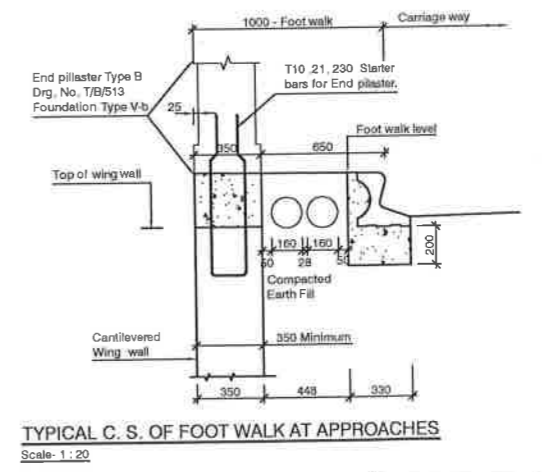


TENDER ISSUE



- NOTES**
- All dimensions are in millimetres unless otherwise stated.
 - This drawing to be read in conjunction with Drg.No. NP/B/1554/2 and standard specifications for constructions and maintenance of roads and bridges.
 - Dimensions shall not be obtained by scaling.
 - Any discrepancies in the contract drawings shall be referred to the Engineer for revisions before proceeding with work.
 - Any setting out dimensions shown on drawing shall be verified with Engineers.
 - All workmanship and materials are to be in accordance with the requirements of the specifications and by laws of the authority.
 - Additional weep holes are to be provided if necessary to suit site condition.
 - If hard soil strata is encountered at base slab level, preparation of sand bed could be omitted, after consulting the Bridge Design Office, Road Development Authority.
 - The height of the structure shall be suitably adjusted by keeping maximum height shown here in.
 - Top slab thickness is constant throughout the Bridge.
 - Finish level of the bridge shall be confirmed by the site staff.
 - Design bearing pressure 100 kN/m²

