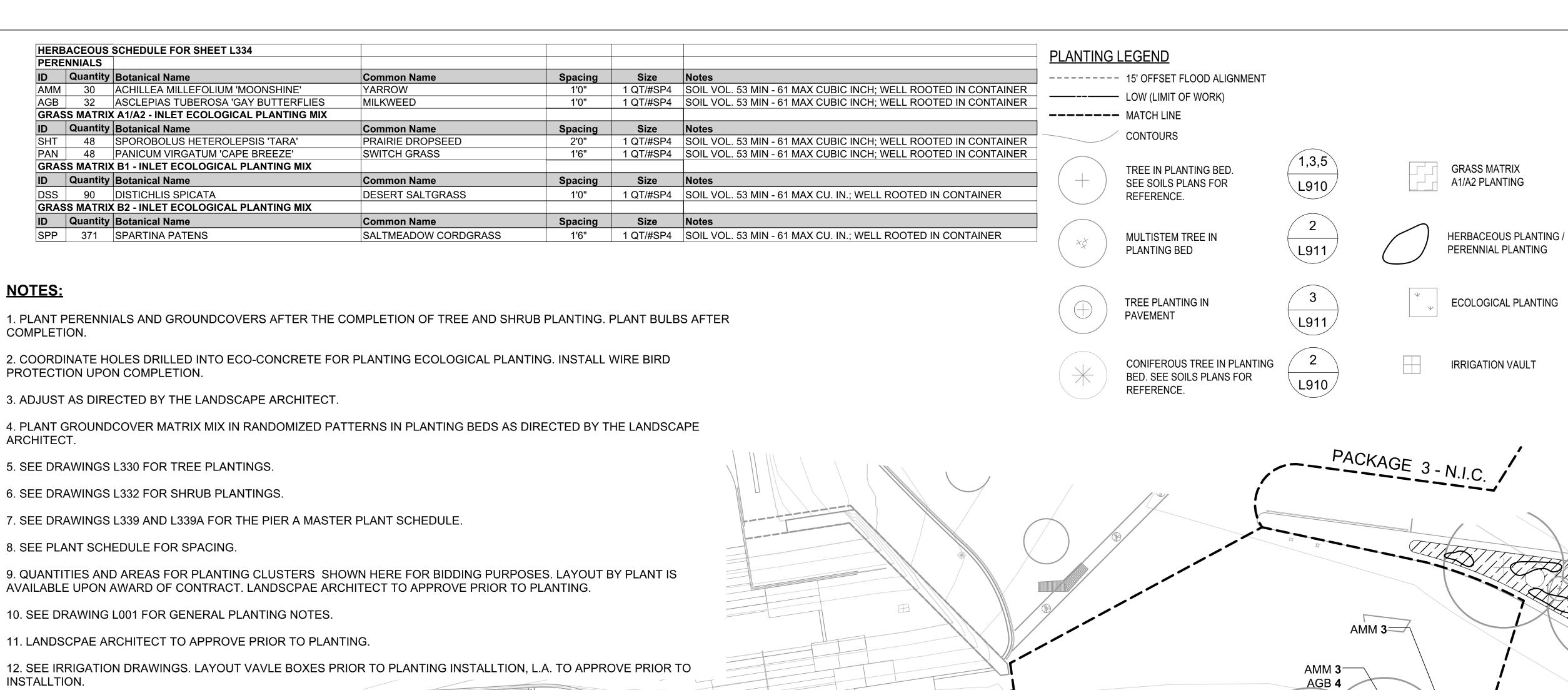
Contract No. 18-2586 SHEET TITLE

PIER A INLET PLANTING PLAN - SHRUBS

SHEET NUMBER

PAGE NUMBER

L-332.00



9. QUANTITIES AND AREAS FOR PLANTING CLUSTERS SHOWN HERE FOR BIDDING PURPOSES. LAYOUT BY PLANT IS AVAILABLE UPON AWARD OF CONTRACT, LANDSCPAE ARCHITECT TO APPROVE PRIOR TO PLANTING. 10. SEE DRAWING L001 FOR GENERAL PLANTING NOTES. 11. LANDSCPAE ARCHITECT TO APPROVE PRIOR TO PLANTING. 12. SEE IRRIGATION DRAWINGS. LAYOUT VAVLE BOXES PRIOR TO PLANTING INSTALLTION, L.A. TO APPROVE PRIOR TO INSTALLTION. GRASS MATRIX A1/A2 -SHT **15** AGB 4 PAN **15** AMM 3 AGB 3 AGB 3 AGB 3 SPP 28 _SPP **12 GRASS MATRIX A1/A2** SPP **28** SHT **14** PAN **14** HUDSON -SPP 12 - GRASS MATRIX B1/B2 DSS **90 ECOLOGICAL PLANTING** -SPP **12** SPP **255** _SPP **12** - GRASS MATRIX A1/A2 SHT **10** PAN **10**

PIER A INLET PLANTING PLAN - HERBACEOUS

GRAPHIC SCALE: 1" = 10'-0"

AECOM

SOUTH BATTERY PARK CITY RESILIENCY DESIGN

SERVICES

CLIENT

HUGH L. CAREY

CONSULTANT

GRASS MATRIX

A1/A2 PLANTING

IRRIGATION VAULT

L918

AECOM

605 3rd Ave, 2nd Floor, New York, NY 10158 212.973.2900 tel www.aecom.com

BATTERY PARK CITY AUTHORITY

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TILLOTSON DESIGN ASSOCIATES 40 Worth St. Rm 703, New York, NY 10013

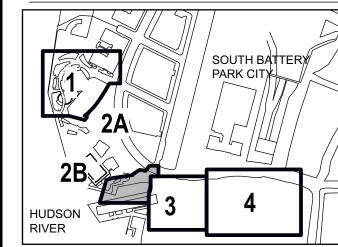
THOMAS PHIFER AND PARTNERS 180 Varick St., New York, NY 10014

