

Memorandum



CITY OF DALLAS

DATE August 22, 2008

TO Members of Transportation and Environment Committee: Linda Koop, Chair; Sheffie Kadane, Vice Chair; Jerry R. Allen, Carolyn R. Davis, Vonciel Jones Hill, Angela Hunt, Pauline Medrano, Ron Natinsky

SUBJECT Pavement Management Program Update
August 26, 2008

Attached is the material for the Pavement Management Program Update briefing that will be presented to you on August 26, 2008.

Please contact me if you need additional information.

A handwritten signature in black ink, appearing to read 'Ramon F. Miguez'.

Ramon F. Míguez, P.E.
Assistant City Manager

Attachment

c: The Honorable Mayor and Members of the City Council
Mary K. Suhm, City Manager
Thomas P. Perkins, Jr., City Attorney
Deborah Watkins, City Secretary
Craig Kinton, City Auditor
Judge C. Victor Lander, Judiciary
Ryan S. Evans, First Assistant City Manager
David O. Brown, Interim Assistant City Manager
Jill A. Jordan, P.E., Assistant City Manager
A.C. González, Assistant City Manager
David Cook, Chief Financial Officer
Jeanne Chipperfield, Director, Budget and Management Services
Edward Scott, Director, Controller's Office
Helena Stevens-Thompson, Assistant to the City Manager – Council Office
Rick Galcerán, P.E., Director, Public Works and Transportation



Pavement Management Program Update

Presented to

Transportation and Environment Committee

August 26, 2008



Pavement Management Objectives

*Pavement Management: **systematic** and **cost effective** planning, design, construction, operation, and maintenance of pavements*

