

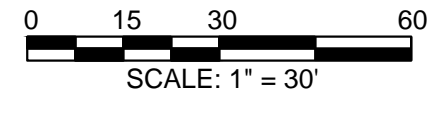
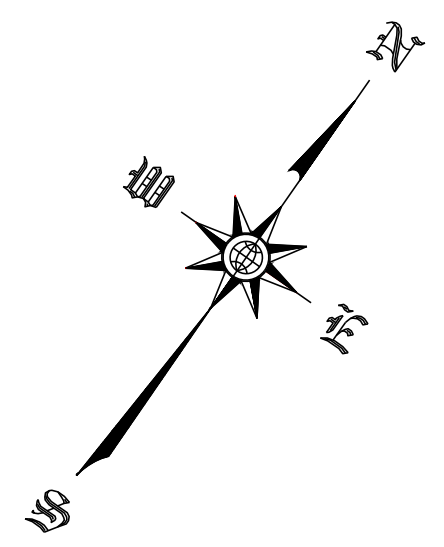
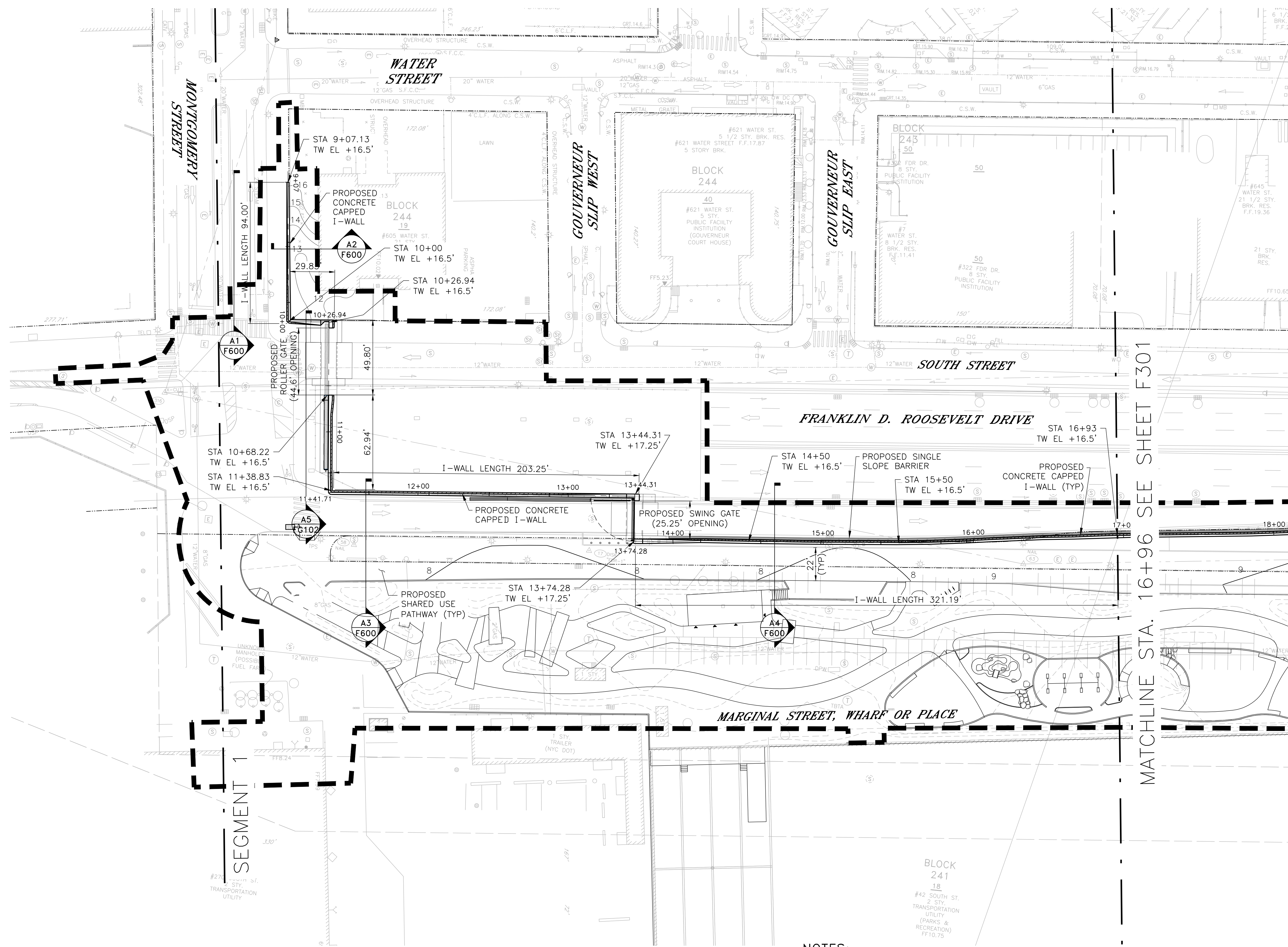
**Appendix C1d**  
**Preferred Alternative – Floodwalls and Structural**  
**Plans**

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SHEET TITLE

SHEET NO.	DRAWING NO.	SHEET TITLE
F300	SANDRESM1-F300-00.DWG	FLOODWALL STRUCTURAL PLAN SEGMENT 1 - REACH A STA. 9+06 - 16+96
F301	SANDRESM1-F301-00.DWG	FLOODWALL STRUCTURAL PLAN SEGMENT 1 - REACH B STA. 16+96 - 23+86
F302	SANDRESM1-F302-00.DWG	FLOODWALL STRUCTURAL PLAN SEGMENT 1 - REACH C STA. 23+86 - 30+36
F303	SANDRESM1-F303-00.DWG	FLOODWALL STRUCTURAL PLAN SEGMENT 1 - REACH D STA. 30+36 - 41+07
F304	SANDRESM1-F304-00.DWG	FLOODWALL STRUCTURAL PLAN SEGMENT 1 - REACH E STA. 41+07 - 50+53
F305	SANDRESM1-F305-00.DWG	FLOODWALL STRUCTURAL PLAN SEGMENT 2 - REACH F STA. 50+53 - 59+63
F306	SANDRESM1-F306-00.DWG	FLOODWALL STRUCTURAL PLAN SEGMENT 2 - REACH G STA. 59+63 - 69+75
F307	SANDRESM1-F307-00.DWG	FLOODWALL STRUCTURAL PLAN SEGMENT 2 - REACH H STA. 69+75 - 78+00
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F310	SANDRESM1-F310-00.DWG	FLOODWALL STRUCTURAL PLAN SEGMENT 4 - REACH K STA. 89+93 - 97+39
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F312	SANDRESM1-F312-00.DWG	FLOODWALL STRUCTURAL PLAN SEGMENT 4 - REACH M STA. 104+57 - 111+72
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F315	SANDRESM1-F315-00.DWG	FLOODWALL STRUCTURAL PLAN SEGMENT 6 - REACH Q STA. 128+83 - 136+21



CONCEPTUAL REDESIGN SUBMISSION 1/31/2019



**LEGEND:**  
 --- LIMITS OF WORK

- NOTES:**
1. ALL ITEMS CALLED OUT AS EXISTING ARE TO REMAIN UNLESS NOTED OTHERWISE.
  2. REFER TO SHEETS PW300-PW315 FOR SHARED USE PATH PLAN.
  3. REFER TO SHEETS LG300-LG315 FOR SITE AND GRADING PLAN.
  4. REFER TO SHEETS LL300-LL315 FOR LAYOUT PLAN.
  5. REFER TO SHEETS LM300-LM315 FOR MATERIALS PLAN.
  6. REFER TO SHEETS LP300-LP315 FOR PLANTING PLAN.
  7. REFER TO SHEETS LS300-LS315 FOR SOILS PLAN.
  8. REFER TO SHEETS E300-E302 FOR ELECTRICAL PLAN.
  9. REFER TO SHEETS P300-P313 FOR PLUMBING PLAN.

**CONCEPTUAL**  
 SUBMITTED DATE: 1/31/2019

TOPOGRAPHIC SURVEY PREPARED BY: FOR SURVEYOR  
 INFORMATION SEE SURVEY SET SUI00 DRAWINGS SERIES

FINAL DESIGN SUBMITTED BY:  
**AKRF KSE**  
 The AKRF-KSE JV

FINAL DESIGN PREPARED BY:  
**ch2m**  
 CH2M HILL NEW YORK, INC.  
 NAME OF CONSULTANT

SIGNATURE \_\_\_\_\_  
 DATE \_\_\_\_\_

CITY OF NEW YORK  
 DEPARTMENT OF DESIGN + CONSTRUCTION  
 DIVISION OF INFRASTRUCTURE  
 BUREAU OF DESIGN

FLOODWALL STRUCTURAL PLAN  
 SEGMENT 1 - REACH A  
 STA. 9+06 - 16+96  
 CH2M DRAWN BY \_\_\_\_\_ SANDRESM1-F300-00.DWG  
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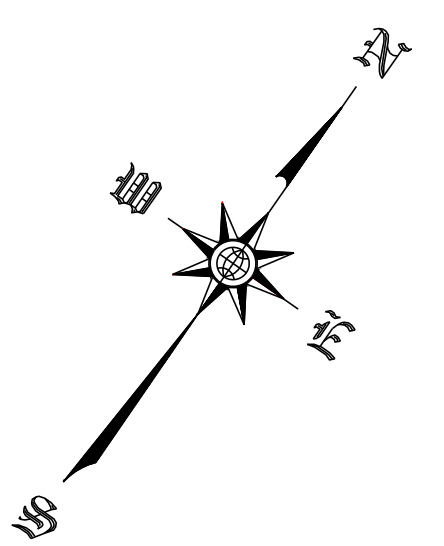
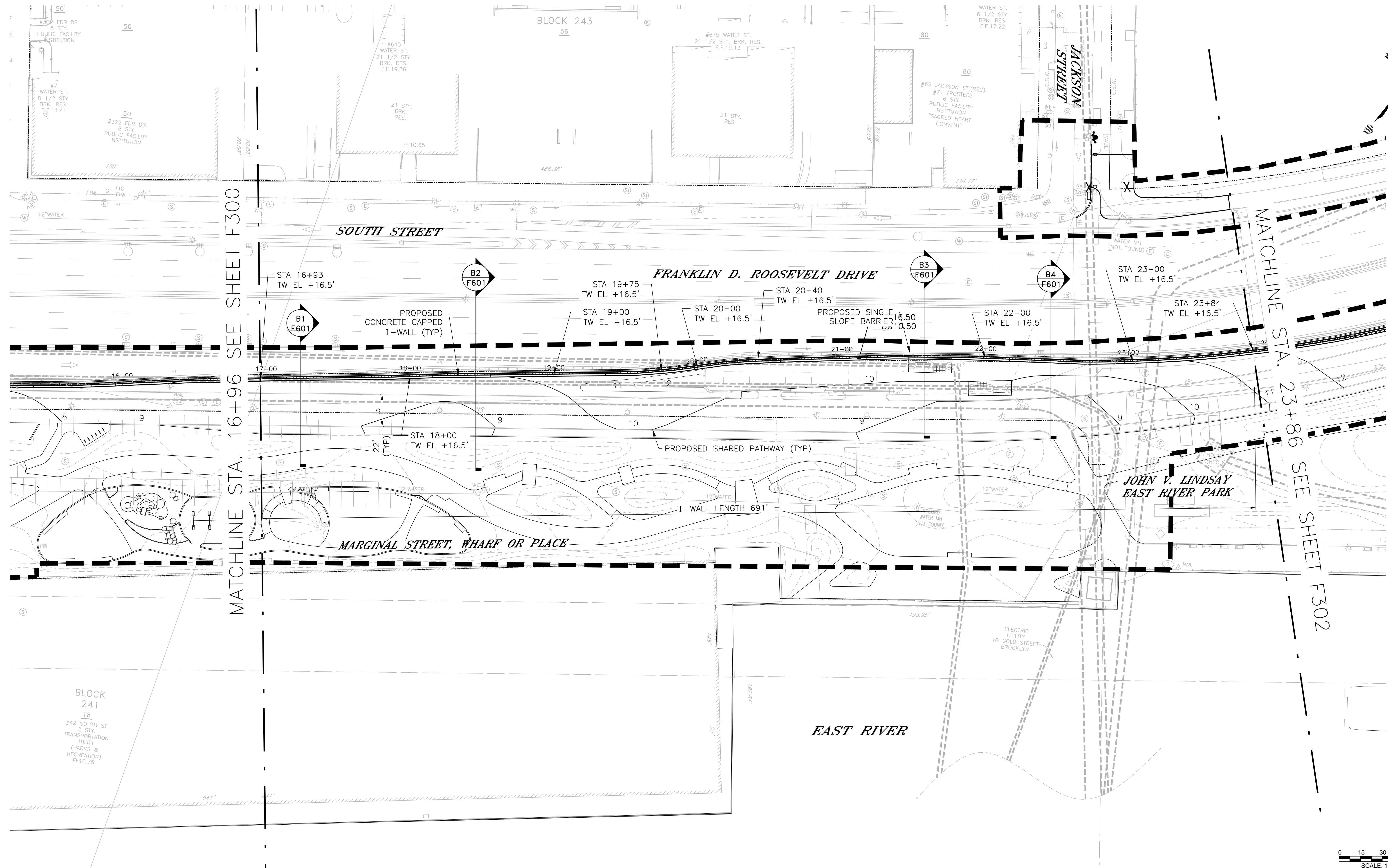
NO.	DATE	DESCRIPTIONS	BY	APPR'D

INSTALLATION OF  
 EAST SIDE COASTAL RESILIENCY  
 BOROUGH OF MANHATTAN

CAPITAL PROJECT NO. SANDRESM1 1/31/19 SHEET 104 OF 811 F300



CONCEPTUAL REDESIGN SUBMISSION 1/31/2019



MATCHLINE STA. 16+96 SEE SHEET F300

MATCHLINE STA. 23+86 SEE SHEET F302

**LEGEND:**  
 LIMITS OF WORK

0 15 30 60  
 SCALE: 1" = 30'

**CONCEPTUAL**  
 SUBMITTED DATE: 1/31/2019

**NOTES:**

1. ALL ITEMS CALLED OUT AS EXISTING ARE TO REMAIN UNLESS NOTED OTHERWISE.
2. REFER TO SHEETS PW300-PW315 FOR SHARED USE PATH PLAN.
3. REFER TO SHEETS LG300-LG315 FOR SITE AND GRADING PLAN.
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8. REFER TO SHEETS E300-E302 FOR ELECTRICAL PLAN.
9. REFER TO SHEETS P300-P313 FOR PLUMBING PLAN.

