



United States Department of the Interior

NATIONAL PARK SERVICE
Interior Region 1- National Capital Area
1100 Ohio Drive, S.W.
Washington, D.C. 20242

IN REPLY REFER TO:

April 15, 2020

Tom Luebke
Secretary
Commission of Fine Arts
401 F Street, N.W., Suite 312
Washington, D.C. 20001

RE: Floating Kayak and Canoe Launch Adjacent to the 34th Street NW Pedestrian Bridge in Georgetown (Reservation 404; Square 1184, Lots 49 and 840)

Dear Mr. Luebke:

The National Park Service, in partnership with Georgetown Heritage and the Georgetown Business Improvement District, seeks concept review approval from the Old Georgetown Board and the Commission of Fine Arts during May meets for a floating kayak and canoe launch project.

The project will be located adjacent to the 34th Street NW pedestrian bridge in Georgetown. The launch will be constructed within the Chesapeake and Ohio Canal National Historical Park (C&O Canal NHP) prism and adjacent to private property at 333 K Street. In keeping with the historic nature of the C&O Canal NHP and the neighborhood, the dock and launch structures will be minimal in size and finished with faux-wood composite decks. The launch will measure 18'x 6' with a 30'x 4' aluminum gangway leading to the 20'x8' dock. A timber launch structure connecting with the shoulder of the prism will push the dock about 6 feet into the canal off the side wall. The launch will rest on a precast concrete block in the prism and a permanent concrete footer excavated into the earthen path along the south shoulder of the prism. This earthen path is often mistaken as the towpath, which was historically situated on the north side of the prism in this section of Georgetown.

Should you require additional information, please feel free to contact me at (202) 438-0028 or tammy_stidham@nps.gov.

Sincerely,

Tammy Stidham
Deputy Associate Area Director, Lands and Planning

GEORGETOWN FLOATING KAYAK AND CANOE LAUNCH PROJECT

MAPS AND GRAPHICS

**NATIONAL PARK SERVICE
CHESEAPEAKE AND OHIO CANAL NATIONAL HISTORICAL PARK
15APRIL2021**

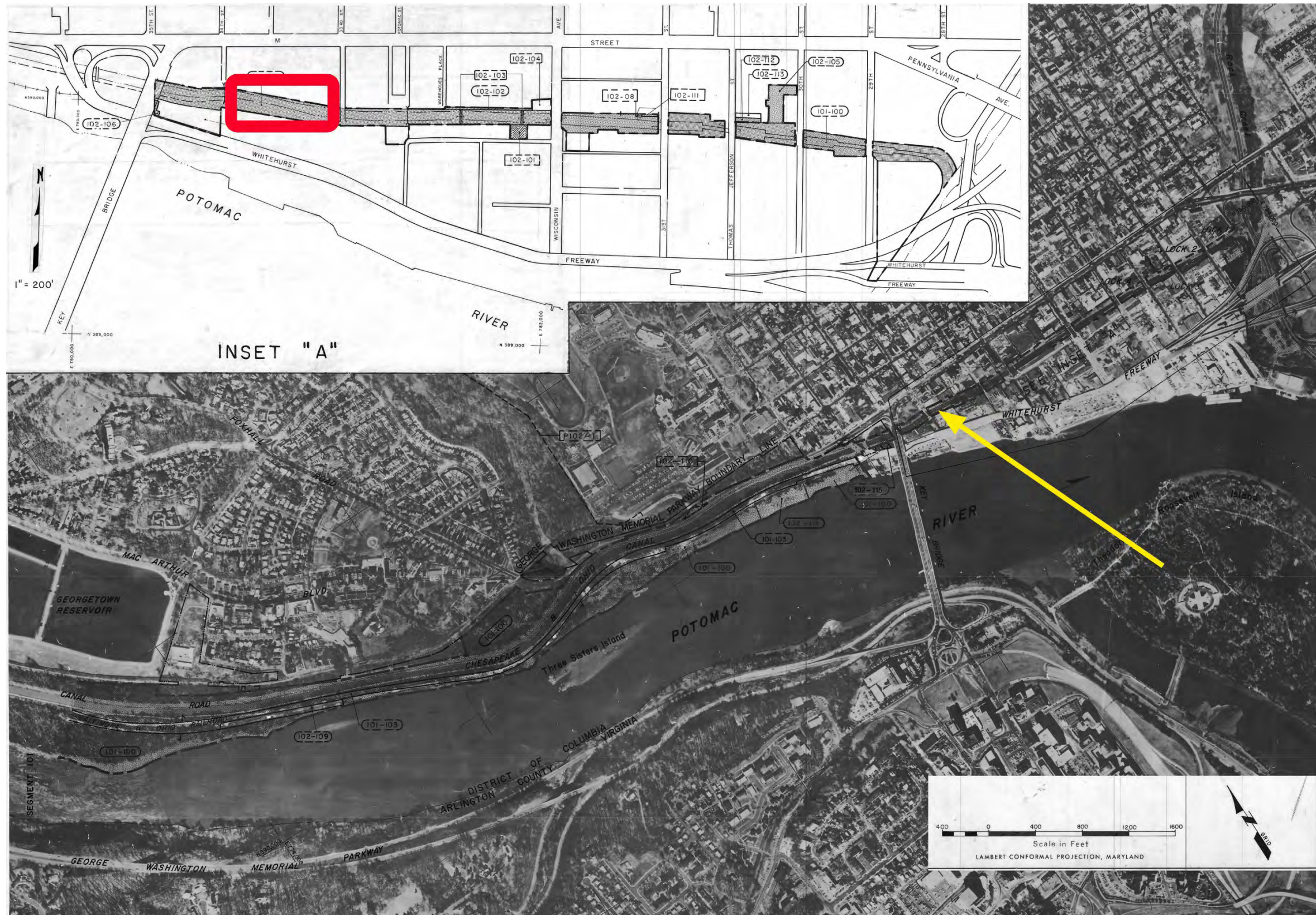


Figure 1: C&O Canal NHP Segment Map 102 showing the project location as indicated by the yellow arrow on the aerial imagery and the red rectangle on the inset map of Georgetown.

