

3-2-2-8 迂回路計画

橋梁は現橋位置に架設するため、現在交通に対する迂回路を少なくとも1車線分確保する必要がある。また、工事用栈橋を別途建設することはしないため、施工中の建設機械の移動の際も迂回路を経由することになる。

テオウマ橋は下流側に迂回路を設け、PWDが所有しているベイリー橋を借用して仮橋(L=30m)を設置する。仮橋の撤去後は整備を施して返却することとするが、PWDが所有している木床版は供用中の損耗が激しいため使用せずに、仮設計画の中で木床版を調達する計画とする。レンタパオ橋は下流側に迂回路を設け、仮設計画の中で木床版とI形鋼を調達して仮橋(L=12m)を設置する。

仮橋は、通常水位に対して50cm程度の余裕を持って設置し、迂回路の盛土高を抑える。橋台は土砂の流出による水質汚濁を防止するため、蛇籠を積み上げて橋台とする。迂回路は工事完了時に撤去して現況復旧を行う。

3-2-3 基本設計図

基本計画の基づき最終的に提案された計画の概要は次のとおりである。

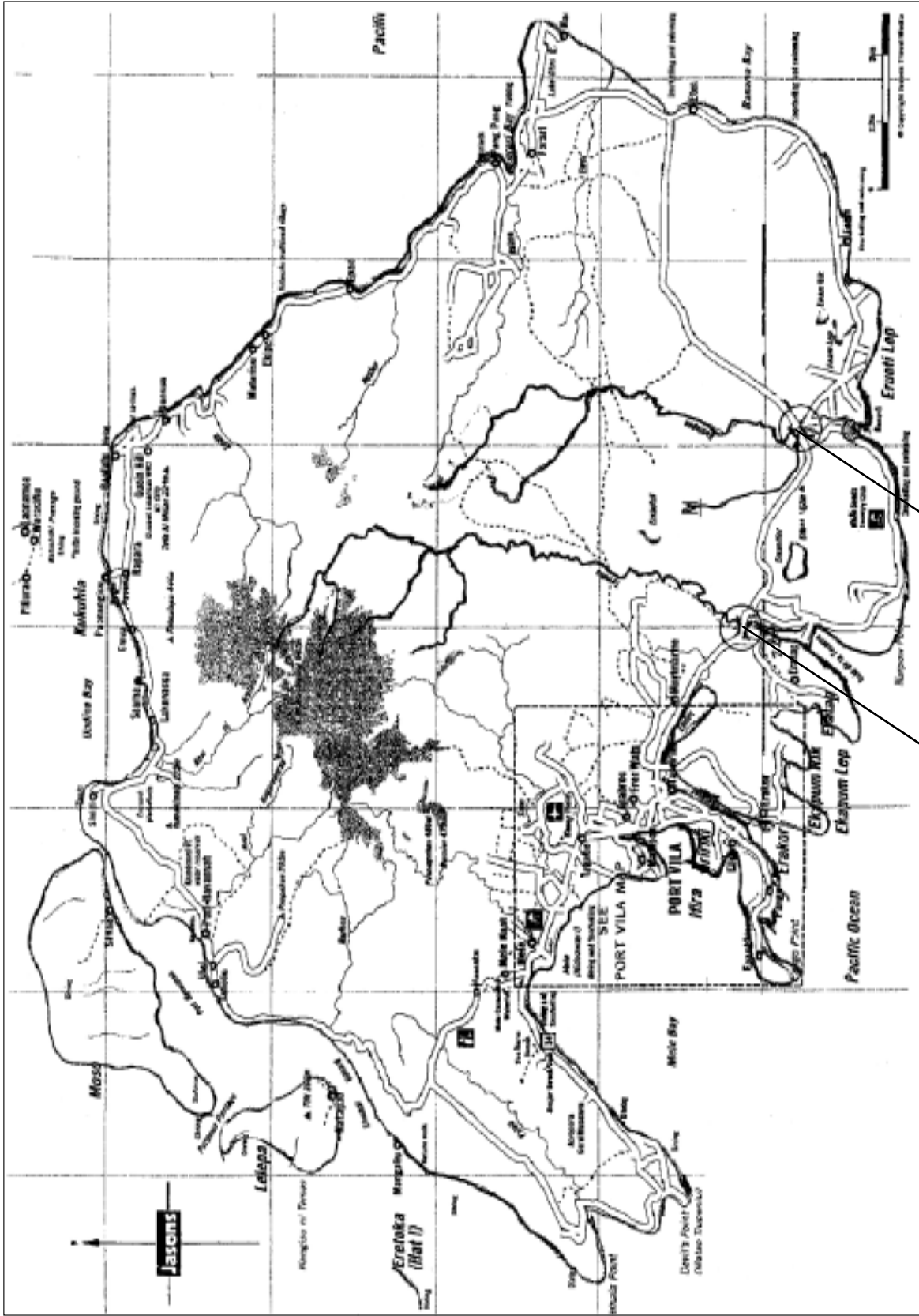
工 種	内 容
迂回道路設置／撤去	迂回道路139m+96m、仮橋30.5m+12m
現橋撤去	テオウマ橋、レンタパオ橋取壊し
橋梁本体	基礎工、橋台躯体工、鋼桁製作、上部工組立て、架設、橋面処理（瀝青表層処理）等
取付道路	擦り付け延長230m+200m、車道幅員7.0～6.0m 路盤工（コーラル材）、表層工（瀝青表層処理）
付帯工事	護岸工、路面標示、ガードレール等