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KEY PLAN



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PROJECT/TERM CONTRACT NUMBER

Contract No. 18-2586 **SHEET TITLE**

PIER A INLET PLANTING -**HERBACEOUS**

SHEET NUMBER

L-334.00

PIER A PLANTING	S SCHEDIII E					
DECIDUOUS TRE						
ID	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTES
AGF	2	ACER GINNALA 'FLAME'	AMUR MAPLE	8'-10' HT.	B&B	MULTISTEM SPECIMEN, MIN. 3 TRUNKS
CO	5	CELTIS OCCIDENTALIS	HACKBERRY	2 1/2" -3" CAL.	B&B	
CC	1	CERCIS CANADENSIS	EASTERN REDBUD	8'-10' HT.	B&B	MULTISTEM SPECIMEN, MIN. 3 TRUNKS
CR	1	CORNUS X RUTGAM	STELLAR PINK HYBRID DOGWOOD	10'-12' HT.	B&B	UPRIGHT MULTISTEM SPECIMEN, MIN. 3 TRUNKS
GTS	10	GLEDITSIA TRIACANTHOS INERMIS 'DRAVES'	STREET KEEPER HONEY LOCUST	2 1/2"-3" CAL.	B&B	LIMB TO 5' FROM FINISH GRADE
GTI	5	GLEDITSIA TRIACANTHOS INERMIS 'SKYCOLE'	SKYLINE HONEY LOCUST	3"-3 1/2" CAL.	B&B	LIMB TO 7' FROM FINISH GRADE
GD	3	GYMNOCLADUS DIOICUS 'ESPRESSO'	KENTUCKY COFFEE TREE	3"-3-1/2" CAL.	B&B	LIMB TO 7' FROM FINISH GRADE
UF	4	ULMUS X FRONTIER	ELM	3"-3 1/2" CAL.	B&B	LIMB TO 6' FROM FINISH GRADE
CONIFEROUS TR						
ID	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTES
PR	2	PINUS RIGIDA	PITCH PINE	10'-12' HT.	B&B	
DECIDUOUS SHR						110-7-0
ID	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTES
AMG	34	ARONIA MELANOCARPA 'GROUND HOG'	BLACK CHOKEBERRY	12"-15" HT. / SPR.	#3	
BAH	19	BACCHARIS HALIMIFOLIA	GROUNDSEL BUSH	2'-4' HT.	2 GAL.	
CP CS /	1 2	COMPTONIA PEREGRINA CORNUS SANGUINEA 'MIDWINTER FIRE'	SWEET FERN BLOODTWIG DOGWOOD	2'-2.5' HT. / SPR. 5'-6' HT.	#2B B&B	
CSA /	16	CORNUS SERICEA ARCTIC FIRE 'RED'	RED TWIG DOGWOOD	18"-24" HT.	#7	
FG	3	FOTHERGILLA GARDENII 'MT. AIRY'	MT. AIRY FOTHERGILLA	30"-36" HT. / SPR.	#7 #7 CONT.	
HQP	6	HYDRANGEA QUERCIFOLIA 'PEE WEE'	PEE WEE OAKLEAF HYDRANGEA	24" HT.	B&B	
IVJ	1	ILEX VERTICILATA 'JIM DANDY'	WINTERBERRY	18"-24"' HT.	3 GAL.	
IVA	29	IVA FRUTESCENS	MARSH ELDER	2'-10' HT.	2 GAL.	
IVF	4	ILEX VERTICILATA 'WINTER RED'	WINTER RED WINTERBERRY	5'-6' HT.	B&B	
RA /	1	RHUS AROMATICA 'GRO-LO'	GRO-LOW SUMAC	18"-24" WIDE	#3 CONT.	
EVERGREEN SHE	RUBS					
ID	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTES
IG	6	ILEX GLABRA 'COMPACTA'	COMPACT INKBERRY	30"-36"	#7 CONT.	
PERENNIALS						
ID	QUANTITY	BOTANICAL NAME	COMMON NAME	SPACING	SIZE	NOTES
ACT	27	ASTILBE CHINENSIS VAR. TAQUETII 'PURPURLANZ'	PURPLE LANCE ASTILBE	1'0"	#1 CONT.	WELL ROOTED IN CONTAINER
ADI	56	ASTER DIVARICATUS 'EASTERN STAR'	WHITE WOOD ASTER	1'0"	1 QT/#SP4	SOIL VOL. 53 MIN - 61 MAX CU. IN.; WELL ROOTED IN CONTAINER
AMM	30	ACHILLEA MILLEFOLIUM 'MOONSHINE'	YARROW	1'0"	1 QT/#SP4	SOIL VOL. 53 MIN - 61 MAX CUBIC INCH; WELL ROOTED IN CONTAINER
				-		·
AGB	32	ASCLEPIAS TUBEROSA 'GAY BUTTERFLIES	MILKWEED	1'0"	1 QT/#SP4	SOIL VOL. 53 MIN - 61 MAX CUBIC INCH; WELL ROOTED IN CONTAINER
AHU	60	AMSONIA HUBRICHTII	ARKANSAS BLUE STAR	1'6"	1 QT/#SP4	SOIL VOL. 53 MIN - 61 MAX CU. IN.; WELL ROOTED IN CONTAINER
ATJ	20	ASTER TARTARICA 'JINDAI'	JINDAI TARTARIAN ASTER	1'0"	1 QT/#SP4	SOIL VOL. 53 MIN - 61 MAX CU. IN.; WELL ROOTED IN CONTAINER
EDL	30	EUPATORIUM DUBIUM 'LITTLE JOE'	LITTLE JOE PYE WEED	1'0"	1 QT/#SP4	SOIL VOL. 53 MIN - 61 MAX CU. IN.; WELL ROOTED IN CONTAINER
GTB	20	GENTIANA 'TRUE BLUE'	BOTTLED GENTIAN	1'0"	1 QT/#SP4	SOIL VOL. 53 MIN - 61 MAX CU. IN.; WELL ROOTED IN CONTAINER
HAD	27	HEUCHARA AMERICANA 'DALE'S STRAIN'	AMERICAN CORAL BELLS	1'0"	1 QT/#SP4	SOIL VOL. 53 MIN - 61 MAX CU. IN.; WELL ROOTED IN CONTAINER
HLO	47	HEUCHARA LONGIFLORA	LONGFLOWER ALUMROOT	1'0"	1 QT/#SP4	SOIL VOL. 53 MIN - 61 MAX CU. IN.; WELL ROOTED IN CONTAINER
HPI	6	HELLEBORUS 'PARIS IN PINK'	LENTEN ROSE	1'0"	1 QT/#SP4	SOIL VOL. 53 MIN - 61 MAX CU. IN.; WELL ROOTED IN CONTAINER
HVA	27	HEUCHERA VILLOSA 'AUTUMN BRIDE'	AUTUMN BRIDE ALUMROOT	1'0"	#1 CONT	WELL ROOTED IN CONTAINER
				-		
MCO	27	MEEHANIA CORDATA	CREEPING MINT	1'0"	1 QT/#SP4	SOIL VOL. 53 MIN - 61 MAX CU. IN.; WELL ROOTED IN CONTAINER
NSS	38	NEPETA SIBERICA 'SOUVENIR D'ANDRE'	SOUVENIR D'ANDRE CATMINT	1'0"	1 QT/#SP4	SOIL VOL. 53 MIN - 61 MAX CU. IN.; WELL ROOTED IN CONTAINER
PAM	42	PHLOX AMPIFOLIA 'GOLIATH'	GOLIATH PHLOX	1'0"	1 QT/#SP4	SOIL VOL. 53 MIN - 61 MAX CU. IN.; WELL ROOTED IN CONTAINER
PAP	29	PACHYSANDRA PROCUMBENS	ALLEGHENY SPURGE	8"	1 QT/#SP4	SOIL VOL. 53 MIN - 61 MAX CU. IN.; WELL ROOTED IN CONTAINER
SAN	24	SANGUISORBA TANNA	GREATER BURNET	1'0"	1 QT/#SP4	SOIL VOL. 53 MIN - 61 MAX CU. IN.; WELL ROOTED IN CONTAINER
SAU	47	SESLERIA AUTUMNALIS	AUTUMN MOOR GRASS	1'3"	1 QT/#SP4	SOIL VOL. 53 MIN - 61 MAX CU. IN.; WELL ROOTED IN CONTAINER
	+		SMOOTH ASTER	1'0"	1 QT/#SP4	SOIL VOL. 53 MIN - 61 MAX CU. IN.; WELL ROOTED IN CONTAINER
ISLB	24	15YMPHYUTRICHUM LAEVE BLUEBIRD	ISINICULITABLEN	1 1 1 1		
SLB SOH	24	SYMPHYOTRICHUM LAEVE 'BLUEBIRD' STACHYS OFFICINALIS 'HUMMELO'			-,	·
SLB SOH SSI	24 22 53	STACHYS OFFICINALIS 'HUMMELO' SPODIOPOGON SIBIRICUS	HUMMELO COMMON BETONY FROST GRASS	1'0" 1'0"	#1 CONT. 1 QT/#SP4	WELL ROOTED IN CONTAINER SOIL VOL. 53 MIN - 61 MAX CU. IN.; WELL ROOTED IN CONTAINER

