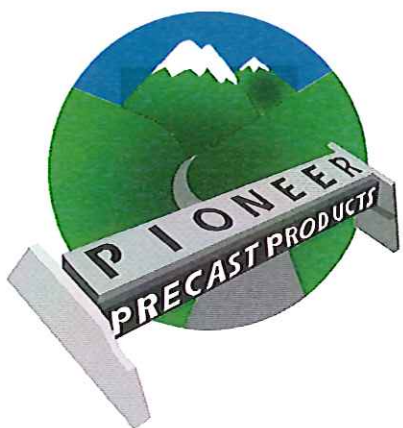




SEETA CREEK
24.384m STEEL/CONCRETE
L100 BRIDGE
MFR STRUCTURE ID: N2-146A

DRAWING LIST		
DRAWING NO	DRAWING TITLE	REVISION
17GP0030-000-1960-001	GENERAL NOTES AND SPECIFICATIONS	2
17GP0030-000-1960-002	BRIDGE ASSEMBLY	2
17GP0030-000-1960-003	PRECAST CONCRETE DECK PANEL L100 - MKA 3.248 x4.876m EXTERIOR	2
17GP0030-000-1960-004	PRECAST CONCRETE DECK PANEL L100 - MKB 3.048 x4.876m INTERIOR	2
17GP0030-000-1960-005	STEEL SUPERSTRUCTURE L-100 24.384m Lg.	1
17GP0030-000-1960-006	PRECAST CONCRETE BALLAST WALL 1830mm DEEP	2
17GP0030-000-1960-007	PRECAST CONCRETE FOOTING 2400 x 2400 x 425mm	2
17GP0030-000-1960-008	BEARING ASSEMBLIES 450x500mm	1
17GP0030-000-1960-009	RAILING DETAILS	2

3	17/02/17	ISSUED FOR CONSTRUCTION	TJB	DY	
2	17/02/16	ISSUED FOR REVIEW	TJB	DY	
1	17/02/15	ISSUED FOR REVIEW	TJB	DY	
0	17/02/07	ISSUED FOR REVIEW	TJB	DY	
REV	YY/MM/DD	DESCRIPTION	DRWN	APVD	



DESCRIPTION: ISSUED FOR CONSTRUCTION
ISSUE DATE: 17/02/17

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CLIENT NO.	-	DRWN:	TJB	DATE:	17/02/03
PROJECT NO.	17GP0030	DSGN:	DY	DATE:	17/02/03
DRAWING SIZE:	ANSI 'B'	CHKD:	-	DATE:	-
SCALE:	AS NOTED	APVD:	-	DATE:	-
DWG NO.	17GP0030-000-1960-000				REV: 3

1. DEAD LOAD – UNIT WEIGHTS AND MATERIALS ARE AS FOLLOWS:

CONCRETE (INCLUDING REINFORCING STEEL)	= 24kN/m ³
STRUCTURAL STEEL	= 77kN/m ³
SOIL	= 22kN/m ³
TIMBER	= 6kN/m ³

LOADING DIAGRAM L-100 OFF HIGHWAY G.V.W. = 90 680kg:

- NOTE: ALL DIMENSIONS ON DRAWINGS TAKEN @ 15°C. IF TEMPERATURE DIFFERS AT TIME OF INSTALLATION OF BEARING, COMPENSATION WILL BE REQUIRED BY SITE ENGINEER.

1. DESIGN IN ACCORDANCE WITH CAN/CSA-S6-14 & VARIATIONS FROM SAME TO COMPENSATE FOR PECULIARITIES OF LOGGING TRUCK LOADS AS OPPOSED TO NORMAL DESIGN VEHICLES.
2. FATIGUE CATEGORY: 500,000 CYCLES AS PER CAN/CSA-S6-14 (DYNAMIC LOAD ALLOWANCE INCLUDED). ALL MATERIAL SHALL BE NEW.
3. STRUCTURE HAS BEEN DESIGNED FOR FUTURE 50mm ASPHALT OVERLAY.

1. THE BRIDGE SHALL HAVE LOAD RATING, DATE OF MANUFACTURE, STRUCTURE NUMBER N2-146A, MANUFACTURER'S NAME CLEARLY STAMPED OR PERMANENTLY MARKED ON ONE SIDE OF THE STRUCTURE. THE HEIGHT OF LETTERING USED SHALL BE MINIMUM 50mm UNLESS NOTED OTHERWISE.

1. THE BRIDGE SHALL BE EQUIPPED WITH 4 HAZARD MARKERS UNLESS OTHERWISE NOTED.
2. THE SITE SHALL HAVE NARROW BRIDGE SIGNS POSTED AT LOCATIONS SPECIFIED BY THE ENGINEER.

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. PIPE SHALL BE IN ACCORDANCE WITH ASTM SPECIFICATION A252 GRADE 3.
3. WELDING SHALL BE IN ACCORDANCE WITH CSA STANDARD W-59. WELDING ELECTRODES TO BE COMPATIBLE WITH BASE MATERIAL. ALL WELDS TO BE 6mm UNLESS OTHERWISE NOTED ON DRAWINGS.
4. ALL LIFTING CABLES TO BE CUT OFF FLUSH AND GROUND SMOOTH. ALL LIFTING RECESSES TO BE GROUTED AFTER COMPONENT INSTALLATION.
5. STUDS TO BE ASTM A108, GRADE 1015, 1018, 1020.

1. GROUT TO BE EXPANDING, NON-SHRINK. GROUT SHALL BE MIXED AND PLACED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND SHALL ACHIEVE A MINIMUM COMPRESSIVE STRENGTH OF 35MPA @ 28 DAY.

1. ALL PRECAST CONCRETE SHALL BE DESIGNED, MIXED, TRANSPORTED, CAST AND CURED ACCORDING TO CSA A23.4-00/A25.1-00-1 "PRECAST CONCRETE – MATERIALS AND CONSTRUCTION/QUALIFICATION CODE FOR ARCHITECTURAL AND STRUCTURAL PRECAST CONCRETE PRODUCTS".
2. CONCRETE SHALL HAVE THE FOLLOWING SPECIFICATIONS:
 - EXPOSURE CLASS C-1
 - 35MPa STRENGTH AT 28 DAYS
 - MAX. AGGREGATE SIZE 20mmØ
 - MIN. ENTRAINED AIR 5% TO 8%
 - MAX. W/C RATIO BY MASS 0.40
 - DECK SURFACE FINISH, ROUGH TRANSVERSE BROOM
3. REINFORCING STEEL COVER REQUIREMENTS:
 - TOP = 50mm
 - BOTTOM = 30mm
 - SIDE = 30mm
4. PRECAST COMPONENTS TO BE MADE IN CSA APPROVED SHOP.
5. ALL EXPOSED CORNERS SHALL HAVE A 20mm CHAMFER OF FILLET UNLESS NOTED OTHERWISE.
6. ALL REINFORCING STEEL TO BE DEFORMED BARS CONFORMING TO CSA G30.18-M, GRADE 400. ALL BARS TO BE CONTINUOUS LENGTH.
7. CONCRETE TEST CERTIFICATES TO BE FORWARDED TO THE ENGINEER.
8. ALL LIFTING RECESSES TO BE GROUTED AFTER COMPONENT INSTALLATION.