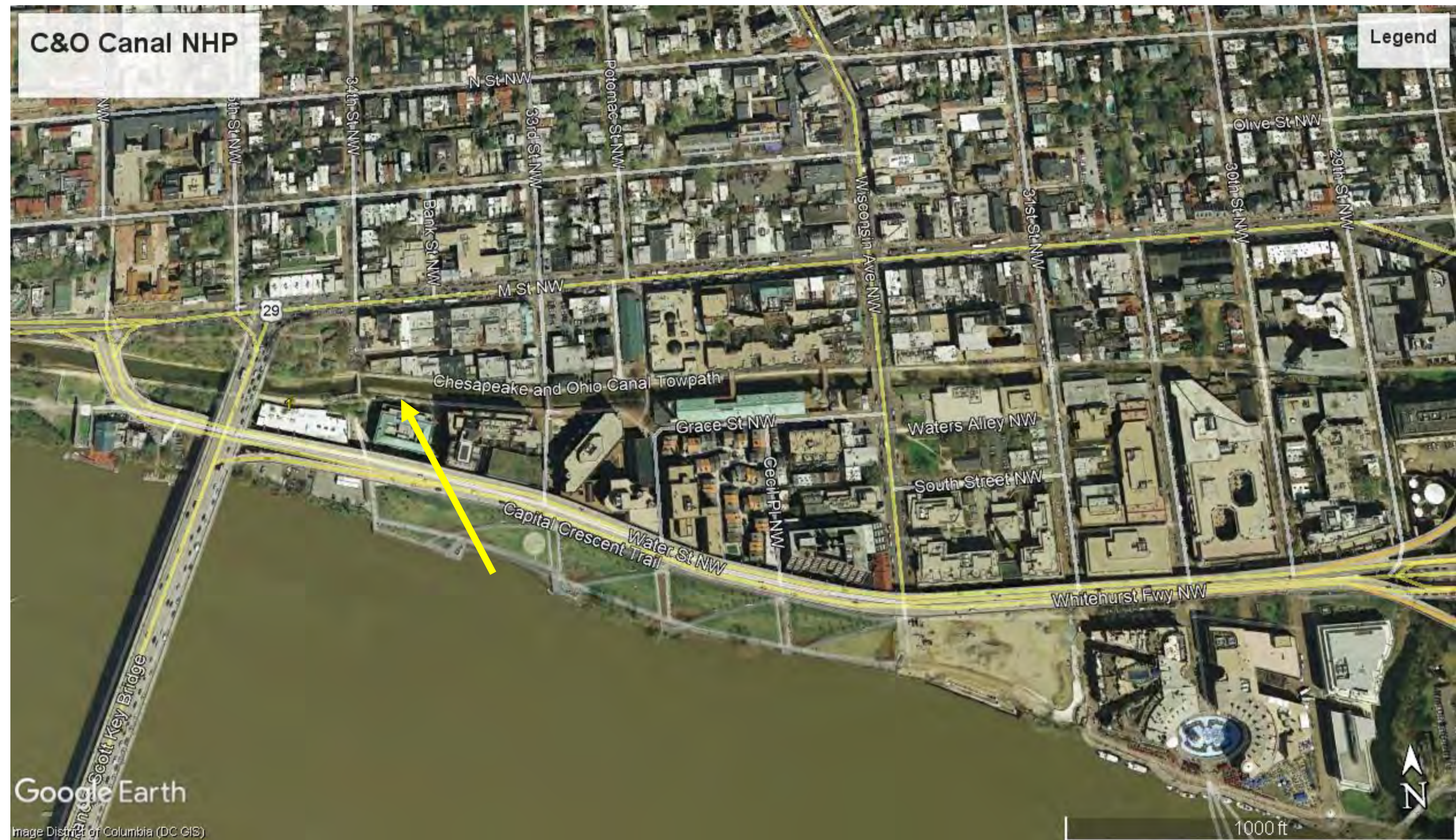


Figure 2: Aerial image of Georgetown highlighting the project location as indicated by the arrow just north of the building at 333 K Street NW.

