

DRAWING INDEX				
SHEET	DRAWING NAME	REVISION	DRAWING TITLE	DATE
1	20212319-04-3-100	0	DRAWING INDEX AND COVER SHEET	2021AUG27
2	20212319-04-3-101	0	GENERAL NOTES	2021AUG27
3	20212319-04-3-102	0	STRUCTURAL DETAILS - SHEET 1	2021AUG27
4	20212319-04-3-103	0	STRUCTURAL DETAILS - SHEET 2	2021AUG27
5	20212319-04-3-104	0	STRUCTURAL DETAILS - SHEET 3	2021AUG27

SURESPAN STRUCTURES LTD.

100' x 16' - L100

ALL STEEL PORTABLE BRIDGE

1112183900



Associated
Engineering



Platinum member

#29-QMSO-2021-298

ASSOCIATED ENGINEERING

QUALITY MANAGEMENT SIGN-OFF

Signature.....

Date Sept.16, 2021.....

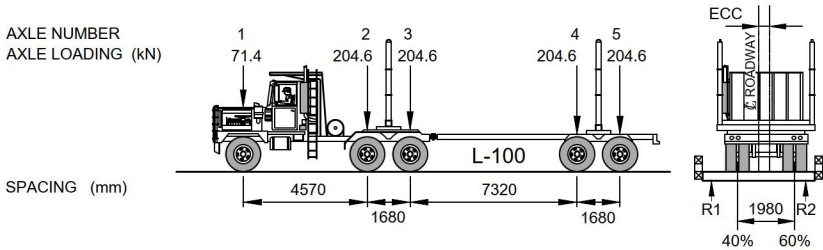
0	2021AUG27	I. SOLTANI	S. ABDELBAQI	ISSUED FOR CONSTRUCTION
REV	DATE	DESIGN	DRAWN	DESCRIPTION
DRAWING		REVISION	SHEET	
20212319-04-3-100		0		

GENERAL

- FOR INSTALLATION BY OTHERS; NO RESPONSIBILITY CAN BE ACCEPTED FOR WORK BY OTHERS.
- DEFINITIONS
 - MINISTRY REFERS TO THE MINISTRY OF FORESTS, LANDS & NATURAL RESOURCE OPERATIONS, BRITISH COLUMBIA.
- THE PROVISION OF FABRICATION AND FIELD INSPECTION SERVICES OF THIS BRIDGE IS NOT INCLUDED IN THE SCOPE OF SERVICES BEING PROVIDED BY ASSOCIATED ENGINEERING (B.C.) LTD.
- THESE DRAWINGS APPLY TO THE BRIDGE BEARING THE JOB NUMBER 1112183900 AND APPLIES ONLY TO THIS SINGLE STRUCTURE. DESIGN AND FABRICATION OF ADDITIONAL BRIDGES BASED ON THIS DESIGN IS PROHIBITED WITHOUT THE EXPRESS PERMISSION FROM ASSOCIATED ENGINEERING. ASSOCIATED ENGINEERING ACCEPTS NO LIABILITY FOR PROHIBITED APPLICATION OF THE CONTENT OF THESE DRAWINGS.
- DESIGN AND CONSTRUCTION TO CONFORM TO THE MINISTRY'S "FOREST SERVICE BRIDGE DESIGN AND CONSTRUCTION MANUAL" 1999 AND THE "FOREST ROAD ENGINEERING GUIDEBOOK" 2002.
- THIS ASSIGNMENT ONLY COVERS THE DETAILED DESIGN OF BRIDGE AND THE COMPONENTS SHOWN IN THE DRAWINGS.
- ANY DESIGN CHANGES PROPOSED DURING CONSTRUCTION SHALL REQUIRE PRIOR WRITTEN APPROVAL FROM ASSOCIATED ENGINEERING.

BRIDGE DESIGN

- CONFORM TO CAN/CSA-S6-14 (MODIFIED) AND THE MINISTRY'S STANDARD DRAWINGS STD-E-090-01 TO 02
- LOADING: BCFS L100 (90 680 kg G.V.W.) ECCENTRICITY IN ACCORDANCE WITH MINISTRY STANDARD DWG. STD-EC-000-001.
- DESIGN TRUCK:



- FATIGUE: BCFS L100 TRUCK CENTERED IN ROADWAY, 50:50 LOAD DISTRIBUTION, DYNAMIC LOAD ALLOWANCE INCLUDED 500,000 CYCLES.
- MAXIMUM LIVE LOAD DEFLECTION: SPAN/350 (BCFS - L150 TRUCK CENTERED IN ROADWAY; 50-50 LOAD DISTRIBUTION; INCLUDES DYNAMIC LOAD ALLOWANCE.
- GUARDRAIL DELINEATES DECK EDGE ONLY.

