1 k) Original Flooring Treatment

Heritage Council Comment 1 k)

The original ironbark flooring in both Wharves is proposed to be retained in-situ. However, new flooring is required in areas such as kitchens and toilet facilities. Further design details of how the ironbark flooring will be retained and protected prior to the new flooring structure being installed above must be provided to the Heritage Council for assessment prior to approval of this project.

Response

The original ironbark flooring is to be generally retained and protected. Where new finishes are proposed over the original flooring a double layer of 0.2mm thick plastic sheet, taped and sealed, will be installed to protect the original timber flooring from damage.

Equitable access underpins the adaptive reuse of the pier. To comply with accessibility codes it is necessary to remove the top layer of the original timber flooring in limited areas such as to the accessible bathrooms and commercial kitchens. The extent of this intervention has been carefully considered to minimise heritage impact, and is restricted to floor types 3, 8, 9, 10, 40, and 44.

The SoHI refers to works to the floor in Wharf 4/5 as follows:

> *The original ironbark flooring is a heritage feature of the building. The current proposal will retain the ironbark flooring in full, and where it cannot be exposed, it will be protected and preserved. Where programmatic requirements necessitate a different floor type, such as wet areas, the ironbark will be retained and protected prior to the new floor structure being installed.*

The SoHI contains recommendations regarding floor protection (p.220.) as follows:

> *- New floors over old*
>
> *- Minimise fixings where possible.*
>
> *- Significant building fabric and elements are to be protected from potential damage during the works, especially demolition works. Protection systems must ensure historic fabric is not damaged or removed.*
>
> *- Restoring floorboards*
>
> *- In areas where the gaps between the floorboards exceed 5mm or there are raised edges that exceed 3mm in height then the floorboards shall be repaired to ensure a more even surface for OHS and equitable access requirements.*

The diagrams on pages 152-154 of the SoHI show the extent of original floor revealed in the proposal.

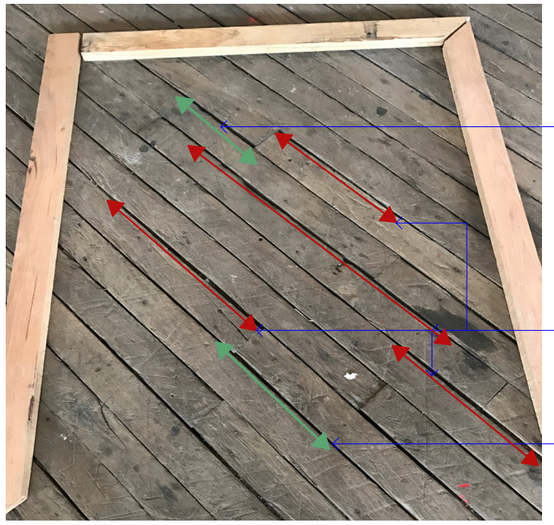

Figure 74: Proposed timber floor repair methodology - to comply accessibility requirements.
Source: TZG 2017

Figure 75: Original Flooring in Pier 2/3

PIER 2/3 GROUND LEVEL

FLOOR TYPE 01

XTFR 125 x 50mm nom existing timber floor boards
Repair existing timber floor as specified to Heritage Architect's approval. Refer A-006 for extent and detail of required repairs.
Note: All gaps to Bell Boardroom and Green Room flooring to be caulked/filled to minimise noise from condensers adjacent.
Existing timber substructure.

GROUND — FOYER/ COMMERCIAL 1/ BELL BOARDROOM/GREEN ROOM

FLOOR TYPE 02

RF/RFS 2mm resilient flooring.
3mm Regupol 4515-S underlay
12mm plywood laid over
18mm plywood
Double layer of 0.2mm thick plastic sheet taped and sealed to protect original timber floor to protect original timber floor.
Existing timber floor repaired as specified.
Existing timber substructure.

GROUND — BELL WARDROBE/COSTUME/TECH STORE

FLOOR TYPE 03

CTF Ceramic tiles laid on nom 30mm epoxy bedding to falls.
Waterproof membrane.
Remove upper 50mm thick timber boards locally.
Salvage and store timber.
Waterproof membrane.
9mm fibre cement substrate with taped joints.
Double layer of 0.2mm thick plastic sheet taped and sealed to protect original timber floor.
Protect original timber base layer.
Existing timber floor base layer retained insitu.

GROUND — WET AREAS - ACCESSIBLE AMENITIES - FLUSH WITH XTF

FLOOR TYPE 04

CTF Ceramic tiles laid on nom 40mm bedding to falls.
Waterproof membrane.
9mm fibre cement substrate with taped joints.
Double layer of 0.2mm thick plastic sheet taped and sealed to protect original timber floor.
Protect existing timber floor repaired as specified.
Existing timber substructure.

GROUND — WET AREAS - AMENITIES RAISED - BELL LAUNDRY/AMENITIES, ATYP

FLOOR TYPE 05

RF/RFS 2mm resilient flooring.
18mm plywood
25mm acoustic insulation
Timber framing to achieve required level.
Double layer of 0.2mm thick plastic sheet taped and sealed to protect original timber floor.
Existing timber floor repaired as specified.
Existing timber substructure.

GROUND — ATYP SERVER/ARCHIVE

FLOOR TYPE 06

TF04 6.4mm masonite hardboard. Paint finish.
19mm plywood laid on
10mm Regupol 6010 underlay.
Double layer of 0.2mm thick plastic sheet taped and sealed to protect original timber floor.
Existing timber floor repaired as specified.

GROUND — ATYP REHEARSAL, BELL WORKSHOP

FLOOR TYPE 07

EF02 Epoxy Floor Finish
6mm Hychem Hycrete PU
(incl. self levelling and top coat SL + TC)
4.5mm Regupol 4515
nom 35mm Hyclad GP epoxy screen laid to falls
Hyclad E membrane over
2 layers of 9mm CFC cross laid, taped and sealed.
Double layer of 0.2mm thick plastic sheet taped and sealed to protect original timber floor.
Existing timber floor repaired as specified.

GROUND — COMMERCIAL 1 KITCHEN/BAR

FLOOR TYPE 08

EF02 Epoxy Floor Finish
6mm Hychem Hycrete PU
(incl. self levelling and top coat SL + TC)
40mm Hyclad GP epoxy screen laid to falls
Hyclad E membrane over
2 layers of 9mm CFC cross laid, taped and sealed.
Heater blanket and perimeter heater cable.
50mm dense structural insulation.
Double layer of 0.2mm thick plastic sheet taped and sealed to protect original timber floor.
Locally remove top 50mm thick layer of timber flooring to coolroom area.

