# Park Avenue Boat Launch

Highland Park, IL

January 19, 2022 BID DOCUMENTS

SmithGroup Project Number: 13258.00

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#### Prepared for:

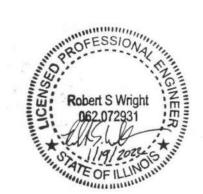
Park District of Highland Park 636 Ridge Road Highland Park, IL 60035



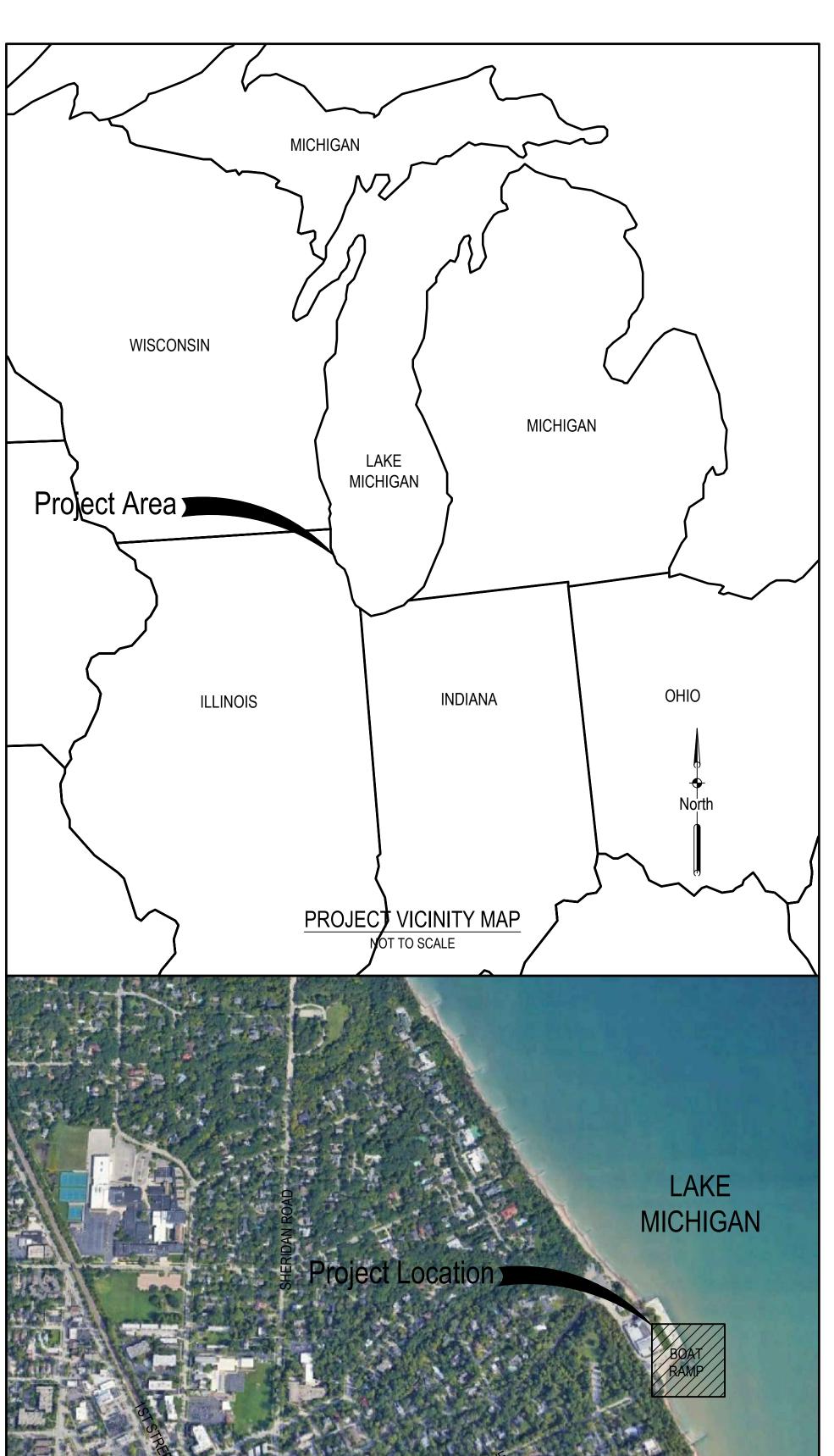
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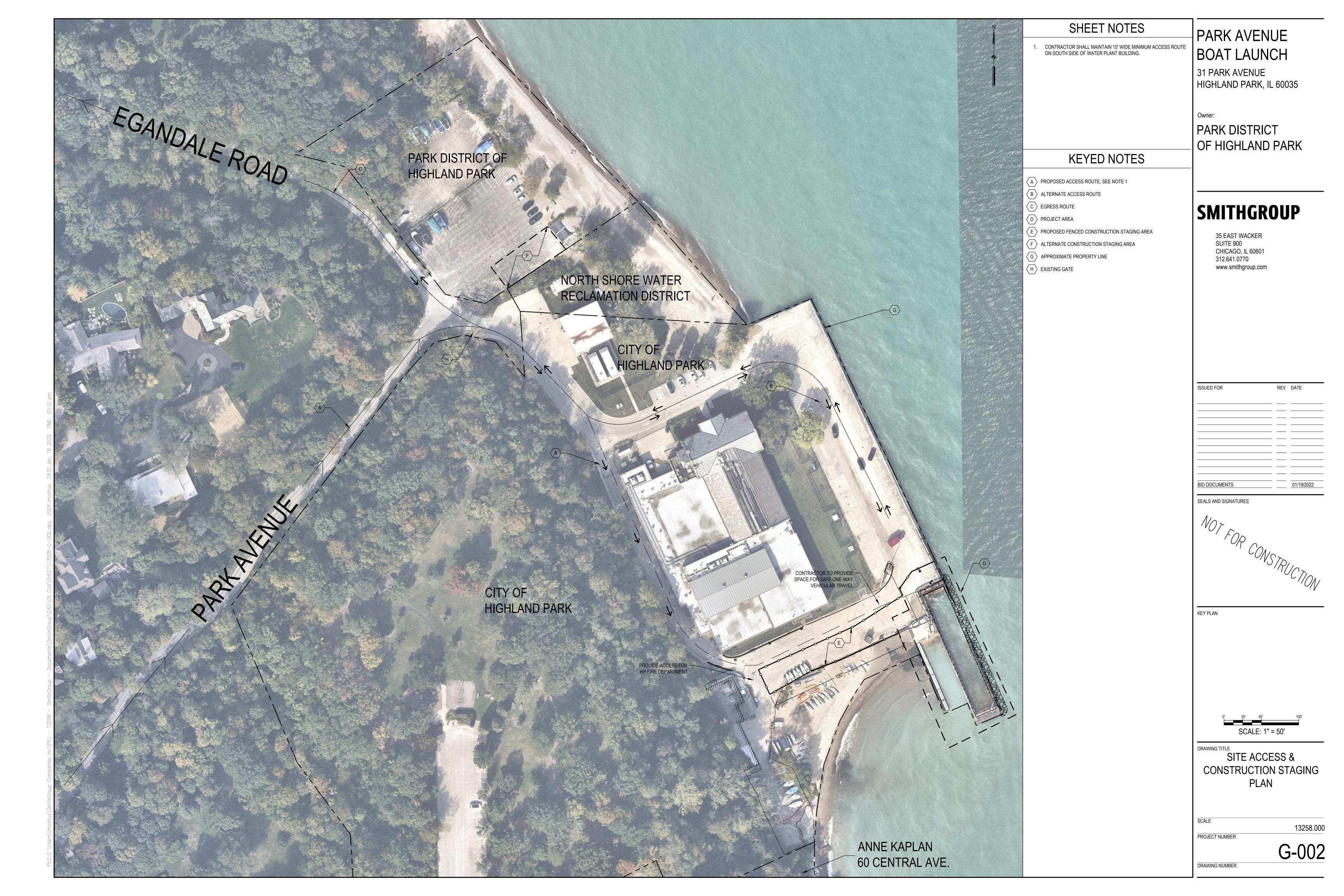
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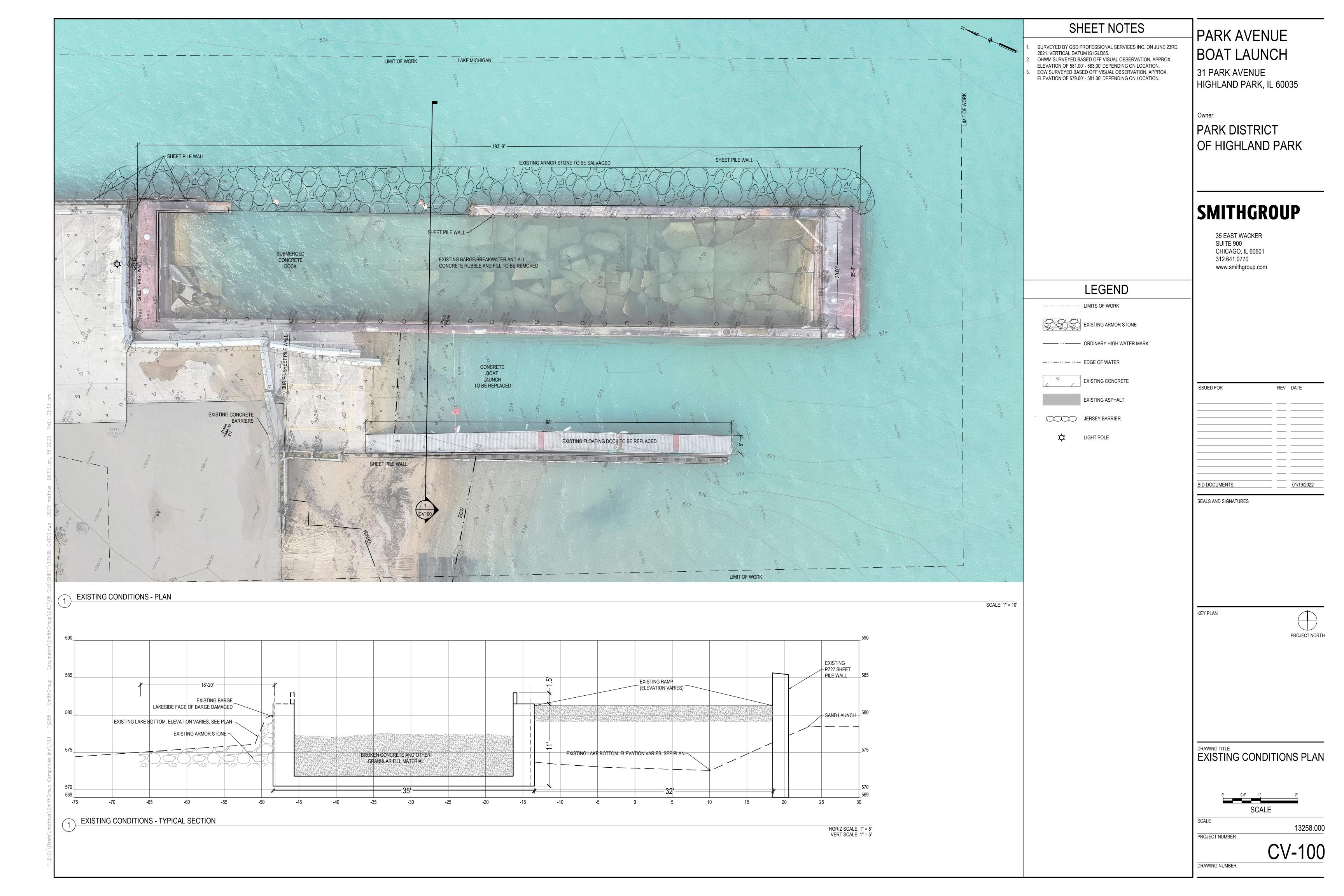
35 EAST WACKER SUITE 900 CHICAGO, IL 60601 312.641.0770 www.smithgroup.com

