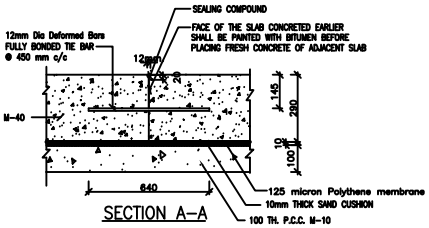
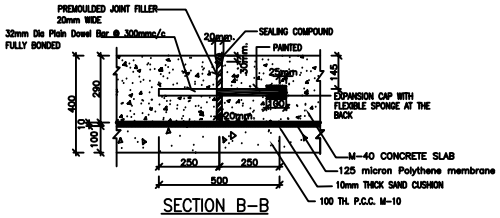


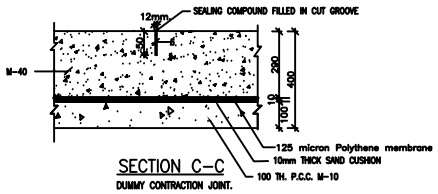
SECTION A-A

LONGITUDINAL JOINT WITH TIE BAR



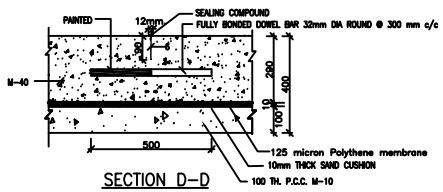
SECTION B-B

EXPANSION JOINT/CONSTRUCTION JOINT AT THE LOCATION OF EXPANSION JOINT WITH DOWEL BAR.



SECTION C-C

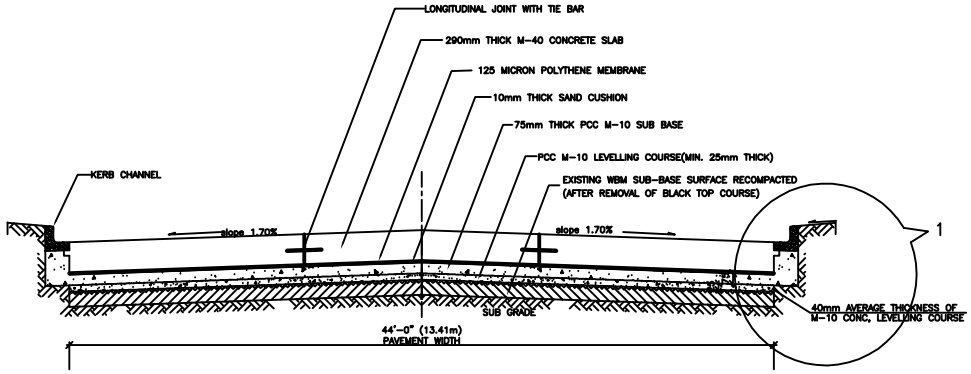
DUMMY CONTRACTION JOINT.



SECTION D-D

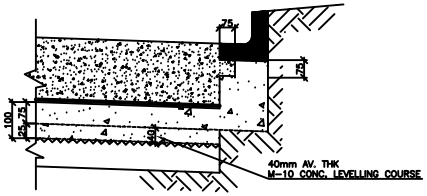
CONSTRUCTION JOINT AT THE LOCATION OF CONTRACTION JOINT WITH DOWEL BAR

JOINT DETAILS

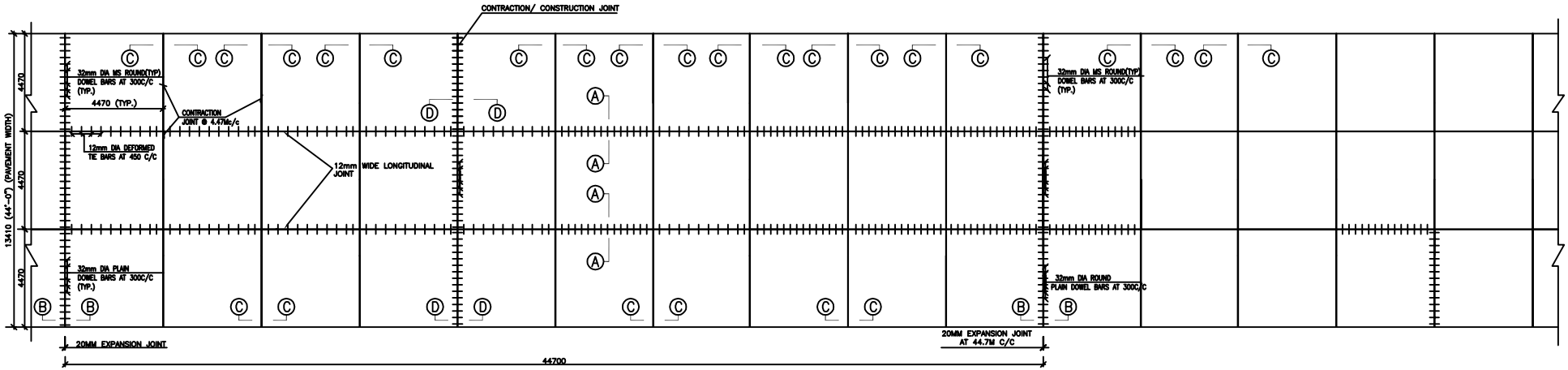


TYPICAL CROSS SECTION OF PAVEMENT

(not to scale)