DRG. INDEX

- General Details..... NP/B/1554 / 1
- R.F. Details..... NP/B/1554 / 2

**KADDUWAN - MYLIDDY ROAD (B-171)
BOX BRIDGE NO. 4/1 km (Reconstruction)**

**GENERAL
DETAILS**

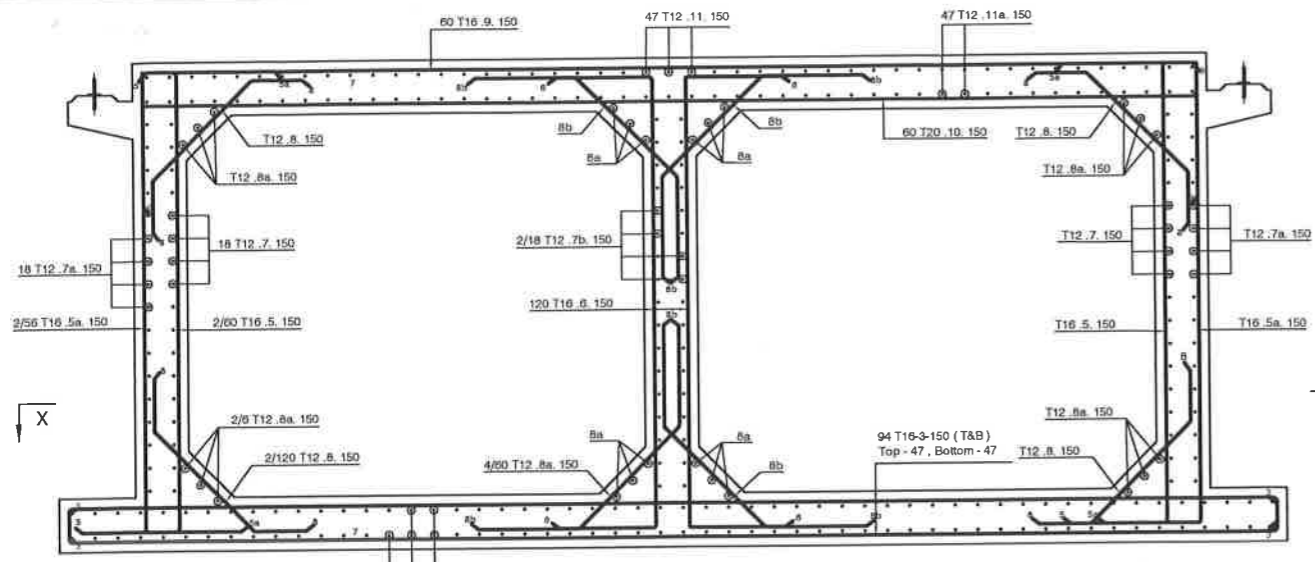
REV.	DESCRIPTION	BY	DATE

**MINISTRY OF HIGHER EDUCATION & HIGHWAYS - SRI LANKA
ROAD DEVELOPMENT AUTHORITY**

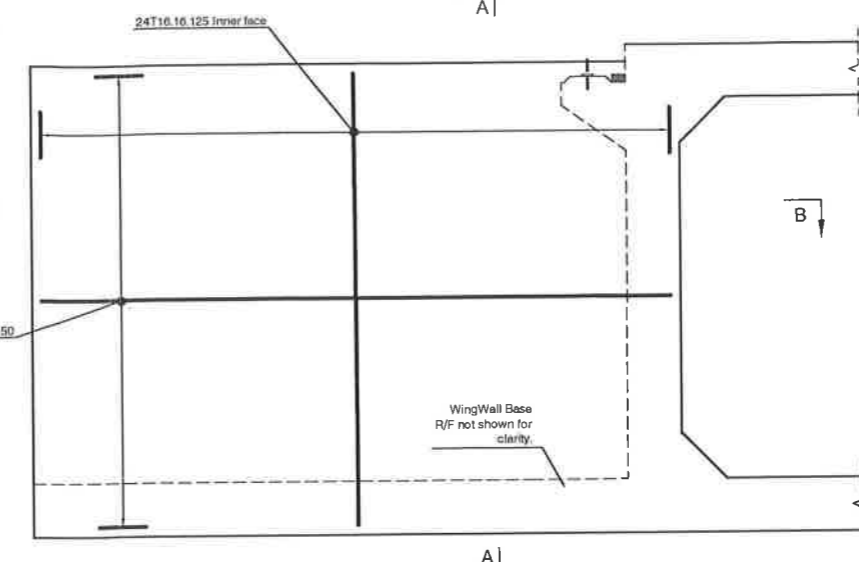
DESIGNED : P. Ramachandran
DRAWN : Anja Madugeduru
CHECKED :
FILE NO. : G - 20
DRG. NO. NP/B/1554 / 1

NON ENGINEER DESIGNS
DEPUTY DIRECTOR - BRIDGE DESIGNS
DATE:

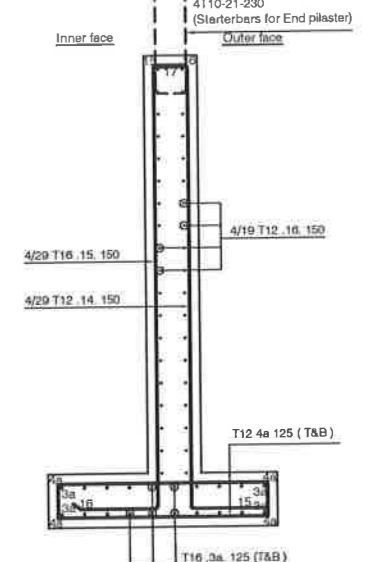
PROPERTY DIRECTOR GENERAL (E.D.)
ADDITIONAL DIRECTOR GENERAL (E.B.)
FOR DIRECTOR GENERAL



