

SURVEYED BY
 MAPPING BY
 AERIAL PHOTO BY
 TRACED BY
 LOCATION BY
 CHECKED BY

MOPW ROADS DEPT. DRG. NO.

REVISIONS	
DESCRIPTION	DATE

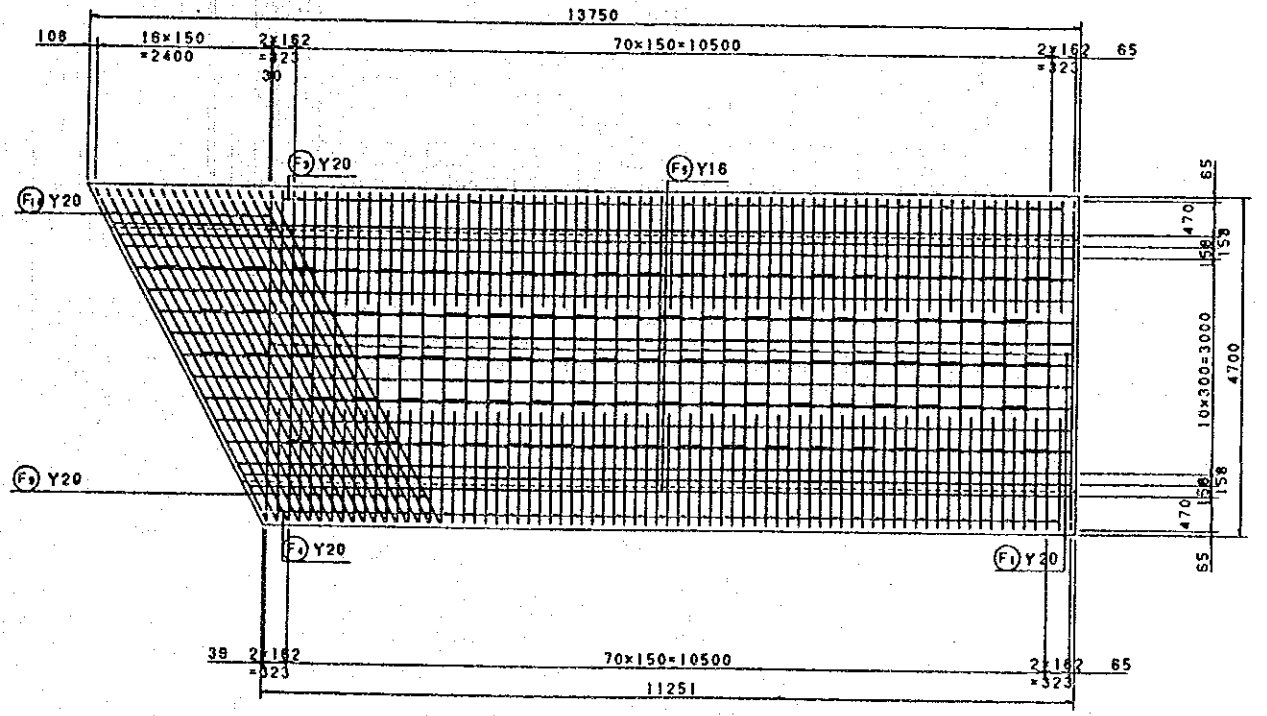
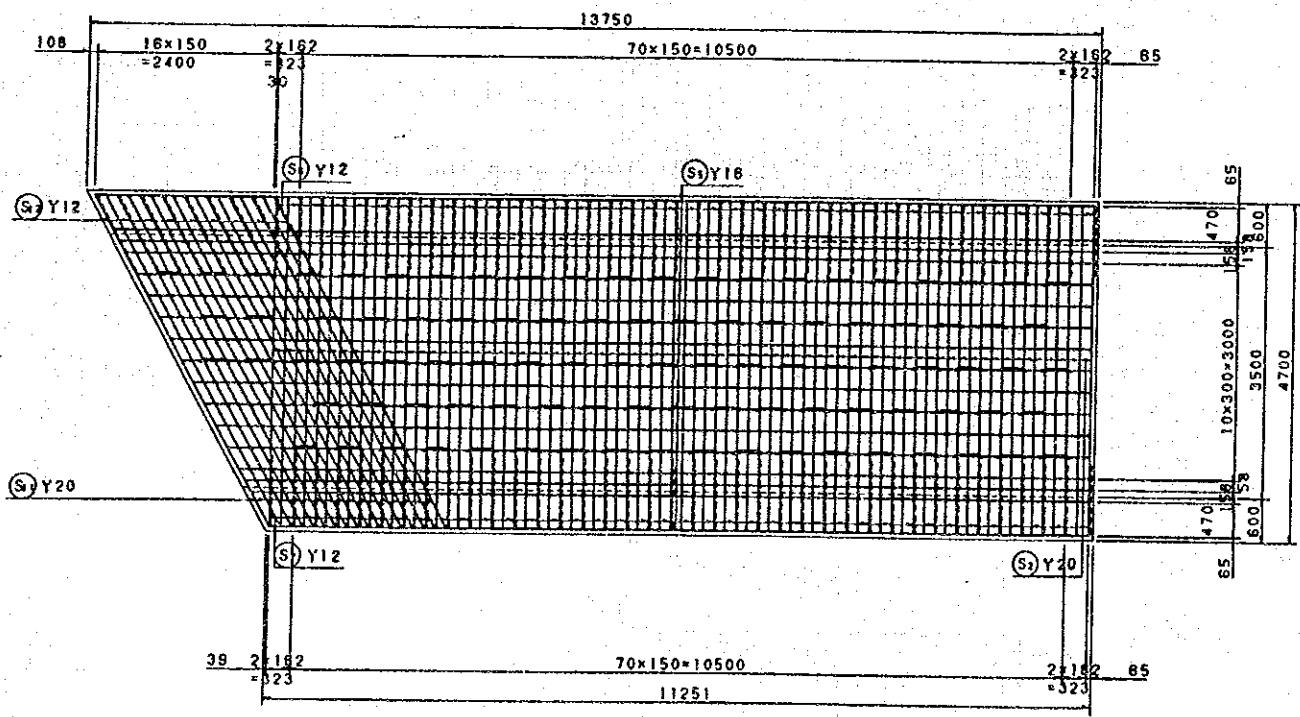
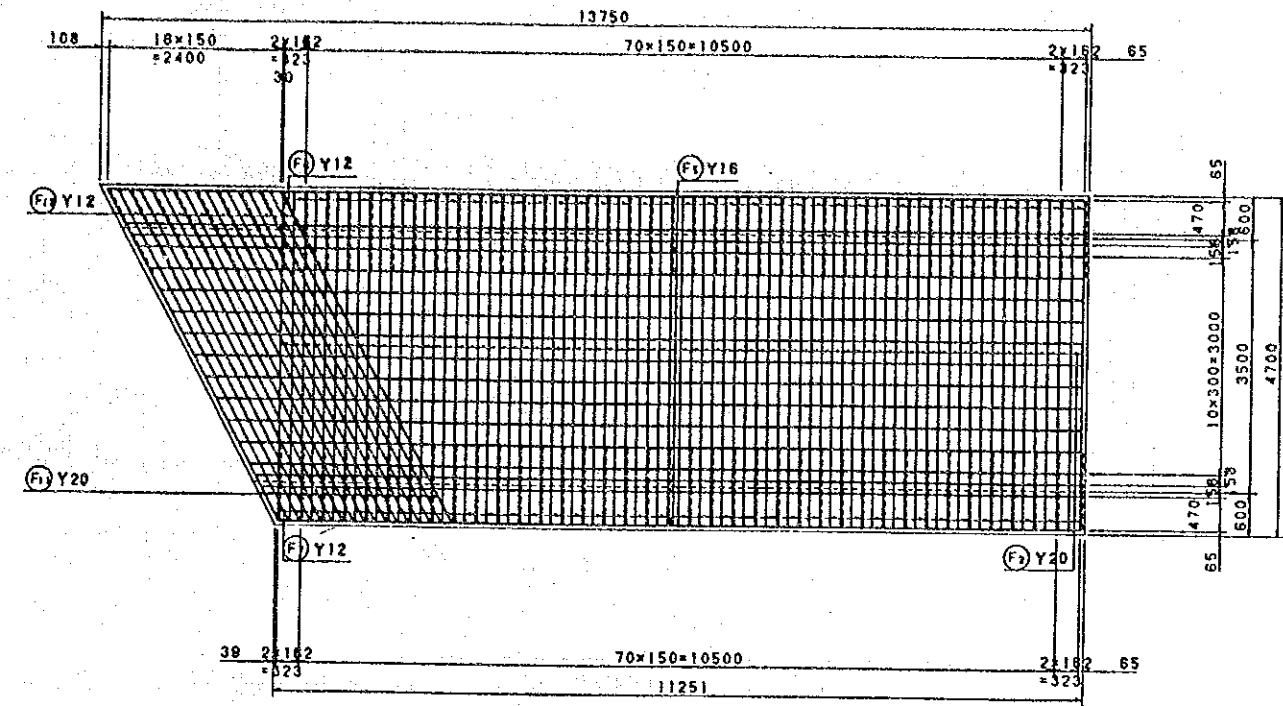
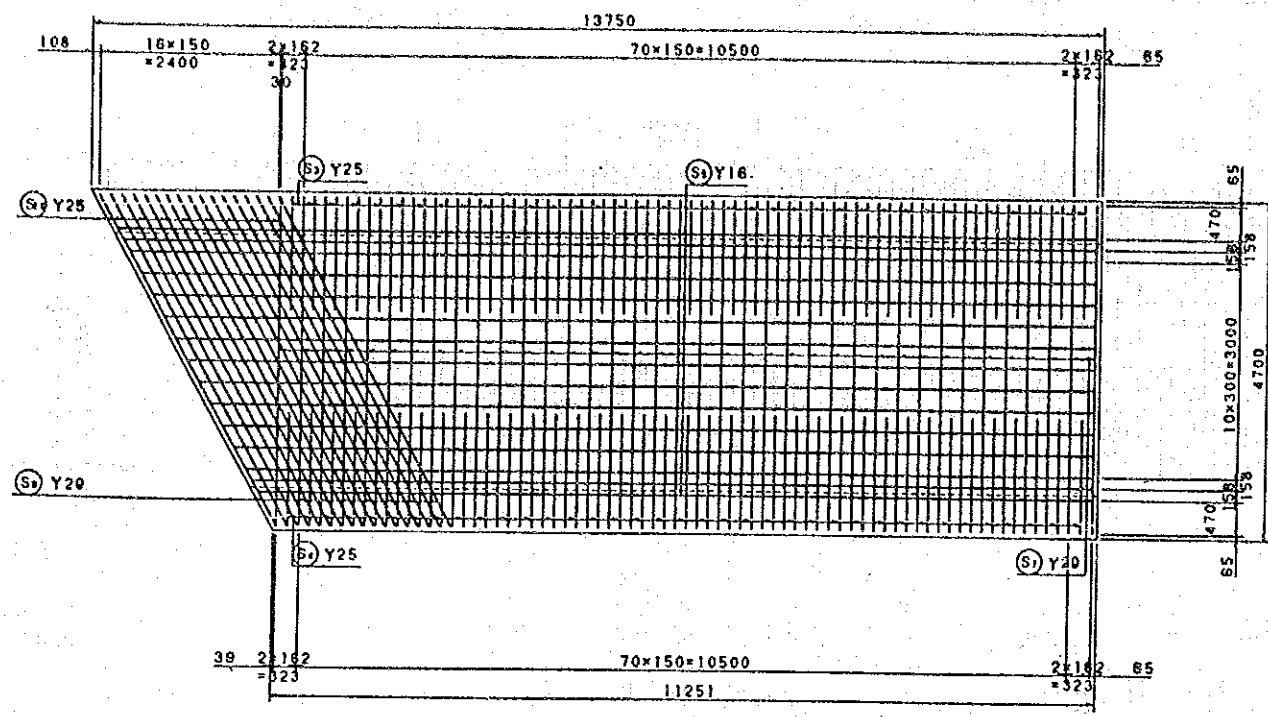
JAPAN INTERNATIONAL COOPERATION AGENCY	CHIEF ENGINEER (ROADS)
	CHIEF SUPT. ENG. (DESIGN)

