

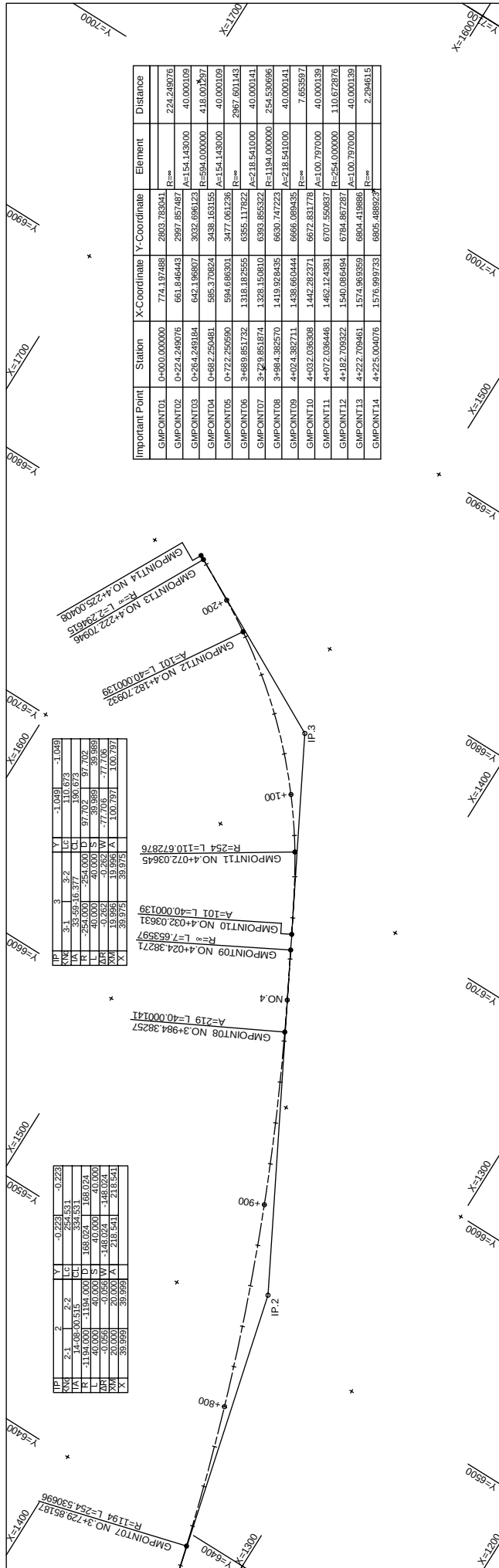
HORIZONTAL ALIGNMENT REFERENCE (3) SCALE 1/1000

Diagram illustrating a horizontal alignment reference (3) with a scale of 1/1000. The alignment is shown as a dashed line with stationing markers from 0 to 700. Key points and data are labeled:

