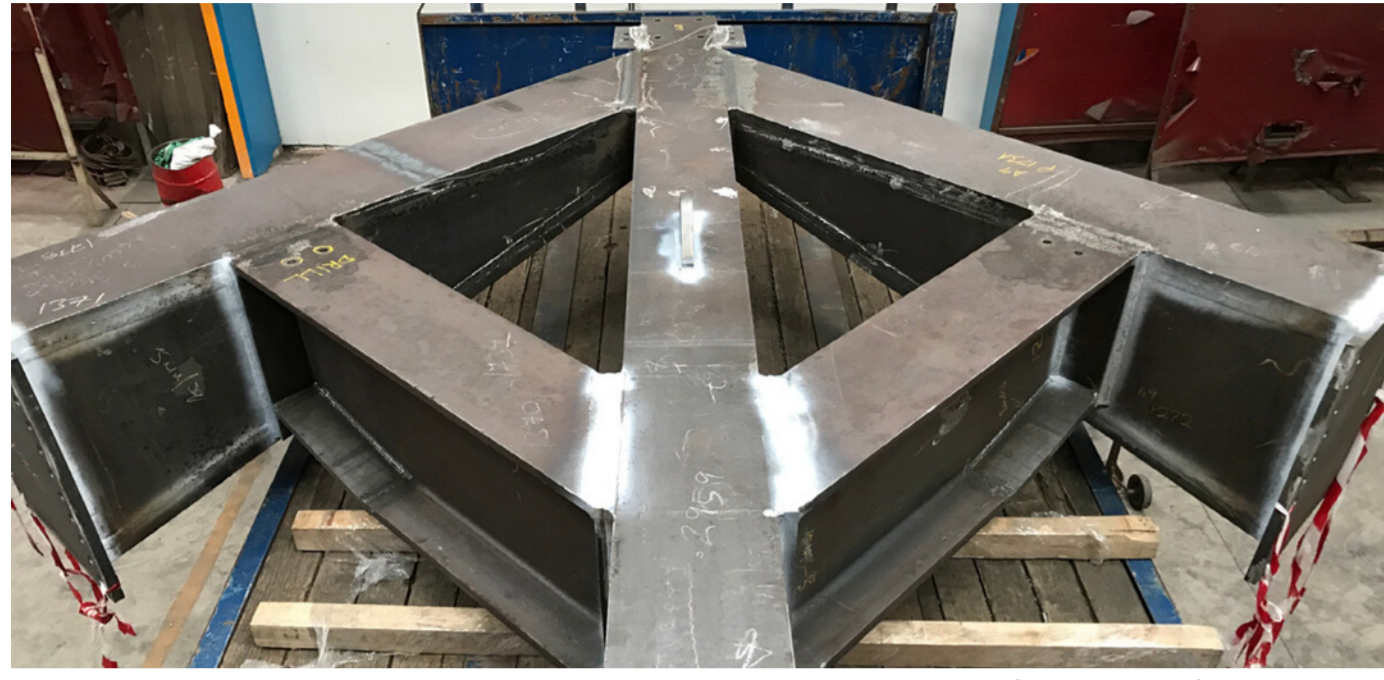


Guinness Storehouse Gravity Bar Expansion



photograph of structural steel fabrication process



Aerial photograph of Gravity Bar Expansion overlooking Dublin City



CHS column fed between floor plates



Steel and RWP coordination



Aerial image of Gravity Bar and Guinness Storehouse



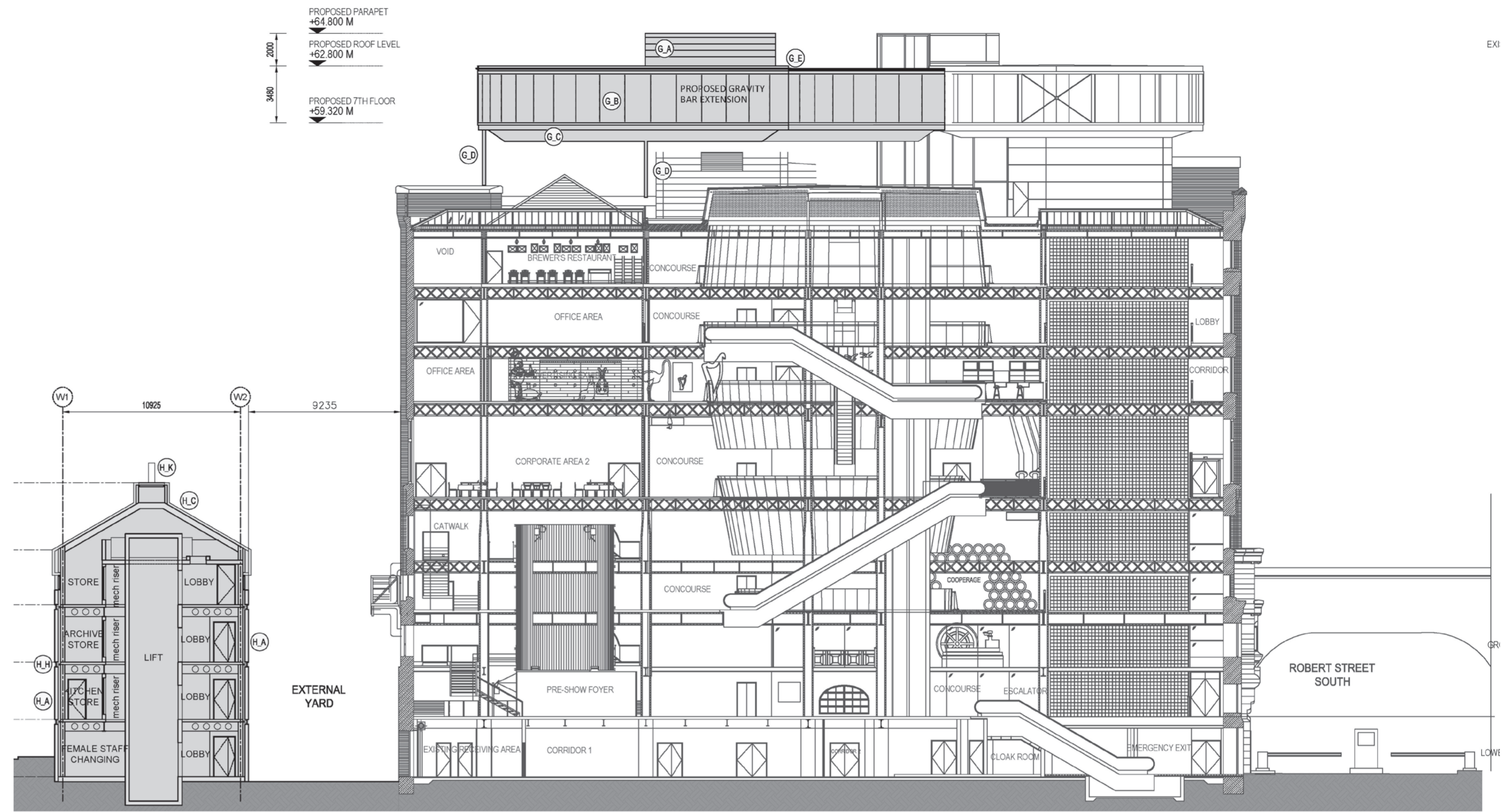
Internal view of Gravity bar



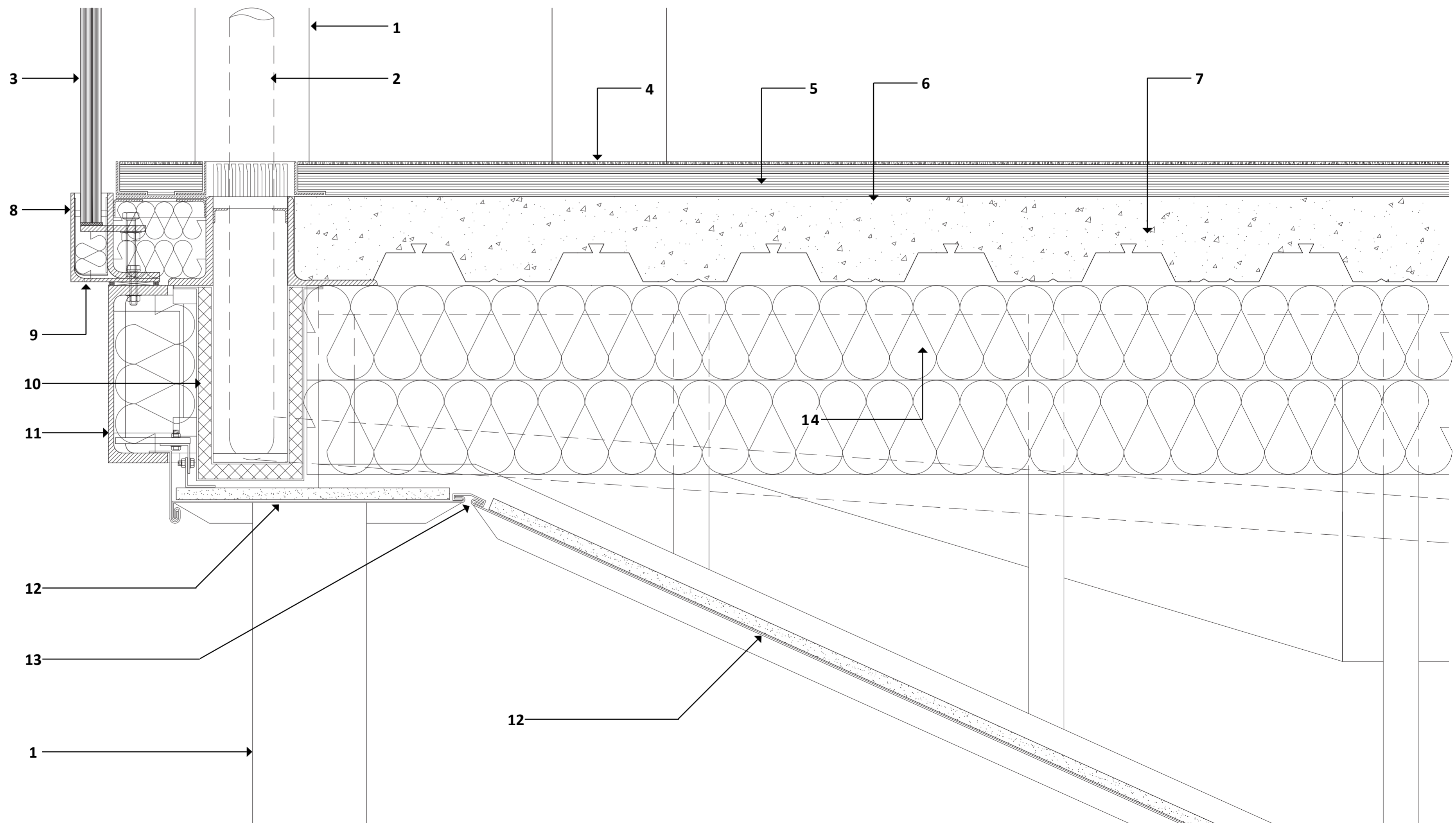
Vanity unit to level 5 toilets

1. INTUMESCENT PAINTED CHS COLUMNS TO STRUCTURAL ENGINEER'S SPECIFICATIONS TO ACHIEVE 90-MIN FIRE RATING (INTERNAL AND EXTERNAL COLUMNS)
2. MINERAL WOOL LAGGED HDPE RAINWATER DOWNPIPE WITH ELECTRO WELDED JOINTS INSTALLED IN PRIMARY STRUCTURAL CHS COLUMN