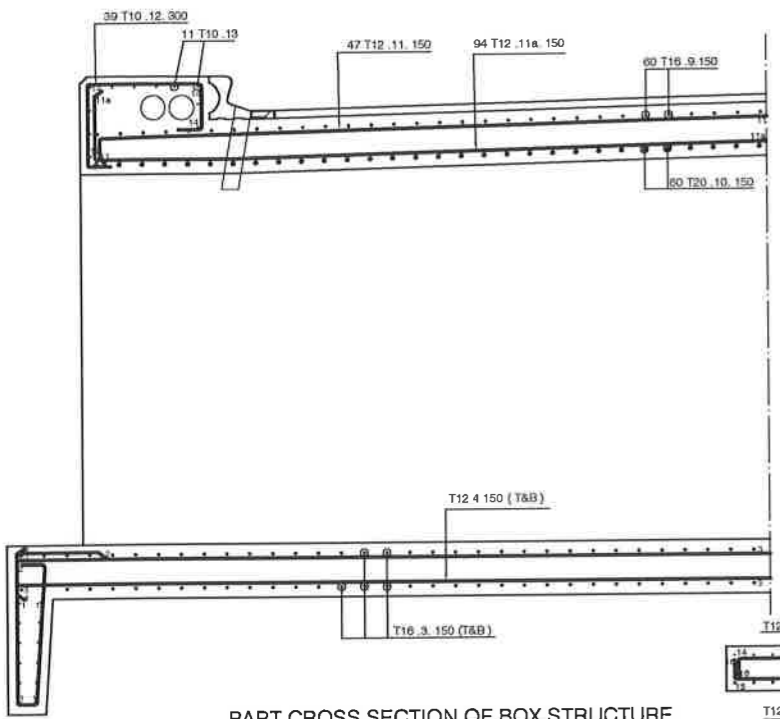
LONGITUDINAL SECTION
SCALE - 1:25



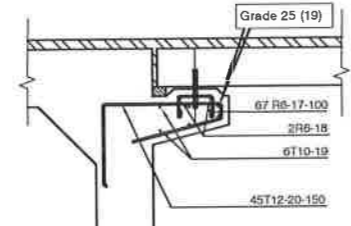
SECTIONAL ELEVATION OF WINGWALL
SCALE - 1:25



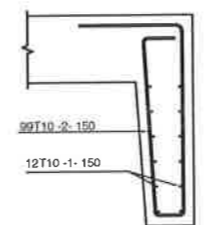
A - A
SCALE - 1:25



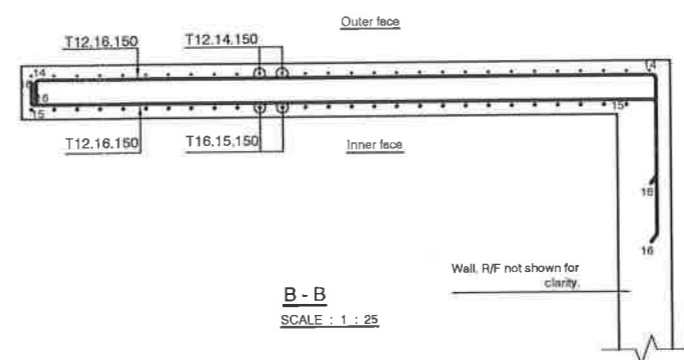
PART CROSS SECTION OF BOX STRUCTURE
SCALE - 1:25