STEEL PORTABLE STRUCTURE

- BRIDGE TO BE FABRICATED IN ACCORDANCE WITH MINISTRY'S BRIDGE DESIGN AND CONSTRUCTION MANUAL (INCLUDING LATEST REVISIONS NOTED ON THE MINISTRY'S WEBSITE) AND THE CONTRACT SPECIFICATIONS.
- NAME PLATE: ALL BRIDGES SHALL HAVE THEIR STRUCTURE NUMBER, DATE OF FABRICATION, LOAD RATING, MANUFACTURERS NAME PERMANENTLY MARKED ON AT LEAST ONE SIDE OF THE STRUCTURE (MIN. HEIGHT OF LETTERING 50 MM).
- STEEL FABRICATION: FABRICATOR TO BE CERTIFIED FOR DIVISION 1 OR 2 IN ACCORDANCE WITH CSA W47.1
- STEEL: CSA G40.21M GRADE 350AT CAT 3 (STEEL PLATE)
GRADE 350A (ROLLED SECTIONS)
GRADE 350W (TUBE)
- BOLTS: ASTM F3125 GRADE A214 TYPE 3 INSTALLED WITH ACCORDANCE WITH S6 USING TURN - OF - THE NUT METHOD.
- WELDING:
 - ALL WELDS TO BE COMPLETED IN ACCORDANCE WITH CSA W59.
 - ALL BUTT WELDS TO BE INSPECTED BY ULTRASONIC EXAMINATION IN ACCORDANCE WITH CSA W59.
- WEARING SURFACE: SURFACE PREPARATION SANDBLAST TO SSPC-SP6, COATING AMERLOCK 400 (OR EQUIVALENT EPOXY COATING APPROVED BY ENGINEER) C/W 16 GRIT SAND TO PROVIDE ANTI-SKID WEARING SURFACE, IN ACCORDANCE WITH CONTRACT SPECIFICATIONS.

GUARDRAIL & POSTS

- STEEL SURFACE PREPARATION: BLAST CLEAN TO SSPC SP-6
- PAINT: - PAINT RAILS AND GUARDRAIL POSTS IN ACCORDANCE WITH PROJECT SPECIFICATIONS.



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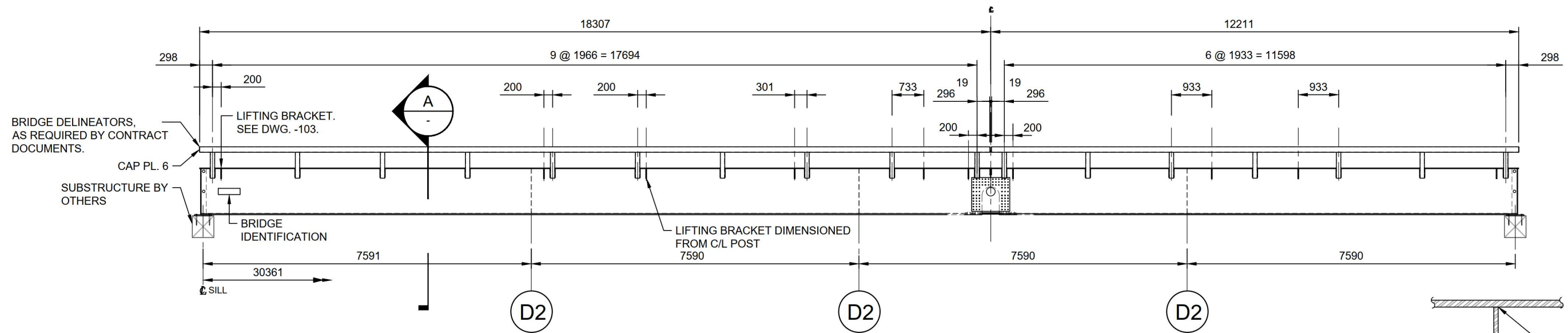
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SCALE: AS SHOWN

