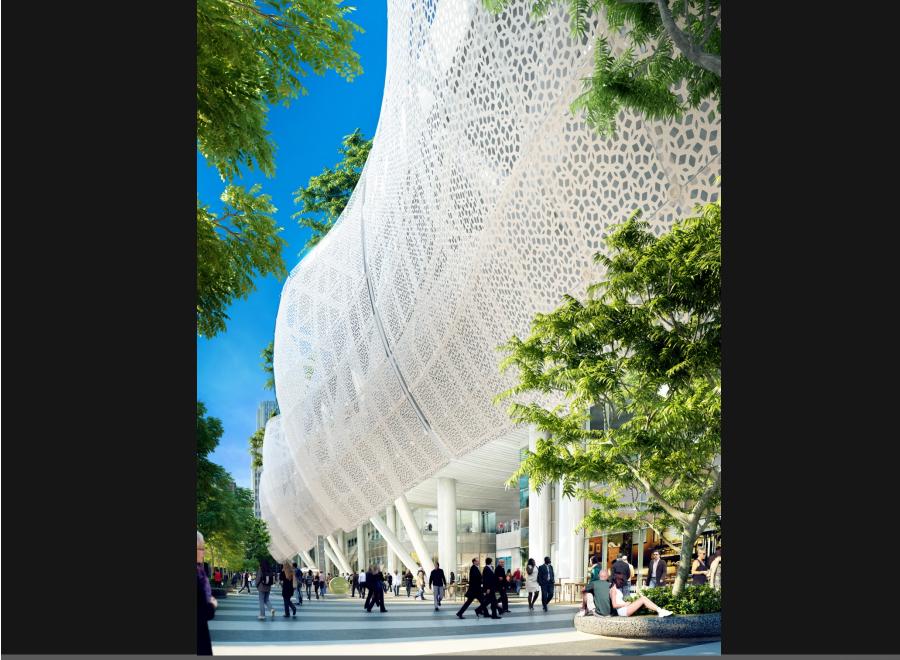
TJPA BOARD DESIGN PRESENTATION Architectural Update – Metal Panel Awning

1 JULY 2013 Pelli Clarke Pelli Architects



- AWNING GEOMETRY
- PATTERN
- PATTERN DENSITY
- MATERIAL
- MAINTENANCE
- FIRE AND LIFE SAFETY
- INTERIOR VIEWS
- LIGHTING
- COST



