



Golden Sands Condominium

Golden Sands Condominium Method of Construction

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Original Façade had Exposed Balcony's 1970's

a. Prestressed Columns and Beams

b. Hollow Core Deck Plank

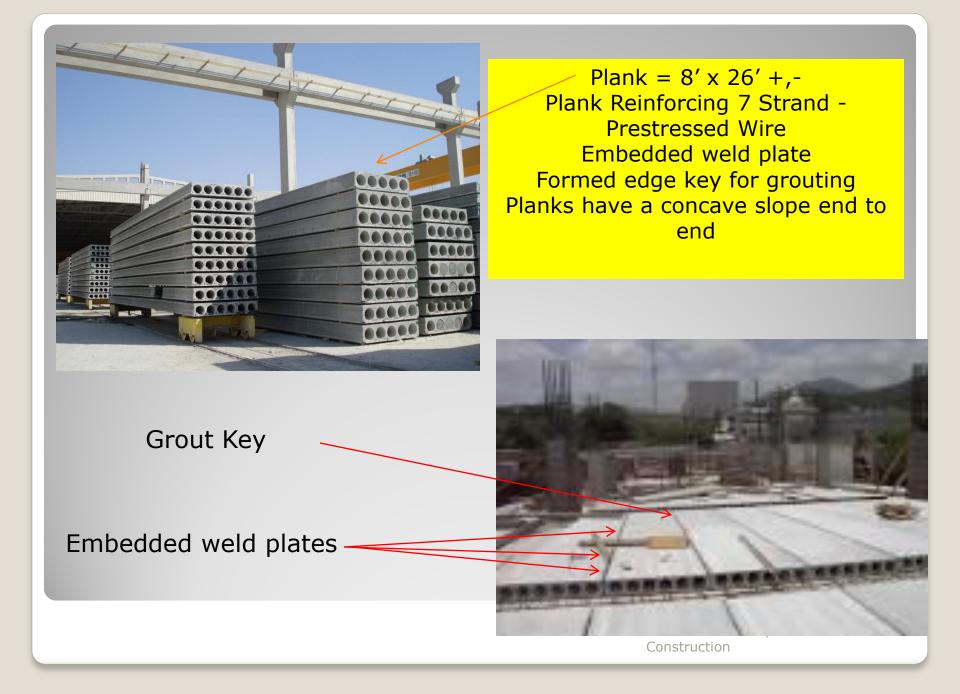
c. Poured in Place Concrete Walls @ Column Lines