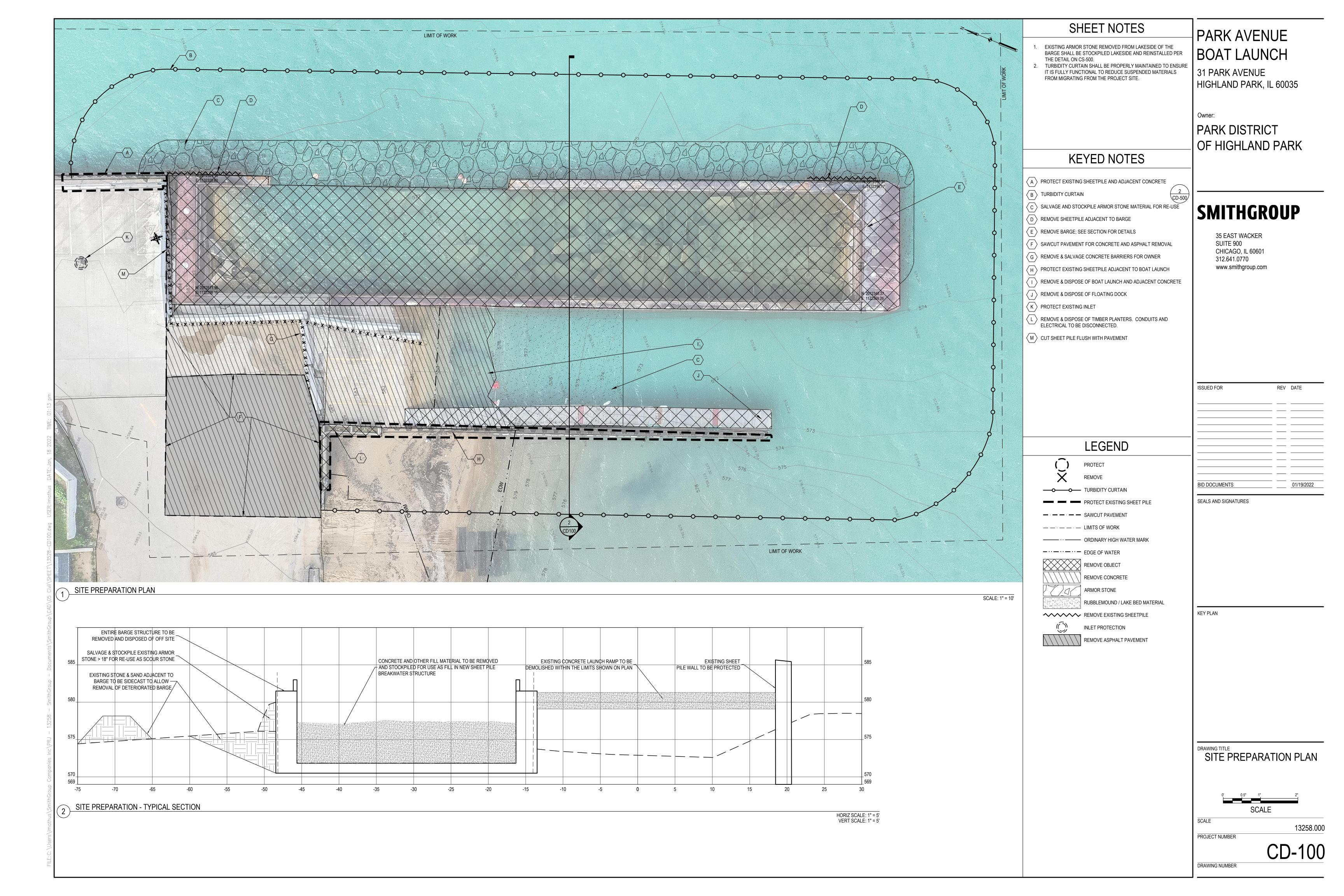


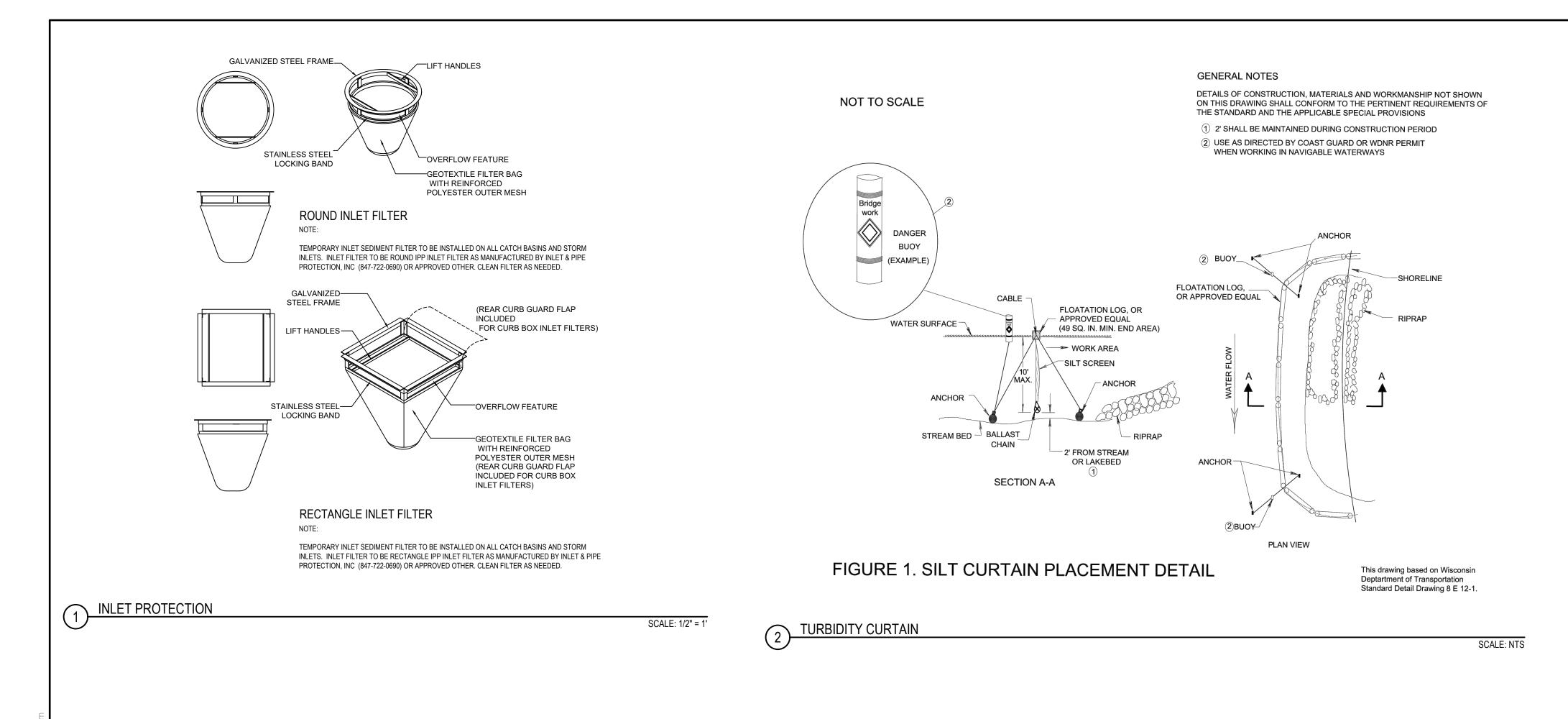












PARK AVENUE BOAT LAUNCH

31 PARK AVENUE HIGHLAND PARK, IL 60035

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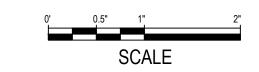
PARK DISTRICT
OF HIGHLAND PARK

