STATE OF ALASKA - DEPARTMENT OF NATURAL RESOURCES

DRIFT BOAT RETRIEVAL SYSTEM

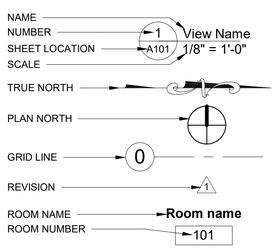
KASILOF, ALASKA

Design Alaska
Architects · Engineers · Surveyors
601 College Road Fairbanks AK 99701
907.452.1241 AECC511 designalaska.com

Change Order No. 2 - Attachment A
Old Kasilof Landing SRS Site Development
Project No. 73032-1
Page 1 of 9

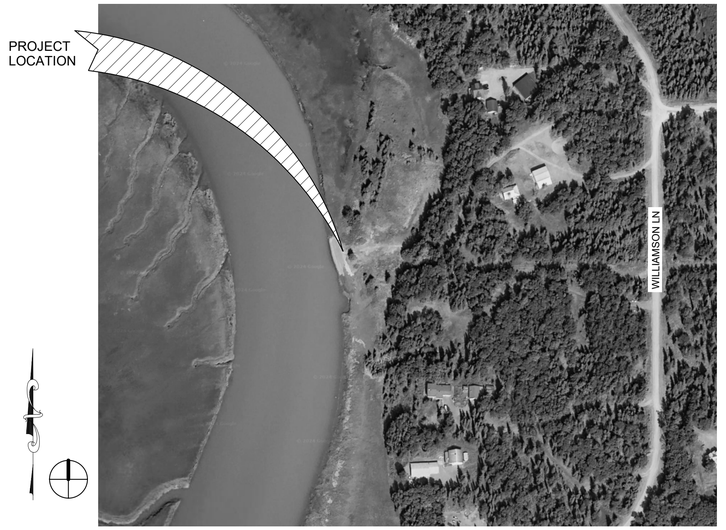
GENERAL SYMBOLS

SEE DISCIPLINES FOR SPECIFIC SYMBOLS



ALASKA MAP

VICINITY MAP



PROJECT TEAM

OWNERS REPRESENTATIVE
STATE OF ALASKA DNR
POINT OF CONTACT: RANGELL SORIANO
ATWOOD BUILDING SUITE 1340
550 WEST 7TH AVE
ANCHORAGE, AK 99501
907 269-8937
rangell.soriano@alaska.gov

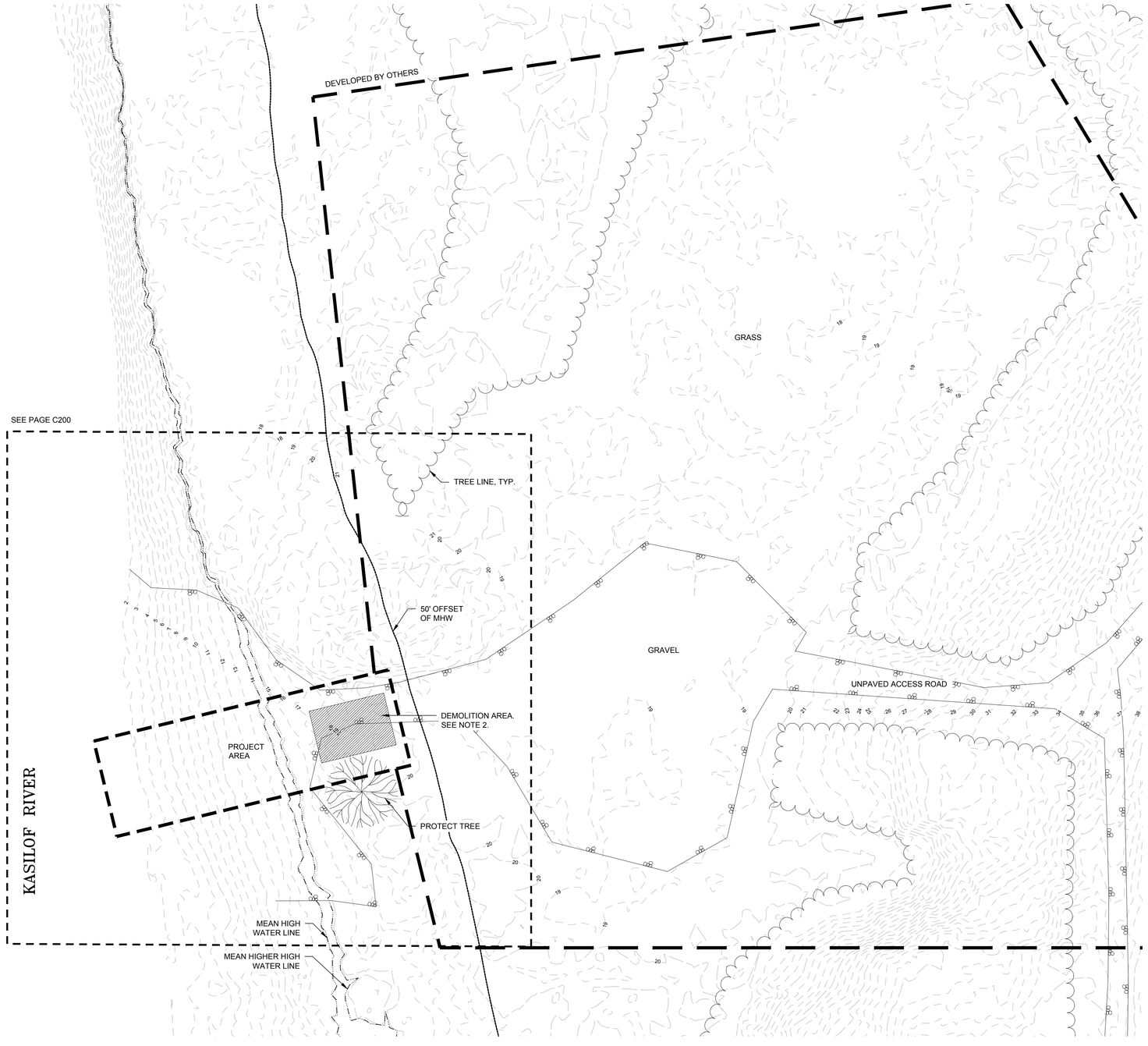
DESIGNERS REPRESENTATIVE
DESIGN ALASKA
POINT OF CONTACT: JOHN ROWE
601 COLLEGE ROAD
FAIRBANKS, AK 99701
907 452-1241
johnr@designalaska.com

DRIFT BOAT
RETRIEVAL
SYSTEM

ISSUE DATE	06 FEB 2025
COMM. NUMBER	862303
DESIGNED BY	-
DRAWN BY	-
SCALE	0" 1"

GENERAL
INFORMATION

G010



1 C100 EXISTING CONDITIONS
1" = 20'

LEGEND

- EXISTING CONTOURS
- DEMOLITION
- EDGE OF ASPHALT PAVEMENT
- GRAVEL
- TREE LINE
- TREE

GENERAL NOTES

1. SITE SURVEY DATA BASED ON DNR SURVEY PERFORMED OCTOBER 2019. COORDINATE SYSTEM IS ALASKA STATE PLANE ZONE 4, NAD83, IN US SURVEY FEET. VERTICAL DATUM IS NAVD88, GEOID 12B. BASIS OF VERTICAL CONTROL IS MONUMENT "MAUD ROAD 1", HAVING A HEIGHT OF 214.54'.
2. PROTECT BANK FROM DAMAGE. NO CONSTRUCTION DEBRIS OR GARBAGE SHALL BE PERMITTED IN WATERWAY. NO EARTH MOVING MAY BE DONE BELOW HIGH WATER LINE.
3. MEAN HIGH WATER (MHW) IS DEFINED AS THE AVERAGE HIGH WATER LINE OVER A 19-YEAR PERIOD. MEAN HIGHER HIGH WATER (MHHW) IS DEFINED AS THE AVERAGE HIGH WATER LINE INFLUENCED BY ONLY THE HIGHER OF THE TWO DAILY TIDES OVER A 19-YEAR PERIOD.

