

GENERAL WORK SCOPE:

THIS ALTERNATE INCLUDES THE FOLLOWING WORK ITEMS TO BE PAID FOR AS LUMP SUM. ANY QUANTITIES SHOWN IN THE PLANS SHALL BE CONSIDERED AS ENGINEERING ESTIMATES ONLY. THE CONTRACTOR IS RESPONSIBLE TO DETERMINE HIS/HER OWN QUANTITIES REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT.

1. CONSTRUCTION OF A STEEL SHEET PILE WALL AND CONCRETE CAP.
2. DEMOLITION OF EXISTING ROCK WALL AND PARTIAL DEMOLITION OF DEADMAN WALL.
3. PLACE GRANULAR MATERIAL BEHIND SHEET PILE WALL AND ERODED AREAS.
4. RE-GRADE AND PLACE SOD IN AREA BETWEEN SHEET PILE WALL AND LAKEFRONT TRAIL.

GENERAL NOTES:

1. ILLINOIS DEPARTMENT OF TRANSPORTATION - STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (IDOT SSRBC) ADOPTED APRIL 1, 2016 SHALL GOVERN UNLESS OTHERWISE NOTED IN THE PLANS OR SPECIAL PROVISIONS.
2. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "C.U.A.N" (CHICAGO UTILITY ALERT NETWORK) AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES (48 HOUR NOTIFICATION REQUIRED).
3. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE CITY OF CHICAGO. THE PLANS DO NOT REPRESENT A COMPLETE DEPICTION OF ALL UTILITIES THAT MAY BE IMPACTED BY THE PROPOSED WORK. THE CONTRACTOR SHALL PERFORM AN INDEPENDENT INVESTIGATION TO DETERMINE THE OWNERSHIP OF IMPACTED UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY OWNERS AND MAY BE REQUIRED TO PROVIDE TEMPORARY SUPPORT, ADJUST, RELOCATE, OR REMOVE UTILITIES THAT ARE IMPACTED BY THE PROPOSED IMPROVEMENT. THIS SHALL BE INCLUDED IN THE LUMP SUM BID PRICE.
4. EXISTING UTILITIES SHOWN ON THE PLANS ARE SHOWN FOR GENERAL ORIENTATION ONLY. LOCATIONS ARE APPROXIMATE AND MAY NOT INCLUDE ALL EXISTING UTILITIES AND UTILITY STRUCTURES.
5. THE CONTRACTOR SHALL NOT SCALE DIMENSIONS FROM THE CONTRACT PLANS FOR CONSTRUCTION PURPOSES.
6. THE CONTRACTOR SHALL EXERCISE CAUTION DURING ALL OPERATIONS TO PREVENT ANY DAMAGE TO THE EXISTING PARK ELEMENTS NOT WITHIN THE SCOPE OF THIS PROJECT. PARK ELEMENTS THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED AT THE EXPENSE OF THE CONTRACTOR.
7. THE CONTRACTOR SHALL REMOVE ALL CONSTRUCTION DEBRIS AND TRASH FROM THE PROJECT SITE UNLESS OTHERWISE APPROVED BY THE CHICAGO PARK DISTRICT IN WRITING.
8. THESE CONTRACT DOCUMENTS HAVE BEEN PREPARED BASED ON FIELD INSPECTION, EXISTING PLANS, AND OTHER INFORMATION AVAILABLE AT THE TIME. ACTUAL FIELD CONDITIONS MAY REQUIRE CHANGES TO CONSTRUCTION DETAILS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE PLAN DIMENSIONS AND DETAILS IN THE FIELD AND MAKE NECESSARY (APPROVED BY THE PARK DISTRICT) ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS.
9. THE CONTRACTOR MUST PROTECT AND CAREFULLY PRESERVE ALL PERMANENT SURVEY MONUMENTS, BENCHMARKS, OR PROPERTY MARKERS WHICH ARE ENCOUNTERED DURING THE COURSE OF HIS/HER WORK. IF IT IS NECESSARY TO REMOVE ANY SUCH MONUMENT OR MARKER, THE CITY OF CHICAGO COMMISSIONER MUST BE NOTIFIED PRIOR TO REMOVAL. THE CONTRACTOR MUST PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE CITY OF CHICAGO COMMISSIONER, AN AUTHORIZED SURVEYOR, OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS. ANY SUCH MONUMENT OR MARKER WHICH HAS BEEN DISTURBED BY THE CONTRACTOR MUST BE RESET BY A REGISTERED PROFESSIONAL LAND SURVEYOR TO THE SATISFACTION OF THE COMMISSIONER AND AT NO ADDITIONAL EXPENSE.
10. ALL ELEVATIONS REFER TO THE CHICAGO CITY DATUM, WHICH IS 579.88 FEET ABOVE MEAN SEA LEVEL, 1935 ADJUSTMENT.