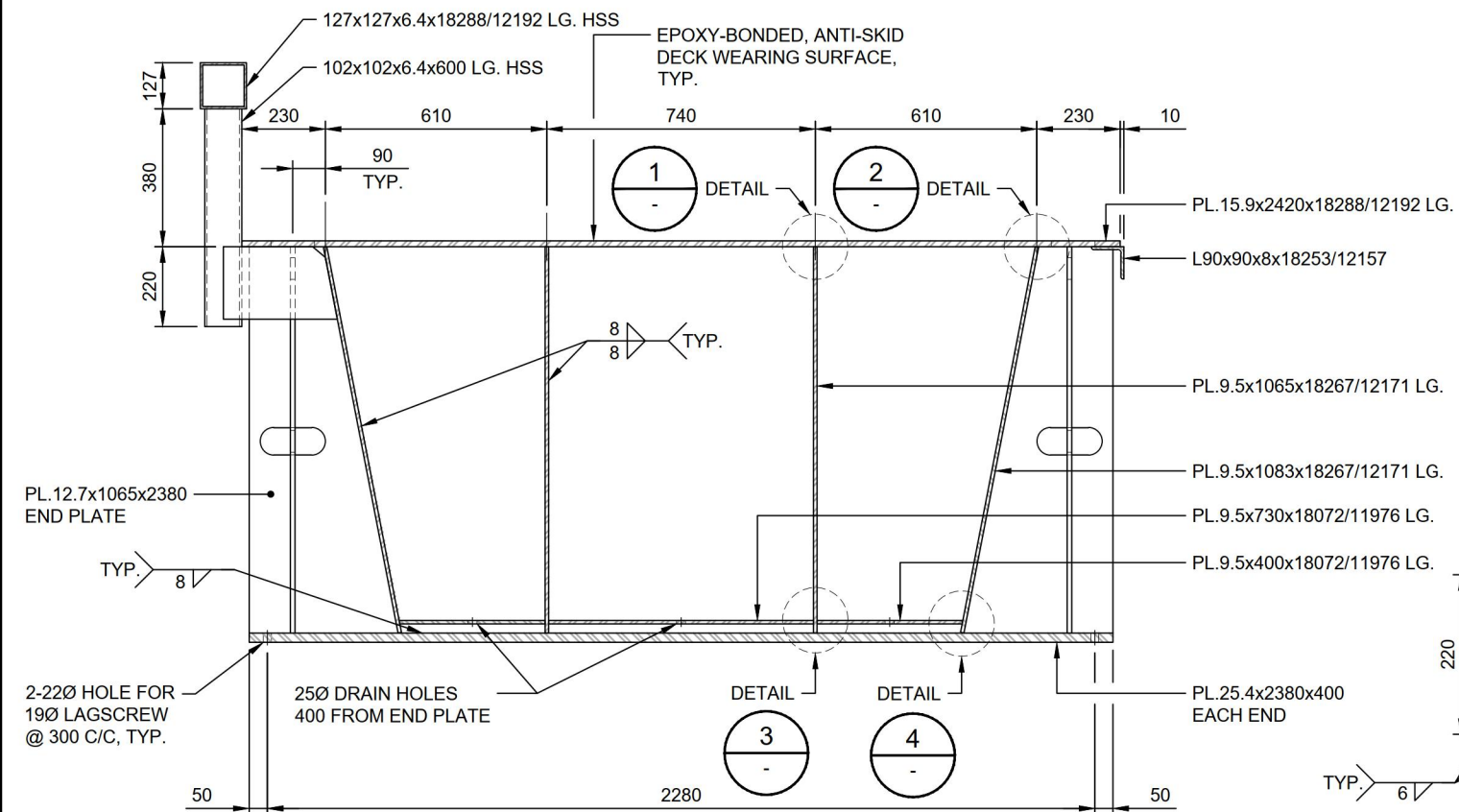


GENERAL NOTES

DRAWING	REVISION	SHEET
20212319-04-3-101	0	



ELEVATION 1:100



A SECTION 1:20

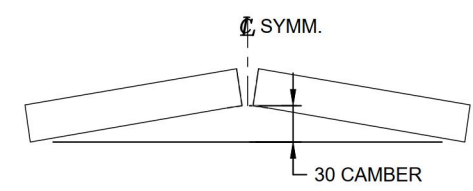