GROUND — COMMERCIAL 1 COOL ROOMS

FLOOR TYPE 09

RF/RFS 2mm resilient flooring.
23mm plywood flooring
25mm CFC flooring
Double layer of 0.2mm thick plastic sheet taped and sealed to protect original timber floor.
Locally remove top 50mm layer of timber flooring.
Existing timber substructure.

GROUND — LOADING/SWITCHROOM

FLOOR TYPE 10

EF01 paint on Rockite finish.
Nom 36mm screed laid to falls
2 layers of 9mm CFC flooring cross laid, taped and sealed
Locally remove top 50mm layer of timber flooring.
Double layer of 0.2mm thick plastic sheet, taped and sealed to protect original timber floor.
Existing timber substructure.

GROUND — WASTE

PIER 2/3 MEZZANINE

FLOOR TYPE 11

TF02 19mm timber flooring.
25mm CD grade plywood flooring glued to 5mm Embelton Impactomat (or equivalent) laid continuously over tops of beams, glued to beams below.
250mm steel beams. intumescent paint finish.
200mm steel floor joists. Intumescent paint finish.
100mm acoustic absorption.
Furring channels.
13mm fire rated plasterboard.
13mm fire rated plasterboard. Paint finish.
Fire rated penetrations.

BELL/ATYP OFFICES
Assembly to achieve 60/60/60 FRL.

MEZZANINE BELL/ATYP/ BANGARRA/CHOIRS — PIER 2/3, WHARF 4/5

FLOOR TYPE 12

RF/RFS 2mm resilient flooring.
3mm Regupol 4515-S underlay.
25mm plywood flooring.
19mm plywood flooring.
25mm plywood flooring.
250mm steel beams. intumescent paint finish.
200mm steel floor joists. Intumescent paint finish.
100mm acoustic absorption.
Furring channels.
13mm fire rated plasterboard.
13mm fire rated plasterboard. Paint finish.
Assembly to achieve 60/60/60 FRL.
Fire rated penetrations.

COMMERCIAL 1 TECH BALCONY/OFFICE
Assembly to achieve 60/60/60 FRL.

MEZZANINE

FLOOR TYPE 13

CTF Ceramic tiles on bedding to falls.
Waterproof membrane.
25mm compressed fibre cement sheeting.
250mm steel beams. intumescent paint finish.
200mm steel floor joists. Intumescent paint finish.
100mm acoustic absorption.
Furring channels.
13mm fire rated plasterboard.
13mm fire rated plasterboard. Paint finish.
Assembly to achieve 60/60/60 FRL.
Fire rated penetrations.

MEZZANINE AMENITIES/STAFF CHANGE
Assembly to achieve 60/60/60 FRL.

MEZZANINE WET AREAS

GENERAL NOTES:

1. Floor and ceiling types with fire ratings are to comply with the requirements set out in the BCA Report and Fire Engineer's Report.
2. Floor and ceiling types with acoustic ratings are to comply with the requirements set out in the Acoustic Report. All floor and ceiling types to be acoustically sealed. Refer to Acoustic Performance Specification for further requirements. Note floor types denoted as being Acoustically Critical may have additional requirements.
3. For all finishes refer to Finishes Schedule.
4. Cavity depths vary according to ceiling height.
5. Builder to ensure flush transitions between adjacent floor finishes.
6. Refer to Reflected Ceiling Plans for additional finishes to ceilings.

PIER 2/3 LEVEL 1

FLOOR TYPE 14

XTFR Remove existing layer of bitumen shown dashed.
Repair original timber flooring as specified.
Refer A-006 for extent and detail of repairs and caulking.
125 x 50mm nominal existing timber floor boards laid at 45 degrees to the walls.
210 x 75mm nominal existing timber floor sub members.

FOYER
Assembly to achieve 60/60/60 FRL.

LEVEL 1 SHARED

FLOOR TYPE 15

GLF Remove existing layer of bitumen shown dashed.
Bronze angle frame fixed to existing structure. Ensure top edge flush with surrounds.
Top layer antislip surface equal to G James Griplite 6mm low iron glass.
3 x 12mm low iron heat strengthened glass with 1.5mm interlayers.
Setting blocks and structural silicone, factory applied.
Apply a silicone 'smear' to ends of glass to obscure view through glass.
Separately bronze framed lower level fire rated glass.
Refer Structural and Facade documentation.
Ensure complies with relevant structural and safety codes.

FOYER - BRONZE FRAMED GLASS INFILL FLOOR
Assembly to achieve 60/60/60 FRL.

LEVEL 1 SHARED

FLOOR TYPE 16

RF/RFS 2mm resilient flooring.
9mm compressed fibre cement substrate over
Double layer of 0.2mm thick plastic sheet, taped and sealed.
Remove existing layer of bitumen shown dashed.
125 x 50mm nominal existing timber floor boards laid at 45 degrees to the walls.
210 x 75mm nominal existing timber floor sub members.

BAR/BAR STORE/FIRST AID/BABY CHANGE/BOH LIFT/PART ACO RECEPTION
Assembly to achieve 60/60/60 FRL.

LEVEL 1 SHARED

FLOOR TYPE 17

BELL STUDIO + REHEARSAL /ATYP REHEARSAL + THEATRE STAGE

TF04 6.4mm masonite hardboard. Paint finish.
2 layers of 18mm CD grade plywood laid in opposite directions with staggered joints.
10mm neoprene pads at 300mm centres.
18mm CD grade plywood.
50mm Kinetics RIM system (KIP vibration isolation mounts + 50mm acoustic absorption) or equivalent.
100mm thick light weight concrete (min 1350kg/m3) slab cast on a double layer of 0.2mm thick plastic concrete underlay to engineers details. Sawn joints at 3m x 3m centres.
Remove existing layer of bitumen shown dashed.
125 x 50mm nominal existing timber floor boards laid at 45 degrees to the walls.
210 x 75mm nominal existing timber floor sub members.