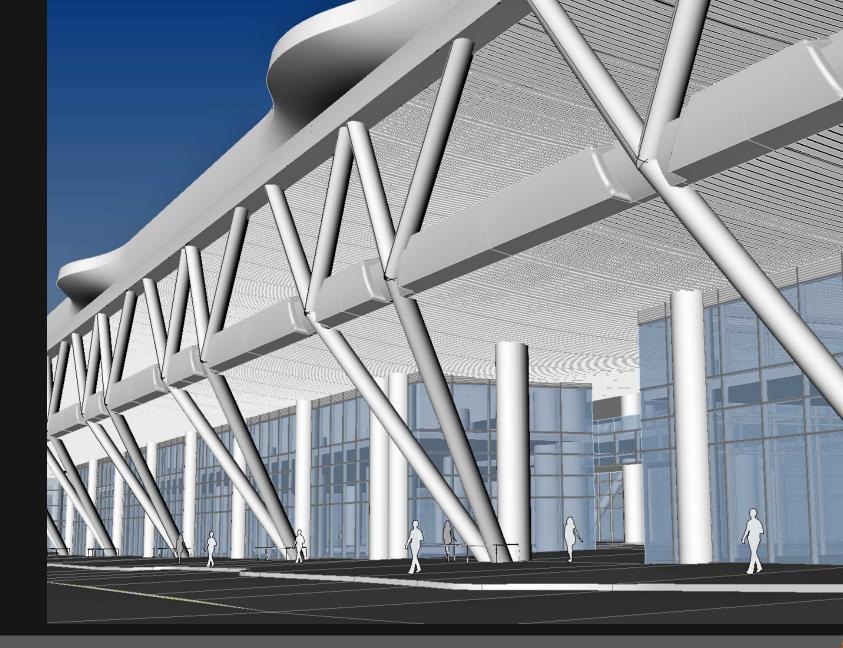


NATOMA STREET VIEW – METAL AWNING



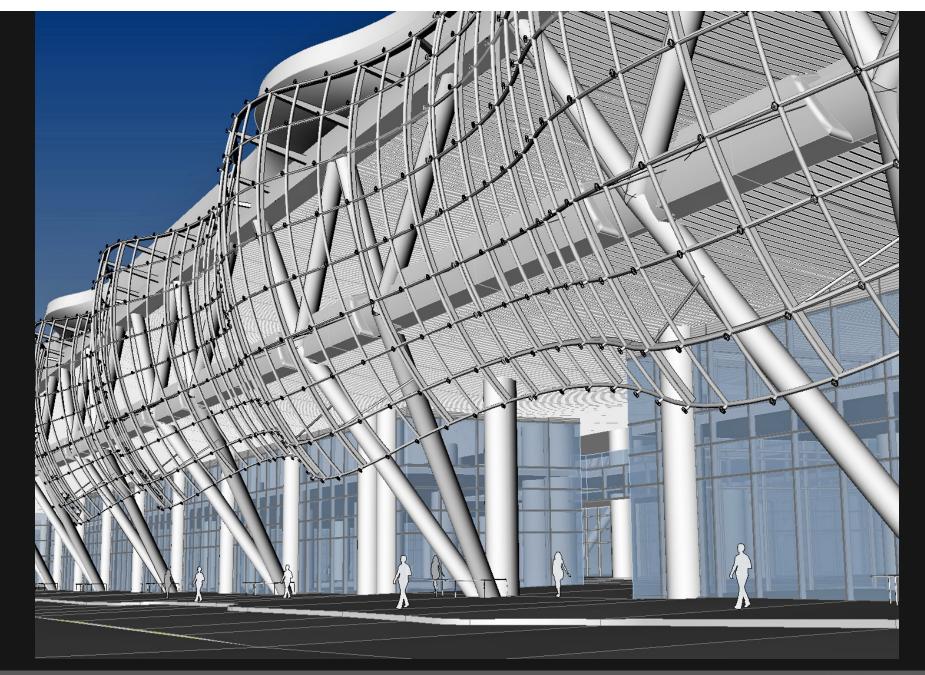
AWNING GEOMETRY





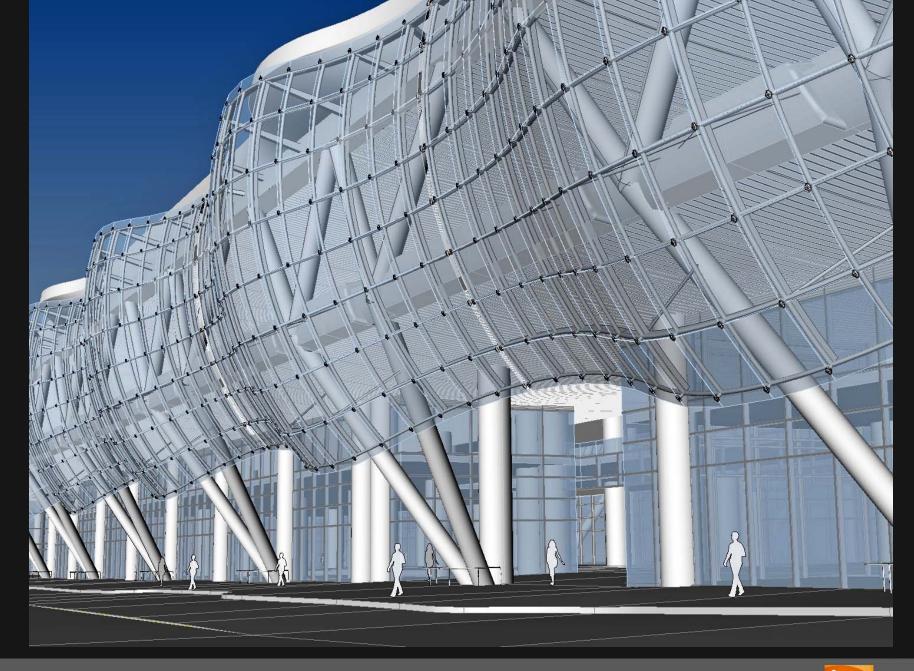
SUPERSTRUCTURE





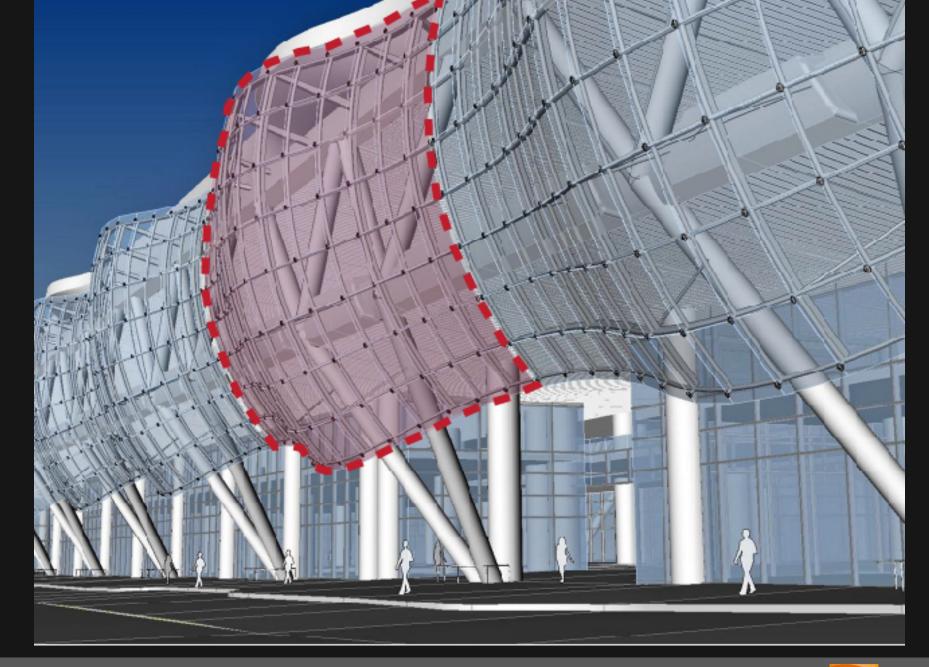
AWNING SUBSTRUCTURE





AWNING PANELS



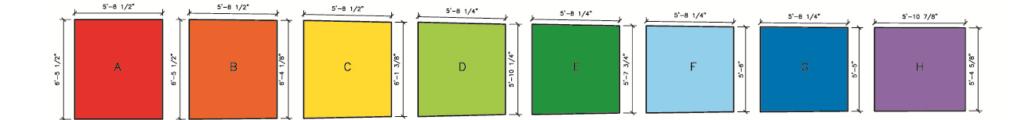


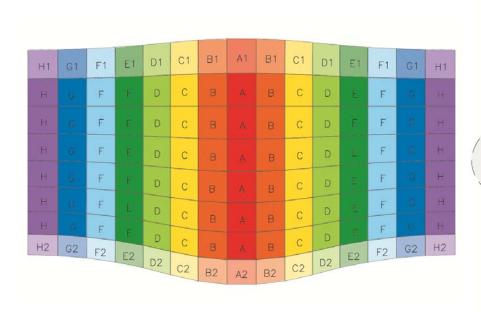
AWNING PANELS

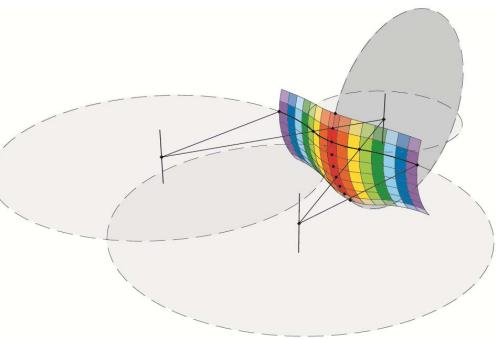


PANELIZATION



