

APPENDIX F

Work Plan (85% Design for the RFPs)

Consent Decree in the matter of
*United States of America, State of New York and St. Regis Mohawk Tribe v. Alcoa Inc. and
Reynolds Metals, Co.*

Appendix F to the Consent Decree

**WORK PLAN
FOR RECREATIONAL PROJECTS
(85% DESIGN)**

1.0 INTRODUCTION

As compensation for past environmental damages to several rivers in St. Lawrence County New York, Alcoa will proceed with multiple Recreation Improvement Projects intended to enhance public access to and use of these rivers. Alcoa shall construct each of the Recreation Improvement Projects as described in this Work Plan.

2.0 PROJECT IMPLEMENTATION

The Recreation Improvement Projects will consist of site modifications at five separate locations on the Grasse and Raquette Rivers. Each of these locations is currently used as river access points, but, each location varies in the level of development, ranging from primitive to fully developed. The site improvements will improve each location to a similar level of development with easy and convenient access to boating and fishing facilities. The five locations to be developed include:

1. Lower Raquette River
 - Identified as “Lower Raquette River” in Attachment 1 herein.
 - Location is on Route 37, approximately 5 miles east of the Town of Massena.
 - Alcoa to construct new vehicle parking, river access drive, boat launch ramp, river edge trail and fishing platform.
2. Massena Center
 - Identified as “Massena Center” in Attachment 1 herein.
 - Location is adjacent to the Route 131 Bridge over the Grasse River, approximately one mile east of the Town of Massena.
 - Alcoa to construct a new vehicle access drive, vehicle parking, multiple lane boat launch ramp, a floating boat boarding pier, river edge trail and fishing platform.
3. Route 37 Bridge
 - Identified as “Route 37 Bridge” in Attachment 1 herein.
 - Location is adjacent to the Route 37 bridge over the Grasse River , approximately 1 mile west of the Town of Massena.
 - Alcoa to construct a new vehicle access drive, vehicle parking, boat launch ramp, river edge walkway, and connect to an existing grassy shoreline fishing area.
4. Springs Park
 - Identified as “Springs Park” in Attachment 1 herein.
 - Location is along Hatfield Road adjacent to the Route 420 Bridge over the Raquette River in the Town of Massena.
 - Alcoa to construct new vehicle parking, boat launch ramp, boat boarding pier and river edge walkway.
5. Madrid
 - Identified as “Madrid” in Attachment 1 herein.
 - Location is adjacent to the Route 345 Bridge over the Grasse River in the Town of Madrid.

- Alcoa to construct new vehicle parking, boat launch ramp and a fishing platform.

2.1 Construction Criteria

Each new site element will be designed utilizing current engineering standards and constructed utilizing high quality materials. Additional information regarding the development sites, as well as the proposed new site improvements, are included in Attachments 1 through 5 to this document.

2.2 Recreation Improvement Projects Work Plan

Alcoa has developed a Recreation Improvement Projects Work Plan (85% Design) for each of the projects. These Work Plans have been reviewed and approved by the Trustees and are incorporated into this Appendix F of the Consent Decree as Attachment 1. The Work Plans will be used for permitting, for project communication, and to coordinate construction activities. Upon completion of the permitting and based on input from the permitting authorities, Alcoa will prepare the 100% Design, including the construction schedule. The final deliverables associated with the 100% Design are described in Appendix G to the Consent Decree (Expected Elements of 100% Design for Recreational Fishing Projects). The Trustees will be provided with the opportunity to review Alcoa's final Work Plan and 100% Designs. Within 14 business days of receipt of the final Work Plan and 100% Design, the State will provide written notice to Alcoa whether or not the Trustees find that there are material inconsistencies between the final Work Plan and 100% Design and the construction criteria in Appendix F. If any material inconsistencies are identified, or if the Trustees need additional information about details included in the Work Plan to ensure compliance with the construction criteria, the Trustees will arrange a meeting with Alcoa to discuss the Work Plan. The Trustees will provide a written statement of their position with respect to any material inconsistencies within 14 business days of the meeting.

2.3 Construction Certification

Within sixty (60) days following the completion of each of the forgoing Recreational Improvement Projects, Alcoa shall prepare and submit to the State a post-construction report as contemplated by Paragraph 26 of the Consent Decree. The post-construction report shall include the following: (1) A statement signed and sealed by a registered New York Engineer confirming that the Recreational Improvement Project was constructed in accordance with the plans included in this Implementation Plan; (2) An executed agreement between Alcoa and the local government entity that owns and/or manages the Project Site, or with such other entity approved by the State, that provides for a) the ownership and/or management of the Recreational Improvement Project by the entity following construction; b) free public access to the Recreational Improvement Project in perpetuity, and c) funding sufficient, in the judgment of Alcoa and the owner/manager of the Project Improvement Site, to conduct routine maintenance activities and to fund repair of damage caused by storms, hurricanes, or accidents or to fund the purchase

of casualty loss insurance policies to cover such damage for the project for 20 years (collectively, the “Post-Construction Report”).

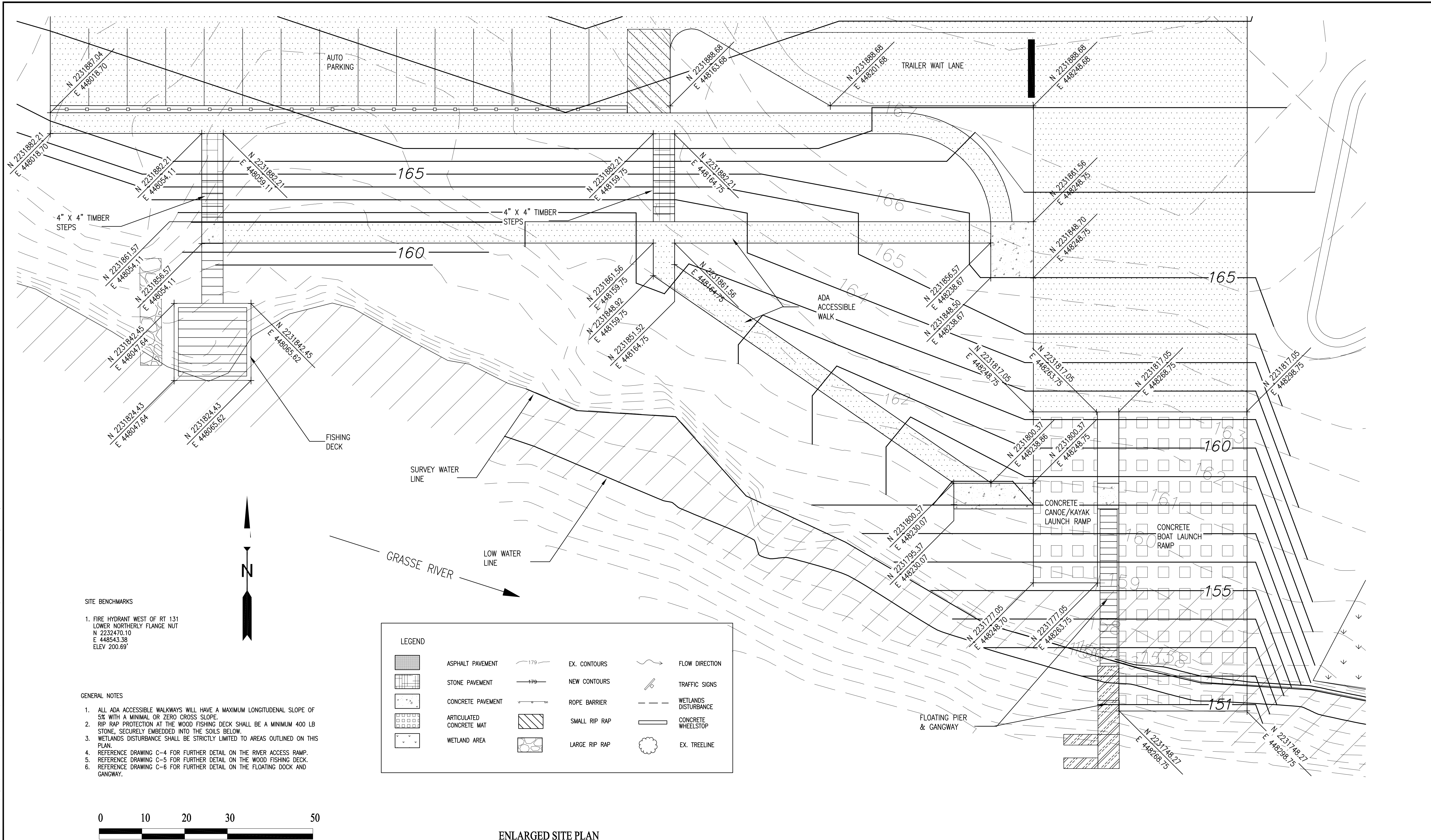
The Trustees shall evaluate each Post-Construction Report and the results of any inspection they may undertake, and if the Trustees agree that the construction criteria have been met, the State shall issue a written notice on behalf of all Trustees certifying completion of construction of the particular Recreational Project in accordance with the Consent Decree within 60 days after receipt of the Post-Construction Report or any joint inspection of the particular Project Improvement Site requested in the Consent Decree. If the Trustees do not agree that the construction criteria have been met, the Trustees will arrange a meeting with Alcoa to discuss whether additional steps need to be taken to meet the construction criteria.

2.4 Construction Completion

Alcoa shall provide that each Recreational Improvement Project meets the construction criteria required to obtain a Certificate of Completion of Construction by the dates set forth in Paragraphs 24-26 of the Consent Decree.

3.0 FINAL CERTIFICATION OF PROJECT COMPLETION

When Alcoa has completed all Recreational Improvement Projects required under the Work Plan, Alcoa will notify the Trustees in writing. The Trustees will certify Alcoa’s completion of the Recreational Improvement Projects in accordance with the Consent Decree.



SITE BENCHMARKS

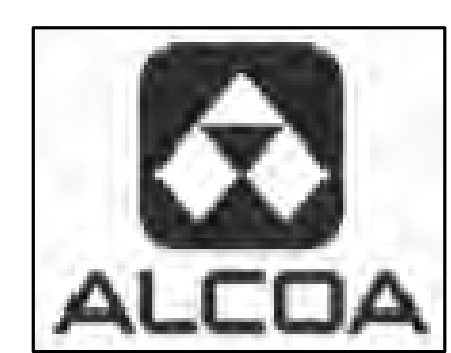
1. FIRE HYDRANT WEST OF RT 131
LOWER NORTHERLY FLANGE NUT
N 2232470.10
E 448543.38
ELEV 200.69'

- GENERAL NOTES**
1. ALL ADA ACCESSIBLE WALKWAYS WILL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 5% WITH A MINIMAL OR ZERO CROSS SLOPE.
 2. RIP RAP PROTECTION AT THE WOOD FISHING DECK SHALL BE A MINIMUM 400 LB STONE, SECURELY EMBEDDED INTO THE SOILS BELOW.
 3. WETLANDS DISTURBANCE SHALL BE STRICTLY LIMITED TO AREAS OUTLINED ON THIS PLAN.
 4. REFERENCE DRAWING C-4 FOR FURTHER DETAIL ON THE RIVER ACCESS RAMP.
 5. REFERENCE DRAWING C-5 FOR FURTHER DETAIL ON THE WOOD FISHING DECK.
 6. REFERENCE DRAWING C-6 FOR FURTHER DETAIL ON THE FLOATING DOCK AND GANGWAY.

LEGEND			
	ASPHALT PAVEMENT		EX. CONTOURS
	STONE PAVEMENT		NEW CONTOURS
	CONCRETE PAVEMENT		ROPE BARRIER
	ARTICULATED CONCRETE MAT		SMALL RIP RAP
	WETLAND AREA		LARGE RIP RAP
	FLOW DIRECTION		TRAFFIC SIGNS
	WETLANDS DISTURBANCE		CONCRETE WHEELSTOP
	EX. TREELINE		

ENLARGED SITE PLAN

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 © 2006 ARCADIS G&M, Inc.
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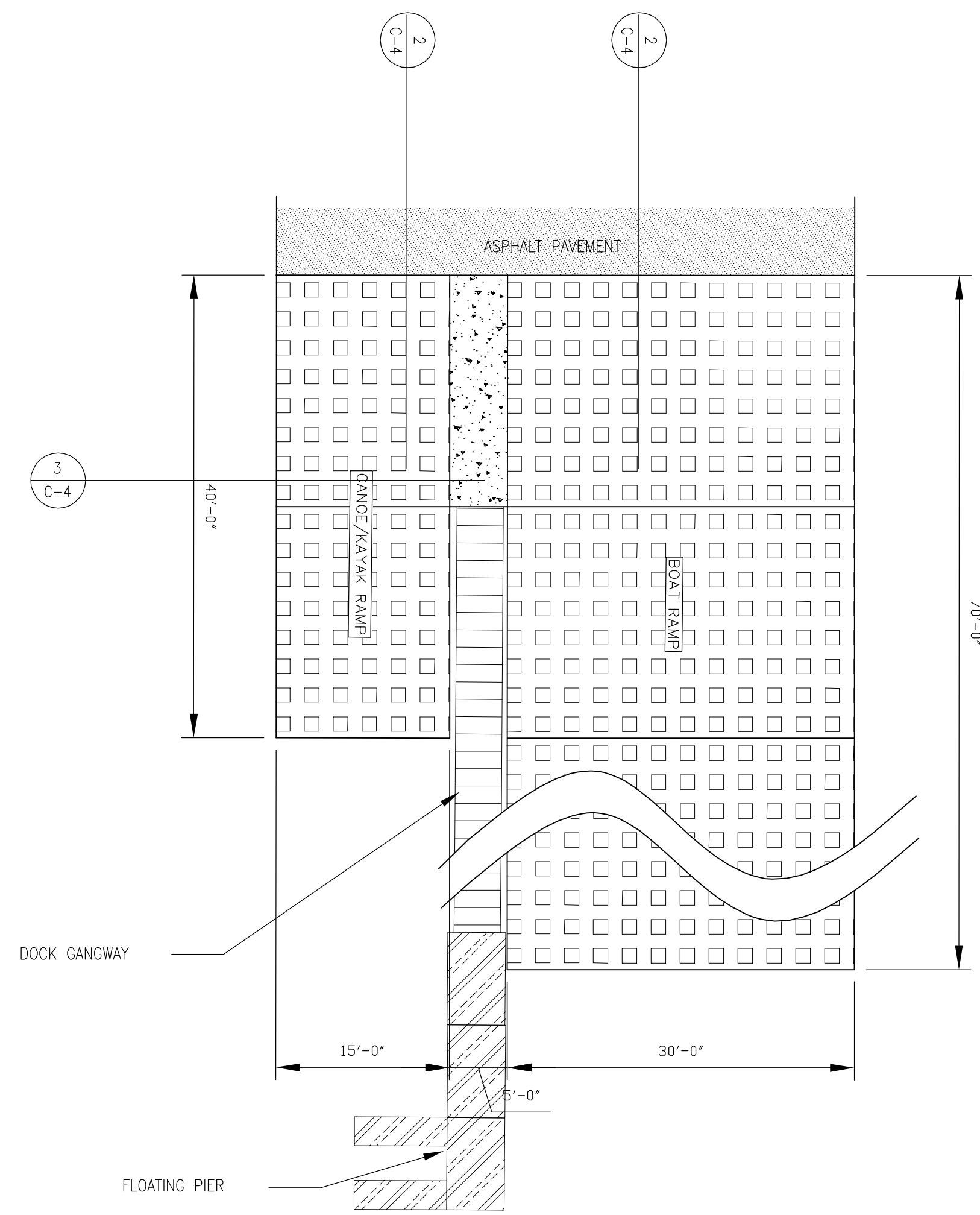


KEYPLAN	SEAL	SEAL
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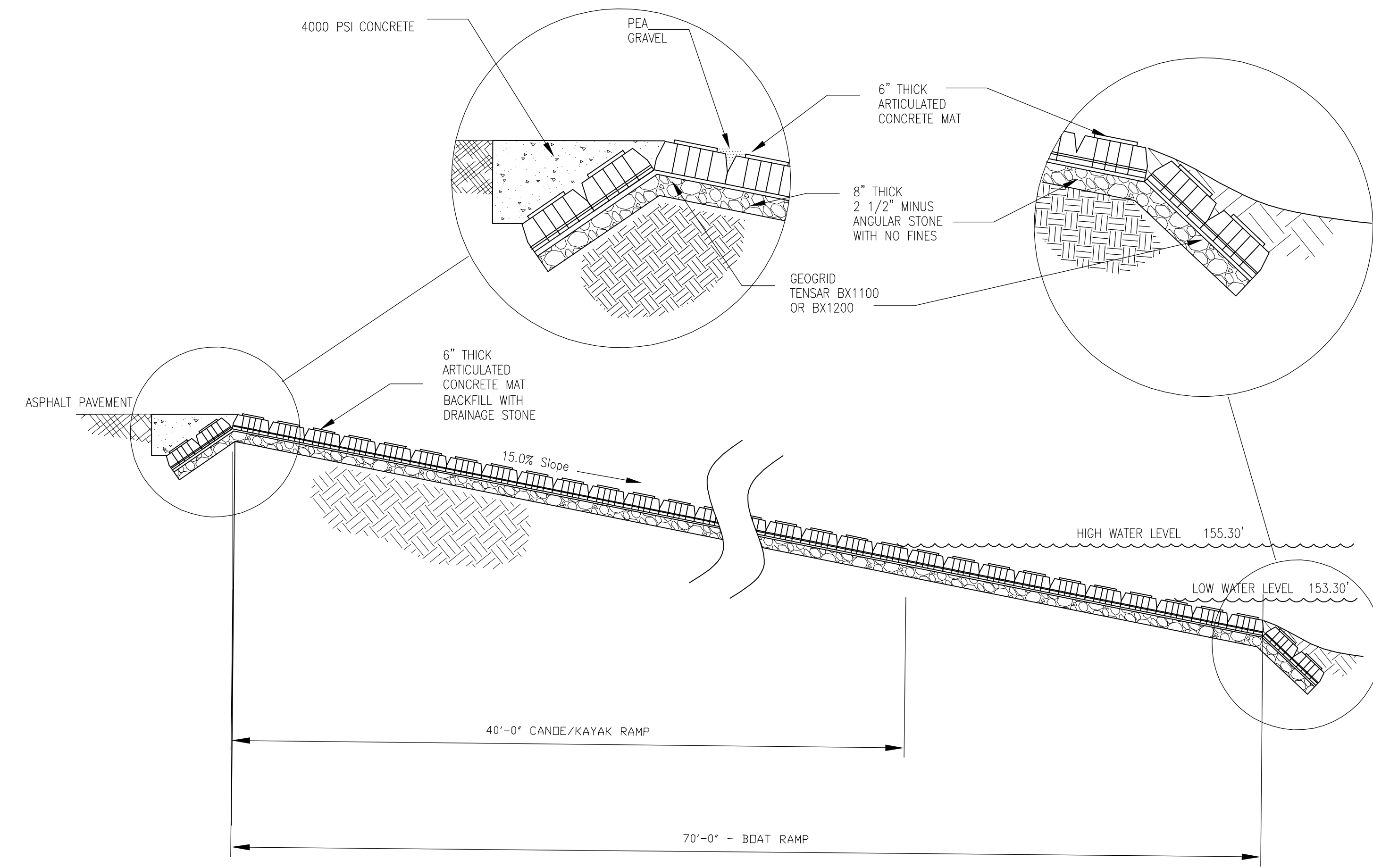
ARCADIS
 6723 Towpath Road
 Syracuse NY, 13214
 315-764-2239

ST. LAWRENCE COUNTY, NEW YORK
 NRD RECREATIONAL
 RIVER ACCESS IMPROVEMENTS
 MASSENA CENTER

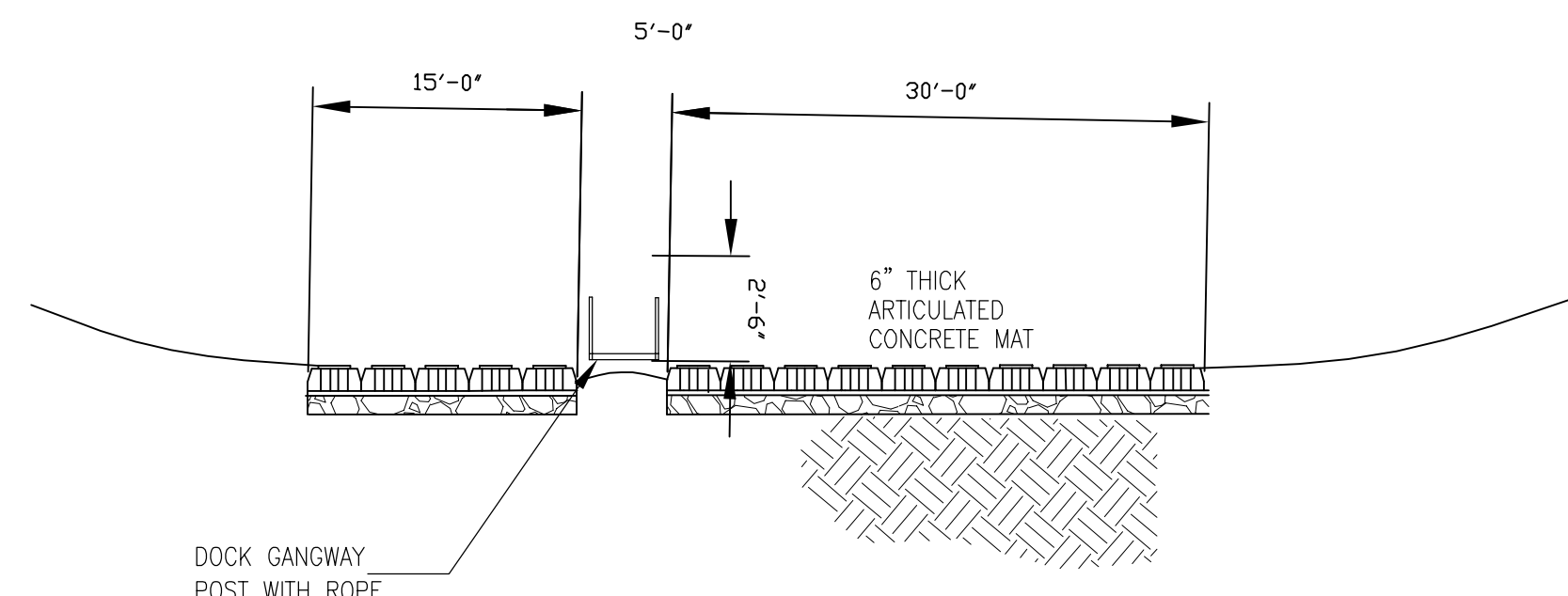
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PROJECT NUMBER B0010877		DRAWING NUMBER C-3 SHEET OF	



1 RIVER ACCESS RAMP PLAN
SCALE: 1" = 1'



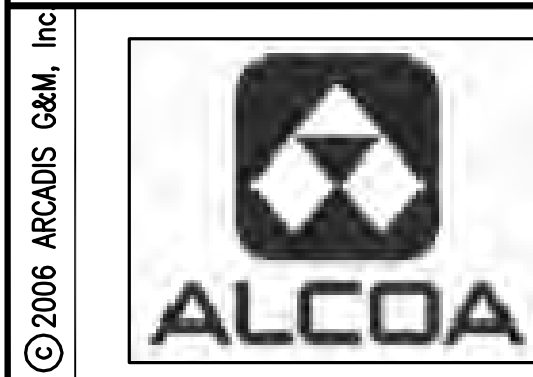
2 SECTION A
SCALE: 1" = 2'



3 SECTION B
SCALE: 1" = 1'

RIVER ACCESS RAMP

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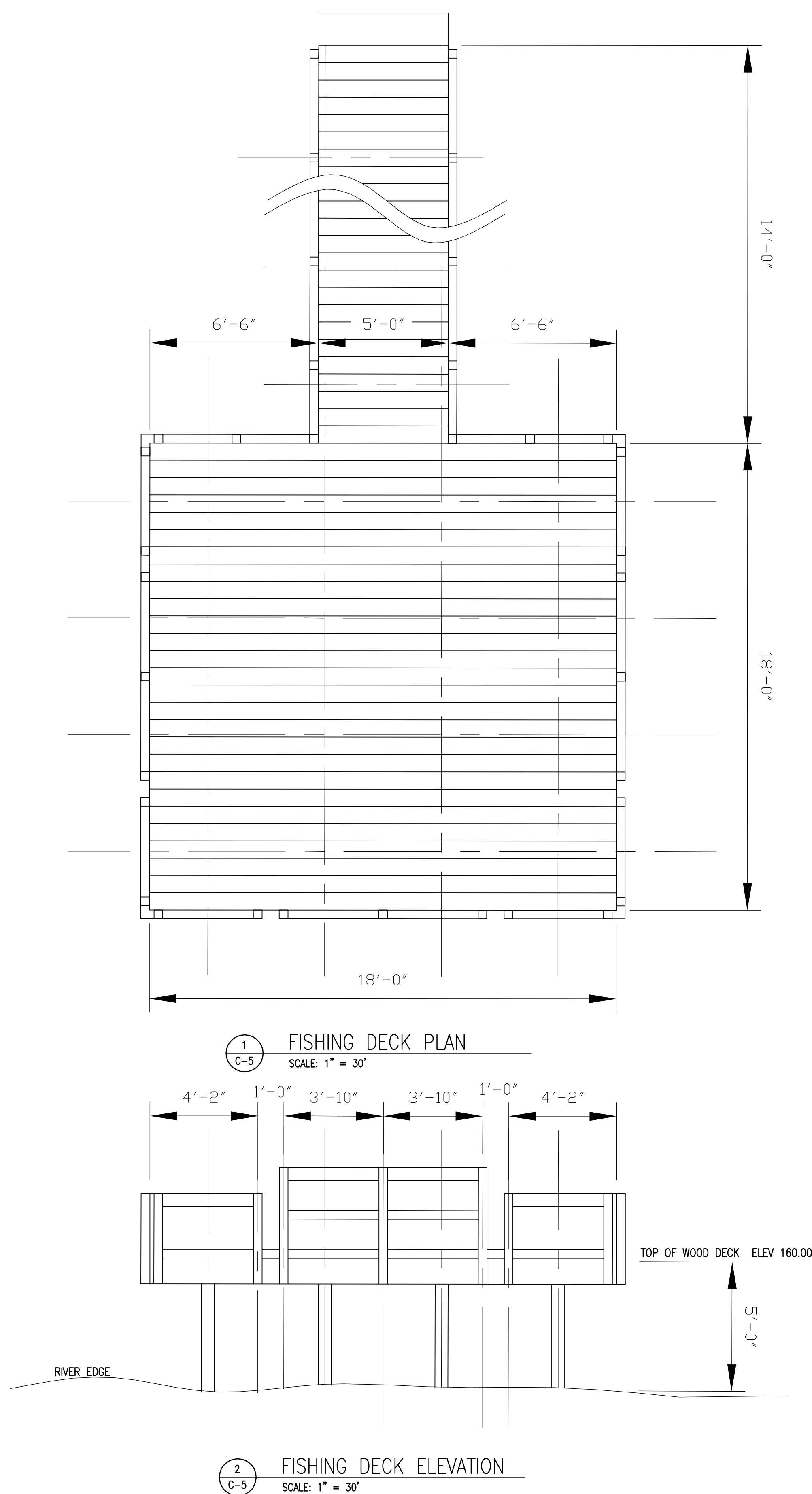
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 315-764-2239

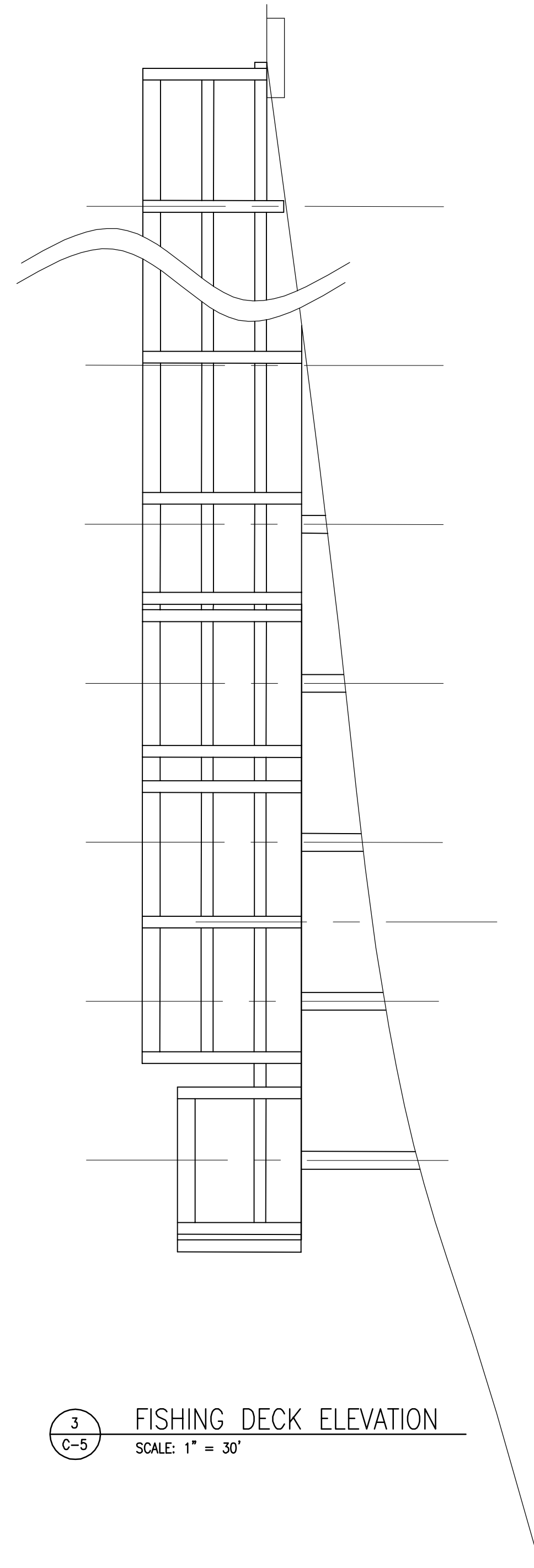
ST. LAWRENCE COUNTY, NEW YORK
 NRD RECREATIONAL
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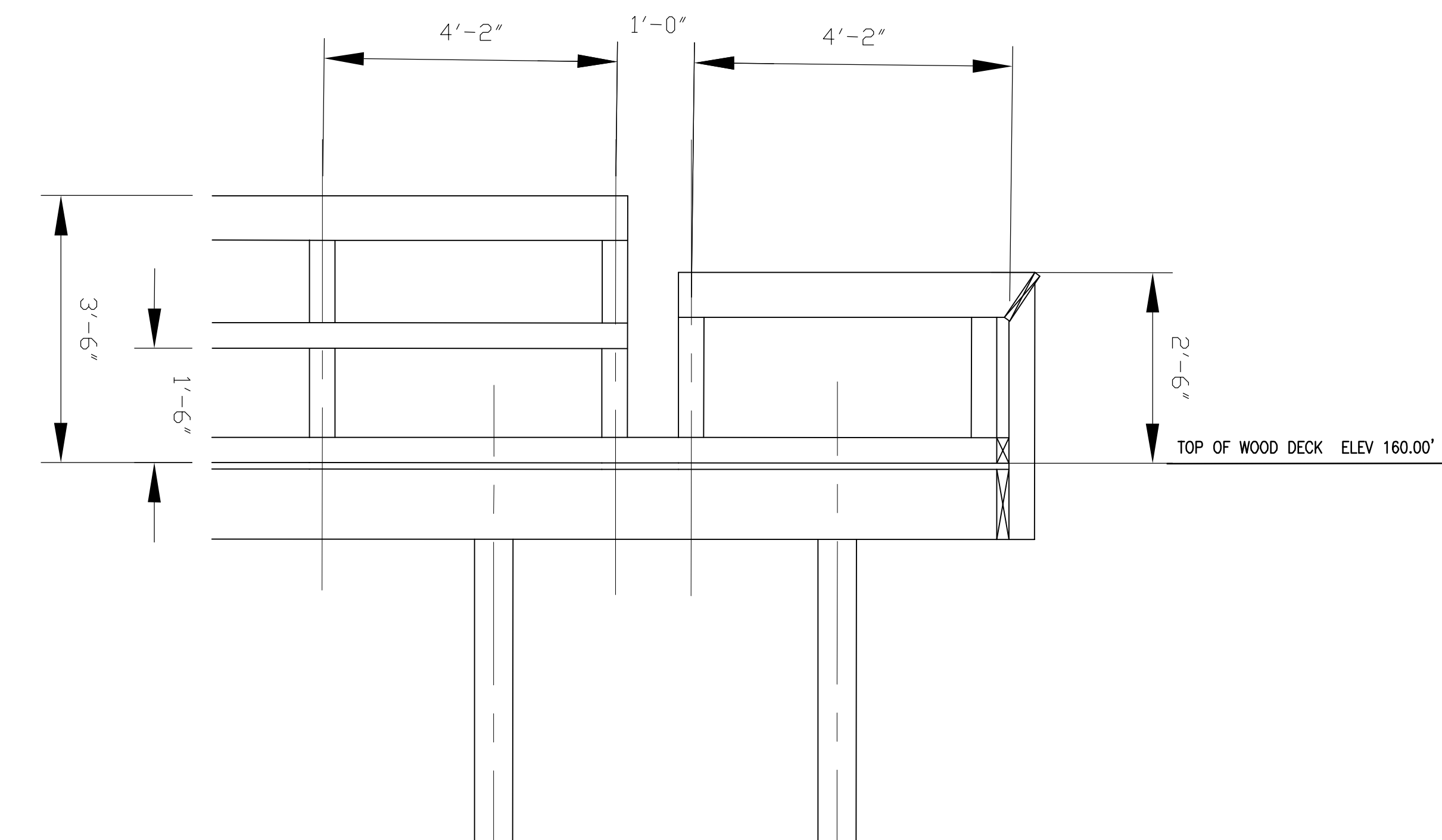


1 FISHING DECK PLAN
SCALE: 1" = 30'

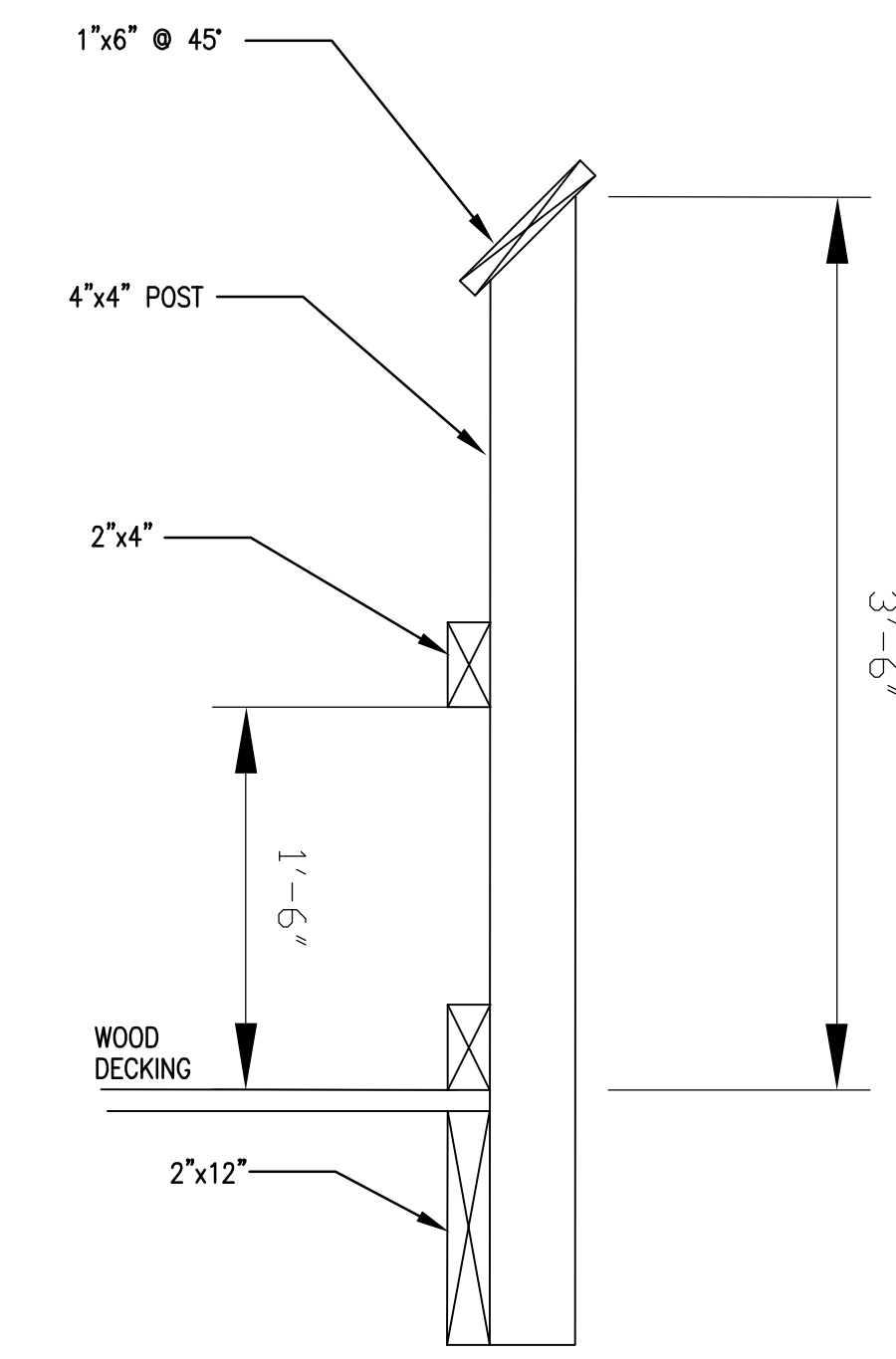
2 FISHING DECK ELEVATION
SCALE: 1" = 30'



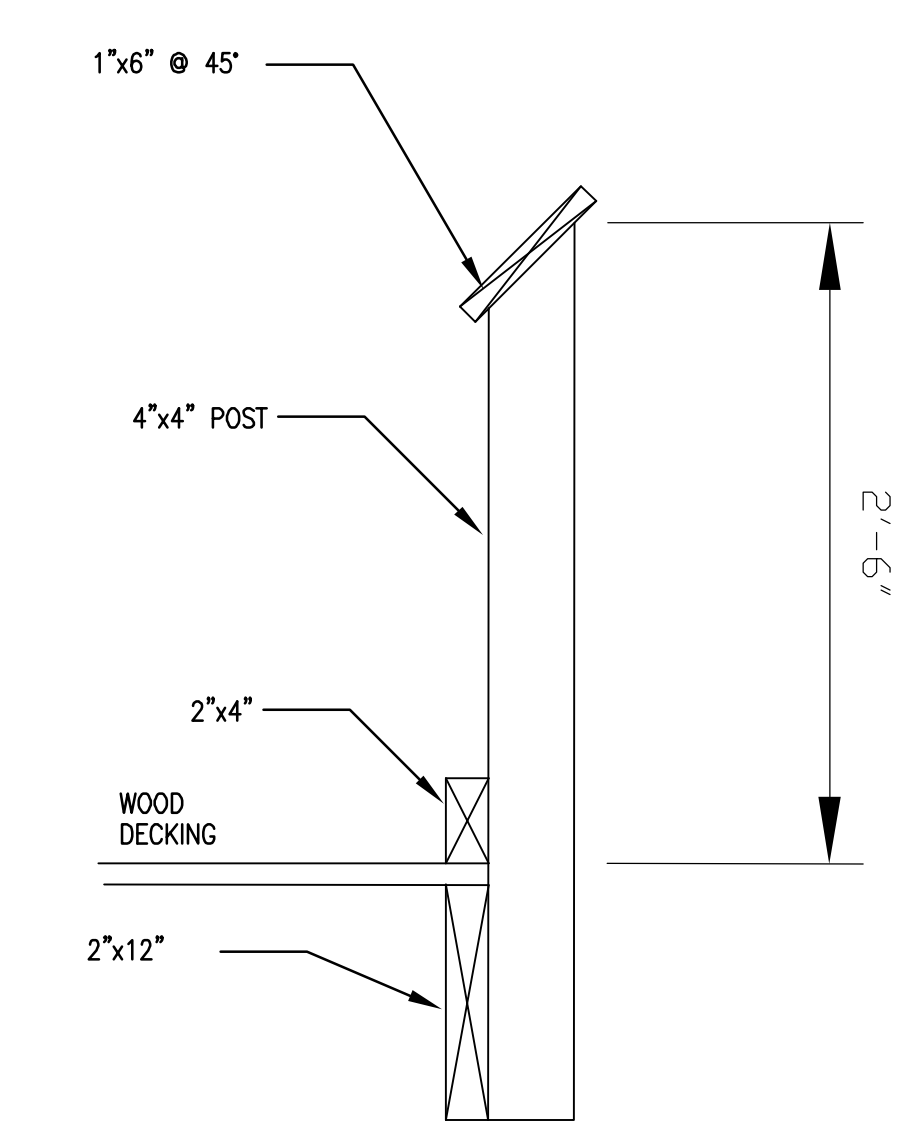
3 FISHING DECK ELEVATION
SCALE: 1" = 30'



