REGIONAL DISTRICT OF NANAIMO

NILE CREEK
BRIDGE CROSSING

DRAWING LIST

DRAWING NUMBER	DESCRIPTION
0837-090-S00	COVER SHEET AND DRAWING LIST
0837-090-S01	GENERAL NOTES AND KEY PLAN
0837-090-S02	GENERAL ARRANGEMENT
0837-090-S03	PLAN AND ELEVATION
0837-090-S04	SECTIONS AND DETAILS
0837-090-S05	GIRDERS, DIAPHRAGMS AND BRACING
0837-090-S06	ABUTMENTS

ISSUED FOR TENDER

HEROLD ENGINEERING

3701 Shenton Rd, Nanaimo, BC V9T 2H1
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HEROLD PROJECT No.
0837-090

File: H:\Projects\0837-090 Nile Creek Bridge Crossing\04S Drawings\Active\0837-090-S00.dwg Plot Time: Jun 27, 2024 - 5:24pm User: JCheffins
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ARCHITECTURAL D 24" x 36"

GENERAL NOTES:

GENERAL

1. DESIGN LOADS

LIVE LOAD: 4.0 kPa PER CHBDC

SNOW LOAD: Ss = 2.0 kPa
Sr = 0.4 kPa

WIND LOAD: q = .635 kPa

2. READ STRUCTURAL DRAWINGS IN CONJUNCTION WITH ALL OTHER CONTRACT DRAWINGS AND DOCUMENTS. REPORT ANY CONFLICTS TO THE ENGINEER BEFORE COMMENCING WORK.
3. VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.
4. NOTIFY ENGINEER 48 HOURS IN ADVANCE FOR INSPECTION OF STRUCTURAL CONNECTIONS.
5. CONTRACTOR'S RESPONSIBILITY: THESE DRAWINGS SHOW COMPLETED STRUCTURAL COMPONENTS OF THE BRIDGE. THE REQUIRED TEMPORARY BRACING AND SHORING TO PERFORM THE WORK SAFELY IS THE RESPONSIBILITY OF THE CONTRACTOR.
6. ENVIRONMENTAL WORK PROCEDURES, TIMING, AND SPECIAL PRECAUTIONS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS AND LIMITATIONS OF THE FEDERAL DEPARTMENT OF FISHERIES AND OCEANS, AND THE PROVINCIAL MINISTRY OF WATER, LAND AND AIR PROTECTION AND THE CITY OF NANAIMO.
7. SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION.
8. ELEVATIONS ARE IN METRES AND DIMENSIONS ARE IN MILLIMETRES.
9. UNDER NO CIRCUMSTANCES ARE DRAWINGS TO BE SCALED.
10. QUALITY ASSURANCE QUALIFICATION OF CONTRACTOR AND SUPERINTENDENT: THE CONTRACTOR SHALL BE FULLY CONVERSANT WITH ALL SAFETY PROCEDURES AND REGULATIONS RELATING TO CONSTRUCTION, AND SHALL EMPLOY STAGING AND OTHER SAFETY PROVISIONS AS SPECIFIED ELSEWHERE AND REQUIRED BY THE WORKERS COMPENSATION BOARD REGULATIONS.
11. SHOP DRAWINGS MUST BE SUBMITTED FOR APPROVAL A MINIMUM OF 2 WEEKS PRIOR TO START OF FABRICATION, FABRICATION MUST NOT COMMENCE PRIOR TO APPROVAL OF THE SHOP DRAWINGS BY THE OWNER'S REPRESENTATIVE.
12. METAL MILL TEST CERTIFICATES AND WELD INSPECTION REPORTS MUST BE SUBMITTED A MINIMUM OF 72 HOURS PRIOR TO TRANSPORTING COMPONENTS TO SITE. COMPONENTS MUST NOT BE SHIPPED PRIOR TO APPROVAL OF CERTIFICATES AND REPORT BY OWNER'S REPRESENTATIVE.
13. THE CONTRACTOR MUST PROVIDE 48 HOURS NOTICE TO THE OWNER'S REPRESENTATIVE FOR THE FOLLOWING REVIEWS TO BE PERFORMED.
- FABRICATION REVIEW, TO BE PERFORMED ONCE FABRICATION IS SUBSTANTIALLY COMPLETE AND PRIOR TO SHIPPING OF COMPONENTS.
- CONCRETE PRE-POUR REVIEW, TO BE PERFORMED ONCE REINFORCEMENT IS PLACED AND PRIOR TO CASTING OF ITEMS.
- FINAL INSTALLATION REVIEW, TO BE PERFORMED ONCE MAJORITY OF THE STRUCTURE IS INSTALLED.

14. ANY DEFICIENCIES NOTED DURING A FIELD REVIEW MUST BE CORRECTED PRIOR TO THE COMPLETION OF THE AFFECTED STAGE OF WORK.
15. ADDITIONAL FIELD REVIEWS MAY BE REQUIRED AT THE DISCRETION OF THE OWNER'S REPRESENTATIVE.

