**Key**
****PRINT IN COLOUR FOR CLARITY****

New insulation as NBS P10 and drawings 3300-3301. Relay salvaged slate roof covering as NBS H62.

New traditional code 7 lead roof with wood-core rolled joints, ventilated at eaves and ridge. Allow for complete strip-back of existing substrate to existing rafters. Refer to NBS H71, drawings 3300 and 3301 for details. Insulation as NBS P10, drawings 3300 and 3301. Renew lead flashing at intersections with M&E protruding through roof covering.

New traditional lead edge gutter as NBS H71/209

New Sika Decothane Ultra 25 gutter lining as J31. Allow for new overflow to all hoppers by coring hole and lead line with new lead spitter.

New Sika Decothane Ultra 25 roof covering as J31 with integrated non-slip aggregate to walkways

New standing seam zinc roof as NBS H74. Refer to drawings 3307 and 3308.

New proprietary zinc gutter as NBS J31, H74 and R10. Allow for two outlets per gutter run: one at each end with pipe shoe fitted. The area where water discharges should be protected with a tile, slab or otherwise be reinforced to provide an extra wearing surface..

direction of roof falls (high point to low point)

roof slope boundary

**Specialist Design**

**Lightening Conductor Design**

Existing lightening conductor tape spans across the surface of roof slope 01 & 22 to be carefully removed and replaced with new to specialist design. Refer to roof finish manufacturers' specialist details.

**Fall Arrest System Design**

Fall Arrest support spans across the surface of roof slope 22 to specialist design. Refer to zinc roof finish manufacturers' specialist standing seam fixing clamp ( S-5-E) details.

**proposed u-Values** (as supplied by Ty Mawr, based on build-up as highlighted in detail drawing 3300--3308 and NBS)

**Roof 01 (new lead cover to flat roof, [pitched slate cheeks to remain as existing]) = 0.21 W/m2k**
**Roof 22 ('mansard'-type roof: new zinc cover to pitched cheeks) = 0.2 W/m2k**
**Roof 22 ('mansard'-type roof: new zinc cover to flat top) = 0.24 W/m2k**

**NOTE**

**All to be read in conjuction with plans, details and NBS specification.**

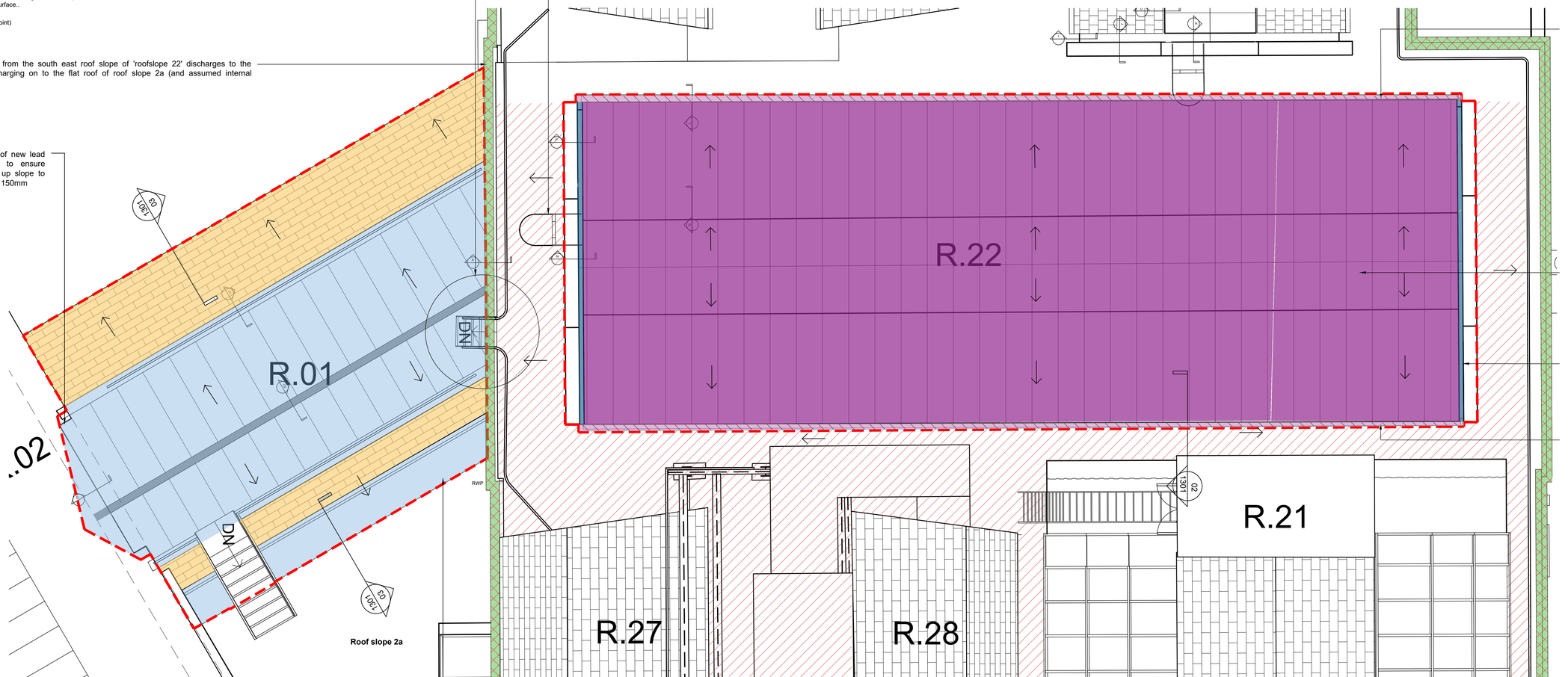
**Refer to M&E and SE drawing and specification for further information.**

