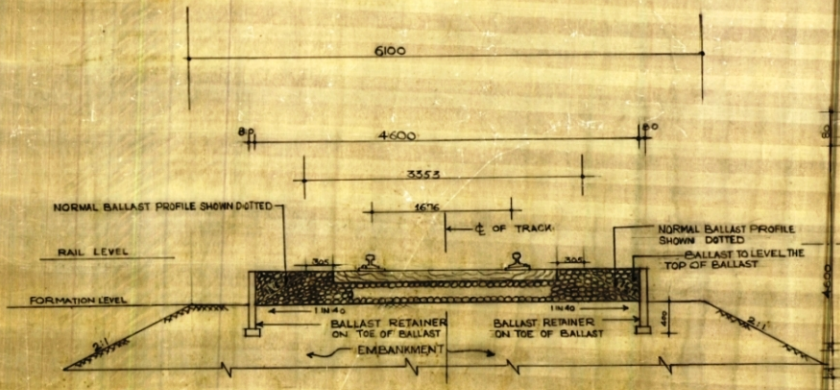
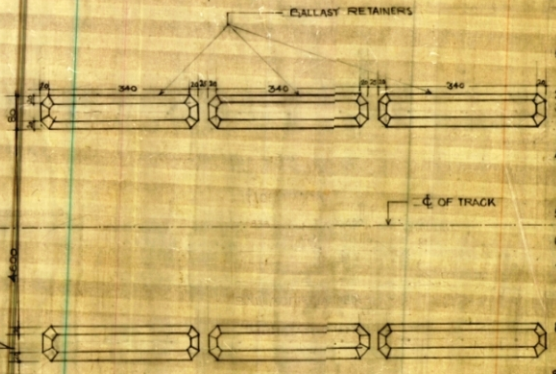
N.R. TYPE No. F-63



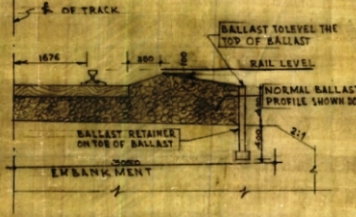
TYPICAL CROSS SECTION
(SHOWING LOCATION OF BALLAST RETAINER IN ORDINARY TRACK)



PLAN

NOTES

1. PRECAST BALLAST RETAINER BE PROVIDED TO PREVENT SLIPPING AWAY OF BALLAST DUE TO TRES-PASSING BY MEN & CATTLE ETC.
2. ALL DIMENSIONS ARE IN MM.
3. WORK OF FIXING BALLAST RETAINERS AT SITE SHALL BE CARRIED OUT OBSERVING ALL PRECAUTIONS APPLICABLE FOR A PARTICULAR SECTION.
4. EXCAVATION FOR FOUNDATION SHOULD BE DONE IN A MAXIMUM LENGTH OF TWO SLEEPER SPACINGS AT A TIME TO AVOID DISTURBANCE TO BALLAST SHOULDER.
5. NUMBER OF BALLAST RETAINERS REQUIRED WOULD DEPEND UPON SITE REQUIREMENTS.
6. MILD STEEL PLAIN BARS SHALL BE USED AS PER I.S. CODE 432 (PART I)
7. PROPER CURING OF CONCRETE TO ACQUIRE HARDNESS STRENGTH AND OTHER PROPERTIES ESSENTIAL TO SATISFACTORY SERVICE MUST BE ENSURED.
8. ALL R.C.C. WORK SHALL BE IN ORDINARY GRADE CEMENT CONCRETE M-15 AS PER I.S. CODE 456.
9. CONCRETING SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS LAID DOWN IN I.S. CODE 456 OF PRACTICE FOR REINFORCED CONCRETE CONSTRUCTION.
10. IT SHALL BE ENSURED THAT NO GAS BUBBLES IN REINFORCING BARS DURING CONSTRUCTION
11. ALL R.C.C. WORK MUST BE CARRIED OUT UNDER THE PERSONAL SUPERVISION OF AN EXPERIENCED ENGINEER.
12. THIS TYPE PLAN SUPERCEDES N.R. TYPE PLAN No. F-62.

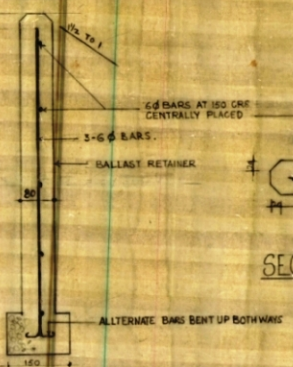


TYPICAL CROSS SECTION
(SHOWING LOCATION OF BALLAST RETAINER IN WELDED TRACK)

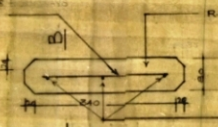
BALLAST RETAINER



ELEVATION



SECTION ON A-B



SECTIONAL PLAN

B.A. MALVE (FOR CHIEF ENGINEER)
ASHOK VARD (DY.C.E.TN)
C.P. TAYAL (S.E.N.P.Rly)
R.S. GUPT A.E.N.(P.Rly)

NORTHERN RAILWAY

PRECAST R.C.C BALLAST RETAINER

S.NO.	DESCRIPTION	INITIALS
	REVISIONS	

DRAWN: Kumar Kunwal Singh
CHECKED: Rakesh Kumar Singh
C.D.A.: Vinod Kumar Arya
D.A.: Hans Chander Arya
TRACED:
COMPARED:

SCALE:- 1:5 & 1:25
CASE No. 105-W/127
N.R.H.Q.E. PLAN No. HQ/25/12-85

CALCULATION No.
CANCELLED PLAN No. N.R. TYPE F-62