DEMOLITION

1. ALL EXISTING MATERIAL TO BE DISPOSED OF OFF SITE IN ACCORDANCE WITH ALL LOCAL, PROVINCIAL AND FEDERAL REGULATIONS.
2. DEMOLITION OF EXISTING STRUCTURES TO BE CARRIED OUT IN ACCORDANCE WITH CSA S350-M1580, CODE OF PRACTICE FOR SAFETY IN DEMOLITION OF STRUCTURES.

ENVIRONMENTAL CONSTRUCTION REQUIREMENTS

1. ALL WORKS ARE TO BE COMPLETED WITHIN THE FISHERIES WINDOW.
2. ACCESS TO THE PROJECT SITE IS TO BE EXCLUSIVELY FROM THE SOUTH SIDE OF THE NILE CREEK.
3. CONTRACTOR TO PROVIDE 48 HOURS NOTICE TO THE OWNER PRIOR TO ANY CONCRETE POURS.
4. AN ENVIRONMENTAL MONITOR, RETAINED BY THE OWNER, SHALL BE PRESENT DURING ANY CONCRETE POURS OR OTHER ACTIVITIES WITH ENVIRONMENTAL RISKS.
5. ANY MACHINERY OR EQUIPMENT OPERATED ON SITE SHALL BE CLEAN, FREE OF LEAKS AND IN GOOD WORKING CONDITION.
6. SPILL KITS SHALL BE AVAILABLE ON SITE AT ALL TIMES.
7. REFUELING OF ANY MACHINERY IS TO TAKE PLACE A MINIMUM OF 30M FROM THE TOP OF THE RIVER BANK.
8. ANY TEMPORARY WORKS INCLUDING ACCESS SCAFFOLDING SHALL BE INSTALLED IN A MANNER WHICH MINIMIZES REMOVAL OF, OR DAMAGE TO, EXISTING VEGETATION.
9. ANY CONCRETE AND CONCRETE WASH WATER IS TO BE CONTAINED AND MUST NOT ALLOWED TO ENTER THE RIVER.
10. ANY CAST-IN-PLACE CONCRETE MUST BE ISOLATED FROM THE RIVER FOR A MINIMUM OF 48 HOURS.
11. ALL TREES AND ROOTS TO BE PRESERVED WHERE POSSIBLE. ALL DISTURBED AREAS TO BE REMEDIATED IN ACCORDANCE WITH THE ENVIRONMENTAL MANAGEMENT PLAN.
11. ALL DEMOLISHED MATERIALS ARE TO BE REMOVED FROM SITE.
12. NO DEMOLISHED MATERIAL IS TO BE ALLOWED TO ENTER THE WATERWAY DURING DEMOLITION OR REMOVAL.

CAST-IN-PLACE CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF CAN/CSA A23.1 AND A23.2, LATEST EDITION.
2. CONCRETE MIXES SHALL CONFORM TO CAN/CSA A23.1 AND A23.2 AND SHALL HAVE THE FOLLOWING PROPERTIES:

CLASS	28 DAY STRENGTH	MAXIMUM AGGREGATE SIZE	MAXIMUM SLUMP	AIR CONTENT	EXPOSURE
ALL ITEMS	30 MPa	19mm	75mm	4% TO 7%	F-2

3. REINFORCING STEEL TO CONFORM TO CSA SPECIFICATION G30.18M, GRADE 400, UNLESS NOTED OTHERWISE.
4. LAP OF BARS FOR SPLICES TO BE 40 x BAR DIAMETER, UNLESS NOTED OTHERWISE.
5. PROVIDE A 20mm CHAMFER ON ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE.
6. CONCRETE FINISHES SHALL BE IN ACCORDANCE WITH CAN/CSA A23.1.
7. ALL CONCRETE CURING SHALL BE IN ACCORDANCE WITH CAN/CSA A23.1. SPECIAL PRECAUTIONS SHALL BE TAKEN AS NOTED IN CSA A23.1 FOR PLACING AND CURING CONCRETE ABOVE 27° C AND BELOW 5° C.
8. MINIMUM CONCRETE COVER TO REINFORCING SHALL BE 50mm, UNLESS NOTED OTHERWISE.
9. REINFORCEMENT ABBREVIATIONS:

H2E	HOOK 2-ENDS, STANDARD HOOK
H1E	HOOK 1-END, STANDARD HOOK
H2E600	HOOK 2-ENDS, 600 LONG HOOKS
15M1600	15M STRAIGHT BAR, 1600 LONG

ANCHOR RODS

1. ALL ANCHOR RODS ARE TO MEET THE REQUIREMENTS OF ASTM F1554 GRADE 36.
2. ALL ANCHOR RODS ARE TO BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C.

