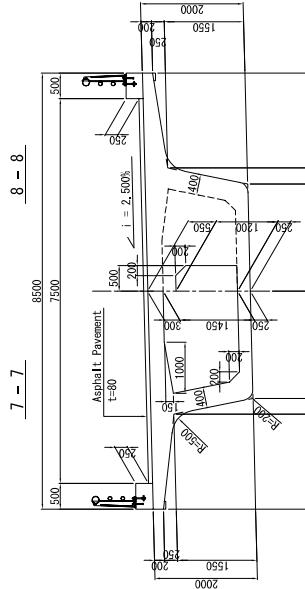
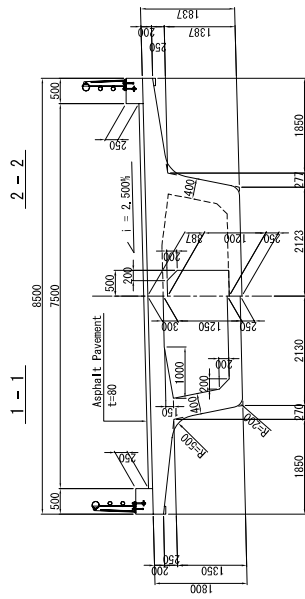


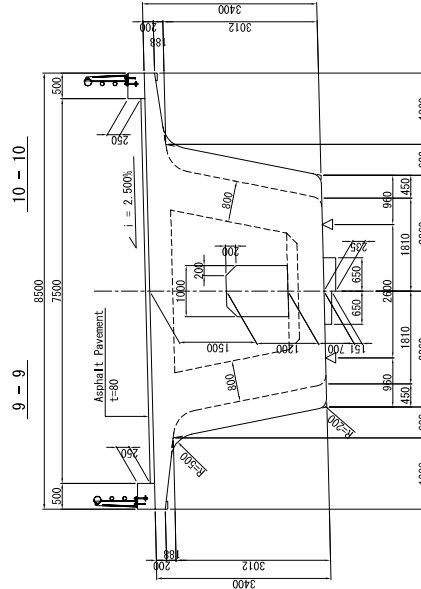
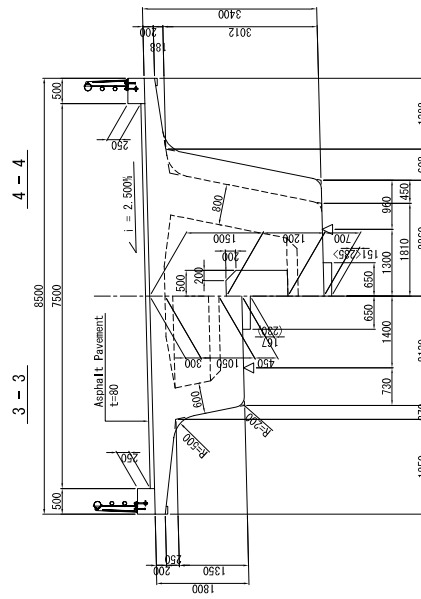
TAZARA F/O BRIDGE P5-P8 (West Bound) SUPERSTRUCTURE (2)

Cross Section S=1/50



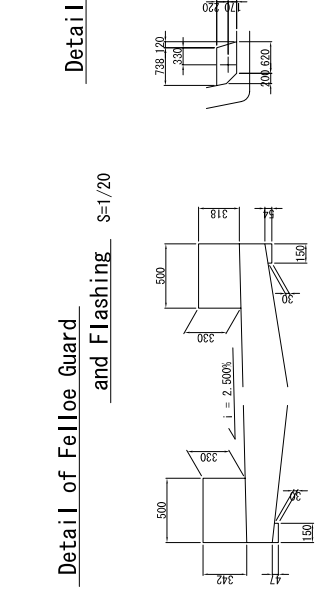
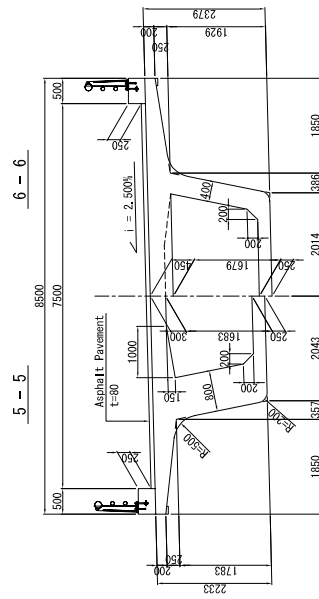
Design Condition

CATEGORY	PRESTRESSED CONCRETE ROAD BRIDGE
TYPE	3 SPAN PC CONTINUOUS BOX GIRDER BRIDGE (CAST-IN-PLACE)
BRIDGE LENGTH	155,000 (m)
GIRDER LENGTH	154,800 (m)
EFFECTIVE SPAN	44,400 + 65,000 + 44,400 (m)
WIDTH	TOTAL 8,500 (m) (0.500x7,500+0.500)
ANGLE	90°
DESIGN LOAD	B LIVE-LOAD (TYPE L)

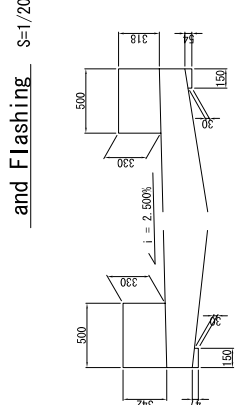


Material List

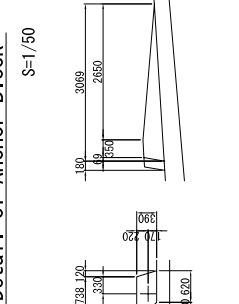
CONCRETE	PC-CABLE	DEFORMED BAR
DESIGN STRENGTH	TENSION UNIT	STRENGTH SEGMENT
AT THE DESIGN LOAD	SMR/TBL	YIELD POINT STRENGTH
AT PRESTRESSING	125/15.2	AT THE DEAD LOAD
ALLOWABLE COMPRESSIVE STRESS TO BENDING MOMENT	132/1.8	AT THE DESIGN LOAD
IMMEDIATELY AFTER TENSIONING	1850	AT SLAB
AT THE DESIGN LOAD	1800	
IMMEDIATELY AFTER TENSIONING	1600	
AT THE DESIGN LOAD	1440	
ALLOWABLE TENSILE STRESS TO BENDING MOMENT	1440	
IMMEDIATELY AFTER TENSIONING	1295	
AT THE DESIGN LOAD	1110	
ALLOWABLE TENSILE STRESS TO BENDING MOMENT	930/1080	
IMMEDIATELY AFTER TENSIONING	432/1.8	
AT THE DESIGN LOAD	4.78	
ALLOWABLE DIAGONAL TENSILE STRESS	0.92	
	1.88	
		30245
		345
		100
		180
		140