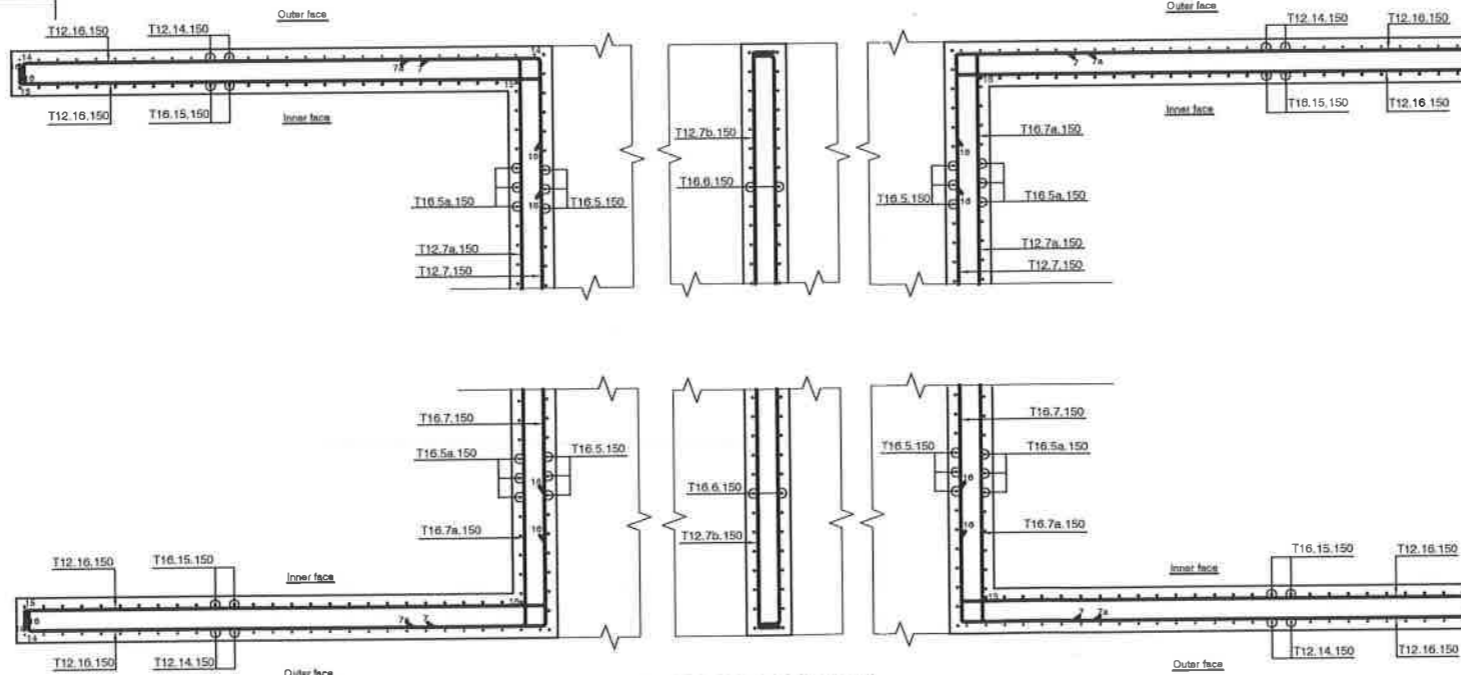
R.F. DETAIL OF CORBEL FOR APPROACH SLAB
Scale : 1 : 20



