## Pentagon-Wedge 3 Renovation

J efferson Davis Highway Arlington, VA

GENERAL PROJECT INFORMATION

- Type: Demolition and Renovation
- Building Purpose: Office space / US department of defense operations
- Estimated cost: $\$ 367$ million
- Contract: Design Build, fast track
- Start Date: June, 2005
- Finish Date: February 2, 2007
- LEED accredited: Silver Rating


## PRIMARY PROJECT TEAM

- Owner: PenRen—Pentagon Renovation
- General Contractor: Hensel Phelps Construction Co.
- Architect: Shalom Baranes Associates
- Mechanical and Plumbing: Southland Industries
- Electrical: M.C. Dean
- Demolition: LVI
- Carpentry: P\&P Contractors
- Masonry: Masonry ARts


## ARCHITECTURE

- Unique five sided geometry with five concentric rings
- Approximately 1 million square feet-Wedge 3
- Five stories above grade, 77 feet tall
- Each side 921 feet long
- Universal Space Plan-open environment


## STRUCTURAL SYSTEM

- Existing Building built in 1941
- CIP Concrete Columns
- CIP Concrete girders and beams-span 20' to 40'
- One-way Concrete Slabs-5" to 10" thickness
- Columns doubled at expansion joints


## LIGHTING / ELECTRICAL

- Highly efficient fluorescent lighting
- High CCT—natural light look
- Utilizes daylight for $15 \%$ energy savings
- Telecommunication closets disperse local data and communication wiring in 4 " conduit and overhead cable trays


## MECHANICAL

- Air is conditioned off site from Wedge 3
- Overhead round duct delivery / no return ducts
- Induction units


