Inspection

Doug Ford
Pavement Coatings Co.
What is the Main Goal

- Agency/Owner
  - Quality Project
- Contractor
  - Profit

How Do We Achieve Both?
Partnership

- Working together there is no reason both goals can not be achieved
Inspection
Best Practices in Partnering

Doug Ford
Pavement Coatings Co.
Honesty
Four Characteristics Necessary for the Inspector and Contractor

- Knowledge of the System
- Common Sense
- Observational Skills
- Courtesy (Diplomacy, Field Resolution)
Knowledge of the Systems

- Understanding of the Systems and what to expect

- Training
  - Informal through contractors and agencies
  - CCSA Workshop
  - ISSA Slurry Systems Workshop
  - ISSA Inspectors Manual & Technical Bulletins
  - Various written Best Practices & Specifications

- Familiar w/Contract and Specs
  - Preview the job (surface prep, etc. complete?)
  - Paperwork in order? (Mix designs, calibration info, etc.)
  - Slurry or Micro? Type I,II, or III? Application rates?
  - Chip Seal Binder? Aggregate size and Type?
Common Sense

- Have an open mind, deal w/changing conditions
- Flexibility to work within framework of specs
  - Special events, come back to that site later (FedEx Field)
  - Arrange for road closure (very narrow roads)
  - Adjust binder content (within Job Mix Range) for slick roads
  - Any other ideas?
Observational Skills

- Important to know what he sees
- Will improve w/OTJ experience
  - Slurry won’t look as good on Day 1 as on Day 20
  - All slurries will ravel initially
  - What causes discoloration?
  - How much Chip is too little or too much

**Recognize unsafe conditions**

Work zone properly set up? (Signs, cones, etc.)
Build the Trust

- Starts at the preconstruction meeting
  - What is important to the Owner?
  - Can the contractor meet the expectations?
  - What will be done to exceed the expectations?

- During Construction
  - Follow through with agreements
  - Provide documentation
  - Communicate

- Closing the job
  - Most items should be discussed well before the end of a project
Three Major Categories

Safety is always #1
- Materials
- Workmanship
- Quantities
Materials

- Mix Design
  - Have copies for Owner and Contractor
    - Aggregate and Binder Suppliers
    - Design Requirements – Emulsion/Asphalt Percent

- Testing
  - What Testing Will Be Completed
  - Agree on Testing Practices
    - Quantity of test taken
    - Sample retrieval
  - Discuss When Test Results Will Be Provided
Workmanship

- Very Visual – Remember this is a Partnership
Existing Surface

- Asphalt Condition
- Cracks
- Striping
- Ride
Construction

Chip Seal

- Preparation
  - Clean and dry

- Equipment
  - Distributor
    - Calibration
    - Spray bar, nozzles, pattern, pressure
  - Chip Spreader
    - Calibration
    - Gate Control, belts, truck hookup
  - Haul Trucks
    - Clean Box
    - Hookup Hitch
  - Rollers
  - Sweeper
    - Brooms in good condition
    - Water system
Agree When Things are Wrong
Finished Surface

- Edges
  - Straight

- Texture
  - Consistent and right for the application

- Color
  - Consistent

- Seams
  - Clean
  - On Lane Lines
Finished Surface
Quantities

- Materials
  - Aggregate
  - Emulsion/Binder
- Spread Rates
- Pay Quantities
Calibration

- Chip Spreader
- Distributor
  - Set per computer and compare against the measuring device on the truck.
- Slurry Machine
Chip Seal

- Measure area prior to application
- Agree upon target spread rates
- Adjustments
  - Pavement Condition
  - Weather
- Utilize computer output and compare to delivery tickets
- Visually inspect tanks and stockpile
Slurry/Micro

- Measure area prior to application
- Agree upon target spread rates
- Adjustments
  - Pavement Condition
  - Weather
- Utilize computer output and compare to delivery tickets
- Visually inspect tanks and stockpile
### Sharing Information

**Table: AGGREGATE**

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**Pavement Coatings Co.**

**Stockpile #1**

**Material Delivered**

**Slurry Contract F. V. 322**

**Location:** 2017

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**Pavement Coatings Co.**

**Stockpile #1**

**Material Delivered**

**Slurry Contract F. V. 322**

**Location:** 2017

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**Preserving Roads**

International Slurry Surfacing Association
Sharing Information
State the Obvious
Final Quantities

- Utilize all methods of material tracking
  - Computer
    - Spreader tuck, chip spreader, slurry/micro machine
  - Truck/Box/Load count
    - Estimated load size time number of loads
  - Visual Inspection vs. Delivery Tickets
    - Aggregates on the ground
    - Emulsions in tanks
Job Completion

- Pay Quantities Need to be agreed upon at the completion of the project
- Keep up to date as job progresses
- Communicate any issues that would cause a delay in agreement and solve the problem prior to the last day.
1 x Days Wages: $63.37
1 x Tin of Paint: $29.99
Realising that you are too stupid and you should have stayed in SCHOOL:
PRICELESS!!!!!!!
What a Good Relationship Between Contractor and Inspector Means

- Improved **SAFETY**
- Improved **QUALITY**
- Improved **PRODUCTION**
- Improved **MORALE**
Pavement Preservation at its best

Before

After

Questions?

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