本計画の基本設計図面を次頁以降に示す。

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LOCATION MAP



TEOUMA BRIDGE

RENTAPAO BRIDGE



GOVERNMENT OF THE REPUBLIC OF VANUATU
PUBLIC WORKS DEPARTMENT

JAPAN INTERNATIONAL COOPERATION AGENCY
KATAHIRA & ENGINEERS INTERNATIONAL

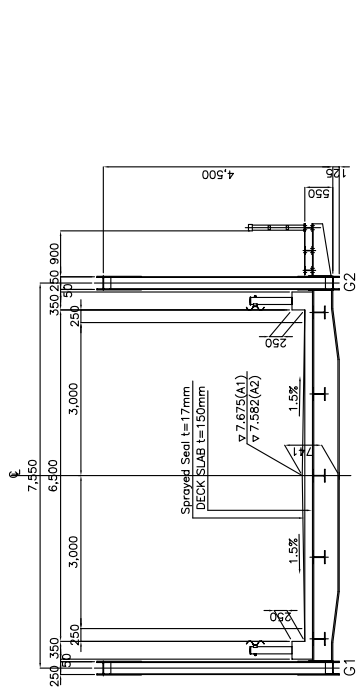
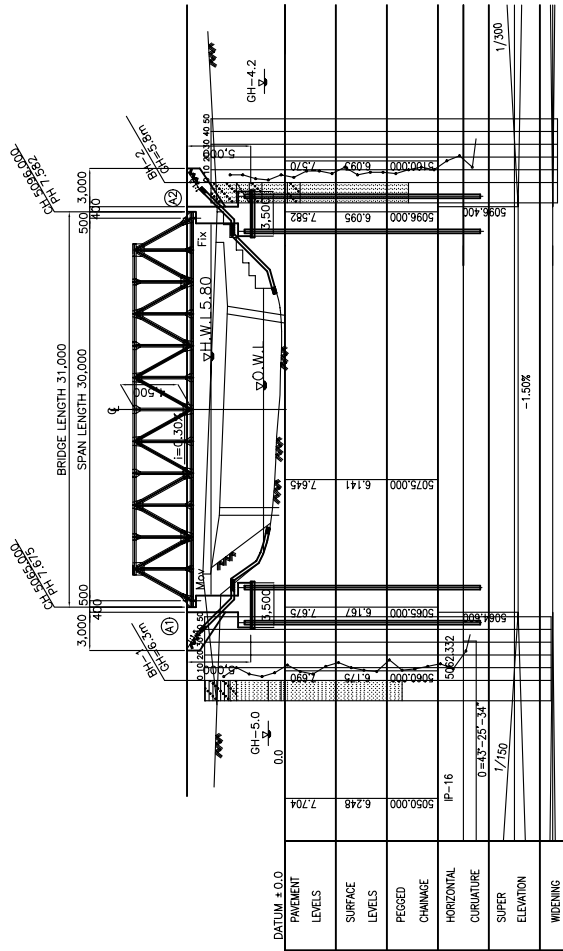
PROJECT: BASIC DESIGN STUDY ON THE PROJECT FOR
THE REHABILITATION OF BRIDGES
ON THE RING ROAD IN THE EFATE ISLAND