CONSTRUCTION SPECIFICATIONS

1. ILLINOIS DEPARTMENT OF TRANSPORTATION - STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (IDOT SSRBC) ADOPTED APRIL 1, 2016
2. ILLINOIS DEPARTMENT OF TRANSPORTATION - SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS ADOPTED JANUARY 1, 2020

MATERIAL PROPERTIES

CEMENTITIOUS MATERIALS:
 CAST-IN-PLACE CONCRETE SHALL BE PORTLAND CEMENT SUITABLE FOR MARINE EXPOSURE WITH A MINIMUM COMPRESSION STRENGTH (f'c) = 4000 PSI @ 28 DAYS

REINFORCING STEEL:
 REINFORCING STEEL SHALL BE ASTM A706 GRADE 60. EPOXY COATING SHALL BE IN ACCORDANCE WITH ASTM A775.

STEEL SHEET PILING:
 SHEET PILING SHALL BE ASTM A572 GRADE 50 STEEL.

SOIL EROSION AND SEDIMENT CONTROL NOTES

1. THE CONTRACTOR SHALL CONSTRUCT ALL SOIL AND SEDIMENT CONTROL MEASURES AT THE COMMENCEMENT OF THE PROJECT AND PROVIDE MAINTENANCE AND ASSURE ITS EFFECTIVENESS IN TRAPPING SEDIMENT THROUGHOUT THE TERM OF THE PROJECT.
2. ALL OTHER SPOILS, INCLUDING ORGANIC AND INORGANIC SOILS, VEGETATION AND DEBRIS SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND STATE REGULATIONS.
3. SILT FENCING SHALL BE PLACED WHERE NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE SITE. THE GEOTEXTILE SILT FENCING FABRIC SHALL BE IN ACCORDANCE WITH SECTION 1080 OF THE STANDARD SPECIFICATIONS.
4. THE CONTRACTOR IS TO TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL EROSION AND RESULTING DEPOSITION FROM OCCURRING ON OR OFF THE CONSTRUCTION SITE. THE CONTRACTOR IS ADVISED THAT HE/SHE WILL BE RESPONSIBLE FOR ANY AND ALL EROSION AND RESULTING DEPOSITION OCCURRING ON OR OFF THE SITE AS THE RESULT OF CONSTRUCTION ACTIVITIES AND WILL BE DIRECTED BY THE ENGINEER TO CORRECT THE PROBLEM TO THE SATISFACTION OF THE PARK DISTRICT AND AT THE CONTRACTOR'S EXPENSE.
5. STREETS ADJACENT TO THE PARK SHALL BE KEPT FREE OF DIRT, MUD AN DEBRIS.

PERMITS

1. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO COMMENCING CONSTRUCTION.
2. PERMITS FROM THE FOLLOWING AGENCIES WILL BE SECURED BY THE CHICAGO PARK DISTRICT:
 - US ARMY CORPS OF ENGINEERS (USACE) REGIONAL PERMIT.
 - ILLINOIS DEPARTMENT OF NATURAL RESOURCES (IDNR), OFFICE OF WATER RESOURCES
 - ILLINOIS ENVIRONMENTAL PROTECTION AGENCY (IEPA)
 - CHICAGO DEPARTMENT OF TRANSPORTATION (CDOT) HARBOR PERMIT
3. OFFICE OF UNDERGROUND COORDINATION (OUC) FOR THE EXISTING FACILITY PROTECTION REVIEW IS NOT REQUIRED. NO UTILITIES ARE ANTICIPATED TO BE IN CONFLICT.
4. THE CONTRACTOR MAY BE REQUIRED TO SUBMIT A SOIL EROSION AND SEDIMENT CONTROL PLAN FOR REVIEW AND INSPECTION TO THE WILL/SOUTH COOK SOIL AND WATER CONSERVATION DISTRICT (SWCD) AS A REQUIREMENT USACE REGIONAL PERMIT. THE PERMIT FEE WILL BE PAID FOR BY THE CHICAGO PARK DISTRICT.