Assembly to achieve 60/60/60 FRL.
Acoustically critical

LEVEL 1 BELL/ATYP

FLOOR TYPE 18

SEATING PLATFORM
PLENUM
2 layers of 18mm plywood with staggered joints.
50mm acoustic absorption.
50mm timber battens.
STAGE

CPT03 Carpet.
3 x 18mm CD grade plywood flooring laid in opposite directions with staggered joints.
70x30mm nom curved hardwood edge strip to seating platform leading edge.
19mm vertical timber boards to front face.
Recycled Grey Ironbark. Clear finish.
2 layers of 18mm plywood, cross laid with taped and sealed staggered joints.
50mm acoustic insulation.
Seating platform structure to Structural Engineer's design on pedestal/column supports down to the concrete slab, (acoustically sealed when passing through plywood layers).
Pedestal column requires integrated rubber isolation pads nom 50mm above plywood layers sized to suit as required.

Assembly to form air tight mechanical plenum.
Fully line with 50mm acoustic absorption.
Stage construction as per Floor Type 18.
50mm Kinetics RIM system (KIP vibration isolation mounts + 50mm acoustic absorption) or equivalent.
100mm thick light weight concrete slab min 1350kg/m3 cast on a double layer of 0.2mm thick plastic concrete underlay to engineers details. Sawn joints at 3m x 3m centres.
Remove existing layer of bitumen shown dashed.
125 x 50mm nominal existing timber floor boards laid at 45 degrees to the walls.
210 x 75mm nominal existing timber floor sub members.

ATYP THEATRE SEATING PLATFORM/PLENUM
Assembly to achieve 60/60/60 FRL.
Acoustically Critical

LEVEL 1 ATYP

FLOOR TYPE 19

ATYP/BELL/PUBLIC LEVEL 1 WET AREAS

CTF Ceramic tiles laid to falls over
40mm epoxy screed to falls.
4.5mm Regupol 4515
Waterproof membrane.
25mm compressed fibre cement sheet substrate.
Timber framing to Code.
Resilient supports for each timber batten - Batten&Cradle AcousiFlor or equivalent.
50mm acoustic absorption.
2 layers x 25mm compressed fibre cement sheeting over double layer of 0.2mm thick plastic sheet taped and sealed.
Remove existing layer of bitumen shown dashed.
125 x 50mm nominal existing timber floor boards laid at 45 degrees to the walls.
210 x 75mm nominal existing timber floor sub members.
Furring channels
100mm acoustic absorption
TBC01 hardwood timber battens to conceal plumbing. PF.
Extent to be minimised and co-ordinated with Architect.
Generally as indicated on RCPs. No insulation required to colonnade.

FOYER/COMMERCIAL 1/COLONNADE
Assembly to achieve 60/60/60 FRL.

LEVEL 1 BELL/ATYP

FLOOR TYPE 20

TF01 19mm hardwood timber floor boards laid over
25mm CD grade plywood
45x80mm timber battens @ 400mm ctrs max with noggings at joints. 70x70mm timber or steel packers of varying heights @600mm max ctrs along batten between top of CFC at varying levels. All timber to be F11 or MGP12 (min).
Max wheel load = 620kg (6.2kN).
Resilient supports for each timber batten - Batten&Cradle AcousiFlor or equivalent. 50mm acoustic absorption.
2 layers x 25mm compressed fibre cement sheeting over double layer of 0.2mm thick plastic sheet taped and sealed.
Remove existing layer of bitumen shown dashed.
125 x 50mm nominal existing timber floor boards laid at 45 degrees to the walls.
210 x 75mm nominal existing timber floor sub members.

ATYP/BELL CORRIDOR
Assembly to achieve 60/60/60 FRL.

LEVEL 1 BELL/ATYP

FLOOR TYPE 21

RF/RFS 2mm resilient flooring.
2 x 25mm CD grade plywood.
Joints to be staggered with an offset of 600mm min.
45x80mm timber battens @ 600mm ctrs max with noggings at joints. 70x70mm timber or steel packers of varying height @600mm ctrs max along batten between batten and top of CFC. All timber to be F11 or MGP12 (min). Max wheel load = 620kg (6.2kN).
Resilient supports for each timber batten - Batten&Cradle AcousiFlor or equivalent. 50mm acoustic absorption.
2 layers x 25mm compressed fibre cement sheeting over double layer of 0.2mm thick plastic sheet taped and sealed.
Remove existing layer of bitumen shown dashed.
125 x 50mm nominal existing timber floor boards laid at 45 degrees to the walls.
210 x 75mm nominal existing timber floor sub members.

ATYP/BELL BACK OF HOUSE
ATYP THEATRE PROPS/DRESSING/GREEN ROOM BELL DRESSING
Assembly to achieve 60/60/60 FRL.

LEVEL 1 BELL/ATYP

FLOOR TYPE 22

22a 22b 22c

22a TF03 19mm timber flooring direct fixed to concrete slab.
22b CPT03 10mm carpet on 10mm underlay.
22c RF03 2mm resilient flooring.
3mm Regupol 4515-S underlay over 15mm plywood.
100mm concrete slab with Mason FSM jack up mounts or equivalent.
50mm airspace with resilient mounts @ 600ctrs + 50mm acoustic absorption to cavity.
200mm concrete slab cast on a double layer of 0.2mm thick plastic concrete underlay to engineers details. Sawn joints at 3m x 3m centres.
Remove existing layer of bitumen shown dashed.
125 x 50mm nominal existing timber floor boards laid at 45 degrees to the walls.
210 x 75mm nominal existing timber floor sub members.

22a ACO AUDITORIUM/REHEARSAL, 22b ACO SOUNDLOCKS, 22c STOREROOMS
Assembly to achieve 60/60/60 FRL.
Acoustically Critical

LEVEL 1 ACO

FLOOR TYPE 23

TF03 19mm timber floor boards.
25mm plywood
75mm buildup compressed fibre cement flooring (3x25mm sheets) with minimum 300mm staggered overlaps.
50mm Kinetics RIM system (KIP vibration isolation mounts)
50mm acoustic absorption in cavity.
75mm thick light weight concrete slab 1350kg/m3 cast on a double layer of 0.2mm thick plastic concrete underlay to engineers details. Sawn joints at 3m x 3m centres.
Remove existing layer of bitumen shown dashed.
125 x 50mm nominal existing timber floor boards laid at 45 degrees to the walls.
210 x 75mm nominal existing timber floor sub members.