TITLE: LOCATION MAP

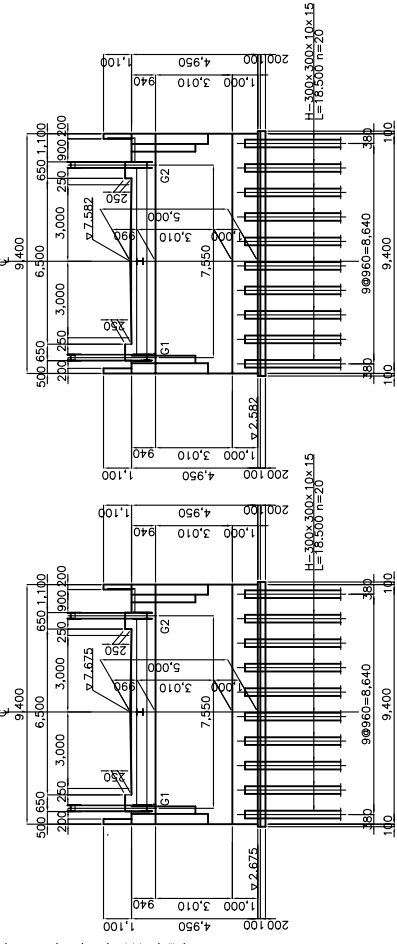
DRAWING NO: 1

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GENERAL VIEW (TEOUMA BRIDGE)



