



DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, CHICAGO DISTRICT
231 SOUTH LA SALLE STREET, SUITE 1500
CHICAGO IL 60604

April 02, 2024

Environmental & Cultural Resources
Planning Branch

**SUBJECT: Federal Consistency Determination for Morgan Shoal Revetment
Reconstruction (45th – 51st Streets), Cook County, Illinois**

Cody Eskew
Illinois Department of Natural Resources
Coastal Management Program
Michael A. Bilandic Building
160 N. La Salle Street, Suite 703
Chicago, Illinois 60601
Cody.eskew@Illinois.gov

Dear Mr. Eskew:

The Chicago District of the U.S. Army Corps of Engineers (USACE) proposes to cost share in the reconstruction of the existing revetment in a portion of the Chicago Shoreline referred to as Morgan Shoal (from approximately 45th to 51st Streets, Enclosure 1) with the City of Chicago. The Morgan Shoal revetment has been damaged by near-record lake levels and storms; temporary emergency repairs occurred in 2020 but the area lacks long-term solutions that will withstand continued wave action during storms and high lake levels. The primary purpose of this federal action is to address ongoing erosion and coastal storm damage that has affected parkland and threatens the stability of Lake Shore Drive within the City of Chicago by installing new revetments that are designed to manage wave attack and flooding potential. The proposed activity complies with State of Illinois' approved Coastal Management Program (CMP) and will be conducted in a manner consistent with such policies. USACE is requesting concurrence from the Illinois Department of Natural Resources' (IDNR) Coastal Management Program.

PROJECT DESCRIPTION (PROPOSED ACTION)

The proposed reconstruction alternative proposes a complete replacement of failing revetment structures within the project area. The new revetment will consist of approximately 3,700 linear feet of rubble mound revetment, 1,000 linear feet of dynamic cobble revetment with underwater breakwater, and 800 linear feet of steel sheet pile and stepped concrete revetment (Enclosure 2). The steel sheet pile and stepped concrete revetment, will only be used around the peninsula at 51st Street. Suitable existing materials would be salvaged for reuse throughout the reach.

The project would modify the shoreline and fill approximately seven acres of Lake Michigan to create usable parkland with headlands and land extension with approximately 310,000 cubic yards of clean fill below the Ordinary High-Water Mark. The new parkland will consist of lawn with some areas planted with native species to increase biodiversity and upland habitat.

Work would be conducted on land with heavy machinery and by barge on the lake. Best management practices such as silt curtains and fencing would be used to minimize potential runoff of sediment into the lake that could cause turbidity and impact fish and aquatic invertebrates. The construction of temporary shoreline and upland structures may be necessary for work and storage areas, barge mooring facility, aggregate platform, access roads, and office facilities. These construction aids would be removed when no longer needed and their sites would be restored to pre-project conditions upon project completion. Temporary construction facilities and activities would occur outside of any wetlands, areas containing federal or state protected species or their critical habitat, or properties listed on or eligible for listing on the National Register of Historic Places or state listed properties. All construction activities would be carried out in accordance with federal and state laws, regulations, and local ordinances.

THREATENED AND ENDANGERED SPECIES

USACE has determined that the Proposed Action will have “No Effect” on the rufa red knot (*Calidris canutus rufa*), eastern massasauga (*Sistrurus catenatus*), Hine’s emerald dragonfly (*Somatochlora hineana*), monarch butterfly (*Danaus plexippus*), eastern prairie fringed orchid (*Platanthera leucophaea*), or leafy prairie-clover (*Dalea foliosa*) due to lack of suitable habitat within the area of the Proposed Action. Trees will be cleared during bat hibernation from October 1 to March 31 and tree removal would be mitigated by planting five trees for each removed tree that is suitable for bat habitat. With these commitments, a “No Effect” determination is appropriate for the northern long-eared bat (*Myotis septentrionalis*) and tricolored bat (*Perimyotis subflavus*).

State listed species potentially present include the black-crowned night heron (*Nycticorax nycticorax*) and longnose sucker (*Catostomus catostomus*). Black-crowned night herons have been observed foraging in the project area but there are no records of breeding pairs present and no suitable breeding habitat exists. Longnose suckers have been caught over Morgan Shoal during their spring breeding season, although it is unlikely that they would utilize the rocky shoreline for spawning due to wave energy. In-water placement of the breakwater near Morgan Shoal may cause temporary impacts to sucker, causing fish to vacate the area due to general construction noise and potential turbidity. Construction impacts would be temporary and negligible and there would be no long-term significant adverse impacts. Additionally, a survey conducted in March 2023 resulted in the capture of three state listed mudpuppies (*Necturus maculosus*) within the project area along the rocky shoreline. Mudpuppies reside in the deeper waters of Lake Michigan during the summer months and migrate inland to overwinter along the rocky shoreline. USACE will perform near-shore work between May 1 and October 31 to avoid impacts to mudpuppies, as recommended by IDNR.

COASTAL ZONE MANAGEMENT ACT (CZMA of 1972)

Since the Proposed Action is within the state boundary on the waterward side of Illinois' coastal zone boundary established under the Illinois' approved coastal management plan, USACE is required to evaluate whether the activity will affect any coastal use or resource under the Coastal Zone Management Act. The Proposed Action includes the reconstruction of the revetment on the Chicago shoreline including sections of rubble mound revetment, dynamic cobble revetment with an underwater breakwater, and of transitional steel sheet pile and stepped concrete revetment. The Proposed Action will ensure long-term protection of the Chicago shoreline, including popular parkland recreation areas and a major transit corridor, Lake Shore Drive.

While minor, temporary impacts to terrestrial and aquatic habitats may occur during construction, the Proposed Action will not result in significant long-term effects. The reconstruction of the revetment would replace the quality of habitat in-kind or add additional habitat. The current state of the degraded limestone block revetment offers many crevices for habitat and the new rubble mound revetment would also offer many crevices between the armor stone. The underwater breakwater would also serve as additional habitat for fishes and aquatic organisms due to the crevices between the armor stone. Portions of new parkland areas will be planted with native species to increase biodiversity and upland habitat, including a 1.7 acres of dune habitat, 1.2 acres of prairie, and 1.4 acres of savannah.

USACE has determined that the proposed repair work complies with Illinois' coastal management program and will be conducted in a manner consistent with such policies. USACE requests concurrence with this Federal Consistency Determination for the project or further guidance on how consistency can be achieved.

We request your concurrence with this determination within 60 days in accordance with the Coastal Zone Management Act. Illinois' concurrence will be presumed if its response is not received within this timeframe plus any extension, if requested, pursuant to 15 CFR 940.41(b). Questions can be submitted to Mr. Andrew J. Miller by email at andrew.j.miller2@usace.army.mil or by phone at (312) 846-5571.

Sincerely,



Alex Hoxsie
Chief, Environmental & Cultural Resources
Planning Branch

Enclosures

1. Project Map
2. Selected Plan Sheets

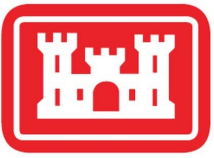


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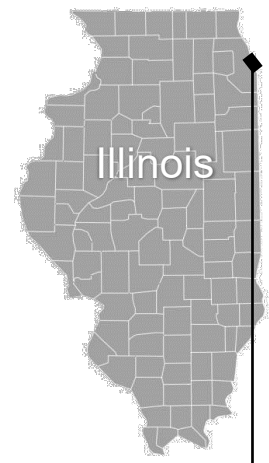
Chicago District
Planning Branch
231 South LaSalle Street
Suite 1500
Chicago, Illinois 60604
312-353-6400

Enclosure 1 – Project Map

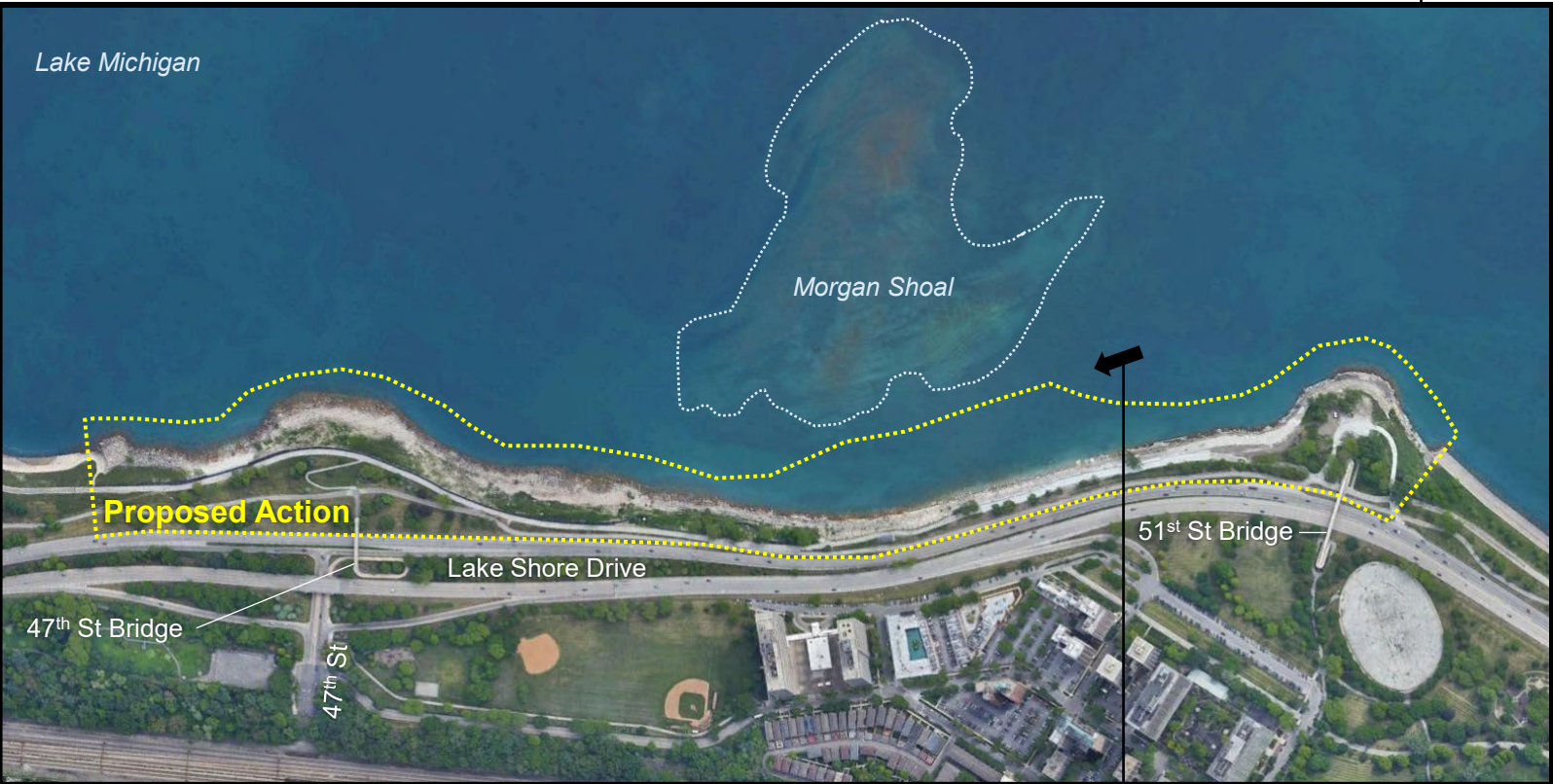
Federal Consistency Determination for Morgan Shoal Revetment
Reconstruction (45th – 51st Streets), Cook County, Illinois



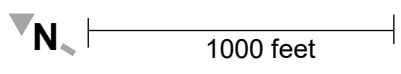
**US Army Corps
of Engineers** ®
Chicago District



Illinois



Aerial photograph from May 2021
★ 41.812903°, -87.589238°



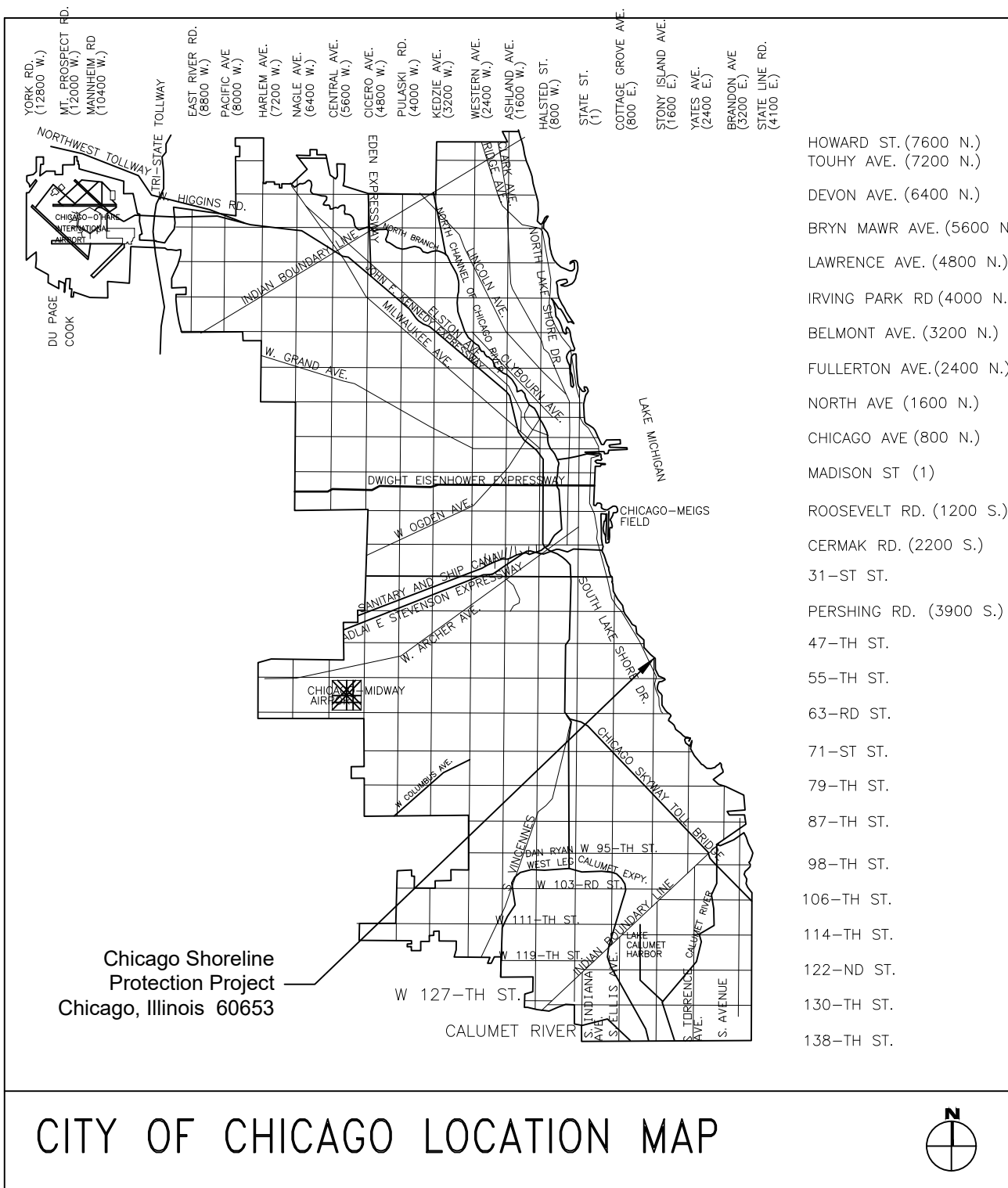


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Planning Branch
231 South LaSalle Street
Suite 1500
Chicago, Illinois 60604
312-353-6400

Enclosure 2 – Select Plan Sheets

Federal Consistency Determination for Morgan Shoal Revetment
Reconstruction (45th – 51st Streets), Cook County, Illinois



CHICAGO SHORELINE PROTECTION PROJECT

MORGAN SHOAL REVETMENT RECONSTRUCTION

45TH STREET TO 51ST STREET

CHICAGO, IL 60653

ISSUE

MARCH 25, 2024



PUBLIC BUILDING COMMISSION OF CHICAGO
BRANDON JOHNSON, MAYOR
RAY GIDEROF, ACTING EXECUTIVE DIRECTOR

CHICAGO PARK DISTRICT
ROSA ESCARENO, GENERAL SUPERINTENDENT AND CEO
MYETIE HAMILTON, PRESIDENT

CHICAGO DEPARTMENT OF TRANSPORTATION
THOMAS CARNEY, COMMISSIONER

NOT FOR CONSTRUCTION



CHICAGO SHORELINE PROTECTION PROJECT
 MORGAN SHOAL REVETMENT RECONSTRUCTION
 45TH STREET TO 51ST STREET
 CHICAGO, IL 60653
 CHICAGO PARK DISTRICT
 CITY OF CHICAGO, MAYOR LORI E. LIGHTFOOT

ARCHITECT OF RECORD

SmithGroup, Inc.
35 East Wacker Drive, Suite 900
Chicago, IL 60601
P: 312.641.0770

CIVIL ENGINEER

Infrastructure Engineering, Inc.
One South Wacker Drive, Suite 2650
Chicago, IL 60606
P: 312.425.9560

GEOTECHNICAL CONSULTANT

Wang Engineering, Inc.
1145 North Main Street
Lombard, IL 60148
P: 630.953.9928

SURVEYING CONSULTANT

American Surveying and Engineering, P.C.
30 North LaSalle Street, Suite 3440
Chicago, IL 60602
P: 312.277.2000

STRUCTURAL ENGINEER

Stantec Consulting Services, Inc.
350 North Orleans Street, Suite 1310
Chicago, IL 60654
P: 312.831.3000

ARCHITECT

Latent Design Corporation
900 North Ashland Avenue
Chicago, IL 60622
P: 312.344.1498

ECOLOGICAL CONSULTANT

Living Habitats, LLC
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Chicago, IL 60631
P: 773.467.1634

MEP CONSULTANT

CCJM Engineers, Ltd
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Chicago, IL 60601
P: 312.669.0609

BUILDING STRUCTURAL

THORNTON TOMASETTI
330 North Wabash Avenue, Suite 1500
Chicago, IL 60601
P: 917.661.7800

COMFORT STATION STATEMENTS

CBC CERTIFICATION STATEMENT

I certify that these drawings were prepared under my direct supervision and to the best of my professional knowledge they conform to the Chicago Building Code

Signed: _____
 KATHERINE DARNSTADT

Date: _____

Illinois License Number:
 001-020964
 Expiration Date: 11/30/2022

ACCESSIBILITY STATEMENT

I certify that these drawings were prepared under my direct supervision and to the best of my professional knowledge and to the extent of my contractual obligation, they are in compliance with the Environmental Barriers Act (410ILCS. 25) and the IL Accessibility Code, (71 ILL. ADM. Code 400)

Signed: _____
 KATHERINE DARNSTADT

Date: _____

Illinois License Number:
 001-020964
 Expiration Date: 11/30/2022

ENERGY CODE STATEMENT

I certify that I am a Registered Energy Professional (REP). I also certify that to the best of my professional knowledge and belief that the plans for

4411 W CHICAGO AVE.,
 CHICAGO, IL 60651

Fully comply with the requirements of Chapter 18-13. Energy Conservation of the Municipal Code of Chicago as effective April 22, 2009.

Signed: _____
 KATHERINE DARNSTADT

Date: _____

Illinois License Number:
 001-020964
 Expiration Date: 11/30/2022

APPROVAL SIGNATURES

CDOT

REVIEWED: _____

APPROVED: _____

PBC

REVIEWED: _____

APPROVED: _____

CPD

REVIEWED: _____

APPROVED: _____

Architect of Record:

SMITHGROUP

ADDRESS: 35 EAST WACKER
 SUITE 900
 CHICAGO, ILLINOIS 60601
 PHONE: 312.641.0770
 WEB: www.smithgroup.com

Stantec Consulting Services, Inc.
 Chicago, IL
 Structural Engineers of Record

Infrastructure Engineering, Inc.
 Chicago, IL
 Civil Engineers of Record

Latent Design Corporation
 Chicago, IL
 Architects

Wang Engineering, Inc.
 Lombard, IL
 Geotechnical Consultant

Living Habitats, LLC
 Chicago, IL
 Ecological Consultant

American Surveying & Engineering
 Chicago, IL
 Surveying Consultant

CCJM Engineers
 Chicago, IL
 MEP Consultant

Thornton Tomasetti
 Chicago, IL
 Structural Consultant

Mark	Description	Date
XX	Initial SHPO Submittal	03/2024

PBC Project Name: Chicago Shoreline Protection Project
 PBC Contact No.: 22703
 Project No.: 13576

Title: **COVER SHEET**

Sheet: **G-001**

FILE: C:\pw_working\wtr\cerichard\0268939\22703-G-002.dwg USER: cerichard DATE: Oct. 03 2023 TIME: 04:55 pm

ABBREVIATIONS

Table of abbreviations from A to L. Includes terms like ABD (ABANDONED), AC (ACRES), ADA (AMERICANS WITH DISABILITIES ACT), ANLA (AMERICAN NURSERY AND LANDSCAPE ASSOCIATION), APPROX (APPROXIMATE), ARCH (ARCHITECT(URAL)), ANSI (AMERICAN NATIONAL STANDARDS INSTITUTE), ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS), B (BENCHMARK), BIT (BITUMINOUS), BLDG (BUILDING), B/F (BOTTOM OF FOOTING), B/S (BOTTOM OF SWALE), BVCE (BEGINNING OF VERTICAL CURVE ELEVATION), BVCS (BEGINNING OF VERTICAL CURVE STATION), B/W (BOTTOM OF WALL (FINISH GRADE)), C (CATCH BASIN), CI (CURB INLET), CIP (CAST IRON PIPE), CL (CLASS), CMP (CORRUGATED METAL PIPE), CON (CONDENSATE), CO (CLEANOUT), CONC (CONCRETE), CONTR (CONTRACTOR), CU FT (CUBIC FOOT), CURV (CURVATURE), CU YD (CUBIC YARD), DEMO (DEMOLISH), DEPT (DEPARTMENT), DIA (DIAMETER), DIP (DUCTILE IRON PIPE), DWG (DRAWING), E (EAST, EASTING COORDINATE), EA (EACH), EG (EXISTING GRADE), ELEV (ELEVATION), E/P (EDGE OF PAVEMENT (EDGE OF METAL)), EQ (EQUAL), ESVCP (EXTRA STRENGTH VITRIFIED CLAY PIPE), EVCE (END OF VERTICAL CURVE ELEVATION), EVCS (END OF VERTICAL CURVE STATION), EX (EXISTING), FF (FINISH FLOOR ELEVATION), FG (FINISH GRADE), FHWA (FEDERAL HIGHWAY ADMINISTRATION), FM (FORCE MAIN), FT (FOOT, FEET), FURN (FURNISHING), GALV (GALVANIZED), GAS (NATURAL GAS), G/C (GUTTER OF CURB (FLOWLINE)), GVL (GRAVEL), H (HIGH), HB (HOSE BIB), HCAP (ADA HANDICAP), HDPE (HIGH-DENSITY POLYETHYLENE), HMA (HOT MIX ASPHALT), HORZ (HORIZONTAL), HP (HIGH POINT), HT (HEIGHT), I (INNER DIAMETER), IN (INCH, INCHES), INCL (INCLUDE, INCLUDING), INL (INLET), INV (PIPE INVERT ELEVATION), IRR (IRRIGATION), J (JOINT), L (LENGTH), LF (LINEAR FEET), LPT (LOW POINT), LN (LANE), LT (LIGHT), LTG (LIGHTING), LVC (LENGTH OF VERTICAL CURVE).

Table of abbreviations from M to Z. Includes terms like MATL (MATERIAL), MAX (MAXIMUM), M.E. (MATCH EXISTING), MFR (MANUFACTURER), MH (MANHOLE), MIN (MINIMUM), MISC (MISCELLANEOUS), MOD (MODIFIED), N (NORTH, NORTHING COORDINATE), NA (NOT APPLICABLE), NIC (NOT IN CONTRACT), N.T.S. (NOT TO SCALE), O (ON CENTER), O.C. (ON CENTER), O.D. (OUTER DIAMETER), OFF (OFFSET), OPT (OPTIONAL), P (POINT OF CURVATURE (POC)), PED (PEDESTRIAN), PERF (PERFORATED), PERP (PERPENDICULAR), PLMB (PLUMBING), PREFAB (PREFABRICATED), PREP (PREPARATION), PROJ (PROJECTED), PROP (PROPOSED), PSF (POUNDS PER SQUARE FOOT), PSI (POUNDS PER SQUARE INCH), PT (POINT, POINT OF TANGENCY (POT)), PVC (POINT OF VERTICAL CURVATURE, POLYVINYL CHLORIDE), PVI (POINT OF VERTICAL INTERSECTION), PVMT (PAVEMENT), PWR (POWER), Q (QUANTITY), R (RADIUS), RCP (REINFORCED CONCRETE PIPE), RCPT (RECEPTACLE), REF (REFERENCE), REINF (REINFORCED, REINFORCEMENT), REM (REMOVE), REQD (REQUIRED), RIM (RIM ELEVATION), ROW (RIGHT OF WAY), S (SOUTH), SAN (SANITARY SEWER), SCH (SCHEDULE), SECT (SECTION), SESC (SOIL EROSION AND SEDIMENTATION CONTROL), SIM (SIMILAR), SP (SPACE, SPACED, SPACING), SQ FT (SQUARE FEET), SQ YD (SQUARE YARD), STA (STATION), STAG (STAGGER, STAGGERED), STD (STANDARD), SSL (STAINLESS STEEL), STM (STORM SEWER), STRUCT (STRUCTURAL), SWPPP (STORMWATER POLLUTION PREVENTION PLAN), T (TELECOM), T/C (TOP OF CURB), TEMP (TEMPORARY), T/F (TOP OF FOOTING), T/S (TOP OF SWALE), T/W (TOP OF WALL), TYP (TYPICAL), U (UNDERDRAIN), UTIL (UTILITY), V (VALVE BOX), VERT (VERTICAL), W (WEST), WM (WATER MAIN), W/O (WITHOUT), SYMBOL (SYMBOL), Ø (DIAMETER), ± (PLUS/MINUS), Δ (DELTA).

UTILITY SYMBOLS

Table of utility symbols including GATE VALVE BOX, GATE VALVE VAULT, WATER VALVE, TAPPING SLEEVE, LAWN HYDRANT, FIRE HYDRANT ASSEMBLY, FIRE DEPARTMENT CONNECTION, SANITARY MANHOLE, B-BOX, WATER FOUNTAIN, CLEANOUT, LIFT STATION, COMBINED SEWER MANHOLE, STORM STRUCTURE, INLET, YARD DRAIN OR CATCH BASIN, WATER QUALITY STRUCTURE, FLARED END SECTION, ELECTRICAL MANHOLE, ELECTRICAL VAULT, HANDHOLE, TELECOMMUNICATION MANHOLE, TELECOMMUNICATION VAULT, WATER MAIN, 8" CITY WATER MAIN, 12" CPD WATER MAIN, PIPE SLEEVE, SANITARY SEWER, FORCE MAIN, STORM SEWER, COMBINED SEWER, UNDERDRAIN, NATURAL GAS LINE, ELECTRICAL LINE OVERHEAD, ELECTRICAL LINE UNDERGROUND, TELECOM LINE OVERHEAD, TELECOM LINE UNDERGROUND, CHILLED WATER SUPPLY PIPE, CHILLED WATER RETURN PIPE, STEAM PIPE, CONDENSATE RETURN, FIRE WATER LINE, LIGHT CONTROL BOX, FIRE EXTINGUISHER CABINET, UTILITY CROSSING CALLOUT.

LAYOUT AND MATERIAL SYMBOLS

Table of layout and material symbols including ASPHALT PAVEMENT, HEAVY DUTY CONCRETE PAVEMENT, CONCRETE PAVEMENT, SPECIAL PAVING 1, 2, 3, POROUS PAVEMENT, FROST SLAB, AGGREGATE PATH, RIPRAP, WET/DRY POND, STANDARD CURB AND GUTTER, SPILLOUT CURB AND GUTTER, CURB TRANSITION, FLUSH CURB AND GUTTER, CURB RAMP, SPILLWAY - INTERMEDIATE, SPILLWAY - TERMINAL, CONTROL JOINT, ISOLATION (EXPANSION) JOINT, ARMOR STONE, TRANSITION PLATE, GUARD RAIL, RETAINING WALL 1, 2, SITE WALL 1, 2, LIGHT POLE, VEHICULAR LIGHT POLE, WHEEL STOP, BOLLARD, TRASH RECEPTACLE, RECYCLING CONTAINERS, DUMPSTER, FENCE, SWING GATE, ROLLING/CANTILEVER GATE, BENCH, DETECTABLE WARNING STRIP, TREE GRAT/WEELL, GENERATOR, CONCRETE CRYPT, NAVIGATION AID, VERTICAL WALL FENDER, SAFETY LADDER, DOCK CLEAT, DOCK BOX (TRIANGULAR).

SIGNAGE AND STRIPING SYMBOLS

Table of signage and striping symbols including DASHED PAVEMENT MARKING, SOLID PAVEMENT MARKING, DOUBLE YELLOW PAVEMENT MARKING, FIRE LANE MARKING, STOP BAR PAVEMENT MARKING, CROSSWALK PAVEMENT MARKING, HANDICAP PAVEMENT MARKING, SINGLE POST SIGN, DOUBLE POST SIGN, POLE MOUNTED SIGN, DIRECTIONAL ARROW PAVEMENT MARKING, MESSAGE PAVEMENT MARKING, BIKE LANE PAVEMENT MARKING, SHARROW PAVEMENT MARKING.

SITE PREPARATION SYMBOLS

Table of site preparation symbols including PROPERTY LINE, SETBACK LINE, WETLAND BOUNDARY, EDGE OF WATER, SOIL TYPE BOUNDARY, EASEMENT, SOIL BORING, LIMITS OF REMOVAL, BUILDING REMOVAL, TREE REMOVAL, TREE PROTECTION FENCE, PROTECT, REMOVE, SALVAGE, RELOCATE, UTILITY REMOVAL, UTILITY ABANDONMENT, CONSTRUCTION FENCE, CONSTRUCTION ENTRANCE, JERSEY BARRIER.

PLANTING SYMBOLS

Table of planting symbols including EXISTING TREES, EXISTING TREE LINE / WOODLAND EDGE, DECIDUOUS SHADE TREE, CONIFEROUS EVERGREEN TREE, ORNAMENTAL TREE, DECIDUOUS SHRUB, CONIFEROUS SHRUB, INDIVIDUAL ORNAMENTAL GRASS / PERENNIAL, PALM TREE, LAWN SEED MIX, DETENTION POND SEED MIX, NATIVE UPLAND SEED MIX, PERENNIAL / GROUNDCOVER PLANT BED, METAL LANDSCAPE EDGE, STONE MAINTENANCE EDGE, SHRUB MASSING.

REFERENCE SYMBOLS

Table of reference symbols including SITE SECTION, KEYED NOTE MARK, PLAN DETAIL REFERENCE, REVISION NUMBER AND EXTENT, PLANT MATERIAL LABEL, MATCHLINE REFERENCE, ALIGNMENT AND STATIONING, DRAWING TITLE SYMBOLS, NORTH ARROW, GRAPHICAL SCALE (PLAN SCALE, PROFILE SCALE).

GRADING SYMBOLS

Table of grading symbols including EXISTING MAJOR CONTOUR, EXISTING MINOR CONTOUR, EXISTING SPOT ELEVATION, PROPOSED MAJOR CONTOUR, PROPOSED MINOR CONTOUR, GRADING LIMITS, GRADE BREAK LINE, PROFILE - EXISTING GRADE, PROFILE - FINISH GRADE, WORK LIMITS, DRAINAGE SLOPE, DRAINAGE SWALE, FLOW DIRECTION, COASTAL STRUCTURE SIDE SLOPE, PROPOSED SPOT ELEVATION, APPROX. SPOT ELEVATION: MATCH EXISTING GRADE, APPROX. SPOT ELEVATION: MATCH EXISTING GRADE & CROSS SLOPE OF ROADWAY, STRUCTURE RIM ELEVATION, TOP OF CURB ELEVATION, GUTTER OF CURB ELEVATION, EDGE OF PAVEMENT ELEVATION, TOP OF FOOTING ELEVATION, BOTTOM OF FOOTING ELEVATION, TOP OF SWALE ELEVATION, BOTTOM OF SWALE ELEVATION, TOP OF WALL ELEVATION, BOTTOM OF WALL ELEVATION, HIGH POINT ELEVATION, LOW POINT ELEVATION.

SWPPP/SESC SYMBOLS

Table of SWPPP/SESC symbols including SILT FENCE, INLET PROTECTION, CULVERT PROTECTION, SEDIMENT CONTROL TUBE, STABILIZED CONSTRUCTION ENTRANCE, TEMPORARY SEDIMENT FOREBAY, EROSION CONTROL BLANKET, TURBIDITY CURTAIN.

NOTE: ABBREVIATIONS, SYMBOLS, AND LEGENDS SHOWN ON THIS DRAWING ARE NOT NECESSARILY USED.

NOT FOR CONSTRUCTION



CHICAGO SHORELINE PROTECTION PROJECT
MORGAN SHOAL REVERTMENT RECONSTRUCTION
45TH STREET TO 51ST STREET
CHICAGO, IL 60653
CHICAGO PARK DISTRICT
CITY OF CHICAGO, MAYOR LORI E. LIGHTFOOT

Architect of Record: SMITHGROUP
ADDRESS: 35 EAST WACKER SUITE 900 CHICAGO, ILLINOIS 60601
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Wang Engineering, Inc.
Lombard, IL
Geotechnical Consultant

Living Habitats, LLC
Chicago, IL
Ecological Consultant

American Surveying & Engineering
Chicago, IL
Surveying Consultant

CCJM Engineers
Chicago, IL
MEP Consultant

Thornton Tomasetti
Chicago, IL
Structural Consultant

Table with 3 columns: Mark, Description, Date. Includes entry for Initial SHPO Submittal on 03/2024.

PBC Project Name: Chicago Shoreline Protection Project
PBC Contract No.: 22703
Project No.: 13576
Title

LEGEND

Sheet G-002

GENERAL NOTES:

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS.
2. CONTRACTOR MAY BE REQUIRED TO PAY INSPECTION FEES TO THE VARIOUS DEPARTMENTS OF THE CITY OF CHICAGO, CHICAGO PARK DISTRICT, AND OTHER CONCERNED AGENCIES AS NOTED IN THE SPECIAL CONDITIONS.
3. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM THE CITY OF CHICAGO, CHICAGO PARK DISTRICT AND OTHER CONCERNED AGENCIES PRIOR TO COMMENCING CONSTRUCTION.
4. ALL WORK IN THE PUBLIC WAY REQUIRES A PERMIT FROM THE DEPARTMENT OF TRANSPORTATION, BUREAU OF INSPECTIONS, CONSTRUCTION AND COMPLIANCE DIVISION, PERMIT DIVISION. ALL WORK WITHIN 40 FEET OF ANY WATERWAY REQUIRES A HARBOR PERMIT FROM THE DEPARTMENT OF TRANSPORTATION.
5. CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL CONSTRUCTION VEHICLE PERMITS.
6. PRIOR TO START OF PROJECT WORK, VERIFY ALL SITE CONDITIONS AND SUBMIT A PROJECT PLAN TO THE COMMISSION REPRESENTATIVE FOR REVIEW AND COMMENT. PRESENT THE WORK PLAN AT THE COMMISSION REPRESENTATIVE'S PRE-CONSTRUCTION MEETING. DO NOT BEGIN PRIOR TO THE "PRE-CONSTRUCTION MEETING" AND WRITTEN AUTHORIZATION TO PROCEED ISSUED BY THE COMMISSION REPRESENTATIVE.
7. NOTIFY THE COMMISSION REPRESENTATIVE IN WRITING OF ANY IDENTIFIED DISCREPANCIES WITHIN THE CONSTRUCTION DOCUMENTS PRIOR TO THE START OF WORK. DURING PERFORMANCE OF THE WORK, VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE AND CROSS-CHECK DETAILS AND DIMENSIONS SHOWN ON THE DRAWINGS WITH RELATED REQUIREMENTS ON THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, CIVIL, LANDSCAPE, AND PLUMBING DRAWINGS. CONTRACTORS SHALL VERIFY ALL SITE CONDITIONS PRIOR TO STARTING WORK. IN ALL CASES WHERE A CONFLICT MAY OCCUR THE COMMISSION REPRESENTATIVE SHALL BE NOTIFIED AND WILL INTERPRET THE INTENT OF THE CONTRACT DOCUMENTS.
8. EXISTING CONDITIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. ACTUAL FIELD CONDITIONS MAY VARY. REFER TO REFERENCE DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING EXISTING CONDITIONS.
9. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONARY MEASURES TO PROTECT THE PUBLIC AND ADJACENT PROPERTIES FROM DAMAGE THROUGHOUT CONSTRUCTION, INCLUDING DAMAGE TO UTILITIES, WALKS, WALLS, DRIVES, CURBS, ETC.
10. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DEPARTMENT OF TRANSPORTATION OF ANY DAMAGE TO CITY OWNED AND MAINTAINED TRAFFIC SIGNS, GUARDRAILS, FENCES, ETC.
11. THE CONTRACTOR SHALL MAINTAIN COMPLETE ACCESS TO ALL BUILDINGS AND PROPERTY ADJACENT TO THE PROPOSED IMPROVEMENT.
12. ALL WORK BEGUN DURING A CONSTRUCTION SEASON SHALL BE COMPLETED PRIOR TO DEMOBILIZATION OF PERSONNEL AND/OR EQUIPMENT AT THE END OF THAT SEASON.
13. THE CONTRACTOR'S VEHICLES SHALL ALWAYS MOVE WITH, AND NOT AGAINST OR ACROSS THE FLOW OF TRAFFIC, UNLESS OTHERWISE APPROVED BY THE COMMISSION REPRESENTATIVE. THESE VEHICLES SHALL ENTER OR LEAVE WORK AREAS IN A MANNER WHICH WILL NOT BE HAZARDOUS TO OR INTERFERE WITH NORMAL TRAFFIC AND SHALL NOT PARK OR STOP EXCEPT WITHIN DESIGNATED WORK AREAS. PERSONAL VEHICLES WILL NOT BE PERMITTED TO PARK WITHIN THE RIGHT-OF-WAY EXCEPT IN SPECIFIC AREAS DESIGNATED BY THE COMMISSION REPRESENTATIVE.
14. DURING ALL WORK HOURS, CONTRACTOR SHALL EMPLOY FLAG PERSONS TO FACILITATE PUBLIC SAFETY AT ALL POINTS WHERE CONSTRUCTION TRAFFIC CROSSES PUBLIC PATHS.
15. CONTRACTOR'S ACTIVITIES SHALL NOT INTERFERE WITH PEDESTRIAN, BICYCLE, OR VEHICLE TRAFFIC OUTSIDE THE WORK LIMITS SHOWN. CONTRACTOR SHALL SUBMIT A PLAN TO ENSURE THE SAFETY OF PEDESTRIAN, BICYCLE AND VEHICLE TRAFFIC ALONG THE PROPOSED ACCESS ROUTE, PARTICULARLY WHERE THE ACCESS ROUTE CROSSES PUBLIC WALKWAYS AND BICYCLE PATHS. CONTRACTOR SHALL ENSURE THAT PUBLIC WALKWAYS AND BIKE PATHS ARE MAINTAINED CLEAR OF DIRT AND DEBRIS AT ALL ACCESS ROUTE CROSSINGS.
16. CONSTRUCTION ACCESS TO THE SITE SHALL BE PROTECTED IN SUCH A WAY AS TO PREVENT TRACKING OF MUD SOIL OR TRASH ONTO AREAS ACCESSIBLE TO THE PUBLIC.
17. ESTABLISH AND MAINTAIN SITE SECURITY UNTIL PROJECT ACCEPTANCE.
18. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ALL TREES AND LANDSCAPING WITHIN THE WORK AREA PER THE DRAWINGS AND SPECIFICATIONS. DAMAGED TREES AND LANDSCAPING AS DETERMINED BY THE COMMISSION REPRESENTATIVE SHALL BE REPLACED IN KIND AT NO ADDITIONAL COST TO THE COMMISSION. CHICAGO PARK DISTRICT MAY INDEPENDENTLY LEVY FINES AS OUTLINED IN THE SPECIFICATIONS.
19. DISPOSE ALL ELEMENTS DESIGNATED FOR REMOVAL IN A LEGAL MANNER. PROVIDE RECEIPTS AND LETTERS FROM DISPOSAL SITES TO COMMISSION REPRESENTATIVE AS REQUIRED BY COMMISSION REPRESENTATIVE.
20. NO BURNING OR INCINERATION OF RUBBISH WILL BE PERMITTED ON THE SITE.
21. THE COMMISSION DOES NOT GUARANTEE THE COMPLETENESS OR ACCURACY OF THE INFORMATION SHOWN ON THE PLANS REGARDING UTILITIES, EITHER PUBLIC OR PRIVATE, SUCH AS SEWER, MANHOLES, CATCH BASINS, GAS AND WATER MAINS, TELEPHONE AND ELECTRICAL DUCT LINES AND SIMILAR STRUCTURES. THE CONTRACTOR SHALL MAKE HIS OWN INVESTIGATION TO DETERMINE THE EXISTENCE, NATURE AND EXACT LOCATION OF ALL UTILITY LINES AND APPURTENANCES THAT MAY INTERFERE WITH CONSTRUCTION OPERATIONS, AND SHALL REPORT TO THE COMMISSION REPRESENTATIVE ANY OMISSIONS AND DIFFERENCES FROM THE LOCATIONS SHOWN ON THE PLANS. THE COST OF UTILITY WORK WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
22. 48 HOURS BEFORE STARTING EXCAVATION, THE CONTRACTOR SHALL CALL DIGGER (CHICAGO UTILITY ALERT NETWORK) AT 744-7000 TO HAVE THE LOCATION OF EXISTING UNDERGROUND UTILITIES STAKED.
23. THE CONTRACTOR SHALL PROTECT EXISTING AND NEW UTILITIES WHEN CONSIDERED NECESSARY BY THE COMMISSION REPRESENTATIVE, BY METHODS APPROVED BY THE COMMISSION REPRESENTATIVE, AND SHALL BRACE AND SUPPORT THE UTILITIES PROPERLY TO PREVENT SETTLEMENT, DISPLACEMENT OR CHANGE TO THE UTILITIES. THE PROTECTION OF THE UTILITIES AS SPECIFIED HEREIN SHALL NOT BE PAID FOR SEPARATELY, BUT THE COST THEREOF SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
24. ALL UNDERGROUND SEWER WORK INCLUDING BUT NOT LIMITED TO STRUCTURE ADJUSTMENTS SHALL BE PERFORMED BY A LICENSED DRAIN LAYER UNDER PERMITS AND INSPECTION OF THE DEPARTMENT OF WATER MANAGEMENT.
25. THE CONTRACTOR SHALL REIMBURSE THE CHICAGO PARK DISTRICT FOR ALL LABOR COSTS ASSOCIATED WITH FIELD LOCATION OF UTILITIES. SUCH COST SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
26. THE CONTRACTOR SHALL MAINTAIN THE SURFACE DRAINAGE OF THE WORK AREA DURING CONSTRUCTION OF THIS PROJECT OR PROPERLY COLLECT, TREAT, AND DISPOSE OF SURFACE DRAINAGE. IN LOCATIONS WHERE THE EXISTING DRAINAGE FACILITIES ARE DISTURBED OR DAMAGED DURING CONSTRUCTION BY THE CONTRACTOR, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO RESTORE AND REPLACE THE DAMAGED FACILITIES TO THE SATISFACTION OF THE COMMISSION REPRESENTATIVE, AT NO ADDITIONAL COST TO THE COMMISSION.
27. WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE AND PUBLIC DRAINS, SEWERS OR CATCH CONTRACTOR SHALL PROVIDE AND MAINTAIN AN EFFICIENT PUMPING PLANT, IF NECESSARY, AND A TEMPORARY OUTLET, AND BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER FROM TEMPORARY CONNECTIONS UNTIL SUCH TIME AS THE SEWERS ARE REBUILT AND IN SERVICE. ALL PUMPING SHALL ENTER A SETTLING BASIN SYSTEM, APPROVED BY THE COMMISSION REPRESENTATIVE OF THE DEPARTMENT OF WATER MANAGEMENT, BEFORE PASSING INTO THE EXISTING DRAINAGE SYSTEM. THE COST OF THIS WORK WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
28. COORDINATE WORK OF SUBCONTRACTORS AND ALL OTHER CONTRACTORS TO ENSURE ORDERLY AND EFFICIENT COMPLETION OF ALL WORK.
29. COORDINATE CONSTRUCTION OF PENETRATIONS, SLEEVES, VARIATIONS IN THE SLAB ELEVATIONS, DEPRESSED AREAS AND ALL OTHER ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING REQUIREMENTS.