STEEL

1. ALL FABRICATED AND MISCELLANEOUS METAL TO MEET CSA G40.21 GRADE 350AT UNLESS NOTED OTHERWISE.
2. BOLTED CONNECTIONS BETWEEN STEEL COMPONENTS SHALL UTILIZE ASTM A325 TYPE 3 BOLTS OR GALVANIZED ASTM A325 TYPE 1 BOLTS COMPLETE WITH MATCHING NUTS AND WASHERS, UNLESS OTHERWISE SHOWN ON DRAWINGS.
3. FOR OTHER CONNECTIONS BOLTS, NUTS, MALLEABLE IRON WASHERS, LAG SCREWS, ARDOX SPIKES AND NAILS, SHALL BE HOT DIP GALVANIZED FOR EXTERIOR USE. NAILS AND SPIKES TO CONFORM TO CSA B111-1974, S406-92. BOLTS AND NUTS SHALL CONFORM TO ASTM A307.
4. WELDING SHALL BE IN ACCORDANCE WITH CSA W59 BY FABRICATORS AND ERECTORS CERTIFIED BY THE CANADIAN WELDING BUREAU TO CSA W47.1 (DIVISION 1 OR DIVISION 2).
5. ALL WELDS SHALL BE 6mm FILLET WELD MINUMUM, UNLESS NOTED OTHERWISE.

WELDING INSPECTIONS

1. ALL WELD INSPECTIONS ARE TO BE PERFORMED BY A THIRD PARTY COMPANY RETAINED BY THE CONTRACTOR AND CERTIFIED TO CSA W178.2
2. WELDING SHALL BE INSPECTED AS FOLLOWS:
- FILLET WELDS - OTHER - VISUAL - 25%
- CP WELDS - RADIOGRAPHIC OR ULTRASONIC - 100%

3. ANY FAILURES IDENTIFIED BY INSPECTOR SHALL BE CORRECTED AND RE-INSPECTED AT THE CONTRACTORS EXPENSE.
4. SUBMIT ALL INSPECTION REPORTS TO THE OWNER'S REPRESENTATIVE FOR REVIEW. DO NOT COVER MEMBERS AND THEIR CONNECTIONS WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER.

TIMBER

1. ALL NEW TIMBER TO CONFORM TO CSA-O141-91 "SOFTWOOD LUMBER" TIMBER GRADES AND SPECIES AS FOLLOWS:

MEMBER	(FINISH)	SPECIES	GRADE
POSTS	ROUGH	YELL. CEDAR (NORTHERN SPECIES)	GROUP No. 1, OR BETTER
RAILS	(S4S)	YELL. CEDAR (NORTHERN SPECIES)	GROUP No. 1, OR BETTER
CAP	(S4S)	YELL. CEDAR (NORTHERN SPECIES)	GROUP No. 1, OR BETTER
DECKING	ROUGH	YELL. CEDAR (NORTHERN SPECIES)	GROUP No. 1, OR BETTER

2. ALL TIMBER CONSTRUCTION, DETAILS AND FASTENINGS SHALL CONFORM FULLY TO CSA O86, CURRENT EDITION.
3. PRE-DRILL ALL BOLT AND LAG SCREW SHANK HOLES (BUT NOT LEAD HOLES). BOLT HOLES SHOULD BE FULL LENGTH AND SIZE FOR MACHINE BOLTS.
4. NAILING STRIP TO BE HDPE MATERIAL, BROWN IN COLOUR. CONTRACTOR TO SUBMIT MATERIAL SPECIFICATIONS WITH BID.

ABBREVIATIONS

BRG.	-	BEARING
CL.	-	CLEAR
℄	-	CENTRELINE
CP.	-	COMPLETE PENETRATION
C/W	-	COMPLETE WITH
DWG.	-	DRAWING
EL.	-	ELEVATION
I.D.	-	INSIDE DIAMETER
LLH	-	LONG LEG HORIZONTAL
LLV	-	LONG LEG VERTICAL
MAX.	-	MAXIMUM
MIN.	-	MINIMUM
N.T.S.	-	NOT TO SCALE
OPP.	-	OPPOSITE
PL	-	PLATE
R	-	RADIUS
S4S	-	SMOOTH 4 SIDES
SIM.	-	SIMILAR
S.S.	-	STAINLESS STEEL
T.O.	-	TOP OF
TYP.	-	TYPICAL
U/S	-	UNDERSIDE
U.N.O.	-	UNLESS NOTED OTHERWISE
WP	-	WORK POINT

NORTH



KEY PLAN
N.T.S.