1. FOOTINGS HAVE BEEN DESIGNED FOR 200KPA MAXIMUM ALLOWABLE BEARING PRESSURE. A MINIMUM THICKNESS OF 300MM OF GRANULAR MATERIAL SHALL BE COMPACTED TO 98% STANDARD PROCTOR DENSITY, BELOW EACH FOOTING, UNDER THE DIRECT SUPERVISION OF THE ENGINEER.

1. THE BRIDGE WILL BE HANDLED DURING TRANSPORTATION AND ERECTION, IN SUCH A MANNER AS TO NOT CAUSE HARM TO THE BRIDGE OR TO THE COMPONENTS OF THE BRIDGE.
2. GIRDERS MUST BE SUPPORTED WITHIN 1m OF BEARING LOCATIONS DURING TRANSPORTATION AND STORAGE.
3. ONLY LOW IMPACT LIFTS ARE PERMITTED, ANGLE OF LIFT MUST NOT EXCEED 30° FROM THE VERTICAL.
4. GIRDER IS DESIGNED FOR CANTILEVERED LAUNCH. GIRDER MUST NOT CANTILEVER MORE THAN HALF ITS LENGTH DURING LAUNCHING.

1. PIPE SHALL BE IN ACCORDANCE WITH ASTM A252 GRADE 3. MATERIAL CERTIFICATES ARE TO BE FORWARDED TO THE ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.
2. ALL STEEL SHALL BE IN ACCORDANCE WITH CSA STANDARD G40.21,
 - GRADE 350AT, CATEGORY 3 (GIRDER PLATES)
 - GRADE 350A (ANGLES AND PLATES) EMBEDDED
 - GRADE 350W (TUBING, CHANNELS, W AND HP-SECTIONS)

NON-WEATHERING STEEL SECTIONS ARE TO BE PAINTED USING AN APPROVED PAINT SYSTEM UNLESS NOTED OTHERWISE. MATERIAL CERTIFICATES ARE TO BE FORWARDED TO THE ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.

3. GIRDERS ARE DESIGNED AS FRACTURE CRITICAL MEMBERS.
4. WELDING SHALL BE IN ACCORDANCE WITH CSA STANDARD W-59. WELDING ELECTRODES TO BE COMPATIBLE WITH BASE METAL. ALL WELDS TO BE 6mm UNLESS OTHERWISE NOTED ON DRAWINGS.
5. ALL BUTT WELDS TO BE RADIOGRAPHIC TESTED WITH COPIES SENT TO THE ENGINEER.

1. GUARDRAILS HAVE BEEN DESIGNED TO MEET THE CRITERIA FOR CONTAINMENT LEVEL CL-3 AS DEFINED BY THE MINISTRY. GUARDRAILS HAVE NOT BEEN DESIGNED TO CONTAIN ERRANT VEHICLES.
2. FOR GUARDRAIL ANCHOR DETAILS SEE MINISTRY STANDARD DRAWINGS
- STD-EC-010-03 & 04.

STEEL:
RAILS AND POSTS - TO CSA G40.21M - GRADE 350W (COATED) POST
- GRADE 350A (UNCOATED) RAIL
PLATE - TO CSA G40.21M - GRADE 350W (COATED)

WELDING

- SHOP WELDING IN ACCORDANCE WITH CSA W59 FABRICATOR TO BE CERTIFIED FOR DIVISION 1,2, OR 3 IN ACCORDANCE WITH CSA W47.1.
- FIELD WELDING BY COMPANY CERTIFIED TO CSA W47.1, DIVISIONS 1,2 OR 3.
- MIN. 6mm FILLET WELD UNLESS OTHERWISE NOTED.

GUARDRAIL BRACKETS AND POST COATING TO BE PAINTED

- HSS RAIL TO BE PAINTED SAFETY YELLOW IN ACCORDANCE WITH MINISTRY STEEL GUARDRAIL COMPONENT PAINT STANDARD;
- GALVANIZING WHERE SPECIFIED, TO CSA G164, MINIMUM 610g/m².

- ALL HARDWARE (BOLTS, NUTS, WASHERS) TO BE GALVANIZED TO CSA G164, MINIMUM 610G/M².
- BOLTS TO ASTM A307 GRADE B GALVANIZED.

A circular red ink seal for a Professional Engineer in the Province of Ontario. The outer ring contains the text "PROFESSIONAL ENGINEER" at the top and "PROVINCE OF ONTARIO" at the bottom. In the center, the name "W. B. MAJOR" is stamped above the number "# 30956". Below the number is a small rectangular stamp that reads "BRITISH COLUMBIA". A large, stylized handwritten signature is written across the seal, and the date "Feb 1972" is handwritten at the bottom.

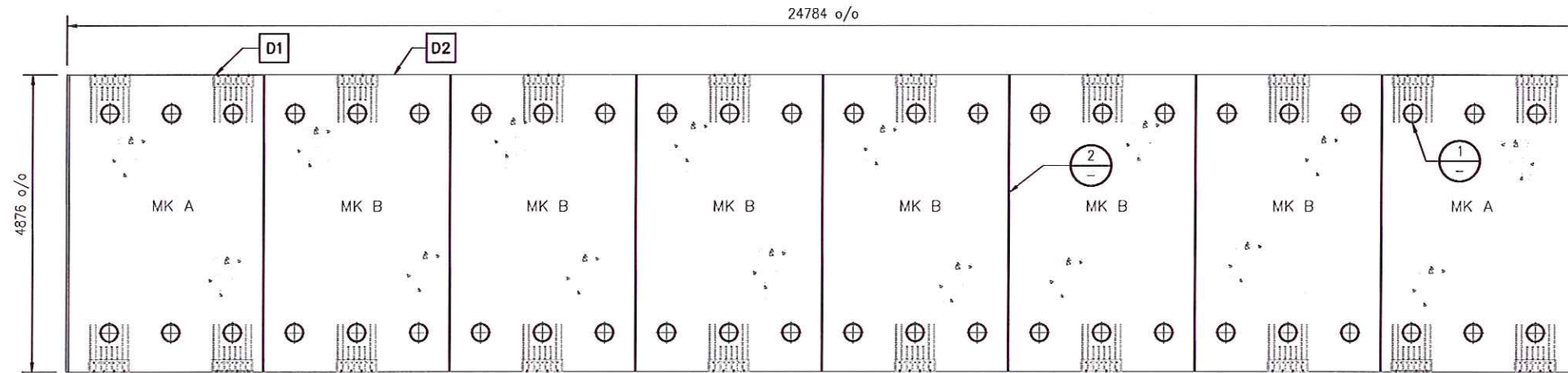
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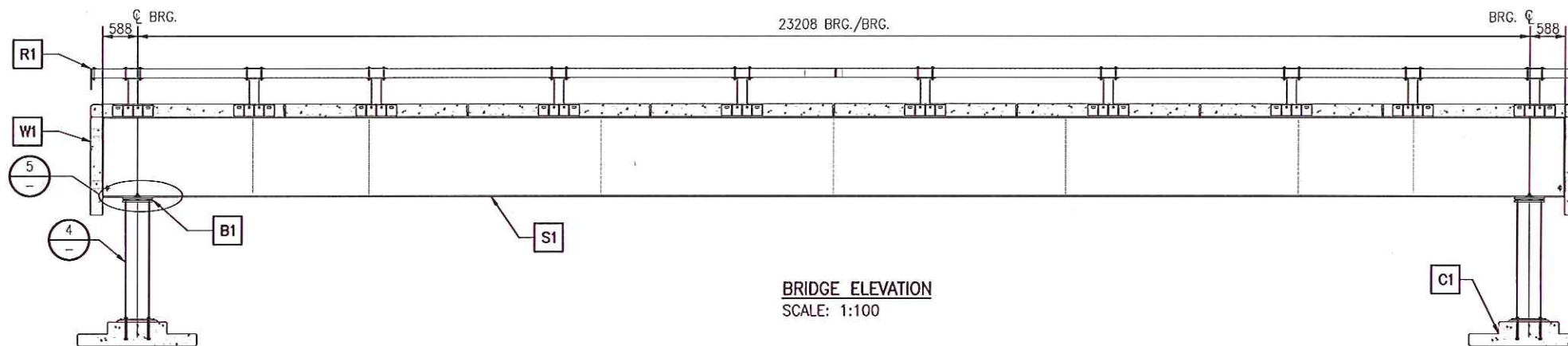
PROJECT: SEETA CREEK
24.384m STEEL/CONCRETE
L100 BRIDGE
MFR STRUCTURE ID: N2-146A