SITE UTILIZATION NOTES:

1. CONTRACTOR TO PREPARE AND SUBMIT A PROJECT-SPECIFIC MOBILIZATION & LOGISTICS PLAN, INCLUDING NARRATIVE, FOR REVIEW AND APPROVAL PRIOR TO MOBILIZATION TO THE PROJECT SITE.
2. CONTRACTOR SHALL NOT IMPACT CPD OPERATIONS AT ANY TIME.
3. CONTRACTOR TO SUBMIT ITS PROJECT-SPECIFIC QUALITY AND SAFETY PLANS FOR REVIEW AND APPROVAL.
4. THE CONTRACTOR IS RESPONSIBLE FOR ALL MEANS, METHODS, TECHNIQUES, AND SEQUENCES FOR IMPLEMENTATION OF THE WORK WITHIN AREAS DESIGNATED. THIS INCLUDES, BUT IS NOT LIMITED TO, THE DETERMINATION OF THE NEED FOR (AND DESIGN OF) ANY AND ALL SHORING AND BRACING, UNDERPINNING, DEWATERING, SOIL STABILIZATION, SETTLEMENT MONITORING, TEMPORARY FENCING AND GATES, TEMPORARY EMERGENCY LIGHTING, TEMPORARY FACILITIES, PERMITS, ETC.
5. WHERE PROPERTY, STRUCTURES, OR PUBLIC WAY ARE DISTURBED AND/OR DAMAGED AS A RESULT OF THE CONTRACTOR'S MEANS AND METHODS, TECHNIQUES, OR TEMPORARY FACILITIES, THE CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF ALL ASPECTS OF THE BUILDING, SITE, AND PUBLIC WAY TO ORIGINAL CONDITION TO THE SATISFACTION OF THE COMMISSION REPRESENTATIVE.
6. THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY FACILITIES, SITE FENCING, GATES, ETC. NECESSARY FOR IMPLEMENTATION OF THE WORK.
7. ALL CONTRACTORS TO ENTER SITE THROUGH DESIGNATED CONSTRUCTION ENTRANCE.
8. TEMPORARY TRAIL CONNECTIONS SHALL BE ASPHALT, A MINIMUM OF 8-FEET WIDE, WITH A GRADE THAT DOES NOT EXCEED 5% AND REMAIN OPEN THROUGHOUT THE DURATION OF THE PROJECT.
9. EXISTING TRAIL CLOSEST TO DUSABLE LAKE SHORE DRIVE SHALL REMAIN OPEN TO PEDESTRIAN AND BICYCLIST USE FOR THE DURATION OF THE PROJECT WITH EXCEPTION OF MILESTONE 2/PHASE 3.
10. FLAGGER(S) AND CONSTRUCTION TRAFFIC CAUTION SIGNAGE REQUIRED AT ALL TRAIL CROSSING(S).
11. CONTRACTOR RESPONSIBLE FOR PROVIDING A TRAFFIC CONTROL PLAN IN ACCORDANCE WITH CDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. THE GUIDELINES CONTAINED IN THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, THE SUPPLEMENTAL SPECIFICATIONS AND THE RECURRING SPECIAL PROVISIONS, THE SPECIFICATIONS AND ANY SPECIAL DETAILS AND HIGHWAY STANDARDS CONTAINED HEREIN AND IN THE PLANS.
12. PERMITTED WORK HOURS: MONDAY - FRIDAY (6:00AM - 9:00PM); SATURDAYS (IF NEEDED) 8:00AM - 5:00PM; SUNDAY (IF NEEDED) 8:00AM - 5:00PM. ANY VARIATION FROM THESE WORKING HOURS TO INCLUDE EXTENDED SHIFT HOURS CAN ONLY BE PERMITTED WITH THE WRITTEN APPROVAL OF THE OWNER.
13. NIGHT, SUNDAY AND HOLIDAY WORK - WHENEVER CONTRACTOR IS PERMITTED TO PERFORM WORK AT NIGHT, OR ON SUNDAYS OR STATE OR FEDERAL HOLIDAYS, OR TO VARY THE PERIOD OF HOURS DURING WHICH ANY WORK IS CARRIED ON EACH DAY, CONTRACTOR MUST GIVE WRITTEN NOTICE TO THE OWNER, AT LEAST 24 HOURS IN ADVANCE, SO THAT PROPER INSPECTION MAY BE PROVIDED. THE WORK WILL BE DONE UNDER REGULATIONS TO BE FURNISHED IN WRITING BY THE COMMISSION REPRESENTATIVE, AND NO EXTRA COMPENSATION WILL BE ALLOWED THEREFORE.
14. TREE RESTRICTIONS: NO CUTTING OF ANY TREES SUITABLE FOR BAT ROOSTING (I.E., GREATER THAN 5 INCHES DIAMETER AT BREST HEIGHT (DBH), LIVING OR DEAD, WITH LOOSE HANGING BARK, OR WITH CRACKS, CREVICES, OR CAVITIES) FROM APRIL 1 THROUGH SEPTEMBER 30.
15. TREE RESTRICTIONS: PROTECT EXISTING TREES (TREES NOT TO BE REMOVED) WITH APPROPRIATE PERIMETER FENCING.
16. MUDPUPPY RESTRICTIONS: NEAR-SHORE WORK TO BE COMPLETED BETWEEN THE DATES OF MAY 1ST AND OCTOBER 31ST.
17. CONTRACTOR SHALL COMPLY WITH THE CITY'S SITE CLEANLINESS ORDER.
18. PERMITTED WORK HOURS: MONDAY - FRIDAY (6:00AM - 9:00PM); SATURDAYS (IF NEEDED) 8:00AM - 5:00PM; SUNDAY (IF NEEDED) 8:00AM - 5:00PM

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CHICAGO SHORELINE
PROTECTION PROJECT

MORGAN SHOAL REVETMENT RECONSTRUCTION
45TH STREET TO 51ST STREET
CHICAGO, IL 60653

CHICAGO PARK DISTRICT
CITY OF CHICAGO, MAYOR LORI E. LIGHTFOOT

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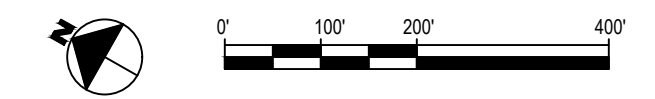
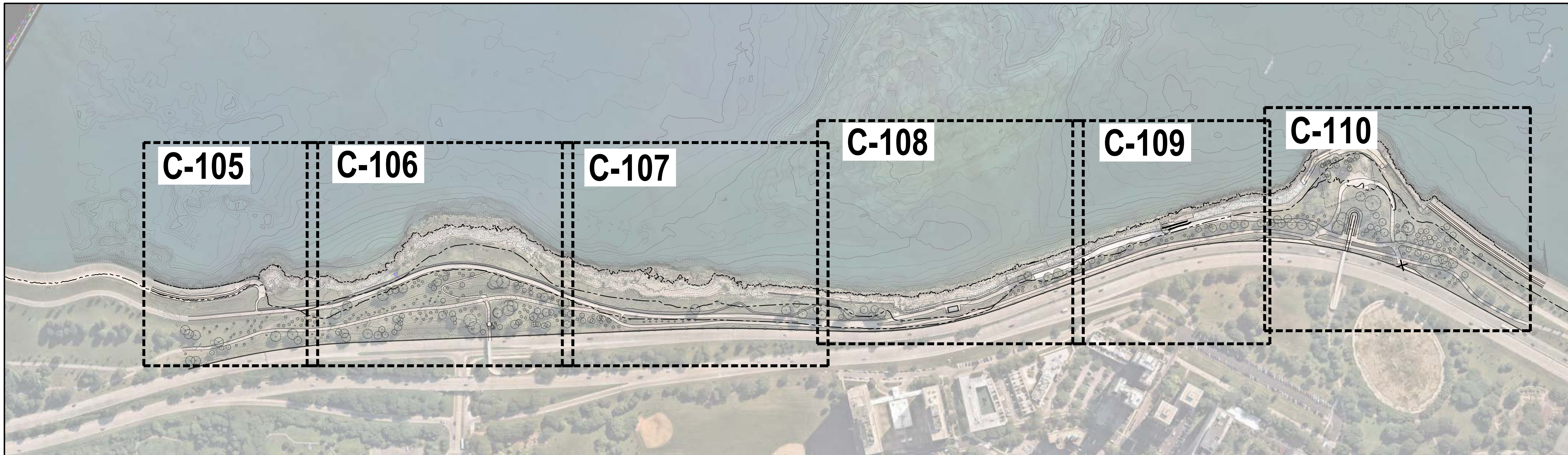
Issuance		
Mark	Description	Date
XX	Initial SHPO Submittal	03/20/24

PBC Project Name: Chicago Shoreline Protection Project
PBC Contract No.: 22703
Project No.: 13576
Title

GENERAL NOTES

Sheet
G-003

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CHICAGO SHORELINE PROTECTION PROJECT
 MORGAN SHOAL REVETMENT RECONSTRUCTION
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 CHICAGO PARK DISTRICT
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SHEET NOTES

- ELEVATIONS REFERENCED TO LOW WATER DATUM (LWD) FOR LAKE MICHIGAN UNLESS STATED OTHERWISE. TO CONVERT TO CHICAGO CITY DATUM (CCD), SUBTRACT 1.145 FEET FROM LWD ELEVATIONS. LWD IS 577.5' INTERNATIONAL GREAT LAKES LOW WATER DATUM IGLD85.

Issuance		
Mark	Description	Date
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 PBC Contract No.: 22703
 Project No.: 13576

Title: **EXISTING CONDITIONS OVERVIEW AND INDEX**

Sheet: **C-104**

FILE: C:\pw_working\wtr\ceerichard\0243929\22703-C-105.dwg USER: ceerichard DATE: Oct. 03 2023 TIME: 11:44 am



PHOTO A
EXISTING STEPPED CONCRETE REVETMENT



PHOTO B
EXISTING ARMOR STONE TERMINATION STRUCTURE



PHOTO C
EXISTING CHICAGO PARK DISTRICT LIGHT POLES ADJACENT TO LAKEFRONT TRAIL

MATCHLINE: SEE SHEET C-106

MATCHLINE: SEE SHEET C-106



SHEET NOTES

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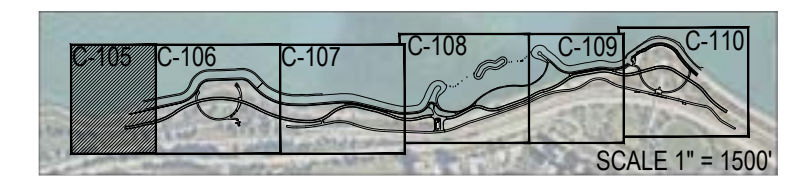
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KEY MAP



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PBC Project Name: Chicago Shoreline Protection Project
PBC Contract No.: 22703
Project No.: 13576

Title: **EXISTING SHORELINE CONDITIONS - A**

Sheet: **C-105**

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MATCHLINE: SEE SHEET C-105

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PHOTO A
EXISTING CONNECTING PATH BETWEEN BICYCLE AND PEDESTRIAN LAKEFRONT TRAIL



PHOTO B
EXISTING CONNECTING PATH BETWEEN 47TH STREET PEDESTRIAN BRIDGE AND BICYCLE LAKEFRONT TRAIL



PHOTO C
EXISTING RIPRAP AND CONCRETE-FILLED AND BIRD'S EYE SAND TRAPBAGS

SHEET NOTES

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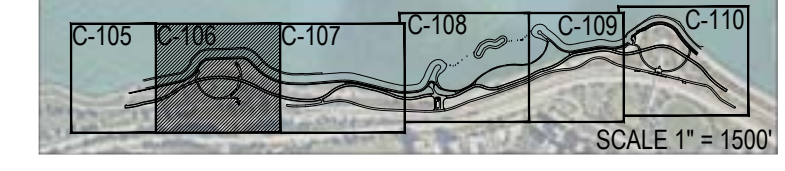
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KEY MAP



Mark	Description	Date
XX	Initial SHPO Submittal	03/2024

PBC Project Name: Chicago Shoreline Protection Project
PBC Contract No.: 22703
Project No.: 13576

Title: **EXISTING SHORELINE CONDITIONS - B**

Sheet: **C-106**



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MATCHLINE: SEE SHEET C-106

MATCHLINE: SEE SHEET C-106

MATCHLINE: SEE SHEET C-108

MATCHLINE: SEE SHEET C-108



PHOTO A
EXISTING TRAPBAGS AND LAKEFRONT TRAILS



PHOTO B
EXISTING DAMAGED PARKLAND, AREA OF ACTIVE EROSION AND DEBRIS



PHOTO C
EXISTING (DISUSED) WATER IRRIGATION INFRASTRUCTURE WITH METER VAULT

SHEET NOTES

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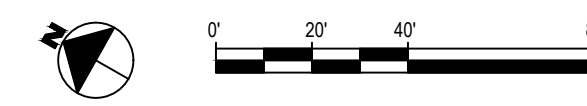
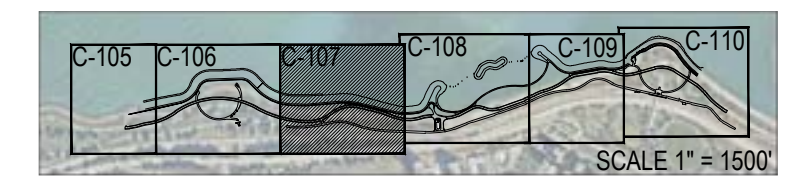
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KEY MAP



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XX	Initial SHPO Submittal	03/2024

PBC Project Name: Chicago Shoreline Protection Project
PBC Contact No.: 22703
Project No.: 13576

Title: **EXISTING SHORELINE CONDITIONS - C**

Sheet: **C-107**

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MATCHLINE: SEE SHEET C-107

MATCHLINE: SEE SHEET C-109



PHOTO A
EXISTING ELECTRICAL TRANSFORMER PROTECTED BY BIRD'S EYE SAND TRAPBAGS



PHOTO B
EXISTING 18-INCH CITY OF CHICAGO SEWER OUTFALL THROUGH DETERIORATED REVETMENT



PHOTO C
EXISTING COMFORT STATION, PEDESTRIAN LAKEFRONT TRAIL, AND FLOOD LIGHT

SHEET NOTES

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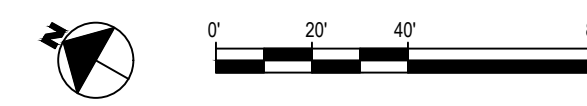
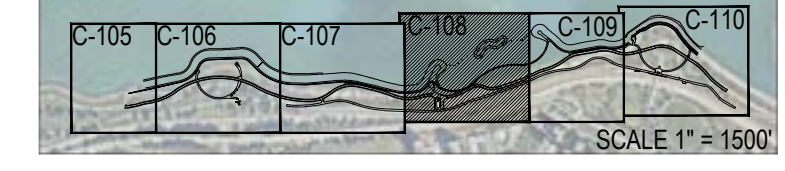
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KEY MAP



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MATCHLINE: SEE SHEET C-109

Issuance		
Mark	Description	Date
XX	Initial SHPO Submittal	03/2024

PBC Project Name: Chicago Shoreline Protection Project
PBC Contact No.: 22703
Project No.: 13576
Title: **EXISTING SHORELINE CONDITIONS - D**
Sheet: **C-108**

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MATCHLINE: SEE SHEET C-108

MATCHLINE: SEE SHEET C-110

MATCHLINE: SEE SHEET C-110



PHOTO A
EXISTING DETERIORATED REVETMENT WITH RIPRAP



PHOTO B
EXISTING DETERIORATED REVETMENT, GROUTED RIPRAP, AND LARGE CONCRETE BLOCKS



SHEET NOTES

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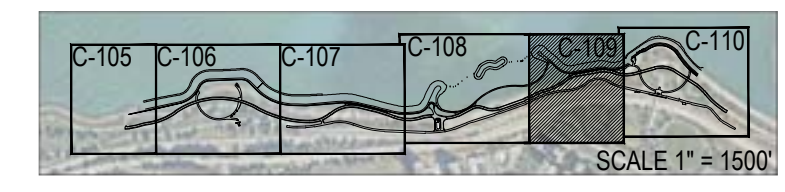
CCJM Engineers
Chicago, IL
MEP Consultant

Thornton Tomasetti
Chicago, IL
Structural Consultant

LEGEND

(X) PHOTOGRAPH LOCATION MARKER

KEY MAP



Mark	Description	Date
XX	Initial SHPO Submittal	03/2024

PBC Project Name: Chicago Shoreline Protection Project
PBC Contact No.: 22703
Project No.: 13576

Title: **EXISTING SHORELINE CONDITIONS - E**

Sheet **C-109**

FILE: C:\pw_working\wtr\ceerichard\0243929\22703-C-110.dwg USER: ceerichard DATE: Oct, 03 2023 TIME: 11:50 am

MATCHLINE: SEE SHEET C-109

MATCHLINE: SEE SHEET C-109



PHOTO B EXISTING DUSABLE LAKE SHORE DRIVE MAINTENANCE ACCESS POINT



PHOTO C EXISTING UNDERMINED CONCRETE SLABS AND DETERIORATED REVETMENT



PHOTO A EXISTING 51ST STREET PEDESTRIAN BRIDGE ABOVE PEDESTRIAN AND BICYCLE LAKEFRONT TRAILS

SHEET NOTES

- ELEVATIONS ARE REFERENCED TO LOW WATER DATUM (LWD) FOR LAKE MICHIGAN UNLESS STATED OTHERWISE. TO CONVERT TO CHICAGO CITY DATUM (CCD), SUBTRACT 1.145 FEET FROM LWD ELEVATIONS. LWD IS 577.5' INTERNATIONAL GREAT LAKES LOW WATER DATUM IGLD85.
- THE AERIAL PHOTOGRAPH REFERENCED ON THE PLAN SHEETS WAS OBTAINED FROM NEARMAP WITH ORTHOIMAGERY COLLECTED 7/26/2021.

NOT FOR CONSTRUCTION



CHICAGO SHORELINE PROTECTION PROJECT
 MORGAN SHOAL REVETMENT RECONSTRUCTION
 45TH STREET TO 51ST STREET
 CHICAGO, IL 60653
 CHICAGO PARK DISTRICT
 CITY OF CHICAGO, MAYOR LORI E. LIGHTFOOT

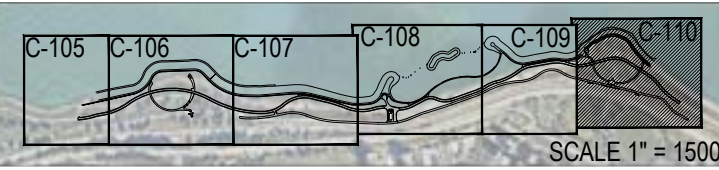
Architect of Record:
SMITHGROUP
 ADDRESS: 35 EAST WACKER SUITE 900
 CHICAGO, ILLINOIS 60601
 PHONE: 312.641.0770
 WEB: www.smithgroup.com

- Stantec Consulting Services, Inc. Chicago, IL Structural Engineers of Record
- Infrastructure Engineering, Inc. Chicago, IL Civil Engineers of Record
- Latent Design Corporation Chicago, IL Architects
- Wang Engineering, Inc. Lombard, IL Geotechnical Consultant
- Living Habitats, LLC Chicago, IL Ecological Consultant
- American Surveying & Engineering Chicago, IL Surveying Consultant
- CCJM Engineers Chicago, IL MEP Consultant
- Thornton Tomasetti Chicago, IL Structural Consultant

LEGEND

(X) PHOTOGRAPH LOCATION MARKER

KEY MAP



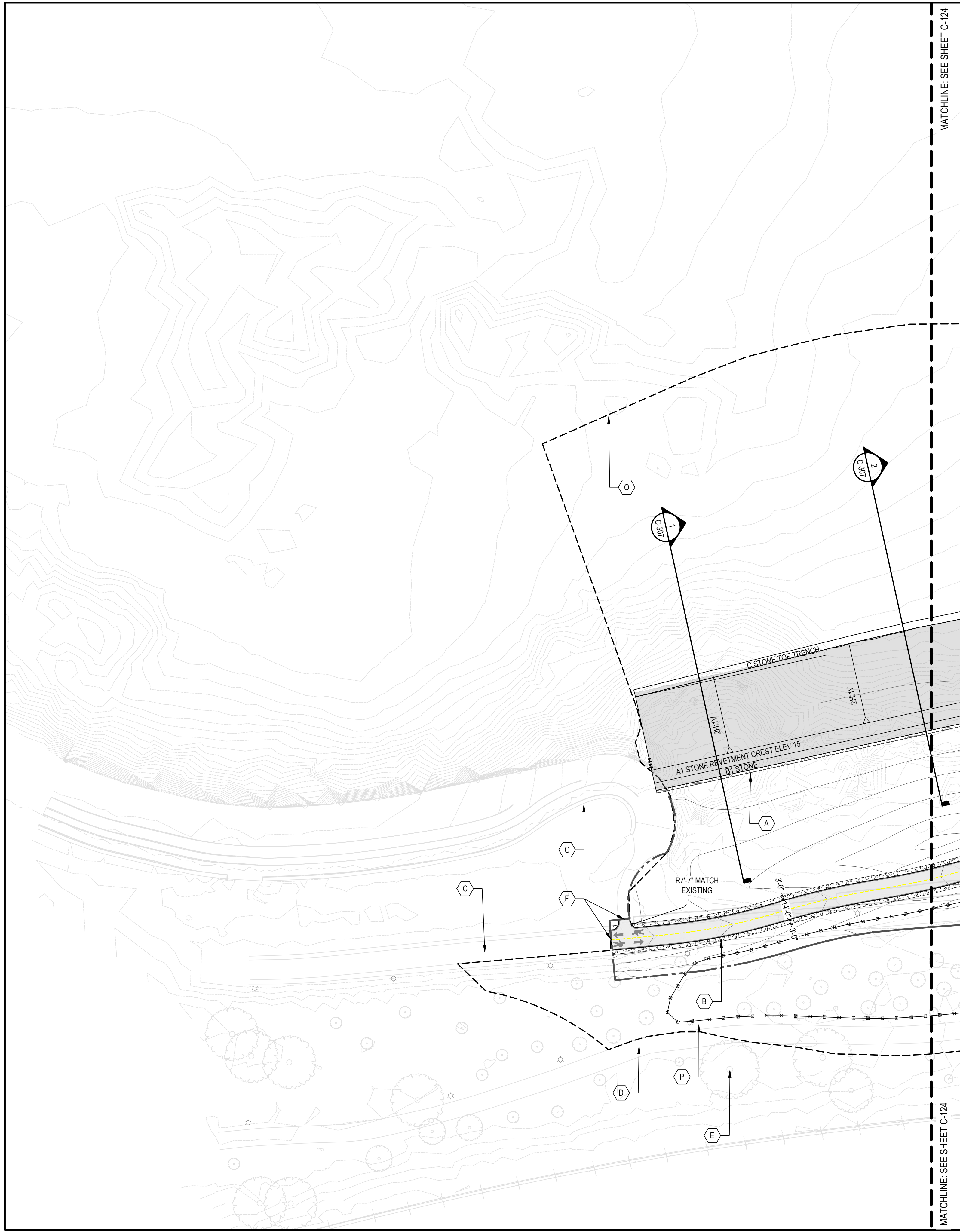
Mark	Description	Date
XX	Initial SHPO Submittal	03/2024

PBC Project Name: Chicago Shoreline Protection Project
 PBC Contract No.: 22703
 Project No.: 13576

EXISTING SHORELINE CONDITIONS - F

Sheet **C-110**

FILE: C:\pw_working\wtr_sposques\024-3929\22703-C-123.dwg USER: sposques DATE: Oct, 04 2023 TIME: 02:10 pm



MATCHLINE: SEE SHEET C-124

MATCHLINE: SEE SHEET C-124

SHEET NOTES

1. INFORMATION PRESENTED IS BASED ON SURVEY DATED 1998/9, UTILITY INFORMATION FROM THE CONTRACT PLANS FOR IMPROVEMENT OF US ROUTE 41 (SOUTH LAKE SHORE DRIVE) DATED DECEMBER, 2001, AND AERIAL VIEW PHOTOGRAPHY FROM NEARMAP DATED JULY, 2021.
2. ALL INFORMATION IS APPROXIMATE. DRAWINGS ARE NOT FOR CONSTRUCTION.
3. TOPOGRAPHIC INFORMATION IS ASSUMED LOW WATER DATUM (LWD) FOR LAKE MICHIGAN. TO CONVERT TO CHICAGO CITY DATUM (CCD) SUBTRACT 1.145 FEET.
4. SEE SHEETS C-101-C-103 FOR BASELINE CONTROL POINT COORDINATES.

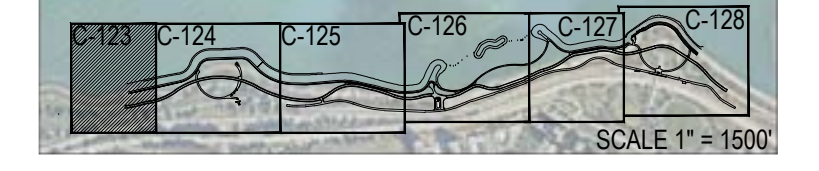
KEYED NOTES

- A. TOP OF SHORELINE PROTECTION. SEE CIVIL CROSS SECTIONS.
- B. 3' WIDE GRAVEL SHOULDER ALONG PEDESTRIAN PATH, TYP.
- C. PROTECT EXISTING PEDESTRIAN PATH TO REMAIN.
- D. PROTECT EXISTING BIKE PATH TO REMAIN, TYP.
- E. PROTECT EXISTING TREES TO REMAIN, TYP. SEE TREE PROTECTION AND REMOVALS PLANS.
- F. PROVIDE SMOOTH TRANSITION TO EXISTING PATH.
- G. EXISTING CURBS AT UNIVERSAL ACCESS TRANSITION STRUCTURE TO BE REPAIRED. SEE STRUCTURAL DWGS.
- H. NEW BICYCLE LAKEFRONT TRAIL.
- I. NEW DRINKING FOUNTAIN LOCATION.
- J. TEMPORARY WORK LIMITS FOR CONNECTING PATH WORK TO BE COORDINATED WITH CHICAGO PARK DISTRICT WHEN NEW TRAIL IS OPEN TO THE PUBLIC.
- K. SHEET PILE / CONCRETE STEPPED REVETMENT TRANSITION STRUCTURE TO MATCH EXISTING AT 51ST STREET (SEE STRUCTURAL SHEETS).
- L. NO LAKESIDE TRAIL MIX WHERE PEDESTRIAN PATH IS ADJACENT TO NEW REVETMENT.
- M. SEE DYNAMIC REVETMENT AND OFFSHORE REEF DETAILS.
- N. SEE LANDSCAPE PLAN SHEETS FOR NATIVE AREA PLANTING.
- O. WORK LIMITS.
- P. SALVAGED CARVED LIMESTONE.

LEGEND

---	WORK LIMITS	1
---	GRADING LIMIT LINE	2
[Pattern]	PEDESTRIAN PATH	3
[Pattern]	BIKE PATH	4
[Pattern]	CONCRETE PAVEMENT	5
[Pattern]	GRAVEL	6
[Pattern]	VEHICULAR ACCESS GRAVEL	7
[Pattern]	STONE SEATING	8
[Pattern]	MIX TRANSITION STONE	9
---	CONCRETE PAVEMENT WITH THICKENED EDGE	10
---	CONTROL JOINT	11
---	EXPANSION JOINT	12
[Symbol]	HANDRAIL	13
[Symbol]	BENCH	14
[Symbol]	BIKE RACKS	15
[Symbol]	DRINKING FOUNTAIN	16
[Symbol]	CONCRETE STAIRS	17
[Symbol]	RETAINING WALL	18
[Symbol]	SEAT WALL	19
[Symbol]	TALL CONCRETE CURB AT RAMP	20
[Symbol]	SIGN	21
[Symbol]	NO DIVING SIGN	22
[Symbol]	NATURAL AREA SPLIT RAIL FENCE	23
[Symbol]	DUNE AREA SPLIT RAIL FENCE	24
[Symbol]	STONE TREE WELL	25

KEY MAP



NOT FOR CONSTRUCTION



CHICAGO SHORELINE PROTECTION PROJECT
 MORGAN SHOAL REVETMENT RECONSTRUCTION
 45TH STREET TO 51ST STREET
 CHICAGO, IL 60653
 CHICAGO PARK DISTRICT
 CITY OF CHICAGO, MAYOR LORI E. LIGHTFOOT

Architect of Record:
SMITHGROUP
 ADDRESS: 35 EAST WACKER SUITE 800
 CHICAGO, ILLINOIS 60601
 PHONE: 312.641.0770
 WEB: www.smithgroup.com

Stantec Consulting Services, Inc.
 Chicago, IL
 Structural Engineers of Record

Infrastructure Engineering, Inc.
 Chicago, IL
 Civil Engineers of Record

Latent Design Corporation
 Chicago, IL
 Architects

Wang Engineering, Inc.
 Lombard, IL
 Geotechnical Consultant

Living Habitats, LLC
 Chicago, IL
 Ecological Consultant

American Surveying & Engineering
 Chicago, IL
 Surveying Consultant

CCJM Engineers
 Chicago, IL
 MEP Consultant

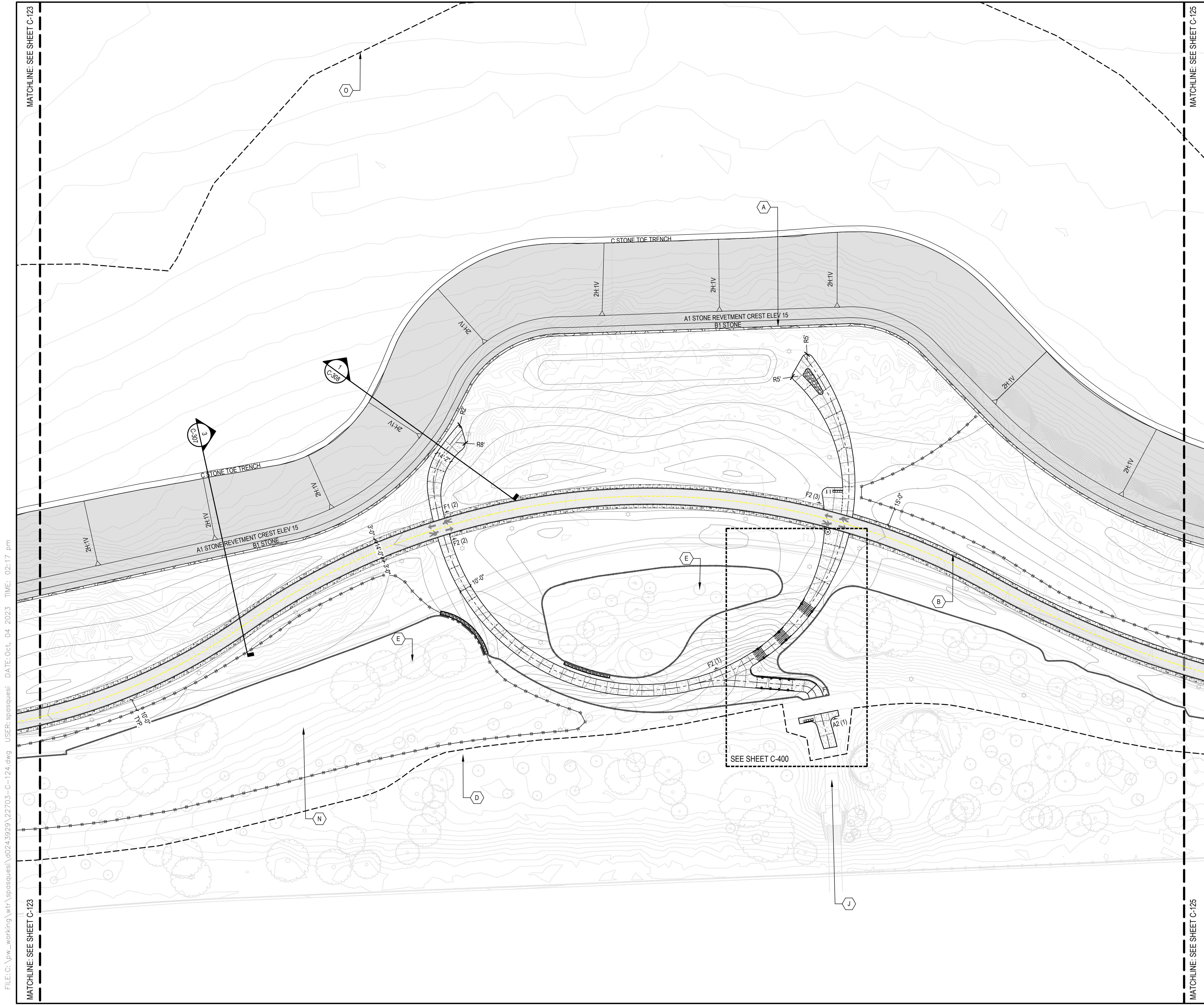
Thornton Tomasetti
 Chicago, IL
 Structural Consultant

Mark	Description	Date
XX	Initial SHPO Submittal	03/2024

PBC Project Name: Chicago Shoreline Protection Project
 PBC Contact No.: 22703
 Project No.: 13576
 Title:

SITE PLAN - A

Sheet **C-123**



SHEET NOTES

1. INFORMATION PRESENTED IS BASED ON SURVEY DATED 1998/9, UTILITY INFORMATION FROM THE CONTRACT PLANS FOR IMPROVEMENT OF US ROUTE 41 (SOUTH LAKE SHORE DRIVE) DATED DECEMBER, 2001, AND AERIAL VIEW PHOTOGRAPHY FROM NEARMAP DATED JULY, 2021.
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3. TOPOGRAPHIC INFORMATION IS ASSUMED LOW WATER DATUM (LWD) FOR LAKE MICHIGAN. TO CONVERT TO CHICAGO CITY DATUM (CCD) SUBTRACT 1.145 FEET.
4. SEE SHEETS C-101-C-103 FOR BASELINE CONTROL POINT COORDINATES.

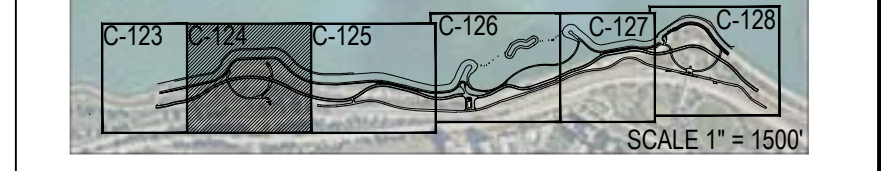
KEYED NOTES

- A. TOP OF SHORELINE PROTECTION. SEE CIVIL CROSS SECTIONS.
- B. 3' WIDE GRAVEL SHOULDER ALONG PEDESTRIAN PATH, TYP.
- C. PROTECT EXISTING PEDESTRIAN PATH TO REMAIN.
- D. PROTECT EXISTING BIKE PATH TO REMAIN, TYP.
- E. PROTECT EXISTING TREES TO REMAIN, TYP. SEE TREE PROTECTION AND REMOVALS PLANS.
- F. PROVIDE SMOOTH TRANSITION TO EXISTING PATH.
- G. EXISTING CURBS AT UNIVERSAL ACCESS TRANSITION STRUCTURE TO BE REPAIRED. SEE STRUCTURAL DWGS.
- H. NEW BICYCLE LAKEFRONT TRAIL.
- I. NEW DRINKING FOUNTAIN LOCATION.
- J. TEMPORARY WORK LIMITS FOR CONNECTING PATH WORK TO BE COORDINATED WITH CHICAGO PARK DISTRICT WHEN NEW TRAIL IS OPEN TO THE PUBLIC.
- K. SHEET PILE / CONCRETE STEPPED REVETMENT TRANSITION STRUCTURE TO MATCH EXISTING AT 51ST STREET (SEE STRUCTURAL SHEETS).
- L. NO LAKESIDE TRAIL MIX WHERE PEDESTRIAN PATH IS ADJACENT TO NEW REVETMENT.
- M. SEE DYNAMIC REVETMENT AND OFFSHORE REEF DETAILS.
- N. SEE LANDSCAPE PLAN SHEETS FOR NATIVE AREA PLANTING.
- O. WORK LIMITS.
- P. SALVAGED CARVED LIMESTONE.

LEGEND

- WORK LIMITS
- GRADING LIMIT LINE
- PEDESTRIAN PATH
- BIKE PATH
- CONCRETE PAVEMENT
- GRAVEL
- VEHICULAR ACCESS GRAVEL
- STONE SEATING
- MIX TRANSITION STONE
- CONCRETE PAVEMENT WITH THICKENED EDGE
- CONTROL JOINT
- EXPANSION JOINT
- HANDRAIL
- BENCH
- BIKE RACKS
- DRINKING FOUNTAIN
- CONCRETE STAIRS
- RETAINING WALL
- SEAT WALL
- TALL CONCRETE CURB AT RAMP
- SIGN
- ⊗ NO DIVING SIGN
- ⊗ NATURAL AREA SPLIT RAIL FENCE
- ⊕ DUNE AREA SPLIT RAIL FENCE
- ⌒ STONE TREE WELL

KEY MAP



NOT FOR CONSTRUCTION



CHICAGO SHORELINE PROTECTION PROJECT
 MORGAN SHOAL REVETMENT RECONSTRUCTION
 45TH STREET TO 51ST STREET
 CHICAGO, IL 60653

CITY OF CHICAGO, MAYOR LORI E. LIGHTFOOT
 CHICAGO PARK DISTRICT

Architect of Record:
SMITHGROUP
 ADDRESS: 35 EAST WACKER SUITE 800
 CHICAGO, ILLINOIS 60601
 PHONE: 312.641.0770
 WEB: www.smithgroup.com

Structural Engineers of Record:
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 Chicago, IL
Structural Engineers of Record

Civil Engineers of Record:
Infrastructure Engineering, Inc.
 Chicago, IL
Civil Engineers of Record

Architects:
Latent Design Corporation
 Chicago, IL
Architects

Geotechnical Consultant:
Wang Engineering, Inc.
 Lombard, IL
Geotechnical Consultant

Ecological Consultant:
Living Habitats, LLC
 Chicago, IL
Ecological Consultant

Surveying Consultant:
American Surveying & Engineering
 Chicago, IL
Surveying Consultant

Mechanical, Electrical, and Plumbing (MEP) Consultant:
CCJM Engineers
 Chicago, IL
MEP Consultant

Structural Consultant:
Thornton Tomasetti
 Chicago, IL
Structural Consultant

Site Plan - B
C-124

FILE: C:\pw_working\wtr_sposques\0243929\22703-C-124.dwg USER: sposques DATE: Oct, 04 2023 TIME: 02:17 pm

MATCHLINE: SEE SHEET C-123

MATCHLINE: SEE SHEET C-123

MATCHLINE: SEE SHEET C-125

MATCHLINE: SEE SHEET C-125

FILE: C:\pw_working\wtr_sposques\024-3929_22703-C-125.dwg USER: sposques DATE: Oct_04_2023 TIME: 02:28 pm

MATCHLINE: SEE SHEET C-124

MATCHLINE: SEE SHEET C-124

MATCHLINE: SEE SHEET C-126

MATCHLINE: SEE SHEET C-126

SHEET NOTES

- INFORMATION PRESENTED IS BASED ON SURVEY DATED 1998/9, UTILITY INFORMATION FROM THE CONTRACT PLANS FOR IMPROVEMENT OF US ROUTE 41 (SOUTH LAKE SHORE DRIVE) DATED DECEMBER, 2001, AND AERIAL VIEW PHOTOGRAPHY FROM NEARMAP DATED JULY, 2021.
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- SEE SHEETS C-101-C-103 FOR BASELINE CONTROL POINT COORDINATES.

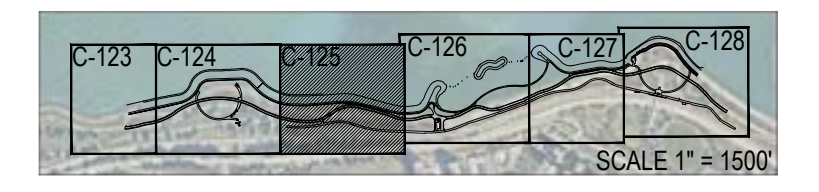
KEYED NOTES

- TOP OF SHORELINE PROTECTION. SEE CIVIL CROSS SECTIONS.
- 3' WIDE GRAVEL SHOULDER ALONG PEDESTRIAN PATH, TYP.
- PROTECT EXISTING PEDESTRIAN PATH TO REMAIN.
- PROTECT EXISTING BIKE PATH TO REMAIN, TYP.
- PROTECT EXISTING TREES TO REMAIN, TYP. SEE TREE PROTECTION AND REMOVALS PLANS.
- PROVIDE SMOOTH TRANSITION TO EXISTING PATH.
- EXISTING CURBS AT UNIVERSAL ACCESS TRANSITION STRUCTURE TO BE REPAIRED. SEE STRUCTURAL DWGS.
- NEW BICYCLE LAKEFRONT TRAIL.
- NEW DRINKING FOUNTAIN LOCATION.
- TEMPORARY WORK LIMITS FOR CONNECTING PATH WORK TO BE COORDINATED WITH CHICAGO PARK DISTRICT WHEN NEW TRAIL IS OPEN TO THE PUBLIC.
- SHEET PILE / CONCRETE STEPPED REVETMENT TRANSITION STRUCTURE TO MATCH EXISTING AT 51ST STREET (SEE STRUCTURAL SHEETS).
- NO LAKESIDE TRAIL MIX WHERE PEDESTRIAN PATH IS ADJACENT TO NEW REVETMENT.
- SEE DYNAMIC REVETMENT AND OFFSHORE REEF DETAILS.
- SEE LANDSCAPE PLAN SHEETS FOR NATIVE AREA PLANTING.
- WORK LIMITS.
- SALVAGED CARVED LIMESTONE.