DETAIL AT 1



TYPICAL PLAN OF 13.41 M(44'-0"). WIDE RIGID PAVEMENT

WITH ARRANEGEMENT OF JOINTS

NOTES :-

1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED.
2) DO NOT SCALE THIS DRAWING.
3) THE THICKNESS 290 MM OF THE CONCRETE PAVEMENT SLAB IS BASED ON THE MINIMUM FLEXURAL STRENGTH OF THE CONCRETE AS 45 KG/ CM2 AT THE END OF 28 DAYS AS REQUIRED UNDER IRC CODE NO. 58 – 2002, " GUIDE LINES FOR THE DESIGN OF RIGID PAVEMENTS FOR HIGHWAYS."
4) IN ORDER TO ACHIEVE, THE FLEXURAL STRENGTH OF THE CONCRETE AS 45 KG/ CM2, AT THE END OF 28 DAYS MINIMUM CHARACTERISTIC COMPRESSIVE STRENGTH OF 150 MM CUBE IN THE FIELD AT 28 DAYS REQUIRED IS M – 40 GRADE CONCRETE.
5) IN ORDER TO ACHIEVE THIS MINIMUM SPECIFIED CHARACTERISTIC COMPRESSIVE STRENGTH OF M – 40 GRADE CONCRETE IN THE FIELD, THE AVERAGE DESIGN STRENGTH REQUIRED AT 28 DAYS FOR WHICH THE MIX SHALL BE DESIGNED AS PER THE ,IS9 MIX FORMULA GIVEN IN IRC – 44– 1976 OR THE LATEST VERSION, "TENTATIVE GUIDE LINES FOR CEMENT CONCRETE MIX DESIGN FOR PAVEMENTS FOR NON AIR ENTRAINED AND CONTINUOUSLY GRADED CONCRETE.
6) THE SPACING OF EXPANSION JOINTS AND CONTRACTION JOINTS WAS BEEN ADOPTED AS PER IRC : 15 : 2002, "STANDARD SPECIFICATION AND CODE OF PRACTICE FOR CONSTRUCTION OF CONCRETE ROADS". THE DESIGN OF THE DOWEL BARS REQUIRED FOR EXPANSION JOINTS AND TIE BARS REQUIRED FOR LONGITUDINAL JOINTS IS BASED ON IRC – 58 – 2002, " GUIDE LINES FOR THE DESIGN OF RIGID PAVEMENTS FOR HIGHWAYS".
7) FOR CONTINUOUS CONSTRUCTION, CONTRACTION JOINTS MAY BE CONSTRUCTED AS DUMMY JOINTS AS PER THE DETAILS GIVEN IN THIS DRAWING.
8) FOR CONSTRUCTION JOINTS, THE SAME MAY BE LEFT EITHER AT CONTRACTION JOINT POSITION OF SPACING 4.5 M OR AT EXPANSION JOINT POSITION OF SPACING 45.0M. THE CONSTRUCTION JOINT LEFT AT THE POSITION OF EXPANSION JOINT SHALL BE CONSTRUCTED AS PER THE DETAILS GIVEN FOR EXPANSION JOINTS IN THIS DRAWINGS. THE CONSTRUCTION JOINTS LEFT AT THE POSITION OF CONTRACTION JOINT SHALL BE CONSTRUCTED AS PER THE DETAILS GIVEN IN THIS DRAWINGS.
9) THE JOINT FILLER SHALL COMPLY WITH THE REQUIREMENTS OF IS : 1838 – 1991 "SPECIFICATION FOR PREFORMED FILLERS FOR EXPANSION JOINT IN CONCRETE NON-EXTRUDING AND RESILIENT TYPE (BITUMEN IMPREGNATED FIBRE)."
10) THE SEALING COMPOUND SHALL COMPLY WITH THE REQUIREMENTS OF THE IS : 1834 – 1991 "SPECIFICATION FOR HOT APPLIED SEALING COMPOUNDS FOR JOINTS IN CONCRETE."

Revisions:

No.	Date	Remarks

REVISED ON 2-08-2003

Client
CAPITAL PROJECT DIV. NO. 2 (R)
CHANDIGARH (U.T.)

Project
V – 3 ROAD BETWEEN WATER WORKS COMPLEX & SECTOR – 30, CHANDIGARH

Drawing Title
DETAILS OF RIGID PAVEMENT

Scale: As Shown
Date: 22-07-2003

Drg. No.
RP/ S – 1

Designed/Checked By :
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&
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