SEN SUPT. ENG. (DESIGN)	
SUPT. ENGINEER (DESIGN)	
PROJECT ENGINEER	

SCALES
1:100, 400

NAIROBI BYPASS
WATER BOX CULVERTS - NO. 4
CH. 0+187.00 TO 0+190.00 J.C. & S.L.P. 5+3.00 R+3.00 (1)

Q
SHEET 154 OF 183



AERIAL PHOTO BY: _____ SURVEYED BY: _____
 MAPPING BY: _____ TRACED BY: _____
 LOCATION BY: _____ CHECKED BY: _____

M.O.P.W. ROADS DEPT. DRG. NO.

REVISIONS	DESCRIPTION	DATE

JAPAN INTERNATIONAL COOPERATION AGENCY

CHIEF ENGINEER (ROADS)
CHIEF SUPT. ENG. (DESIGN)

SEN. SUPT. ENG. (DESIGN)
SUPT. ENGINEER (DESIGN)
PROJECT ENGINEER

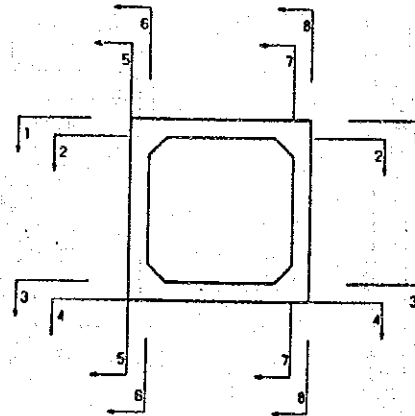
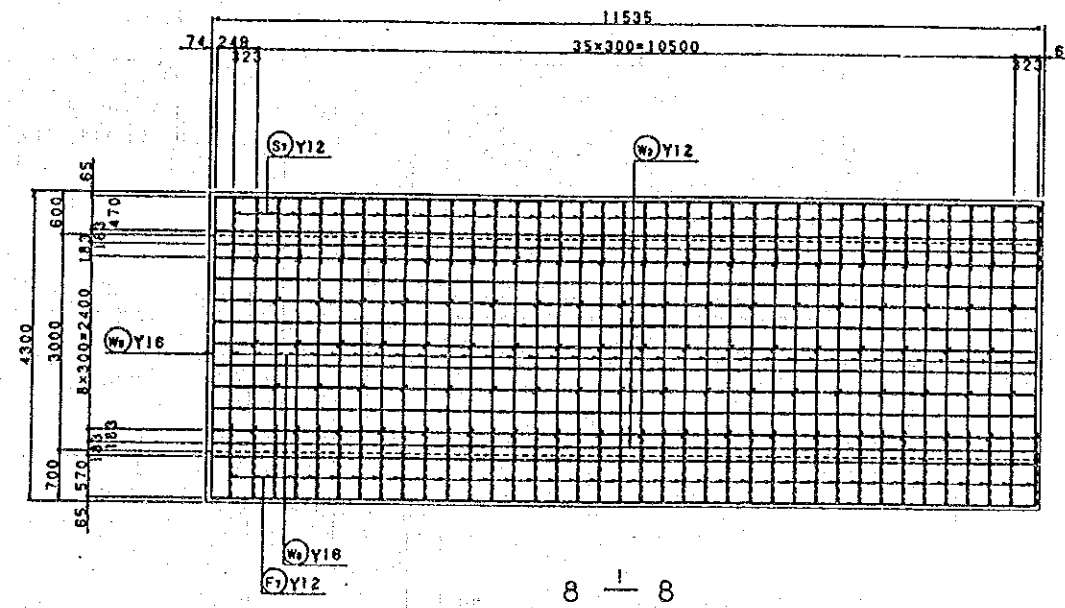
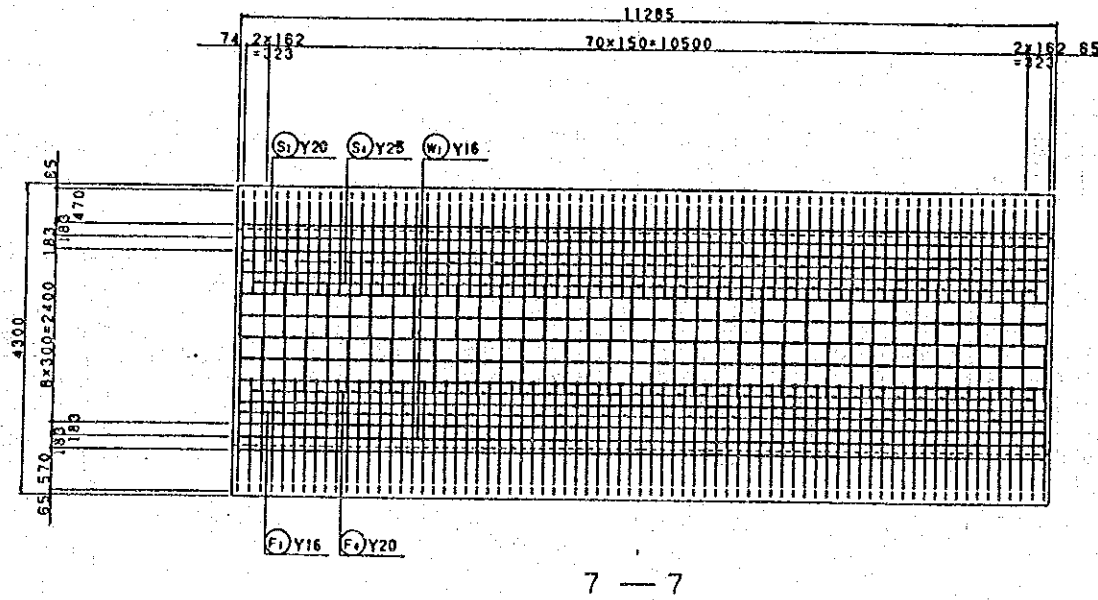
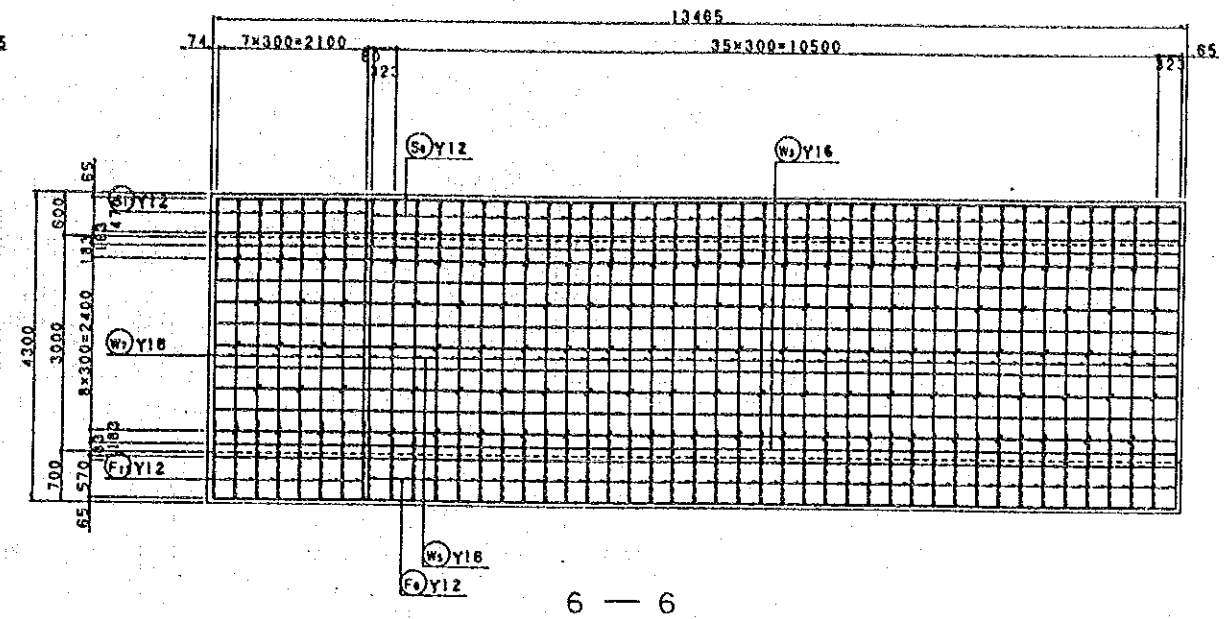
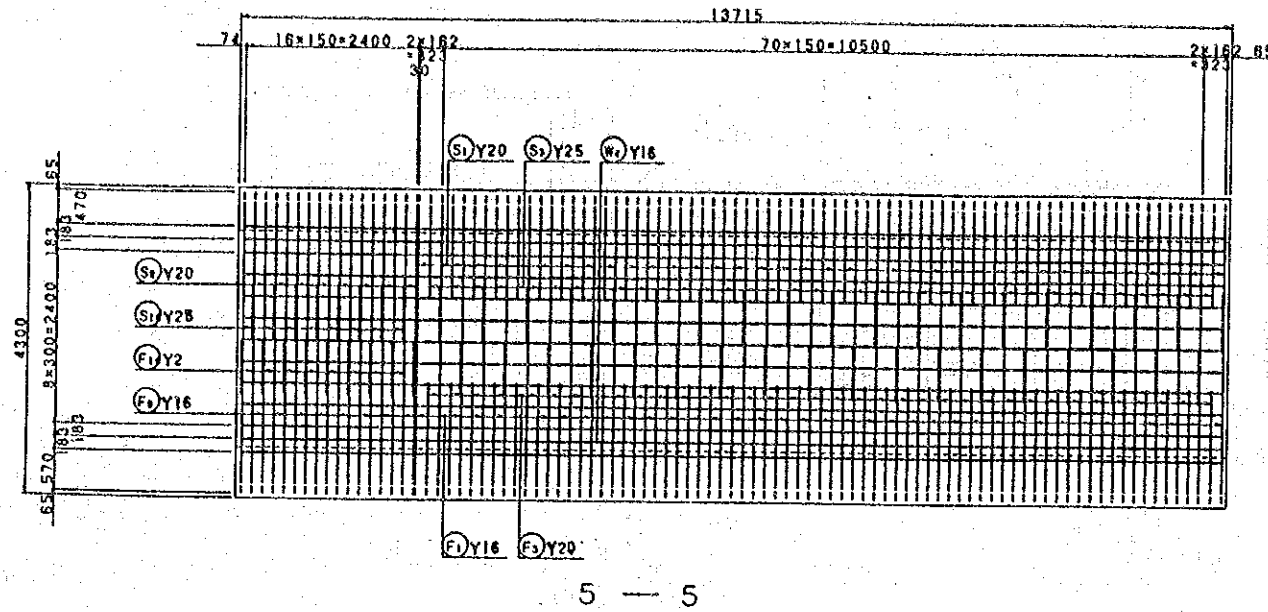
SCALES
1:50