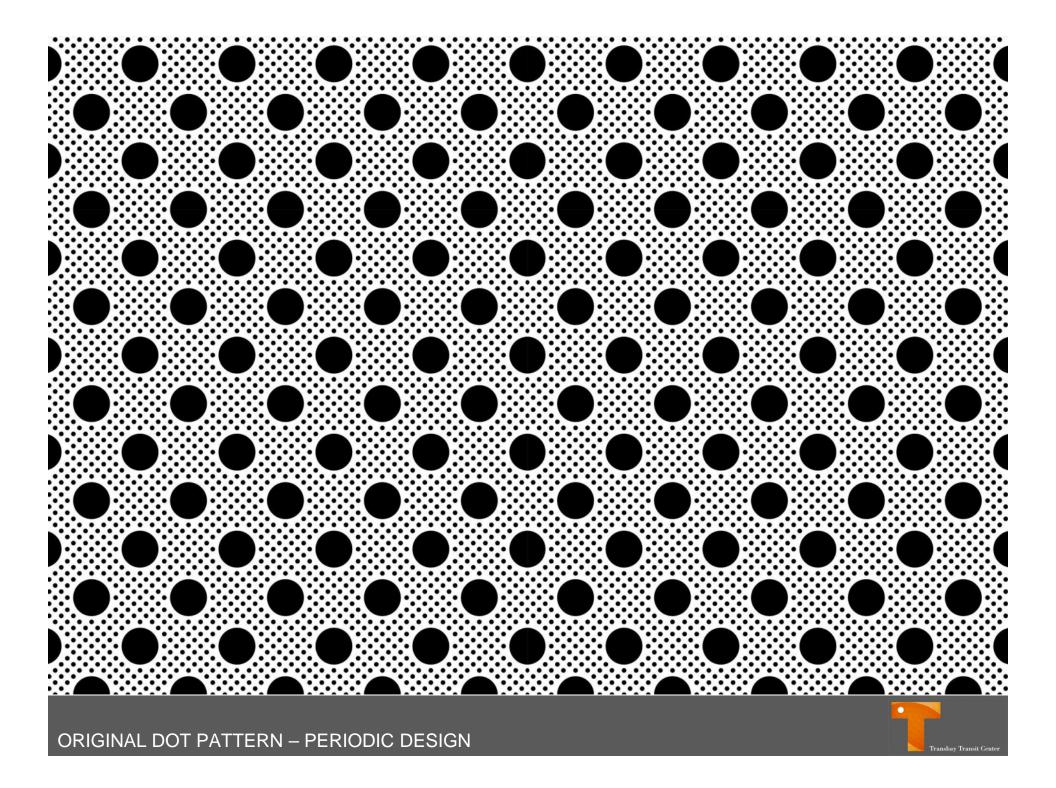


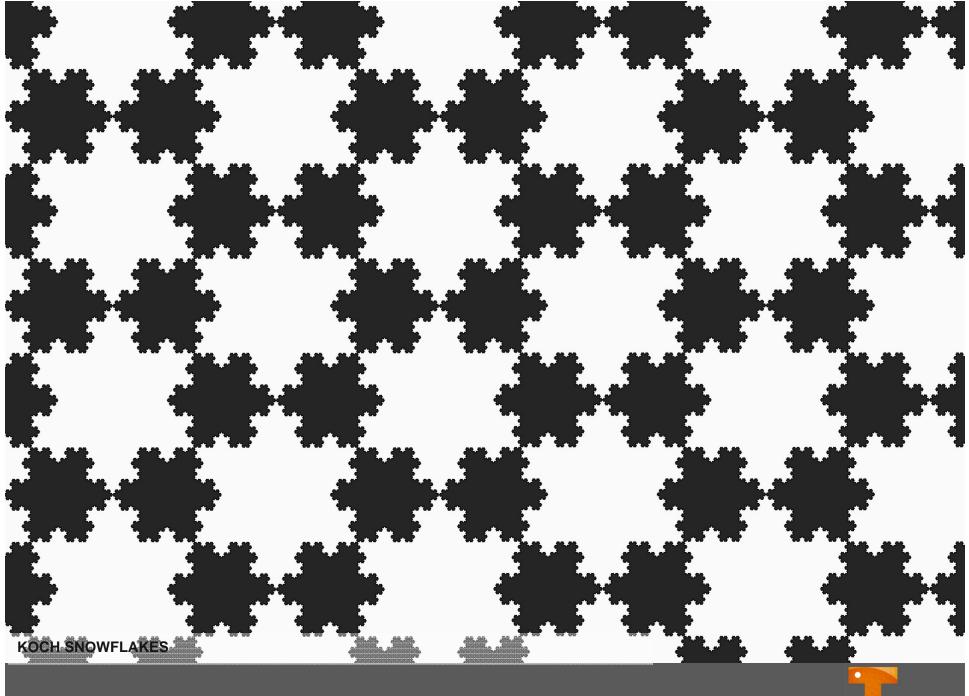




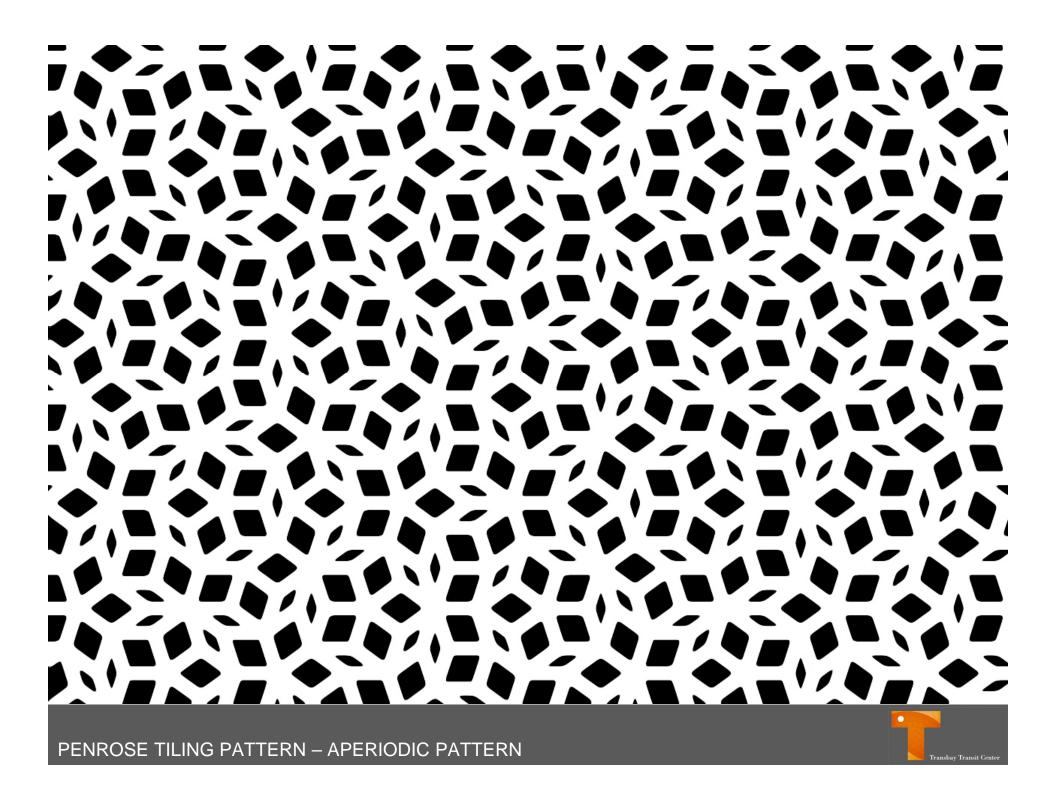
PATTERN

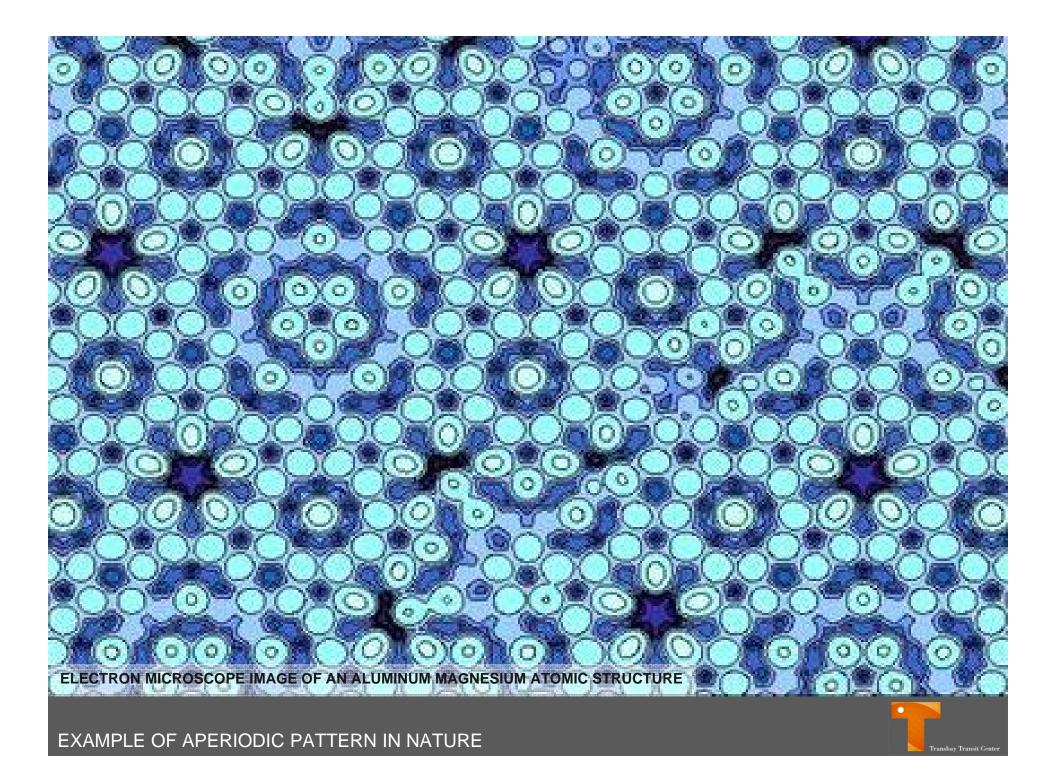


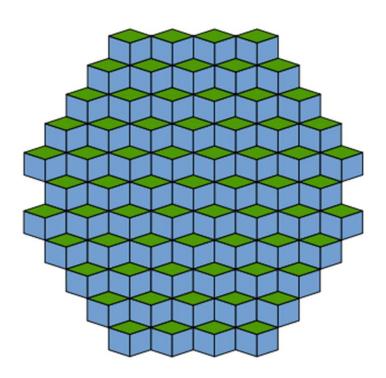


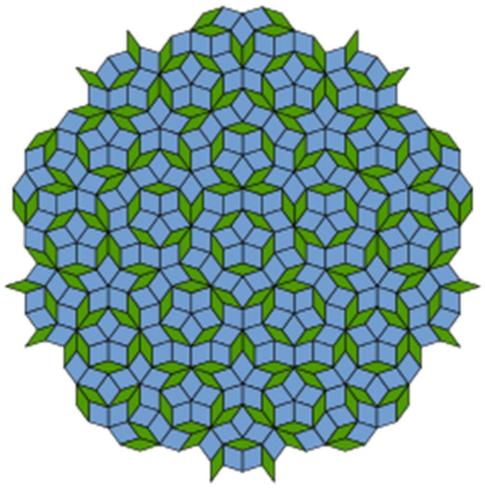


EXAMPLE OF PERIODIC PATTERN







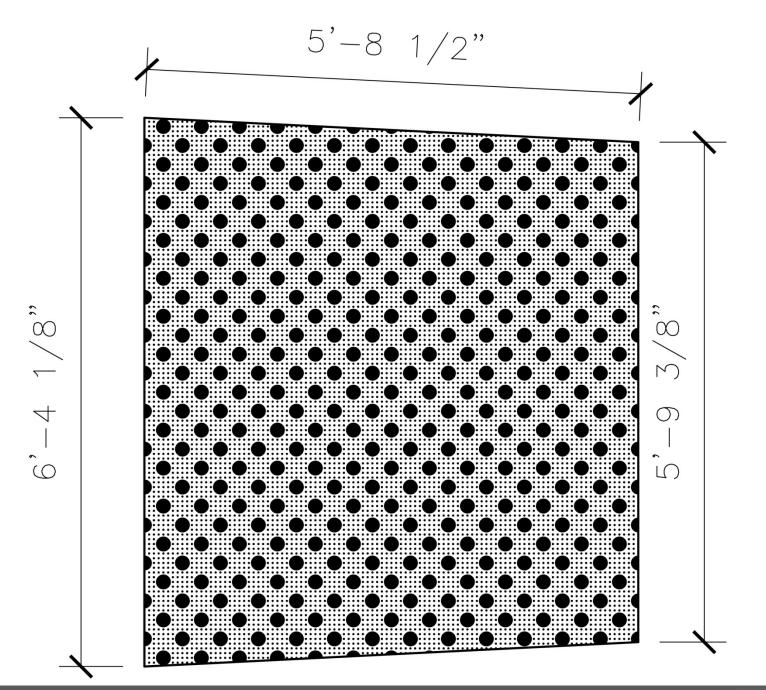


PERIODIC

APERIODIC

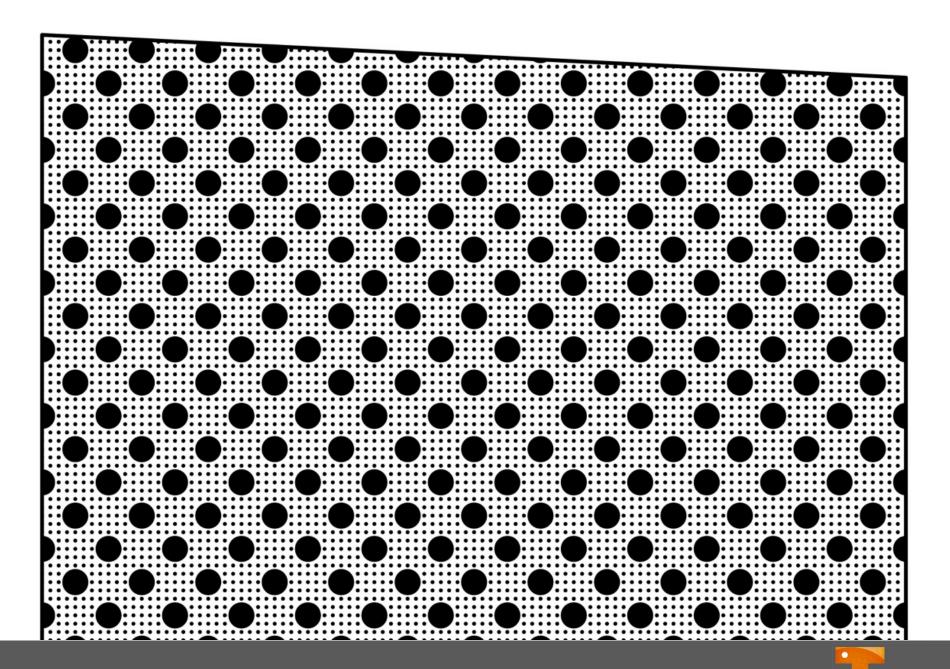


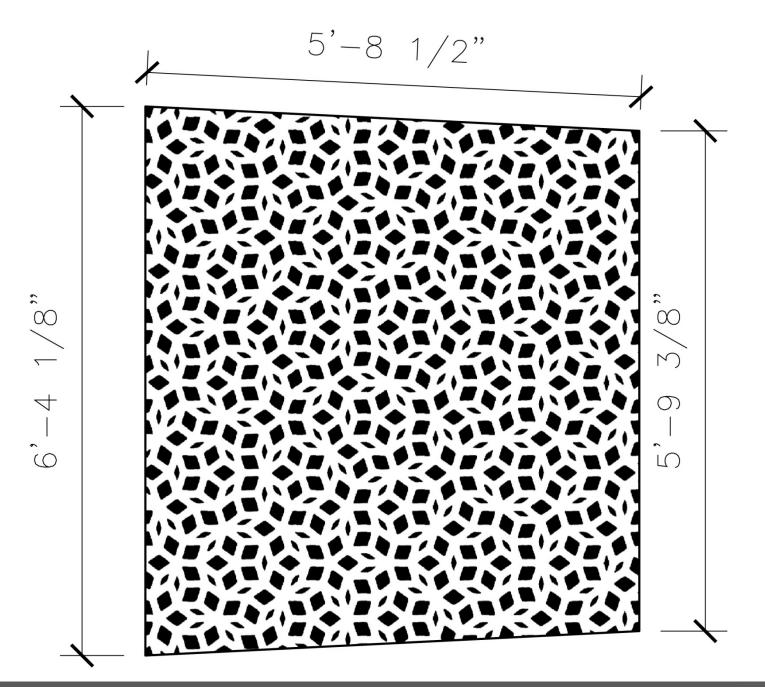


