



**LeeMcCullough**  
Consulting Engineers

#### SELECTION OF COMPUTER SOFTWARE

**ORION:**

*FINITE ELEMENT REINFORCED CONCRETE DESIGN*

**WINDES:**

*SUDS & DRAINAGE DESIGN*

**PDS:**

*ROADS & 3D DEVELOPMENT DESIGN*

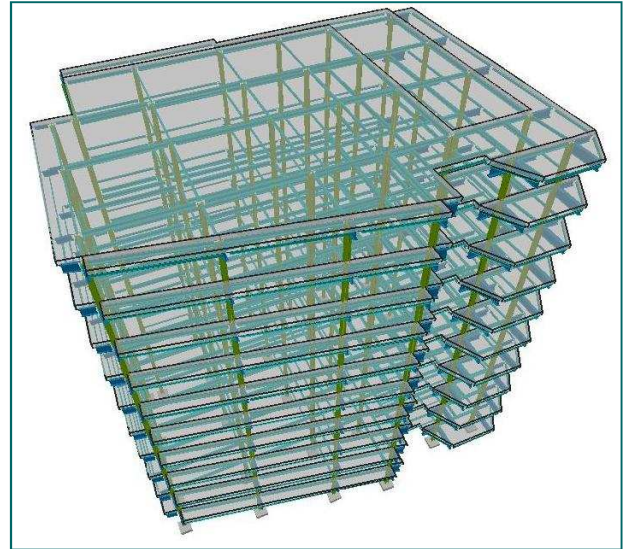
**CADS:**

*AUTOMATED STEEL REINFORCED CONCRETE & MASONRY DESIGN*

**CADS RC:**

*REINFORCED CONCRETE DETAILING*

## ADVANCED STEEL FRAME BUILDING MODELLING

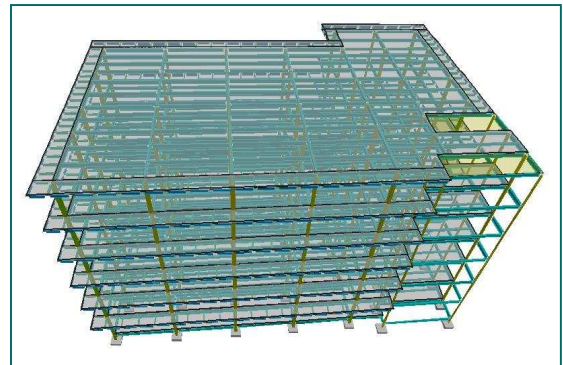


*ONE WARRINGTON PLACE - 7 STOREYS OVER DOUBLE BASEMENT*

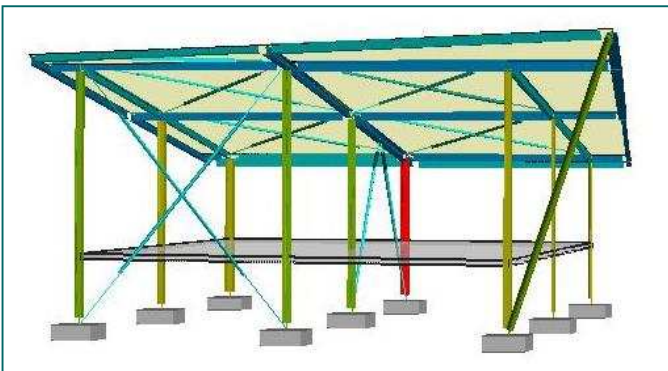
BEING ABLE TO MODEL BUILDINGS IN 3-DIMENSIONS ALLOWS US TO INVESTIGATE DESIGN ALTERNATIVES QUICKLY AND EFFICIENTLY. ONCE A FINAL DESIGN HAS BEEN AGREED, WE CAN OPTIMISE THE ENTIRE STRUCTURE TO PROVIDE THE CLIENT WITH THE MOST COST EFFECTIVE STRUCTURAL SOLUTION.