DWG NO:	REV:
17GP0030-000-1960-001	2

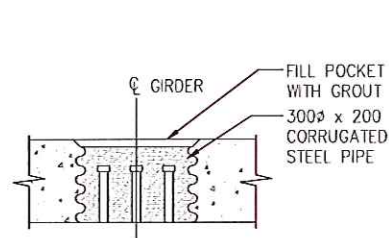
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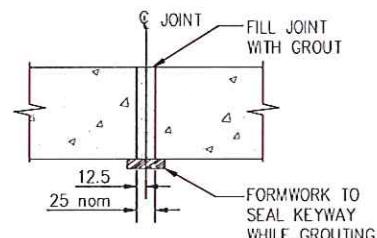
DECK PLAN
SCALE: 1:100



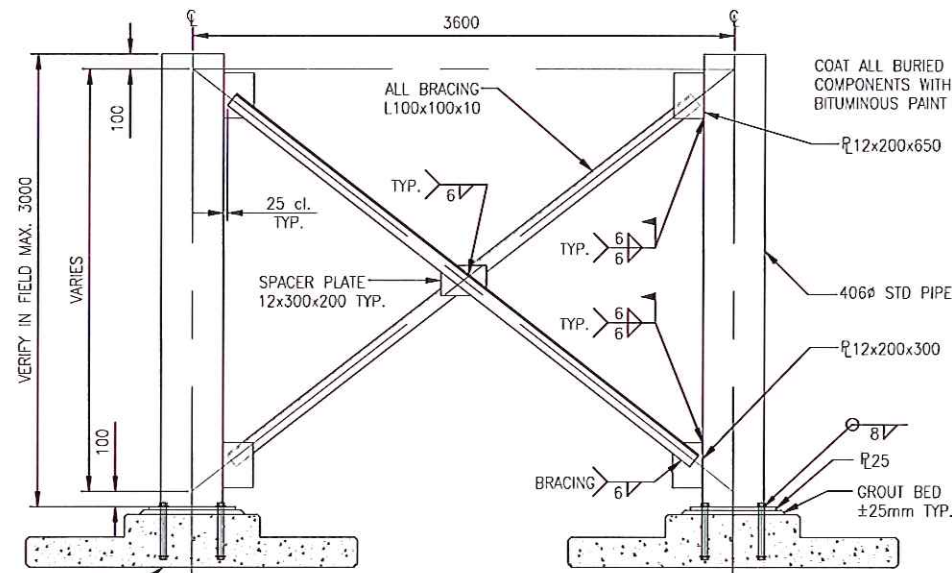
BRIDGE ELEVATION
SCALE: 1:100



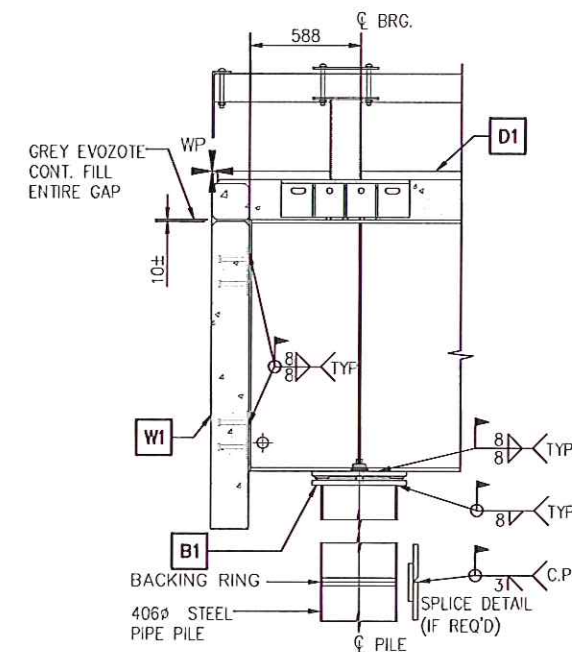
DETAIL - DECK CONNECTION 1
SCALE: 1:20



DETAIL - DECK JOINT 2
SCALE: 1:20



ABUTMENT BRACING 4
SCALE: 1:50



ABUTMENT BRACING 5
SCALE: 1:40

ITEM	QTY.	PAGE	DESCRIPTION
D1	2	3	PRECAST CONCRETE DECK PANEL MK A - L100 - 3248x4876
D2	6	4	PRECAST CONCRETE DECK PANEL MK B - L100 - 3048x4876
S1	1	5	STEEL SUPERSTRUCTURE - L100 - 24.384m LG.
W1	2	6	PRECAST CONCRETE BALLAST WALL - 1830 DEEP - 4876mm DECK L100
B1	4	8	BEARING ASSEMBLIES - 450x500 PAD
F1	4	7	PRECAST CONCRETE FOOTINGS - 2400x2400x425
R1	2	9	BRIDGE RAIL TYPE CL3

REFERENCE DRAWINGS		
DRAWING NO	DRAWING DESCRIPTION/TITLE	REF
-	-	1

NOTE:
1. FOR SPECIFICATIONS REFER TO DRAWING
17GP0030-000-1960-001



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1	17/02/16	ISSUED FOR REVIEW	TJB	DY
0	17/02/15	ISSUED FOR REVIEW	TJB	DY

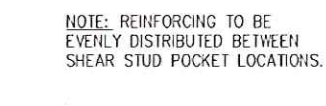


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PROJECT NO:	17GP0030	DSGN:	DY	DATE:	17/02/07
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SCALE:	AS NOTED	APVD:	-	DATE:	-

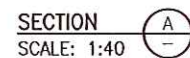
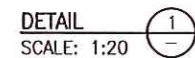
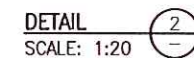
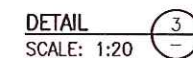
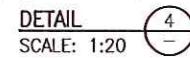
PROJECT:
**SEETA CREEK
24.384m STEEL/CONCRETE
L100 BRIDGE
MFR STRUCTURE ID: N2-146A**

TITLE:
BRIDGE ASSEMBLY

DWG NO.	17GP0030-000-1960-002	REV.	2
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SCALE: 1:40
(2 REQUIRED)



NOTE:
1. FOR SPECIFICATIONS REFER TO DRAWING 17GP0030-000-1960-001
2. ESTIMATED MASS = 8720kg.