TOPOGRAPHIC SURVEY PREPARED BY: FOR SURVEYOR  
 INFORMATION SEE SURVEY SET SU100 DRAWINGS SERIES

FINAL DESIGN SUBMITTED BY:  
 The AKRF-KSE JV

FINAL DESIGN PREPARED BY:  
 CH2M HILL NEW YORK, INC.  
 NAME OF CONSULTANT: \_\_\_\_\_  
 SIGNATURE: \_\_\_\_\_  
 DATE: \_\_\_\_\_

CITY OF NEW YORK  
 DEPARTMENT OF DESIGN + CONSTRUCTION  
 DIVISION OF INFRASTRUCTURE  
 BUREAU OF DESIGN

FLOODWALL STRUCTURAL PLAN  
 SEGMENT 1 - REACH B  
 STA. 16+96 - 23+86  
 CH2M DRAWN BY: \_\_\_\_\_ SANDRESM1-F301-00.DWG  
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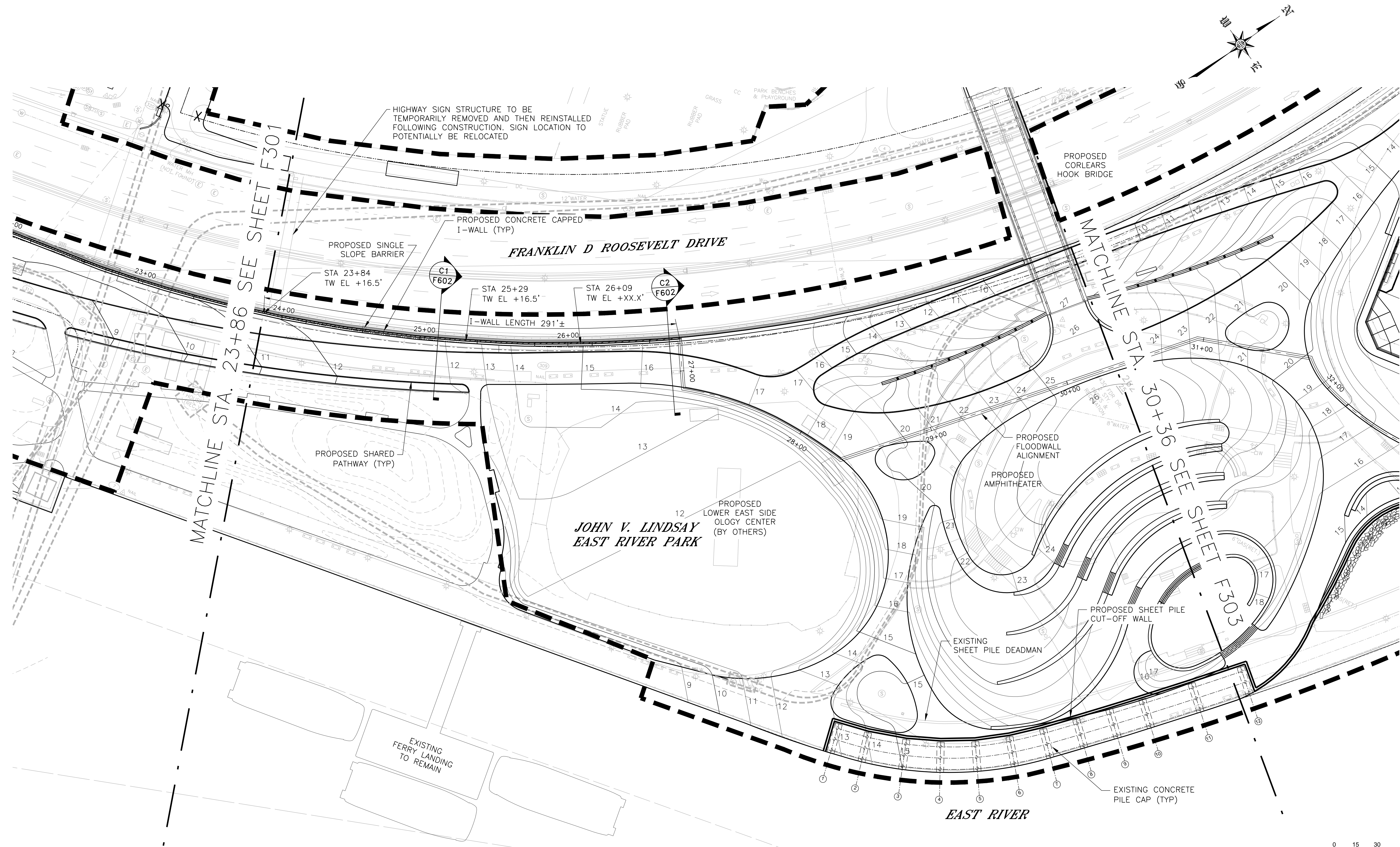
NO.	DATE	DESCRIPTIONS REVISIONS	BY	APPR'D

**INSTALLATION OF  
 EAST SIDE COASTAL RESILIENCY**  
 BOROUGH OF MANHATTAN

CAPITAL PROJECT NO. SANDRESM1 1/31/19 SHEET 105 OF 811 F301



CONCEPTUAL REDESIGN SUBMISSION 1/31/2019



MATCHLINE STA. 23+86 SEE SHEET F301

MATCHLINE STA. 30+36 SEE SHEET F303

**LEGEND:**  
 - - - - - LIMITS OF WORK

**NOTES:**

1. ALL ITEMS CALLED OUT AS EXISTING ARE TO REMAIN UNLESS NOTED OTHERWISE.
2. REFER TO SHEETS PW300-PW315 FOR SHARED USE PATH PLAN.
3. REFER TO SHEETS LG300-LG315 FOR SITE AND GRADING PLAN.
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8. REFER TO SHEETS E300-E302 FOR ELECTRICAL PLAN.
9. REFER TO SHEETS P300-P313 FOR PLUMBING PLAN.



**CONCEPTUAL**  
 SUBMITTED DATE: 1/31/2019

TOPOGRAPHIC SURVEY PREPARED BY: FOR SURVEYOR  
 INFORMATION SEE SURVEY SET SU100 DRAWINGS SERIES

FINAL DESIGN SUBMITTED BY:  
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 The AKRF-KSE JV

FINAL DESIGN PREPARED BY:  
**ch2m**  
 CH2M HILL NEW YORK, INC.  
 NAME OF CONSULTANT

SIGNATURE \_\_\_\_\_  
 DATE \_\_\_\_\_

CITY OF NEW YORK  
 DEPARTMENT OF DESIGN + CONSTRUCTION  
 DIVISION OF INFRASTRUCTURE  
 BUREAU OF DESIGN

FLOODWALL STRUCTURAL PLAN  
 SEGMENT 1 - REACH C  
 STA. 23+86 - 30+36

CH2M DRAWN BY \_\_\_\_\_  
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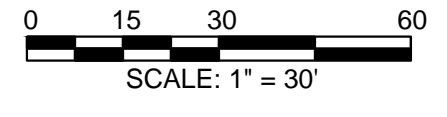
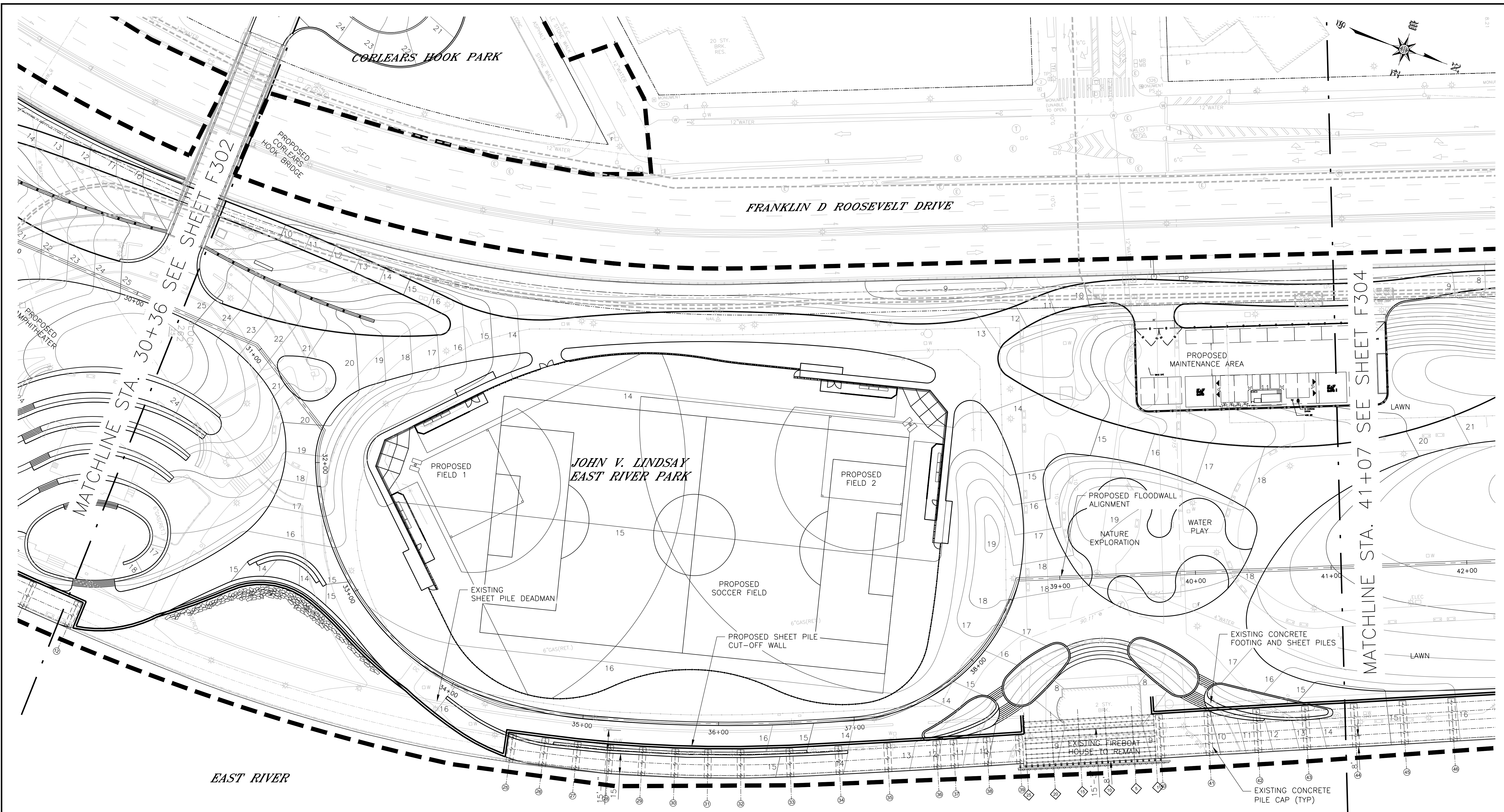
NO.	DATE	DESCRIPTIONS REVISIONS	BY	APPR'D

**INSTALLATION OF  
 EAST SIDE COASTAL RESILIENCY**  
 BOROUGH OF MANHATTAN

CAPITAL PROJECT NO. SANDRESM1 1/31/19      SHEET 106 OF 811      F302



CONCEPTUAL REDESIGN SUBMISSION 1/31/2019



**CONCEPTUAL**  
SUBMITTED DATE: 1/31/2019

**LEGEND:**  
--- LIMITS OF WORK

- NOTES:**
1. ALL ITEMS CALLED OUT AS EXISTING ARE TO REMAIN UNLESS NOTED OTHERWISE.
  2. REFER TO SHEETS PW300-PW315 FOR SHARED USE PATH PLAN.
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  8. REFER TO SHEETS E300-E302 FOR ELECTRICAL PLAN.
  9. REFER TO SHEETS P300-P313 FOR PLUMBING PLAN.