CHICAGO PARK DISTRICT
 541 NORTH FAIRBANKS
 Chicago, Illinois 60611

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 Chicago, IL 60661
 Tel: (312) 704-3300
 Fax: (312) 704-3320
 www.collins-engineers.com
 ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-000993

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REVISIONS	DATE

PROJECT MANAGER
PROJECT ENGINEER
DIRECTOR OF ENGINEERING

PROJ. MGR.: AMS
DESIGNER: ELN
DRAWN: ELN
CHECKED: AMS
SCALE: As Shown
DATE: 07/31/2020
SPEC. NO.: P16015-086
JOB NO.: 7416.04

SHEET INFORMATION

JACKSON OUTER HARBOR
 GENERAL NOTES

PARK NO./PROJECT NO.
 PARK 0019
 16015-086
 02
 DRAWING NO.
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CHICAGO PARK DISTRICT
 541 NORTH FAIRBANKS
 Chicago, Illinois 60611

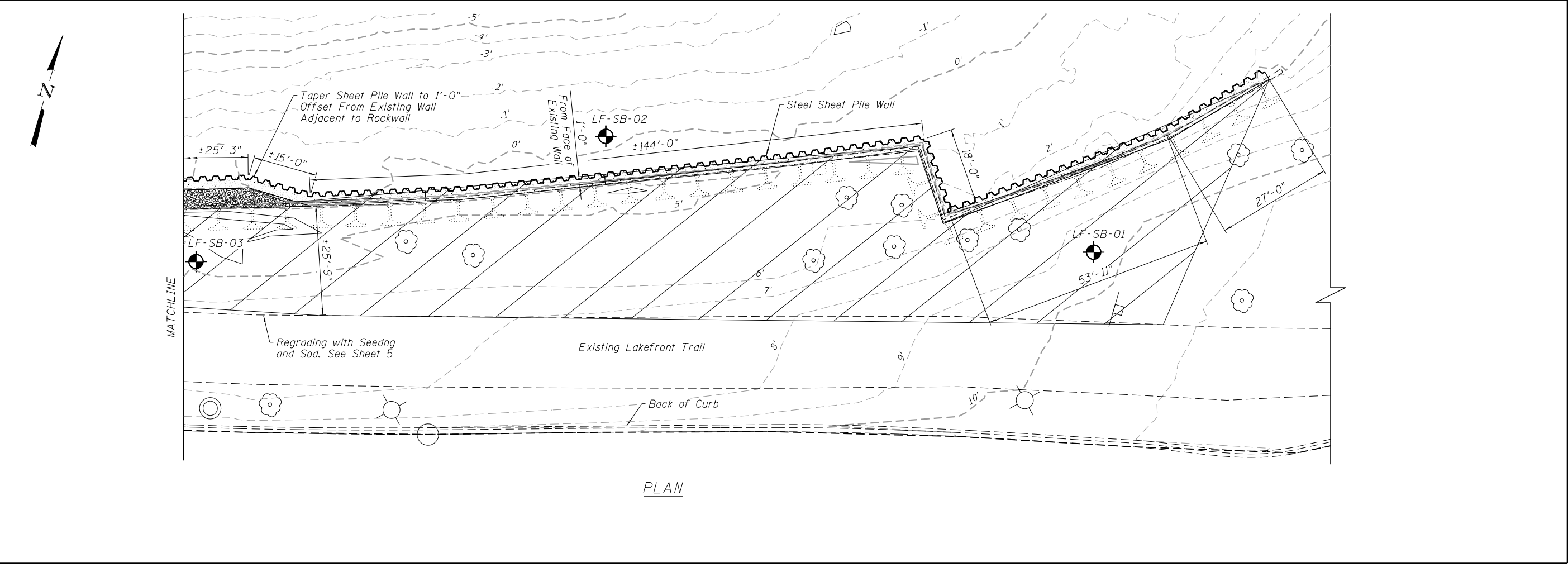
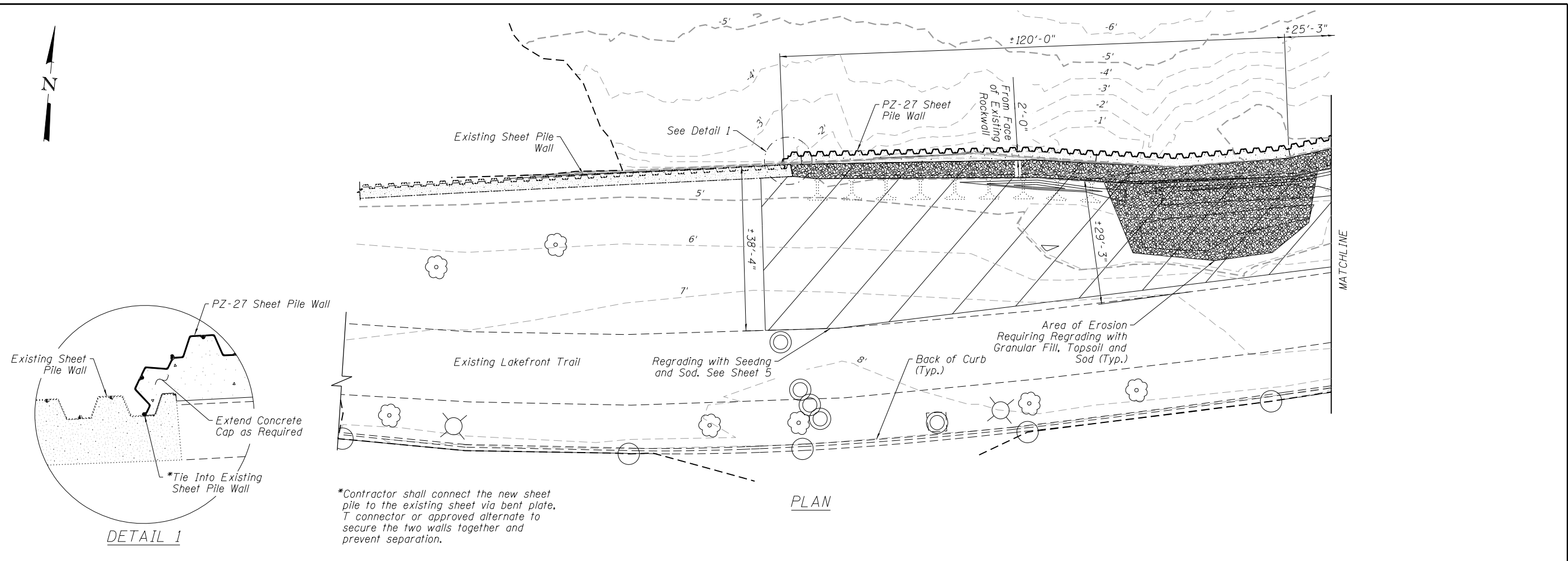
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REVISIONS	DATE

PROJECT MANAGER	
DESIGNER	
DRAWN	
CHECKED	
SCALE	As Shown
DATE	07/31/2020
SPEC. NO.	P16015-086
JOB NO.	7416.04
SHEET INFORMATION	

JACKSON OUTER HARBOR
 PROPOSED PLAN

PARK NO./PROJECT NO.
 PARK 0019
 16015-086
04
 DRAWING NO.
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CHICAGO
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DISTRICT

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SHEET TO BE ADDED AS AN ADDENDUM

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A

REVISIONS DATE

PROJECT MANAGER

PROJECT MANAGER

DIRECTOR OF ENGINEERING

PROJ. MGR.: AMS

DESIGNER: ELN

DRAWN: ELN

CHECKED: AMS

SCALE: As Shown

DATE: 07/31/2020

SPEC. NO.: P16015-086

JOB NO.: 7416.04

SHEET INFORMATION

JACKSON OUTER HARBOR
GRADING PLAN

PARK NO./PROJECT NO.