NAIROBI BYPASS
WATER BOX CULVERTS
CR 00-157, 00 NGONG J, C & SLIP R-3, 60 R-1.00 (2)

Q
SHEET 135 OF 163

AERIAL PHOTO BY _____
 SURVEYED BY _____
 MAPPING BY _____
 LOCATION BY _____
 CHECKED BY _____

M.O.P.W. ROADS DEPT DRG NO.



REVISIONS	
DESCRIPTION	DATE

JAPAN INTERNATIONAL COOPERATION AGENCY

CHIEF ENGINEER (ROADS)
CHIEF SUPT ENG (DESIGN)

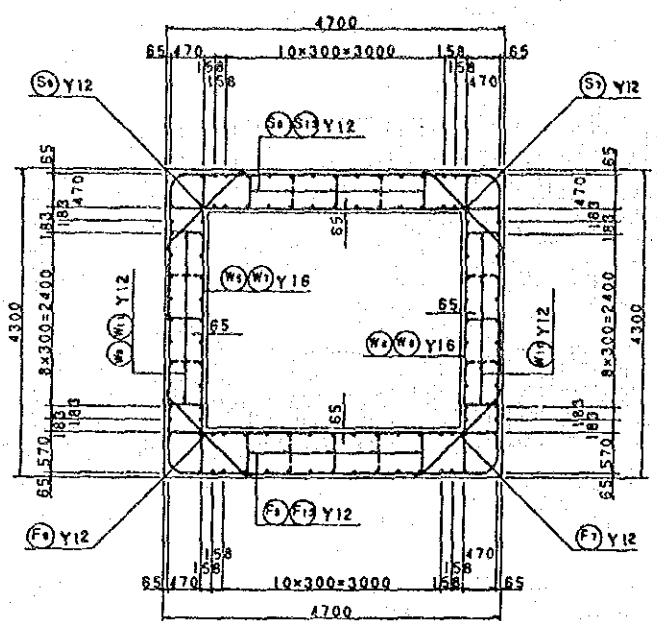
SEN SUPT ENG (DESIGN)
SUPT ENGINEER (DESIGN)
PROJECT ENGINEER

SCALES
1:50

NAIROBI BYPASS

WATER BOX CULVERTS
CN 00+157.00 NGONG J.C. B SLIP W=3.00 D=3.00 (3)

Q
SHEET 136 OF 183

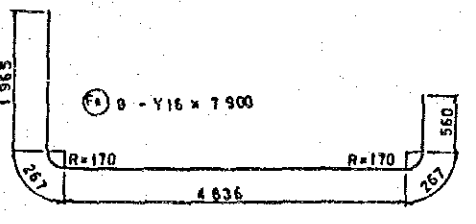
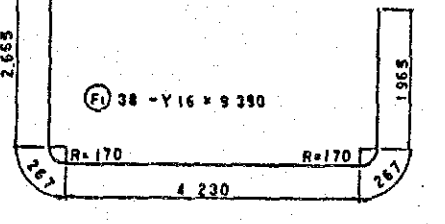
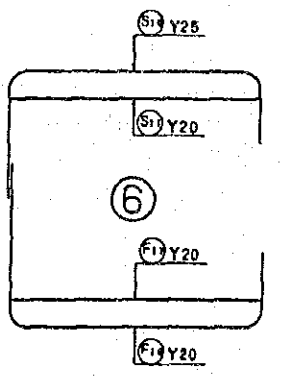
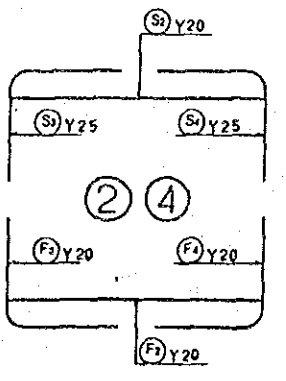
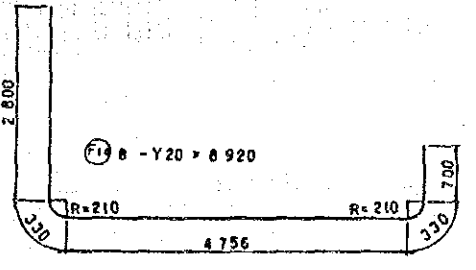
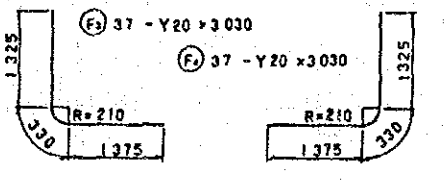
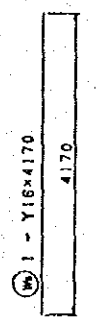
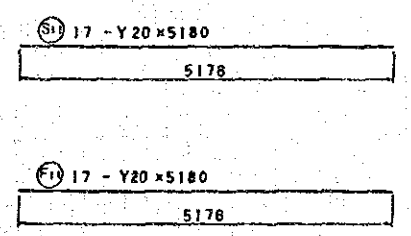
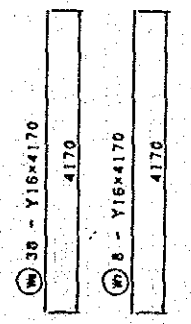
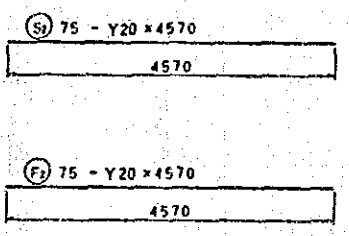
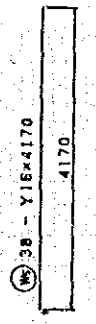
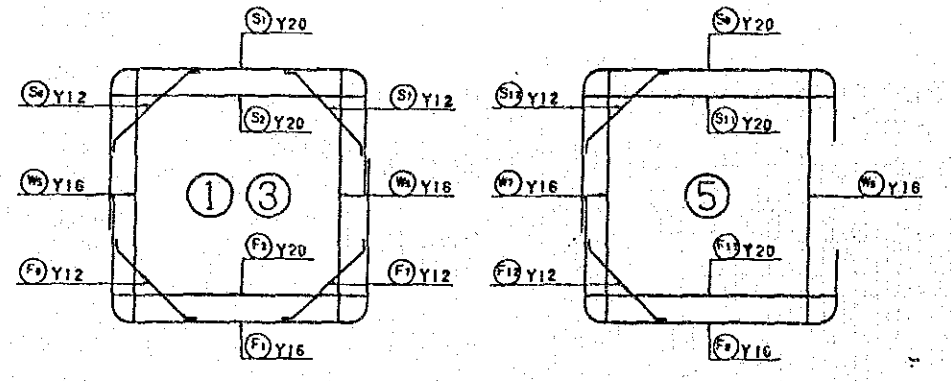
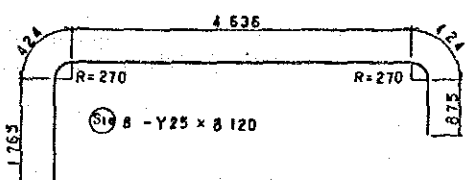
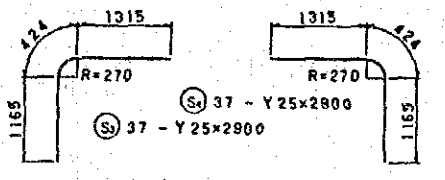
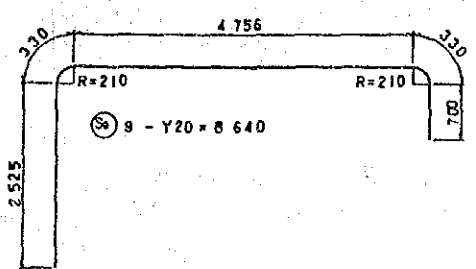
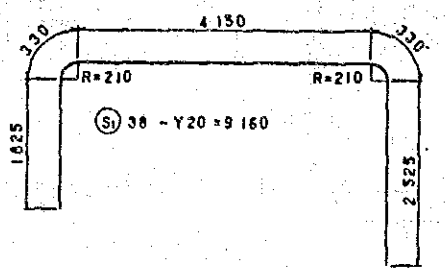