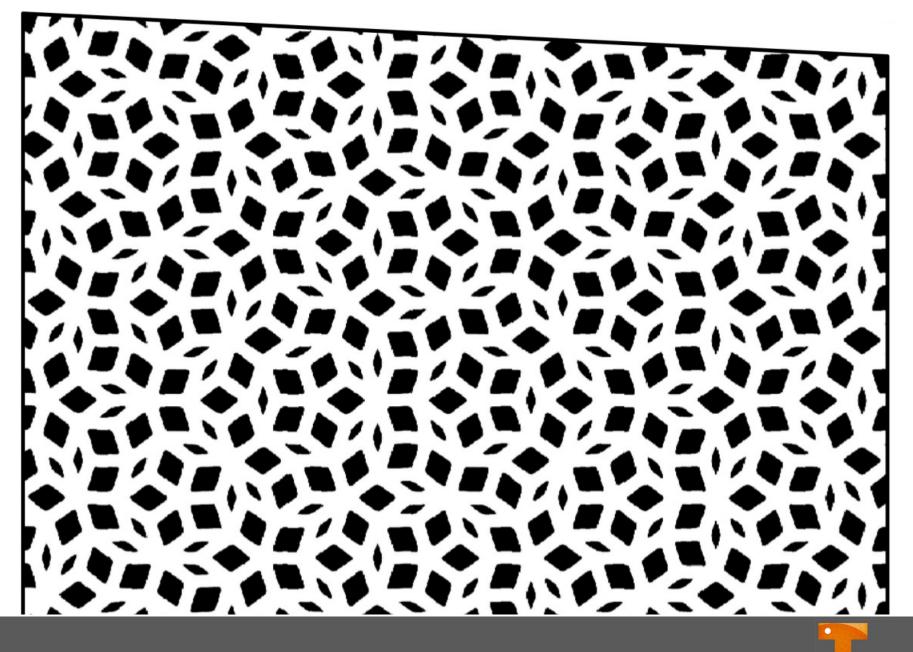


TRAPEZOIDAL PANEL WITH PERIODIC PATTERN

Transbay Transit Center

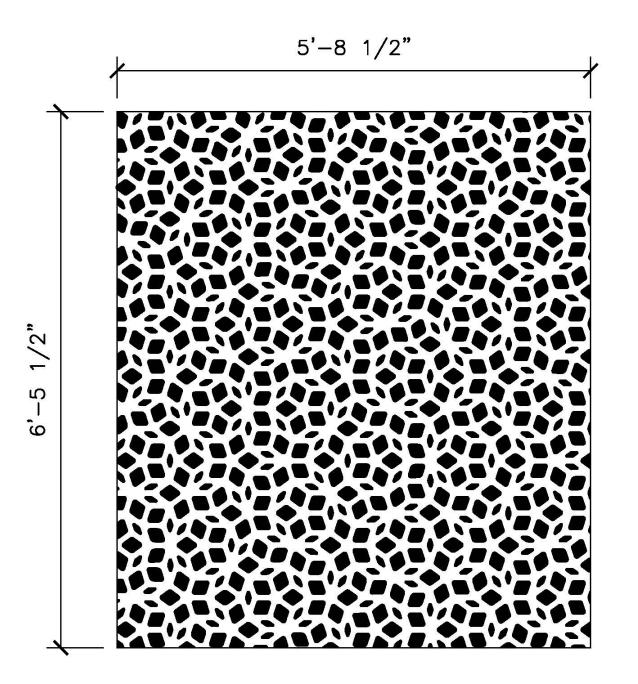






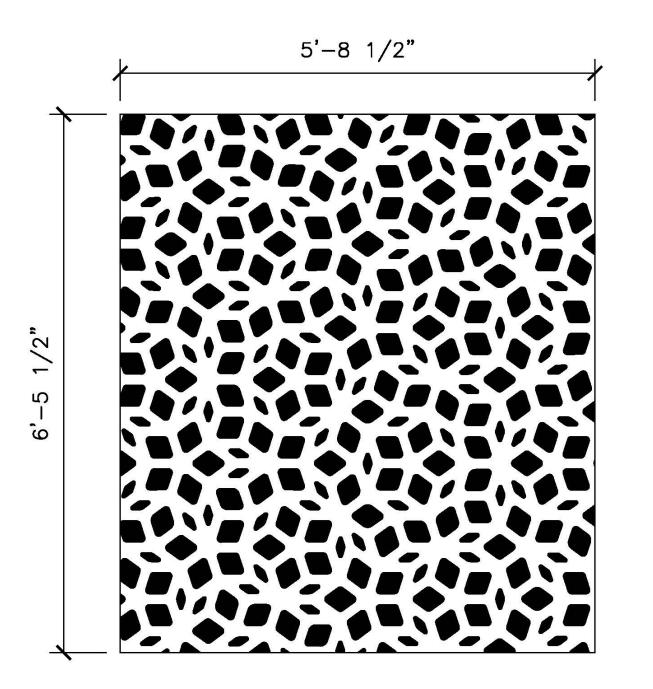
PATTERN DENSITY





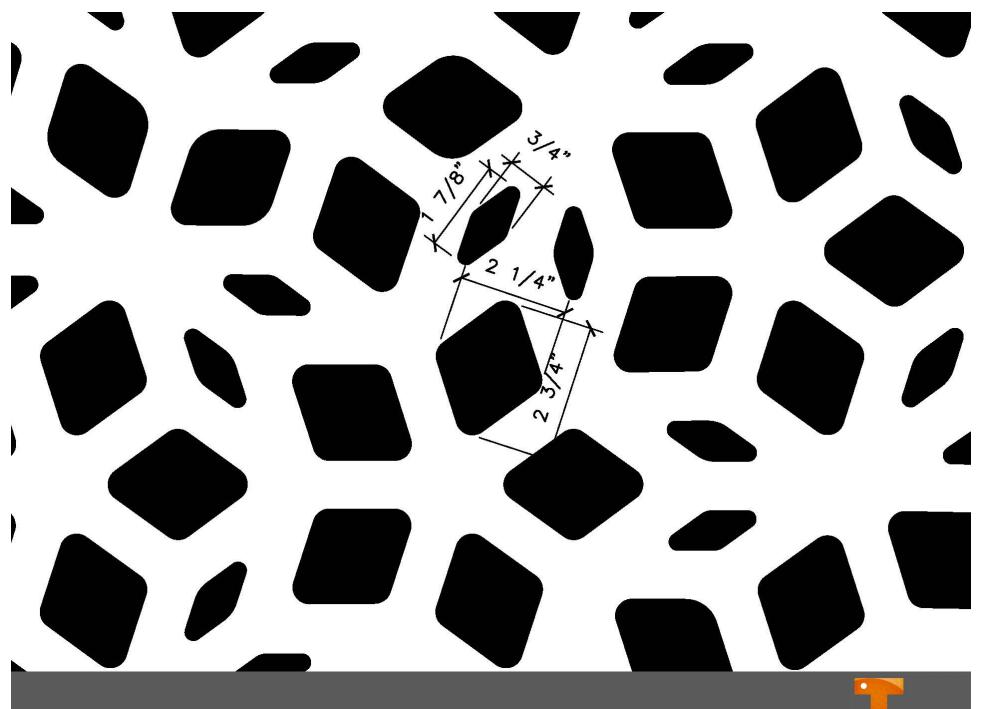


PANEL TYPE A – PREVIOUS PERFORATION SCALE



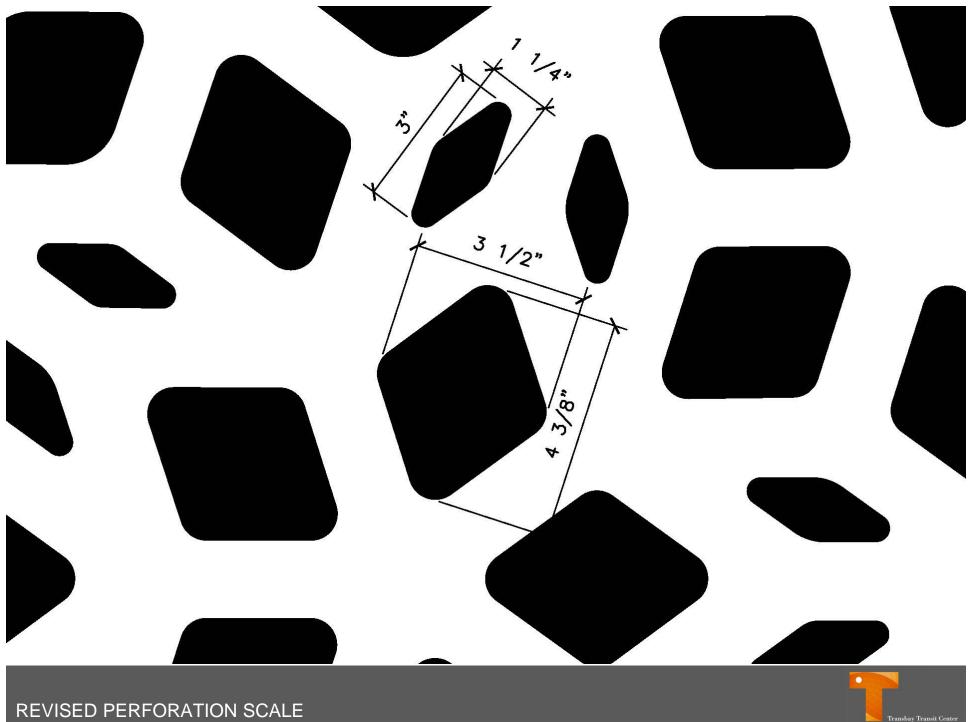


PANEL TYPE A – REVISED PERFORATION SCALE



PREVIOUS PERFORATION SCALE