TOPOGRAPHIC SURVEY PREPARED BY: FOR SURVEYOR  
INFORMATION SEE SURVEY SET SU100 DRAWINGS SERIES

FINAL DESIGN SUBMITTED BY:  
**AKRF KSE**  
The AKRF-KSE JV

FINAL DESIGN PREPARED BY:  
**ch2m**  
CH2M HILL NEW YORK, INC.  
NAME OF CONSULTANT

SIGNATURE \_\_\_\_\_  
DATE \_\_\_\_\_

CITY OF NEW YORK  
DEPARTMENT OF DESIGN + CONSTRUCTION  
DIVISION OF INFRASTRUCTURE  
BUREAU OF DESIGN

FLOODWALL STRUCTURAL PLAN  
SEGMENT 1 - REACH D  
STA. 30+36 - 41+07

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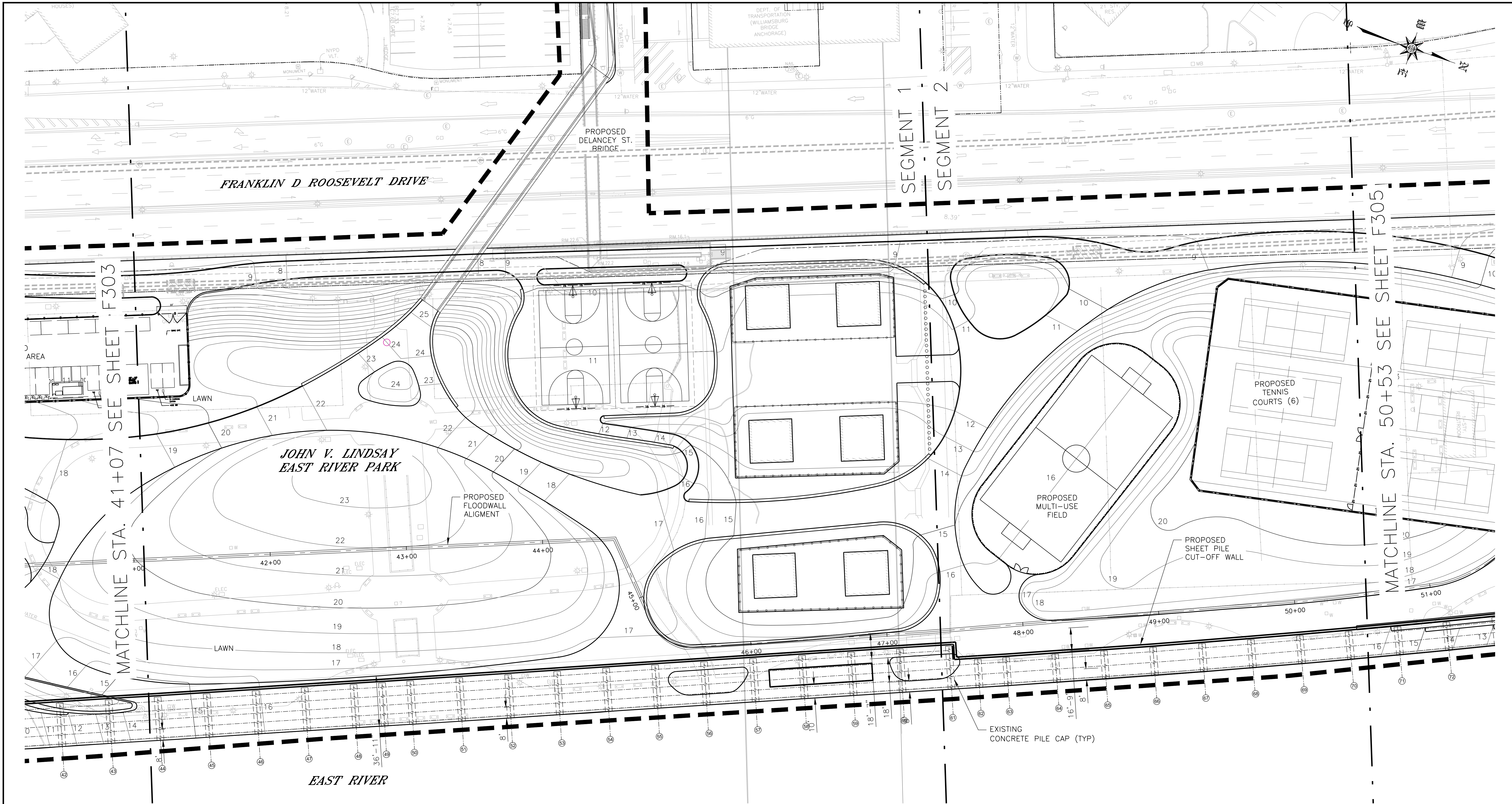
NO.	DATE	DESCRIPTIONS REVISIONS	BY	APPR'D

INSTALLATION OF  
EAST SIDE COASTAL RESILIENCY  
BOROUGH OF MANHATTAN

CAPITAL PROJECT NO. SANDRESM1 1/31/19 SHEET 107 OF 811 F303



CONCEPTUAL REDESIGN SUBMISSION 1/31/2019



MATCHLINE STA. 41+07 SEE SHEET F303

MATCHLINE STA. 50+53 SEE SHEET F304

EAST RIVER

JOHN V. LINDSAY  
EAST RIVER PARK

FRANKLIN D. ROOSEVELT DRIVE

PROPOSED DELANCEY ST. BRIDGE

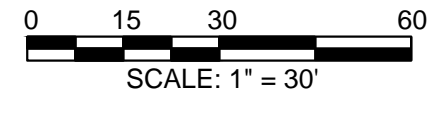
PROPOSED TENNIS COURTS (6)

PROPOSED MULTI-USE FIELD

PROPOSED SHEET PILE CUT-OFF WALL

EXISTING CONCRETE PILE CAP (TYP)

PROPOSED FLOODWALL ALIGNMENT



**CONCEPTUAL**  
SUBMITTED DATE: 1/31/2019

**NOTES:**

1. ALL ITEMS CALLED OUT AS EXISTING ARE TO REMAIN UNLESS NOTED OTHERWISE.
2. REFER TO SHEETS PW300-PW315 FOR SHARED USE PATH PLAN.
3. REFER TO SHEETS LG300-LG315 FOR SITE AND GRADING PLAN.
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7. REFER TO SHEETS LS300-LS315 FOR SOILS PLAN.
8. REFER TO SHEETS E300-E302 FOR ELECTRICAL PLAN.
9. REFER TO SHEETS P300-P313 FOR PLUMBING PLAN.

**LEGEND:**

--- LIMITS OF WORK

TOPOGRAPHIC SURVEY PREPARED BY: FOR SURVEYOR  
INFORMATION SEE SURVEY SET SU100 DRAWINGS SERIES

FINAL DESIGN SUBMITTED BY:



FINAL DESIGN PREPARED BY:



SIGNATURE \_\_\_\_\_  
DATE \_\_\_\_\_

CITY OF NEW YORK  
DEPARTMENT OF DESIGN + CONSTRUCTION  
DIVISION OF INFRASTRUCTURE  
BUREAU OF DESIGN

FLOODWALL STRUCTURAL PLAN  
SEGMENT 1 - REACH E  
STA. 41+07 - 50+53

CH2M DRAWN BY \_\_\_\_\_ SANDRESM1-F304-00.DWG  
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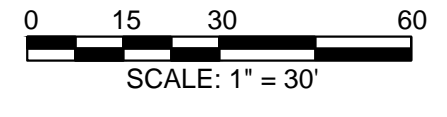
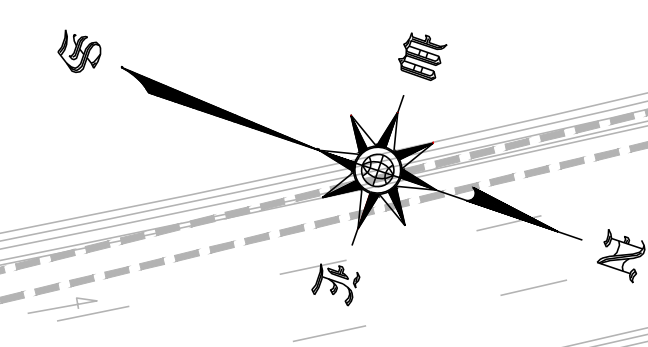
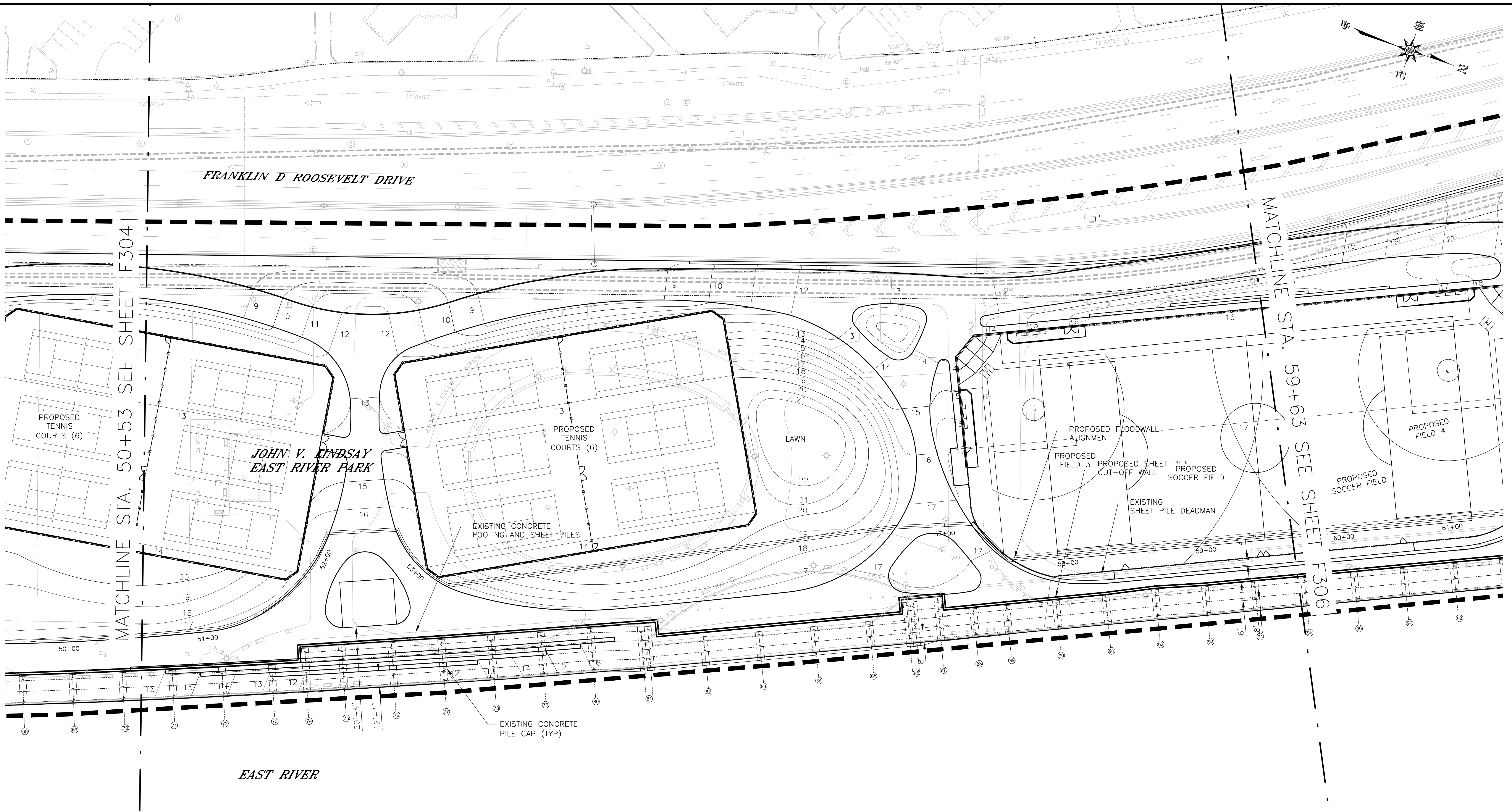
NO.	DATE	DESCRIPTIONS REVISIONS	BY	APPR'D

INSTALLATION OF  
EAST SIDE COASTAL RESILIENCY  
BOROUGH OF MANHATTAN

SHEET 108 OF 811 F304  
CAPITAL PROJECT NO. SANDRESM1 1/31/19



CONCEPTUAL REDESIGN SUBMISSION 1/31/2019



**CONCEPTUAL**  
SUBMITTED DATE: 1/31/2019

**LEGEND:**  
 LIMITS OF WORK

- NOTES:**
1. ALL ITEMS CALLED OUT AS EXISTING ARE TO REMAIN UNLESS NOTED OTHERWISE.
  2. REFER TO SHEETS PW300-PW315 FOR SHARED USE PATH PLAN.
  3. REFER TO SHEETS LG300-LG315 FOR SITE AND GRADING PLAN.
  4. REFER TO SHEETS LL300-LL315 FOR LAYOUT PLAN.
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  8. REFER TO SHEETS E300-E302 FOR ELECTRICAL PLAN.
  9. REFER TO SHEETS P300-P313 FOR PLUMBING PLAN.