4 ENLARGED DECK RAILING ELEVATION - INSIDE VIEW
SCALE: 1" = 15'



STANDARD RAILING



ADA RAILING

5 FISHING DECK RAILING SECTIONS
SCALE: NTS

FISHING PLATFORM

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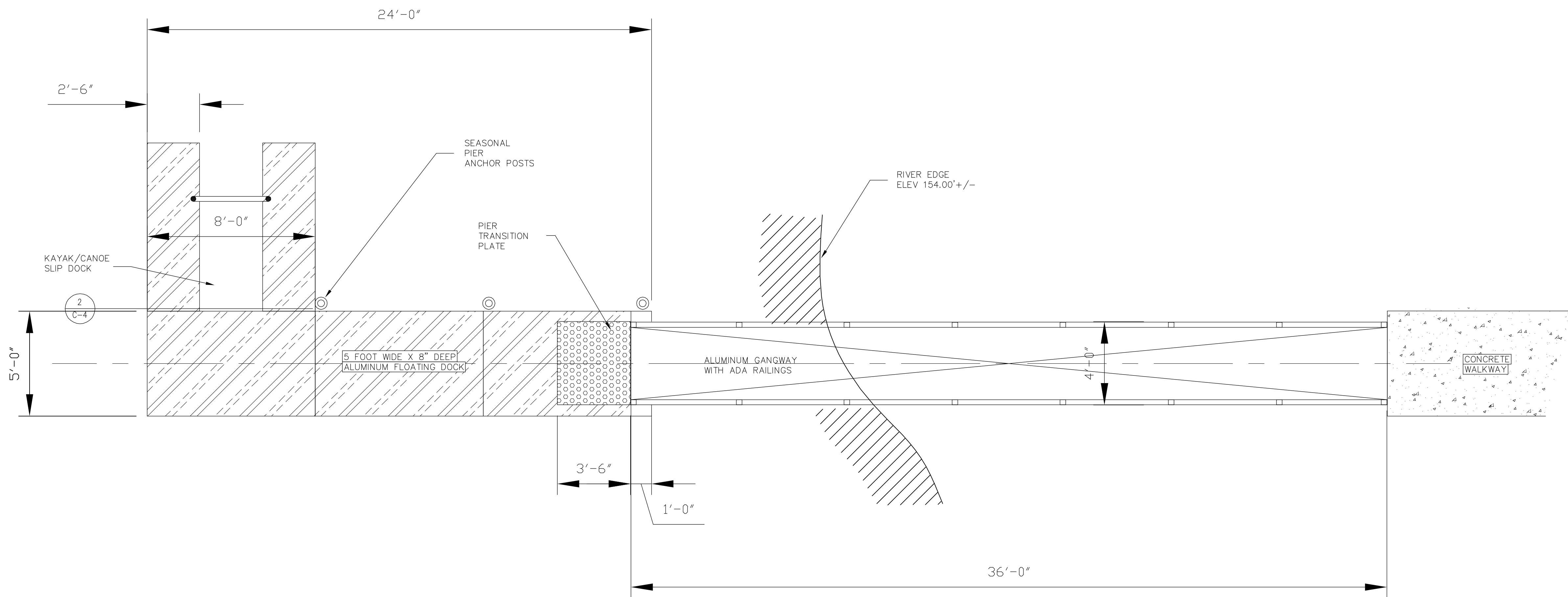
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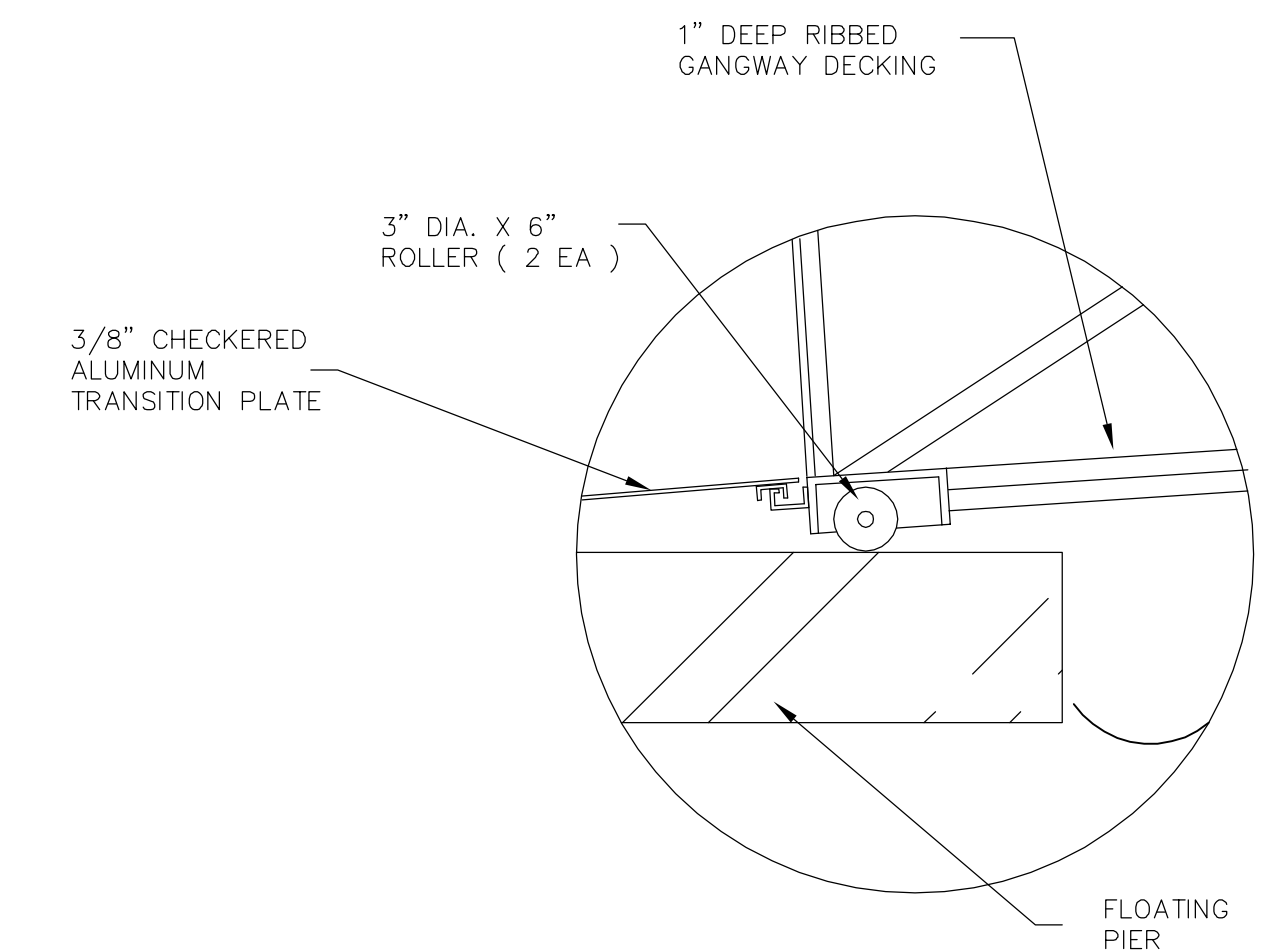
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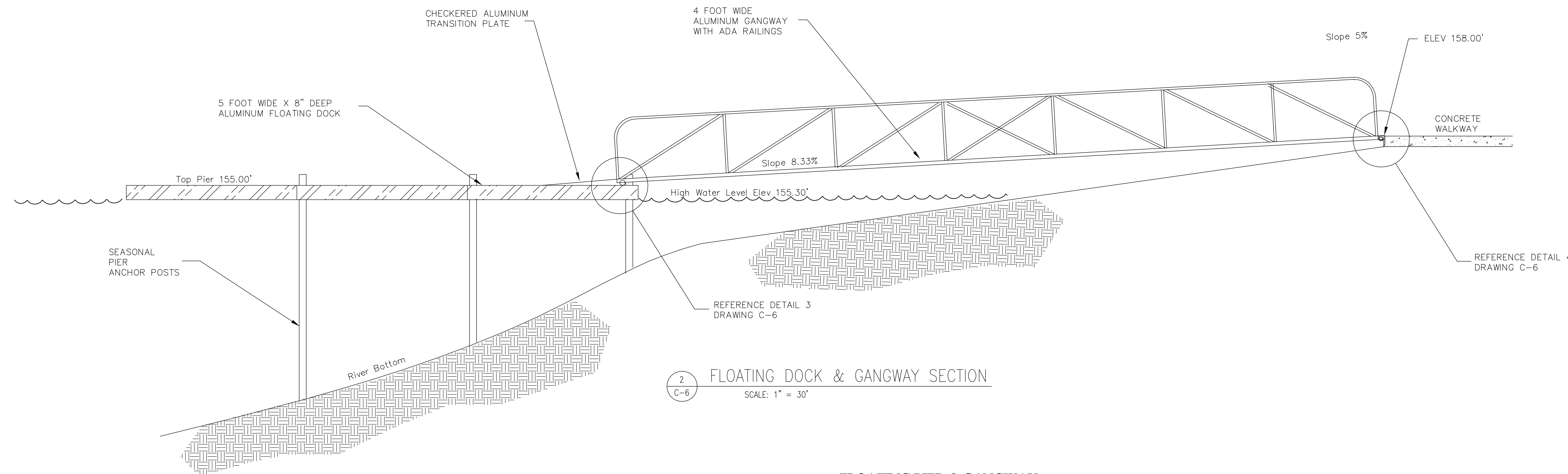
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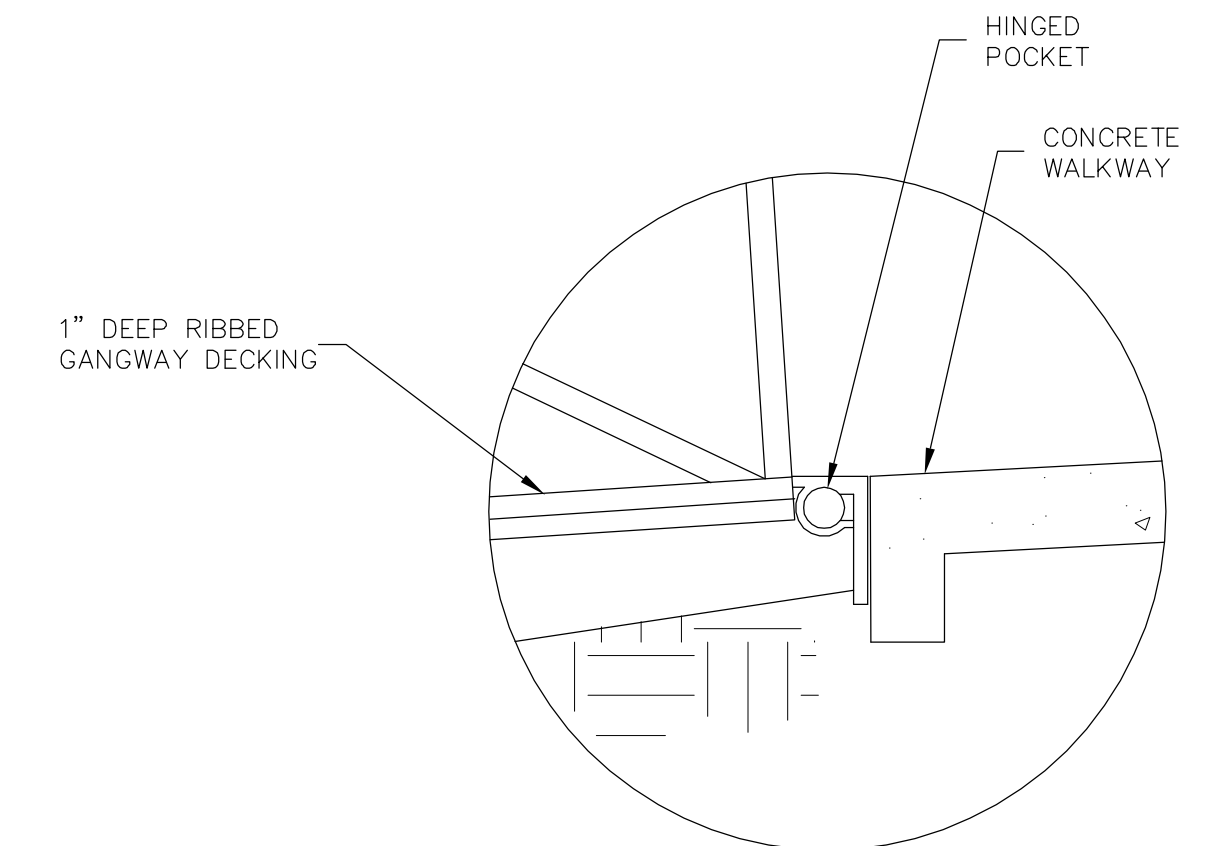
1
C-6 FLOATING DOCK & GANGWAY
SCALE: 1" = 30'



3
C-6 DETAIL 3 - DOCK SIDE TRANSITION
SCALE: 1" = 10'



2
C-6 FLOATING DOCK & GANGWAY SECTION
SCALE: 1" = 30'



4
C-6 DETAIL 4 - SHORE SIDE HINGE
SCALE: 1" = 10'

FLOATING PIER & GANGWAY

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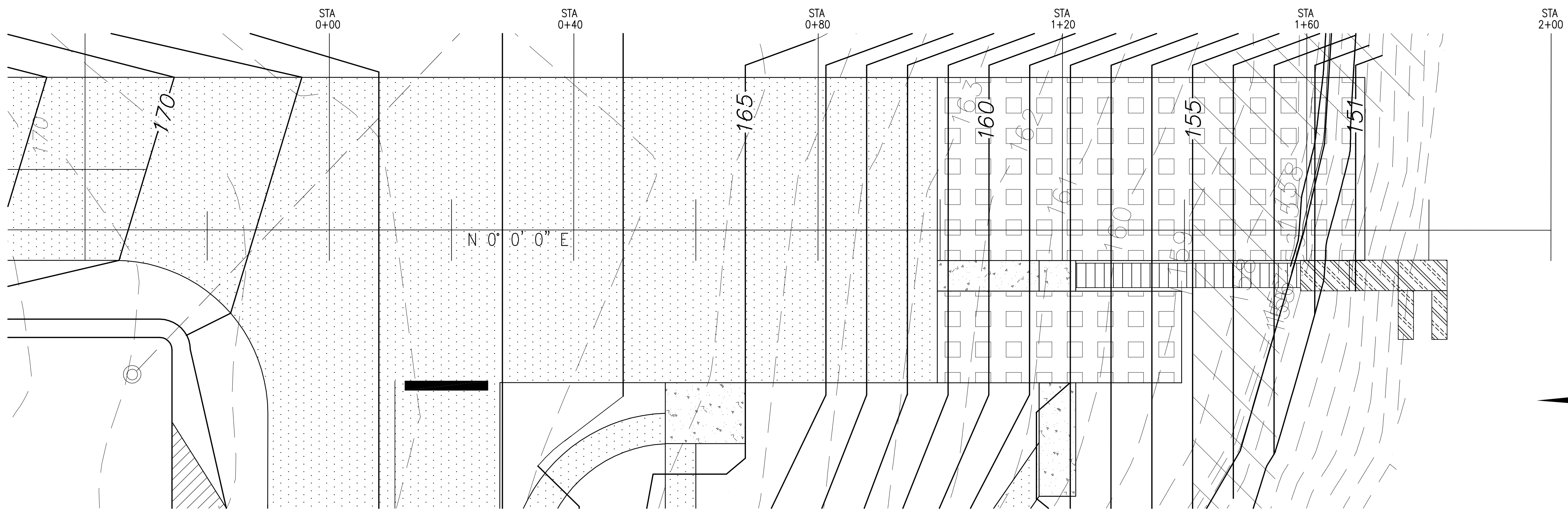


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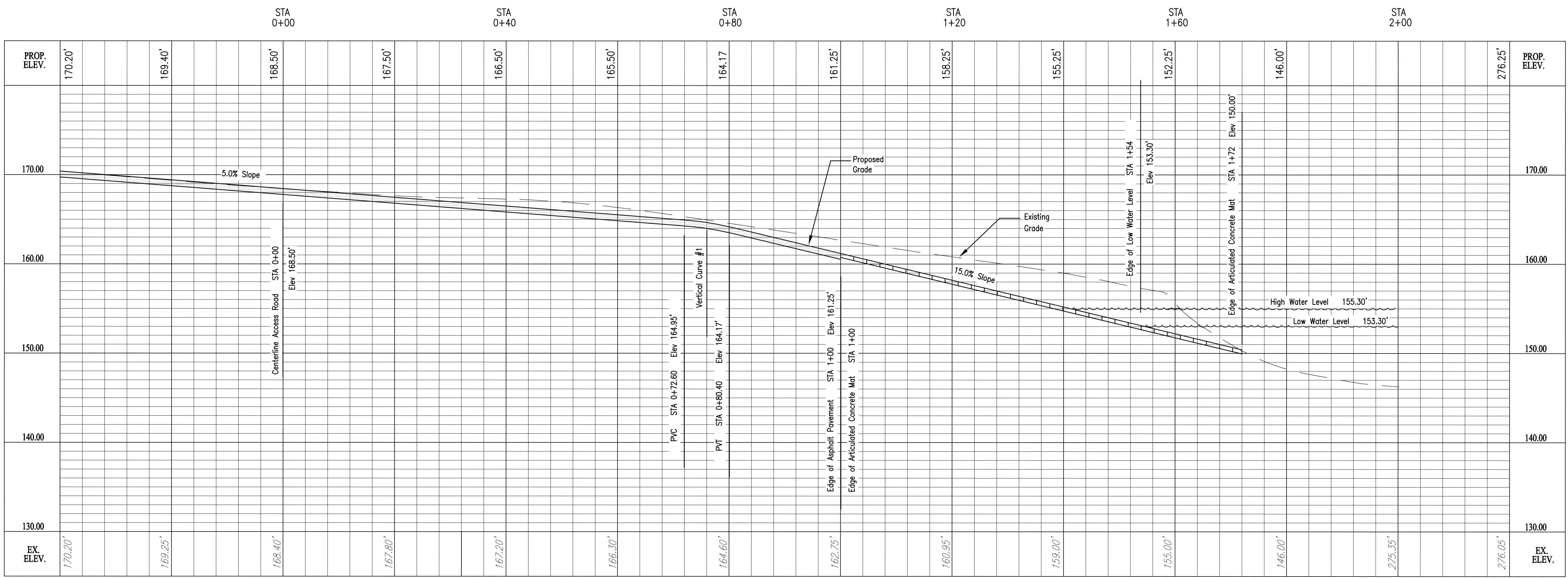
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SHEET TITLE RIVER EDGE IMPROVEMENTS FLOATING PIER & GANGWAY		TASK/PHASE NUMBER Project Task B0010877	DRAWN BY FRamps DRAWING NUMBER C-6 SHEET OF



PLAN



PROFILE

SCALE:
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 VERT: 1" = 6'

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REV.	ISSUED DATE	DESCRIPTION
0	6-18-12	Work Plan

KEYPLAN	SEAL	SEAL
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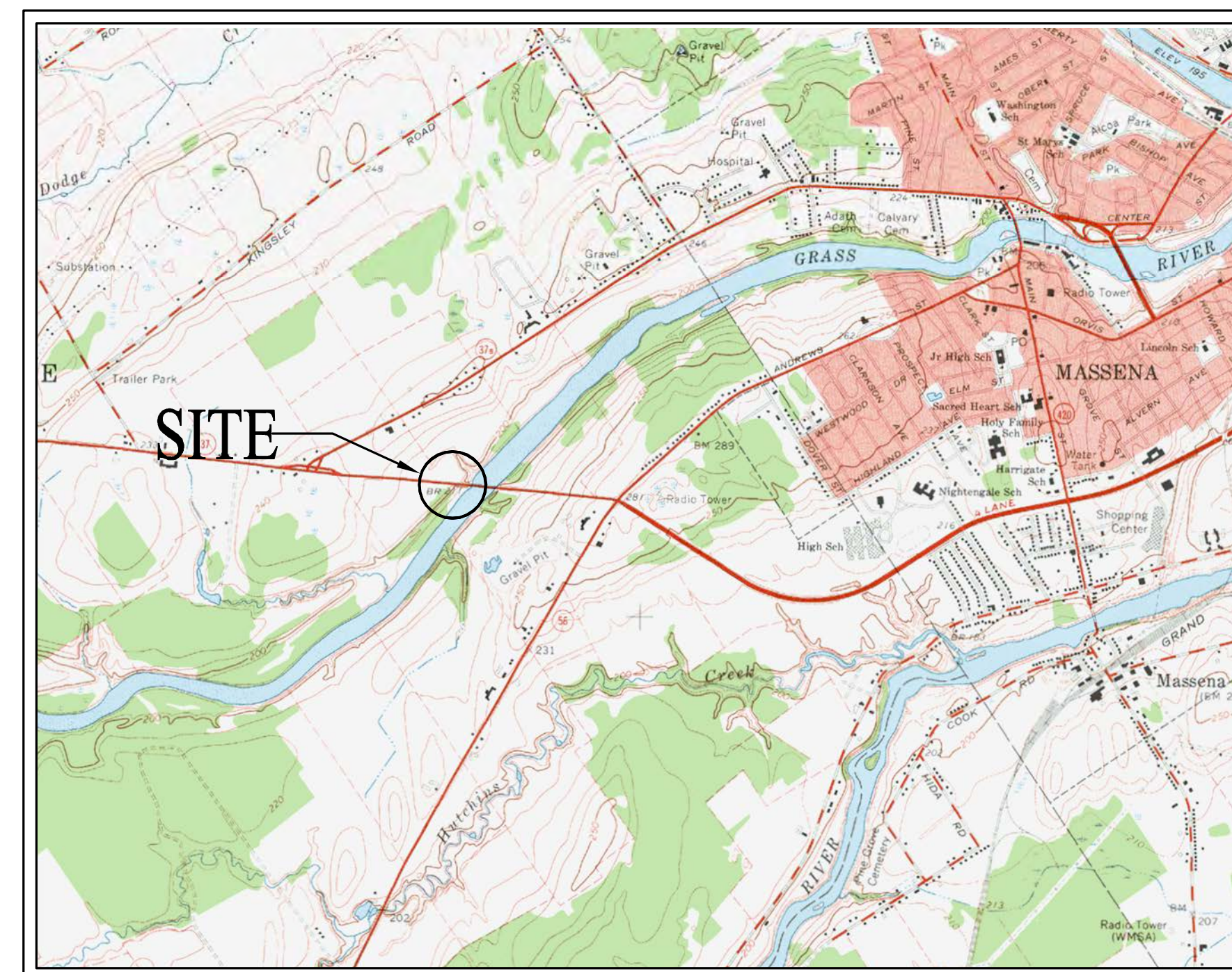
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DRAWING INDEX

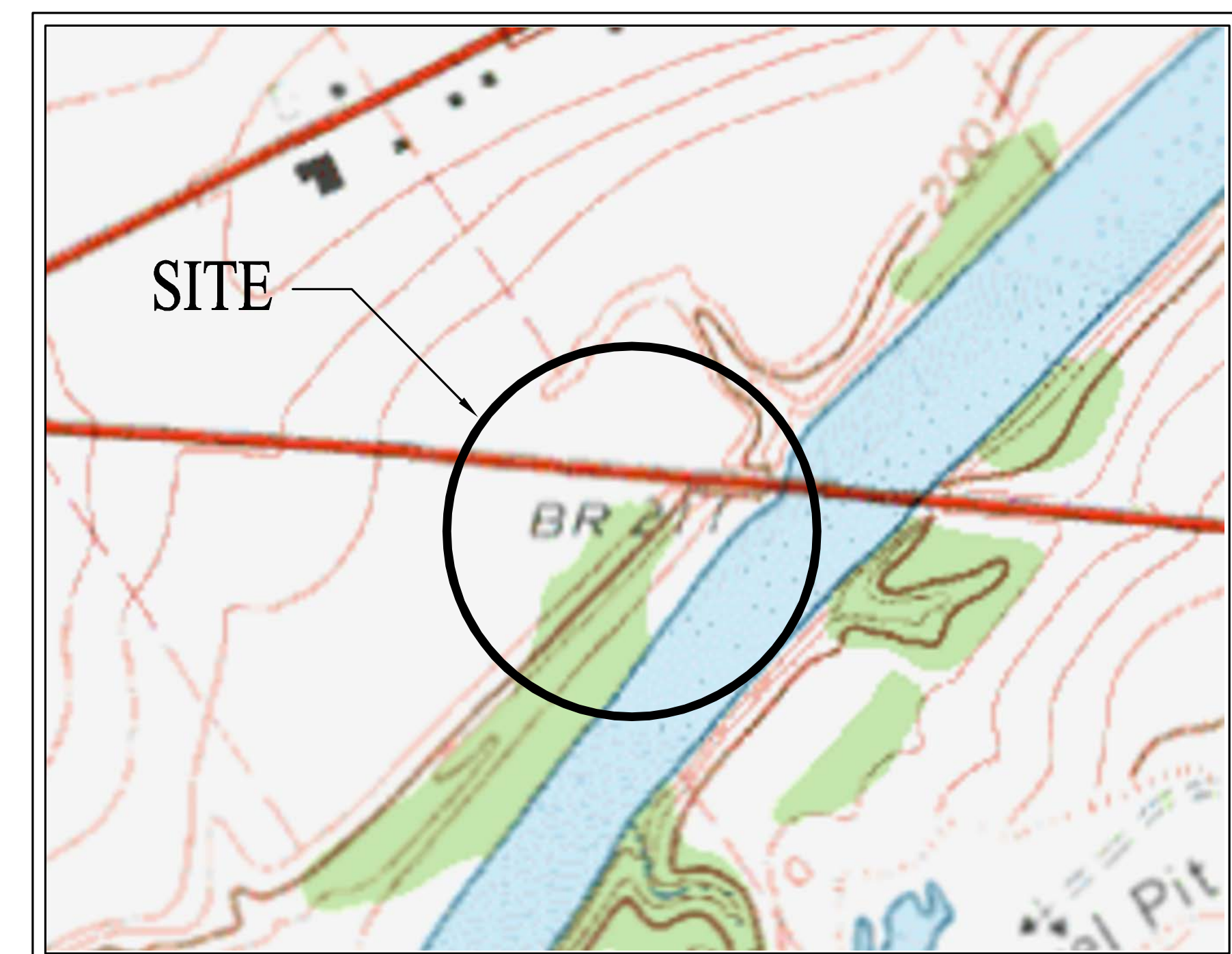
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T-1	COVER SHEET & INDEX
C-0	EXISTING CONDITIONS PLAN
C-1	OVERALL SITE PLAN
C-2	ENLARGED SITE PLAN
C-3	RIVER ACCESS RAMP
C-4	ACCESS ROAD PLAN/PROFILE
C-5	ACCESS ROAD PLAN/PROFILE
C-6	ACCESS ROAD PLAN/PROFILE
C-7	ACCESS RAMP/CHANNEL PLAN/PROFILE

WORK PLAN

NRD RECREATIONAL RIVER ACCESS IMPROVEMENTS ROUTE 37 BRIDGE



VICINITY MAP



LOCATION MAP

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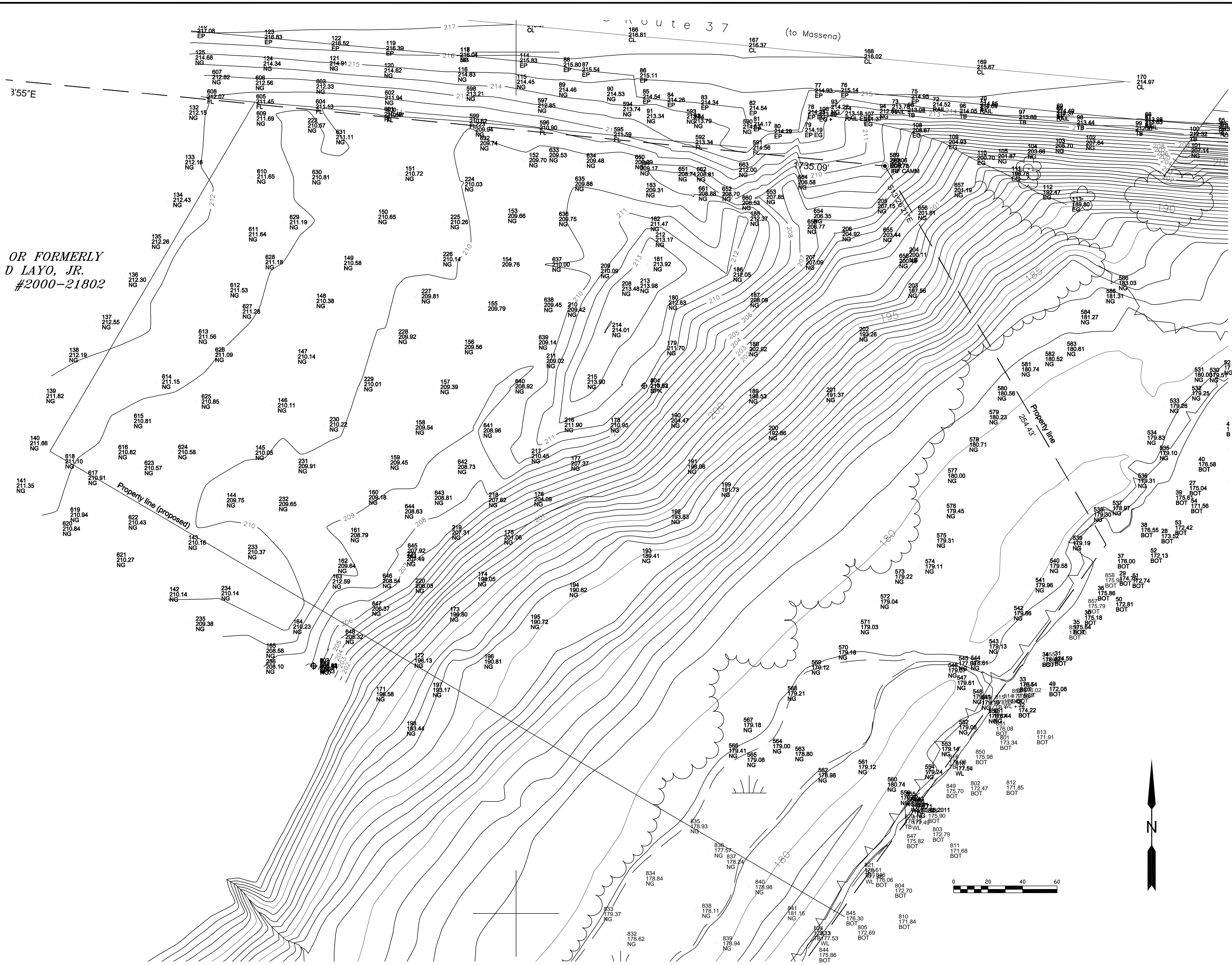


KEYPLAN	SEAL	SEAL
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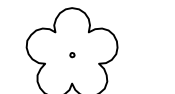

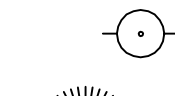



ST. LAWRENCE COUNTY, NEW YORK
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 RIVER ACCESS IMPROVEMENTS
 ROUTE 37 BRIDGE

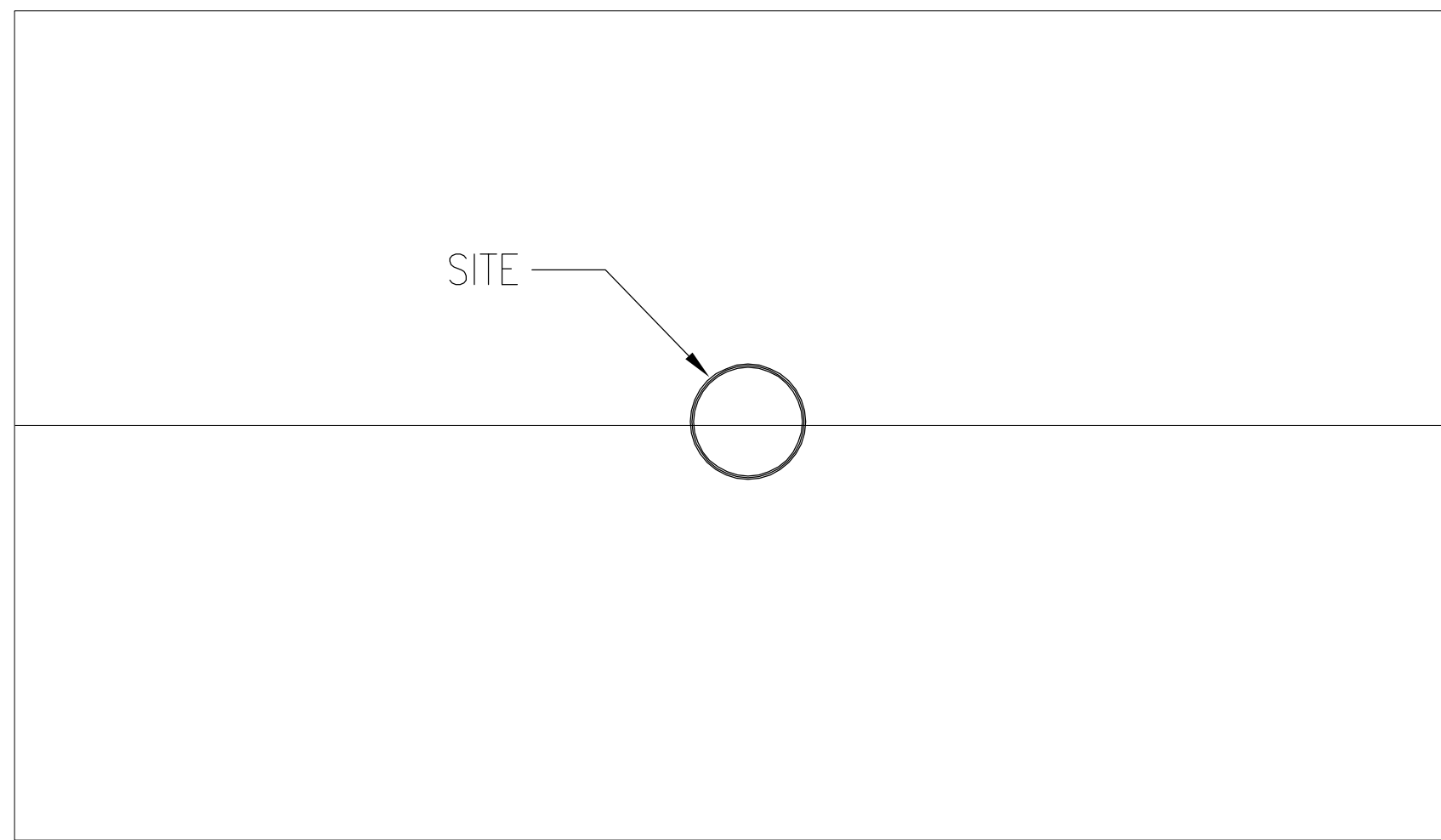
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SHEET TITLE COVER SHEET & INDEX		TASK/PHASE NUMBER Project Task	DRAWN BY FRamps
PROJECT NUMBER B0010877		DRAWING NUMBER T-1 OF	



EXISTING CONDITIONS PLAN

LEGEND

-  Tree - miscellaneous
-  Headwall
-  Utility pole
-  Evergreen tree
-  FH
-  Hydrant



LOCATION MAP

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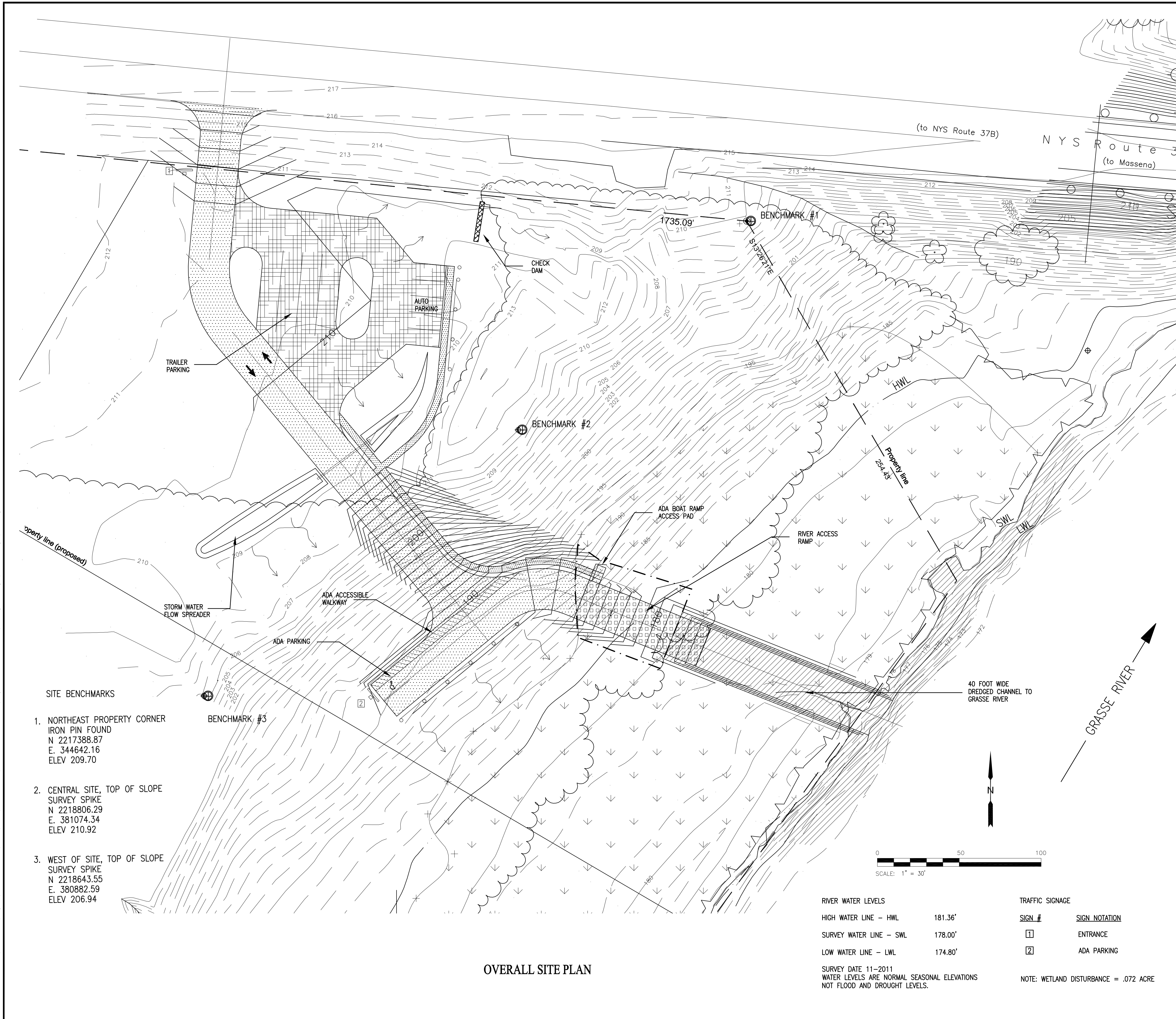


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REV. ISSUED DATE DESCRIPTION		

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 RT. 37 BRIDGE

PROJECT MANAGER DCasey	DEPARTMENT MANAGER DCastele	LEAD DESIGN PROF. FRamps	CHECKED BY Checked By
SHEET TITLE EXISTING CONDITIONS PLAN		TASK/PHASE NUMBER Project Task	DRAWN BY FRamps
PROJECT NUMBER B0010877		DRAWING NUMBER C-0	OF OF



- SITE BENCHMARKS**
1. NORTHEAST PROPERTY CORNER
IRON PIN FOUND
N 2217388.87
E. 344642.16
ELEV 209.70
 2. CENTRAL SITE, TOP OF SLOPE
SURVEY SPIKE
N 2218806.29
E. 381074.34
ELEV 210.92
 3. WEST OF SITE, TOP OF SLOPE
SURVEY SPIKE
N 2218643.55
E. 380882.59
ELEV 206.94

RIVER WATER LEVELS

HIGH WATER LINE - HWL	181.36'
SURVEY WATER LINE - SWL	178.00'
LOW WATER LINE - LWL	174.80'

SURVEY DATE 11-2011
WATER LEVELS ARE NORMAL SEASONAL ELEVATIONS
NOT FLOOD AND DROUGHT LEVELS.

TRAFFIC SIGNAGE

SIGN #	SIGN NOTATION
1	ENTRANCE
2	ADA PARKING

NOTE: WETLAND DISTURBANCE = .072 ACRE

SITE DEVELOPMENT ELEMENTS

MUNICIPALITY: TOWN OF LOUISVILLE, NEW YORK
PROJECT NAME: ROUTE 37 BRIDGE RECREATIONAL RIVER ACCESS IMPROVEMENTS
OWNER OF RECORD: REYNOLDS METALS COMPANY
ALCOA INC. TP&A SECTION 65E28
77H STREET BRIDGE
201 ISABELLE STREET
PITTSBURGH, PENNSYLVANIA 15212
DESIGNER/ENGINEER: ARCADIS-US, INC
1100 SUPERIOR AVENUE, SUITE 1250
CLEVELAND, OHIO 44114

PROPERTY LOCATION: SITE IS LOCATED IMMEDIATELY SOUTH OF ROUTE 37 AND ADJACENT TO THE GRASSE RIVER TO THE SOUTH, APPROXIMATELY 1 MILE WEST OF THE INTERSECTION OF ROUTE 37 AND HAVERSTOCK ROAD. THE SITE INCLUDES APPROXIMATELY ACRES OF LAND LOCATED IN BLOCK 3, PARCEL NO. 83.

DEED RESTRICTIONS: NONE

PROPERTY USE: THE PROPERTY IS CURRENTLY BEING UTILIZED AS A REMOTE, UNIMPROVED ACCESS LOCATION TO THE GRASSE RIVER FOR CANOES, KAYAKS AND SMALL BOATS AS WELL AS RIVER EDGE FISHING. THE PROPOSED PROPERTY USAGE WILL REMAIN THE SAME. SITE IMPROVEMENTS WILL INCLUDE: PAVED ACCESS DRIVES, PARKING AND A RIVER ACCESS RAMP. LOCATION USAGE WILL REMAIN SEASONAL WITH ONLY SUMMER USAGE ANTICIPATED.

ZONING

ZONING DISTRICT	R-A RESIDENTIAL/AGRICULTURAL
PERMITTED USE	PUBLIC PARK
MINIMUM LOT AREA	N/A
YARD SETBACKS	N/A
OFF STREET PARKING	NONE NOTED
	PROVIDED - 6 TOTAL AUTO 1 ADA ACCESSIBLE 4 TRAILER

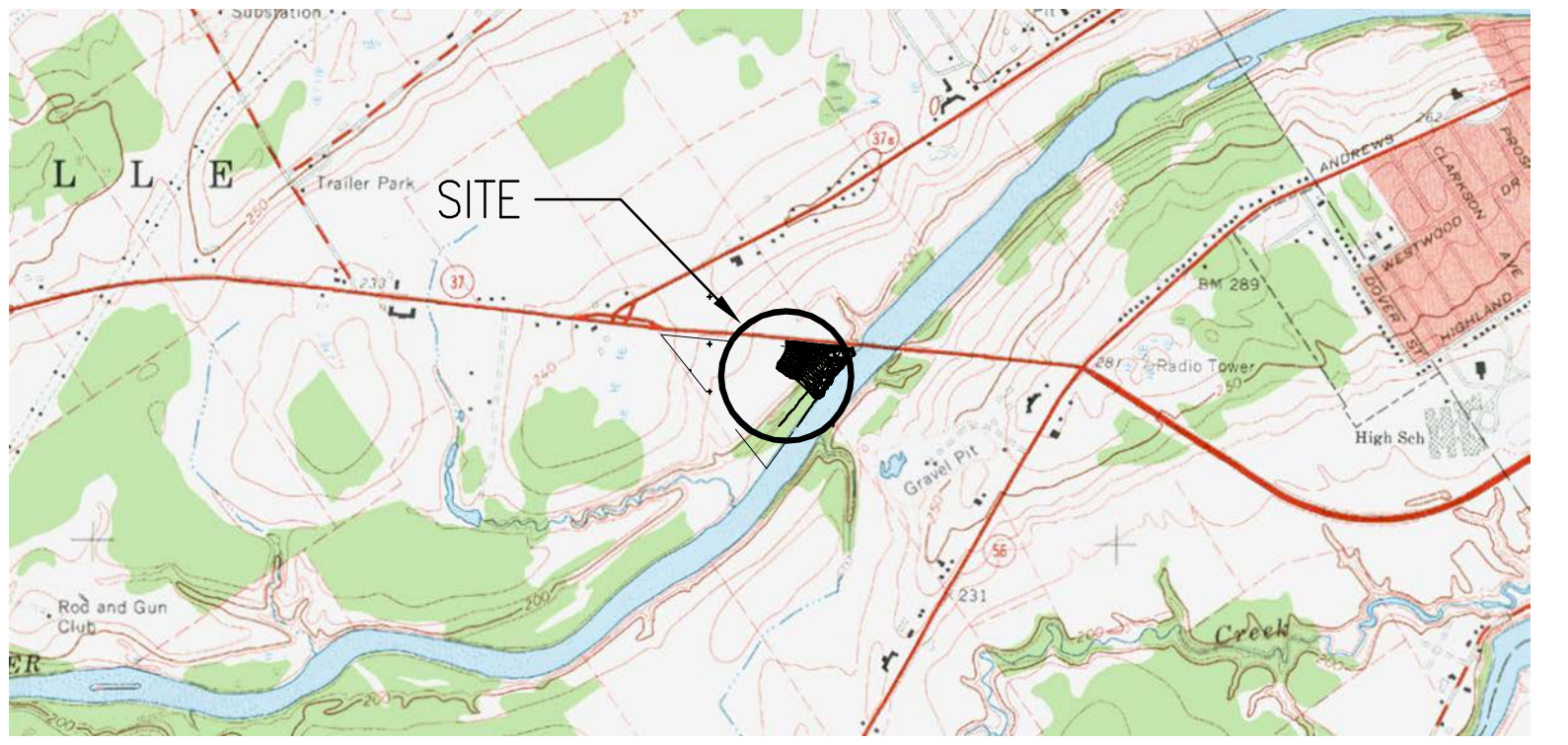
ADJACENT PROPERTY OWNERS

THERE IS ONE ADJOINING PROPERTY OWNER IMMEDIATELY ADJACENT TO THE SITE DEVELOPMENT AREA. PARCELS AND OWNERS THAT MAY BE IMPACTED BY THE PROJECT IMPROVEMENTS ARE LOCATED NORTH OF ROUTE 37 AND ACROSS THE GRASSE RIVER AND ARE NOTED BELOW:

15136 SH 37 BLOCK 3, PARCEL NO. 15 LLOYD LAYO JR. 125 MAPLE STREET MASSENA, NY 13662	16 SH 37B BLOCK 2, PARCEL NO. 84.2 RANDAL L. FREIMAN PO BOX 64 RAYMONDVILLE NY 13678	10175 SH 56 BLOCK 5, PARCEL NO. 2.1 MARIE H. LAVAN PO BOX 188 MASSENA, NY 13662
SH 37B BLOCK 2, PARCEL NO. 84.12 SHAWN & JODI L. BURKE 273 S. GRASSE RIVER RD. MASSENA, NY 13662	54 SH 37B BLOCK 2, PARCEL NO. 87 MILTON J. LANGLOIS 11 BOWER STREET MASSENA, NEW YORK 13662	10165 SH 56 BLOCK 5, PARCEL NO. 2.2 DONALD J. LAVAN II 10165 STATE HIGHWAY 56 MASSENA, NY 13662
10 SH 37B BLOCK 2, PARCEL NO. 84.11 MASSENA HUMANE SOCIETY PO BOX 145 MASSENA, NY 13662	19 OLD FARM CIRCLE BLOCK 2, PARCEL NO. 11.1 ROGER SULLIVAN 25 HOSPITAL DRIVE MASSENA, NY 13662	10123/10125 SH 56 BLOCK 5, PARCEL NO. 1.31 LINDA KUHN 10125 STATE HIGHWAY 56 MASSENA, NY 13662
SH 56 BLOCK 5, PARCEL NO. 15.3 JOHN R. BOYCE 10 URBAN DR MASSENA, NY 13662		

LEGEND

ASPHALT PAVEMENT	CONCRETE PAVEMENT	ROPE BARRIER
STONE PAVEMENT	EX. TREELINE	FLOW DIRECTION
ARTICULATED CONCRETE MAT	EX. CONTOURS	TRAFFIC SIGNS
WETLAND AREA	NEW CONTOURS	WETLANDS DISTURBANCE



OVERALL SITE PLAN

LOCATION MAP

Acad Version : R18.1s (LMS Tech)
 User Name : fframps
 © 2006 ARCADIS G&M, Inc
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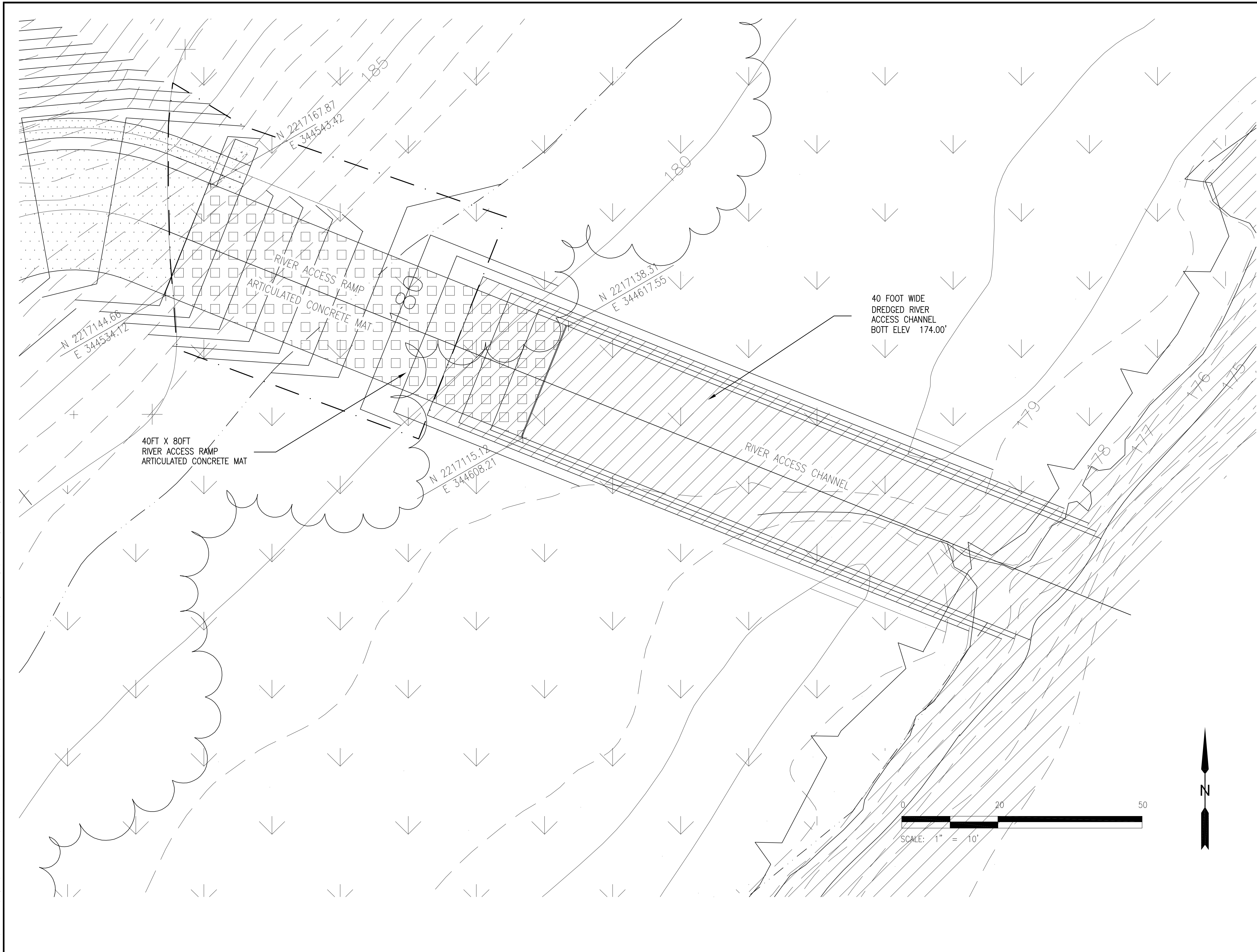


KEYPLAN	SEAL	SEAL
0 6-18-12 Work Plan		
REV. ISSUED DATE DESCRIPTION		

ARCADIS
6723 Towpath Road
Syracuse NY, 13214
315-764-2239

ST. LAWRENCE COUNTY, NEW YORK
NRD RECREATIONAL
RIVER ACCESS IMPROVEMENTS
RT. 37 BRIDGE

PROJECT MANAGER DCasey	DEPARTMENT MANAGER DCastele	LEAD DESIGN PROF. FRamps	CHECKED BY Checked By
SHEET TITLE OVERALL SITE PLAN		TASK/PHASE NUMBER Project Task	DRAWN BY FRamps
		PROJECT NUMBER B0010877	DRAWING NUMBER C-1 OF



ENLARGED SITE PLAN

- GENERAL NOTES**
1. ALL ADA ACCESSIBLE WALKWAYS WILL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 5% WITH A MINIMAL OR ZERO CROSS SLOPE.
 2. RIP RAP PROTECTION AT THE WOOD FISHING DECK SHALL BE A MINIMUM 400 LB STONE, SECURELY EMBEDDED INTO THE SOILS BELOW.
 3. WETLANDS DISTURBANCE SHALL BE STRICTLY LIMITED TO AREAS OUTLINED ON THIS PLAN.
 4. REFERENCE DRAWING C-3 FOR FURTHER DETAIL ON THE RIVER ACCESS RAMP.
 5. REFERENCE DRAWING C-4 FOR FURTHER DETAIL ON THE WOOD FISHING DECK.