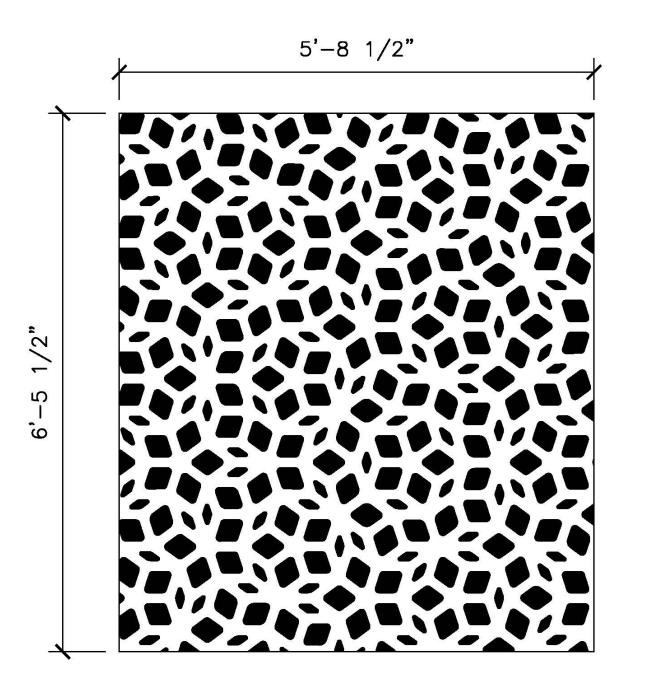
Transbay Transit Center



PATTERN SCALE STUDY AT PCPA NEW HAVEN





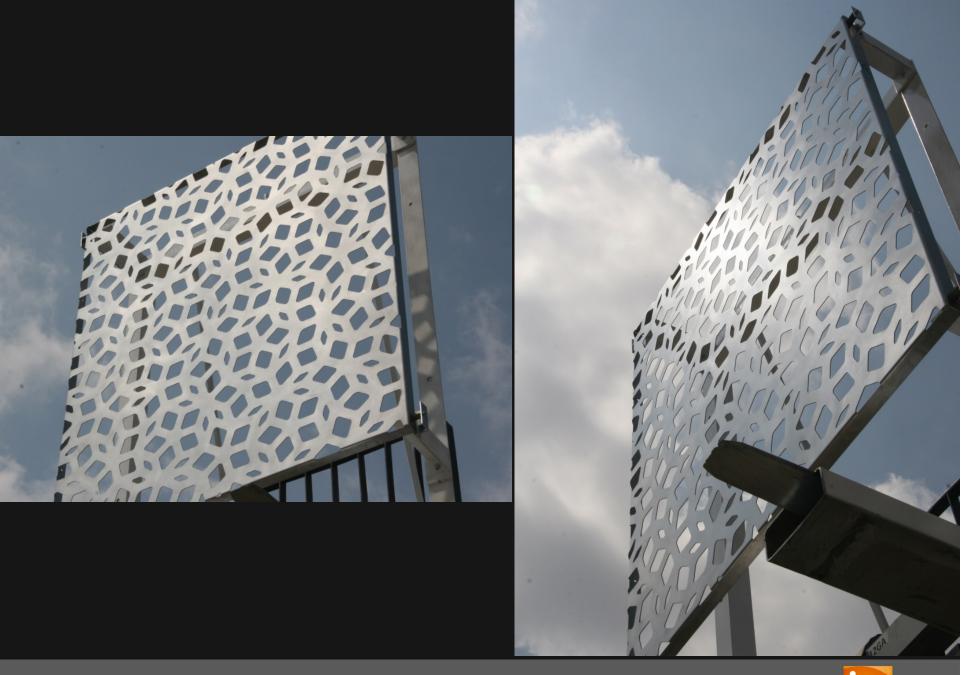




PATTERN

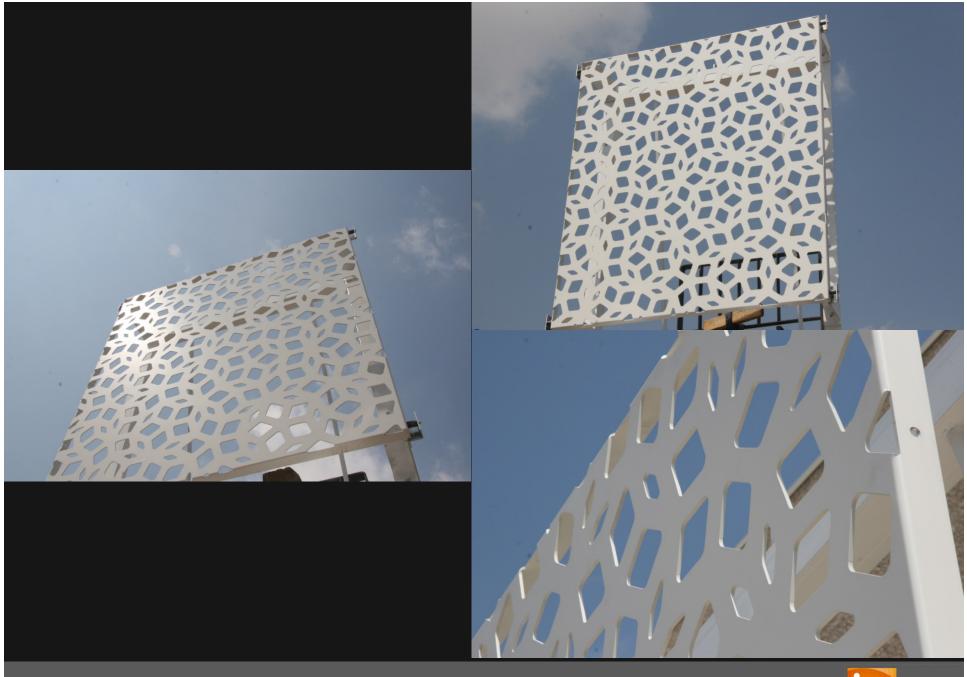
MATERIAL





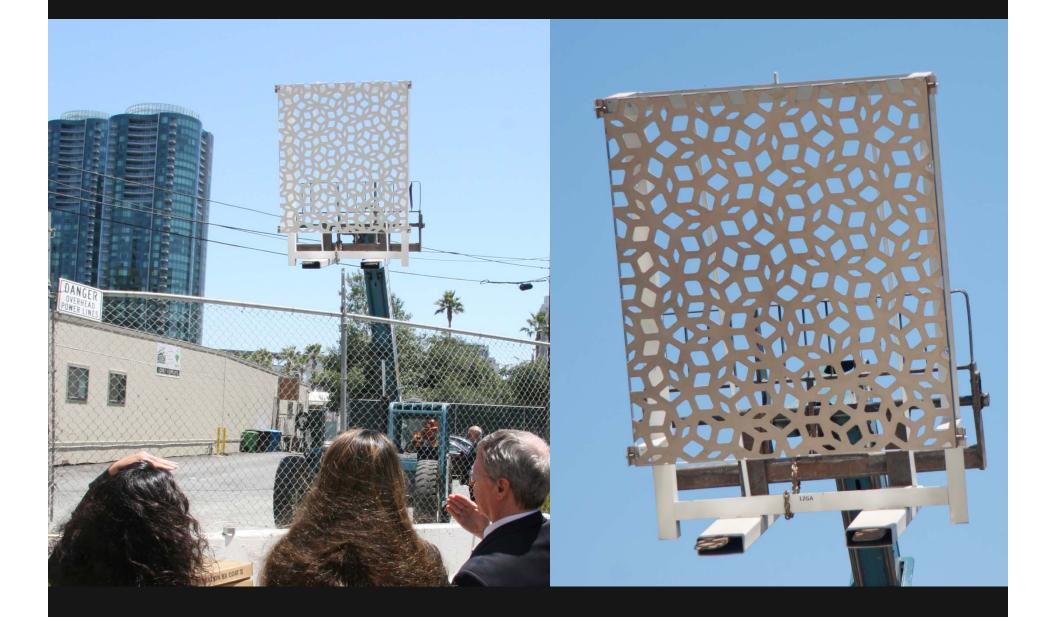
STAINLESS STEEL





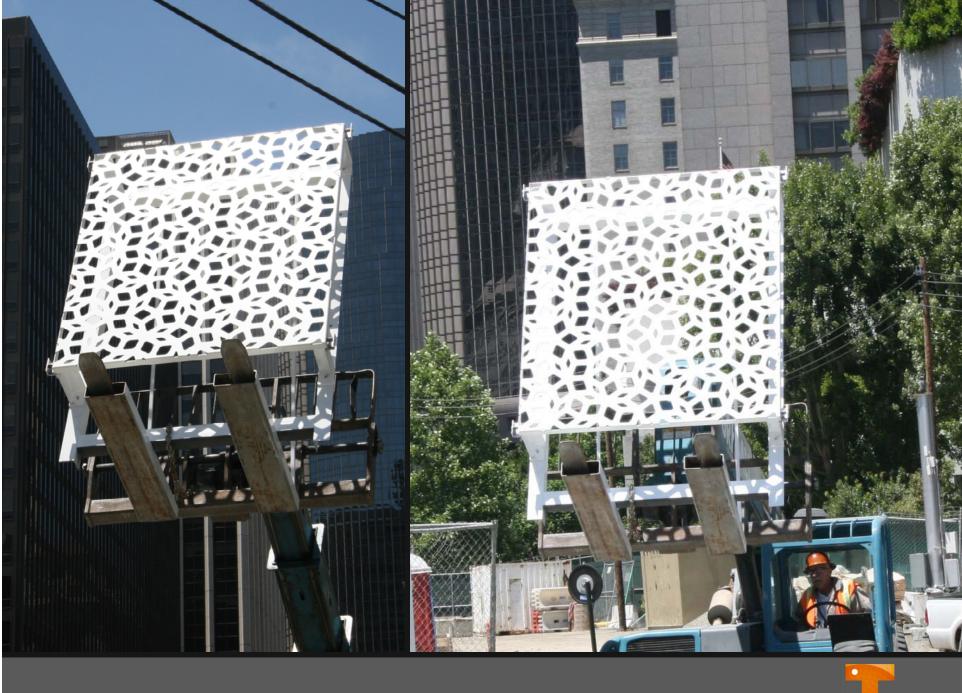
PAINTED ALUMINIUM







FULL SIZE PANELS IN SAN FRANCISCO

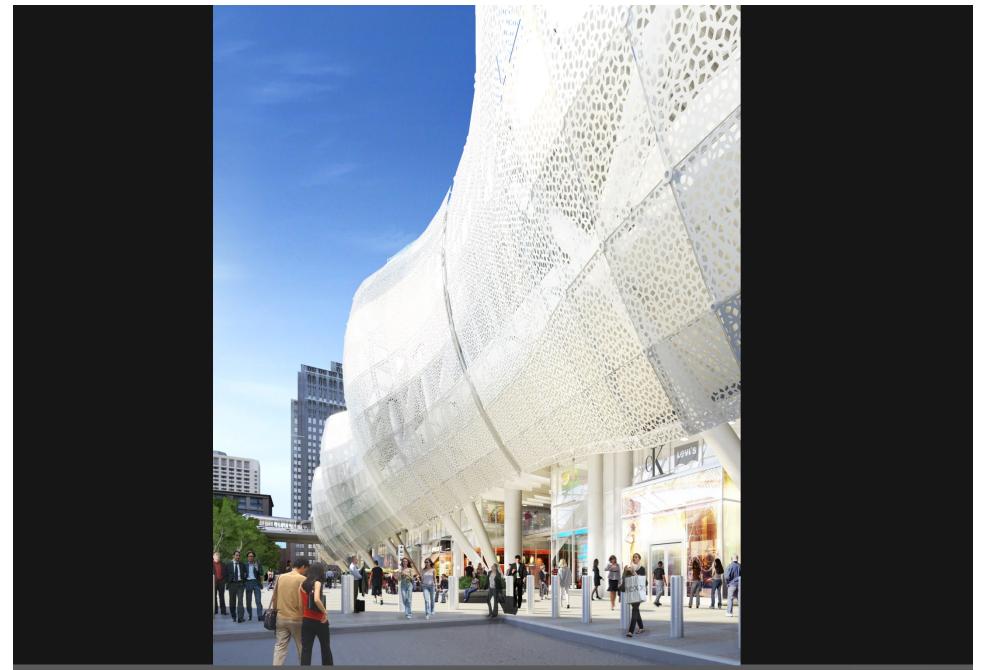


Transbay Tra

FULL SIZE PANELS IN SAN FRANCISCO