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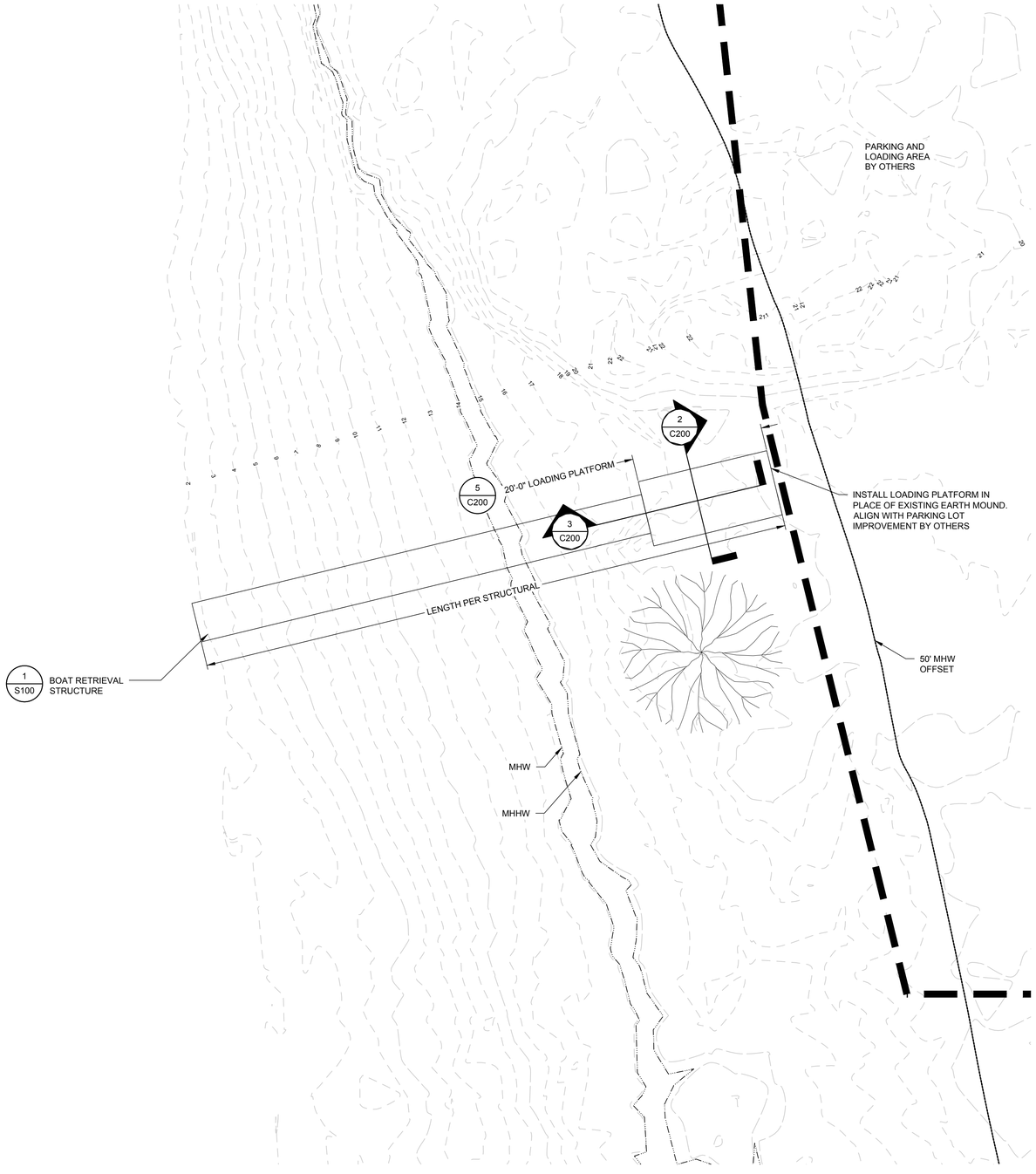
STATE OF ALASKA 49TH
John R. Rowe
06-Feb-2025
No. LA10152
REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT

DRIFT BOAT RETRIEVAL SYSTEM

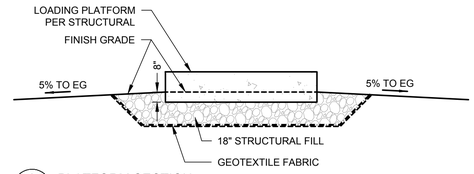
ISSUE DATE	06 FEB 2025
COMM. NUMBER	862303
DESIGNED BY	JRR
DRAWN BY	CBP
SCALE	0" 1"

EXISTING CONDITIONS

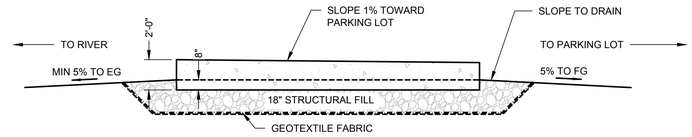
C100



1 C200 SITE PLAN
1" = 20'



2 C200 PLATFORM SECTION
1" = 5'



NOTE: BOAT RETRIEVAL STRUCTURE
NOT SHOWN FOR CLARITY.

