TYPOLOGY
MEDIATHÈQUE FOR THE CITIZENS OF GRAND FORKS AND EAST GRAND FORKS

PROBLEM STATEMENT
HOW HAVE THE COMPUTING TECHNOLOGY AND SOCIAL MEDIA CHANGED THE WAY WE ENVISAGE THE BUILT ENVIRONMENT?

THEORETICAL PREMISE
BECAUSE OUR CULTURE IS EXPLODING WITH TECHNOLOGICAL ADVANCEMENT AND SOCIAL MEDIA IS SO WIDELY PREVALENT, THE CHARACTER OF DESIGN NEEDS TO REFLECT THE CHARACTER OF TODAY'S SOCIETY.

JUSTIFICATION
AS SOCIETY EMBRACES CHANGES IN COMPUTING TECHNOLOGY AND THE ACCESS TO SOCIAL MEDIA, IT MUST ALSO ALLOW A CHANGE OF CHARACTER IN THE BUILT ENVIRONMENT.

SOCIAL ADAPTATION
CHANGING THE BUILT ENVIRONMENT

FROM STREET CORNER
4TH STREET SECTION
4TH STREET ELEVATION
DEMERS AVE SECTION
DEMERS AVE ELEVATION

60'-0" LOW ROOF
45'-0" LEVEL 04
30'-0" LEVEL 03
15'-0" LEVEL 02
0'-0" LEVEL 01

65'-0" TOP ROOF
-14'-0" LOWER LEVEL

60'-0" LOW ROOF
45'-0" LEVEL 04
30'-0" LEVEL 03
15'-0" LEVEL 02
0'-0" LEVEL 01

65'-0" TOP ROOF
-14'-0" LOWER LEVEL
PAN JOIST FLOOR SYSTEM
CONCRETE ONE-WAY SYSTEM WITH CUSTOM FORMS
CORRELATING WITH DIRTT WALL SYSTEM

DIRTT ENVIRONMENTAL SOLUTIONS © WALL SYSTEM
PREFABRICATED TECHNOLOGY WITH COMFORT AND
FUNCTION OF THE 21ST CENTURY ABLE TO ADAPT TO
ANY CLIENT’S NEEDS

EXTERIOR GLAZING
FLOOR-TO-CEILING PANES OF PILKINGTON SOLAR-E™
PLUS BACKED BY ASHLER SPIDER CONNECTIONS

SOLAR PANEL FAÇADE
A MIX OF CUSTOM ALUMINUM PANELS WITH
LOUVERS AND PHOTOVOLTAIC SOLAR PANELS

SUSTAINABLE METAL ROOF
STANDING SEAM COOLING METAL ROOF WITH LOW
EMITTANCE TO SAVE ON ENERGY COSTS

SKYLIGHT
LARGE NATURAL LIGHT WASHES IN AND BOUNCES
THROUGH ATRIUM UNTIL REACHING ENTRY LEVEL

FAÇADE PANELS
ZINC PANELS WRAP UPPER PORTION AND ENTRIES
WHILE WHITE ALUMINUM PANELS COVER FIRST LEVEL

PAN JOINT FLOOR SYSTEM
CONCRETE ONE-WAY SYSTEM WITH CUSTOM FORMS
CORRELATING WITH DIRTT WALL SYSTEM

DIE CAST SITE-CASTED CONCRETE STRUCTURE WITH
FLOOR-TO-CEILING GLAZING

SKYWAY TO PARKING GARAGE
CUSTOM SITE-CASTED CONCRETE STRUCTURE WITH
FLOOR-TO-CEILING GLAZING

SUN SHADE PARTITIONS
ORIENTED ON SOUTHWEST FAÇADE, PARTITIONS RUN
ALONG A TRACK AND ARE COMPLETELY USER-OPERATED
FOR PERSONAL COMFORT

ATRIUM & CIRCULATION
CONCRETE ATRIUM DESIGNED FOR A STRUCTURAL
CONNECTION AND SOCIAL CIRCULATION

EXHAUST
STACKED VENTILATION RELEASED OUT ROOF THROUGH
ALUMINUM LOUVERED PANELS

INTAKE FANS
AIR INTAKE THROUGH CUSTOM LOUVERED PANELS
A PART OF A CENTRAL AIR CONSTANT AIR VOLUME

DEPARTMENT OF ARCHITECTURE AND LANDSCAPE ARCHITECTURE,
ARCH 772, DESIGN THESIS, SPRING 2013

LUKE SCHNEIDER
MARK BARNHOUSE, AIA
REVIT, 3DS MAX, SKETCHUP, MAXWELL, PHOTOSHOP, ILLUSTRATOR, INDESIGN

LUKE SCHNEIDER
RESEACH ASSISTANT, NDSU
MEDIATHEQUE, 32,250 SQ.FT.
SOCIAL ADAPTATION, 750 SEAT CAPACITY, 5,000 SQ.FT.

ARCH 772, DESIGN THESIS, SPRING 2013

SOCIAL ADAPTATION, MEDICAL FACILITIES, 1,250 SQ.FT.
MARK BARNHOUSE, AIA

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MULTI-PURPOSE CONFERENCE ROOM USING A MUTAFLEX SYSTEM THAT MOVES ENTIRE ROWS OF SEATS ALONG RAILS INTEGRATED INTO THE FLOOR.
SITE IS IN THE DOWNTOWN DISTRICT OF GRAND FORKS AND AT THE CENTER OF ITS HISTORIC CULTURE.
LOCATED ADJACENT TO THE CITY TRANSIT STATION.

CITY URBAN GREENWAY EXTENDS THROUGH DOWNTOWN AND UP TO SITE.

INTERACTIVE GALLERY
SITE PLAN 45°

INTERACTIVE GALLERY
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