3. LOW-IRON LAMINATED ANNEALED SAFETY GLASS WITH GROUND EDGES TO GLAZING CONTRACTOR'S DETAIL & DESIGN
4. SELECTED LAMINATED FINISHED FLOOR BOARDS, ADHESIVE BONDED AND FIXED WITH CONCEALED NAIL FIXINGS TO FLOOR BASE SHEETS
5. 2-NO LAYERS OF 18MM THICK BIRCH PLYWOOD FLOOR BASE SHEETS MECHANICALLY FIXED TO CONCRETE FLOOR SLAB. SHEETS LAID IN BRICK BOND PATTERN WITH 10MM GAPS BETWEEN EACH SHEET. SHEETS LAID IN COUNTER DIRECTION TO FLOOR BOARDS
6. LEVELLING SCREED TO BE APPLIED TO UNEVEN CONCRETE FLOOR SLAB TO ENSURE MINIMUM TOLERANCES AS REQUIRED BY FLOOR BOARD MANUFACTURER
7. COMFLOR COMPOSITE FLOOR DECKING TO STRUCTURAL ENGINEER'S SPECIFICATIONS
8. BRUSHED STAINLESS STEEL GLAZING ANGLE BRACKET TO GLAZING CONTRACTORS' DETAIL & DESIGN
9. DRAINAGE WEEP HOLE
10. INSULATED PLENUM BOX TO ACHIEVE 90-MIN FIRE RATED CONSTRUCTION
