



Original Hot Mix Asphalt

5 year designs				10 year designs									
1	2	3	4	14	15	16	17	18	19	20	21	22	23
6" 58-28 75 blow	6.1" 58-28 35 blow	6.3" 58-28 50 blow	9.1" 58-28 gyratory	10.9" 58-28 75 blow	11.1" 62-22 75 blow	8" 62-22 gyratory	7.9" 62-22 75 blow	7.9" 62-22 50 blow	7.8" 62-22 35 blow	7.8" 58-28 35 blow	7.9" 58-28 50 blow	7.9" 58-28 75 blow	9.2" 58-28 50 blow
33" CI4sp	4" cl4sp	4" cl4sp	Clay	Clay	Clay	28" CI3sp	28" CI3sp	12" Cl6sp Drain 9" CI3sp	28" CI3sp	28" CI3sp	23" CI5sp	18" Cl6sp	4" PSAB 3" cl4sp Clay
Driving Lane 1.5' 52-34 HMA inlay 2006	28" CI4sp	33" CI3sp											
Clay	Clay	Clay											
Sep 92 May 08	Sep 92 May 08	Sep 92 May 08	Sep 92 May 08	Jul 93 May 08	Jul 93 May 08	Jul 93 May 08	Jul 93 May 08	Jul 93 May 08	Jul 93 May 08	Jul 93 May 08	Jul 93 May 08	Jul 93 May 08	Sep 93 May 08

SuperPave Inlay

50	51
3" 58-28 6" 58-28 Clay	3" 58-28 6" 58-28 Clay
HMA Restrict Zone	HMA Coarse
Jul 97 May 08	Jul 97 May 08

Micro Surfacing

1999
2003
2004

Original Asphalt Binder Note

58-28 = (120/150)
64-22 = (AC-20)

WM = Warm Mix

Each cell ~ 500' in length

Database has the most complete information (Report any changes)

Original Concrete

5 year designs				10 year designs				
5	6	7	8	9	10	11	12	13
7.1" Trans Tined	7.1" Trans Tined	7.1" Trans Tined	7.1" Trans Tined	7.1" Trans Tined	9.9" Trans Tined	9.9" Trans Tined	9.9" Trans Tined	9.9" Trans Tined
3" cl4sp	6" CI4sp	4" PSAB	4" PSAB	4" PSAB	4" PSAB	5" CI5sp	5" CI5sp	5" CI5sp
27" CI3sp	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay
20x14 20x13 HMA Should 1" dowel	15x14 15x13 1" dowel	20x14 20x13 1" dowel	15x14 15x13 13" PCC Should 1" dowel	15x14 15x13 13" PCC Should 1" dowel	20x12 20x12 1.25" dowel	24x12 24x12 1.25" dowel	15x12 15x12 1.25" dowel	20x12 20x12 1.5" dowel
Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay
Sep 92 May 08	Sep 92 May 08	Sep 92 Current	Sep 92 Current	Sep 92 Current	Sep 92 Current	Sep 92 Current	Sep 92 Current	Sep 92 May 08

1997 & 2004 Whitotopping

93	94	95	96	97	92	60	61	62	63
3.9" 9" 58-28 HMA	2.8" 10" 58-28 HMA	3" 10" 58-28 HMA	5.9" 7" 58-28 93HMA	5.9" 7" 58-28 93HMA	5.9" 7" 58-28 93HMA	5" 5" 58-28 93HMA	5" 5" 58-28 93HMA	4" sealed 8" 58-28 93HMA	4" nosel 8" 58-28 93HMA
Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Turf 6x5	Turf 6x5
Trans Tined 4x4 Polypro	Trans Tined 4x4 Polypro	Trans Tined 6x5 Poly-olefin	Trans Tined 6x5 Polypro	Trans Tined 12x10 Polypro	Trans Tined 12x10 Polypro	Turf 6x5	Turf 6x5	Turf 6x5	Turf 6x5
Oct 97 Oct 04	Oct 97 Oct 04	Oct 97 Oct 04	Oct 97 Current	Oct 97 Current	Oct 97 Current	Oct 04 Current	Oct 04 Current	Oct 04 Current	Oct 04 Current

Full Depth Reclamation

2	3	4
2" 64-34	2" 64-34	2" 64-34
6" FDR treated	6" FDR treated	8" FDR treated
6" FDR	2" FDR	9" FDR + Fly Ash
2" cl4sp	2" cl4sp	Clay
26" CI4sp	33" CI3sp	Clay
Clay	Clay	Clay
Oct 08 Current	Oct 08 Current	Oct 08 Current