NOTES:

1. CONTRACTOR TO CONFIRM PLANTS ARE AVAILABLE AT TIME OF PLANTING IN QUANTITIES REQUIRED, PROVIDE NECESSARY REVIEW MATERIAL AS REQUIRED BY THE SPECS FOR ALL PLANT MATERIAL LISTED.

2. SEE PLANTING PLANS FOR LAYOUT BY AREAS OR PLANTING BED. COORDINATE WITH LANDSCAPE ARHCITECT PRIOR TO INSTALL.

AECOM

PROJECT

SOUTH BATTERY PARK CITY RESILIENCY DESIGN

SERVICES

CLIENT

HUGH L. CAREY

BATTERY PARK CITY AUTHORITY

CONSULTANT

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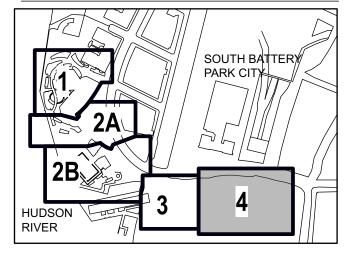
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KEY PLAN

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REGISTRATION



NYC SBS JOB NUMBER

20220059

ISSUE/REVISION

	1	2023-01-25	ADDENDUM REVISION
	I	2022-11-11	BID SET
	I/R	DATE	DESCRIPTION

PROJECT/TERM CONTRACT NUMBER

Contract No. 18-2586

SHEET TITLE

PIER A MASTER PLANTING SCHEDULE - 1

SHEET NUMBER

L-339.00

<u>ATTACHMENT #5</u> REVISED CIVIL DRAWING

C002: General Notes and Notes

(ATTACHED)

GENERAL NOTES:

- NOTES CONTAINED HEREIN APPLY TO C SERIES SHEETS. SEE G SERIES SHEETS FOR INFORMATION PERTAINING TO PROJECT SPECIFIC GENERAL INFORMATION AND NON-C SERIES SHEETS.
- 2. WORK SHALL CONFORM TO THE NEW YORK CITY (NYC) BUILDING CODE, THE NYC DRAFT STORMWATER MANAGEMENT PROGRAM PLAN (2018), NYC DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) SEWER DESIGN STANDARDS, NYC DEP WATER MAIN DESIGN STANDARDS, AND THE NYC PLUMBING CODE STANDARDS. CONTRACTOR SHALL MAINTAIN A COPY OF THESE DOCUMENTS ON-SITE DURING CONSTRUCTION.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR TRAFFIC CONTROL DURING CONSTRUCTION.
- 4. THE CONTRACTOR SHALL CONTACT DIG SAFELY NEW YORK 811(1-800-272-4480) A MINIMUM OF THREE DAYS PRIOR TO ANY EXCAVATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE SERVICES OF A PROFESSIONAL UNDERGROUND UTILITY LOCATION SERVICE TO LOCATE AND MAINTAIN MARKINGS THAT INDICATE LOCATIONS OF UNDERGROUND UTILITIES IN THE CONSTRUCTION AREA.
- 5. EXISTING DEP UTILITIES SHALL BE VERIFIED IN THE FIELD PRIOR TO COMMENCEMENT OF ANY PROPOSED WORK/FLOOD WALL AND PILE INSTALLATION. SANITARY, CSO, AND STORM SEWER OUTFALLS AND DEP PIPES WITHIN THE PROJECT LIMITS SHALL BE CLEANED AND TELEVISED (CCTV INSPECTIONS) BOTH PRIOR TO AND AFTER CONSTRUCTION IN ACCORDANCE WITH DEP CSI (COLLECTION SYSTEM INVESTIGATION) STANDARDS. CONTRACTOR SHALL COORDINATE WITH DEP CSI BEFORE PERFORMING CCTV OF THE SEWERS. PLEASE CONTACT TERRANCE BROCK (TBROCK@DEP.NYC.GOV). REPORTS OF INSPECTION SHALL BE SUBMITTED TO DEP FOR REVIEW. DEP INFRASTRUCTURE IMPACTED BY CONTRACTOR SHALL BE REPLACED/RELOCATED IN ACCORDANCE WITH DEP REQUIREMENTS.
- 6. FLOOD ALIGNMENT PROVIDED HEREIN FOR REFERENCE ONLY. NOTE THAT PORTIONS OF THE ALIGNMENT ARE ON THE SURFACE AND OTHERS ARE UNDERGROUND. SEE STRUCTURAL PLANS FOR DETAILS.
- 7. WALL PENETRATION FOR STORM DRAIN, WATER, AND SANITARY SEWER PIPING SHALL BE IN ACCORDANCE WITH THE STRUCTURAL DOCUMENTS. UNLESS NOTED OTHERWISE.
- 8. PROJECT DATUM:
 - A. COORDINATES SHOWN HEREON ARE REFERENCED TO THE NEW YORK STATE PLANE COORDINATE SYSTEM NYLI NAD 83 AS ESTABLISHED BY GPS METHODS. THESE VALUES HAVE BEEN SCALED TO GROUND AND SUBJECT TO TRAVERSE ADJUSTMENT.
 - B. ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AS ESTABLISHED BY GPS METHODS.
- STORM DRAINAGE, SUBDRAINAGE, WATER, AND SANITARY SEWER SYSTEMS AND INFRASTRUCTURE NOT IDENTIFIED AS NYC DEP INFRASTRUCTURE IS OWNED BY AND WILL BE MAINTAINED BY THE BATTERY PARK CITY AUTHORITY.

SITE DEMOLITION NOTES

- 1. SEE DRY UTILITY DEMOLITION PLANS, SE SHEETS, FOR DEMOLITION OF DRY UTILITIES ACROSS THE PROJECT.
- 2. SEE SITE MEP PLANS, SPF SHEETS, FOR DEMOLITION OF EXISTING IRRIGATION UTILITIES AND APPURTENANCES.
- 3. SEE PAVILION DEMOLITION PLANS, DM SHEETS, FOR DETAILS ON REMOVAL AND DEMOLITION OF EXISTING PAVILION ELEMENTS.
- 4. SEE RIGHT-OF-WAY DEMOLITION PLANS, MT SHEETS, FOR DEMOLITION WITHIN THE RIGHT OF WAY, AND FOR TESC DRAWINGS.
- 5. THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN ALL TEMPORARY BARRIERS AND SECURITY DEVICES AS NECESSARY FOR THE PROTECTION OF THE ADJACENT PUBLIC IMPROVEMENTS WITHIN THE STREET RIGHT-OF-WAYS.
- 6. SEE IRRIGATION PLANS, I SHEETS, AND SPECIFICATIONS FOR IRRIGATION DEMOLITION AND TEMPORARY IRRIGATION.
- SEE TREE PROTECTION PLANS, L SHEETS, AND SPECIFICATIONS FOR CARE, TRANSPLANTING AND PROTECTION OF EXISTING PLANTS TO REMAIN.
- 8. THE CONTRACTOR SHALL COORDINATE THE REMOVAL, ABANDONMENT AND/OR CAPPING OF EXISTING UTILITIES WITH THE APPLICABLE UTILITY AGENCY, INCLUDING BUT NOT LIMITED TO:
 - A. EXISTING WATER CONNECTIONS, NYC DEP.
 - B. EXISTING SANITARY SEWER, NYC DEP.
 - C. EXISTING STORM DRAINAGE, NYC DEP.
- 9. EXCAVATION FOR REMOVAL OF UTILITIES SHALL BE IN ACCORDANCE WITH THE PROJECT'S GEOTECHNICAL ENGINEERING REPORT PREPARED BY OWEIS ENGINEERING. A DRAFT GEOTECHNICAL REPORT WAS PROVIDED ON 05/12/2020.
- 10. THE CONTRACTOR SHALL COMPLY WITH THE REPORT RECOMMENDATIONS FOR TEMPORARY CONSTRUCTION SLOPES AND SHALL NOT EXCEED THOSE SLOPES WITHOUT PRIOR APPROVAL OF THE GEOTECHNICAL ENGINEER
- 11. CAP OR PLUG UTILITY SERVICES AT THE LIMITS OF EXCAVATION OR AT THE LIMITS OF DEMOLITION, UNLESS NOTED OTHERWISE.
- 12. ABANDON PIPES AND STRUCTURES SHOWN HEREON ACCORDING TO NYC DEP STANDARD SPECIFICATION SECTION 72.11