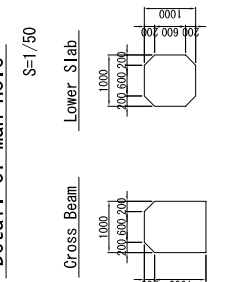
Detail of Felloe Guard and Flashing



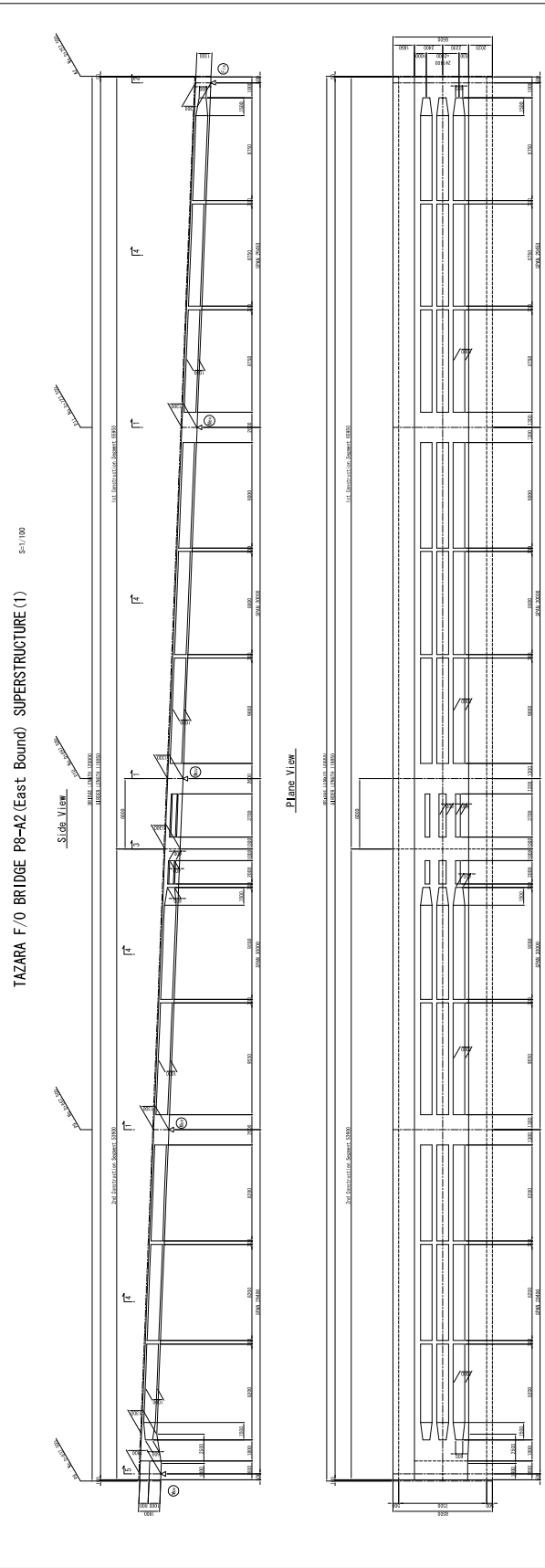
Detail of Anchor Block



Detail of Man Hole



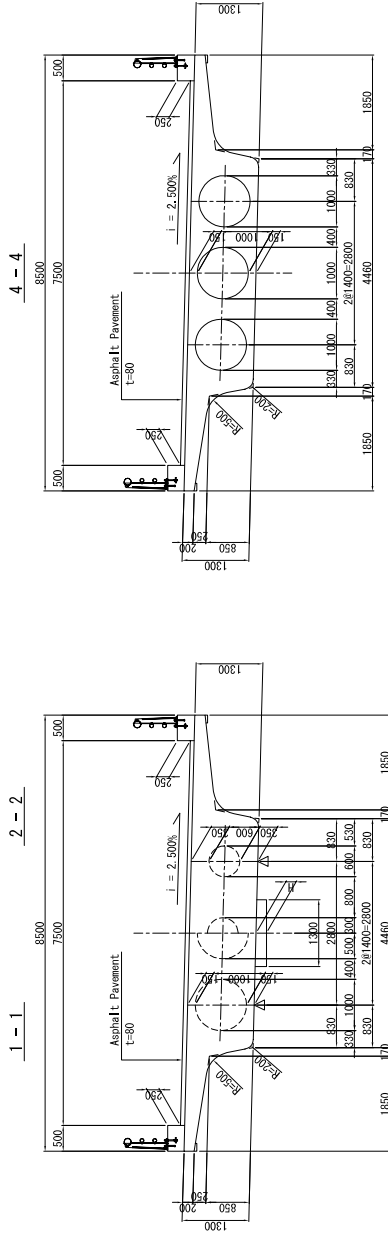
 TANROADS TANZANIA NATIONAL ROADS AGENCY P.O. Box 11364 DAR ES SALAAM	APPROVED: _____ PROJECT ENGINEER CHIEF EXECUTIVE	JAPAN INTERNATIONAL COOPERATION AGENCY CONSULTANT Oriental Consultants Co., LTD. Eight-Japan Engineering Consultants Inc., International Development Center of Japan Inc.	DESIGNED: _____ DRAWN: _____ CHECKED: _____ REVISIONS: _____	PROJECT: _____ Preparatory Survey on the Project for Improvement of TAZARA Intersection
	DATE: _____		DWG TITLE: TAZARA F/O BRIDGE P5-P8 (West Bound) SUPERSTRUCTURE(2)	
			SCALE: As shown	DATE: _____ DWG No.: _____
				Rev: _____



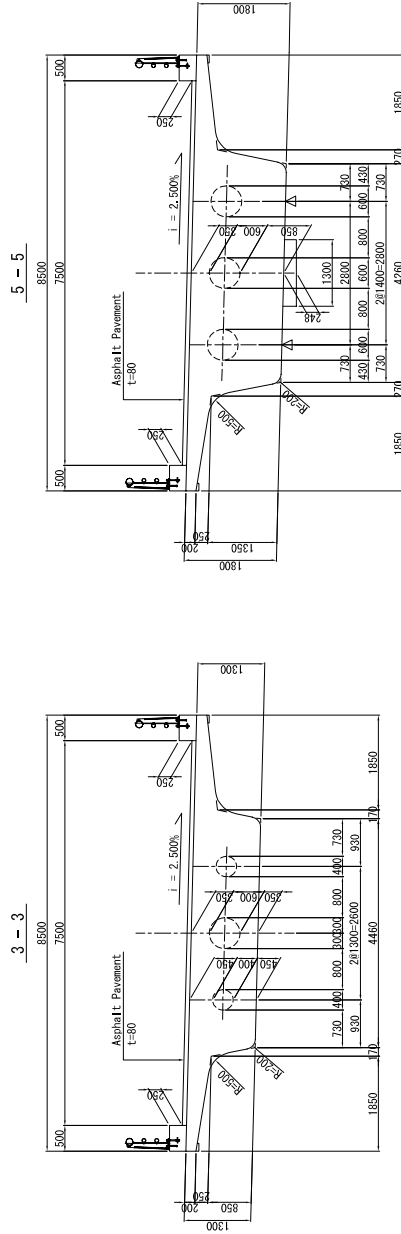
 JICA INTERNATIONAL COOPERATION AGENCY CONSULTANTS CO., LTD. (Original Consultants Co., Ltd.) Engineering Consultants Inc. International Development Center of Japan Inc.	PROJECT TAZARA F/O BRIDGE P8-A2 (East Bound) SUPERSTRUCTURE (1)	DRAWING NO. P8-A2-100	SHEET NO. 100/100	DATE 2010.10.10	SCALE 1/100	DRAWN BY [Name]	CHECKED BY [Name]	APPROVED BY [Name]
	PROJECT TAZARA F/O BRIDGE P8-A2 (East Bound) SUPERSTRUCTURE (1)	DRAWING NO. P8-A2-100	SHEET NO. 100/100	DATE 2010.10.10	SCALE 1/100	DRAWN BY [Name]	CHECKED BY [Name]	APPROVED BY [Name]

TAZARA F/O BRIDGE P8-A2 (East Bound) SUPERSTRUCTURE (2)