SECTION

MARK	DIA	a	b	L	REMARK
S 8	Y12	335	505	1545	
S13	335	505	1545		
F 8	335	805	1745		
F13	335	805	1745		
W 9	---	502	702		
W10	---	502	702		
W11	---	564	764		

MARK	DIA	a	H	L	NUMBER
S 8	Y12	1383	978	1583	38
S 7	1383	978	1583	38	
S12	1483	1048	1683	8	
F 8	1525	1078	1725	38	
F 7	1525	1078	1725	38	
F12	1625	1148	1825	8	

MARK	DIA	a	b	c	L = a + b	LAP-N	NUMBER
S 5	Y16	10000	1706- 4136(282b	560	12 921	1	32
F 5	Y16	10000	1706- 4136(282b	560	12 921	1	32
W 1	Y16	10000	1706	560	11 706	1	11
W 2	Y12	10000	1816	420	11 616	1	11
W 3	Y12	10000	3746	420	13 746	1	11
W 4	Y16	10000	4 136	560	14 136	1	11



SURVEYED BY: _____
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 CHECKED BY: _____
 M.O.P.W. ROADS DEPT. DRG. NO. _____

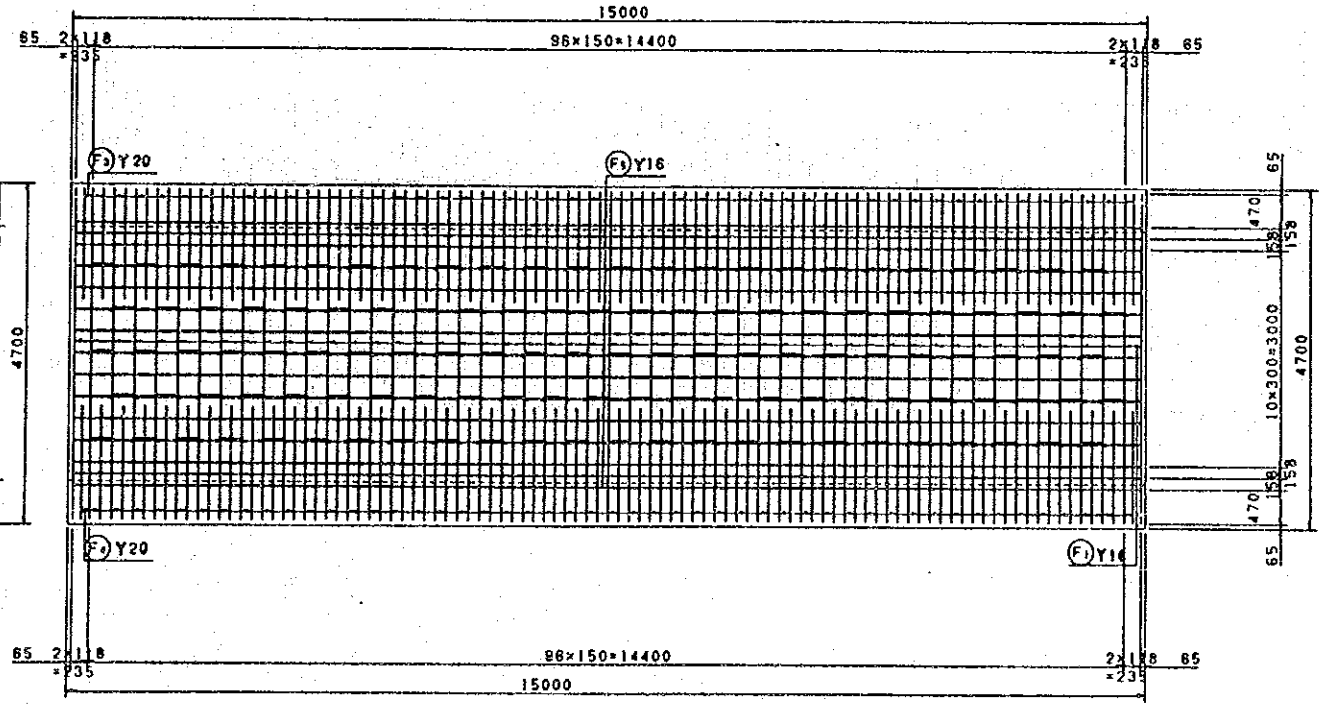
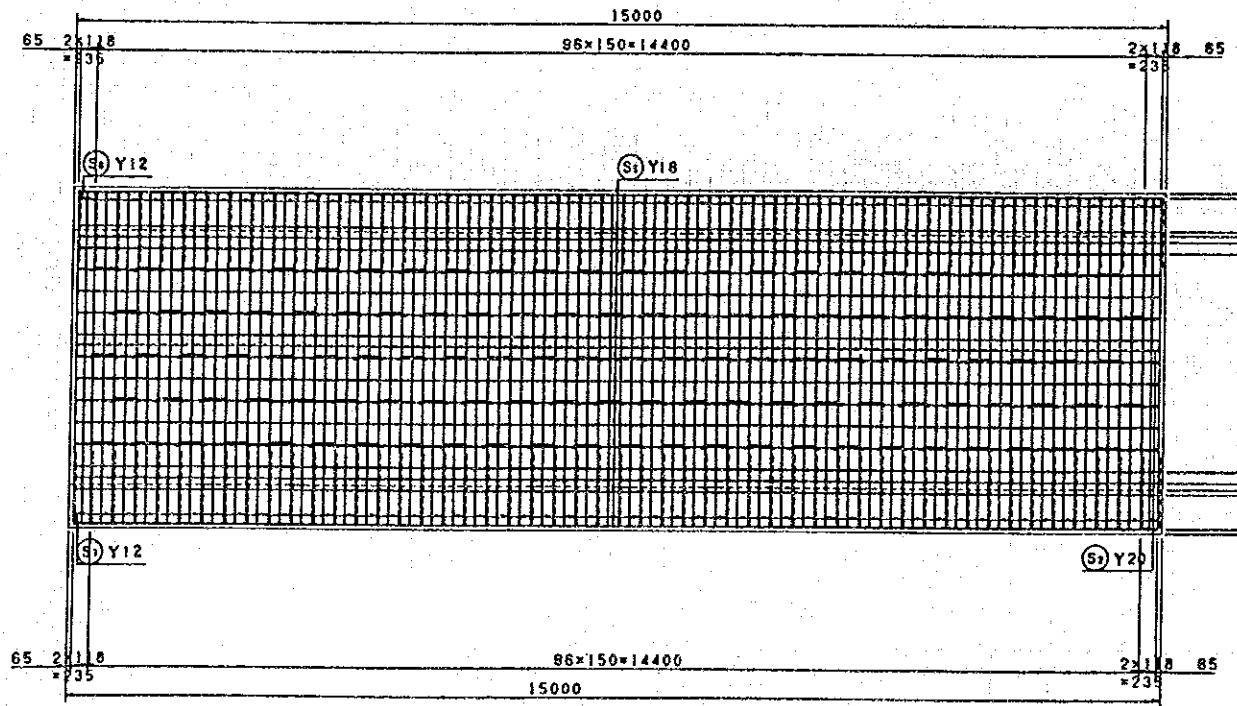
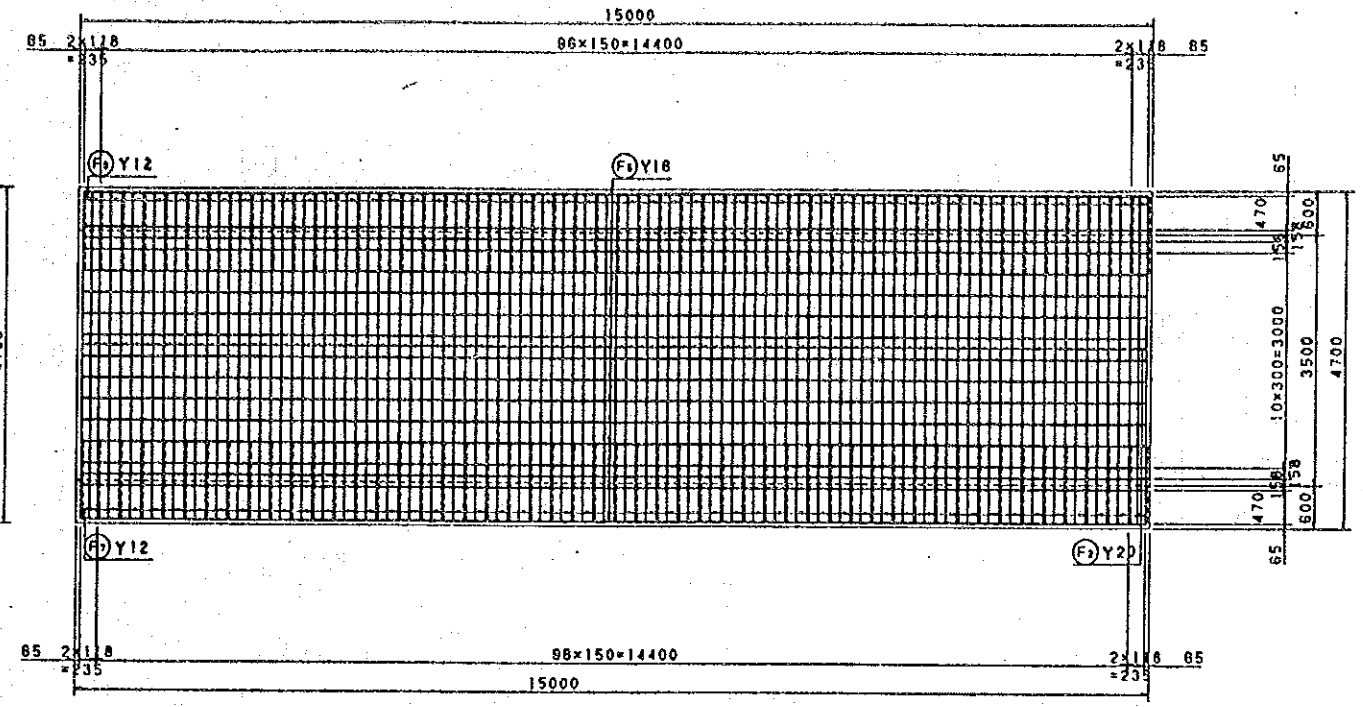
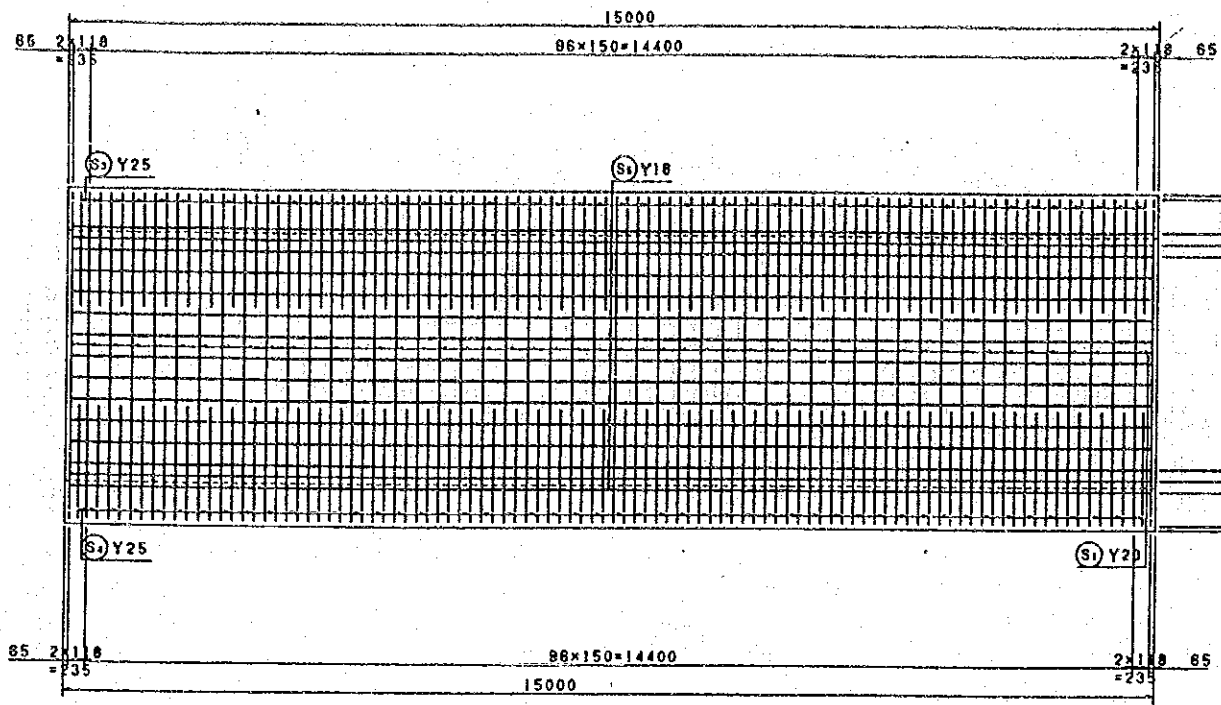
REVISIONS	DESCRIPTION	DATE