ACO PRACTICE ROOMS
Assembly to achieve 60/60/60 FRL.
Acoustically Critical

LEVEL 1 ACO

FLOOR TYPE 24

CTF 10mm ceramic tiles laid over
40mm screed to falls.
Waterproof membrane.
25mm compressed fibre cement sheet substrate taped and sealed.
120mm nom timber framing to Code.
Resilient supports for each timber batten - Batten&Cradle AcousiFlor or equivalent. 50mm acoustic absorption.
2 layers x 25mm compressed fibre cement sheeting over double layer of 0.2mm thick plastic sheet taped and sealed.
Stagger joints min 300mm.
Remove existing layer of bitumen shown dashed.
125 x 50mm nominal existing timber floor boards laid at 45 degrees to the walls.
210 x 75mm nominal existing timber floor sub members.

ACO LEVEL 1 WET AREAS
Assembly to achieve 60/60/60 FRL.

LEVEL 1 ACO

FLOOR TYPE 25

EF02 Epoxy Floor Finish
6mm Hychem Hycrete PU
(incl. self levelling and top coat SL + TC)
nom 40mm Hyclad GP epoxy screen laid to falls
Hyclad E membrane over
25mm compressed fibre cement sheet substrate taped and sealed.
120mm nom timber framing to Code.
Resilient supports for each timber batten - Batten&Cradle AcousiFlor or equivalent. 50mm acoustic absorption.
2 layers x 25mm compressed fibre cement sheeting over double layer of 0.2mm thick plastic sheet taped and sealed.
Stagger joints min 300mm.
Remove existing layer of bitumen shown dashed.
125 x 50mm nominal existing timber floor boards laid at 45 degrees to the walls.
210 x 75mm nominal existing timber floor sub members.

ACO LEVEL 1 KITCHEN
Assembly to achieve 60/60/60 FRL.

LEVEL 1 ACO

FLOOR TYPE 26

TF01 19mm timber floor boards.
25mm plywood
45x90mm timber battens @ 400mm ctrs max with noggings at joints. 70x70mm timber or steel packers of varying heights @600mm max ctrs along batten between top of CFC at varying levels. All timber to be F11 or MGP12 (min).
Max wheel load = 620kg (6.2kN).
Resilient supports for each timber batten - Batten&Cradle AcousiFlor or equivalent. 100mm acoustic absorption.
2 layers x 25mm compressed fibre cement sheeting over double layer of 0.2mm thick plastic sheet taped and sealed.
Stagger joints min 300mm.
Remove existing layer of bitumen shown dashed.
125 x 50mm nominal existing timber floor boards laid at 45 degrees to the walls.
210 x 75mm nominal existing timber floor sub members.

ACO FUNCTION ROOM, ACO CORRIDOR
Assembly to achieve 60/60/60 FRL.

LEVEL 1 ACO

FLOOR TYPE 27

RF/RFS 2mm resilient flooring.
2 x 25mm CD grade plywood.
Joints to be staggered with an offset of 600mm min.
45x90mm timber battens @ 600mm ctrs max with noggings at joints. 70x70mm timber or steel packers of varying height @600mm ctrs max along batten between batten and top of CFC. All timber to be F11 or MGP12 (min).
Max wheel load = 620kg (6.2kN).
Resilient supports for each timber batten - Batten&Cradle AcousiFlor or equivalent. 50mm acoustic absorption.
2 layers x 25mm compressed fibre cement sheeting over double layer of 0.2mm thick plastic sheet taped and sealed. Stagger joints min 300mm.
Remove existing layer of bitumen shown dashed.
125 x 50mm nominal existing timber floor boards laid at 45 degrees to the walls.
210 x 75mm nominal existing timber floor sub members.

ACO BACK OF HOUSE/DRESSING
Assembly to achieve 60/60/60 FRL.

LEVEL 1 ACO

PIER 2/3 LEVEL 1

PIER 2/3 LEVEL 2

FLOOR TYPE 28

ACO Upper level Office
Practice Room

CPT01 Carpet and underlay.
25mm CD grade plywood flooring.
200mm steel floor joists (200UB18).
250mm steel beams. Paint finish.
Resilient mounts.
Furring channels.
100mm acoustic absorption.
13mm fire rated plasterboard.
13mm fire rated plasterboard.
13mm Soundcheck plasterboard. Paint finish.
APC06 Acoustic ceiling panels. 7mm 'bendy' plywood with Queensland Maple veneer to visible face. French polish finish. Plywood to be be curved to match architectural drawings. Stiffness to be in accordance with acoustic requirements. Depth varies - refer details.
100mm acoustic absorption behind.
Assembly to achieve 60/60/60 FRL.
Fire rated penetrations.

ACO OFFICES UPPER LEVEL/PRACTICE ROOMS
Assembly to achieve 60/60/60 FRL.
Acoustically critical

LEVEL 2 ACO

FLOOR TYPE 29

RF 2mm resilient flooring on 3mm Regupol 4515S underlay.
19mm CD grade plywood cross laid over
25mm CD grade plywood flooring.
200mm steel floor joists (200UB18).
250mm steel beams. Paint finish.
Furring channels.
100mm acoustic absorption.
13mm fire rated plasterboard.
13mm fire rated plasterboard. Paint finish.
Assembly to achieve 60/60/60 FRL.
Fire rated penetrations.
Allow 15-20mm min for beam deflection.

ATYP /BELL/ACO BACK OF HOUSE
Assembly to achieve 60/60/60 FRL.

LEVEL 2 BELL/ATYP

FLOOR TYPE 30

TF01 19mm timber flooring.
25mm CD grade plywood flooring glued to 5mm Embelton Impactomat (or equivalent) laid continuously over tops of beams, glued to beams below.
200mm steel floor joists (200UB18).
250mm steel beams. Paint finish.
Furring channels.
100mm acoustic absorption.
13mm fire rated plasterboard.
13mm fire rated plasterboard. Paint finish.
Assembly to achieve 60/60/60 FRL.
Fire rated penetrations.
Allow 15-20mm min for beam deflection.

ATYP /BELL BACK OF HOUSE/FOYER/ACO LOWER OFFICE
Assembly to achieve 60/60/60 FRL.

LEVEL 2 BELL/ATYP

FLOOR TYPE 31

CTF Ceramic tiles on epoxy bedding to falls.
4.5mm Regupol 4515 underlay.
Waterproof membrane.
25mm compressed fibre cement sheeting.
200mm steel floor joists (200UB18).
250mm steel beams. Paint finish.
Furring channels.
100mm acoustic absorption.
13mm fire rated plasterboard.
13mm fire rated plasterboard. Paint finish.
Assembly to achieve 60/60/60 FRL.
Fire rated penetrations.
Allow 15-20mm min for beam deflection.

AMENITIES/STAFF CHANGE
Assembly to achieve 60/60/60 FRL.