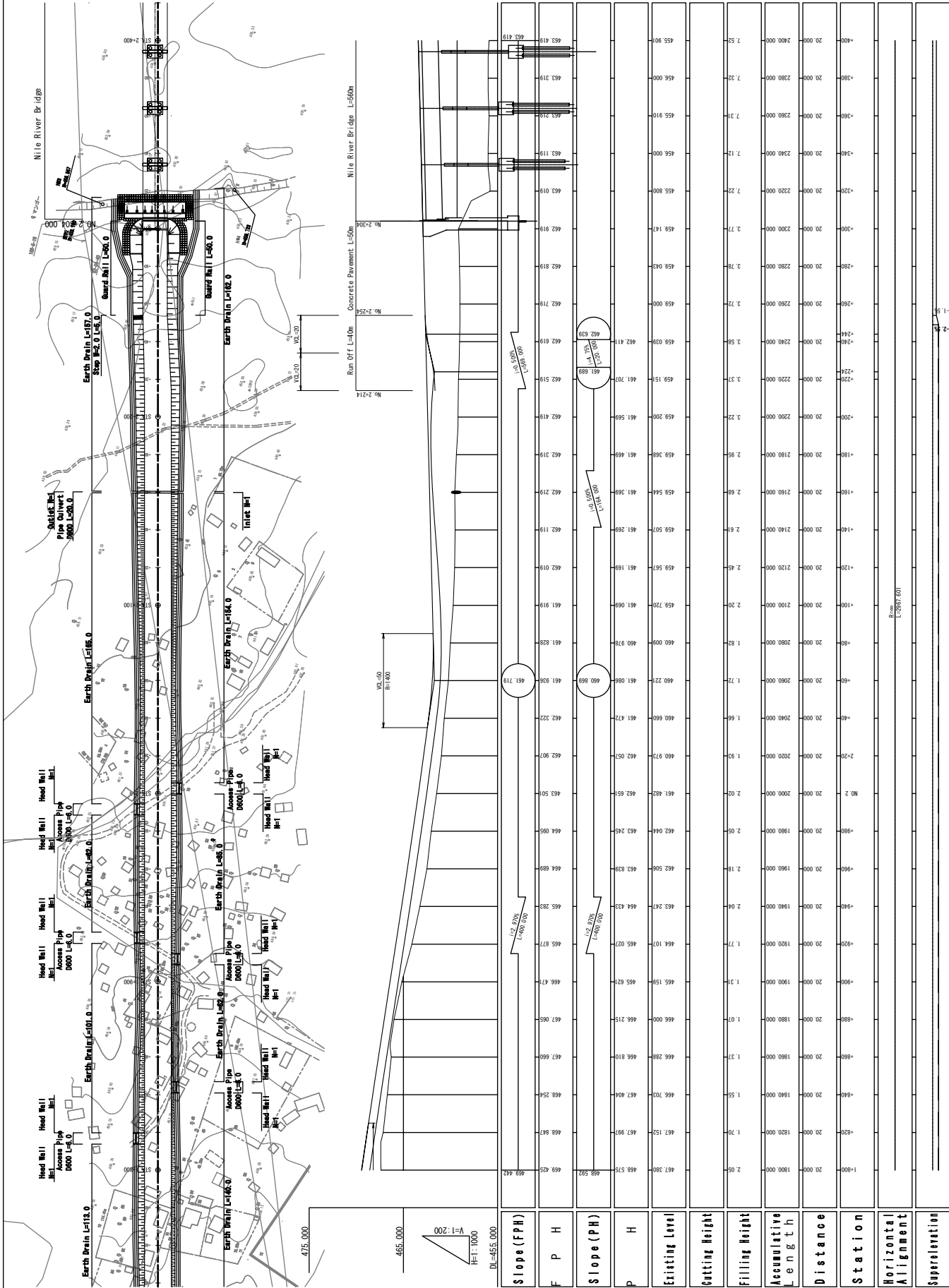
- GPPOINT06** NO.3+689.85173: A=219 L=400.000141
- GPPOINT07** NO.3+729.85187: R=1194 L=254.530696
- NO.3** at station 0.
- Stationing markers** at 100, 200, 300, 400, 500, 600, and 700.
- Geometric data points** (X, Y coordinates):
 - At station 0: X=1300, Y=5800
 - At station 100: X=1200, Y=5700
 - At station 200: X=1300, Y=5900
 - At station 300: X=1400, Y=6000
 - At station 400: X=1500, Y=6100
 - At station 500: X=1600, Y=6200
 - At station 600: X=1700, Y=6300
 - At station 700: X=1800, Y=6400
- Equations** defining the alignment:
 - $X=1300$ at station 0
 - $X=1200$ at station 100
 - $X=1300$ at station 200
 - $X=1400$ at station 300
 - $X=1500$ at station 400
 - $X=1600$ at station 500
 - $X=1700$ at station 600
 - $X=1800$ at station 700

	TP	2-1	2	Y	
Q	40,000			-0.223	-0.223
R	40,000	2-2		Lc	254.531
S	40,000	14.08-0.515		Cl	334.531
T	-1194.000	-1194.000		D	168.024
U	40,000	-40,000		S	40,000
V	40,000	-0.956		W	-148.024
X	39,999	20,000		A	218.541
Y	39,999	39,999			218.541