Cross Section s=1/50



H	P9	P10	P11	A2
	193	193	175	157



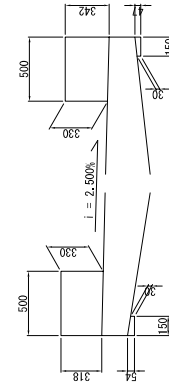
Design Condition

CATEGORY	PRESTRESSED CONCRETE ROAD BRIDGE
TYPE	4 SPAN PC CONTINUOUS HOLLOW SLAB BRIDGE (CAST-IN-PLACE)
BRIDGE LENGTH	120,000 (m)
GIRDER LENGTH	119,850 (m)
EFFECTIVE SPAN	29,400 ± 2930,000 + 29,450 (m)
TOTAL	8,500 (m) (0,500+7,500+0,500)
WIDTH	90°
DESIGN LOAD	B LIVE-LOAD (TYPE L)

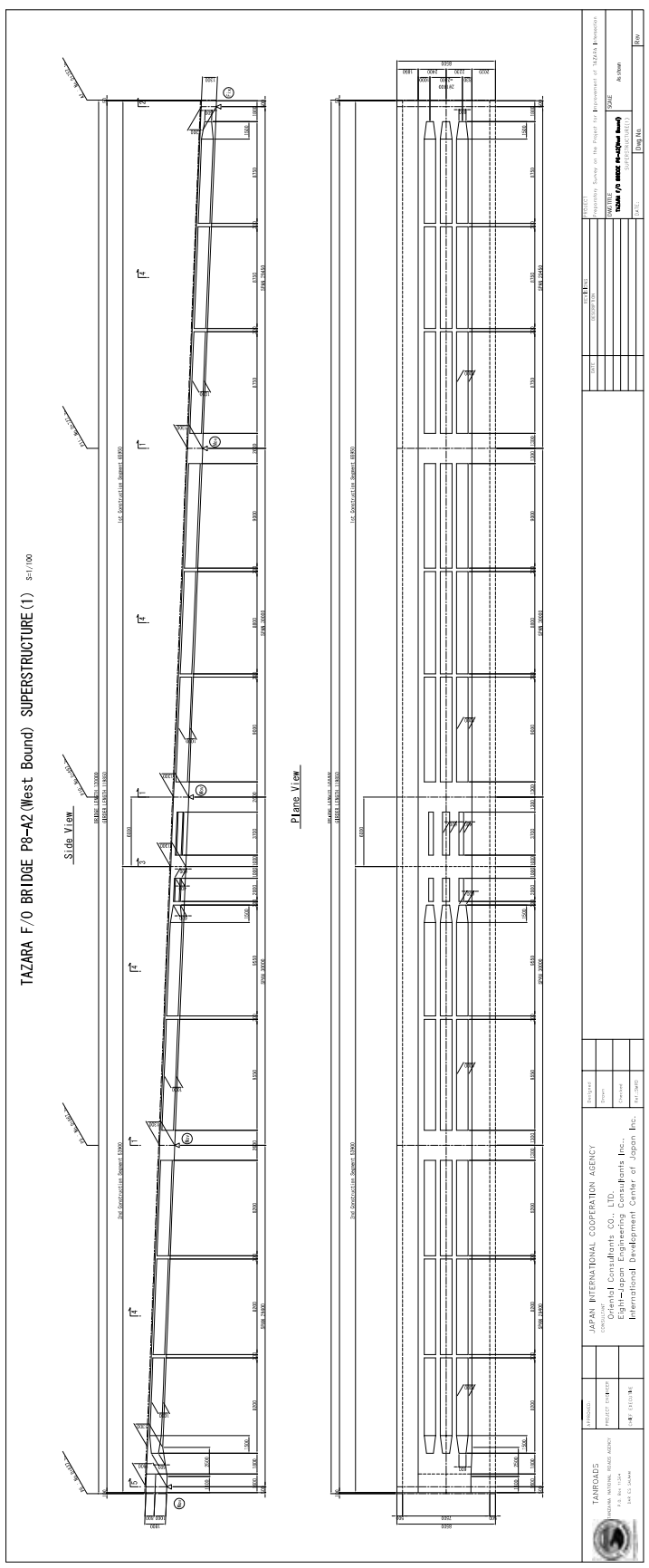
Material List

	(N/mm ²)	
CONCRETE	DESIGN STRENGTH	AT THE DESIGN LOAD
	AT PRESTRESSING	36.0
	ALLOWABLE COMPRESSIVE STRESS TO BENDING MOMENT	IMMEDIATELY AFTER TENSION
	AT THE DESIGN LOAD	26.0
	ALLOWABLE TENSILE STRESS TO BENDING MOMENT	IMMEDIATELY AFTER TENSION
	AT THE DESIGN LOAD	16.40
PC-CABLE	AVERAGE SHEARING STRESS	0.51
	MAXIMUM SHEARING STRESS	4.78
	ALLOWABLE DIAGONAL TENSILE STRESS	0.92
	AT THE DEAD LOAD	0.92
	AT THE DESIGN LOAD	1.88
	TENDON UNIT	SPRINTAL 12575.2
DEFORMED BAR	TENSILE STRENGTH	1850
	YIELD POINT STRENGTH	1600
	ALLOWABLE TENSILE STRESS	AT PRESTRESSING
	IMMEDIATELY AFTER TENSION	1440
	AT THE DESIGN LOAD	1295
	STRENGTH SEGMENT	1110
SR045	3045	
YIELD POINT STRENGTH	AT THE DEAD LOAD	
AT THE DESIGN LOAD	100	
ALLOWABLE TENSILE STRESS	AT SLAB	
	140	

Detail of Fellow Guard and Flashing s=1/20



 TANROADS TANZANIA NATIONAL ROADS AGENCY P.O. Box 11364 DAR ES SALAAM	APPROVED:	JAPAN INTERNATIONAL COOPERATION AGENCY CONSULTANT Oriental Consultants Co., LTD. Eight-Japan Engineering Consultants Inc., International Development Center of Japan Inc.		DESIGNED: DRAWN: CHECKED: REVISOR:	DATE:	REVISIONS DESCRIPTION	PROJECT Preparatory Survey on the Project for Improvement of TAZARA Intersection
	PROJECT ENGINEER CHIEF EXECUTIVE	DWG TITLE TAZARA F/O BRIDGE P8-A2(East Bound)	SCALE As shown	DATE:	DWG No.	SUPERSTRUCTURE(2)	Rev



TAZARA F/O BRIDGE P8-A2 (West Bound) SUPERSTRUCTURE (2)