LEGEND

- WORK LIMITS
- GRADING LIMIT LINE
- PEDESTRIAN PATH (1 C-510)
- BIKE PATH (2 C-510)
- CONCRETE PAVEMENT (4 C-510)
- GRAVEL (1 C-510)
- VEHICULAR ACCESS GRAVEL (8 C-510)
- STONE SEATING (2 C-512)
- MIX TRANSITION STONE (4 C-512)
- CONCRETE PAVEMENT WITH THICKENED EDGE (7 C-510)
- CONTROL JOINT
- EXPANSION JOINT
- HANDRAIL
- BENCH (1 L-501)
- BIKE RACKS (2 L-501)
- DRINKING FOUNTAIN (3 L-501)
- CONCRETE STAIRS (1 C-511)
- RETAINING WALL (2 C-513)
- SEAT WALL (1 C-513)
- TALL CONCRETE CURB AT RAMP (9 C-510)
- SIGN
- NO DIVING SIGN
- NATURAL AREA SPLIT RAIL FENCE (4 L-501)
- DUNE AREA SPLIT RAIL FENCE (5 L-501)
- STONE TREE WELL (6 C-513)

KEY MAP



NOT FOR CONSTRUCTION



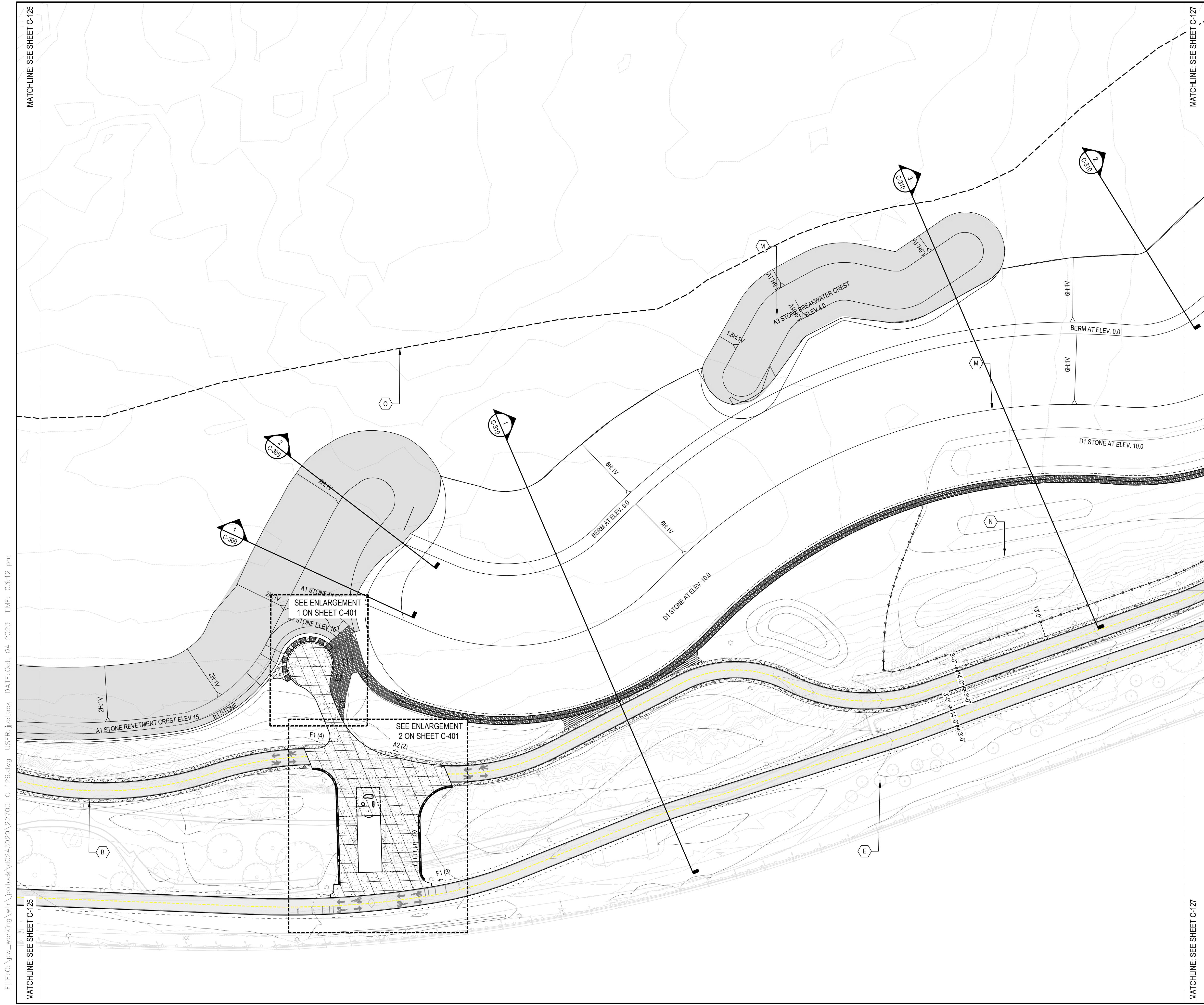
CHICAGO SHORELINE PROTECTION PROJECT
MORGAN SHOAL REVETMENT RECONSTRUCTION
45TH STREET TO 51ST STREET
CHICAGO, IL 60653
CHICAGO PARK DISTRICT
CITY OF CHICAGO, MAYOR LORI E. LIGHTFOOT

Architect of Record:
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ADDRESS: 35 EAST WACKER SUITE 800
CHICAGO, ILLINOIS 60601
PHONE: 312.641.0770
WEB: www.smithgroup.com

Structural Engineers of Record:
Stantec Consulting Services, Inc.
Chicago, IL
Civil Engineers of Record:
Infrastructure Engineering, Inc.
Chicago, IL
Civil Engineers of Record:
Latent Design Corporation
Chicago, IL
Architects:
Wang Engineering, Inc.
Lombard, IL
Geotechnical Consultant:
Living Habitats, LLC
Chicago, IL
Ecological Consultant:
American Surveying & Engineering
Chicago, IL
Surveying Consultant:
CCJM Engineers
Chicago, IL
MEP Consultant:
Thornton Tomasetti
Chicago, IL
Structural Consultant:

Issuance	Mark	Description	Date
XX	Initial SHPO Submittal		03/20/24

PBC Project Name: Chicago Shoreline Protection Project
PBC Contract No.: 22703
Project No.: 13576
Title: **SITE PLAN - C**
Sheet: **C-125**



SHEET NOTES

- INFORMATION PRESENTED IS BASED ON SURVEY DATED 1998/9, UTILITY INFORMATION FROM THE CONTRACT PLANS FOR IMPROVEMENT OF US ROUTE 41 (SOUTH LAKE SHORE DRIVE) DATED DECEMBER, 2001, AND AERIAL VIEW PHOTOGRAPHY FROM NEARMAP DATED JULY, 2021.
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- SEE SHEETS C-101-C-103 FOR BASELINE CONTROL POINT COORDINATES.

KEYED NOTES

- TOP OF SHORELINE PROTECTION. SEE CIVIL CROSS SECTIONS.
- 3' WIDE GRAVEL SHOULDER ALONG PEDESTRIAN PATH, TYP.
- PROTECT EXISTING PEDESTRIAN PATH TO REMAIN.
- PROTECT EXISTING BIKE PATH TO REMAIN, TYP.
- PROTECT EXISTING TREES TO REMAIN, TYP. SEE TREE PROTECTION AND REMOVALS PLANS.
- PROVIDE SMOOTH TRANSITION TO EXISTING PATH.
- EXISTING CURBS AT UNIVERSAL ACCESS TRANSITION STRUCTURE TO BE REPAIRED. SEE STRUCTURAL DWGS.
- NEW BICYCLE LAKEFRONT TRAIL.
- NEW DRINKING FOUNTAIN LOCATION.
- TEMPORARY WORK LIMITS FOR CONNECTING PATH WORK TO BE COORDINATED WITH CHICAGO PARK DISTRICT WHEN NEW TRAIL IS OPEN TO THE PUBLIC.
- SHEET PILE / CONCRETE STEPPED REVETMENT TRANSITION STRUCTURE TO MATCH EXISTING AT 51ST STREET (SEE STRUCTURAL SHEETS).
- NO LAKESIDE TRAIL MIX WHERE PEDESTRIAN PATH IS ADJACENT TO NEW REVETMENT.
- SEE DYNAMIC REVETMENT AND OFFSHORE REEF DETAILS.
- SEE LANDSCAPE PLAN SHEETS FOR NATIVE AREA PLANTING.
- WORK LIMITS.
- SALVAGED CARVED LIMESTONE.

LEGEND

--- (dashed)	WORK LIMITS	1	(C-510)
--- (dotted)	GRADING LIMIT LINE	2	(C-510)
---	PEDESTRIAN PATH	3	(C-510)
---	BIKE PATH	4	(C-510)
---	CONCRETE PAVEMENT	1	(C-510)
---	GRAVEL	8	(C-510)
---	VEHICULAR ACCESS GRAVEL	2	(C-512)
---	STONE SEATING	4	(C-512)
---	MIX TRANSITION STONE	7	(C-510)
---	CONCRETE PAVEMENT WITH THICKENED EDGE	5	(C-510)
---	CONTROL JOINT	6	(C-510)
---	EXPANSION JOINT	1&4	(C-511)
---	HANDRAIL	1	(L-501)
---	BENCH	2	(L-501)
---	BIKE RACKS	3	(L-501)
---	DRINKING FOUNTAIN	1	(C-511)
---	CONCRETE STAIRS	2	(C-513)
---	RETAINING WALL	1	(C-513)
---	SEAT WALL	9	(C-510)
---	TALL CONCRETE CURB AT RAMP		
---	SIGN		
---	NO DIVING SIGN	4	(L-501)
---	NATURAL AREA SPLIT RAIL FENCE	5	(L-501)
---	DUNE AREA SPLIT RAIL FENCE	6	(C-513)
---	STONE TREE WELL		

KEY MAP



NOT FOR CONSTRUCTION



CHICAGO SHORELINE PROTECTION PROJECT
 MORGAN SHOAL REVETMENT RECONSTRUCTION
 45TH STREET TO 51ST STREET
 CHICAGO, IL 60653

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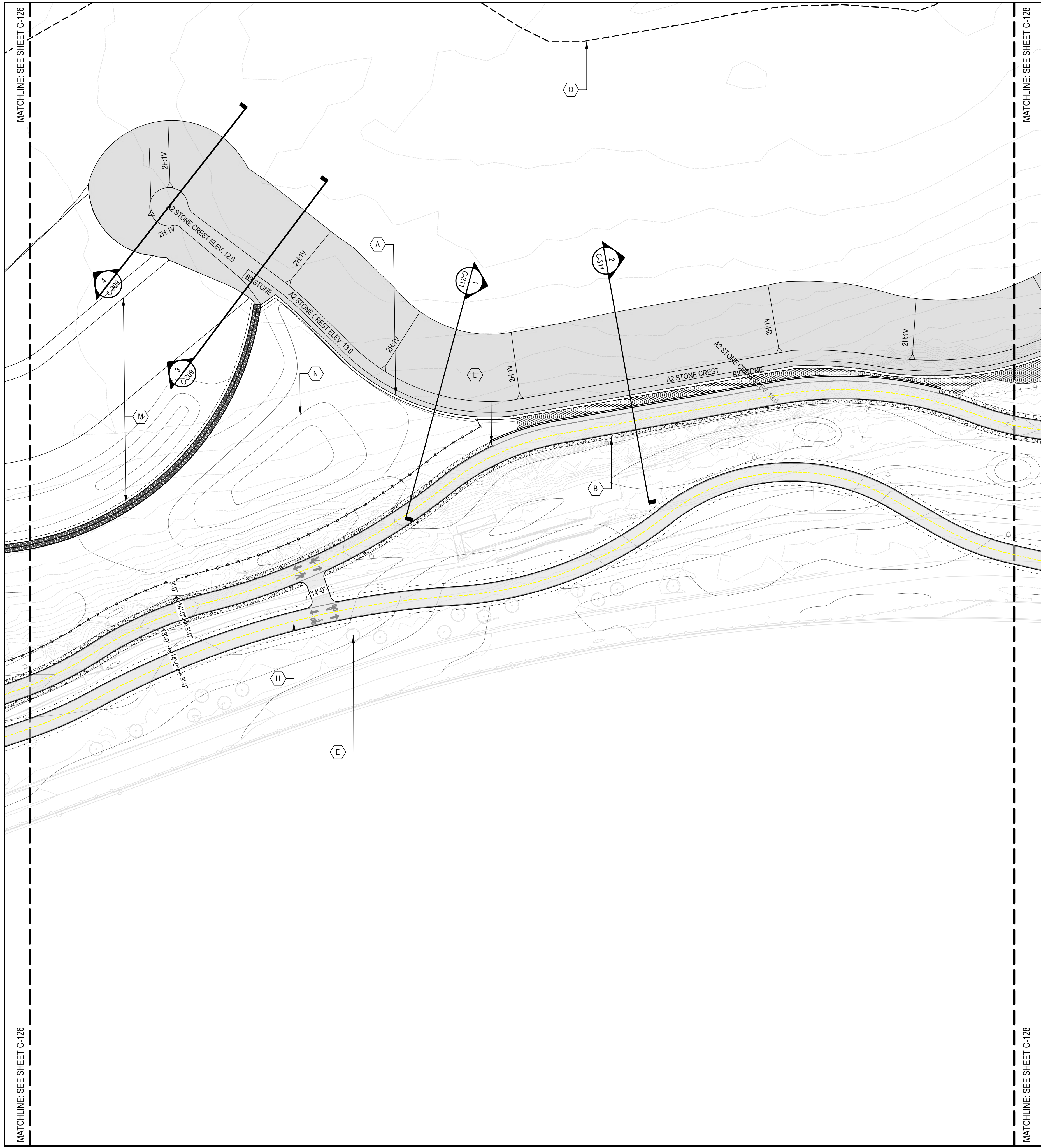
- Structural Engineers of Record:**
 Stantec Consulting Services, Inc.
 Chicago, IL
- Infrastructure Engineering, Inc.**
 Chicago, IL
 Civil Engineers of Record
- Latent Design Corporation**
 Chicago, IL
 Architects
- Wang Engineering, Inc.**
 Lombard, IL
 Geotechnical Consultant
- Living Habitats, LLC**
 Chicago, IL
 Ecological Consulting
- American Surveying & Engineering**
 Chicago, IL
 Surveying Consultant
- CCJM Engineers**
 Chicago, IL
 MEP Consultant
- Thornton Tomasetti**
 Chicago, IL
 Structural Consultant

Mark	Description	Date
XX	Initial SHPO Submittal	03/2024

PBC Project Name: Chicago Shoreline Protection Project
 PBC Contract No.: 22703
 Project No.: 13576
 Title: **SITE PLAN - D**

FILE: C:\pw_working\wtr\jpollock\0243929\22703-C-126.dwg USER: jpollock DATE: Oct, 04 2023 TIME: 03:12 pm

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MATCHLINE: SEE SHEET C-126

MATCHLINE: SEE SHEET C-126

MATCHLINE: SEE SHEET C-128

MATCHLINE: SEE SHEET C-128

SHEET NOTES

- INFORMATION PRESENTED IS BASED ON SURVEY DATED 1998/9, UTILITY INFORMATION FROM THE CONTRACT PLANS FOR IMPROVEMENT OF US ROUTE 41 (SOUTH LAKE SHORE DRIVE) DATED DECEMBER, 2001, AND AERIAL VIEW PHOTOGRAPHY FROM NEARMAP DATED JULY, 2021.
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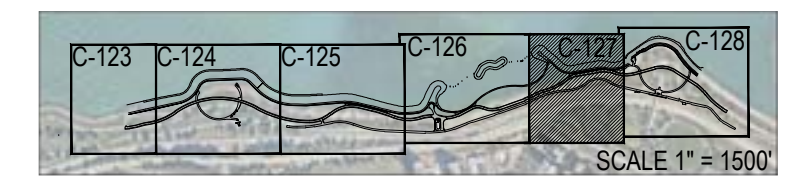
KEYED NOTES

- TOP OF SHORELINE PROTECTION, SEE CIVIL CROSS SECTIONS.
- 3' WIDE GRAVEL SHOULDER ALONG PEDESTRIAN PATH, TYP.
- PROTECT EXISTING PEDESTRIAN PATH TO REMAIN.
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- SHEET PILE / CONCRETE STEPPED REVETMENT TRANSITION STRUCTURE TO MATCH EXISTING AT 51ST STREET (SEE STRUCTURAL SHEETS).
- NO LAKESIDE TRAIL MIX WHERE PEDESTRIAN PATH IS ADJACENT TO NEW REVETMENT.
- SEE DYNAMIC REVETMENT AND OFFSHORE REEF DETAILS.
- SEE LANDSCAPE PLAN SHEETS FOR NATIVE AREA PLANTING.
- WORK LIMITS.
- SALVAGED CARVED LIMESTONE.

LEGEND

---	WORK LIMITS	(1) C-510
---	GRADING LIMIT LINE	(2) C-510
---	PEDESTRIAN PATH	(4) C-510
---	BIKE PATH	(1) C-510
---	CONCRETE PAVEMENT	(8) C-510
---	GRAVEL	(2) C-512
---	VEHICULAR ACCESS GRAVEL	(4) C-512
---	STONE SEATING	(7) C-510
---	MIX TRANSITION STONE	(5) C-510
---	CONCRETE PAVEMENT WITH THICKENED EDGE	(6) C-510
---	CONTROL JOINT	(1&4) C-511
---	EXPANSION JOINT	(1) L-501
---	HANDRAIL	(2) L-501
---	BENCH	(3) L-501
---	BIKE RACKS	(1) C-511
---	DRINKING FOUNTAIN	(2) C-513
---	CONCRETE STAIRS	(1) C-513
---	RETAINING WALL	(9) C-510
---	SEAT WALL	(4) L-501
---	TALL CONCRETE CURB AT RAMP	(5) L-501
---	SIGN	(6) C-513
---	NO DIVING SIGN	
---	NATURAL AREA SPLIT RAIL FENCE	
---	DUNE AREA SPLIT RAIL FENCE	
---	STONE TREE WELL	

KEY MAP



NOT FOR CONSTRUCTION



CHICAGO SHORELINE PROTECTION PROJECT
MORGAN SHOAL REVETMENT RECONSTRUCTION
45TH STREET TO 51ST STREET
CHICAGO, IL 60653
CHICAGO PARK DISTRICT
CITY OF CHICAGO, MAYOR LORI E. LIGHTFOOT

Architect of Record:
SMITHGROUP
ADDRESS: 35 EAST WACKER SUITE 800
CHICAGO, ILLINOIS 60601
PHONE: 312.641.0770
WEB: www.smithgroup.com

Structural Engineers of Record:
Stantec Consulting Services, Inc.
Chicago, IL

Civil Engineers of Record:
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Chicago, IL

Architects:
Latent Design Corporation
Chicago, IL

Geotechnical Consultant:
Wang Engineering, Inc.
Lombard, IL

Ecological Consultant:
Living Habitats, LLC
Chicago, IL

Surveying Consultant:
American Surveying & Engineering
Chicago, IL

MEP Consultant:
CCJM Engineers
Chicago, IL

Structural Consultant:
Thornton Tomasetti
Chicago, IL

Mark	Description	Date
XX	Initial SHPO Submittal	03/2024

PBC Project Name: Chicago Shoreline Protection Project
PBC Contract No.: 22703
Project No.: 13576
Title:

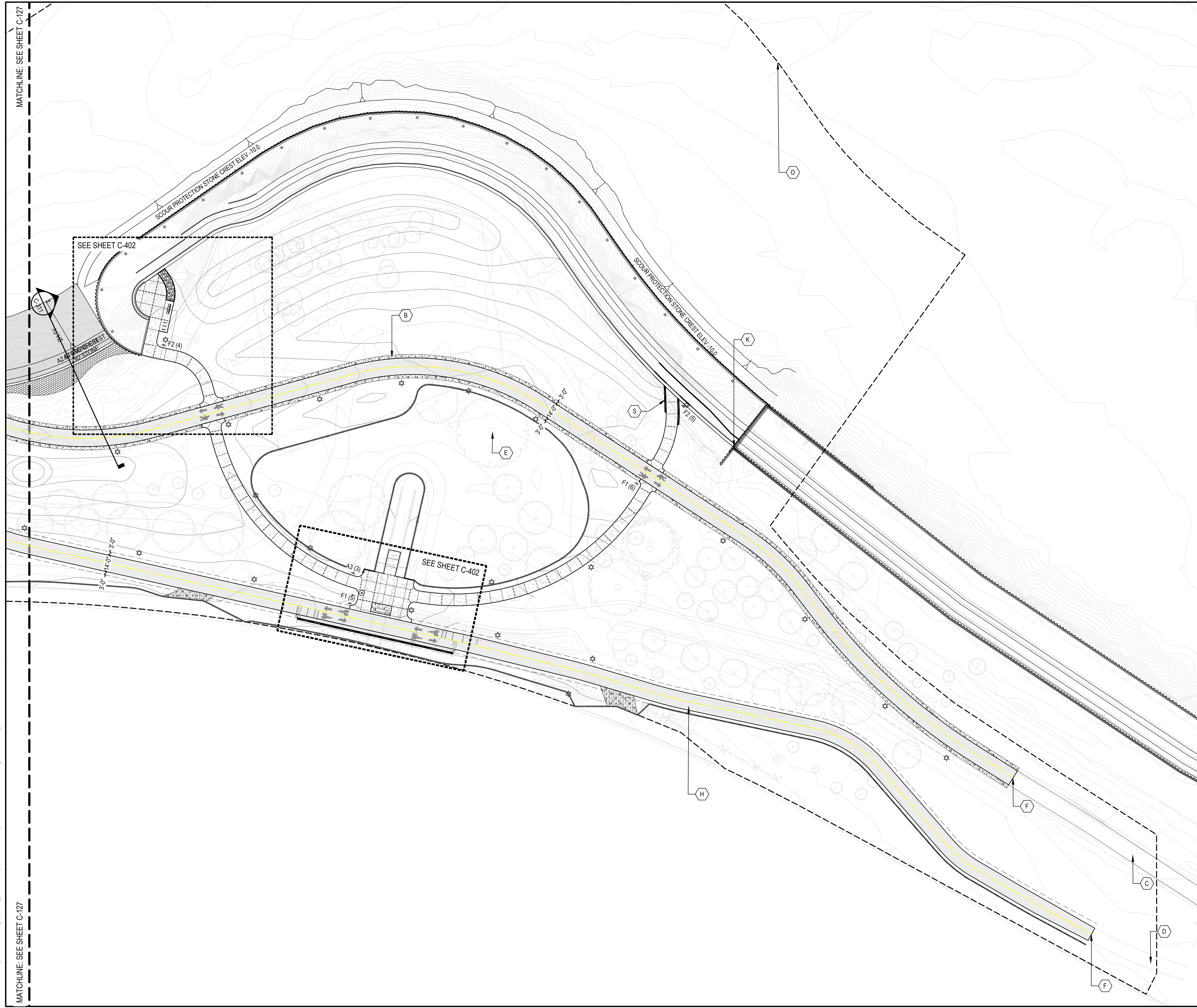
SITE PLAN - E

Sheet
C-127

MATCHLINE: SEE SHEET C-127

FILE: C:\pw_working\wtr\jpollock\0243929\22703-C-128.dwg USER: jpollock DATE: Oct. 04 2023 TIME: 03:07 pm

MATCHLINE: SEE SHEET C-127



SHEET NOTES

- INFORMATION PRESENTED IS BASED ON SURVEY DATED 1998/9, UTILITY INFORMATION FROM THE CONTRACT PLANS FOR IMPROVEMENT OF US ROUTE 41 (SOUTH LAKE SHORE DRIVE) DATED DECEMBER, 2001, AND AERIAL VIEW PHOTOGRAPHY FROM NEARMAP DATED JULY, 2021.
- ALL INFORMATION IS APPROXIMATE. DRAWINGS ARE NOT FOR CONSTRUCTION.
- TOPOGRAPHIC INFORMATION IS ASSUMED LOW WATER DATUM (LWD) FOR LAKE MICHIGAN. TO CONVERT TO CHICAGO CITY DATUM (CCD) SUBTRACT 1.145 FEET.
- SEE SHEETS C-101-C-103 FOR BASELINE CONTROL POINT COORDINATES.

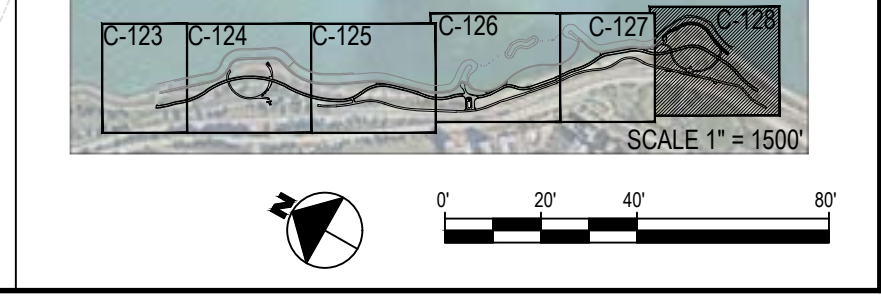
KEYED NOTES

- TOP OF SHORELINE PROTECTION. SEE CIVIL CROSS SECTIONS.
- 3' WIDE GRAVEL SHOULDER ALONG PEDESTRIAN PATH, TYP.
- PROTECT EXISTING PEDESTRIAN PATH TO REMAIN.
- PROTECT EXISTING BIKE PATH TO REMAIN, TYP.
- PROTECT EXISTING TREES TO REMAIN, TYP. SEE TREE PROTECTION AND REMOVALS PLANS.
- PROVIDE SMOOTH TRANSITION TO EXISTING PATH.
- EXISTING CURBS AT UNIVERSAL ACCESS TRANSITION STRUCTURE TO BE REPAIRED. SEE STRUCTURAL DWGS.
- NEW BICYCLE LAKEFRONT TRAIL.
- NEW DRINKING FOUNTAIN LOCATION.
- TEMPORARY WORK LIMITS FOR CONNECTING PATH WORK TO BE COORDINATED WITH CHICAGO PARK DISTRICT WHEN NEW TRAIL IS OPEN TO THE PUBLIC.
- SHEET PILE / CONCRETE STEPPED REVETMENT TRANSITION STRUCTURE TO MATCH EXISTING AT 51ST STREET (SEE STRUCTURAL SHEETS).
- NO LAKESIDE TRAIL MIX WHERE PEDESTRIAN PATH IS ADJACENT TO NEW REVETMENT.
- SEE DYNAMIC REVETMENT AND OFFSHORE REEF DETAILS.
- SEE LANDSCAPE PLAN SHEETS FOR NATIVE AREA PLANTING.
- WORK LIMITS.
- SALVAGED CARVED LIMESTONE.

LEGEND

	WORK LIMITS		1 C-510
	GRADING LIMIT LINE		2 C-510
	PEDESTRIAN PATH		4 C-510
	BIKE PATH		1 C-510
	CONCRETE PAVEMENT		8 C-510
	GRAVEL		2 C-512
	VEHICULAR ACCESS GRAVEL		4 C-512
	STONE SEATING		7 C-510
	MIX TRANSITION STONE		5 C-510
	CONCRETE PAVEMENT WITH THICKENED EDGE		6 C-510
	CONTROL JOINT		1 & 4 C-511
	EXPANSION JOINT		1 L-501
	HANDRAIL		2 L-501
	BENCH		3 L-501
	BIKE RACKS		1 C-511
	DRINKING FOUNTAIN		2 C-513
	CONCRETE STAIRS		1 C-513
	RETAINING WALL		9 C-510
	SEAT WALL		4 L-501
	TALL CONCRETE CURB AT RAMP		5 L-501
	SIGN		6 C-513
	NO DIVING SIGN		
	NATURAL AREA SPLIT RAIL FENCE		
	DUNE AREA SPLIT RAIL FENCE		
	STONE TREE WELL		

KEY MAP



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 Ecological Consultant

American Surveying & Engineering
 Chicago, IL
 Surveying Consultant

CCJM Engineers
 Chicago, IL
 MEP Consultant

Thornton Tomasetti
 Chicago, IL
 Structural Consultant

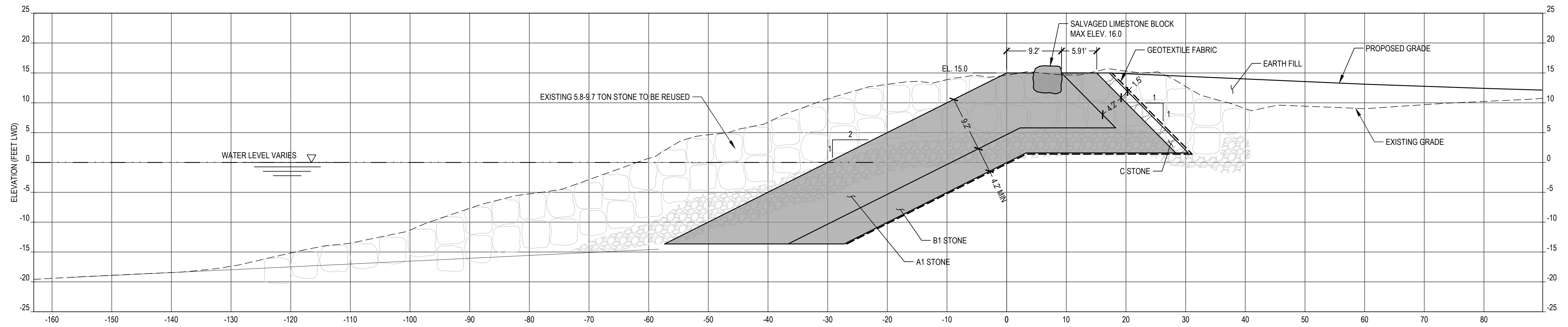
Mark	Description	Date
XX	Initial SHPO Submittal	03/2024

PBC Project Name: Chicago Shoreline Protection Project
 PBC Contact No.: 22703
 Project No.: 13576

Title: **SITE PLAN - F**

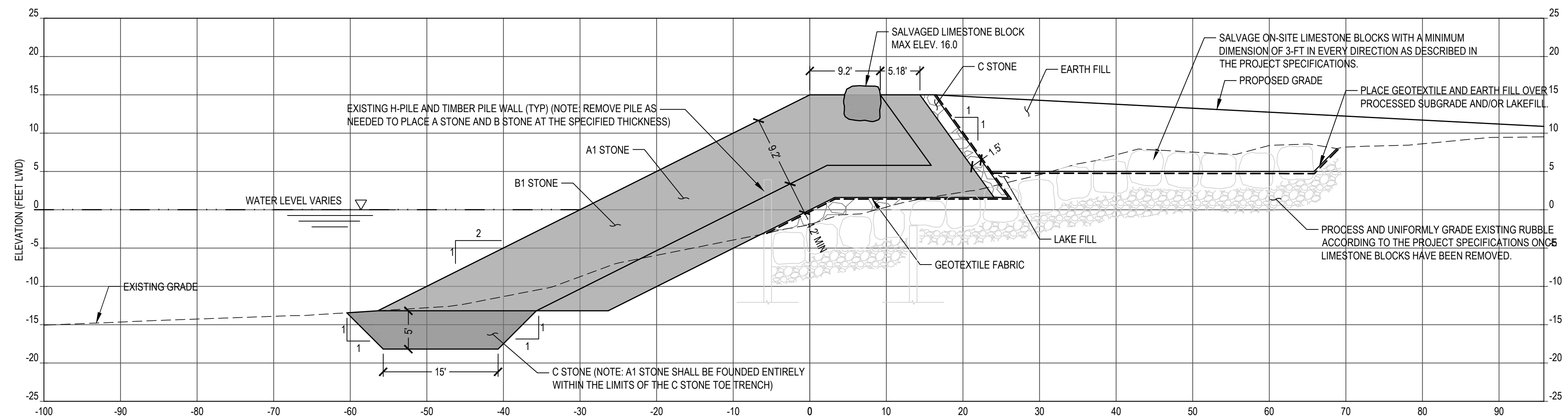
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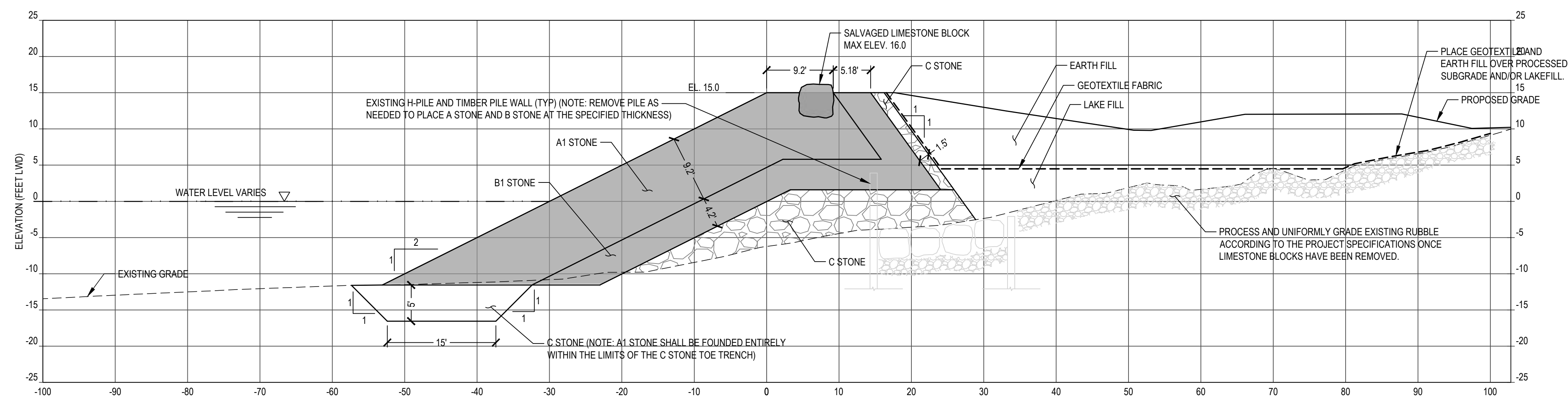
1 TYPICAL CROSS SECTION: PROPOSED NORTH REVETMENT AT TEMPORARY REVETMENT
APPLIES FROM STATION 0+00 TO STATION 1+00

SCALE: 1" = 10'



2 TYPICAL CROSS SECTION: NORTH REVETMENT WITH TOE TRENCH AND NO CORE STONE UNDER LAYER
APPLIES FROM STATION 1+00 TO STATION 2+25

SCALE: 1" = 10'



3 TYPICAL CROSS SECTION: NORTH REVETMENT WITH TOE TRENCH
APPLIES FROM STATION 2+25 TO STATION 5+40 AND STATION 6+77 TO STATION 16+65

SCALE: 1" = 10'

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ADDRESS: 35 EAST WACKER SUITE 900
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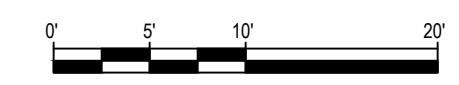
- Stantec Consulting Services, Inc. Chicago, IL Structural Engineers of Record
- Infrastructure Engineering, Inc. Chicago, IL Civil Engineers of Record
- Latent Design Corporation Chicago, IL Architects
- Wang Engineering, Inc. Lombard, IL Geotechnical Consultant
- Living Habitats, LLC Chicago, IL Ecological Consultant
- American Surveying & Engineering Chicago, IL Surveying Consultant
- CCJM Engineers Chicago, IL MEP Consultant
- Thornton Tomasetti Chicago, IL Structural Consultant

Mark	Description	Date
XX	Initial SHPO Submittal	03/2024

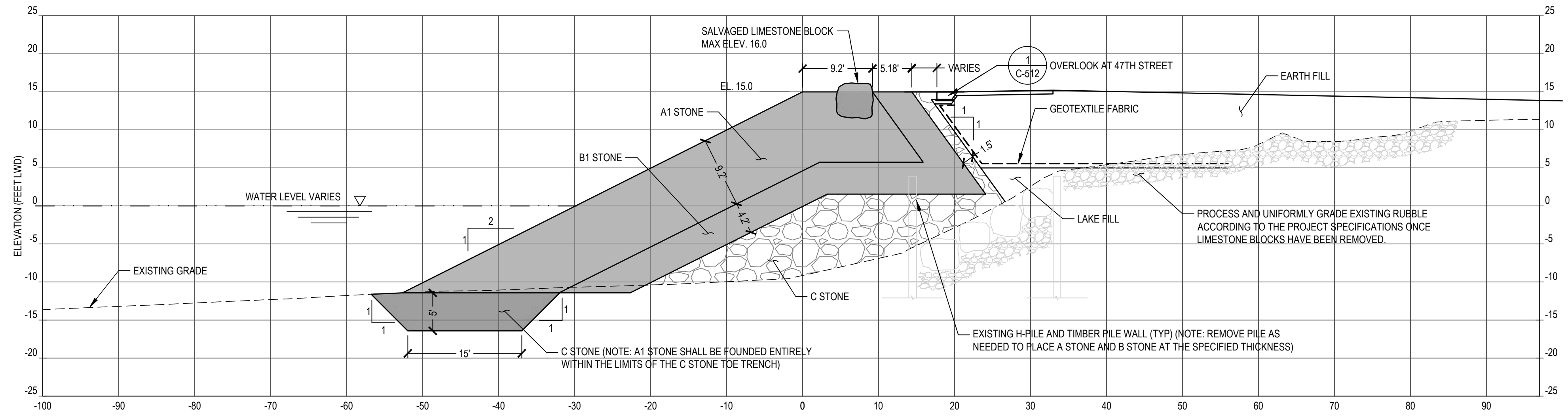
PBC Project Name: Chicago Shoreline Protection Project
PBC Contract No.: 22703
Project No.: 13576
Title:

NORTH REVETMENT CROSS SECTIONS

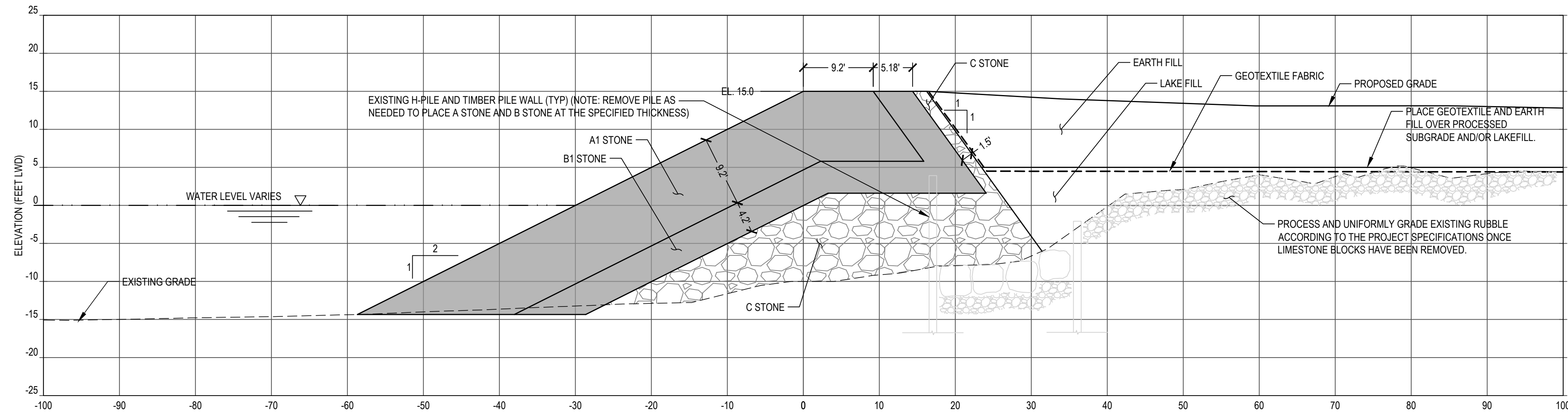
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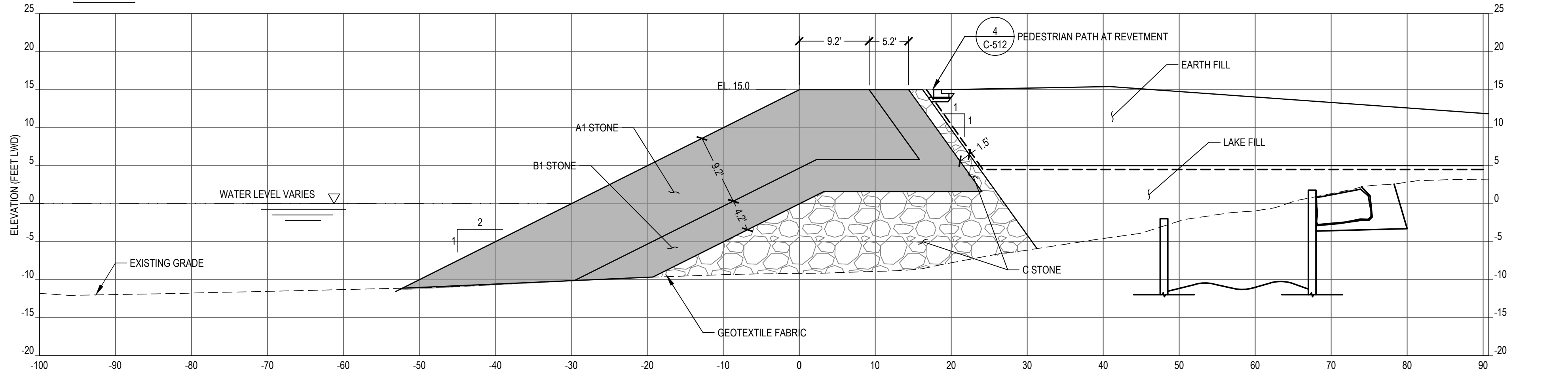
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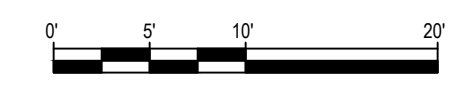
1 TYPICAL CROSS SECTION: NORTH REVETMENT WITH TOE TRENCH AND RETAINING WALL
 APPLIES FROM STATION 5+40 TO STATION 6+77
 SCALE: 1" = 10'



2 TYPICAL CROSS SECTION: NORTH REVETMENT NO TOE TRENCH
 APPLIES FROM STATION 16+65 TO STATION 18+37 AND STATION 21+83 TO STATION 24+80
 SCALE: 1" = 10'



3 TYPICAL CROSS SECTION: NORTH REVETMENT NO TOE TRENCH WITH TRAIL ADJACENT
 APPLIES FROM STATION 18+37 TO STATION 21+83
 SCALE: 1" = 10'



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Ecological Consultant:
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 Chicago, IL