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ISSUED FOR	REV	DATE
BID DOCUMENTS		01/19/2022
SEALS AND SIGNATURES		

DRAWING TITLE
SITE PREPARATION DETAILS

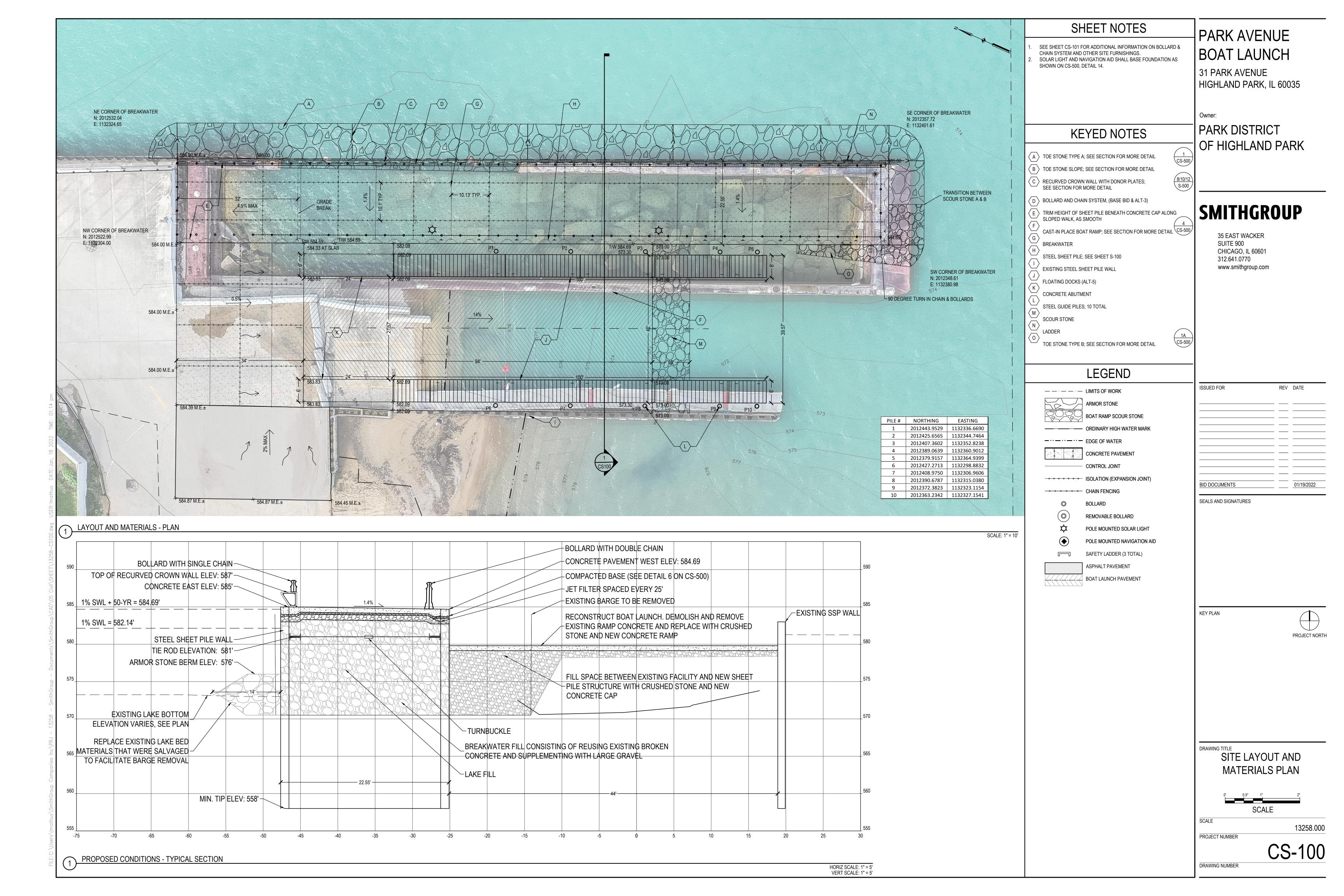


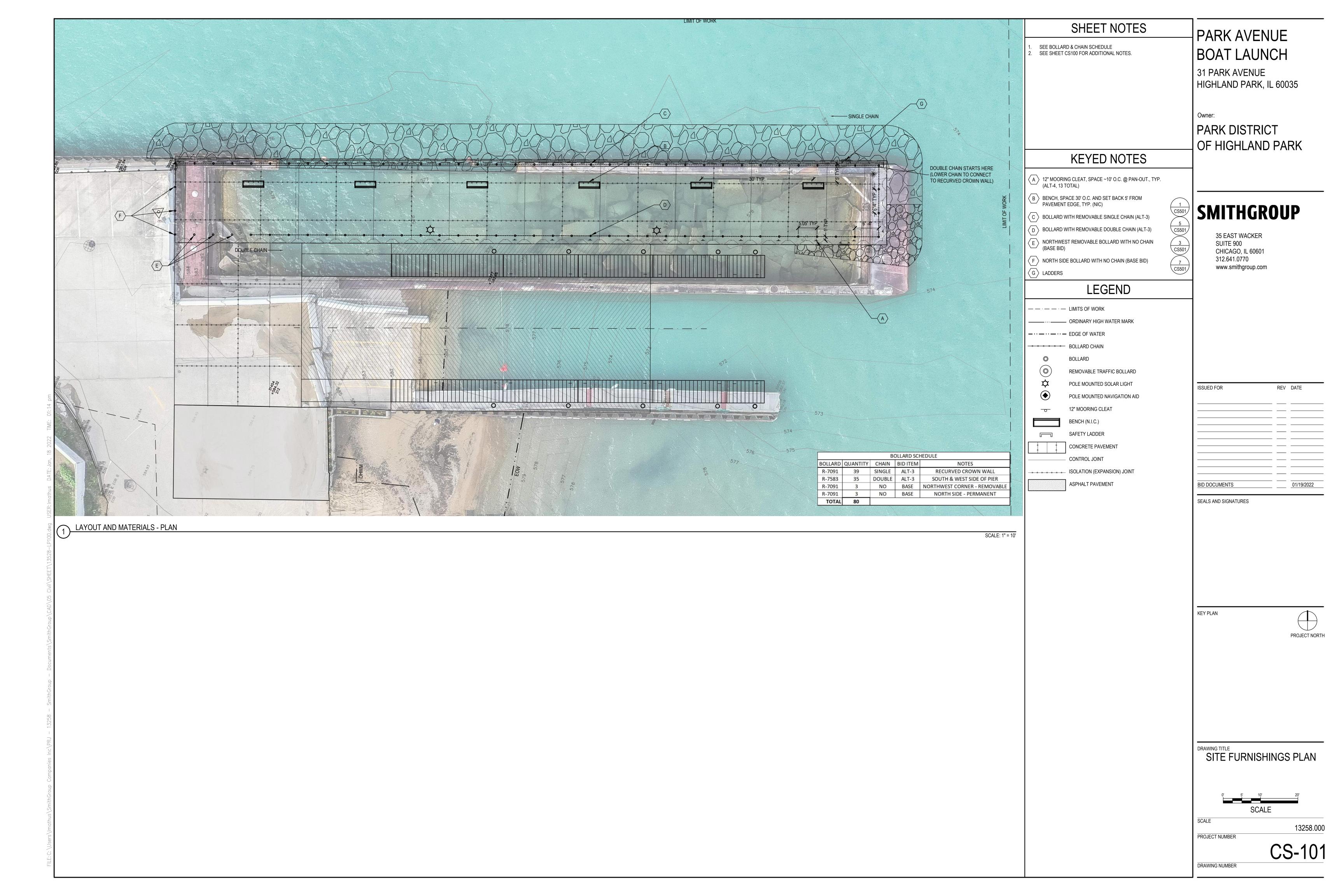
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