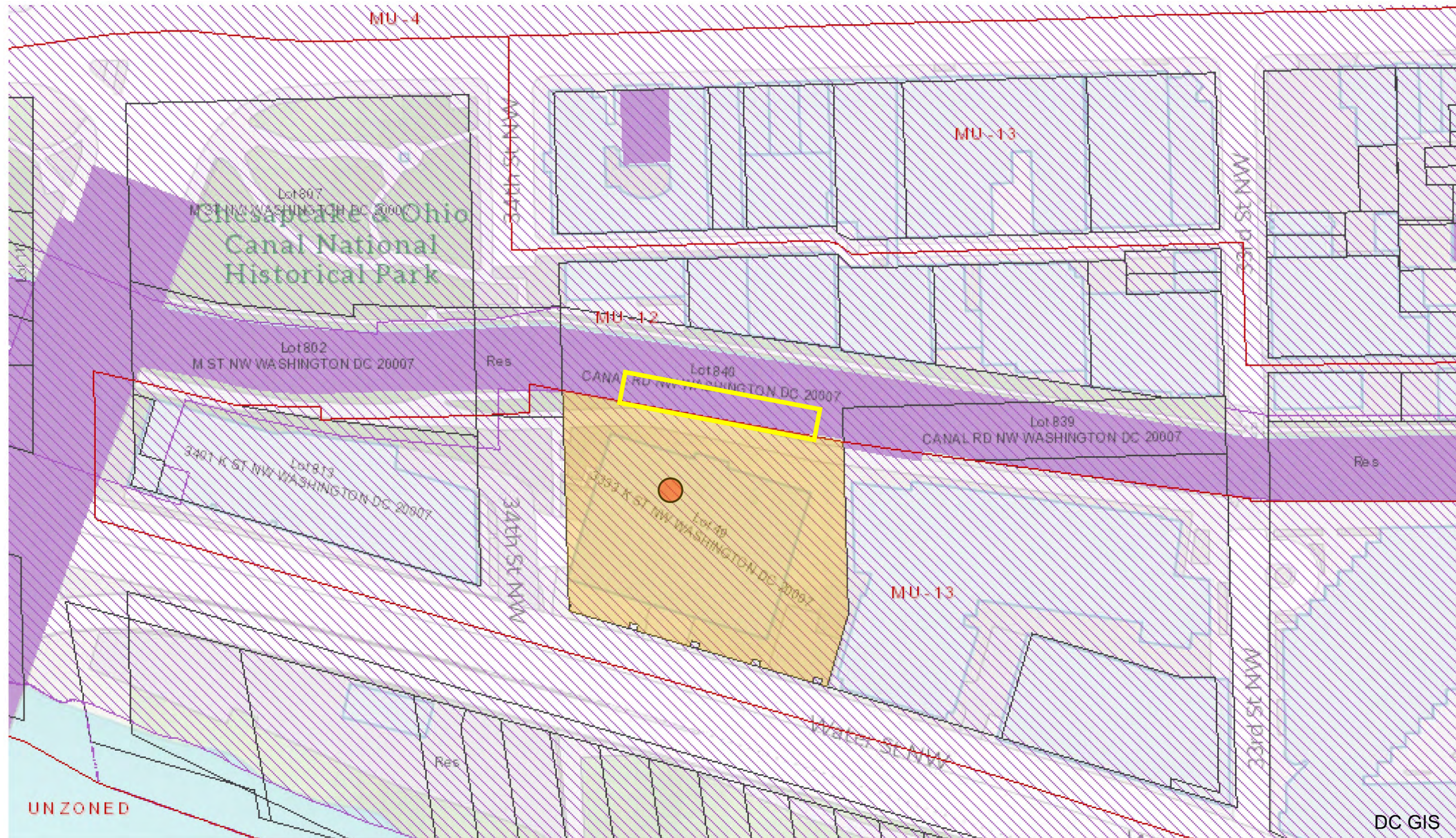


Figure 3: PropertyQuest map of the project location. Square 1184, Lot 0049, with the building at 333 K Street NW, is highlighted in light orange. The approximate position of the proposed dock is indicated by the yellow rectangle.



Figure 4: View of the project location looking west with the 34th Street NW bridge visible in the background. The earthen path, often misinterpreted as the towpath, and wooden wharf are privately owned.



Figure 5: View looking southeast towards the project location as seen from the towpath with 333 K Street NW in the background. The yellow arrow indicates where the launch will be attached to Lot 0049.

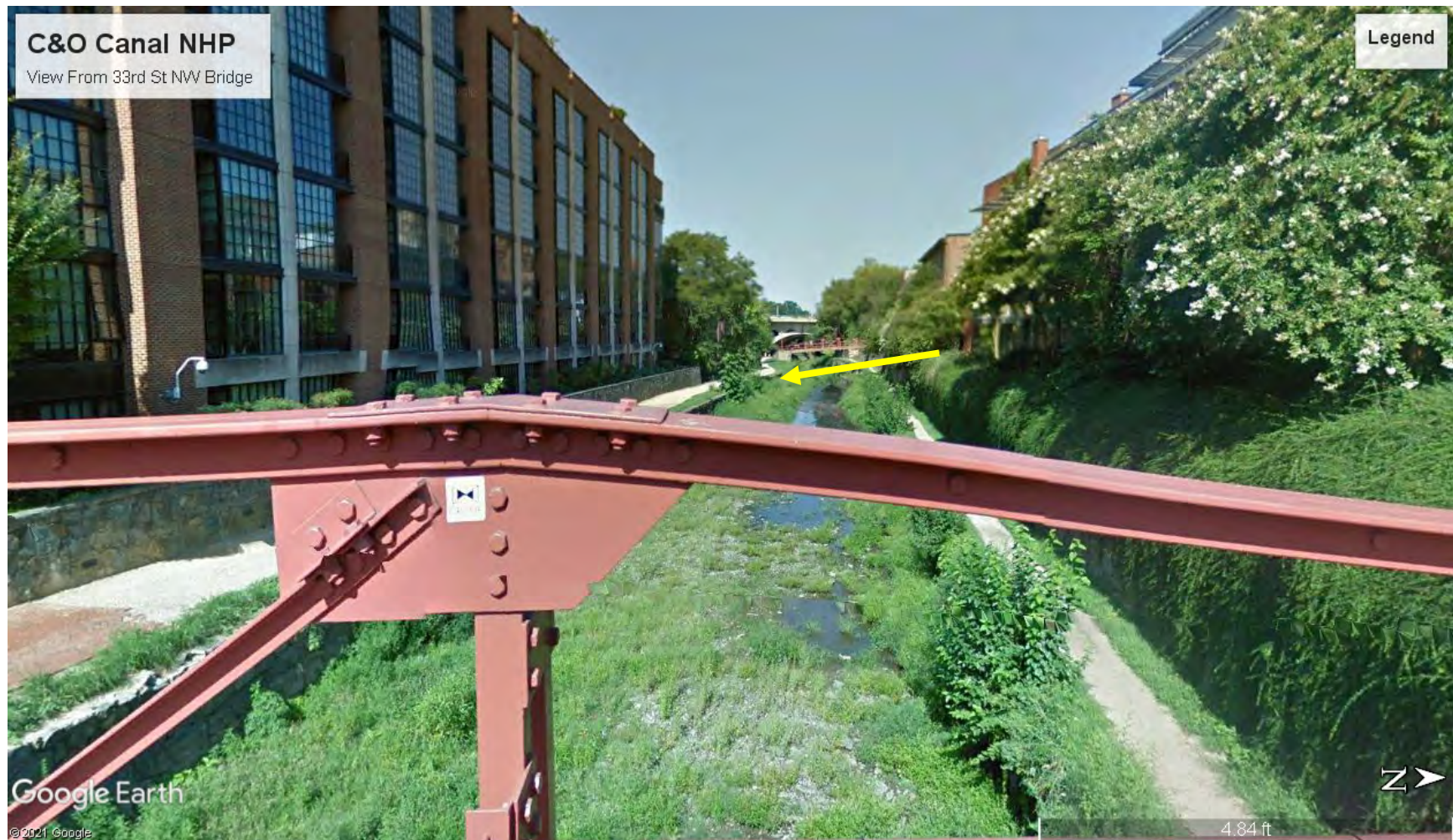


Figure 6: Google Earth view of the canal looking west as seen from the 33rd Street NW bridge. The proposed dock would be located approximately where the arrow is pointing.