LEVEL 2 WET AREAS

FLOOR TYPE 32

TF01 19mm timber flooring.
25mm CD grade plywood cross laid over
25mm CD grade plywood flooring glued to 5mm Embelton Impactomat (or equivalent) laid continuously over tops of beams, glued to beams below.
200mm steel floor joists (200UB18).
250mm steel beams. Paint finish.
Furring channels with resilient mounts.
Refer Acoustic requirements.
100mm acoustic absorption.
13mm fire rated plasterboard.
13mm fire rated plasterboard. Paint finish.
Assembly to achieve 60/60/60 FRL.
Fire rated penetrations.
Allow 15-20mm min for beam deflection.

ATYP FOYER
Assembly to achieve 60/60/60 FRL.
Acoustically Critical

LEVEL 2 ATYP FOYER

FLOOR TYPE 33

CPT02 Carpet and underlay
5 mm plywood
25mm CD grade plywood cross laid over
25mm CD grade plywood flooring.
200mm steel floor joists (200UB18).
250mm steel beams. Paint finish.
Furring channels with resilient mounts.
Refer Acoustic requirements.
100mm acoustic absorption.
13mm fire rated plasterboard.
13mm fire rated plasterboard. Paint finish.
Assembly to achieve 60/60/60 FRL.
Fire rated penetrations.
Allow 15-20mm min for beam deflection.

ATYP CONTROL ROOM
Assembly to achieve 60/60/60 FRL.
Acoustically Critical

LEVEL 2 ATYP CONTROL RM

PIER 2/3 LEVEL 3

FLOOR TYPE 34

Bell/ATYP Plant
Bell/ATYP Rehearsal

CFC 50mm buildup of compressed fibre cement sheet flooring.
200mm steel floor joists (200UB18).
250mm steel beams. Paint finish.
Resilient mounts.
Furring channels.
100mm acoustic absorption.
13mm fire rated plasterboard.
13mm fire rated plasterboard.
13mm Soundcheck plasterboard. Paint finish.
100mm acoustic ceiling panels to detail.
Assembly to achieve 60/60/60 FRL.
Fire rated penetrations.

PLANT/ATYP + BELL REHEARSAL
Assembly to achieve 60/60/60 FRL.
Acoustically Critical

LEVEL 3 ATYP/BELL REHEARSAL

FLOOR TYPE 35

ACO Plant
Internal acoustic ceiling treatment to future detail
ACO Rehearsal

CFC 50mm buildup of compressed fibre cement sheet flooring.
200mm steel floor joists (200UB18).
250mm steel beams. Paint finish.
Resilient mounts.
Furring channels.
100mm acoustic absorption.
13mm fire rated plasterboard.
13mm fire rated plasterboard.
13mm Soundcheck plasterboard. Paint finish.
Acoustic ceiling panels to future detail. Nom 100mm.
Assembly to achieve 60/60/60 FRL.
Fire rated penetrations.

PLANT/ACO REHEARSAL
Assembly to achieve 60/60/60 FRL.
Acoustically Critical

LEVEL 3 ACO REHEARSAL

FLOOR TYPE 36

Plant Room

CFC 50mm buildup of compressed fibre cement sheet flooring.
200mm steel floor joists (200UB18).
250mm steel beams. Paint finish.
Resilient mounts.
Furring channels.
100mm acoustic absorption.
13mm fire rated plasterboard.
13mm fire rated plasterboard.
13mm Soundcheck plasterboard. Paint finish.
Assembly to achieve 60/60/60 FRL.
Fire rated penetrations.

PLANT/GENERAL SPACES
Assembly to achieve 60/60/60 FRL.
Acoustically Critical

LEVEL 3 GENERAL SPACES

FLOOR TYPE 37

Catwalk

RF 4mm resilient flooring over
3mm Regupol 4515 S underlay
6mm Steel solid plate flooring to Structural Engineer's documentation. (No perforations)
Steel plate/kick plate to edge with tension wire grid system

ATYP CATWALK

LEVEL 3 ATYP THEATRE

FLOOR TYPE 38

RF 4mm resilient flooring over
3mm Regupol 4515 S underlay
6mm solid steel plate flooring to Structural Engineer's documentation. (No perforations)
200mm steel floor joists (200UB18).
250mm steel beams. Paint finish.
Furring channels.
100mm acoustic absorption.
13mm fire rated plasterboard.
13mm fire rated plasterboard. Paint finish.
Assembly to achieve 60/60/60 FRL.
Fire rated penetrations.
Allow 15mm min for beam deflection.

ATYP CATWALK ABOVE RACK ROOM, TECH STORE & CONTROL ROOM
SOUND LOCKS
APC01 25mm acoustic absorption to Sound Locks

LEVEL 3 ATYP THEATRE

WHARF 4/5 & SHORE SHEDS GROUND LEVEL

FLOOR TYPE 39

XTFR Remove existing bitumen topping.
Repair original timber floor as specified. Caulk and fill gaps between floorboards to meet DDA requirements, particularly in acoustically sensitive areas to Heritage Architect's approval. Refer A-006 for extent and detail of required repairs and caulking.

GROUND — BANGARRA FOYER/FUNCTION ROOM/CHOIRS OFFICES

FLOOR TYPE 40

EF02 Epoxy Floor Finish
6mm Hychem Hycrete PU
(incl. self levelling and top coat SL + TC)
4.5mm Regupol 4515
nom 35mm Hyclad GP epoxy screen laid to falls
Hyclad E membrane over
2 layers of 9mm CFC cross laid, taped and sealed.
Double layer of 0.2mm thick plastic sheet taped and sealed to protect original timber floor.
Remove layer of bitumen + 50mm thick timber boards locally.
Salvage and store timber. Protect original timber base layer.
Existing timber floor base layer retained insitu.

GROUND — BANGARRA FUNCTION KITCHEN — Coolroom similar Floor Type 08 flush with adjacent floor.

FLOOR TYPE 41

Note: Additional support required when retractable seating located above. Refer to individual room details.

RF05 4.5mm Harlequin vinyl flooring
37mm Harlequin Liberty sprung floor panel system
19mm plywood over double layer of 0.2mm thick plastic sheet taped and sealed to protect original timber floor.
Remove existing layer of bitumen.
125 x 50mm nominal existing timber floor boards laid at 45 degrees to the walls.
210 x 75mm nominal existing timber floor sub members.