	TP	3	Y
K	3-1	3-2	Lc
A	33-59	16-37	Cl
R	-254,000	-254,000	S
L	40,000	40,000	S
ΔR	-0.262	-0.262	W
ΔL	19,996	19,996	A
X	39,975	39,975	



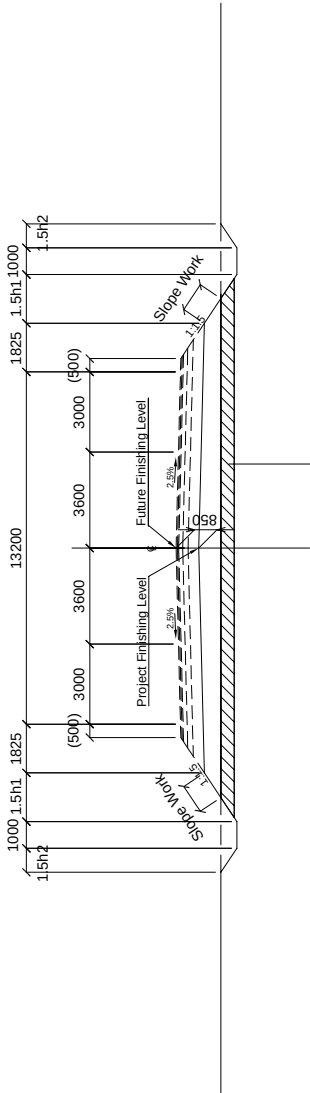
Important Point	Station	X-Coordinate	Y-Coordinate	Element	Distance
GMPOINT01	O+0+00.0000	774.197488	2883.753041	R=∞	224.245076
GMPOINT02	O+0+20.249076	661.484487	4593.457487	R=∞	40.000109
GMPOINT03	O+0+54.249184	642.196807	3052.698123	R=284.000000	418.001257
GMPOINT04	O+0+82.250481	585.730824	3438.163155	R=154.143000	40.000129
GMPOINT05	O+0+72.955690	594.838351	3477.041236	R=∞	2867.601143
GMPOINT06	3+4689.851732	1318.185182	6355.117822	R=∞	40.000141
GMPOINT07	3+729.851874	1328.150810	6383.855322	R=1194.000000	254.536966
GMPOINT08	3+464.382570	1419.924545	6630.747223	R=∞	40.000141
GMPOINT09	4+024.382711	1438.064644	6666.089435	R=154.143000	40.000141
GMPOINT10	4+032.036308	1442.282371	6672.831778	R=∞	7.655597
GMPOINT11	O+0+72.036446	1462.124231	6707.550983	R=∞	40.000139
GMPOINT12	4+187.703922	1540.064894	6784.288782	R=254.000000	110.672876
GMPOINT13	O+0+22.709461	1576.953599	6804.419886	R=∞	40.000139
GMPOINT14	4+292.249403	1576.953599	6804.419886	R=∞	2.294615