SITE BENCHMARKS

1. NORTHEAST PROPERTY CORNER
IRON PIN FOUND
N 2217388.87
E. 344642.16
ELEV 209.70
2. CENTRAL SITE, TOP OF SLOPE
SURVEY SPIKE
N 2218806.29
E. 381074.34
ELEV 210.92
3. WEST OF SITE, TOP OF SLOPE
SURVEY SPIKE
N 2218643.55
E. 380882.59
ELEV 206.94

GRASSE RIVER NORMAL WATER ELEVATION = 178.00'

LEGEND

- | | | | |
|--|--------------------------|--|----------------------|
| | ASPHALT PAVEMENT | | EX. CONTOURS |
| | STONE PAVEMENT | | NEW CONTOURS |
| | ARTICULATED CONCRETE MAT | | ROPE BARRIER |
| | WETLAND AREA | | FLOW DIRECTION |
| | CONCRETE PAVEMENT | | TRAFFIC SIGNS |
| | EX. TREELINE | | WETLANDS DISTURBANCE |

Acad Version : R18.1s (LMS Tech) User Name : hromps © 2006 ARCADIS G&M, Inc. Date/Time : Thu, 14 Jun 2012 1:23:26m Current Plotstyle : Bycolor Layout Tab: Layout Path Name : G:\Project\00010877\002\Water\Access\Wetlands\RI_37_Bridges\C-2.dwg



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0	6-18-12	Work Plan

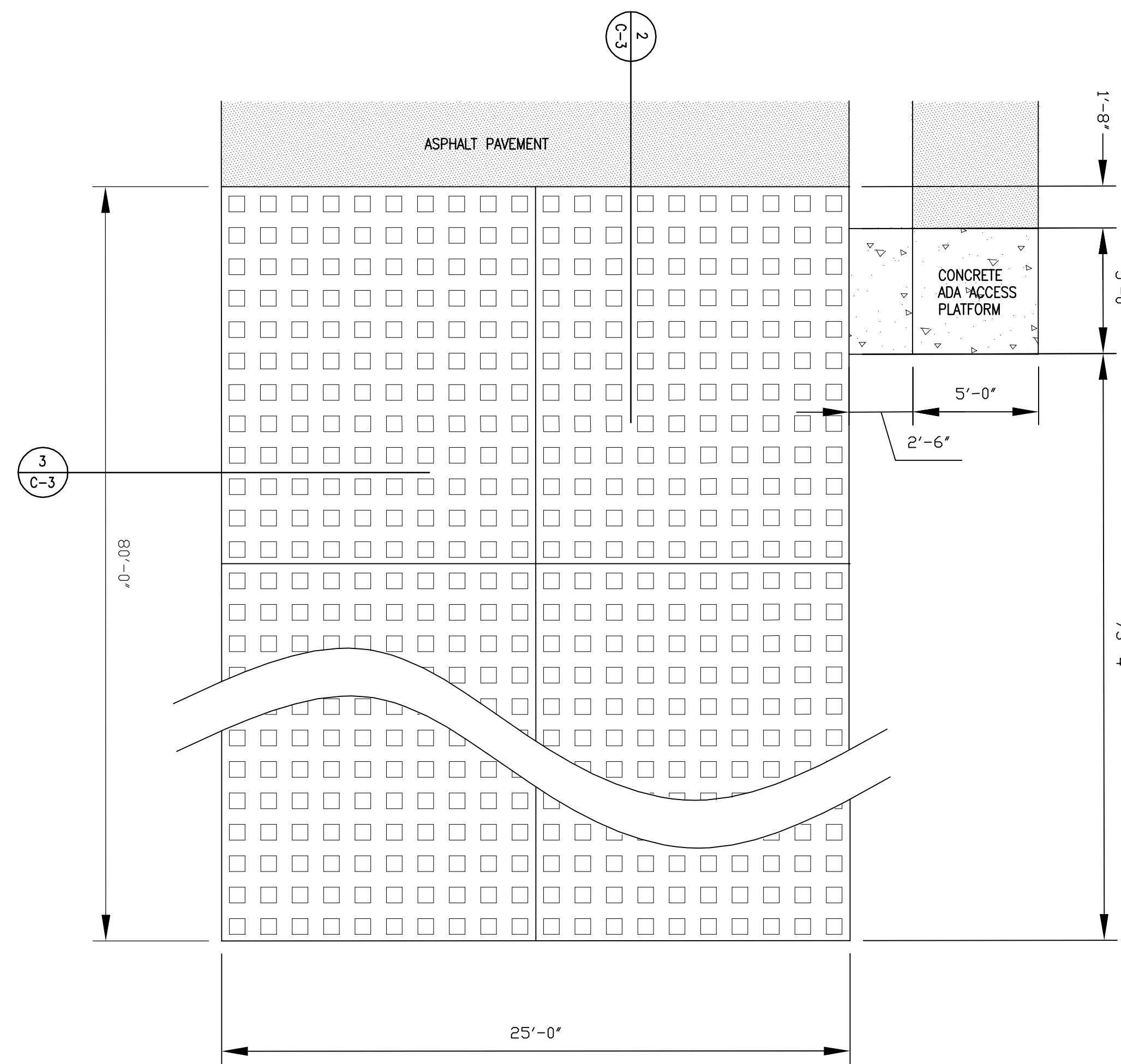
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 Syracuse NY, 13214
 315-764-2239

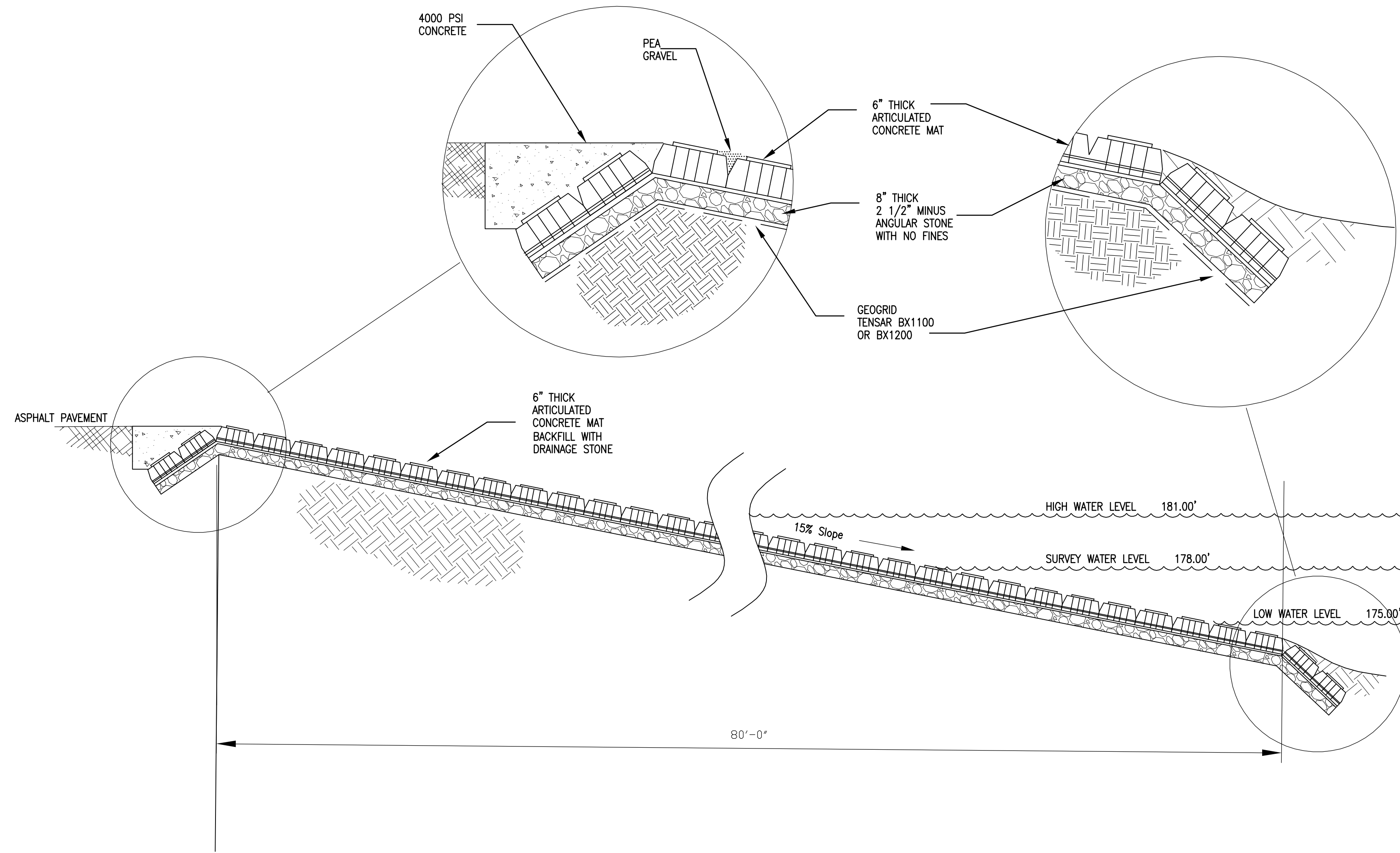
ST. LAWRENCE COUNTY, NEW YORK
 NRD RECREATIONAL
 RIVER ACCESS IMPROVEMENTS
 RT. 37 BRIDGE

PROJECT MANAGER
DCasey
 SHEET TITLE
**ENLARGED SITE PLAN
 RIVER EDGE**

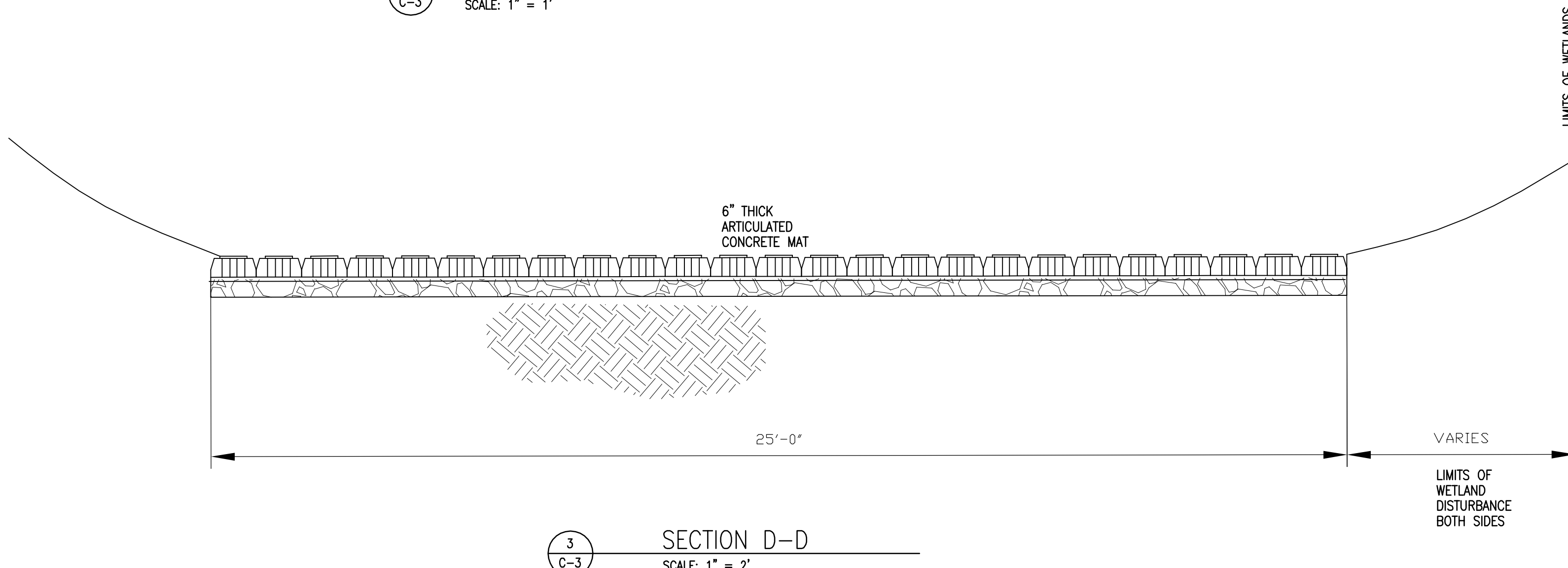
DEPARTMENT MANAGER
DCastele
 LEAD DESIGN PROF.
FRamps
 TASK/PHASE NUMBER
Project Task
 PROJECT NUMBER
B0010877
 CHECKED BY
Checked By
 DRAWN BY
FRamps
 DRAWING NUMBER
C-2
 SHEET OF



1 RIVER ACCESS RAMP PLAN
SCALE: 1" = 1'



2 SECTION A-A
SCALE: 1" = 2'



3 SECTION D-D
SCALE: 1" = 2'

RIVER ACCESS RAMP

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REV.	ISSUED DATE	DESCRIPTION
0	6-18-12	Work Plan

KEYPLAN	SEAL	SEAL
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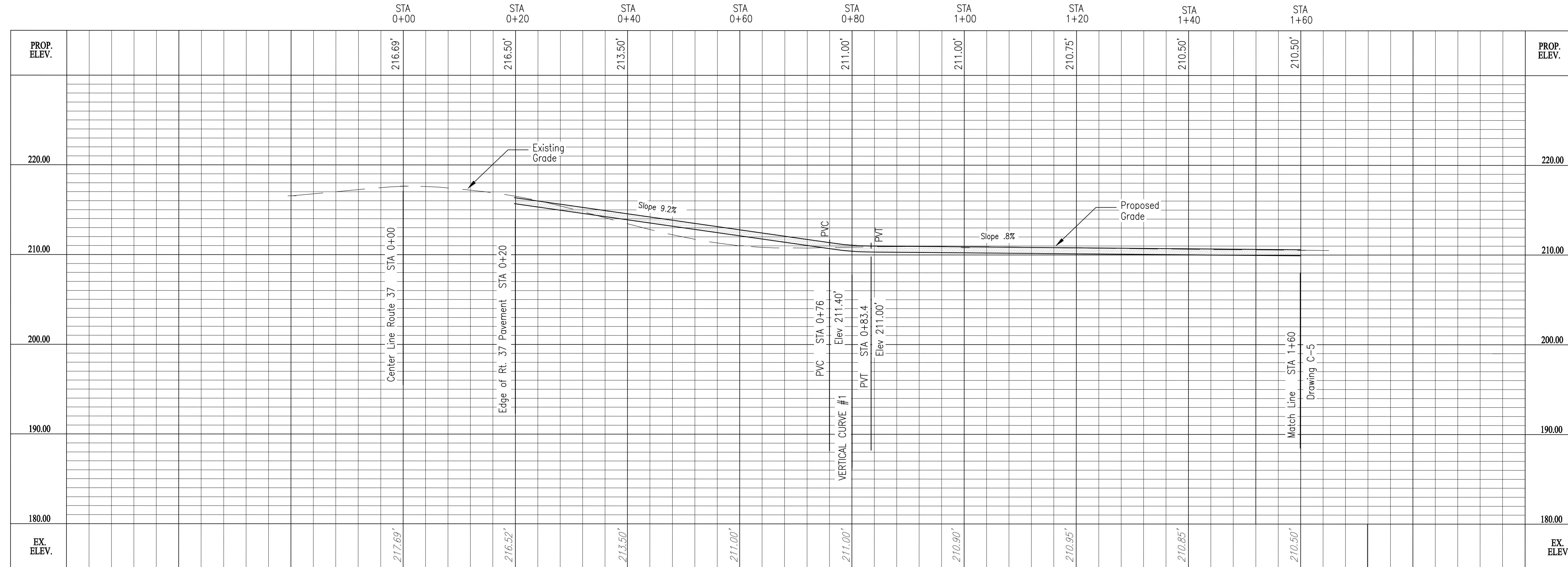
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 Syracuse NY, 13214
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 RIVER ACCESS IMPROVEMENTS
 ROUTE 37 BRIDGE

PROJECT MANAGER DCasey	DEPARTMENT MANAGER DCastele	LEAD DESIGN PROF. FRamps	CHECKED BY Checked By
SHEET TITLE RIVER EDGE IMPROVEMENTS RIVER ACCESS RAMP		TASK/PHASE NUMBER Project Task	DRAWN BY FRamps
		PROJECT NUMBER B0010877	DRAWING NUMBER C-3 OF



PLAN



PROFILE

SCALE:
 HORZ: 1" = 10'
 VERT: 1" = 6'

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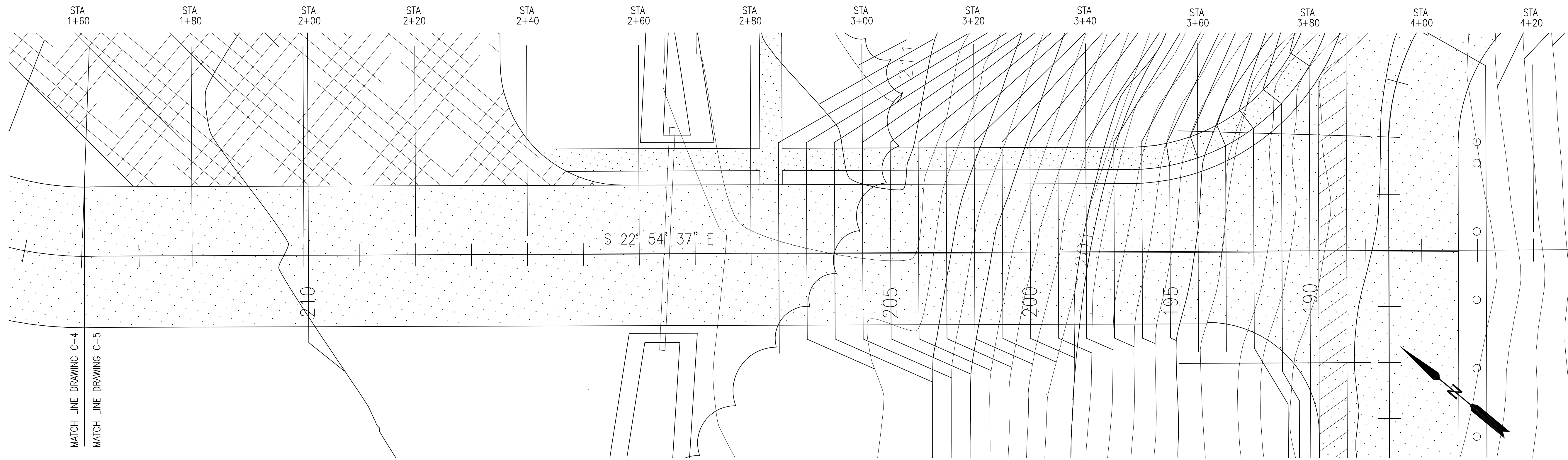
REV.	ISSUED DATE	DESCRIPTION
0	6-18-12	Work Plan

KEY PLAN	SEAL	SEAL
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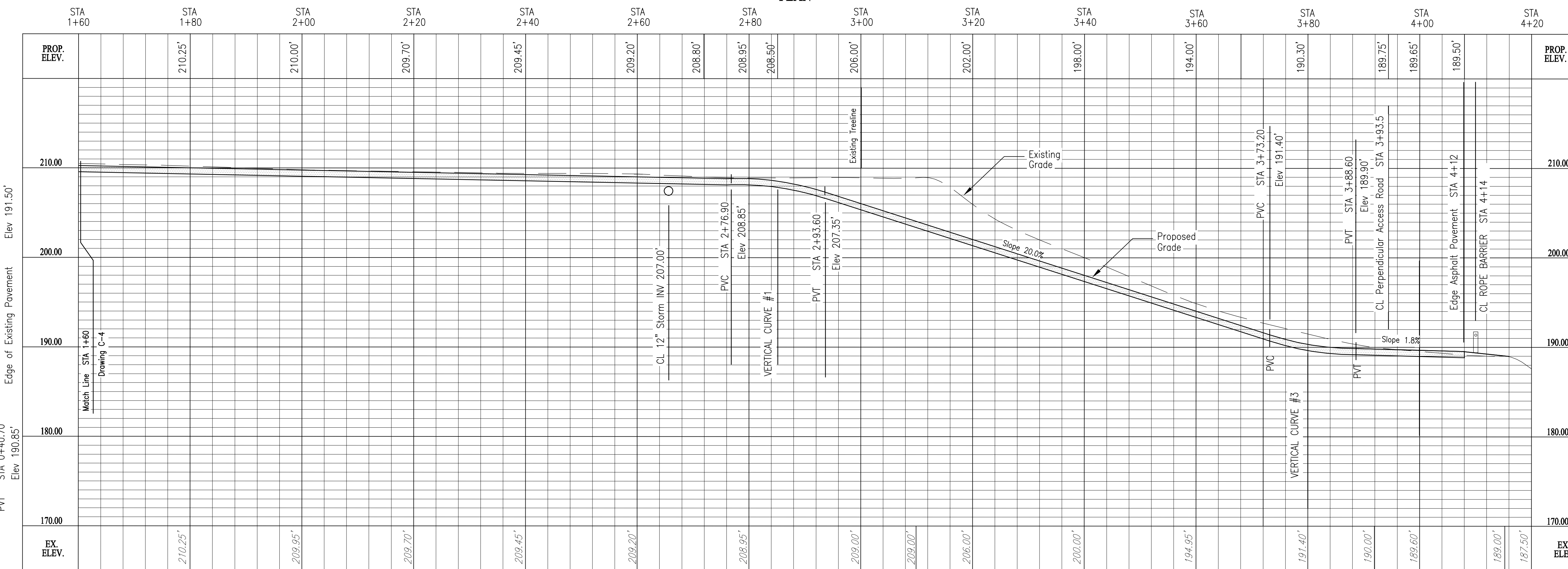
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 NRD RECREATIONAL
 RIVER ACCESS IMPROVEMENTS
 ROUTE 37 BRIDGE

PROJECT MANAGER DCasey	DEPARTMENT MANAGER DCastele	LEAD DESIGN PROF. FRamps	CHECKED BY Checked By
SHEET TITLE ACCESS ROAD PLAN/PROFILE		TASK/PHASE NUMBER Project Task	DRAWN BY FRamps
		PROJECT NUMBER B0010877	DRAWING NUMBER C-4
			OF



PLAN



PROFILE

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 HORZ: 1" = 10'
 VERT: 1" = 6'

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 Acad Version: R18.1s (LMS Tech)
 © 2006 ARCADIS G&M, Inc.
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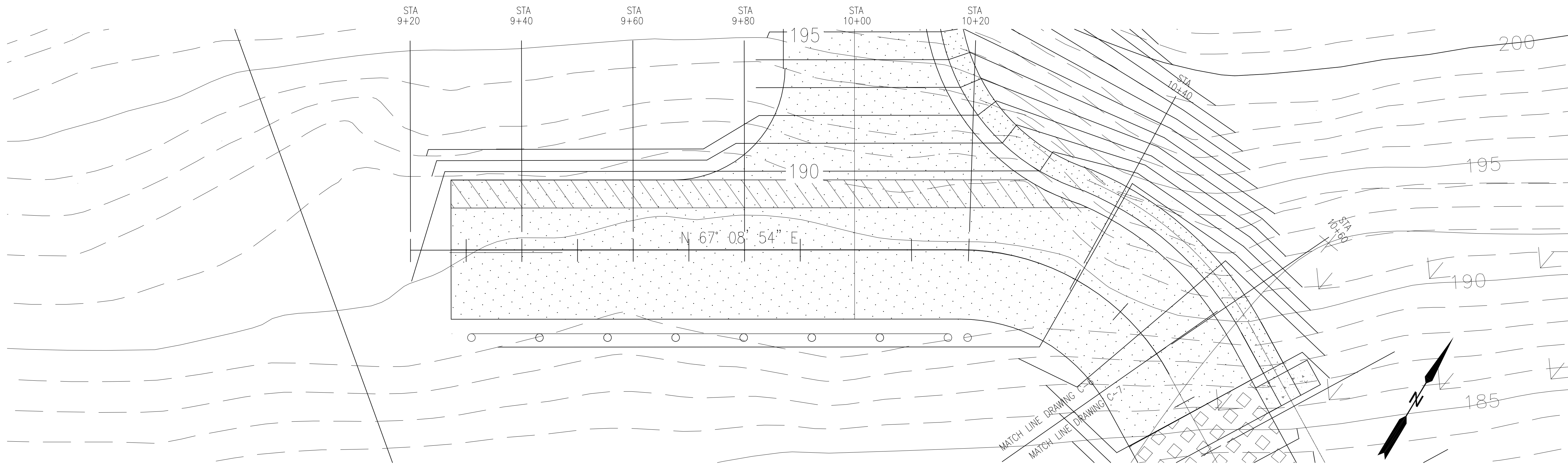
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0	6-18-12	Work Plan

KEYPLAN	SEAL	SEAL
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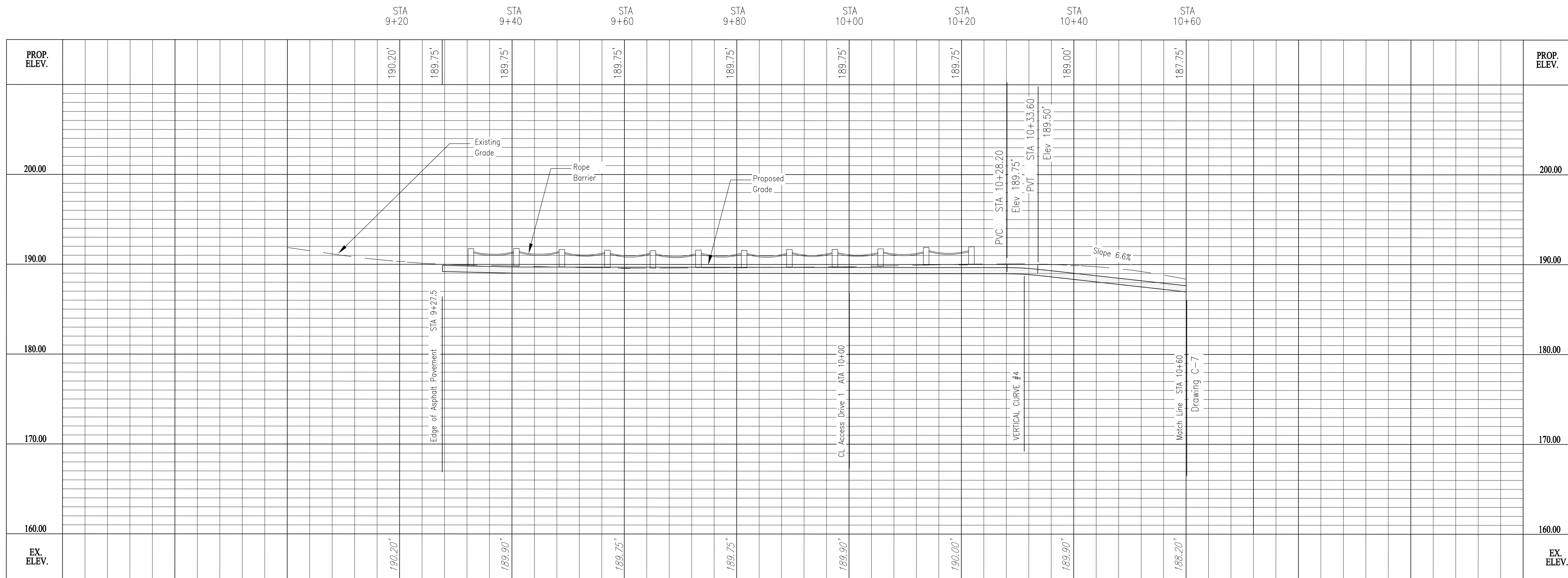
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 ROUTE 37 BRIDGE

PROJECT MANAGER DCasey	DEPARTMENT MANAGER DCastele	LEAD DESIGN PROF. FRamps	CHECKED BY Checked By
SHEET TITLE ACCESS ROAD PLAN/PROFILE		TASK/PHASE NUMBER Project Task	DRAWN BY FRamps
PROJECT NUMBER B0010877		DRAWING NUMBER C-5 OF	



PLAN



PROFILE

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 VERT: 1" = 6'

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Acad Version : R18.1s (LMS Tech)
 User Name : framps

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REV.	ISSUED DATE	DESCRIPTION
0	6-18-12	Work Plan

KEYPLAN

SEAL

SEAL

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ST. LAWRENCE COUNTY, NEW YORK
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 RIVER ACCESS IMPROVEMENTS
 ROUTE 37 BRIDGE

PROJECT MANAGER
DCasey

SHEET TITLE
**ACCESS ROAD
 PLAN/PROFILE**

DEPARTMENT MANAGER
DCastelle

LEAD DESIGN PROF.
FRamps

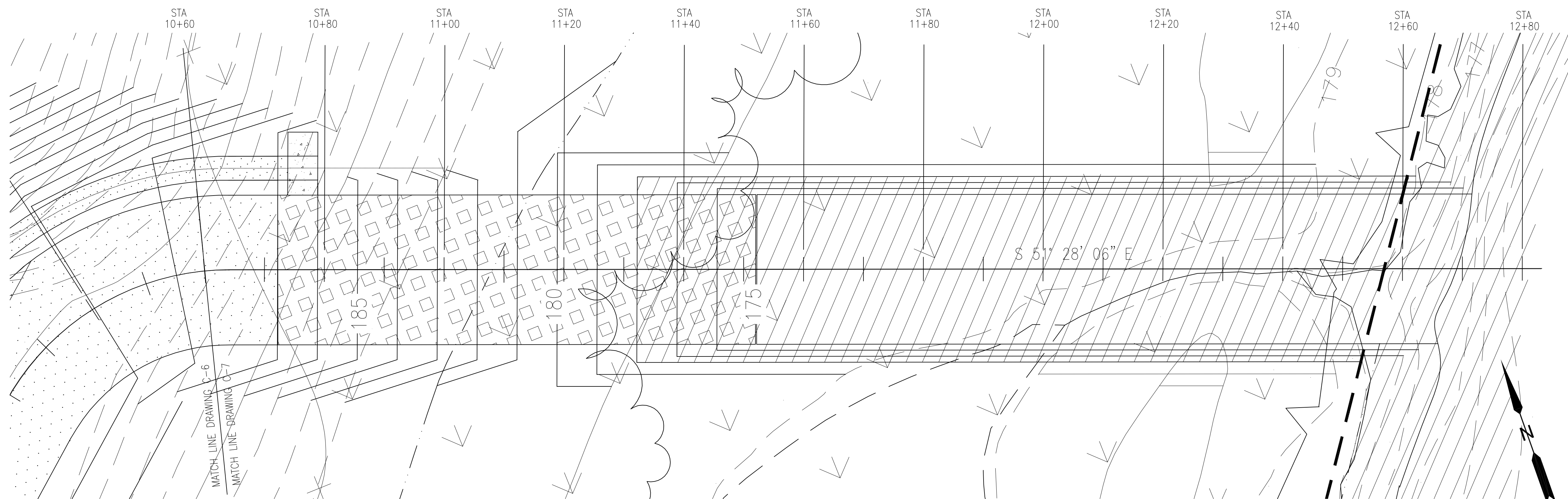
TASK/PHASE NUMBER
Project Task

PROJECT NUMBER
B0010877

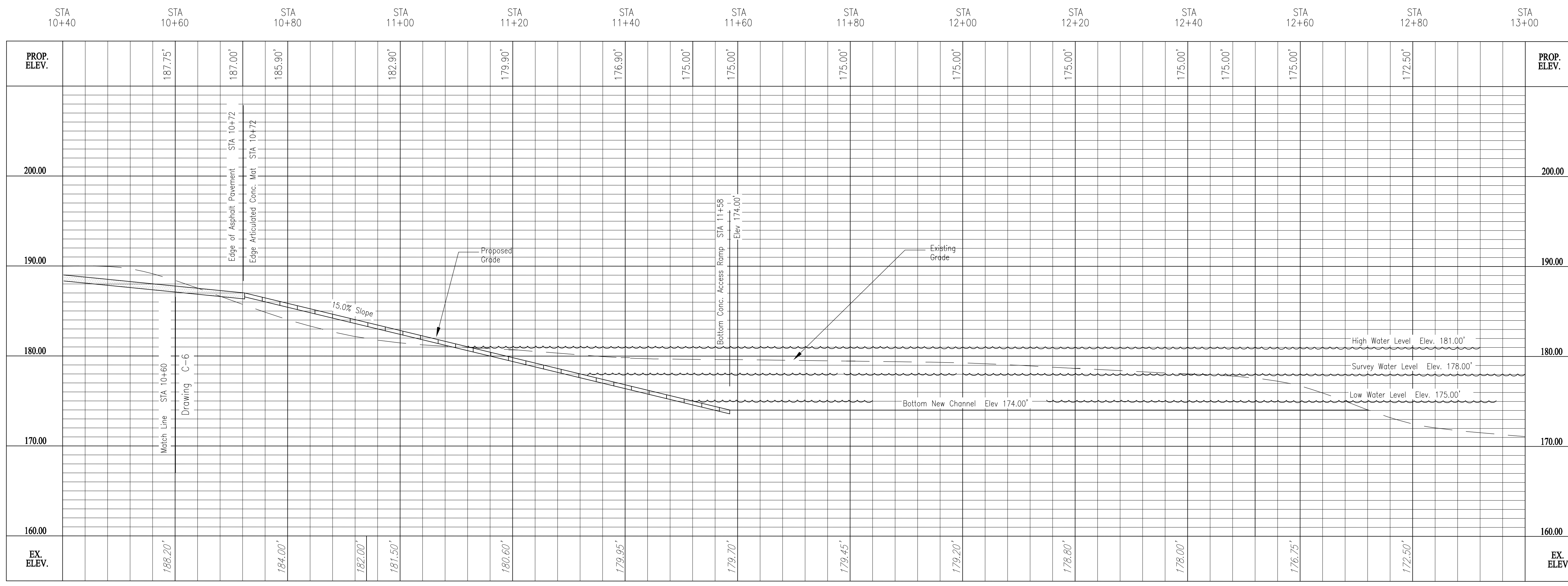
CHECKED BY
Checked By

DRAWN BY
FRamps

DRAWING NUMBER
C-6
 SHEET OF



PLAN



PROFILE

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 Layout Tab: Layout1
 Project Work: Phase 3 Working Drawings



0	6-18-12	Work Plan
REV.	ISSUED DATE	DESCRIPTION

KEYPLAN	SEAL	SEAL
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ST. LAWRENCE COUNTY, NEW YORK
 NRD RECREATIONAL
 RIVER ACCESS IMPROVEMENTS
 ROUTE 37 BRIDGE

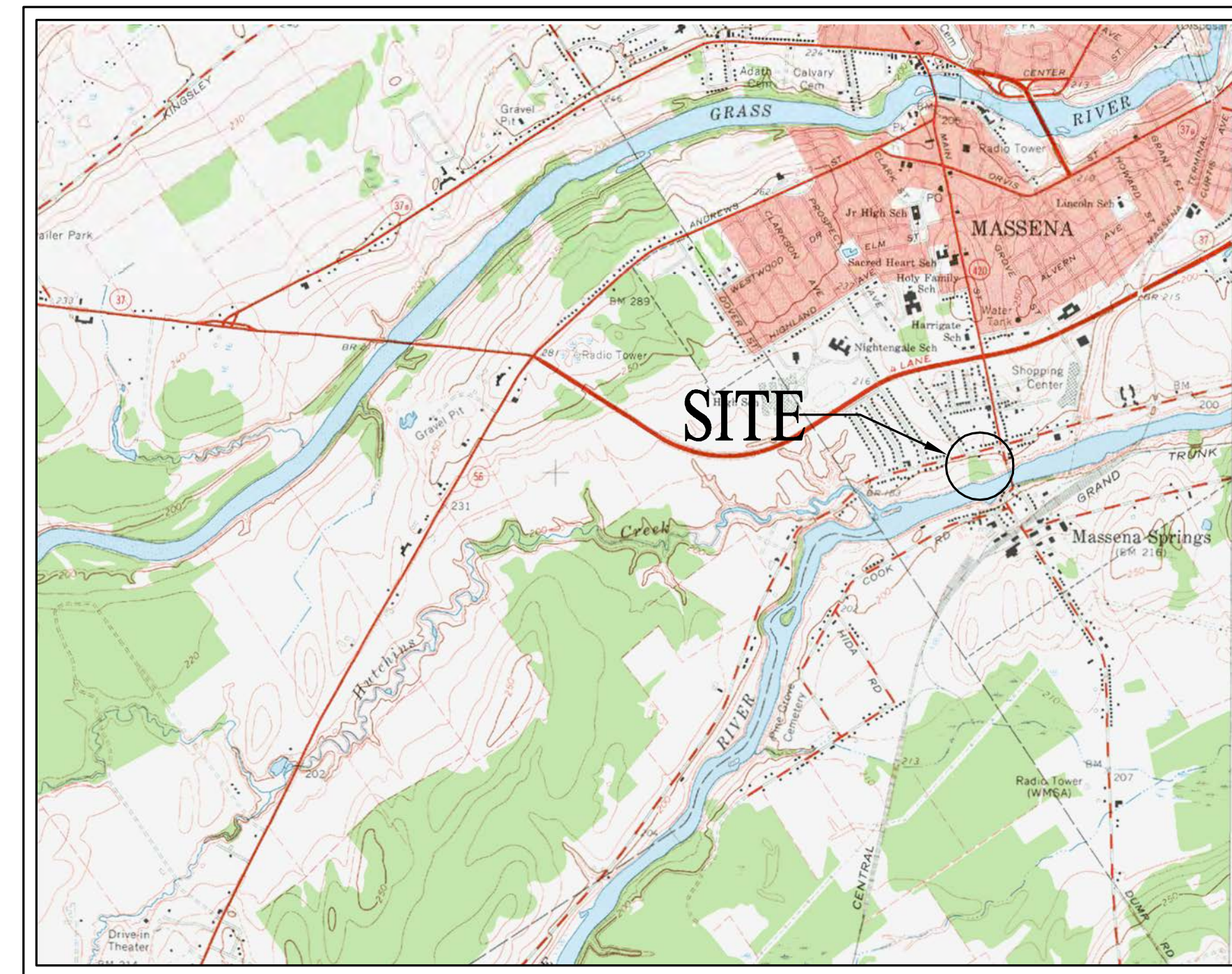
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		PROJECT NUMBER B0010877	DRAWING NUMBER C-7 OF

DRAWING INDEX

SHEET NO.	TITLE
T-1	COVER SHEET & INDEX
C-0	EXISTING CONDITIONS PLAN
C-1	OVERALL SITE PLAN
C-2	ENLARGED SITE PLAN
C-3	RIVER ACCESS RAMP
C-4	FLOATING PIER AND GANGWAY
C-5	ACCESS RAMP PLAN/PROFILE

WORK PLAN

NRD RECREATIONAL RIVER ACCESS IMPROVEMENTS SPRINGS PARK



VICINITY MAP



LOCATION MAP

Date/Time : Thu, 14 Jun 2012 1:05pm
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 Current Plotstyle : ByColor
 User Name : J. B. Casey

Acad Version : R18.1s (LMS Tech)
 User Name : fframps

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REV.	ISSUED DATE	DESCRIPTION
0	6-18-12	Work Plan