Cross Section S=1/50

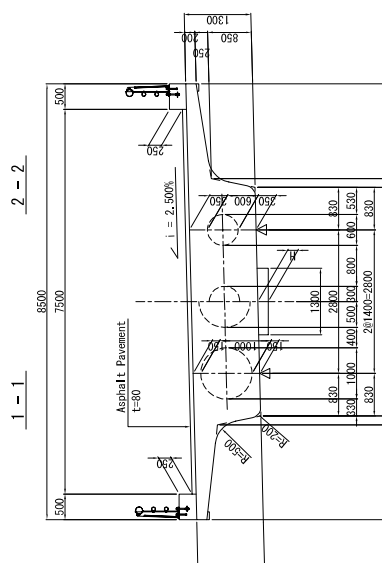
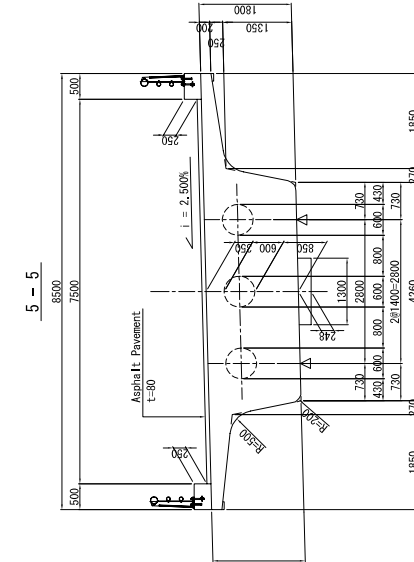
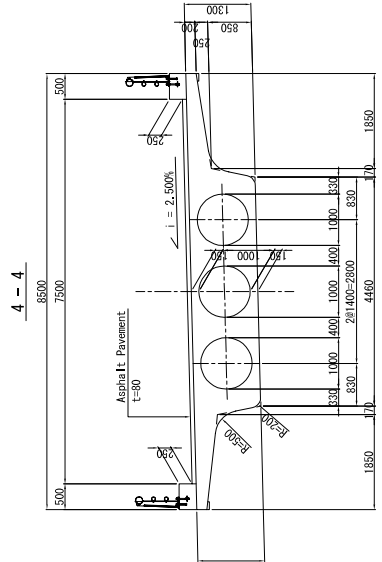
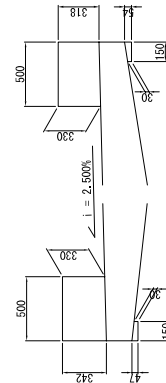
Design Condition

CATEGORY	PRESTRESSED CONCRETE ROAD BRIDGE
TYPE	4 SPAN PC CONTINUOUS HOLLOW SLAB BRIDGE (CAST-IN-PLACE)
BRIDGE LENGTH	120,000 (m)
GIRDER LENGTH	119,850 (m)
EFFECTIVE SPAN	29,400 = 2630,000 ÷ 90,450 (m)
TOTAL	8,500 (m) (0,500×7,500+0,500)
WIDTH	307
ANGLE	
DESIGN LOAD	B LIVE-LOAD (TYPE L)

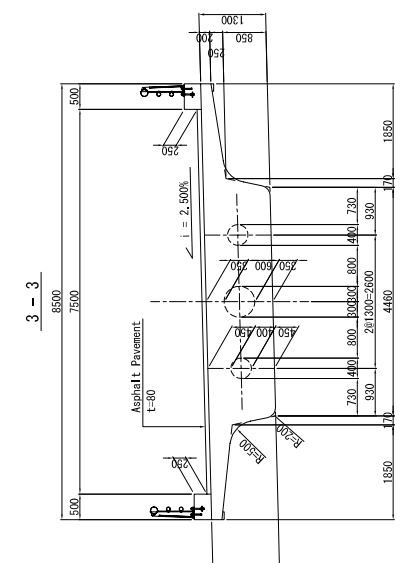
Material List

		(N/mm ²)
CONCRETE	DESIGN STRENGTH	AT THE DESIGN LOAD 36.0
	ALLOWABLE COMPRESSIVE STRESS TO BENDING MOMENT	AT PRESTRESSING 30.6
	ALLOWABLE TENSILE STRESS TO BENDING MOMENT	IMMEDIATELY AFTER TENSION AT THE DESIGN LOAD 16.40
	ALLOWABLE TENSILE STRESS TO BENDING MOMENT	IMMEDIATELY AFTER TENSION AT THE DESIGN LOAD 12.80
	AVERAGE SHEARING STRESS	AT THE DESIGN LOAD -1.38
	MAXIMUM SHEARING STRESS	AT THE DESIGN LOAD 0.51
ALLOWABLE DIAGONAL TENSILE STRESS	AT THE DEAD LOAD	4.78
	AT THE DESIGN LOAD	0.92
	AT THE DESIGN LOAD	1.88
PC-CABLE	TENSION UNIT	SHRITRAL 12815,2
	TENSILE STRENGTH	1850
	YIELD POINT STRENGTH	1800
	ALLOWABLE TENSILE STRESS	AT PRESTRESSING 1440
	ALLOWABLE TENSILE STRESS	IMMEDIATELY AFTER TENSION AT THE DESIGN LOAD 1295
	STRENGTH SEGMENT	1110
DEFORMED BAR	YIELD POINT STRENGTH	3846
	ALLOWABLE TENSILE STRESS	AT THE DEAD LOAD 100
	ALLOWABLE TENSILE STRESS	AT THE DESIGN LOAD 180
	ALLOWABLE TENSILE STRESS	AT SLAB 140

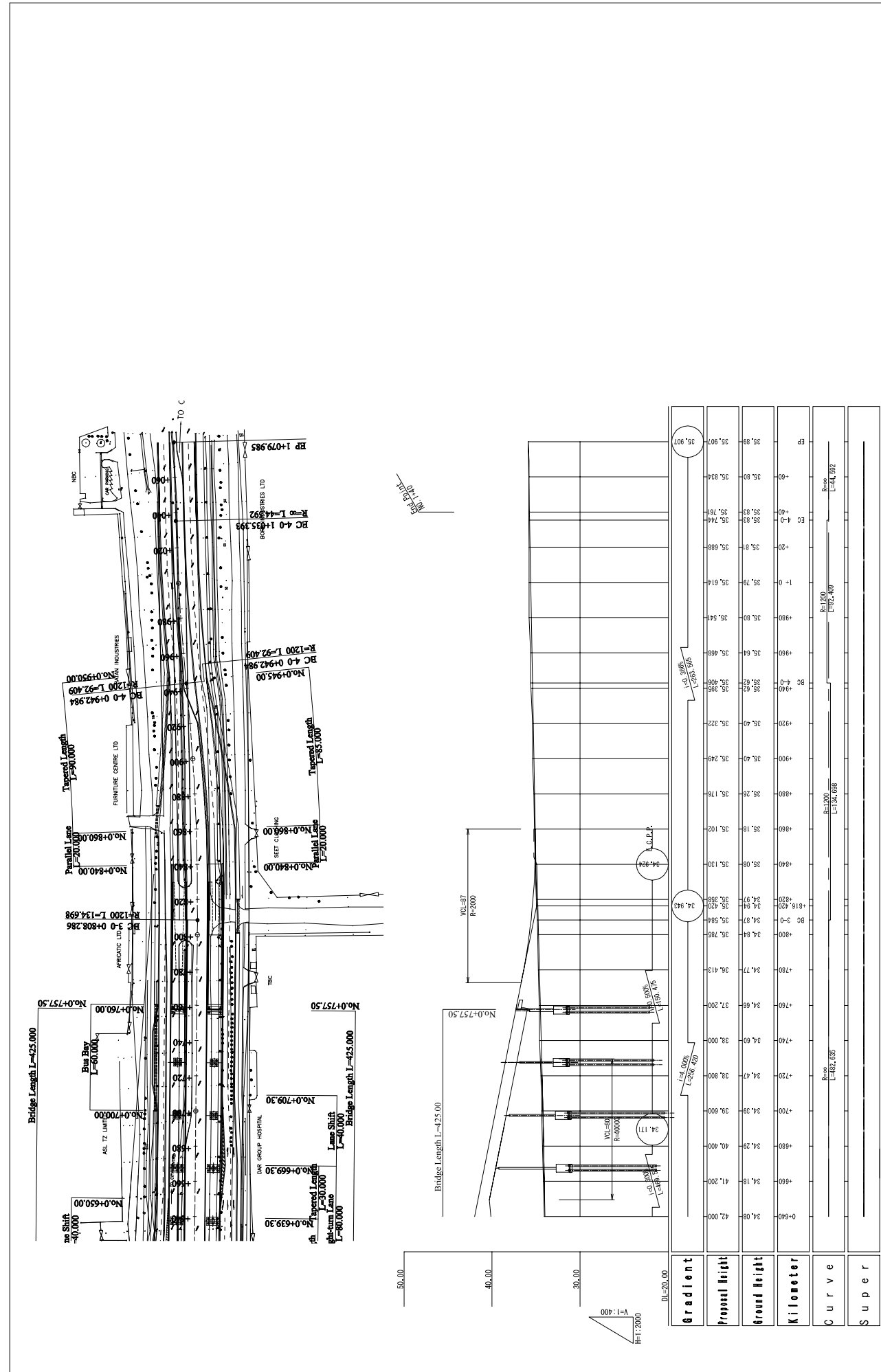
Detail of Felloe Guard and Flashing S=1/20