NOT FOR CONSTRUCTION

ISSUES

No.	DATE YYYY.MM.DD	ISSUED FOR
A	2022.08.24	CLIENT REVIEW
B	2024.05.14	CLIENT REVIEW
C	2024.06.27	TENDER

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2024-06-27

GENERAL NOTES AND KEY PLAN

NILE CREEK BRIDGE CROSSING

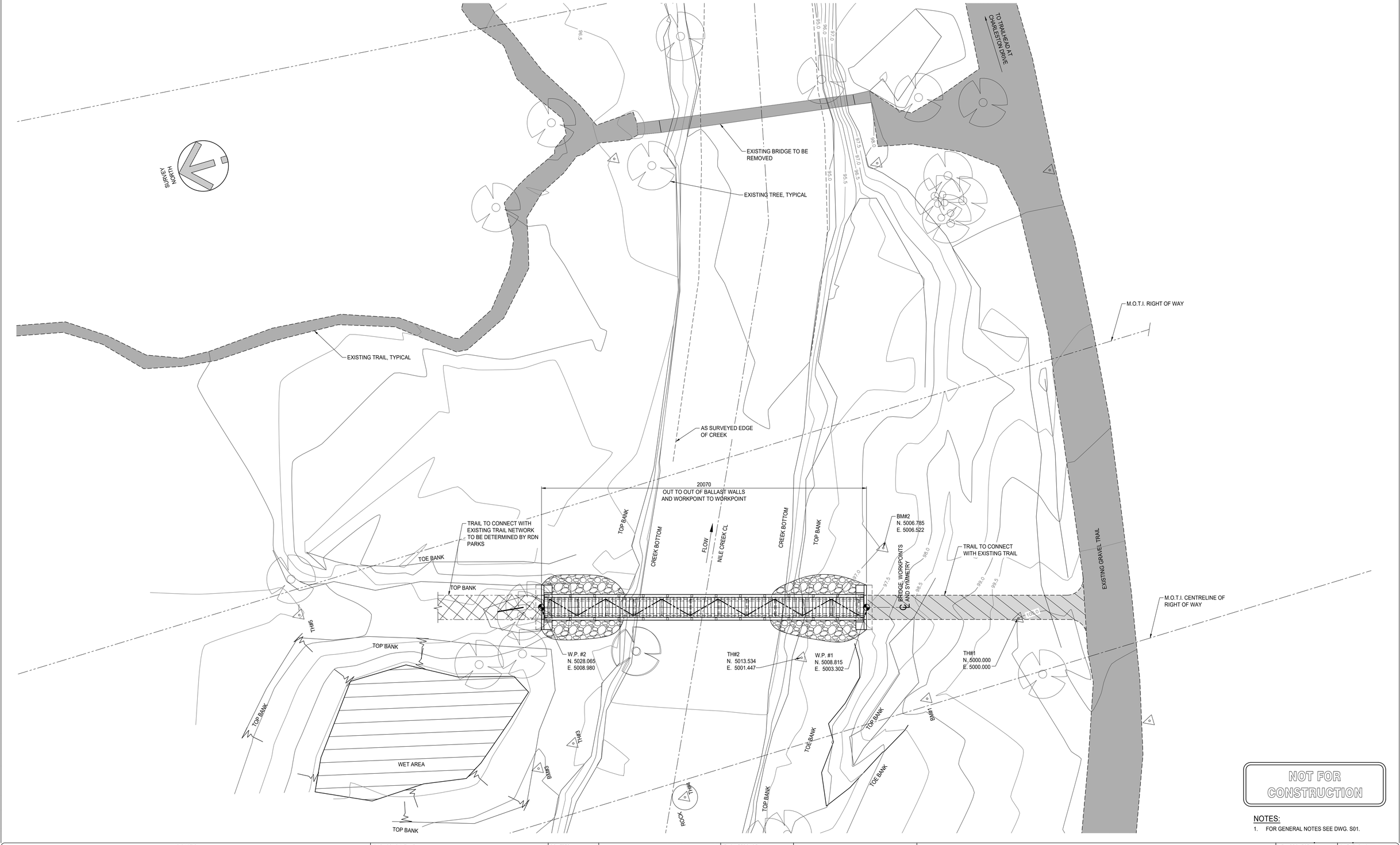
QUALICUM BAY
REGIONAL DISTRICT OF NANAIMO

HEL PROJECT No.	CLIENT DWG. No.
0837-090	N/A
SCALE	PERMIT No.
NONE	N/A
HEL DRAWING No.	REVISION
S01	C

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ARCHITECTURAL D 24" x 36"



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NOTES:

1. FOR GENERAL NOTES SEE DWG. S01.

ISSUES								
No.	DATE YYY.MM.DD	ISSUED FOR	No.	DATE YYY.MM.DD	ISSUED FOR	No.	DATE YYY.MM.DD	ISSUED FOR
A	2022.08.24	INFORMATION						
B	2023.09.28	CLIENT REVIEW						
C	2024.05.14	CLIENT REVIEW						
D	2024.06.27	TENDER						