3 C200 LOADING PLATFORM SECTION
1" = 5'

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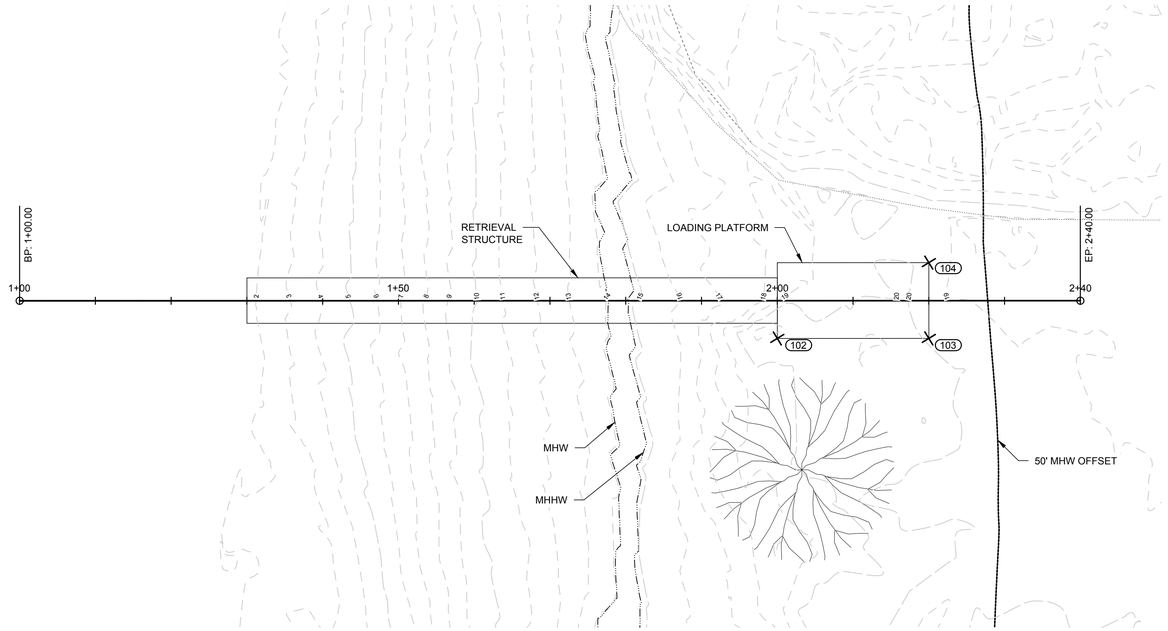
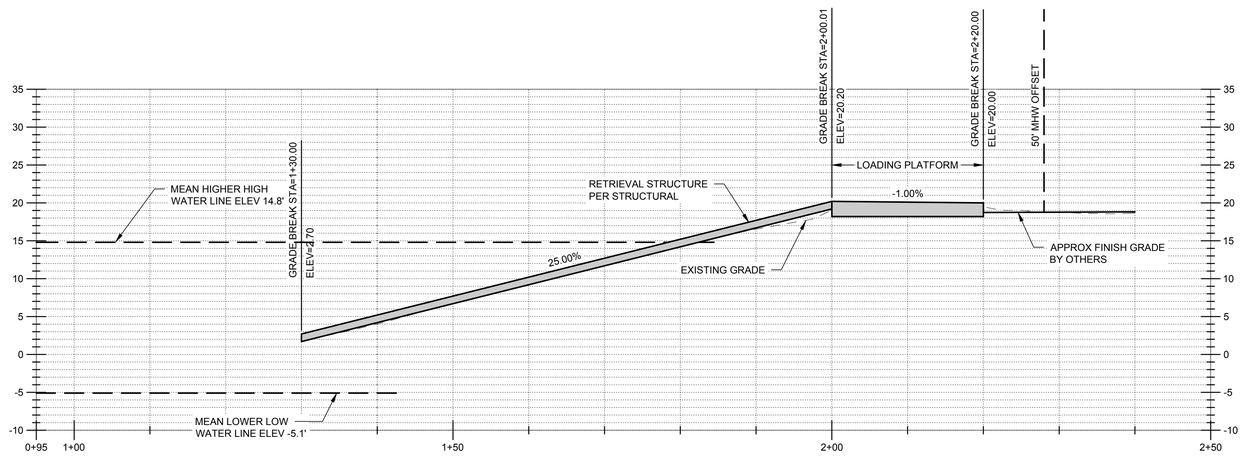
SITE PLAN

C200



1 C500 BOAT RETRIEVAL STRUCTURE PLAN
1" = 10'

POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
102	2324940.10	1408554.44	20.20	TOC
103	2324944.80	1408573.87	20.00	TOC
104	2324954.52	1408571.52	20.00	TOC



2 C500 BOAT RETRIEVAL STRUCTURE PROFILE
1" = 10'

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BOAT RETRIEVAL STRUCTURE PROFILE

C500

GENERAL STRUCTURAL NOTES

A. DESIGN CRITERIA

1. BUILDING CODE..... 2021 IBC (INTERNATIONAL BUILDING CODE)
   GOVERNING JURISDICTION..... STATE OF ALASKA
2. LIVE LOADS
   FULLY LOADED DRIFT BOAT ..... 800 LBS

B. CONCRETE

1. GENERAL:
   A. ALL CAST-IN-PLACE CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH (f'c) OF 4,500 PSI.
   B. CONCRETE SHALL MEET ALL REQUIREMENTS OF ACI 301 SPECIFICATION FOR STRUCTURAL CONCRETE BUILDINGS.
   C. ALL PERMANENTLY EXPOSED CONCRETE EDGES TO BE CHAMFERED 3/4", UNO
   D. PROVIDE SLEEVES FOR ALL UTILITY OPENINGS.
   E. DIMENSIONS SHOWN ON DRAWING SHALL SUPERCEDE THOSE SHOWN ON GENERAL NOTES.
2. REINFORCING:
   A. REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60.
   B. DETAIL REINFORCING BARS IN ACCORDANCE WITH THE ACI DETAILING MANUAL AND THE ACI BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, LATEST EDITION.
   C. HORIZONTAL FOUNDATION AND WALL REINFORCING SHALL BE CONTINUOUS AROUND CORNERS AND INTERSECTIONS; PROVIDE CORNER BARS.
   D. PROVIDE ALL ACCESSORIES NECESSARY TO SUPPORT REINFORCING AT POSITIONS SHOWN ON THE DRAWINGS. PROVIDE SUFFICIENT TIE BARS TO SUPPORT ALL REINFORCING.
   E. DO NOT CUT ANY REINFORCEMENT AT OPENINGS.
   F. UNLESS A REINFORCING SPLICE, CLEAR DISTANCE BETWEEN REINFORCING SHALL NOT BE LESS THAN 1.5 BAR DIAMETERS NOR LESS THAN 1 1/2".
   G. MINIMUM LAP SPLICE LENGTHS FOR CONCRETE REINFORCING BARS SHALL BE AS FOLLOWS:
      a. SPLICES WITH 12" OR MORE OF FRESH CONCRETE PLACED BENEATH: 80 BAR DIAMETERS
      b. ALL OTHER SPLICES: 62 BAR DIAMETERS
   H. PROVIDE REINFORCEMENT COVER AS FOLLOWS (ACI 7.7), UNLESS NOTED OTHERWISE ON DRAWINGS:

a. CONCRETE POURED AGAINST EARTH	3"	±3/8"
b. CONCRETE EXPOSED TO EARTH OR WEATHER:		
• NO. 6 OR LARGER	2"	±3/8"
• NO. 5 OR SMALLER	1 1/2"	±3/8"
• CONCRETE NOT EXPOSED TO EARTH OR WEATHER:	3/4"	±3/8"

C. POST-INSTALLED ANCHORS

POST-INSTALLED ANCHORS SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:
SCREW ANCHORS: SIMPSON TITEN HD, 316 STAINLESS

1. INSTALL POST-INSTALLED ANCHORS ONLY AS INDICATED ON THE DRAWINGS OR WITH SPECIFIC WRITTEN APPROVAL OF THE ENGINEER PRIOR TO INSTALLATION.
2. THE CONTRACTOR MAY NOT USE SUBSTITUTES FOR THE POST-INSTALLED ANCHORS WITHOUT PRIOR APPROVAL OF THE ENGINEER.
3. SEE DRAWINGS FOR ANCHOR TYPE, SIZE, AND EMBEDMENT DEPTHS. INSTALL ANCHORS AS OUTLINED IN MANUFACTURER'S SPECIFICATIONS AND ICC REPORTS. UTILIZE PROPER DRILL TYPE, BIT SIZE, AND HOLE CLEANING, DRIVING OR TIGHTENING TECHNIQUES, UNLESS NOTED OTHERWISE.

D. STRUCTURAL STEEL

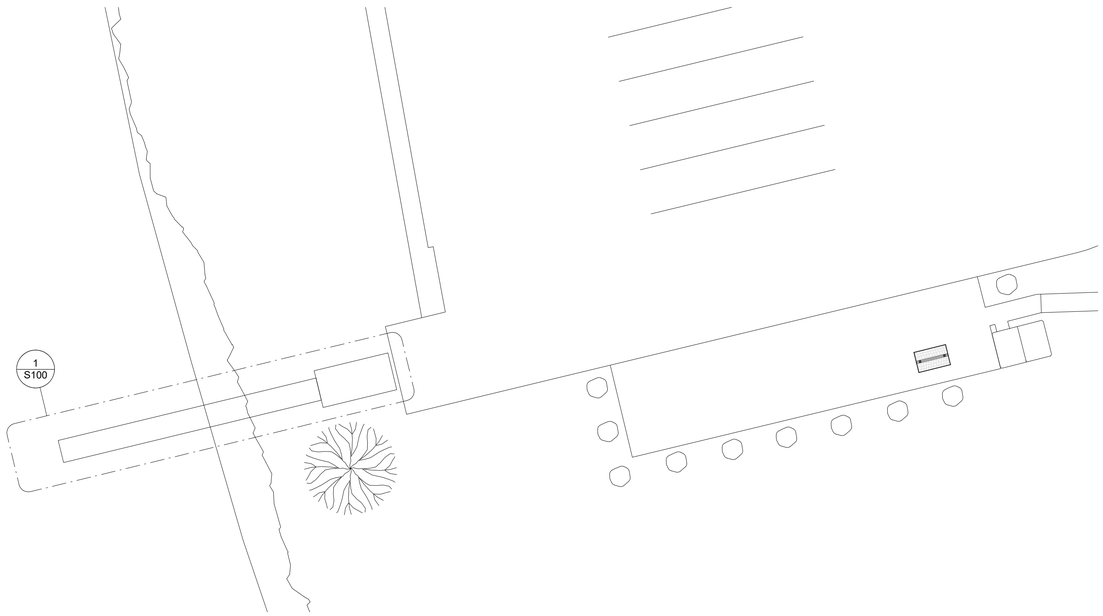
1. ALL STRUCTURAL STEEL WIDE FLANGE MEMBERS SHALL BE ASTM A572 - GRADE 50 (Fy = 50 KSI) OR A992 (Fy = 50 KSI).
2. SQUARE/RECTANGULAR HOLLOW STRUCTURAL SECTIONS (HSS) SHALL CONFORM TO ASTM A500 GRADE C (Fy = 50 KSI).
3. PLATES SHALL BE ASTM A36 (Fy = 36 KSI).
4. ALL STRUCTURAL STEEL SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH THE LATEST EDITION OF THE AISC STEEL CONSTRUCTION MANUAL.
5. STAINLESS STEEL COMPONENTS SHALL BE ASTM 316.
6. BOLTED CONNECTIONS SHALL BE ACCOMPLISHED WITH TENSION-CONTROLLED HIGH-STRENGTH BOLTS CONFORMING TO ASTM F3125 GRADE F1852 (A325-TC) IN STANDARD HOLES UNLESS NOTED OTHERWISE.
7. ALL BOLTED CONNECTIONS SHALL BE PRE-TENSIONED UNLESS NOTED OTHERWISE.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF ALL ERECTION PROCEDURES AND SEQUENCES WITH REGARD TO TEMPERATURE DIFFERENTIALS.
9. WELDING SHALL BE PERFORMED WITH E70XX ELECTRODES. WELDING SHALL BE DONE BY QUALIFIED WELDERS AND SHALL CONFORM TO THE AWS D1.1 STRUCTURAL WELDING CODE-STEEL, LATEST EDITION. ALL WELDS ARE INTENDED TO BE CONTINUOUS UNLESS NOTED OTHERWISE.
10. CARBON STEEL COMPONENTS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.

E. STRUCTURAL ALUMINUM

1. ALL STRUCTURAL ALUMINUM SHAPES AND PLATES SHALL BE ALLOY AND TEMPER 6061-T6 AND SHALL CONFORM WITH ASTM B308.
2. ALL STRUCTURAL ALUMINUM SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH THE LATEST EDITION OF THE ALUMINUM ASSOCIATION ALUMINUM DESIGN MANUAL.
3. BOLTED CONNECTIONS SHALL BE ACCOMPLISHED WITH 304 STAINLESS STEEL BOLTS CONFORMING TO ASTM F593, IN STANDARD HOLES UNLESS NOTED OTHERWISE. USE MARINE-GRADE ANTI-SEIZING LUBRICANT INSTALL BOLTS USING ONLY HAND TOOLS TO AVOID GALLING THREADS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF ALL ERECTION PROCEDURES AND SEQUENCES WITH REGARD TO TEMPERATURE DIFFERENTIALS.
5. WELDING SHALL BE PERFORMED BY QUALIFIED WELDERS AND SHALL CONFORM TO THE AWS D1.2 STRUCTURAL WELDING CODE-ALUMINUM, LATEST EDITION. ALL WELDS ARE INTENDED TO BE CONTINUOUS UNLESS NOTED OTHERWISE.
6. FIELD WELDS NOTED THROUGHOUT THE CONTRACT DOCUMENTS ARE ACCEPTABLE LOCATIONS FOR FIELD WELDING AT THE CONTRACTOR'S OPTION. FIELD WELDS MAY BE PERFORMED IN THE SHOP.

F. GENERAL

1. THE STRUCTURAL CONSTRUCTION DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OR SEQUENCE OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO: BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. THE STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S MEANS, METHODS, TECHNIQUES, SEQUENCES FOR PROCEDURE OF CONSTRUCTION, OR THE SAFETY PRECAUTIONS AND THE PROGRAMS INCIDENT THERETO (NOR SHALL OBSERVATION VISITS TO THE SITE INCLUDE INSPECTION OF THESE ITEMS).
2. STRUCTURAL DRAWINGS ARE A PORTION OF THE CONTRACT DOCUMENTS AND ARE INTENDED TO BE USED WITH ARCHITECTURAL, CIVIL, MECHANICAL, AND ELECTRICAL DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE REQUIREMENTS FROM THESE DISCIPLINES INTO THEIR SHOP DRAWINGS AND WORK.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND IMPLEMENTATION OF ALL SCAFFOLDING, BRACING AND SHORING.
4. DO NOT USE SCALED DIMENSIONS TAKEN FROM STRUCTURAL DRAWINGS. CONTACT STRUCTURAL ENGINEER IF DIMENSIONAL INFORMATION IS MISSING.
5. ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF ALASKA.