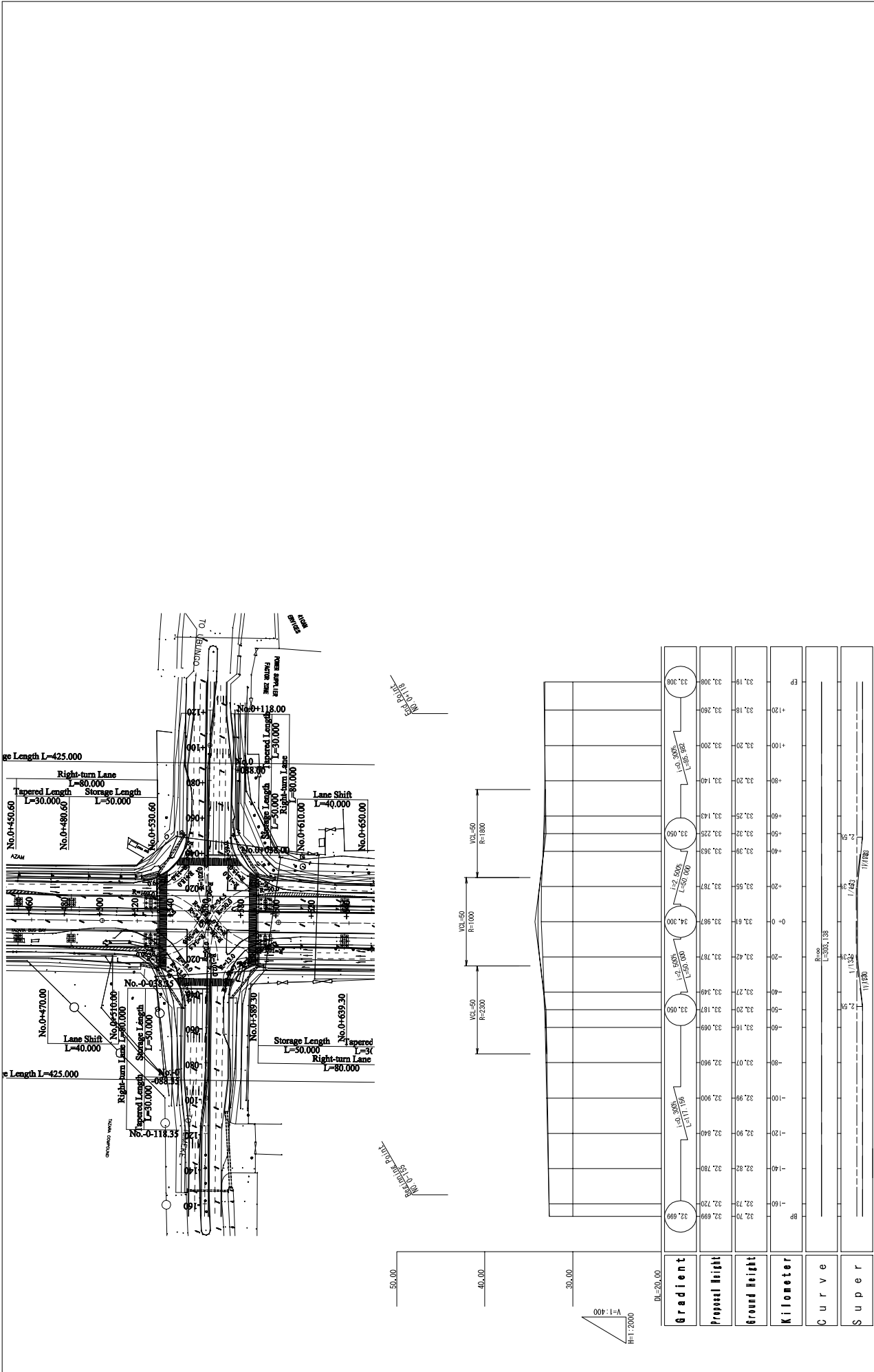
	P9	P10	P11	A2
H	193	193	175	157




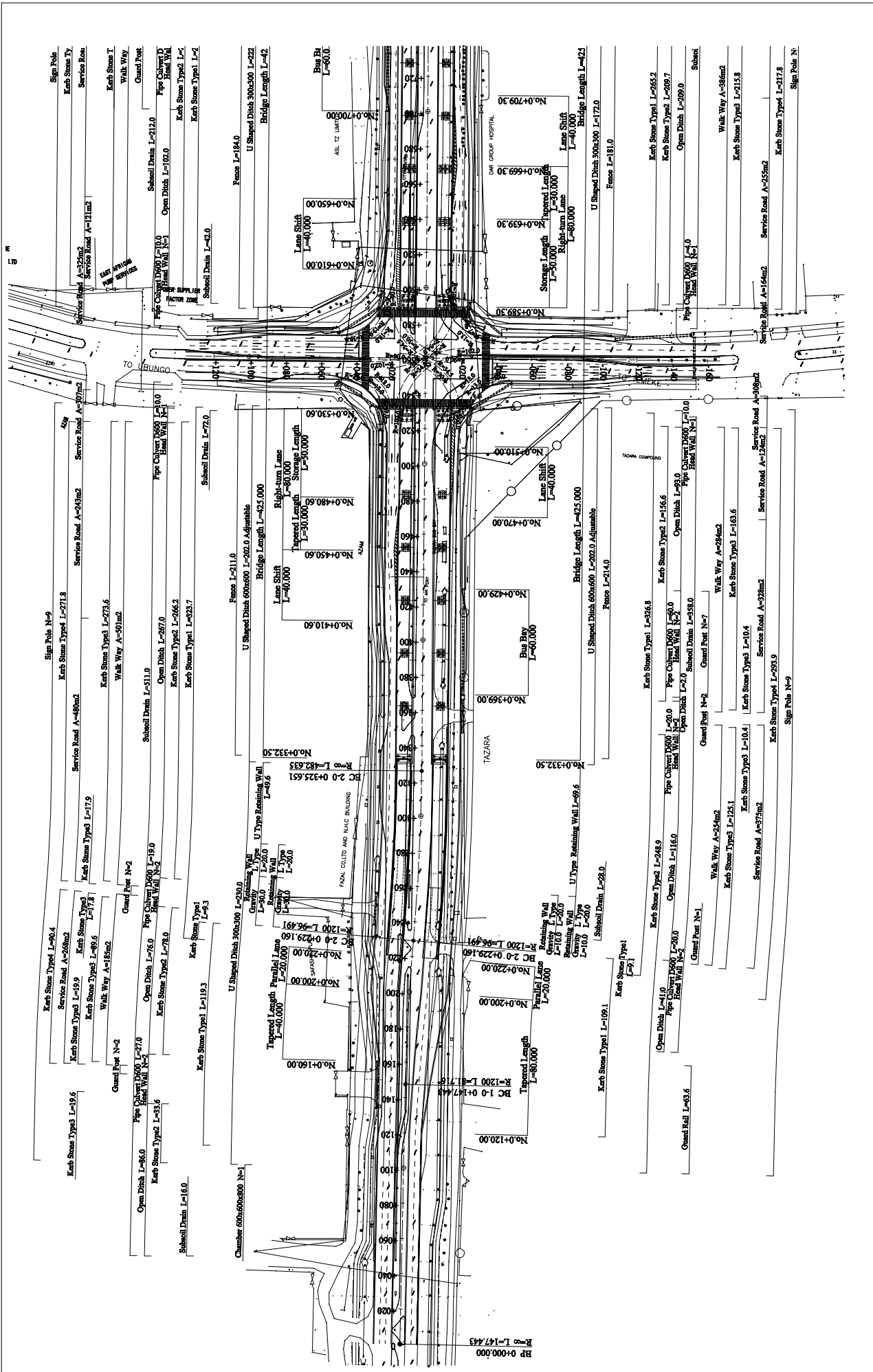
 TANROADS TANZANIA NATIONAL ROADS AGENCY P.O. Box 11364 DAR ES SALAAM	APPROVED: PROJECT ENGINEER CHIEF EXECUTIVE	JAPAN INTERNATIONAL COOPERATION AGENCY CONSULTANT Oriental Consultants Co., LTD. Eight-Japan Engineering Consultants Inc., International Development Center of Japan Inc.	REVISIONS DATE DESCRIPTION Designed Drawn Checked Ref:SMRD
PROJECT Preparatory Survey on the Project for Improvement of TAZARA Intersection		DWG TITLE TAZARA F/O BRIDGE P8-A2(West Bound) SUPERSTRUCTURE(2)	
DATE: _____		SCALE As shown	
Dwg. No. _____		Rev _____	




