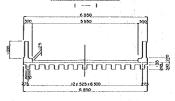
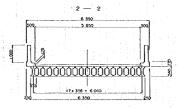


CROSS SECTION 1:50





LEGEND OF REHABILITATION WORK

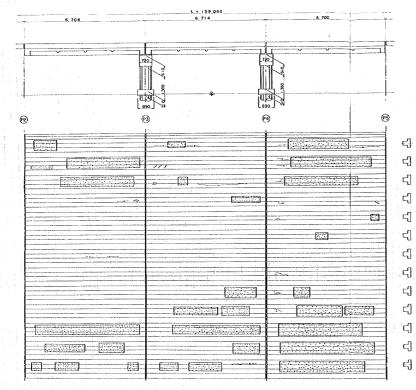
	EPOXY INJECTION	1
CONCRETE	PATCHING	WHI
	PREPACKED COMPRETE LINING WITH ADDITIONAL RESAR	C2222
STEEL .	REPAINTING	



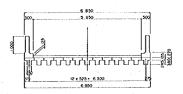
MASTER PLAN STUDY ON BRIDGE DEVELOPMENT IN			
TITLE OF DRAWING	BRIDGE NAME / NO	SCALE	DRAWING NO
PROPOSED REHABILITATION PLAN	SER M.7	AS SHOWN	MR-C-1

PROPOSED REHABILITATION PLAN FOR SER NA7 (9)





CROSS SECTION 1:50

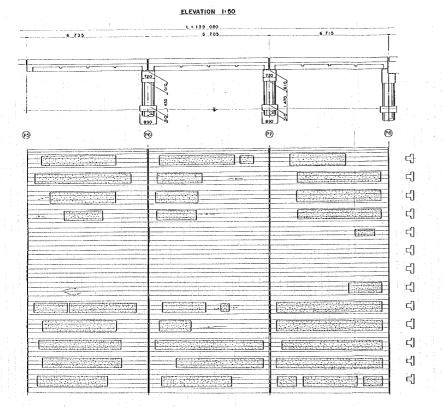


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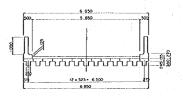
	EPOXY INJECTION	1 :
CONCRETE	PATCHING	VIIII
10.1	PREPACKED CÉNCRÉTÉ LINING BITH ADDITIONAL REBAR	
STEEL	REPAINTING	+



PROPOSED REHABILITATION PLAN FOR SER M.7 (10)