Figure 7: Google Earth view of the canal looking east towards the project area as seen from the 34th Street NW bridge.

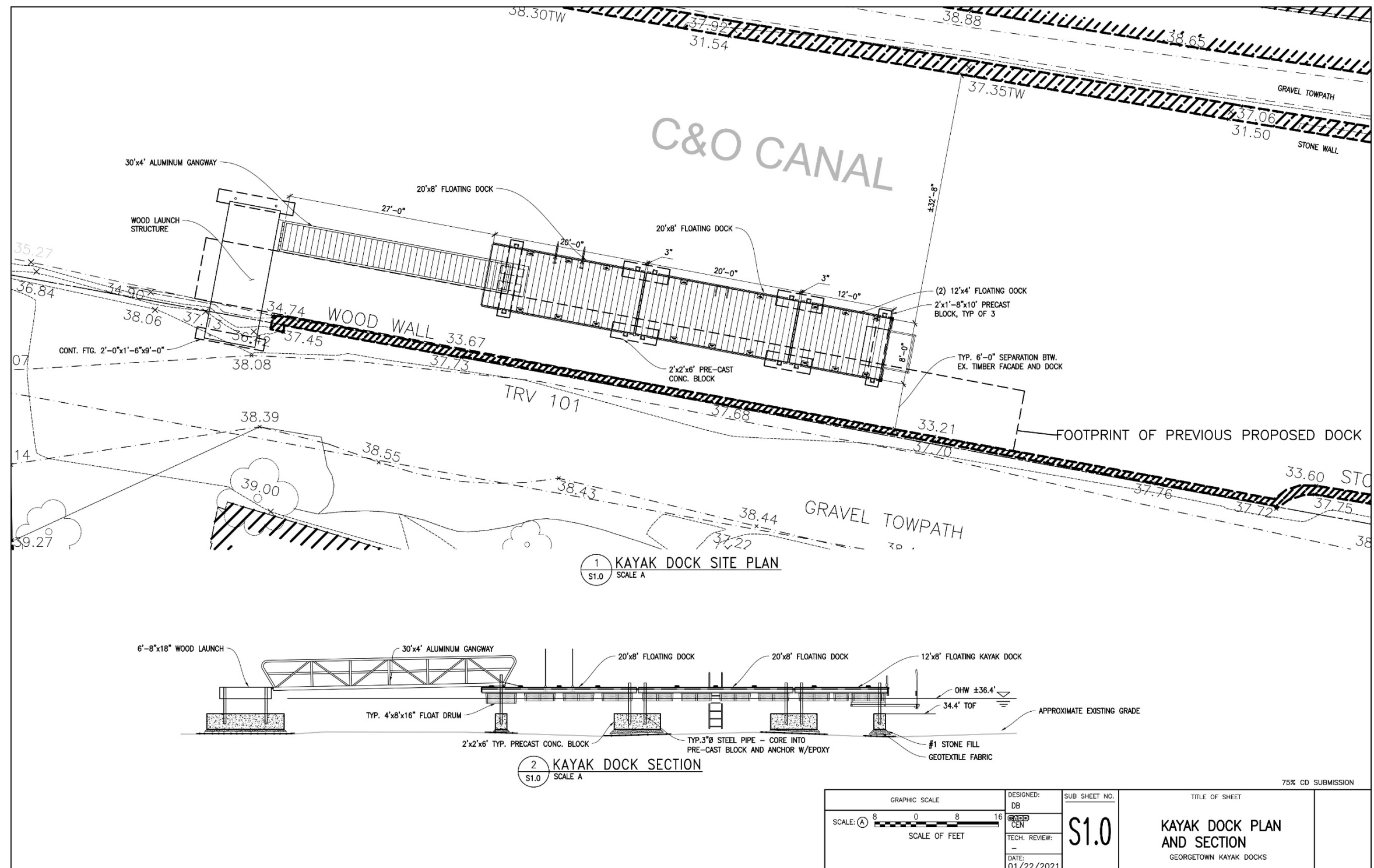


Figure 8: Sheet 1 of the construction design showing the proposed dock in plan and section view for reference.