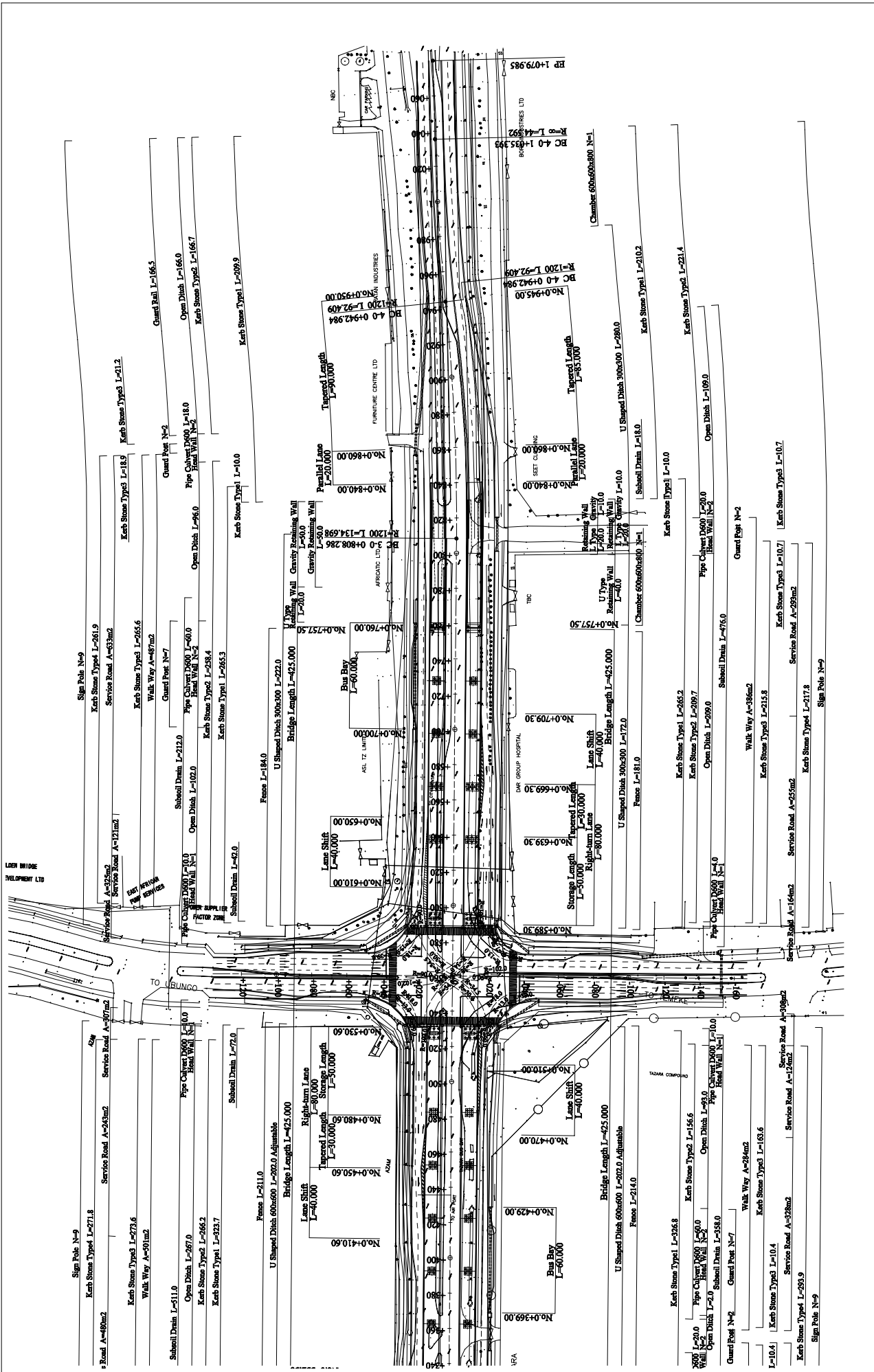
<p>TANROADS TANZANIA NATIONAL ROADS AGENCY P.O. Box 11364 DAR ES SALAM</p>		<p>APPROVED:</p> <p>PROJECT ENGINEER</p> <p>CHIEF EXECUTIVE</p>		<p>JAPAN INTERNATIONAL COOPERATION AGENCY CONSULTANT</p> <p>Oriental Consultants CO., LTD. Eight-Japan Engineering Consultants Inc., International Development Center of Japan Inc.,</p>		<p>DESIGNED</p> <p>DRAWN</p> <p>CHECKED</p> <p>REVISIONS</p>		<p>DATE</p> <p>DESCRIPTION</p>		<p>PROJECT</p> <p>Preparatory Survey on the Project for Improvement of TAZARA Intersection</p>	
<p>SCALE</p> <p>As Shown</p>		<p>DWG TITLE</p> <p>PLAN PROFILE (Julius K Nyere Rd)</p>		<p>DATE:</p>		<p>Dwg. No.</p>		<p>Rev</p>		<p>Rev</p>	




