



THE ART of CONCRETE

Natural Grey Concrete Surfaces

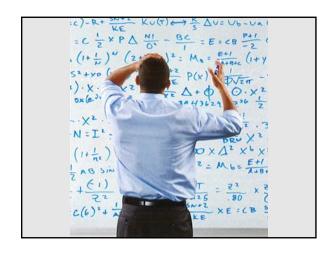
for Visual Quality and Sustainability



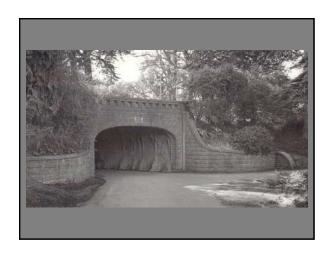




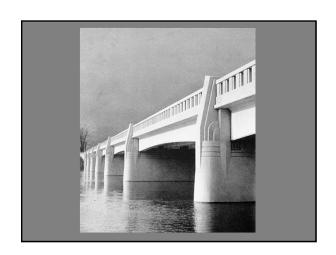


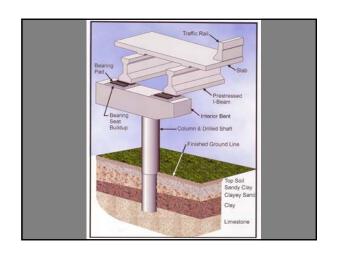


Background











## Coatings











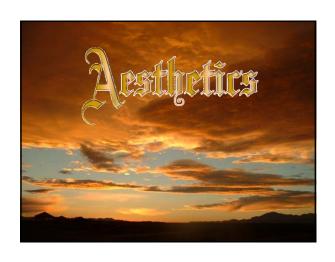




"TxDOT takes this wonderful, maintenance-free material called concrete...

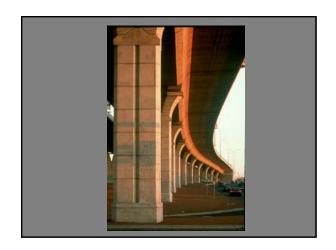
-Dr. John Breen University of Texas ca. 1996 "TxDOT takes this wonderful,
maintenance-free material called
concrete... and then they paint it."

-Dr. John Breen University of Texas ca. 1996





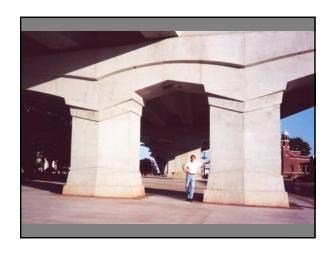






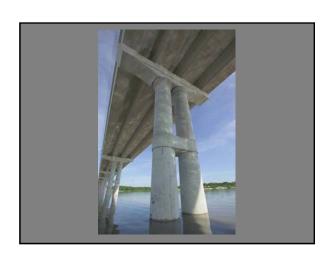








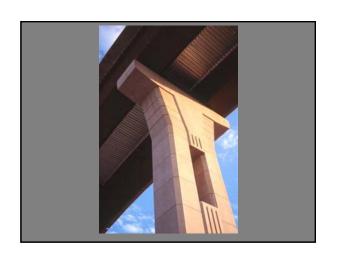






















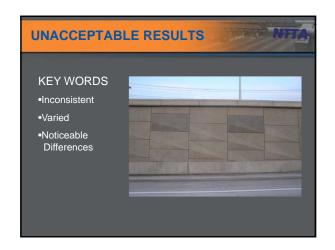


Visual Quality Program:

Define Goals









Visual Quality Program:

Owner Expectations







Visual Quality Program:

VQ Defects



































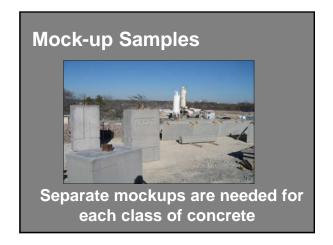




VQ Defects:

Possible Solutions



























Celebrate VQ Successes











Lessons Learned















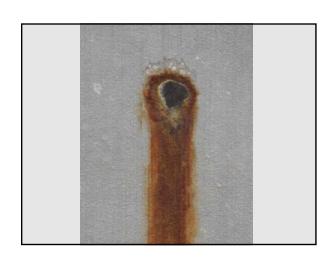












## Lessons Learned: Slipformed rail



















Lessons Learned:
Organic Fiber Mockups











Lessons Learned:
Color Gun



## **Color Quality Control**

## Color measurement outputs:

- CIE L\*, a\*, b\* color values provide a full numerical descriptor of a color standard or sample.
- L\* represents lightness (White is 100. Middle Gray is 50. Black is 0.)
- a\* represents redness-greenness (Positive values are red. Negative values are green. Neutral is 0)
- b\* represents yellowness-blueness (Positive values are yellow. Negative values are blue. Neutral is 0)

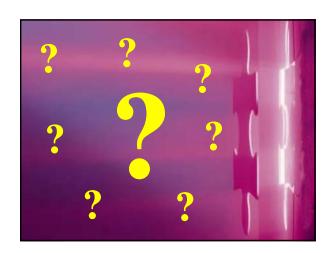






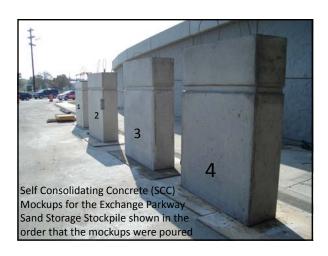




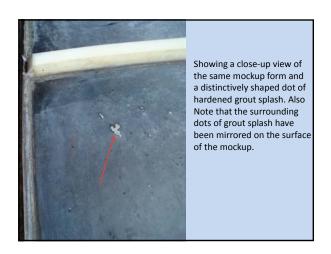


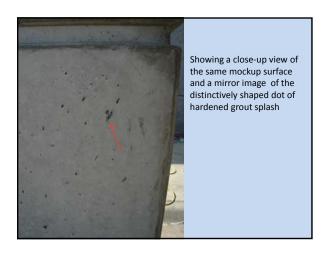














The side forms for the same mockup were also inspected. Note that James Hill is pointing to additional distinctively shaped dots of grout splash.



Showing a close-up view of the side of the same mockup surface and a mirror image of the distinctively shaped dots of hardened grout splash



Adjacent to the mockup pour at the Coit Road Bridge is the recently stripped mask wall pour. Bug holes were noted on the surface.