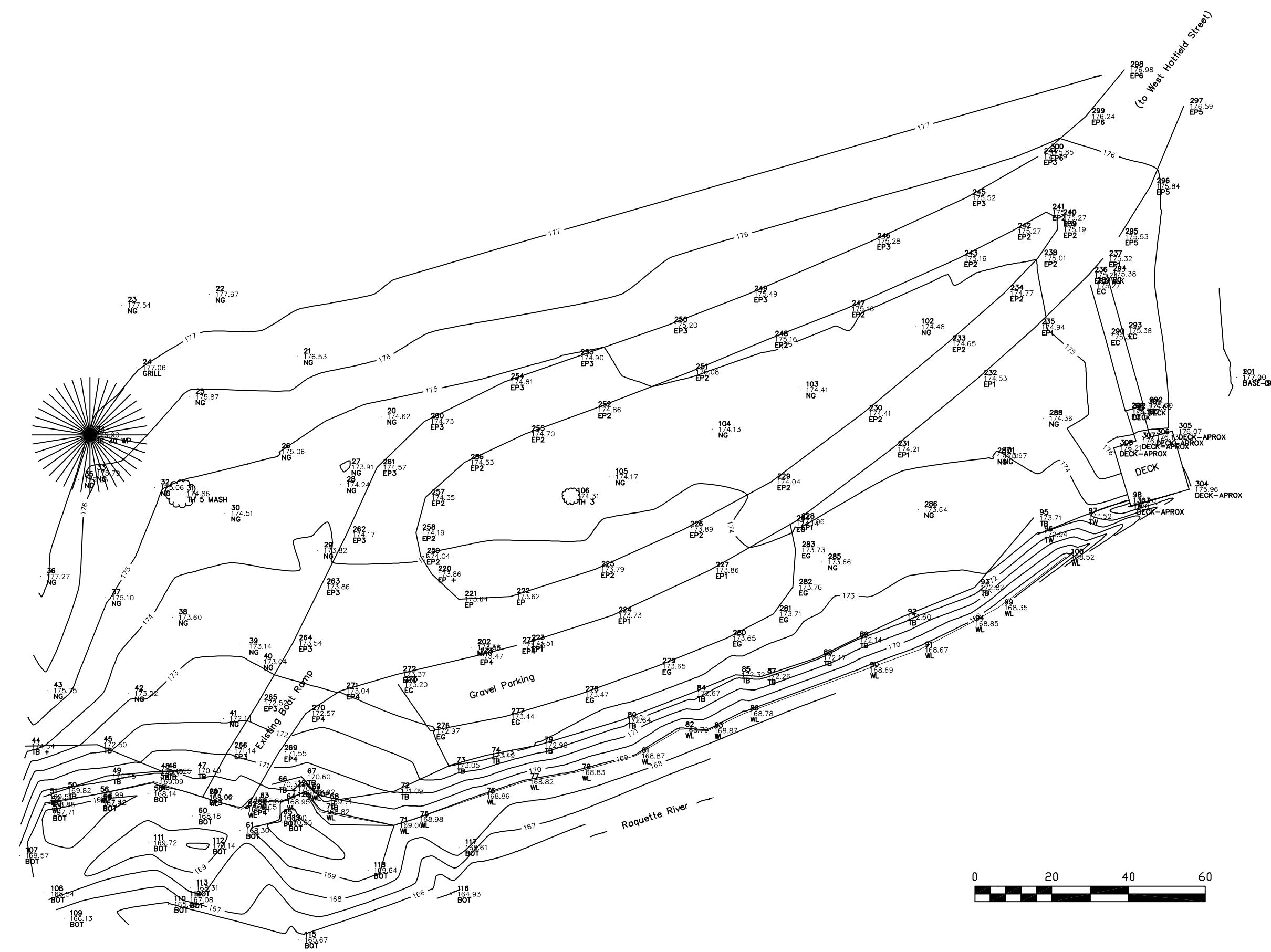
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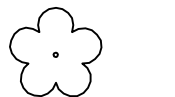

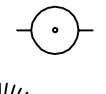


SEAL	SEAL
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ST. LAWRENCE COUNTY, NEW YORK
 NRD RECREATIONAL
 RIVER ACCESS IMPROVEMENTS
 SPRINGS PARK

PROJECT MANAGER DCasey	DEPARTMENT MANAGER DCastele	LEAD DESIGN PROF. FRamps	CHECKED BY Checked By
SHEET TITLE COVER SHEET & INDEX		TASK/PHASE NUMBER Project Task	DRAWN BY FRamps
PROJECT NUMBER B0010877		DRAWING NUMBER T-1 OF	



- LEGEND**
-  Tree - miscellaneous
 -  Headwall
 -  Utility pole
 -  Evergreen tree
 -  FH Hydrant



LOCATION MAP

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Acad Version : R18.1s (LM6 Tech)
 User Name : ftramps
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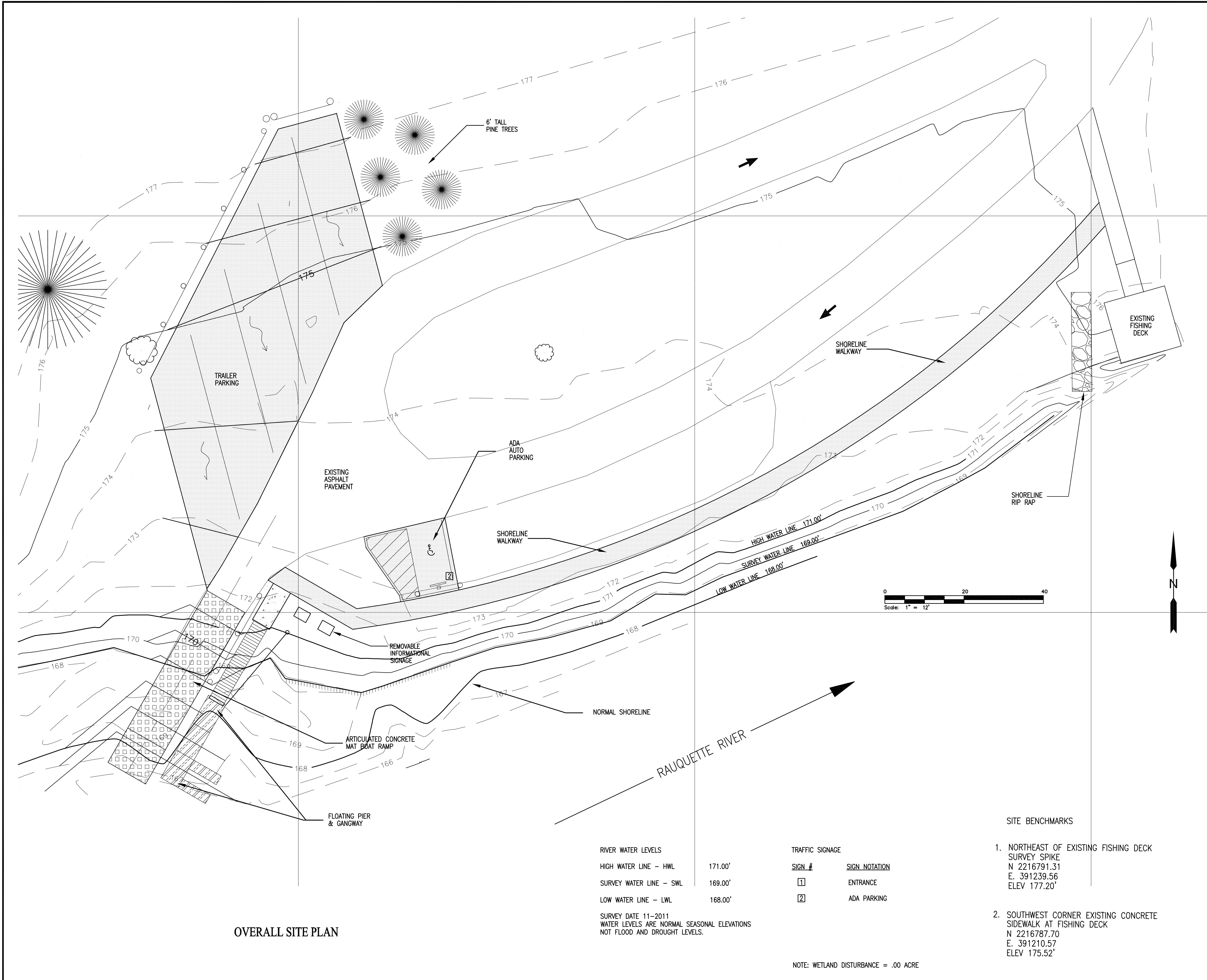


KEYPLAN	SEAL	SEAL
- - -		
0 6-18-12 Work Plan		
REV. ISSUED DATE DESCRIPTION		

ARCADIS
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 RIVER ACCESS IMPROVEMENTS
 SPRINGS PARK

PROJECT MANAGER DCasey	DEPARTMENT MANAGER DCastele	LEAD DESIGN PROF. FRamps	CHECKED BY Checked By
SHEET TITLE EXISTING CONDITIONS PLAN		TASK/PHASE NUMBER Project Task	DRAWN BY FRamps
		PROJECT NUMBER B0010877	DRAWING NUMBER C-0
			SHEET OF



OVERALL SITE PLAN

RIVER WATER LEVELS

HIGH WATER LINE - HWL	171.00'
SURVEY WATER LINE - SWL	169.00'
LOW WATER LINE - LWL	168.00'

SURVEY DATE 11-2011
WATER LEVELS ARE NORMAL SEASONAL ELEVATIONS
NOT FLOOD AND DROUGHT LEVELS.

TRAFFIC SIGNAGE

SIGN #	SIGN NOTATION
1	ENTRANCE
2	ADA PARKING

- SITE BENCHMARKS
- NORTHEAST OF EXISTING FISHING DECK
SURVEY SPIKE
N 2216791.31
E 391239.56
ELEV 177.20'
 - SOUTHWEST CORNER EXISTING CONCRETE
SIDEWALK AT FISHING DECK
N 2216787.70
E 391210.57
ELEV 175.52'

NOTE: WETLAND DISTURBANCE = .00 ACRE

SITE DEVELOPMENT ELEMENTS

MUNICIPALITY:	VILLAGE OF MASSENA, NEW YORK
PROJECT NAME:	SPRINGS PARK RECREATIONAL RIVER ACCESS IMPROVEMENTS
OWNER OF RECORD:	VILLAGE OF MASSENA VILLAGE CLERK 60 MAIN STREET MASSENA, NY 13662
DESIGNER/ENGINEER:	ARCADIS-US, INC 1100 SUPERIOR AVENUE, SUITE 1250 CLEVELAND, OHIO 44114
PROPERTY LOCATION:	SITE IS LOCATED WITHIN SPRINGS PARK IN THE VILLAGE OF MASSENA AND ADJACENT TO THE RAQUETTE RIVER. THE PARK IS LOCATED NEAR THE INTERSECTION OF W. HATFIELD STREET AND S. MAIN STREET. THE DISTURBED AREA WILL BE LESS THAN ONE ACRE.
DEED RESTRICTIONS:	NONE
PROPERTY USE:	THE PROPERTY IS CURRENTLY BEING UTILIZED AS A RIVER ACCESS LOCATION TO THE RAQUETTE RIVER FOR CANOES, KAYAKS AND SMALL BOATS AS WELL AS RIVER EDGE FISHING. THE PROPOSED PROPERTY USAGE WILL REMAIN THE SAME. SITE IMPROVEMENTS WILL INCLUDE: PAVED TRAILER AND AUTO PARKING, A PAVED RIVER EDGE PATH, FLOATING DOCK AND A RIVER ACCESS RAMP. LOCATION USAGE WILL REMAIN SEASONAL WITH ONLY SUMMER USAGE ANTICIPATED.
ZONING	
ZONING DISTRICT	R-A RESIDENTIAL/AGRICULTURAL
PERMITTED USE	PUBLIC PARK
MINIMUM LOT AREA	N/A
YARD SETBACKS	N/A
OFF STREET PARKING	NONE NOTED
	PROVIDED - 8 TOTAL AUTO (EXISTING) 1 ADA ACCESSIBLE 5 TRAILER

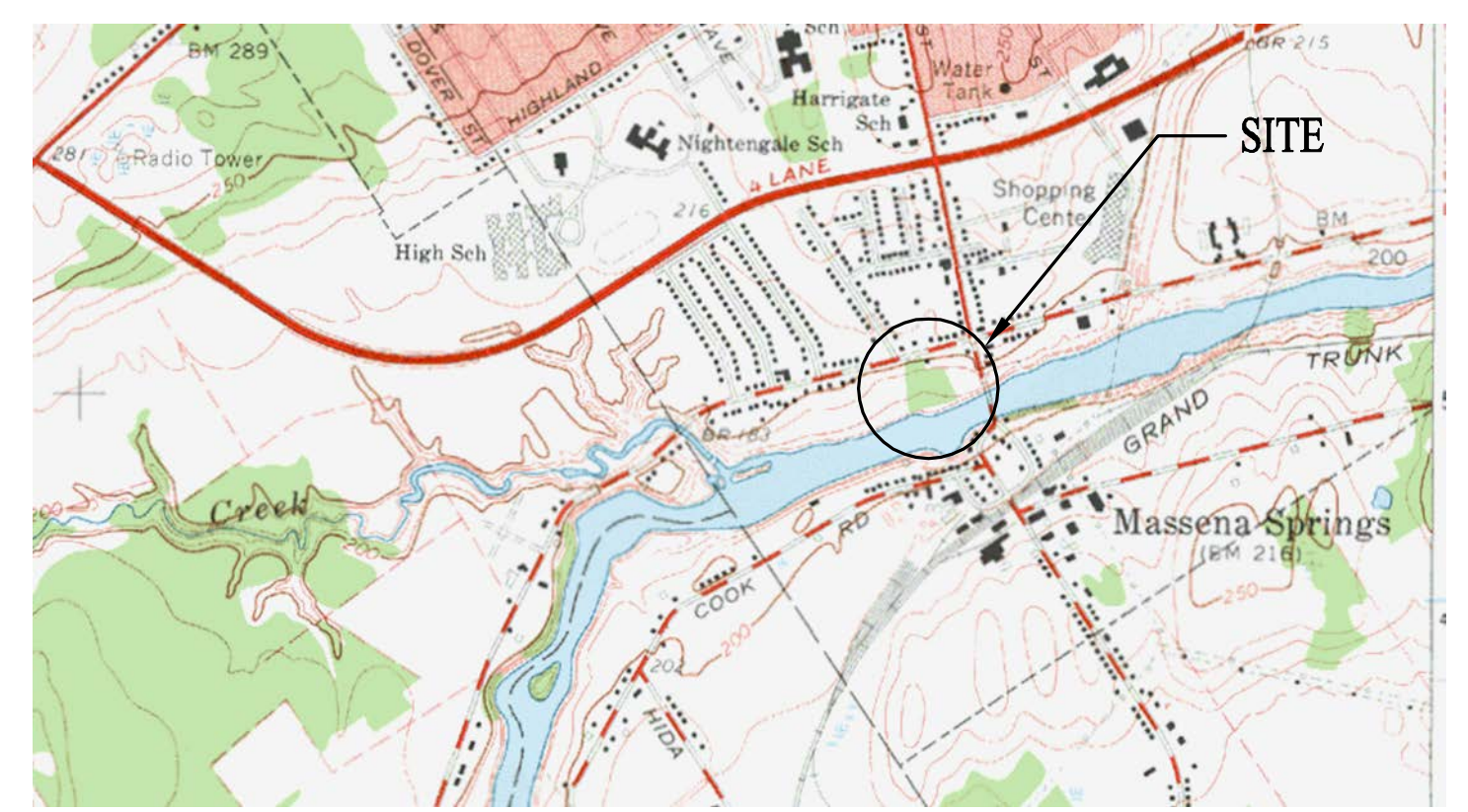
ADJACENT PROPERTY OWNERS

THERE IS THREE ADJOINING PROPERTY OWNERS IMMEDIATELY ADJACENT TO THE SITE DEVELOPMENT AREA. PARCELS AND OWNERS THAT MAY BE IMPACTED BY THE PROJECT IMPROVEMENTS ARE LOCATED ACROSS THE RAQUETTE RIVER. THESE PARCELS ARE NOTED BELOW:

W. HATFIELD STREET BLOCK 5, PARCEL NO. 14.1/16 VILLAGE OF MASSENA 60 MAIN STREET MASSENA, NY 13662	443 S. MAIN STREET BLOCK 9, PARCEL NO. 21 FOUR-TWO MARKET, INC. 42 MARKET STREET POTS DAM, NY 13767	20 COOK STREET BLOCK 9, PARCEL NO. MICHAEL GUYETTE, MELISSA CRUMP 380 HIGHLAND ROAD MASSENA, NY 13662
29 W. HATFIELD STREET BLOCK 5, PARCEL NO. 5 TERRY M. THOMPSON 130 JEFFERSON AVENUE MASSENA, NY 13662	476 S. MAIN STREET BLOCK 9, PARCEL NO. 7 ANDREW SOLITAR, SUSAN RAU 178 FAYETTE ROAD MASSENA, NY 13662	28 COOK STREET BLOCK 9, PARCEL NO. EDWARD N. & EMILY FRANK 28 COOK STREET MASSENA, NY 13662
22 W. HATFIELD STREET BLOCK 5, PARCEL NO. 18.1 ISABELLE WHITE 103 FLEETWOOD LANE MINOA, NY 13116	16 COOK ROAD BLOCK 9, PARCEL NO. MICHAEL D. LABIER 16 COOK STREET MASSENA, NY 13662	

LEGEND

	ASPHALT PAVEMENT		CONCRETE PAVEMENT		ROPE BARRIER
	STONE PAVEMENT		EX. TREELINE		FLOW DIRECTION
	ARTICULATED CONCRETE MAT		EX. CONTOURS		TRAFFIC SIGNS
	WETLAND AREA		NEW CONTOURS		WETLANDS DISTURBANCE



LOCATION MAP

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 © 2006 ARCADIS C&M, Inc.
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REV.	ISSUED DATE	DESCRIPTION
0	6-18-12	Work Plan

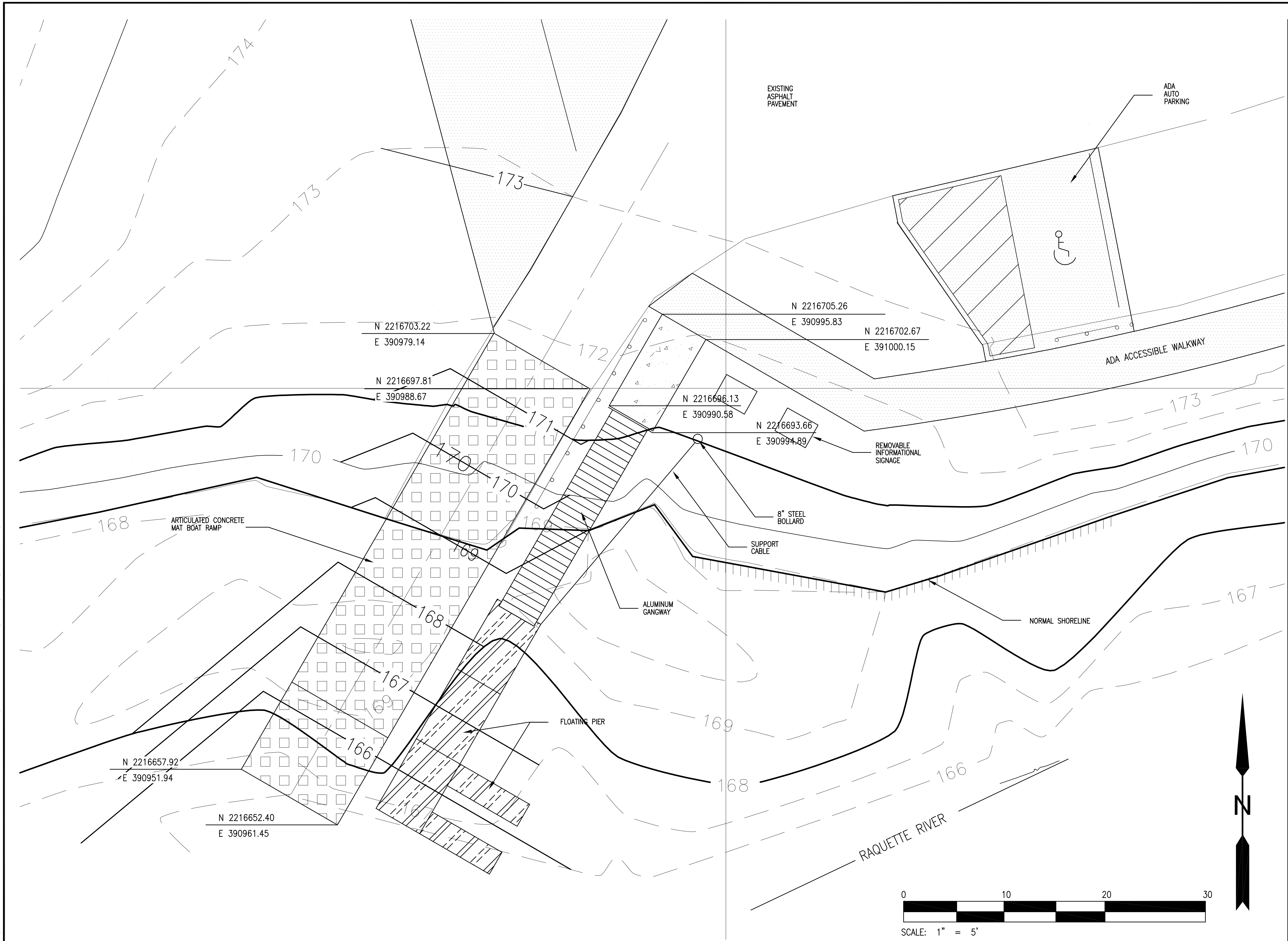
KEYPLAN	SEAL	SEAL
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Syracuse NY, 13214
315-764-2239

ST. LAWRENCE COUNTY, NEW YORK
NRD RECREATIONAL
RIVER ACCESS IMPROVEMENTS
SPRINGS PARK

PROJECT MANAGER DCasey	DEPARTMENT MANAGER DCastele	LEAD DESIGN PROF. FRamps	CHECKED BY Checked By
SHEET TITLE OVERALL SITE PLAN		TASK/PHASE NUMBER Project Task	DRAWN BY FRamps
		PROJECT NUMBER B0010877	DRAWING NUMBER C-1 OF

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 © 2006 ARCADIS G&M, Inc
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 Plot: Plot



ENLARGED SITE PLAN

GENERAL NOTES

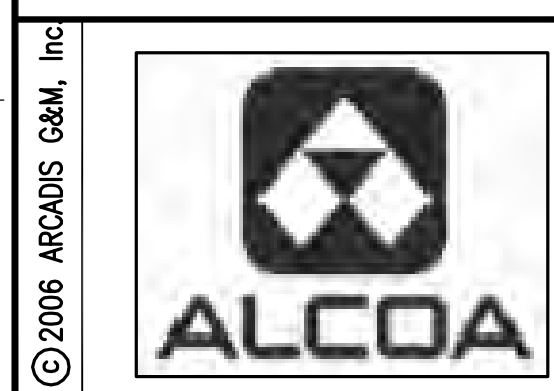
1. ALL ADA ACCESSIBLE WALKWAYS WILL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 5% WITH A MINIMAL OR ZERO CROSS SLOPE.
2. REFERENCE DRAWING C-3 FOR FURTHER DETAIL ON THE RIVER ACCESS RAMP.
3. REFERENCE DRAWING C-4 FOR FURTHER DETAIL ON THE FLOATING PIER AND GANGWAY.

SITE BENCHMARKS

1. NORTHEAST OF EXISTING FISHING DECK
SURVEY SPIKE
N 2216791.31
E. 391239.56
ELEV 177.20'
2. SOUTHWEST CORNER EXISTING CONCRETE SIDEWALK AT FISHING DECK
N 2216787.70
E. 391210.57
ELEV 175.52'

LEGEND

	ASPHALT PAVEMENT		CONCRETE PAVEMENT		ROPE BARRIER
	STONE PAVEMENT		EX. TREELINE		FLOW DIRECTION
	ARTICULATED CONCRETE MAT		EX. CONTOURS		TRAFFIC SIGNS
	WETLAND AREA		NEW CONTOURS		WETLANDS DISTURBANCE



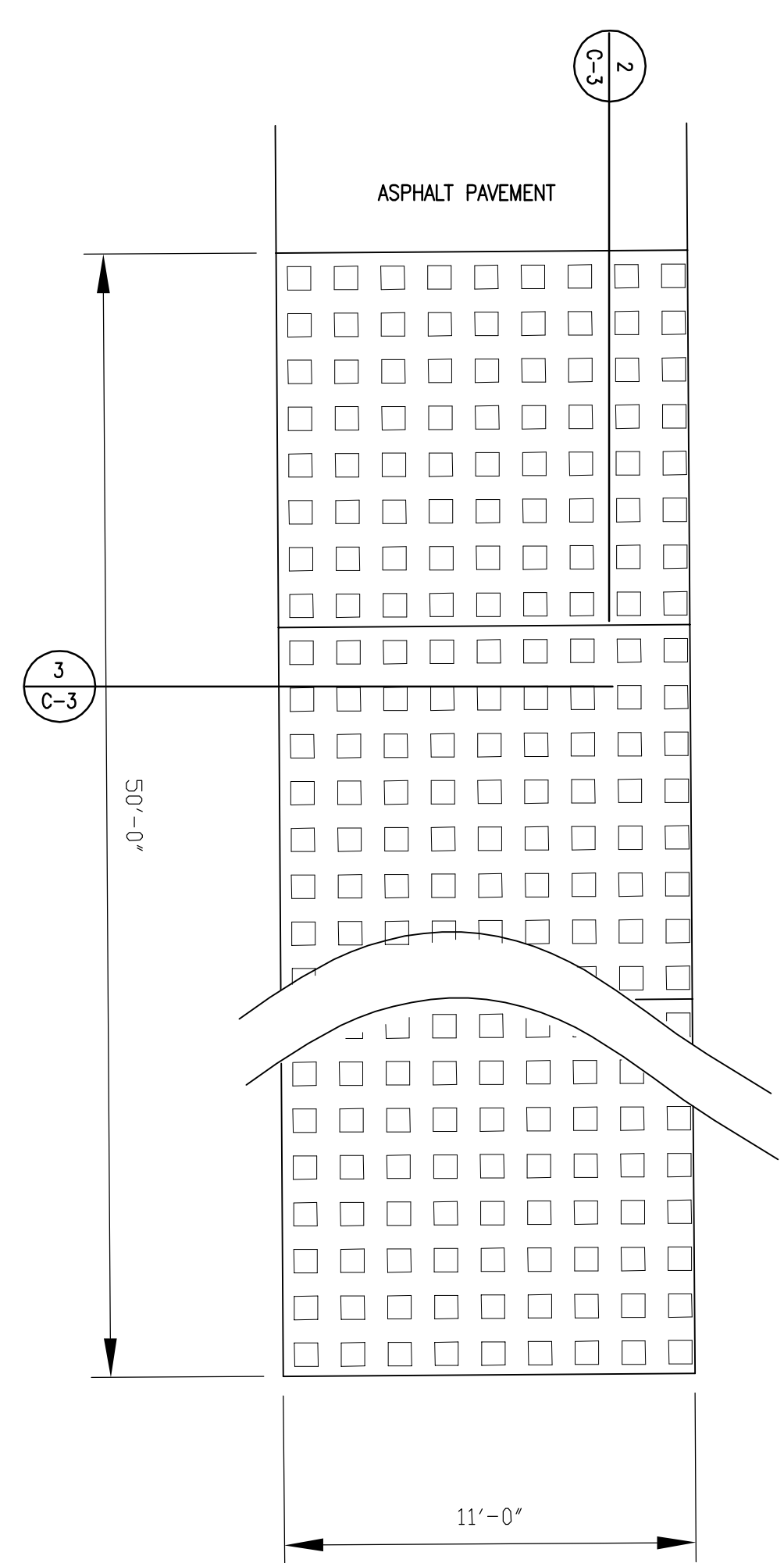
REV.	ISSUED DATE	DESCRIPTION
0	6-18-12	Work Plan

KEYPLAN	SEAL	SEAL
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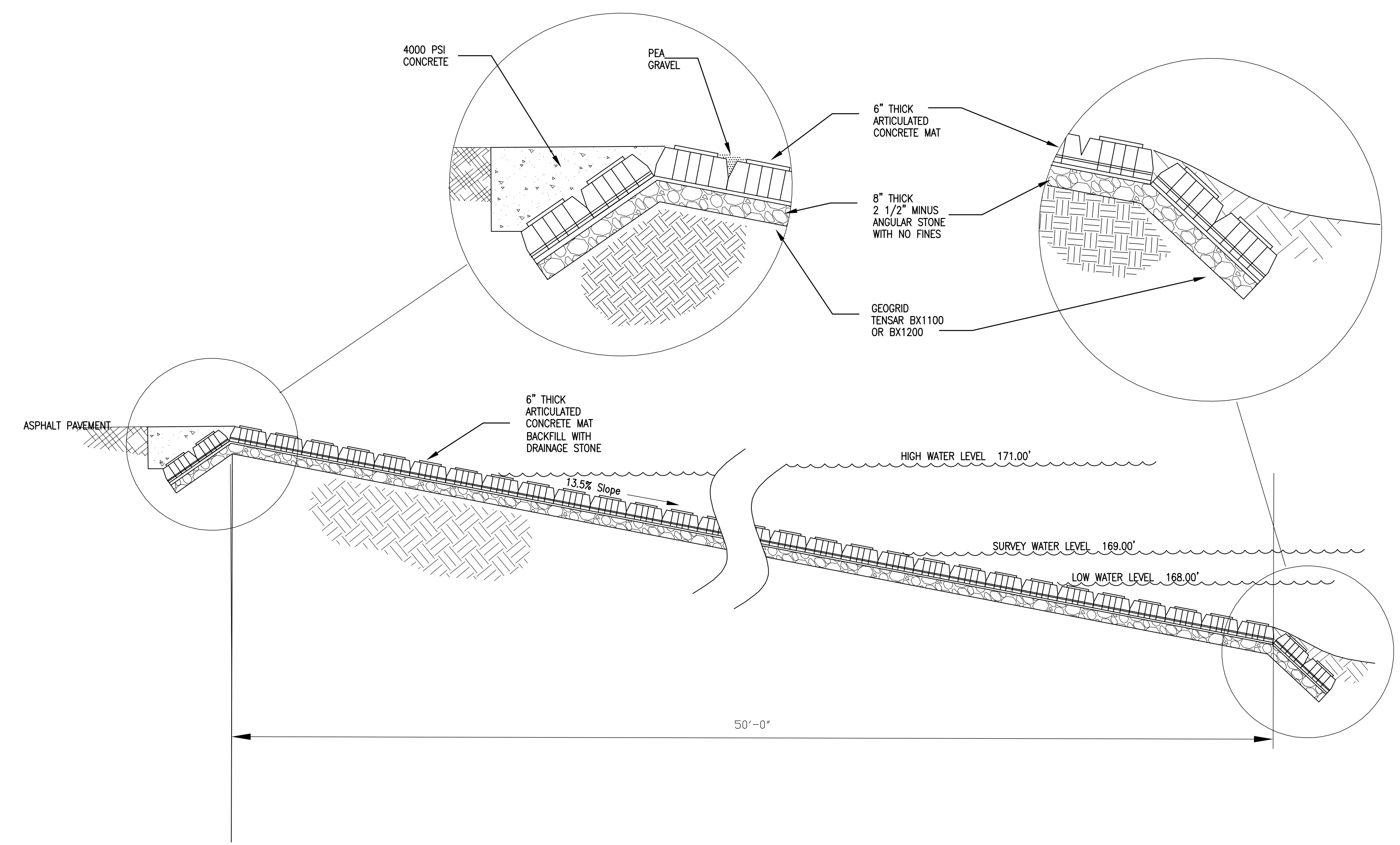
ARCADIS
 6723 Towpath Road
 Syracuse NY, 13214
 315-764-2239

ST. LAWRENCE COUNTY, NEW YORK
 NRD RECREATIONAL
 RIVER ACCESS IMPROVEMENTS
 SPRINGS PARK

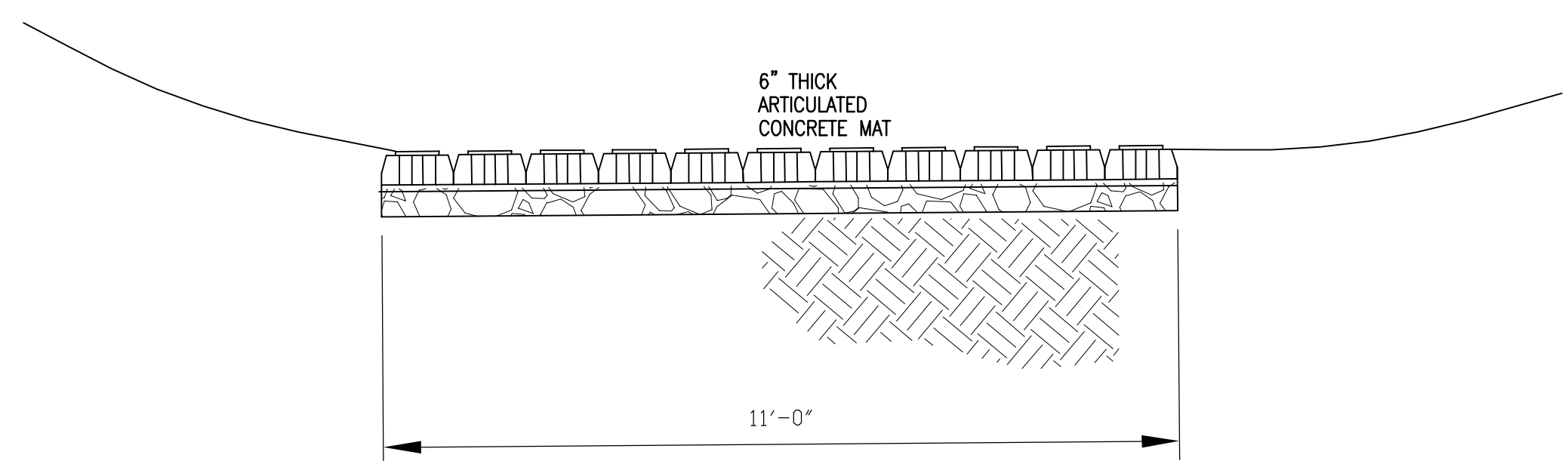
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SHEET TITLE ENLARGED SITE PLAN		TASK/PHASE NUMBER Project Task	DRAWN BY FRamps
		PROJECT NUMBER B0010877	DRAWING NUMBER C-2 OF



1 RIVER ACCESS RAMP PLAN
SCALE: 1" = 4'



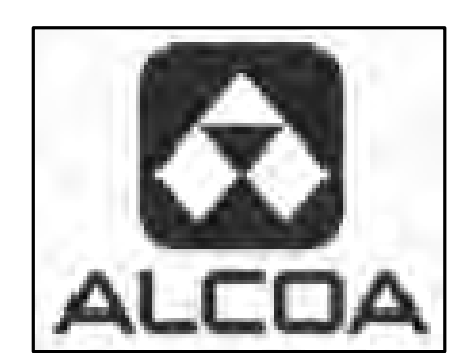
2 SECTION A
SCALE: 1" = 4'



3 SECTION B
SCALE: 1" = 2'

RIVER ACCESS RAMP

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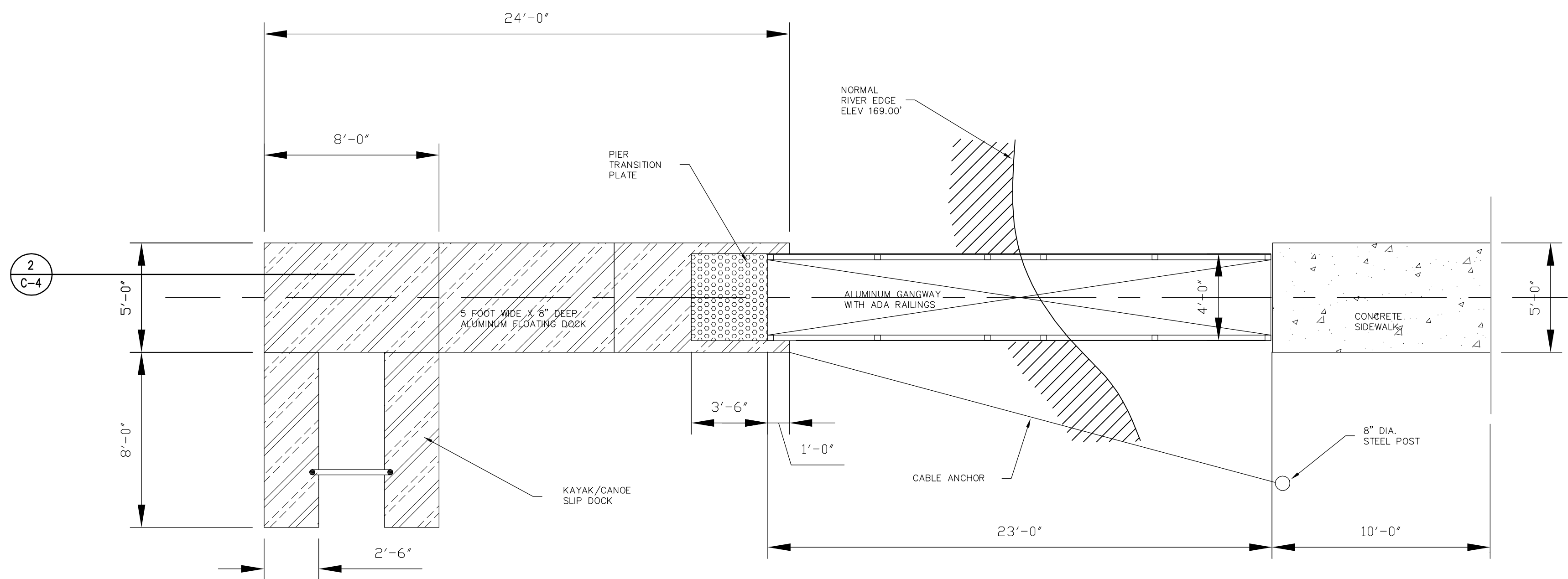
REV.	ISSUED DATE	DESCRIPTION
0	6-18-12	Work Plan

KEYPLAN	SEAL	SEAL
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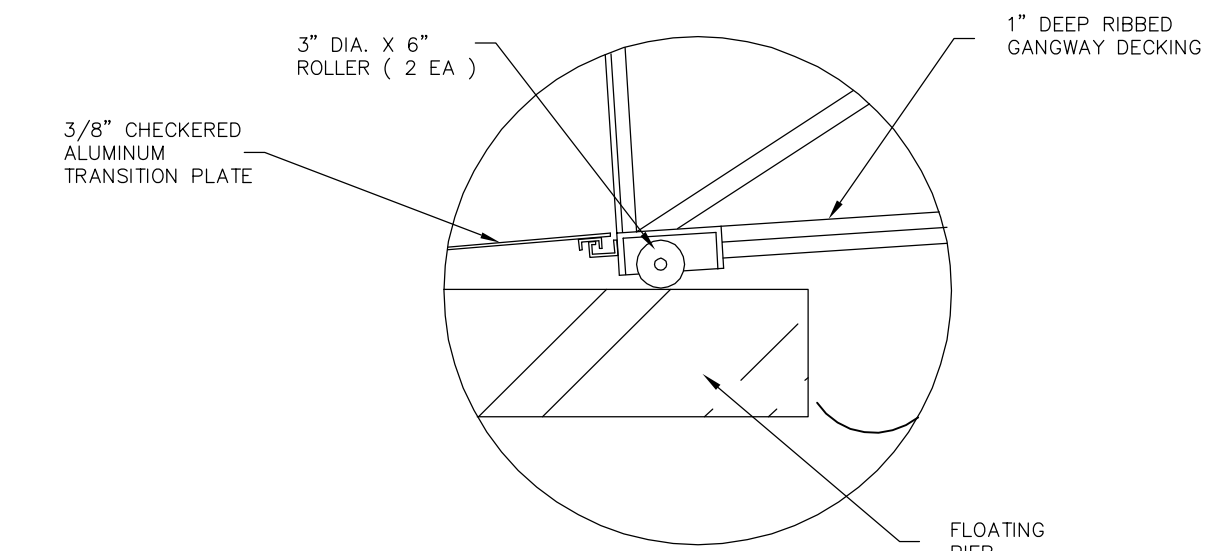
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 SPRINGS PARK

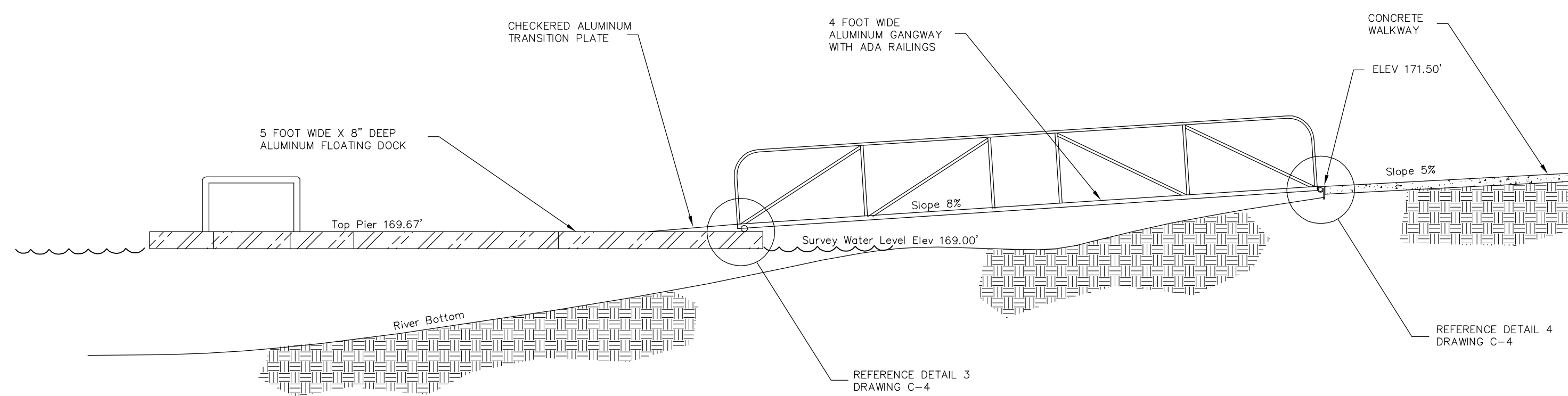
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		PROJECT NUMBER B0010877	DRAWING NUMBER C-3 OF



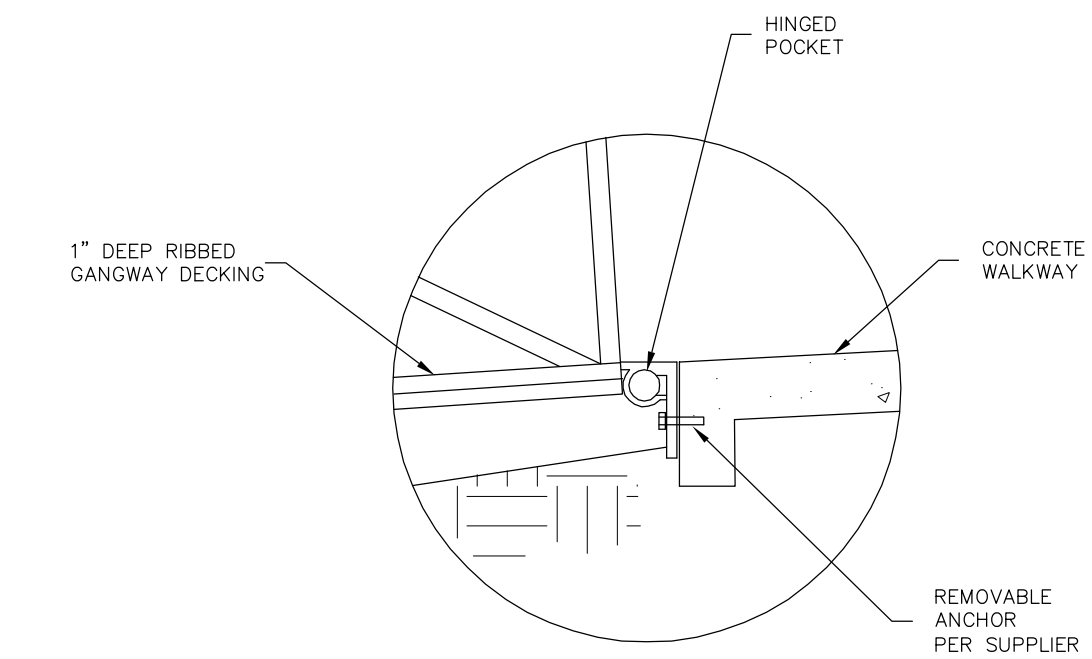
1 FLOATING DOCK & GANGWAY
SCALE: 1" = 4'