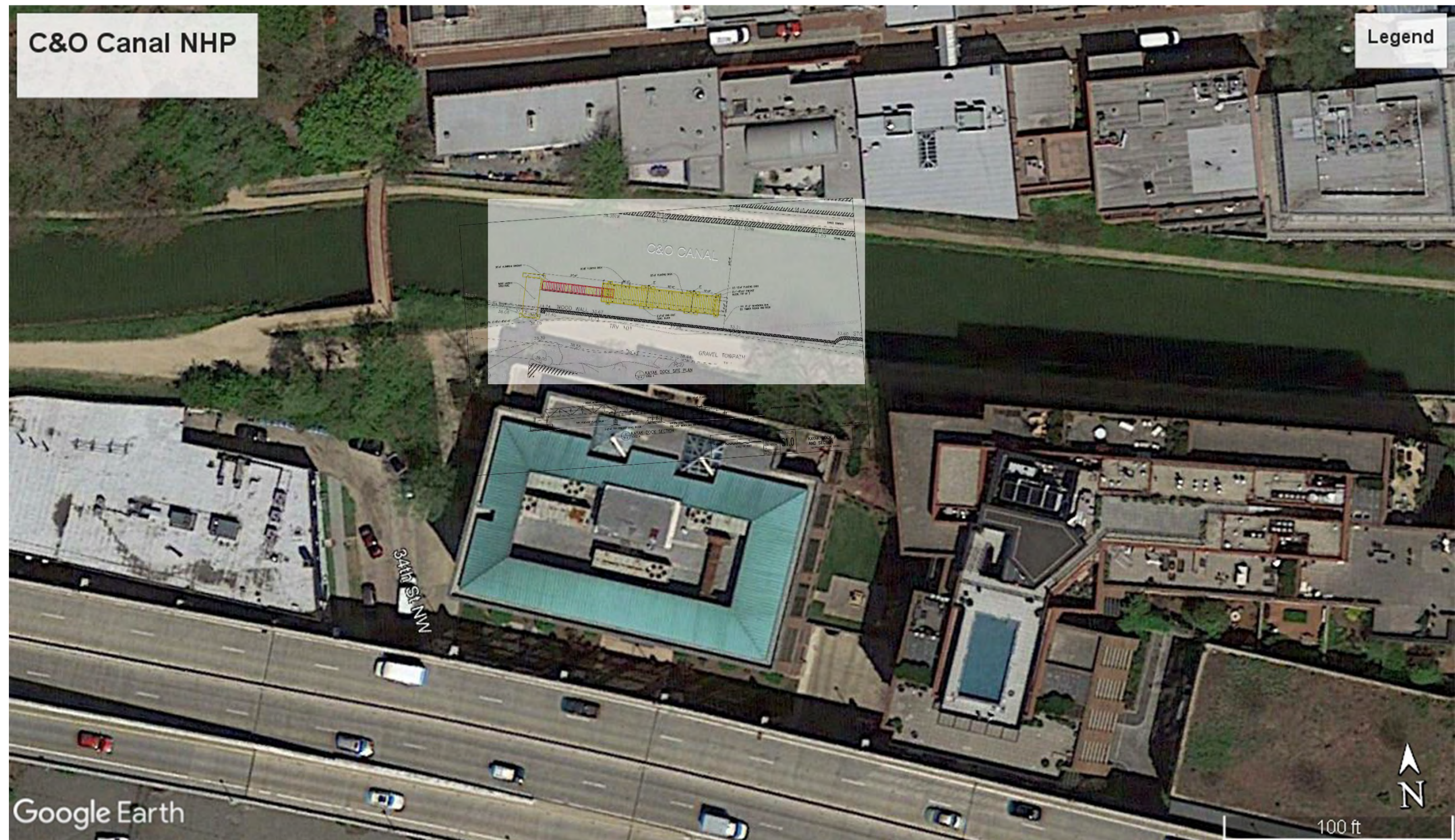


Figure 9: Scaled overlay of the dock design onto an aerial of the canal.

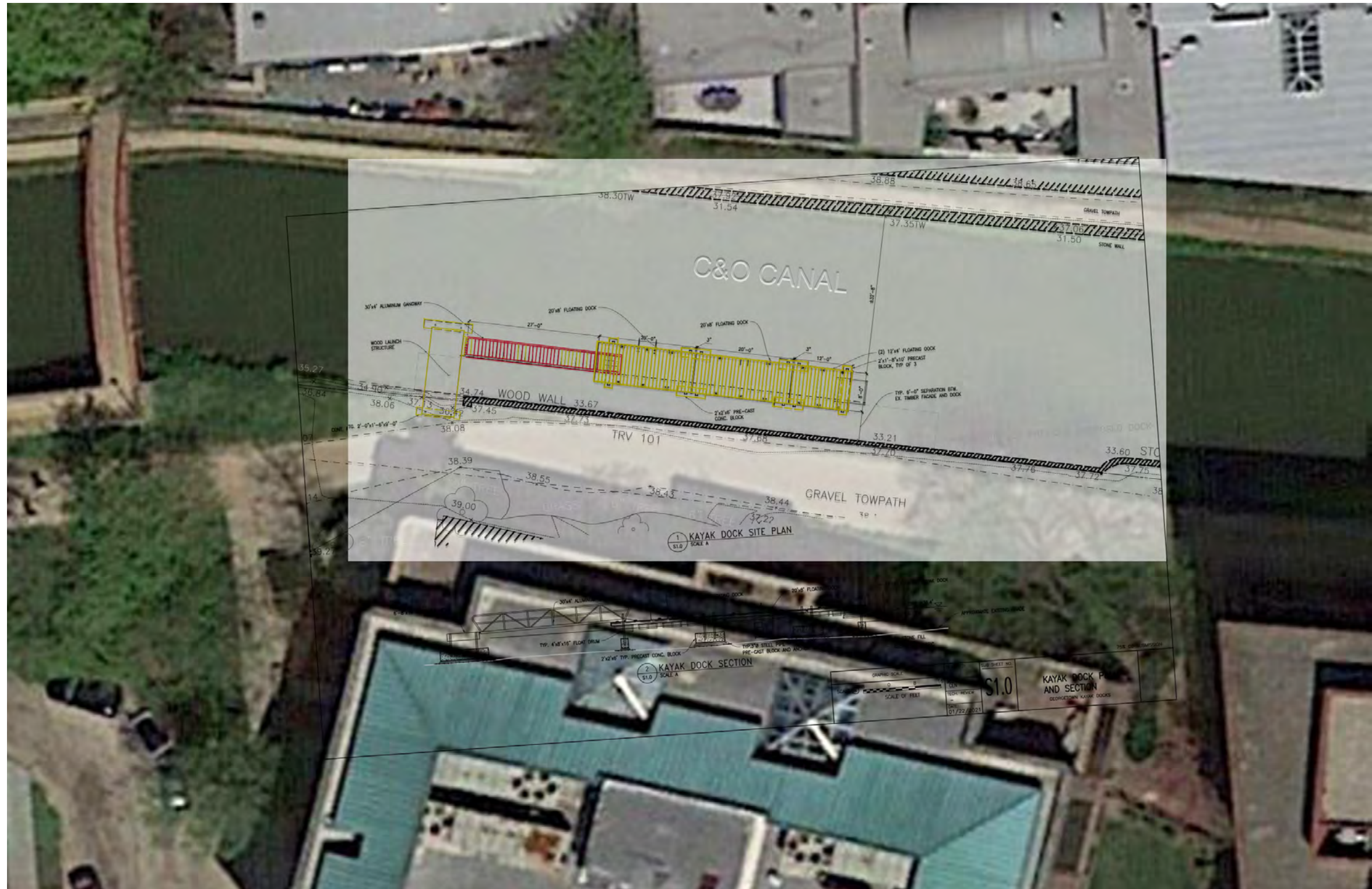


Figure 10: Detail of the overlay showing the extent of the proposed dock in relation to the canal and adjacent structures.