CROSS SECTION 1:50

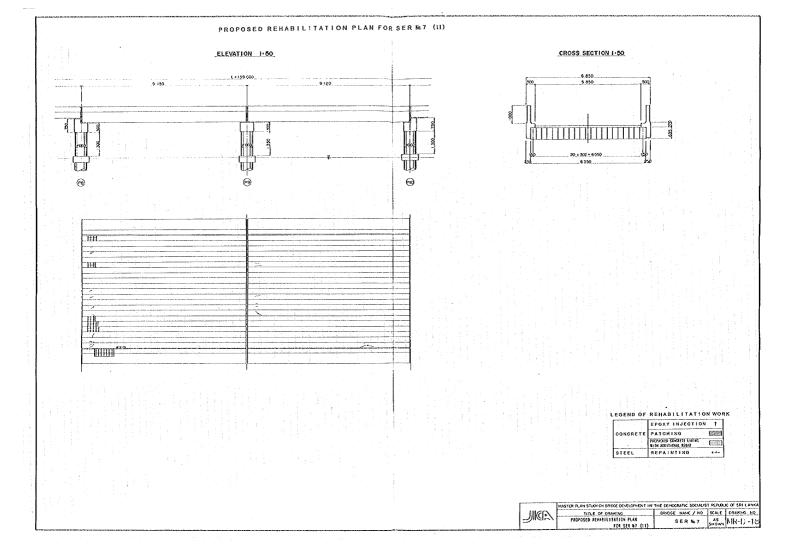


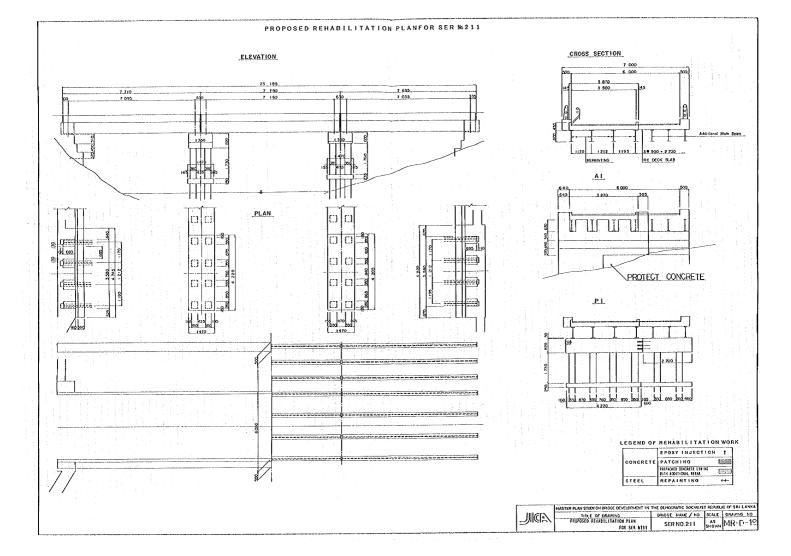
LEGEND OF REHABILITATION WORK

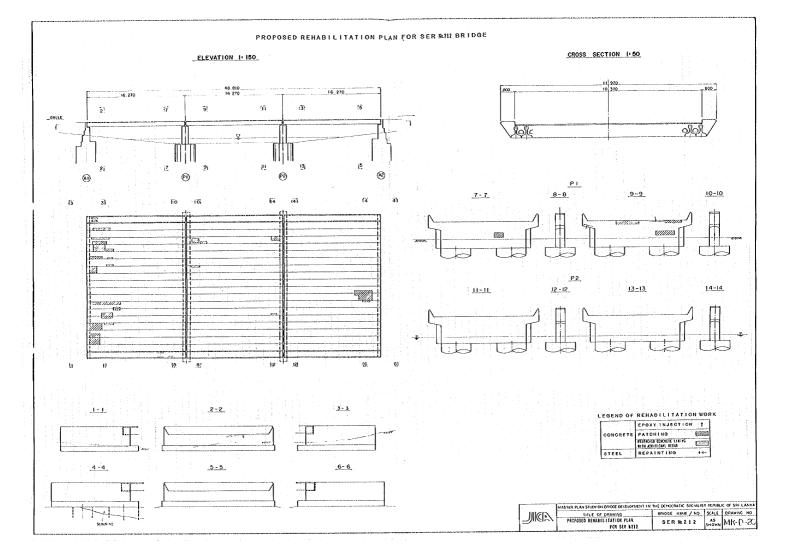
	EPOXY INJECTIO	N T
CONCRETE	PATCHING	Willia
	PREPACKED CONCRETE LIXING BITH ADDITIONAL REBAR	CC
STEEL	REPAINTING	