3 DETAIL 3 - DOCK SIDE TRANSITION
SCALE: NTS



2 FLOATING DOCK & GANGWAY SECTION
SCALE: 1" = 4'



4 DETAIL 4 - SHORE SIDE HINGE
SCALE: NTS

FLOATING PIER & GANGWAY

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 © 2006 ARCADIS G&M, Inc
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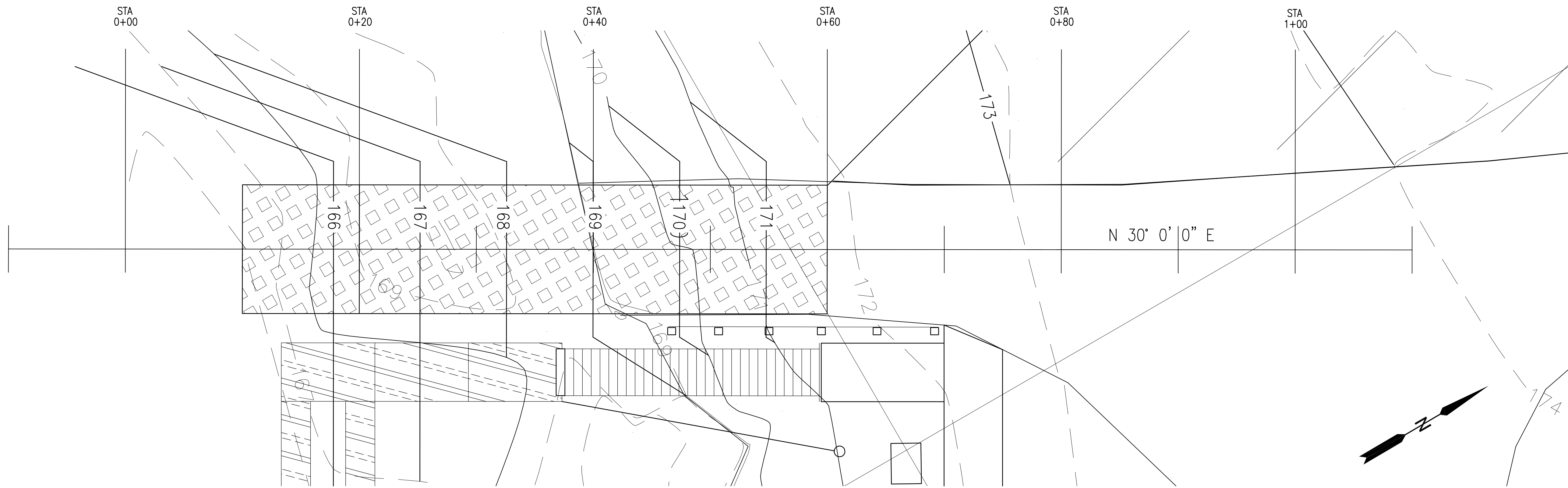


KEYPLAN	SEAL	SEAL
0 6-18-12 Work Plan		
REV. ISSUED DATE DESCRIPTION		

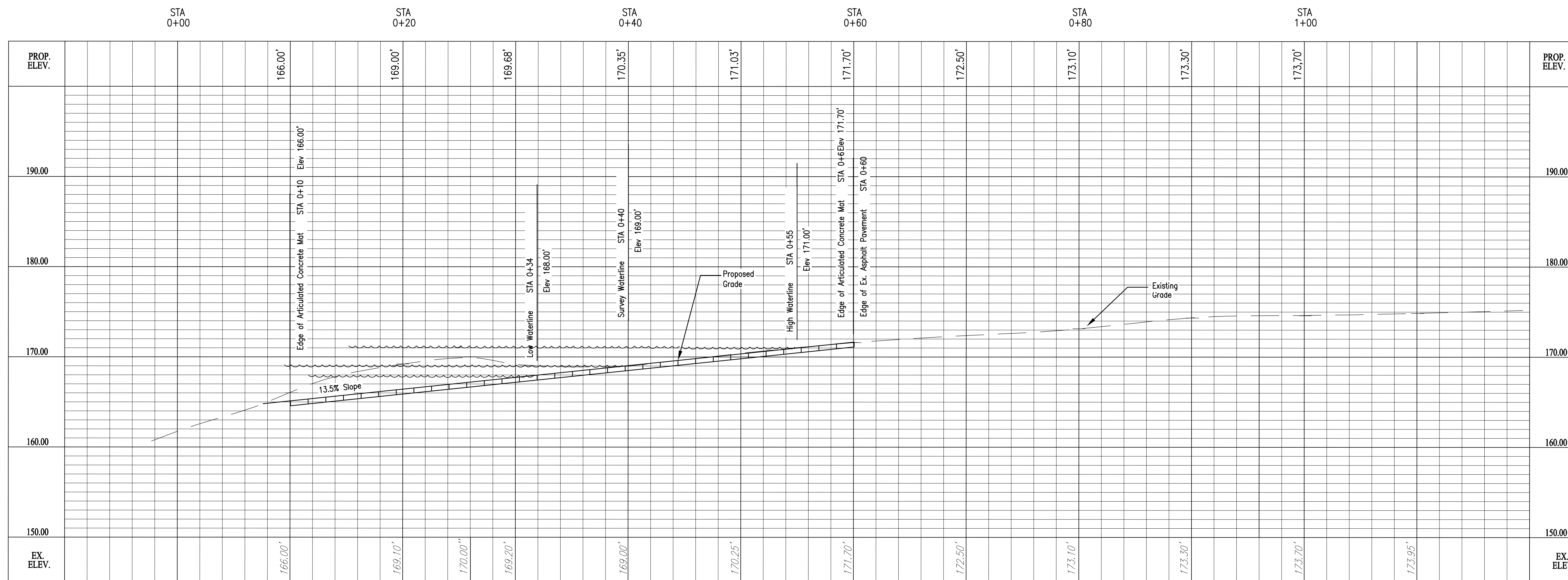
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 RIVER ACCESS IMPROVEMENTS
 SPRINGS PARK

PROJECT MANAGER DCasey	DEPARTMENT MANAGER DCastele	LEAD DESIGN PROF. FRamps	CHECKED BY Checked By
SHEET TITLE RIVER EDGE IMPROVEMENTS FLOATING PIER & GANGWAY		TASK/PHASE NUMBER Project Task	DRAWN BY FRamps
		PROJECT NUMBER B0010877	DRAWING NUMBER C-4 OF



PLAN



PROFILE

SCALE:
 HORZ: 1" = 5'
 VERT: 1" = 6'

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 User Name : ftramps

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REV.	ISSUED DATE	DESCRIPTION
0	6-18-12	Work Plan

KEY PLAN	SEAL	SEAL
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 SPRINGS PARK

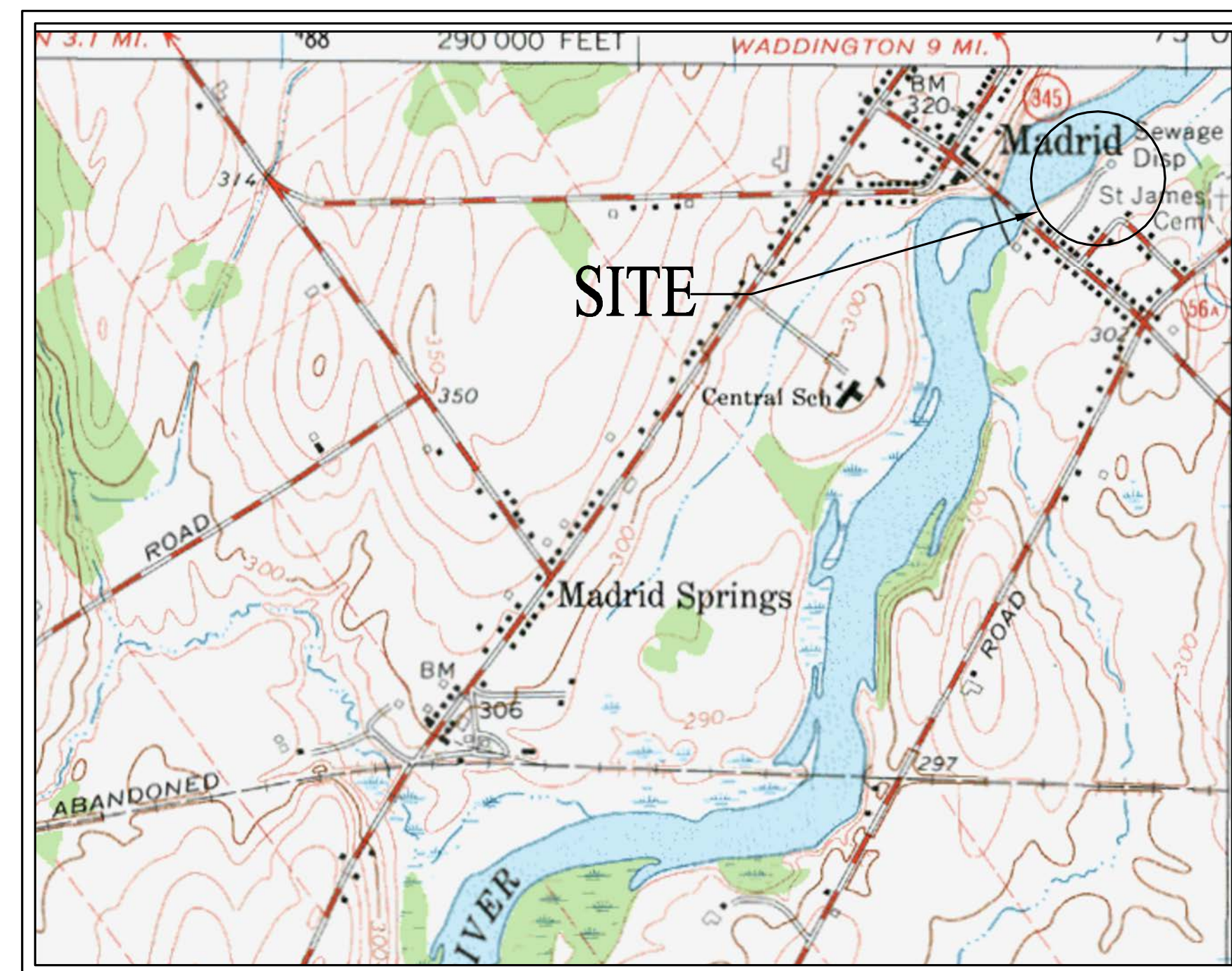
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SHEET TITLE RIVER ACCESS RAMP PLAN/PROFILE		TASK/PHASE NUMBER Project Task	DRAWN BY FRamps
		PROJECT NUMBER B0010877	DRAWING NUMBER C-5 OF

DRAWING INDEX

SHEET NO.	TITLE
T-1	COVER SHEET & INDEX
C-0	EXISTING CONDITIONS PLAN
C-1	OVERALL SITE PLAN
C-2	ENLARGED SITE PLAN
C-3	RIVER ACCESS RAMP
C-4	FISHING PLATFORM
C-5	FLOATING DOCK AND GANGWAY
C-6	ACCESS RAMP PLAN/PROFILE

WORK PLAN

NRD RECREATIONAL RIVER ACCESS IMPROVEMENTS VILLAGE OF MADRID



VICINITY MAP



LOCATION MAP

Date\Time : Tue, 24 Jul 2012 10:20:05 AM
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 Path Name : G:\Project\0010877\002\Water\Access\Drawings\Madrid\Title Page.dwg
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 Drawings\Madrid\Title Page.dwg

Acad Version : R18.1s (LMS Tech)
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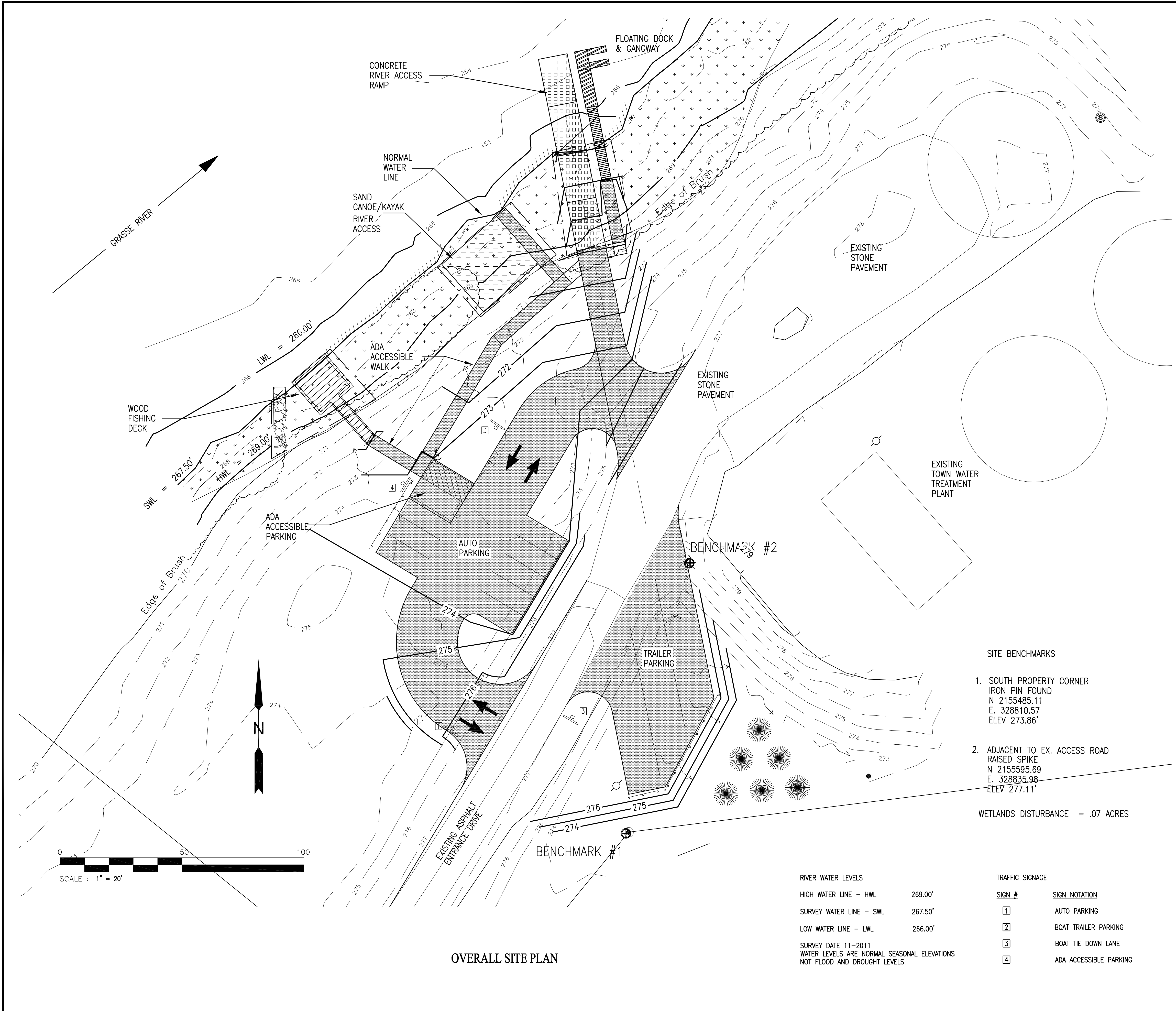
REV.	ISSUED DATE	DESCRIPTION
0	6-18-12	Work Plan

KEYPLAN	SEAL	SEAL
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ST. LAWRENCE COUNTY, NEW YORK
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 RIVER ACCESS IMPROVEMENTS
 VILLAGE OF MADRID

PROJECT MANAGER DCasey	DEPARTMENT MANAGER DCastele	LEAD DESIGN PROF. FRamps	CHECKED BY Checked By
SHEET TITLE COVER SHEET & INDEX		TASK/PHASE NUMBER Project Task	DRAWN BY FRamps
PROJECT NUMBER B0010877		DRAWING NUMBER T-1 OF	



SITE DEVELOPMENT ELEMENTS

MUNICIPALITY: TOWN OF MADRID, NEW YORK
 PROJECT NAME: MADRID RECREATIONAL RIVER ACCESS IMPROVEMENTS
 OWNER OF RECORD: TOWN OF MADRID
 3529 CR 14
 MADRID, NEW YORK 13660
 DESIGNER/ENGINEER: ARCADIS-US, INC
 1100 SUPERIOR AVENUE, SUITE 1250
 CLEVELAND, OHIO 44114

PROPERTY LOCATION: SITE IS LOCATED WITHIN THE TOWN OF MADRID AND ADJACENT TO THE GRASSE RIVER. THE PARK IS LOCATED NEAR THE ROUTE 345 BRIDGE OVER THE GRASSE RIVER AND ADJACENT TO THE TOWNS WATER TREATMENT PLANT.

DEED RESTRICTIONS: NONE

PROPERTY USE: THE PROPERTY IS CURRENTLY BEING UTILIZED AS A RIVER ACCESS LOCATION TO THE GRASSE RIVER FOR CANOES, KAYAKS AND SMALL BOATS. THE PROPOSED PROPERTY USAGE WILL REMAIN THE SAME. SITE IMPROVEMENTS WILL INCLUDE: PAVED TRAILER AND AUTO PARKING, NEW RIVER ACCESS RAMP AND A NEW WOODEN FISHING DECK. LOCATION USAGE WILL REMAIN SEASONAL WITH ONLY SUMMER USAGE ANTICIPATED.

ZONING

ZONING DISTRICT	RESIDENTIAL HAMLET/LAND OVERLAY CONSERVATION
PERMITTED USE	PUBLIC PARK
MINIMUM LOT AREA	1 ACRE
YARD SETBACKS	FRONT/REAR 50 FEET SIDE 25 FEET
OFF STREET PARKING	NONE NOTED PROVIDED - 9 TOTAL AUTO 1 ADA ACCESSIBLE 5 TRAILER

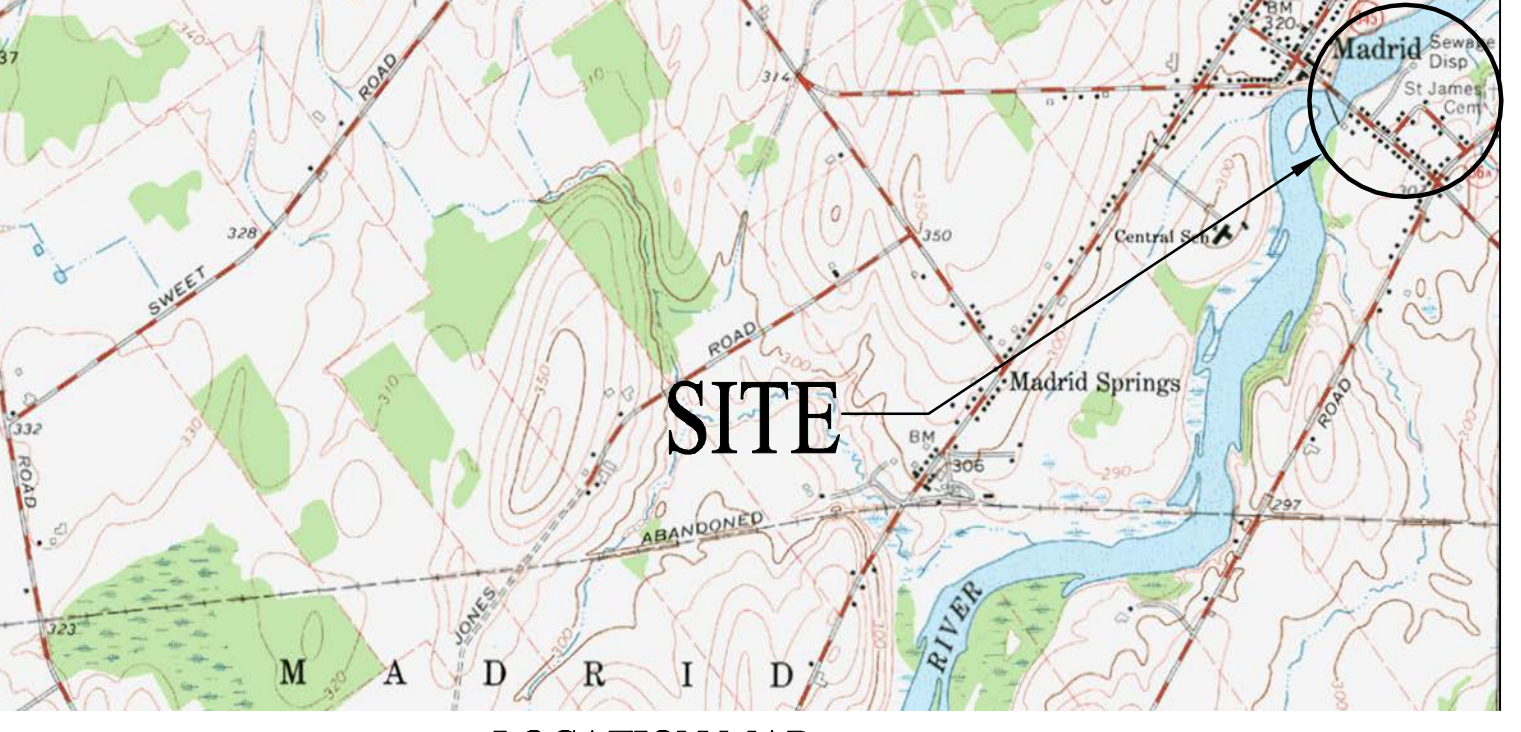
ADJACENT PROPERTY OWNERS

THERE IS FOUR ADJOINING PROPERTY OWNERS IMMEDIATELY ADJACENT TO THE SITE DEVELOPMENT AREA. PARCELS AND OWNERS THAT MAY BE IMPACTED BY THE PROJECT IMPROVEMENTS ARE LOCATED ACROSS THE GRASSE RIVER. THESE PARCELS ARE NOTED BELOW:

CAROLINE STREET BLOCK 4, PARCEL NO. 11.11 BRUCE P. LANGEVIN PO BOX 14 STAR LAKE, NY 13690	1930 SH 345 BLOCK 2, PARCEL NO. 33 LAWRENCE & JUDITH BOYETTE PO BOX 266 MADRID, NY 13660	1910 SH 345 BLOCK 2, PARCEL NO. 4 TIMOTHY B. & LAURIE LUCAS PO BOX 121 MADRID, NY 13660
19 CAROLINE STREET BLOCK 4, PARCEL NO. 11.2 GERALD & TINA HOLLINGER PO BOX 154 MADRID, NY 13660	1922 SH 345 BLOCK 2, PARCEL NO. 1 MARK D. WATSON PO BOX 53 MADRID, NY 13660	1906 SH 345 BLOCK 2, PARCEL NO. 5 TIMOTHY J. & ROBIN T. MCNAMARA 1904 SH 345 MADRID, NY 13660
15 CAROLINE STREET BLOCK 4, PARCEL NO. 11.12 JEAN BARGLAY PO BOX 366 MADRID, NY 13660	1918 SH 345 BLOCK 2, PARCEL NO. 2 JEFFERY STEN PO BOX 335 MADRID, NY 13660	1900 SH 345 BLOCK 2, PARCEL NO. 6 VERNON A. LOWERY 185 WALRATH ROAD HAMMOND, NY 13646
1854 SH 345 BLOCK 4, PARCEL NO. 3.1 ROBERT D. RAMSEY 33 1/2 MAIN STREET POTSDAM, NY 13767	1914 SH 345 BLOCK 2, PARCEL NO. 3 THOMAS & SHARON CORNEAU PO BOX 184 MADRID, NY 13660	1880 SH 345 BLOCK 2, PARCEL NO. 13 WILLIAM & NANCY HULL PO BOX 44 MADRID, NY 13660

LEGEND

	ASPHALT PAVEMENT		EX. CONTOURS		FLOW DIRECTION
	STONE PAVEMENT		NEW CONTOURS		TRAFFIC SIGNS
	CONCRETE PAVEMENT		ROPE BARRIER		WETLANDS DISTURBANCE
	ARTICULATED CONCRETE MAT		SAND		CONCRETE WHEELSTOP
	WETLAND AREA		LARGE RIP RAP		NEW 6' PINE



RIVER WATER LEVELS

HIGH WATER LINE - HWL	269.00'
SURVEY WATER LINE - SWL	267.50'
LOW WATER LINE - LWL	266.00'

SURVEY DATE 11-2011
 WATER LEVELS ARE NORMAL SEASONAL ELEVATIONS NOT FLOOD AND DROUGHT LEVELS.

TRAFFIC SIGNAGE

SIGN #	SIGN NOTATION
1	AUTO PARKING
2	BOAT TRAILER PARKING
3	BOAT TIE DOWN LANE
4	ADA ACCESSIBLE PARKING

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0	6-18-12	Work Plan
REV.	ISSUED DATE	DESCRIPTION

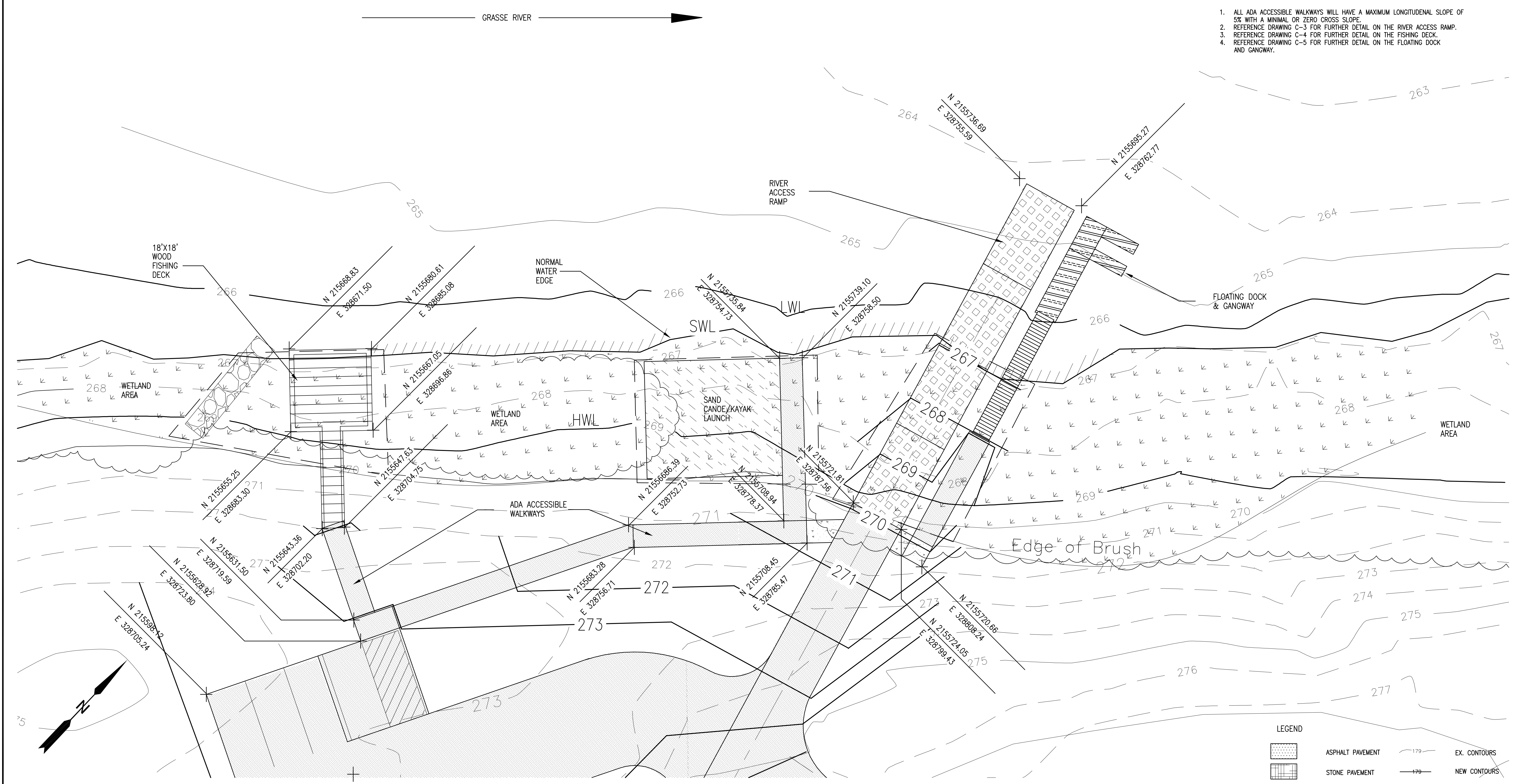
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ST. LAWRENCE COUNTY, NEW YORK
 NRD RECREATIONAL
 RIVER ACCESS IMPROVEMENTS
 VILLAGE OF MADRID

PROJECT MANAGER DCasey	DEPARTMENT MANAGER DCastele	LEAD DESIGN PROF. FRamps	CHECKED BY Checked By
SHEET TITLE OVERALL SITE PLAN		TASK/PHASE NUMBER Project Task	DRAWN BY FRamps
		PROJECT NUMBER B0010877	DRAWING NUMBER C-1 OF

- GENERAL NOTES
1. ALL ADA ACCESSIBLE WALKWAYS WILL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 5% WITH A MINIMAL OR ZERO CROSS SLOPE.
 2. REFERENCE DRAWING C-3 FOR FURTHER DETAIL ON THE RIVER ACCESS RAMP.
 3. REFERENCE DRAWING C-4 FOR FURTHER DETAIL ON THE FISHING DECK.
 4. REFERENCE DRAWING C-5 FOR FURTHER DETAIL ON THE FLOATING DOCK AND GANGWAY.

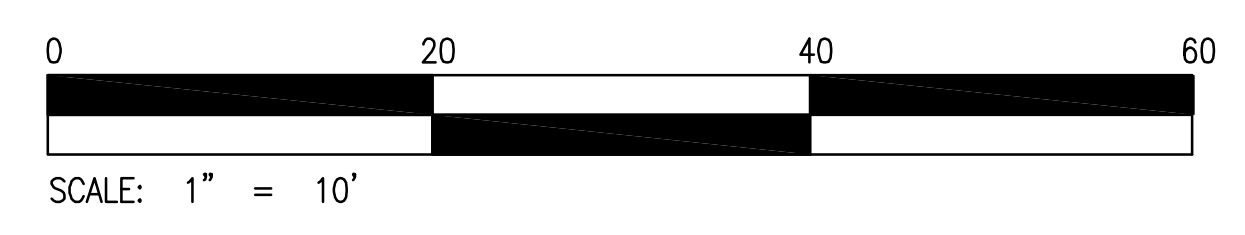


ENLARGED SITE PLAN

LEGEND

	ASPHALT PAVEMENT		EX. CONTOURS
	STONE PAVEMENT		NEW CONTOURS
	CONCRETE PAVEMENT		ROPE BARRIER
	ARTICULATED CONCRETE MAT		WETLANDS DISTURBANCE
	WETLAND AREA		EX. TREE LINE
	LARGE RIP RAP		

- SITE BENCHMARKS
1. SOUTH PROPERTY CORNER
IRON PIN FOUND
N 2155485.11
E. 328810.57
ELEV 273.86'
 2. ADJACENT TO EX. ACCESS ROAD
RAISED SPIKE
N 2155595.69
E. 328835.98
ELEV 277.11'
- REFERENCE DRAWING C-1 FOR BENCH MARK LOCATIONS.



Acad Version: R18.1s (LMS Tech) User Name: rromps © 2006 ARCADIS G&M, Inc. Date/Time: Tue Jul 24 09:19:45 2012 Path Name: G:\Project\B0010877\2012\Water\Alcoa\NYS\Consent\Decree\Phase\Project\Work\Plan-Ph-3\Working Drawings\Madrid\C-2-1.dwg Current Plot Style: By Color Layout Tab: Layout1 Plot Device: PkPlot (AutoCAD) Plot Name: Ph-3.dwg



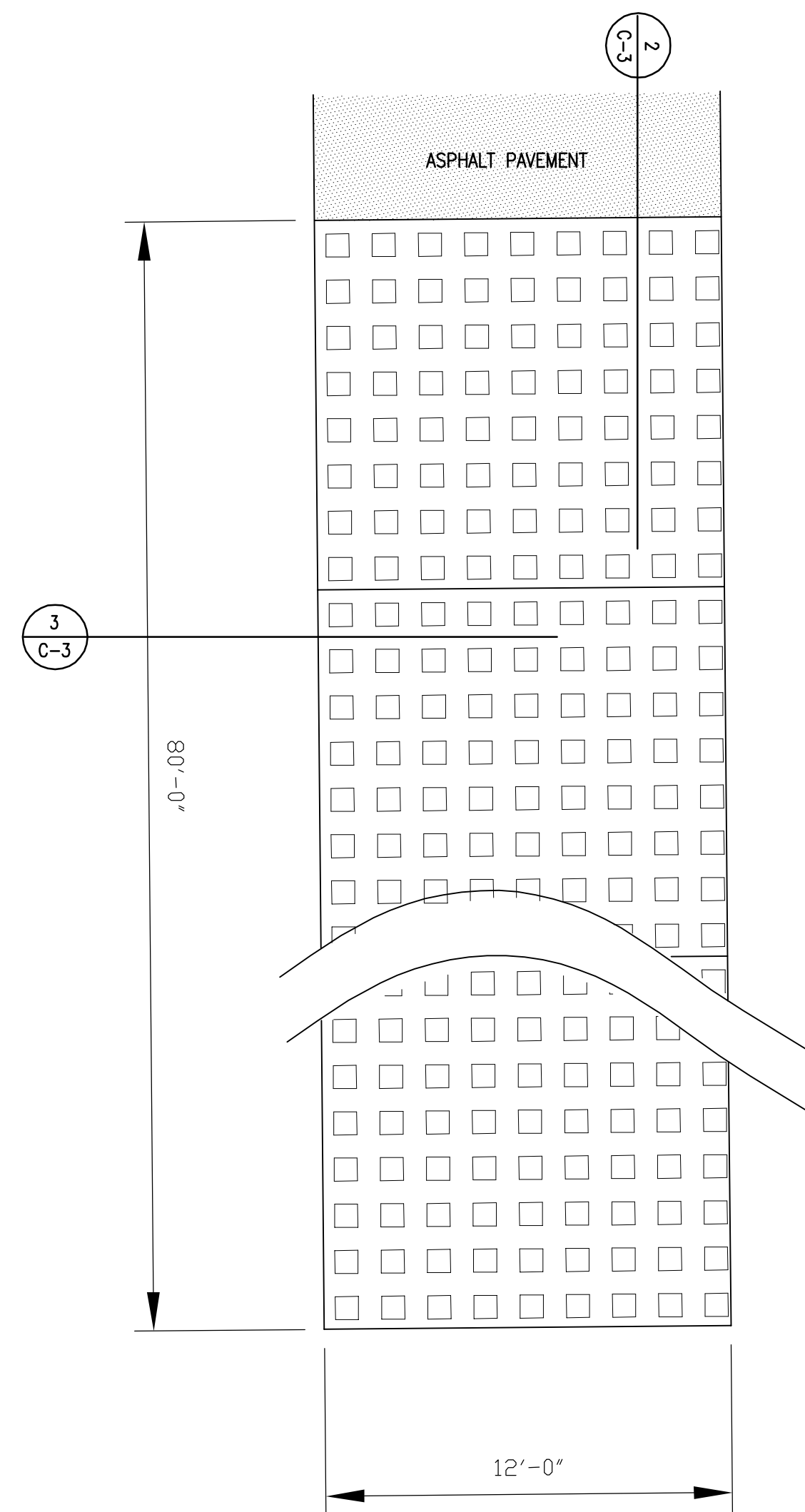
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KEY PLAN	SEAL	SEAL
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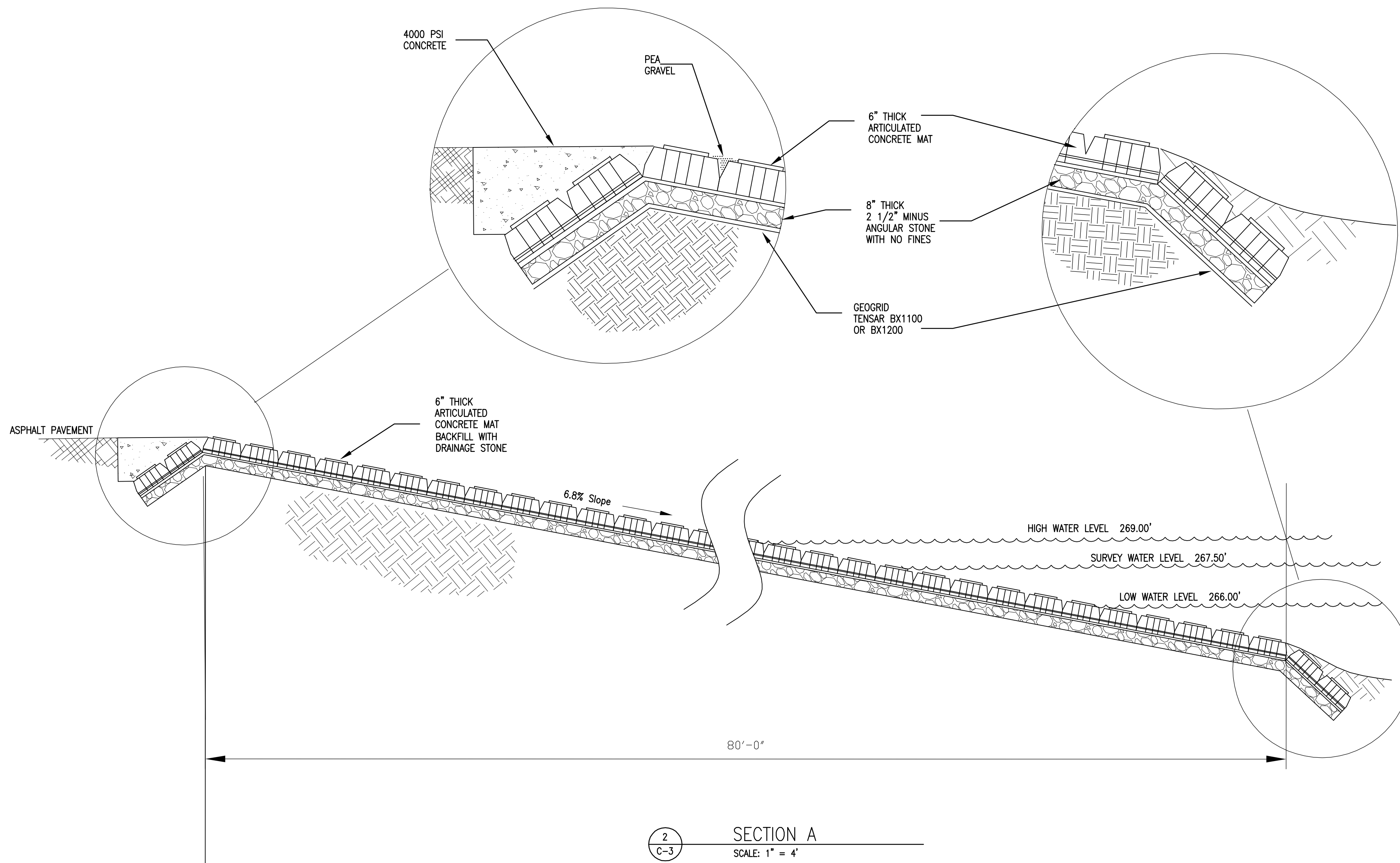
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VILLAGE OF MADRID

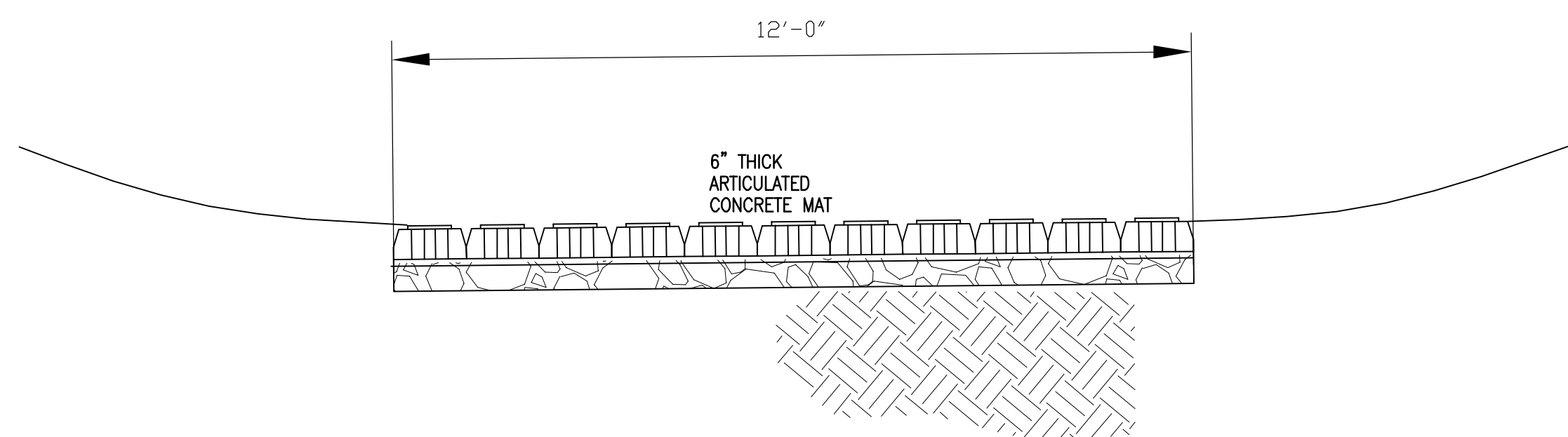
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SHEET TITLE ENLARGED SITE PLAN		TASK/PHASE NUMBER Project Task	DRAWN BY FRamps
		PROJECT NUMBER B0010877	DRAWING NUMBER C-2 OF



1 RIVER ACCESS RAMP PLAN
SCALE: 1" = 4'



2 SECTION A
SCALE: 1" = 4'



3 SECTION B
SCALE: 1" = 2'

RIVER ACCESS RAMP

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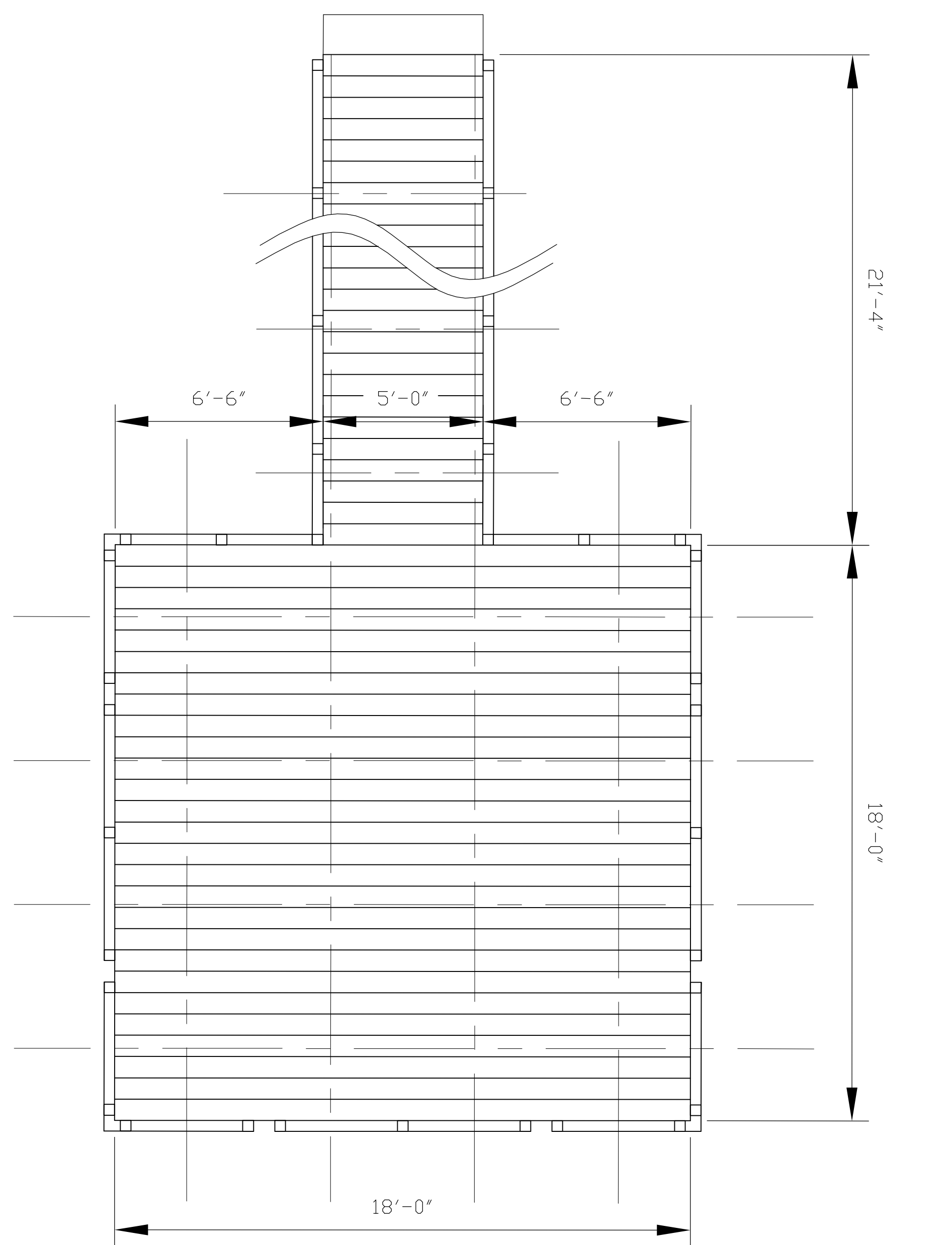
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0	6-18-12	Work Plan