SITE DEMOLITION NOTES CONT.:

- 13. ABANDONMENT OF UTILITY PIPELINES SMALLER THAN 12 INCHES IN DIAMETER 1 SHALL REQUIRE CAPPING OR PLUGGING OF THE PIPE ENDS ONLY, UNLESS NOTED OTHERWISE.
- 14. REMOVE EXISTING PAVEMENTS AND WALKS, BASE COURSE, AND SUBBASE MATERIAL TO FULL DEPTH
- 15. REMOVE EXISTING PAVERS AND CRUSHED ROCK SURFACING, BASE COURSE, AND SUBBASE MATERIAL TO FULL DEPTH.
- 16. PROTECT ALL EXISTING STRUCTURES AND FOUNDATIONS TO REMAIN WITHIN THE LIMITS OF WORK DURING CONSTRUCTION UNLESS NOTED OTHERWISE. CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AS REQUIRED IN ORDER TO AVOID IMPACTS TO EXISTING STRUCTURES, FOUNDATIONS AND RETAINING WALLS.
- 17. PROTECT ALL EXISTING UTILITIES INDICATED TO REMAIN FROM DAMAGE AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AS REQUIRED TO ENSURE ADEQUATE PROTECTION OF UTILITIES AND APPURTENANCES TO REMAIN. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF DEMOLITION OPERATIONS AND NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES.
- 18. THE CONTRACTOR SHALL REPLACE PAVEMENT MARKINGS AND/OR SIGNAGE THAT HAS BEEN REMOVED OR DAMAGED FROM CONSTRUCTION ACTIVITIES.
- 19. MONITORING WELLS, IF ENCOUNTERED, SHALL BE DECOMMISSIONED IN ACCORDANCE WITH THE CITY OF NEW YORK REQUIREMENTS.
- 20. ITEMS SPECIFIED FOR SALVAGE ARE FOR REUSE WITHIN THE PROJECT LIMITS. CONTRACTOR SHALL COORDINATE WITH THE OWNER REGARDING ADDITIONAL SALVAGE REQUIREMENTS.
- 21. SALVAGE AND PROTECT THE FOLLOWING FOR REUSE ON SITE:
 - A. BLUE STONE AND TAPESTRY STONE, INCLUDING BUT NOT LIMITED TO PAVEMENTS, CURBS, WALLS, CLADDING, AND STEPS.
 - WOOD AS NOTED ON DRAWINGS (SEE DEMOLITION NOTE 3 FOR WOOD ON EXISTING BUILDING).
 - C. BENCHES AS NOTED ON DRAWINGS.
 - D. FLAG POLES AND BASES.
- 22. SEE LANDSCAPING PLANS FOR REUSE OF SITE SALVAGE ITEMS WITHIN THE PROJECT LIMITS.
- 23. SEE STRUCTURAL PLANS FOR ADDITIONAL INFORMATION ON EXISTING BULKHEAD, RELIEVING PLATFORM, AND RAILING REMOVAL.
- 24. SEE LANDSCAPING PLANS FOR RESTORATION AND REPLACEMENT OF EXISTING HISTORICAL BULKHEAD DEMARCATIONS.
- 25. RELOCATED FIRE HYDRANTS SHALL BE OPERATIONAL PRIOR TO DISCONNECTION OF EXISTING FIRE HYDRANTS.

SITE PAVING SECTION NOTES:

- 1. DIMENSIONS AND COORDINATES ARE TO FACE OF CURB. FACE OF BUILDING, FACE OF WALL, OR LIMIT OF PAVEMENT SECTION, UNLESS NOTED OTHERWISE.
- 2. APPLY A BITUMINOUS TACK COAT AT LOCATIONS WHERE ASPHALT PAVEMENT ABUTS ANY BUILDING STRUCTURE, UTILITY APPURTENANCE OR OTHER PAVEMENT TYPE.
- 3. CONCRETE FOR EXTERIOR SITE FACILITIES, INCLUDING BUT NOT LIMITED TO CURBS, SIDEWALKS, PAVING PADS, THRUST BLOCKING, FENCE POST AND BOLLARD FOUNDATIONS, RAMPS, AND UTILITY STRUCTURES SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 033000. "CAST-IN-PLACE CONCRETE" AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS. MAXIMUM WATER/CEMENT RATIO SHALL BE 0.45 AND CONCRETE SHALL HAVE 5 PLUS OR MINUS 0.5 PERCENT AIR ENTRAINMENT. CONCRETE BASE FOR PAVEMENT AND CONCRETE FOR 2 PAVING SHALL CONFORM TO CLASS A-40, TYPE 1A CONCRETE IN ACCORDANCE WITH NEW YORK CITY DEPARTMENT OF TRANSPORTATION STANDARD HIGHWAY SPECIFICATIONS SECTION 3.05, "CONCRETE." CONCRETE BASE FOR PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH NEW YORK CITY DEPARTMENT OF TRANSPORTATION STANDARD HIGHWAY SPECIFICATIONS SECTION 4.04, "CONCRETE BASE FOR PAVEMENT." CONCRETE FOR PAVING SHALL BE CONSTRUCTED IN ACCORDANCE WITH NEW YORK CITY DEPARTMENT OF TRANSPORTATION STANDARD HIGHWAY SPECIFICATIONS SECTION 4.05, "CONCRETE PAVEMENT."
- 4. PROVIDE AN EXPANSION JOINT AT LOCATIONS WHERE CONCRETE WALK OR CONCRETE PAVEMENT ABUT STRUCTURAL FOUNDATION, COLUMN OR WALL, AND FIXED OBJECTS.
- 5. EXTERIOR CONCRETE PAVEMENT JOINTS SHALL BE WEAKENED PLANE JOINTS WITH A MAXIMUM SPACING OF X (SPACING SHALL BE THICKNESS OF CONCRETE IN FEET X 24) FEET ON CENTER. PAVEMENT PANEL LENGTH CONTRACTOR MAY SUBSTITUTE CONSTRUCTION JOINTS FOR WEAKENED PLANE [CONTROL] JOINTS. JOINTS SHALL BE COORDINATED WITH LANDSCAPE PLANS.
- SEE LANDSCAPE PLANS FOR PAVEMENT MATERIALS. COLOR. AND FINISH.
- 7. SEE CIVIL MAINTENANCE AND TRAFFIC PROTECTION DRAWINGS FOR DETAILS ON SITE ELEMENTS LOCATED WITH THE NEW YORK CITY DEPARTMENT OF TRANSPORTATION RIGHT OF WAY.