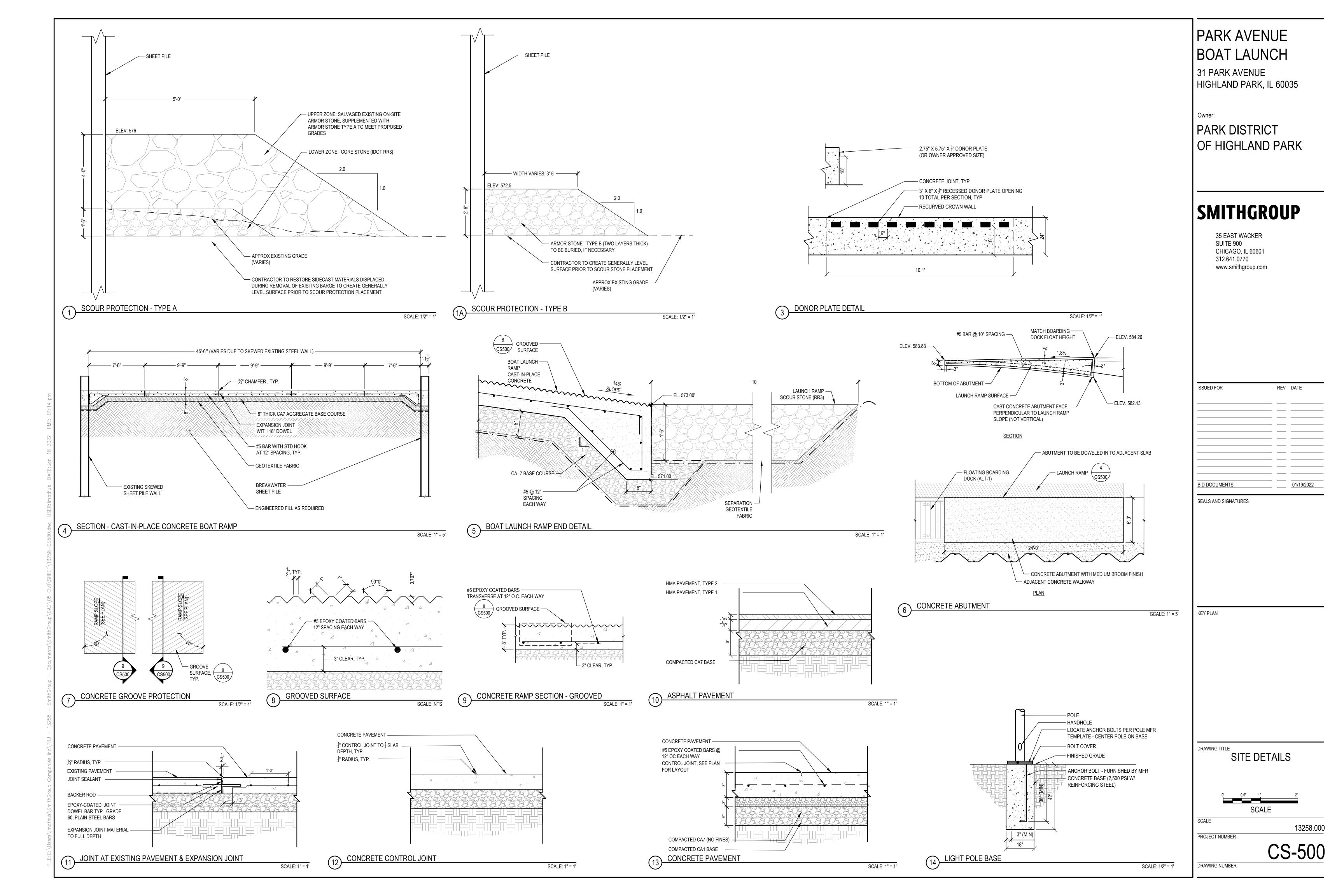
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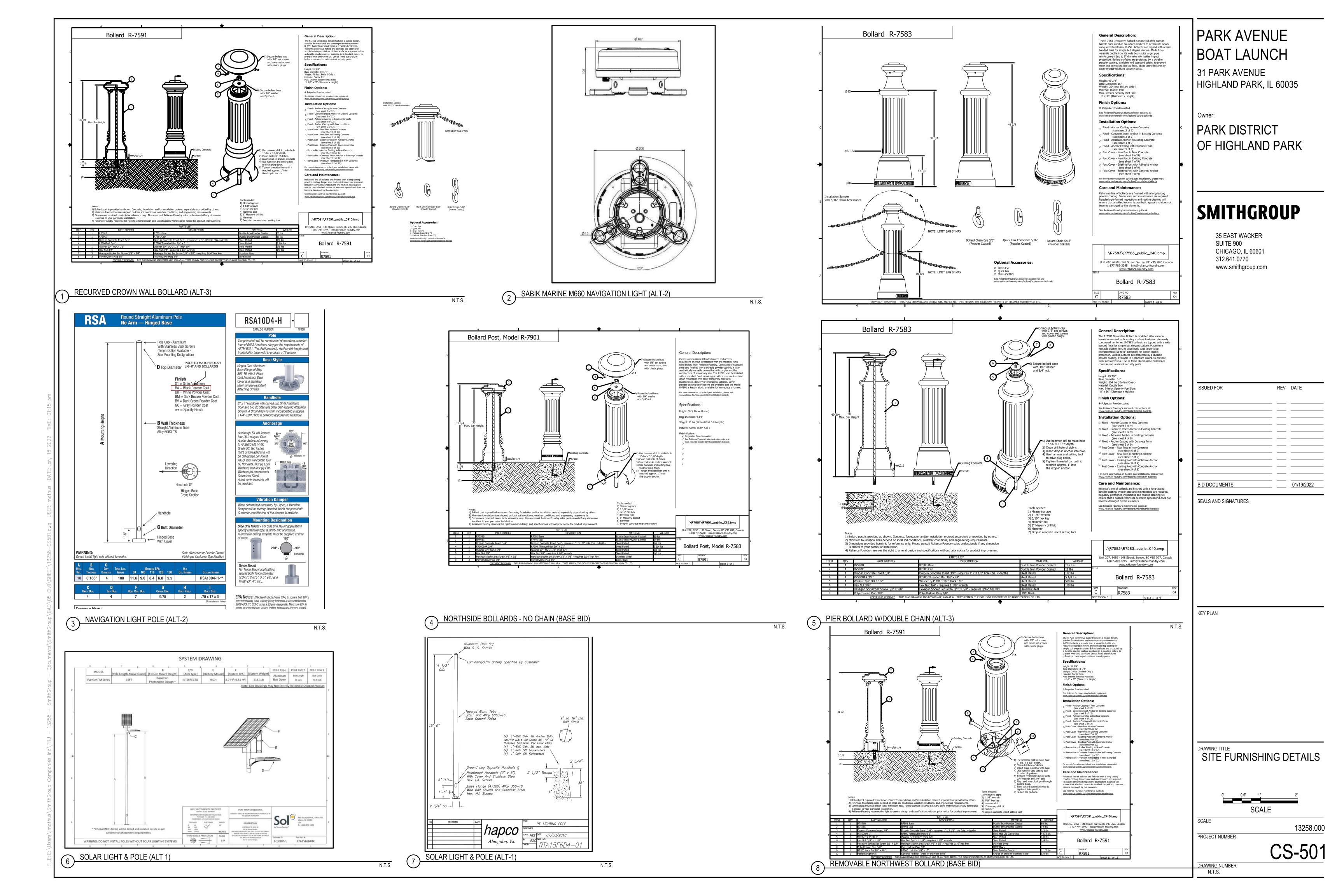
CD-500