PARK 0019
16015-086

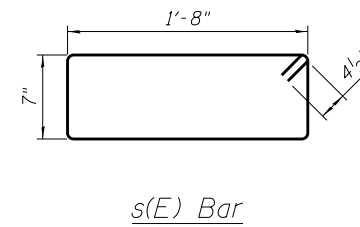
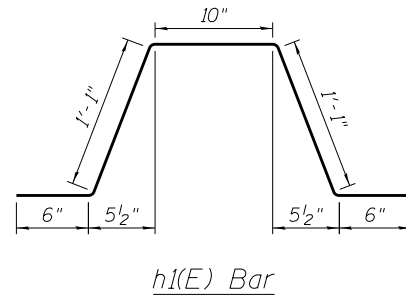
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DRAWING NO.

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ESTIMATED BILL OF MATERIALS

Bar	No.	Size	Length	Shape
h(E)	18	#4	28'-0"	—
h1(E)	6	#4	17'-8"	—
h2(E)	48	#4	38'-0"	—
h3(E)	6	#4	15'-0"	—
h4(E)	128	#4	4'-0"	⌒
s(E)	420	#4	5'-3"	▭
Reinforcement Bars, Epoxy Coated			Pound	3,450
Concrete Structures			Cu. Yd.	37
Stud Shear Connectors			Each	256
Permanent Sheet Piling			Sq. Ft.	12,098



Notes:

- All reinforcement shall be epoxy coated.
- Reinforcement bar detailing shall be in accordance with ACI 315 and ACI 318.



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COLLINS ENGINEERS

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REVISIONS DATE

PROJECT MANAGER
PROJECT MANAGER
DIRECTOR OF ENGINEERING

PROJ. MGR.: AMS
DESIGNER: ELN
DRAWN: ELN
CHECKED: AMS
SCALE: As Shown
DATE: 07/31/2020
SPEC. NO.: P16015-086
JOB NO.: 7416.04

SHEET INFORMATION

JACKSON OUTER HARBOR
STEEL DETAILS

PARK NO./PROJECT NO.

PARK 0019
16015-086

07

DRAWING NO.

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REVISIONS DATE

PROJECT MANAGER
PROJECT MANAGER
DIRECTOR OF DRILLING

PROJ. MGR.: AMS
DESIGNER: ELN
DRAWN: ELN
CHECKED: AMS

SCALE: As Shown

DATE: 07/31/2020

SPEC. NO.: P16015-086

JOB NO.: 7416.04

SHEET INFORMATION

JACKSON OUTER HARBOR
SOIL BORINGS

PARK NO./PROJECT NO.