d. Major Water Infiltration Issues @ Balconies

Installation of a Steel and Glass Curtain Wall Mid 1980's



East Elevation



Typical PC Columns

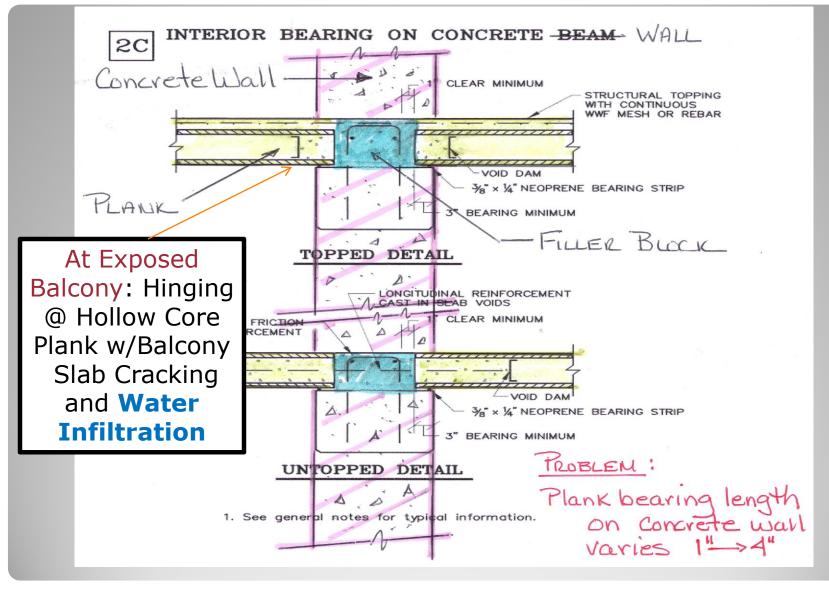
Typical Plank

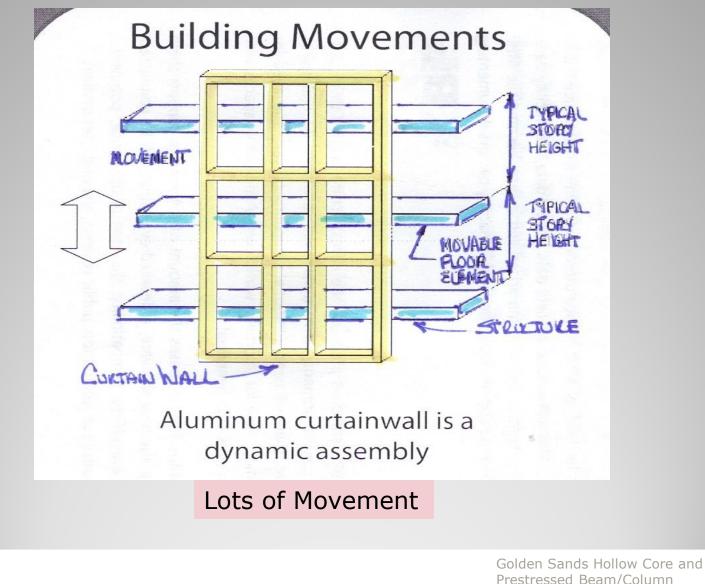
Typical Building Skeleton

Typical PC Beams

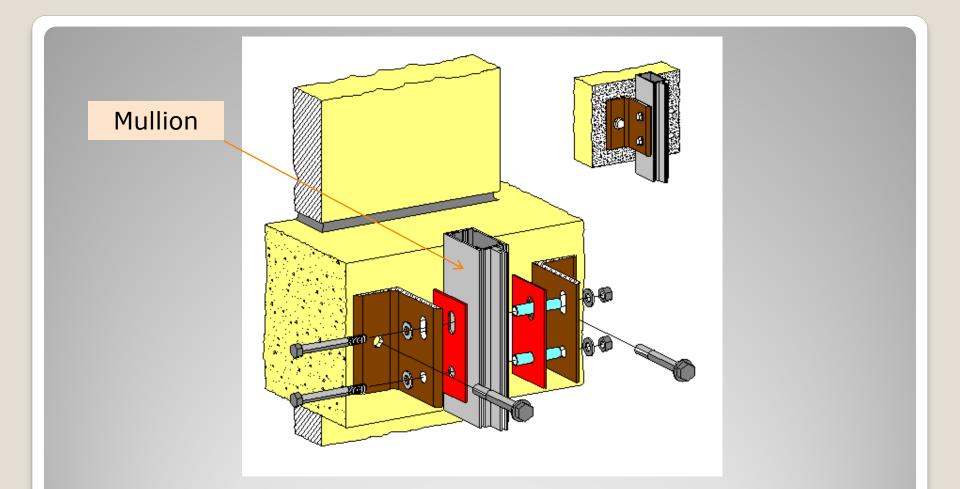


Golden Sands consists of Reinforced Concrete Walls at Column Lines and Party Walls at Plank Mid-Span