Program History

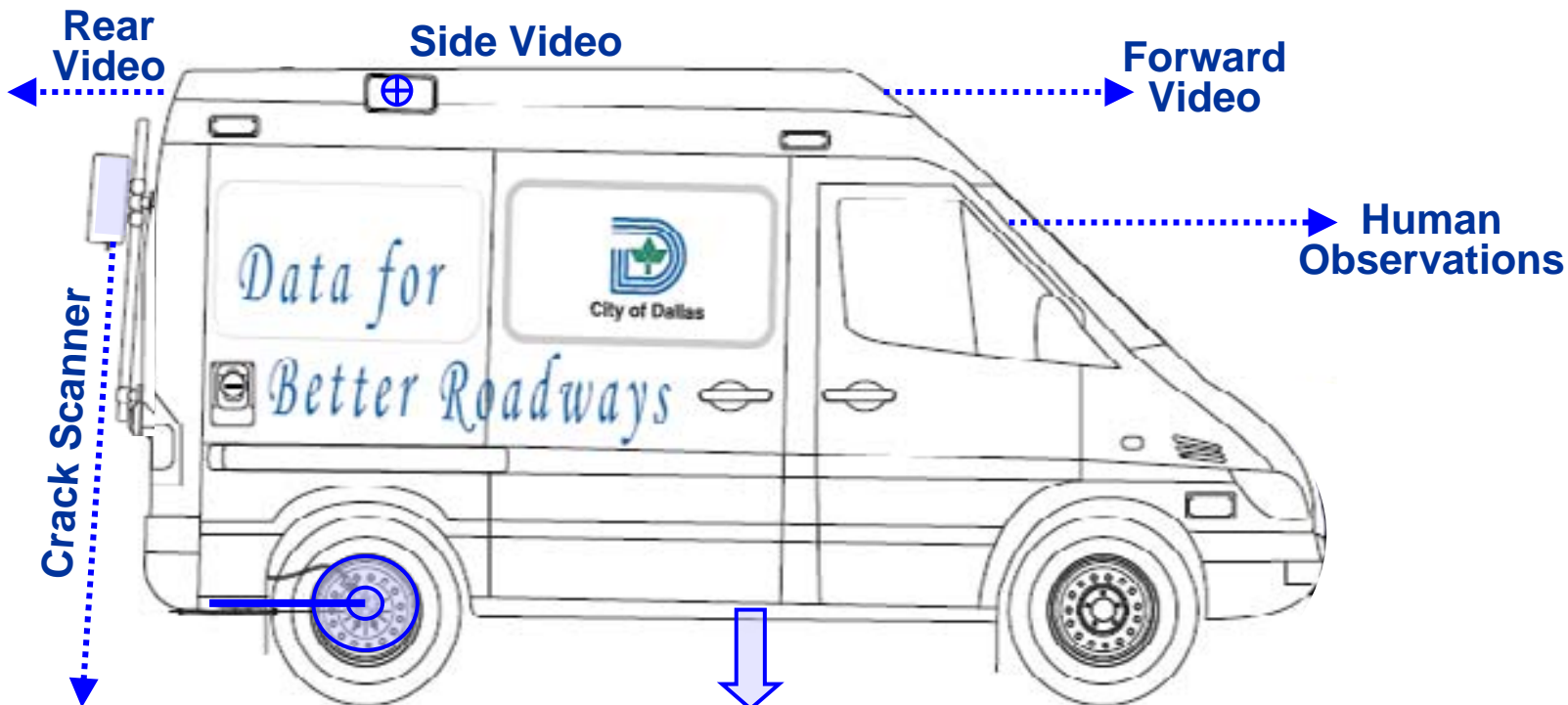


One of very few cities with such an extensive program for 20 or more years

Data Collection System

Objectively Measures and Quantifies Pavement Distress

Inertial
Navigation



Distance
Measurements

Mid-Mount
Profile
Lasers

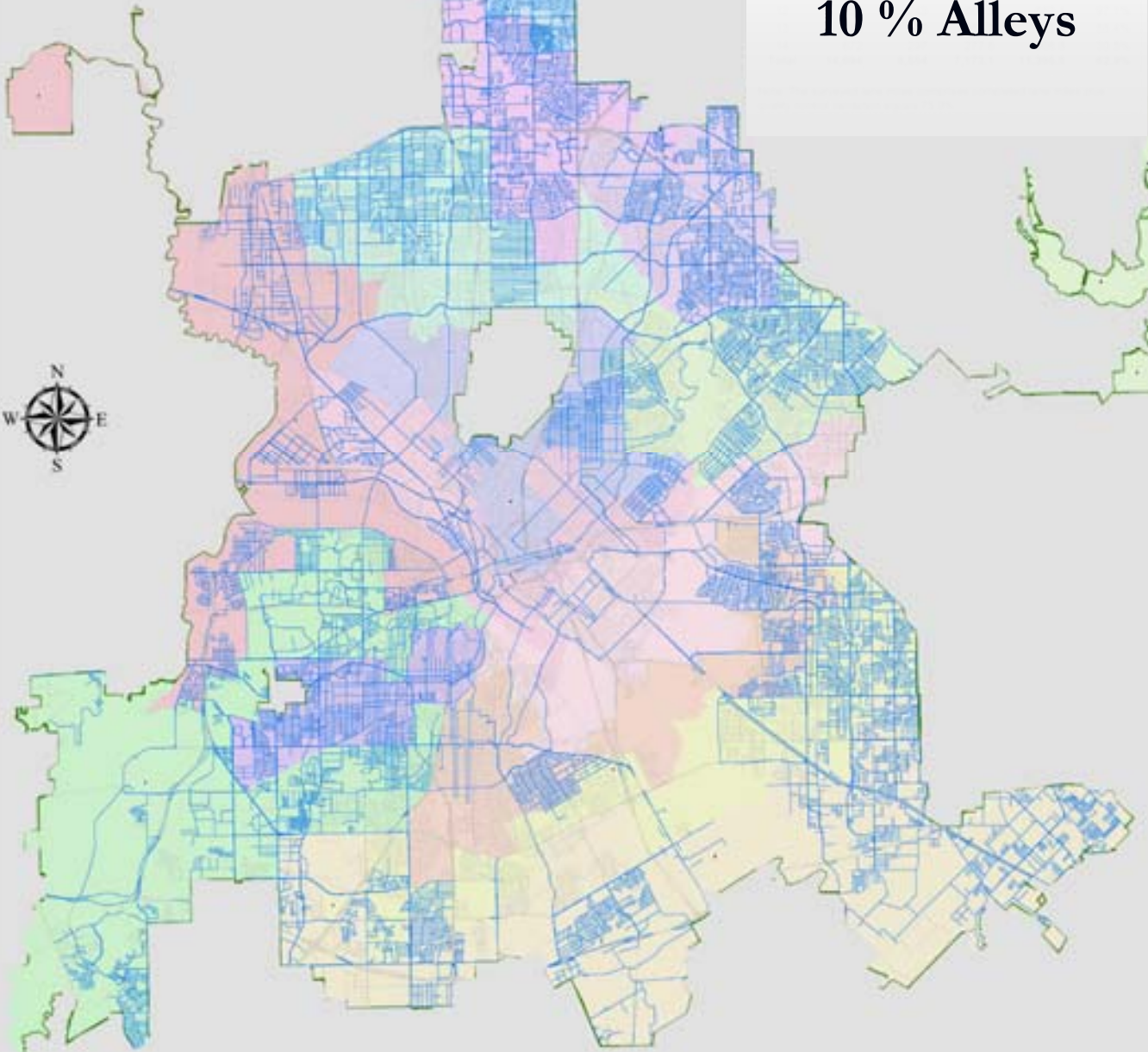
Heavy Falling Weight Deflectometer



(FWD)

- Measures strength of pavement
- Identifies subsurface issues
- Enhances cost estimating
- Improves repair decisions