11. EXPOSED ARCHITECTURAL QUALITY FINISHED CURVED 300X100MM MILD STEEL PVC TO ENGINEER'S SPECIFICATIONS
12. RHEINZINK STANDING SEAM ZINC CLADDING ON PROPRIETARY BREATHER MEMBRANE ON 18MM THICK CEMENT PARTICLE BOARD MECHANICALLY FIXED TO SFS SUSPENSION SYSTEM AT CENTRES AND WELDED TO PRIMARY STEEL STRUCTURE TO MANUFACTURES SPECIFICATIONS. ALL TOP RAILS TO BE THERMALLY BROKEN
13. INSECT MESH VENTILATION INLET
14. TWO LAYERS OF 150MM THICK SINGLE LAYER OF ROCKWOOL HARDROCK MULTI-FIX (DD) SEMI-RIGID INSULATION BOARDS MECHANICALLY FIXED TO SOFFIT OF COMFLOR FLOOR DECK TO ALL AREAS BETWEEN INSULATED FLOOR BEAMS 50MM THICK "QUICK FLOOR XS" LIQUID SCREED AS SUPPLIED BY ROADSTONE LAID ON CLEAR MIN 1000-GUAGE POLYTHENE DPM WITH TRANSLUCENT SLIP-RESISTANT SEALER