GRADING NOTES:

- SPOT ELEVATIONS ARE TO TOP OF PAVEMENT, GUTTER ELEVATION, BOTTOM OF WALL, OR FINISHED GRADE UNLESS NOTED OTHERWISE
- 2. CURB AND/OR WALL REVEAL WHERE ADJACENT TO PLANTING ZONES AND/OR WALKING SURFACES SHALL BE 4 INCHES UNLESS NOTED OTHERWISE. REFER TO 10 FOR A SCHEMATIC DETAIL.
- 3. FOR UTILITIES TO REMAIN, ADJUST UTILITY ACCESS COVERS TO FINISH GRADE.
- 4. TOP ELEVATION FOR VAULTS SHALL MATCH FINISH GRADE. SLOPE VAULT LIDS AS REQUIRED.
- 5. SLOPES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. CONSTRUCTION SHALL BE BASED ON SPOT ELEVATIONS.

STORM DRAINAGE NOTES:

- LENGTHS OF PIPING SHOWN ON STORM DRAIN ARE FROM CENTER OF STRUCTURE, FITTING OR POINT OF INTERSECTION AND ARE SHOWN FOR INFORMATION ONLY. ALL PIPING SHALL BE INSTALLED AT THE LOCATION SHOWN ON THE PLANS AND LOCATED BY COORDINATES OR DIMENSIONS. VERIFY LOCATIONS OF LATERAL BUILDING CONNECTIONS WITH THE PLUMBING DRAWINGS PRIOR TO INSTALLATION.
- 2. TRENCH DRAIN GRATES SHALL BE LOCKING QUE CAST BRONZE BY IRON AGE DESIGNS, UNLESS NOTED OTHERWISE.
- 3. STORM DRAINAGE DETAILS ARE FOR A PRIVATE DRAIN SYSTEM. FOR NYC DEP 8. OWNED STORM DRAINAGE AND MANHOLE DETAILS SEE NYC DEP STANDARD DETAILS OF CONSTRUCTION.
- 4. HYDRODYNAMIC SEPARATORS SHALL BE SIZED ACCORDING TO THE FOLLOWING REQUIREMENTS:
 - A. HDS1-1-1:TREATMENT FLOW RATE = 0.53 CFS, 100-YEAR FLOW RATE = 2.86 CFS, SQUARE STRUCTURE
 - B. HDS3-1-1:TREATMENT FLOW RATE = 0.27 CFS, 100-YEAR FLOW RATE = 1.50 CFS, ROUND STRUCTURE
 - C. HDS4-1-1:TREATMENT FLOW RATE = 1.69 CFS, 100-YEAR FLOW RATE = 9.22 CFS, ROUND STRUCTURE
 - D. HDS6-1-1:TREATMENT FLOW RATE = 0.21 CFS, 100-YEAR FLOW RATE = 1.13 CFS, ROUND STRUCTURE
 - E. HDS7-1-1:TREATMENT FLOW RATE = 0.17 CFS, 100-YEAR FLOW RATE = 0.94 CFS, ROUND STRUCTURE
 - F. HDS8-1-1:TREATMENT FLOW RATE = 0.39 CFS, 100-YEAR FLOW RATE = 2.14 CFS, ROUND STRUCTURE
 - G. HDS9-1-1:TREATMENT FLOW RATE = 0.59 CFS, 100-YEAR FLOW RATE = 3.20 CFS, ROUND STRUCTURE
 - H. HDS10-1-1:TREATMENT FLOW RATE = 0.31 CFS, 100-YEAR FLOW RATE = 1.67 CFS, ROUND STRUCTURE HDS11-1-1:TREATMENT FLOW RATE = 0.51 CFS, 100-YEAR FLOW RATE =
- 5. METAL DRAINAGE HARDWARE IDENTIFIED IN SECTIONS AND DETAILS SHALL BE
- 6. PIPE LOCATED WITHIN MAPPED STREETS SHALL BE IN ACCORDANCE WITH NYC DEP SEWER DESIGN STANDARDS. PIPE LOCATED WITHIN THE BATTERY PROPERTY SHALL BE IN ACCORDANCE WITH NYC DPR STANDARDS. PIPE LOCATED IN OTHER AREAS THAN NOTED ABOVE SHALL BE A MATERIAL IDENTIFIED WITHIN THE PROJECT SPECIFICATIONS.

2.76 CFS. ROUND STRUCTURE

SS316, UNLESS NOTED OTHERWISE

SUBDRAINAGE NOTES:

- LENGTHS OF PIPING SHOWN ON SUBDRAINAGE ARE FROM CENTER OF STRUCTURE, FITTING OR POINT OF INTERSECTION AND ARE SHOWN FOR INFORMATION ONLY, ALL PIPING SHALL BE INSTALLED AT THE LOCATION SHOWN ON THE PLANS AND LOCATED BY COORDINATES OR DIMENSIONS.
- SUBDRAINAGE DETAILS ARE FOR A PRIVATE DRAIN SYSTEM. FOR NYC DEP OWNED STORM DRAINAGE AND MANHOLE DETAILS SEE NYC DEP STANDARD DETAILS OF CONSTRUCTION.

