

I-64 Segment II, Williamsburg, VA

- -Project Length: 7.08 miles
- -Build 2 new lanes & one new shoulder in each direction (12" cement treated recycled crushed concrete, 2" OGDL, 6" CCPRM, 2" SMA-19 & 2" SMA 12.5
- -Remove 2 existing lanes and 1 existing shoulder in each direction and replace with 12" FDR, 2" OGDL, 6" CCPRM, 2" SMA-19 & 2" SMA 12.5
- -150,000 tons cement treated recycled crushed concrete, 350,000 SY FDR, 190,000 tons CCPRM & 220,000 tons of **Hot Mix Asphalt**



FDR & CCPRM

CCPRM Mix Design

Trial and Error Process

- Determine the Raw material to be used.
- Foam or Emulsified Asphalt Stabilized Material
- Design and initial testing.
- The Job Mix Formula (JMF)

Now the Real Work Begins!

CCPRM Initial Testing and Trials

- JMF evaluation using the KMA 220 plant
- Working though the testing procedures
- Trial runs offsite to evaluate placement and compaction equipment to be used.
- Performed two of them offsite at New Kent Facility.
- Performed two on project site for Allan Myers and VDOT testing prior to full production



CCPRM Full Production

Started on November 2, 2017

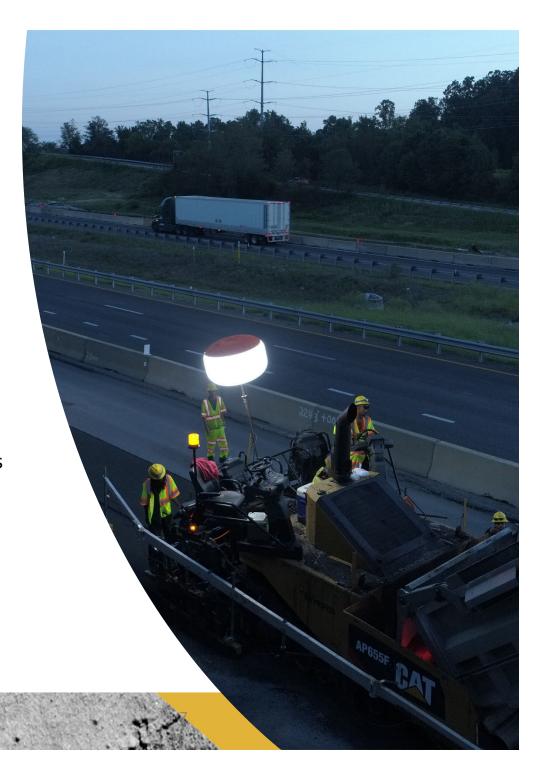
Plant Logistics

- Cement Supply
- Processed material stockpiled and tested
- Organized Yard for Safe Operations
- Load Out of trucks and Sampling

CCPRM Full Production

Field Logistics

- Trucking Routes and Truck Count
- Training of Crew about Product
- Setting up Electronics and Depth Controls



CCPRM Full Production

Field Logistics

- Establishing Density Field Targets
- Daily Testing and Monitoring
- Setting up Production Shift for Success
- Process of Tracking all Data

PROBLEMS!!

Solving Them!!

CCPRM Full Production

Field Equipment Used

- CAT AP655F Model with SE50V Vibratory Screed
- CAT AP1055F Model with SE60V Vibratory Screed
- CAT CB54B Double Drum Asphalt Roller (12 ton)
- HAMM H12I Compactor with Vibratory (13 ton)
- HAMM H20 Compactor with Vibratory (22 ton)

CCPRM Lessons Learned



CCPRM Lessons Learned

Mix Lessons

- Importance of the Temperature requirements
- Value of processed material
- Proper Moisture testing and plant settings

Field Lessons

- Establishing Target using One Point Proctor
- Proper Compaction Techniques for 98% of Target
- Proper Thickness Controls and Smoothness
- Realizing Issues though Mix appearance

CCPRM Bonding

Special Provision for Tack Application.



FULL DEPTH RECLAMATION



FULL DEPTH RECLAMATION



FULL DEPTH RECLAMATION

Establishing the Mix Designs

- Prior to the material being exposed
- Number of Designs Established (95 plus)
- Determining which Design Appropriate

Process of Installing

- Grade
- Mixing Material in place and selecting the JMF
- Meeting Density Requirements





Equipment Used to Install

- WIRTGEN WR 250 Series
- HAMM H20I Compactor w/Vibratory Smooth
- HAMM H20I Compactor w/Padfoot Drum & Blade
- Volvo A30 Articulated Dump w/ Stoltz
 30ton fully automated spreader box

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- Powhatan
- Rockville
- Petersburg
- New Kent
- Chesapeake