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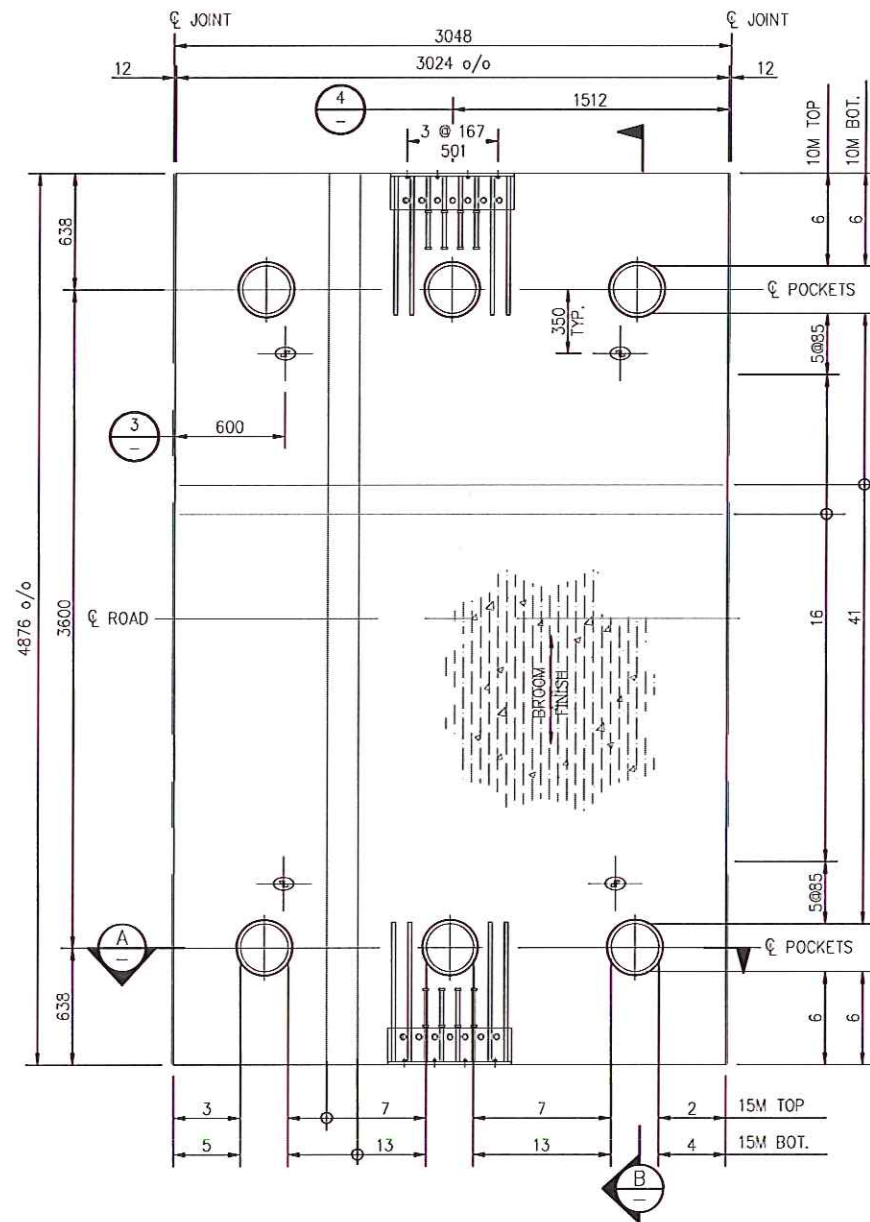
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PROJECT:

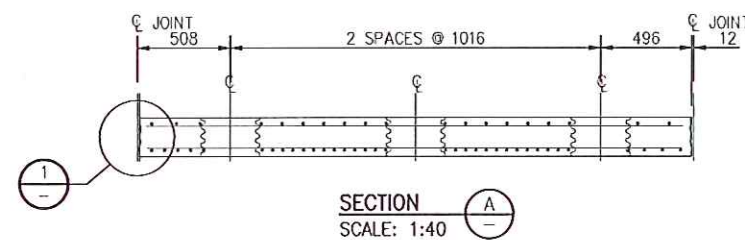
**SEETA CREEK
24.384m STEEL/CONCRETE
L100 BRIDGE
MFR STRUCTURE ID: N2-146A**

DWG NO:	REV.
17GP0030-000-1960-003	2

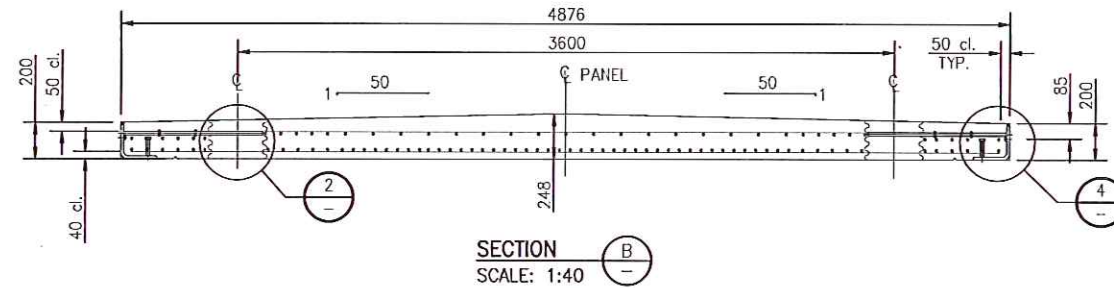


NOTE: REINFORCING TO BE EVENLY DISTRIBUTED BETWEEN SHEAR STUD POCKET LOCATIONS.

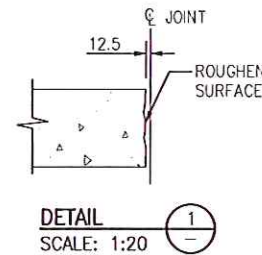
PLAN - PANEL MK B
SCALE: 1:40
(6 REQUIRED)



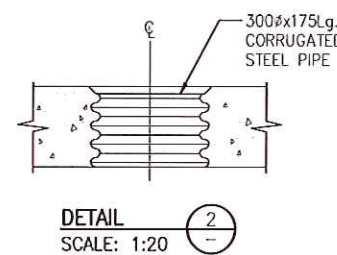
SECTION A
SCALE: 1:40



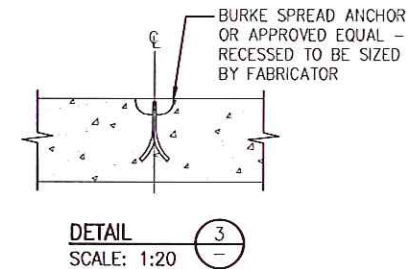
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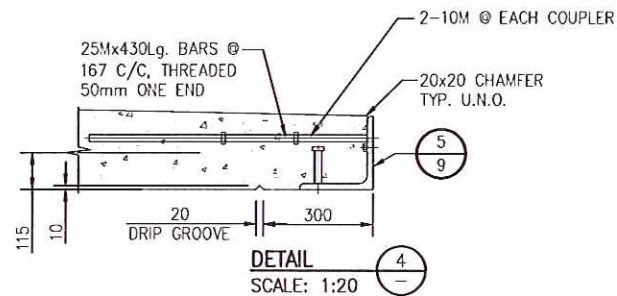
DETAIL 1
SCALE: 1:20



DETAIL 2
SCALE: 1:20



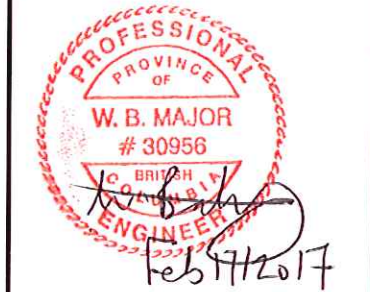
DETAIL 3
SCALE: 1:20



DETAIL 4
SCALE: 1:20

REFERENCE DRAWINGS		
DRAWING NO.	DRAWING DESCRIPTION/TITLE	REF.
1		1

NOTE:
1. FOR SPECIFICATIONS REFER TO DRAWING 17GP0030-000-1960-001
2. ESTIMATED MASS = 8180kg.