TOPOGRAPHIC SURVEY PREPARED BY: FOR SURVEYOR  
INFORMATION SEE SURVEY SET SU100 DRAWINGS SERIES

FINAL DESIGN SUBMITTED BY: **AKRF KSE**  
The AKRF-KSE JV

FINAL DESIGN PREPARED BY: **ch2m**  
CH2M HILL NEW YORK, INC.  
NAME OF CONSULTANT

SIGNATURE \_\_\_\_\_  
DATE \_\_\_\_\_

CITY OF NEW YORK  
DEPARTMENT OF DESIGN + CONSTRUCTION  
DIVISION OF INFRASTRUCTURE  
BUREAU OF DESIGN

**FLOODWALL STRUCTURAL PLAN**  
SEGMENT 2 - REACH F  
STA. 50+53 - 59+63

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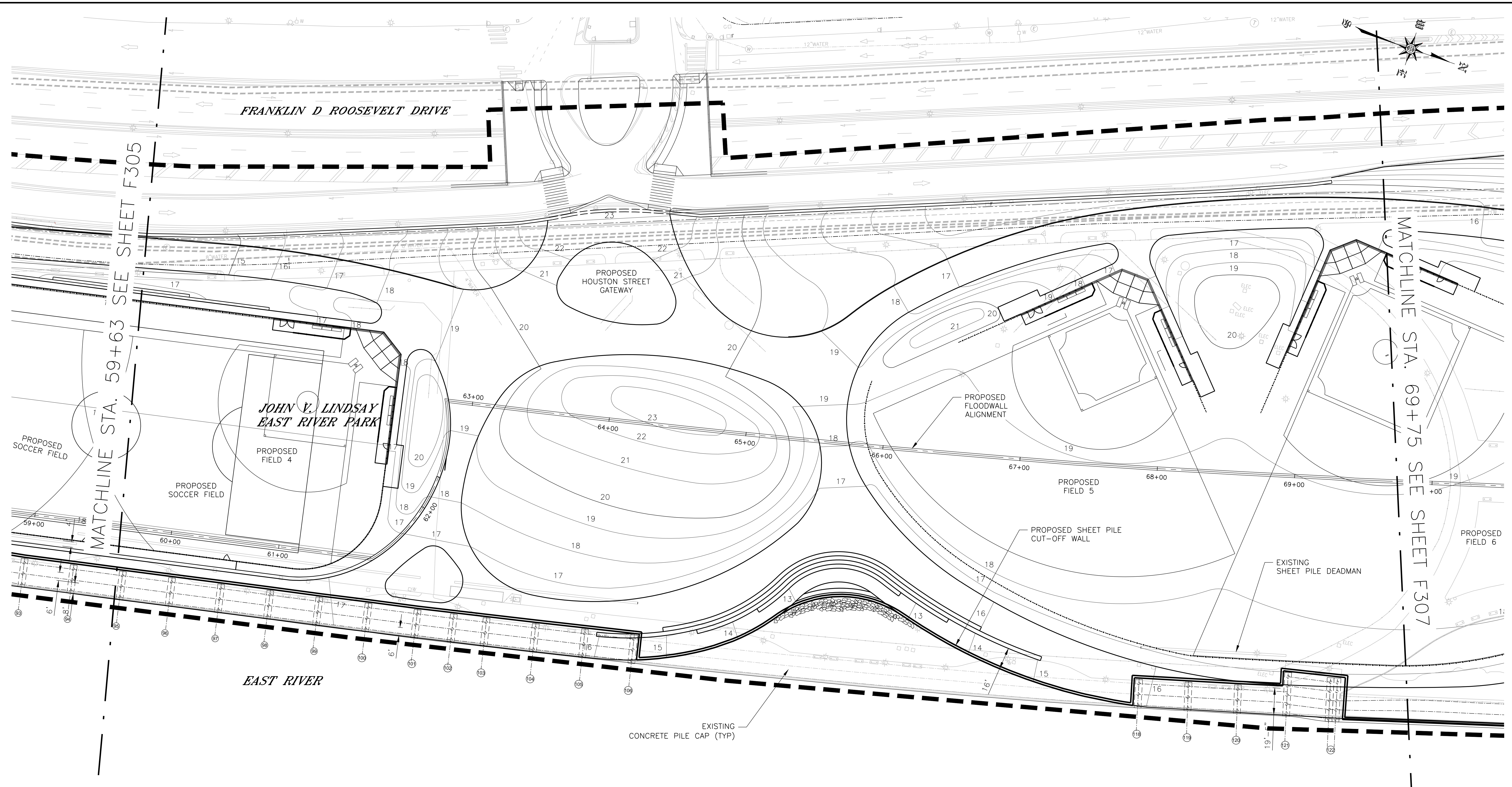
NO.	DATE	DESCRIPTIONS REVISIONS	BY	APPR'D

**INSTALLATION OF  
EAST SIDE COASTAL RESILIENCY**  
BOROUGH OF MANHATTAN

CAPITAL PROJECT NO. SANDRESM1 1/31/19 SHEET 109 OF 811 F305



CONCEPTUAL REDESIGN SUBMISSION 1/31/2019



**CONCEPTUAL**  
SUBMITTED DATE: 1/31/2019

**LEGEND:**  
 LIMITS OF WORK

- NOTES:**
1. ALL ITEMS CALLED OUT AS EXISTING ARE TO REMAIN UNLESS NOTED OTHERWISE.
  2. REFER TO SHEETS PW300-PW315 FOR SHARED USE PATH PLAN.
  3. REFER TO SHEETS LG300-LG315 FOR SITE AND GRADING PLAN.
  4. REFER TO SHEETS LL300-LL315 FOR LAYOUT PLAN.
  5. REFER TO SHEETS LM300-LM315 FOR MATERIALS PLAN.
  6. REFER TO SHEETS LP300-LP315 FOR PLANTING PLAN.
  7. REFER TO SHEETS LS300-LS315 FOR SOILS PLAN.
  8. REFER TO SHEETS E300-E302 FOR ELECTRICAL PLAN.
  9. REFER TO SHEETS P300-P313 FOR PLUMBING PLAN.

TOPOGRAPHIC SURVEY PREPARED BY: FOR SURVEYOR  
 INFORMATION SEE SURVEY SET SU100 DRAWINGS SERIES

FINAL DESIGN SUBMITTED BY: 	FINAL DESIGN PREPARED BY: 	SIGNATURE _____ DATE _____
--------------------------------	-------------------------------	-------------------------------

CITY OF NEW YORK  
 DEPARTMENT OF DESIGN + CONSTRUCTION  
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 BUREAU OF DESIGN

**FLOODWALL STRUCTURAL PLAN**  
 SEGMENT 2 - REACH G  
 STA. 59+63 - 69+75

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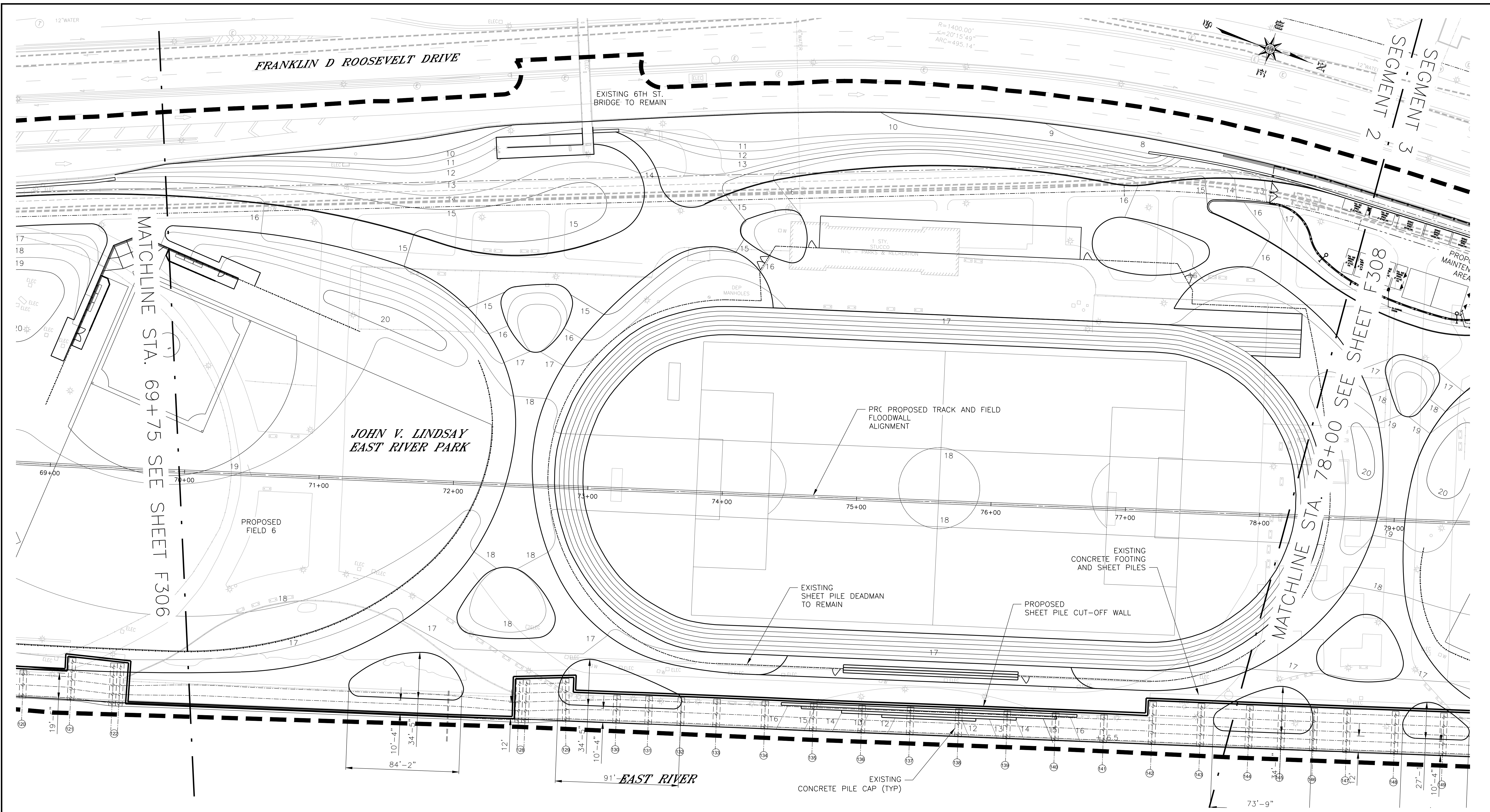
NO.	DATE	DESCRIPTIONS REVISIONS	BY	APPR'D

**INSTALLATION OF EAST SIDE COASTAL RESILIENCY**  
 BOROUGH OF MANHATTAN

CAPITAL PROJECT NO. SANDRESM1 1/31/19	SHEET 110 OF 811	F306
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CONCEPTUAL REDESIGN SUBMISSION 1/31/2019



**LEGEND:**  
 --- LIMITS OF WORK

**NOTES:**

1. ALL ITEMS CALLED OUT AS EXISTING ARE TO REMAIN UNLESS NOTED OTHERWISE.
2. REFER TO SHEETS PW300-PW315 FOR SHARED USE PATH PLAN.
3. REFER TO SHEETS LG300-LG315 FOR SITE AND GRADING PLAN.
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9. REFER TO SHEETS P300-P313 FOR PLUMBING PLAN.