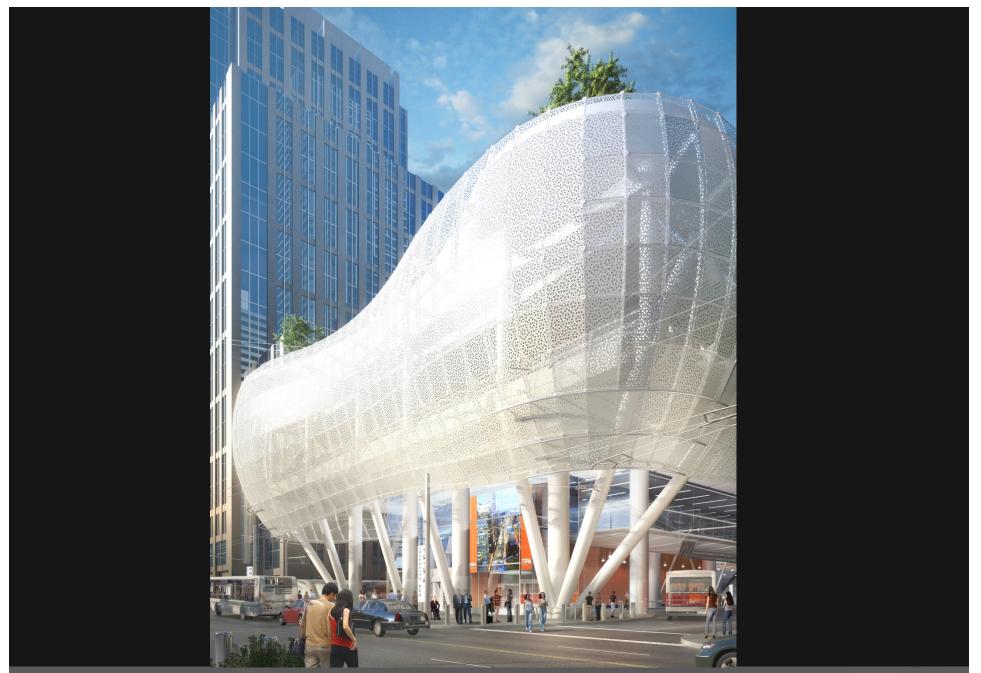






NATOMA STREET VIEW





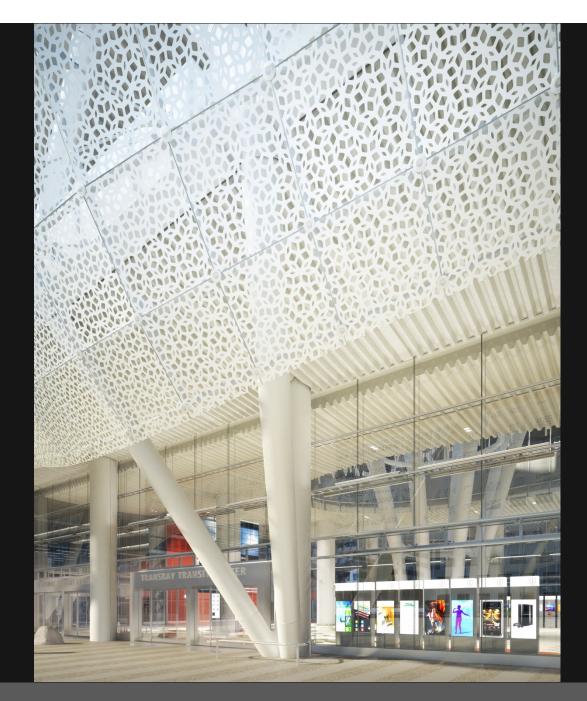






MISSION SQUARE VIEW









FIRST AND MINNA STREET VIEW - RELATIONSHIP TO TRANSBAY TOWER



MAINTENANCE



Maintenance

- Strategy similar to glass panels.
- Utilization of man-lifts and washing of the panels.
- Schedule of minimum cleaning cycle of once per year to maintain appearance and panel finish longevity.



