

## APPENDIX F: PAVEMENT CONDITION INDEX AND PAVEMENT MANAGEMENT ANALYSIS – HAMPSHIRE COUNTY

Pavement inventory and distress data was collected by PVPC staff during the month of November 2006. This data was applied to the pavement management software package, "The Road Manager." The Road Manager generates a pavement condition index (PCI) for each inventoried roadway segment of Route 112 using distress data collected by PVPC staff. Deduct values assigned to each type of distress based on severity and extents were applied to generate a PCI for each roadway segment. The PCI is measured from 0 to 100, with 100 being an excellent condition and zero being poor condition. The PCI values generated are grouped into PCI category ranges which are defined by the user depending on the type and functional class of each segment.

**PCI Listing of Roadway Segments in Ascending Order of PCI**

Community	Roadway Name	Segment Starting Point	Length	Segment Ending Point	PCI
Cummington	GROUT ROAD	0.06 MILES	2270	WEST CUMMINGTON ROAD	41
Cummington	BRYANT ROAD	MARINE CORPS LEAGUE HIGHW	5386	GROUT ROAD	44
Cummington	WEST CUMMINGTON ROAD	GROUT ROAD	3802	HOUSE 338	47
Huntington	WORTHINGTON ROAD	RUSSELL ROAD	845	FISKE AVENUE	47
Huntington	WORTHINGTON ROAD	MONTGOMERY ROAD	9926	HOUSE #191	49
Worthington	DINGLE ROAD	CUMMINGTON ROAD	6283	CLARK ROAD	51
Cummington	WEST CUMMINGTON ROAD	HOUSE 338	7234	WORTHINGTON T.L.	55
Worthington	CLARK ROAD	DINGLE ROAD	3696	WILLIAMSBURG ROAD	59
Cummington	GROUT ROAD	BRYANT ROAD	317	0.06 MILES	61
Huntington	WORTHINGTON ROAD	POND BROOK ROAD	9029	1.7 MILES	61
Cummington	MARINE CORPS	GOSHEN T.L.	15946	THAYER CORNER ROAD	64
Goshen	MARINE CORPS HWY	SEARS ROAD	6706	CUMMINGTON T.L.	64
Worthington	CUMMINGTON	CUMMINGTON T.L.	1056	DINGLE ROAD	64
Huntington	WORTHINGTON ROAD	1.7 MILES	17318	WORTHINGTON T.L.	66
Worthington	WILLIAMSBURG	CLARK ROAD	3960	ELDERBERRY LANE	74
Goshen	CAPE STREET	MOLLISON HILL ROAD	370	.07 MILES	75
Goshen	CAPE STREET	.07 MILES	211	.04 MILES	75
Goshen	CAPE STREET	.04 MILES	739	.14 MILES	75
Goshen	CAPE STREET	.14 MILES	581	.11 MILES	75
Goshen	CAPE STREET	.11 MILES	4330	.82 MILES	75
Goshen	CAPE STREET	.82 MILES	1003	.19 MILES	75
Goshen	CAPE STREET	.19 MILES	2112	ASHFIELD T.L.	75
Huntington	WORTHINGTON ROAD	PLEASANT STREET	3221	HOUSE #46	76
Cummington	MARINE CORPS	MAIN STREET	5333	BRYANT ROAD	80
Worthington	WILLIAMSBURG	ELDERBERRY LANE	792	OLD NORTH ROAD	80
Goshen	MARINE CORPS HWY	CAPE STREET	7762	SEARS ROAD	81
Cummington	MARINE CORPS	THAYER CORNER ROAD	1478	MAIN STREET	83
Huntington	WORTHINGTON ROAD	HOUSE #46	3274	MONTGOMERY ROAD	85
Huntington	WORTHINGTON ROAD	HOUSE #191	792	POND BROOK ROAD	87
Huntington	WORTHINGTON ROAD	FISKE AVENUE	475	PLEASANT STREET	89
Goshen	CAPE STREET	MARINE CORPS LEAGUE	322	WILLIAMS DRIVE	95
Goshen	CAPE STREET	WILLIAMS DRIVE	522	MOLLISON HILL ROAD	95
Worthington	HUNTINGTON ROAD	WILLIAMSBURG ROAD	31310	HUNTINGTON T.L.	100