PROPOSED PARAPET
+64.800 M
PROPOSED ROOF LEVEL
+62.800 M
PROPOSED 7TH FLOOR
+59.320 M



Section Drawing Through Guinness Storehouse



Section Detail - Typical CW Base/Soffit
Scale 1:5

Old Meets New

15. 50MM THICK "QUICK FLOOR XS" LIQUID SCREED AS SUPPLIED BY ROADSTONE LAID ON CLEAR MIN 1000-GUAGE POLYTHENE DPM WITH TRANSLUCENT SLIP-RESISTANT SEALER

16. 5MM THICK RESILIENT CLOSED CELL EXPANDED POLY-ETHYLENE EDGE STRIP INSTALLED TO ALL PERIMETERS

17. 50X50X3MM CONTINUOUS SOLID BRASS EQUAL LEG ANGLE MECHANICALLY FIXED TO CONCRETE FLOOR SLAB

18. SELECTED LAMINATED FINISHED FLOOR BOARDS, ADHESIVE BONDED AND FIXED WITH CONCEALED NAIL FIXINGS TO FLOOR BASE SHEETS

19. 2-NO LAYERS OF 18MM THICK BIRCH PLYWOOD FLOOR BASE SHEETS MECHANICALLY FIXED TO CONCRETE FLOOR SLAB. SHEETS LAID IN BRICK BOND PATTERN WITH 10MM GAPS BETWEEN EACH SHEET. SHEETS LAID IN COUNTER DIRECTION TO FLOOR BOARDS

20. LEVELLING SCREED TO BE APPLIED TO UNEVEN CONCRETE FLOOR SLAB TO ENSURE MINIMUM TOLERANCES AS REQUIRED BY FLOOR BOARD MANUFACTURER

21. COMFLOR COMPOSITE FLOOR DECKING TO STRUCTURAL ENGINEER'S SPECIFICATIONS

22. TWO LAYERS OF 150MM THICK SINGLE LAYER OF ROCKWOOL HARDROCK MULTI-FIX (DD) SEMI-RIGID INSULATION BOARDS MECHANICALLY FIXED TO SOFFIT OF COMFLOR FLOOR DECK TO ALL AREAS BETWEEN INSULATED FLOOR BEAMS

23. ROCKWOOL TRAPEZOIDAL FIRE STOPPING SYSTEM INSTALLED TO ALL VOIDS ABOVE PRIMARY STRUCTURAL BEAMS PRIOR TO FIRE PROOFING OF BEAMS

24. BESPOKE MILD STEEL PRIMARY STRUCTURAL BOX-GIRDER FLOOR BEAM TO STRUCTURAL ENGINEERS DESIGN AND SPECIFICATIONS

25. PRIMARY STRUCTURAL BEAMS TO BE FIRE PROOFED WITH TWO LAYERS OF 50MM THICK ROCKWOOL BEAMCLAD INSULATION SYSTEM TO ACHIEVE 90-MIN FIRE RATING. BEAMS PRIMED AND PAINT FINISHED PRIOR TO INSTALLATION SYSTEM

26. RHEINZINK STANDING SEAM ZINC CLADDING ON PROPRIETARY BREATHER MEMBRANE ON 18MM THICK CEMENT PARTICLE BOARD MECHANICALLY FIXED TO SFS SUSPENSION SYSTEM AT CENTRES AND WELDED TO PRIMARY STEEL STRUCTURE TO MANUFACTURERS SPECIFICATIONS. ALL TOP RAILS TO BE THERMALLY BROKEN SIKA-TROCAL TYPE-S SINGLE PLY WEATHERING MEMBRANE MECHANICALLY FIXED TO COMFLOR ROOF DECKING SYSTEM