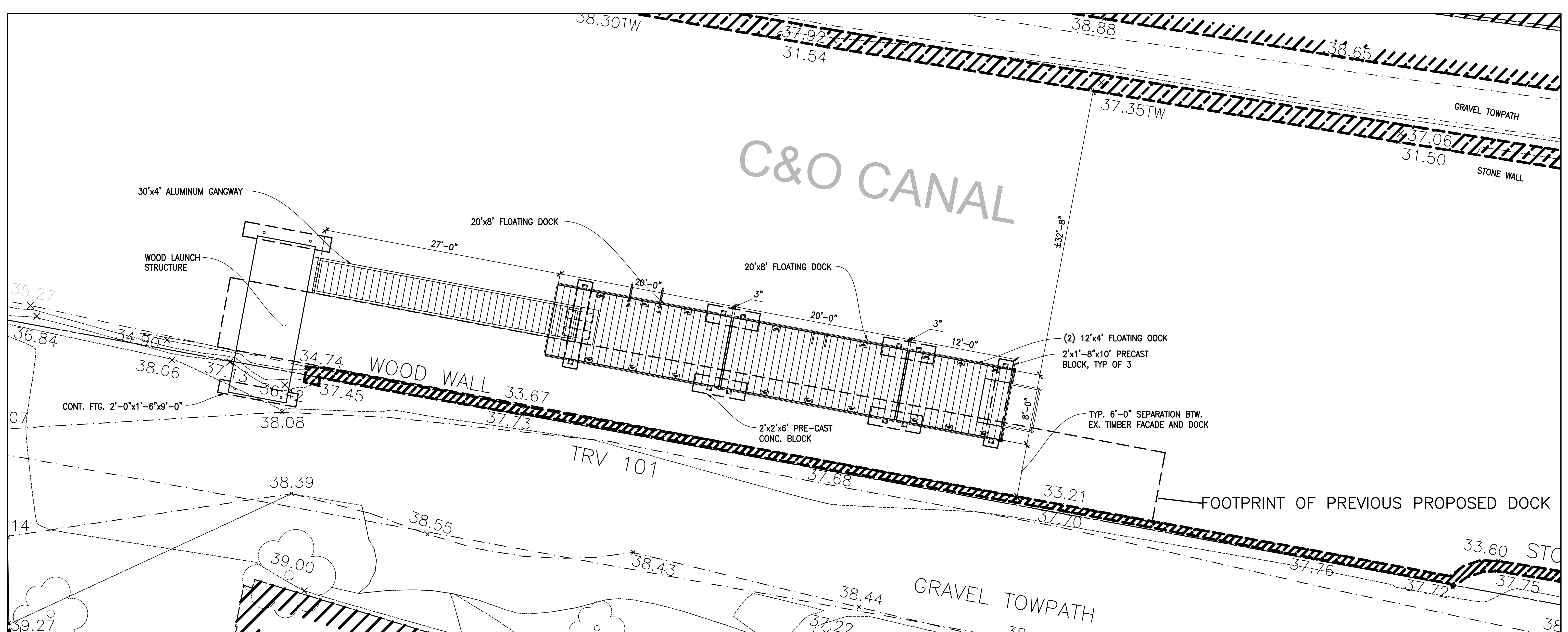
Figure 11: Example of the proposed dock, complete with edge trim and galvanized cleats.



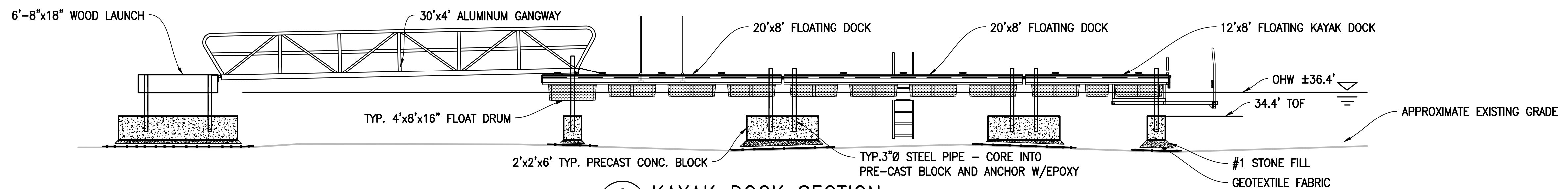
Figure 12: Composite decking in this color or a closely matching available color from Azek is proposed for the launch and dock surfaces.



Figure 13: Example of the gangway design proposed for the project. This gangway, although shorter than that needed for Georgetown, is employed at multiple locations throughout the park.