**CONCEPTUAL**  
 SUBMITTED DATE: 1/31/2019

TOPOGRAPHIC SURVEY PREPARED BY: FOR SURVEYOR  
 INFORMATION SEE SURVEY SET SU100 DRAWINGS SERIES

FINAL DESIGN SUBMITTED BY:  
**AKRF KSE**  
 The AKRF-KSE JV

FINAL DESIGN PREPARED BY:  
**ch2m**  
 CH2M HILL NEW YORK, INC.  
 NAME OF CONSULTANT

SIGNATURE \_\_\_\_\_  
 DATE \_\_\_\_\_

CITY OF NEW YORK  
 DEPARTMENT OF DESIGN + CONSTRUCTION  
 DIVISION OF INFRASTRUCTURE  
 BUREAU OF DESIGN

FLOODWALL STRUCTURAL PLAN  
 SEGMENT 2 - REACH H  
 STA. 69+75 - 78+00

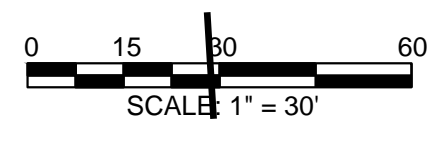
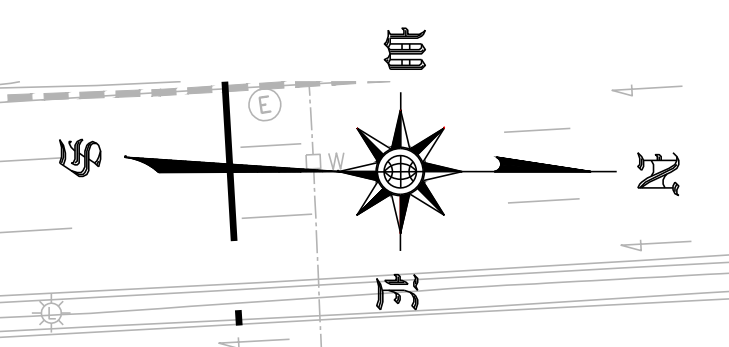
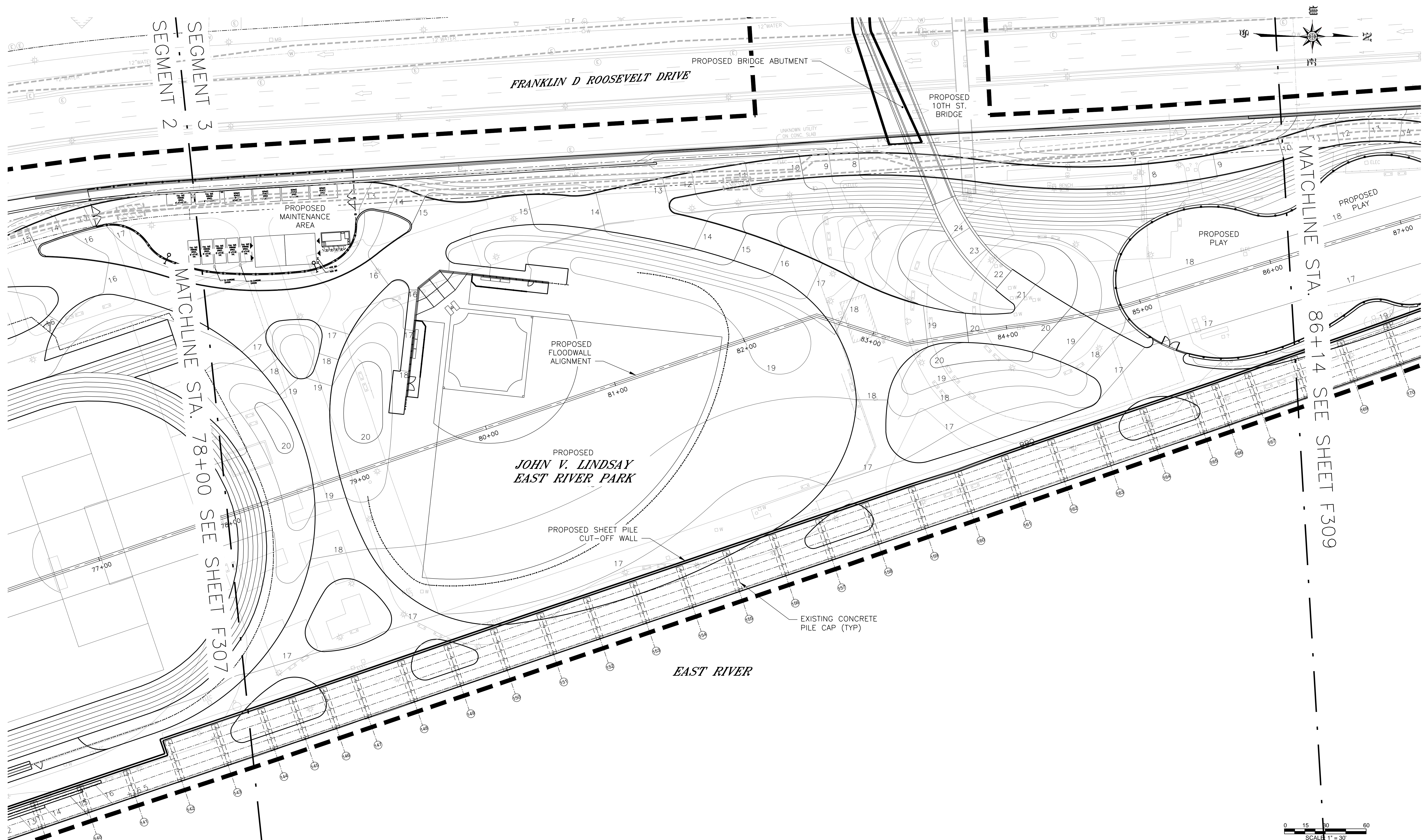
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 CADD FILE

NO.	DATE	DESCRIPTIONS REVISIONS	BY	APPR'D

CAPITAL PROJECT NO. SANDRESM1 1/31/19 SHEET 111 OF 811 F307



CONCEPTUAL REDESIGN SUBMISSION 1/31/2019



**CONCEPTUAL**  
SUBMITTED DATE: 1/31/2019

**LEGEND:**

--- LIMITS OF WORK

**NOTES:**

1. ALL ITEMS CALLED OUT AS EXISTING ARE TO REMAIN UNLESS NOTED OTHERWISE.
2. REFER TO SHEETS PW300-PW315 FOR SHARED USE PATH PLAN.
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6. REFER TO SHEETS LP300-LP315 FOR PLANTING PLAN.
7. REFER TO SHEETS LS300-LS315 FOR SOILS PLAN.
8. REFER TO SHEETS E300-E302 FOR ELECTRICAL PLAN.
9. REFER TO SHEETS P300-P313 FOR PLUMBING PLAN.

TOPOGRAPHIC SURVEY PREPARED BY: FOR SURVEYOR  
INFORMATION SEE SURVEY SET SU100 DRAWINGS SERIES

FINAL DESIGN SUBMITTED BY:  
  
The AKRF-KSE JV

FINAL DESIGN PREPARED BY:  
  
CH2M HILL NEW YORK, INC.  
NAME OF CONSULTANT

SIGNATURE \_\_\_\_\_  
DATE \_\_\_\_\_

CITY OF NEW YORK  
DEPARTMENT OF DESIGN + CONSTRUCTION  
DIVISION OF INFRASTRUCTURE  
BUREAU OF DESIGN

FLOODWALL STRUCTURAL PLAN  
SEGMENT 3 - REACH i  
STA. 78+00 - 86+14

CH2M DRAWN BY \_\_\_\_\_  
SANDRESM1-F308-00.DWG  
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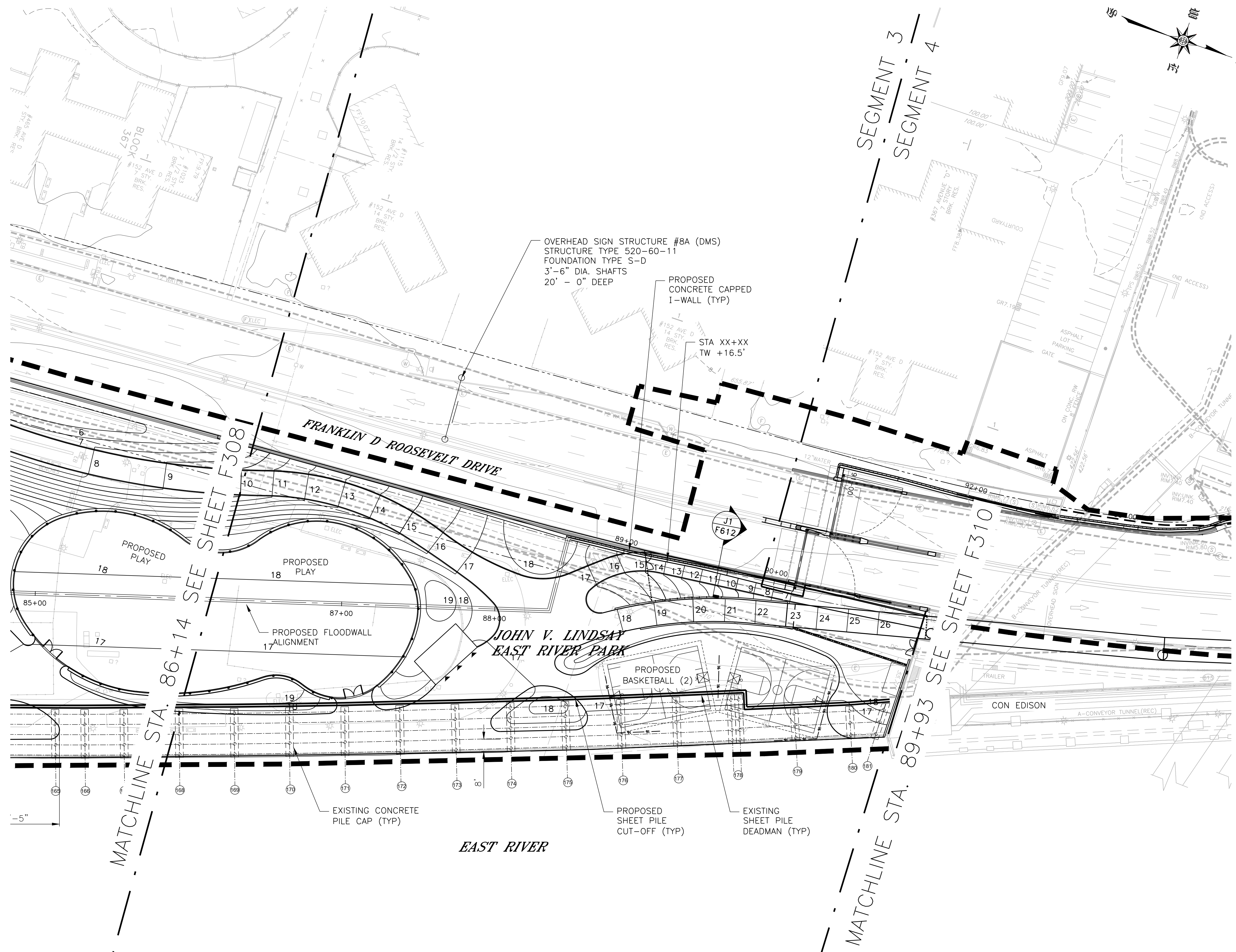
NO.	DATE	DESCRIPTIONS REVISIONS	BY	APPR'D

INSTALLATION OF  
EAST SIDE COASTAL RESILIENCY  
BOROUGH OF MANHATTAN

CAPITAL PROJECT NO. SANDRESM1 1/31/19 SHEET 112 OF 811 F308

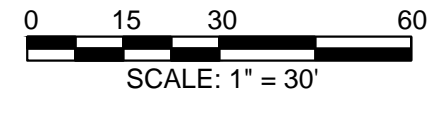


CONCEPTUAL REDESIGN SUBMISSION 1/31/2019



**LEGEND:**  
 - - - - - LIMITS OF WORK

- NOTES:**
1. ALL ITEMS CALLED OUT AS EXISTING ARE TO REMAIN UNLESS NOTED OTHERWISE.
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**CONCEPTUAL**  
 SUBMITTED DATE: 1/31/2019

NO.	DATE	DESCRIPTIONS	BY	APPR'D

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 INFORMATION SEE SURVEY SET SU100 DRAWINGS SERIES

FINAL DESIGN SUBMITTED BY:  
 The AKRF-KSE JV

FINAL DESIGN PREPARED BY:  
 CH2M HILL NEW YORK, INC.  
 NAME OF CONSULTANT: \_\_\_\_\_  
 SIGNATURE: \_\_\_\_\_  
 DATE: \_\_\_\_\_