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GENERAL ARRANGEMENT

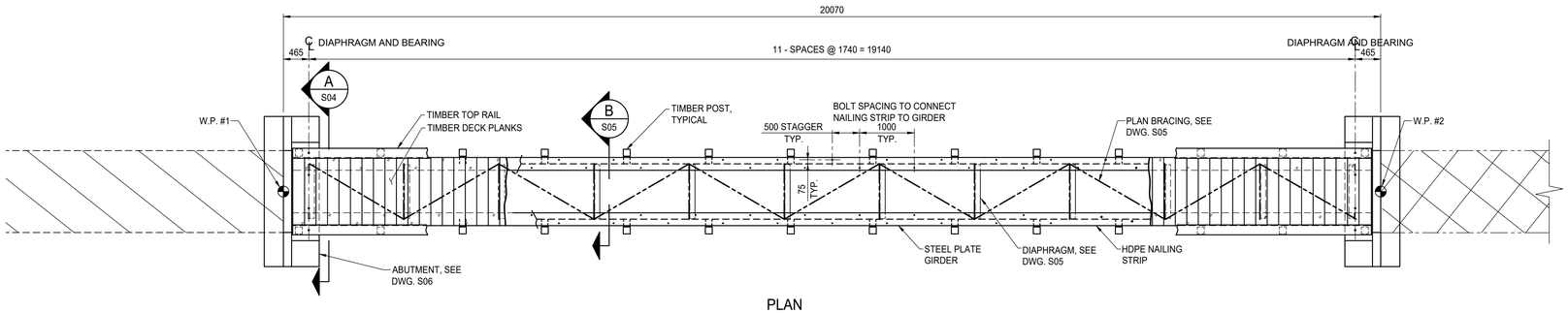
NILE CREEK BRIDGE CROSSING

QUALICUM BAY
REGIONAL DISTRICT OF NANAIMO

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HEL DRAWING No. S02	REVISION C

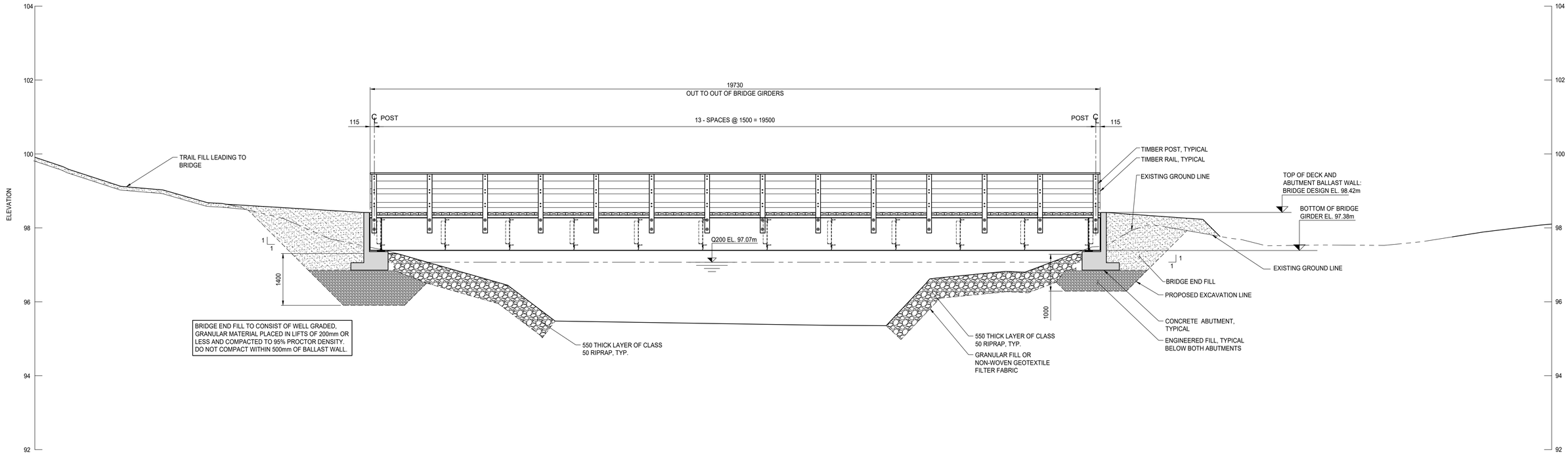
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PLAN

1:50



NOTE: THE Q200 WATER LEVEL INDICATED IS APPROXIMATE AND BASED ON THE FOLLOWING:

- DRAINAGE AREA = 14.7 KM^2
- DRAINAGE ELEVATIONS = 980M AT TOP OF CREEK, 15M AT BRIDGE LOCATION FROM RDN PUBLIC VIEWER MAP
- HYDRAULIC OPENING AND LOCAL STREAM GRADIENT OF 0.035M/M FROM HEROLD ENGINEERING LIMITED SURVEY DATED 2022
- MANNING COEFFICIENT (LOCAL) = 0.05
- DESIGN APPROACH BY MOTI FOR DRAINAGE AREA UP TO 10KM^2
- LIMITED DATA LEAD TO ASSUMPTIONS AND METHODS SIMILARLY USED IN BC MOTI HYDROLOGY EXAMPLE FOR SMALLER AND NEAR BY THAMES CREEK.
- RESULTS INLINE WITH THAMES CREEK AND FINDINGS FROM SURVEY STATION LOCATION DOWNSTREAM.

