

andrea k. klein

construction management

children's national medical center

@ 111 michigan avenue nw, washington, dc 20010



surgery expansion phase 1 project

project team

owner: Children's Hospital
project manager: KLMK Group, LLC
construction manager: Gilbane Building Company
architect: Wilmot/Sanz Inc
structural engineers: SK&A, P.A.
mep engineers: Leach Wallace Associates Inc

building stats

architect: Karlsberger Architects
size: 902,972 gsf
height: 311' - 11 stories above, 4 below
curtain wall: 1 3/4" tempered glass on steel frame
roof: tar and gravel on tapered insulation

project stats

size: 45,312 sf
project delivery method: cm@risk
construction dates: april 2007-december 2007
estimated cost: \$ 10.2 million
location within building: floors 1.5, 2, 2.5 on north side
including decontamination building

lighting/electrical

- substation is 4000 A with an 800 A automatic transfer switch to -480Y/277V 3Ø main power feed
- 2 panels removed, 3 removed and reused, 25 new panels installed
- 18 new transformers ranging from 112.5 KVA to 100 VA
- emergency generators for renovation are 1360 KW and (3) 900 KW
- all lighting fixtures are to be removed and replaced with fluorescent fixtures

structural

- structural steel in a north-south moment frame
- lightweight one-way concrete slabs on composite deck of varying thickness
- typical 6' cantilever on alternating levels for curtain wall

mechanical

- removal of all existing duct work and piping to be capped and made safe
- installation of new air devices and fixtures
- one new custom air-handling unit of 17,000 CFM max capacity