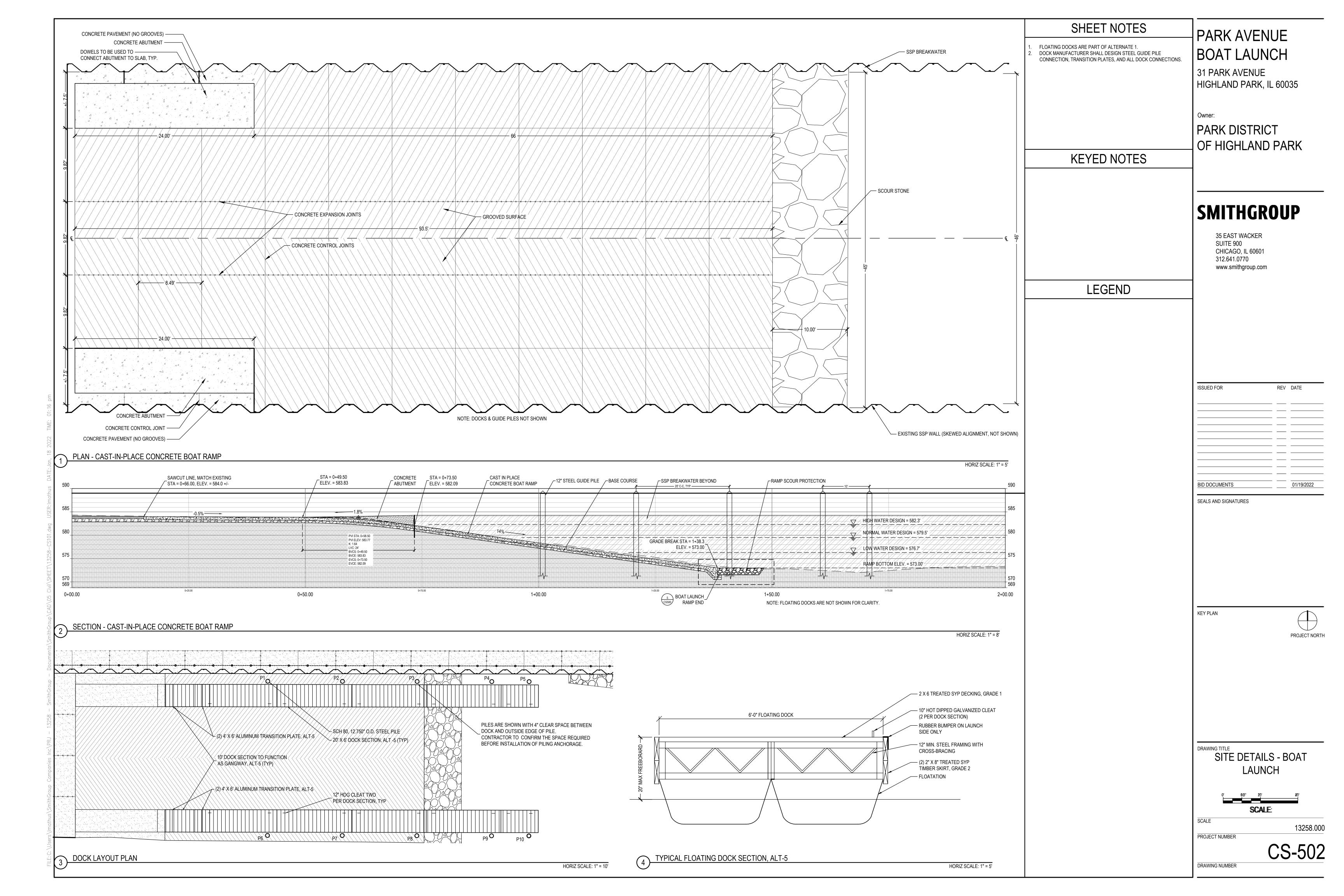
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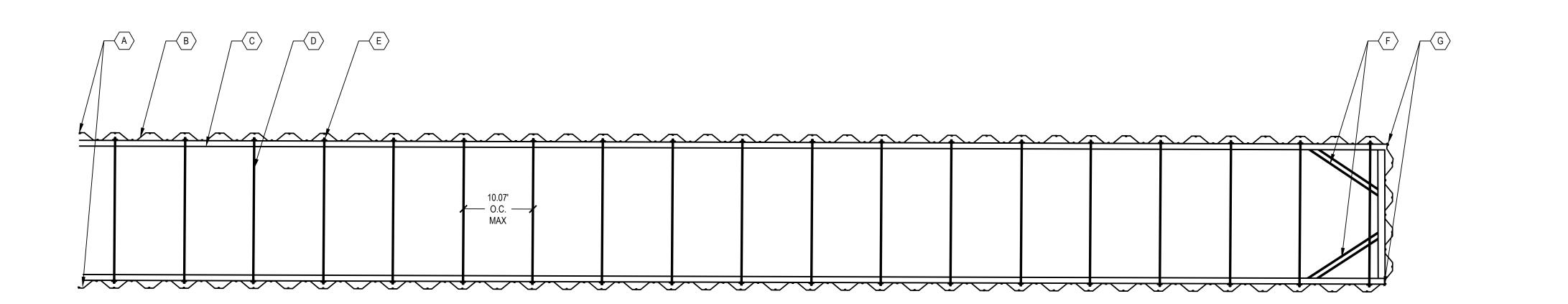