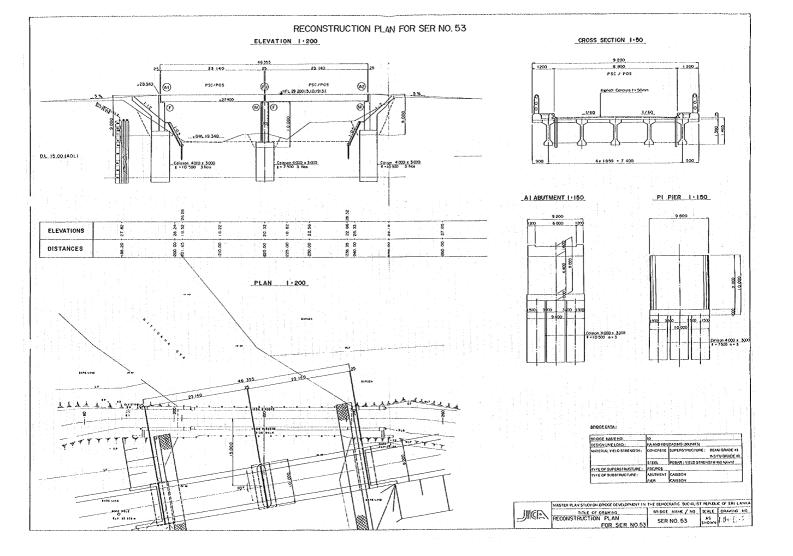


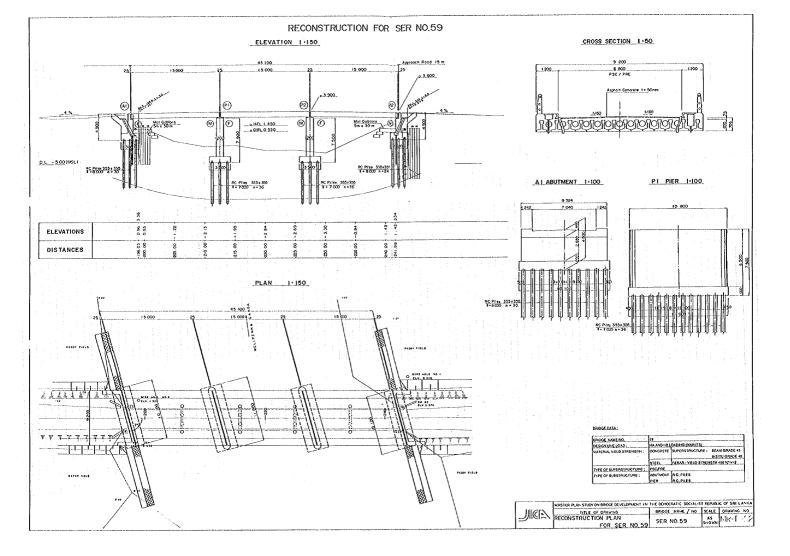
MASTER PLAN STUDY ON BRIDGE DEVELOPMENT IN			
TITLE OF DRAWING	BRIDGE NAME / NO		
PROPOSED REHABILITATION PLAN	SER M.7	AS SHOWN	MR-1:-1