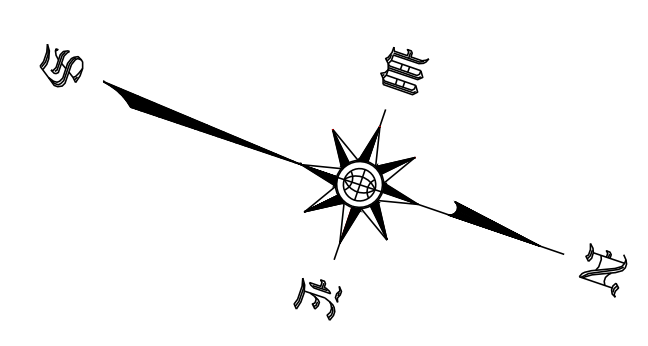
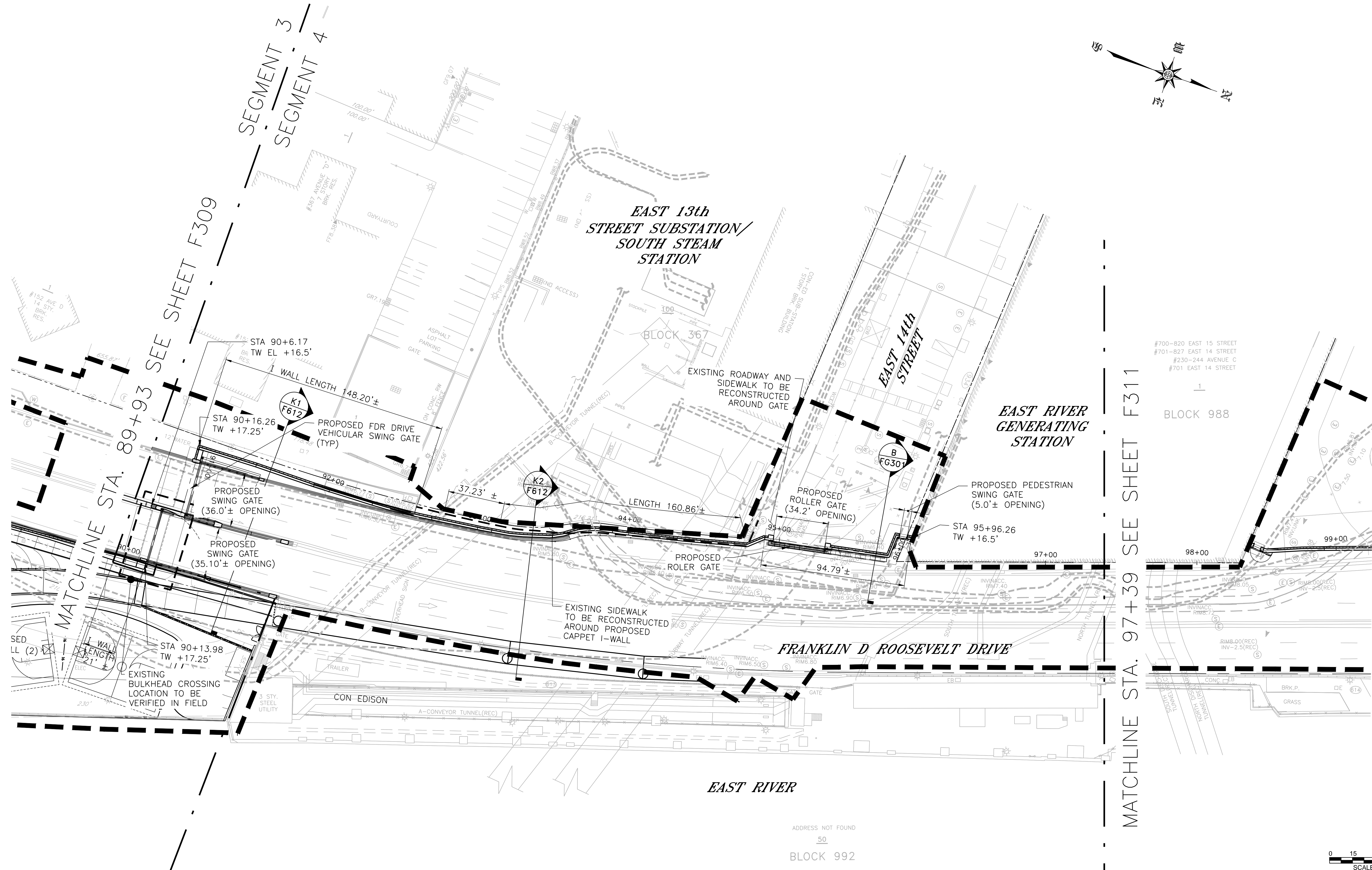
CITY OF NEW YORK  
 DEPARTMENT OF DESIGN + CONSTRUCTION  
 DIVISION OF INFRASTRUCTURE  
 BUREAU OF DESIGN

FLOODWALL STRUCTURAL PLAN  
 SEGMENT 3 - REACH J  
 STA. 86+14 - 89+93  
 CH2M DRAWN BY: \_\_\_\_\_  
 SANDRESM1-F309-00.DWG  
 CADD FILE

INSTALLATION OF  
 EAST SIDE COASTAL RESILIENCY  
 BOROUGH OF MANHATTAN  
 CAPITAL PROJECT NO. SANDRESM1 1/31/19  
 SHEET 113 OF 811  
 F309



CONCEPTUAL REDESIGN SUBMISSION 1/31/2019



MATCHLINE STA. 89+93 SEE SHEET F309

MATCHLINE STA. 97+39 SEE SHEET F311

**LEGEND:**  
 --- LIMITS OF WORK

- NOTES:**
1. ALL ITEMS CALLED OUT AS EXISTING ARE TO REMAIN UNLESS NOTED OTHERWISE.
  2. REFER TO SHEETS PW300-PW315 FOR SHARED USE PATH PLAN.
  3. REFER TO SHEETS LG300-LG315 FOR SITE AND GRADING PLAN.
  4. REFER TO SHEETS LL300-LL315 FOR LAYOUT PLAN.
  5. REFER TO SHEETS LM300-LM315 FOR MATERIALS PLAN.
  6. REFER TO SHEETS LP300-LP315 FOR PLANTING PLAN.
  7. REFER TO SHEETS LS300-LS315 FOR SOILS PLAN.
  8. REFER TO SHEETS E300-E302 FOR ELECTRICAL PLAN.
  9. REFER TO SHEETS P300-P313 FOR PLUMBING PLAN.



**CONCEPTUAL**  
 SUBMITTED DATE: 1/31/2019

TOPOGRAPHIC SURVEY PREPARED BY: FOR SURVEYOR  
 INFORMATION SEE SURVEY SET SU100 DRAWINGS SERIES

FINAL DESIGN SUBMITTED BY: 	FINAL DESIGN PREPARED BY: 	SIGNATURE _____ DATE _____
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CITY OF NEW YORK  
 DEPARTMENT OF DESIGN + CONSTRUCTION  
 DIVISION OF INFRASTRUCTURE  
 BUREAU OF DESIGN

FLOODWALL STRUCTURAL PLAN  
 SEGMENT 4 - REACH K  
 STA. 89+93 - 97+39

CH2M DRAWN BY \_\_\_\_\_ SANDRESM1-F310-00.DWG  
 CADD FILE

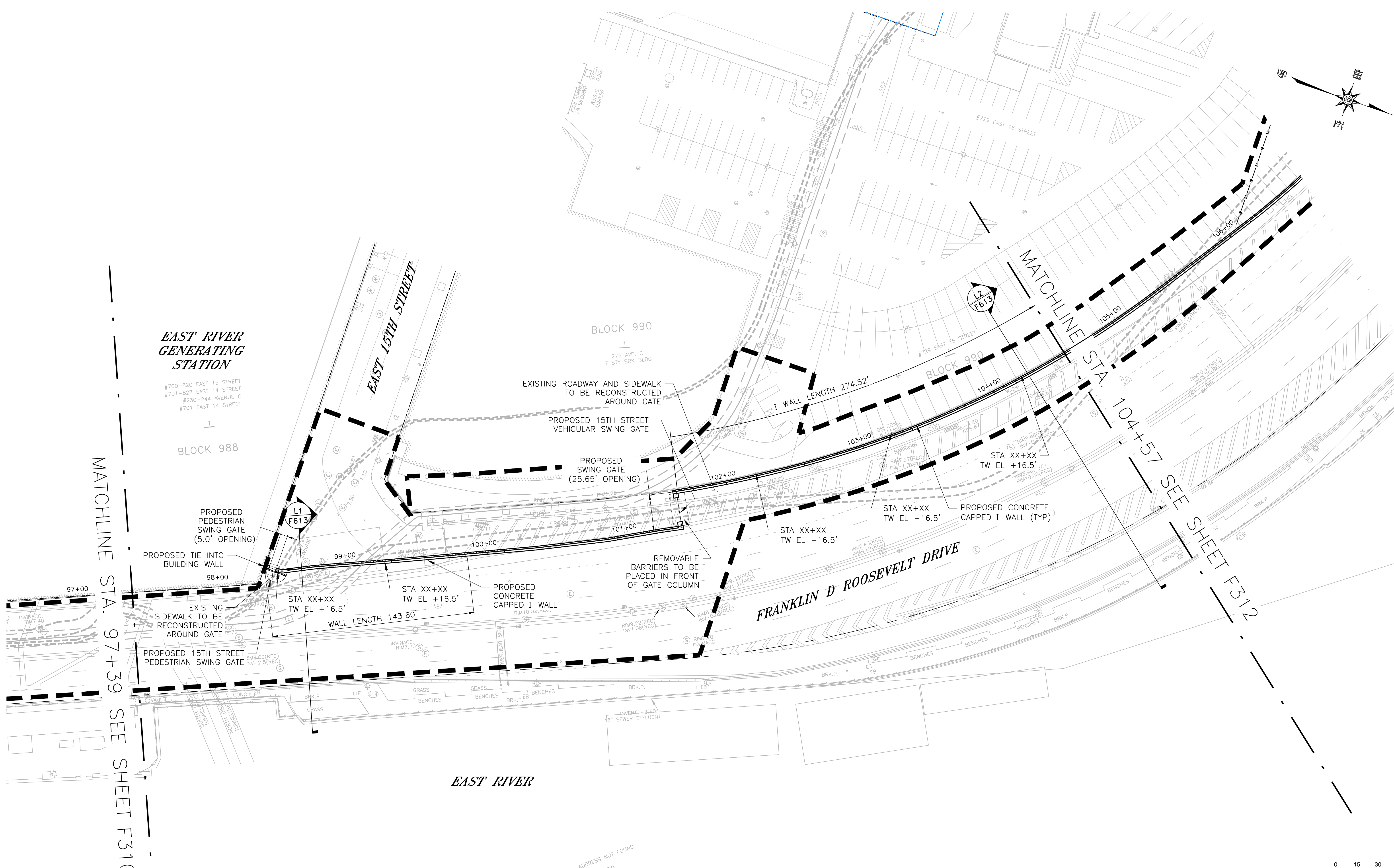
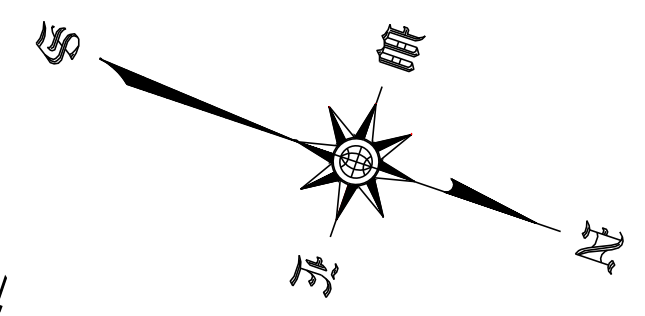
NO.	DATE	DESCRIPTIONS	BY	APPR'D

**INSTALLATION OF  
 EAST SIDE COASTAL RESILIENCY**  
 BOROUGH OF MANHATTAN

CAPITAL PROJECT NO. SANDRESM1 1/31/19 SHEET 114 OF 811 F310



CONCEPTUAL REDESIGN SUBMISSION 1/31/2019



MATCHLINE STA. 97+39 SEE SHEET F310

MATCHLINE STA. 104+57 SEE SHEET F312

**LEGEND:**  
 - - - - - LIMITS OF WORK

**NOTES:**

1. ALL ITEMS CALLED OUT AS EXISTING ARE TO REMAIN UNLESS NOTED OTHERWISE.
2. REFER TO SHEETS PW300-PW315 FOR SHARED USE PATH PLAN.
3. REFER TO SHEETS LG300-LG315 FOR SITE AND GRADING PLAN.
4. REFER TO SHEETS LL300-LL315 FOR LAYOUT PLAN.
5. REFER TO SHEETS LM300-LM315 FOR MATERIALS PLAN.
6. REFER TO SHEETS LP300-LP315 FOR PLANTING PLAN.
7. REFER TO SHEETS LS300-LS315 FOR SOILS PLAN.
8. REFER TO SHEETS E300-E302 FOR ELECTRICAL PLAN.
9. REFER TO SHEETS P300-P313 FOR PLUMBING PLAN.