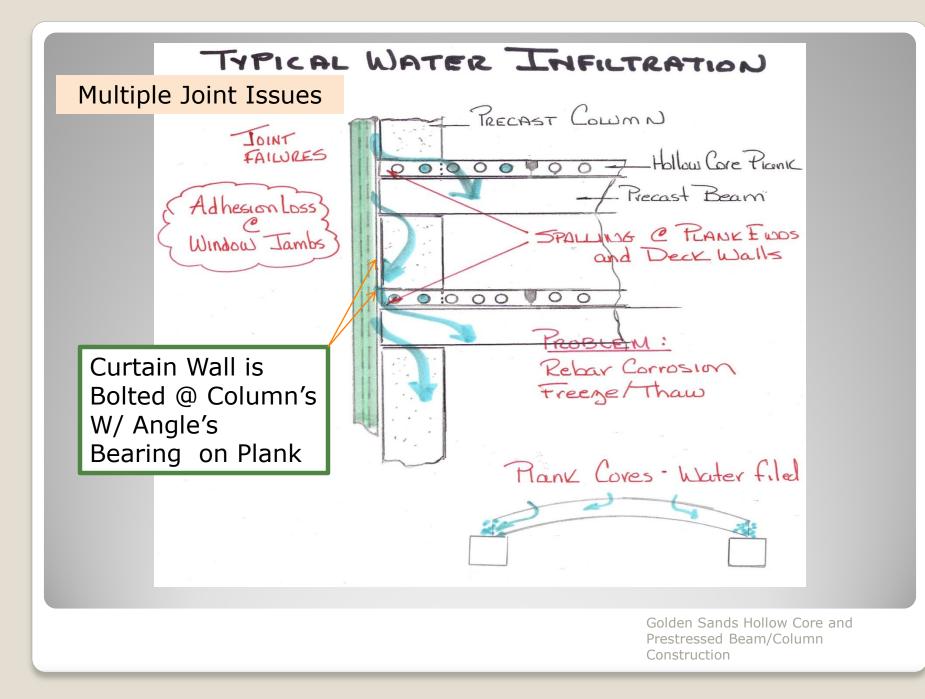




Prestressed Beam/Column Construction

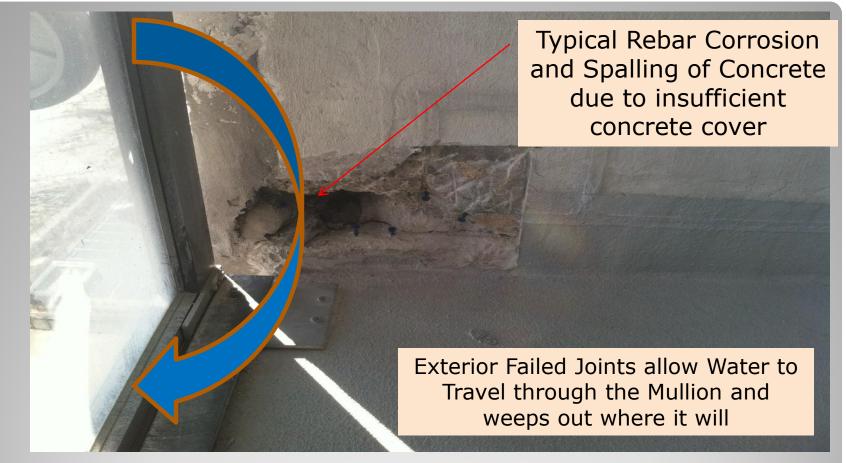


Curtain Wall Attachment Bracket





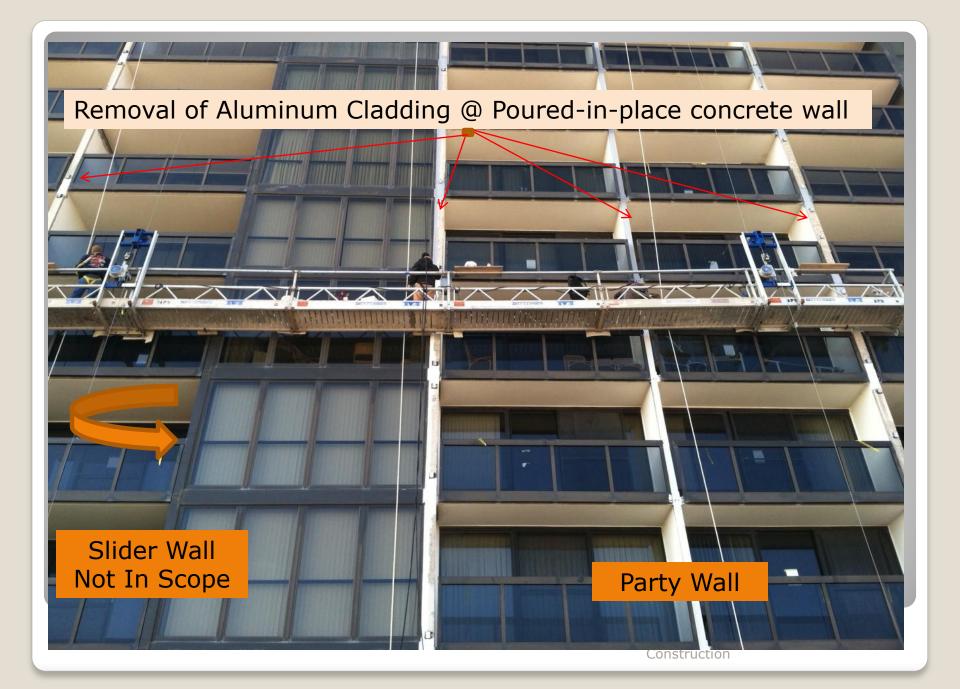
Balcony Floor Bearing Plate



Corrosion of Reinforcing Steel and Spalling Concrete



Swing Stage Access



Improperly installed sealant @ Butt joints In cover panel

No Existing Pocket Form to receive Sealant

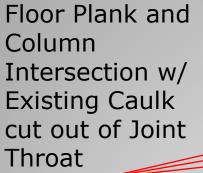


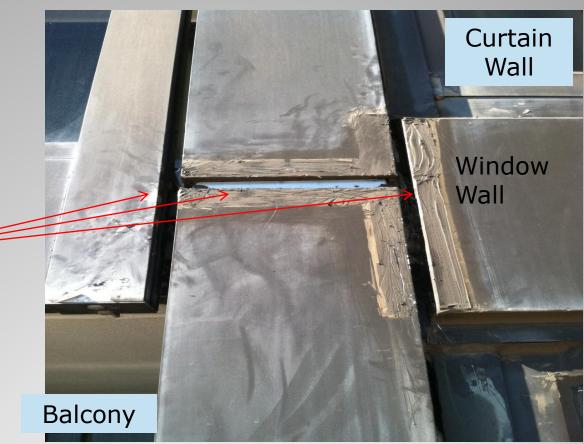
Cover Plate @ Columns

 <u>Existing Condition</u>: The sealant was packed in the joint throat...
 4-6" deep... Restricting movement between the balcony handrail and column .