KEYPLAN	SEAL	SEAL
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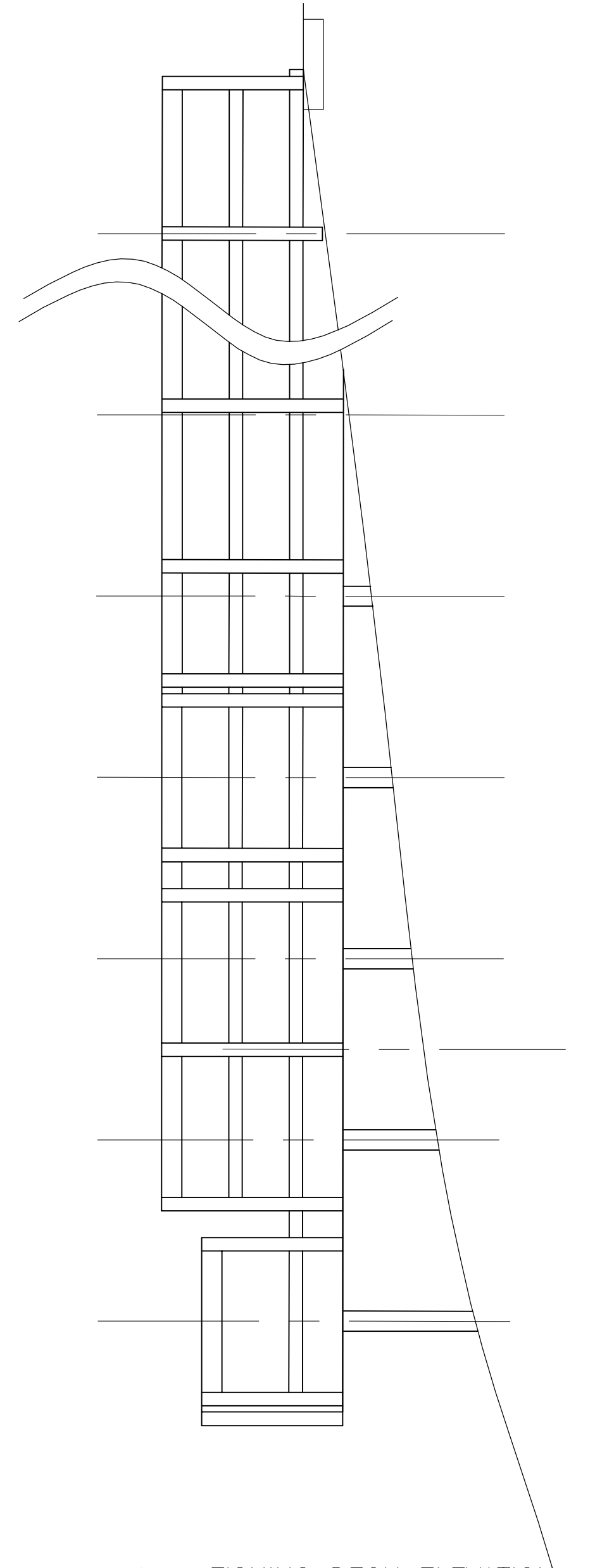
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 VILLAGE OF MADRID

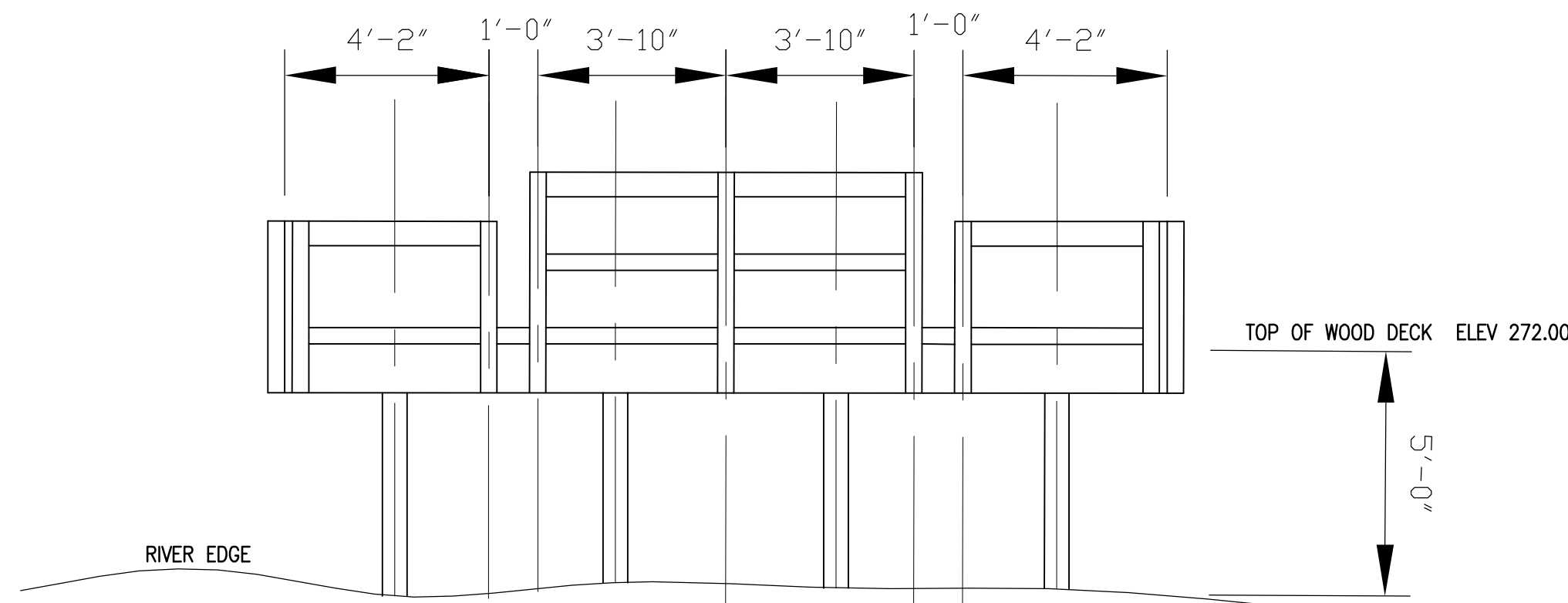
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		PROJECT NUMBER B0010877	DRAWING NUMBER C-3 OF



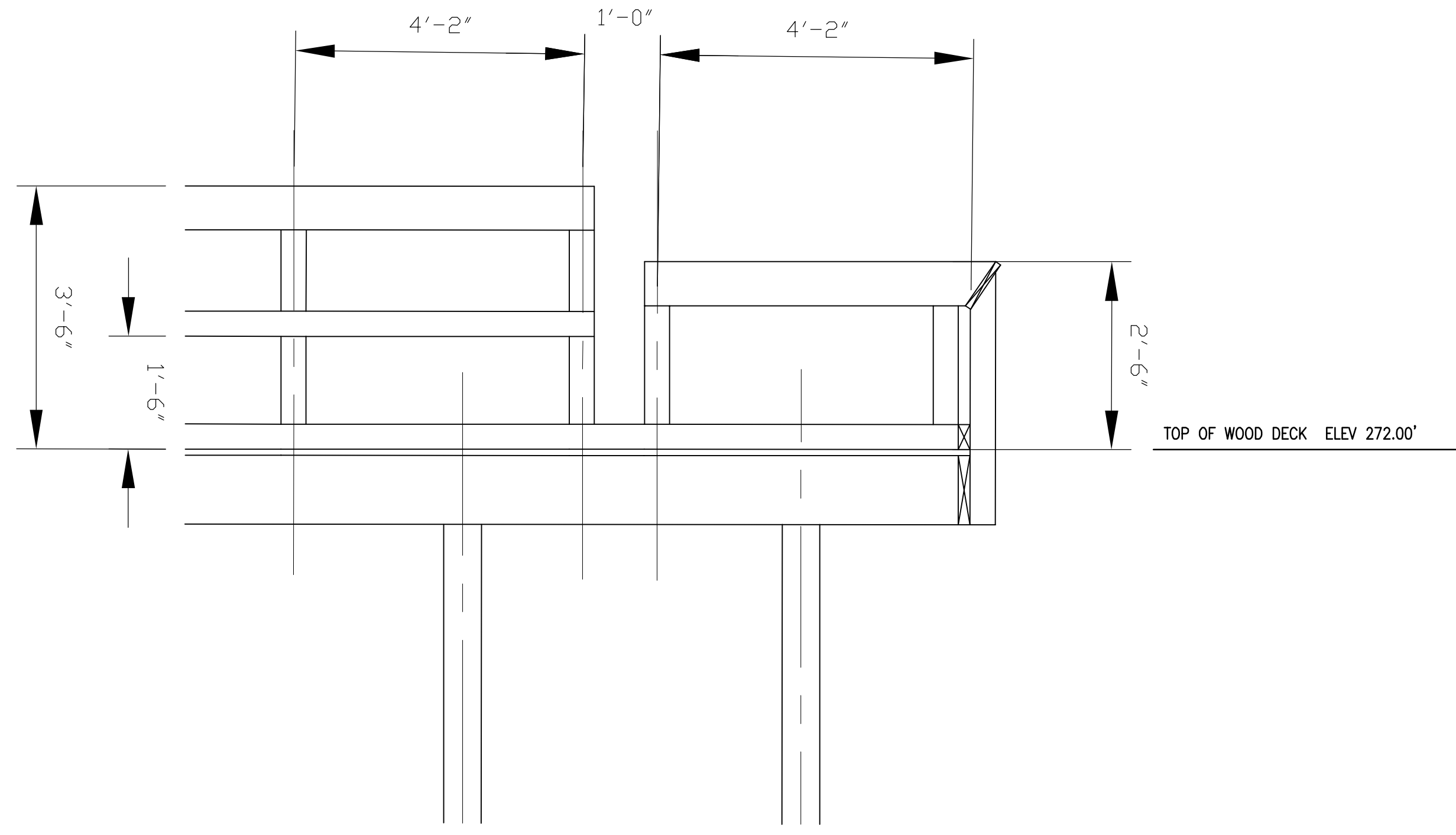
1 FISHING DECK PLAN
SCALE: 1" = 3'



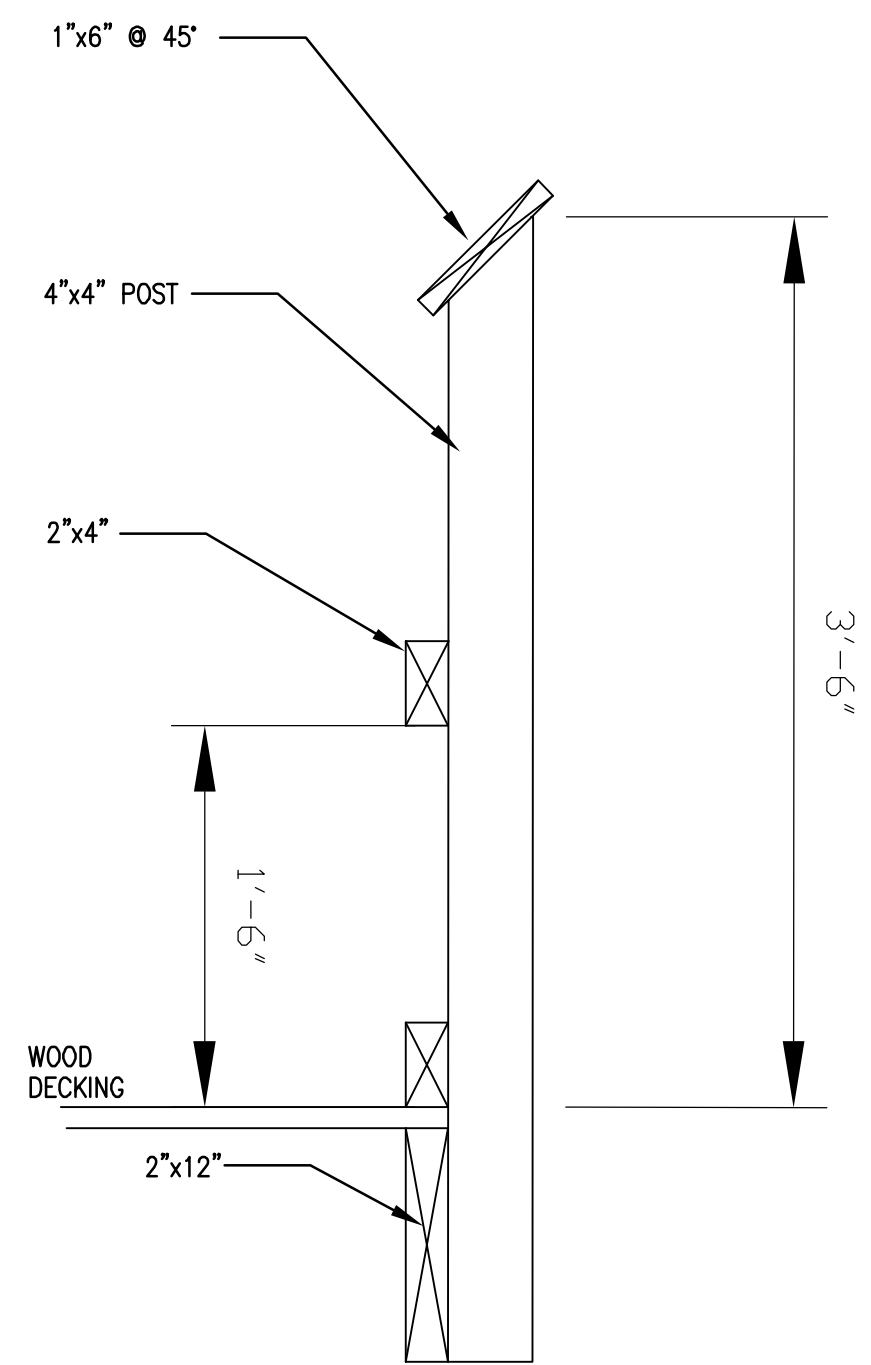
3 FISHING DECK ELEVATION
SCALE: 1" = 3'



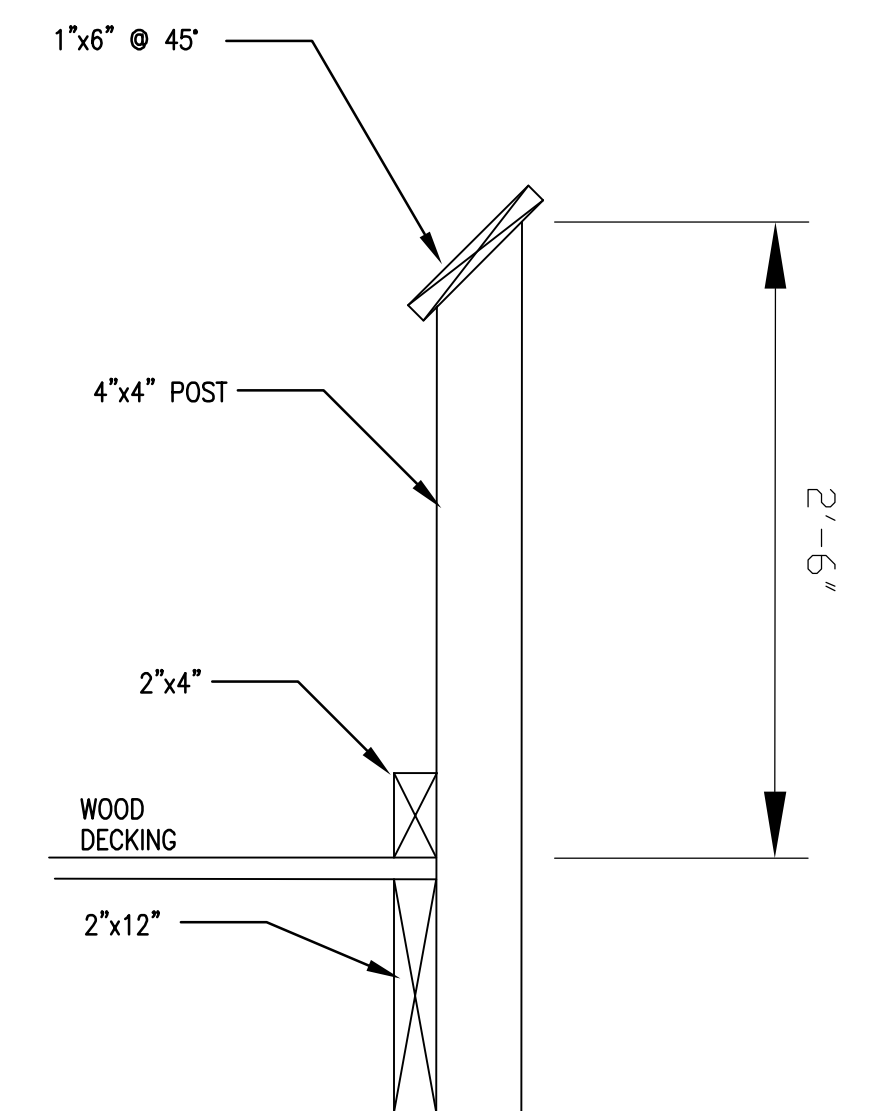
2 FISHING DECK ELEVATION
SCALE: 1" = 3'



4 ENLARGED DECK RAILING ELEVATION - INSIDE VIEW
SCALE: 1" = 1.5'



STANDARD RAILING



ADA RAILING

5 FISHING DECK RAILING SECTIONS
SCALE: NTS

FISHING PLATFORM

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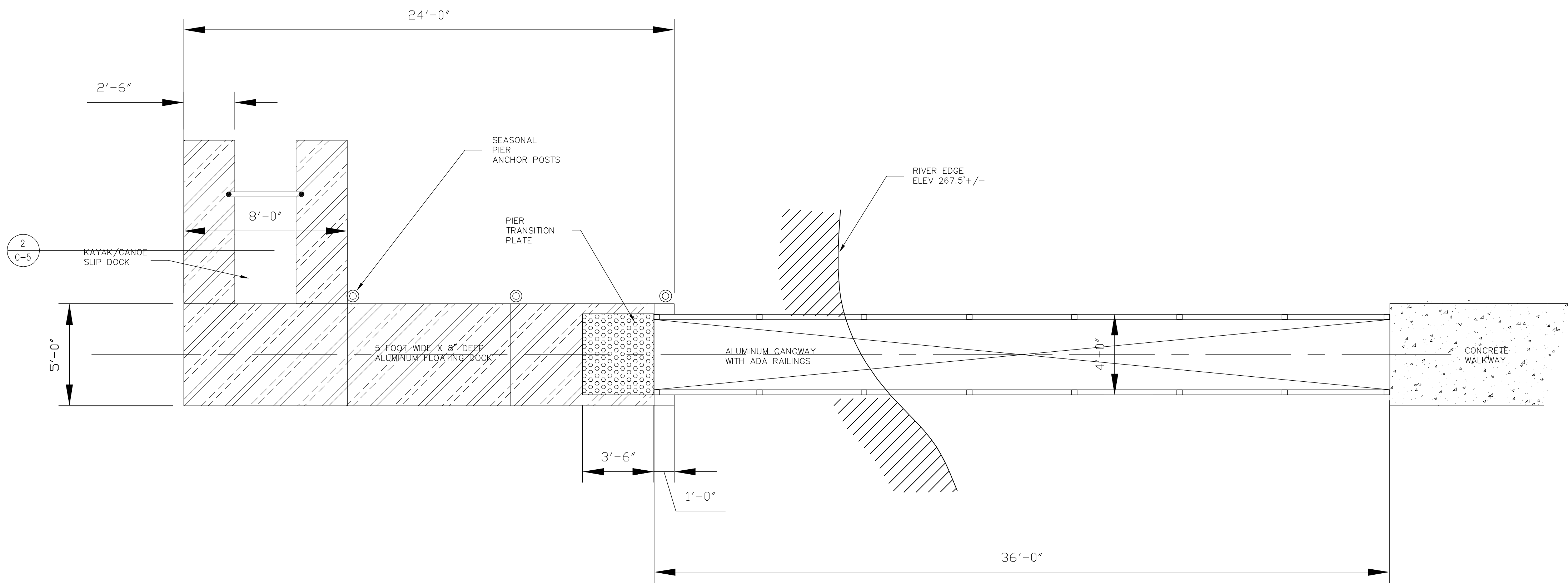
REV.	ISSUED DATE	DESCRIPTION
0	6-18-12	Work Plan

KEY PLAN	SEAL	SEAL
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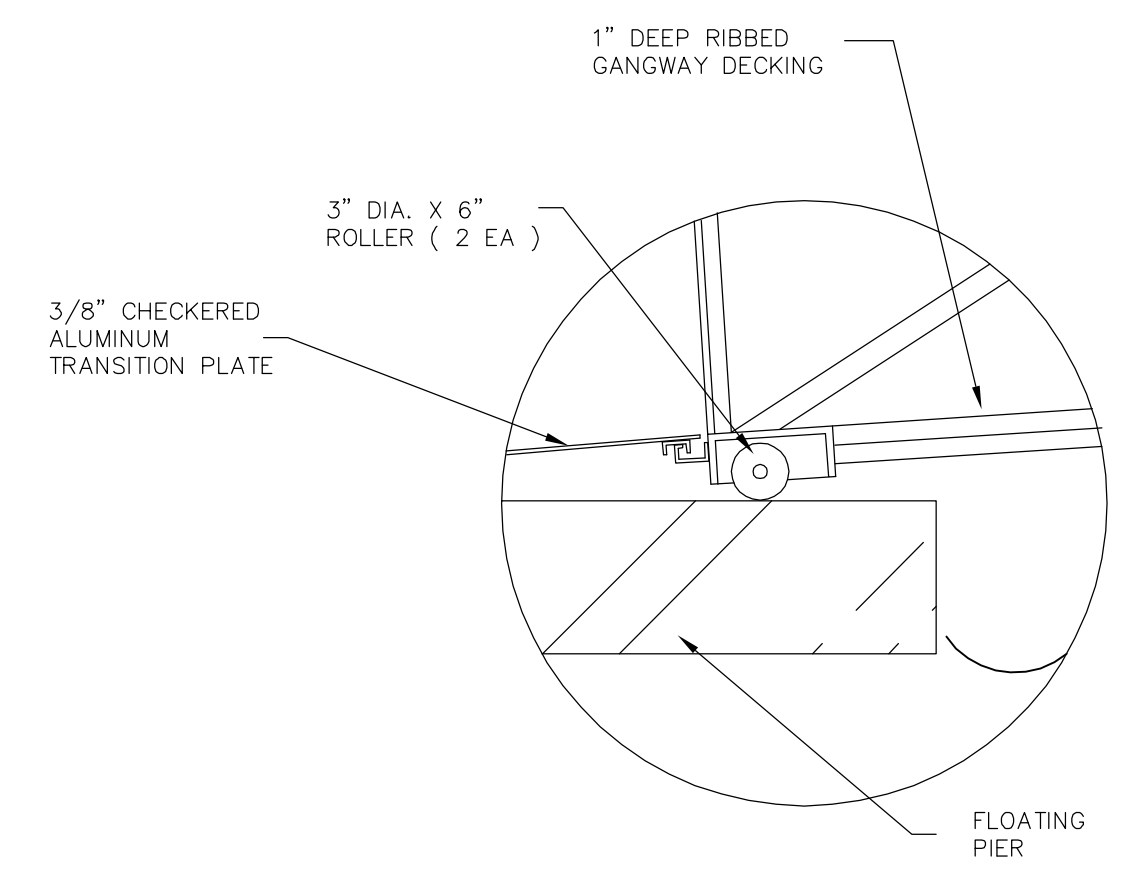
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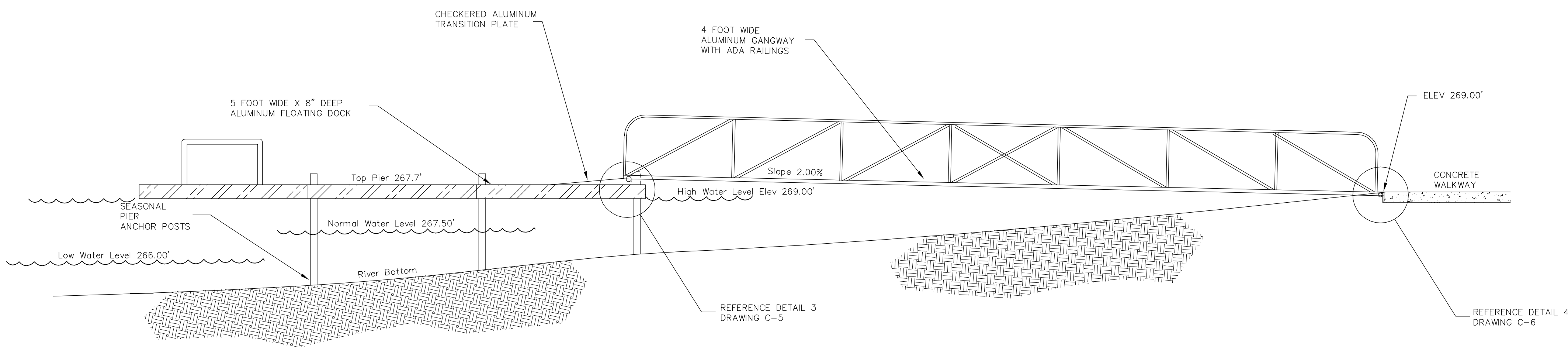
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		PROJECT NUMBER B0010877	DRAWING NUMBER C-4 OF



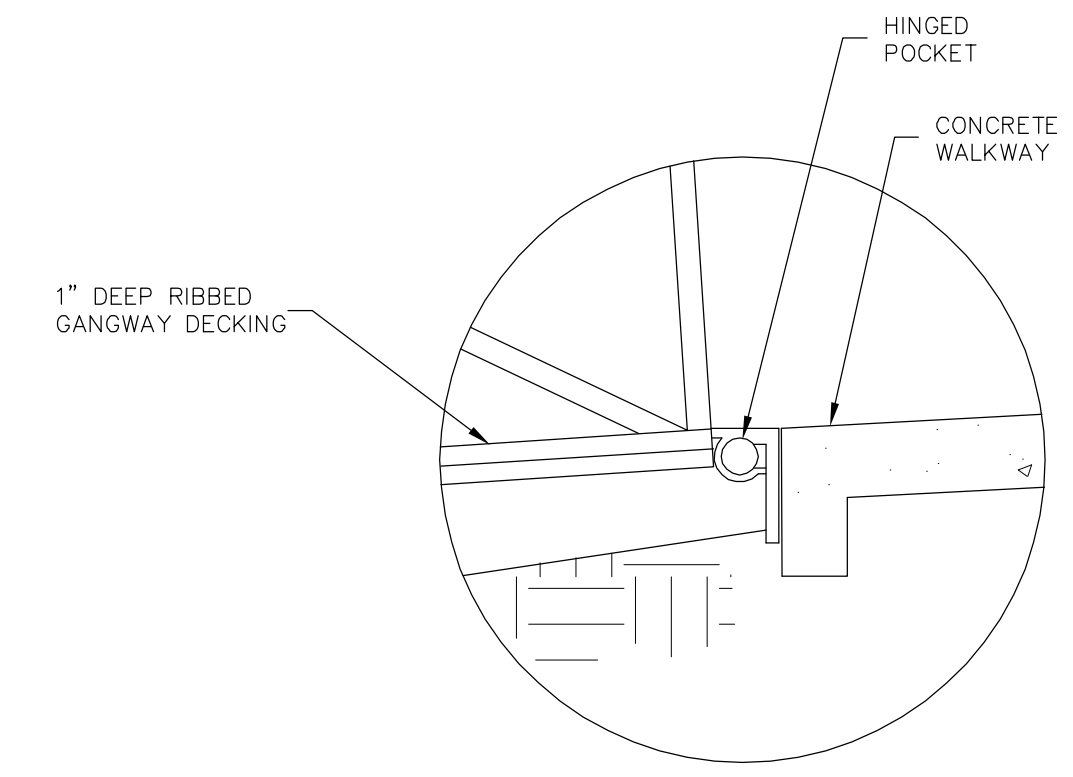
1 FLOATING DOCK & GANGWAY
SCALE: 1" = 30'



3 DETAIL 3 - DOCK SIDE TRANSITION
SCALE: 1" = 10'



2 FLOATING DOCK & GANGWAY SECTION
SCALE: 1" = 30'



4 DETAIL 4 - SHORE SIDE HINGE
SCALE: 1" = 10'

FLOATING PIER & GANGWAY

Acad Version: 1 R18 Is (LMS Tech)
 User Name: f_ramps
 © 2006 ARCADIS C&M, Inc
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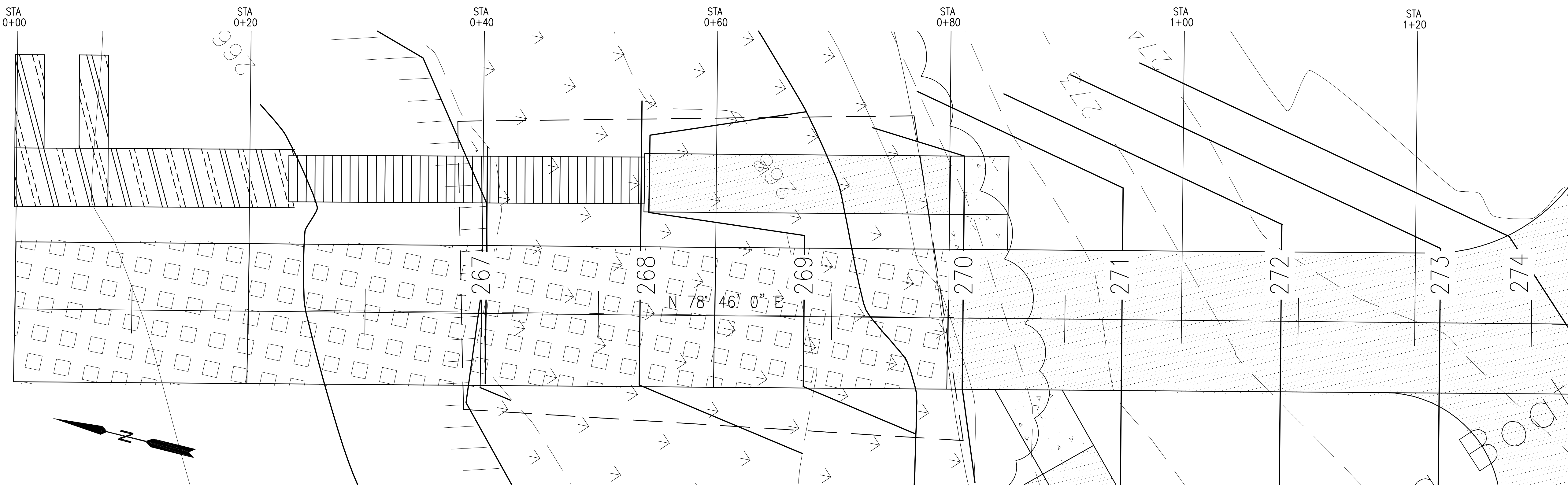
REV.	ISSUED DATE	DESCRIPTION
0	6-18-12	Work Plan

KEYPLAN	SEAL	SEAL
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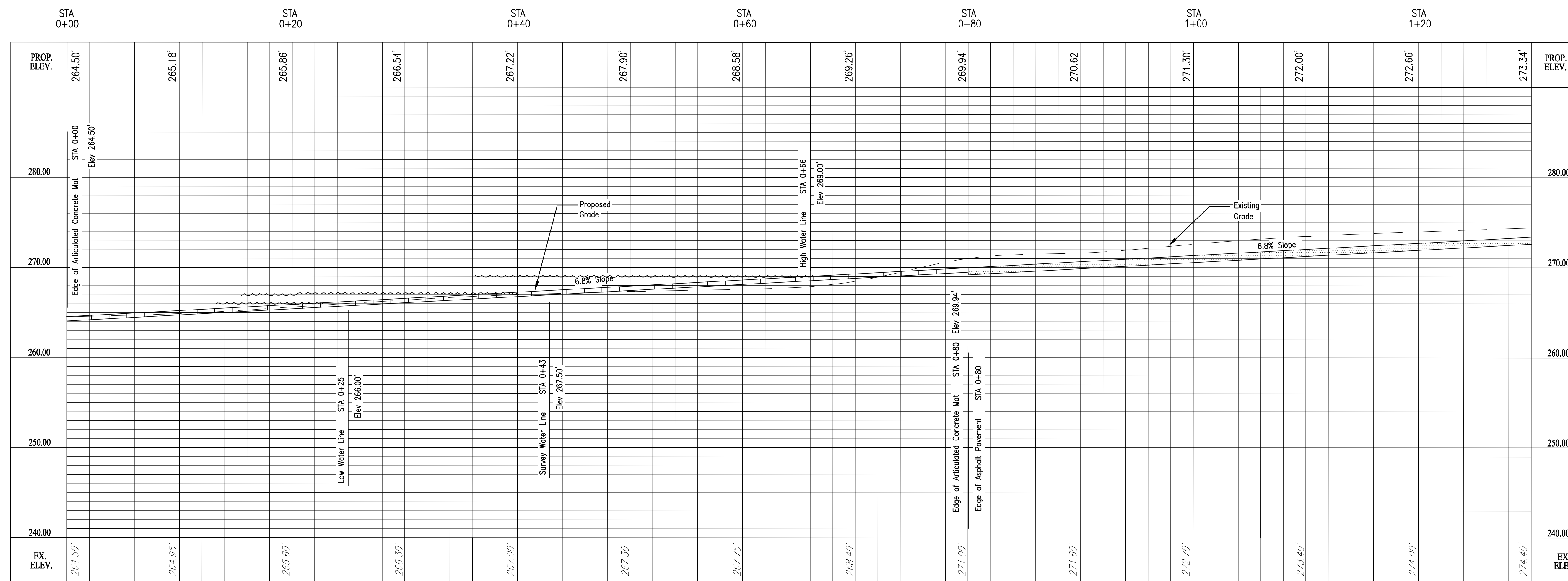
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 VILLAGE OF MADRID

PROJECT MANAGER DCasey	DEPARTMENT MANAGER DCastele	LEAD DESIGN PROF. FRamps	CHECKED BY Checked By
SHEET TITLE RIVER EDGE IMPROVEMENTS FLOATING PIER & GANGWAY		TASK/PHASE NUMBER Project Task	DRAWN BY FRamps
PROJECT NUMBER B0010877		DRAWING NUMBER C-5 OF	



PLAN



PROFILE

SCALE:
 HORZ: 1" = 5'
 VERT: 1" = 6'

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Acad Version: R18.1s (LMS Tech)
 User Name: hampis

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REV.	ISSUED DATE	DESCRIPTION
0	6-18-12	Work Plan

KEYPLAN	SEAL	SEAL
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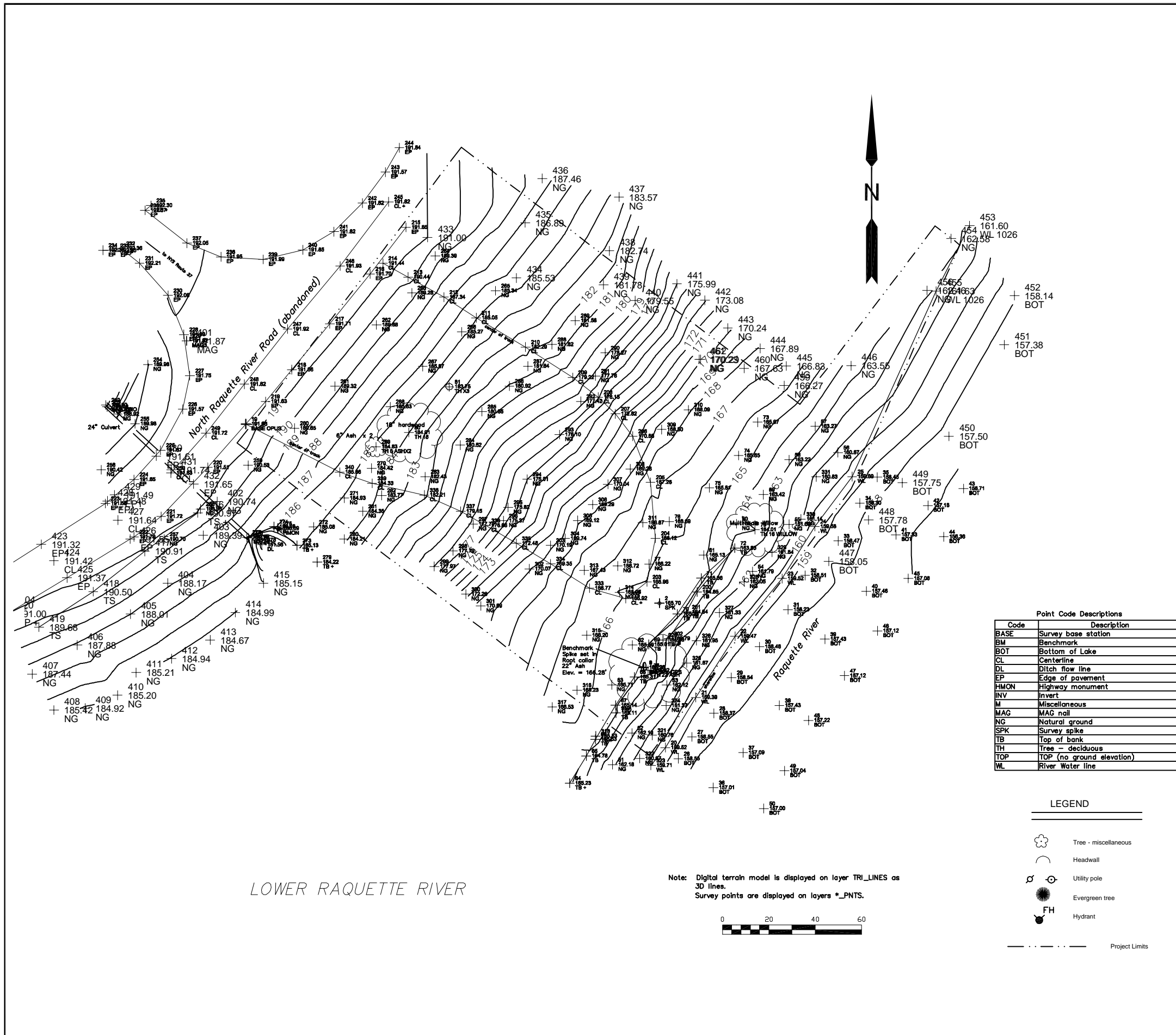
ARCADIS
 6723 Towpath Road
 Syracuse NY, 13214
 315-764-2239

ST. LAWRENCE COUNTY, NEW YORK
 NRD RECREATIONAL
 RIVER ACCESS IMPROVEMENTS
 VILLAGE OF MADRID

PROJECT MANAGER DCasey	DEPARTMENT MANAGER DCastele	LEAD DESIGN PROF. FRamps	CHECKED BY Checked By
SHEET TITLE RIVER ACCESS RAMP PLAN/PROFILE		TASK/PHASE NUMBER Project Task	DRAWN BY FRamps
		PROJECT NUMBER B0010877	DRAWING NUMBER C-6 OF

ATTACHMENT 2

Sites Topographic Surveys



- NOTES:
- 1) North arrow and coordinates are based on New York State Grid North, NAD 83 (96 CORS), East Zone, as determined by GPS observations.
 - 2) Elevations are based on NAVD 88 determined by static GPS observations as processed by U. S. National Geodetic Survey, GPUS program.
 - 3) This map is based on an actual field survey completed October 11, 2011 (easterly portion and river bottom), and an aerial photogrammetry completed in the month of March, 2005 (westerly land portion).

Point Code Descriptions	
Code	Description
BASE	Survey base station
BM	Benchmark
BOT	Bottom of Lake
CL	Centerline
DL	Ditch flow line
EP	Edge of pavement
HMON	Highway monument
INV	Invert
M	Miscellaneous
MAG	MAG nail
NG	Natural ground
SPK	Survey spike
TB	Top of bank
TH	Tree - deciduous
TOP	TOP (no ground elevation)
WL	River Water line

LEGEND	
	Tree - miscellaneous
	Headwall
	Utility pole
	Evergreen tree
	Hydrant
	Project Limits

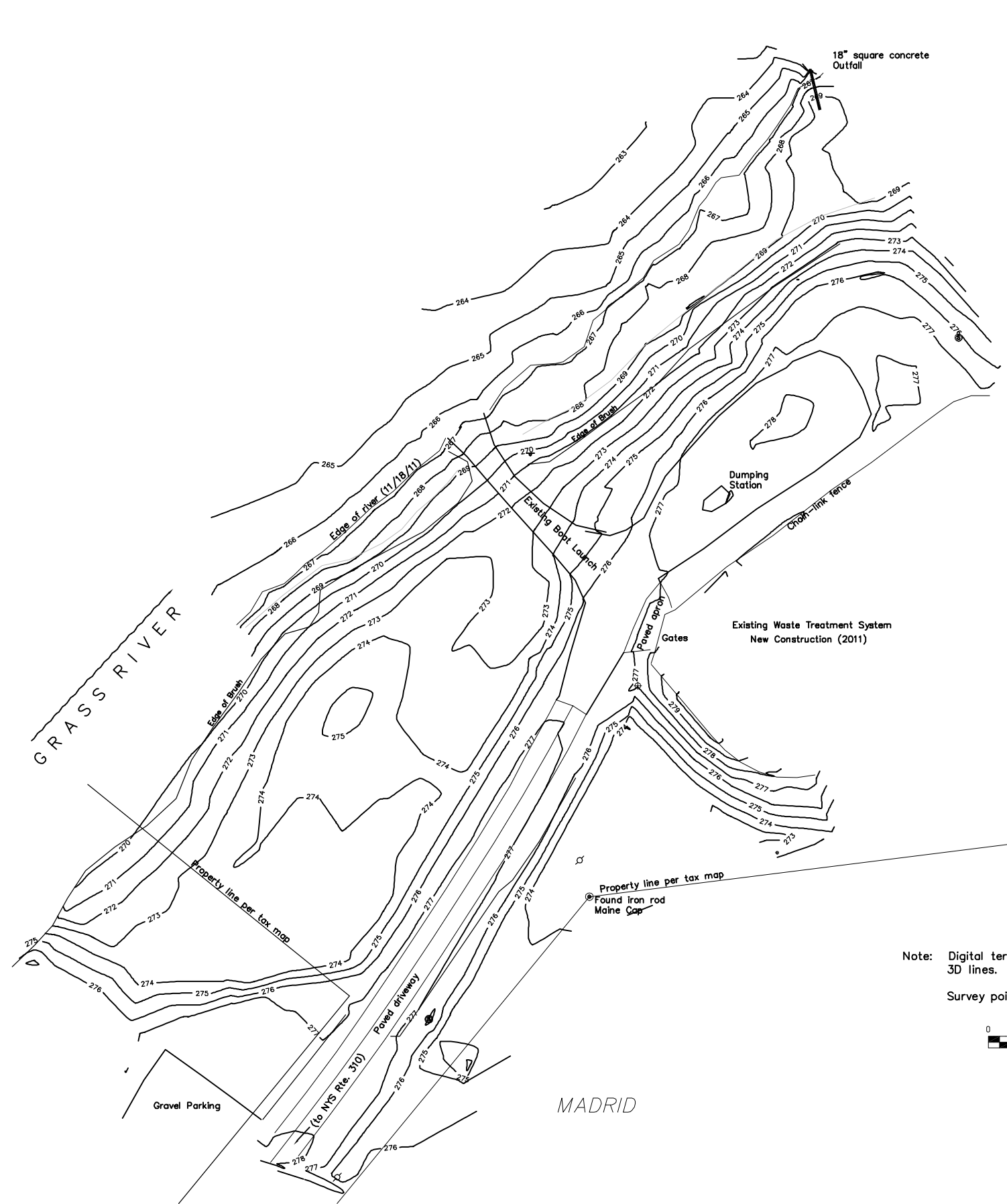
ST. LAWRENCE COUNTY, NEW YORK
NRD RECREATIONAL
RIVER ACCESS IMPROVEMENTS
SITE TOPOGRAPHIC SURVEY
LOWER RAQUETTE RIVER

PREPARED BY
WCT Surveyors, P. C.
Whelan, Chatelle, and Tonne
971 Judson Street Road, Canton, New York 13617
Voice: 315/379-7630 Fax: 315/379-7631 Email: wcto@wct.com

MAP OF SURVEY PREPARED FOR:
ARCADIS AND ALCOA
TOPOGRAPHIC SURVEY PROPOSED BOAT LAUNCH
NORTH OF RAQUETTE RIVER, RTE. 37

SITUATE IN:
TOWN OF MASSENA
COUNTY OF ST. LAWRENCE
STATE OF NEW YORK

DATE: 10/11/2011 rev 11/27/11 SCALE: 1 inch = 20 feet
TAX MAP ID # 10.001-1-31.1 FILE # 111-159B
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Note: Digital terrain model is displayed on layer TRI_LINES as 3D lines.
Survey points are displayed on layers *PNTS.