INCREASED QUALITY CONTROL IN LINE WITH OUR ISO 9001 SYSTEM IS PROVIDED AS THE MODEL CAN BE PASSED FLOOR BY FLOOR OR SECTION BY SECTION DIRECTLY INTO AUTOCAD TO GENERATE GENERAL ARRANGEMENT DRAWINGS. 3-DIMENSIONAL VIEWS OF THE STRUCTURE FROM ANY ANGLE CAN ALSO BE PRODUCED TO HELP VISUALISE THE IMPACT OF THE STRUCTURE ON THE ARCHITECTURAL CONCEPT.

FOR THE QUANTITY SURVEYOR WE CAN ALSO PRODUCE FULL TAKE-OFF LISTS INCLUDING STEEL AND CONCRETE MATERIAL AND FLOOR AREAS IF REQUIRED.



*PROPOSED OFFICE DEVELOPMENT AT LAD LANE DUBLIN*



AT LEEMcCULLOUGH WE HAVE A COMPREHENSIVE RANGE OF THE LATEST ENGINEERING SOFTWARE INCLUDING MULTI STOREY CONCRETE AND STEEL FRAMED ANALYSIS, AUTOMATED REINFORCED CONCRETE SCHEDULING, 3-DIMENSIONAL SITE MODELLING, COMPLEX DRAINAGE ANALYSIS, ETC. WE WILL USE THESE TOOLS TO CONVERT A PROJECT FROM ARCHITECTURAL CONCEPT INTO A COST EFFECTIVE STRUCTURAL REALITY.

FOR SEVERAL YEARS WE HAVE BEEN UTILISING FASTRAK BUILDING DESIGNER FOR THE DESIGN OF STRUCTURAL STEEL FRAMES. THIS SOFTWARE ALLOWS US TO CREATE A 3-DIMENSIONAL MODEL OF YOUR BUILDING, WHETHER IT BE SINGLE OR MANY STOREYS HIGH. THIS ALLOWS COMPLEX ARCHITECTURAL LAYOUT TO BE EASILY DESIGNED.

#### ENGINEERING NEW BUILDINGS

FOR MORE THAN 30 YEARS, WE AT LEEMcCULLOUGH HAVE BEEN PROVIDING STRUCTURAL AND CIVIL ENGINEERING SERVICES FOR NEW BUILDINGS IN THE COMMERCIAL, EDUCATION, LEISURE, RETAIL, AND RESIDENTIAL SECTORS.

**KEY ASPECTS OF OUR SERVICES ARE:**

- KEEPING UP TO DATE WITH THE LATEST SOFTWARE
- AN OPEN, COLLABORATIVE PHILOSOPHY PROVIDING ENGINEERING DESIGN SOLUTIONS THAT ARE APPROPRIATE FOR THE SPECIFIC PROJECT, WILL SUPPORT ARCHITECTURAL CREATIVITY AND ARE COST-EFFECTIVE IN DELIVERY.
- A CLOSE WORKING RELATIONSHIP WITH ALL PARTIES INVOLVED; EFFECTIVE TEAM PARTICIPATION; AND KNOWLEDGEABLE AND EXPERIENCED INTEGRATION WITH OTHER SERVICE PROVIDERS.
- A PROFESSIONAL COMMITMENT TO OUR CLIENT'S PROJECTS; DELIVERING A FLEXIBLE AND QUALITY SERVICE, COST EFFICIENT AND ON TIME.

AT LEEMcCULLOUGH WE PROVIDE SENIOR, EXPERIENCED PERSONNEL SUPPORTED BY THE REQUIRED RESOURCES, TO LEAD OUR INVOLVEMENT IN YOUR PROJECT, DEMONSTRATION OF OUR COMMITMENT TO PROVIDE EXCELLENT CLIENT SERVICE AND QUALITY/INNOVATIVE, DESIGN SOLUTIONS.