Deteriorated Seal due to pressure pushing on column cover plate

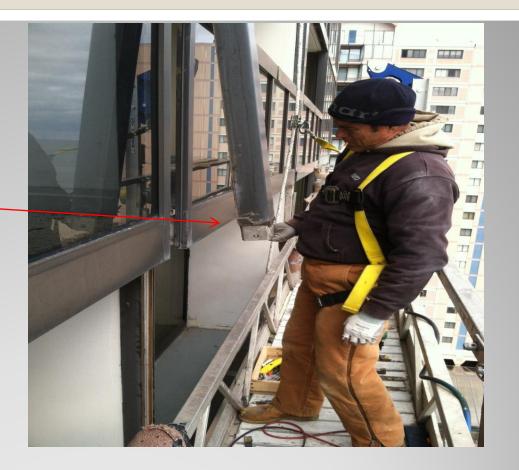
Balcony Handrail @ Column Intersection





Typical Sealant Removal

Curtain Wall bolted together...Disassembly occurred at each column line Excluding Slider Wall



Disassembling Curtain Wall

Handrail 💊



Bolted Connection @ Handrail

Unbolting bracket at Party Wall...Center of hollow core plank...non-load bearing interior wall

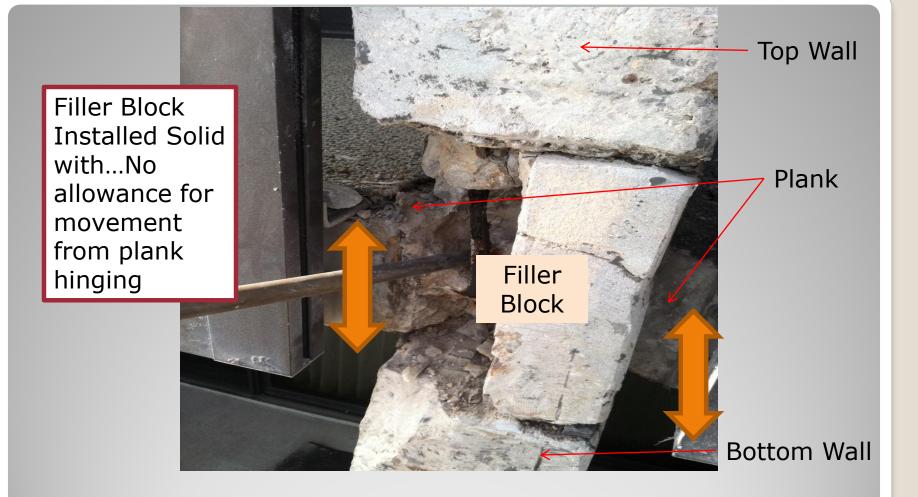


Note: Openings in Steel Stud and Mullion were closed & coated with a Rubber Membrane...(No allowances were made for frame drainage)