LTC Overlay

15	16	17	18	19	20	21	22	23
3" WM	5" WM 58-34	5" WM 58-34	5" WM 58-34	5" WM 58-34	5" 58-28	5" 58-28	5" 58-34	5" WM 58-34
11.1" 64-22 1993 HMA	12" 100% recycle PCC	12" 50% RePCC 50% Class 5	12" 100% RAP	12" CI-5	12" CI-5	12" CI-5	12" CI-5	12" Mesabi Ballast
Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay
58-34 Surface Binder	12" CI3sp	12" CI3sp	12" CI3sp	12" CI3sp	12" CI3sp	12" CI3sp	12" CI3sp	12" CI3sp
	7" Select Gran	7" Select Gran	7" Select Gran	7" Select Gran	7" Select Gran	7" Select Gran	7" Select Gran	7" Select Gran
	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay
					30% Non Fract RAP	30% Fract RAP	30% Fract RAP	
Oct 08 Current	Oct 08 Current	Oct 08 Current	Oct 08 Current	Oct 08 Current	Oct 08 Current	Oct 08 Current	Oct 08 Current	Oct 08 Current

Low Temp Cracking

15	16	17	18	19	20	21	22	23
3" WM	5" WM 58-34	5" WM 58-34	5" WM 58-34	5" WM 58-34	5" 58-28	5" 58-28	5" 58-34	5" WM 58-34
11.1" 64-22 1993 HMA	12" 100% recycle PCC	12" 50% RePCC 50% Class 5	12" 100% RAP	12" CI-5	12" CI-5	12" CI-5	12" CI-5	12" Mesabi Ballast
Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay
58-34 Surface Binder	12" CI3sp	12" CI3sp	12" CI3sp	12" CI3sp	12" CI3sp	12" CI3sp	12" CI3sp	12" CI3sp
	7" Select Gran	7" Select Gran	7" Select Gran	7" Select Gran	7" Select Gran	7" Select Gran	7" Select Gran	7" Select Gran
	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay
					30% Non Fract RAP	30% Fract RAP	30% Fract RAP	
Oct 08 Current	Oct 08 Current	Oct 08 Current	Oct 08 Current	Oct 08 Current	Oct 08 Current	Oct 08 Current	Oct 08 Current	Oct 08 Current

Unbonded PCC Overlay

105	205	305	405	106	206
4" 7.1" cracked 93 PCC	4" 7.1" 93 PCC	5" 7.1" 93 PCC	5" 7.1" 93 PCC	2" 64-34 5" CI-5	2" 64-34 5" CI-5
3" cl4sp	3" cl4sp	3" cl4sp	3" cl4sp	Clay	Clay
27" CI3sp	27" CI3sp	27" CI3sp	27" CI3sp	Borrow Clay	Borrow Clay
Orig 20x14 20x13 HMA Should 1" dowel	Orig 20x14 20x13 HMA Should 1" dowel	Orig 20x14 20x13 HMA Should 1" dowel	Orig 20x14 20x13 HMA Should 1" dowel	Mesabi 4.75 SuperP	Mesabi 4.75 SuperP
Clay LTime	Clay LTime	Clay LTime	Clay LTime	15'x12' 1" dowel	15'x12' no dowels
Oct 08 Current	Oct 08 Current	Oct 08 Current	Oct 08 Current	Oct 08 Current	Oct 08 Current

2009 SHRP-II Composite Designs

TBD Being Designed				
2009	2009	2009	2009	2009

Thin Concrete

113	213	313	413
5"	5.5"	6"	6.5"
5" CI-5	5" CI-5	5" CI-5	5" CI-5
Clay	Clay	Clay	Clay
heavy turf	heavy turf	heavy turf	heavy turf
15'x12'	15'x12'	15'x12'	15'x12'
Oct 08 Current	Oct 08 Current	Oct 08 Current	Oct 08 Current

2008 Whitotopping

114	214	314	414
6" light turf	6" light turf	6" light turf	6" light turf
5" 58-28 93 HMA	6" 58-28 93 HMA	5" 58-28 93 HMA	8" 58-28 93 HMA
Clay	Clay	Clay	Clay
6'x6' 1" dowels driving	6'x6' no dowels	6'x6' 1" dowels driving	6'x6' no dowels
no dowels passing		no dowels passing	
Oct 08 Current	Oct 08 Current	Oct 08 Current	Oct 08 Current