1 / S001 SITE PLAN
1" = 20'-0"

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STATE OF ALASKA
49TH
Peter A. Jacobsen
06-FEB-2025
No. SE14544
REGISTERED STRUCTURAL ENGINEER

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Project No. 73032-1
Page 5 of 9

DRIFT BOAT RETRIEVAL SYSTEM

ISSUE DATE	06 FEB 2025
COMM. NUMBER	862303
DESIGNED BY	TAA
DRAWN BY	TAA
SCALE	0" 1"

GENERAL STRUCTURAL NOTES

S001

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SPECIAL INSPECTIONS

THE FOLLOWING STRUCTURAL ITEMS REQUIRE SPECIAL INSPECTION PER IBC SECTIONS 1704-1707.
SEE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR INSPECTION AND TESTING THAT ARE NOT PART OF SPECIAL INSPECTIONS.

CONTINUOUS: SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS PRESENT WHEN AND WHERE THE WORK TO BE INSPECTED IS BEING PERFORMED.

PERIODIC: SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS INTERMITTENTLY PRESENT WHERE THE WORK TO BE INSPECTED HAS BEEN OR IS BEING PERFORMED.

SYSTEM or MATERIAL	INSPECTION				REMARKS
	IBC CODE REFERENCE	CODE or STANDARD REFERENCE	FREQUENCY		
			CONTINUOUS	PERIODIC	
DIVISION #03 - CONCRETE					
CONCRETE					
INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE, MECHANICAL ANCHORS LARGER THAN 3/8"Ø	TABLE 1705.3	ACI 318-19: 26.7, 6.13.3.2(h), 26.13.3.2(i)		X	SPECIAL INSPECTIONS APPLY TO ANCHOR PRODUCT NAME, TYPE, AND DIMENSIONS, HOLE DIMENSIONS, COMPLIANCE WITH DRILL BIT REQUIREMENTS, CLEANLINESS OF THE HOLE AND ANCHOR, ADHESIVE EXPIRATION DATE, ANCHOR/ADHESIVE INSTALLATION, ANCHOR EMBEDMENT, AND TIGHTENING TORQUE. INSPECTION FREQUENCY PER MANUFACTURER'S REQUIREMENTS BUT NOT LESS THAN 10% OF EACH ANCHOR, DOWEL, OR ADHESIVE TYPE
DIVISION #05 - STRUCTURAL STEEL					
FABRICATORS					
FABRICATORS	1704.2.5 1704.2.5.1	AISC 360-16: N6		X	SPECIAL INSPECTION IS REQUIRED FOR STRUCTURAL LOAD-BEARING MEMBERS AND ASSEMBLIES FABRICATED ON THE PREMISES OF A FABRICATOR'S SHOP NOTE: SPECIAL INSPECTION IS NOT REQUIRED WHERE THE WORK IS DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION
PRIOR TO BOLTING/WELDING					
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	1705.2.1	AISC 360-16: TABLE N5.6-1	X		
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS		AISC 306-16: TABLE N5.6-1 RCSC SPECIFICATION FOR STRUCTURAL JOINTS FIGURE C-2.1		X	
CORRECT BOLTING PROCEDURE AND FASTENERS SELECTED FOR JOINT DETAIL		AISC 360-16: TABLE N5.6-1		X	GRADE, TYPE, BOLT LENGTH, IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS		AISC 360-16: TABLE N5.6-1		X	
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED		AISC 360-16: TABLE N5.6-1		X	
PROTECTED STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENER COMPONENTS		AISC 360-16: TABLE N5.6-1		X	
WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS		AISC 360-16: TABLE N5.4-1		X	
WPS AVAILABLE		AISC 360-16: TABLE N5.4-1	X		
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE		AISC 360-16: TABLE N5.4-1		X	
MATERIAL IDENTIFICATION		AISC 360-16: TABLE N5.4-1		X	TYPE/GRADE
WELDER IDENTIFICATION SYSTEM		AISC 360-16: TABLE N5.4-1		X	THE FABRICATOR OR ERECTOR SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED
FIT-UP OF FILLET AND GROOVE WELDS		AISC 360-16: TABLE N5.4-1		X	JOINT PREPARATIONS, DIMENSIONS, CLEANLINESS, TACKING, BACKING TYPE AND FIT

SPECIAL INSPECTIONS, CONTINUED

SYSTEM OR MATERIAL	INSPECTION				REMARKS
	IBC CODE REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY		
			CONTINUOUS	PERIODIC	
DIVISION #05 - STRUCTURAL STEEL, CONTINUED					
DURING BOLTING/WELDING					
FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS AND NUTS ARE POSITIONED AS REQUIRED AND FASTENER COMPONENT NOT TURNED BY THE WRENCH THAT IS PREVENTING ROTATION	1705.2.1	AISC 360-16: TABLE N5.6-2		X	
JOINT BROUGHT TO SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION		RCSC SPECIFICATION FOR STRUCTURAL JOINTS BOLTS SECTION 9 AISC 306-16: TABLE N5.6-2 AISC 360: SECT. N5.6a		X	ALL CONNECTIONS INSPECTED AND VERIFIED SNUG
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES		AISC 360-16: TABLE N5.6-2		X	
CONTROL AND HANDLING OF WELDING CONSUMABLES		AISC 360-16: TABLE N5.4-2		X	ITEMS INCLUDE: PACKAGING AND EXPOSURE CONTROL
NO WELDING OVER CRACKED TACK WELDS		AISC 360-16: TABLE N5.4-2		X	
WPS FOLLOWED PLAN FOR ENVIRONMENTAL CONDITIONS		AISC 360-16: TABLE N5.4-2		X	WIND SPEED WITHIN LIMITS, PRECIPITATION AND TEMPERATURE
AFTER BOLTING/WELDING					
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS OR WELDED JOINT OR MEMBER	1705.2.1	AISC 360-16: TABLE N5.6-3, TABLE N5.4-3	X		
WELDS CLEANED		AISC 360-16: TABLE N5.4-3		X	
SIZE, LENGTH, AND LOCATION OF WELDS		AISC 360-16: TABLE N5.4-3	X		
WELDS MEET VISUAL ACCEPTANCE CRITERIA		AISC 360-16: N5.4, TABLE N5.4-3	X		
DIVISION #05 - OTHER METALS					
ALUMINUM					
SINGLE PASS FILLET WELDS				X	