NOT FOR CONSTRUCTION

NOTES:

1. FOR GENERAL NOTES SEE DWG. S01.

ISSUES

No.	DATE YYYY.MM.DD	ISSUED FOR
A	2023.09.18	CLIENT REVIEW
B	2024.05.16	CLIENT REVIEW
C	2024.06.27	TENDER

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PLAN AND ELEVATION

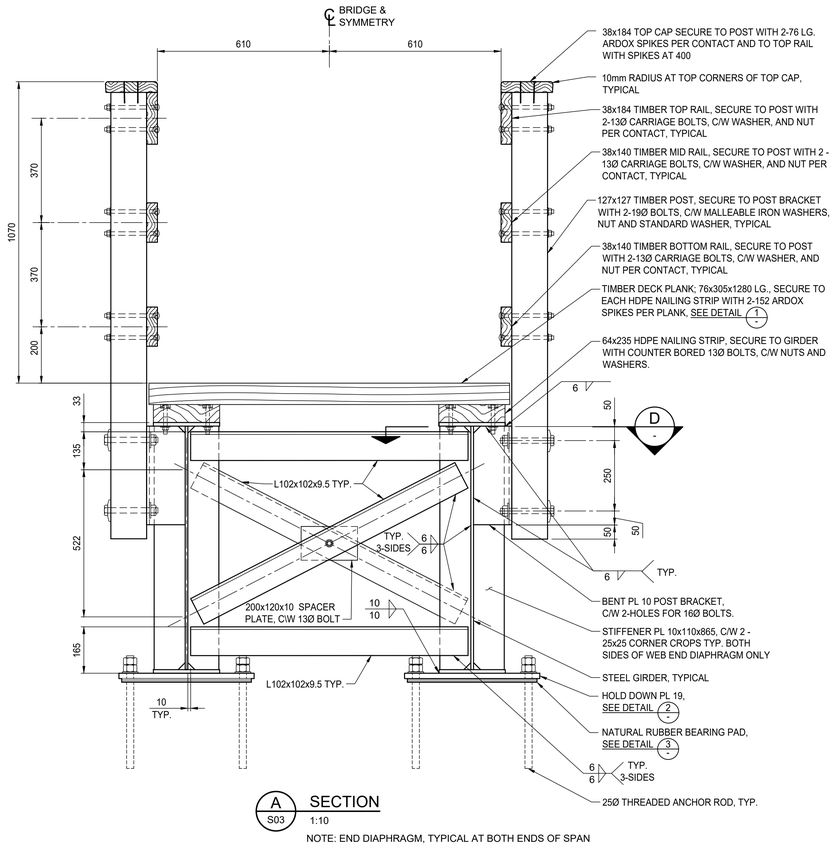
NILE CREEK BRIDGE CROSSING

QUALICUM BAY
REGIONAL DISTRICT OF NANAIMO

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0837-090	N/A
SCALE	PERMIT No.
AS NOTED	N/A
HEL DRAWING No.	REVISION
S03	C

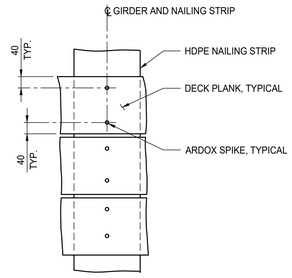
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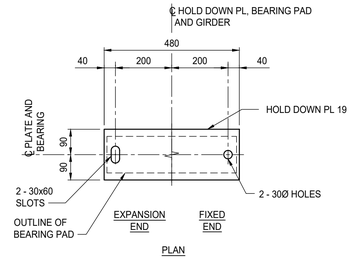


A S03 SECTION
1:10

NOTE: END DIAPHRAGM, TYPICAL AT BOTH ENDS OF SPAN

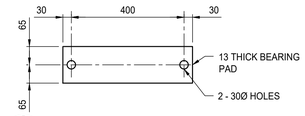


1 - DETAIL - PLAN
1:10



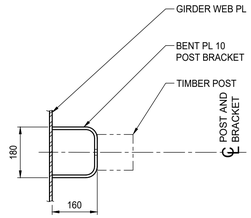
2 - DETAIL - HOLD DOWN PLATE
1:10

NOTE: 4-REQUIRED. FOR LOCATIONS, SEE S05.



3 - DETAIL - BEARING PAD
1:10

NOTE: 4-REQUIRED. FOR LOCATIONS, SEE S05.



D - SECTION
1:10

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NOTES:
1. FOR GENERAL NOTES SEE DWG. S01.