**CONCEPTUAL**  
 SUBMITTED DATE: 1/31/2019

TOPOGRAPHIC SURVEY PREPARED BY: FOR SURVEYOR  
 INFORMATION SEE SURVEY SET SU100 DRAWINGS SERIES

FINAL DESIGN SUBMITTED BY:  
 The AKRF-KSE JV

FINAL DESIGN PREPARED BY:  
 CH2M HILL NEW YORK, INC.  
 NAME OF CONSULTANT: \_\_\_\_\_  
 SIGNATURE: \_\_\_\_\_  
 DATE: \_\_\_\_\_

CITY OF NEW YORK  
 DEPARTMENT OF DESIGN + CONSTRUCTION  
 DIVISION OF INFRASTRUCTURE  
 BUREAU OF DESIGN

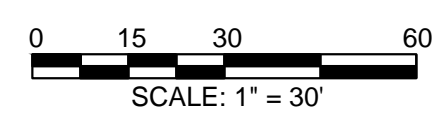
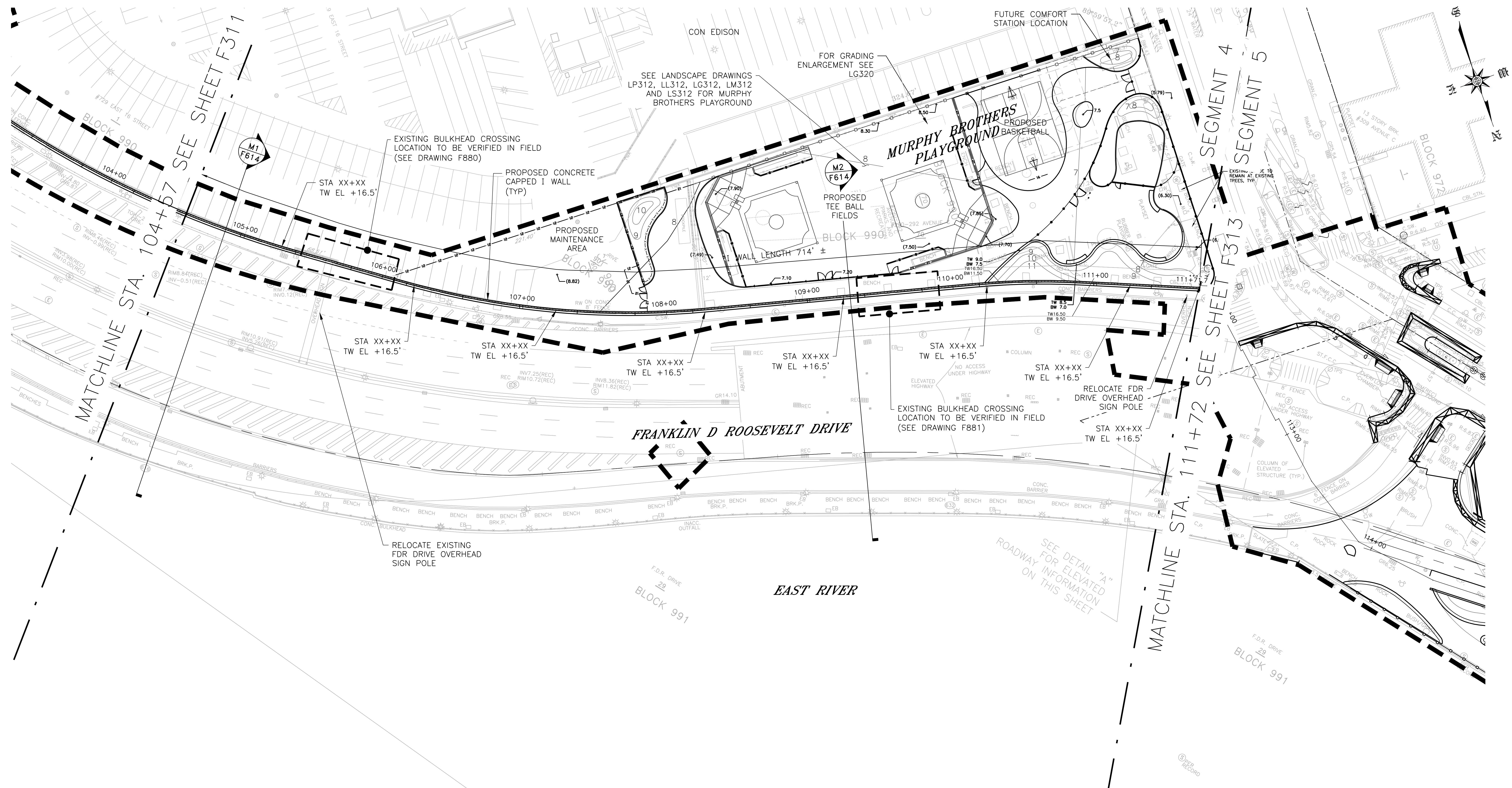
STRUCTURAL PLAN  
 SEGMENT 4 - REACH L  
 STA. 97+39 - 104+57  
 CH2M DRAWN BY: \_\_\_\_\_  
 SANDRESM1-F311-00.DWG  
 CADD FILE

NO.	DATE	DESCRIPTIONS	BY	APPR'D

**INSTALLATION OF EAST SIDE COASTAL RESILIENCY**  
 BOROUGH OF MANHATTAN

CAPITAL PROJECT NO. SANDRESM1 1/31/19 SHEET 115 OF 811 F311





**LEGEND:**  
 LIMITS OF WORK

**NOTES:**

1. ALL ITEMS CALLED OUT AS EXISTING ARE TO REMAIN UNLESS NOTED OTHERWISE.
2. REFER TO SHEETS PW300-PW315 FOR SHARED USE PATH PLAN.
3. REFER TO SHEETS LG300-LG315 FOR SITE AND GRADING PLAN.
4. REFER TO SHEETS LL300-LL315 FOR LAYOUT PLAN.
5. REFER TO SHEETS LM300-LM315 FOR MATERIALS PLAN.
6. REFER TO SHEETS LP300-LP315 FOR PLANTING PLAN.
7. REFER TO SHEETS LS300-LS315 FOR SOILS PLAN.
8. REFER TO SHEETS E300-E302 FOR ELECTRICAL PLAN.
9. REFER TO SHEETS P300-P313 FOR PLUMBING PLAN.

**CONCEPTUAL**  
 SUBMITTED DATE: 1/31/2019

TOPOGRAPHIC SURVEY PREPARED BY: FOR SURVEYOR  
 INFORMATION SEE SURVEY SET SU100 DRAWINGS SERIES

FINAL DESIGN SUBMITTED BY:  
 The AKRF-KSE JV

FINAL DESIGN PREPARED BY:  
 CH2M HILL NEW YORK, INC.  
 NAME OF CONSULTANT

SIGNATURE \_\_\_\_\_  
 DATE \_\_\_\_\_

CITY OF NEW YORK  
 DEPARTMENT OF DESIGN + CONSTRUCTION  
 DIVISION OF INFRASTRUCTURE  
 BUREAU OF DESIGN

FLOODWALL STRUCTURAL PLAN  
 SEGMENT 4 - REACH M  
 STA. 104+57 - 111+72

CH2M DRAWN BY \_\_\_\_\_ SANDRESM1-F312-00.DWG  
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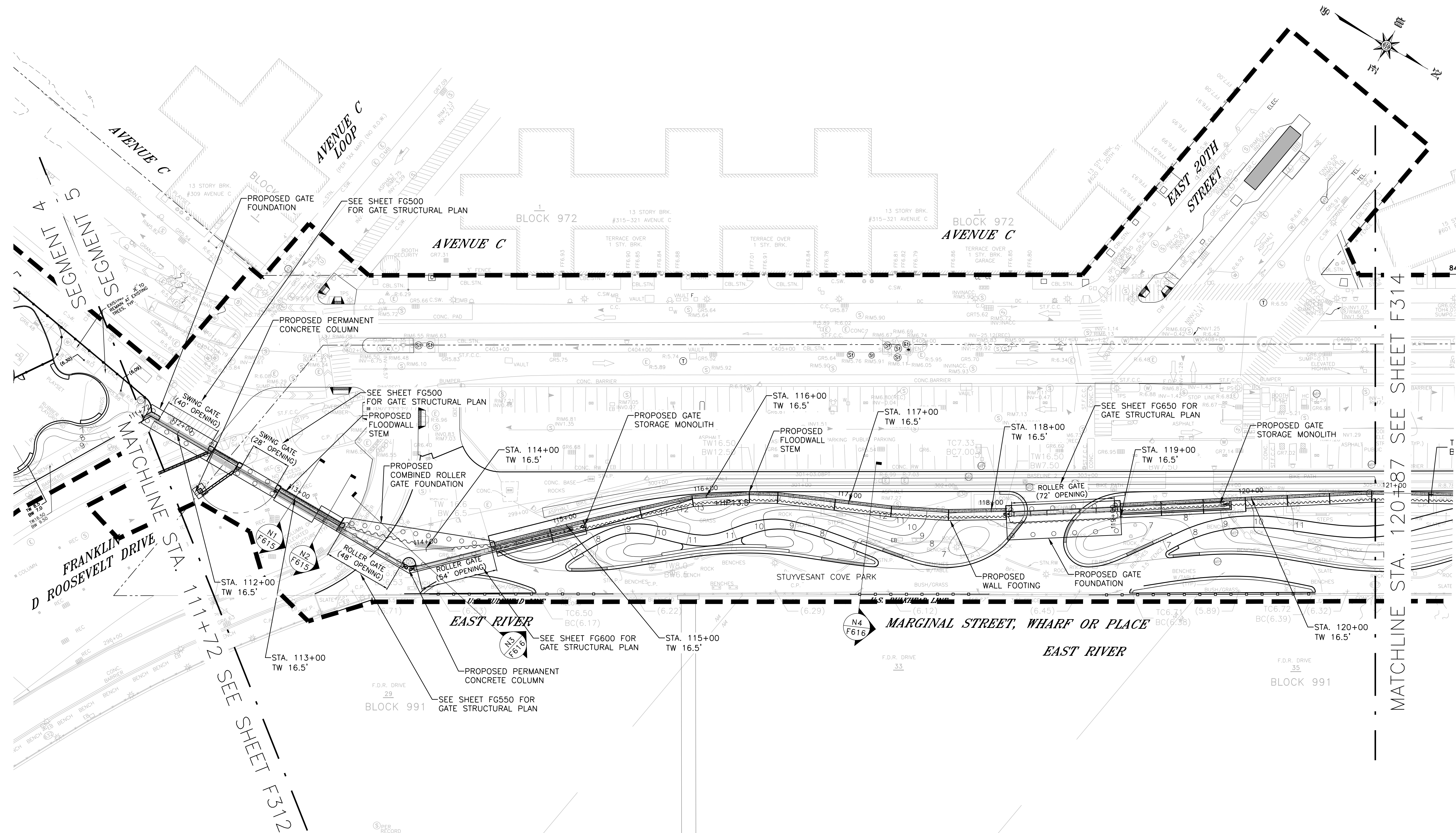
NO.	DATE	DESCRIPTIONS REVISIONS	BY	APPR'D

INSTALLATION OF  
 EAST SIDE COASTAL RESILIENCY  
 BOROUGH OF MANHATTAN

CAPITAL PROJECT NO. SANDRESM1 1/31/19 SHEET 116 OF 811 F312



CONCEPTUAL REDESIGN SUBMISSION 1/31/2019



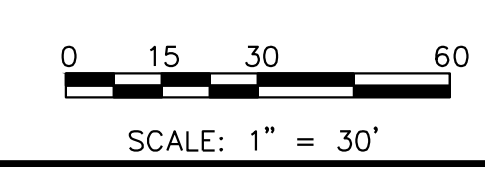
**LEGEND:**  
 - - - - - LIMITS OF WORK  
 [ ] JET GROUT ZONE



**NOTES:**

1. ALL ITEMS CALLED OUT AS EXISTING ARE TO REMAIN UNLESS NOTED OTHERWISE.
2. REFER TO SHEETS PW300-PW315 FOR SHARED USE PATH PLAN.
3. REFER TO SHEETS LG300-LG315 FOR SITE PLAN AND GRADING.
4. REFER TO SHEETS LL300-LL315 FOR LAYOUT PLAN.
5. REFER TO SHEETS LM300-LM315 FOR MATERIALS PLAN.
6. REFER TO SHEETS LP300-LP315 FOR PLANTING PLAN.
7. REFER TO SHEETS LS300-LS315 FOR SOILS PLAN.
8. REFER TO SHEETS E300-E302 FOR ELECTRICAL PLAN.
9. REFER TO SHEETS P300-P313 FOR PLUMBING PLAN.