27. 150MM THICK BASE SEMI-RIGID MINERAL WOOL ROOF INSULATION WITH MINIMUM 60MM THICK, 1:60 TAPERED SIMI-RIGID MINERAL WOOL INSULATION. BOTH LAYERS MECHANICALLY FIXED TO COMFLOR ROOF DECKING SYSTEM

28. SELF-ADHESIVE VAPOUR CONTROL LAYER APPLIED PRIOR TO INSTALLATION OF ROOF INSULATION

29. POLYESTER POWDER COATED PARAPET CAPPING ON 18MM CEMENT PARTICLE BOARDS MECHANICALLY FIXED TO ROOF PERIMETER MILD STEEL PFC

30. WEATHERING MEMBRANE BONDED AND MECHANICALLY FIXED TO TOP OF ROOF PERIMETER MILD STEEL PFC

31. TEMPORARY ROPE GUIDES TO BE USED DURING MAINTENANCE ABSEILING

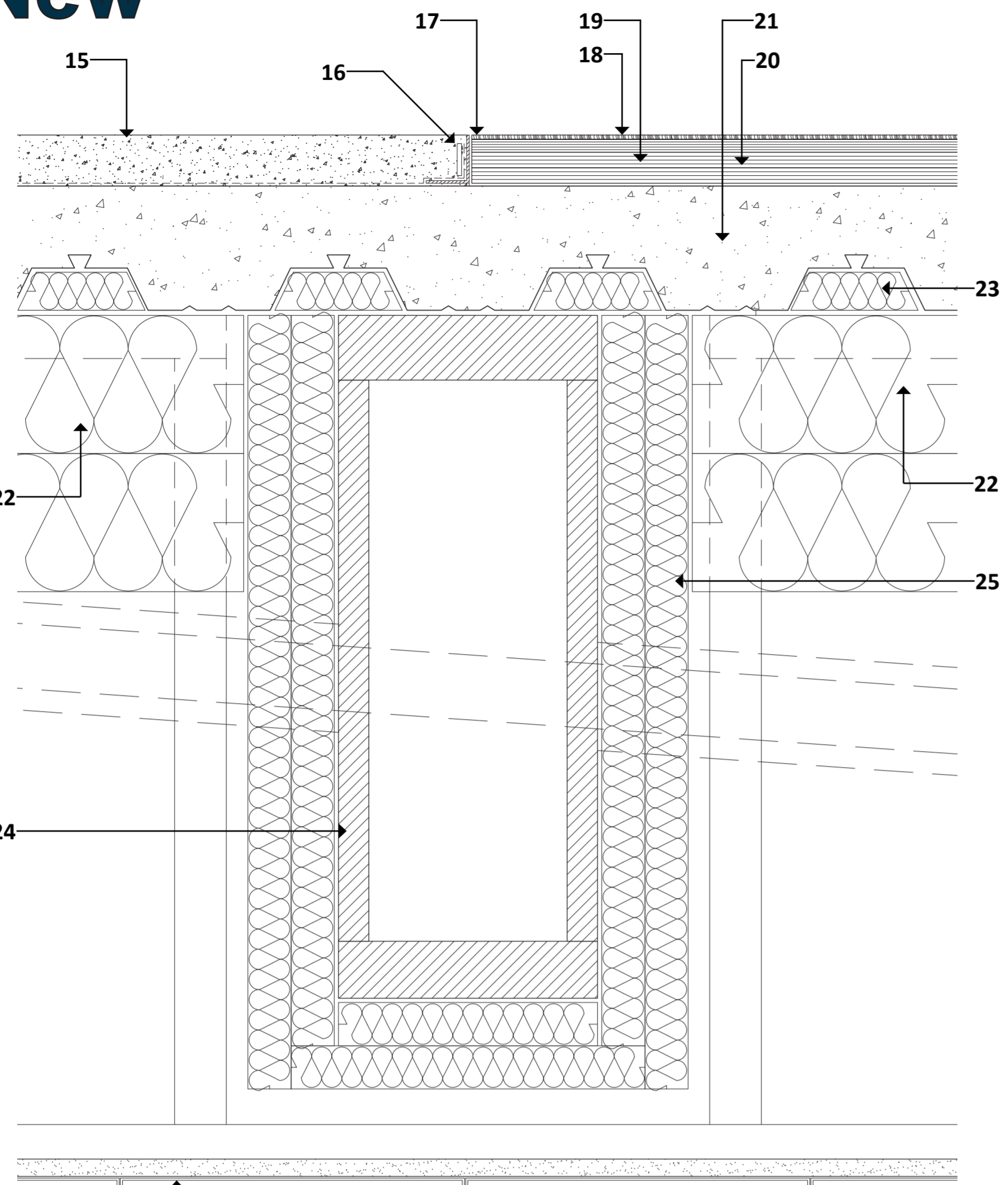
32. CURVED PERIMETER RAIL WITH SUPPORTS FIXED BACK TO CURVED ROOF PFC TO ENGINEERS SPECIFICATIONS