ISSUES											
No.	DATE YYYY.MM.DD	ISSUED FOR	No.	DATE YYYY.MM.DD	ISSUED FOR	No.	DATE YYYY.MM.DD	ISSUED FOR
A	2024.05.16	CLIENT REVIEW						
B	2024.06.27	TENDER						

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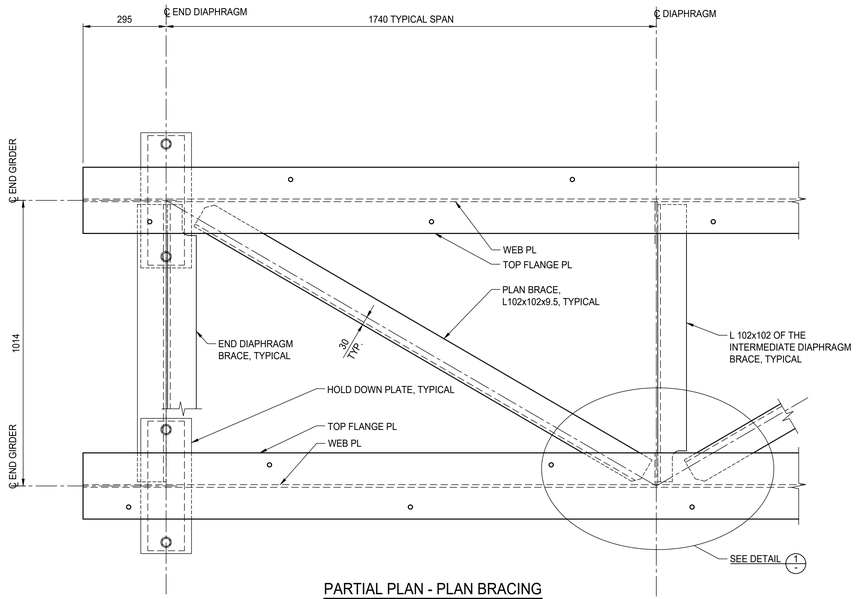
SECTIONS AND DETAILS

NILE CREEK BRIDGE CROSSING
QUALICUM BAY
REGIONAL DISTRICT OF NANAIMO

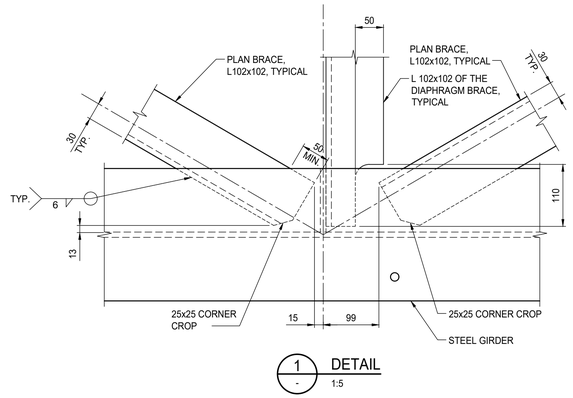
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0837-090	N/A
SCALE: AS NOTED	PERMIT No.: N/A
HEL DRAWING No.: S04	REVISION: B

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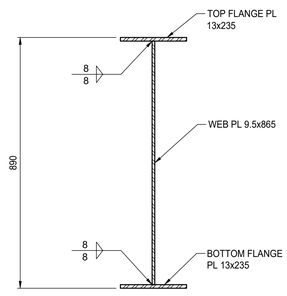
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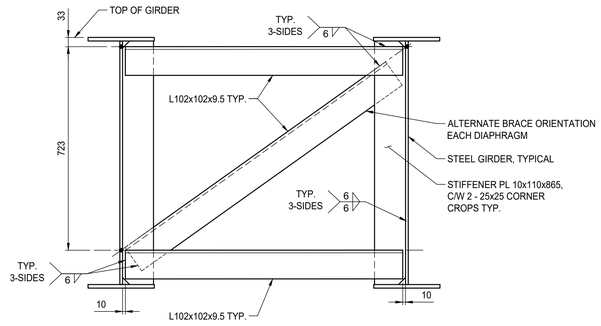
PARTIAL PLAN - PLAN BRACING
1:10



1/- DETAIL
1:5



SECTION - PLATE GIRDER
1:10



B/S03 SECTION
1:10

NOTE: INTERMEDIATE DIAPHRAGM 10 REQUIRED

NOT FOR CONSTRUCTION

NOTES:
1. FOR GENERAL NOTES SEE DWG. S01.

ISSUES								
No.	DATE YYYY.MM.DD	ISSUED FOR	No.	DATE YYYY.MM.DD	ISSUED FOR	No.	DATE YYYY.MM.DD	ISSUED FOR
A	2024.05.16	CLIENT REVIEW						
B	2024.06.27	TENDER						