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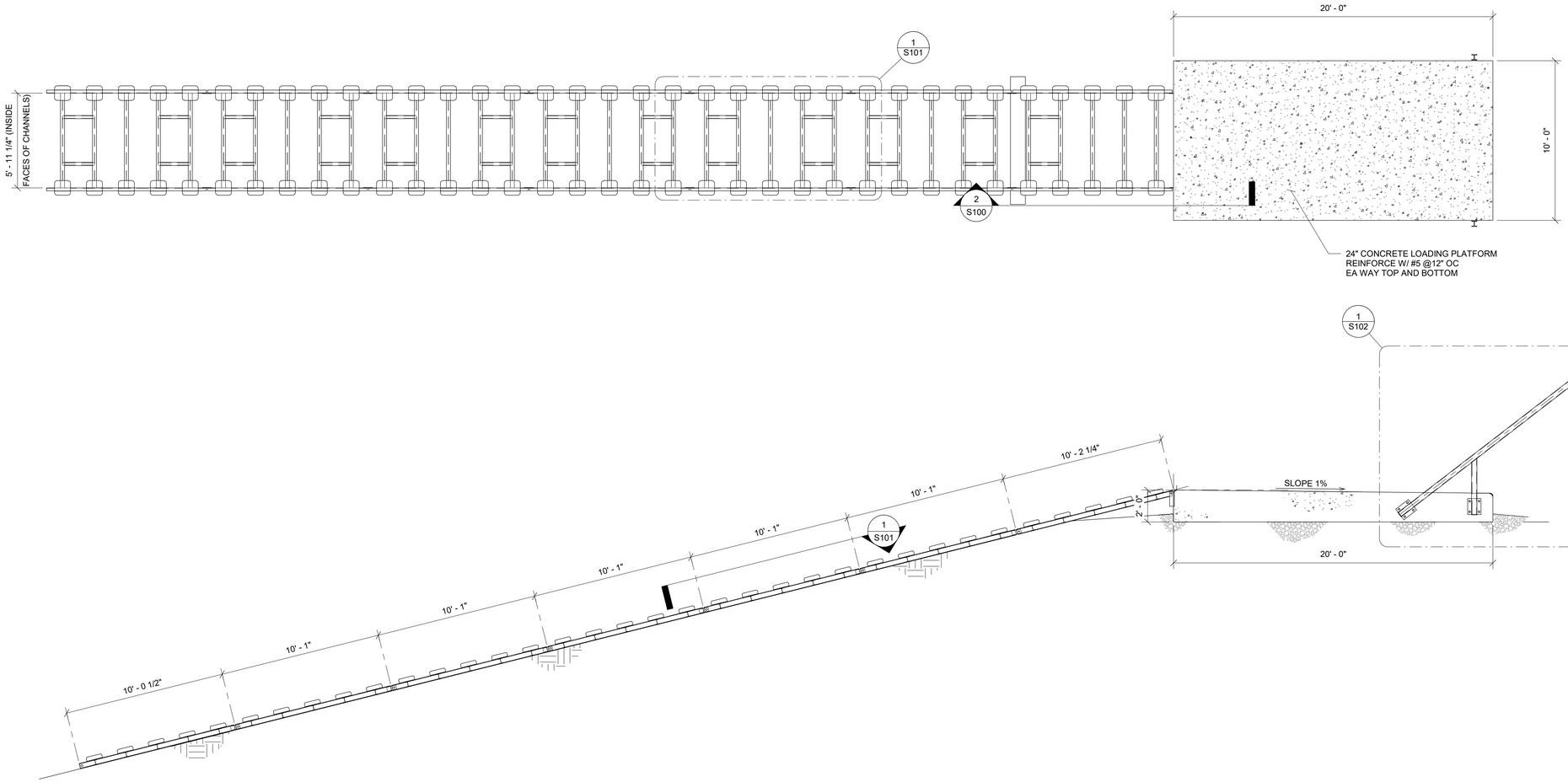
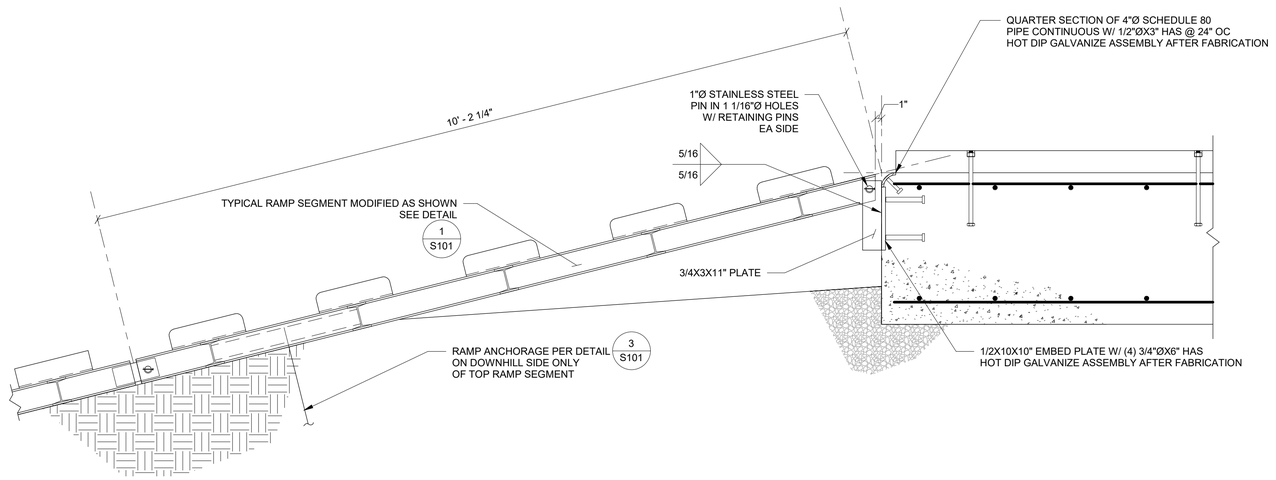
DRAWN BY	TAA
SCALE	0" 1"