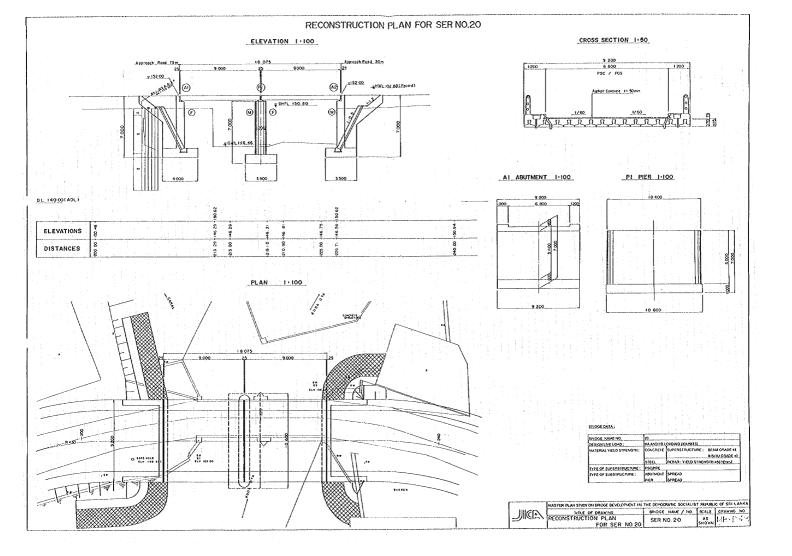


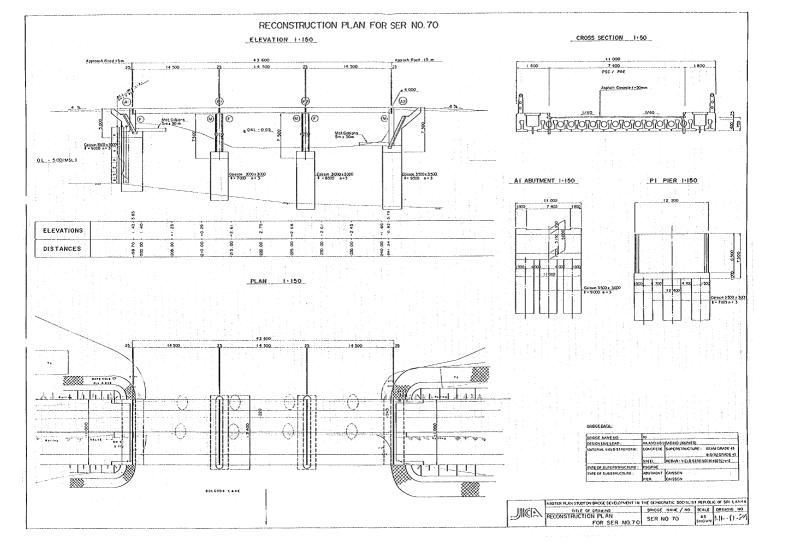






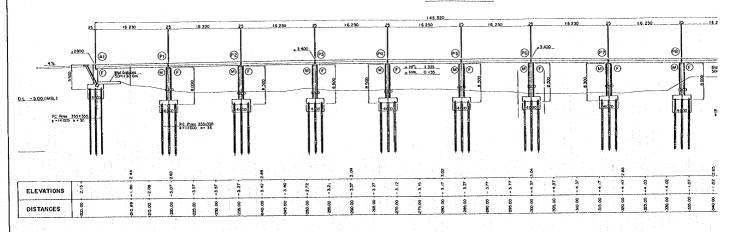




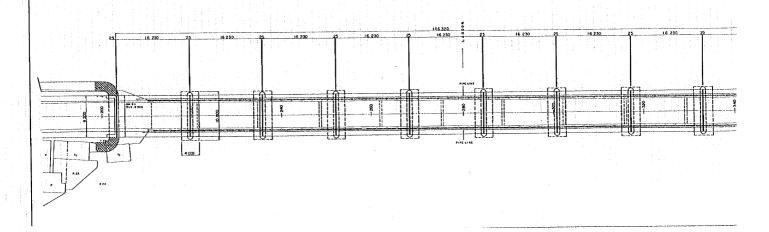


RECONSTRUCTION PLAN FOR SER NO. 7

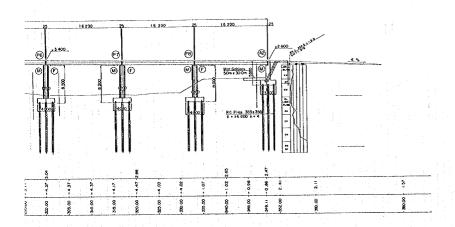
ELEVATION 1 200

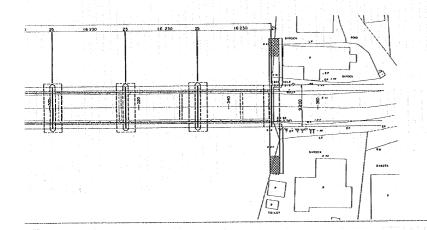


PLAN 1:200

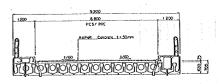


CONSTRUCTION PLAN FOR SER NO. 7



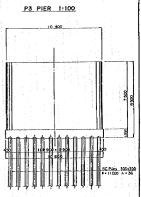


CROSS SECTION 1:50



9 200 6 809 1 200 1 30 41 1 2 20 1 1 30 0

AT ABUTMENT 1-100



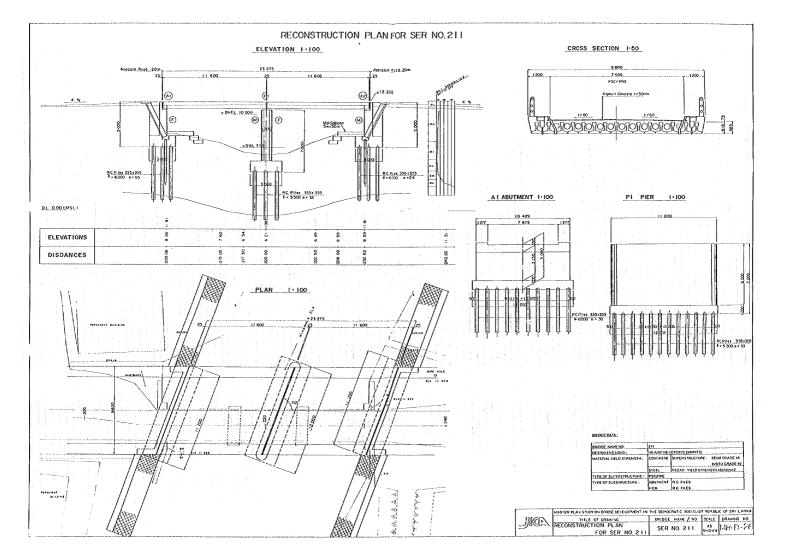
BRIDGE DATA