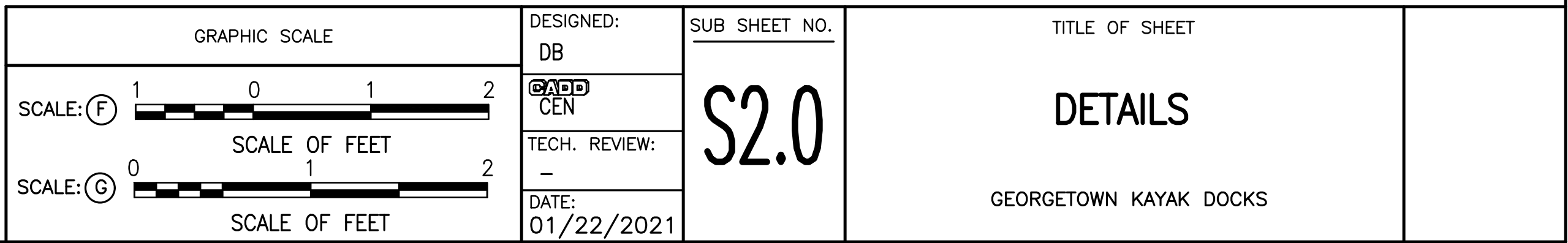
1 KAYAK DOCK SITE PLAN
SCALE A



2 KAYAK DOCK SECTION
SCALE A

75% CD SUBMISSION

GRAPHIC SCALE SCALE: (A) 8 0 8 16 SCALE OF FEET	DESIGNED: DB	SUB SHEET NO. S1.0	TITLE OF SHEET KAYAK DOCK PLAN AND SECTION GEORGETOWN KAYAK DOCKS
	CEN		
	TECH. REVIEW: —		
	DATE: 01/22/2021		



DESIGN NOTES

- I. CODES AND STANDARDS

A. WORK SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF THE LOCAL BUILDING DEPARTMENT, AND THE INTERNATIONAL BUILDING CODE, 2018.

B. ALL CODES, REFERENCES AND STANDARDS REFERRED TO SHALL BE THE CURRENT VERSION UNLESS A DIFFERENT VERSION IS LISTED IN THE BUILDING CODE.
- II. DESIGN AND LOADING CRITERIA

A. DESIGN MINIMUM LIVE LOAD: 50 PSF
- III. WOOD AND TIMBER FRAMING MATERIALS:

A. LUMBER AND TIMBER DESIGN, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH:

1. "NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION."

2. "AMERICAN SOFTWOOD LUMBER STANDARDS."

3. GRADES FOR JOISTS, BEAMS AND POSTS SHALL BE SOUTHERN PINE #1

B. PLYWOOD SHALL BE IN ACCORDANCE WITH SPECIFICATIONS OF THE "AMERICAN PLYWOOD ASSOCIATION," RATED AND PRODUCT STANDARD P-1. (RATED ORIENTED STRAND BOARD EQUIVALENTS MAY BE PROVIDED IN LIEU OF PLYWOOD.)

1. EXTERIOR WALL SUB-SIDING & SUB-ROOFING: EXTERIOR GRADE.

2. INTERIOR WALL AND SUB-FLOORING: INTERIOR GRADE.

C. LAMINATED VENEER LUMBER (LVL) SHALL CONFORM TO "AMERICAN NATIONAL STANDARD FOR WOOD PRODUCTS - STRUCTURAL GLUED-LAMINATED TIMBER," ANSI/ATC A190.1. MEMBER MINIMUM PROPERTIES SHALL BE AS FOLLOWS:

1. FLEXURE: FB = 2600 PSI

2. SHEAR: FV = 285 PSI

3. MODULUS OF ELASTICITY: E = 1,900,000 PSI

D. TREATED LUMBER SHALL COMPLY WITH REQUIREMENTS OF THE "WOOD-PRESERVERS' ASSOCIATION."

1. TIMBER & LUMBER: AWPAC UC4A

E. ANCHOR RODS FOR WOOD FRAMING SHALL BE IN ACCORDANCE WITH ASTM F-1554, GR WITH WELDABILITY SUPPLEMENT, S1.

F. MULTIPLE MEMBERS SHALL BE FASTENED TOGETHER WITH 16D NAILS @ 12" O.C. AS FOLLOWS:

1. 9" TO 12" DEEP TWO ROWS
- IV. CONCRETE AND REINFORCING

A. CONCRETE WORK SHALL BE IN ACCORDANCE WITH "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", ACI 318. AS MODIFIED BY IBC CODE.

B. CONCRETE DESIGN IS IN ACCORDANCE WITH "STRENGTH DESIGN METHOD."

C. ALL CONCRETE SHALL BE MINIMUM 4500 PSI WITH MAX W/C RATIO 0.45. ULTIMATE COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS.

D. CONCRETE MATERIALS:

1. CEMENT: ASTM C-150 TYPE I OR III

2. CEMENT SUBSTITUTES: ASTM C-595 TYPE '1P' (LIMIT TO 25% MAXIMUM CEMENTITIOUS CONTENT BY WEIGHT.)

3. AGGREGATES: ASTM C-33 (NORMAL WEIGHT)

ASTM C-330 (STRUCTURAL LIGHTWEIGHT)

4. AIR-ENTRAINING ADMIX: ASTM C-260

E. CONCRETE SHALL BE AIR-ENTRAINED 6%, +/- 1%.

F. CONCRETE SHALL BE THOROUGHLY COMPACTED DURING PLACEMENT AND WORKED AROUND EMBEDDED ITEMS AND INTO CORNERS OF FORMS.

G. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ITEMS EMBEDDED IN CONCRETE AND SHALL ENSURE THAT ALL ARE ACCURATELY LOCATED AND SECURE.

H. CONCRETE SLUMP SHALL = 4" PLUS OR MINUS 1".

I. GROUT SHALL BE NON-SHRINKABLE, NON-METALLIC CONFORMING TO ASTM C1107, AND SHALL HAVE A SPECIFIED COMPRESSIVE STRENGTH AT 28 DAYS 7000 PSI.

J. REINFORCING BARS #3 THRU #11 SHALL BE DEFORMED AND IN ACCORDANCE WITH "SPECIFICATIONS FOR DEFORMED AND PLAIN BILLET STEEL BARS FOR CONCRETE REINFORCEMENT" ASTM A-615. GRADE 60 KSI.

