

Tour of selected Iowa County Highways – Concrete Overlay

November 8, 2007

Executive Summary:

This table recaps each project's details and is in the order of the Tour.

County	Rte	Mile	Termini	Year – V. P. D.	Thick	Existing Road	Prep
Mitchell	T38	4.3	Osage to S.C.L	1983 - 1150	6		Milled
Floyd	B60	2.5	Marble Rock to IA 14	1989 - 970	5		None
Hardin	D15	6.8	1 mi E of S55 to Iowa Falls	1989 - 1140	4.5 *	2 - 2" lifts HMA 4" rolled stone 6" cement treated soil	None
Wright	C54	2.65	Eagle Grove to R33	1990 - 810	5	6" HMA 6" rolled stone 4" Soil Aggregate	None
Hancock	R68	5.6	B55 to B36	1993 - 390	5	Existing section not indicated on plan sheet.	None

All surfaces were 22' wide; except *, at 24'

All routes are in "farm country" – lots of product to market. T38 in Mitchell also had a construction company stockpile yard along the route, plus an active rock quarry.

Edge cracking could be the result of "lack of support" from the underlying blacktop or narrow driving lanes.

Tining (not used any more in Minnesota, due to noise reduction efforts) did not appear to cause any major spalling across the joints.

Joints appeared tight and without any distress, except parts of Mitchell Co. T38, where spalling appeared to be a mix problem, not a thickness design problem.

Conclusions:

Minimal preparation for construction

Thicknesses are not "designed"

Smooth ride, with minimal faulting

Structurally sound after 15 – 20 years of service. Maintenance activities not required!

Attendance: County Engineers (unless noted otherwise)

Fillmore – John Grindeland

Freeborn – Sue Miller

Houston – Marcus Evans

McLeod – John Brunkhorst

Rice – Dennis Luebbe

Olmsted – Curt Bolles, Bruce Belter (Construction)

Waseca – Nathan Richman

Winona – Dave Kramer

Iowa Concrete Paving Association: Tom Parsons, Clare Schroeder

Concrete Paving Association of Minnesota: Matt Zeller, Brad Skow, Bob McPartlin

County: Mitchell

Route Number: T 38

Termini: Osage to South Co. Line 4.3 miles

Construction Date: 1983 – 1150 vpd

Thickness: 6" x 22'

Existing asphalt thickness & surface prep: milled asphalt surface

Present County Engineer / Phone #: James Hyde 641.732.5849

General comments

Faulted panels. 12' panel, skewed joints. Rock quarry and construction stockpile yard are on this segment.





County: Floyd

Route Number: B60

Termini: Marble Rock to TH 14 2.5 miles

Construction Date: 1989 970 vpd

Thickness: 5" x 22'

Existing asphalt thickness & surface prep ?? - none

Present County Engineer / Phone #: Dustin Rolando 641.257.6151 ext 102

General comments:

15', square panels. Rode smooth





County: Hardin

Route Number: D15

Termini: 1 mile east of S55 to Iowa Falls 6.8 miles

Construction Date: 1989 1140 vpd

Thickness: 4.5" x 24'

Existing asphalt thickness & surface prep: 6" cement-treated soil, 4" rolled rock, 4" HMA (2 lifts) – no prep

Present County Engineer / Phone # - Gary Mauer 641.858.5058

General comments:

Skewed joints. Very smooth ride.





County: Wright

Route Number: C54

Termini: Eagle Grove to R33 - 2.65 miles

Construction Date: 1990 810 vpd

Thickness: 5" x 22'

Existing asphalt thickness & surface prep: ?? - none

Present County Engineer / Phone # - Stephen Reitz 515.532.3597

General comments

15' skewed panels virtually no cracking. Smooth ride. Belly dumps were hauling during this inspection time.





County: Hancock

Route Number R68

Termini from B55 to B36 – 5.6 miles

Construction Date: 1993 290 vpd

Thickness: 5" x 22'

Existing asphalt thickness & surface prep: ?? - none

Present County Engineer / Phone # - Bill Waddingham 641.923.2243

General comments: skewed joints





In Attendance (Left to Right / Top to Bottom):
Tom Parsons, ICPA; Nathan Richman, Waseca Co; John Grindeland, Fillmore Co
John Brunkhorst, McLeod Co; Dave Kramer, Winona Co; Sue Miller, Freeborn Co
Bruce Belter, Olmsted Co (Construction); Clare Schroeder, ICPA; Matt Zeller, CPAM
Curt Bolles, Olmsted Co (Construction); Marcus Evans, Houston Co; Dennis Luebbe, Rice Co
Not Pictured: Brad Skow, CPAM, Bob McPartlin, CPAM
Last minute cancellations: Dietrich Flesch, Wabasha Co; Dan Kenison, Freeborn Co (Asst)