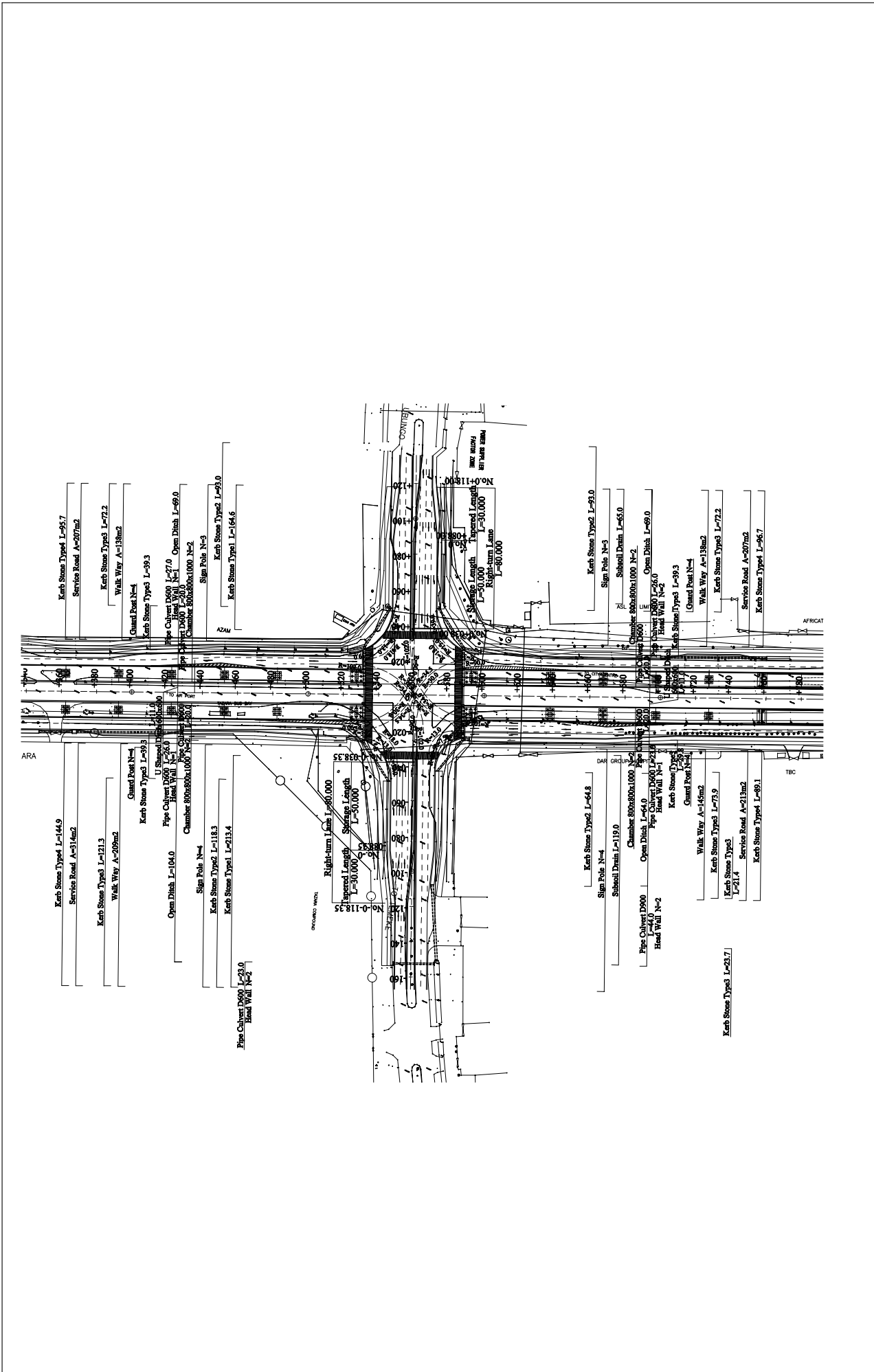
 <p>TANROADS TANZANIA NATIONAL ROADS AGENCY P.O. Box 11364 DAR ES SALAM</p>	<p>APPROVED:</p>	<p>PROJECT ENGINEER</p>	<p>CHIEF EXECUTIVE</p>	<p>JAPAN INTERNATIONAL COOPERATION AGENCY CONSULTANT Oriental Consultants CO., LTD. Eight-Japan Engineering Consultants Inc., International Development Center of Japan Inc.,</p>	<p>Designed</p>	<p>Drawn</p>	<p>Checked</p>	<p>Ref.:SMRD</p>	<p>DATE</p>	<p>REVISIONS</p>	<p>PROJECT</p>
	<p>PROJECT ENGINEER</p>	<p>CHIEF EXECUTIVE</p>	<p>JAPAN INTERNATIONAL COOPERATION AGENCY CONSULTANT Oriental Consultants CO., LTD. Eight-Japan Engineering Consultants Inc., International Development Center of Japan Inc.,</p>	<p>DATE</p>	<p>DESCRIPTION</p>	<p>PROJECT</p>					
<p>SCALE</p>	<p>As Shown</p>	<p>DATE</p>	<p>Dwg. No.</p>	<p>Rev</p>	<p>PROJECT</p>						
<p>PROJECT</p>	<p>Preparatory Survey on the Project for Improvement of TAZARA Intersection</p>	<p>SCALE</p>	<p>As Shown</p>	<p>DATE</p>	<p>PROJECT</p>						




 <p>TANROADS TANZANIA NATIONAL ROADS AGENCY P.O. Box 11364 DAR ES SALAM</p>		<p>APPROVED:</p> <p>PROJECT ENGINEER</p> <p>CHEIF EXECUTIVE</p>		<p>JAPAN INTERNATIONAL COOPERATION AGENCY CONSULTANT Oriental Consultants CO., LTD. Eight-Japan Engineering Consultants Inc., International Development Center of Japan Inc.,</p>		<p>DESIGNED</p> <p>DRAWN</p> <p>CHECKED</p> <p>REL:SMRD</p>		<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>		DATE	DESCRIPTION											<p>PROJECT Preparatory Survey on the Project for Improvement of TAZARA Intersection</p> <p>DWG TITLE PLAN(1)(Julius K Nyere Rd)</p> <p>SCALE 1:2000</p> <p>DATE: DWG. No. Rev</p>	
DATE	DESCRIPTION																						