WATER NOTES:

- WATER AND REUSE WATER MATERIALS AND CONSTRUCTION SHALL CONFORM TO NYC DEP STANDARD SEWER AND WATER MAIN SPECIFICATIONS FOR WATER LINES INSTALLED WITHIN THE PUBLIC RIGHT OF WAY. FOR WATER AND REUSE WATER MATERIALS AND CONSTRUCTION WITHIN PRIVATE PROPERTY, REFER TO THE PROJECT SPECIFICATIONS AND PLAN DOCUMENTATION.
- 2. SEE NOTE 9 FOR TYPICAL COVER OVER WATER AND REUSE WATER LINES. MAINTAIN A MINIMUM OF 12 INCHES CLEAR AT CROSSINGS WITH UTILITIES OTHER THAN SANITARY SEWER LINES. WATER AND REUSE WATER LINES SHALL PASS UNDER THE OTHER UTILITY IF THE MINIMUM SPECIFIED COVER CANNOT BE OBTAINED.
- TO WIDTH RATIO SHALL NOT EXCEED 1.25. AT THE CONTRACTOR'S OPTION, 3. MAINTAIN A MINIMUM OF 18 INCHES CLEAR BETWEEN CROSSINGS OF WATER AND REUSE WATER LINES AND SANITARY SEWER LINES. WATER AND REUSE WATER LINES SHALL CROSS ABOVE SANITARY SEWER LINES. PROVIDE HORIZONTAL AND VERTICAL BENDS WHERE INDICATED. WHERE A POINT OF INTERSECTION (HORIZONTAL OR VERTICAL) IS SHOWN AND THE DEFLECTION ANGLE IS MORE OR LESS THAN A STANDARD BEND. USE A COMBINATION OF THE STANDARD BEND AND JOINT DEFLECTION OF THE PIPE TO MEET THE ALIGNMENT SHOWN. MAXIMUM JOINT DEFLECTION IS 3 DEGREES OR THE MAXIMUM THAT IS RECOMMENDED BY THE PIPE MANUFACTURER, WHICHEVER IS SMALLER.

WATER NOTES CONT:

- 4. PROVIDE RESTRAINED JOINTS AT ALL HORIZONTAL AND VERTICAL BENDS IN ACCORDANCE WITH NYC DEP STANDARD SEWER AND WATER MAIN DETAILS AND SPECIFICATIONS FOR WATER LINES INSTALLED WITHIN THE PUBLIC RIGHT OF WAY AND WITHIN PRIVATE PROPERTY. FOR WATER AND REUSE WATER MATERIALS AND CONSTRUCTION WITHIN PRIVATE PROPERTY, REFER TO THE PROJECT SPECIFICATIONS AND PLAN DOCUMENTATION FOR ADDITIONAL THRUST BLOCKING RESTRAINT. THE CONTRACTOR MAY ELIMINATE HORIZONTAL AND/OR VERTICAL THRUST BLOCKING AT LOCATIONS WHERE INSTALLATION OF THE THRUST BLOCKING WILL INTERFERE WITH OTHER CONSTRUCTION. SEE SPECIFICATION FOR REQUIREMENTS.
- CAPPED WATER LINES OR TEES SHALL HAVE RESTRAINED JOINTS. COORDINATE POINTS AND ELEVATIONS SHOWN FOR ALL MANHOLES ARE TO THE CENTER OF THE MANHOLE. UNLESS NOTED OTHERWISE
- 6. THE CONTRACTOR SHALL VERIFY EXISTING AND NEW UTILITY CROSSINGS PRIOR TO WATER AND SANITARY SEWER SYSTEM INSTALLATION. TRENCHING FOR WATER AND REUSE WATER LINES SHALL CONFORM TO NYC DEP STANDARD SEWER AND WATER MAIN SPECIFICATIONS AND PIPE BEDDING SHALL CONFORM TO NYC DEP STANDARD SEWER AND WATER MAIN SPECIFICATIONS
- 7. UTILITY CROSSINGS SHOWN ON THE UTILITY PROFILES ARE FOR THE CONTRACTOR'S INFORMATION AND REFERENCE. THE CONTRACTOR SHALL VERIFY EXISTING AND NEW UTILITY CROSSINGS PRIOR TO UTILITY SYSTEM INSTALLATION.
- WATER AND REUSE WATER LINES SHALL BE DUCTILE IRON FOR PIPES GREATER THAN OR EQUAL TO 3 INCHES, AND TYPE K COPPER FOR PIPES SMALLER THAN 3 INCHES.
- WATER AND REUSE WATER LINES SHALL BE LAID WITH THE FOLLOWING MINIMUM COVERS:
 - <8 INCH PIPE MINIMUM 4'-0" OF COVER 8-INCH PIPE - MINIMUM 3'-9" OF COVER 10-INCH PIPE - MINIMUM 3'-7" OF COVER 12-INCH PIPE - MINIMUM 3'-5" OF COVER
- 10. PIPES AND FITTINGS FOR PROPOSED WATER LINES TO BE EQUIPPED WITH RESTRAINED JOINTS WHERE LOCATED IN/OR NEAR GEOFOAM AND/OR WHERE THRUST BLOCKS CANNOT BE USED.
- 1. BOTH REUSE AND DOMESTIC WATER DISTRIBUTION LINES ARE SHOWN, IN PARALLEL, WITH A 2' CENTERLINE OFFSET. PIPE DIMENSIONS SHOWN APPLY TO BOTH LINES, WHILE N/E DIMENSIONS APPLY TO THE DOMESTIC LINE. HORIZONTAL LOCATION FOR THE REUSE WATER LINE CAN BE OBTAINED BY APPLYING A 2' OFFSET FROM SHOWN DOMESTIC LINE N/E, UNLESS NOTED OTHERWISE.
- 12. WHERE A NON-STANDARD FITTING ANGLE IS REFERENCED IN THE PLAN, PROVIDE A COMBINATION OF STANDARD FITTINGS (11 1/4°, 22 1/2°, AND 45°), PLUS ALLOWABLE PIPE DEFLECTION, IN ORDER TO MEET INDICATED FITTING ANGLE
- 13. HYDRANTS ORDERED INSTALLED OR REQUIRED TO REPLACE EXISTING HYDRANTS; AND, EXISTING HYDRANTS ORDERED RETAINED AND ADJUSTED TO NEW GRADE, REMOVED AND RESET, OR RECONNECTED TO NEW OR EXISTING WATER MAINS SHALL BE TWO-PIECE "BREAKAWAY" HYDRANTS, TYPES S-2-LP OR D-2-LP, AS SHOWN ON THE LATEST REVISIONS OF BWSO STANDARD DRAWING NOS. 43250-Z OR 43142-Z, RESPECTIVELY, AND AS SPECIFIED IN ACCORDANCE WITH SECTION 2.08 – STANDARD SPECIFICATIONS FOR DRY BARREL FIRE HYDRANTS AND EXTENSION KITS