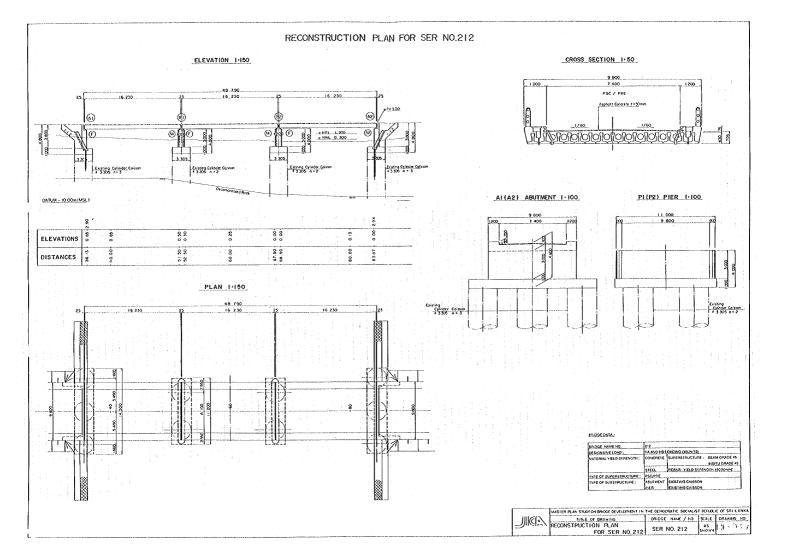
BRIDGE NAME NO	7	
DESIGNUME LOAD:	HA AND HE LOADING GOUNTS!	
WATERIAL VIELD STRENGTH:	CONCRETE	SUPERSTRUCTURE: BEAN GRADE 45 INSTRUGRADE 40
	STEEL	REBAR : YIELD STRENGTH 460 Norma
TYPE OF SUPERSTRUCTURE:	PSC/PRE	The state of the s
TYPE OF SUBSTRUCTURE:	THENTUSA	A C. PALES
	PIER	AC PLES

MISTER PLAN STROPPIN PRODUCT CONSCIONANT IN THE EXPONENTIC SCIPLIEST REPORTS OF SHIT LANKER

THE OF DRAWING BRIDGE HAME / NO SCREE CHARAPIS MO RECONSTRUCTION PLAN SER NO.7 SER NO.7 SER NO.7

FOR SER NO.7

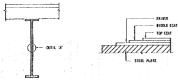




PROTECTION AND REINFORCEMENT TO STEEL MATERIAL.