GROUND — BANGARRA STUDIOS 1, 3a and 3b. STUDIO 2/GYM replace top layer of vinyl only.

FLOOR TYPE 42

CTF Ceramic tiles laid on bedding to falls.
Waterproof membrane.
9mm compressed fibre cement sheet substrate over double layer of 0.2mm thick plastic sheet taped and sealed to protect original timber floor.
Remove existing layer of bitumen and 50mm thick timber boards locally.
Salvage and store timber.
Protect original timber base layer.
Existing timber floor base layer retained insitu.

GROUND — WET AREAS - AMENITIES, CLEANER & DRESSING ROOMS

FLOOR TYPE 43

RF 2mm resilient flooring.
3mm Regupol 4515-S underlay over double layer of 0.2mm thick plastic sheet taped and sealed to protect original timber floor.
Remove existing finish, if any.
Existing bitumen.
Existing timber floor and substructure.

GROUND — BANGARRA GREEN ROOM, TREATMENT ROOM, STORE, CONCIERGE, CORRIDOR & COSTUME WORKSHOP

FLOOR TYPE 44

CTF Ceramic tiles laid on bedding to falls.
Waterproof membrane.
9mm compressed fibre cement sheet substrate over double layer of 0.2mm thick plastic sheet taped and sealed to protect original timber floor.
Remove existing layer of bitumen and 50mm thick timber boards locally.
Salvage and store timber.
Protect original timber base layer.
Existing timber floor base layer retained insitu.

GROUND — WET AREAS - ACCESSIBLE AMENITIES

FLOOR TYPE 45

RF06 3mm Harlequin vinyl 'Studio' flooring on
37mm Harlequin Liberty sprung floor panel system
19mm plywood over double layer of 0.2mm thick plastic sheet, taped and sealed to protect original timber floor.
125 x 50mm nominal existing timber floor boards laid at 45 degrees to the walls.
210 x 75mm nominal existing timber floor sub members.

Note: Additional support required when retractable seating located above. Refer to individual room details.

GROUND — SYDNEY DANCE COMPANY STUDIO 5

FLOOR TYPE 46

TF04 6.4mm masonite hardboard. Paint finish.
19mm plywood laid on
10mm thick Regupol 6010 over
24mm CD grade plywood with taped joints.
Double layer of 0.2mm thick plastic sheet taped and sealed to protect original timber floor.
Existing timber floor repaired as specified.

GROUND — SYDNEY DANCE COMPANY PRODUCTION WORKSHOP

FLOOR TYPE 47

TF02 19mm timber flooring.
25mm CD grade plywood flooring.
6mm 6015 6/3 Regupol" or equivalent
Double layer of 0.2mm thick plastic sheet taped and sealed to protect original timber floor.
Existing timber floor repaired as specified.

GROUND — CHOIRS/PRECINCT OFFICE

WHARF 4/5 & SHORE SHEDS MEZZANINE

FLOOR TYPE 48

TF02 19mm timber flooring.
25mm CD grade plywood flooring glued to 5mm Embelton Impactomat (or equivalent) laid continuously over tops of beams, glued to beams below.
250mm steel beams. Intumescent paint finish.
200mm steel floor joists. Intumescent paint finish.
100mm acoustic absorption.
Furring channels.
13mm fire rated plasterboard.
13mm fire rated plasterboard. Paint finish.
Assembly to achieve 60/60/60 FRL.
Fire rated penetrations.

Note
Western side of Bangarra to have locally raised ceiling as shown above to align with head of doors and windows in facade.

MEZZANINE BANGARRA — Assembly to achieve 60/60/60 FRL.

FLOOR TYPE 49

Align with adjacent floor level

CTF Ceramic tiles on bedding to falls.
Waterproof membrane.
25mm compressed fibre cement sheeting.
250mm steel beams. intumescent paint finish.
200mm steel floor joists. Intumescent paint finish.
100mm acoustic absorption.
Furring channels.
13mm fire rated plasterboard.
13mm fire rated plasterboard. Paint finish.
Assembly to achieve 60/60/60 FRL.
Fire rated penetrations.

MEZZANINE BANGARRA — Assembly to achieve 60/60/60 FRL.

FLOOR TYPE 50

CPT01 Carpet on underlay.
25mm CD grade plywood flooring.
250mm steel beams. intumescent paint finish.
200mm steel floor joists. Intumescent paint finish.
100mm acoustic absorption.
Furring channels.
13mm fire rated plasterboard.
13mm fire rated plasterboard. Paint finish.
Assembly to achieve 60/60/60 FRL.
Fire rated penetrations.

MEZZANINE BANGARRA/CHOIRS — Assembly to achieve 60/60/60 FRL.

FLOOR TYPE 51

RF/RFS 2mm resilient flooring.
3mm Regupol 4515-S underlay
25mm + 12mm CD grade plywood flooring.
250mm steel beams. intumescent paint finish.
200mm steel floor joists. Intumescent paint finish.
100mm acoustic absorption.
Furring channels.
13mm fire rated plasterboard.
13mm fire rated plasterboard. Paint finish.
Assembly to achieve 60/60/60 FRL.
Fire rated penetrations.

MEZZANINE BANGARRA — Assembly to achieve 60/60/60 FRL.

WHARF 4/5 + SHORE SHEDS MEZZANINE BANGARRA/CHOIRS

FLOOR TYPE 52

RF/RFS 2mm resilient flooring.
3mm Regupol 4515-S underlay
25mm + 12mm CD grade plywood flooring.
310mm steel beams. Intumescent paint finish.
200mm steel floor joists. Intumescent paint finish.
100mm acoustic absorption.
Furring channels.
13mm fire rated plasterboard.
13mm fire rated plasterboard. Paint finish.
Assembly to achieve 60/60/60 FRL.
Fire rated penetrations.

WORKSHOP MEZZANINE
Assembly to achieve 60/60/60 FRL.

MEZZANINE SDC

FLOOR TYPE 53

RF/RFS 2mm resilient flooring.
3mm Regupol 4515-S underlay
25mm + 12mm CD grade plywood flooring.
160mm timber floor joists to match existing.
250mm steel beams. intumescent paint finish.
200mm steel floor joists. Intumescent paint finish.
100mm acoustic absorption.
Furring channels.
13mm fire rated plasterboard.
13mm fire rated plasterboard. Paint finish.
Assembly to achieve 60/60/60 FRL.
Fire rated penetrations.

MEZZANINE SDC — Assembly to achieve 60/60/60 FRL.

FLOOR TYPE 54

CPT01 Carpet on underlay.
25mm CD grade plywood flooring.
160mm timber floor joists to match existing.
250mm steel beams. intumescent paint finish.
200mm steel floor joists. Intumescent paint finish.
100mm acoustic absorption.
Furring channels.
13mm fire rated plasterboard.
13mm fire rated plasterboard. Paint finish.
Assembly to achieve 60/60/60 FRL.
Fire rated penetrations.

MEZZANINE SDC — Assembly to achieve 60/60/60 FRL.

FLOOR/CEILING TYPE 55

Level 1 - Refer STC50 documentation for build up of new floor over.

Refer STC50 documentation for extent of caulking of floor, floor repairs and new floor buildups.
Fully vacuum floor and ceiling prior to any new work.
Refer A-006 for detail of required repairs and caulking where no new floor over.
Ceiling system supported on spring hangers between existing timber beams. Refer Acoustic documentation.
Nom 200mm cavity with 50mm acoustic quilt insulation laid in the cavity.
3 layers of 13mm fire rated plasterboard with resilient perimeter detail. Paint finish.
Assembly to achieve 60/60/60 FRL.
Fire rated penetrations.

LOCATION: SHORE SHEDS - CHOIRS REHEARSAL LARGE & MUSIC LIBRARY. WHARF 4/5 STUDIO 5.
Assembly to achieve 60/60/60 FRL.

FLOOR/CEILING TYPE 56

Level 1 - STC

Refer STC50 documentation for extent of caulking of floor, floor repairs and new floor buildups.
Fully vacuum floor and ceiling prior to any new work.
Refer A-006 for detail of required repairs and caulking where no new floor over.
Fire rated caulking to joints between timber applied from the underside. Colour to be approved.

LONG SECTION — CROSS SECTION

LOCATION: WHARF 4/5 LONG WALK + BAR AT THE END OF THE WHARF
SDC/CHOIRS/BANGARRA FOYER EASTERN SIDE + NORTHERN FUNCTION SPACE
Assembly to achieve 60/60/60 FRL.

FLOOR/CEILING TYPE 57

Level 1 - Refer STC50 documentation for build up of new floor over.

Refer STC50 documentation for extent of caulking of floor, floor repairs and new floor buildups.
Fully vacuum floor and ceiling prior to any new work.
Refer A-006 for detail of required repairs and caulking where no new floor over.
Ceiling system supported on spring hangers between existing timber beams. Refer Acoustic documentation.
Nom 200mm cavity with 50mm acoustic quilt insulation laid in the cavity.
3 layers of 13mm fire rated plasterboard with resilient perimeter detail. Paint finish.
Set minimum 10mm below existing timber beams.
Assembly to achieve 60/60/60 FRL.
Fire rated penetrations.

LONG SECTION — CROSS SECTION

LOCATION: SHORE SHEDS - CHOIRS SECTIONAL 2
Assembly to achieve 60/60/60 FRL.

REFER TO DRAWING A-006 FOR EXTENT OF INTERNAL FLOOR TYPES

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- Not part of scope or site area
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- To be demolished

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PROJECT NO : 16005

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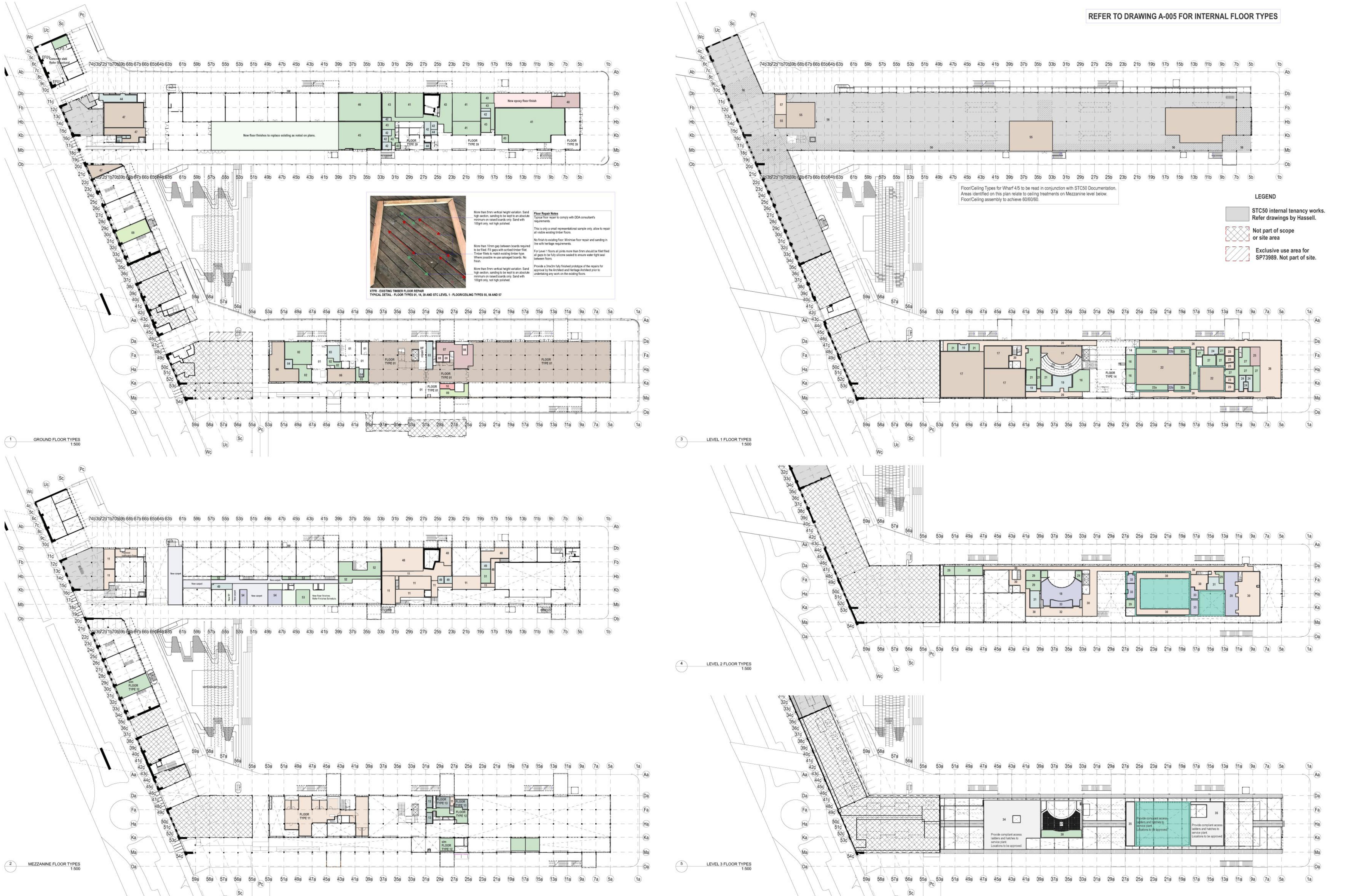
DRAWING TITLE: INTERNAL FLOOR/CEILING TYPES
DRAWN BY: JM/JH/GM/KL/SB HCW/ABN/DT/BS
CHECKED: PT
SCALES: 1:10, 1:100@A0
DATE: 26/05/2017
PHASE: FOR INFORMATION
DRAWING NO: A-005
REV: A

Plot date:26/05/2017 File: #File Path



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PROJECT NO: 16005

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DRAWING TITLE	INTERNAL FLOOR/CEILING TYPE DIAGRAMS
DRAWN BY	JM/JH/GM/KL/SB HCW/ABN/DT/BS
CHECKED	PT
SCALES	1:500, 1:100@A0
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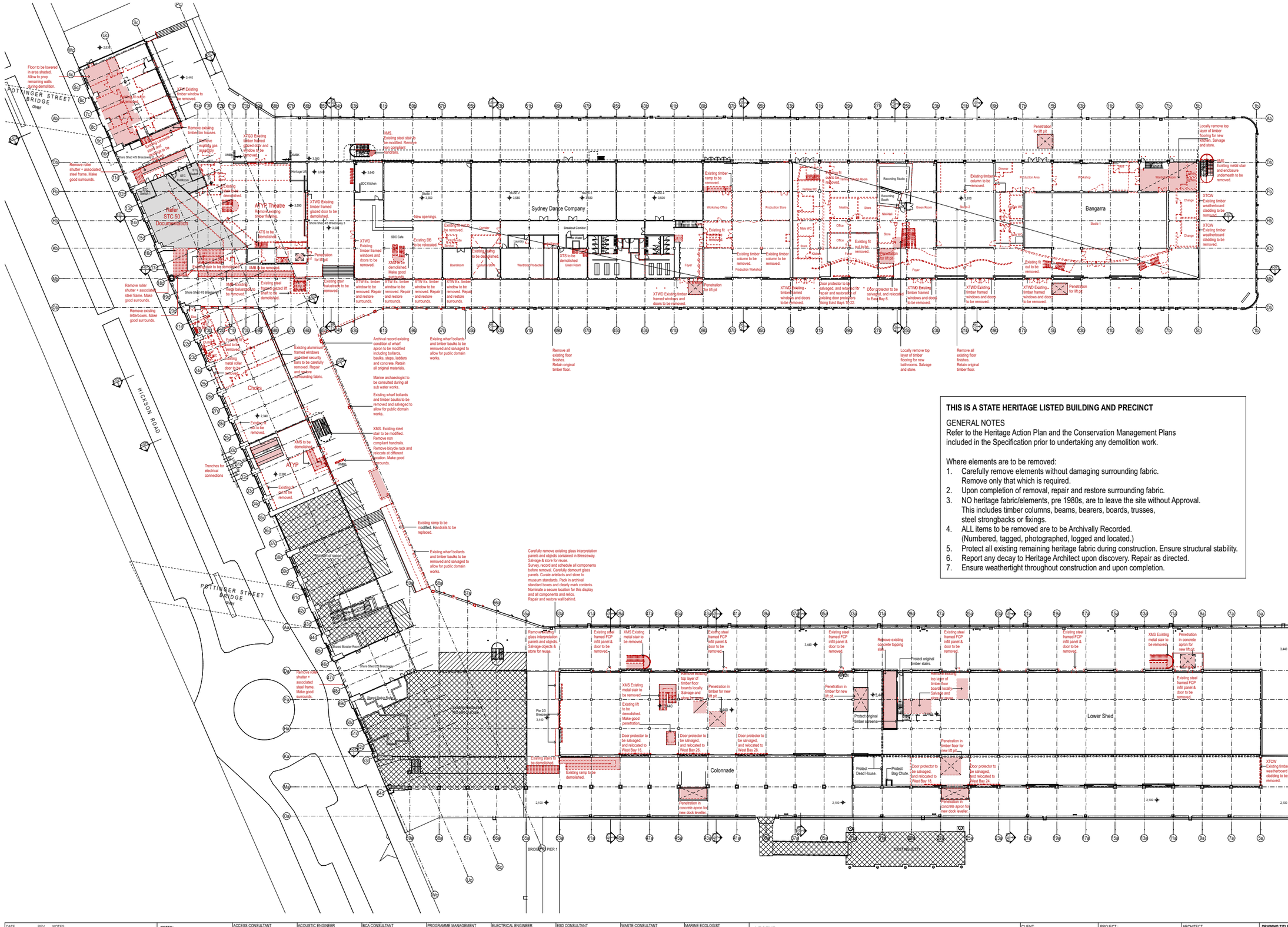
DRAWING NO	A-006
REV	A

Plot date:26/05/2017 File: #File Path



THIS IS A STATE HERITAGE LISTED BUILDING AND PRECINCT

GENERAL NOTES
Refer to the Heritage Action Plan and the Conservation Management Plans included in the Specification prior to undertaking any demolition work.

Where elements are to be removed:
1. Carefully remove elements without damaging surrounding fabric. Remove only that which is required.
2. Upon completion of removal, repair and restore surrounding fabric.
3. NO heritage fabric/elements, pre 1980s, are to leave the site without Approval. This includes timber columns, beams, bearers, boards, trusses, steel strongbacks or fixings.
4. ALL items to be removed are to be Archivally Recorded. (Numbered, tagged, photographed, logged and located.)
5. Protect all existing remaining heritage fabric during construction. Ensure structural stability.
6. Report any decay to Heritage Architect upon discovery. Repair as directed.
7. Ensure weathertight throughout construction and upon completion.

DATE REV NOTES:

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DRAWING TITLE
GROUND FLOOR DEMOLITION PLAN

SCALES 1:250@A0

PHASE FOR INFORMATION

DRAWING NO **A-050**

DRAWN BY JM/JH/GM/KL/SB HC/WA/BN/DT/BS

CHECKED PT

DATE 26/05/2017

REV **A**

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