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REV	YY/MM/DD	DESCRIPTION	DRWN	APVD
2	17/02/17	ISSUED FOR CONSTRUCTION	TJB	DY
1	17/02/16	ISSUED FOR REVIEW	TJB	DY
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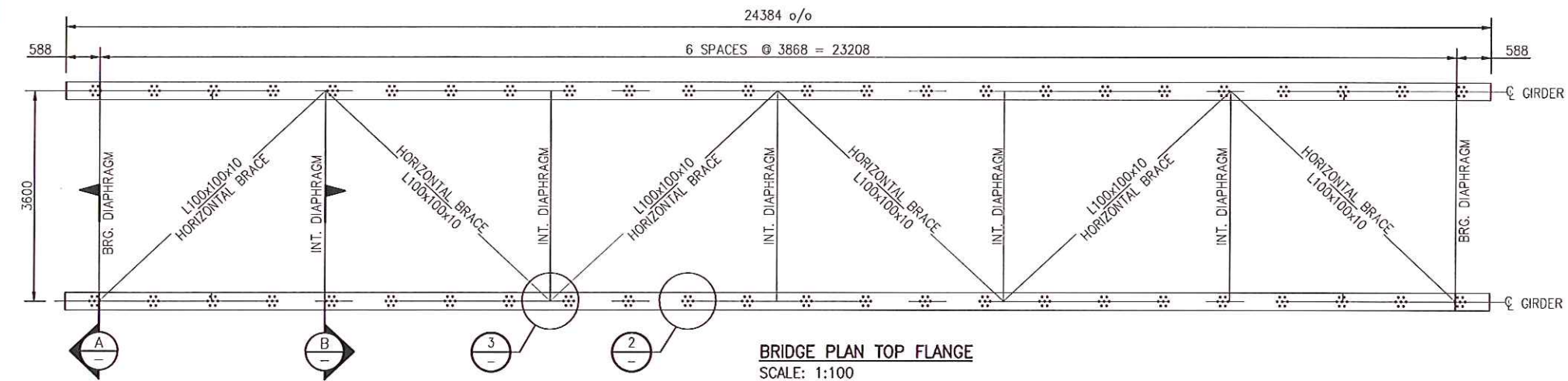
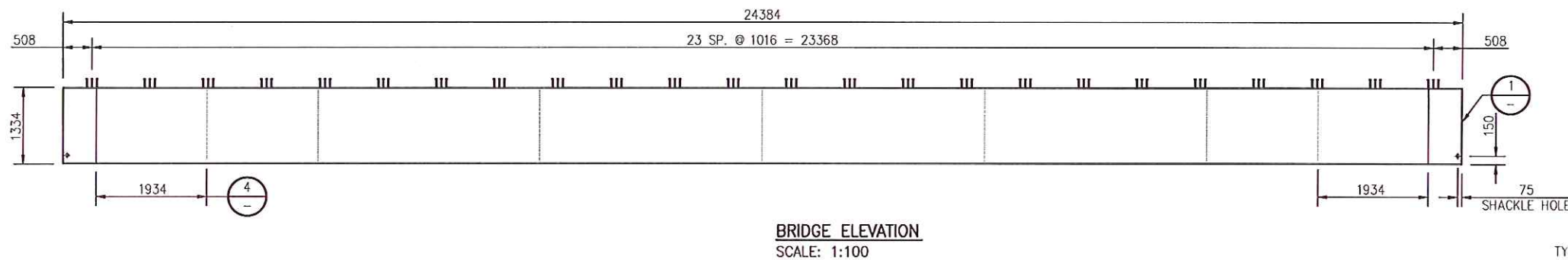
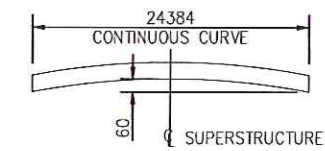
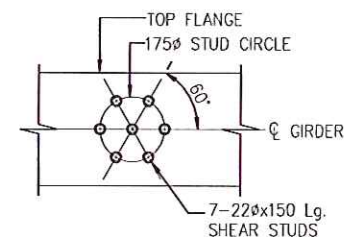
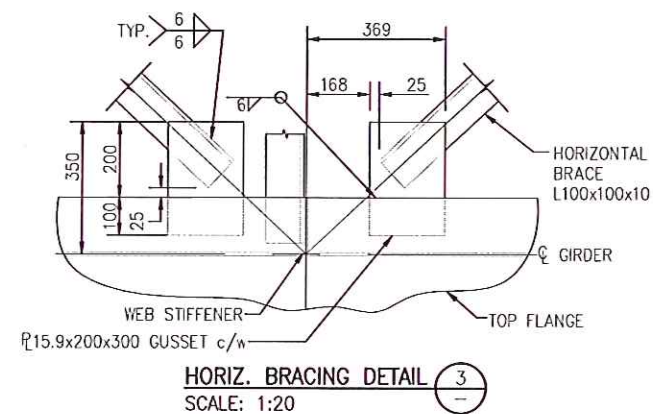
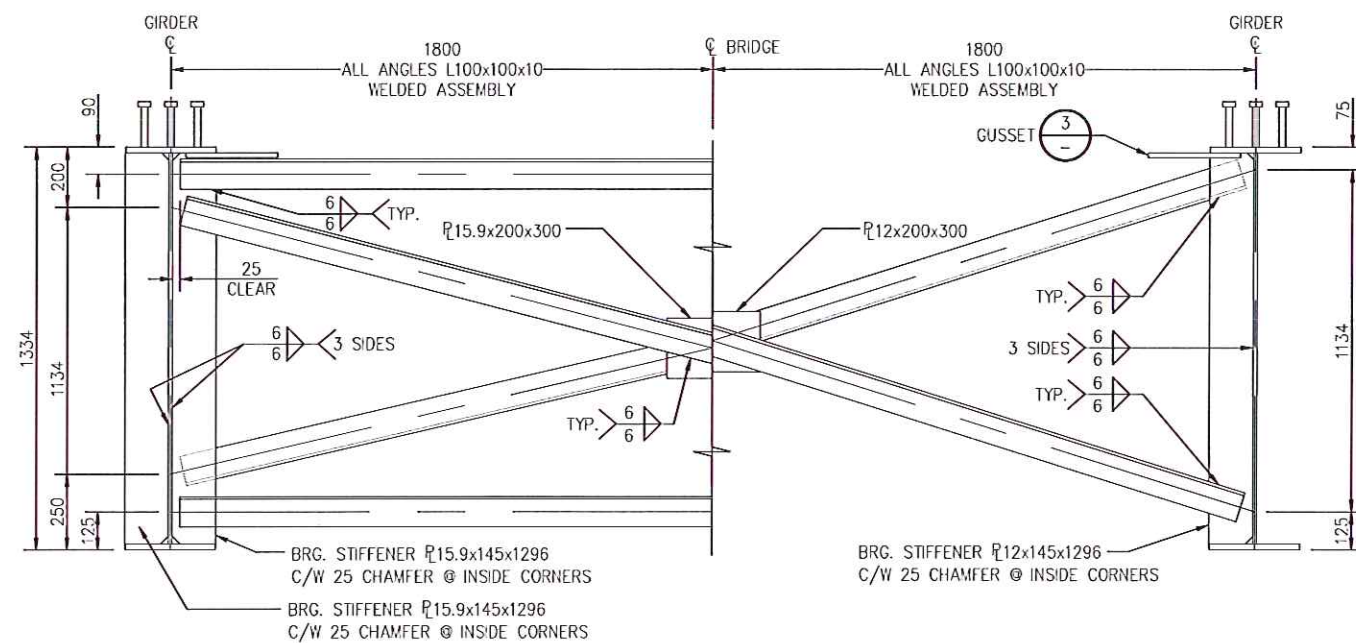
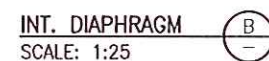
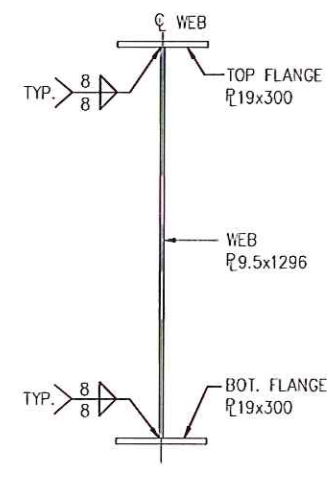
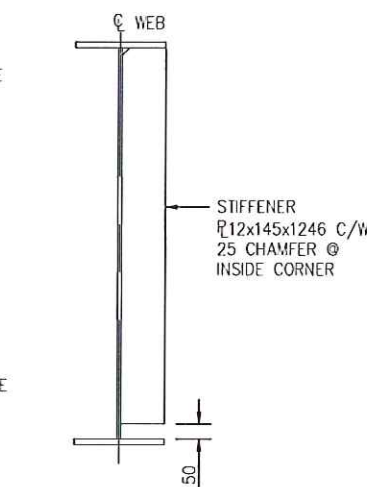
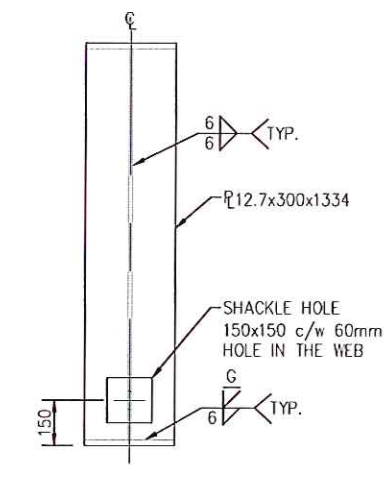