33. EXPOSED ARCHITECTURAL QUALITY FINISHED CURVED 300X100MM MILD STEEL PVC TO ENGINEER'S SPECIFICATIONS

34. BRUSHED STAINLESS STEEL GLAZING ANGLE BRACKET TO GLAZING CONTRACTORS' DETAIL & DESIGN

35. LOW-IRON LAMINATED ANNEALED SAFETY GLASS WITH GROUND EDGES TO GLAZING CONTRACTOR'S DETAIL & DESIGN

36. INTUMESCENT PAINTED CHS COLUMNS TO STRUCTURAL ENGINEER'S SPECIFICATIONS TO ACHIEVE 90-MIN FIRE RATING (INTERNAL AND EXTERNAL COLUMNS)



Section Detail - Through Soffit Girder Beam
Scale 1:5

37. COMFLOR COMPOSITE FLOOR DECKING TO STRUCTURAL ENGINEER'S SPECIFICATIONS

38. MINERAL WOOL LAGGED HDPE RAINWATER DOWN-PIPE WITH ELECTRO WELDED JOINTS INSTALLED IN PRIMARY STRUCTURAL CHS COLUMN

39. HARMER AV ALUMINIUM RAINWATER OUTLET WITH LEAFGUARD

40. CONTINUOUS 3MM THICK FOLDED GALVANIZED MILD STEEL PLATE FORMING GUTTER BASE

41. PRIMED AND PAINTED MILD STEEL ROOF BEAMS TO STRUCTURAL ENGINEERS SPECIFICATIONS

30. WEATHERING MEMBRANE BONDED AND MECHANICALLY FIXED TO TOP OF ROOF PERIMETER MILD STEEL PFC

31. TEMPORARY ROPE GUIDES TO BE USED DURING MAINTENANCE ABSEILING

32. CURVED PERIMETER RAIL WITH SUPPORTS FIXED BACK TO CURVED ROOF PFC TO ENGINEERS SPECIFICATIONS

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Aerial view of Gravity 1 and Gravity 2



