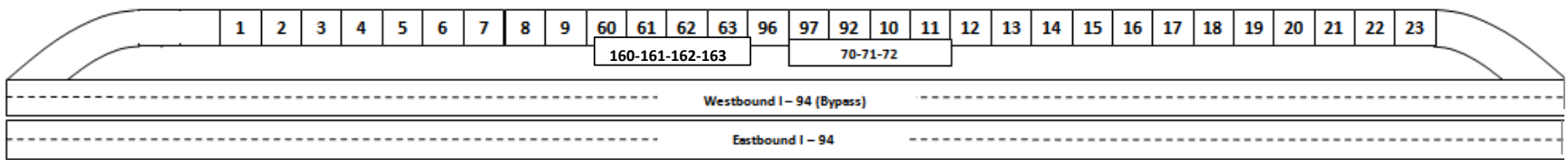


MnROAD Mainline



Original HMA	Stabilized Full Depth Reclamation			Unbonded Concrete Overlay				Concrete Initiatives		Original Concrete			Whitotopping				
1	2	3	4	505	605	305	405	306	406	7	8	9	160	161	162	163	96
6" 58-28 75 blow 33" Class 4 Driving Lane 1.5" 52-34 HMA inlay 2006 Micro Surface Aug 2012 Clay	1" TBWC 2" 64-34 6" FDR + EE 6" FDR 26" Class 4 Clay	1" TBWC 2" 64-34 6" FDR + EE 2" FDR 2" CI 5 33" Class 3 Clay	1" 64-34 2" 64-34 8" FDR + EE 9" FDR + Fly Ash Clay	5" UBOL Fabric 7.5" cracked '93 PCC 3" CI 4 27" Class 3 15x14 15x13 no dowels Trans Broom RCC Clay	5" UBOL Fabric 7.5" '93 PCC 3" CI 4 27" Class 3 15x14 15x13 no dowels Trans Broom RCC Clay	5" UBOL 1" PSAB 7.5" cracked '93 PCC 3" CI 4 27" Class 3 15x14 15x13 no dowels Trad Grind Clay	5" UBOL 1" PSAB 7.5" cracked '93 PCC 3" CI 4 27" Class 3 15x14 15x13 no dowels Trad Grind Clay	6" Long Time OGAB Sp 7" Class 5 15'x12' 1" dowel RCC Shlds	6" Long Time OGAB Sp 7" Class 5 15'x12' 1" dowel RCC Shlds	7.5" Trans Tined 4" PSAB 3" CI 4 Clay 20x14 20x13 1" dowel 2007 Innov Grind	7.5" Trans Tined 4" PSAB 3" CI 4 Clay 15x14 15x13 13' PCC Should 1" dowel 2007 Trad Grind	7.5" Trans Tined 4" PSAB 3" CI 4 Clay 15x14 15x13 13' PCC Should 1" dowel 2008 Ultimate Grind	5" sealed 6" 58-28 93HMA Clay Trans Broom Fibers 6x5	5" noseal 6" 58-28 93HMA Clay Trans Broom Fibers 6x5	4" sealed 7" 58-28 93HMA Clay Trans Broom Fibers 6x5	4" sealed 7" 58-28 93HMA Clay Trans Broom Fibers 6x5	6" sealed 7" 58-28 93HMA Clay Trans Tined 6x5 Polypro 2011 Trad Grind
Opened Length (ft) 462	500	454	500	153	146	133	117	261	292	499	500	500	224	225	225	224	177
Gap (ft)	97	60	156	75	0	0	0	0	21	46	29	26	0	0	0	0	0

2009 SHRP-II Composite Pavements				Original PCC	Recycled PCC	Whitotopping on Distressed Asphalt									
70	71	73	72	12	613	114	214	314	414	514	614	714	814	914	
3" 64-34 Saw/Seal 6" PCC Recycle 8" Class 7 Clay 15'x12' 1.25" dowels driving none passing	3" PCC EAC 6" PCC Recycle 8" Class 7 Clay Innovative DG (driving) Convent. DG (passing) 15'x12' 1.25" dowels	3" PCC 6" PCC Low Cost 8" Class 7 Clay Innovative DG (driving) Convent. DG (passing) 15'x12' 1.25" dowels	3" PCC 6" PCC Low Cost 8" Class 7 Clay EAC Surface 15'x12' 1.25" dowels	9.5" Trans Tined 5" Class 5 Clay 15x12 15x12 1.25" dowel	7.5" long tined 2.5" CI 1 5" Class 5 Clay 1.25" Dowels Neoprene Sealed 15'x12'	6" turf 5" 58-28 93 HMA Clay 6'x6' 1" dowels driving no dowels passing	6" turf 5" 58-28 93 HMA Clay 6'x6' No dowels	6" turf 6" 58-28 93HMA Clay 6'x6' 1" dowels driving no dowels passing	6" turf 6" 58-28 93HMA Clay 6'x6' no dowels	6" turf 7" 58-28 93HMA Clay 6'x6' 1" dowels driving no dowels passing	6" turf 7" 58-28 93HMA Clay 6'x12' Flat dowels driving no dowels passing	6" turf 7.5" 58-28 93HMA Clay 6'x6' 1" dowels driving no dowels passing	6" turf 8" 58-28 93HMA Clay 6'x6' no dowels	6" turf 8" 58-28 93HMA Clay 6'x6' 1" dowels driving no dowels passing	
Opened Length (ft) 480	267	210	469	499	512	81	24	136	31	36	109	24	24	102	
Gap (ft)	0	0	3	15	38	0	0	0	0	0	0	0	0	42	

Updated October 2013

WMA	Recycled Unbound Base, Warm Mix Asphalt				Low Temperature Cracking, Fractionated RAP				WMA, taconite
15	16	17	18	19	20	21	22	23	
3" WM 58-34 11" 64-22 1993 HMA Clay	5" WM 58-34 12" 100% recycle PCC 12" Class 3 7" Select Gran Clay	5" WM 58-34 12" 50% RePCC 50% Class 5 12" Class 3 7" Select Gran Clay	5" WM 58-34 12" 100% RAP 12" Class 3 7" Select Gran Clay	5" WM 58-34 12" Class 5 12" Class 3 7" Select Gran Clay	5" 58-28 12" Class 5 12" Class 3 7" Select Gran Clay 30% Non Fract RAP	5" 58-28 12" Class 5 12" Class 3 7" Select Gran Clay 30% Fract RAP	5" 58-34 12" Class 5 12" Class 3 7" Select Gran Clay 30% Fract RAP	5" WM 58-34 12" Mesabi Ballast 12" Class 3 7" Select Gran Clay	
Opened Length (ft) 500	500	500	500	500	500	500	500	500	
Gap (ft)	95	50	70	70	50	90	80	80	

* All thicknesses shown as design thickness