"BOOKS ARE TO PEOPLE AS WINGS ARE TO BIRDS"

JOHN RUSKIN

GENERAL LAYOUT PLAN. 1:750

1  New National Library. 2010
2  Proposed Extension for 2050
3  Marble Platform
4  Pedestrian access from Park
5  Pedestrian access from Street
6  Recessed Water Pools
7  Loading Bay
8  Parking Entrance
9  Parking Exit
10  Tunnel

SITE LOCATION

1  New National Library
2  St Vitus Cathedral
3  Government Building
4  Hanavsky Pavilion
5  Monument Base
6  Queen Anne's Pavilion
7  Kramar Villa
8  St Nicolas Church
9  Old Town Square
10  Rudolfi Concert Hall
11  Klementinum Building
12  Football Stadium
13  Charles Bridge

SITE SECTION

View from Petrin Tower

AXONOMETRIC SECTION

EXPLODED VIEW

STREET
“I ALWAYS VISUALISE PARADISE AS A LIBRARY NEVER AS A GARDEN”

JORGE LUIS BORGES
"IN A WELL SELECTED LIBRARY WE ARE LIKE IN ETERNITY"

T. G. MASARYK

LEVEL 0  (+0.0m)  1:250

09  Loading Bay
10  Security
11  Ofﬁce / Reception / Post
12  Staff Area
13  Universal Maintenance Workshop
14  Storage and Material Acquisition / Handling and Storage
15  Plant Chemicals
16  Cleaning Storage
17  Waste Management
18  Handling Area
19  Book Counter
20  Car Park
21  Outdoor Lift

LEVEL -1  (-11.5m)  1:250

01  Automatic Book Storage
02  Panoramic Opening
03  Book Lifts
04  Handling Area
05  Nitrogen Gas Storage
06  Technical Storage
07  Future Extension
08  Storage access. Lift and stairs

2010

20 MILLION VOLUMES

2050

+4 MILLION VOLUMES

2008 2010 115 WEEKS

1 - SUB-STRUCTURE
2 - PODIUM + COLUMNS
3 - SUPER-STRUCTURE
4 - RING BEAM AND TENSION CABLES
5 - CLADDING
6 - GLAZING + INTERNALS & EXTERNALS

LIGHT DWELL

LIGHT PENETRATION

Total

Cooling

Heating

Lighting

15 % Glazing in Roof

% Carbon

kg/m2

Annual Carbon Emissions

50

40

30

20

10

0

DATE

DETAIL SECTION BASEMENT  1:75

GROUND FLOOR SURFACE PROTECTION

01  Car park surfacing and drainage networks
tackle surface run-off
02  Pre-cast concrete slabs ~300mm prevent seepage from surfacing
03  Drainage services
04  Access panels

LEAKAGE DEFENCE

05  Water-resisting membrane and vapour barrier
06  Drainage channels discharging to sump and pump
07  Concrete slab ~ 400mm

FLOOR DEFENCE

08  Drainage blanket 250mm thick
09  Concrete raft slab 1200mm thick
10  Drainage tiles discharges to sump and pump
11  Water-resisting membrane and vapour barrier
12  Blinding
13  Screed
14  R.C. Column
15  Shelving system
16  Robot crane
17  Mechanical ventilation unit to remove water vapour

WALL DEFENCE

18  Access corridors for repair of drainage channels ~ 800mm wide
19  Diaphragm wall ~ 1200mm thick
20  R.C. buttresses @ 10 m centres
21  Whaling beams
22  R.C. lining wall ~ 300mm thick
23  Drained cavity 2500mm wide
24  Channels laid to fall 1-100mm min. with pipe at valley points. Discharges to sump and pump
25  Water-resisting membrane and vapour barrier
26  Shear links at constr. joints
27  Hydrophilic strip at constr. joints
28  Engineering bricks with open joints at intervals
29  Blockwork walls

THE NEW NATIONAL LIBRARY OF THE CZECH REPUBLIC
• Place for Third Millennium
• Democratic Architecture in a Democratic State
• Key Words as Beauty, Elegance, Colour, Plasticity, People and Books

• Views as Part of Urban Composition
• Colour Composition as Reference to the Past and Future
• The 'Street' as Link Between Outside and Inside

• Books from Storage Reach Reader in Less Than 5 Minutes
• Books Are Placed Back to Original Position in Storage
• Storage for 10 Million Volumes with 4 Million Extended Capacity

• Maximum Flexibility in the Internal Building Layout
• Comfort of Soft Furniture Throughout the Building
• Unique Internal Planning Reduces Floor Area by 30%