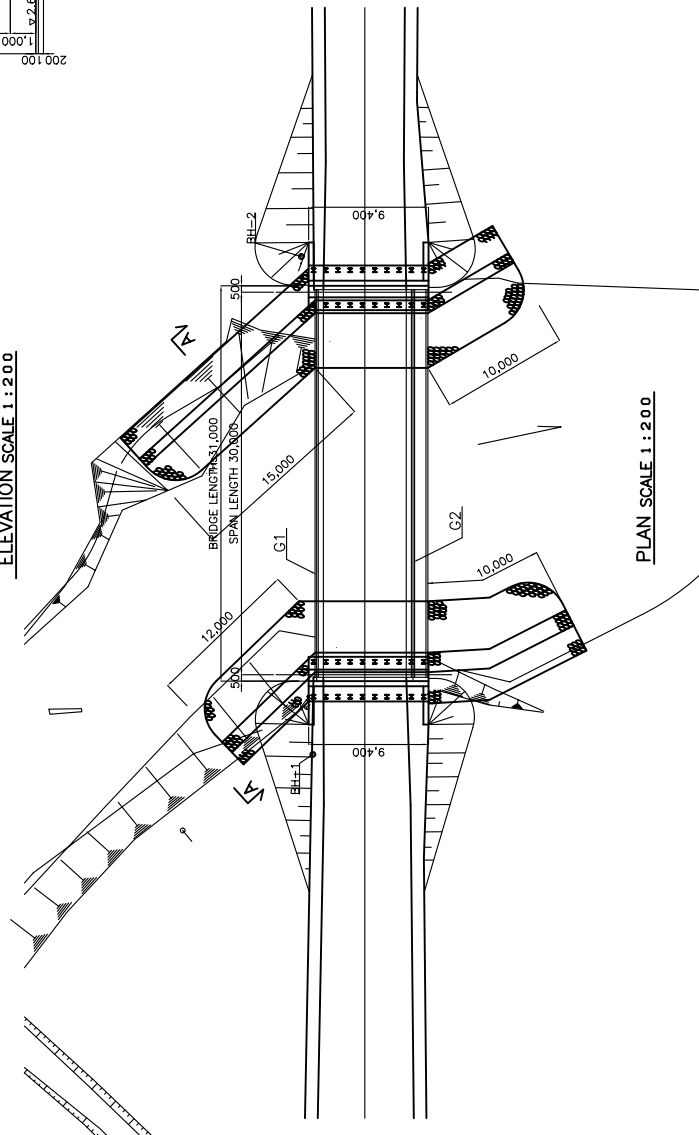
BRIDGE CROSS SECTION SCALE 1:150



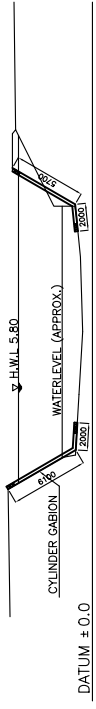
A1 ABUTMENT SCALE 1:100

A2 ABUTMENT SCALE 1:100

ELEVATION SCALE 1:200



PLAN SCALE 1:200



A-A

RIVER SECTION SCALE 1:200

Galvanized Chain Link Net (Wire Dia=3.2mm, Mesh Size=100x100)



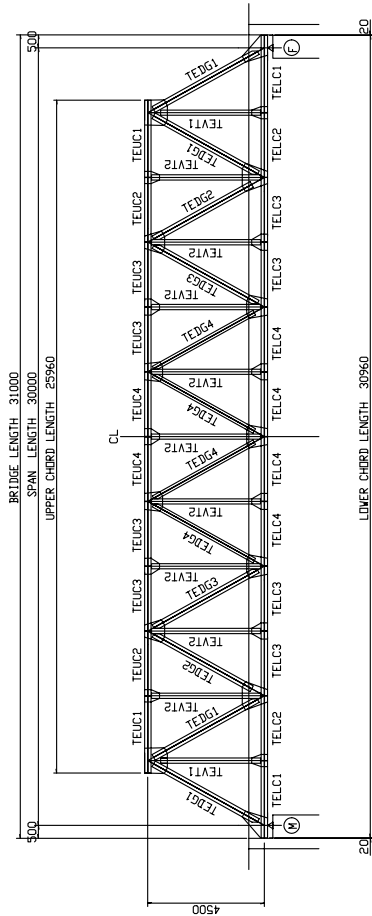
Bottom & Top (Dia. 450)

CYLINDER GABIION DETAIL (non-scale)

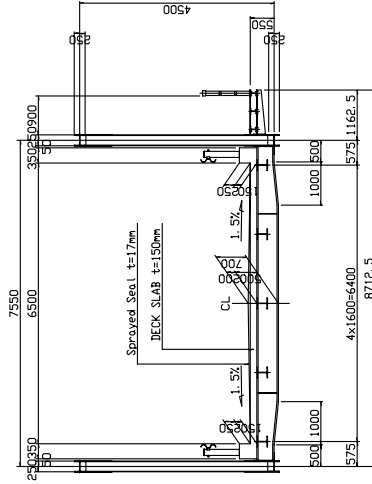
Note
All dimensions are shown in millimeter unless otherwise indicated.