JAPAN INTERNATIONAL COOPERATION AGENCY
 CHIEF ENGINEER (ROADS)
 CHIEF Supt ENG (DESIGN)

SEN SUPT ENG (DESIGN)
 SUPT ENGINEER (DESIGN)
 PROJECT ENGINEER

SCALES
 1: 50

NAIROBI BYPASS
 WATER BOX CULVERTS
 CR 00-167.00 NGONG J.C. B SLIP R-2.60 R-1.60 (1)



AERIAL PHOTO BY _____ SURVEYED BY _____
 MAPPING BY _____ TRACED BY _____
 LOCATION BY _____ CHECKED BY _____
 MOPW ROADS DEPT DRG NO. _____

2 — 2

4 — 4

REVISIONS	
DESCRIPTION	DATE

JAPAN INTERNATIONAL
COOPERATION AGENCY

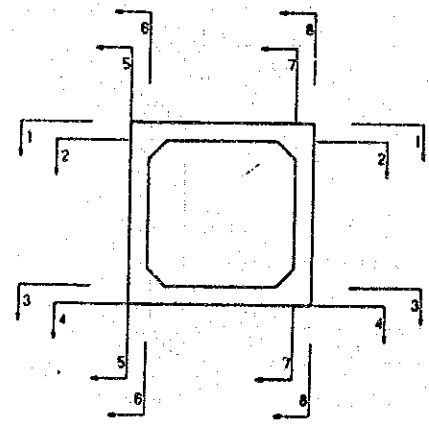
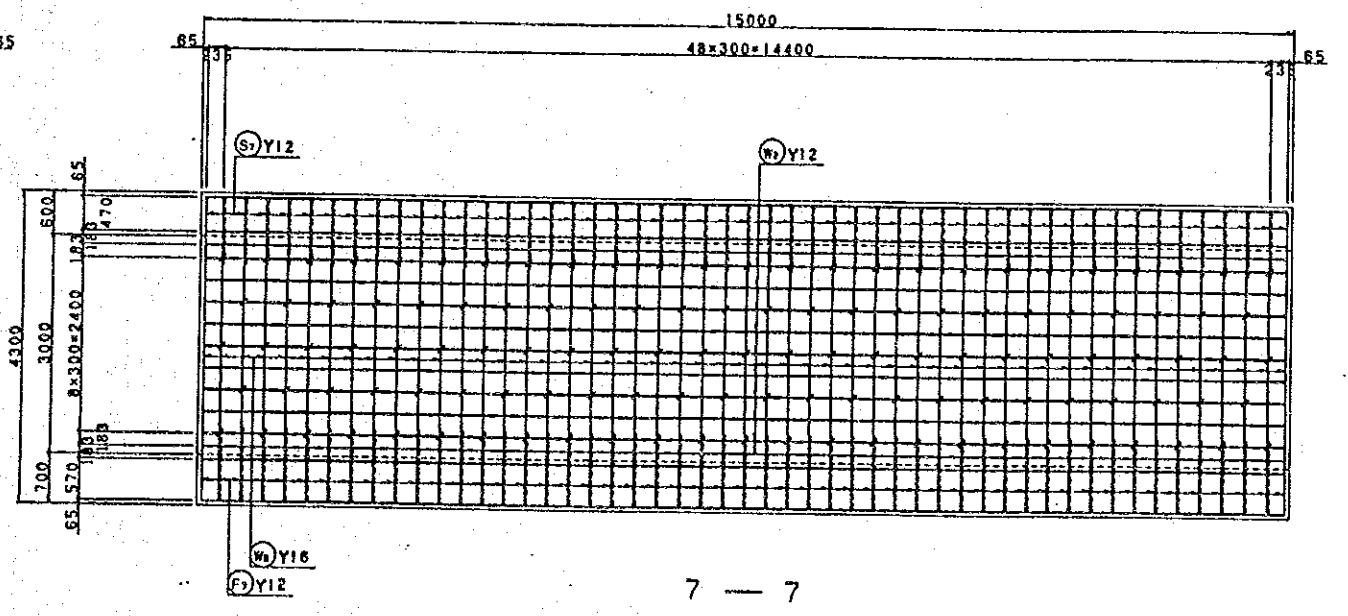
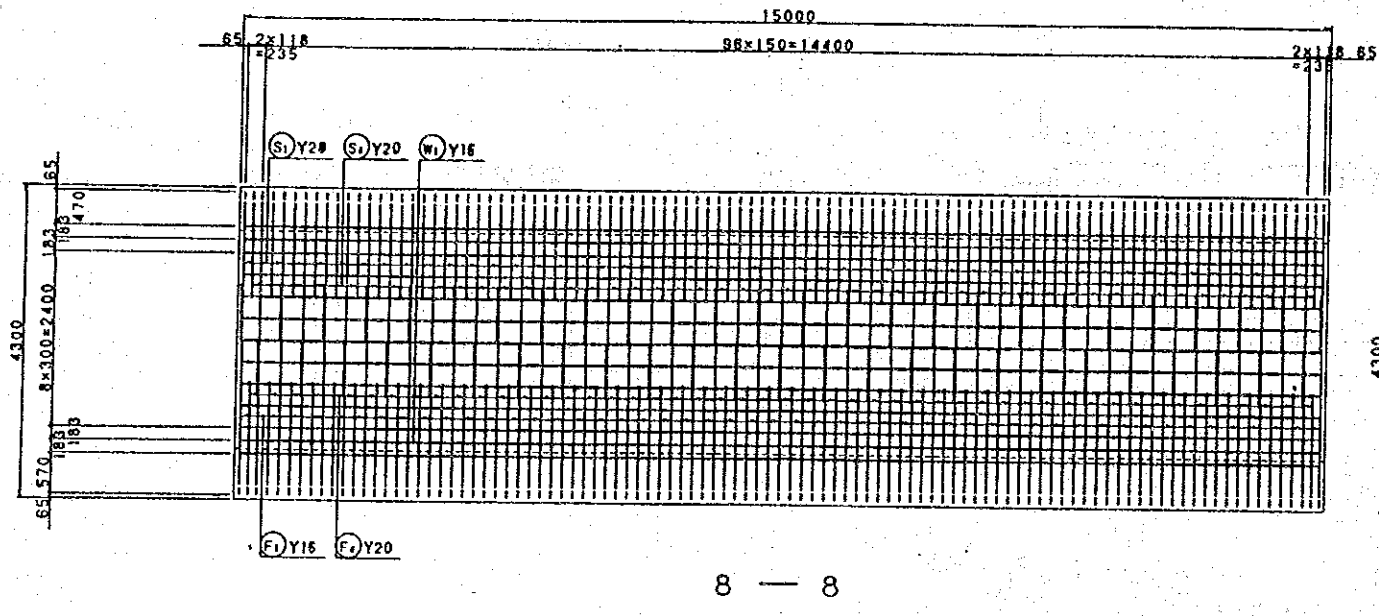
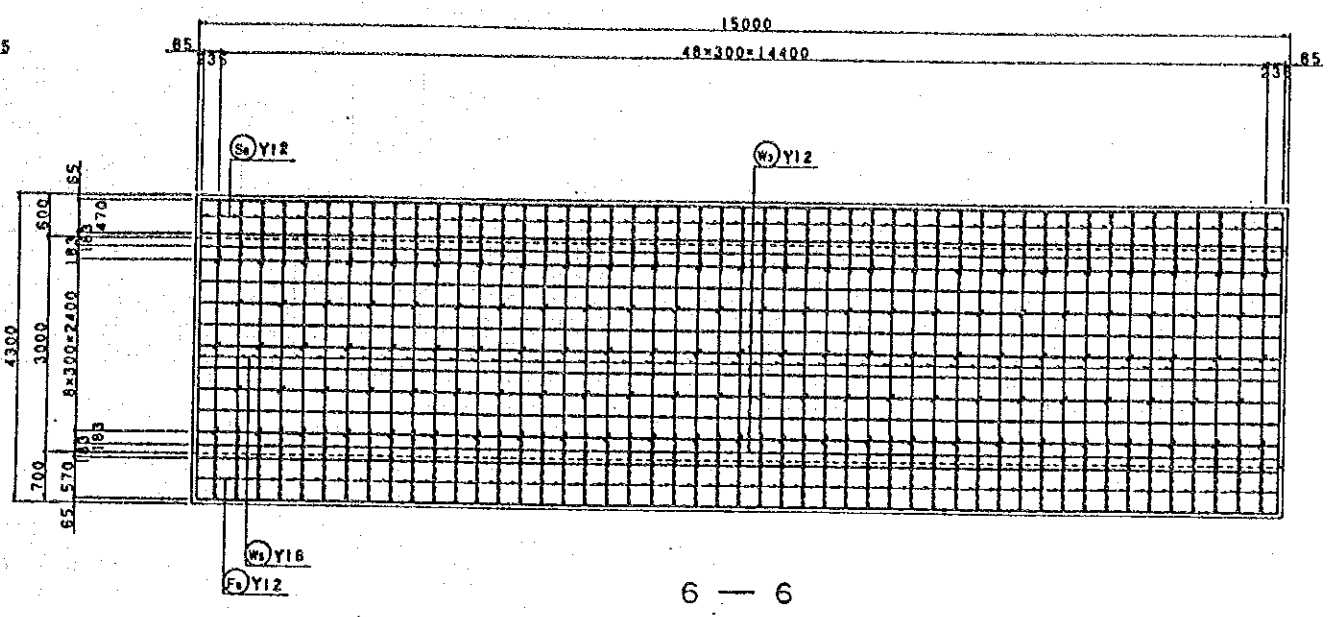
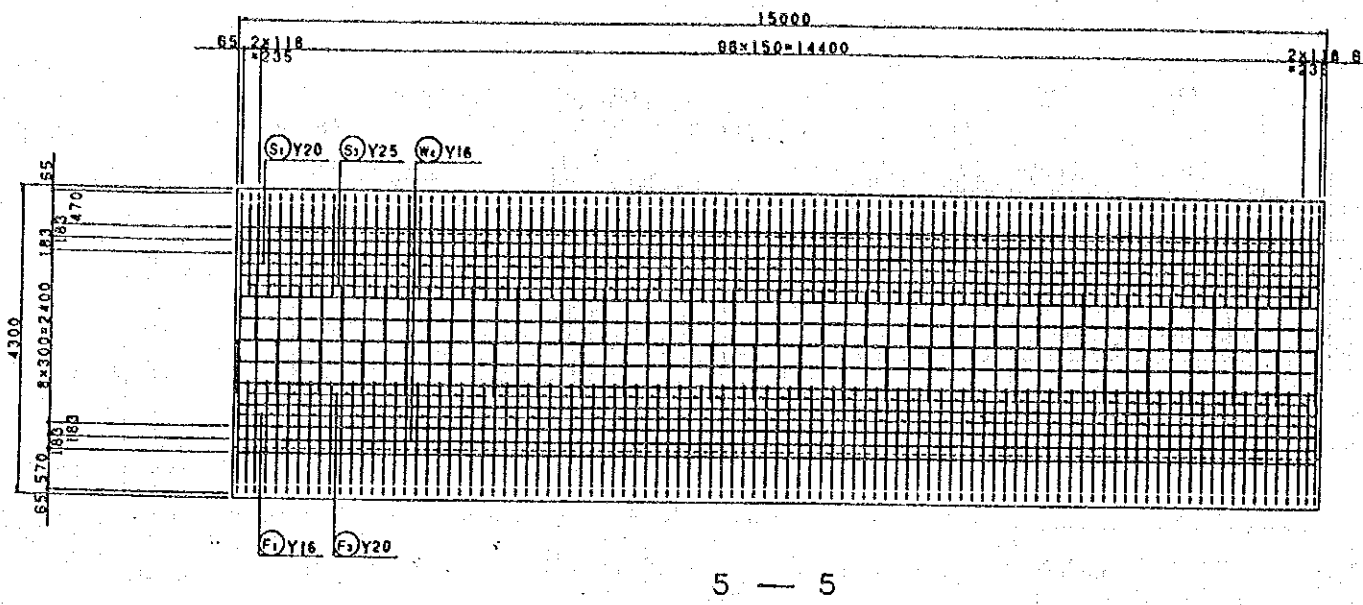
CHIEF ENGINEER (ROADS)
CHIEF SUPT ENG (DESIGN)