REMOVAL OF RUST AND REPAINTING

DETAIL 'A'



REMOVAL OF RUST AND REPAINTING

(A) Application Criteria

Adequate lead carrying capacity

Non-active corresion and paint deterioration

(B) Work Sequence

- Thoroughly remove corresion, foreign naterial, oil, grease, loose or peeling paint and all non-atherent residues from the steel nurisce by wire brushing or
- pain and an non-sentence research from the price former by who community other approved means.

 3) Immediately after surface programation broads applied a layer of printer.

 3) Allow the printer for type and broads applied a layer of middle coat.

 4) Finally, broads applied a fayer of top coat after the middle coat has divid up.

(C) Specification

- Conventional protective coatings
 Primer shall be lead based anti-rust paint and shall previde a minimum dry flan thickness of 60 microa
- b) Middle cost shall be silicone-alleyd scale based paint and shall provide a minimum dry film thickness of 30 micron.
- c) Top coat shall be silicone a kyd resin based paint and shall provide a
- minimum dry flux thickness of 30 micron.

 2) Heavy-duty coasing

 a) Peimer shall be apony based red code and shall provide a minimum dry
 flux thickness of 100 micron.
- for thickness of 100 micron.

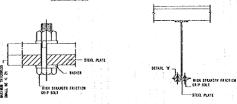
 1) Model cours with the specy based abunium and shall provide a minimum day fain thickness of 100 micron.

 2) Top cost shall be polymethnes reish based paint and shall provide a minimum day for thickness of 50 micros.

 1) Each layer of executing shall be of deferred solvers.

ATTACHMENT OF STEEL PLATE

DETAIL '8'



ATTACHMENT OF STEEL PLATE

(A) Application Criteria

- Inadequate load carrying capacity.

 Excess bending stress is less than 20% of allowable stress.

 Non-active corresion, paint detailoration.

(B) Work Sequence

- 1) Mark the positions for the bohs and drill holes at the marked positions at
- 1) Baset are positions for or do not as our moder at our making position as body, the boar and the red plain?
 2) Thereograph resource controls, oil, greate, foreign material, lesses or peefing paint and all noe adherest residues from both the beam surface to be in concess with the steep facts as well as the red plain.
 3) Attach the paint on the beam has valid plain foreign fiction boils as shown in
- the drawing

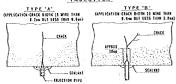
 4) Protect the working area against corresion once all the bohs have been eightened by applying protective coating

- 1) Holes for high strength friction grip bolts shall comply with the requirements
- High strength friction grip bolts shall comply with the requirements of IS and
 use in accordance with IS.
- 3) Steel plates shall comply with the requirements of 15.
 4) Protective cosating shall follow the specification for semonal of rust and

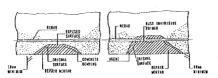
PROTECTION WORK FOR CONCRETE

TYPE 'B'

INJECTION

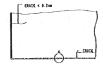


PATCHING



PROTECTIVE COATING

DETAIL 'A'



L TOP COAT (? LATERS) PRIMER (BASE IMPREGNATOR)

CONCRETE WIDTH INJECTION PIPE INTERNAL (na) < 8.3 50 ~ 100 100 ~ 200 0.1 ~ 8.5 0.5 ~ 1.0 150 ~ 255 100 ~ 100

EPOXY RESIN INJECTION

(A) Applicable Criteria

- Cracks are not active and its surface width is more than 9 2mm, but less than
- Reason of the crack appearance is due to shrinkage on creep of concrete.

