

# FIRE STATION 204

The 16m long front facade retained the existing brick on the ground level then transitions into slender wooden louvers mounted vertically enclosing the new addition. To break up the rigidity of the materials, a 3m x 2.5m curtain wall shaft is punctured right above the staircase along the main hallway leading to the mid-level training/meeting room. The glass walls allow for sunlight to enter and brighten up the narrow corridor immediate to the main entry vestibule and to the rest of the space.

The main type of structure used is steel construction which allows for longer span and lighter bearing requirements. The simplicity of this type of structure to the existing concrete walls connects straightforwardly and permits an easier way to achieve the proposed varying heights condition complementing the contrasting red color of the new exterior finish.



FRONT VIEW

SECTION



## ASSEMBLIES

- W2** WOOD PANEL WALL  
Mounted Architectural woodwork  
15mm Prodema Panels (Dark Cherry)  
25mm Air Space  
Rainscreen Support System  
Breathable Waterproofing Membrane  
38mm Rigid Insulation  
A/V Barrier  
Concrete Masonry Block
- R2** METAL ROOF  
20mm Metal Sheet Profile A  
2-38mm Rigid Insulation  
Waterproofing membrane fastened on  
1.6mm Exterior Sheathing (Plywood) on  
Steel Decking on HSS Beams  
Gypsum ceiling board
- R1** TYPICAL EDPM ROOF  
2 Layers of EDPM Roofing fastened on  
6mm Waterproof Board  
2-38mm Rigid Insulation  
1.6mm Exterior Sheathing (Plywood) on  
Steel Decking on OWSJ  
Gypsum Ceiling board
- FL-1** TYPICAL CONCRETE FLOOR  
Slip-proof floor finishing on  
Concrete Slab above  
Waterproofing and gas membrane on  
36mm Rigid Insulation resting on  
200mm gravel bed
- W1B** INTERIOR WALL  
1.6mm Gypsum Wall Board  
96mm Steel Studs  
1.6mm Gypsum Wall Board
- CW** Kawneer Curtain Wall (Panelized)
- R1a** R1 with Exposed Ceiling



## 3D DETAIL: CURTAIN WALL to PARAPET CONNECTION

1. Pre-finished Metal Parapet
2. Extruded Aluminum Member
3. Metal Spandrel Panel
4. Insulation
5. Cold-formed Metal Frame
6. Live load Connection WT Steel Mullion
7. Glass (Clear and Red-Tinted)
8. Channels mounted on Steel Beam Struct.
9. R2 Roof Assembly

SECTION PERSPECTIVE