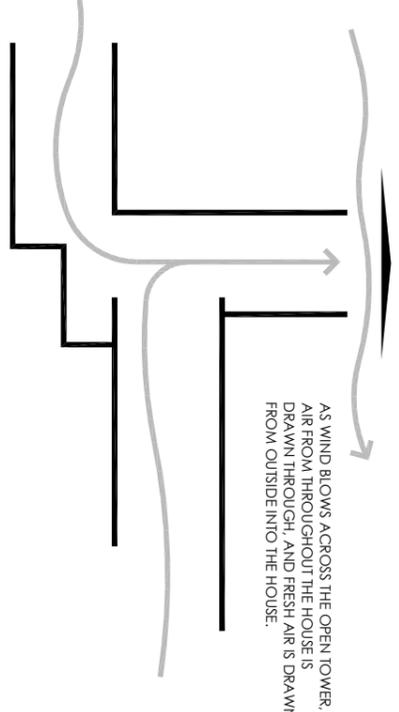
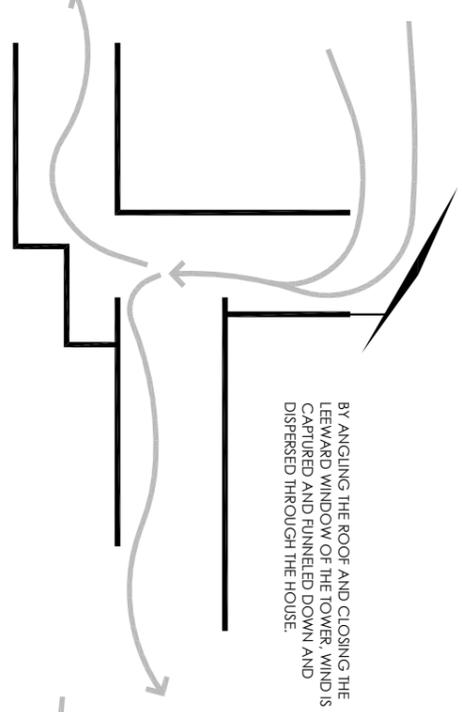


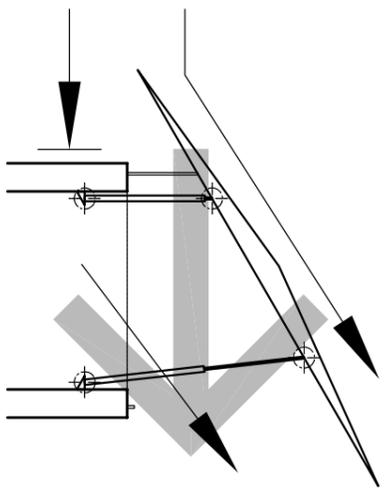
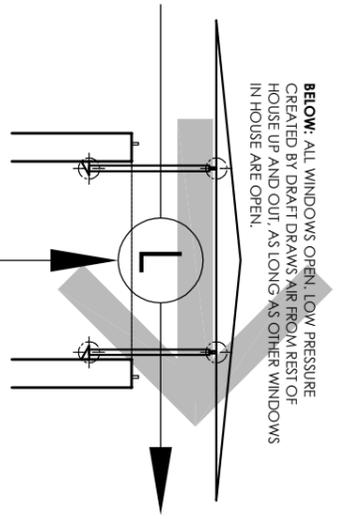
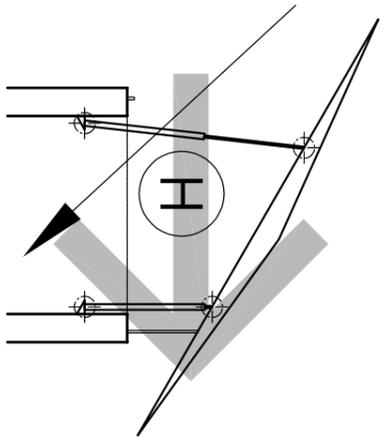
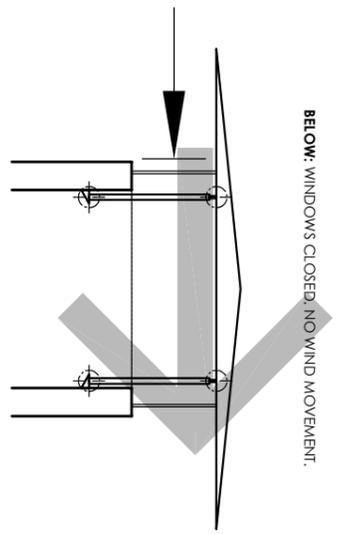
01 STACK EFFECT VENTILATION
E-2.0 SCALE: N/A



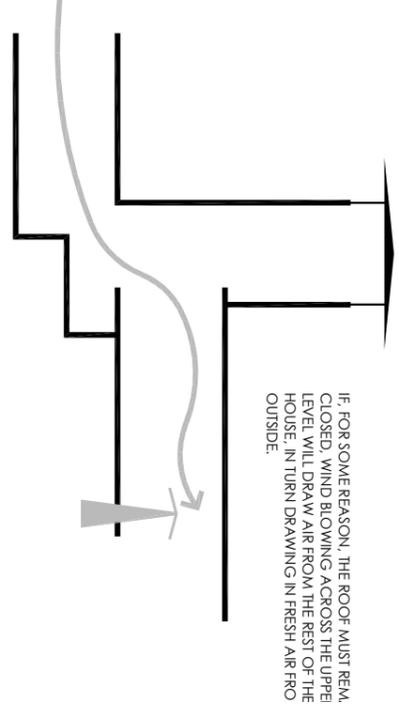
02 WIND-DRIVEN VENTILATION
E-2.0 SCALE: N/A