Typical Cross Section

SCALE 1/100

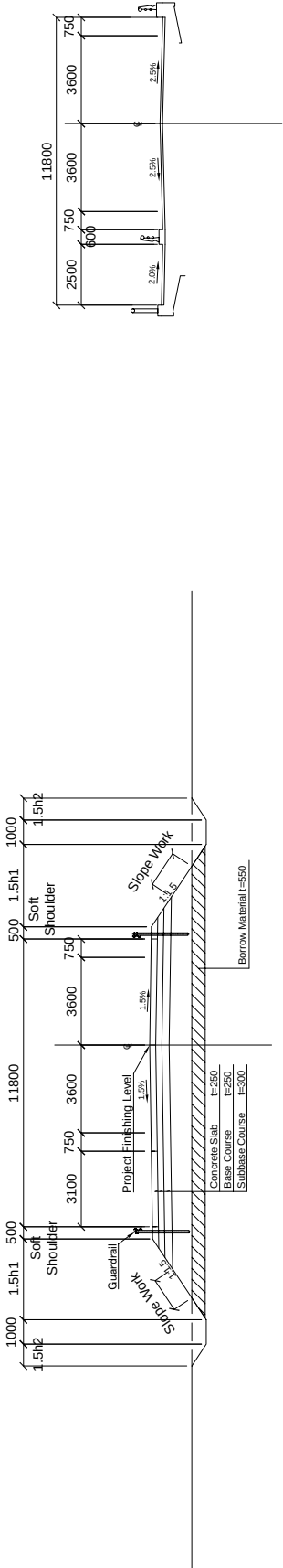
Standard



※ Borrow Material t=300, f=550
※ t=300
NO.1-680~NO.1-680
t=550
NO.1-680~NO.4+225

Concrete Pavement
No. 2+254~No. 2+304
No. 2+864~No. 2+914

Bridge
No. 2+304~No. 2+864



MINISTRY OF TRANSPORT AND ROADS
GOVERNMENT OF SOUTHERN SUDAN

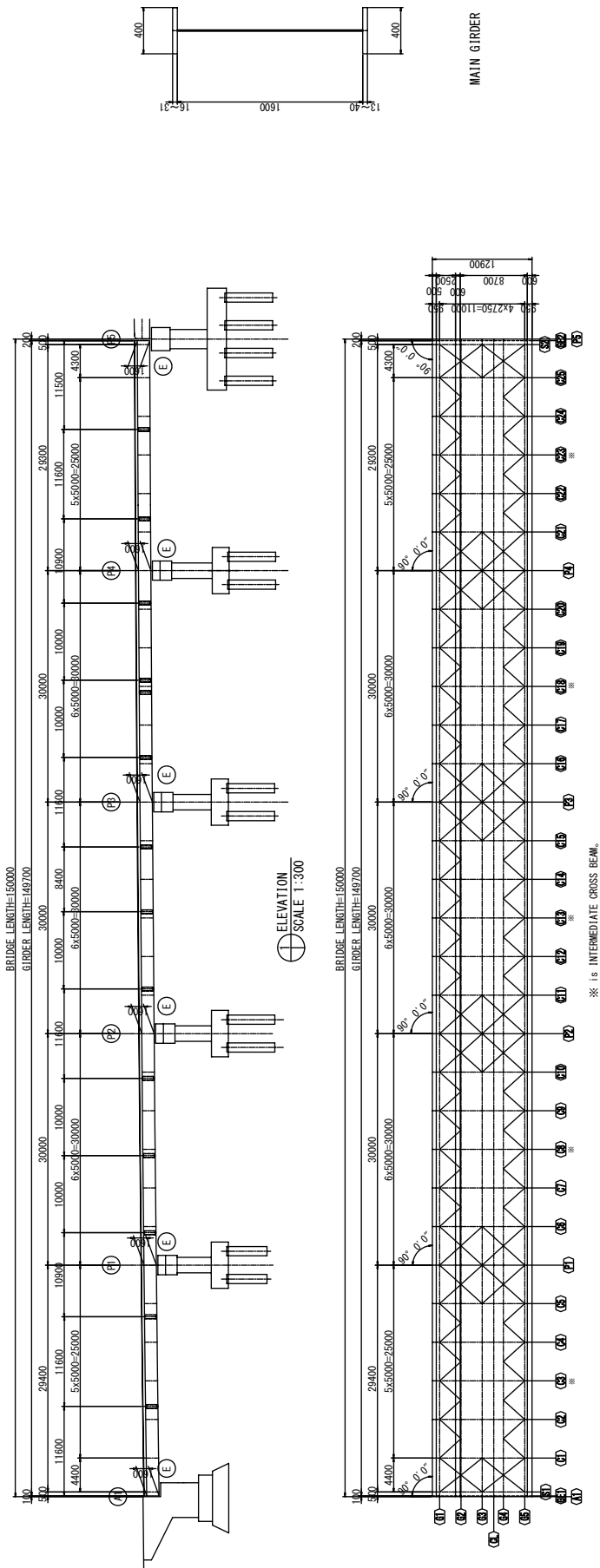
PRELIMINARY SURVEY FOR THE PROJECT FOR
CONSTRUCTION OF NILE RIVER BRIDGE
IN SOUTHERN SUDAN

JAPAN INTERNATIONAL COOPERATION AGENCY
CTI ENGINEERING INTERNATIONAL CO., LTD.
EIGHT-JAPAN ENGINEERING CONSULTANTS INC.