SEN SUPT. ENG (DESIGN)
SUPT ENGINEER (DESIGN)
PROJECT ENGINEER

SCALES
1:50

NAIROBI BYPASS
WATER BOX CULVERTS
CR 00-187.00 NGONG J.C.B SLIP 9-3, 60 D-3, 00 (4)

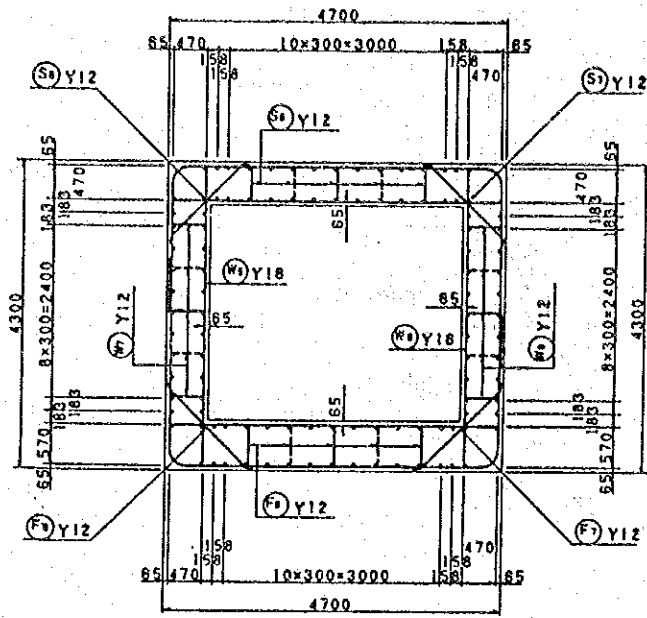
Q
SHEET 130 OF 165



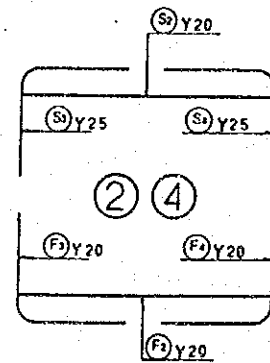
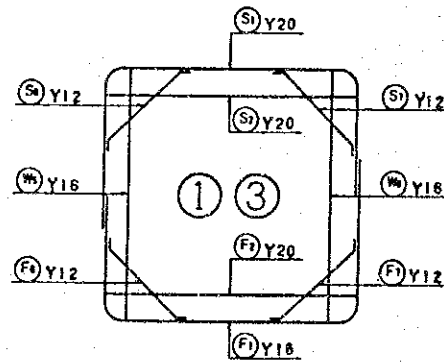
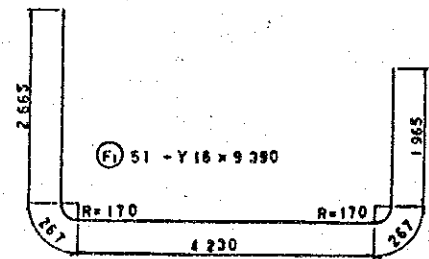
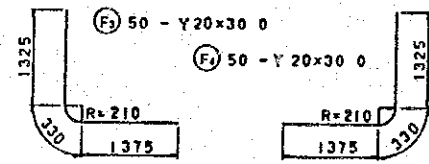
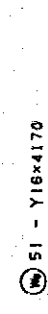
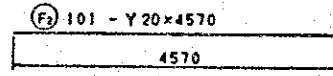
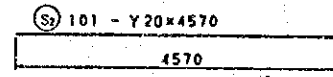
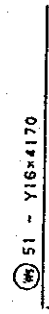
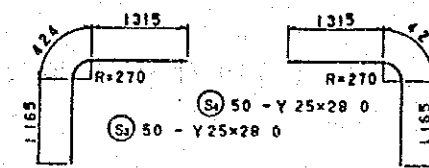
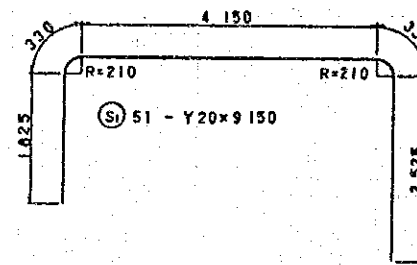
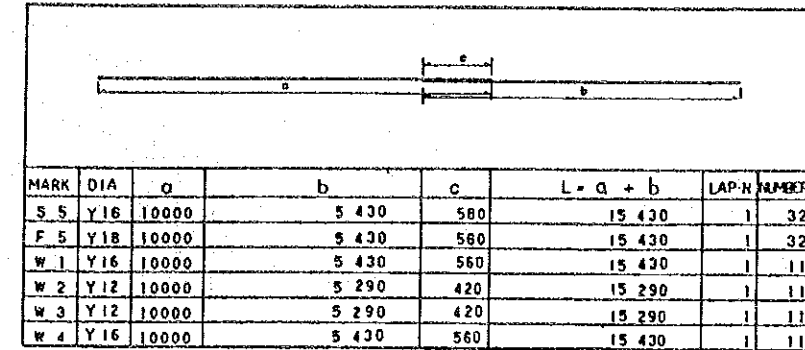
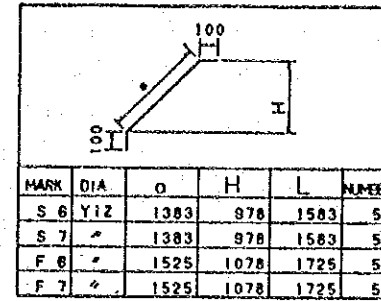
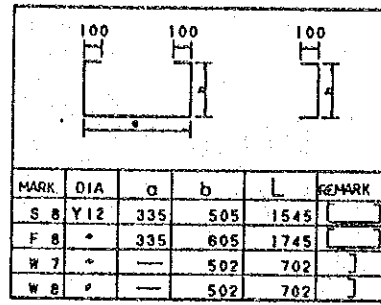
AERIAL PHOTO BY _____ SURVEYED BY _____
 MAPPING BY _____ TRACED BY _____
 LOCATION BY _____ CHECKED BY _____

MOPW ROADS DEPT DRG NO.