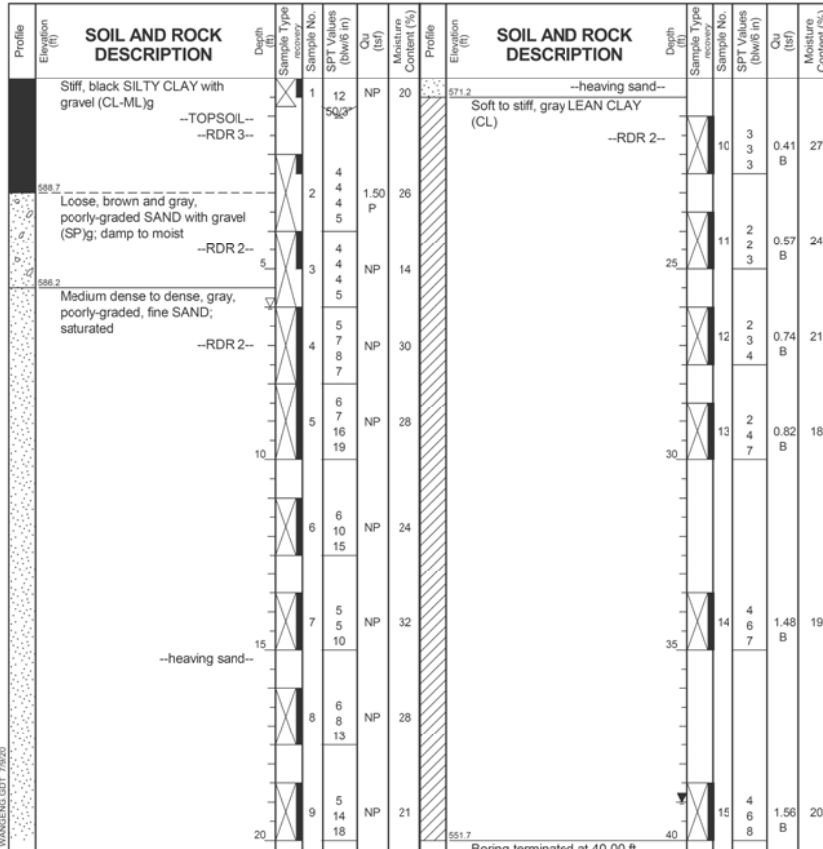
PARK 0019
16015-086

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DRAWING NO.

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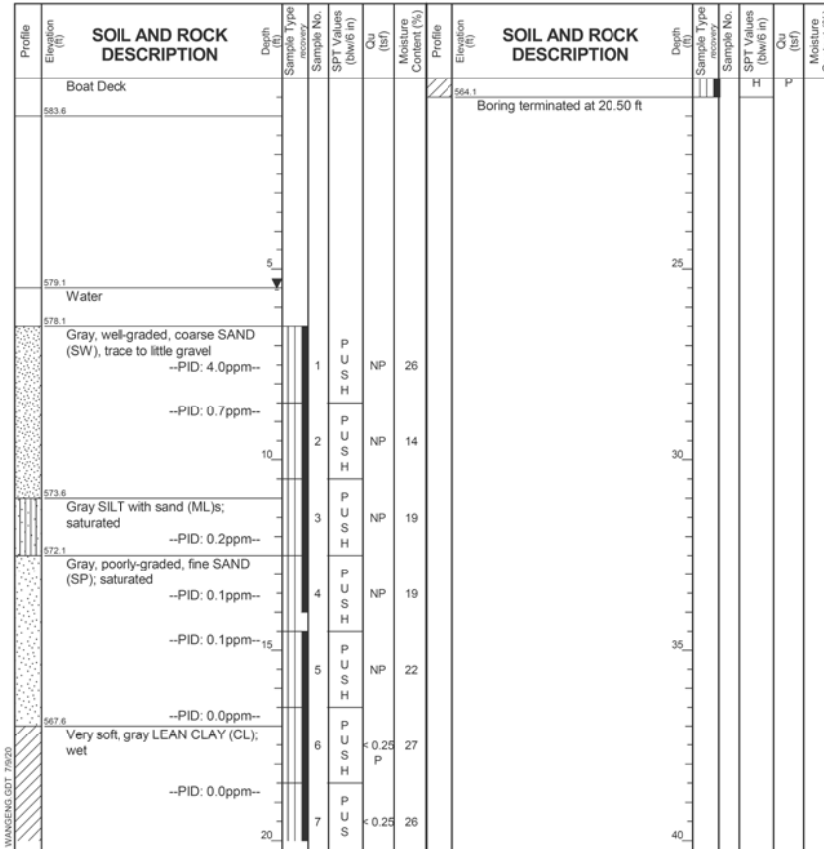
Wang Engineering
BORING LOG LF-SB-01
Wang Job No.: 486-28-01
Client: Collins Engineering, Inc.
Project: South Shoreline
Location: Chicago, Illinois
Datum: NAVD 88
Elevation: 591.07 ft
North: 1861800.55 ft
East: 1191928.54 ft
Station: NA
Offset: NA



GENERAL NOTES
Begin Drilling 06-12-2020 Complete Drilling 06-12-2020
Drilling Contractor Wang Testing Services Drill Rig 18D25A [85%]
Driller NC&KG Logger M. Sadowski Checked by CLM (-lab)
Drilling Method 2.25" HSA, boring backfilled upon completion

