



Knowledge | Experience | Solutions

BUILDING EXTERIOR SOLUTIONS

A Terracon COMPANY

PROJECT SUMMARY

The Shell Westhollow Technology Center, located at 3333 Highway 6 South in Houston, Texas, was completed in 1975. Currently there are 43 buildings housing laboratory and office space. The campus has a three phase expansion for the addition of five new buildings in conjunction with the renovation of twelve existing buildings. The building exterior wall systems consisted of brick masonry, precast concrete panels, punched and/or ribbon window systems, and storefront/curtainwall systems.

BES performed a forensic evaluation of the existing distress of the precast concrete panels and brick masonry surfaces, window systems, and roofing systems. Our evaluation determined that the majority of distress appeared to be age related. BES provided repair approaches and presented alternates to address potential budget-related concerns, related cost issues.

The repair approach selected for the precast and masonry cladding was to apply a silicone coating to the existing concrete cladding surfaces to improve the aesthetic of the existing buildings and to provide a long-term weather barrier to resist deterioration from the elements. BES worked with the design architect to select window systems which could be integrated into the existing buildings. BES coordinated the test of all sealants, coatings and window systems to ensure they met the specified performance criteria for the project. Finally BES designed modified bitumen roofing systems to replace the existing built-up roofs. For the new buildings, BES designed new cladding, window, and roofing systems to meet the Owner's requirements and maintain the campus' aesthetics. Throughout construction of the new buildings and repair to the existing buildings, BES assisted with construction administration by reviewing submittals, conduction preinstallation meetings, conducting site observations, and designing for field conditions.



SHELL WESTHOLLOW



PROJECT LOCATION

Houston, Texas

OWNER

Shell Westhollow
3333 Highway 6 South
Houston, TX 77082

CONTRACTOR

Gilbane

BES TEAM

Jerry Abendroth- Project Manager and Designer
Dale Clark – Specification Writer
Amy Peevey- Project Engineer

PRACTICE AREAS

Building Envelope Evaluation
Repair Design Services
Building Envelope Design
Brick Masonry
Architectural Precast Concrete Panels
Punched and/or Ribbon Window Systems
Contract Administration
Contract Observation

TYPE OF CONSTRUCTION

Renovation
New Construction

PROJECT SIZE

43 Buildings

COST OF CONSTRUCTION

\$250 million

SUBSTANTIAL COMPLETION

Still under construction

Building Exterior Solutions

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