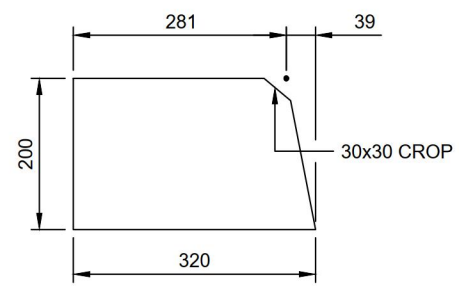
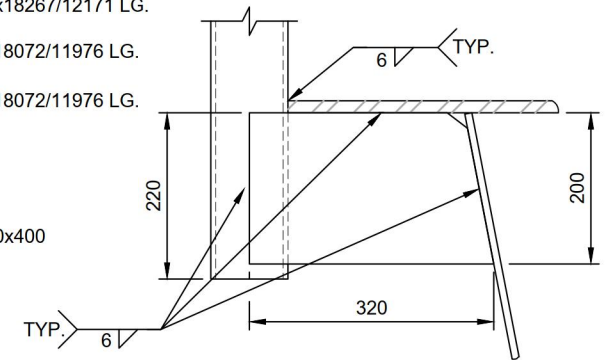


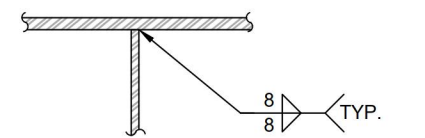
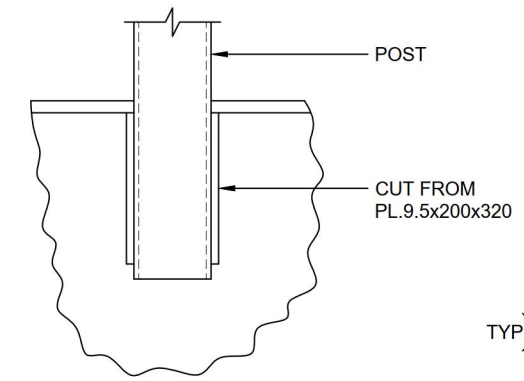
DIAGRAM N.T.S.
PRECAMBER