WATER LEVEL DATA
While Drilling 6.00 ft
At Completion of Drilling 39.00 ft
Time After Drilling NA
Depth to Water NA

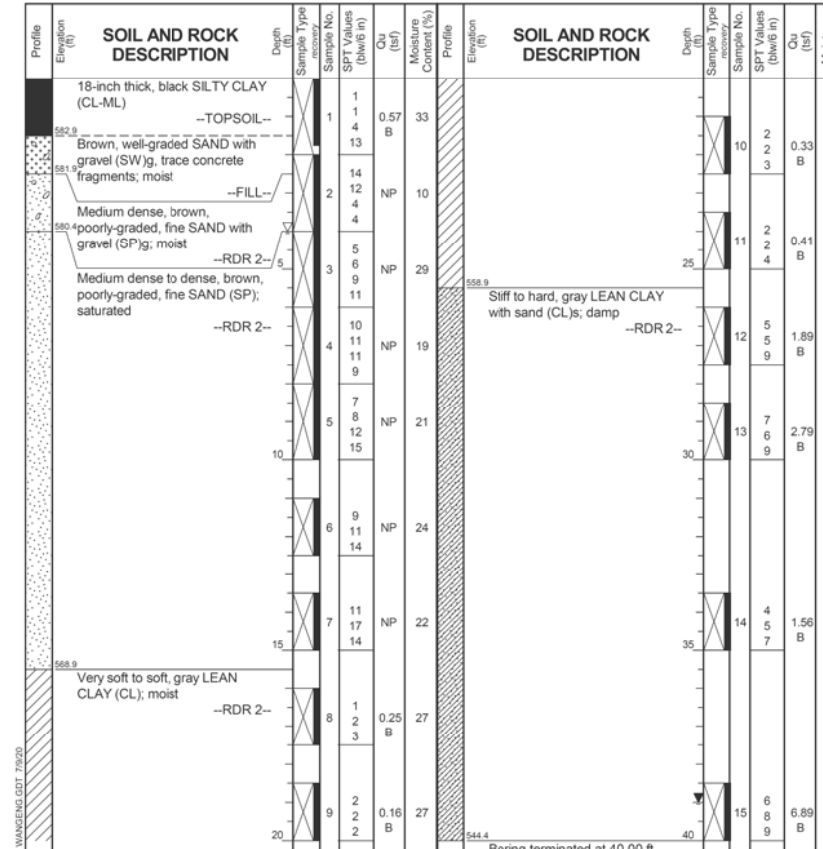
Wang Engineering
BORING LOG LF-SB-02
Wang Job No.: 486-28-01
Client: Collins Engineering, Inc.
Project: South Shoreline
Location: Chicago, Illinois
Datum: NAVD 88
Elevation: 504.63 ft
North: 1861781.30 ft
East: 1191798.98 ft
Station: NA
Offset: NA



GENERAL NOTES
Begin Drilling 06-18-2020 Complete Drilling 06-18-2020
Drilling Contractor Wang Testing Services Drill Rig GEOPROBE
Driller NC&KG Logger F. Bozga Checked by CLM (-lab)
Drilling Method 1" IDA Pneumatic Geoprobe LB Sampler

WATER LEVEL DATA
While Drilling 5.50 ft
At Completion of Drilling 5.50 ft
Time After Drilling NA
Depth to Water NA

Wang Engineering
BORING LOG LF-SB-03
Wang Job No.: 486-28-01
Client: Collins Engineering, Inc.
Project: South Shoreline
Location: Chicago, Illinois
Datum: NAVD 88
Elevation: 504.41 ft
North: 1861725.56 ft
East: 1191724.88 ft
Station: NA
Offset: NA



GENERAL NOTES
Begin Drilling 06-12-2020 Complete Drilling 06-12-2020
Drilling Contractor Wang Testing Services Drill Rig 18D25A [85%]
Driller NC&KG Logger M. Sadowski Checked by CLM (-lab)
Drilling Method 2.25" HSA, boring backfilled upon completion

WATER LEVEL DATA
While Drilling 4.00 ft
At Completion of Drilling 39.00 ft
Time After Drilling NA
Depth to Water NA

SOIL BORINGS