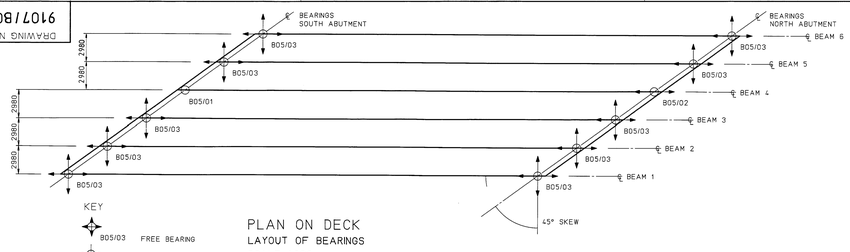
TA/9106/B05/13Z

MISCELLANEOUS DETAILS

ROMAN VILLA BRIDGE

DRAWING No. 9107/B05/13



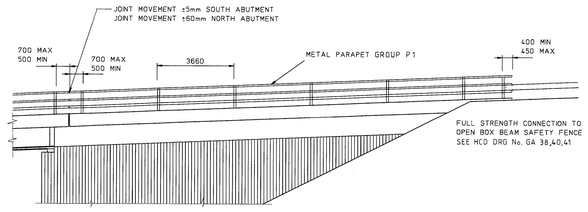
KEY

B05/03 FREE BEARING

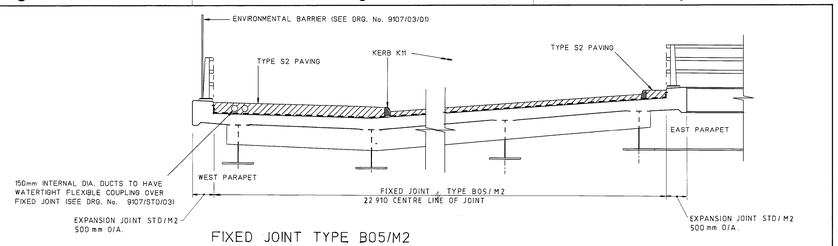
B05/02 GUIDED BEARING

B05/01 FIXED BEARING

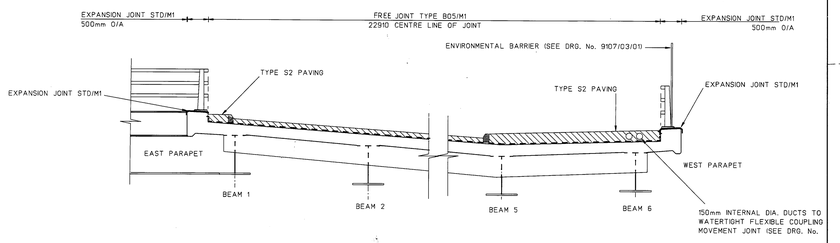
PLAN ON DECK
LAYOUT OF BEARINGS
SCALE 1:200



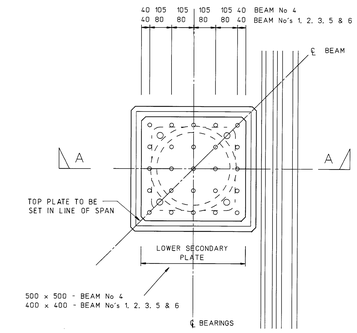
PARAPET DETAILS
SCALE 1:100



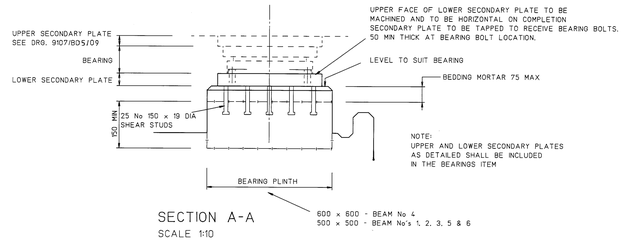
FIXED JOINT TYPE B05/M2
SOUTH ABUTMENT
SCALE 1:50



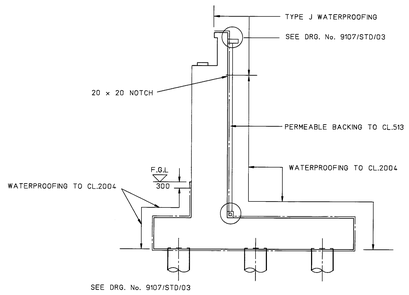
EXPANSION JOINT TYPE B05/M1
NORTH ABUTMENT
SCALE 1:50