Surveying Consultant:
American Surveying & Engineering
 Chicago, IL

MEP Consultant:
CCJM Engineers
 Chicago, IL

Structural Consultant:
Thornton Tomasetti
 Chicago, IL

Issuance		
Mark	Description	Date
XX	Initial SHPO Submittal	03/2024

PBC Project Name: Chicago Shoreline Protection Project
 PBC Contact No.: 22703
 Project No.: 13576

Title:
NORTH REVETMENT CROSS SECTIONS

Sheet
C-308

NOT FOR CONSTRUCTION



CHICAGO SHORELINE PROTECTION PROJECT
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MEP Consultant:
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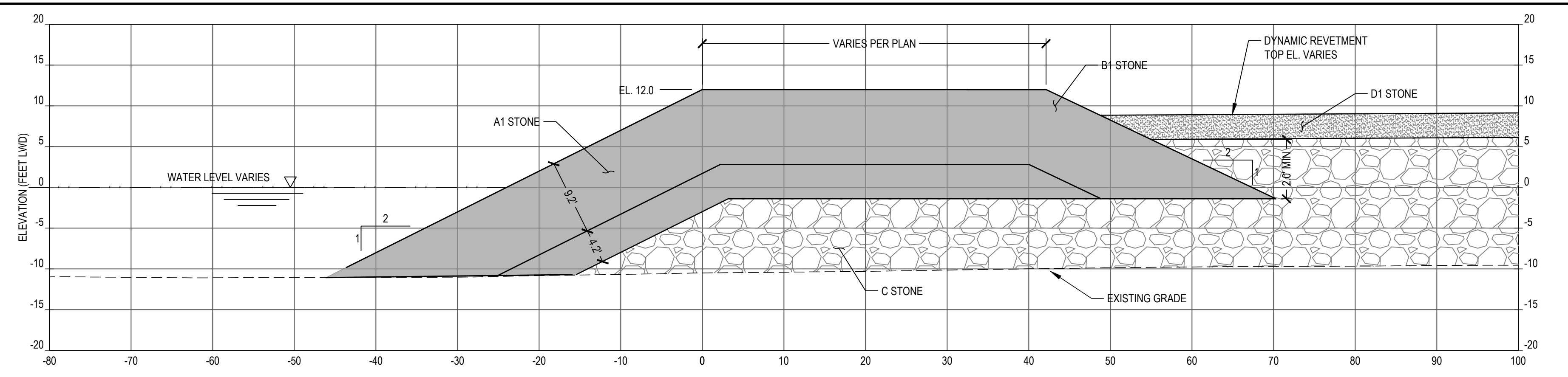
Structural Consultant:
Thornton Tomasetti
 Chicago, IL

Issuance		
Mark	Description	Date
XX	Initial SHPO Submittal	03/20/24

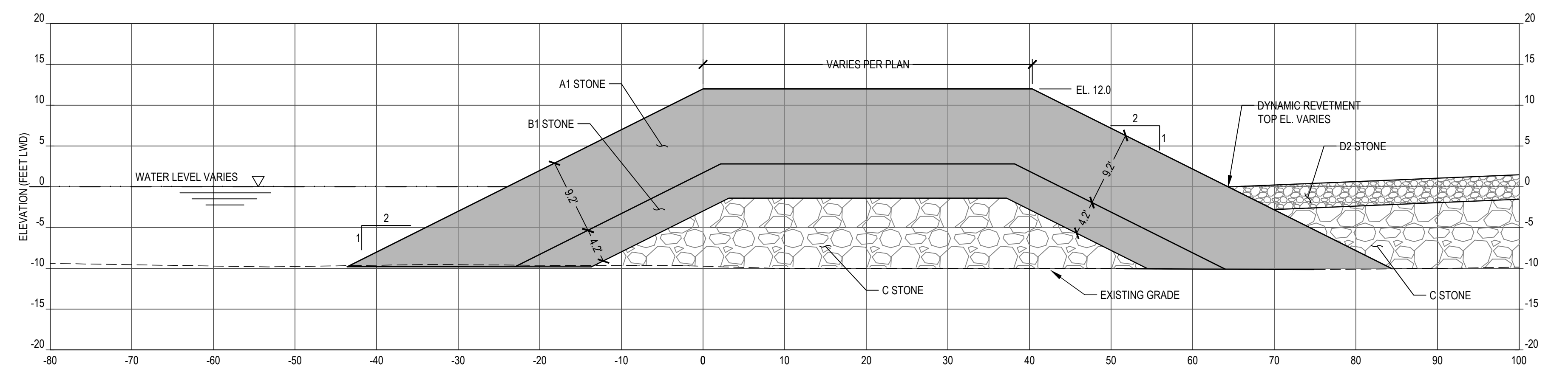
PBC Project Name: Chicago Shoreline Protection Project
 PBC Contact No.: 22703
 Project No.: 13576
 Title:

DYNAMIC REVETMENT HEADLAND SECTIONS

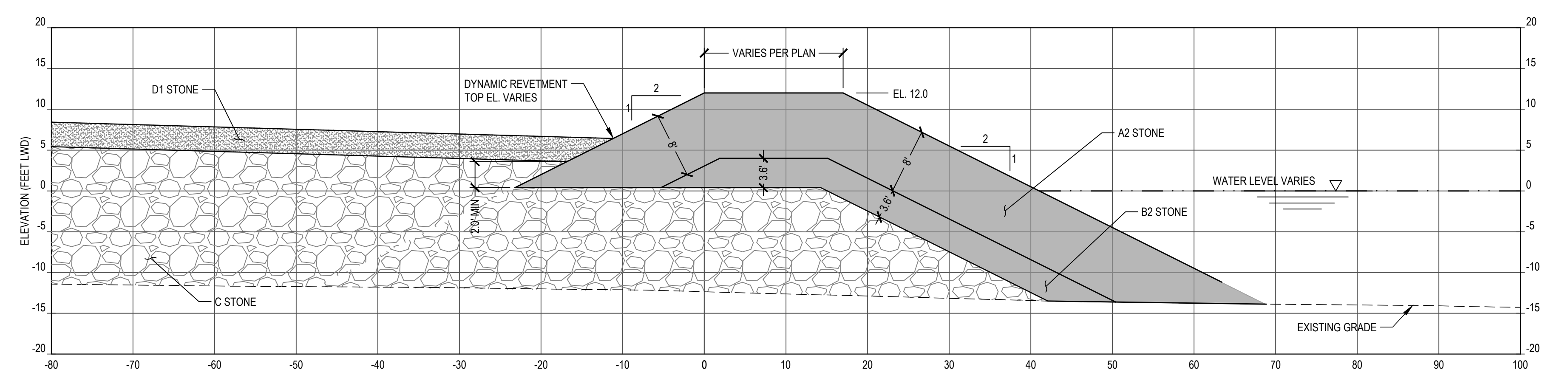
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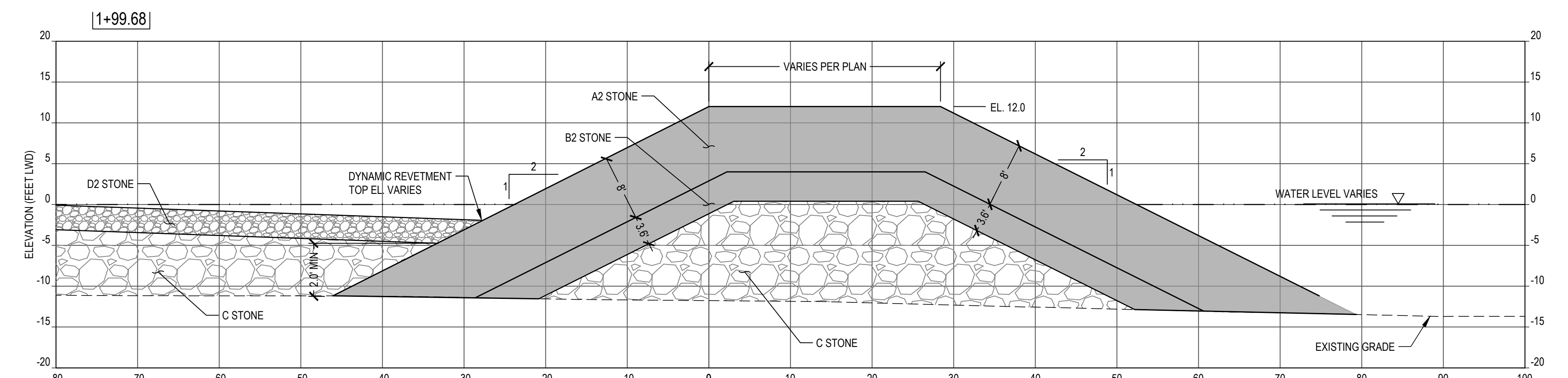
1 DYNAMIC REVETMENT NORTH HEADLAND CROSS SECTION
 APPLIES FROM STATION NR 25+65 TO STATION NR 27+25
 SCALE: 1" = 10'



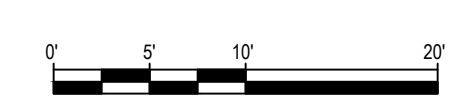
2 DYNAMIC REVETMENT NORTH HEADLAND CROSS SECTION
 APPLIES FROM STATION NR 27+25 TO END OF HEADLAND
 SCALE: 1" = 10'



3 DYNAMIC REVETMENT SOUTH HEADLAND CROSS SECTION
 APPLIES FROM STATION SR 0+00 TO STATION SR 0+85
 SCALE: 1" = 10'



4 DYNAMIC REVETMENT SOUTH HEADLAND CROSS SECTION
 APPLIES FROM STATION SR 0+85 TO END OF HEADLAND
 SCALE: 1" = 10'



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 MORGAN SHOAL REVETMENT RECONSTRUCTION
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 Chicago, IL
Infrastructure Engineering, Inc.
 Chicago, IL
Civil Engineers of Record

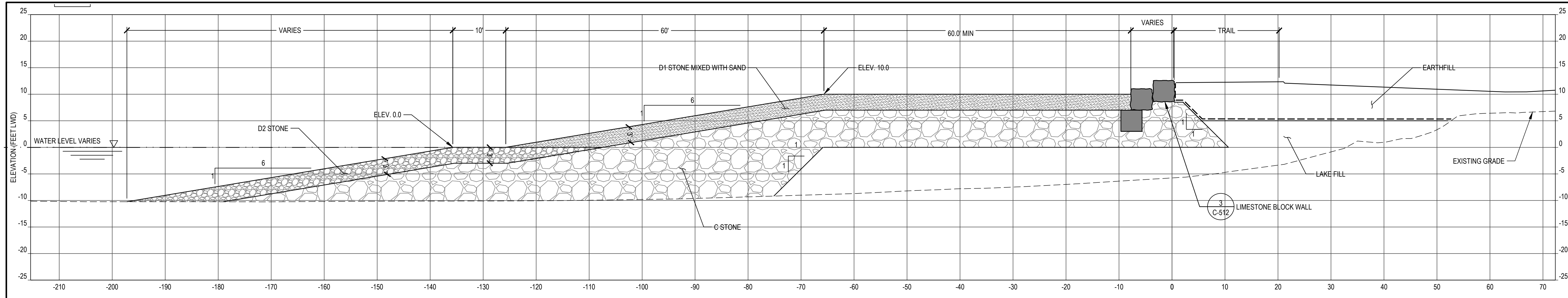
Architects:
Latent Design Corporation
 Chicago, IL
Wang Engineering, Inc.
 Lombard, IL
 Geotechnical Consultant
Living Habitats, LLC
 Chicago, IL
 Ecological Consultant
American Surveying & Engineering
 Chicago, IL
 Surveying Consultant
CCJM Engineers
 Chicago, IL
 MEP Consultant
Thornton Tomasetti
 Chicago, IL
 Structural Consultant

Mark	Description	Date
XX	Initial SHPO Submittal	03/2024

PBC Project Name: Chicago Shoreline Protection Project
 PBC Contract No.: 22703
 Project No.: 13576
 Title:

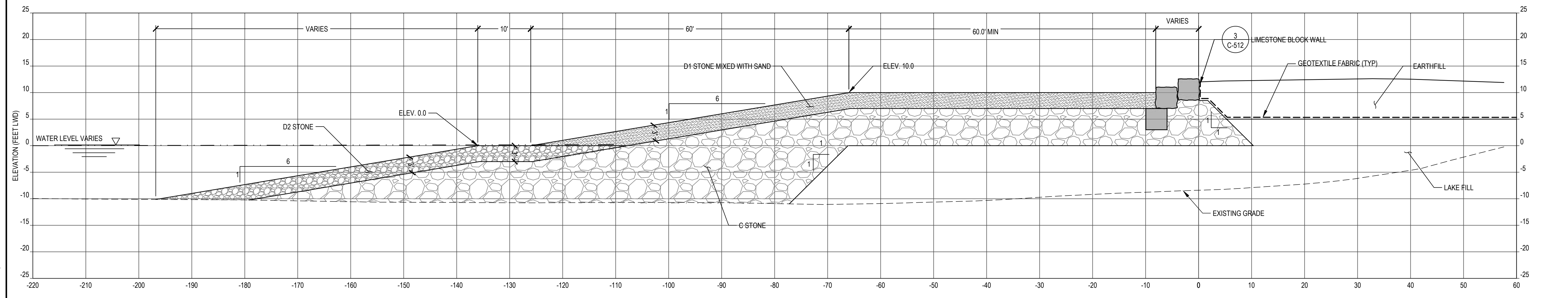
DYNAMIC REVETMENT CROSS SECTIONS

Sheet **C-310**



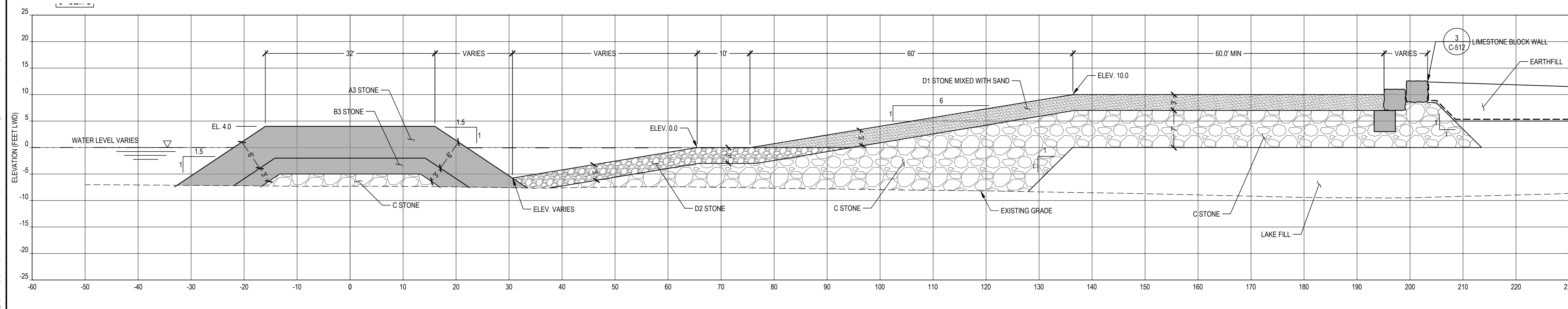
1 TYPICAL CROSS SECTION: DYNAMIC REVETMENT WITH TRAIL ADJACENT
 APPLIES FROM STATION DR 2+15 TO STATION 3+47

SCALE: 1" = 20'



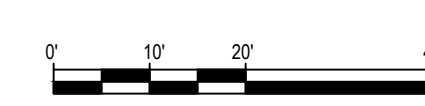
2 TYPICAL CROSS SECTION: DYNAMIC REVETMENT
 APPLIES FROM STATION DR 0+95 TO STATION DR 2+15 AND STATION DR 6+65 TO STATION DR 10+67

SCALE: 1" = 20'



3 TYPICAL CROSS SECTION: DETACHED BREAKWATER
 APPLIES FROM STATION DR 3+47 TO STATION DR 4+15

SCALE: 1" = 20'



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American Surveying & Engineering
 Chicago, IL
 Surveying Consultant

CCJM Engineers
 Chicago, IL
 MEP Consultant

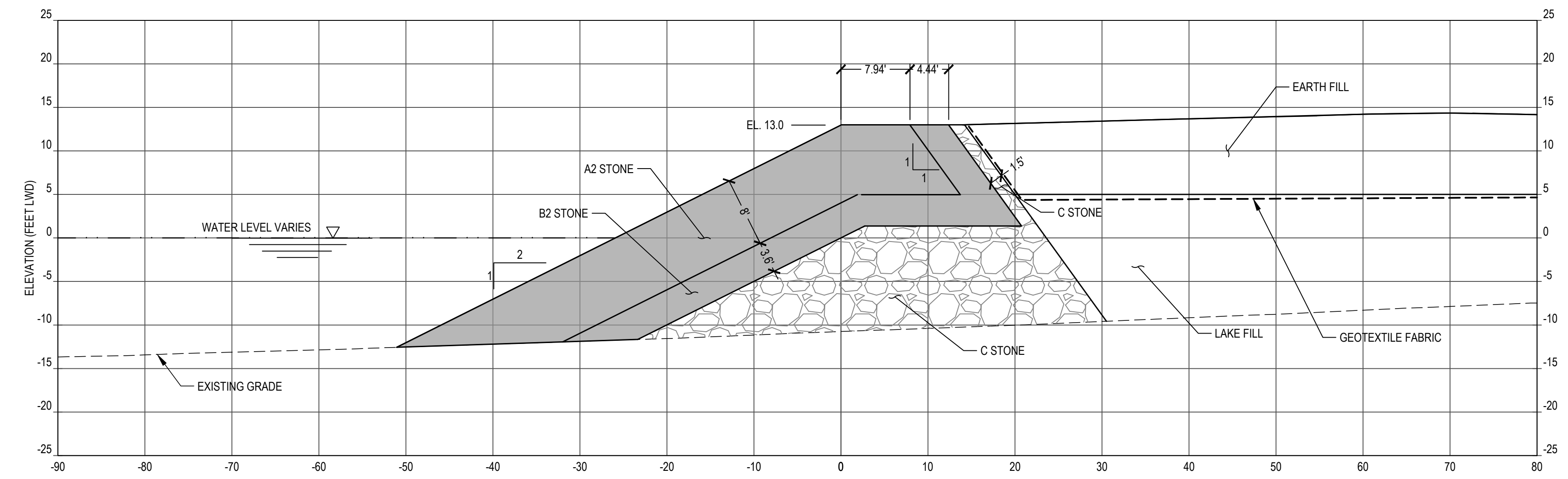
Thornton Tomasetti
 Chicago, IL
 Structural Consultant

Mark	Description	Date
XX	Initial SHPO Submittal	03/2024

PBC Project Name: Chicago Shoreline Protection Project
 PBC Contract No.: 22703
 Project No.: 13576
 Title:

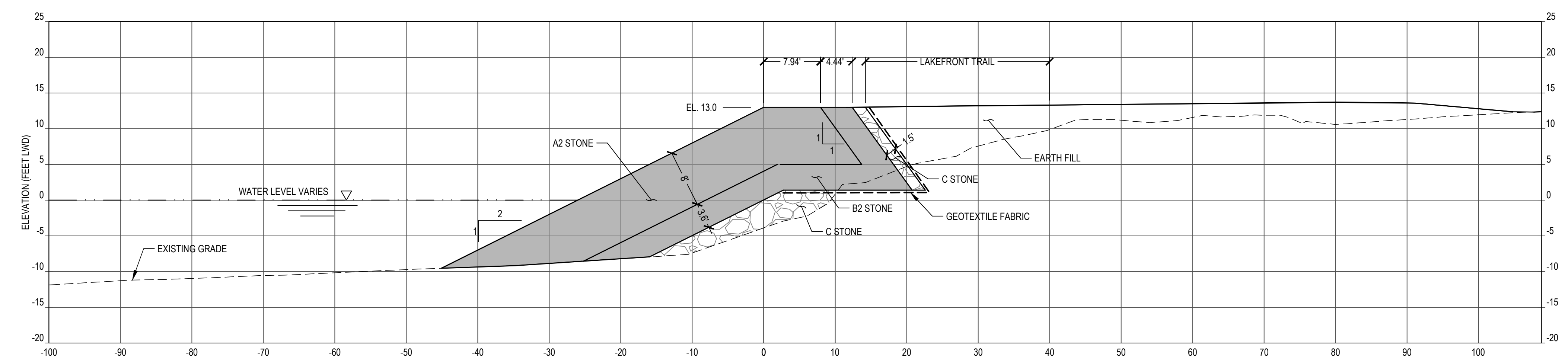
SOUTH REVETMENT CROSS SECTIONS

Sheet **C-311**



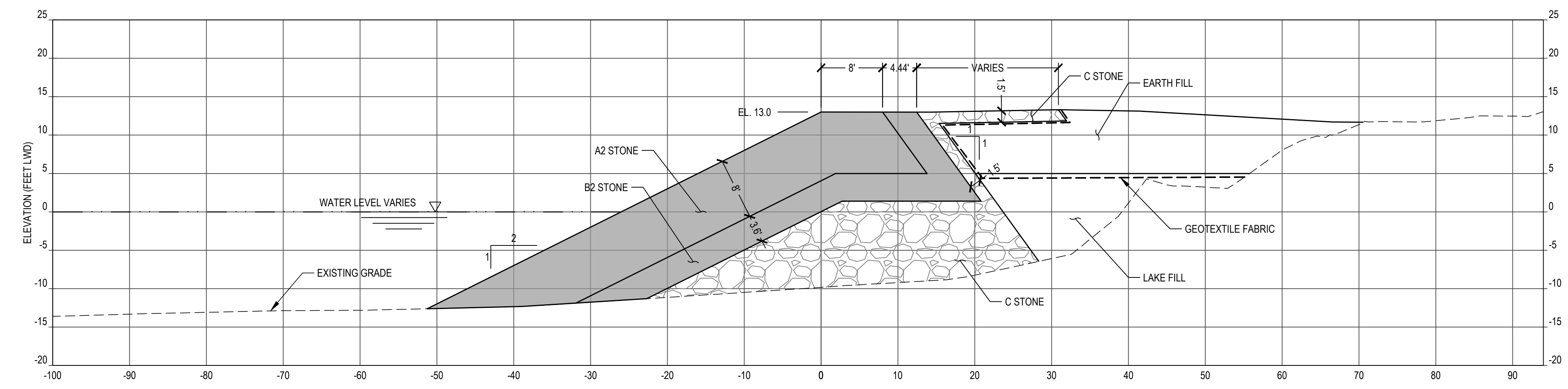
1 TYPICAL SECTION: SOUTH REVETMENT WITH PATH ADJACENT
 APPLIES FROM STATION SR 2+51 TO STATION SR 4+50

HORIZ SCALE: 1" = 10'
 VERT SCALE: 1" = 10'



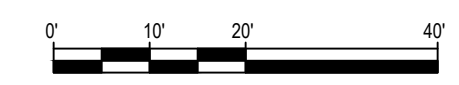
2 TYPICAL SECTION: SOUTH REVETMENT WITH PATH ADJACENT
 APPLIES FROM STATION SR 4+50 TO STATION SR 7+85

HORIZ SCALE: 1" = 10'
 VERT SCALE: 1" = 10'



3 TYPICAL SECTION: SOUTH REVETMENT
 APPLIES FROM STATION SR 7+85 TO STATION SR 8+98

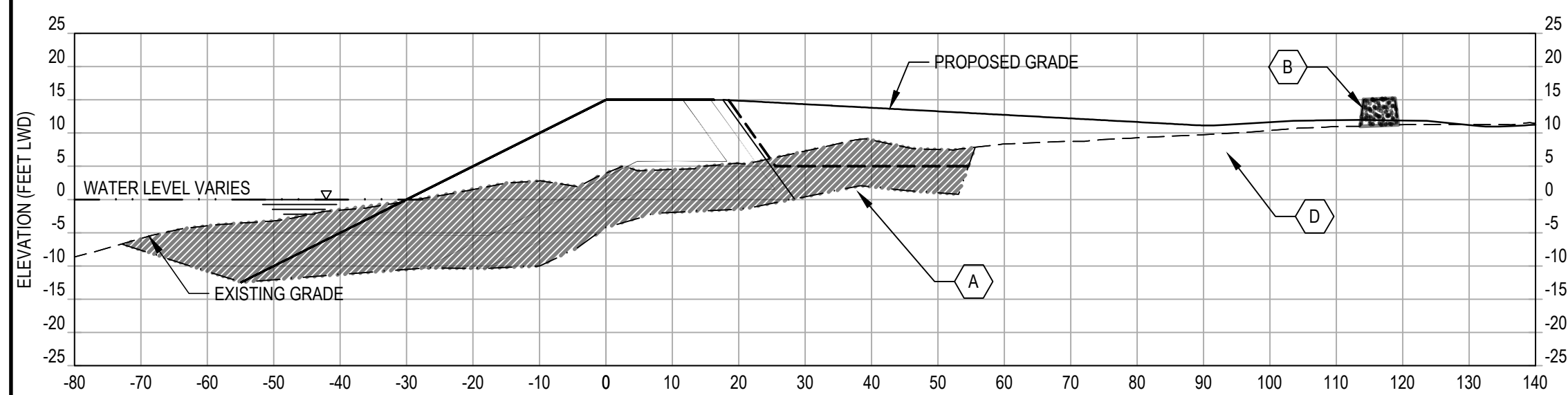
HORIZ SCALE: 1" = 10'
 VERT SCALE: 1" = 10'



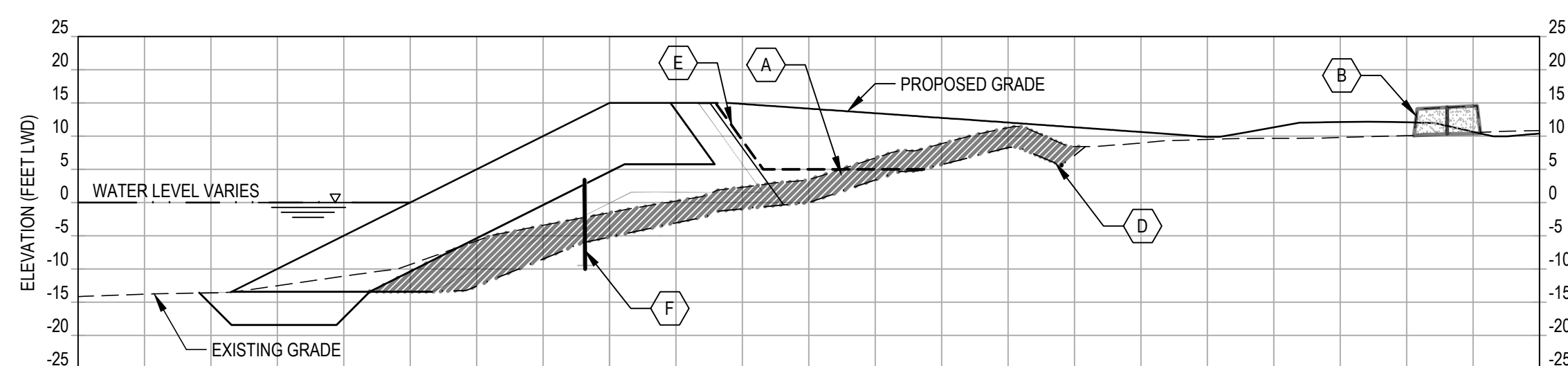
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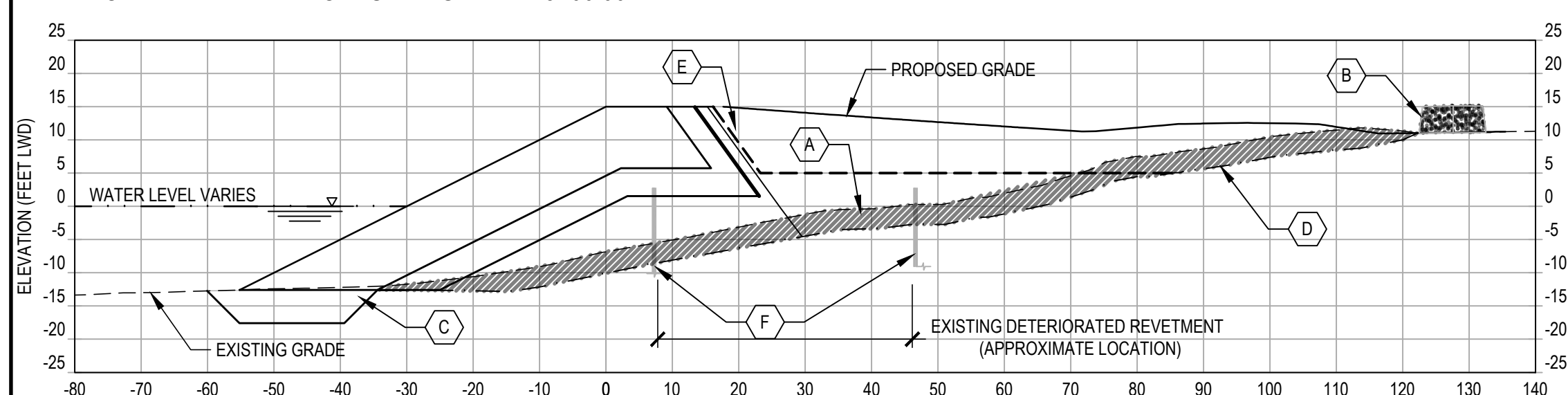
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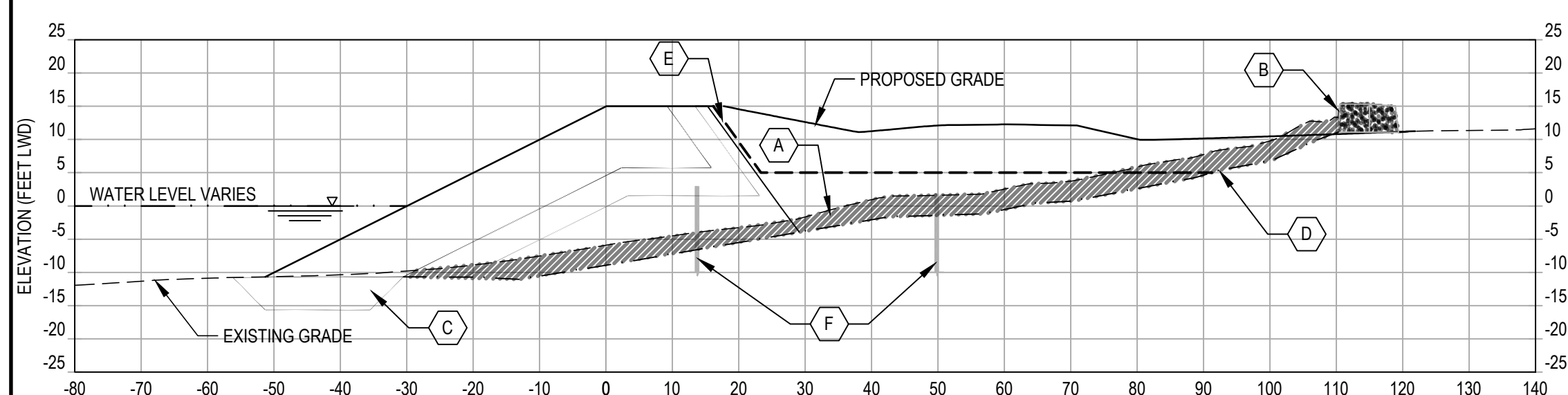
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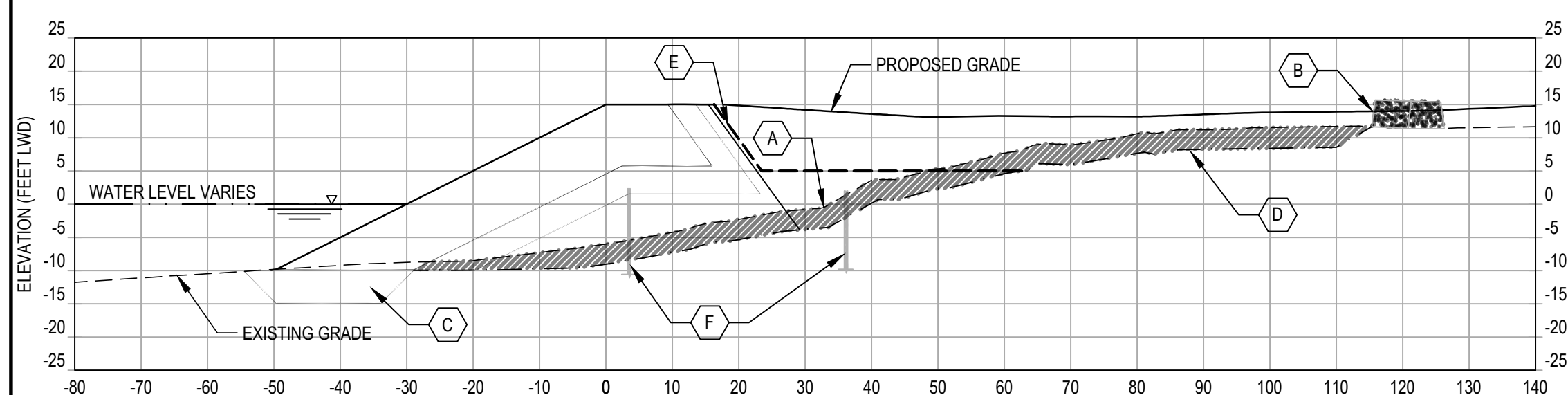
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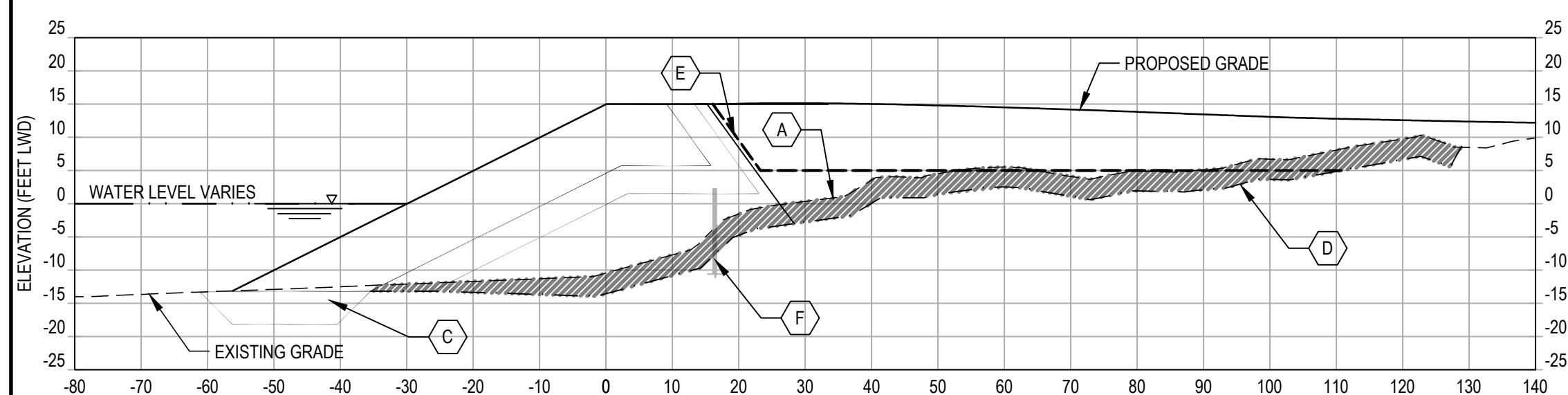
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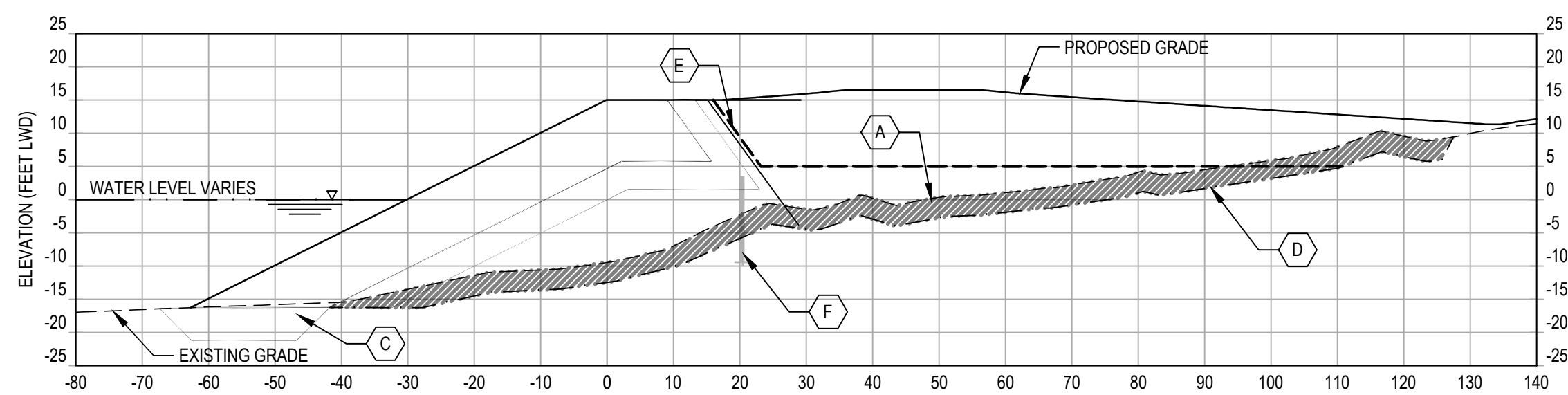
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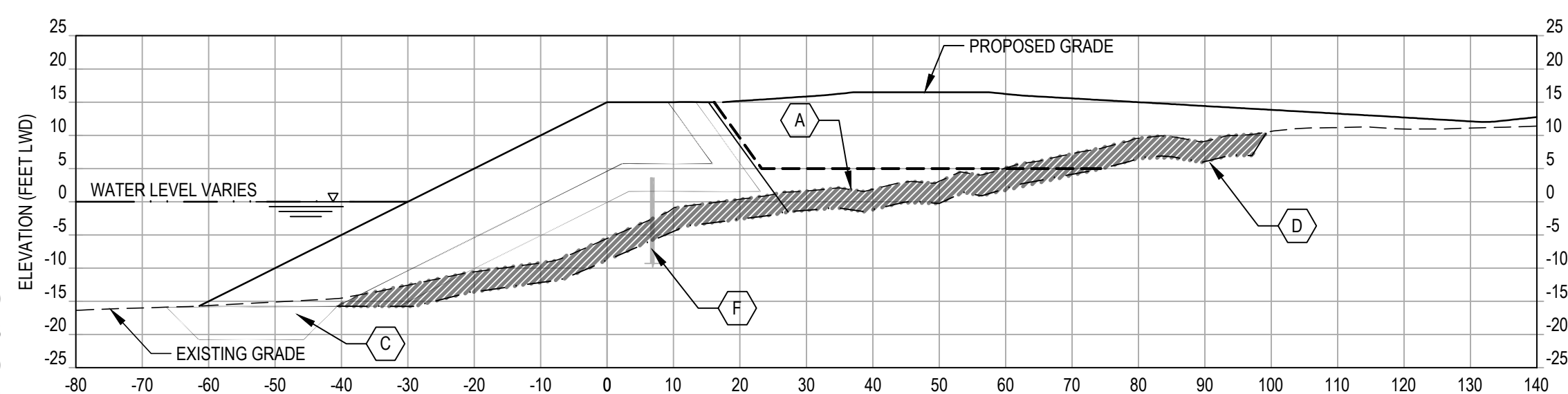
NORTH REVETMENT CREST ALIGNMENT 6+00.00



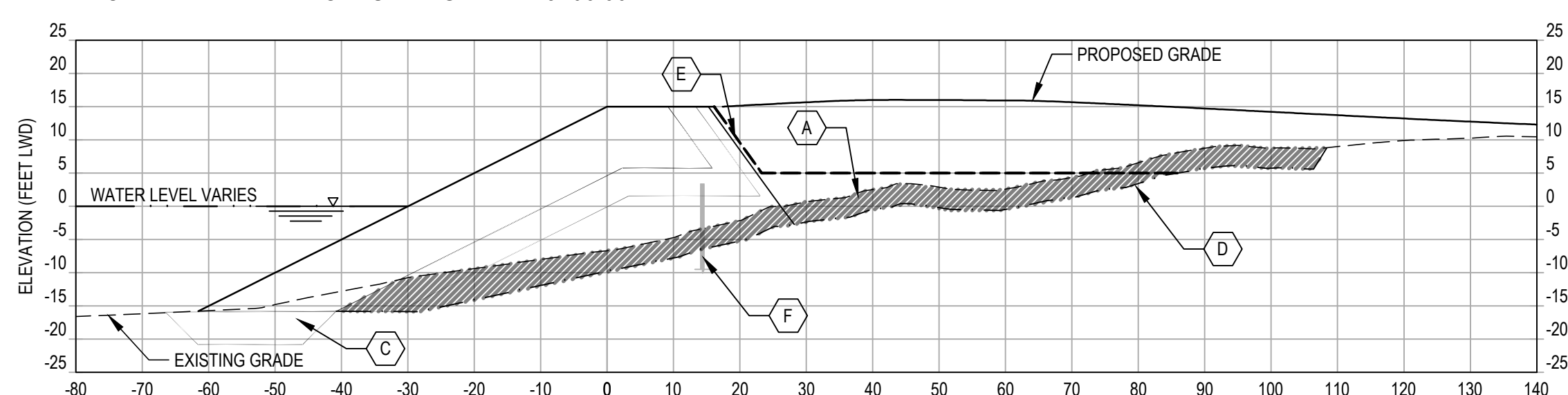
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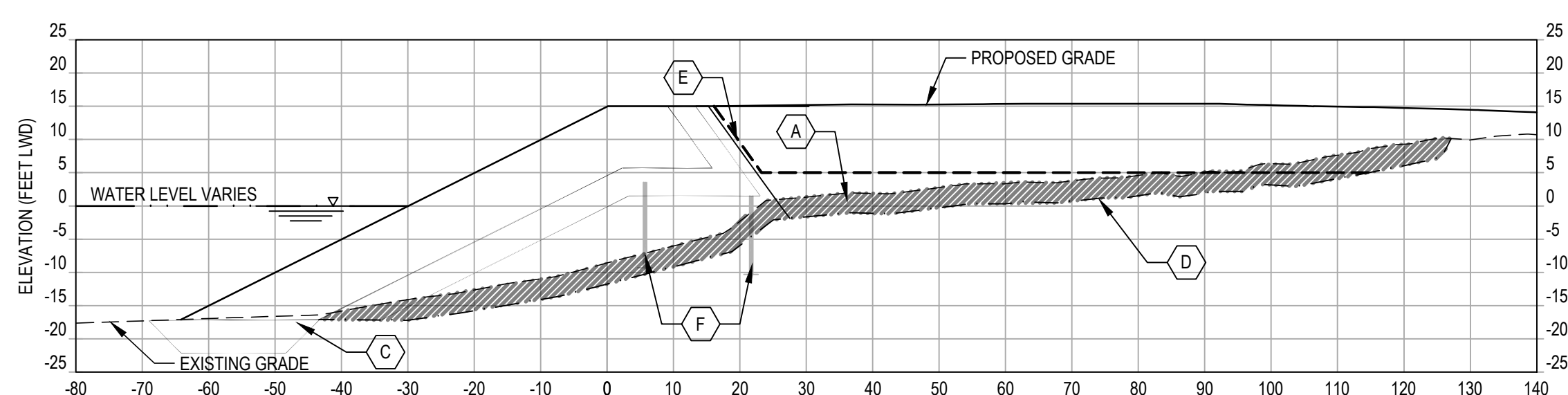
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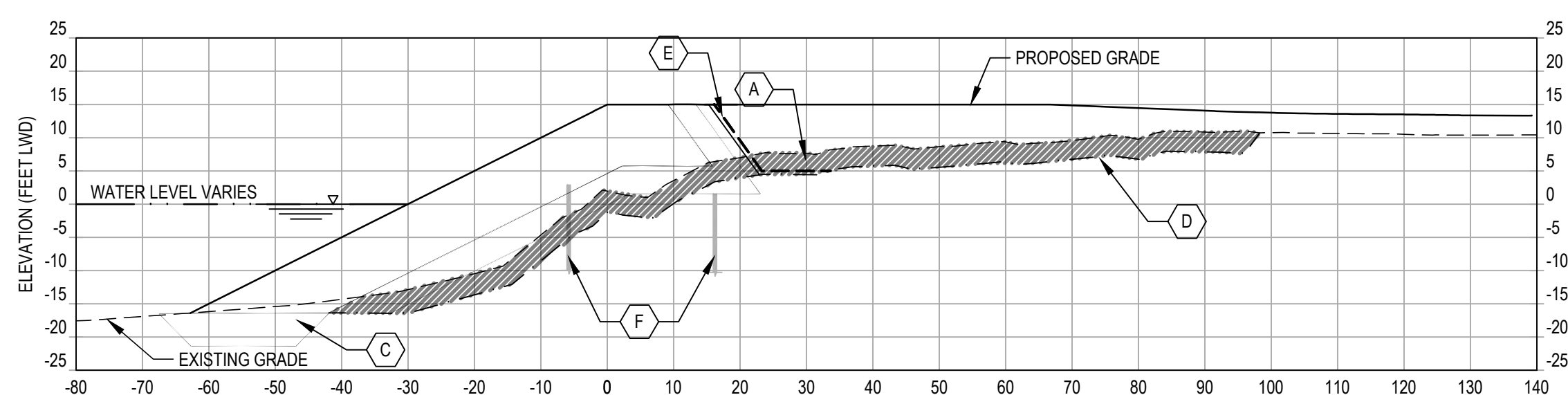
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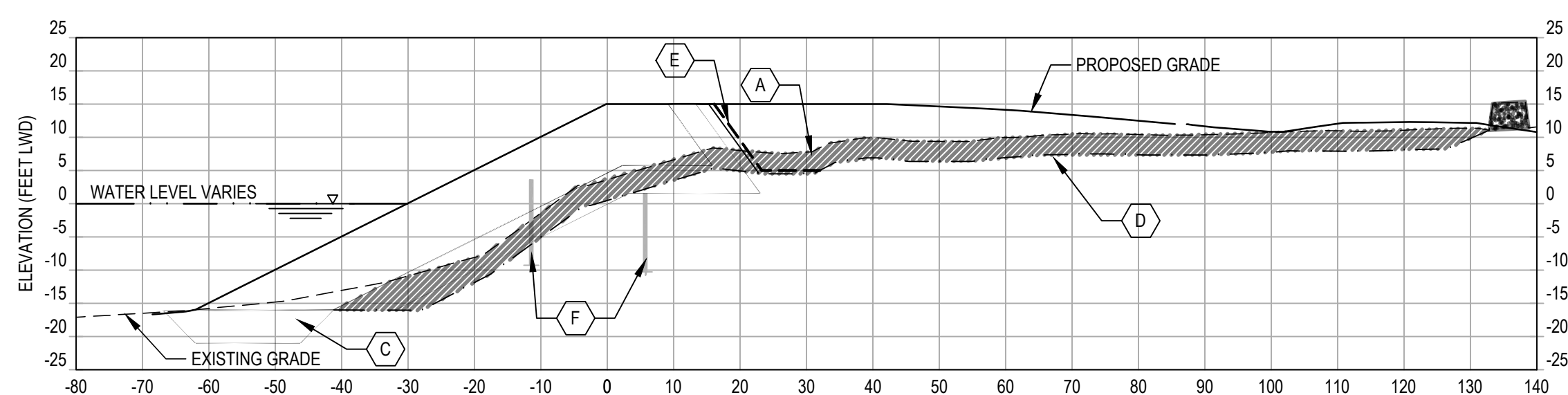
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NORTH REVETMENT CREST ALIGNMENT 11+00.00



NORTH REVETMENT CREST ALIGNMENT 12+00.00



SHEET NOTES

- REFER TO TYPICAL CROSS SECTION SHEETS FOR DETAILS ON PROPOSED CONSTRUCTION.