K. SUBMIT SHOP DRAWINGS FOR REINFORCEMENT TO THE ENGINEER FOR APPROVAL. PREPARE DRAWINGS UNDER THE SUPERVISION OF A PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN THE LOCAL JURISDICTION DETAILING FABRICATING, BENDING, AND PLACING CONCRETE REINFORCEMENT. COMPLY WITH ACI 315 AND ACI DETAILING MANUAL SP-66, SHOWING BAR SCHEDULES, STIRRUP SPACING, BENT BAR DIAGRAMS, AND ARRANGEMENT OF CONCRETE REINFORCEMENT. INCLUDE SPECIAL REINFORCING REQUIRED FOR OPENINGS THROUGH CONCRETE STRUCTURES.
- V. STRUCTURAL STEEL

A. STRUCTURAL STEEL SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS AND THE "MANUAL OF STEEL CONSTRUCTION" FOURTEENTH EDITION.

B. STRUCTURAL STEEL:

1. BALANCE OF STRUCTURAL STEEL SHAPES & PLATES:

ASTM A-36 FY = 36,000 PSI

2. STRUCTURAL PIPE: ASTM A-53B FY = 35,000 PSI

3. ANCHOR RODS: ASTM F-1554 GR36 OR

GR 55 WITH WELDABILITY SUPPLEMENT S1.

4. GALVANIZING (HOT-DIP): ASTM A-123

5. STAINLESS STEEL BARS AND SHAPE: ASTM A-276 TYPE 304

6. STAINLESS STEEL BOLTS: ASTM F-593

7. STAINLESS STEEL NUTS: ASTM F-594 ALLOY GROUP (A1)

C. WELDING SHALL CONFORM TO REQUIREMENTS OF THE "STRUCTURAL WELDING CODE" AWS D1.1-08. USE 70 KSI LOW-HYDROGEN ELECTRODES.

D. ALL STRUCTURAL STEEL SHAPES, PLATES AND BOLTS SHALL BE HOT DIPPED GALVANIZED TO ASTM A123 GRADE Z350. TOUCH UP ALL DAMAGED AREAS, INCLUDING FIELD WELDS.

- VI. GENERAL

A. MEASURE AND PROVIDE ALL DIMENSIONS, ELEVATIONS AND CONDITIONS AT THE JOB SITE PRIOR TO CONSTRUCTION AND THE SUBMISSION OF SHOP DRAWINGS, AND NOTIFY THE OWNER IMMEDIATELY OF ANY DISCREPANCIES. VERIFICATION AND NOTIFICATION SHALL PROCEED 2 WEEKS PRIOR TO THE START OF WORK SO THAT ANY NECESSARY CHANGES CAN BE MADE WITHOUT DELAYING THE PROJECT SCHEDULE.

B. DETAILS, SECTIONS, AND NOTES SHOWN ON THESE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR CONDITIONS ELSEWHERE UNLESS OTHERWISE SHOWN OR NOTED.

C. SHOP DRAWINGS SUBMITTED TO THE ENGINEER SHALL BEAR THE CONTRACTOR'S STAMP, DATE AND SIGNATURE VERIFYING DOCUMENTS HAVE BEEN REVIEWED AND CORRECTED FOR CONFORMANCE TO AND COORDINATION WITH CONTRACT DOCUMENTS.

D. FABRICATION SHALL PROCEED ONLY AFTER SHOP DRAWING APPROVAL BY THE ENGINEER.

E. DO NOT REPRODUCE ANY PORTION OF CONTRACT DOCUMENTS IN THE SHOP DRAWINGS.

F. MEANS AND METHODS OF CONSTRUCTION ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- VII. TESTING AND INSPECTION

THE CONTRACTOR SHALL RETAIN THE SERVICES OF A TESTING AND INSPECTION AGENCY TO PERFORM THE SERVICES SPECIFIED.

A. MINIMUM SERVICES PROVIDED SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF THE LOCAL JURISDICTION.

B. FAILURE TO RETAIN A TESTING AGENCY TO PROVIDE REQUIRED SERVICES OR A FAILURE TO SUBMIT SIGNED AND SEALED REPORTS SHALL BE CONSIDERED NON-COMPLIANCE WITH CONTRACT DOCUMENTS.

C. CONSTRUCTION CONSIDERED NON-COMPLIANT SHALL BE REMOVED AND REPLACED.

D. ALL TESTING AND INSPECTION SHALL BE UNDER THE DIRECTION OF A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE LOCAL JURISDICTION.

E. INSPECTION SHALL MINIMALLY INCLUDE THE FOLLOWING:

1. CONCRETE: ALL STRUCTURAL CONCRETE; LOCATION, STRENGTH, TYPE (NORMAL OR LIGHTWEIGHT), SLUMP, PLACEMENT, AIR TEMPERATURE, CURING AND WEATHER ACCOMMODATIONS AND CONCRETE ADDITIVES.

2. WOOD: LUMBER, FOR IMPERFECTIONS THAT ARE CAUSE FOR REJECTION, NAILING, LIGHT GAUGE CONNECTION PLATES, BOLTED PLATES, OTHER CONNECTIONS AND FOUNDATION ANCHORAGE.

F. COMPLY WITH CODE REQUIREMENTS AND THE FOLLOWING:

1. CONCRETE CYLINDERS: ONE SET OF 6 LABORATORY CURED 6X12 CYLINDERS SHALL BE TAKEN FOR EACH DAY'S POUR FOR EACH MIX: (2) 7-DAY, (2) 28-DAY, (2) HOLD;

2. ONE SET OF 4 FIELD CURED 6X12 CYLINDERS SHALL BE TAKEN FOR EACH DAY'S POUR FOR EACH MIX (2) 7 -DAY, (2) 28-DAY.

G. FIELD CURED CYLINDERS SHALL BE CURED IN ACCORDANCE WITH CODE REQUIREMENTS OR IF NOT APPLICABLE THEN CURED IN SAME CONDITIONS AS CONCRETE IN WORK.

75% CD SUBMISSION

GRAPHIC SCALE	DESIGNED: DB	SUB SHEET NO. S3	TITLE OF SHEET DESIGN NOTES GEORGETOWN KAYAK DOCKS	
	CADD CEN			
	TECH. REVIEW: —			
	DATE: 01/22/2021			