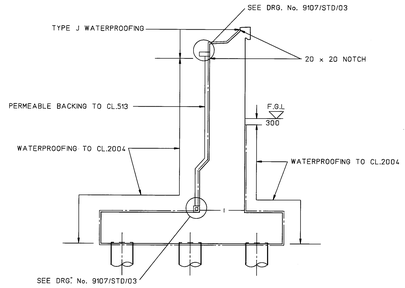
PLAN ON BEARING
SCALE 1:10



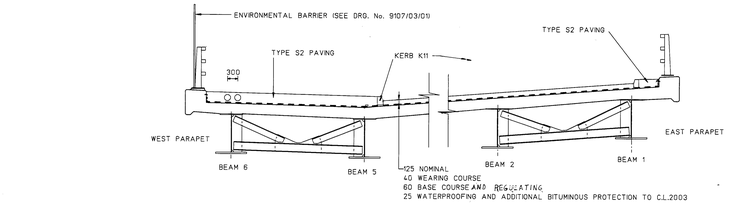
SECTION A-A
SCALE 1:10



TYPICAL ABUTMENT SECTION
DRAINAGE AND WATERPROOFING DETAILS
SCALE 1:100



TYPICAL WINGWALL SECTION
DRAINAGE AND WATERPROOFING DETAILS
SCALE 1:100



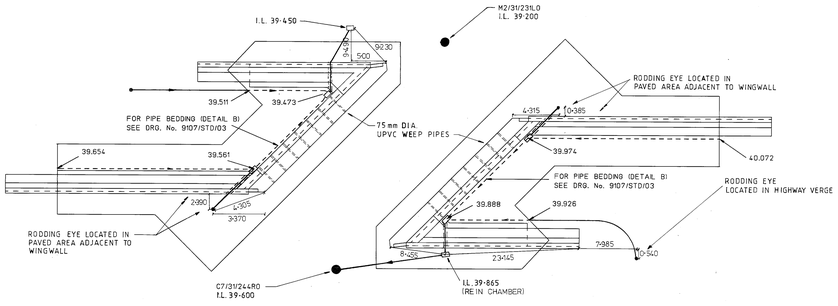
TYPICAL SECTION THROUGH DECK (PERPENDICULAR TO CARRIAGEWAY)
VERGE AND SURFACING DETAILS
SCALE 1:50

DRAINAGE OF SUBSTRUCTURE - END SUPPORTS SCHEDULE	
ITEM / COMPONENT DESCRIPTION	QUANTITY
RODDING EYE TYPE 1	8 No
CHAMBER TYPE 3 H.C.D DRAWING F5 WITH MANHOLE COVER TYPE A	–
150mm INTERNAL DIA PIPES DESIGN GROUP 15 ON CLASS Z BED	80 lin m
150mm INTERNAL DIA POROUS OR PERFORATED PIPE DESIGN GROUP 15	88 lin m
225mm DIA SLEEVE THROUGH WINGWALLS	15 lin m
NO FINES CONCRETE SURROUND TO CL.2603 TO 150 DIA POROUS/PERFORATED PIPES	9.3 m^3
CONCRETE MIX ST2 BEDDING TO 150mm DIA POROUS PIPES	7.7 m^3
F1 FORMWORK TO CONCRETE MIX ST2 BEDDING	44 m^2
BRIDGE JOINT SECONDARY DRAINAGE : 150mm DIA HALF ROUND UPVC GUTTER WITH SUITABLE END GAPS, JOINTS, OUTLETS, AND FIXINGS	46 lin m
BRIDGE JOINT SECONDARY DRAINAGE : 75mm DIA UPVC DOWNPIPE FROM GUTTER WITH SUITABLE BEND, JOINTS AND FIXINGS	3 lin m
BEARNG SHELF DRAIN OUTFALL : 75mm DIA UPVC DOWNPIPE WITHIN ABUTMENT TO INCLUDE ALL JOINTS, BENDS AND FIXINGS	8.6 lin m
ADAPTERS FROM 150mm INTERNAL DIA DESIGN GROUP 15 POROUS/PERFORATED PIPES TO 150mm INTERNAL DIA DESIGN GROUP 15 PIPES	8 No
150mm DIA OBLIQUE/SQUARE JUNCTIONS WITH APPROPIATE CONNECTIONS	6 No
VERTICAL DRAINAGE LAYER TO CL.513	700 m^2
CONCRETE MIX REF J20/20	9 m^3
150mm DIA PIPES DESIGN GROUP 15 ON CLASS Z BED TO CONNECT TO HIGHWAY DRAINAGE MANHOLE	4 lin m
75mm DIA UPVC WEEP PIPES	25 lin m