- NOTES:
- 1) North arrow and coordinates are based on New York State Grid North, NAD 83 (95 CORS), East Zone, as determined by GPS observations.
 - 2) Elevations are based on NAVD 88 determined by static GPS observations as processed by U. S. National Geodetic Survey, OPUS program.
 - 3) This map is based on an actual field survey completed November 18, 2011.

ST. LAWRENCE COUNTY, NEW YORK
NRD RECREATIONAL
RIVER ACCESS IMPROVEMENTS
SITE TOPOGRAPHIC SURVEY

MADRID

PREPARED BY
WCT Surveyors, P. C.
Wilhelm, Chatelle, and Tonne
971 Judson Street Road, Canton, New York 13617
Voice: 315/379-7630 Fax: 315/379-7631 Email: wctsa@wctsa.com

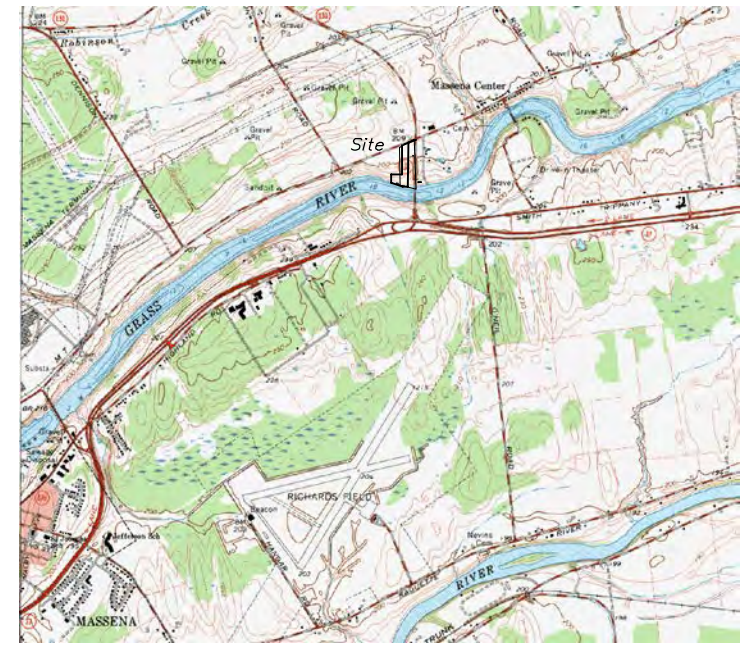
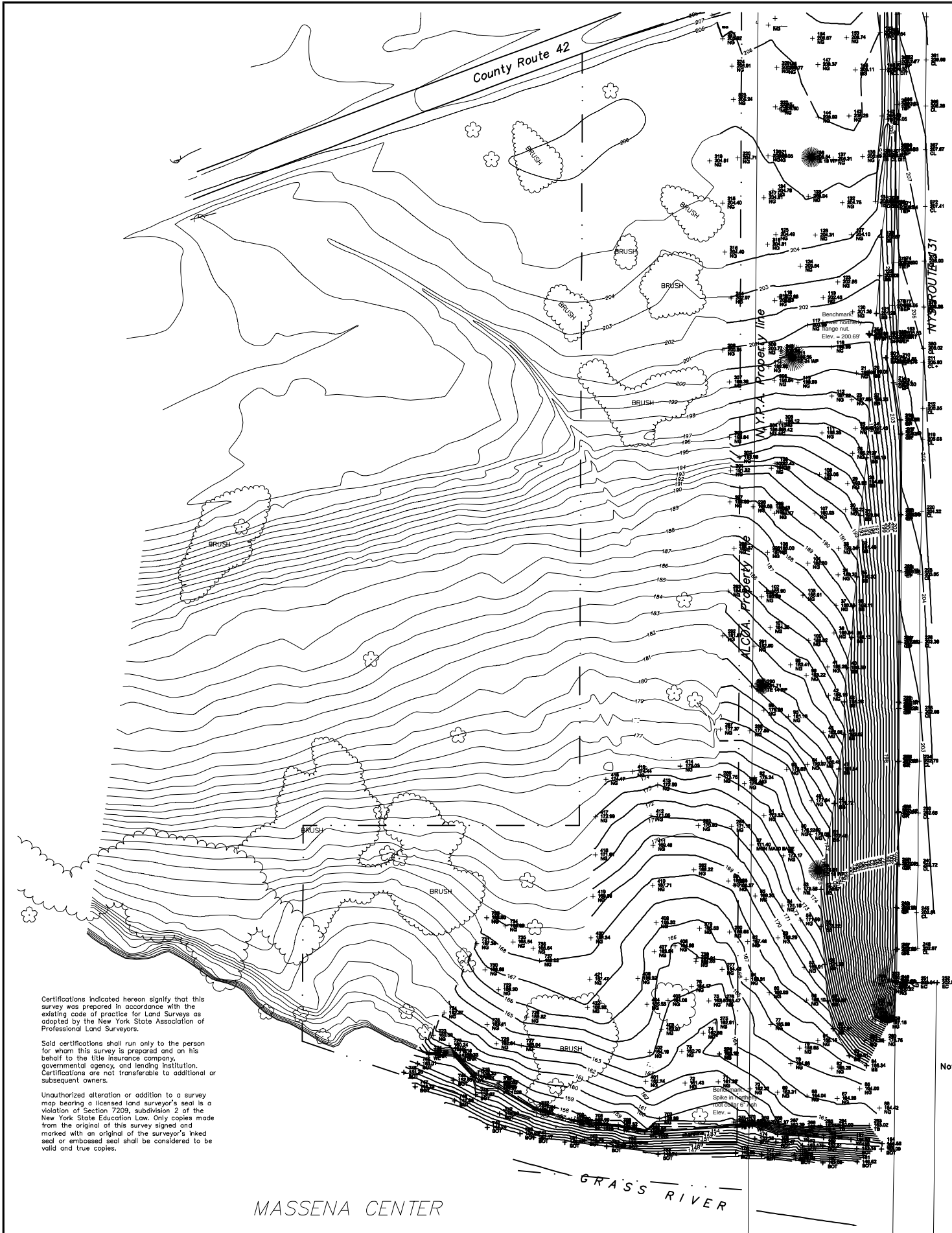
MAP OF SURVEY PREPARED FOR:
ARCADIS AND ALCOA
TOPOGRAPHIC SURVEY PROPOSED BOAT LAUNCH
TOWN OF MADRID WASTE TREATMENT SITE

SITUAITE IN:
TOWN OF MADRID
COUNTY OF ST. LAWRENCE
STATE OF NEW YORK

DATE: 11/22/2011 SCALE: 1 inch = 30 feet
TAX MAP ID # 41.070-4-4.1 FILE # 111-159E
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ARCADIS

FIGURE
2-5



SITE LOCATION MAP
RAQUETTE RIVER QUADRANGLE
SCALE: 1" = 2000'

Point Description Codes

Code	Description
BASE	Survey base station
BB	Bottom of bank
BOT	Bottom of Lake
BS	Bottom of slope
CL	Centerline
CLCL	INTERSECTION
CP	Check point
EC	Edge of concrete
EP	Edge of pavement
GR	Guide rail
GUY	Guy line anchor
HYD	Hydrant
INV	Invert
MON	Monument
NG	Natural ground
PP	Power pole
TB	Top of bank
TE	Tree - evergreen
WL	Water line

LEGEND

	Tree - miscellaneous
	Headwall
	Utility pole
	Evergreen tree
	Hydrant
	Project Limits

Note: Digital terrain model is displayed on layer TRI_LINES as 3D lines.
Survey points are displayed on layers *_PNTS.



- NOTES:**
- 1) North arrow and coordinates are based on New York State Grid North, NAD 83 (96 CORS), East Zone, as determined by GPS observations.
 - 2) Elevations are based on NAVD 88 determined by static GPS observations as processed by U. S. National Geodetic Survey, OPUS program.
 - 3) This map is based on an actual field survey completed October 11, 2011 (easterly portion and river bottom), and on aerial photography completed in the month of March, 2005 (westerly land portion).

Certifications indicated hereon signify that this survey was prepared in accordance with the existing code of practice for Land Surveys as adopted by the New York State Association of Professional Land Surveyors.

Said certifications shall run only to the person for whom this survey is prepared and on his behalf to the title insurance company, governmental agency, and lending institution. Certifications are not transferable to additional or subsequent owners.

Unauthorized alteration or addition to a survey map bearing a licensed land surveyor's seal is a violation of Section 7209, subdivision 2 of the New York State Education Law. Only copies made from the original of this survey signed and marked with an original of the surveyor's inked seal or embossed seal shall be considered to be valid and true copies.

ST. LAWRENCE COUNTY, NEW YORK
NRD RECREATIONAL
RIVER ACCESS IMPROVEMENTS
SITE TOPOGRAPHIC SURVEY

MASSENA CENTER

PREPARED BY
WCT SURVEYORS, P. C.
William, Chatelle, and Tonne
971 Judson Street Road, Canton, New York 13617
Voice: 315/379-7830 Fax: 315/379-7831 Email: wctsa@ic.com

MAP OF SURVEY PREPARED FOR:
ARCADIS AND ALCOA
TOPOGRAPHIC SURVEY PROPOSED BOAT LAUNCH
NORTH OF GRASS RIVER, RTE. 131

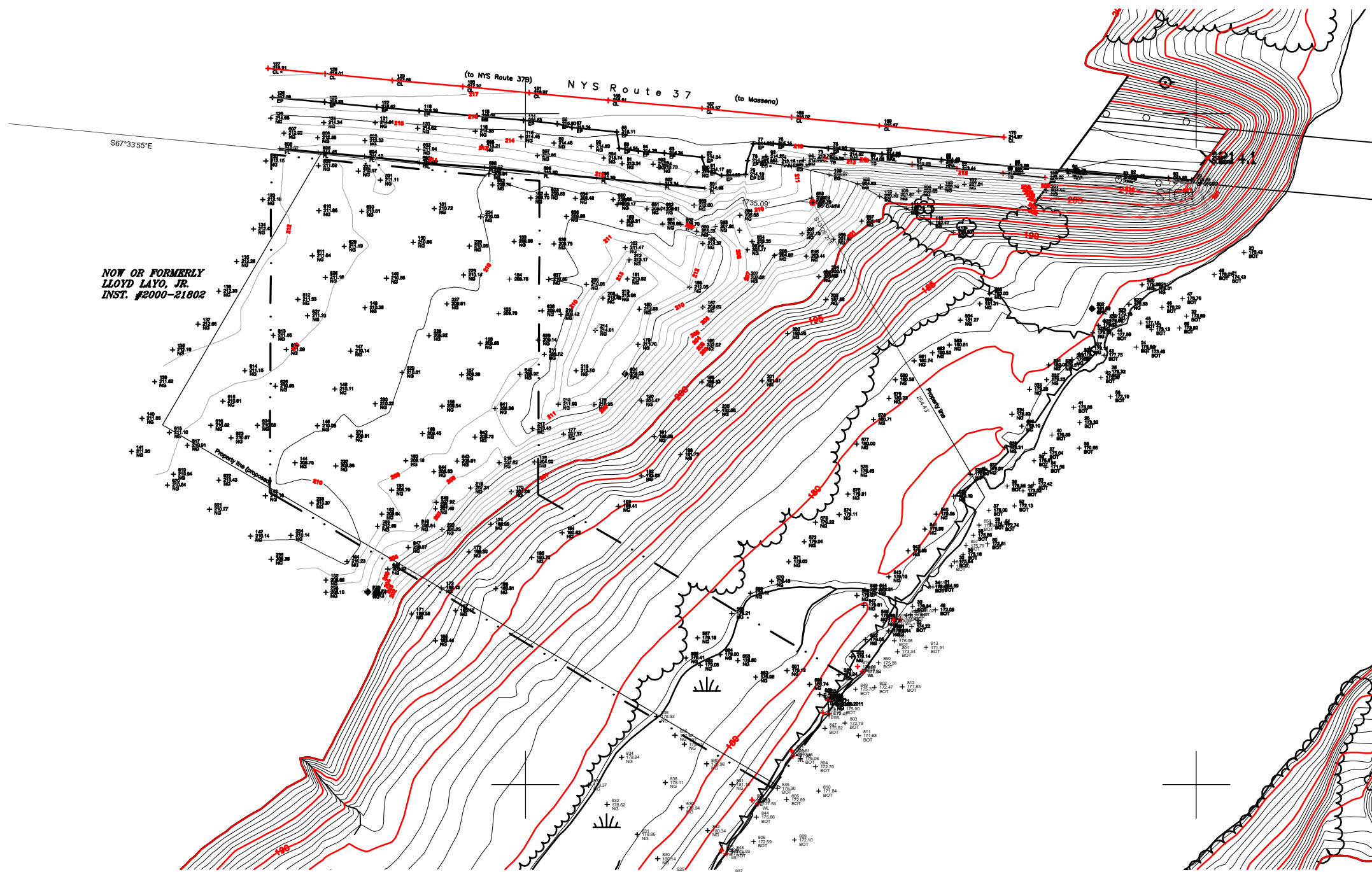
SITUATE IN:
TOWN OF MASSENA
COUNTY OF ST. LAWRENCE
STATE OF NEW YORK

DATE: 10/11/2011 SCALE: 1 inch = 50 feet
TAX MAP ID # 10.001-1-31.1 FILE # 111-1588
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ARCADIS

MASSENA CENTER

GRASS RIVER



NOW OR FORMERLY
LLOYD LAYO, JR.
INST. #2000-21802

ROUTE 37 BRIDGE

Code	Description
BASE	Survey base station
BOT	Bottom of Lake
CL	Centerline
EG	Edge of gravel
EP	Edge of pavement
FCR	Fence corner
FL	Fence line
IRF	Iron rod found
NG	Natural ground
SPK	Survey spike
STK	Stake
TB	Top of bank
WL	Water line

LEGEND

- Tree - miscellaneous
- Headwall
- Utility pole
- Evergreen tree
- Hydrant
- Project Limits

Note: Digital terrain model is displayed on layer TRI_LINES as 3D lines.
Survey points are displayed on layers *_PNTS.



SITE LOCATION MAP

MASSENA QUADRANGLE
SCALE: 1" = 2000'

ST. LAWRENCE COUNTY, NEW YORK
NRD RECREATIONAL
RIVER ACCESS IMPROVEMENTS
SITE TOPOGRAPHIC SURVEY

ROUTE 37 BRIDGE

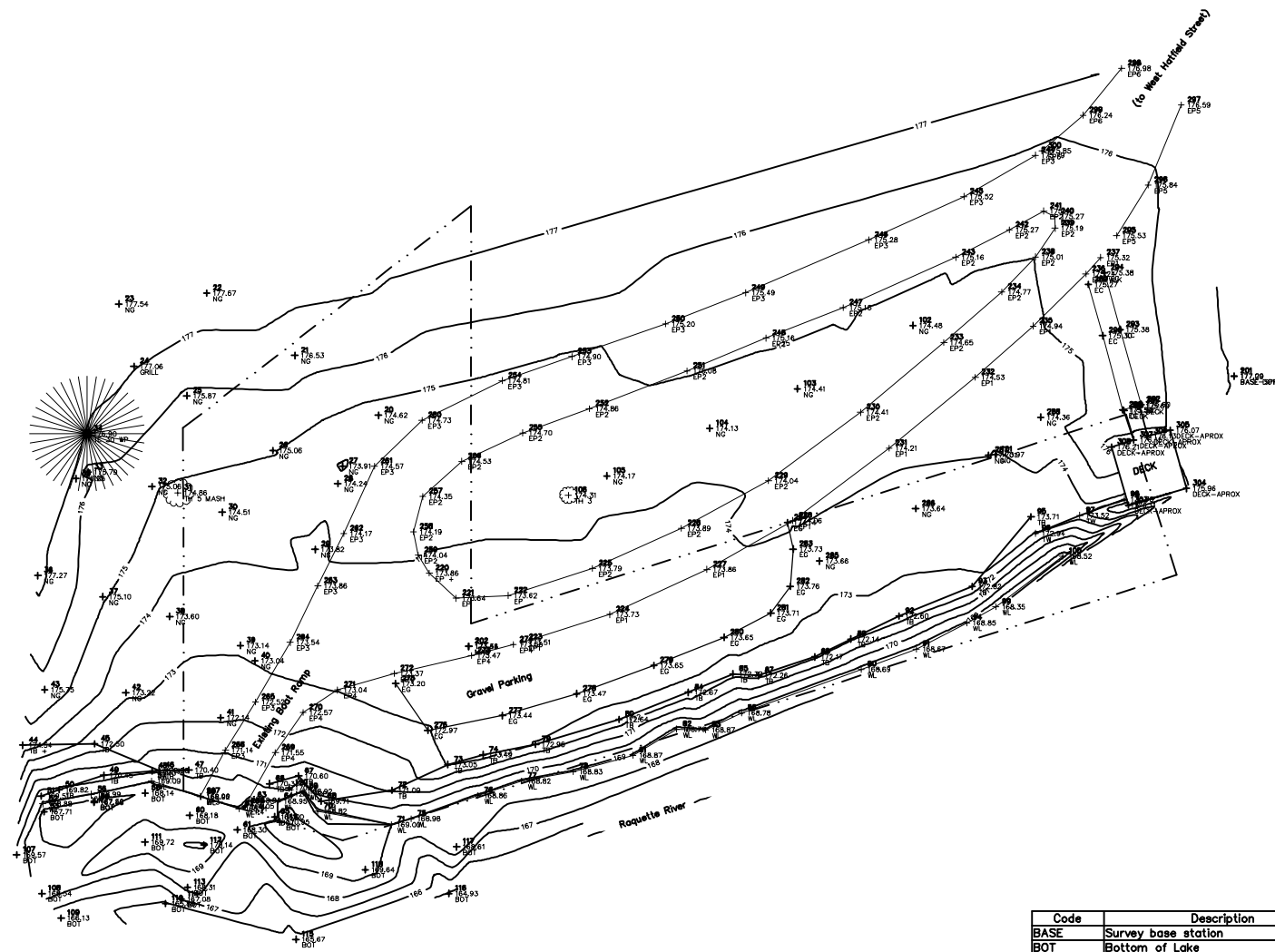
PREPARED BY
WCT Surveyors, P. C.
Wilhelm, Chatello, and Towne
971 Hudson Street Road, Canton, New York 13617
Voice: 315/379-7630 Fax: 315/379-7631 Email: wctsa@att.com
MAP OF SURVEY PREPARED FOR:
ARCADIS AND ALCOA
TOPOGRAPHIC SURVEY PROPOSED BOAT LAUNCH SITE
LAYO PROPERTY, NYS RTE. 37

SITUATE IN: TOWN OF LOUISVILLE
COUNTY OF ST. LAWRENCE
STATE OF NEW YORK

DATE: 10/26/2011 SCALE: 1 inch = 40 feet
TAX MAP ID # 9.003-3-83 FILE # 111-159Layo
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FIGURE
2-3



SPRINGS PARK

Code	Description
BASE	Survey base station
BOT	Bottom of Lake
DECK	Deck
EC	Edge of concrete
EG	Edge of gravel
EP	Edge of pavement
MAG	MAG nail
NG	Natural ground
TB	Top of bank
TE	Tree - evergreen
TH	Tree - deciduous
TW	Top of wall
WL	Water line

LEGEND

- Tree - miscellaneous
- Headwall
- Utility pole
- Evergreen tree
- Hydrant
- Project Limits



SITE LOCATION MAP

MASSENA QUADRANGLE
SCALE: 1" = 2000'

ST. LAWRENCE COUNTY, NEW YORK
NRD RECREATIONAL
RIVER ACCESS IMPROVEMENTS
SITE TOPOGRAPHIC SURVEY

SPRINGS PARK

PREPARED BY
WCT Surveyors, P. C.
Wilhelm, Chatelle, and Towne
871 Hudson Street Road, Cortland, New York 13817
Voice: 315/379-7630 Fax: 315/379-7637 Email: wct@wct.com

MAP OF SURVEY PREPARED FOR:
ARCADIS AND ALCOA
TOPOGRAPHIC SURVEY OF PROPOSED BOAT LAUNCH SITE
MASSENA SPRINGS PARK

SITUATE IN:
VILLAGE & TOWN OF MASSENA
COUNTY OF ST. LAWRENCE
STATE OF NEW YORK

DATE: 10/26/2011 SCALE: 1 inch = 20 feet
TAX MAP ID # 9.083-5-17.1 FILE # 111-159Springs
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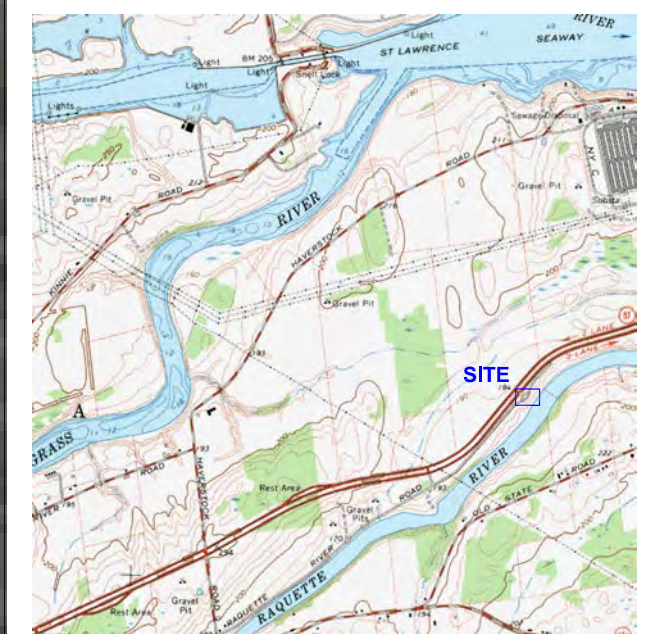


FIGURE
2-4

ATTACHMENT 3

Sites Wetland Investigation

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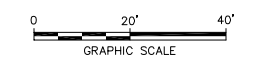
SITE LOCATION MAP RAQUETTE RIVER QUADRANGLE
SCALE: 1" = 2000'

LEGEND

- Tree - miscellaneous
- Headwall
- Utility pole
- Evergreen tree
- Hydrant
- Project Limits
- Indicates Wetland continues beyond Wetland Assessment Area

NOTES:

1. BASMAP PROVIDED BY WCT SURVEYORS, P.C.
2. NORTH ARROW AND COORDINATES ARE BASED ON NEW YORK STATE GRID NORTH, NAD 83 (96 CORS), EAST ZONE, AS DETERMINED BY GPS OBSERVATIONS.
3. ELEVATIONS ARE BASED ON NAVD 88 DETERMINED BY STATIC GPS OBSERVATIONS AS PROCESSED BY U. S. NATIONAL GEODETIC SURVEY, OPUS PROGRAM.
4. THIS MAP IS BASED ON AN ACTUAL FIELD SURVEY COMPLETED NOVEMBER 18, 2011.



ST. LAWRENCE COUNTY, NEW YORK
NRD RECREATIONAL ACCESS IMPROVEMENTS
WETLAND DELINEATION REPORT

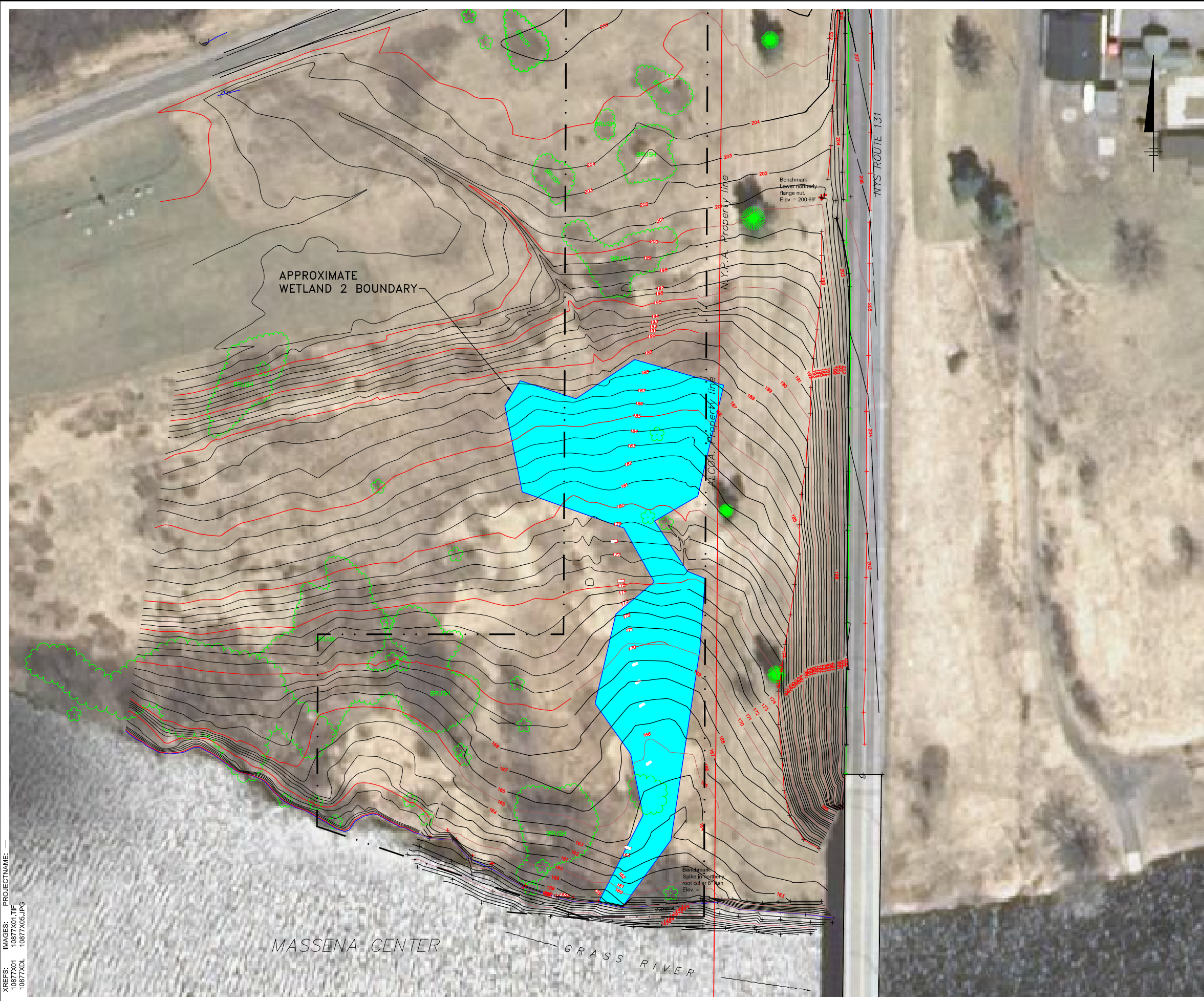
LOWER RAQUETTE RIVER SITE



FIGURE
6

LOWER RAQUETTE RIVER

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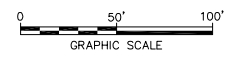
SITE LOCATION MAP RAQUETTE RIVER QUADRANGLE
 SCALE: 1" = 2000'

LEGEND

- Tree - miscellaneous
- Headwall
- Utility pole
- Evergreen tree
- FH
- Hydrant
- Project Limits

NOTES:

1. BASMAP PROVIDED BY WCT SURVEYORS, P.C.
2. NORTH ARROW AND COORDINATES ARE BASED ON NEW YORK STATE GRID NORTH, NAD 83 (96 CORS), EAST ZONE, AS DETERMINED BY GPS OBSERVATIONS.
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4. THIS MAP IS BASED ON AN ACTUAL FIELD SURVEY COMPLETED NOVEMBER 18, 2011.

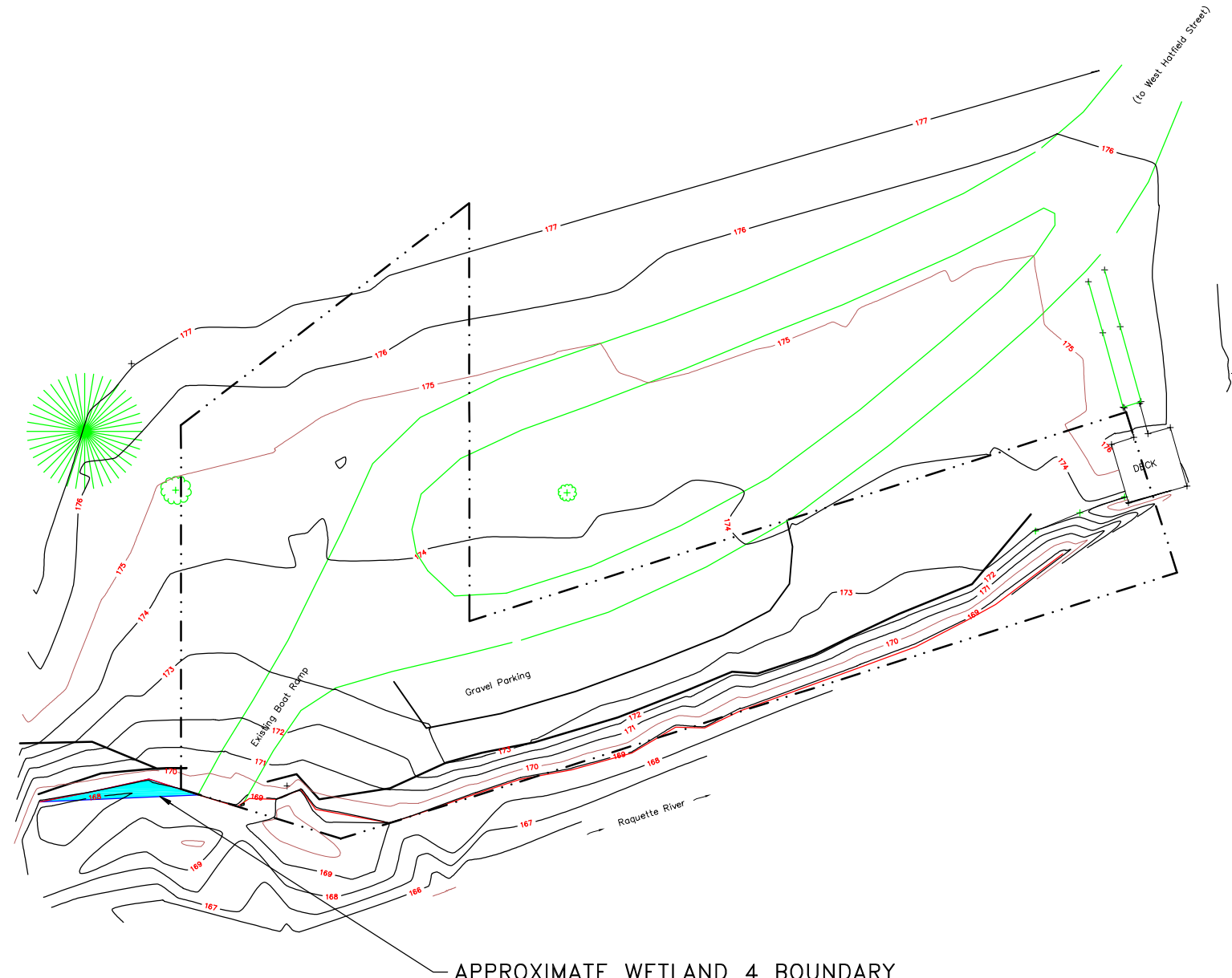


ST. LAWRENCE COUNTY, NEW YORK
 NRD RECREATIONAL ACCESS IMPROVEMENTS
WETLAND DELINEATION REPORT

MASSENA CENTER SITE

FIGURE
7

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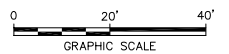
SITE LOCATION MAP
MASSENA QUADRANGLE
1" = 2000'

LEGEND

	Tree - miscellaneous
	Headwall
	Utility pole
	Evergreen tree
	Hydrant
	Project Limits

NOTES:

1. BASMAP PROVIDED BY WCT SURVEYORS, P.C.
2. NORTH ARROW AND COORDINATES ARE BASED ON NEW YORK STATE GRID NORTH, NAD 83 (96 CORS), EAST ZONE, AS DETERMINED BY GPS OBSERVATIONS.
3. ELEVATIONS ARE BASED ON NAVD 88 DETERMINED BY STATIC GPS OBSERVATIONS AS PROCESSED BY U. S. NATIONAL GEODETIC SURVEY, OPUS PROGRAM.
4. THIS MAP IS BASED ON AN ACTUAL FIELD SURVEY COMPLETED NOVEMBER 18, 2011.



APPROXIMATE WETLAND 4 BOUNDARY

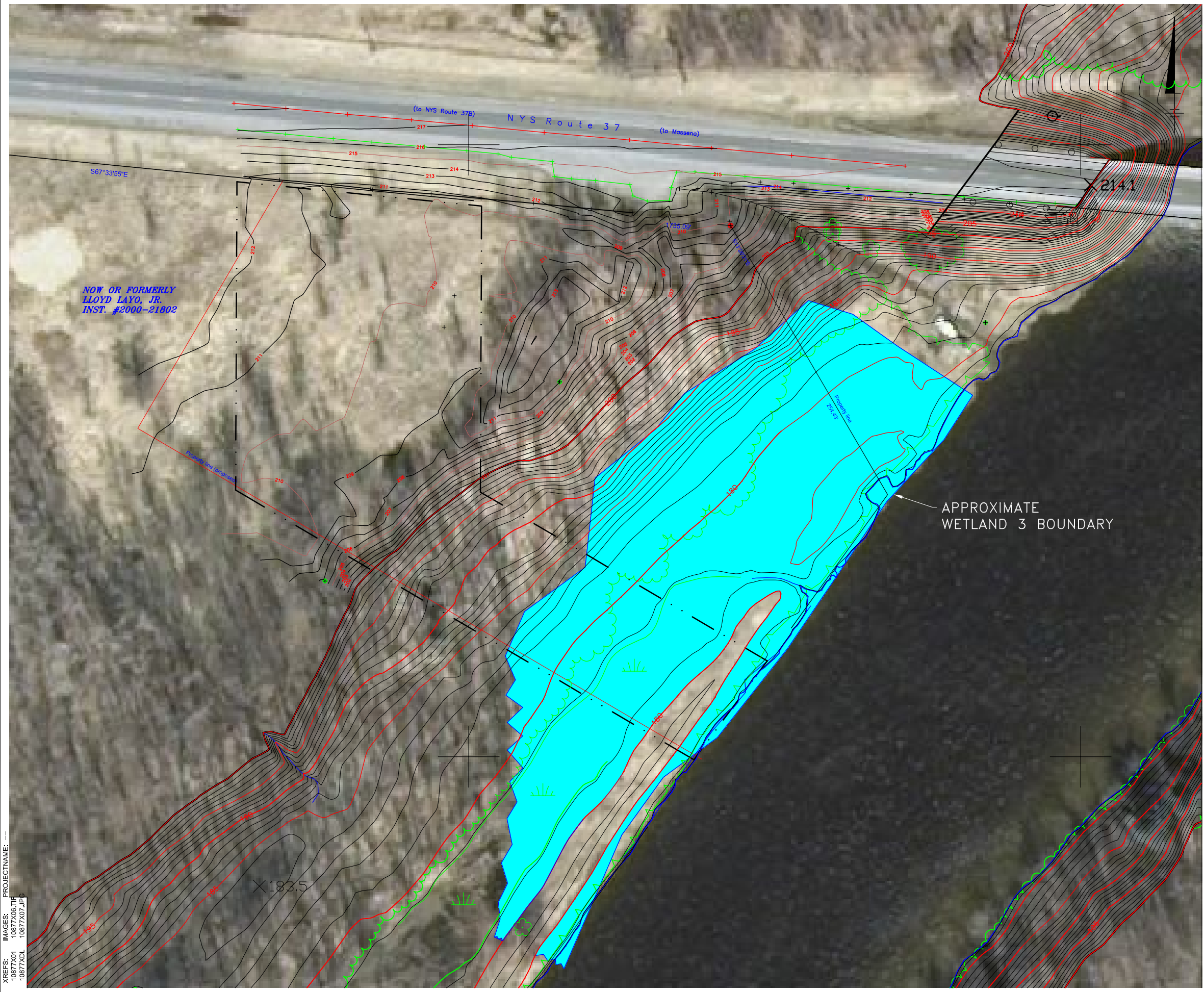
SPRINGS PARK

ST. LAWRENCE COUNTY, NEW YORK
NRD RECREATIONAL ACCESS IMPROVEMENTS
WETLAND DELINEATION REPORT

SPRINGS PARK

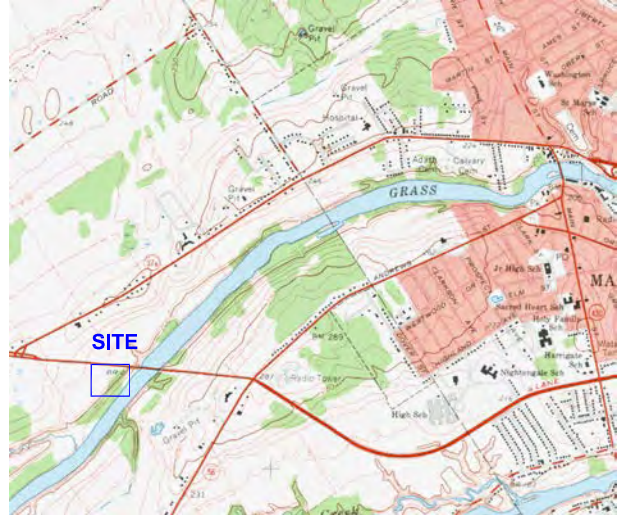
FIGURE
8

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NOW OR FORMERLY
LLOYD LAYO, JR.
INST. #2000-21802

APPROXIMATE
WETLAND 3 BOUNDARY



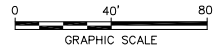
SITE LOCATION MAP
 MASSENA QUADRANGLE
 1" = 2000'

LEGEND

- Tree - miscellaneous
- Headwall
- Utility pole
- Evergreen tree
- Hydrant
- Project Limits
- Indicates Wetland continues beyond Wetland Assessment Area

NOTES:

1. BASMAP PROVIDED BY WCT SURVEYORS, P.C.
2. NORTH ARROW AND COORDINATES ARE BASED ON NEW YORK STATE GRID NORTH, NAD 83 (96 CORS), EAST ZONE, AS DETERMINED BY GPS OBSERVATIONS.
3. ELEVATIONS ARE BASED ON NAVD 88 DETERMINED BY STATIC GPS OBSERVATIONS AS PROCESSED BY U. S. NATIONAL GEODETIC SURVEY, OPUS PROGRAM.
4. THIS MAP IS BASED ON AN ACTUAL FIELD SURVEY COMPLETED NOVEMBER 18, 2011.



ST. LAWRENCE COUNTY, NEW YORK
 NRD RECREATIONAL ACCESS IMPROVEMENTS
WETLAND DELINEATION REPORT

RT 37 BRIDGE SITE

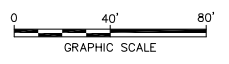
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SITE LOCATION MAP MORLEY QUADRANGLE
1" = 2000'

LEGEND	
	Tree - miscellaneous
	Headwall
	Utility pole
	Evergreen tree
	Hydrant
	Project Limits
	Indicates Wetland continues beyond Wetland Assessment Area

- NOTES:**
- BASMAP PROVIDED BY WCT SURVEYORS, P.C.
 - NORTH ARROW AND COORDINATES ARE BASED ON NEW YORK STATE GRID NORTH, NAD 83 (96 CORS), EAST ZONE, AS DETERMINED BY GPS OBSERVATIONS.
 - ELEVATIONS ARE BASED ON NAVD 88 DETERMINED BY STATIC GPS OBSERVATIONS AS PROCESSED BY U. S. NATIONAL GEODETIC SURVEY, OPUS PROGRAM.
 - THIS MAP IS BASED ON AN ACTUAL FIELD SURVEY COMPLETED NOVEMBER 18, 2011.



ST. LAWRENCE COUNTY, NEW YORK
 NRD RECREATIONAL ACCESS IMPROVEMENTS
WETLAND DELINEATION REPORT

MADRID

FIGURE
10

ATTACHMENT 4

Sites ADA Review

St. Lawrence County, New York

NRD Recreational River Access Improvements

Accessibility Review

Introduction

Alcoa, in cooperation with the New York State DEC, is proposing to complete site improvements to five parcels of property in St. Lawrence County, New York, to allow for enhanced recreational access to several local rivers. Each location is currently used for public river access and includes the following:

1. Lower Raquette River
2. Massena Center
3. Route 37 Bridge
4. Springs Park
5. Village of Madrid

Each of these locations currently have varying levels of river access, ranging from moderately developed to primitive. Each location will be improved to allow for river access for small boats, canoes and kayaks along with paved access from adjacent roadways and auto and boat trailer parking. Additionally, site improvements will be made to improve river edge recreational fishing at each location including boat launch ramps, floating boat docks and fishing/observation decks. Each of the sites will have a different combination of these improvements depending on the river use and anticipated popularity at each location. With the exception of Springs Park, neither facility will be developed for any other recreational uses and will not have any sanitary facilities or other structures. Springs Park has existing ADA accessible sanitary facilities along with other recreational items.

Prior to commencing with detailed engineering for each site, an accessibility review will be completed for recreational boating and fishing facilities in general and specifically for each site. This review will be completed utilizing Accessibility Guidelines as developed for the Americans with Disabilities Act.

Accessibilty Standards

The Americans with Disabilities Act (ADA) is a comprehensive civil rights law that prohibits discrimination throughout the United States on the basis of disability. The standards that apply to the accessibility to all buildings and other public and private facilities is the ADA Accessibility Guidelines (ADAAG). These guidelines require that newly constructed and altered facilities, places of public accommodation and commercial facilities be readily accessible to and usable by individuals with disabilities. Recreation facilities including boating and fishing structures are required to comply with these guidelines.

General Facilities Accessibility Standards are provided in ADAAG Section 4, Accessible Elements and Spaces. These standards deal primarily with general site and building accessibility issues that apply to most new and altered facilities and buildings. Key site items include: accessible routes, walking surfaces, ramps, parking spaces and handrails.

In 2002, a supplemental document was issued to the main ADAAG standards that deal specifically with recreational facilities. This new supplement has been added to the ADAAG standards as Section 15, Accessible Standards for Recreational Facilities. These guidelines are further broken out into standards for recreational boating facilities as well as fishing piers and platforms (15.2 and 15.3). Included are accessibility guidelines for boat piers, boat launch ramps as well as fishing piers and fishing decks. In these guidelines, emphasis is placed on ensuring that individuals with disabilities are generally able to access and fully utilize these recreational opportunities.

A full review of these accessibility standards will be completed for the new recreational facilities proposed for the Grass and Raquette Rivers in St. Lawrence County New York.

ADAAG Section 4 - Accessible Elements and Spaces

ADAAG Section 4 applies to all areas of newly designed or newly constructed buildings and facilities and provides the minimum requirements for accessibility at the proposed new and altered recreational facilities. Areas of this Section that will apply to the St. Lawrence County facilities are as stated below.

4.1 Minimum Requirements

4.1.2 Accessible Sites and Exterior Facilities: New Construction

- (1) *At least one accessible route shall be provided within the boundary of the site from accessible parking spaces and passenger zones to exterior facilities.*
- (4) *Ground surfaces along accessible routes shall comply with Section 4.5, Ground and Floor Surfaces.*
- (5)(a) *If parking spaces are provided for visitors, then accessible spaces shall be provided.*
 - *1 to 25 spaces* *Minimum 1 accessible space*
 - *26 to 50 spaces* *Minimum 2 accessible spaces*
- (b) *One in every eight accessible spaces, but not less than one, shall be served by an access aisle 96 inches wide minimum and shall be designated "van accessible".*
- (c) *If passenger loading zones are provided, then at least one passenger zone shall comply with Section 4.6.6, Parking and Passenger Loading Zones.*
- (7)(a) *Parking spaces designated as reserved for individuals with disabilities shall be identified with permanent signage.*

4.2 Space Allowance and Reach Ranges

4.2.3 Wheelchair Turning Space

The space required for a wheelchair to make a 180 degree turn as a clear space of 60 inches diameter or a T-shaped space.