#### SHEET NOTES PARK AVENUE IN PROGRESS BOAT LAUNCH 31 PARK AVENUE HIGHLAND PARK, IL 60035 Owner: PARK DISTRICT OF HIGHLAND PARK **KEYED NOTES** A SECURE PROPOSED SHEET PILE TO EXISTING CONCRETE/SHEETPILE WITH ANGLE AND CORNER PILE (NUCOR SKYLINE E22 OR APPROVED EQUAL). B SHEET PILE (NUCOR SKYLINE NZ14 OR APPROVED **SMITHGROUP** 2/5 S-500 C WALER; SEE DETAIL SHEET 35 EAST WACKER SUITE 900 D TIE ROD; SEE DETAIL SHEET CHICAGO, IL 60601 312.641.0770 E ALIGN TIE RODS WITH CENTER OF BELLY-OUT SHEET PILE, 10.07' O.C. MAX www.smithgroup.com (4 S-500) F CROSS BRACE G CORNER PILE (NUCOR SKYLINE LARSEN T OR APPROVED EQUAL) ISSUED FOR REV DATE LEGEND ---- LIMITS OF WORK ARMOR STONE SCOUR STONE BID DOCUMENTS ------ EDGE OF WATER SEALS AND SIGNATURES -··- ORDINARY HIGH WATER MARK

NOTES:

- 1. EXTREME CARE SHOULD BE TAKEN NOT TO DAMAGE EXISTING STEEL SHEET PILE WALLS. ANY OBSERVATION OF MOVEMENT OF EXISTING WALL SECTION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
- CONTRACTOR TO FIELD VERIFY EXISTING SHEET PILE DIMENSIONS.
- 3. REVETMENT IN FRONT OF EXISTING BARGE SHALL BE SALVAGED AND PLACED PER DETAIL. 4. SEE ECS GEOTECHNICAL DATA DATED JULY 18, 2018.
- 5. APPROXIMATE ELEVATIONS ARE SHOWN. FIELD VERIFICATION IS REQUIRED BY CONTRACTOR.
- 6. ALL CONCRETE SHALL CONFORM TO THE FOLLOWING: 6.1. COMPRESSIVE STRENGTH AT 28 DAYS = 4,500 PSI
- 6.2. MAXIMUM AGGREGATE SIZE =  $\frac{3}{4}$  INCH
- 6.3. PORTLAND CEMENT TYPE 1 ASTM C150 6.4. MAXIMUM WATER / CEMENT RATIO = 0.45
- 6.5. AIR CONTENT = 6 PERCENT ±1.5
- 6.6. SLUMP = 3 INCHES ±1 INCH
- 7. ALL CAP REINFORCING SHALL BE EPOXY COATED, INCLUDING DOWELS, AND CONFORM TO ASTM A775, GRADE 60. STEEL REBAR SHALL COMPLY WITH ASTM A615 AND A706 GRADE 60.
- 9. REINFORCING BARS, BAR DOWELS, THREADED RODS, BOLTS, ETC. WHICH ARE INDICATED TO BE DOWELED OR ADHESIVE ANCHORED INTO CONCRETE SHALL BE ICC-ES APPROVED HILTI HIT-RE 500 V3 ADHESIVE ANCHORS, OR ICC-ES APPROVED EQUIVALENT.
- 10. DEFORMED BAR ANCHORS (DBA) SHALL COMPLY WITH ASTM 1064.
- 11. COMPLY WITH AWS D1.1 STRUCTURAL WELDING CODE WITH THE EXCEPTION AS LISTED IN AISC 360-05 SPECIFICATION SECTION 12, APPLY IN LIEU OF AWS PROVISIONS.
- 12. WELDING STRENGTH (FEXX) = 70KSI. 13. ALL STEEL SHALL CONFORM TO THE FOLLOWING UNLESS OTHERWISE NOTED:
- 13.1. PLATES, ANGLES ASTM A36 13.2. CHANNELS A572 GRADE 50
- 13.3. CASING PIPE ASTM A53, A500, OR A1085
- 13.4. SHEET PILES ASTM A572 GRADE 60 13.5. STEEL PIPE PILES ASTM A252 GRADE 3
- 13.6. HEADED STUDS ASTM A108 13.7. TIE RODS ASTM A615 GRADE 80
- 13.8. THREADED RODS ASTM F1554 GRADE 105
- 14. WEATHERING STEEL A588 TO BE USED FOR STEEL MEMBERS.
- 15. BOLTS FOR STRUCTURAL STEEL CONNECTIONS SHALL BE  $\frac{3}{4}$ " A325 UON. 16. SOLAR LIGHT POLE FOUNDATION DESIGN IS BASED ON 6" DIAMETER POST AT 15' HEIGHT FROM THE GROUND. TOTAL POLE HEIGHT SHALL BE 20' OR LESS. CONTRACTOR SHALL CONSULT THE ENGINEER IF ANY OF THE MENTIONED
- PARAMETERS IS DIFFERENT THAN INSTALLED FLAG POLE. 17. TIE ROD TO BE COATED WITH COAL TAR EPOXY AND ENCASED IN PVC SLEEVE. COAT TURNBUCKLE AND ENCASE PVC AFTER TIGHTENING.
- 18. CONTRACTOR TO DRIVE PIPE PILES TO THE SPECIFIED ELEVATION AND CONFIRM MINIMUM BEARING CAPACITY IN ACCORDANCE WITH THE MODIFIED GATE DYNAMIC FORMULA.
- 19. PLACE BACKFILL AND FILL SOIL MATERIALS IN LAYERS NOT MORE THAN 8 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT AND NOT MORE THAN 4 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HAND-OPERATED TAMPERS.
- 20. COMPACT SOIL MATERIALS TO NOT LESS THAN 95 PERCENT OF MAXIMUM DRY UNIT WEIGHT.
- 21. SPECIAL SHEET PILE CONNECTOR TO BE USED AT CORNERS AND WHERE CONNECTING TO EXISTING WALLS TO ENSURE SHEET PILE CONTINUITY.
- 22. PIPE PILE CAPACTIY REQUIRED: 50 KIPS COMPRESSION (FOS 2.0), 60 KIPS TENSION (FOS 6.0). PILE CAPACITY SHALL BE VERIFIED BY PILE LOAD TESTS, DYNAMIC MEASUREMENTS OF INSTRUMENTED PILES OR SIMILAR METHODS.

KEY PLAN

SHEET PILE & TIE BACK



PROJECT NUMBER

DRAWING NUMBER

SCALE

13258.000