FIRE AND LIFE SAFETY

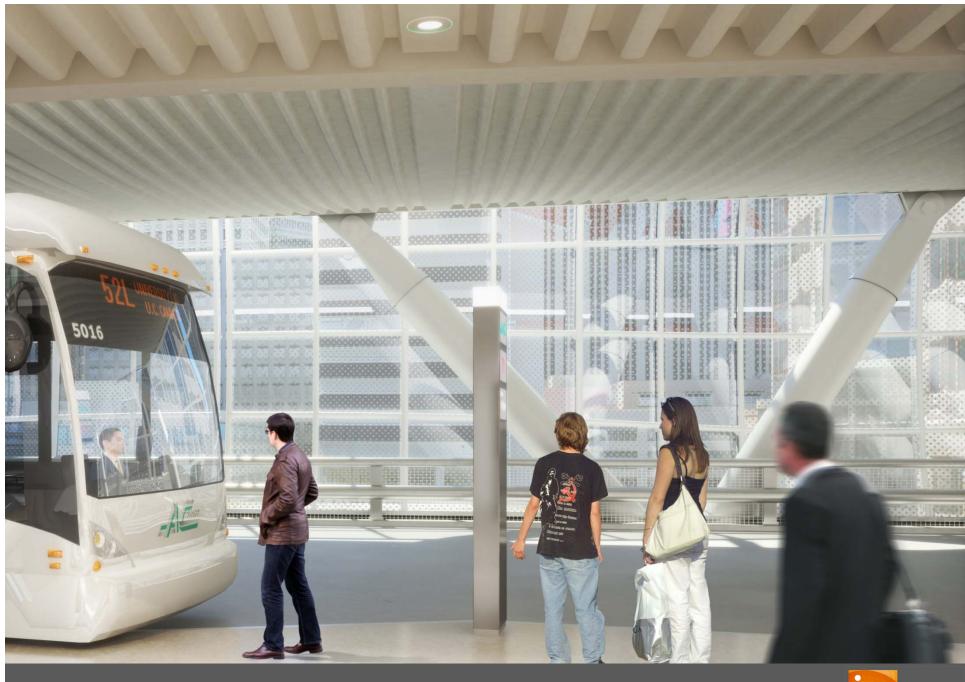


Fire & Life Safety

- Panels are non-flammable and do not create any fire & life safety issues.
- Results from Design Team analysis indicate no detrimental effects from the change to perforated metal panels.
- Information has been provided to allow the Bus Deck Smoke Ventilation Peer Reviewers an opportunity to comment on the change from glass to perforated metal panels.