 No water leak and no liquid rost No carbonation and no chloride attack
- (1): If surface crack width is more than 3.0mm, apply coment pasts

(8) Work Species

- Remove any loose week material on the surface and thoroughly clean the
- cracks with clean oil-free compressed air.
 Sealed the cracks at the surface and marked the injection points. The
- spacing between injection points shall be as shown on the table above.
 Fire the signation pipes into position by sealing its nanocrating area.
 Commence injection of epocy resin from either the forwait injection point in a
 vertical careb, be from either extreme end of a bonizontal rande.
- Remove the injection pipes and seal the boles as work proceeds Remove the scaling strip when the resin has cured and earry out final surface treatment of required.

(C) Specification

1) Minimum compressive strength of epoxy resis at 7 days shall be 80m/mm².

- Property

 a) Minimum strength at 7 days = 80N/mm³.

 b) Florard strength = 55N/mm³

 c) Florard modulus = 3000N/mm³
- S'ant shear bond strength, Concrete / Concrete -- 60N/mm3
- 2) Minimum curing time of epoxy resin shall be 24 hours

PATCHING

(A) Arelicable Criteria

TYPE 'A'

- Defects such as honeycomb, flaking, cavity, etc. are not active. Reason of these defects are mainly due to inferior concrete o
- workmanship.
 Minimum carboration, no ebloride attack and no water leak.
- Adequate concrete cover. Defective area is scattered

(8) Work Sequence

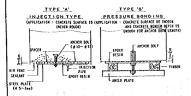
- All syalled, locus and defective concrete shall be removed until social concrete in reached. In the revest of robus exposed, relayed of concrete shall be carried out to a further depth of 20thus belief the ribus.
 All exposed reinforcement shall be cleared of corrosin by wise brushing or
- other approved means to achieve a surface finish coupying with 15. The reinforcement shall immediately be primed with sinc-rich type primer complying with the requirements of 15.
- Prior to patch sepair, damped the concrete and apply a thin layer of concrete bonding agent.
- Firmly push into place the repair mortar by gloved hard or trovel.
 Make good the finished surface using a trowel or wood float.

(C) Specification

- Minimum compressive strength of regula mortal shall be 40N/mml.
 Minimum day film thickness of steel primes shall be 40 microns.

REINFORCEMENT WORK TO CONCRETE

STELL PLATE BONDING

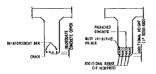


PREPACKED CONCRETE LINING

WITH ADDITIONAL REBER

(APPLICATION : SCIFFIT OF BENEERS THERE IS BIFFICULT TO POUR CONCRETE SUCH AS SCIFIT OF BEAM & SLAD)

BEFORE REINFORCEMENT AFTER REINFORCEMENT



PREPACKED CONCRETE LINING WITH ADDITIONAL REBAR

- Inadequate loading superity
 Various active cracks due to bending manent or aleas force
- Inadequate concrete cover Suffered mild chloride arrack or advanced curbonation
- Defective area is not extensive

(B) Work Schools

- Remove all spalled, foose and defective concern until sound concrete is reached. Breaking out shall expose the fill circumfacence of the robe and to a further depoint of 10mm behind he robe is all concernded.

 All supposed endofectment shall be dessed of correction produced behavior behavior of order approved means to solver a second field onespitying with

- 3.
 3. Apply grine con which a how in the proving and densing of the refer.
 4. Southy fire additional relate and made for an above in the densing of the refer.
 5. Consider the control of the fire additional content to core of Point Connect had the additional relate and principle of the control of the fire additional content to core of Point Connect had the additional register to the control of the red fire and the control of the red fire and the red fire and the control of the red fire and the fire and the red fire and the fire and the red fire strength and shall be immediately cured in accordance with good concrete

- The cement used shall be ordinary portland cement conforming to 15. Minimum concrete cobe strongth at 21 days shall be 40N/mm/20mm. Minimum concrete cover to main reinforoment to be 70mm. Bars shall be bent and measured in accordance with 15.

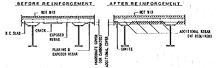
- Reinforcement to be weld shall comply with the requirements of JS.
- Welding shall be carried out in accordance with IS
- All mild steel and high yield bar to conform to IS.
- Lap length to be 72 x diameter of bar.