REVISIONS		JAPAN INTERNATIONAL COOPERATION AGENCY	CHIEF ENGINEER (ROADS)	SEN SUPT. ENG (DESIGN)	SCALES	NAIROBI BYPASS	0
DESCRIPTION	DATE						
			CHIEF SUPT. ENG (DESIGN)	SUPT ENGINEER (DESIGN)	1:50	WATER BOX CULVERTS CN 60+157.00 RCORG J.C & SLIP 9+3.00 R-3.00 (6)	SHEET 150 OF 183
				PROJECT ENGINEER			



SECTION



AERIAL PHOTO BY _____ SURVEYED BY _____
 MAPPING BY _____ TRACED BY _____
 LOCATION BY _____ CHECKED BY _____

MOPW ROADS DEPT DRG NO.

REVISIONS	
DESCRIPTION	DATE

JAPAN INTERNATIONAL COOPERATION AGENCY

CHIEF ENGINEER (ROADS)
 CHIEF SUPT ENG (DESIGN)

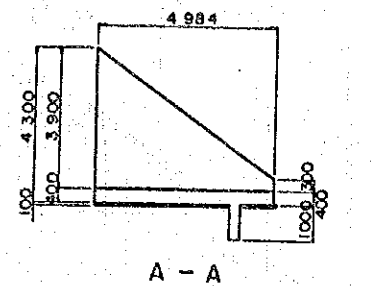
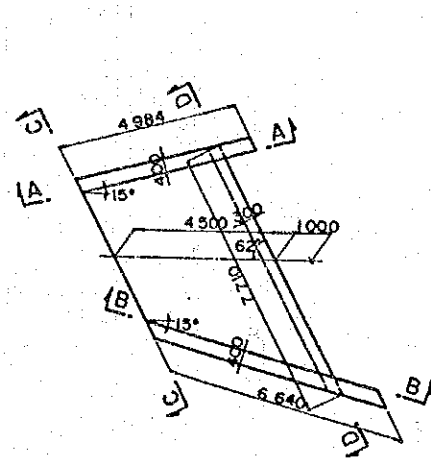
SEN SUPT. ENG (DESIGN)
 SUPT ENGINEER (DESIGN)
 PROJECT ENGINEER

SCALES
 1:50

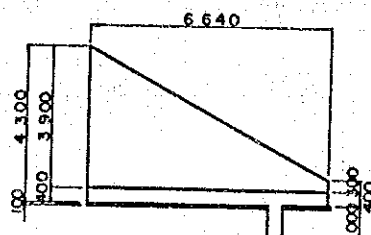
NAIROBI BYPASS

WATER BOX CULVERTS
 CR 00-161.00 1000G J,C B SLIP R-3.00 R-3.00 (?)

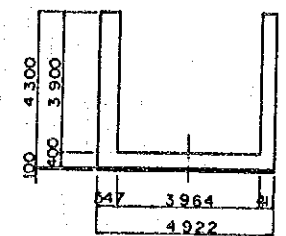
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 SHEET 140 OF 185



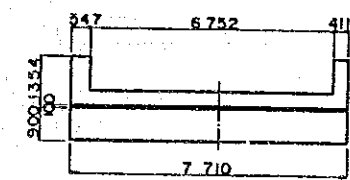
A - A



B - B



C - C



D - D

RETAINING WALL OF NO4 BOX FOR DRAINAGE

AERIAL PHOTO BY	SURVEYED BY
MAPPING BY	TRACED BY
LOCATION BY	CHECKED BY

MOPW ROADS DEPT DRG NO

REVISIONS	
DESCRIPTION	DATE

JAPAN INTERNATIONAL COOPERATION AGENCY

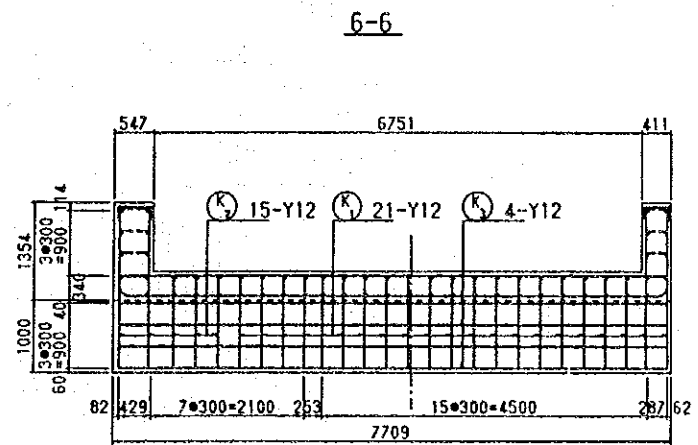
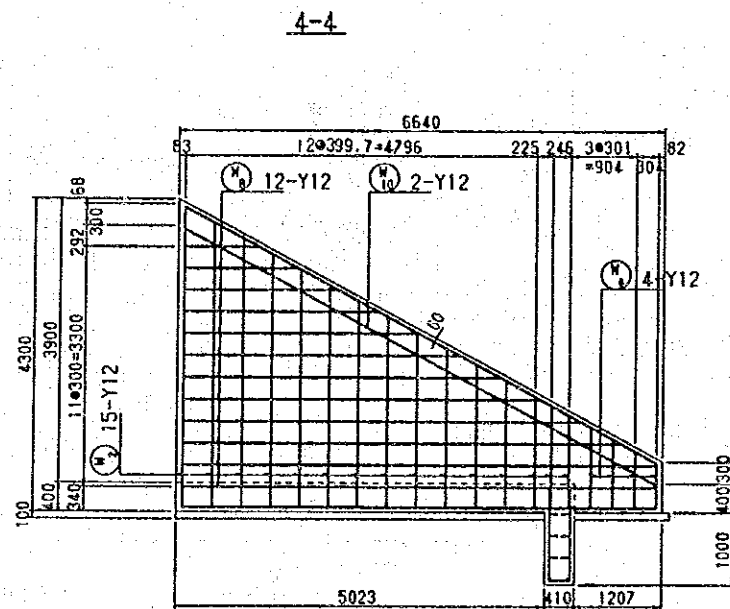
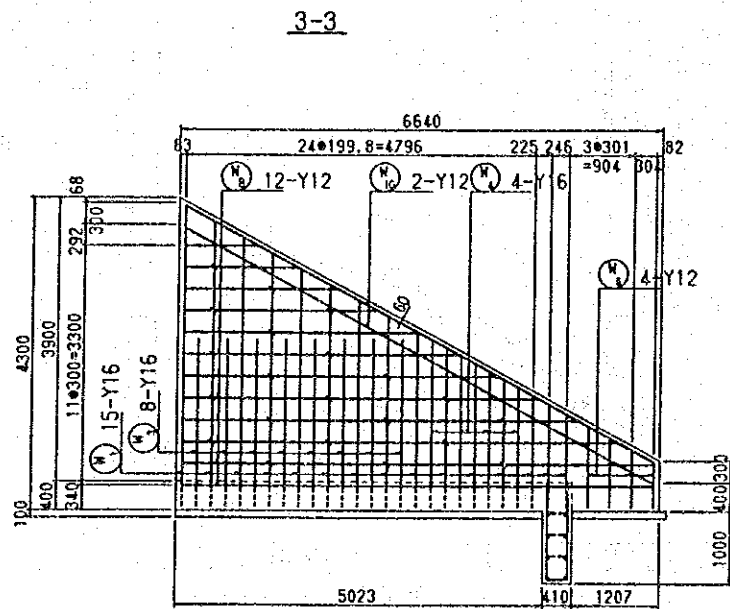
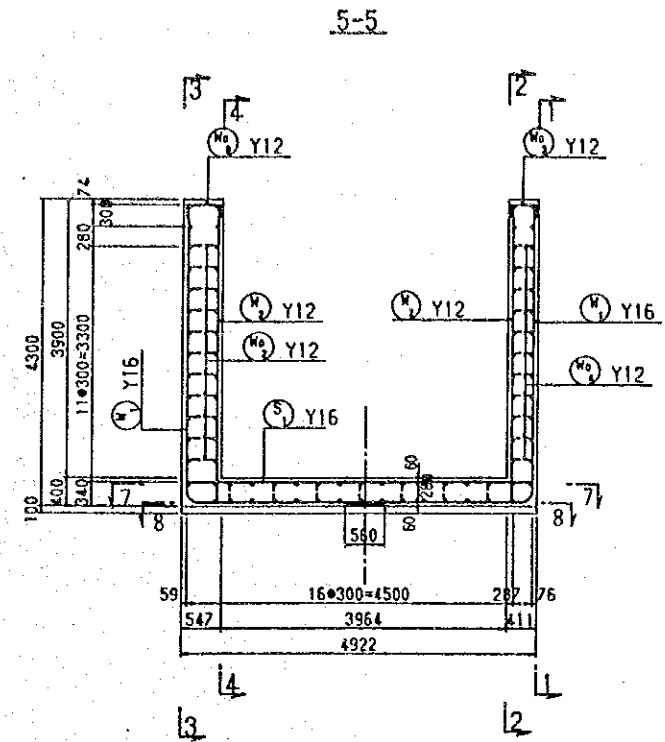
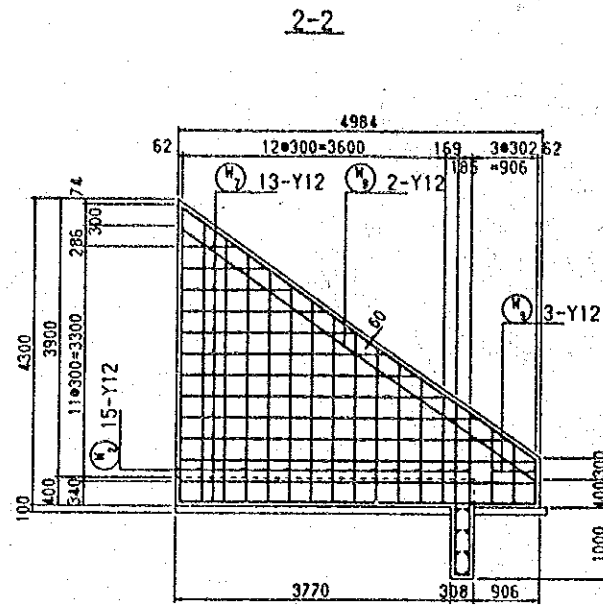
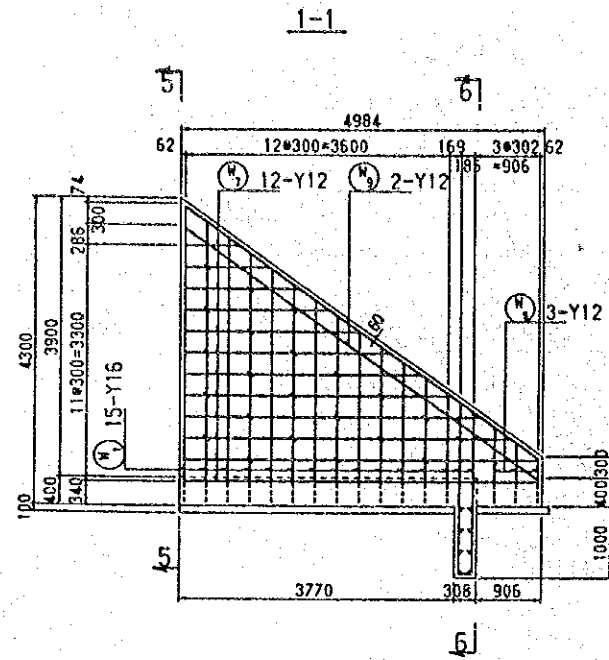
CHIEF ENGINEER (ROADS)
CHIEF SUPT ENG (DESIGN)