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	<p>Scale: 1:200</p>			

GENERAL ARRANGEMENT TEOUMA BRIDGE



ELEVATION SCALE 1:100



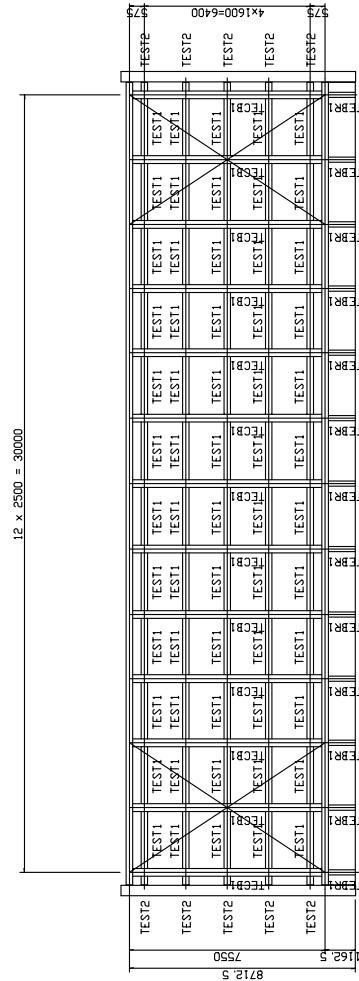
CROSS SECTION SCALE 1:60

Design Criteria of Superstructure

1. Type of Superstructure
Warren Type Pony Truss
2. Bridge Length
31.0m
3. Span Length
30.0 m
4. Width of Bridge
Total Width = 6.713 m
Road Width = 6.500 m
5. Design Live Load
A-Live Load
6. Pavement
By Japan Road Association)
7. Deck Slab
Deck Slab t = 17 mm
8. Horizontal Seismic Coefficient = 0.26
(for the design of Bearing Anchor Bolt and Unseating Prevention)
9. Steel Material
SM490, SM400, SS400, F8T
10. Protection Coating
Hot Dip Galvanizing (Str. Member: HDZ 55, Deck: HDZ 35)

MARK	TYPE	SIZE (mm)	LENGTH (mm)	MATERIAL
TEUC1	H	250x250x 9x14	2595	SS400
TEUC2	H	250x250x 9x14	2490	SS400
TEUC3	H	250x250x 9x14	2490	SM490
TEUC4	PL	250x16	2490	SM490A
TEUC4	PL	218x 9	2490	SM490A
TELC1	H	250x250x 9x14	2655	SS400
TELC2	H	250x250x 9x14	2490	SS400
TELC3	H	250x250x 9x14	2490	SM490
TELC4	PL	250x16	2490	SM490A
TELC4	PL	218x 9	2490	SM490A
TEDC1	PL	250x16	4600	SM490A
TEDC1	PL	218x 9	4600	SM490A
TEDC2	H	250x250x 9x14	4290	SS400
TEDC3	H	250x250x 9x14	4560	SS400
TEDC4	H	200x200x 8x12	4420	SS400
TEVT1	H	200x200x 8x12	3860	SS400
TEVT2	H	200x200x 8x12	4210	SS400

MARK	TYPE	SIZE (mm)	LENGTH (mm)	MATERIAL
TECB1	PL	300x30	7264	SM490B
TECB1	PL	440x11	7264	SM490A
TEST1	H	250x250x 9x14	2450	SM490
TEST2	H	250x250x 9x14	455	SM490
TEBR1	H	400x200x8x13	1020	SM400
TELL1	L	90x 90x10x10	4115	SS400