 Primer shall be zine-rich type primer complying with the requirements of 15.

GUNITING WITH ADDITIONAL REBER

(APPLICATION: SOFFIT OF MEMBERS WHERE IS DIFFICULT TO POUR CONCRETE DUE TO MOT ENOUGH HEIGHT)

AFTER REINFORCEMENT

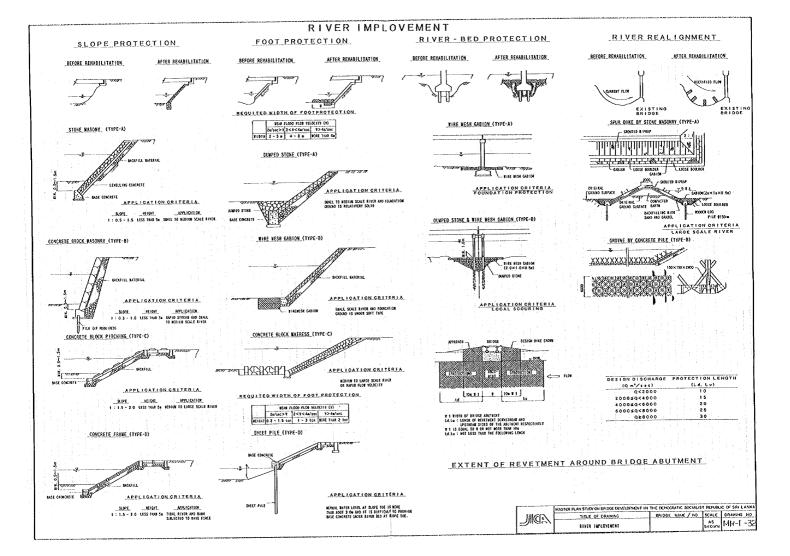


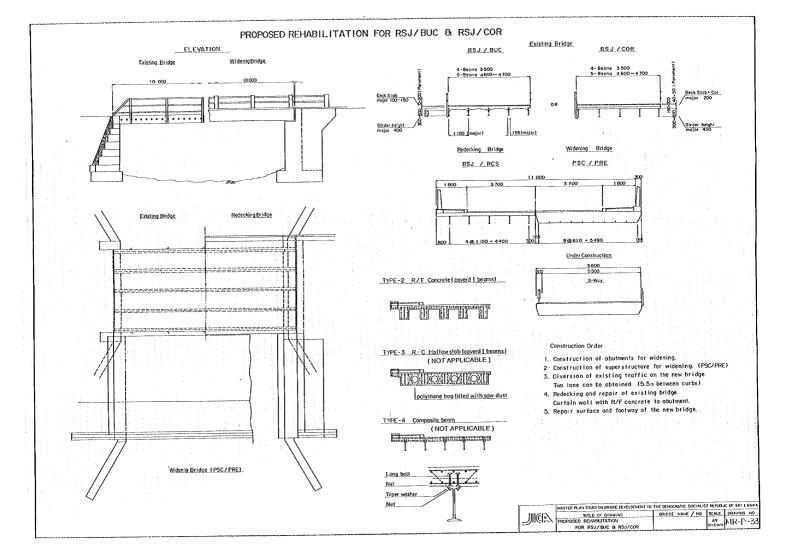
PROTECTION AND REINFORCEMENT TO SUBSTRUCTURE

OR MASS CONCRETE (TYPE 'A')

CONCRETE LIXING ADDITIONAL REBAR YIO AT 300mm C/C BOTHRAYS SYMMETRY MASS CONCRETE

CONCRETE LINING TO PILES (TYPE 'B') AFTER REINEORGEMENT BEFORE REINFORCEMENT. ADDITIONAL REBER 9 DIA - 300 C/C CONCRETE TO BE DEWOLISHED LONGITUDINAL CRACK 22 DIA - 200 C/C RUST (MHITLIVE PRINCE





PROPOSED REHABILITATION FOR ST. TR/T