CLIENT NO.	-	DRWN:	TJB	DATE:	17/02/07
PROJECT NO.	17GP0030	DSGN:	DY	DATE:	17/02/07
DRAWING SIZE:	ANSI "B"	CHKD:	-	DATE:	-
SCALE:	AS NOTED	APVD:	-	DATE:	-

PROJECT:
**SEETA CREEK
24.384m STEEL/CONCRETE
L100 BRIDGE
MFR STRUCTURE ID: N2-146A**

TITLE:
**PRECAST CONCRETE DECK
PANEL L100 - MKB
3.048 x 4.876m
INTERIOR**

DWG NO.	17GP0030-000-1960-004	REV.	2
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[illegible]

NOTE:

1. FOR SPECIFICATIONS REFER TO DRAWING 17GP0030-000-1960-001
2. ESTIMATED MASS = 10950kg.
3. DESIGN VEHICLE L100



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1	17/02/17	ISSUED FOR CONSTRUCTION	TJB	DY	
0	17/02/07	ISSUED FOR CONSTRUCTION	TJB	WBM	
REV	YY/MM/DD	DESCRIPTION	DRWN	APVD	
CLIENT: 					

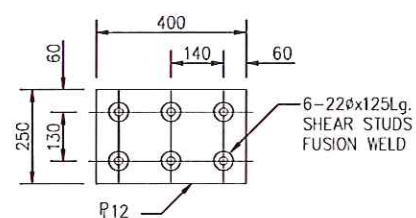


CLIENT NO.	-	DRWN:	TJB	DATE:	17/02/07
PROJECT NO.	17GP0030	DSGN:	DY	DATE:	17/02/07
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SCALE:	AS NOTED	APVD:	WBM	DATE:	17/02/07

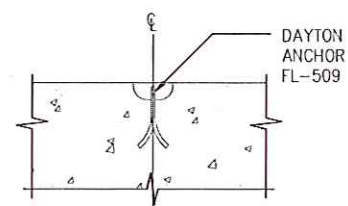
**SEETA CREEK
24.384m STEEL/CONCRETE
L100 BRIDGE
MFR STRUCTURE ID: N2-146A**

STEEL SUPERSTRUCTURE
L-100 24.384m Lg.

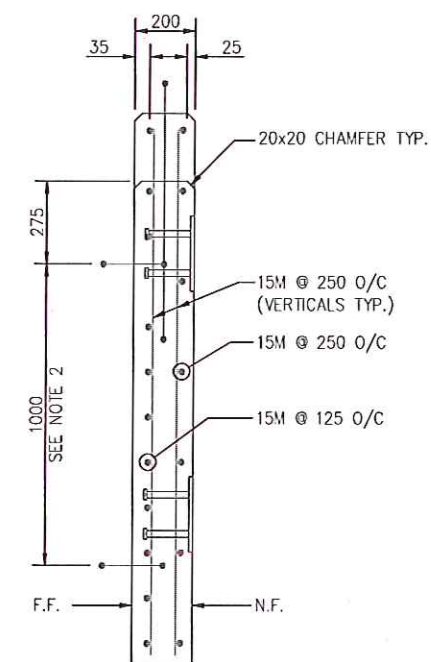
DWG NO:	REV:
17GP0030-000-1960-005	1



DETAIL 1
SCALE: 1:20



DETAIL - LIFTING INSERT (REAR FACE) (2)
SCALE: 1:20



SECTION A
SCALE: 1:25 —

[illegible]

NOTE:

1. FOR SPECIFICATIONS REFER TO DRAWING 17GP0030-000-1960-001
2. LIFTING DEVICES TO BE PROVIDED BY FABRICATOR AND APPROVED BY ENGINEER PRIOR TO FABRICATION.
3. ESTIMATED MASS = 7580kg.