SPECIAL INSPECTIONS

S002



1 S100 BOAT RETRIEVAL STRUCTURE PLAN AND ELEVATION
1/4" = 1'-0"



2 S100 TOP OF BOAT RETRIEVAL STRUCTURE DETAIL
1" = 1'-0"

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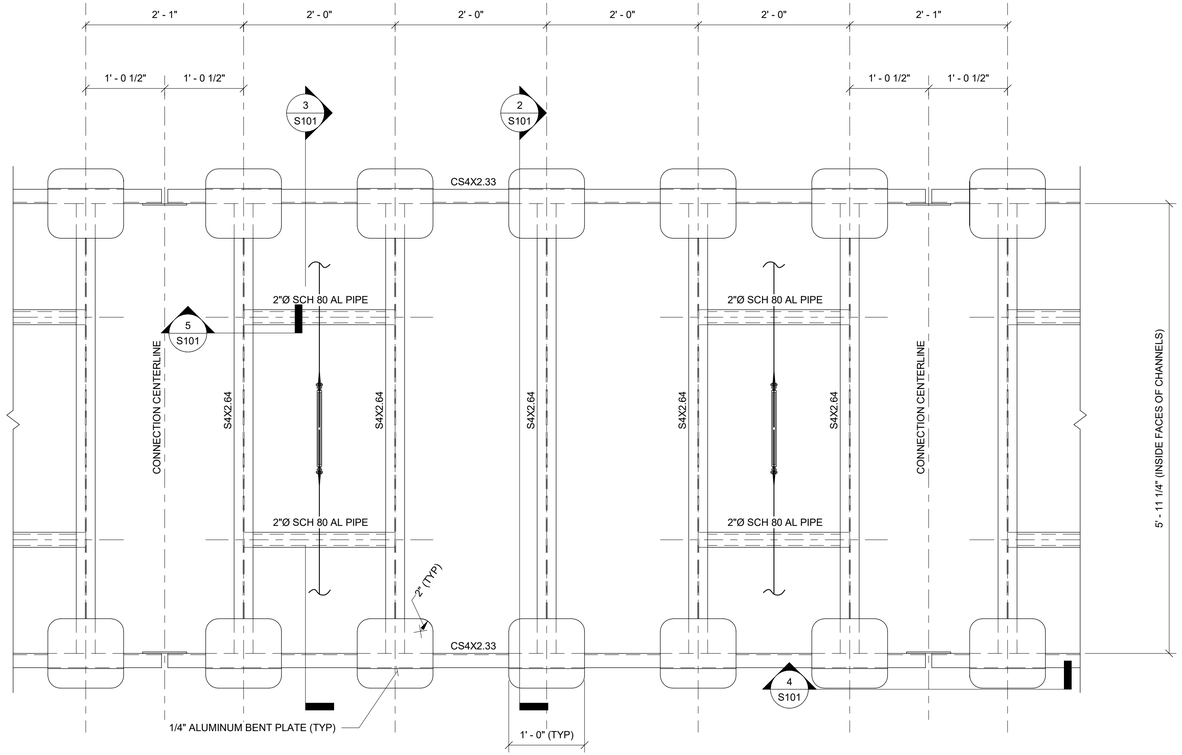
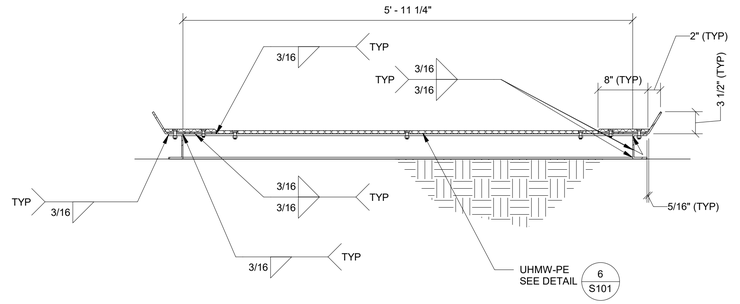
BOAT RETRIEVAL STRUCTURE PLAN AND DETAILS

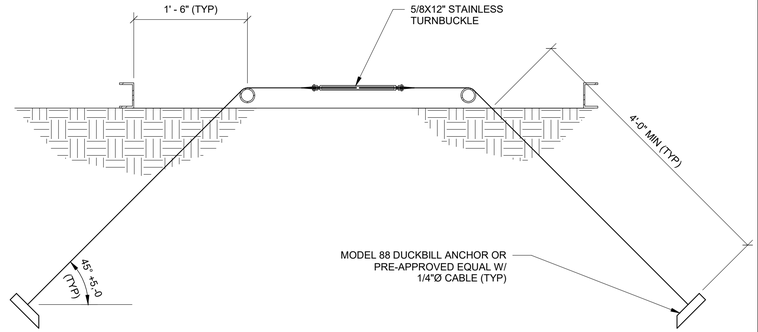
S100



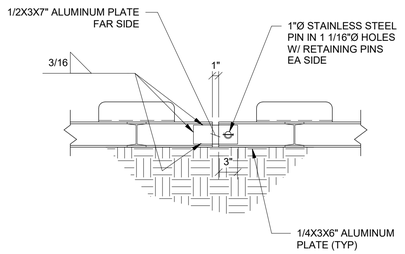
1 S101 TYPICAL ALUMINUM BOAT RETRIEVAL STRUCTURE SEGMENT PLAN
1" = 1'-0"



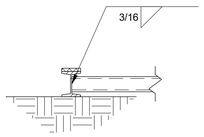
2 S101 TYPICAL RAMP SECTION
1" = 1'-0"



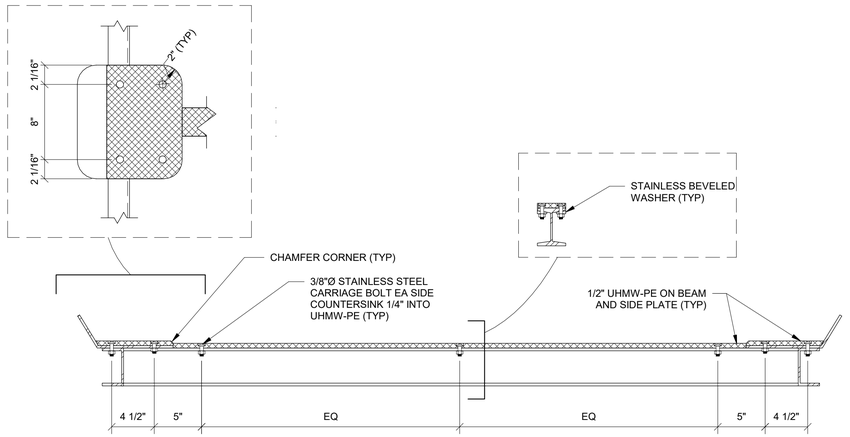
3 S101 BOAT RETRIEVAL STRUCTURE ANCHORAGE DETAIL
1" = 1'-0"



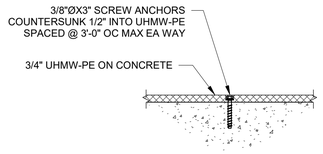
4 S101 BOAT RETRIEVAL STRUCTURE JOINT DETAIL
1" = 1'-0"