4.2.4 Clear Floor or Ground Space for Wheelchairs

The minimum clear floor or ground space required to accommodate a single stationary wheelchair and occupant is 30 inches by 48 inches. One full unobstructed side of the clear floor or ground space for a wheelchair shall adjoin or overlap an accessible route.

4.3 Accessible Route

4.3.3 Width

The minimum clear width of an accessible route shall be 36 inches.

4.3.4 Passing Space

If an accessible route has less than 60 inches clear width, then passing spaces at least 60 inches by 60 inches shall be located at reasonable intervals not to exceed 200 feet.

4.3.7 Slope

An accessible route with a running slope greater than 1:20 is a ramp and shall comply with section 4.8, Ramps. Nowhere shall the cross slope of an accessible route exceed 1:50.

4.5 Ground and Floor Surfaces

4.5.1 General

Ground and floor surfaces along accessible routes shall be stable, firm and slip resistant.

Addendum 4.5

Wheel chairs can be propelled most easily on surfaces that are hard, stable and regular. Soft, loose surfaces such as sand or gravel, wet clay and irregular surfaces such as cobblestone can significantly impede wheelchair movement.

4.6 Parking and Passenger Loading Zones

4.6.2 Location

Accessible parking spaces shall be located on the shortest accessible route of travel from adjacent parking to accessible entrance to the exterior facility.

4.6.3 Parking Spaces

Accessible parking spaces shall be at least 96 inches wide. Parking access aisles shall not be part of an accessible route to the facility entrance. Parking spaces and access aisles shall be level with surface slopes not exceeding 1:50 (2%) in all directions.

4.6.4 Signage

Accessible parking Spaces shall be designated as reserved by a sign showing the symbol of accessibility. Such signs shall be located so they cannot be observed by a vehicle parked in the space.

4.6.6 Passenger Loading Zones

Passenger loading zones shall provide an access aisle at least 60 inches wide and 20 feet long adjacent and parallel to the vehicle pull up space. Vehicle standing spaces and access aisles shall be level with surface slopes not exceeding 1:50 (2%) in all directions.

4.8 Ramps

4.8.1 General

Any part of an accessible route with a slope greater than 1:20 shall be considered a ramp.

4.8.2 Slopes and Rise

The least possible slope shall be used for any ramp. The maximum slope of a ramp in new construction shall be 1:12. The maximum rise for any run shall be 30 inches.

4.8.4 Landings

Ramps shall have level landings at the top and bottom of each ramp.

- (1) The landing shall be at least as wide as ramp run leading to it.*
- (2) The landing length shall be a minimum of 60 inches clear.*
- (3) The minimum landing size shall be 60 inches x 60 inches if the ramp changes direction.*

4.8.5 Handrails

If a ramp run has a rise greater than 6 inches or a horizontal projection greater than 72 inches, then it shall have handrails on both sides.

4.8.6 Cross Slopes and Surfaces

The cross slope of ramp surfaces shall be no greater than 1:50. Ramp surfaces shall comply with Section 4.5.

ADAAG Section 15 – Accessibility Standards for Recreational Facilities

ADAAG Section 15 applies to accessibility requirements for design and construction of recreational facilities and elements. Section 15.2 applies to Recreation Boating Facilities and Section 15.3 applies to Fishing Piers and Platforms.

15.2 Boating Facilities

15.2.2 Accessible Routes

An accessible route must connect accessible boat slips with other accessible elements on the same site. Several exceptions modify the accessible route requirements as they relate to connecting to floating piers. No exceptions are provided for accessing permanent piers.

Exception 3 - permits gangways to exceed the maximum slope specified in ADAAG 4.8.2 where the length of the gangway, serving as a part of the accessible route, is at least 80 feet.

Exception 4 - For boating facilities with less than 25 boat slips, gangways may exceed the maximum slope specified in ADAAG 4.8.2 where the total length of the gangway serving as part of a required accessible route is at least 30 feet.

Exception 5 - Permits transition plates to be located at the ends of gangways instead of the landings specified in ADAAG 4.8.4.

15.2.3 Boat Slips: Minimum Number

The number of accessible boats slips required is a minimum of one for 1 to 25 total slips.

15.2.4 Boarding Piers at Boat Launch Ramps

15.2.4.1 Boarding Pier Clearances

Boat slips associated with boat ramps are considered boarding piers.

ADAAG ramp requirements do not apply to the portion of the accessible route serving a floating boarding pier or skid pier if located within a boat launch ramp.

- *There are no specific provisions that address access to launch ramps without boarding piers. It is recommended that an accessible route*

service at least one launch ramp. The portion of the accessible route located within the launch ramp is not required to comply with the slope requirements for accessible routes.

15.2.5 Accessible Boat Slips

15.2.5.1 Clearances

Accessible boat slips must have a clear pier space at least 60 inches wide and as long as the slip. Every 10 linear feet of pier edge serving the accessible slip must have at least one continuous opening at least 60 inches wide.

Edge protection is not required, but if provided, it can be 4 inches high maximum and 2 inches deep maximum the continuous clear opening.

15.2.5.2 Cleats and Other Boat Securing Devices

Cleats and other boat securement devices at accessible slips do not have to comply with ADAAG reach range requirements. However, clear space must be provided at each securement device and each device must be located on an accessible route.

15.3 Fishing Piers and Platforms

15.3.2 Accessible Route

Accessible routes, including gangways that are part of the accessible route, must comply with ADAAG 4.3. The accessible route must comply with all provisions for location, width passing space etc.

Exceptions as listed in Section 15.2.2 apply as well for Fishing Piers and Platforms.

Gangways must be designed to provide for a maximum 1:12 (8.33%) slope, but, are not required to be longer than 30 feet in length. There are no maximum length requirements for gangways.

Gangways are not required to have landings at the end if transition plates are provided, unless the slope of the transition plate is greater than 1:20 (5%).

15.3.3 Railings

15.3.3.1 Edge Protection

Edge protection is required to extend a minimum of 2 inches above the deck surface.

Exception: Where railing or handrail is 34 inches or less above the deck surface, edge protection is not required if the deck surface extends 12 inches minimum beyond the inside face of the railing.

15.3.3.2 Height

Where railings, guards or handrails are provided on a fishing platform, at least 25% of the rails must be 34 inches or less in height above the deck. Other railing higher than 34 inches must conform to all requirements of the International Building Code (IBO).

IBO 2000

1003.2.12.1 Height

Guards shall form a protective barrier not less than 42" high measured vertically above the leading edge of the walking surface.

1003.2.12.2 Opening Limitations

Open guards shall have balusters such that a 4 inch diameter sphere cannot pass through any opening up to the height of 34 inches.

15.3.3 Dispersion

Portions of the railings that are at the lower height shall be located in a variety of locations on the fishing platform to provide a variety of fishing opportunities.

15.3.4 Clear Floor or Ground Space

At least one clear floor or ground space must comply with ADAAG 4.2.4 (30 inches x 48 inches minimum) at each location that has a railing height of 34 inches.

15.3.5 *Maneuvering Space*

At least one maneuvering space complying with ADAAG 4.2.3 must be provided on a fishing platform. The maneuvering space is permitted to overlap the accessible route and the clear floor space required in Section 15.3.4.

Site Accessibility Review

Lower Raquette River

Site Description

The Lower Raquette River site is located immediately adjacent to Route 37 approximately 5 miles east of the Town of Massena. The site limits begin at a lightly used access road to the adjacent 4 lane Route 37 Highway. From the Access Road, a small flat area leads to a moderate slope down to a flat area adjacent to the river. The site is moderately tree'd with the area adjacent to the river being clear of trees. The site is currently being utilized as a primitive river access to the lower Raquette River by local canoe and kayak enthusiasts.

Site Improvements

The proposed site improvements will enhance the current river access by adding hard surface parking and access drives as well as improved river edge facilities for launching canoes/kayaks as well as fishing. An important part of the site improvements will be to provide for easy accessibility for disabled individuals who enjoy and participate in boating and fishing. The primary site improvements include:

1. Paved auto and boat trailer parking.
2. Paved access to the river edge.
3. Paved boat/passenger load/unload area.
4. Hard surface boat launch ramp.
5. Wooden river edge Fishing Deck.
6. Accessible access to all river edge facilities.

The site will remain as a river access point for canoes and kayaks and other small non-motorized boats.

Accessibility Standards

The following Accessibility Standards apply at this location:

- 4.1 Accessible parking space and accessible route.
- 4.2 Wheelchair turning and clear floor space.
- 4.3 Accessible route width.
- 4.5 Accessible route ground surface materials.
- 4.6 Parking and passenger load zone sizes and surface slopes.

- 15.2 Boat launch ramp requirements.
- 15.3 Fishing platform and accessible route requirements

Site Review

The Lower Raquette River site poses several challenges for providing easy accessibility for disabled individuals. The primary auto parking will be located at the top of the hill with vehicle drives and a pedestrian walk connecting down the slope to the river edge facilities. This slope is far in excess of the maximum accessible slope requirements and it would be impractical to provide an accessible path down the slope. The proposed site plan instead provides for one dedicated, hard surface accessible parking space at the bottom of the slope along with a boat/passenger drop off zone adjacent to the river edge facilities. These improvements will provide easy access to the river access for disabled canoe/kayak users.

A fishing platform is proposed for this location 50 feet downstream from the river access area. At this stage of the project design, the fishing platform is only located. This platform must be sized to handle wheelchair turning and clear floor space, per ADAAG 4.2, and shall include areas with maximum 34 inch railing height.

An accessible route will be provided to both the river access ramp and the fishing pier on a 60 inch wide, hard surface path. The path should maintain the maximum running and cross slopes for accessible routes including the full route to the fishing platform.

It appears that accessibility requirements can be met at the proposed improved river access site.

Site Accessibility Review

Massena Center

Site Description

The Massena Center site is located adjacent to the Route 131 bridge crossing the Grasse River approximately 2 miles east of the Town of Massena. The site access will be from Massena Center Road approximately 800 feet north of the Grasse River. The site slopes moderately and consistently from Massena Center Road to the proposed site improvements near the river. The site is lightly tree'd with the area adjacent to the river being lightly vegetated. The site is currently an undeveloped parcel with no existing river access use. The site was identified as a prime location for river recreation opportunities in the immediate Massena area.

Site Improvements

The proposed site improvements will provide a hard access drive and surface parking as well as new river edge facilities for launching canoes/kayaks and small boats. Additionally, a new fishing platform will be constructed to provide river edge fishing opportunities along the river. An important part of the site improvements will be to provide for easy accessibility for disabled individuals who enjoy and participate in boating and fishing activities. The primary site improvements include:

1. Paved access road from Massena Center Road.
2. Paved auto and trailer parking.
3. Paved boat/passenger load/unload area.
4. Hard surface boat launch ramp.
5. Floating river access dock adjacent to the launch ramp.
6. Wooden river edge Fishing Deck.
7. Accessible access to all river edge facilities.

The site will provide a new river access point on the Grasse river for canoes and kayaks and other small non-motorized as well as motorized boats.

Accessibility Standards

The following Accessibility Standards apply at this location:

- 4.1 Accessible parking space and accessible route.
- 4.2 Wheelchair turning and clear floor space.
- 4.3 Accessible route width.
- 4.5 Accessible route ground surface materials.

- 4.6 Parking and passenger load zone sizes and surface slopes.
- 15.2 Boat boarding pier and launch ramp requirements.
- 15.3 Fishing platform and accessible route requirements

Site Review

The Massena Center site can provide a highly usable river access facility that can include easy accessibility for disabled individuals to all of the recreational river activities available. The primary site auto parking will be located near the river edge access facilities, upslope of the seasonal high water elevation. This will allow accessible parking to be adjacent to the river access facilities. The proposed site plan includes accessible parking spaces and a boat/passenger load zone in the primary parking lot with easy access to the fishing platform and the boat launch ramp and pier.

A fishing platform is proposed for this location 100 feet upstream from the river access area. At this stage of the project design, the fishing platform is only located. This platform must be sized to handle wheelchair turning and clear floor space, per ADAAG 4.2, and shall include areas with maximum 34 inch railing height.

An accessible route will be provided to both the river access ramp and the fishing pier on a 60 inch wide, hard surface path. The path should maintain the maximum running and cross slopes for accessible routes including the full route to the fishing platform.

It appears that accessibility requirements can be met at the proposed improved river access site.

Site Accessibility Review

Route 37 Bridge

Site Description

The Route 37 Bridge site is located adjacent to the Route 37 bridge crossing the Grasse River approximately 2 miles west of the Town of Massena. The site access will be from Route 37 approximately 600 feet west of the Grasse River. The site slopes slightly from the west as it approaches the river. Approximately 200 feet from the river, the site slope increases significantly down to a flat, seasonably flooded area adjacent to the river. The site is lightly vegetated on the upland portion of the site. The steep slope area has a heavy tree cover and the area adjacent to the river is vegetated with typical wet zone vegetation. The site is currently utilized by local residents for small boat and canoe/kayak access to the river. Current river access facilities are primitive and un-maintained. Minimal parking is available adjacent to Route 37.

Site Improvements

The proposed site improvements will provide a hard access drive and surface parking as well as new river edge facilities for launching canoes/kayaks and small boats. Additionally, the existing river access area will be minimally improved to provide for shoreline fishing opportunities on the river. An important part of the site improvements will be to provide for easy accessibility for disabled individuals who enjoy and participate in boating and fishing activities. The primary site improvements include:

1. Paved access road from route 37.
2. Paved auto and trailer parking.
3. Paved boat/passenger load/unload area.
4. Hard surface boat launch ramp.
5. Grassy shoreline fishing area.
6. Accessible access to all river edge facilities.

The site development will provide an excavated channel through the wetland area for canoe and kayak access to the Grasse River.

Accessibility Standards

The following Accessibility Standards apply at this location:

- 4.1 Accessible parking space and accessible route.
- 4.2 Wheelchair turning and clear floor space.
- 4.3 Accessible route width.

- 4.5 Accessible route ground surface materials.
- 4.6 Parking and passenger load zone sizes and surface slopes.

- 15.2 Boat launch ramp requirements.

Site Review

The Route 37 Bridge site poses several challenges for providing accessibility for disabled boating and fishing participants. The primary site auto and trailer parking will be located at the upland portion of the site in the lightly vegetated portion of the site. A two way access drive and a pedestrian walkway will connect the parking with the downslope river access facilities. The slope down to the river is far in excess of the maximum accessible slope requirements for ADA access and it would be impractical to provide an accessible ramp down to the river. Instead, the proposed plan includes a dedicated hard surface accessible parking space located adjacent to the river access facilities. This site layout will allow for access to both the boat ramp and surface fishing area for disabled outdoor enthusiasts.

A fishing platform will not be provided at this location. Instead, the existing river access area will be minimally improved and utilized as a shoreline fishing area during normal and low water periods.

An accessible route will be provided to both the river access ramp and the shoreline fishing area on a 60 inch wide, hard surface path. The path should maintain the maximum running and cross slopes for accessible routes including the full route to the fishing platform.

It appears that accessibility requirements can be met at the proposed improved river access site.

Site Accessibility Review

Springs Park

Site Description

The Springs Park site is located on Hatfield Street in the Town of Massena . The site is currently a heavily used city park and has an active river boat launch for small boats. Site access and parking is currently shared with the other park facilities. The site is substantially a flat, grassy site with a slope down to the river.

Site Improvements

The proposed site improvements will enhance the current river access by replacing the existing boat launch ramp, adding hard surface parking for trailers and adding a new boat launch pier. An important part of the site improvements will be to provide for easy accessibility for disabled individuals who enjoy and participate in boating and fishing. The primary site improvements include:

1. Paved boat trailer parking.
2. Hard surface boat launch ramp.
3. Floating Boat pier for use by boats as well as canoes and kayaks.
4. Accessible access to all river edge facilities.

The site currently has a river edge fishing deck which will be connected to the new boat ramp and pier by an accessible walkway.

Accessibility Standards

The following Accessibility Standards apply at this location:

- 4.1 Accessible parking space and accessible route.
 - 4.3 Accessible route width.
 - 4.5 Accessible route ground surface materials.
 - 4.6 Parking sizes and surface slopes.
-
- 15.2 Boat launch ramp and pier requirements.

Site Review

The Springs Park site is currently utilized for recreational river access and has a good river access boat launch ramp. The project scope is intended to upgrade the existing facilities and provide for accessibility for disabled individuals to all of the river edge facilities. The primary auto parking is located adjacent to the river. One ADA accessible parking space will be provided in the current parking area and will be paved with a hard surface.

A boat boarding pier will be provided for small boats, canoes and kayaks. The pier will be fully accessible to disable boaters.

An accessibility route will be provided to both the river access ramp/boarding pier and the existing fishing pier on a 60 inch wide, hard surface path. The path should maintain the maximum running and cross slopes for accessible routes. Access to the boarding pier shall meet the minimum standards for this site element.

It appears that accessibility requirements can be met at the proposed improved river access site.

Site Accessibility Review

Town of Madrid

Site Description

The Town of Madrid site is located off River Road and Rout 345 adjacent to the Upper Grasse River. The site is currently utilized as a river access facility primarily for small boats and includes an asphalt boat ramp. Site access and parking is currently shared with the local water treatment plant. The site is substantially a flat, grassy site with a slope down to the river.

Site Improvements

The proposed site improvements will enhance the current river access by adding hard surface parking as well as improved river edge facilities for launching small boats, canoes/kayaks as well as fishing. An important part of the site improvements will be to provide for easy accessibility for disabled individuals who enjoy and participate in boating and fishing. The primary site improvements include:

1. Paved auto and boat trailer parking.
2. Paved boat/passenger load/unload area.
3. Hard surface boat launch ramp.
4. Wooden river edge Fishing Deck.
5. Accessible access to all river edge facilities.

The site will remain as a river access point for canoes and kayaks and other small motorized and non-motorized boats.

Accessibility Standards

The following Accessibility Standards apply at this location:

- 4.1 Accessible parking space and accessible route.
- 4.2 Wheelchair turning and clear floor space.
- 4.3 Accessible route width.
- 4.5 Accessible route ground surface materials.
- 4.6 Parking and passenger load zone sizes and surface slopes.

- 15.2 Boat launch ramp requirements.
- 15.3 Fishing platform and accessible route requirements.

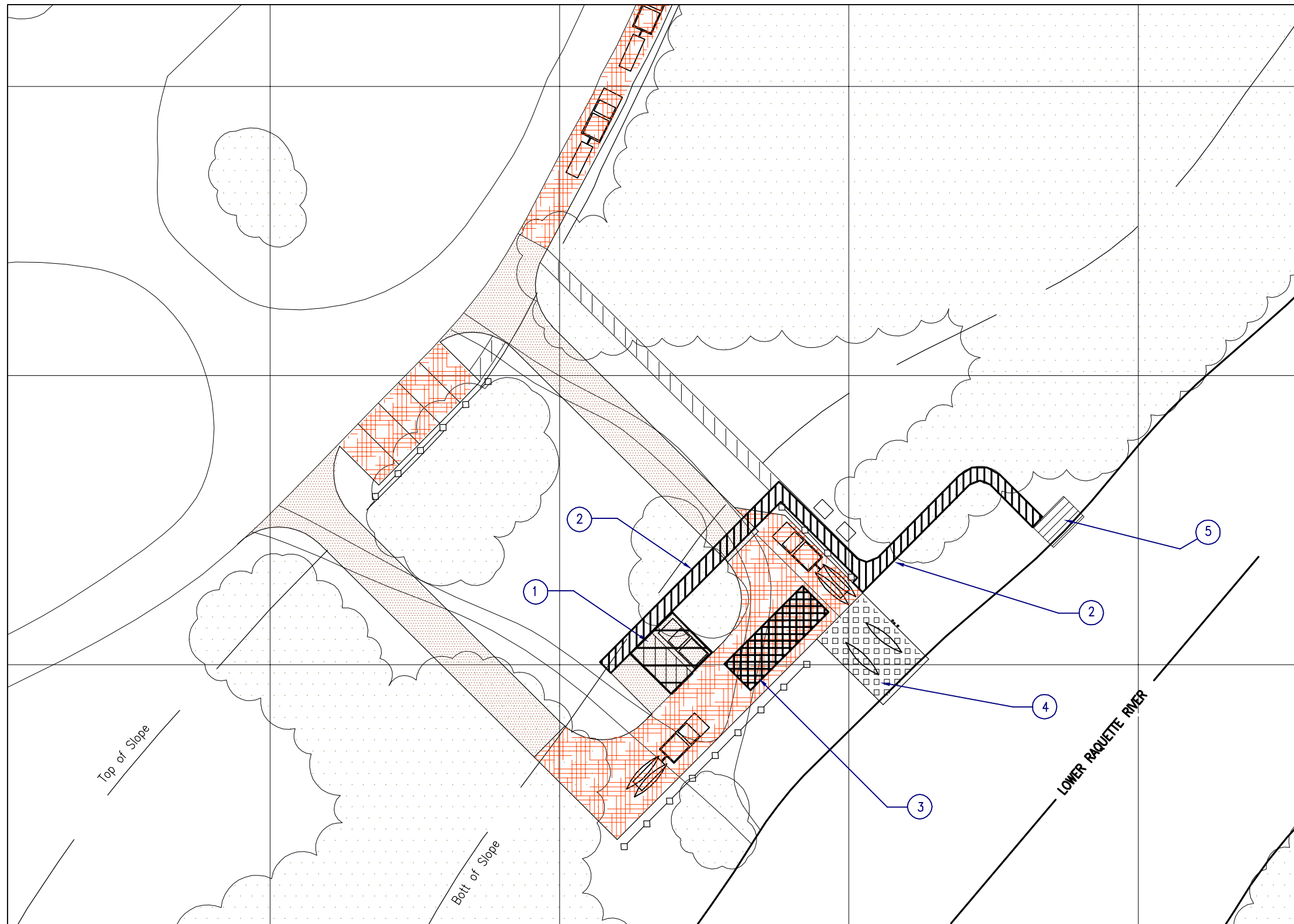
Site Review

The Town of Madrid site is currently utilized for recreational river access and has usable ,but, modest facilities. The project scope is intended to upgrade the existing facilities and provide for accessibility for disabled individuals. The primary auto parking will be located adjacent to the river, upslope from the high water elevation. One ADA accessible parking space will be provided in this lot.

A fishing platform is proposed for this location 50 feet downstream from the river access area. At this stage of the project design, the fishing platform is only located. This platform must be sized to handle wheelchair turning and clear floor space, per ADAAG 4.2, and shall include areas with maximum 34 inch railing height.

An accessible route will be provided to both the river access ramp and the fishing pier on a 60 inch wide, hard surface path. The path should maintain the maximum running and cross slopes for accessible routes including the full route to the boat launch ramp. It appears that the slope from the parking area to the boat launch ramp may not allow for a standard accessible path. A ramp meeting all of the accessibility requirements may be required for this travel path

It appears that accessibility requirements can be met at the proposed improved river access site.

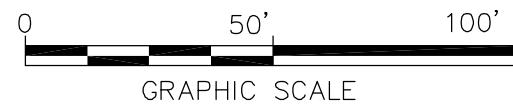


ADA ACCOMODATIONS		
1.	ADA ACCESSIBLE PARKING	
2.	ACCESSIBLE ROUTE	
3.	BOAT/PASSENGER LOAD ZONE	
4.	BOAT LAUNCH RAMP - KAYAKS & CANOES	
5.	FISHING DECK	

PROJECT MATERIALS		
AUTO PARKING	GRAVEL	
ACCESS DRIVE	ASPHALT	
CANOE LAUNCH	ARTICULATED CONCRETE	
WATERFRONT TRAIL	PERMEABLE PAVEMENT	
FISHING DECK	WOOD	
VEHICLE BARRIER	WOOD BOLLARD & ROPE	

LOWER RAQUETTE RIVER

ADA SITE PLAN



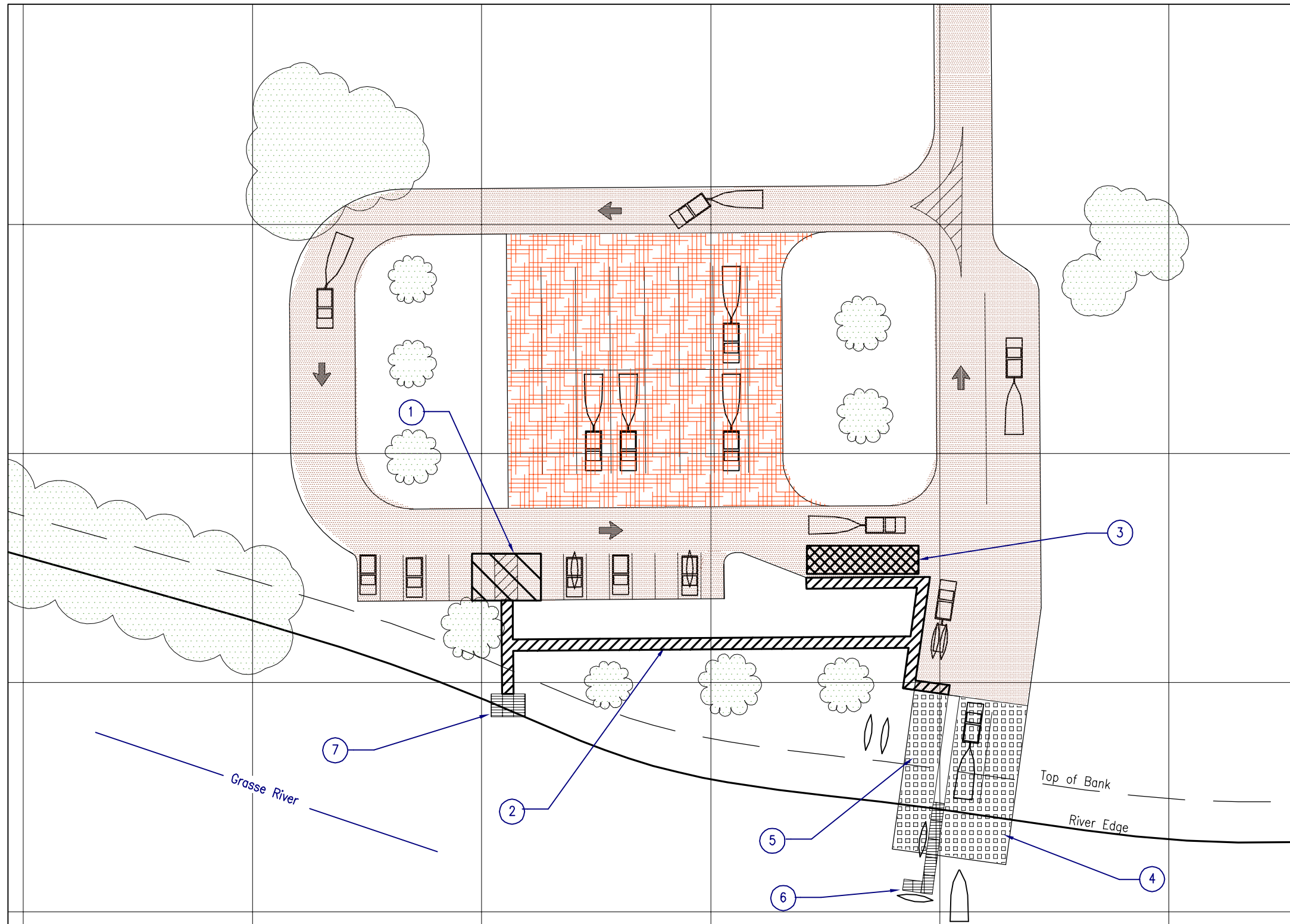
DATE: 12-2-2011

ST LAWRENCE COUNTY, NEW YORK
 NRD RECREATIONAL
 RIVER ACCESS IMPROVEMENTS
 ADA REVIEW SITE PLAN

LOWER RAQUETTE RIVER



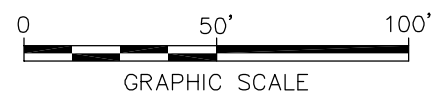
FIGURE
 4-1



ADA ACCOMODATIONS		
1.	ADA ACCESSIBLE PARKING	
2.	ADA ACCESSIBLE ROUTE	
3.	BOAT/PASSENGER LOAD ZONE	
4.	BOAT LAUNCH RAMP - SMALL BOATS	
5.	BOAT LAUNCH RAMP - CANOES/KAYAKS	
6.	ADA ACCESSIBLE FLOATING DOCK	
7.	ADA ACCESSIBLE FISHING DECK	
PROJECT MATERIALS		
ACCESS DRIVES	ASPHALT	
TRAILER PARKING	STONE	
BOAT LAUNCH	ARTICULATING CONCRETE MAT	
SIDEWALKS	PERMEABLE PAVEMENT	
FLOATING DOCK	WOOD or ALUMINUM	

MASSENA CENTER

ADA SITE PLAN



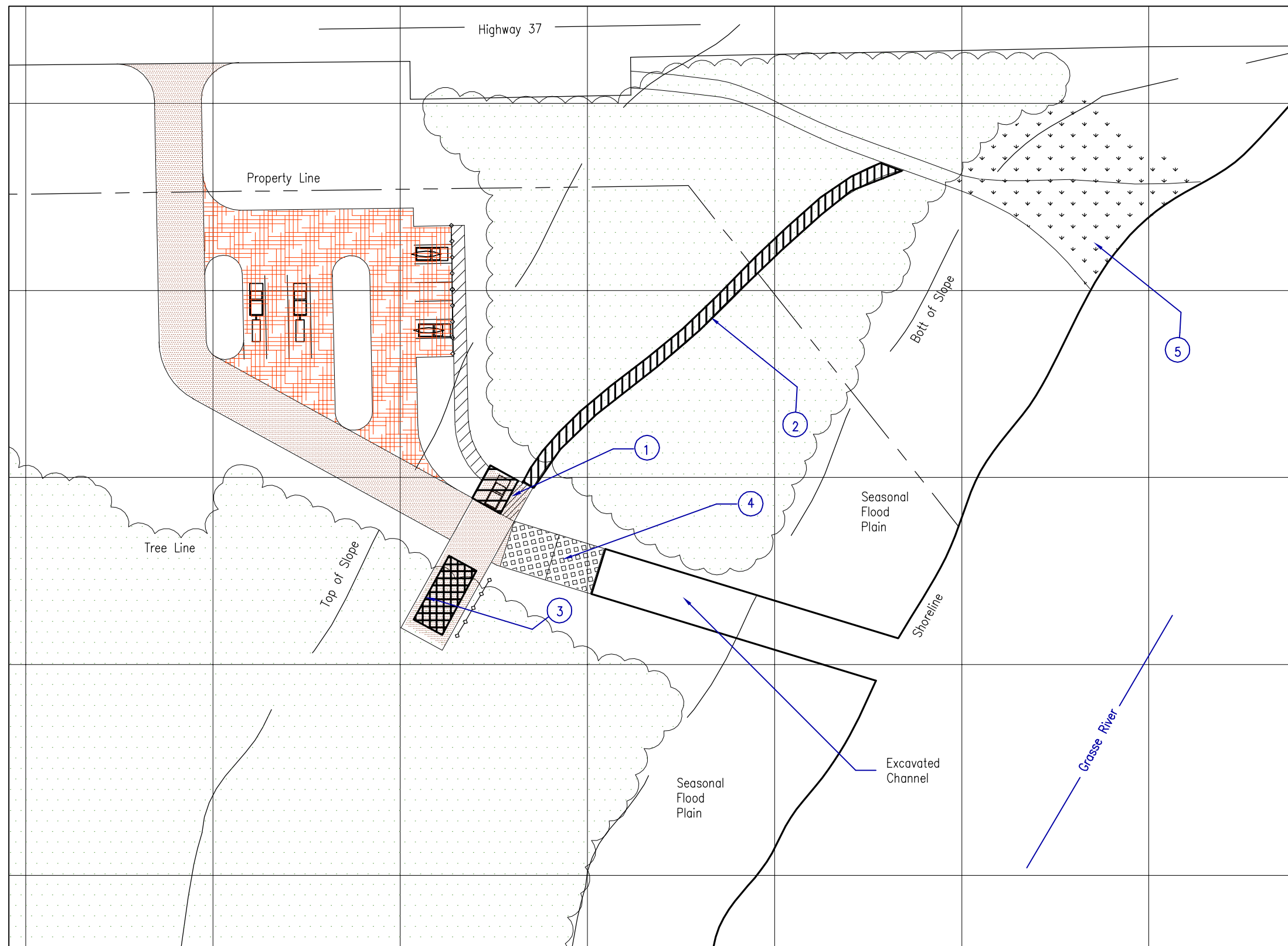
DATE: 12-2-2011

ST. LAWRENCE COUNTY, NEW YORK
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ADA REVIEW SITE PLAN

MASSENA CENTER



FIGURE
4-2

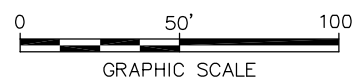


ADA ACCOMODATIONS		
1.	ADA ACCESSIBLE PARKING	
2.	ACCESSIBLE ROUTE	
3.	BOAT/PASSENGER LOAD ZONE	
4.	BOAT LAUNCH RAMP - SMALL BOATS, CANOES, KAYAKS	
5.	GRASSY SHORELINE FISHING AREA	

PROJECT MATERIALS		
ACCESS DRIVE	ASPHALT	
PARKING	STONE	
BOAT LAUNCH	ARTICULATING CONCRETE MAT	
SIDEWALKS	PERMEABLE PAVEMENT	
FISHING AREA	GRASS	
VEHICLE BARRIER	WOOD BOLLARD & ROPE	

ROUTE 37 BRIDGE

ADA SITE PLAN



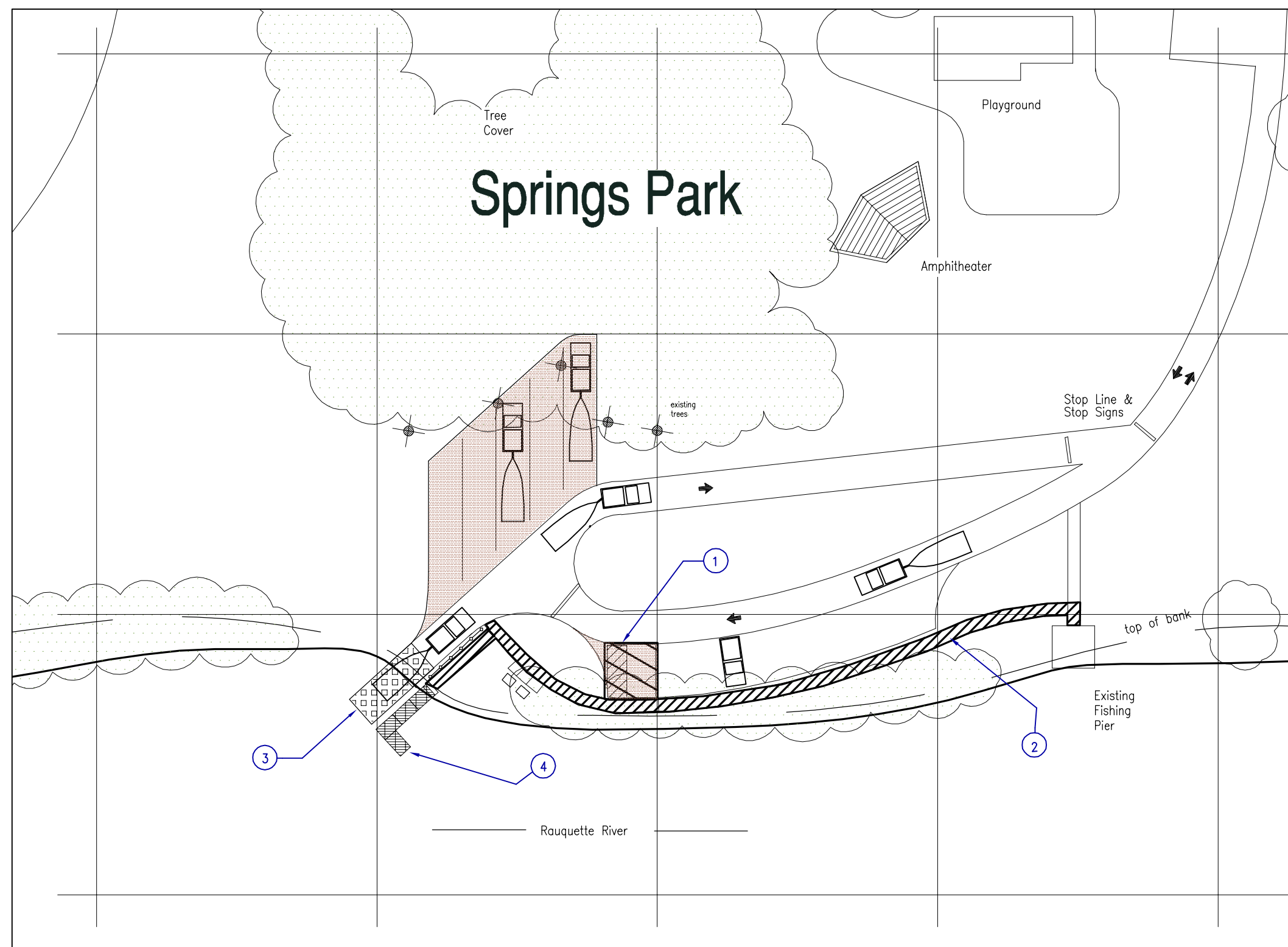
DATE: 12-2-2011

ST. LAWRENCE COUNTY, NEW YORK
NRD RECREATIONAL
RIVER ACCESS IMPROVEMENTS
ADA REVIEW SITE PLAN

ROUTE 37 BRIDGE



FIGURE
4-3

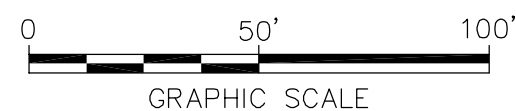


ADA ACCOMODATIONS	
1. ADA ACCESSIBLE PARKING	
2. ADA ACCESSIBLE ROUTE	
3. BOAT LAUNCH RAMP	
4. ADA ACCESSIBLE FLOATING DOCK	

PROJECT MATERIALS		
AUTO PARKING	ASPHALT	
BOAT LAUNCH	ARTICULATING CONCRETE MAT	
SIDEWALKS	PERMEABLE PAVEMENT	

SPRINGS PARK

ADA SITE PLAN



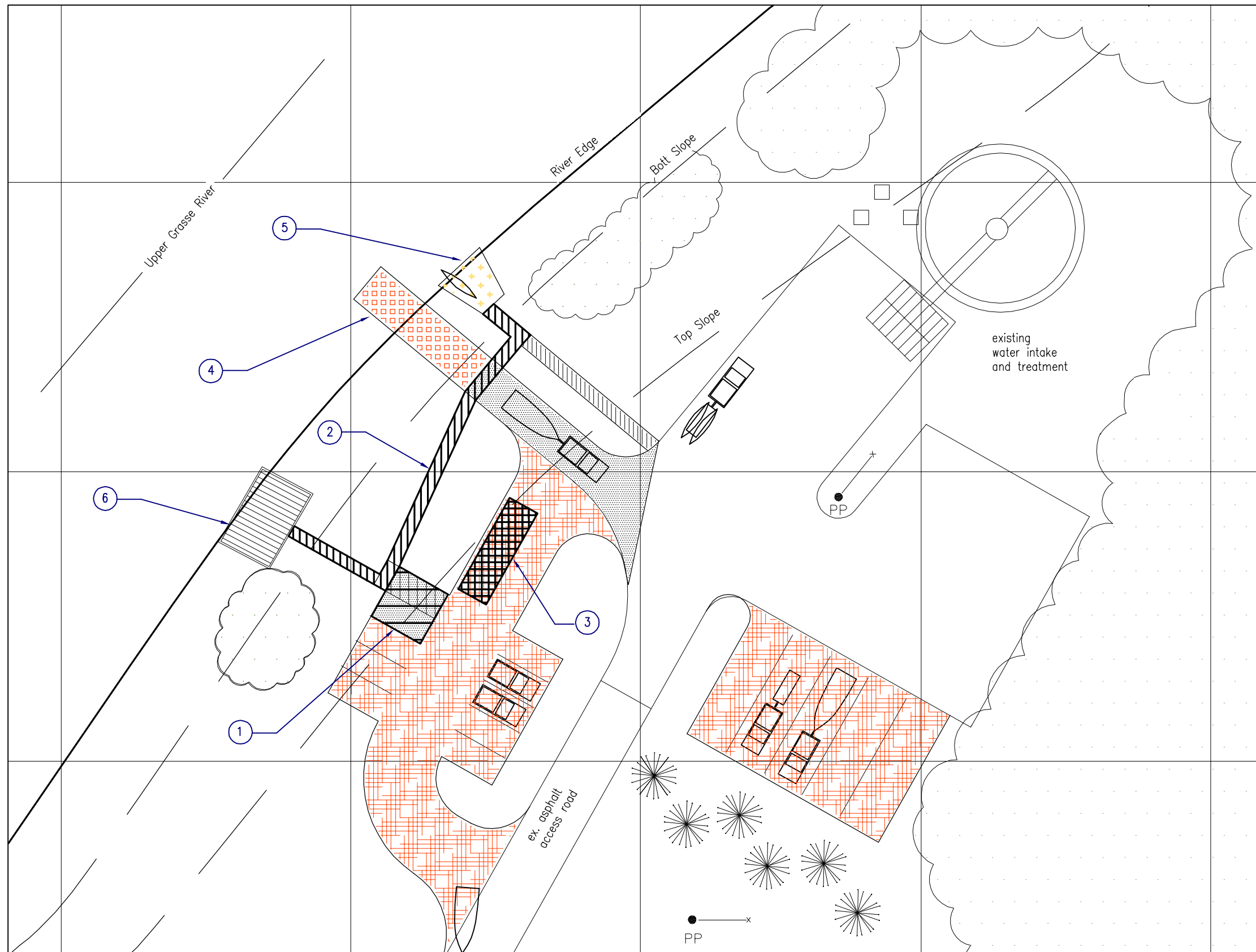
DATE: 12-2-2011

ST. LAWRENCE COUNTY, NEW YORK
NRD RECREATIONAL
RIVER ACCESS IMPROVEMENTS
ADA REVIEW SITE PLAN

SPRINGS PARK



FIGURE
4-4

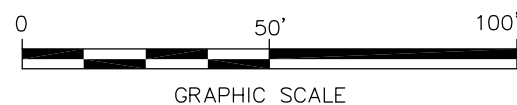


ADA ACCOMODATIONS		
1.	ADA ACCESSIBLE PARKING	
2.	ADA ACCESSIBLE ROUTE	
3.	BOAT/PASSENGER LOAD ZONE	
4.	BOAT LAUNCH RAMP - SMALL BOATS	
5.	BOAT LAUNCH RAMP - CANOE/KAYAK	
6.	ADA ACCESSIBLE FISHING DECK	

PROJECT MATERIALS		
ACCESS DRIVE	ASPHALT	
AUTO PARKING	GRAVEL	
BOAT LAUNCH	ARTICULATING CONCRETE MAT	
CANOE LAUNCH	SAND	
WALKS & TRAILS	PERMEABLE PAVEMENT	
FISHING PIER	WOOD	

MADRID

ADA SITE PLAN



DATE: 12-1-2011

ST. LAWRENCE COUNTY, NEW YORK
NRD RECREATIONAL
RIVER ACCESS IMPROVEMENTS
ADA REVIEW SITE PLAN

MADRID



FIGURE
4-5

ATTACHMENT 5

Required Permits Review

St. Lawrence County, New York

NRD Recreational River Access Improvements

Permit Requirements

12/2/2011

Permit/Approval	Approval Agency	Discussion
1. Site Plan Approval	Town of Massena	Public Hearing
2. Building	Town of Massena	General Building Permit
3. Construction Stormwater Discharge	NY DEC Region 6	- Construction disturbance of one acre or more. - Required for Massena Center & Rt. 37 Bridge
4. Notice of Intent	NY EPA	45 days before constr. Start All sites.
5. Storm Water Management	NY DEC	Required for all sites.
6. Wetlands Section 404 Section 401	USACE USACE	Nationwide Permit 36 * Nationwide Permit 36 *
7. Other Excav of Navigable Waters Open Water of NY Coastal Consistency	NY DEC NY General Services NY Department of State	Minor Permit Sites with boat docks only. Grasse River sites only

* May fall under Regional Permit 87-000-1