SEN SUPT ENG (DESIGN)
SUPT ENGINEER (DESIGN)
PROJECT ENGINEER

SCALES
1: 100

NAIROBI BYPASS
WATER BOX CULVERTS
CR 00-167.00 RGOING J.C B SLIP W=3.60 H=3.00 (4)

Q
SHEET 141 OF 183



AERIAL PHOTO BY	SURVEYED BY
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LOCATION BY	CHECKED BY

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REVISIONS	DESCRIPTION	DATE

JAPAN INTERNATIONAL COOPERATION AGENCY

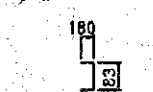
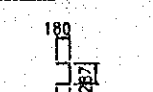
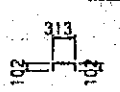
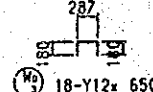
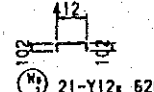
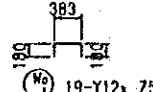
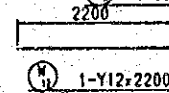
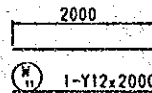
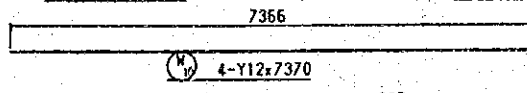
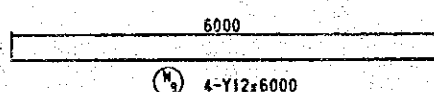
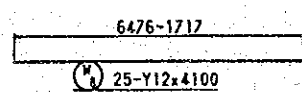
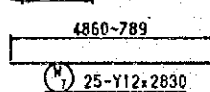
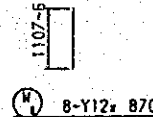
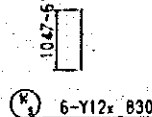
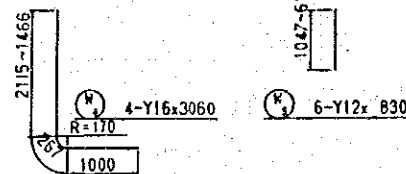
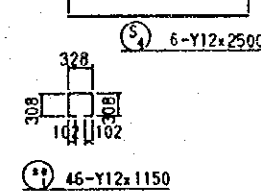
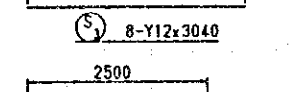
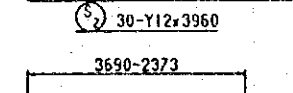
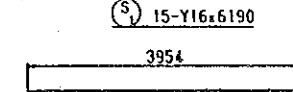
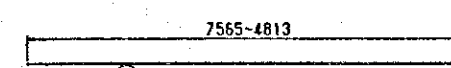
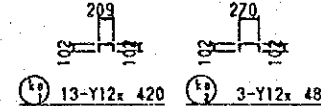
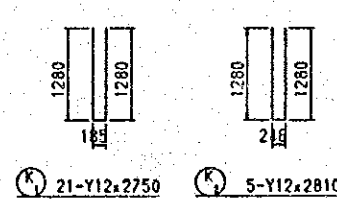
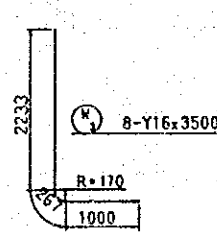
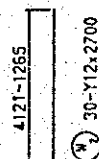
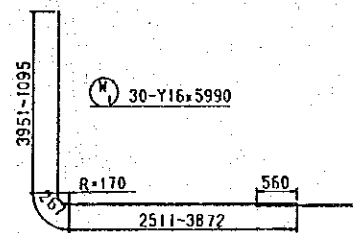
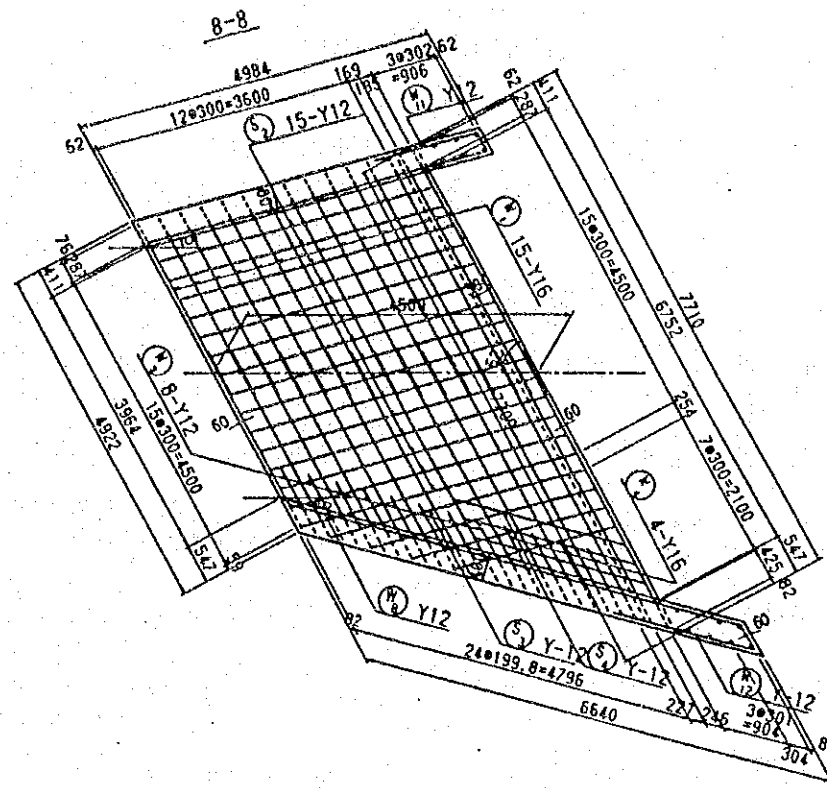
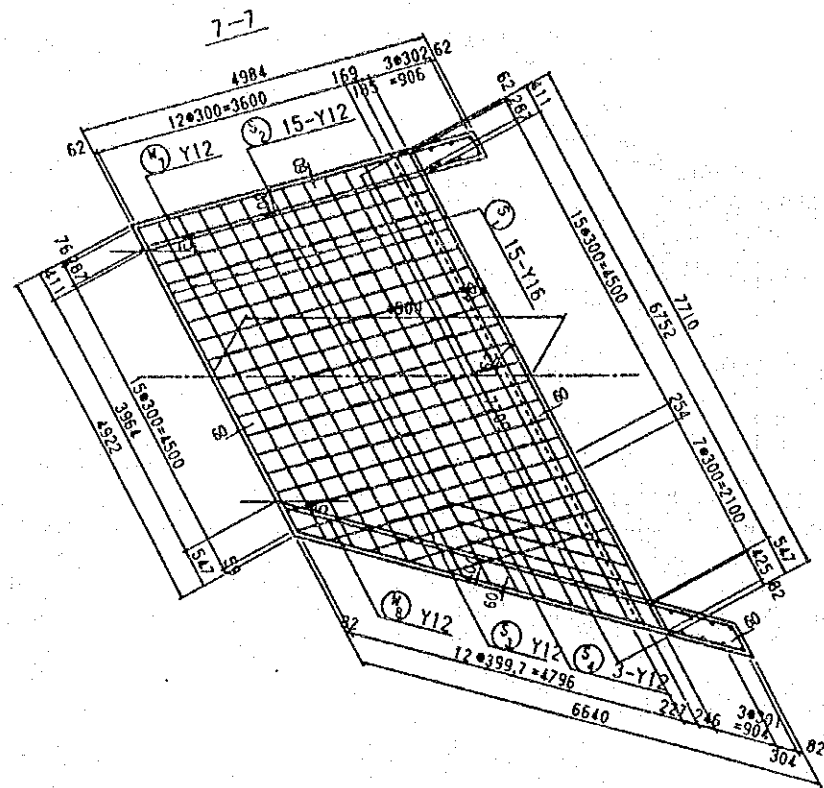
CHIEF ENGINEER (ROADS)
CHIEF SUPT ENG (DESIGN)

SEN SUPT. ENG (DESIGN)
SUPT ENGINEER (DESIGN)
PROJECT ENGINEER

SCALES
1:50

NAIROBI BYPASS
WATER BOX CULVERTS
CR 00+167.00 NGONG J.C B SLIP 2-1.40 5-1.00 (B)

Q
SHEET 142 OF 183



AERIAL PHOTO BY _____
 MAPPING BY _____
 SURVEYED BY _____
 TRACED BY _____
 LOCATION BY _____
 CHECKED BY _____

MOPW ROADS DEPT DRG NO.

REVISIONS	
DESCRIPTION	DATE

JAPAN INTERNATIONAL
 COOPERATION AGENCY

CHIEF ENGINEER (ROADS)
 CHIEF SUPT ENG (DESIGN)

SEN SUPT. ENG (DESIGN)
 SUPT ENGINEER (DESIGN)
 PROJECT ENGINEER

SCALES
 1 : 50

NAIROBI BYPASS

WATER BOX CULVERTS
 ON 00+167.00 NGONG J.C. & SLIP R=3.00 R=1.00 (10)

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 SHEET 14.3 OF 18.3