SERVICE DUCTS IN SUPERSTRUCTURE SCHEDULE	
150mm INTERNAL DIA UPVC DUCTS	85 lin m
DUCT MARKERS AS DRAWNG 9107/05/125	2 No
NOTE : ALL DUCTS TO BE FITTED WITH DRAW STRNGS AND CONNECTED TO DUCT MARKERS	

DRAINAGE OF SUPERSTRUCTURE SCHEDULE	
40mm DIA SUPERSTRUCTURE DECK DRAINAGE TYPE D1	3 No

SOUTH ABUTMENT
DRAINAGE DETAILS AND INVERT LEVELS
SCALE N.T.S.



NORTH ABUTMENT
DRAINAGE DETAILS AND INVERT LEVELS
SCALE N.T.S.

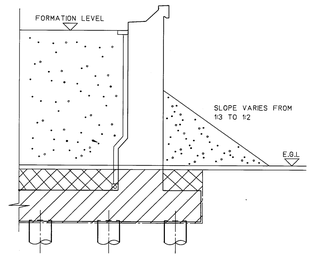
RODDING EYE TYPE 1

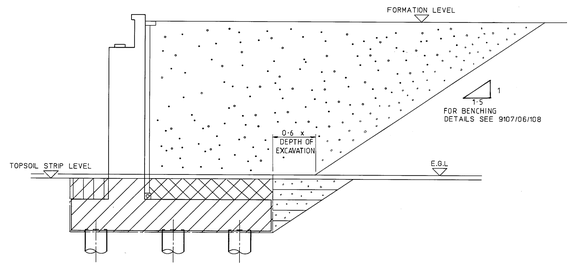
PIPE JUNCTION

150mm I.D. PIPE DESIGN GROUP 15 ON CLASS Z BEDDING

150mm I.D. POROUS OR PERFORATED PIPE DESIGN GROUP 15

225mm DIA UPVC SLEEVE THROUGH WINGWALLS





EXCAVATION IN STRUCTURAL FOUNDATIONS

IMPORTED ACCEPTABLE MATERIAL CLASS 6N AND COMPACTION IN FILL ABOVE STRUCTURAL CONCRETE FOUNDATIONS

EXCAVATION IN CUTTING AND OTHER EXCAVATION

DEPOSITION AND COMPACTION OF ACCEPTABLE MATERIAL CLASS 7A IN FILL ABOVE STRUCTURAL CONCRETE FOUNDATIONS.

IMPORTED ACCEPTABLE MATERIAL CLASS 6N AND COMPACTION IN FILL TO STRUCTURAL CONCRETE FOUNDATIONS.

TYPICAL CROSS SECTIONS SHOWING EARTHWORKS

NOT TO SCALE

NOTE :
THIS DRAWING TO BE READ IN CONJUCTION WITH STANDARD NOTES AND DETAILS DRG. No. 9107/STD/03.

THE DEPARTMENT OF TRANSPORT
SOUTH WEST CONSTRUCTION PROGRAMME DIVISION

FRANK GRAHAM CONSULTING ENGINEERS

No.	AMENDMENT DETAILS	BY	DATE
Z	AS BUILT checked by M C Jones	MJ	Sept 97

A417 BROCKWORTH BYPASS

ROMAN VILLA BRIDGE
MISCELLANEOUS DETAILS

ORIGINAL DRG. SIZE 841 x 1189 (A0)	DRAWN M.P.	DATE 7/6/93	DOC SHEET No. 10/2/52
	CHECKED TDB	DATE 12/93	DRAWING No. C/9107/B05/13Z
	APPROVED TDB	DATE 9/6/93	

AMDD 22