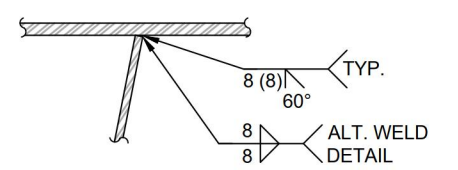
DETAIL 1:10
CONNECTION PLATE E1



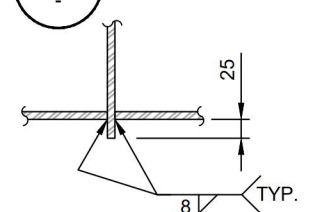
DETAIL 1:10
POST CONNECTION



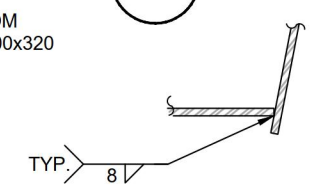
1 DETAIL 1:10



2 DETAIL 1:10



3 DETAIL 1:10



4 DETAIL 1:10



74333
2021-09-15

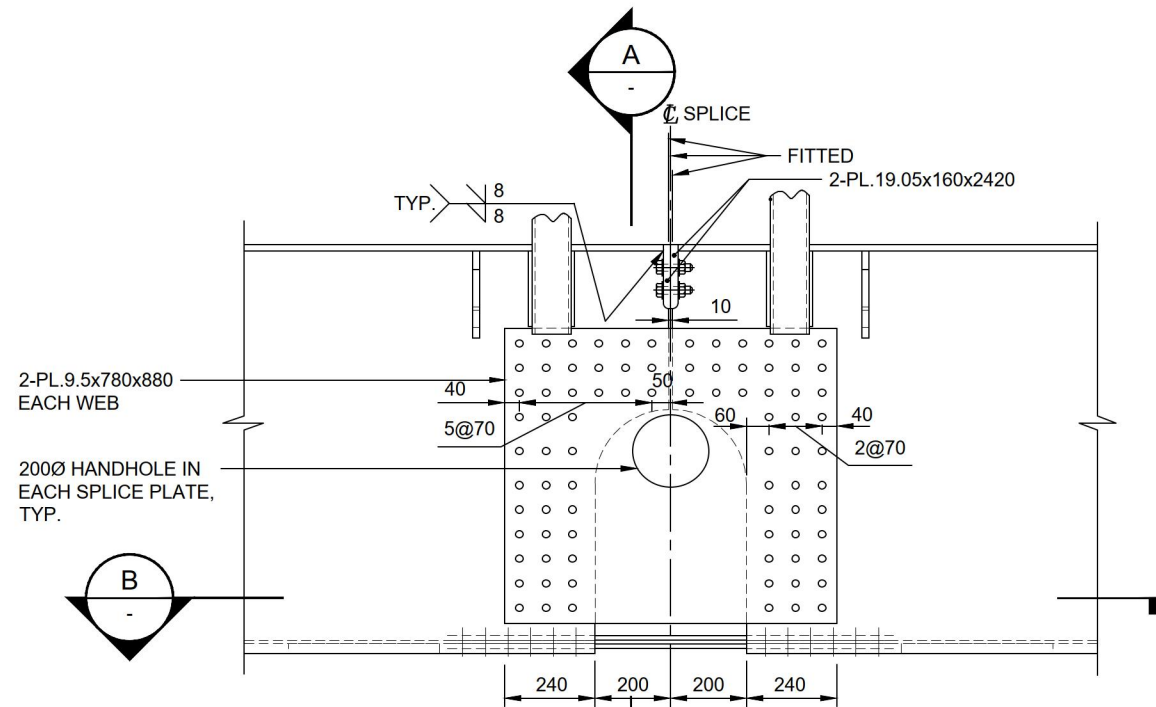
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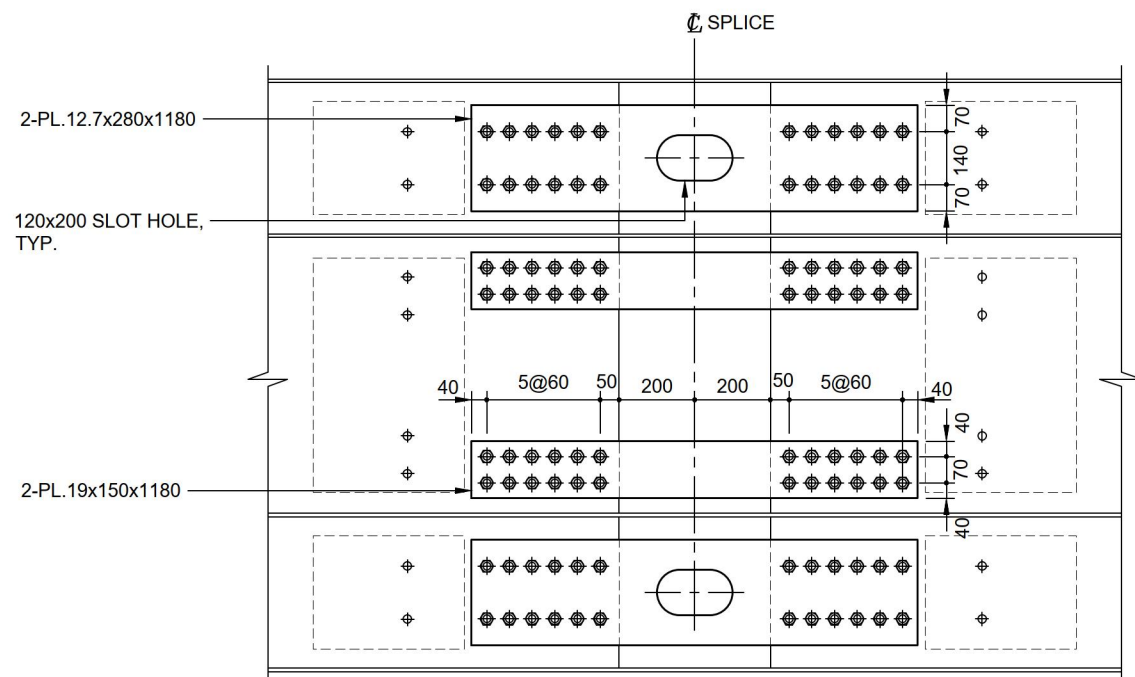