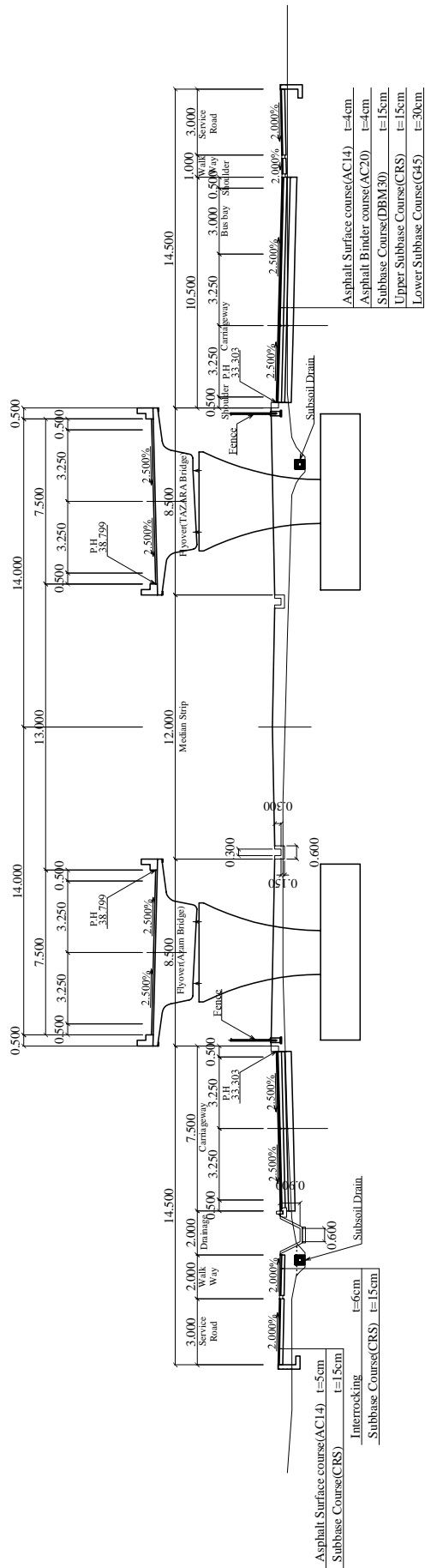


 TANROADS TANZANIA NATIONAL ROADS AGENCY P.O. Box 11364 DAR ES SALAAM		APPROVED: _____ PROJECT ENGINEER CHIEF EXECUTIVE		JAPAN INTERNATIONAL COOPERATION AGENCY CONSULTANT Oriental Consultants CO., LTD. Eight-Japan Engineering Consultants Inc., International Development Center of Japan Inc.,		Designed _____ Drawn _____ Checked _____ Ref.:SMD		REVISIONS DATE DESCRIPTION		PROJECT Preparatory Survey on the Project for Improvement of TAZARA Intersection DWG TITLE PLAN(2)(Julius K Nyere Rd) SCALE 1:2000 DATE: _____ DWG. No. _____ Rev _____	
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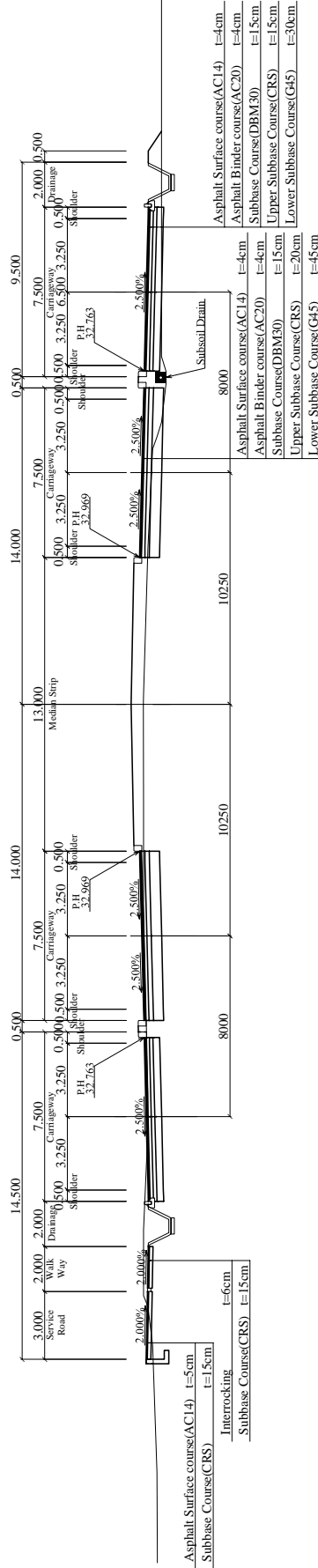


 <p>TANROADS TANZANIA NATIONAL ROADS AGENCY P.O. Box 11364 DAR ES SALAAM</p>	APPROVED:	JAPAN INTERNATIONAL COOPERATION AGENCY CONSULTANT	DESIGNED	DATE	REVISIONS	PROJECT
	PROJECT ENGINEER	Original Consultants CO., LTD.	Drawn		DESCRIPTION	Preparatory Survey on the Project for Improvement of TAZARA Intersection
CHIEF EXECUTIVE	Eight-Japan Engineering Consultants Inc., International Development Center of Japan Inc.	Checked				DWG TITLE
		Ref.:SWRD				PLAN(3)(Nelson Mandela Rd)
						SCALE
						1:2000
						DATE:
						Dwg. No.
						Rev


Sta. 0+400



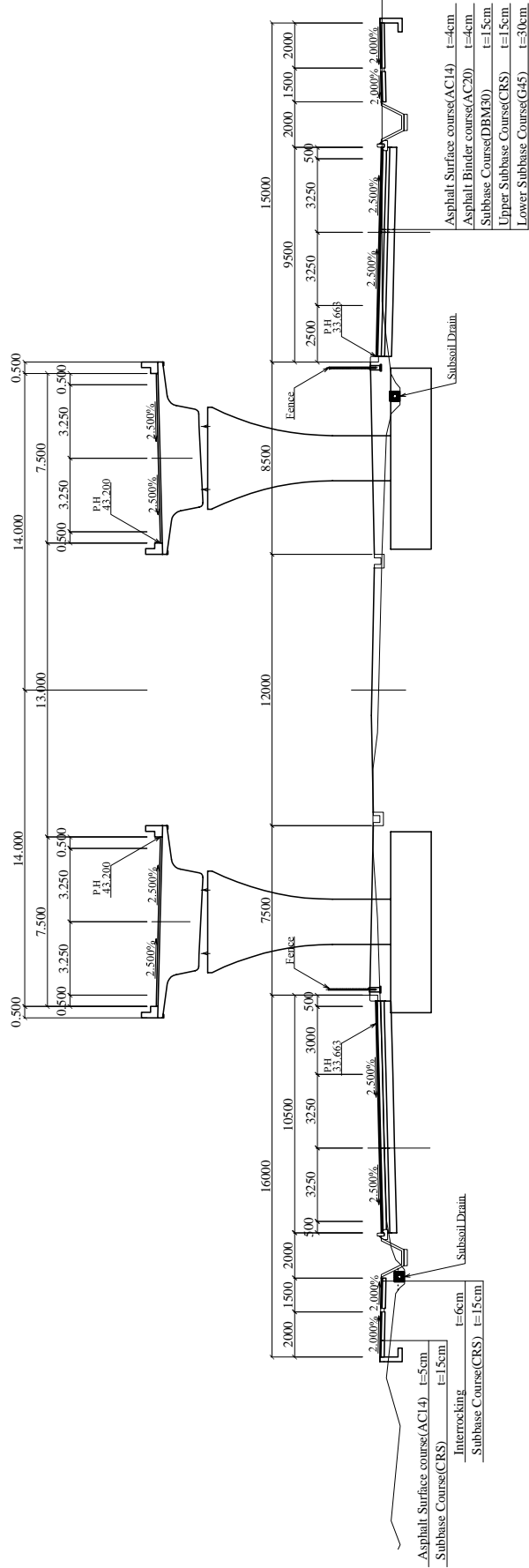
Sta. 0+220



Typical Cross Section (Nyerere Road)

 <p>TANROADS TANZANIA NATIONAL ROADS AGENCY P.O. Box 11364 DAR ES SALAAM</p>	APPROVED:	JAPAN INTERNATIONAL COOPERATION AGENCY CONSULTANT	DESIGNED:	REVISIONS	PROJECT:
	PROJECT ENGINEER	Original Consultants CO., LTD. Eight-Japan Engineering Consultants Inc., International Development Center of Japan Inc.,	DRAWN:	DESCRIPTION	Preparatory Survey on the Project for Improvement of TAZARA Intersection
CHIEF EXECUTIVE		CHECKED:		DWG TITLE	SCALE
		REF./SWRD:		Typical Cross Section(1)	As shown
				DATE:	Rev

Sta.0+520



Intersection (Nyerere Road)

Sta.0+400

TANROADS TANZANIA NATIONAL ROADS AGENCY P.O. Box 11364 DAR ES SALAAM	APPROVED:	JAPAN INTERNATIONAL COOPERATION AGENCY CONSULTANT	DESIGNED:	REVISIONS	PROJECT:
	PROJECT ENGINEER	Oriental Consultants CO., LTD. Eight-Japan Engineering Consultants Inc., International Development Center of Japan Inc.,	DRAWN:	DATE:	Preparatory Survey on the Project for Improvement of TAZARA Intersection
CHIEF EXECUTIVE	Checked Ref.:SWRD	DWG TITLE Typical Cross Section(?)	SCALE As shown	DATE:	PROJECT TITLE
Dwg. No.	DATE:	DATE:	DATE:	DATE:	DATE: