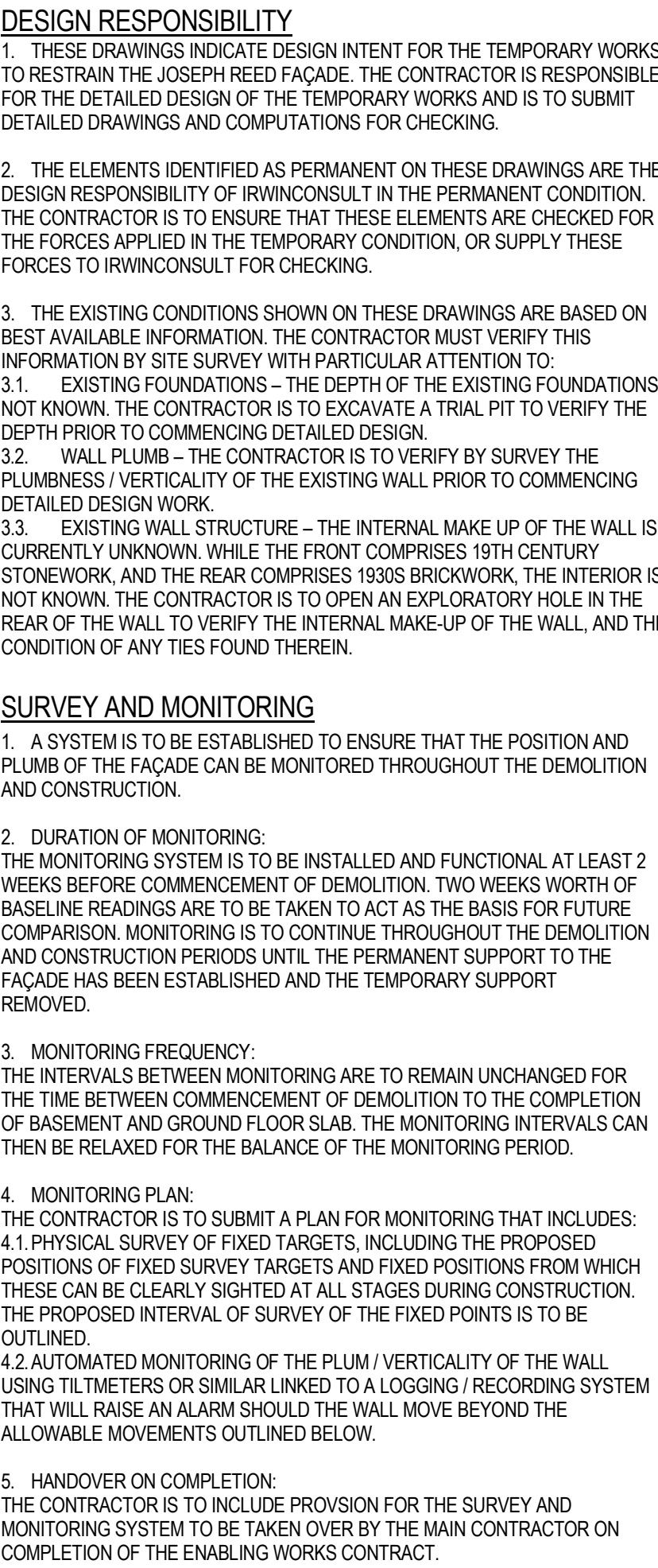




ASSUMED SEQUENCE FOR SUPPORT OF EXISTING J.R. FACADE

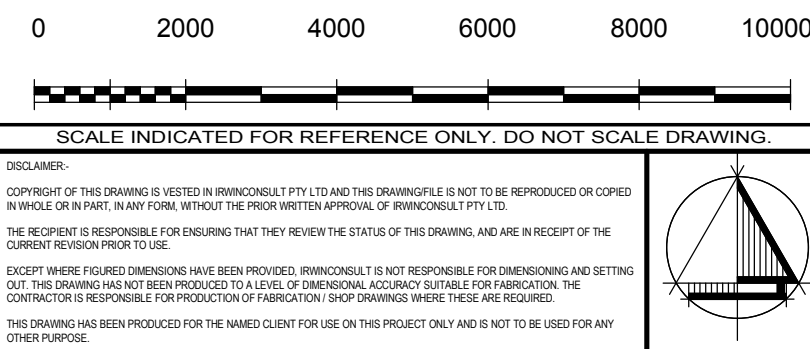
1. REMOVE WINDOWS & DOORS & STORE APPROPRIATELY. DECOMMISSION LIFT OF EXISTING FACADE.
2. CAST FOOTINGS FOR EXTERNAL TEMPORARY STEEL FRAME. COORDINATE WITH SERVICES DIVISIONS IN FRONT OF RC FACADE.
3. PROFIL INTERIOR CONCRETE BEAMS SPANNING ON FACADE. BREAK OUT LOCAL POCKETS IN FLOORS WHERE PERMANENT STEEL COLUMNS ARE TO BE INSTALLED.
4. INSTALL NEW STEEL COLUMNS (DROPPED IN FROM THE ROOF) AND FIX BACK TO THE EXISTING IRFACADE AS PER DETAILS.
5. INSTALL TIE-BACKS, STEEL ELEMENTS AND FIX BACK TO THE EXISTING IRFACADE AS PER DETAILS.
6. CONSTRUCT EXTERNAL HOARDING FRAME.
7. INSTALL KENTLEIDGE BARRIERS TO FRONT OF RETENTION/STRENGTHENING FACADE.
8. INSTALL TEMPORARY STEEL BEAMS AND CONNECT TO PERMANENT STEEL COLUMNS FIXING TO EXISTING IRFACADE.
9. EXISTING SLABS TO BE CAREFULLY SAW CUT WHERE THEY ARE SUPPORTED ON THE IRFACADE.
10. PHASE OF DEMOLITION CAN BEGIN.
11. ONCE THE LEVEL 4 SLAB IS COMPLETE, THE LEVEL 4 SLAB IS POURED AND THE MAIN STRUCTURE IS REINFORCED. THE EXISTING STEEL BEAMS ARE CONNECTED TO THE STEELWORK TO THE REAR OF THE IRFACADE. THE TEMPORARY STEEL CAN BE REMOVED.

NOTE: THE ENABLING WORKS CONTRACTOR TO INSTALL TEMPORARY STEEL TO SUPPORT THE J/R FACADE. THE REMOVAL OF ALL TEMPORARY STEEL (TO SUPPORT THE J/R FACADE) TO BE COMPLETED BY THE MAIN WORKS CONTRACTOR. FOLLOWING TRANSITION OF WORKS & RESPONSIBILITY TO THE MAIN WORKS CONTRACTOR, THE MONITORING REGIME ESTABLISHED BY THE ENABLING WORKS CONTRACTOR IS TO BE CONTINUED TO MONITOR THE PERFORMANCE OF THE J/R FACADE DURING MAIN CONSTRUCTION WORKS IN ACCORDANCE WITH THE DESIGN CRITERIA OUTLINED ON DRG. S102.

1. THE ULTIMATE MAXIMUM ALLOWABLE OUT-OF-PLUMB OF THE WALL IS TO BE CALCULATED AS BEING THE OUT-OF-PLUMB AT WHICH THE TOTAL LOAD IS GREATER THAN THE MAXIMUM DESIGN LOAD CALCULATED IN ACCORDANCE WITH THE DESIGN CRITERIA BELOW.
2. THE MONITORING PLAN IS TO ADOPT A LIMIT OF 80% OF THE ABOVE OUT-OF-PLUMB THE RESULTS OF THE SURVEY AND MEASUREMENTS ARE TO BE COMPARED WITH THIS LIMIT AND THE FOLLOWING ACTIONS TAKEN:
 - GREEN – MOVEMENT OF UP TO 50% OF THE CALCULATED LIMIT – ACTION REQUIRED
 - AMBER – MOVEMENT BETWEEN 50% AND 75% OF THE CALCULATED LIMIT – ADVISE PROJECT SUPERVISOR, ARCHITECT AND STRUCTURAL ENGINEER
 - RED – INVESTIGATE CAUSE OF MOVEMENT
 - PREPARE PLAN FOR REMEDIAL ACTION TO BE TAKEN IF MOVEMENT EXCEEDS RED LIMIT
 - MOVEMENT – 75% OF THE LIMIT – STOP ALL WORK ON THE WALL
 - IMPLEMENT REMEDIAL ACTION PLAN
 - ADVISE PROJECT SUPERVISOR, ARCHITECT AND STRUCTURAL ENGINEER
3. THE TEMPORARY CRITERIA
1. LOADS
- 1.1. DESIGN HORIZONTAL LOADS ARE TO BE DESIGNED FOR THE GREATER OF:
 - A. THE DESIGN HORIZONTAL LOADS RESULTING FROM THE EXISTING OUT-OF-PLUMB, PLUS
 - B. EXISTING OUT-OF-BALANCE MOMENT RESULTING FROM THE DISTRIBUTION OF MASS OF THE WALL PLUS
 - C. WIND AND EARTHQUAKE LOADS AS DEFINED BY THE RELEVANT PARTS OF THE DESIGN CRITERIA
2. 15% OF THE VERTICAL DEAD LOAD AT EACH LEVEL TAKEN AS ACTING HORIZONTALLY.
3. THE WINDOWS WILL BE REMOVED DURING CONSTRUCTION, HOWEVER, THE DESIGN IS TO ASSUME A SOLID FACADE AND NOT REMOVE WIND LOADS TO THE EXISTING REDUCED WINDOW SIZES.
4. THE EARTHQUAKE LOADS SHOULD ASSUME THE MASS OF TWO WORKING PLATFORMS FOR THE STONE MASON LOCATED AT RLS 5.66 AND 46.6 APPROX.
1. DEFLECTIONS
- 1.1. THE COMBINATION OF OUT-OF-PLUMB PLUS MAXIMUM DEFLECTION IS NEVER TO EXCEED THE DESIGN CRITERIA
- 1.2. THE SCENARIO WHERE THE RESULTING HORIZONTAL LOAD EXCEEDS THE DESIGN HORIZONTAL LOAD AS OUTLINED ABOVE
- 1.2.1. THE DEFLECTION IS NEVER TO EXCEED HEIGHT/250.
2. THE SUBMITTED COMPUTATIONS ARE TO INCLUDE A CLEAR RESPONSE TO THE ABOVE CRITERIA
3. THE DESIGN IS TO TAKE INTO ACCOUNT THE RESULTS OF THE PLUMBING VERTICALITY SURVEY.

[illegible]

CONSTRUCTION ISSUE



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Project
FACULTY OF ARCHITECTURE
BUILDING AND PLANNING

Client
UNIVERSITY OF MELBOURNE
PARKVILLE CAMPUS

Drawing Title
HERITAGE FACADE RETENTION DETAILS
SHEET 2

Date 04/16/12	Drawn B.P	Checked D.I	Approved B.R
Scales at A0 As indicated	Job No. 09ME0504	Sheet No. S702	Rev. F