STRUCTURAL DETAILS - SHEET 1		
DRAWING	REVISION	SHEET
102	0	

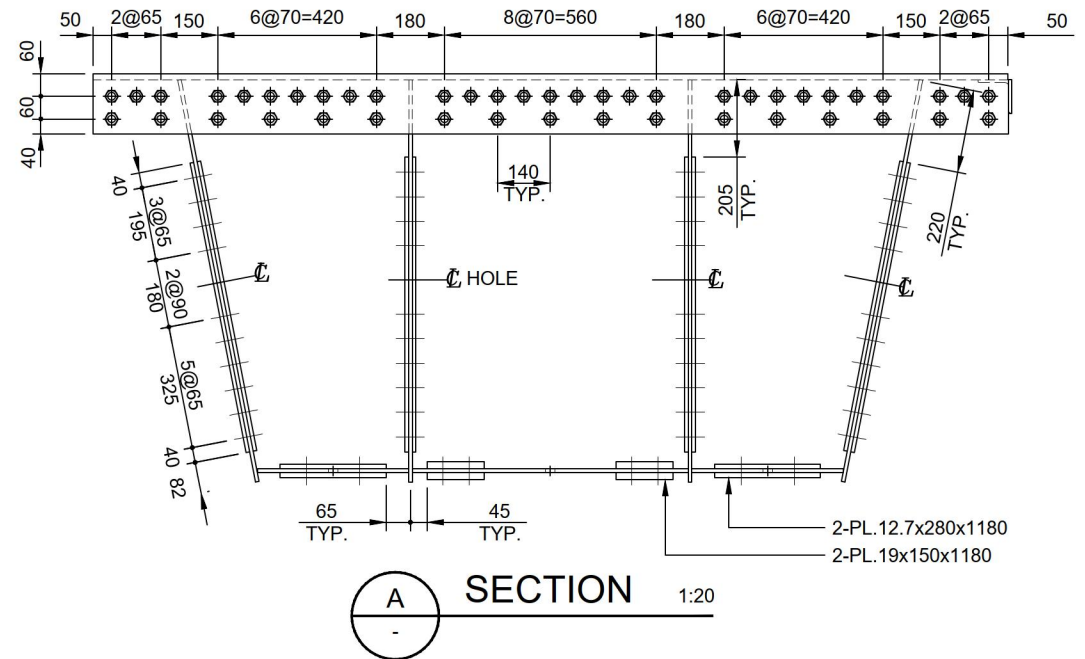




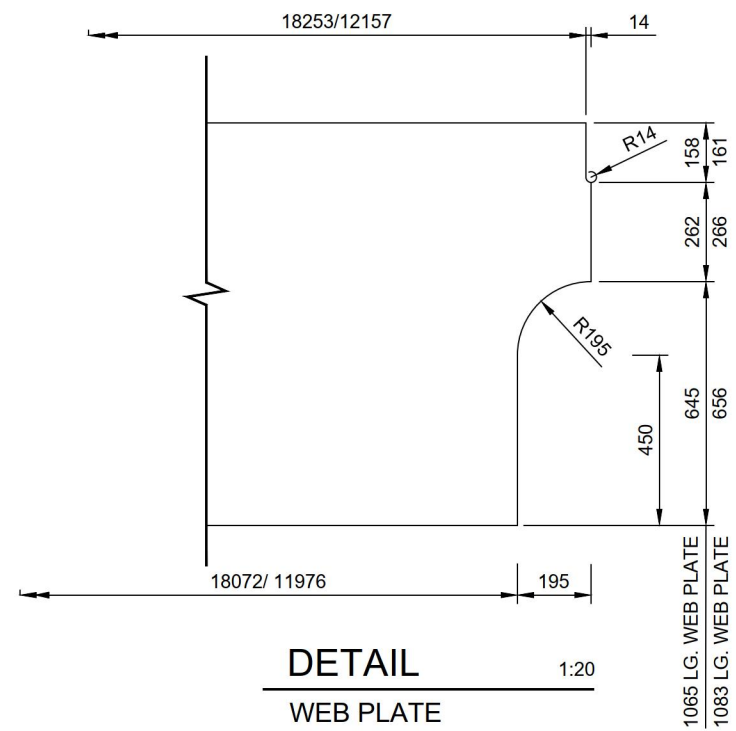
DETAIL
1:20
SPLICE



SECTION
1:20
B



NOTE:
USE NEW BOLTS WHEN REASSEMBLING
BOLTED SPLICE AND FULLY TORQUE BOLTS.



NOTE:
BOLT HOLES NOT SHOWN.
SEE SPLICE DETAILS



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STRUCTURAL DETAILS - SHEET 3

DRAWING	REVISION	SHEET
104	0	