Source: PVPC

PCI = Pavement Condition Index

Length of segment is in Feet

**Estimated Improvements Costs**

Name	From	To	Length (Ft.)	Orig PCI	Repaired PCI	Benefit Value	Recommended Repair	Cost
<b>Goshen</b>		Average PCI		59	Community Total			
MARINE CORPS LEA	SEARS ROAD	CUMMINGTON T.L.	6706	64	99	161	Rehabilitation	\$1,919,888
MARINE CORPS LEA	CAPE STREET	SEARS ROAD	7762	81	99	100	Preventative	\$178,827
CAPE STREET	MOLLISON HILL ROAD	.07 MILES	370	75	99	53	Preventative	\$8,017
CAPE STREET	.07 MILES	.04 MILES	211	75	99	53	Preventative	\$4,572
CAPE STREET	.04 MILES	.14 MILES	739	75	99	53	Preventative	\$16,012
CAPE STREET	.14 MILES	.11 MILES	581	75	99	53	Preventative	\$12,588
CAPE STREET	.11 MILES	.82 MILES	4330	75	99	53	Preventative	\$93,817
CAPE STREET	.82 MILES	.19 MILES	1003	75	99	53	Preventative	\$21,732
CAPE STREET	.19 MILES	ASHFIELD T.L.	2112	75	99	53	Preventative	\$45,760
CAPE STREET	MARINE CORPS LEAGUE	WILLIAMS DRIVE	322	95	95	0	No Immediate	\$0
CAPE STREET	WILLIAMS DRIVE	MOLLISON HILL ROAD	522	95	95	0	No Immediate	\$0
<b>Cummington</b>								
GROUT ROAD	0.06 MILES	WEST CUMMINGTON ROAD	2270	41	99	171	Reconstruction	\$166,467
MARINE CORPS	GOSHEN T.L.	THAYER CORNER ROAD	15946	64	99	161	Rehabilitation	\$425,227
BRYANT ROAD	MARINE CORPS LEAGUE	GROUT ROAD	5386	44	99	159	Reconstruction	\$430,880
WEST CUMMINGTON	GROUT ROAD	HOUSE 338	3802	47	99	148	Reconstruction	\$253,467
WEST CUMMINGTON	HOUSE 338	WORTHINGTON T.L.	7234	55	99	126	Reconstruction	\$482,267
GROUT ROAD	BRYANT ROAD	0.06 MILES	317	61	99	113	Reconstruction	\$25,360
MARINE CORPS	MAIN STREET	BRYANT ROAD	5333	80	99	101	Preventative	\$106,660
MARINE CORPS	THAYER CORNER ROAD	MAIN STREET	1478	83	99	98	Preventative	\$29,560
<b>Worthington</b>		Average PCI		70	Community Total			
CUMMINGTON ROAD	CUMMINGTON T.L.	DINGLE ROAD	1056	64	99	161	Rehabilitation	\$23,467
DINGLE ROAD	CUMMINGTON ROAD	CLARK ROAD	6283	51	99	136	Reconstruction	\$418,867
CLARK ROAD	DINGLE ROAD	WILLIAMSBURG ROAD	3696	59	99	117	Reconstruction	\$246,400
WILLIAMSBURG ROAD	CLARK ROAD	ELDBERRY LANE	3960	74	99	108	Preventative	\$72,600
WILLIAMSBURG ROAD	ELDBERRY LANE	OLD NORTH ROAD	792	80	99	100	Preventative	\$15,840
WORTHINGTON ROAD	WILLIAMSBURG ROAD	HUNTINGTON T.L.	31310	100	95	0	No Immediate	\$0
<b>Huntington</b>		Average PCI		78	Community Total			
WORTHINGTON ROAD	1.7 MILES	WORTHINGTON T.L.	17318	66	99	159	Rehabilitation	\$536,565
WORTHINGTON ROAD	RUSSELL ROAD	FISKE AVENUE	845	47	99	148	Reconstruction	\$442,571
WORTHINGTON ROAD	MONTGOMERY ROAD	HOUSE #191	9926	49	99	145	Reconstruction	\$794,080
WORTHINGTON ROAD	POND BROOK ROAD	1.7 MILES	9029	61	99	115	Reconstruction	\$692,223
WORTHINGTON ROAD	PLEASANT STREET	HOUSE #46	3221	76	99	108	Preventative	\$59,052
WORTHINGTON ROAD	HOUSE #46	MONTGOMERY ROAD	3274	85	99	95	Preventative	\$60,023
WORTHINGTON ROAD	HOUSE #191	POND BROOK ROAD	792	87	99	93	Preventative	\$15,180
WORTHINGTON ROAD	FISKE AVENUE	PLEASANT STREET	475	89	99	91	Preventative	\$9,896
		Average PCI		71	Community Total			
<b>Grand Total</b>								\$5,377,069
								Average PCI for the Corridor
								70