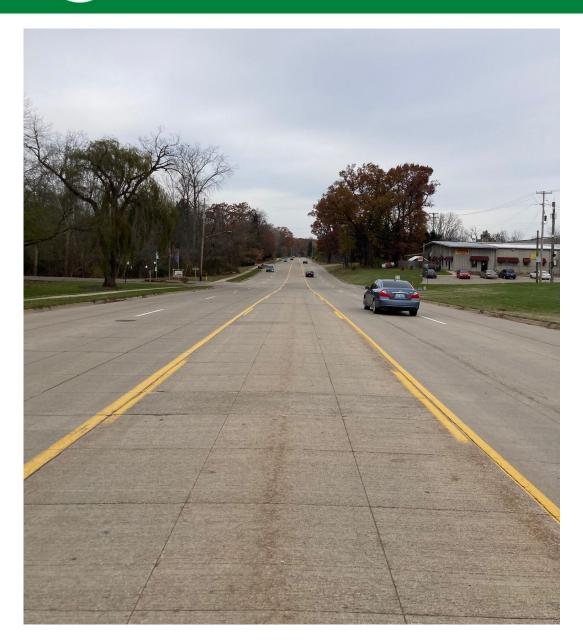
CONCRETE PAVEMENT REHABILITATION



Wayne A. Harrall, PE
Deputy Managing Director - Engineering



Concrete Pavement Rehabilitation



PURPOSE

- Repair a Specific Distress
- Improve Ride Quality
- KCRC has approx. 28 Miles of Concrete Roads



Project Scoping





Figure A 5-694.901

Figure B 5-694.901



Figure C 5-694.901



Concrete Pavement Rehabilitation

Full Depth

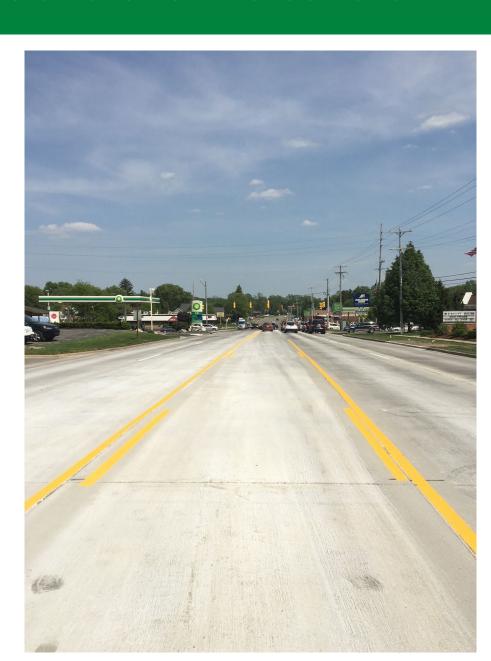
Unbonded Concrete Overlay

Joint Repair/Seal

Diamond Grinding

Slab Lifting/Stabilization

HMA Overlay





Unbonded Concrete Overlay







Full Depth Repair



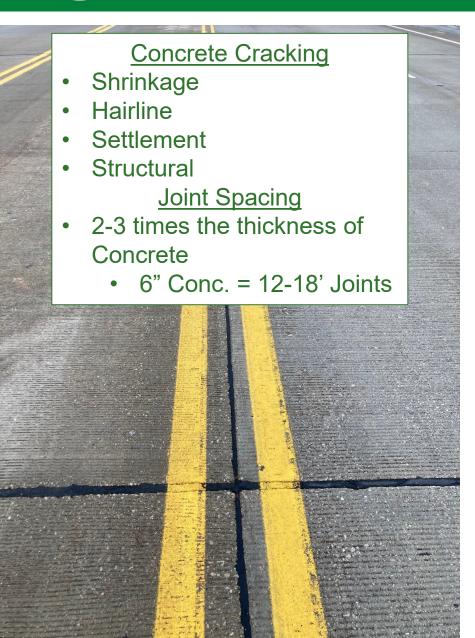
White Topping

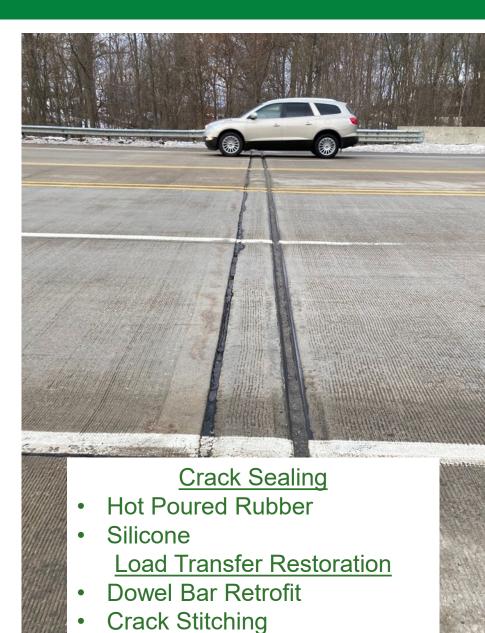
- 4" = 4'x4' Joint Grid
- 6" = 6'x6' Joint Grid
- Transverse Expansion joints every 500 ft.





Joint Repair/Sealing







Diamond Grinding



- Improve Ride Quality
- Reduce Dynamic Loads
- Reduce Tire Noise
- Overlay Alternate



Slab Lifting/Stabilization



- High Density Polyurethane Foam
- Cementitious Grout or Flowable Fill





HMA Overlay







Concrete Rubblizing







Crack and Seat





Concrete Intersections





Concrete Pavement Challenges





Proper Repair Methods?