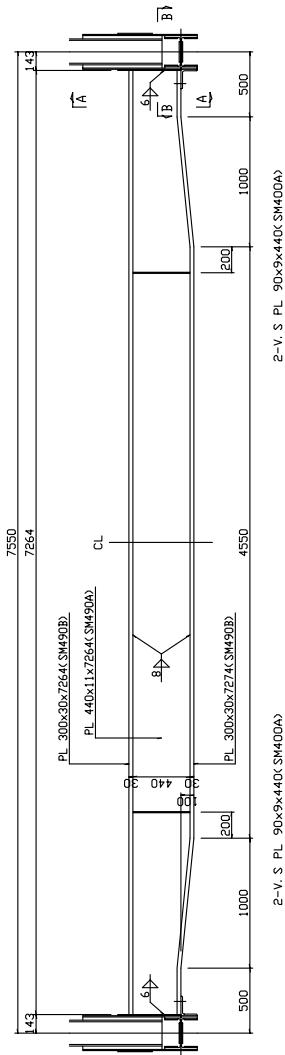


PLAN SCALE 1:100

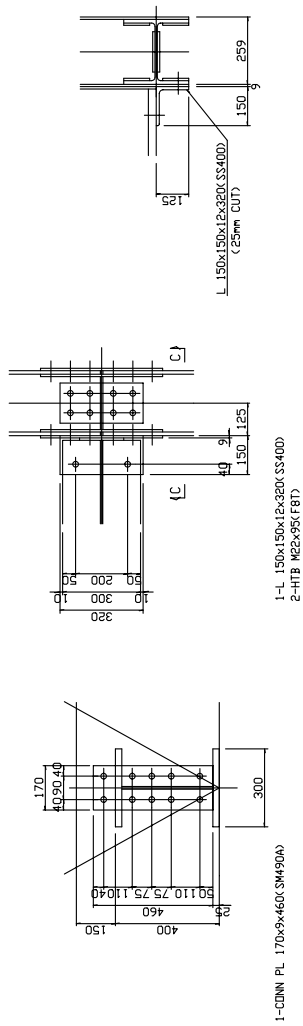
Note
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			DRAWING No: 3

CROSS BEAM, STRINGER AND LOWER LATERAL



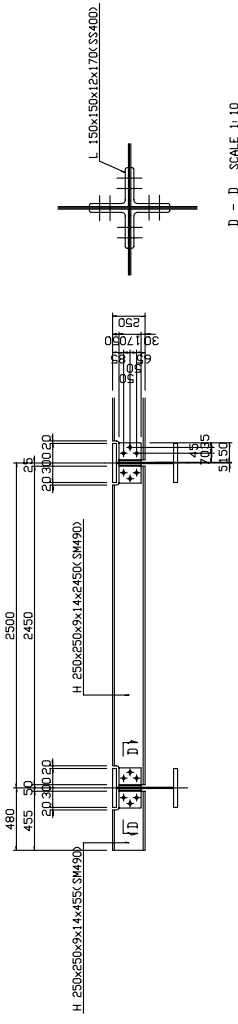
CROSS BEAM SCALE 1:20



A - A SCALE 1:10

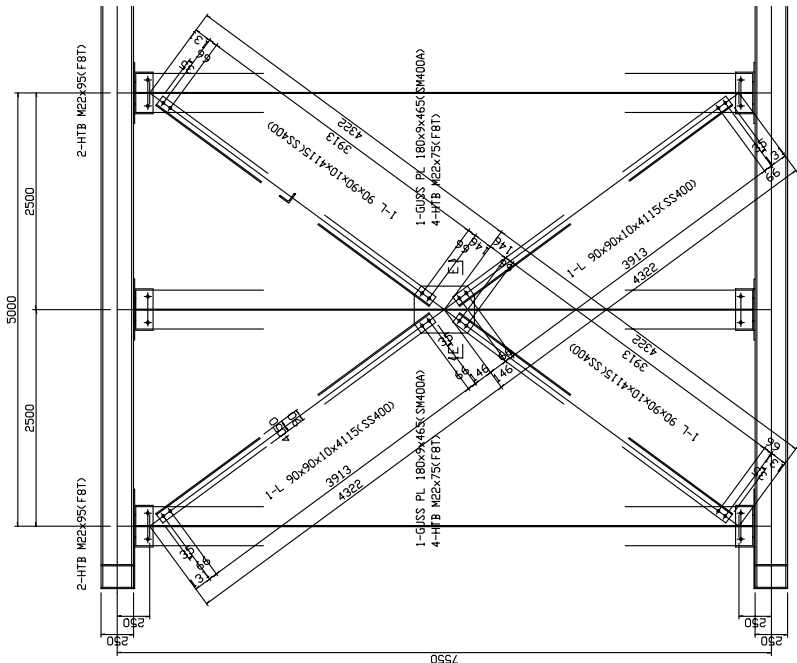
B - B SCALE 1:10

C - C SCALE 1:10

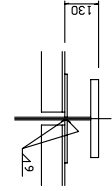


STRINGER SCALE 1:20

D - D SCALE 1:10




LOWER LATERAL SCALE 1:20



E - E SCALE 1:10

Note
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		TITLE : CROSS BEAM , STRINGER AND LOWER LATERAL (TECUMA BRIDGE)	DRAWING NO : 6