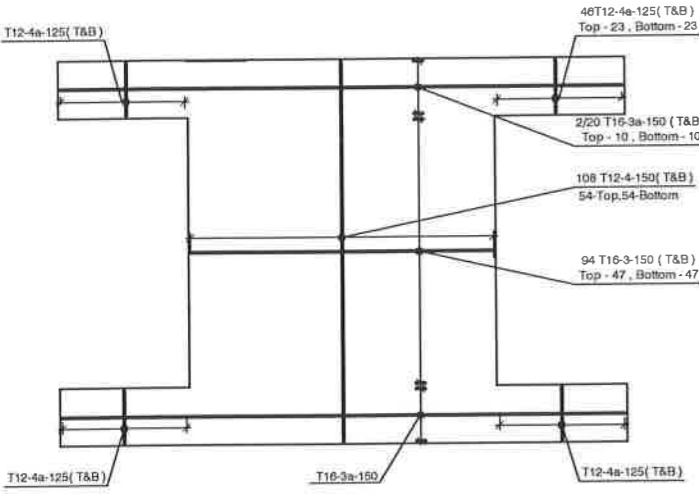
R.F. DETAILS OF DROPWALL
Scale : 1 : 20



B - B
SCALE : 1 : 25



PART SECTIONAL PLAN AT X-X
SCALE - 1 : 30



DETAILS OF BASE SLAB
Scale - 1:100

SCHEDULE OF REINFORCEMENT								Bending	
Member	Bar Mark	Type & Size	Nos of Mbrs	No. of Bars in each	Total No	Length of each Bar in (mm)	Total Length in (m)	Weight In (kg)	
Drop Wall	1	T10	2	12	24	14720	353	218	14720
	2	T10	2	99	198	2810	556	343	2810
Base Slab	3	T18	1	94	94	8360	788	1242	8360
	3a	T18	1	2x20	40	15364	615	971	15364
	4	T12	1	108	108	10310	1113	991	10310
	4a	T12	1	4x48	184	1810	333	299	1810
Walls	5	T18	2	60	120	3885	464	733	3885
	5a	T18	2	56	112	4545	509	804	4545
	6	T18	1	2x60	120	4290	515	813	4290
	7	T12	2	18	36	10190	367	326	10190
	7a	T12	2	18	36	10190	367	326	10190
	7b	T12	1	2x18	36	9310	335	298	9310
	8	T12	2	2x60	240	1700	408	363	1700
	8a	T12	4	2x3	24	8870	213	189	8870
Top Slab	9	T18	1	60	60	8680	521	823	8680
	10	T20	1	60	60	7360	442	1091	7360
	11	T12	1	47	47	9310	438	389	9310
	11a	T12	1	47	47	9540	448	399	9540
Footwall	12	T10	2	39	78	1850	144	89	1850
	13	T10	2	11	22	11230	247	152	11230
Wing Wall	14	T12	4	29	116	3630	421	375	3630
	15	T18	4	29	116	3630	421	375	3630
Corbel for approach slab	16	T12	4	19	76	4980	215	191	4980
	17	R6	2	2	4	8610	26	6	8610
	18	R6	2	2	4	8610	26	6	8610
Starter bar for End Pierlar	19	T10	2	6	12	6810	79	49	6810
	20	T12	2	45	90	1585	143	127	1585

NOTE: This R/F schedule is indicative only. The contractor shall be responsible for producing his own R/F schedule.

NOTES - REINFORCEMENT

- All bars marked 'R' shall be hot rolled mild steel plain bars of yield strength not less than 250 N/mm².
- All bars marked 'T' shall be high yield deformed bars of yield strength not less than 460 N/mm².
- The bars shall be bent in accordance with the specification.
- Bars of cut length larger than the supplied length should be spliced with a lap length = 55 x bar diameter and splicing should be staggered.
- Type of form work for foundation slab is rough, all other concrete works are wrought.
- Clear cover to reinforcement (out side of stirrups or ties shall be)

	Formed & exposed	not formed
Foundation	65	65
Wing wall	65	65

CONCRETE GRADE

- | | |
|----------------------------------|------------------|
| 01. Box structures & wing wall | - C 30 / 37 (20) |
| 02. Foot walk on deck and ramp | - C 30 / 37 (20) |
| 03. Lower kerb | - C 20 / 25 (20) |
| 04. Screed under foundation slab | - C 12 / 15 (20) |



*All C 30 / 37 Concrete should be satisfied :
a. Maximum Water Cement ratio (W/C): 0.45
b. Minimum Cement Content : 300 kg

KADDUWAN - MYLIDDY ROAD (B-171)
BOX BRIDGE NO. 4/1 km (Reconstruction)

R/F DETAILS

MINISTRY OF HIGHER EDUCATION & HIGHWAYS - SRI LANKA
ROAD DEVELOPMENT AUTHORITY

DESIGNED : F. Ramachandran	SENIOR ENGINEER - DESIGNS	DEPUTY DIRECTOR GENERAL (S.D.)
DRAWN : Aaha Madagedara	DEPUTY DIRECTOR - BRIDGE DESIGN	ADDITIONAL DIRECTOR GENERAL (E.G.) FOR DIRECTOR GENERAL
CHECKED :		
FILE NO. : C-20		
DRG. NO. NP/B/1554/2		

REV.	DESCRIPTION	BY	DATE