KEYED NOTES

- (A) SALVAGE AND STOCKPILE EXISTING LARGE, INTACT, LIMESTONE BLOCKS FOR REUSE ON SITE.
- (B) EXISTING TRAPBAG TO BE REMOVED. CLEAN SAND/GRAVEL FILL TO BE SALVAGED AND STOCKPILED ON SITE FOR REUSE IN DYNAMIC REVETMENT. TRAPBAG FABRIC TO BE DISPOSED OFFSITE.
- (C) EXCAVATE SOFT SOILS FOR REVETMENT TOE TRENCH, SEE SPECIFICATIONS.
- (D) APPROXIMATE DEMOLITION LINE.
- (E) GEOTEXTILE SEPARATION BETWEEN EARTHFILL AND LAKEFILL OR CORE MATERIAL.
- (F) APPROXIMATE LOCATION OF DETERIORATED ORIGINAL REVETMENT PILE. CONTRACTOR TO FIELD LOCATE AND VERIFY.

LEGEND

- PROPOSED TOP OF GRADE
- - - EXISTING TOP OF GRADE
- - - APPROXIMATE DEMOLITION LINE
- ▨ APPROXIMATE DEMOLITION AREA



CHICAGO SHORELINE PROTECTION PROJECT
MORGAN SHOAL REVETMENT RECONSTRUCTION
45TH STREET TO 51ST STREET
CHICAGO, IL 60653

CHICAGO PARK DISTRICT
CITY OF CHICAGO, MAYOR LORI E. LIGHTFOOT

Architect of Record:
SMITHGROUP
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PHONE: 312.641.0770
WEB: www.smithgroup.com

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Chicago, IL

Civil Engineers of Record:
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Chicago, IL

Architects:
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Chicago, IL

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Lombard, IL

Ecological Consultant:
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Chicago, IL

Surveying Consultant:
American Surveying & Engineering
Chicago, IL

MEP Consultant:
CCJM Engineers
Chicago, IL

Structural Consultant:
Thornton Tomasetti
Chicago, IL

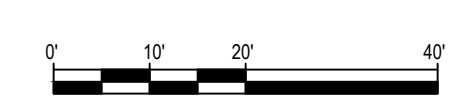
Issuance		
Mark	Description	Date
XX	Initial SHPO Submittal	03/2024

PBC Project Name: Chicago Shoreline Protection Project
PBC Contract No.: 22703
Project No.: 13576
Title:

CROSS SECTIONS

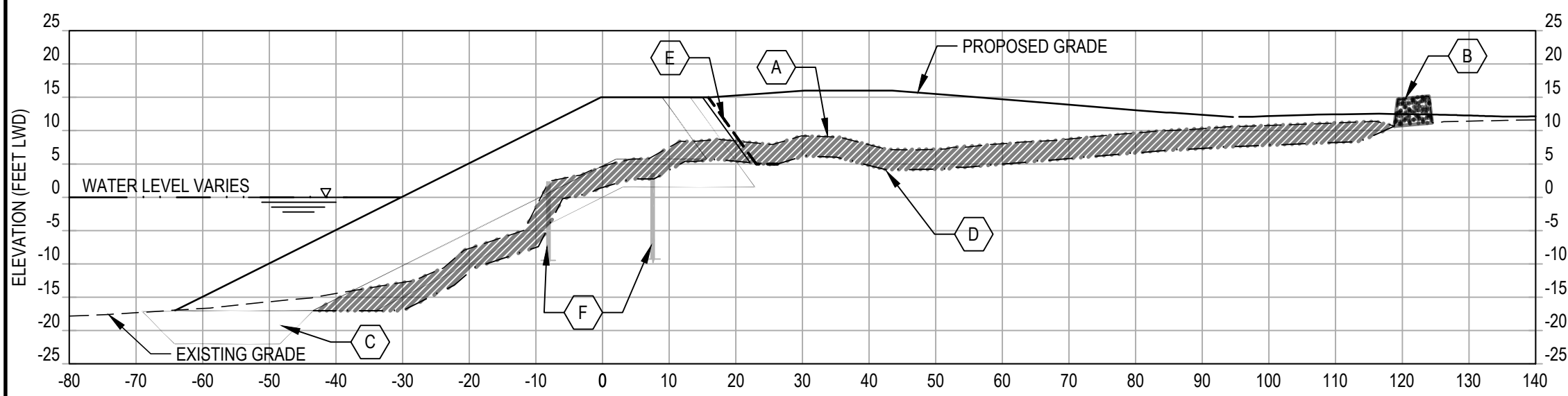
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NOT FOR CONSTRUCTION

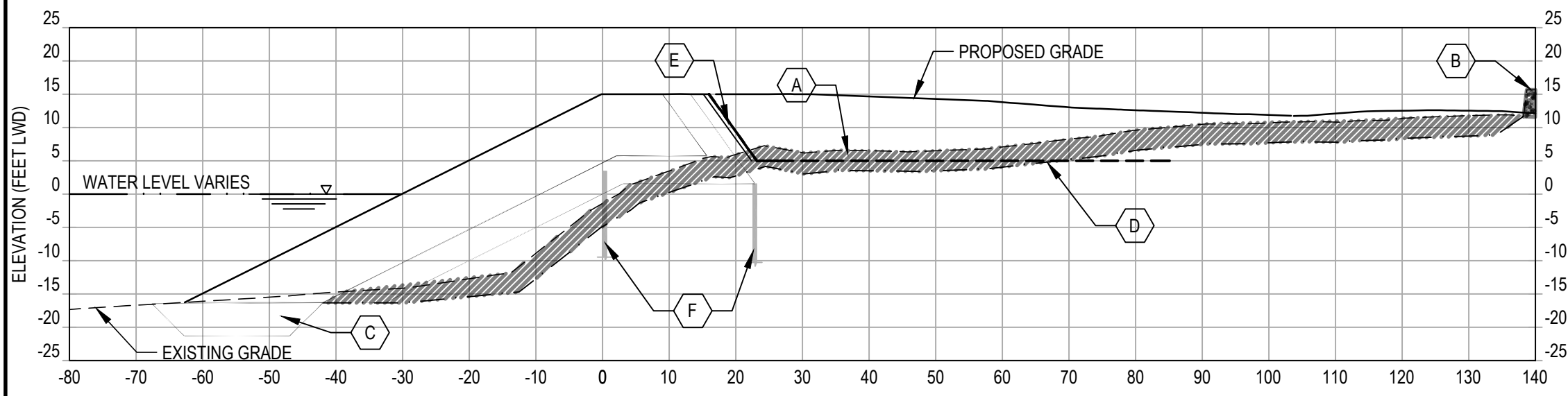


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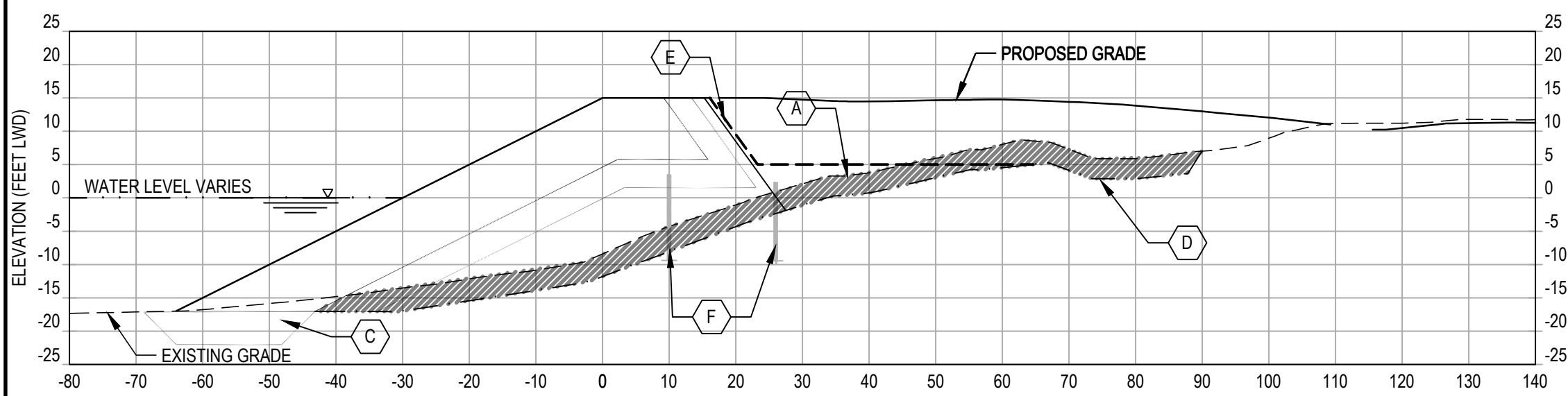
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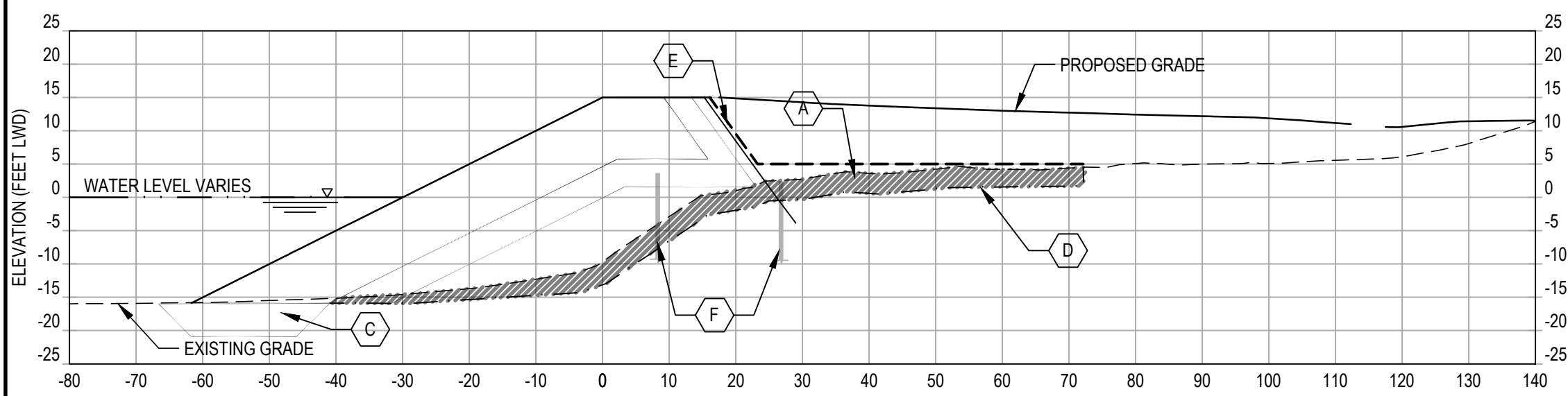
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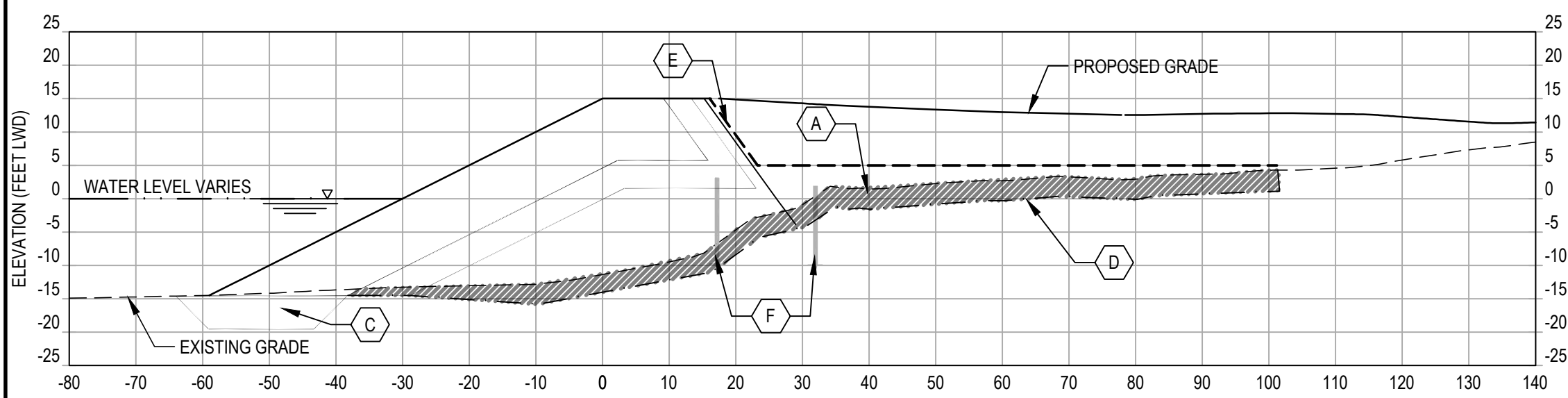
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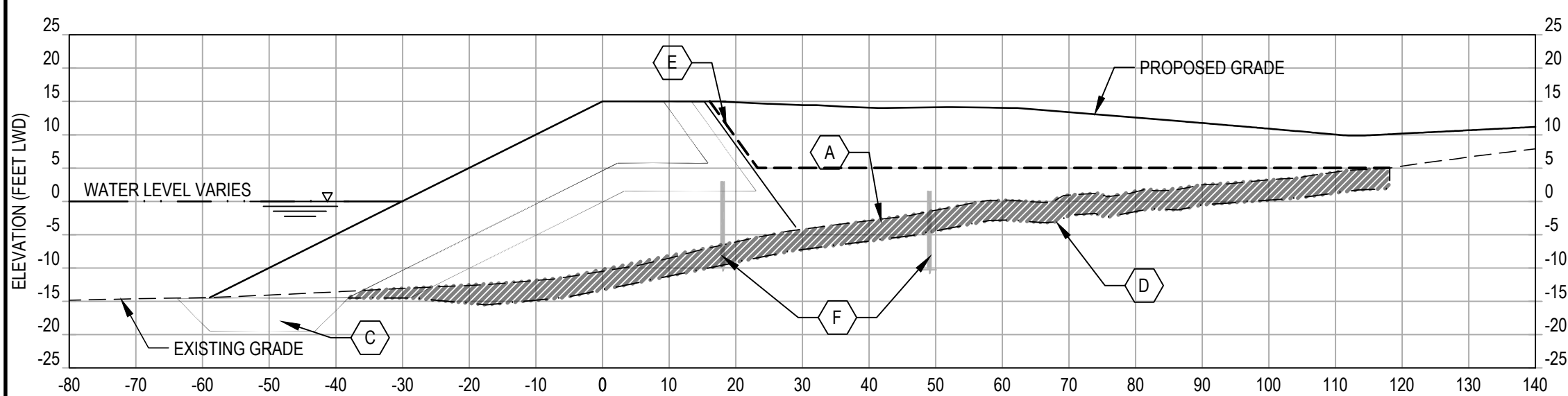
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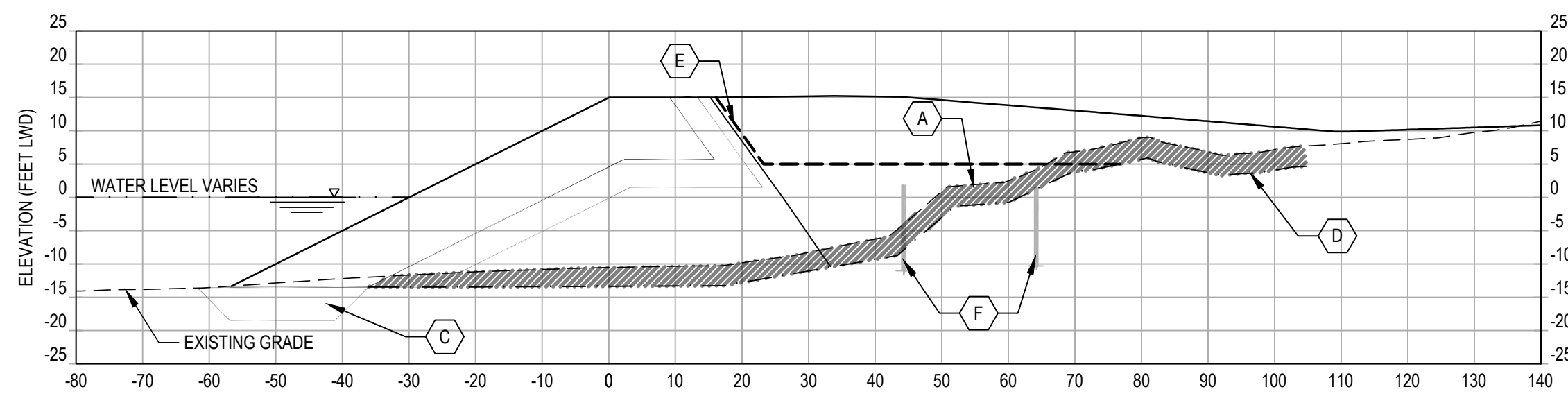
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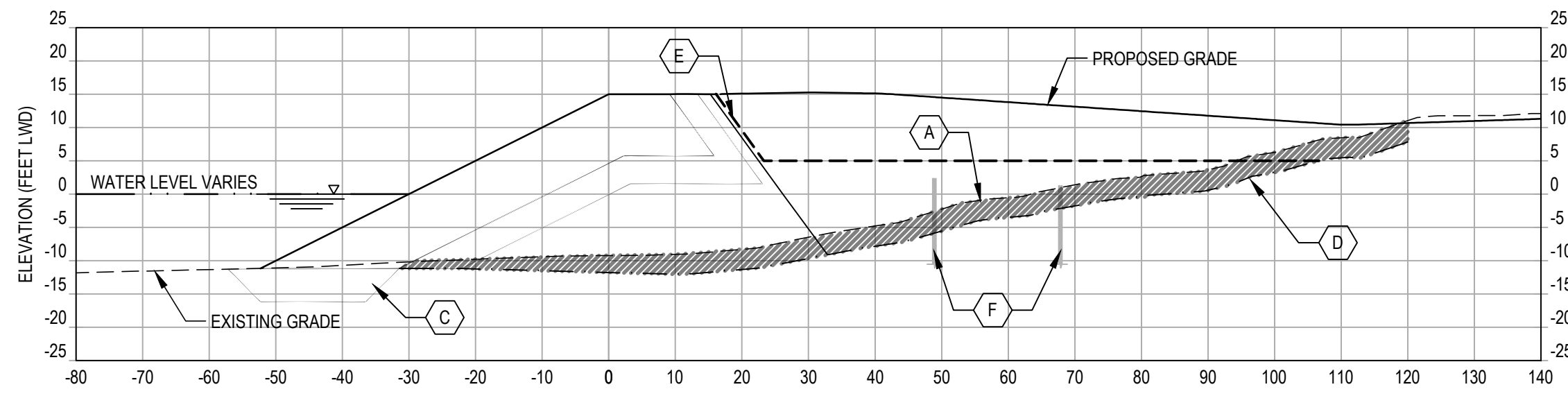
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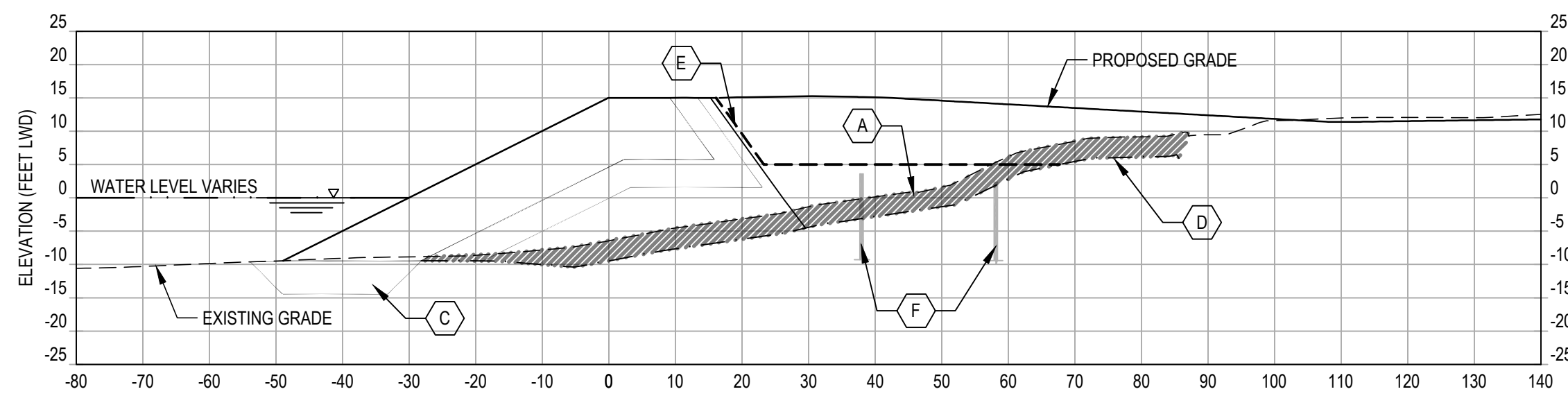
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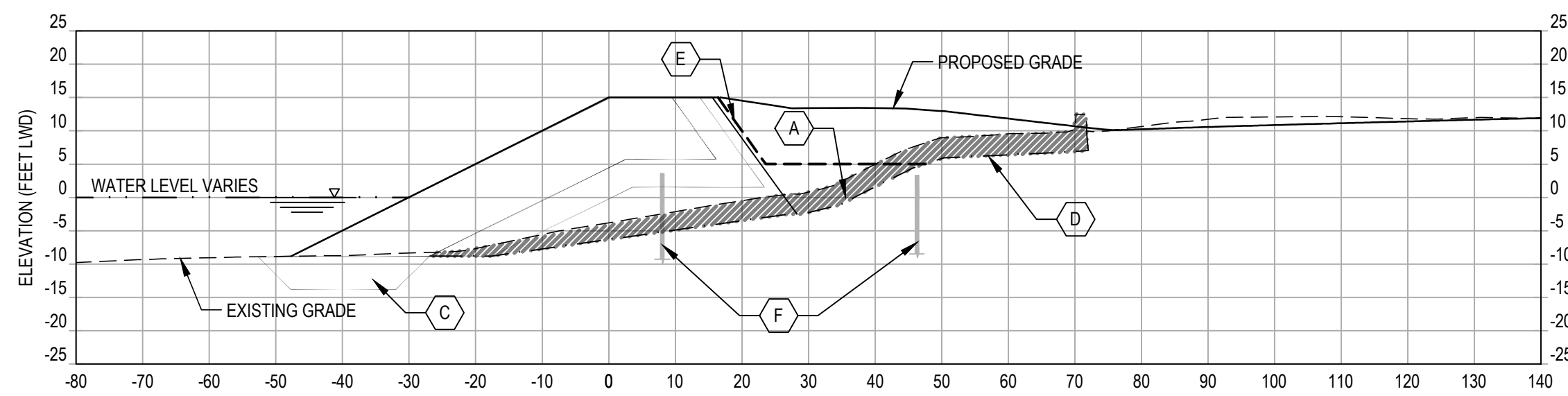
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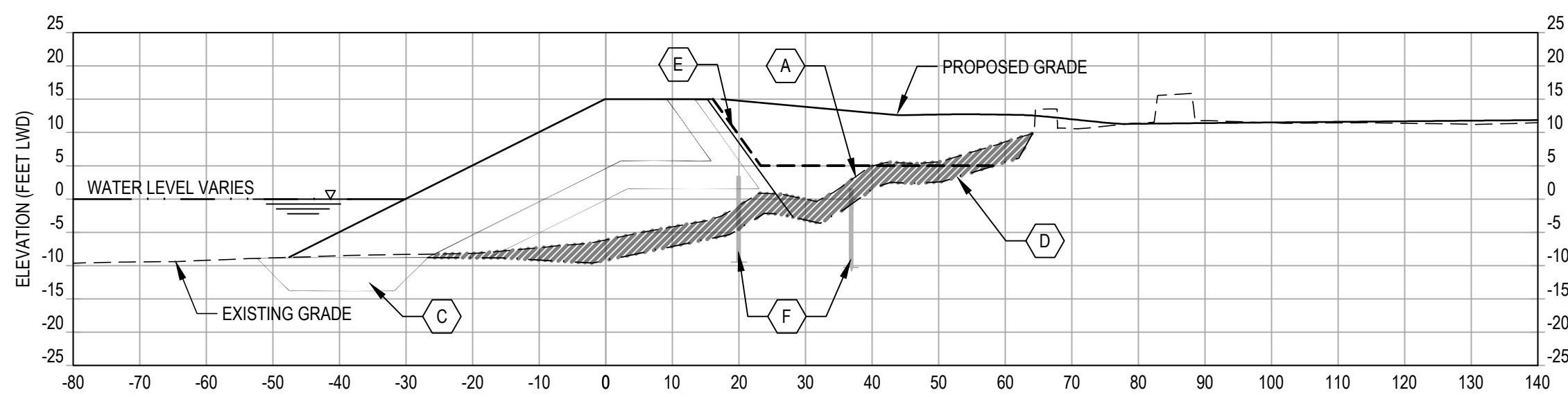
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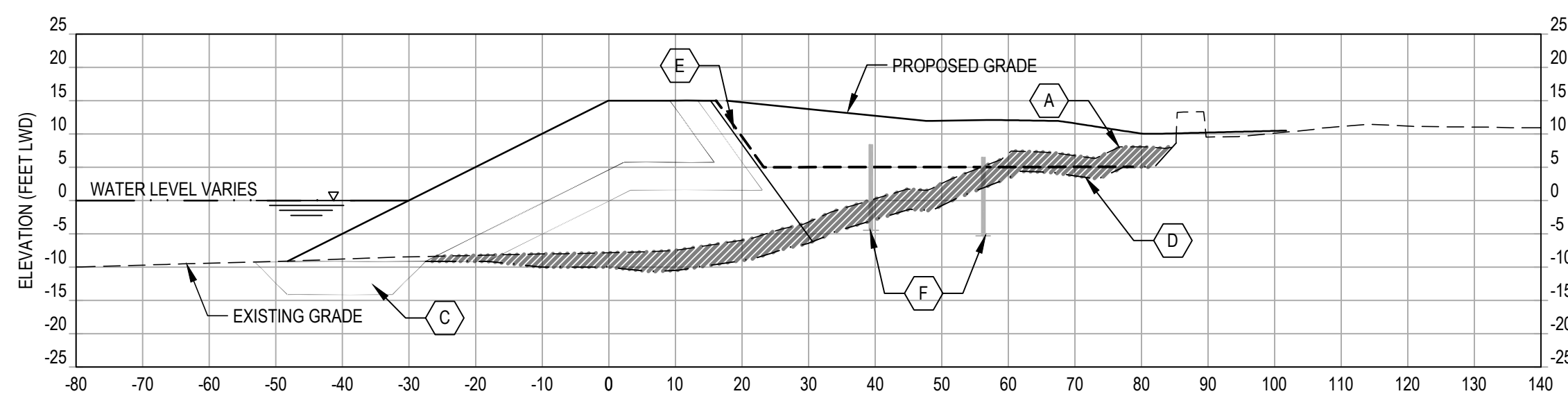
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NORTH REVETMENT CREST ALIGNMENT 23+00.00



NORTH REVETMENT CREST ALIGNMENT 24+00.00



SHEET NOTES

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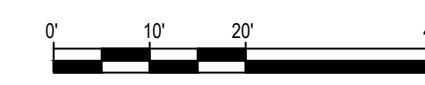
Thornton Tomasetti
Chicago, IL
Structural Consultant

Mark	Description	Date
XX	Initial SHPO Submittal	03/2024

PBC Project Name: Chicago Shoreline Protection Project
PBC Contact No.: 22703
Project No.: 13876
Title:

CROSS SECTIONS

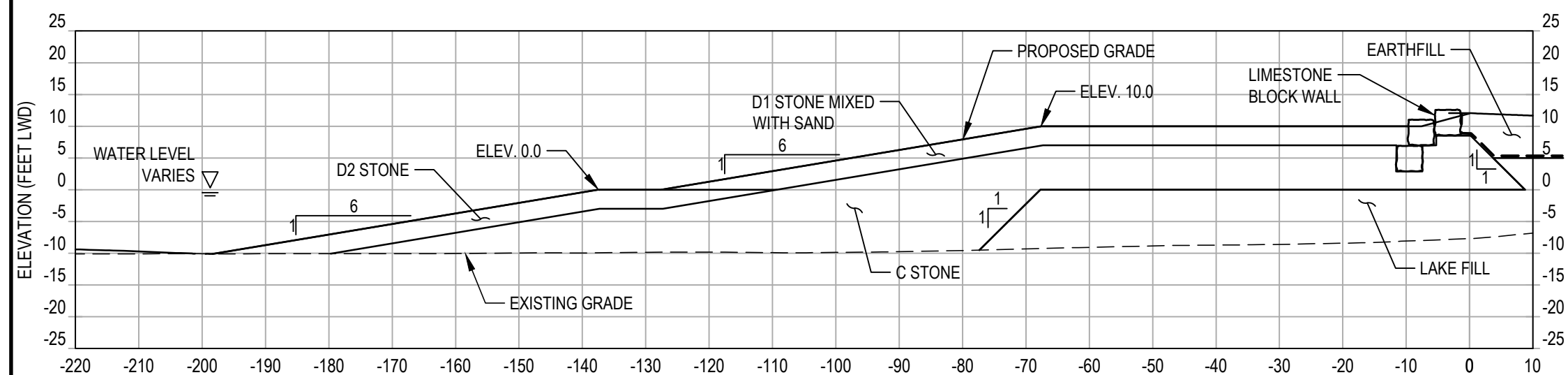
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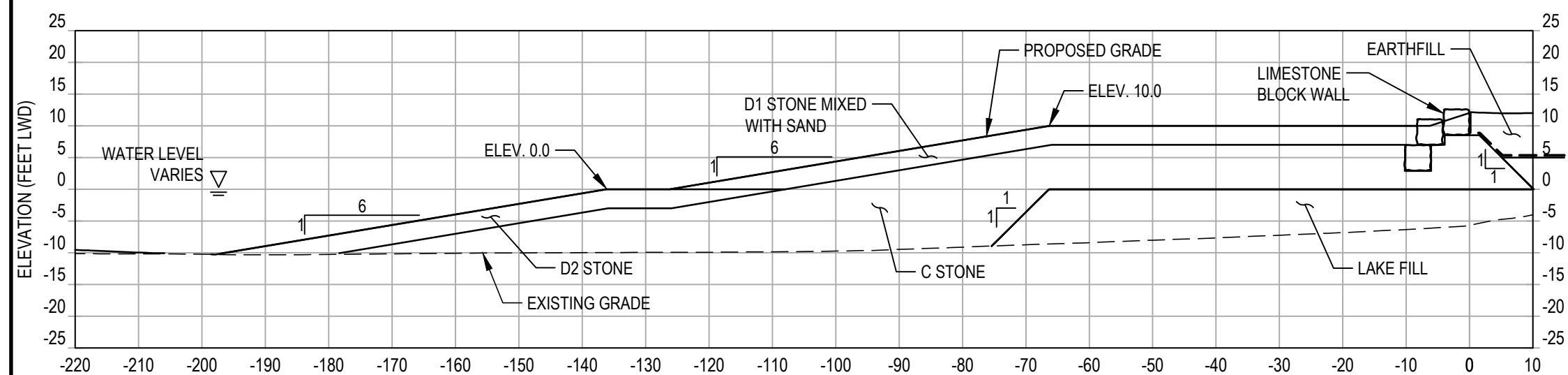
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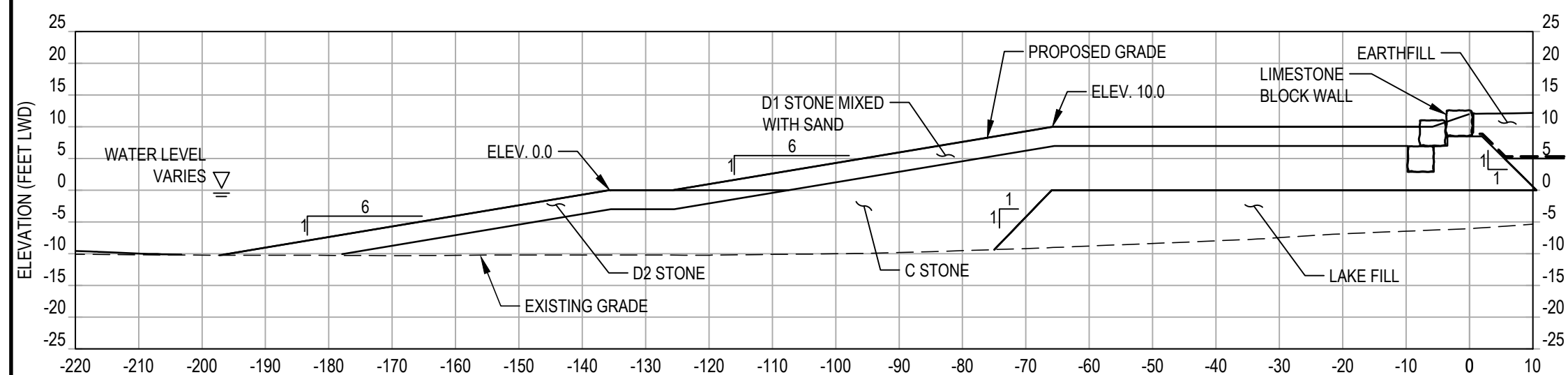
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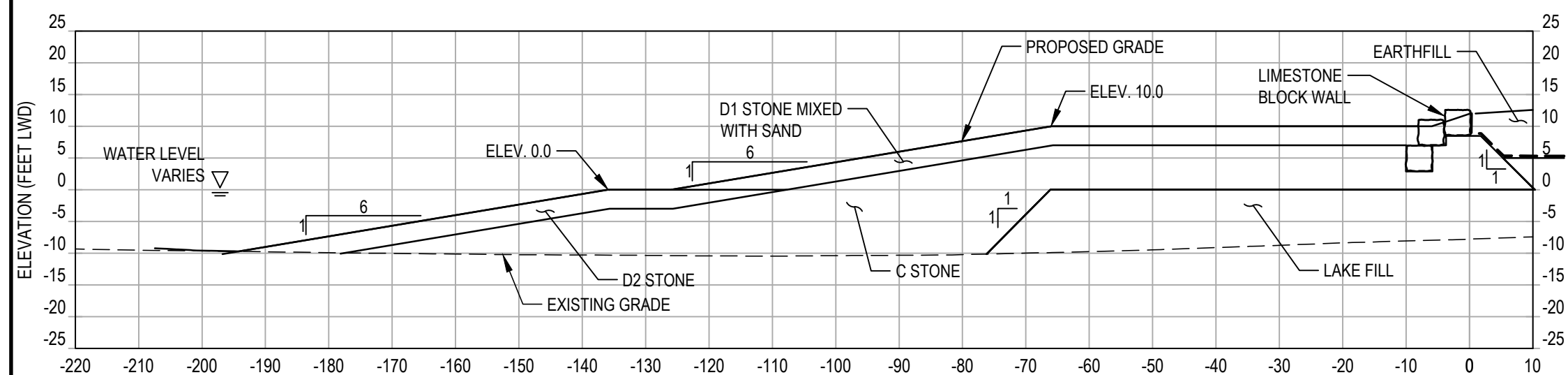
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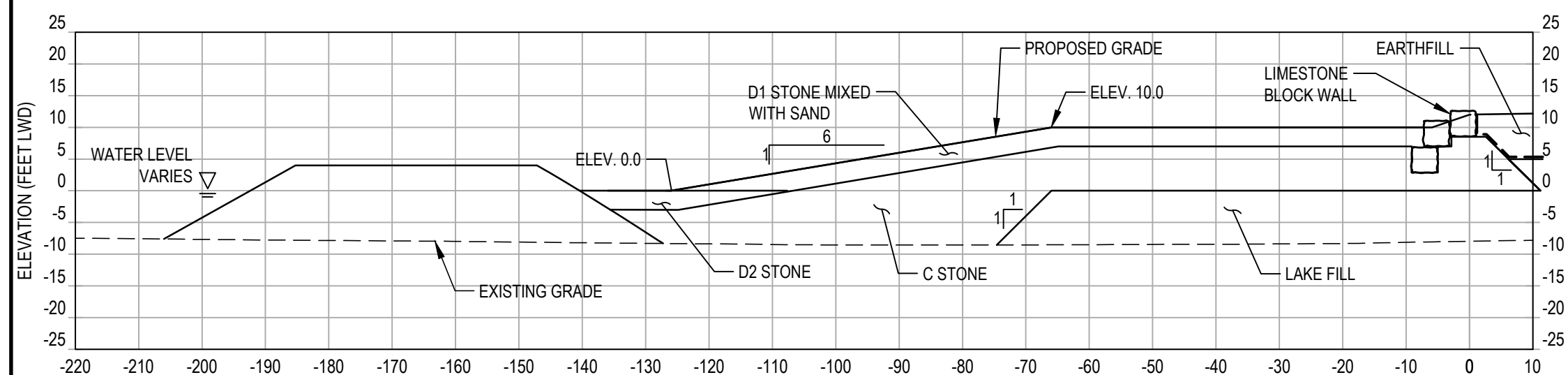
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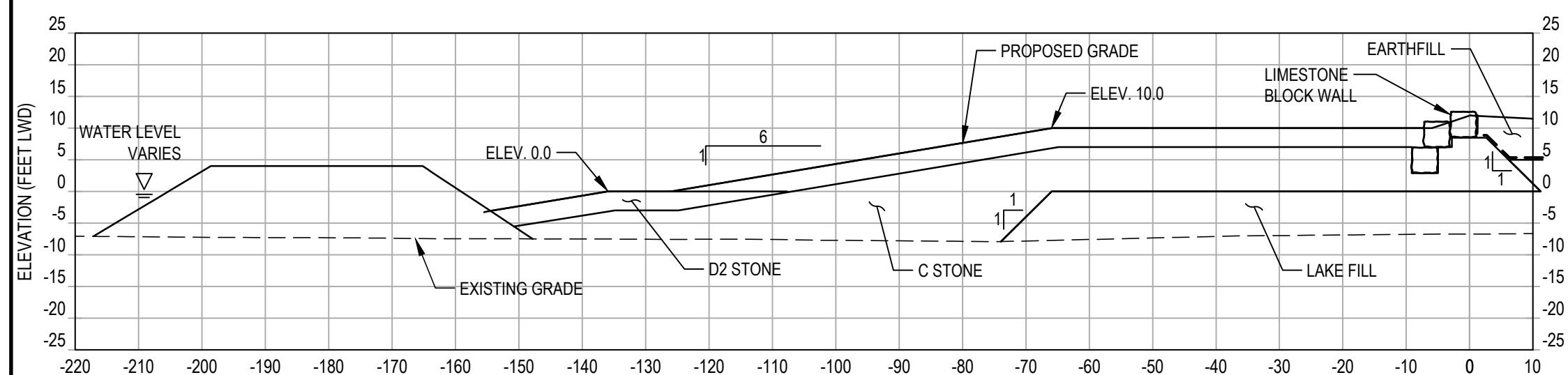
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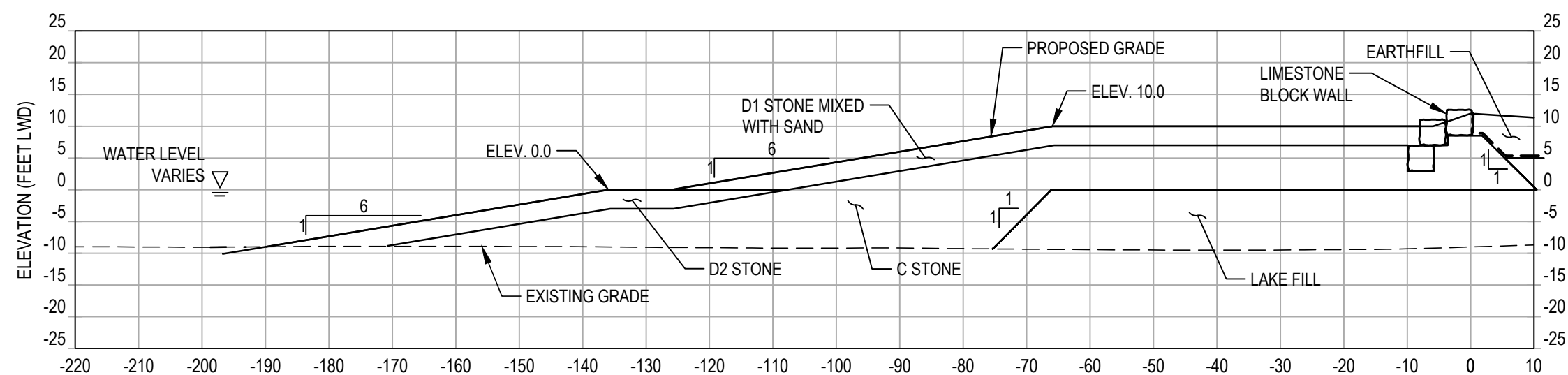
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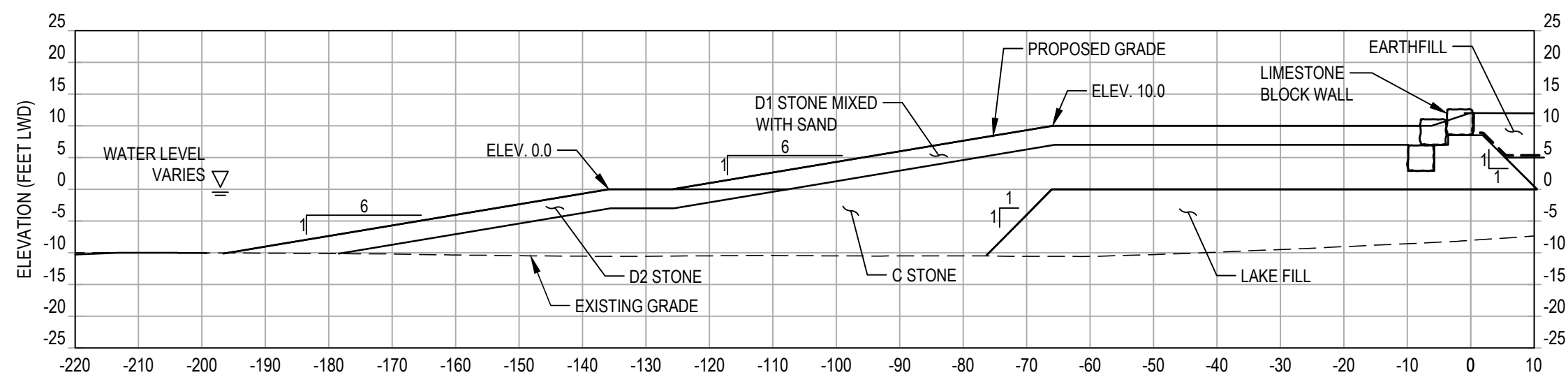
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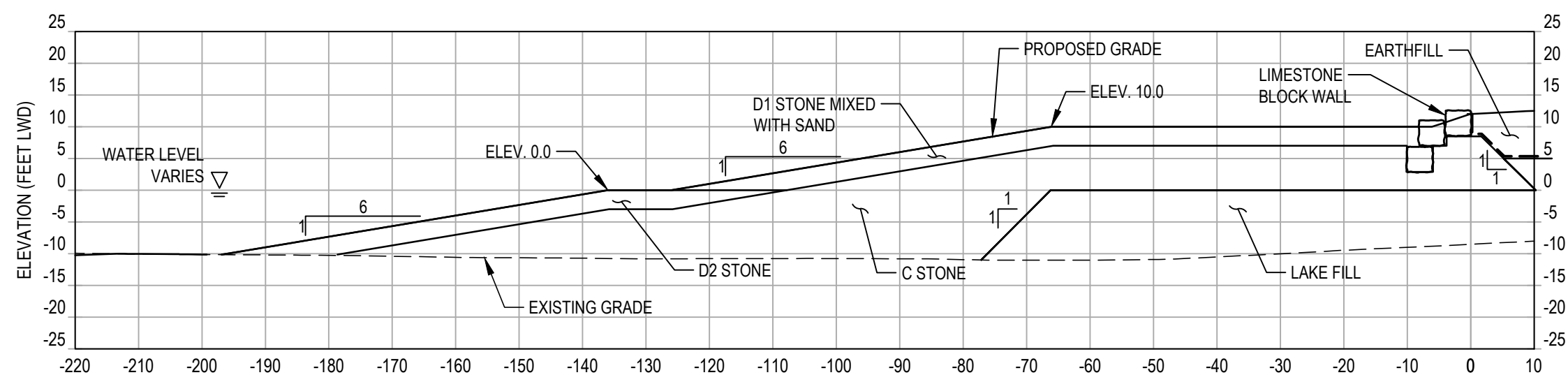
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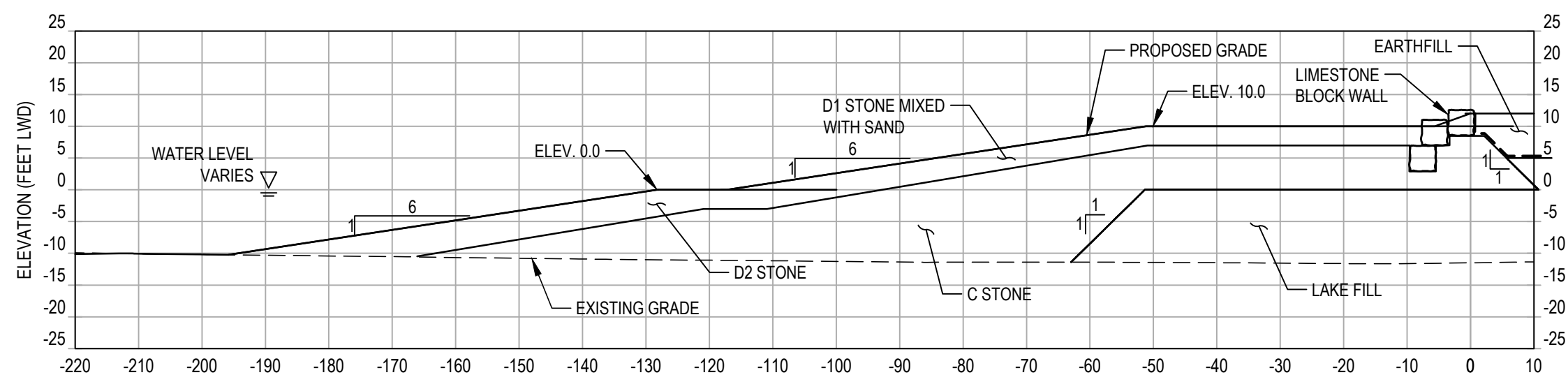
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DYNAMIC REVETMENT 9+00.00