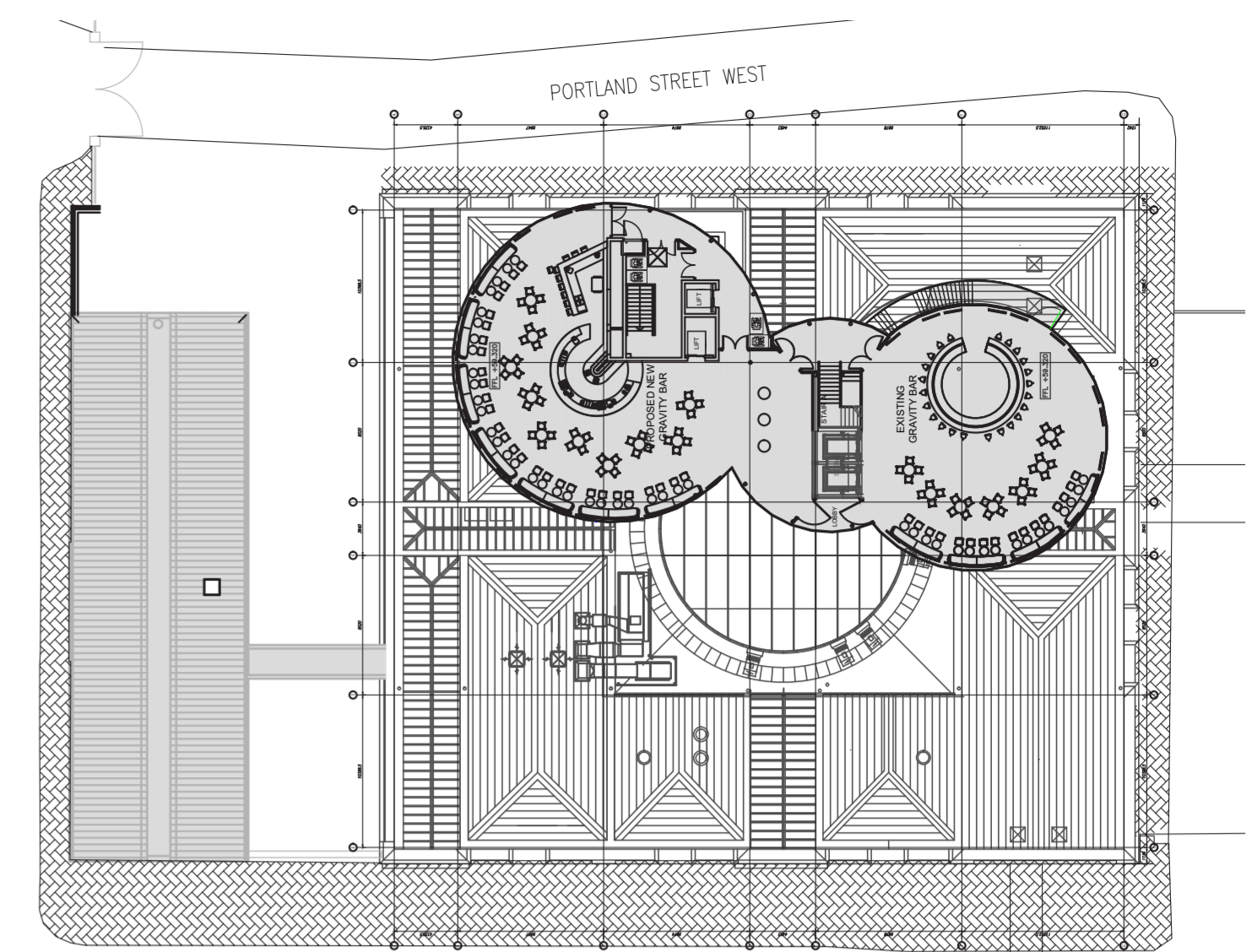
Underside View Of Gravity Bar



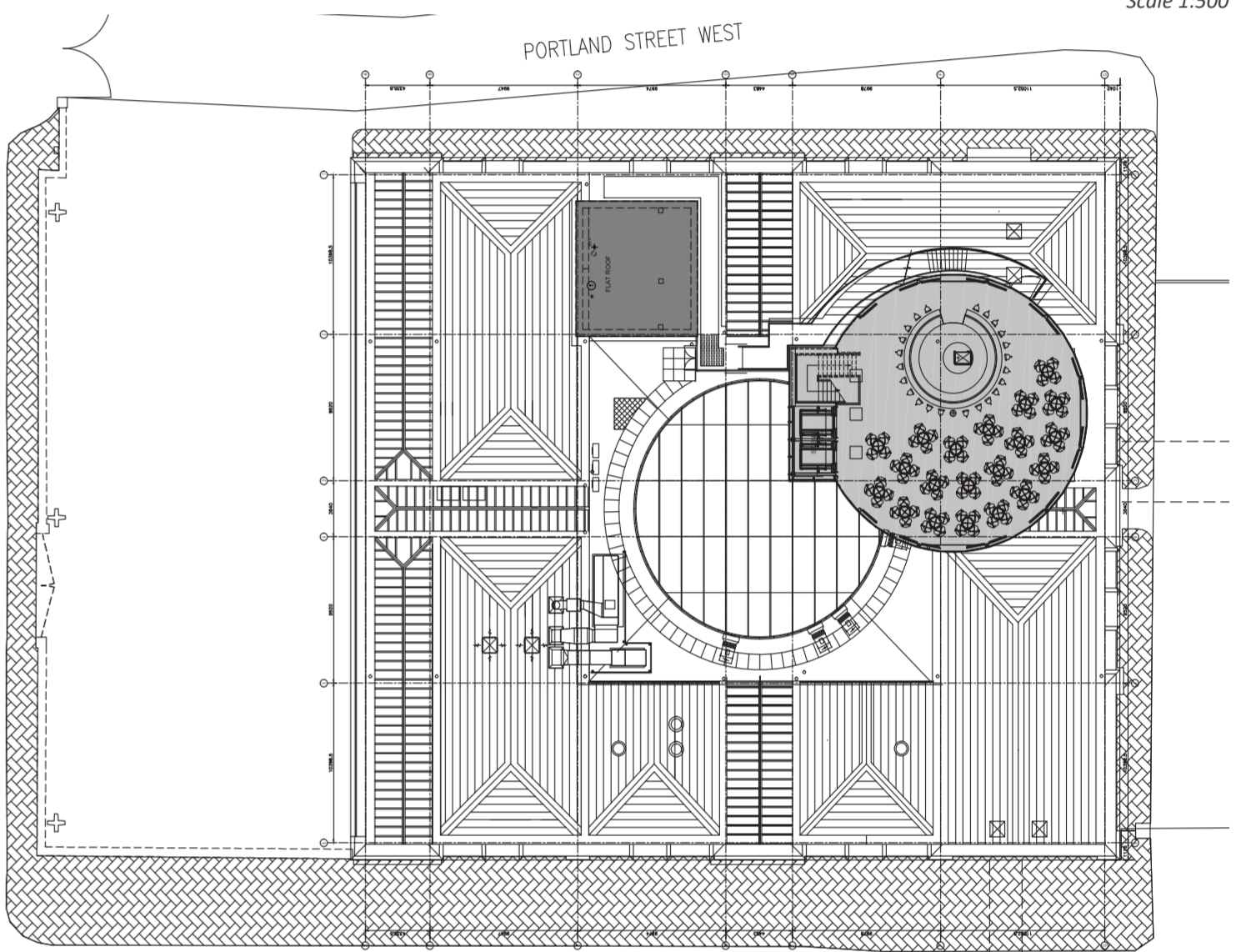
Gravity Bar At Night



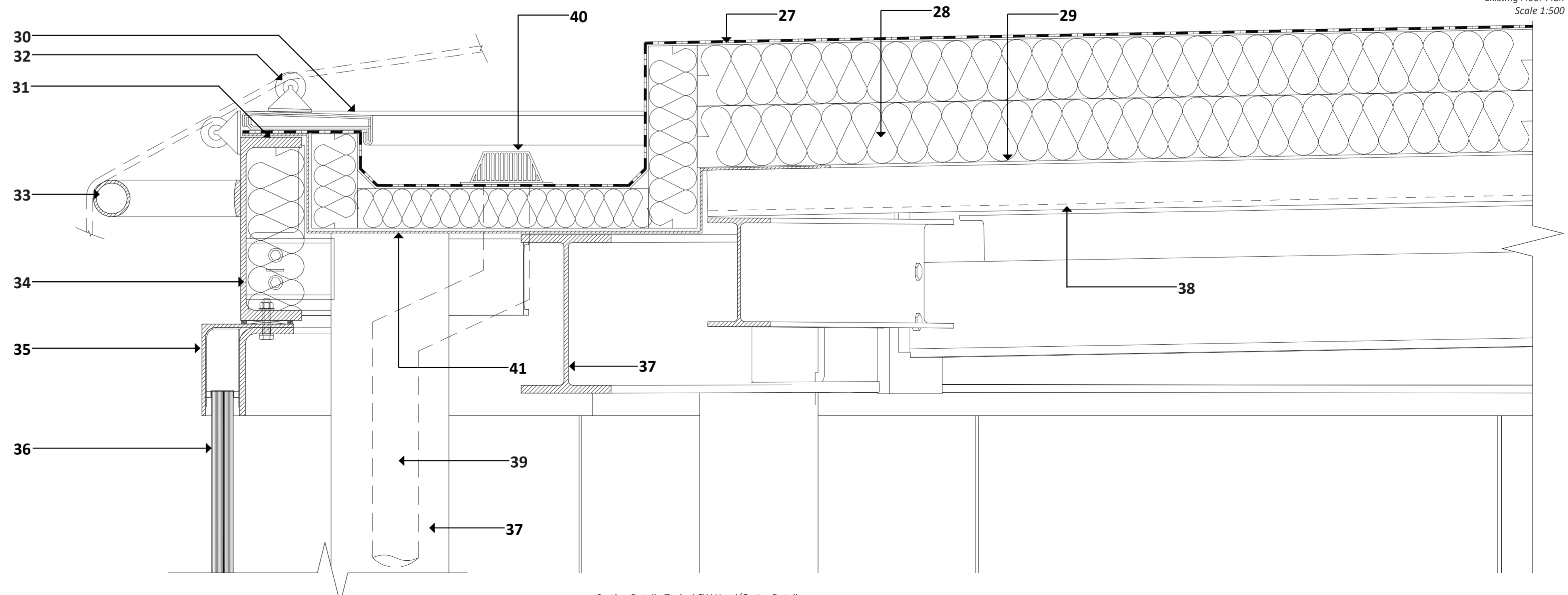
Aerial Image From Grand Canal Place



Proposed Floor Plan
Scale 1:500



Existing Floor Plan
Scale 1:500



Section Detail - Typical CW Head/Gutter Detail
1:5