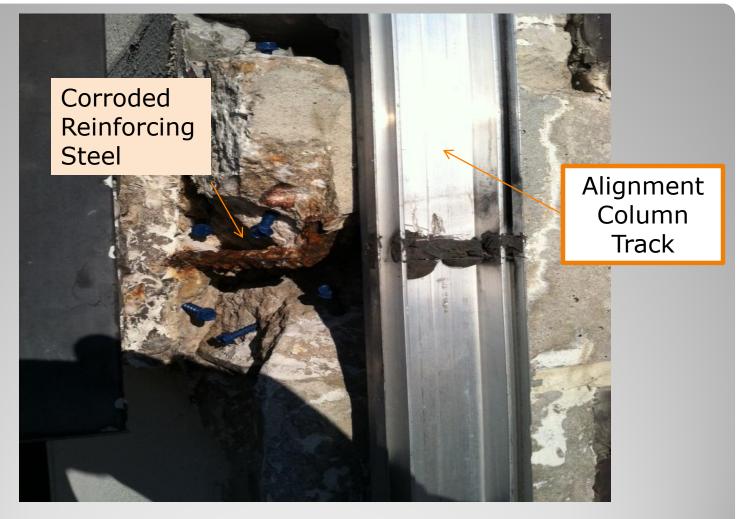
Party Wall...center of plank



Exposed Intersection of Hollow Core Plank and Prestressed Beam



Cracked and Spalled Filler Block



Corroded Steel



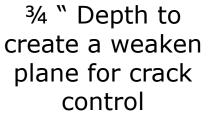
Surfaced Prepped Concrete



Notched Grove for anticipated cracking



Repaired Filler Block









Curtain Wall to Concrete Wall



Mounting Bracket for Track

Sealant Installation



Liquid Membrane



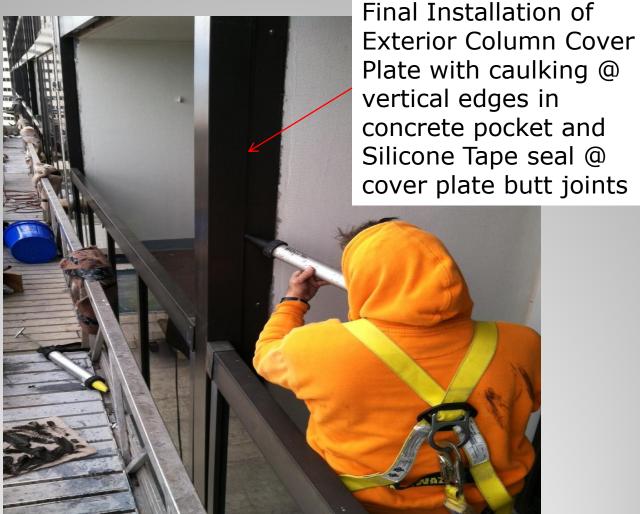
Multi Redundant Seals

Liquid Rubber Membrane applied over concrete, sealant and rolled up on to the metal window jamb



Liquid Membrane at Wall





Repairs incorporating 5 avenues of protection:

<u>Repaired</u> Spalled Concrete

 a. At balcony slab plank & Column intersection
 b. At plank filler block
 c. At hollow core plank ending bearing on PC Beam

2. Tooled a notched <u>Weaken Plane</u> in filler block... allowing for directional cracking and installed sealant

3. Sealed Perimeter Joint of window jamb to concrete wall

 <u>Coated</u> concrete wall, filler block, vertical joints and curtain intersection framing with a rubber membrane
 Reinstalled Column Cover Plates & <u>Sealed</u> All Metal Seams

Multiple Waterproofing Repair