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2	17/02/17	ISSUED FOR CONSTRUCTION	TJB	DY	
1	17/02/16	ISSUED FOR REVIEW	TJB	DY	
0	17/02/15	ISSUED FOR REVIEW	TJB	DY	
REV	YY/MM/DD	DESCRIPTION	DRWN	APVD	



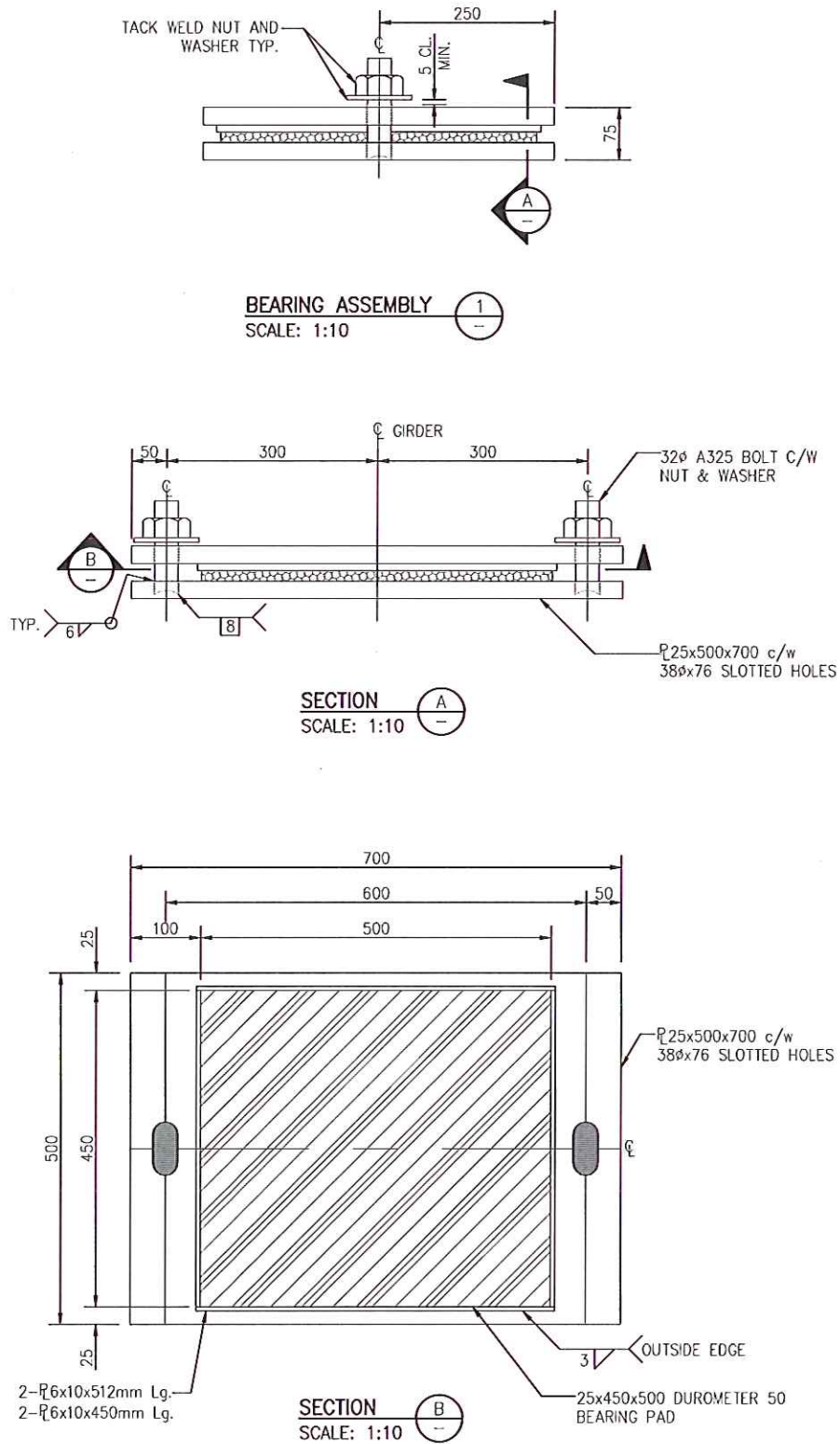
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DRAWING SIZE:	ANSI "B"	CHKD:	-	DATE:	-
SCALE:	AS NOTED	APVD:	-	DATE:	-

PROJECT: SEETA CREEK
24.384m STEEL/CONCRETE
L100 BRIDGE
MFR STRUCTURE ID: N2-146A

TITLE: **PRECAST CONCRETE
BALLAST WALL
1830mm DEEP**

DWG NO. 17GP0030-000-1960-006	REV. 2
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Date: 2017/02/17 | User: Tammy Jee | File: P:\GP\030\17GP0030\17GP0030-000-1960-000-1200-170217-IFC | Layout: 8 | Paper Size: 558.8mm x 431.8mm



REFERENCE DRAWINGS		
DRAWING NO.	DRAWING DESCRIPTION/TITLE	REF.
-	-	1

NOTE:
1. FOR NOTES AND SPECIFICATIONS REFER TO
DRAWING 17GP0030-000-1960-001



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REV	YY/MM/DD	DESCRIPTION	DRWN	APVD
1	17/02/17	ISSUED FOR CONSTRUCTION	TJB	DY
0	17/02/07	ISSUED FOR CONSTRUCTION	TJB	WBM



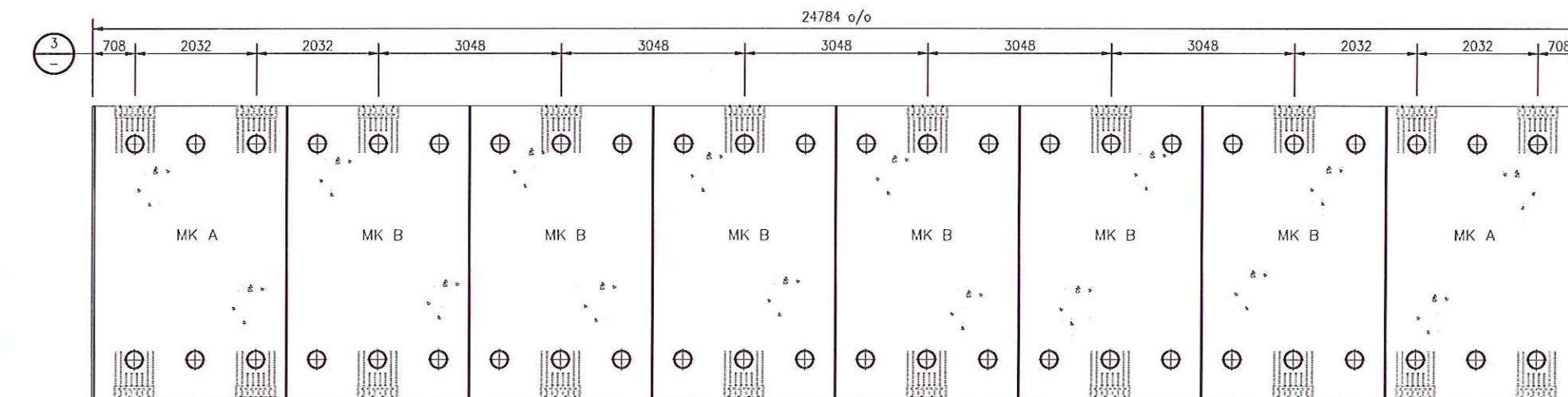
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SCALE:	AS NOTED	APVD:	WBM	DATE:	17/02/07