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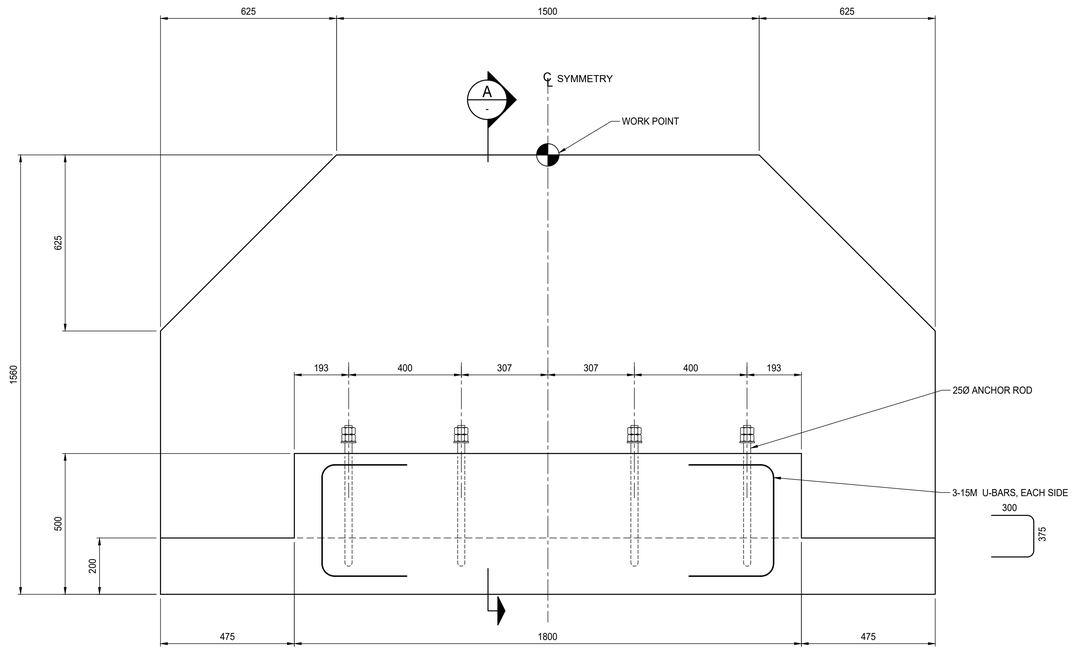
GIRDERS, DIAPHRAGMS AND BRACING

NILE CREEK BRIDGE CROSSING
QUALICUM BAY
REGIONAL DISTRICT OF NANAIMO

HEL PROJECT No.	CLIENT DWG. No.
0837-090	N/A
SCALE: AS NOTED	PERMIT No.: N/A
HEL DRAWING No.: S05	REVISION: B

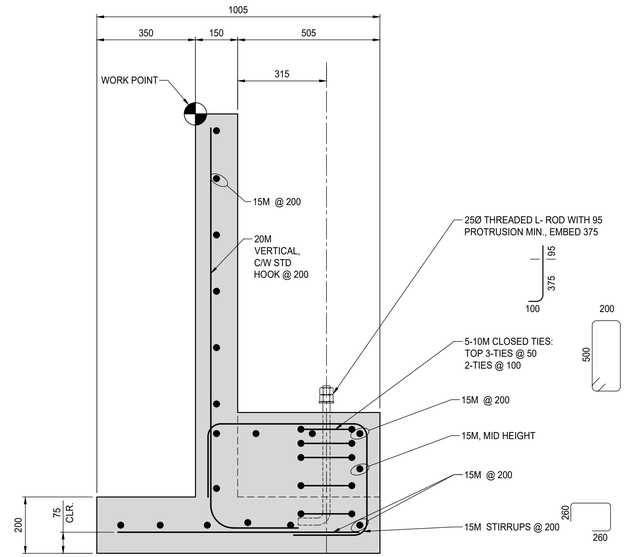
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ELEVATION - FRONT

1:10



A - SECTION

1:10

NOT FOR CONSTRUCTION

NOTES:

1. FOR GENERAL NOTES SEE DWG. S01.

ISSUES								
No.	DATE YYYY.MM.DD	ISSUED FOR	No.	DATE YYYY.MM.DD	ISSUED FOR	No.	DATE YYYY.MM.DD	ISSUED FOR
A	2024.05.16	CLIENT REVIEW						
B	2024.06.27	TENDER						

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SUB CONSULTANT

DRAFTED PHU

DRAFTING REVIEW

DESIGNED GLG

DESIGN REVIEW MGCS

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ENGINEERS SEAL

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA M.C.G. SEYD #29013 ENGINEER

PERMIT TO PRACTICE #1000201

2024-06-27

ABUTMENTS

NILE CREEK BRIDGE CROSSING

QUALICUM BAY

REGIONAL DISTRICT OF NANAIMO

HEL PROJECT No.	CLIENT DWG. No.
0837-090	N/A
SCALE: AS NOTED	PERMIT No.: N/A
HEL DRAWING No.: S06	REVISION: B

DESTROY ALL DRAWINGS SHOWING PREVIOUS REVISION

ARCHITECTURAL D 24" x 36"

File: \\Projects\0837-090 Nile Creek Bridge Crossing\045 Drawings\Active\0837-090-S06.dwg Plot Time: Jun. 27, 24 6:24 PM User: Jonathon Chaffins