5 S101 PIPE TO BEAM CONNECTION
1" = 1'-0"



UHMW-PE ON ALUMINUM BOAT RETRIEVAL STRUCTURE



UHMW-PE ON CONCRETE

6 S101 UHMW-PE DETAILS
1 1/2" = 1'-0"

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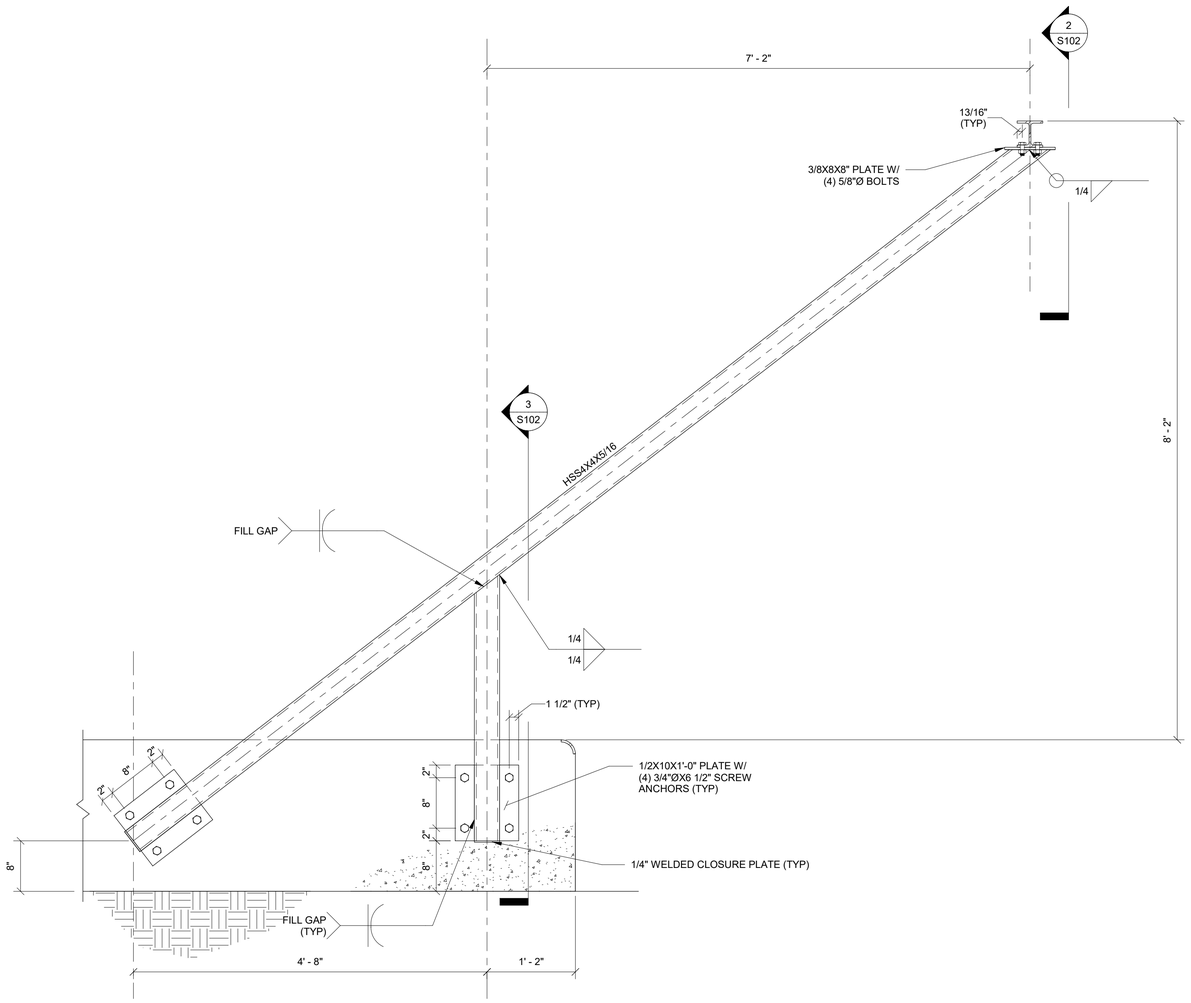
STATE OF ALASKA
49 TH
Peter A. Jacobsen
06-FEB-2025
No. SE14544
REGISTERED STRUCTURAL ENGINEER

DRIFT BOAT RETRIEVAL SYSTEM

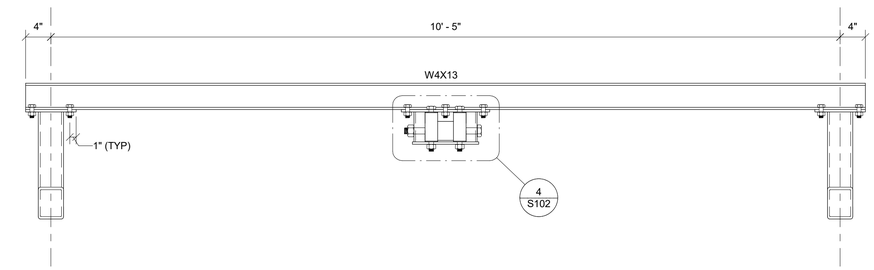
ISSUE DATE	06 FEB 2025
COMM. NUMBER	862303
DESIGNED BY	PAJ
DRAWN BY	PAJ
SCALE	0" 1"

BOAT RETRIEVAL STRUCTURE DETAILS

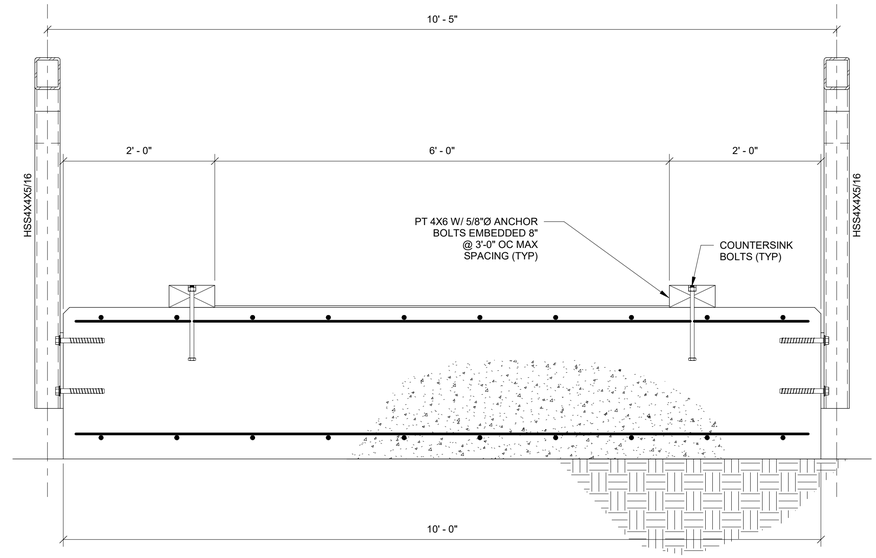
S101



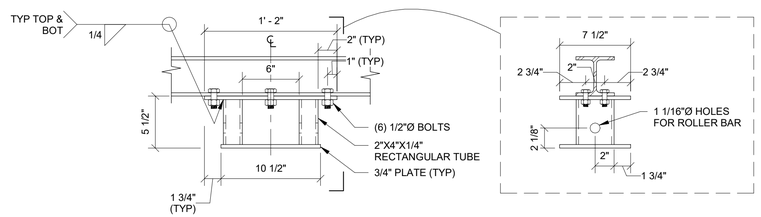
1 S102 CABLE SUPPORT FRAME DETAIL 1
1" = 1'-0"



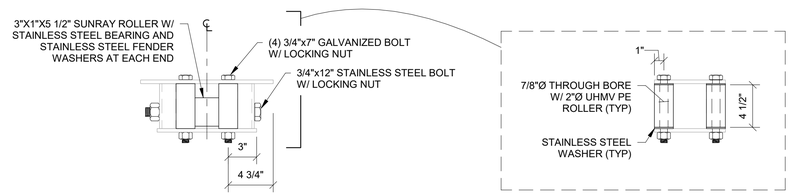
2 S102 CABLE SUPPORT FRAME DETAIL2
1" = 1'-0"



3 S102 CABLE SUPPORT FRAME DETAIL 3
1" = 1'-0"



4 S102 FAIRLEAD FRAME DETAIL
1 1/2" = 1'-0"



NOTE:
THE MAIN HORIZONTAL ROLLER FOR THE FAIRLEAD SYSTEM SHALL BE 3"O.D., 1"I.D., AND 5 1/2" WIDE AS SHOWN. THE ROLLER SHALL BE MADE OF ULTRA HIGH MOLECULAR WEIGHT (UHMW) POLYETHYLENE, 70D DUROMETER W/ A STAINLESS STEEL CORE AND SHALL HAVE SEALED STAINLESS STEEL BEARINGS HAVING AN INSIDE DIAMETER OF 1"

5 S102 FAIRLEAD ASSEMBLY DETAIL
1 1/2" = 1'-0"

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BOAT RETRIEVAL STRUCTURE DETAILS

S102