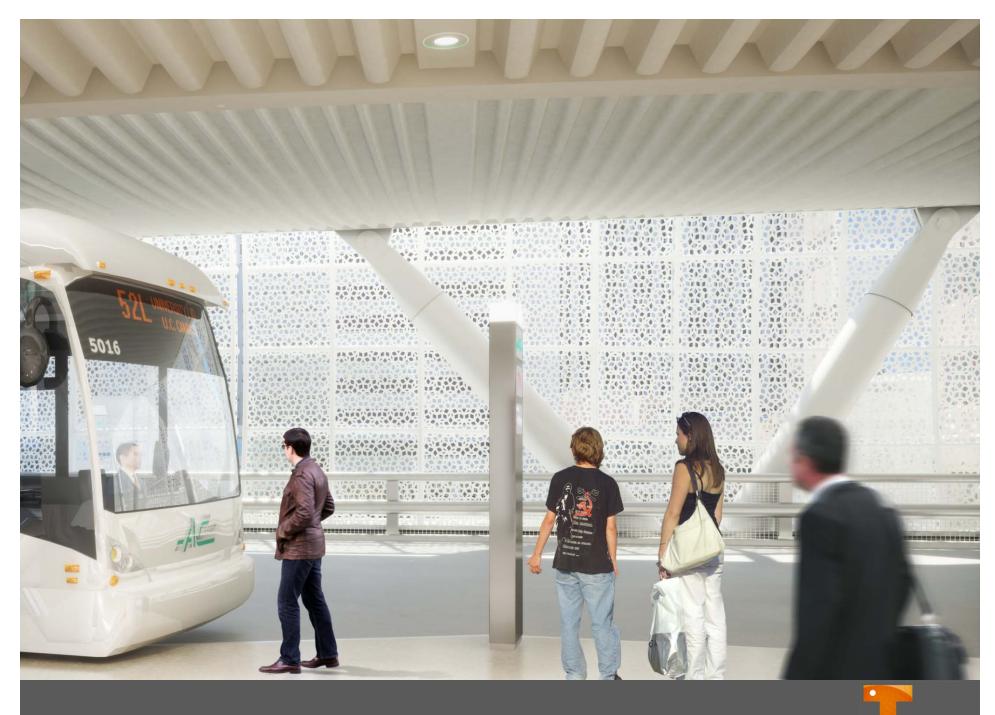
INTERIOR VIEW





INTERIOR VIEW FROM BUS DECK – GLASS AWNING



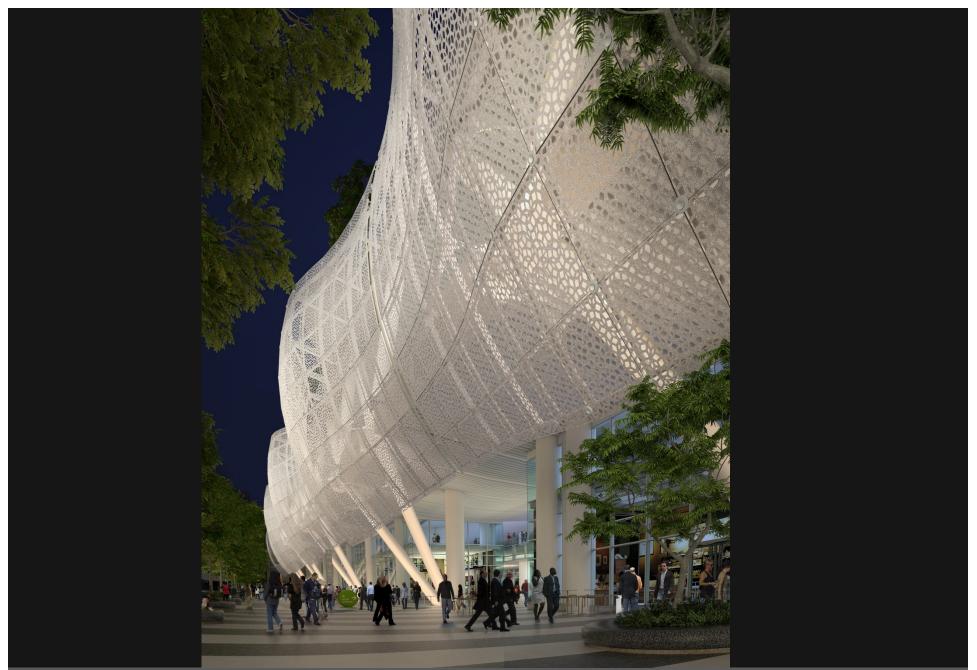


INTERIOR VIEW FROM BUS DECK – METAL AWNING

Transbay Transit Cente

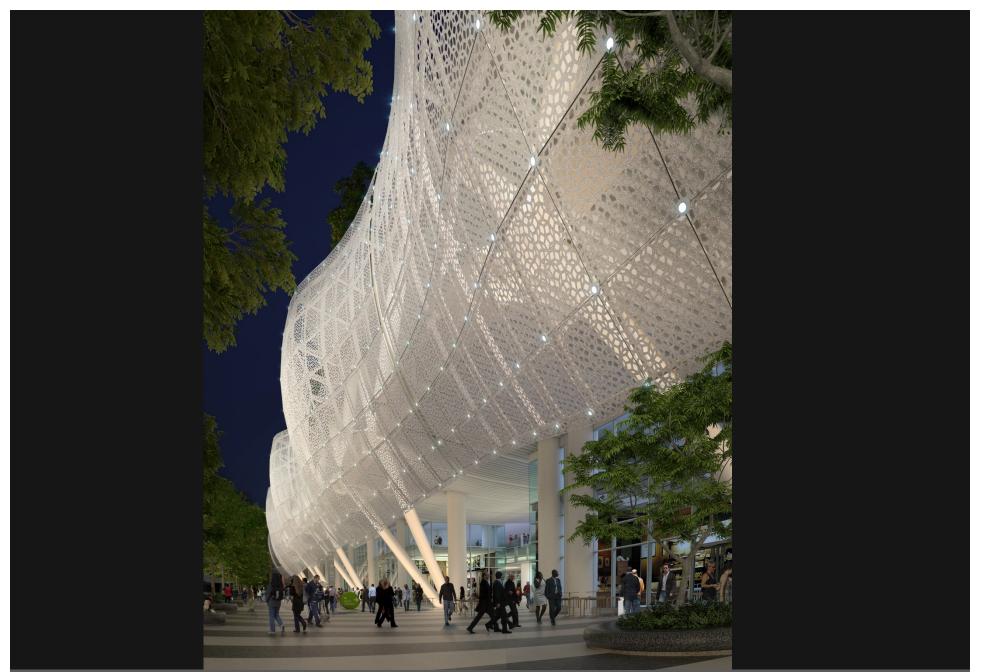






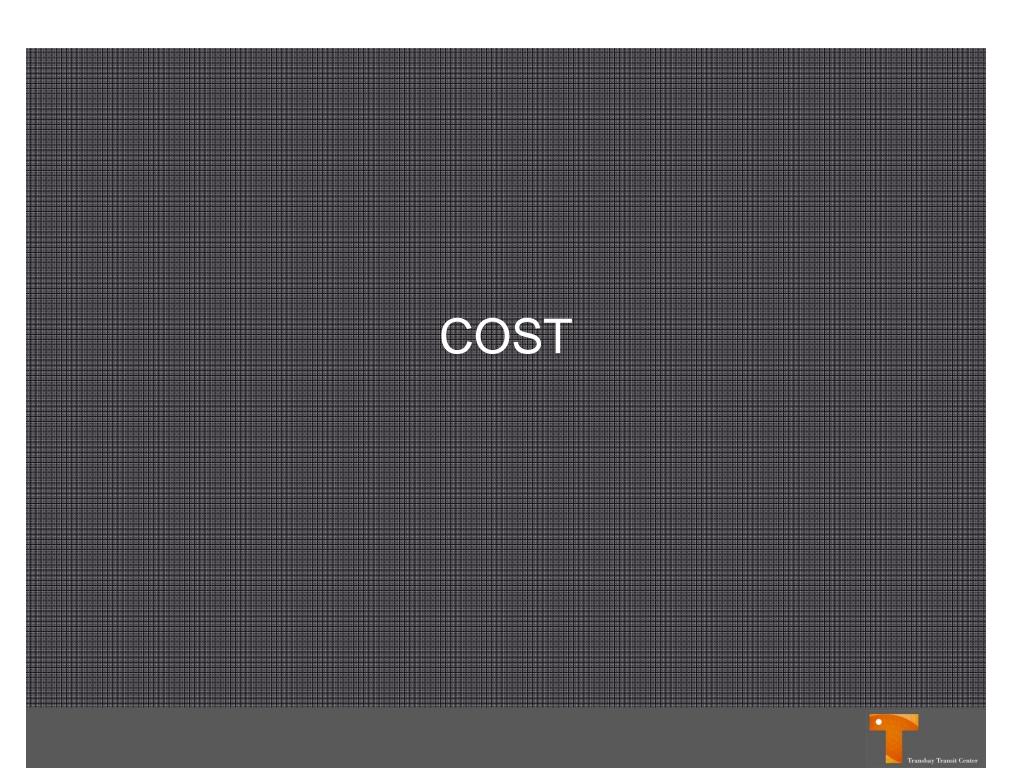
NATOMA STREET VIEW – METAL PANEL AWNING LIGHTING 1





NATOMA STREET VIEW – METAL PANEL AWNING LIGHTING 2





GLASS OPTION WITH RVA: \$38.5M

STAINLESS STEEL OPTION: PAINTED ALUMINUM OPTION: \$24M - 27M (savings of \$4M - 7M)
\$17M - 22M (savings of \$9M - 14M)

COST SAVINGS OF \$16.5M - \$21.5M WITH PAINTED ALUMINUM OPTION



W-1 AWNING COST ESTIMATE