**CONCEPTUAL**  
 SUBMITTED DATE: 1/31/2019



NO.	DATE	DESCRIPTIONS REVISIONS	BY	APPR'D

TOPOGRAPHIC SURVEY PREPARED BY: FOR SURVEYOR  
 INFORMATION SEE SURVEY SET SU100 DRAWINGS SERIES

FINAL DESIGN SUBMITTED BY:  
  
 The AKRF-KSE JV

FINAL DESIGN PREPARED BY:  
  
 ARCADIS OF NEW YORK, INC.  
 NAME OF CONSULTANT

SIGNATURE \_\_\_\_\_  
 DATE \_\_\_\_\_

CITY OF NEW YORK  
 DEPARTMENT OF DESIGN + CONSTRUCTION  
 DIVISION OF INFRASTRUCTURE  
 BUREAU OF DESIGN

STRUCTURAL PLAN  
 SEGMENT 5 - REACH N  
 STA. 111+72 - 120+87

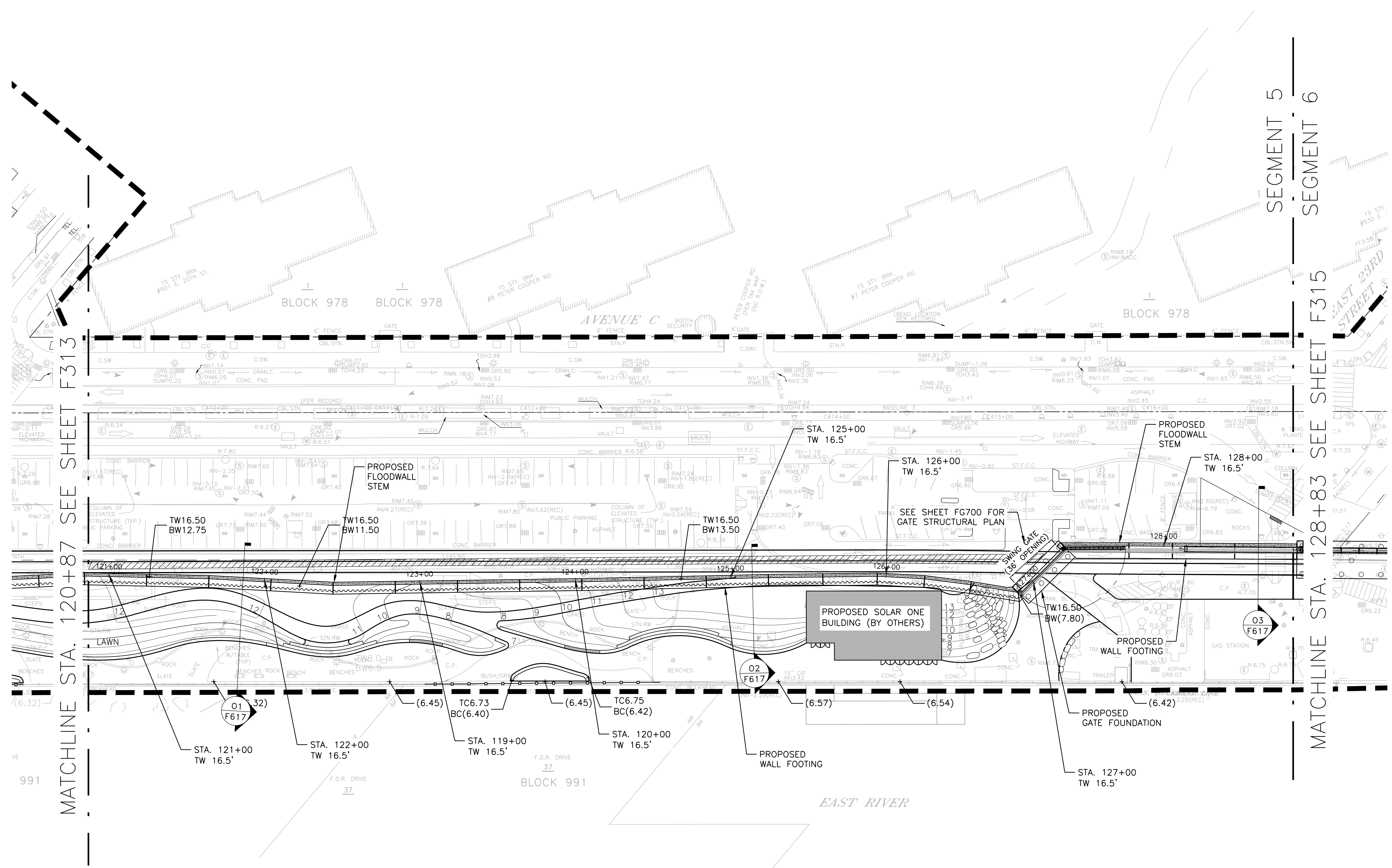
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INSTALLATION OF  
 EAST SIDE COASTAL RESILIENCY  
 BOROUGH OF MANHATTAN

CAPITAL PROJECT NO. SANDRESM1 1/31/19 SHEET 117 OF 811 F313



CONCEPTUAL REDESIGN SUBMISSION 1/31/2019



MATCHLINE STA. 120+87 SEE SHEET F313

MATCHLINE STA. 128+83 SEE SHEET F315

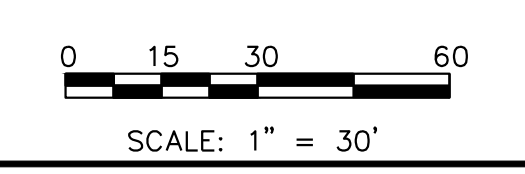
SEGMENT 5  
SEGMENT 6

**LEGEND:**  
 LIMITS OF WORK  
 JET GROUT ZONE

**NOTES:**

1. ALL ITEMS CALLED OUT AS EXISTING ARE TO REMAIN UNLESS NOTED OTHERWISE.
2. REFER TO SHEETS PW300-PW315 FOR SHARED USE PATH PLAN.
3. REFER TO SHEETS LG300-LG315 FOR SITE PLAN AND GRADING.
4. REFER TO SHEETS LL300-LL315 FOR LAYOUT PLAN.
5. REFER TO SHEETS LM300-LM315 FOR MATERIALS PLAN.
6. REFER TO SHEETS LP300-LP315 FOR PLANTING PLAN.
7. REFER TO SHEETS LS300-LS315 FOR SOILS PLAN.
8. REFER TO SHEETS E300-E302 FOR ELECTRICAL PLAN.
9. REFER TO SHEETS P300-P313 FOR PLUMBING PLAN.

**CONCEPTUAL**  
 SUBMITTED DATE: 1/31/2019



TOPOGRAPHIC SURVEY PREPARED BY: FOR SURVEYOR  
 INFORMATION SEE SURVEY SET SU100 DRAWINGS SERIES

FINAL DESIGN SUBMITTED BY:  
  
 The AKRF-KSE JV

FINAL DESIGN PREPARED BY:  
  
 ARCADIS OF NEW YORK, INC.  
 NAME OF CONSULTANT  
 SIGNATURE \_\_\_\_\_  
 DATE \_\_\_\_\_

CITY OF NEW YORK  
 DEPARTMENT OF DESIGN + CONSTRUCTION  
 DIVISION OF INFRASTRUCTURE  
 BUREAU OF DESIGN

STRUCTURAL PLAN  
 SEGMENT 5 - REACH 0  
 STA. 120+87 - 128+83  
 ARCADIS DRAWN BY \_\_\_\_\_ SANDRESM1-F314-00.DWG  
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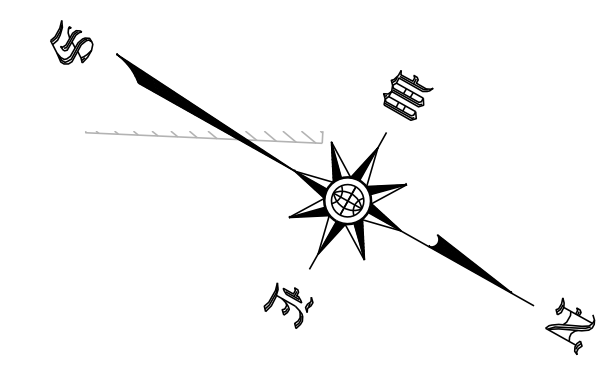
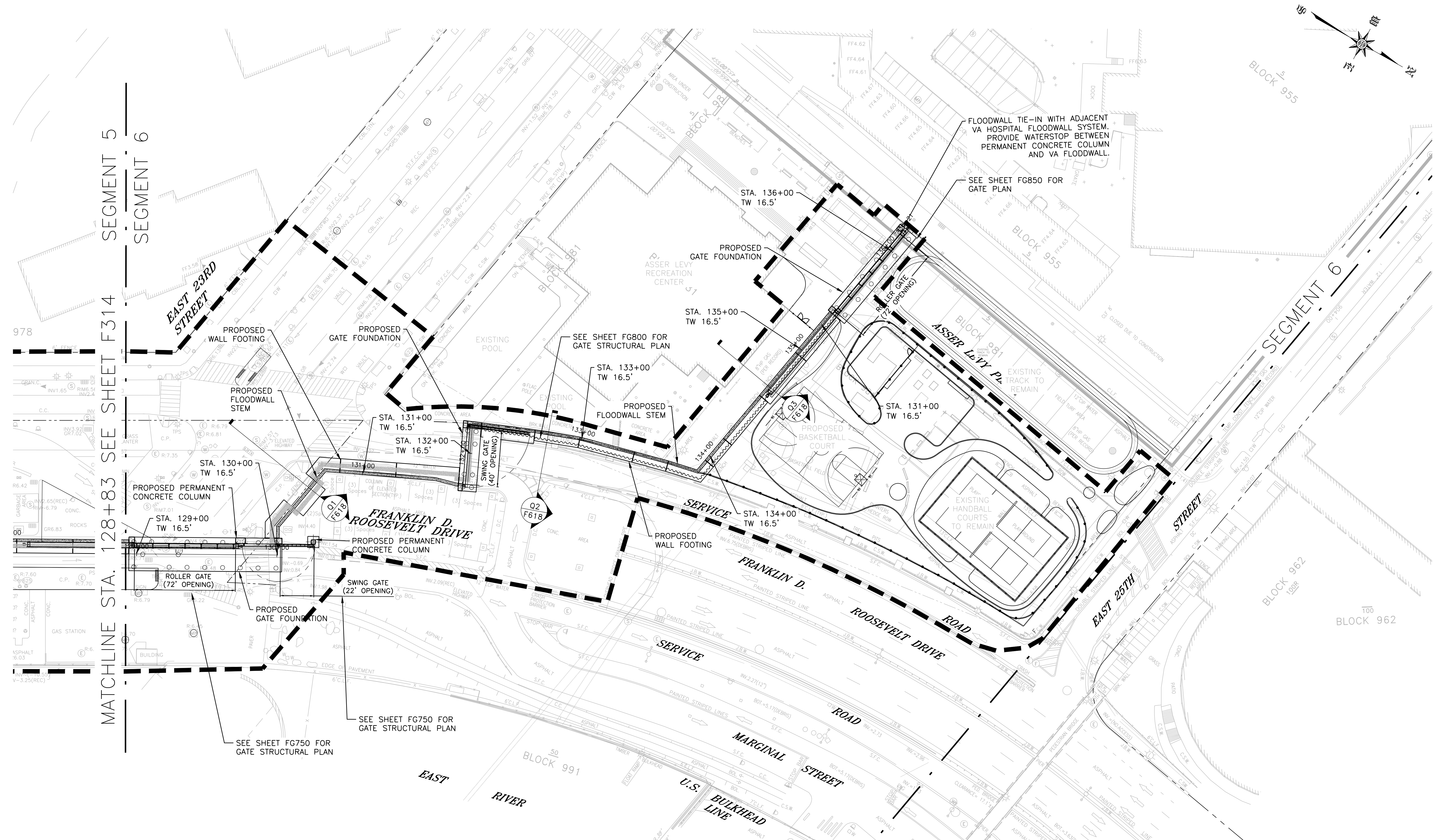
NO.	DATE	DESCRIPTIONS REVISIONS	BY	APPR'D

INSTALLATION OF  
 EAST SIDE COASTAL RESILIENCY  
 BOROUGH OF MANHATTAN

CAPITAL PROJECT NO. SANDRESM1 1/31/19    SHEET 118 OF 811    F314



CONCEPTUAL REDESIGN SUBMISSION 1/31/2019



**LEGEND:**  
 - - - - - LIMITS OF WORK  
 □ JET GROUT ZONE

**NOTES:**

1. ALL ITEMS CALLED OUT AS EXISTING ARE TO REMAIN UNLESS NOTED OTHERWISE.
2. REFER TO SHEETS PW300-PW315 FOR SHARED USE PATH PLAN.
3. REFER TO SHEETS LG300-LG315 FOR SITE PLAN AND GRADING.
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5. REFER TO SHEETS LM300-LM315 FOR MATERIALS PLAN.
6. REFER TO SHEETS LP300-LP315 FOR PLANTING PLAN.
7. REFER TO SHEETS LS300-LS315 FOR SOILS PLAN.
8. REFER TO SHEETS E300-E302 FOR ELECTRICAL PLAN.
9. REFER TO SHEETS P300-P313 FOR PLUMBING PLAN.

**CONCEPTUAL**  
 SUBMITTED DATE: 1/31/2019

0 15 30 60  
 SCALE: 1" = 30'

TOPOGRAPHIC SURVEY PREPARED BY: FOR SURVEYOR  
 INFORMATION SEE SURVEY SET SU100 DRAWINGS SERIES

FINAL DESIGN SUBMITTED BY:  
 The AKRF-KSE JV

FINAL DESIGN PREPARED BY:  
 ARCADIS OF NEW YORK, INC.  
 NAME OF CONSULTANT: \_\_\_\_\_  
 SIGNATURE: \_\_\_\_\_  
 DATE: \_\_\_\_\_

CITY OF NEW YORK  
 DEPARTMENT OF DESIGN + CONSTRUCTION  
 DIVISION OF INFRASTRUCTURE  
 BUREAU OF DESIGN

**FLOODWALL STRUCTURAL PLAN**  
 SEGMENT 6 - REACH Q  
 STA. 128+83 - 136+21

ARCADIS DRAWN BY: \_\_\_\_\_ SANDRESM1-F315-00.DWG  
 CADD FILE

NO.	DATE	DESCRIPTIONS REVISIONS	BY	APPR'D

**INSTALLATION OF  
 EAST SIDE COASTAL RESILIENCY**  
 BOROUGH OF MANHATTAN

CAPITAL PROJECT NO. SANDRESM1 1/31/19 SHEET 119 OF 811 F315