75% Streets
10 % Alleys



Planned vs Actual Implementation

Task	Planned	Revised	Comments
Assess all streets	12/07 – 7/08	12/07 – 10/08	Delayed by system integration/configuration
Assess 33% of alleys	7/08 – 9/08	10/08 – 12/08	10% assessed as part of system configuration
Procure structural equipment	11/07 – 3/08	3/08 – 12/08	Rescheduled to take advantage of lower pricing/market conditions
Develop FY08/09 O&M Program	8/08	8/08 – 9/08	Refining preliminary model runs in coordination with Street Services

Current Projects



Inventory Van



Alley Inventory Car



Structural Truck Falling Weight Deflectometer (FWD)

STREETS

- Refining data collection processes
- Performing system maintenance
- Fine-tuning configuration

ALLEYS

- Retrofitting existing vehicle
- Developing Operating Guidelines
- Training staff

UNDERLYING STRENGTH

- Vehicle delivery expected Oct/Nov
- FWD procurement in progress
- Council award anticipated 12/08

Winter/Spring Briefing

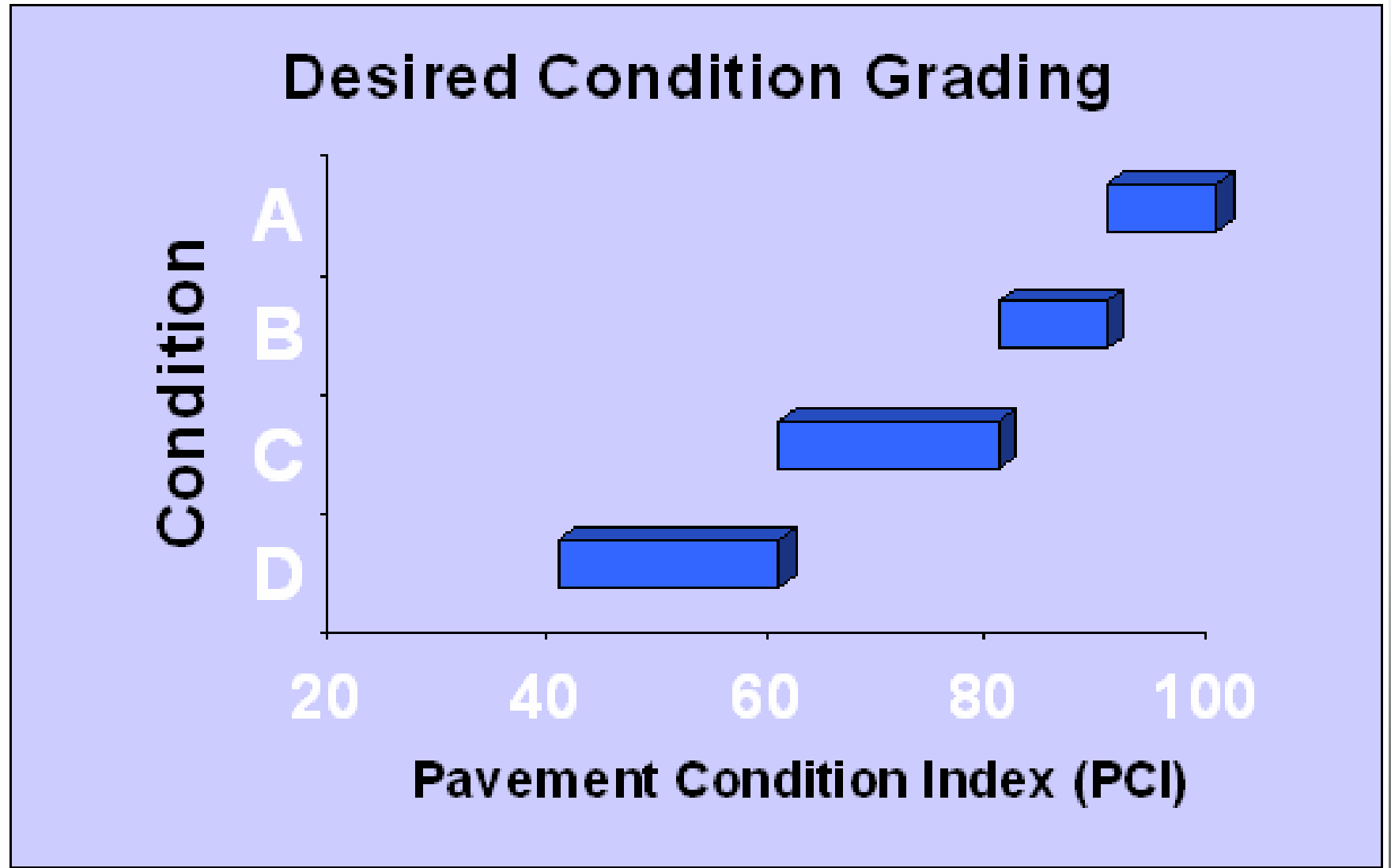
- **Update on data collection**
- **Update on street condition goals**
- **Frequency of data collection**
- **Condition grading**

Winter / Spring Briefing

Current Condition Grading



Winter / Spring Briefing



Data for Better Roadways



Questions and Comments?