SANITARY SEWER NOTES:

- SANITARY SEWER MATERIALS AND CONSTRUCTION SHALL CONFORM NYC DEP STANDARD SEWER AND WATER MAIN SPECIFICATIONS.
- 2. SANITARY SEWER PIPING SHALL BE REINFORCED CONCRETE PIPING UNLESS NOTED OTHERWISE.
- TRENCHING FOR SANITARY SEWERS SHALL CONFORM TO NYC DEP STANDARD SEWER AND WATER MAIN SPECIFICATIONS AND PIPE BEDDING SHALL CONFORM TO NYC DEP STANDARD SEWER AND WATER MAIN SPECIFICATIONS. SANITARY SEWER MANHOLES SHALL BE 48 INCHES IN DIAMETER, UNLESS NOTED OTHERWISE.

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KEY PLAN

REGISTRATION

NYC DOB JOB NUMBER

ISSUE/REVISION

JAN 2023 | RESPONSES TO QUESTIONS DATE DESCRIPTION

PROJECT/TERM CONTRACT NUMBER

Contract No. 18-2586 SHEET TITLE

> GENERAL NOTES AND NOTES

SHEET NUMBER

PAGE NUMBER

IT IS A VIOLATION OF TITLE VIII ARTICLE 145, SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER IN ANY WAY, PLANS, SPECIFICATIONS, PLATS OR REPORTS TO WHICH THE SEAL OF A PROFESSIONAL ENGINEER HAS BEEN APPLIED. IF AN ITEM BEARING THE SEAL OF A PROFESSIONAL ENGINEER IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS/HER SIGNATURE. THE DATE, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

ATTACHMENT #6 NEW SPECIFICATION #321000 ROADWAY RESURFACING AND RESTORATION (NYCDOT)

(ATTACHED)

SECTION 321000 – ROADWAY RESURFACING AND RESTORATION (NYCDOT)

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. The Contractor shall perform roadway excavation, restoration, grinding and resurfacing of pavement, and all other work affecting City roadway pavements and curbing as shown on the Contract Drawings and as specified in this Section.
- B. All Work under this Section shall be performed in accordance with the applicable standards of the New York City Department of Transportation (NYCDOT).
 - 1. NYCDOT Standard Details of Construction: Pertinent NYCDOT Standard Details of Construction are included in the Contract Drawings; however, the Contractor shall comply with the current version of NYCDOT standards irrespective of whether such standards are included in the Contract Drawings. The Contractor shall obtain a current set of NYCDOT Standard Details of Construction, and coordinate with NYCDOT as may be needed to ensure compliance with such standards.
 - 2. NYCDOT Standard Highway Specifications:
 - a. The Contractor shall comply with the various NYCDOT Standard Highway Specifications that are indicated on the Contract Drawings, and any and all applicable NYCDOT Standard Highway Specifications irrespective as to whether such standards are specifically indicated in the Contract Drawings. The applicable specification sections include, but are not necessarily limited to, the following:

Section Description

- 4.02 Asphaltic Conc. Wearing Course
- 4.04 Concrete Base for Pavement
- 4.07 Curb, Bluestone and Granite
- 4.11 Excavation and Filling
- 6.02 Unclassified Excavation
- 6.44 White and Yellow Thermoplastic Reflectorized Pavement Markings
- 6.55 Sawcutting Existing Pavement
- 6.58 Tack Coat
- 6.75 Grinding Existing Asphaltic Concrete Wearing Course
- 6.91 Reflective Cracking Membrane (18" Wide)
- b. NYCDOT Standard Highway Specifications are modified as follows:
 - 1) References therein to "NYCDDC Infrastructure-Engineering Support", "Resident Engineer", and "Project Manager" shall instead mean "Construction Manager".
 - 2) References to measurement of work and materials for payment are deleted.

1.02 REFERENCE STANDARDS

- A. New York City Department of Transportation Standard Highway Specifications
- B. New York City Department of Transportation Standard Details of Construction

1.03 SUBMITTALS

- A. Submit for approval product data indicating compliance with Contract Documents for the following:
 - 1. Asphaltic Concrete Wearing Course
 - 2. Concrete Base for Pavement
 - 3. Reflective Cracking Membrane

PART 2 - PRODUCTS

2.01 MATERIALS

A. Materials shall be in accordance with applicable NYCDOT Standard Highway Specifications.

PART 3 - EXECUTION

3.01 EXECUTION

A. Execute the Work of this Section in accordance with the applicable NYCDOT Standard Highway Specifications.

END OF SECTION 321000