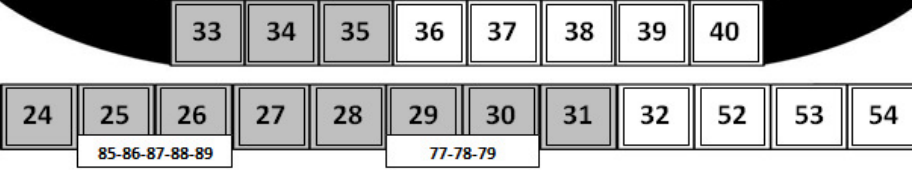


MnROAD Low Volume Road



Acid Modified			Original PCC				Pervious Overlay	Aging Study	Mesabi Hard Rock		Concrete Initiatives		
33	34	35	36	37	38	40	39	24	31	54	32	52	53
4" 58-34 PPA	4" 58-34 SBS+PPA	4" 58-34 SBS	6" Trans Tined 15x12 1" dowel	6" Trans Tined 12x12	6" Trans Tined 15x12 1" dowel	5.5"-7.0" Trans Tined 15x12	4" Perv Overlay	3" 58-34	4" 64-34	7.5" Astro Turf 15'x12' 1" dowel	5" Astro Turf 10x12 Class 1f	7.5" Astro Turf 15x13/14 Var Dowels	12" Trans Broom 15x12 1.5" SS dowels PCC Shld
12" Class 6	12" Class 6	12" Class 6	5" Class 5	5" Class 5	5" Class 5	5" Class 5	6" 20x12 1" dowel	4" Class 6	4" Class 5	12" Class 3	6" Class 1c	5" Class 4	5" Class 5
Clay	Clay	Clay	Sand	Sand	Clay	Clay	5" Class 5	Sand	100' Fog Seals 2008 2009 2010 2011 2012	12" Class 6	Clay	Clay	36" SG
Sep 07 Current	Sep 07 Current	Sep 07 Current	Jul 93 Current	Jul-93 Current	Jul 93 Current	Jul 93 Current	Oct 08 Current	Oct 08 Current	Sep 04 Current	Oct 04 Current	Jun 00 Current	Jun 00 Current	Oct 08 Current

Pervious & Porous Pavements							GCBD Fabric	Stabilized Full Depth Reclamation			Implements of Husbandry		
64	74	85	86	87	88	89	27	28	77	78	79	83	84
7" Pervious PCC	4" Pervious PCC	7" Pervious PCC	5" Porous HMA	4" Control	5" Porous HMA	7" Pervious PCC	2" 52-34	6" SFDR + Chip Seal	4" 58-34 Elvaloy + PPA	4" 58-34 Elvaloy + PPA	4" 58-34 Elvaloy + PPA	3.5" 58-34	5.5" 58-34
12" CA-15	6" Washed Stone	4" RR Ballast	4" RR Ballast	4" Mesabi Ballast	4" RR Ballast	4" RR Ballast	2" 58-34	4" Class 5	8" FDR	8" Class 6	8" FDR + Fly Ash	8" Class 5	9" Class 5
Type V Geo-Textile	Type V Geo-Textile	8" CA-15	10" CA-15	11" CA-15	10" CA-15	8" CA-15	G CBD	2009 Chip Seal	Clay	Clay	Clay	Clay	Clay
Type V Geo-Textile	Clay	Type V Geo-Textile	Type V Geo-Textile	Type V Geo-Textile	Type V Geo-Textile	Type V Geo-Textile	7" Clay Borrow	7" Clay Borrow	Clay	Clay	Clay	Clay	Clay
Clay	Clay	Sand	Sand	Clay Sand	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay
2007 Current	Aug 06 Current	Oct 08 Current	Oct 08 Current	Oct 08 Current	Oct 08 Current	Oct 08 Current	Aug 06 Current	Sep 11 Current	Oct 07 Current	Oct 07 Current	Sep 07 Current	Oct 07 Current	Oct 07 Current

* All thicknesses shown as design thickness