PROJECT:
**SEETA CREEK
24.384m STEEL/CONCRETE
L100 BRIDGE
MFR STRUCTURE ID: N2-146A**

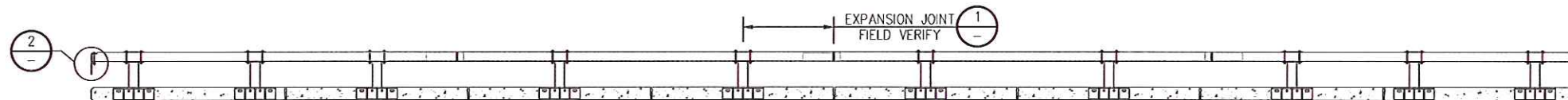
TITLE:
**BEARING ASSEMBLIES
450x500mm**

DWG NO.	17GP0030-000-1960-008	REV.	1
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Date: 2023/02/07 | User: Tammy Jear | File: P:\GP\2023\00017GP0030-000-1960-001-Production\17GP0030-000-1960-001-170217-IFC | Layout: 9 | Paper Size: 558.8mm x 431.8mm



RAILING PLAN
SCALE: 1:100



RAILING ELEVATION
SCALE: 1:100

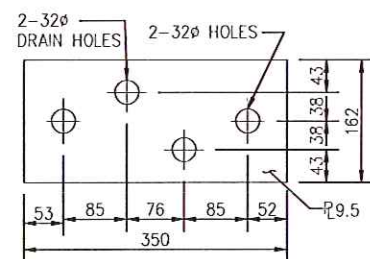
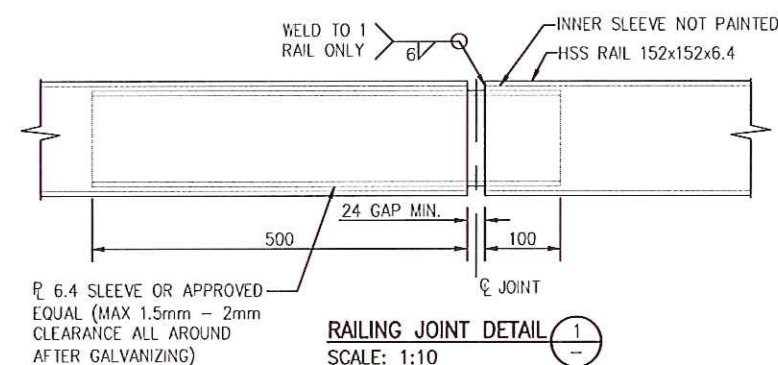
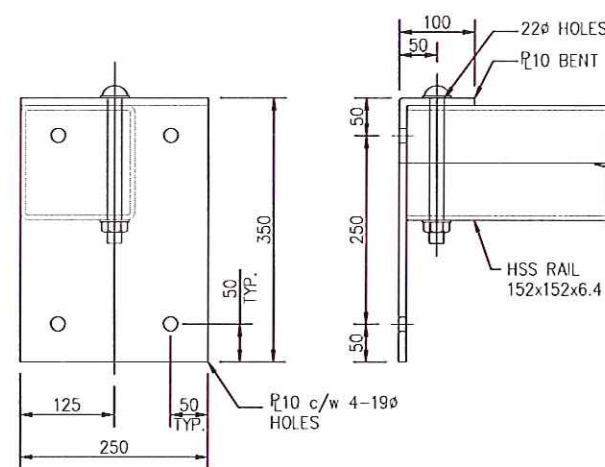


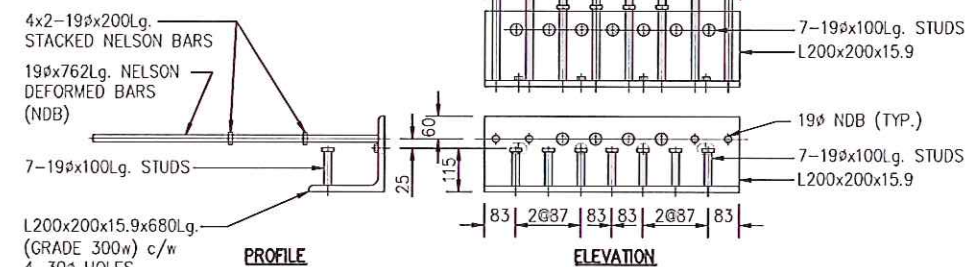
PLATE DETAIL
SCALE: 1:10



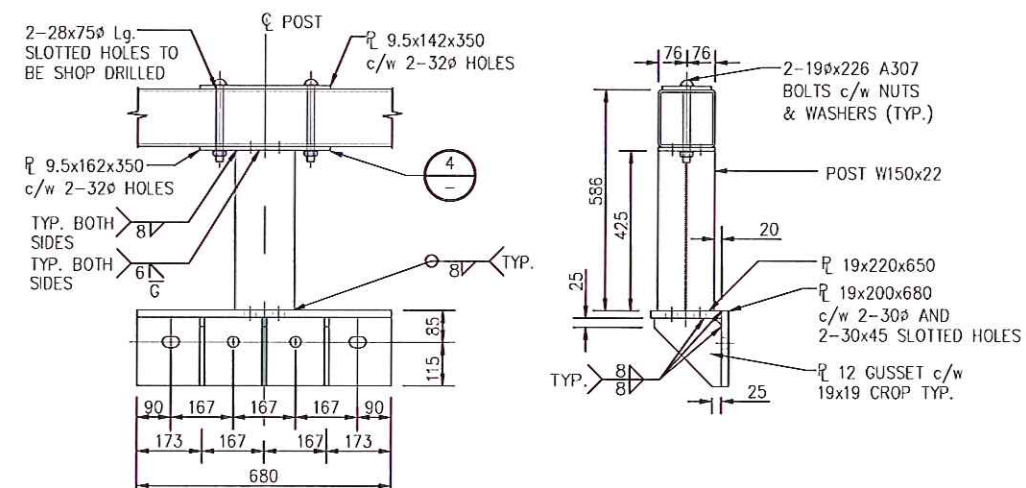
RAILING JOINT DETAIL
SCALE: 1:10



FRONT MOUNT DELIN. TAB DETAIL
SCALE: 1:10



DETAIL - INSERT
SCALE: 1:20



RAILING CONNECTION DETAIL
SCALE: 1:20

REFERENCE DRAWINGS		
DRAWING NO	DRAWING DESCRIPTION/TITLE	REF

NOTE:
1. FOR SPECIFICATIONS REFER TO DRAWING
17GP0030-000-1960-001



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REV	YY/MM/DD	DESCRIPTION	DRWN	APVD
2	17/02/17	ISSUED FOR CONSTRUCTION	TJB	DY
1	17/02/16	ISSUED FOR REVIEW	TJB	DY
0	17/02/15	ISSUED FOR REVIEW	TJB	DY



CLIENT NO:	-	DRWN:	TJB	DATE:	17/02/07
PROJECT NO:	17GP0030	DSGN:	DY	DATE:	17/02/07
DRAWING SIZE:	ANSI 'B'	CHKD:	-	DATE:	-
SCALE:	AS NOTED	APVD:	-	DATE:	-

PROJECT:
**SEETA CREEK
24.384m STEEL/CONCRETE
L100 BRIDGE
MFR STRUCTURE ID: N2-146A**

TITLE:
RAILING DETAILS

DWG NO:	17GP0030-000-1960-009	REV:	2
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