DYNAMIC REVETMENT 10+00.00



SHEET NOTES

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NOT FOR CONSTRUCTION

KEYED NOTES

LEGEND

— PROPOSED TOP OF GRADE
 - - - EXISTING TOP OF GRADE



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Architect of Record:
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 Lombard, IL
 Geotechnical Consultant

Living Habitats, LLC
 Chicago, IL
 Ecological Consultant

American Surveying & Engineering
 Chicago, IL
 Surveying Consultant

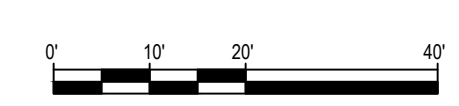
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 Chicago, IL
 MEP Consultant

Thornton Tomasetti
 Chicago, IL
 Structural Consultant

Mark	Description	Date
XX	Initial SHPO Submittal	03/2024

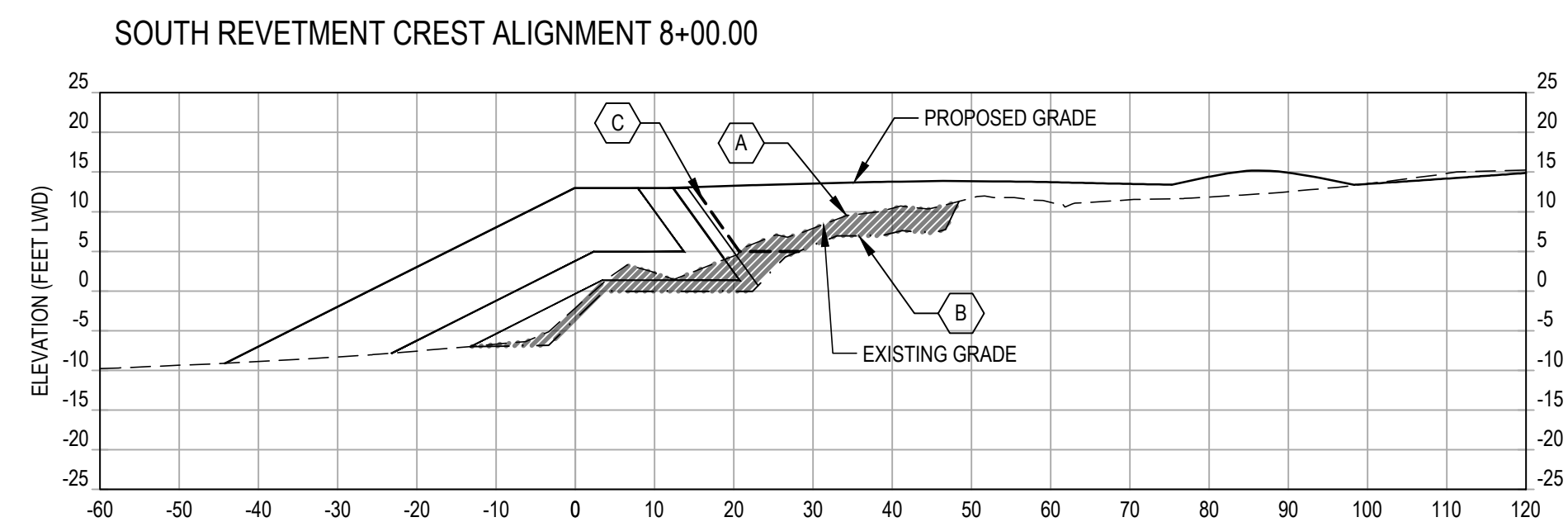
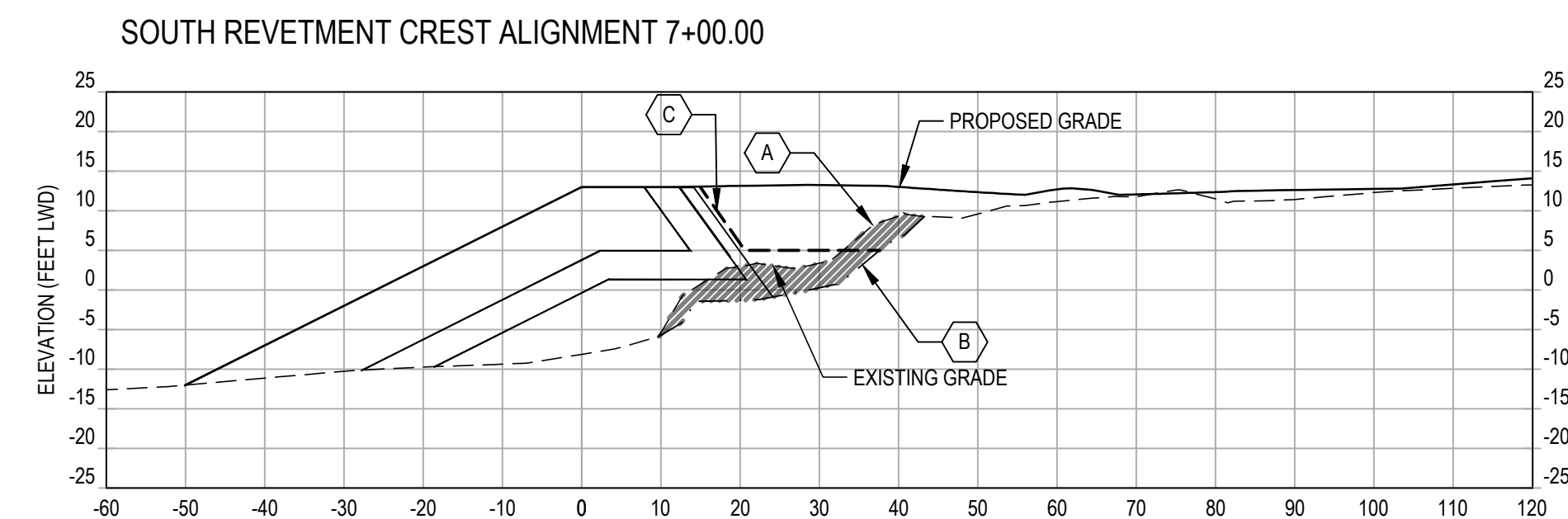
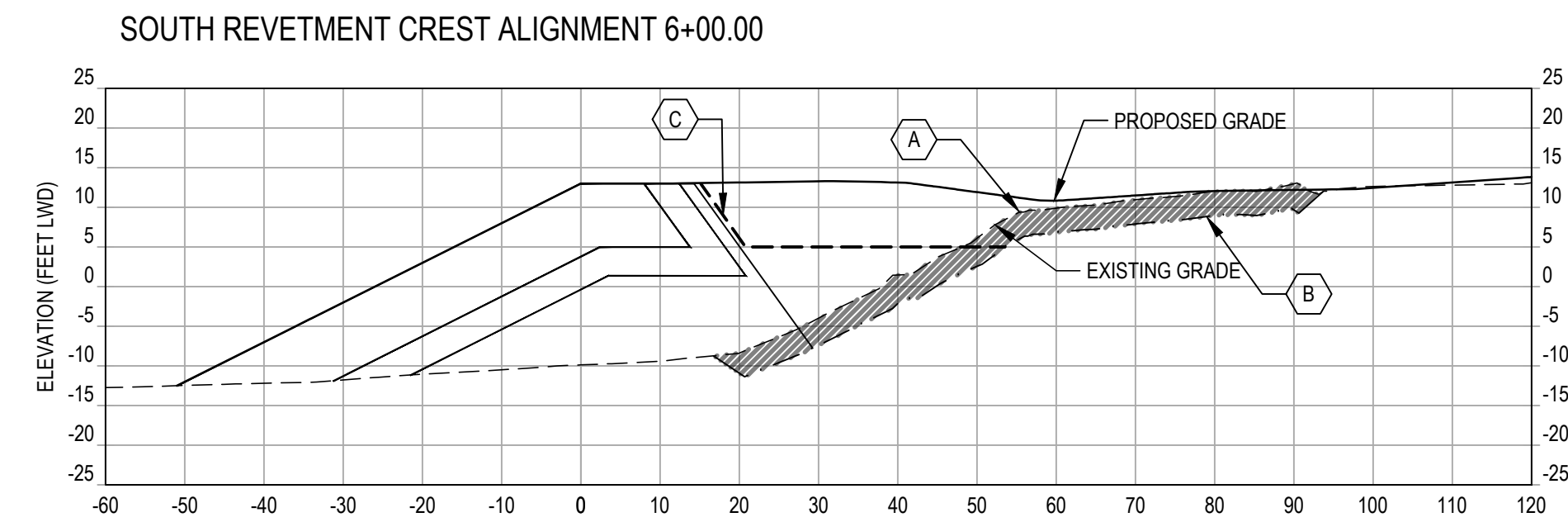
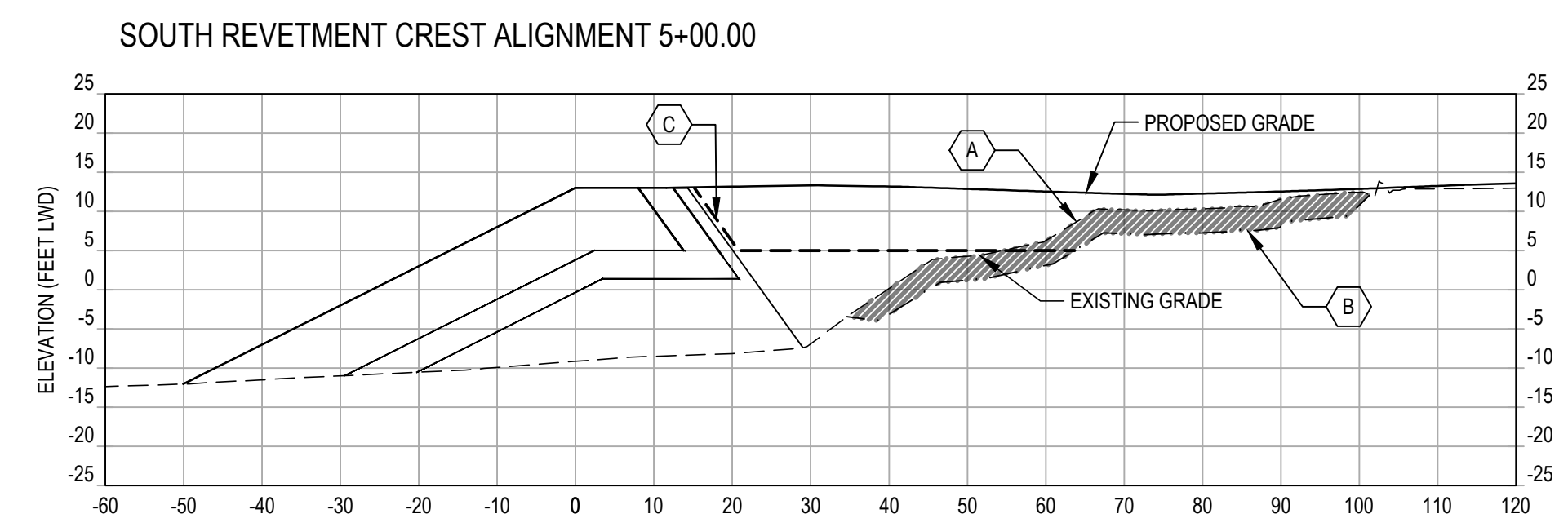
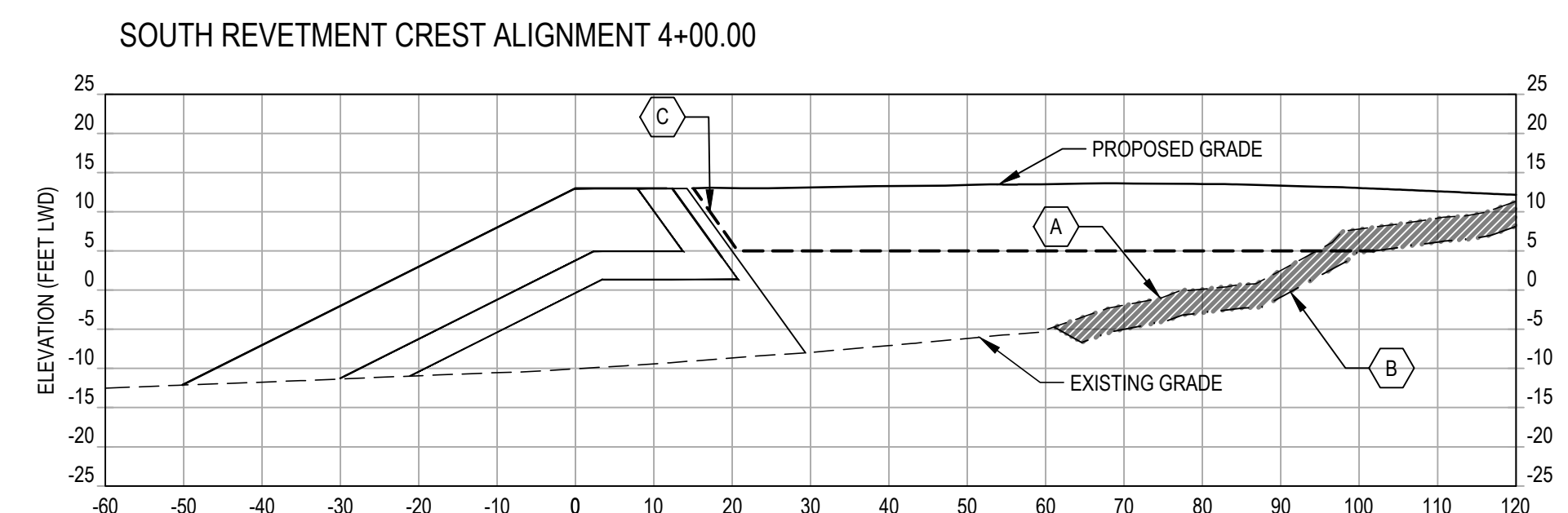
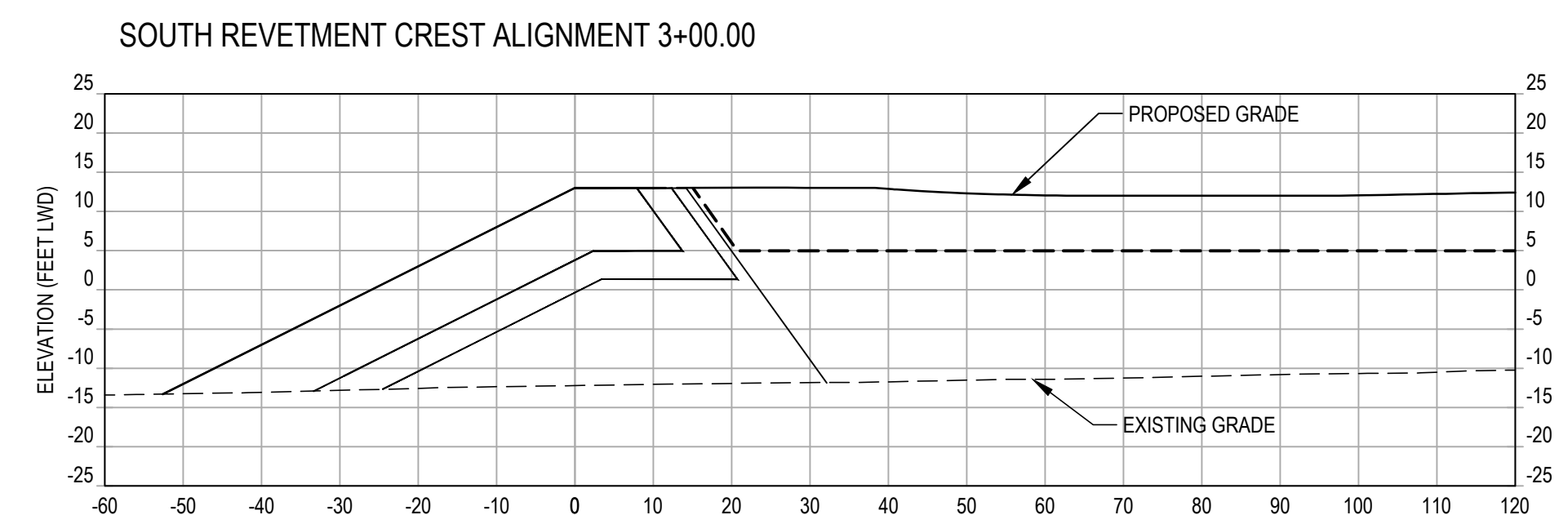
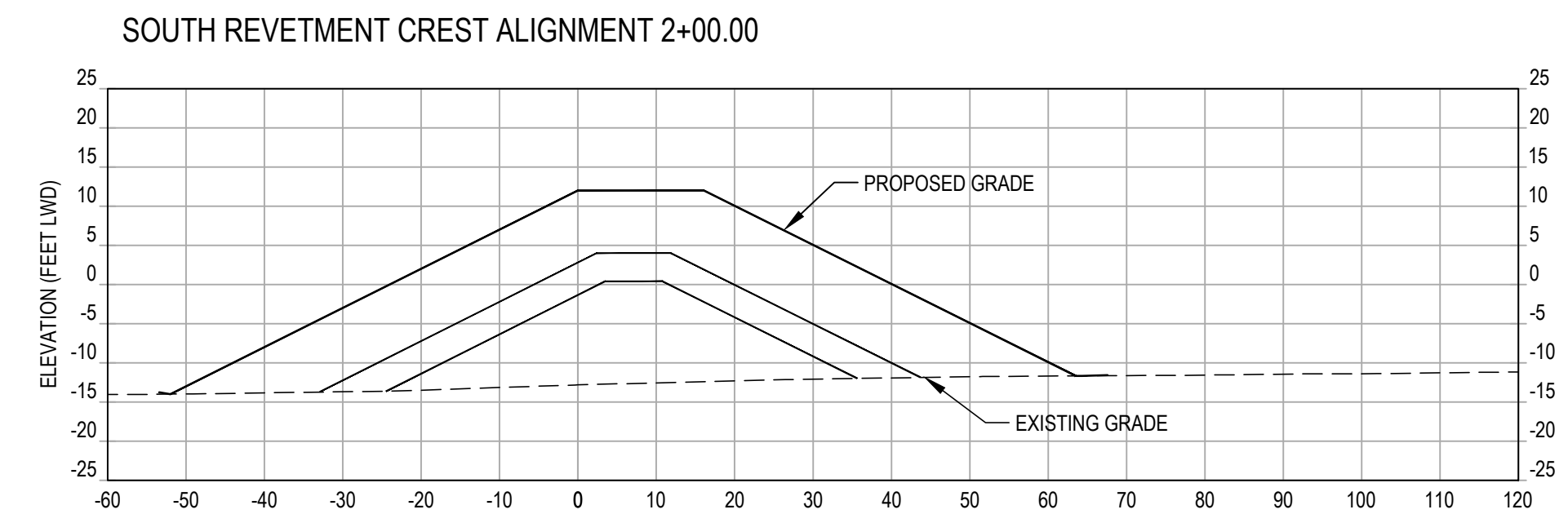
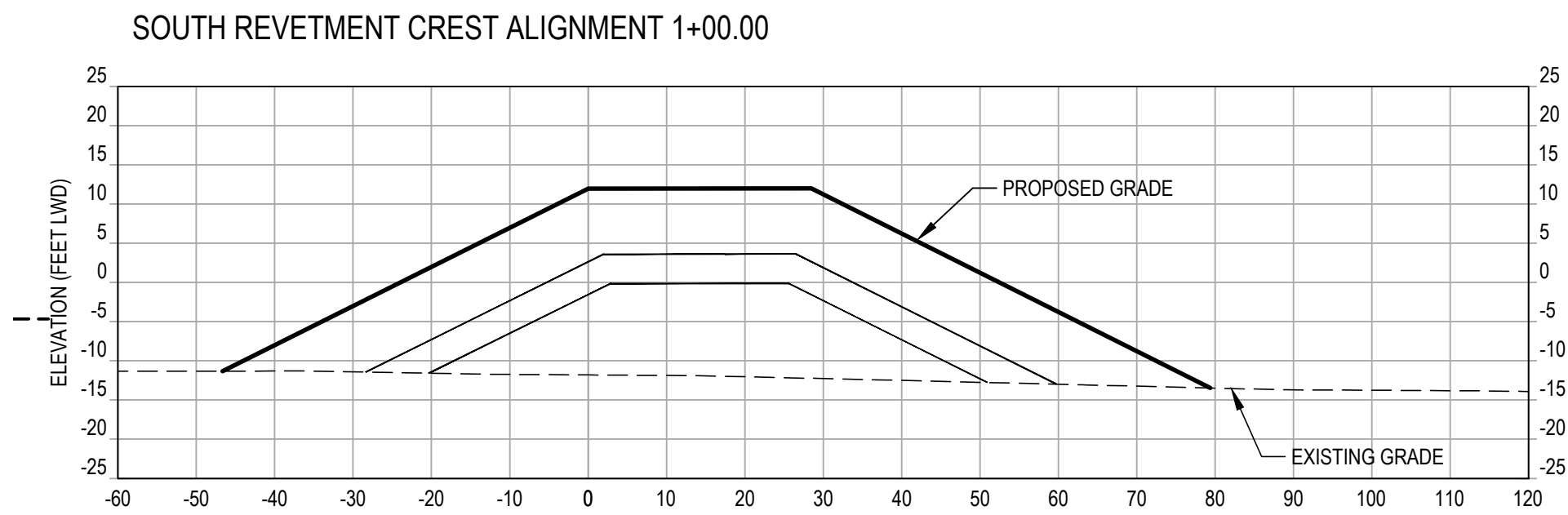
PBC Project Name: Chicago Shoreline Protection Project
 PBC Contract No.: 22703
 Project No.: 13676
 Title

CROSS SECTIONS



Sheet **C-314**

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SHEET NOTES

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 Lombard, IL

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 Chicago, IL

Surveying Consultant:
American Surveying & Engineering
 Chicago, IL

MEP Consultant:
CCJM Engineers
 Chicago, IL

Structural Consultant:
Thornton Tomasetti
 Chicago, IL

Issuance		
Mark	Description	Date
XX	Initial SHPO Submittal	03/2024

PBC Project Name: Chicago Shoreline Protection Project
 PBC Contract No.: 22703
 Project No.: 13576
 Title:

CROSS SECTIONS



NOT FOR CONSTRUCTION



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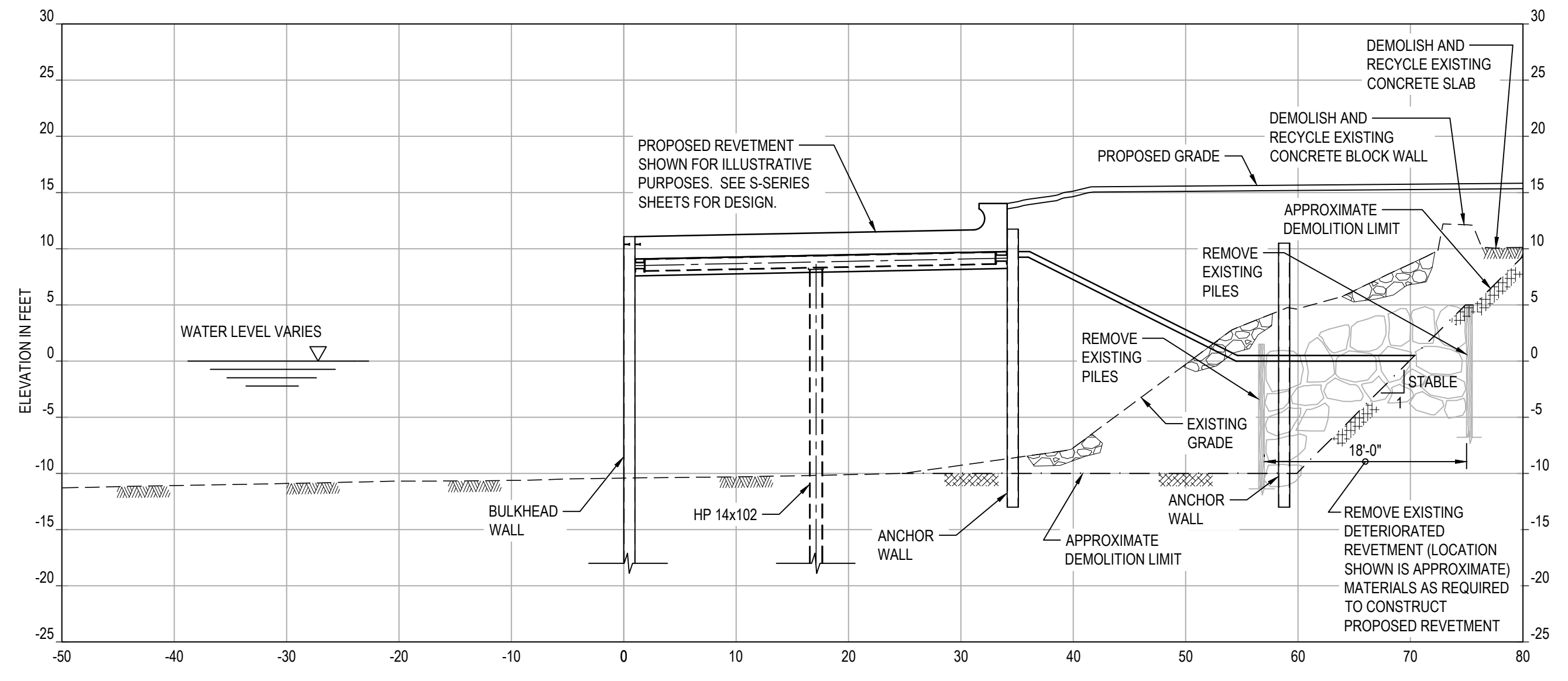
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 Chicago, IL
Surveying Consultant
CCJM Engineers
 Chicago, IL
MEP Consultant
Thornton Tomasetti
 Chicago, IL
Structural Consultant

Mark	Description	Date
XX	Initial SHPO Submittal	03/2024

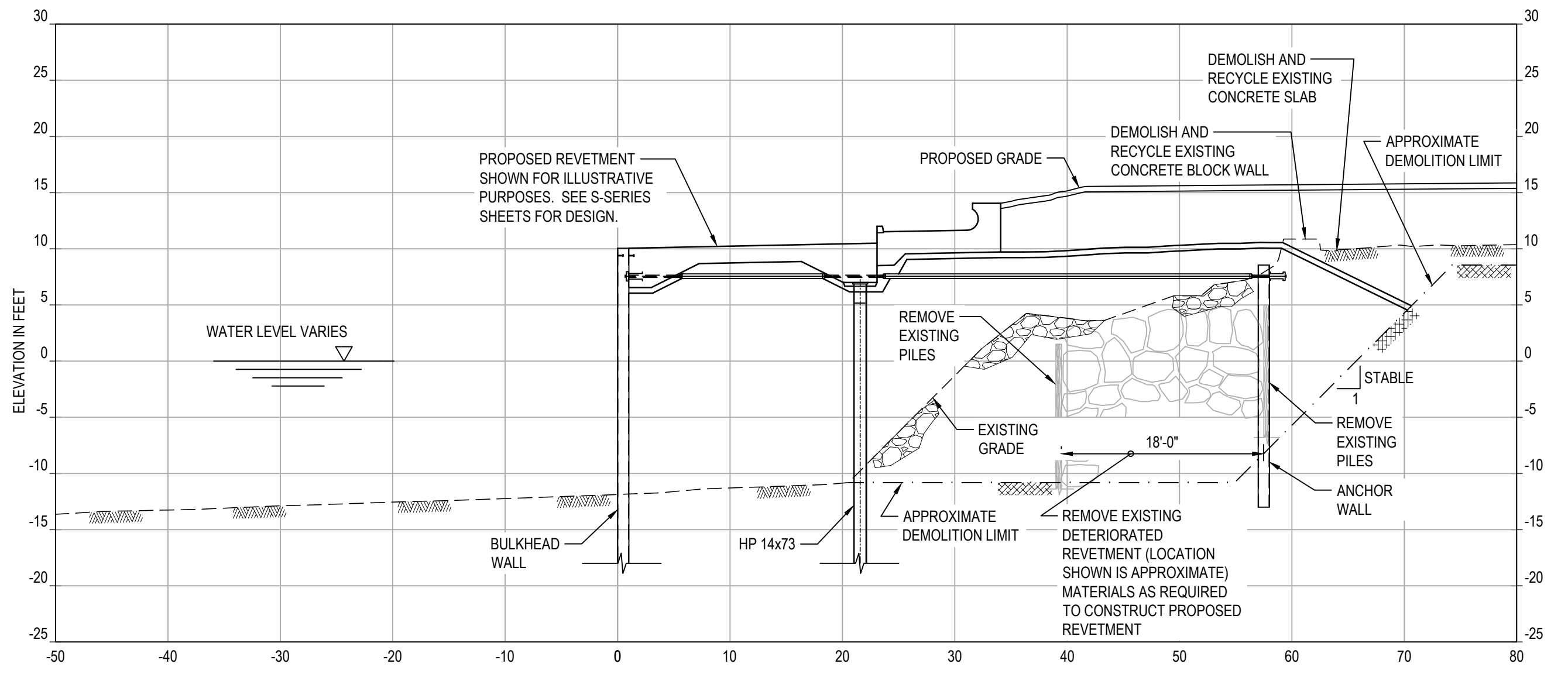
PBC Project Name: Chicago Shoreline Protection Project
 PBC Contract No.: 22703
 Project No.: 13576

Title: **DEMOLITION FOR UNIVERSAL ACCESS SECTIONS**

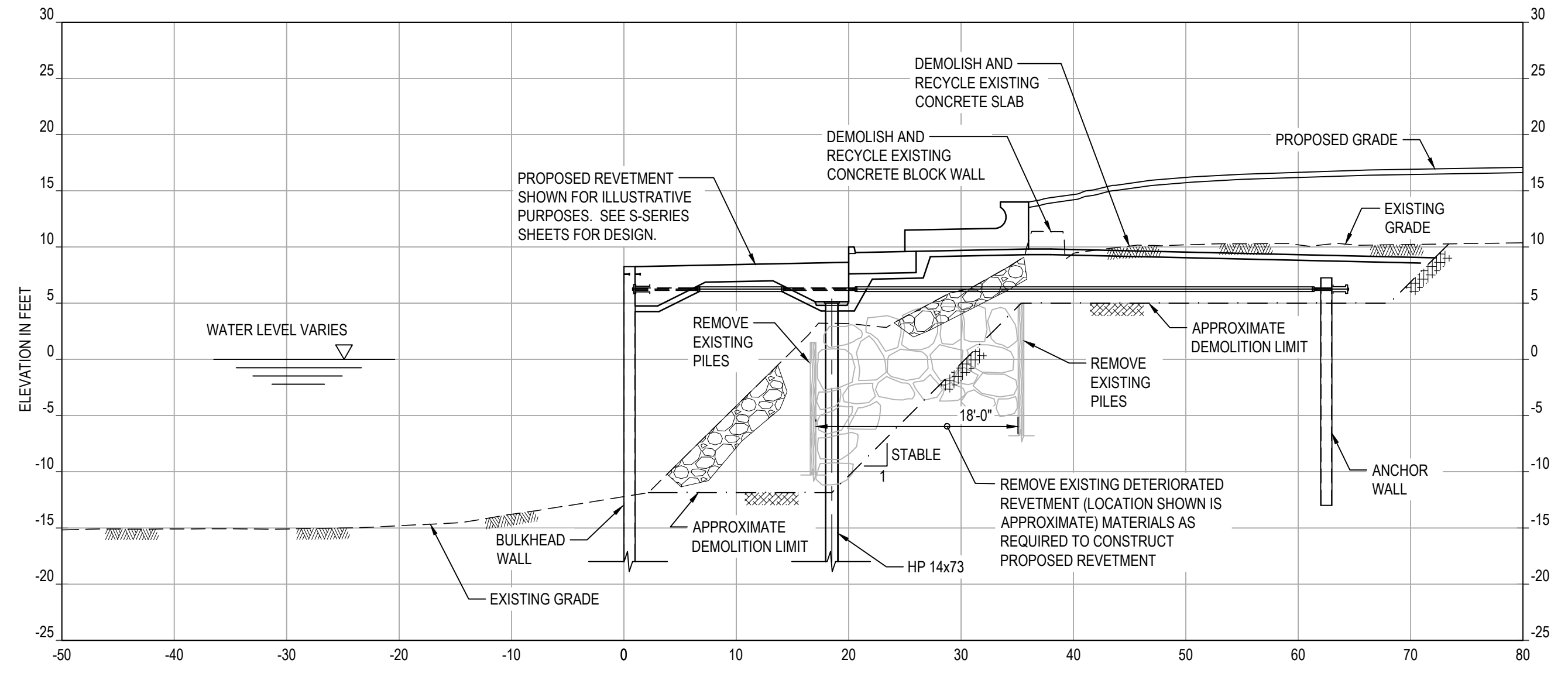
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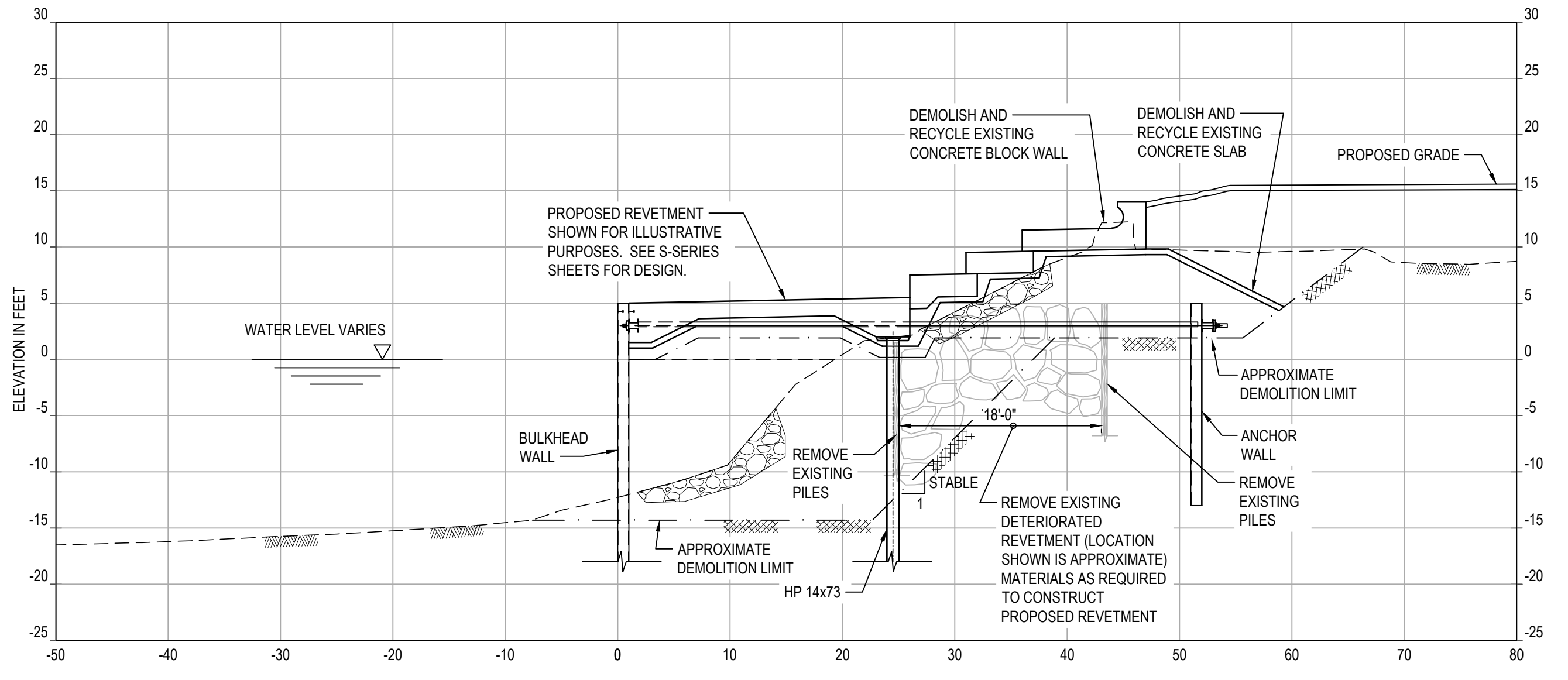
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 SCALE: 1" = 10'
 C-122



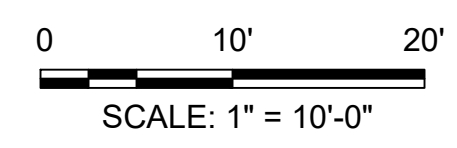
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C SECTION - STA. 1+93
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 C-122

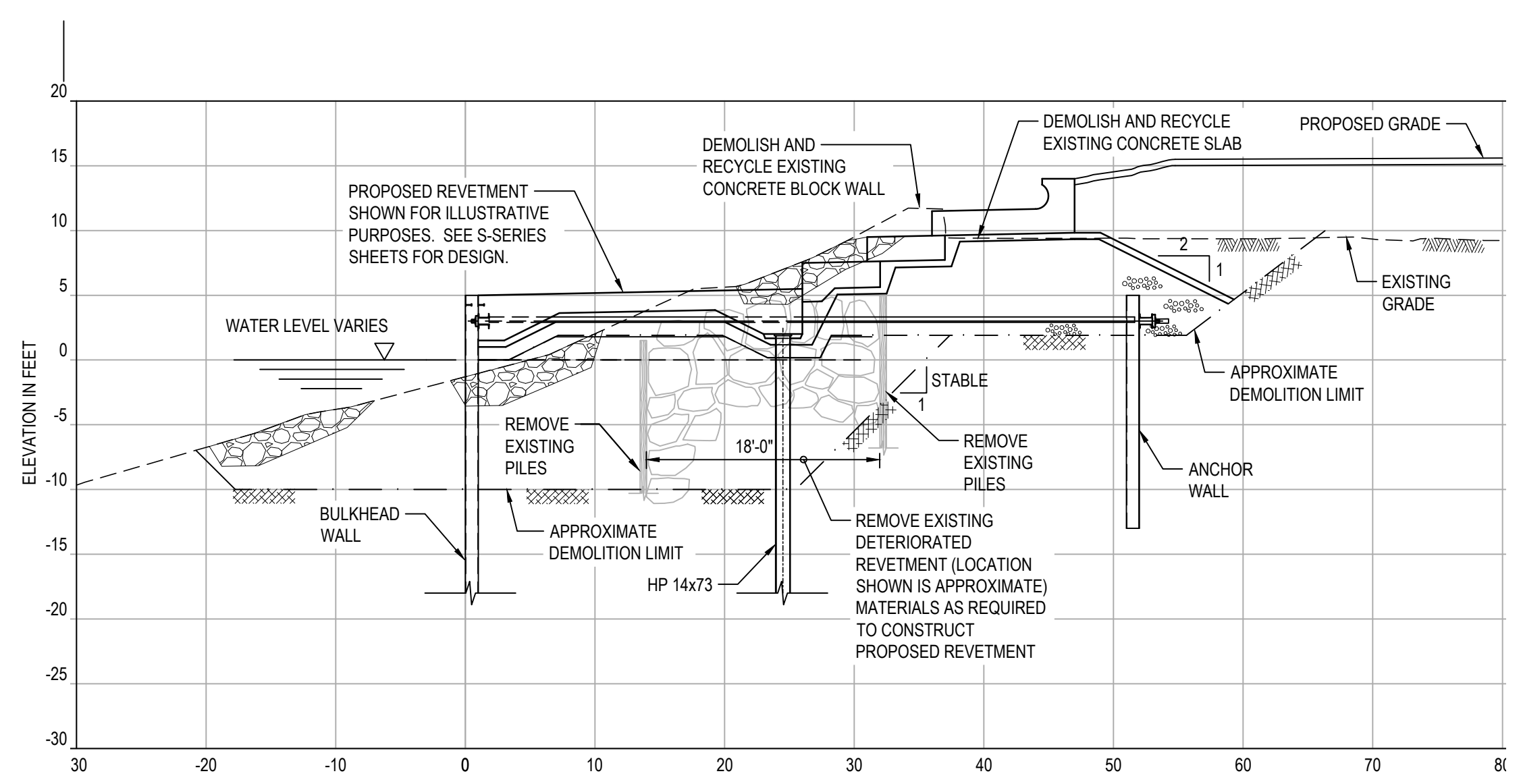


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 C-122

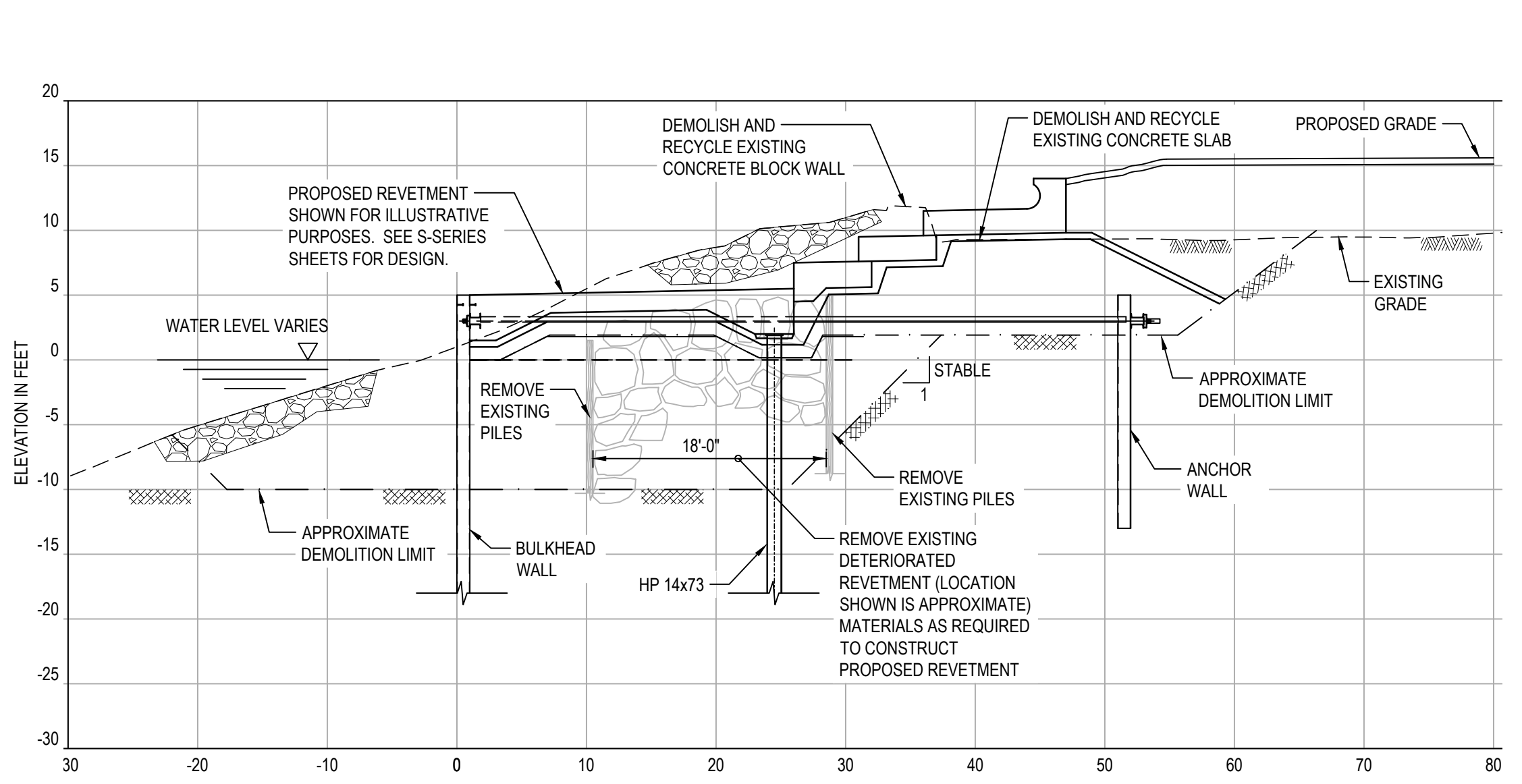


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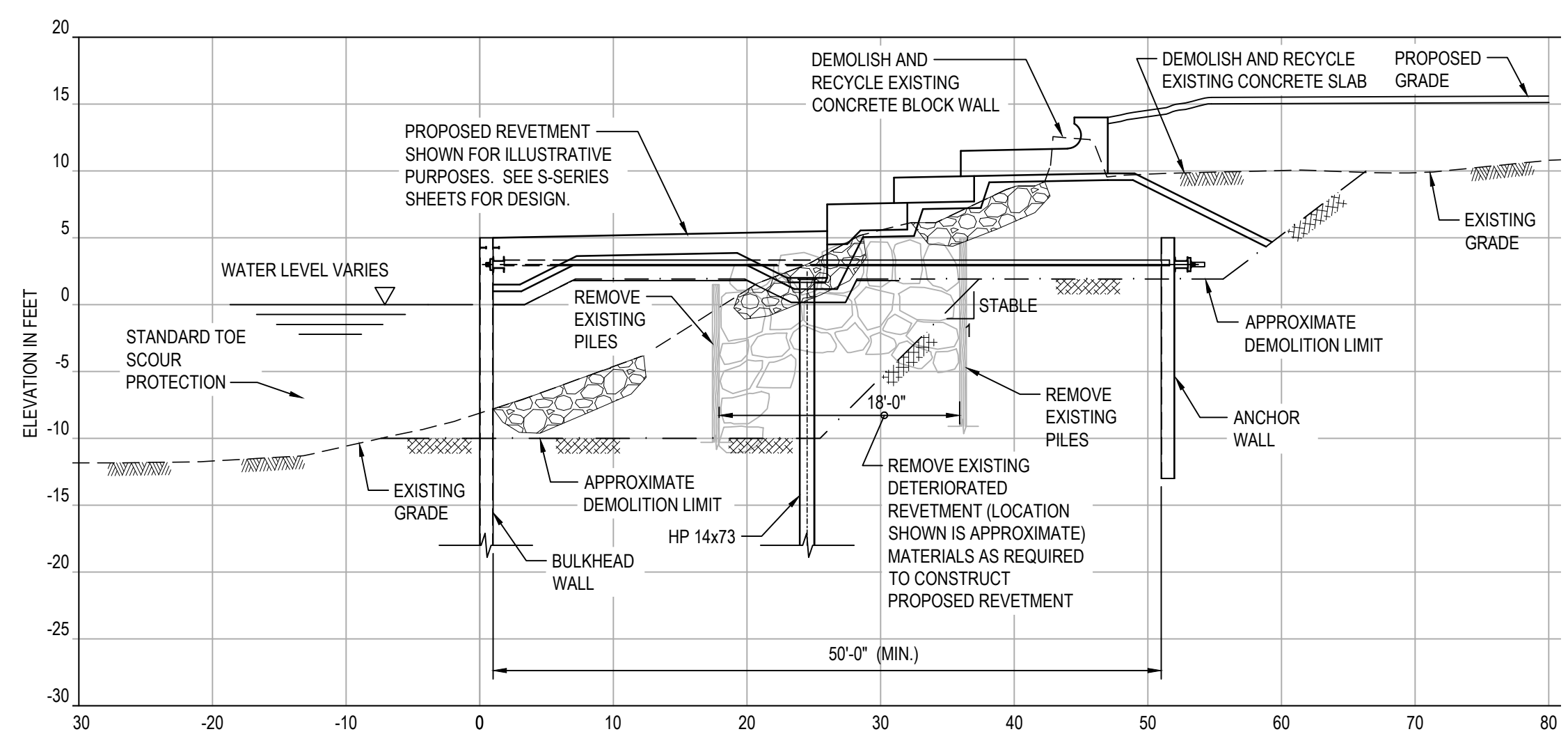
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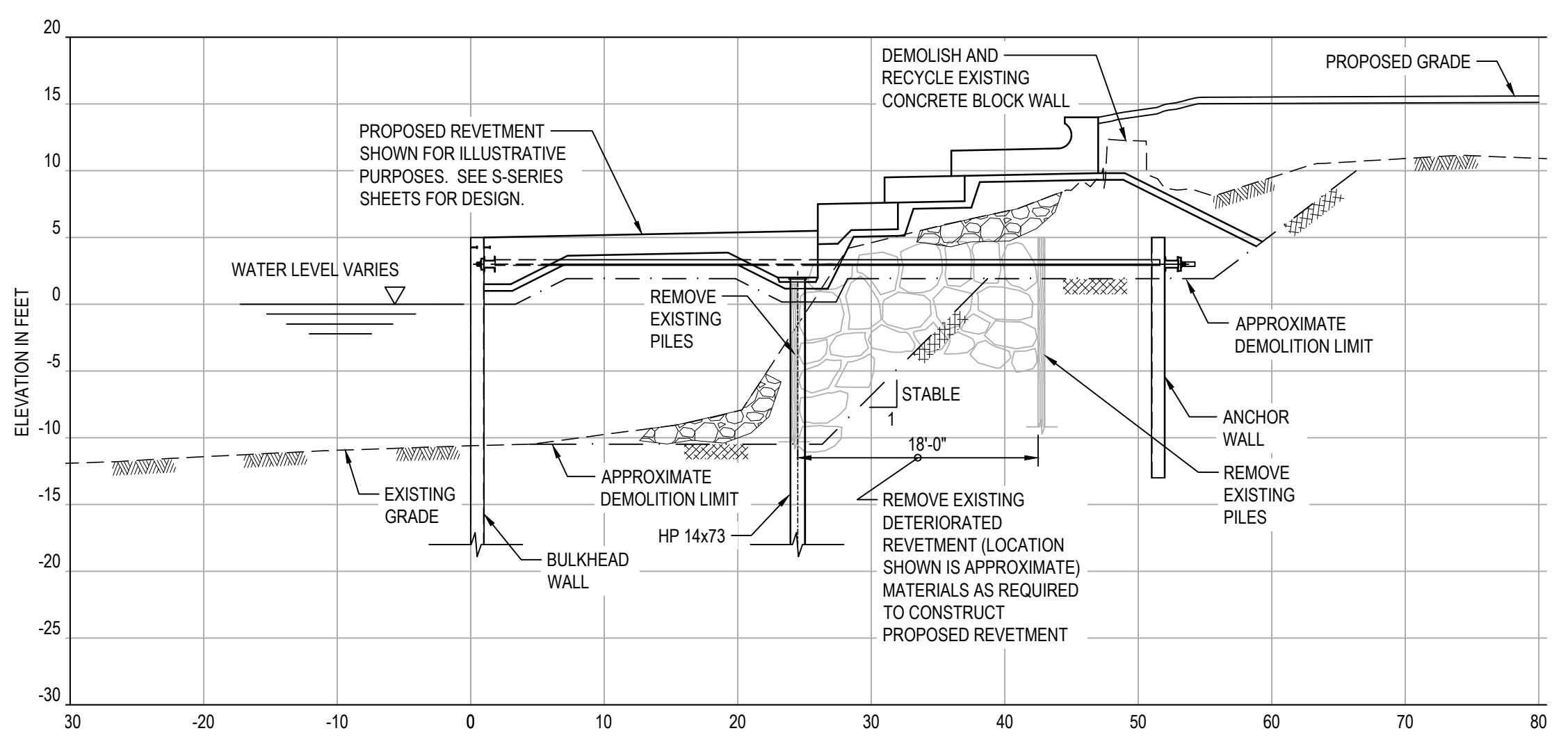
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SCALE: 1" = 10'



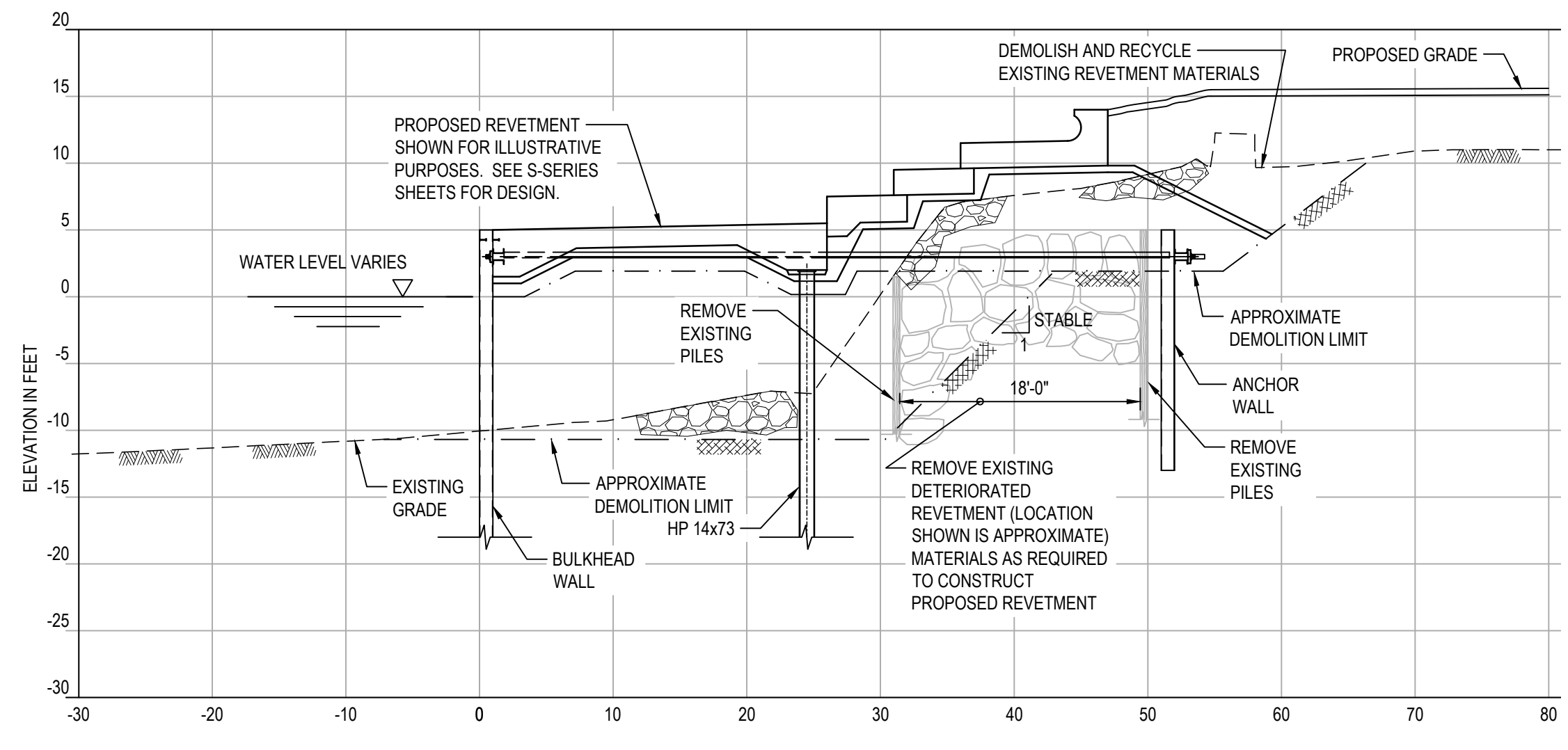
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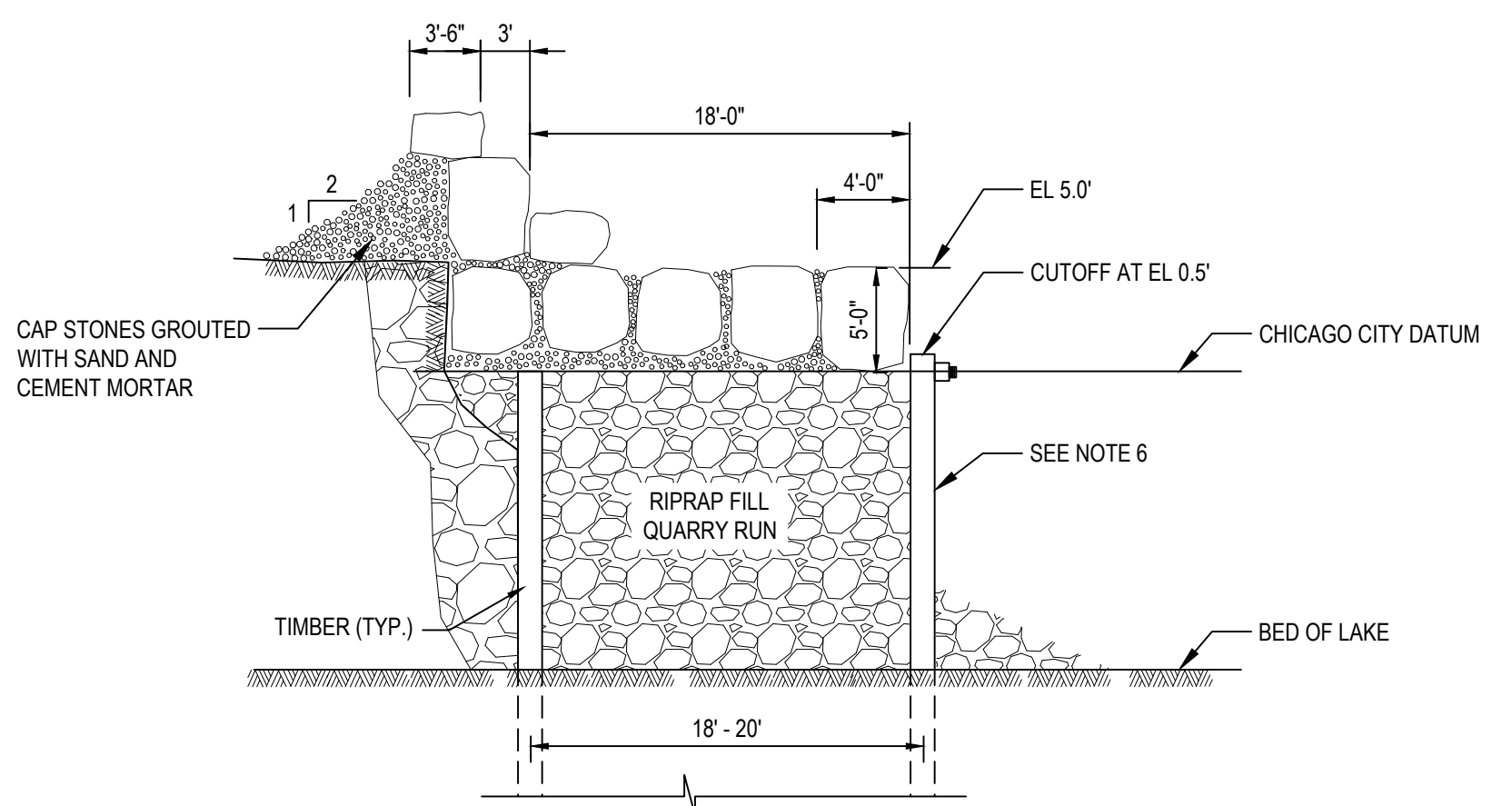
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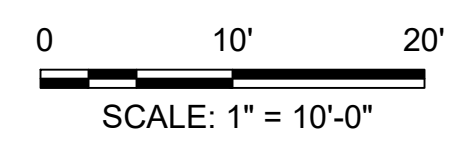
H SECTION - STA. 7+00
SCALE: 1" = 10'



I SECTION - STA. 7+90
SCALE: 1" = 10'



1 DETAIL - EXISTING DETERIORATED REVETMENT ORIGINAL CROSS SECTION DESIGN
SCALE: NTS



NOT FOR CONSTRUCTION



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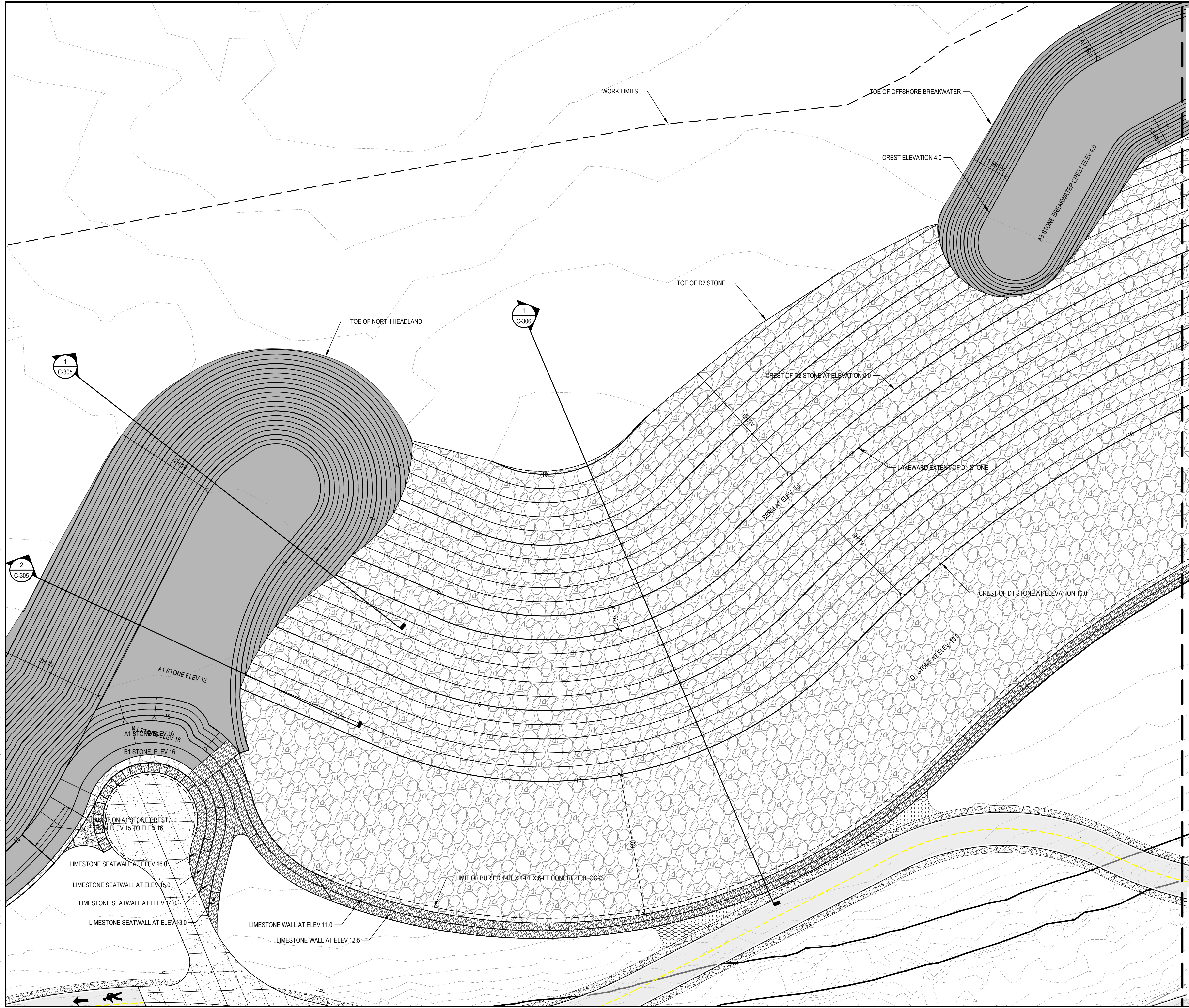
Mark	Description	Date
XX	Initial SHPO Submittal	03/2024

PBC Project Name: Chicago Shoreline Protection Project
PBC Contract No.: 22703
Project No.: 13676

Title: **DEMOLITION FOR UNIVERSAL ACCESS SECTIONS**

Sheet: **C-317**

FILE: C:\pw_working\wtr_sposques\40243929\22703-C-404.dwg USER: sposques DATE: Oct, 04 2023 TIME: 04:20 pm



SHEET NOTES

A. INFORMATION PRESENTED IS BASED ON SURVEY DATED 1998/9, UTILITY INFORMATION FROM THE CONTRACT PLANS FOR IMPROVEMENT OF US ROUTE 41 (SOUTH LAKE SHORE DRIVE) DATED DECEMBER, 2001, AND AERIAL VIEW PHOTOGRAPHY FROM NEARMAP DATED OCTOBER, 2018.

B. ALL INFORMATION IS APPROXIMATE. DRAWINGS ARE NOT FOR CONSTRUCTION.

C. TOPOGRAPHIC INFORMATION IS ASSUMED LOW WATER DATUM (LWD) FOR LAKE MICHIGAN. TO CONVERT TO CHICAGO CITY DATUM (CCD) SUBTRACT 1.145 FEET.

D. PHOTOGRAPHS ARE FROM MARCH / APRIL 2022, UNLESS OTHERWISE NOTED.

KEYED NOTES

- TOP OF SHORELINE PROTECTION, SEE COASTAL ENGINEERING PLANS, TYP.
- 3' WIDE GRAVEL SHOULDER ALONG PEDESTRIAN PATH, TYP.
- PROTECT EXISTING PEDESTRIAN PATH TO REMAIN.
- PROTECT EXISTING BIKE PATH TO REMAIN, TYP.
- PROTECT EXISTING TREES TO REMAIN, TYP. SEE TREE PROTECTION AND REMOVALS PLANS.
- PROVIDE SMOOTH TRANSITION TO EXISTING PATH.

LEGEND

	WORK LIMITS
	GRADING LIMIT LINE
	PEDESTRIAN PATH
	BIKE PATH
	CONCRETE PAVEMENT
	GRAVEL
	VEHICULAR ACCESS GRAVEL
	STONE SEATING
	MIX TRANSITION STONE
	CONCRETE PAVEMENT WITH THICKENED EDGE
	CONTROL JOINT
	EXPANSION JOINT
	HANDRAIL
	BENCH
	BIKE RACKS

NOT FOR CONSTRUCTION



CHICAGO SHORELINE PROTECTION PROJECT

MORGAN SHOAL REVETMENT RECONSTRUCTION
45TH STREET TO 51ST STREET
CHICAGO, IL 60653

CHICAGO PARK DISTRICT
CITY OF CHICAGO, MAYOR LORI E. LIGHTFOOT

Architect of Record:
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PHONE: 312.641.0770
WEB: www.smithgroup.com

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Infrastructure Engineering, Inc.
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Civil Engineers of Record:
Latent Design Corporation
Chicago, IL
Architects:
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Lombard, IL
Geotechnical Consultant:
Living Habitats, LLC
Chicago, IL
Ecological Consultant:
American Surveying & Engineering
Chicago, IL
Surveying Consultant:
CCJM Engineers
Chicago, IL
MEP Consultant:
Thornton Tomasetti
Chicago, IL
Structural Consultant:

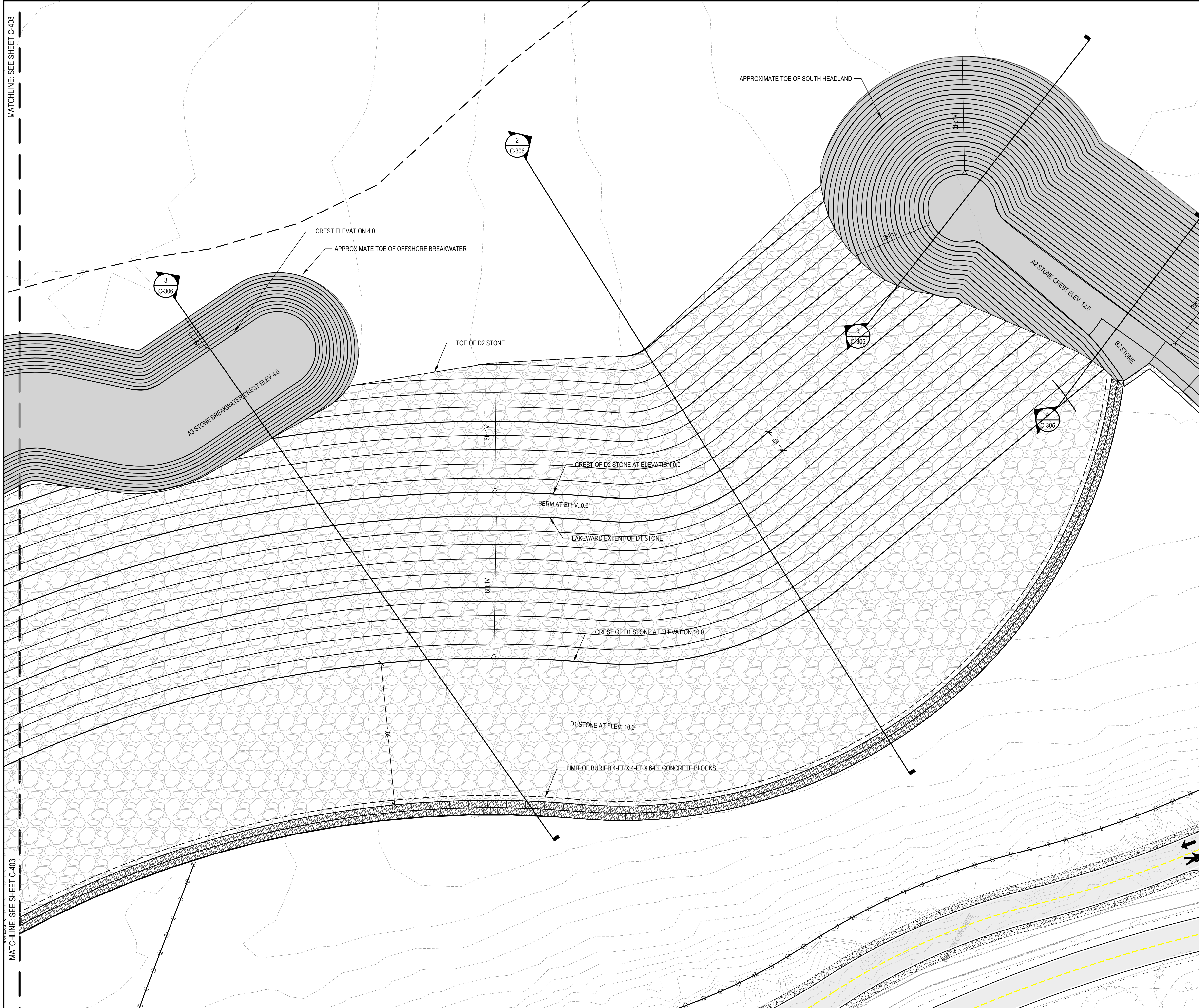
Mark	Description	Date
XX	Initial SHPO Submittal	03/2024

PBC Project Name: Chicago Shoreline Protection Project
PBC Contact No.: 22703
Project No.: 13576
Title:
DYNAMIC REVETMENT ENLARGEMENT
Sheet
C-404

FILE: C:\pw_working\wtr\cerichard\024\39\29\22703-C-405.dwg USER: cerichard DATE: Oct, 03 2023 TIME: 01:25 pm

MATCHLINE: SEE SHEET C-403

MATCHLINE: SEE SHEET C-403



SHEET NOTES

KEYED NOTES

LEGEND

NOT FOR CONSTRUCTION



CHICAGO SHORELINE PROTECTION PROJECT

MORGAN SHOAL REVETMENT RECONSTRUCTION
 45TH STREET TO 51ST STREET
 CHICAGO, IL 60653

CHICAGO PARK DISTRICT
 CITY OF CHICAGO, MAYOR LORI E. LIGHTFOOT

Architect of Record:

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Living Habitats, LLC
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 Ecological Consultant

American Surveying & Engineering
 Chicago, IL
 Surveying Consultant

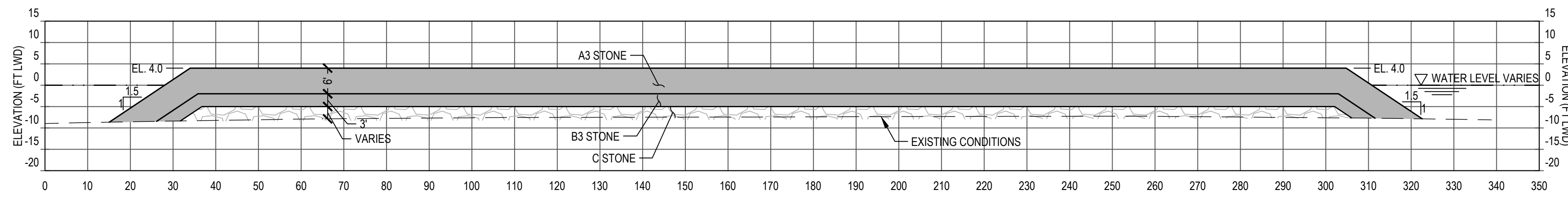
CCJM Engineers
 Chicago, IL
 MEP Consultant

Thornton Tomasetti
 Chicago, IL
 Structural Consultant

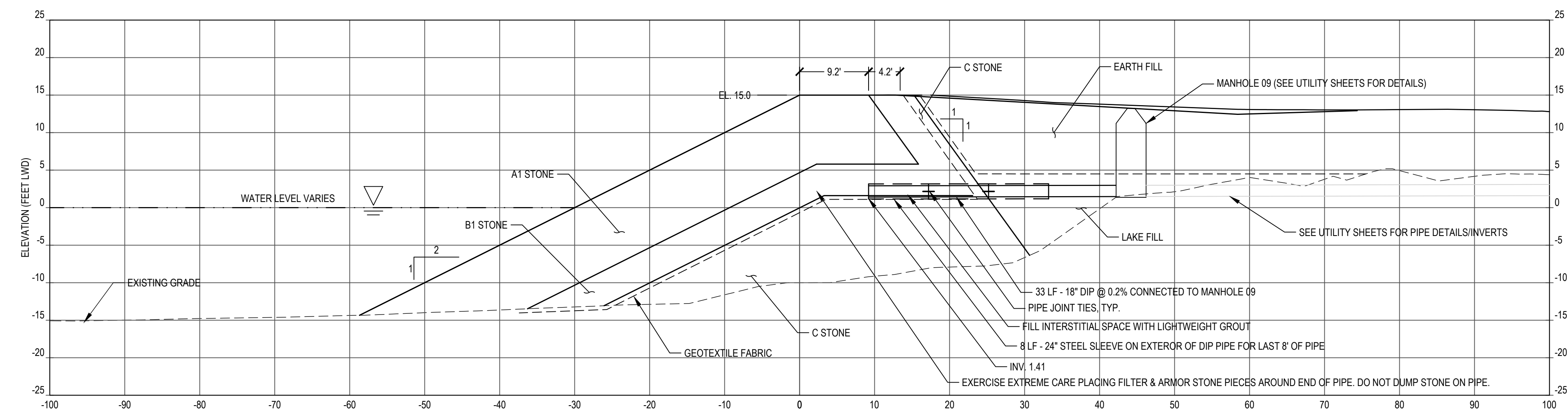
Issuance		
Mark	Description	Date
XX	Initial SHPO Submittal	03/2024

PBC Project Name: Chicago Shoreline Protection Project
 PBC Contract No.: 22703
 Project No.: 13576
 Title:

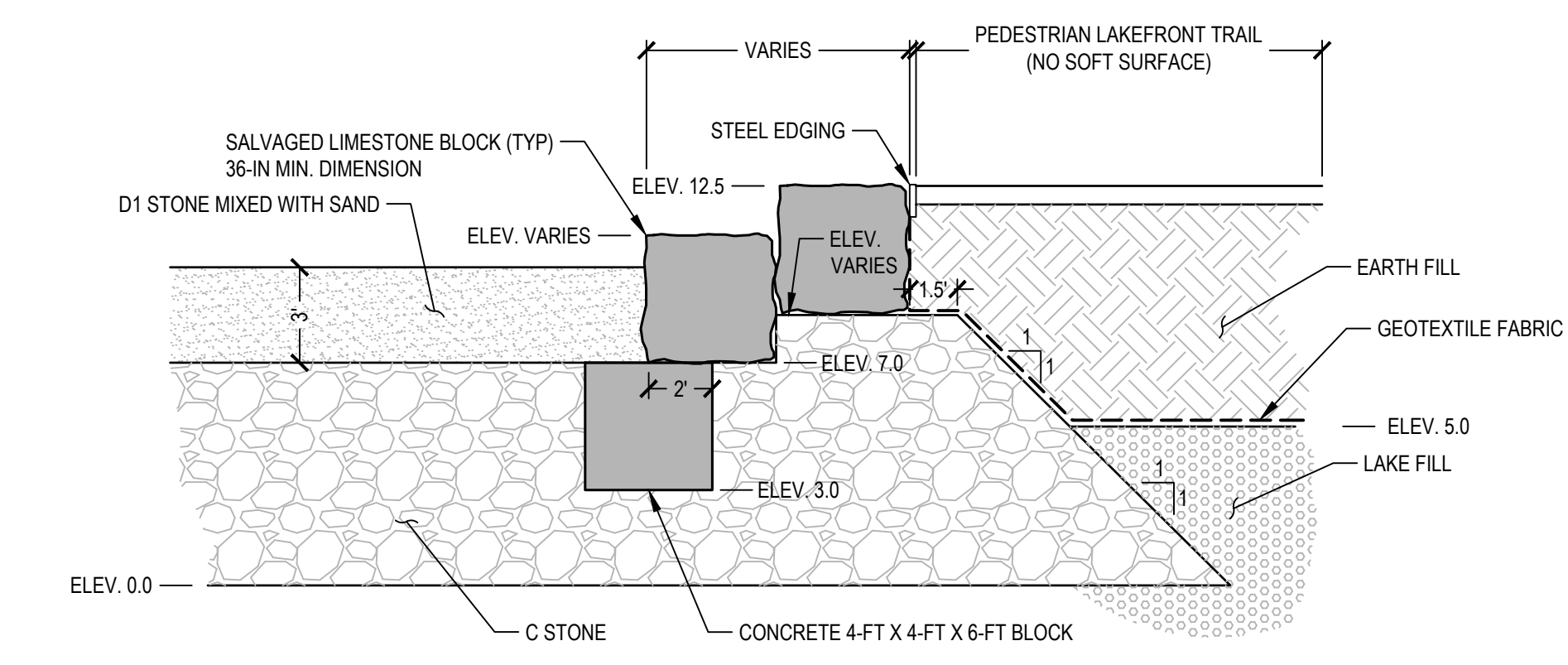
DYNAMIC REVETMENT ENLARGEMENT



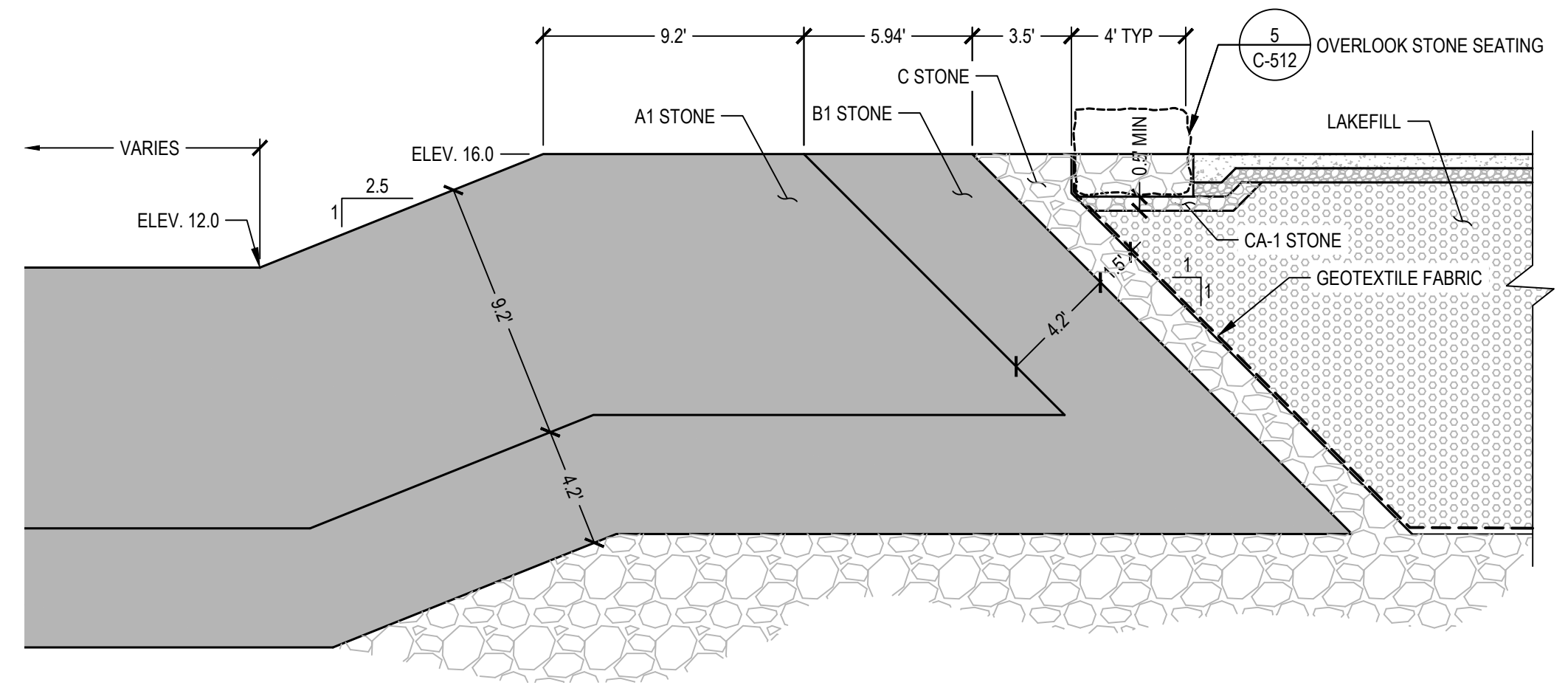
1 DETACHED BREAKWATER PROFILE SCALE: 1" = 20'



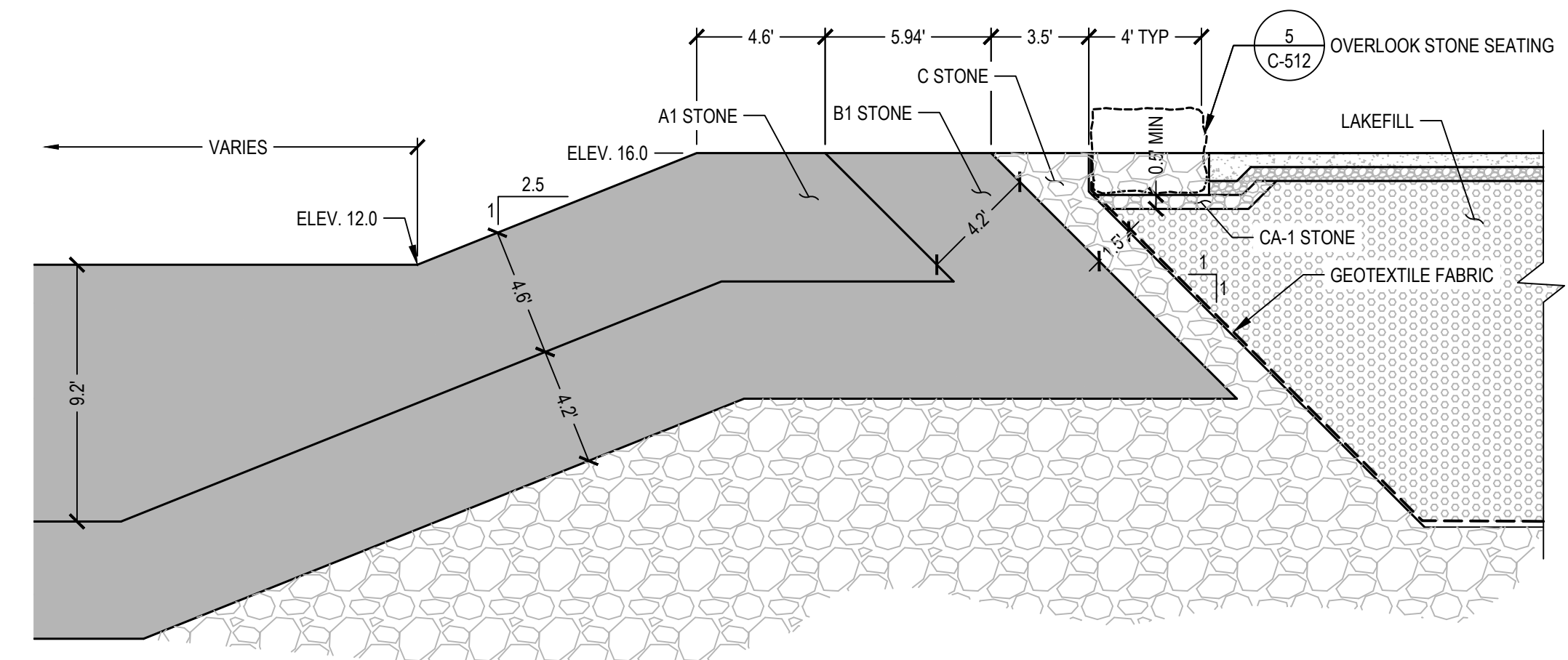
2 STORMWATER OUTFALL EXTENSION AT NORTH REVETMENT SCALE: 1" = 10'



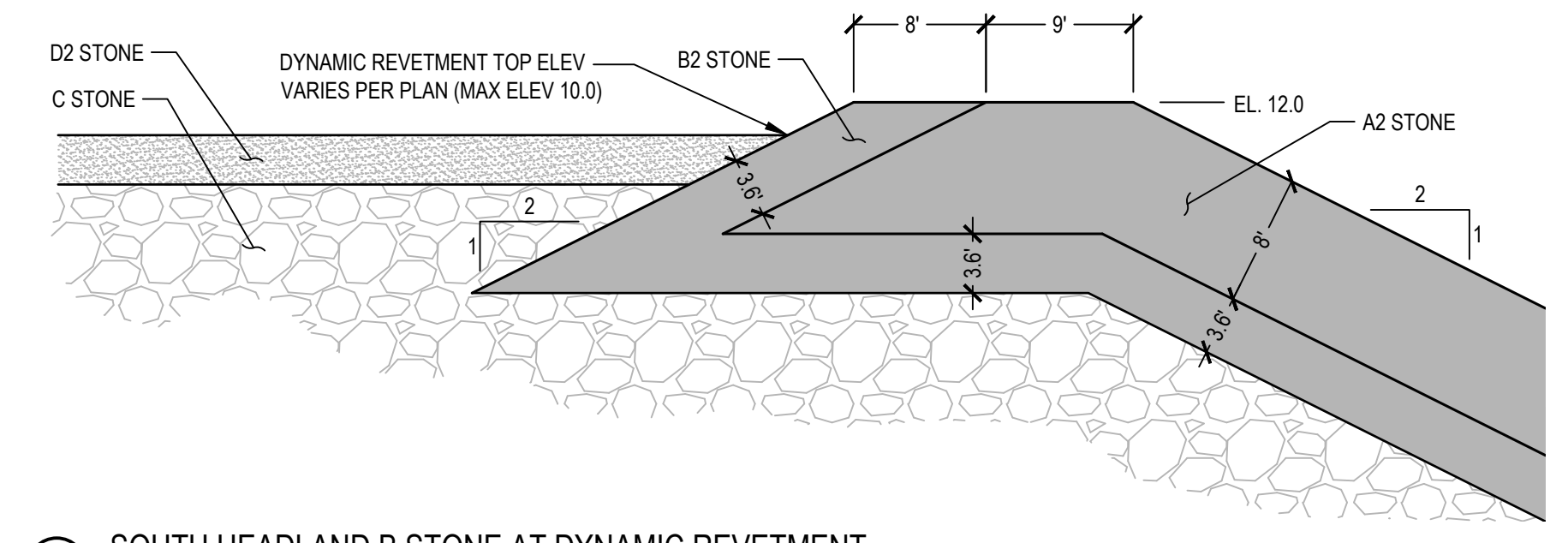
3 LIMESTONE BLOCK WALL AT DYNAMIC REVETMENT SCALE: 1" = 5'



4 OVERLOOK SEAT WALL SCALE: 1" = 5'



5 OVERLOOK SEAT WALL SCALE: 1" = 5'



6 SOUTH HEADLAND B STONE AT DYNAMIC REVETMENT SCALE: 1" = 10'

SHEET NOTES

KEYED NOTES

LEGEND

NOT FOR CONSTRUCTION



CHICAGO SHORELINE PROTECTION PROJECT
 MORGAN SHOAL REVETMENT RECONSTRUCTION
 45TH STREET TO 51ST STREET
 CHICAGO, IL 60653
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 Chicago, IL

MEP Consultant:
CCJM Engineers
 Chicago, IL

Structural Consultant:
Thornton Tomasetti
 Chicago, IL

Mark	Description	Date
XX	Initial SHPO Submittal	03/2024

PBC Project Name: Chicago Shoreline Protection Project
 PBC Contract No.: 22703
 Project No.: 13576
 Title:

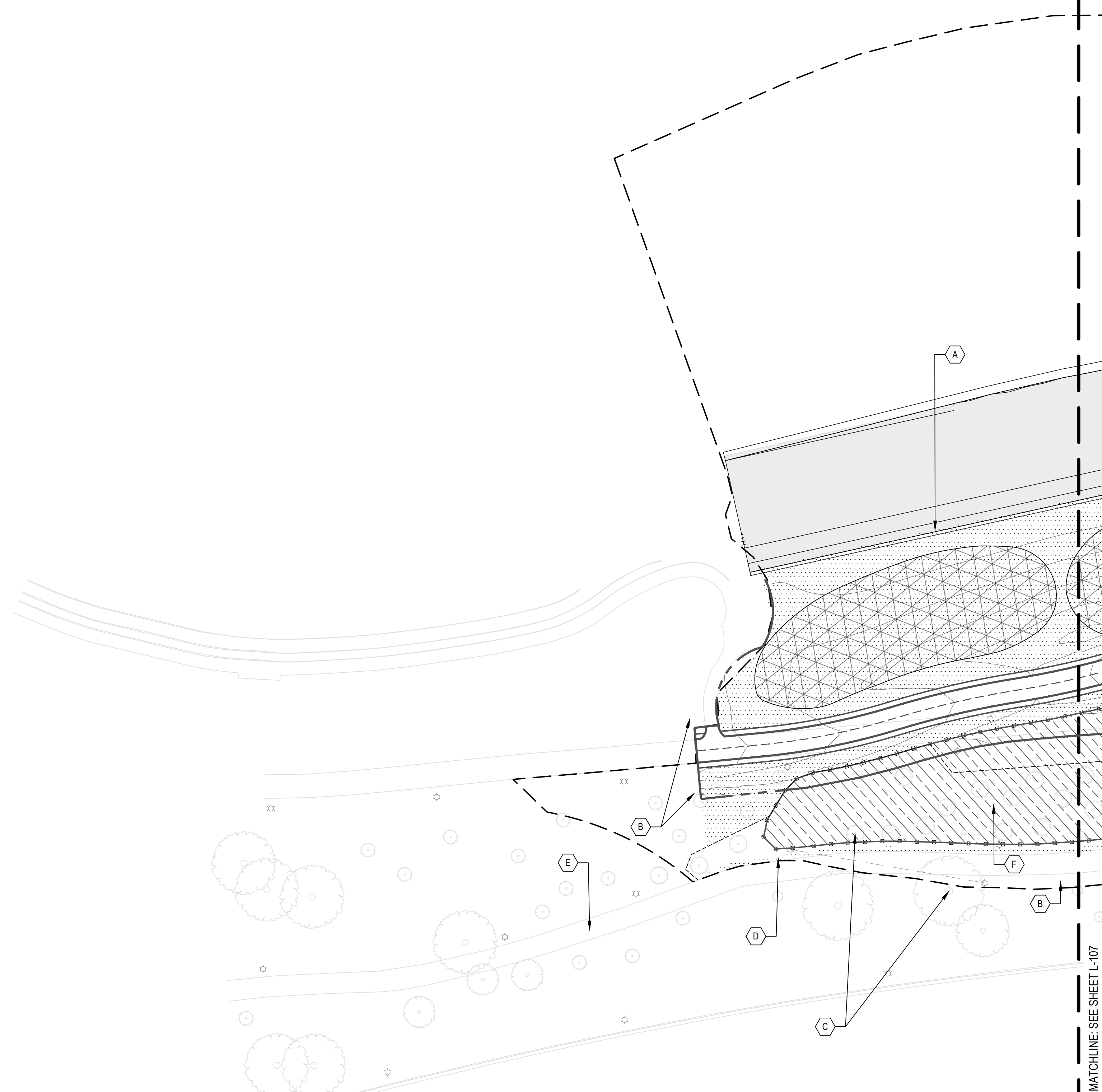
REVETMENT PROFILE AND DETAILS

Sheet **C-517**

FILE: C:\pw_working\wtr\cerichard\0243929\22703-C-517.dwg USER:cerichard DATE: Oct. 03 2023 TIME: 01:42 pm

MATCHLINE-SEE SHEET L-107

MATCHLINE-SEE SHEET L-107



SHEET NOTES

1. INFORMATION PRESENTED IS BASED ON SURVEY DATED 1998/9, UTILITY INFORMATION FROM THE CONTRACT PLANS FOR IMPROVEMENT OF US ROUTE 41 (SOUTH LAKE SHORE DRIVE) DATED DECEMBER, 2001, AND AERIAL VIEW PHOTOGRAPHY FROM NEARMAP DATED JULY, 2021.
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4. SEE GRADING AND UTILITY SHEETS FOR PROPOSED GRADING AND UTILITY WORK.
5. TREE LOCATIONS AND QUANTITY MAY BE ADJUSTED WITH FINAL DESIGN AND GRADING.
6. TREE PRESERVATION AND REMOVAL TO BE DETERMINED AT FINAL DESIGN AND GRADING
7. ALL SEEDED AREAS TO RECEIVE BLANKET.

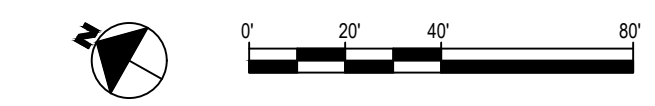
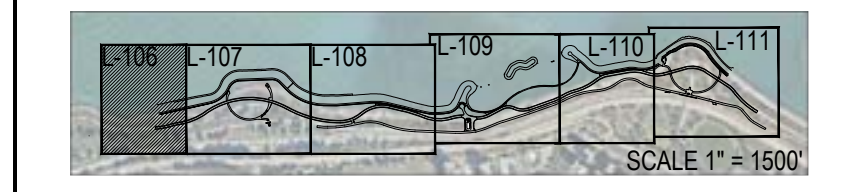
KEYED NOTES

- A. TOP OF SHORELINE PROTECTION, SEE COASTAL ENGINEERING DRAWINGS.
- B. REPAIR LAWN AS NECESSARY AT THE DIRECTION OF THE COMMISSION REPRESENTATIVE.
- C. PROTECT EXISTING TREES TO REMAIN, TYP. SEE TREE PROTECTION AND REMOVAL PLANS.
- D. PROVIDE 3' WIDE MINIMUM MOWED LAWN ALONG BIKE PATH AND GRAVEL EDGE OF PEDESTRIAN PATH.
- E. EXISTING BIKE PATH TO REMAIN.
- F. PROVIDE SOIL AMENDMENT AND PROTECTION FOR NATIVE PLANTING AREAS. NATIVE PLANTINGS TO BE INSTALLED UNDER SEPERATE CONTRACT.
- G. SALT TOLERANT SOD TO BE PLANTED WEST OF PROPOSED BIKE PATH.

LEGEND

---	WORK LIMITS	
---	TREE PROTECTION FENCE	(1,2,3) L-501
○	EXISTING TREES	
▨	LAWN	
▨	PRAIRIE/SAVANNAH SOIL AMENDMENT WITH STRAW BLANKET COVER	
▨	DUNE SOIL AMENDMENT WITH GEOTEXTILE COVER	
▭	BENCH	(1) L-501
	BIKE RACK	(2) L-501
⊠	NATURAL AREA SPLIT RAIL FENCE	(4) L-501
⊕	DUNE AREA SPLIT RAIL FENCE	(5) L-501
○	TREE PLANTING AREAS WITH TREE COUNT, TO BE FIELD LOCATED AS DIRECTED BY THE COMMISSION REPRESENTATIVE TOTAL: 180 4" CALIPER TREES	

KEY MAP



NOT FOR CONSTRUCTION



CHICAGO SHORELINE PROTECTION PROJECT
 MORGAN SHOAL REVETMENT RECONSTRUCTION
 45TH STREET TO 51ST STREET
 CHICAGO, IL 60653
 CHICAGO PARK DISTRICT
 CITY OF CHICAGO, MAYOR LORI E. LIGHTFOOT

Architect of Record:
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Wang Engineering, Inc.
 Lombard, IL
 Geotechnical Consultant

Living Habitats, LLC
 Chicago, IL
 Ecological Consultant

American Surveying & Engineering
 Chicago, IL
 Surveying Consultant

CCJM Engineers
 Chicago, IL
 MEP Consultant

Thornton Tomasetti
 Chicago, IL
 Structural Consultant

Mark	Description	Date
XX	Initial SHPO Submittal	03/2024

PBC Project Name: Chicago Shoreline Protection Project
 PBC Contract No.: 22703
 Project No.: 13576
 Title:

LANDSCAPING PLAN-A

Sheet
L-106

FILE: C:\pw_working\wtr\jpollack\039030340\22703-L-107.dwg USER: jpollack DATE: Oct, 04 2023 TIME: 03:34 pm

MATCHLINE: SEE SHEET L106

MATCHLINE: SEE SHEET L106

MATCHLINE: SEE SHEET L108

MATCHLINE: SEE SHEET L108

SHEET NOTES

1. INFORMATION PRESENTED IS BASED ON SURVEY DATED 1998/9, UTILITY INFORMATION FROM THE CONTRACT PLANS FOR IMPROVEMENT OF US ROUTE 41 (SOUTH LAKE SHORE DRIVE) DATED DECEMBER, 2001, AND AERIAL VIEW PHOTOGRAPHY FROM NEARMAP DATED JULY, 2021.
2. ALL INFORMATION IS APPROXIMATE. DRAWINGS ARE NOT FOR CONSTRUCTION.
3. TOPOGRAPHIC INFORMATION IS ASSUMED LOW WATER DATUM (LWD) FOR LAKE MICHIGAN. TO CONVERT TO CHICAGO CITY DATUM (CCD) SUBTRACT 1.145 FEET.
4. SEE GRADING AND UTILITY SHEETS FOR PROPOSED GRADING AND UTILITY WORK.
5. TREE LOCATIONS AND QUANTITY MAY BE ADJUSTED WITH FINAL DESIGN AND GRADING.
6. TREE PRESERVATION AND REMOVAL TO BE DETERMINED AT FINAL DESIGN AND GRADING.
7. ALL SEEDED AREAS TO RECEIVE BLANKET.

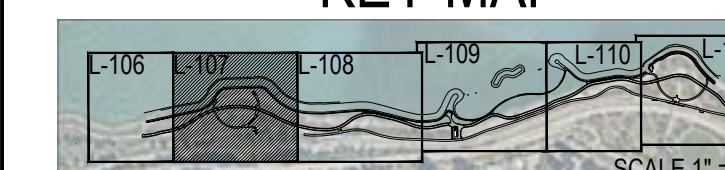
KEYED NOTES

- A. TOP OF SHORELINE PROTECTION, SEE COASTAL ENGINEERING DRAWINGS.
- B. REPAIR LAWN AS NECESSARY AT THE DIRECTION OF THE COMMISSION REPRESENTATIVE.
- C. PROTECT EXISTING TREES TO REMAIN, TYP. SEE TREE PROTECTION AND REMOVAL PLANS.
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- E. EXISTING BIKE PATH TO REMAIN.
- F. PROVIDE SOIL AMENDMENT AND PROTECTION FOR NATIVE PLANTING AREAS. NATIVE PLANTINGS TO BE INSTALLED UNDER SEPERATE CONTRACT.
- G. SALT TOLERANT SOD TO BE PLANTED WEST OF PROPOSED BIKE PATH.

LEGEND

- WORK LIMITS
- - - - - TREE PROTECTION FENCE
- EXISTING TREES
- ▨ LAWN
- ▨ PRAIRIE/SAVANNAH SOIL AMENDMENT WITH STRAW BLANKET COVER
- ▨ DUNE SOIL AMENDMENT WITH GEOTEXTILE COVER
- ▭ BENCH
- ||| BIKE RACK
- ⊠ NATURAL AREA SPLIT RAIL FENCE
- ⊕ DUNE AREA SPLIT RAIL FENCE
- TREE PLANTING AREAS WITH TREE COUNT, TO BE FIELD LOCATED AS DIRECTED BY THE COMMISSION REPRESENTATIVE
TOTAL: 180 4" CALIPER TREES

KEY MAP



NOT FOR CONSTRUCTION



CHICAGO SHORELINE PROTECTION PROJECT
 MORGAN SHOAL STREET TO 51ST STREET
 CHICAGO, IL 60653
 CHICAGO PARK DISTRICT
 CITY OF CHICAGO, MAYOR LORI E. LIGHTFOOT

Architect of Record:
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 WEB: www.smithgroup.com

Structural Engineers of Record:
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Civil Engineers of Record:
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 Chicago, IL

Architects:
 Latent Design Corporation
 Chicago, IL

Geotechnical Consultant:
 Wang Engineering, Inc.
 Lombard, IL

Ecological Consultant:
 Living Habitats, LLC
 Chicago, IL

Surveying Consultant:
 American Surveying & Engineering
 Chicago, IL

MEP Consultant:
 CCJM Engineers
 Chicago, IL

Structural Consultant:
 Thornton Tomasetti
 Chicago, IL

Mark	Description	Date
XX	Initial SHPO Submittal	03/2024

PBC Project Name: Chicago Shoreline Protection Project
 PBC Contract No.: 22703
 Project No.: 13576

LANDSCAPING PLAN-B

Sheet **L-107**

FILE: C:\pw_working\wtr\ceerichard\0390340\22703-L-108.dwg USER: ceerichard DATE: Oct, 03 2023 TIME: 03:31 pm

MATCHLINE: SEE SHEET L107

MATCHLINE: SEE SHEET L107

MATCHLINE: SEE SHEET L109

MATCHLINE: SEE SHEET L109

SHEET NOTES

1. INFORMATION PRESENTED IS BASED ON SURVEY DATED 1998/9, UTILITY INFORMATION FROM THE CONTRACT PLANS FOR IMPROVEMENT OF US ROUTE 41 (SOUTH LAKE SHORE DRIVE) DATED DECEMBER, 2001, AND AERIAL VIEW PHOTOGRAPHY FROM NEARMAP DATED JULY, 2021.
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5. TREE LOCATIONS AND QUANTITY MAY BE ADJUSTED WITH FINAL DESIGN AND GRADING.
6. TREE PRESERVATION AND REMOVAL TO BE DETERMINED AT FINAL DESIGN AND GRADING.
7. ALL SEEDED AREAS TO RECEIVE BLANKET.

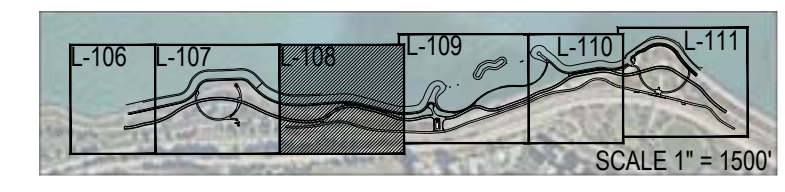
KEYED NOTES

- A. TOP OF SHORELINE PROTECTION, SEE COASTAL ENGINEERING DRAWINGS.
- B. REPAIR LAWN AS NECESSARY AT THE DIRECTION OF THE COMMISSION REPRESENTATIVE.
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- E. EXISTING BIKE PATH TO REMAIN.
- F. PROVIDE SOIL AMENDMENT AND PROTECTION FOR NATIVE PLANTING AREAS. NATIVE PLANTINGS TO BE INSTALLED UNDER SEPERATE CONTRACT.
- G. SALT TOLERANT SOD TO BE PLANTED WEST OF PROPOSED BIKE PATH.

LEGEND

- WORK LIMITS
- - - TREE PROTECTION FENCE
- EXISTING TREES
- LAWN
- ▨ PRAIRIE/SAVANNAH SOIL AMENDMENT WITH STRAW BLANKET COVER
- ▩ DUNE SOIL AMENDMENT WITH GEOTEXTILE COVER
- ▭ BENCH
- |||| BIKE RACK
- ⊠ NATURAL AREA SPLIT RAIL FENCE
- ⊕ DUNE AREA SPLIT RAIL FENCE
- ⊗ TREE PLANTING AREAS WITH TREE COUNT, TO BE FIELD LOCATED AS DIRECTED BY THE COMMISSION REPRESENTATIVE
TOTAL: 180 4" CALIPER TREES

KEY MAP



NOT FOR CONSTRUCTION



CHICAGO SHORELINE PROTECTION PROJECT
 MORGAN SHOAL REVETMENT RECONSTRUCTION
 45TH STREET TO 51ST STREET
 CHICAGO, IL 60653
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 Chicago, IL
 Surveying Consultant

CCJM Engineers
 Chicago, IL
 MEP Consultant

Thornton Tomasetti
 Chicago, IL
 Structural Consultant

Mark	Description	Date
XX	Initial SHPO Submittal	03/2024

PBC Project Name: Chicago Shoreline Protection Project
 PBC Contract No.: 22703
 Project No.: 13576

Title: **LANDSCAPING PLAN-C**

Sheet: **L-108**

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MATCHLINE: SEE SHEET L108

MATCHLINE: SEE SHEET L110

MATCHLINE: SEE SHEET L110

SHEET NOTES

1. INFORMATION PRESENTED IS BASED ON SURVEY DATED 1998/9, UTILITY INFORMATION FROM THE CONTRACT PLANS FOR IMPROVEMENT OF US ROUTE 41 (SOUTH LAKE SHORE DRIVE) DATED DECEMBER, 2001, AND AERIAL VIEW PHOTOGRAPHY FROM NEARMAP DATED JULY, 2021.
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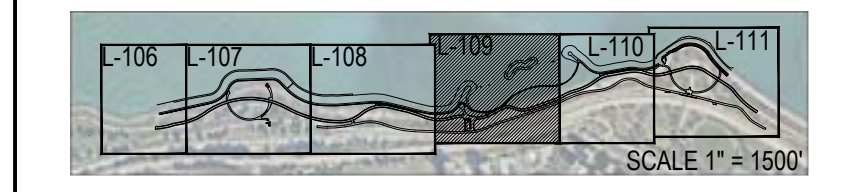
KEYED NOTES

- A. TOP OF SHORELINE PROTECTION, SEE COASTAL ENGINEERING DRAWINGS.
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LEGEND

- WORK LIMITS
- - - - TREE PROTECTION FENCE
- EXISTING TREES
- ▨ LAWN
- ▨ PRAIRIE/SAVANNAH SOIL AMENDMENT WITH STRAW BLANKET COVER
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- ▨ BENCH
- |||| BIKE RACK
- ⊠ NATURAL AREA SPLIT RAIL FENCE
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- ⊗ TREE PLANTING AREAS WITH TREE COUNT, TO BE FIELD LOCATED AS DIRECTED BY THE COMMISSION REPRESENTATIVE
TOTAL: 180 4" CALIPER TREES

KEY MAP



NOT FOR CONSTRUCTION



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MORGAN SHOAL REVETMENT RECONSTRUCTION
45TH STREET TO 51ST STREET
CHICAGO, IL 60653
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Structural Consultant

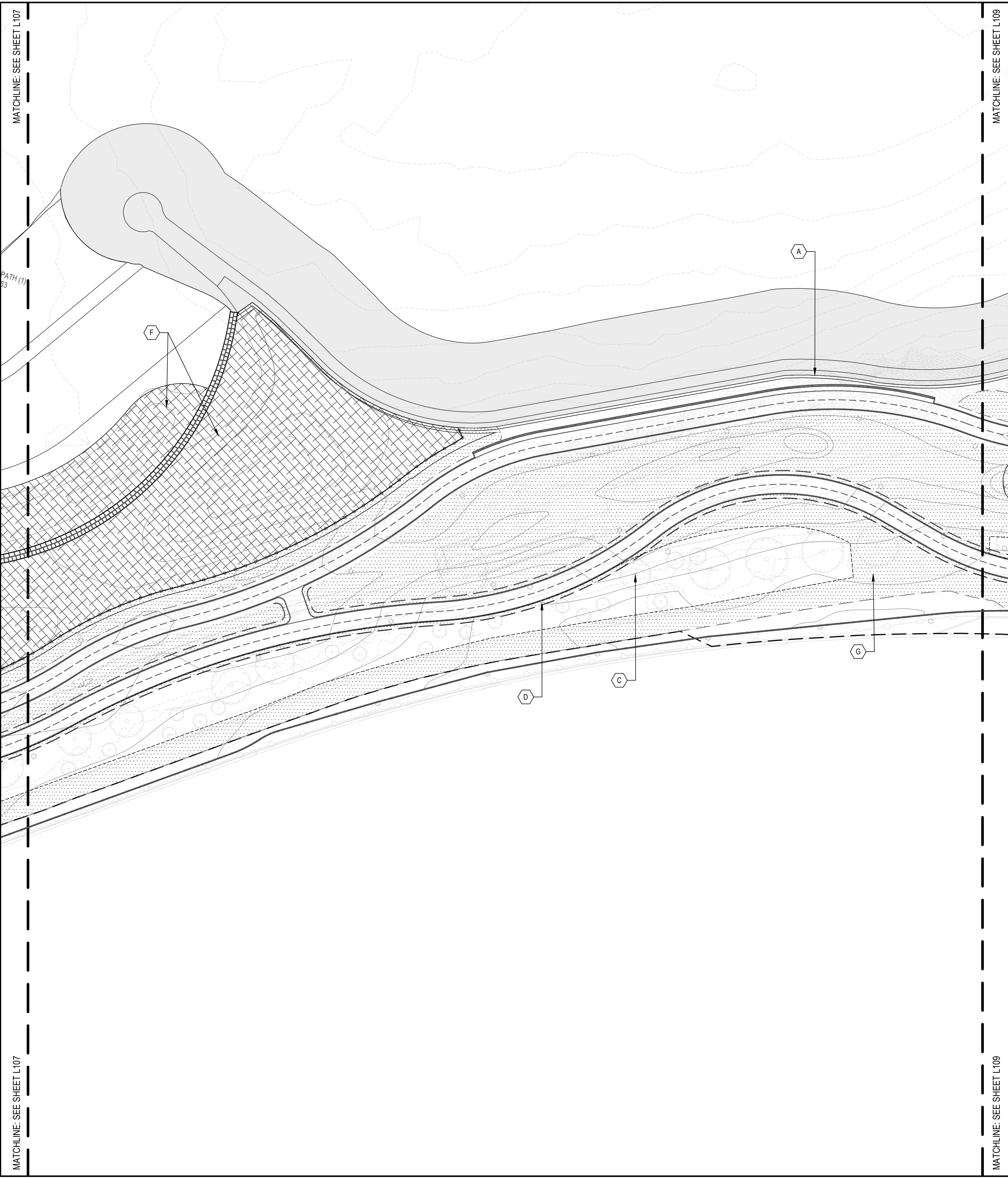
Mark	Description	Date
XX	Initial SHPO Submittal	03/2024

PBC Project Name: Chicago Shoreline Protection Project
PBC Contract No.: 22703
Project No.: 13576
Title:

LANDSCAPING PLAN-D

Sheet
L-109

FILE: C:\pw_working\wtr\ceerichard\03903040\22703-L-110.dwg USER: ceerichard DATE: Oct, 03 2023 TIME: 03:33 pm



MATCHLINE: SEE SHEET L107

MATCHLINE: SEE SHEET L107

MATCHLINE: SEE SHEET L109

MATCHLINE: SEE SHEET L109

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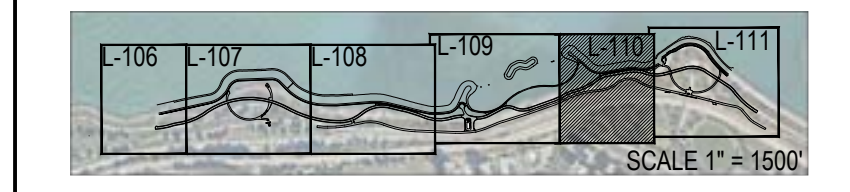
KEYED NOTES

- A. TOP OF SHORELINE PROTECTION, SEE COASTAL ENGINEERING DRAWINGS.
- B. REPAIR LAWN AS NECESSARY AT THE DIRECTION OF THE COMMISSION REPRESENTATIVE.
- C. PROTECT EXISTING TREES TO REMAIN, TYP. SEE TREE PROTECTION AND REMOVAL PLANS.
- D. PROVIDE 3' WIDE MINIMUM MOWED LAWN ALONG BIKE PATH AND GRAVEL EDGE OF PEDESTRIAN PATH.
- E. EXISTING BIKE PATH TO REMAIN.
- F. PROVIDE SOIL AMENDMENT AND PROTECTION FOR NATIVE PLANTING AREAS. NATIVE PLANTINGS TO BE INSTALLED UNDER SEPERATE CONTRACT.
- G. SALT TOLERANT SOD TO BE PLANTED WEST OF PROPOSED BIKE PATH.

LEGEND

- WORK LIMITS
- - - TREE PROTECTION FENCE
- EXISTING TREES
- ▨ LAWN
- ▨ PRAIRIE/SAVANNAH SOIL AMENDMENT WITH STRAW BLANKET COVER
- ▨ DUNE SOIL AMENDMENT WITH GEOTEXTILE COVER
- ▨ BENCH
- ||| BIKE RACK
- ⊠ NATURAL AREA SPLIT RAIL FENCE
- ⊕ DUNE AREA SPLIT RAIL FENCE
- TREE PLANTING AREAS WITH TREE COUNT, TO BE FIELD LOCATED AS DIRECTED BY THE COMMISSION REPRESENTATIVE
TOTAL: 180 4" CALIPER TREES

KEY MAP



NOT FOR CONSTRUCTION



CHICAGO SHORELINE PROTECTION PROJECT
 MORGAN SHOAL REVETMENT RECONSTRUCTION
 45TH STREET TO 51ST STREET
 CHICAGO, IL 60653
 CHICAGO PARK DISTRICT
 CITY OF CHICAGO, MAYOR LORI E. LIGHTFOOT

Architect of Record:
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 CHICAGO, ILLINOIS 60601
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 Structural Engineers of Record

Infrastructure Engineering, Inc.
 Chicago, IL
 Civil Engineers of Record

Latent Design Corporation
 Chicago, IL
 Architects

Wang Engineering, Inc.
 Lombard, IL
 Geotechnical Consultant

Living Habitats, LLC
 Chicago, IL
 Ecological Consultant

American Surveying & Engineering
 Chicago, IL
 Surveying Consultant

CCJM Engineers
 Chicago, IL
 MEP Consultant

Thornton Tomasetti
 Chicago, IL
 Structural Consultant

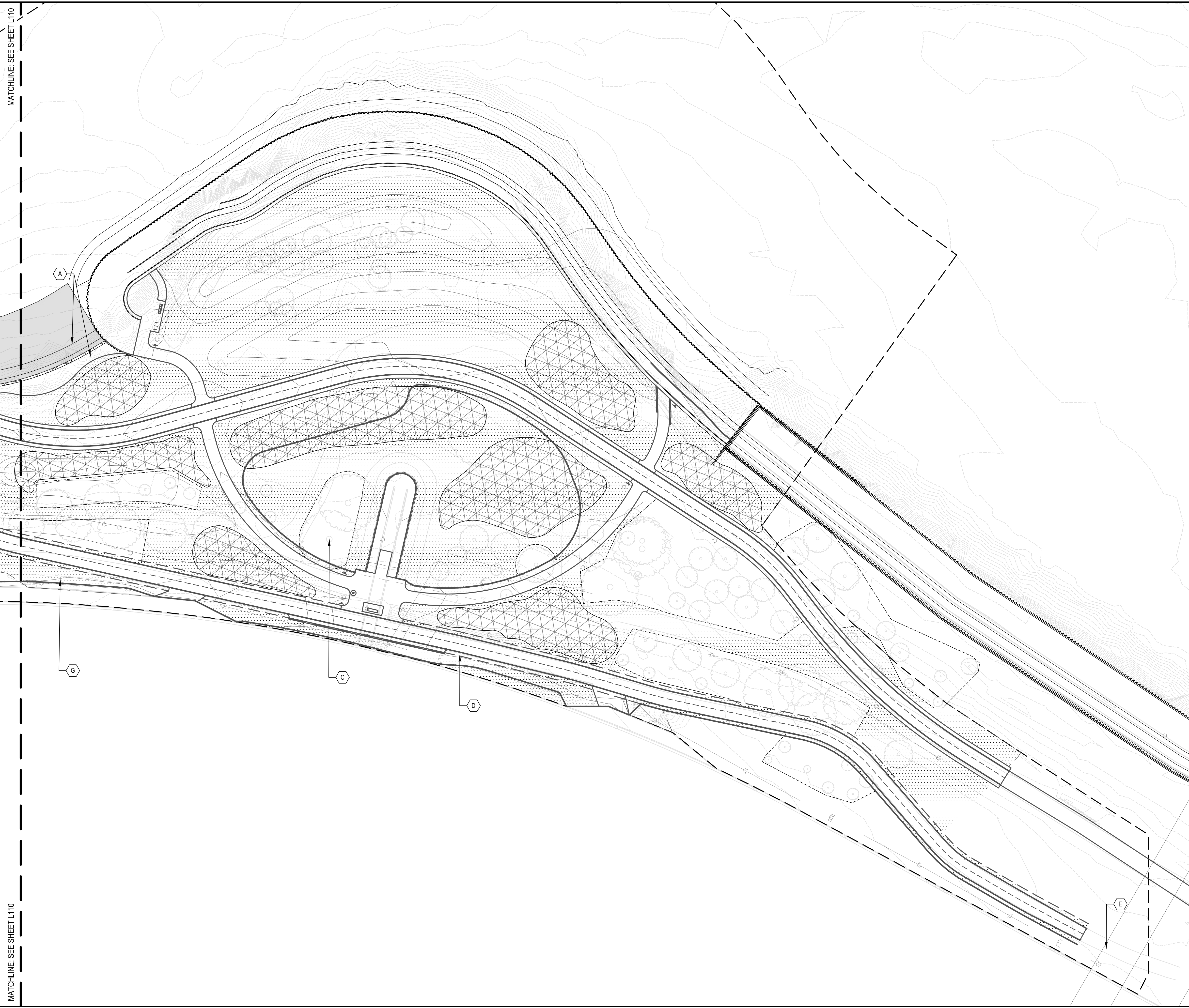
Mark	Description	Date
XX	Initial SHPO Submittal	03/2024

PBC Project Name: Chicago Shoreline Protection Project
 PBC Contract No.: 22703
 Project No.: 13576
 Title:

LANDSCAPING PLAN-E

Sheet **L-110**

FILE: C:\pw_working\wtr\jpollack\0390340\22703-L-111.dwg USER: jpollack DATE: Oct, 04 2023 TIME: 03:52 pm



MATCHLINE: SEE SHEET L110

MATCHLINE: SEE SHEET L110

SHEET NOTES

1. INFORMATION PRESENTED IS BASED ON SURVEY DATED 1998/9, UTILITY INFORMATION FROM THE CONTRACT PLANS FOR IMPROVEMENT OF US ROUTE 41 (SOUTH LAKE SHORE DRIVE) DATED DECEMBER, 2001, AND AERIAL VIEW PHOTOGRAPHY FROM NEARMAP DATED JULY, 2021.
2. ALL INFORMATION IS APPROXIMATE. DRAWINGS ARE NOT FOR CONSTRUCTION.
3. TOPOGRAPHIC INFORMATION IS ASSUMED LOW WATER DATUM (LWD) FOR LAKE MICHIGAN. TO CONVERT TO CHICAGO CITY DATUM (CCD) SUBTRACT 1.145 FEET.
4. SEE GRADING AND UTILITY SHEETS FOR PROPOSED GRADING AND UTILITY WORK.
5. TREE LOCATIONS AND QUANTITY MAY BE ADJUSTED WITH FINAL DESIGN AND GRADING.
6. TREE PRESERVATION AND REMOVAL TO BE DETERMINED AT FINAL DESIGN AND GRADING.
7. ALL SEEDED AREAS TO RECEIVE BLANKET.

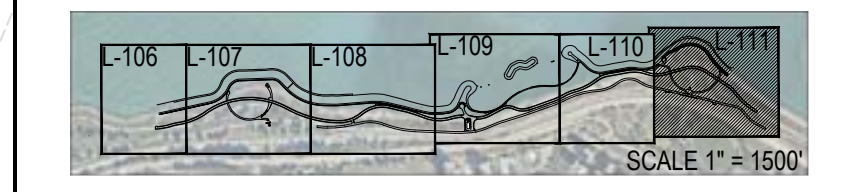
KEYED NOTES

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KEY MAP



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 Chicago, IL

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Thornton Tomasetti
 Chicago, IL

Mark	Description	Date
XX	Initial SHPO Submittal	03/2024

PBC Project Name: Chicago Shoreline Protection Project
 PBC Contract No.: 22703
 Project No.: 13576

Title: **LANDSCAPING PLAN-F**

Sheet

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