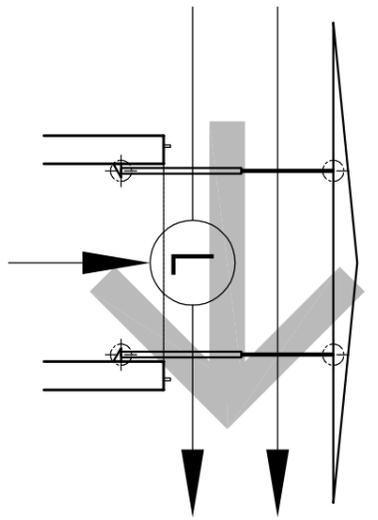
03 INVERSE WIND-DRIVEN VENTILATION
E-2.0 SCALE: N/A



L LOW PRESSURE
H HIGH PRESSURE



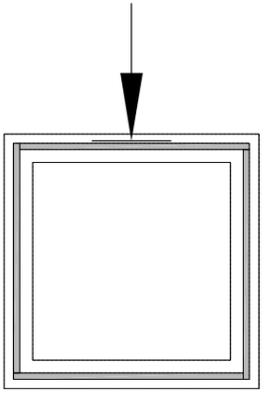
04 TOWER-LESS WIND-DRIVEN VENTILATION
E-2.0 SCALE: N/A



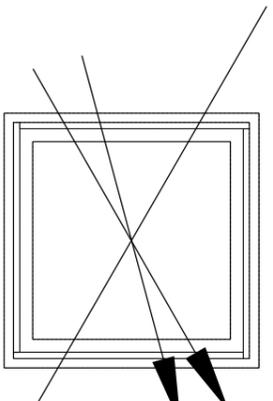
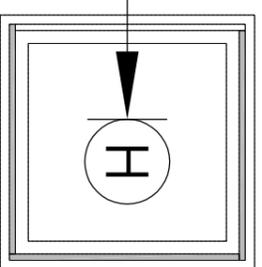
ABOVE: ALL WINDOWS OPEN AND ROOF FULLY RAISED, EXTREME LOW PRESSURE CREATED BY EVEN A LIGHT BREEZE DRAWS AIR FROM REST OF HOUSE UP AND OUT, AS LONG AS OTHER WINDOWS IN HOUSE ARE OPEN.

GENERAL NOTE: DIAGRAMS PRESENTED HERE CAN BE UNDERSTOOD TO REPRESENT THE WIND TOWER FROM ANY SIDE VIEW (NORTH, EAST, SOUTH, OR WEST). WIND DIRECTION IS ALWAYS SHOWN FLOWING FROM LEFT TO RIGHT, AS INDICATED BY LARGE GREY ARROWS.

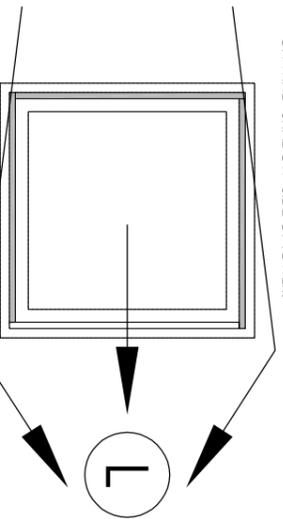
01 VENTILATION STRATEGIES
E-2.0 SCALE: 1/100 SIDE VIEW @ WIND TOWER



ABOVE: ALL WINDOWS CLOSED, NO WIND ENTERS OR EXITS THE TOWER.
BELOW: ONE WINDOW OPEN, THREE CLOSED, IF OTHER WINDOWS IN THE HOUSE ARE OPEN, WIND WILL BE FORCED DOWN THROUGH TOWER, AND VENTILATE THROUGHOUT THE HOUSE.



ABOVE: ALL WINDOWS OPEN, WIND CAN PASS THROUGH FROM ANY DIRECTION.
BELOW: ONE WINDOW OPEN, THREE CLOSED, IF OTHER WINDOWS IN THE HOUSE ARE OPEN, WIND WILL BE DRAWN OUT VIA LOW PRESSURE CREATED ON WIND "SHADOW" SIDE OF TOWER.



02 VENTILATION STRATEGIES
E-2.0 SCALE: 1/100 PLAN VIEW @ WIND TOWER

VI
GROUP 6

COURSE: TECHNOLOGICAL DESIGN

SCHOOL: POLITECNICO DI MILANO

SEMESTER: SPRING 2011

INSTRUCTORS: G. MASERA, O. PAGANI

TUTORS: M. BRASCA, M. SAUCHELLI

ISSUE DATES: 1. 08.05.2011 - GROUP REVIEW, 2. 31.05.2011 - MATTEO REVIEW

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2. 31.05.2011 - MATTEO REVIEW
3. ---
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5. ---
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7. ---
8. ---

SHEET AUTHOR(S): CHRIS HARRISON
PROJECT: ENVIRONMENTAL HOME
LECCO, LOMBARDIA ITALIA

SHEET TITLE: WIND TOWER & VENTILATION DIAGRAMS

SHEET NO.: E-2.0
FILE NAME: S-1.0_recover.dwg