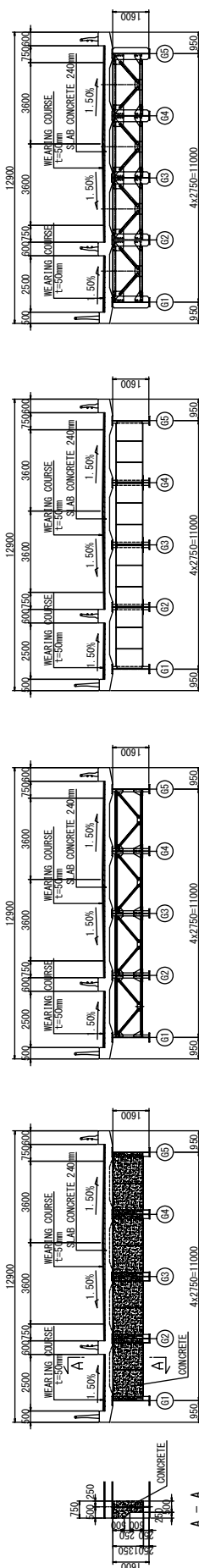
TITLE:

Typical Cross Section of Approach Road

SCALE	SHEET NO.
1/100	1/100
DATE	NIB-14
OCT 2011	



PLAN
SCALE 1:300

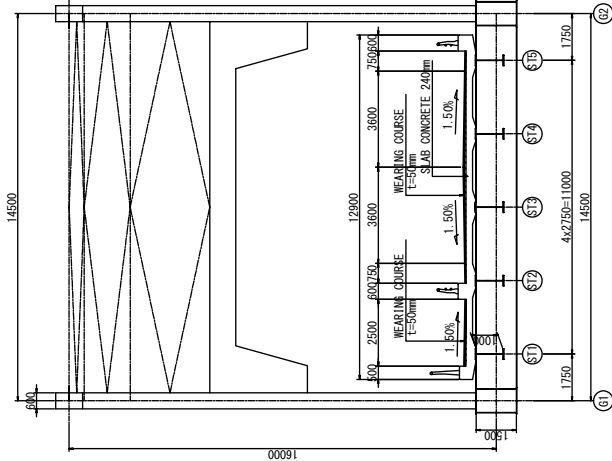
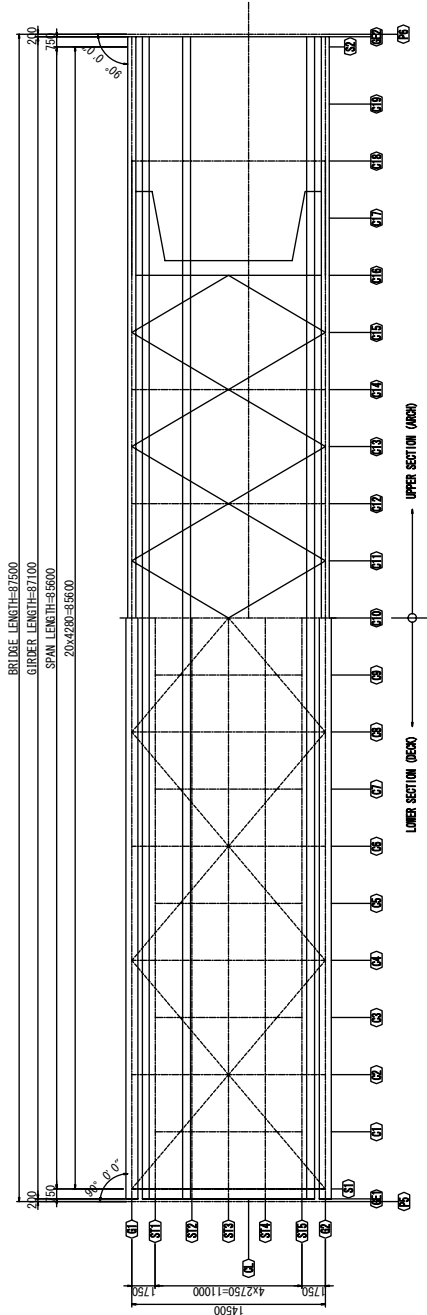
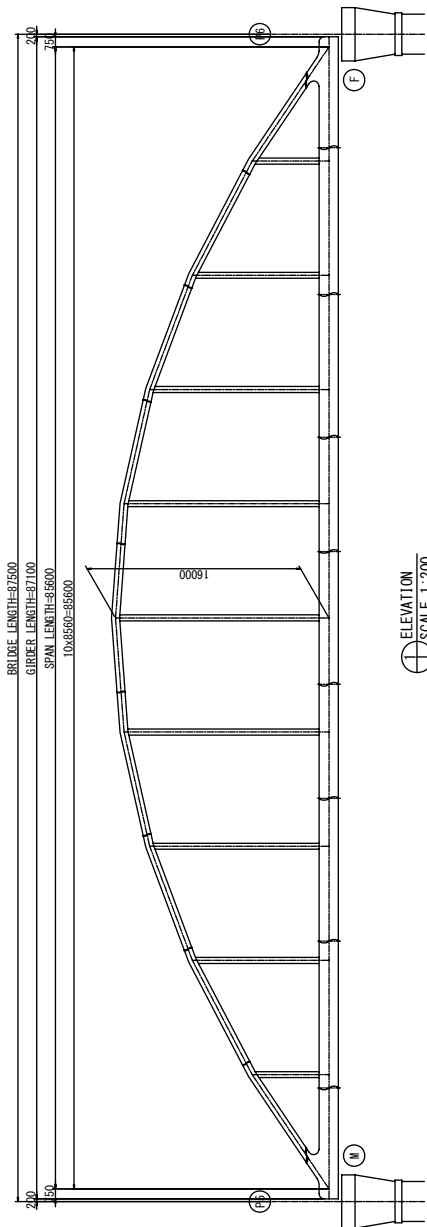


TYPICAL CROSS SECTIONS
SCALE 1:100

MINISTRY OF TRANSPORT AND ROADS GOVERNMENT OF SOUTHERN SUDAN	PRELIMINARY SURVEY FOR THE PROJECT FOR CONSTRUCTION OF NILE RIVER BRIDGE IN SOUTHERN SUDAN	JAPAN INTERNATIONAL COOPERATION AGENCY CTI ENGINEERING INTERNATIONAL CO., LTD. EIGHT-JAPAN ENGINEERING CONSULTANTS INC.	TITLE: SUPERSTRUCTURE LAYOUT AND TYPICAL SECTIONS (A1-P5)	SCALE	SHEET NO.
				1:100	
				1:300	
				DATE	NB-16
					OCT 2011

P5-P6 DETAIL OF SUPER STRUCTURE

S = 1 : 200



MINISTRY OF TRANSPORT AND ROADS GOVERNMENT OF SOUTHERN SUDAN	PRELIMINARY SURVEY FOR THE PROJECT FOR CONSTRUCTION OF NILE RIVER BRIDGE IN SOUTHERN SUDAN	JAPAN INTERNATIONAL COOPERATION AGENCY CTI ENGINEERING INTERNATIONAL CO., LTD. EIGHT-JAPAN ENGINEERING CONSULTANTS INC.	TITLE: SUPERSTRUCTURE LAYOUT AND TYPICAL SECTIONS (P5-P9 LANGHER ARCH)	SCALE	SHEET NO.
				DATE	NB-17
				OCT 2011	