remove existing ladder and reinstate approx. 500mm to the east to avoid new lead ridge, allow for associated adjustment of ladder height and making good of railing to sides

Ladder fixed to gable to be inspected, repaired and redecorated.

Realign box gutter so that rain water from the south east roof slope of 'roofslope 22' discharges to the rainwater down pipe rather than discharging on to the flat roof of roof slope 2a (and assumed internal downpipes).

New lead flashing detail to abutment of new lead roof to existing pitched slate roof to ensure prevention of water ingress, lap lead up slope to tilting fillet creating upstand of minimum 150mm




Roof slope 2a

New zinc gutter to full length of east and west elevation of Roof slope 22. Refer to NBS H74 and R10. Downpipes at each end to discharge rainwater via shoe beside each corner of the building rather than moving across the surface of the roof covering below.

allow for new fall-arrest system to top of zinc roof slope to support future maintenance to specialist contractor design

New lead gutter between existing parapet and pitched slate roofs to ensure an appropriate level of insulation and ventilation can be installed without compromising the lead flashing detail.

New zinc gutter to full length of east and west elevation of Roof slope 22. Refer to NBS H74 and R10. Downpipes at each end to discharge rainwater via shoe beside each corner of the building rather than moving across the surface of the roof covering below.

Lead roof to new configuration. Omit existing step within lead roof slope. Exact design to be agreed once the existing covering is removed.

**1 - Roofslope 01 & 22 - Roof Plan as Proposed**
Scale 1:50 @ A1

** for details of roofs 21, 27, 28 refer to drawings 2232 and 2233

** for details of roofs 21, 27, 28 refer to drawings 2232 and 2233

N

0 0.5 1 2.5
Scale 1:50 m

Notes

1. Any dwg format drawing is to be read in conjunction with and at the scale of the accompanying pdf.
2. Where colours other than black or grey are used, the drawing must be plotted in colour.
3. For status 'C' (Construction) drawings all dimensions are to be checked on site by the contractor, scaling is for Local Authority purposes only.
4. Unless otherwise indicated, all dimensions are in millimeters.
5. All information on this drawing is to be read in conjunction with the relevant Donald Insall Associates specification and trade contractors' drawings and information by specialists.
6. In the event of any discrepancy, please contact us immediately.
7. This drawing may contain survey information by others and is to be used solely for the purposes for which it was issued.
8. These are uncontrolled documents issued for information purposes only. If you have any queries regarding the drawings, please contact DIA immediately.
9. Please note DIA cannot be held responsible for any errors arising from changes made to an uncontrolled dwg file.

© 2017 DONALD INSALL ASSOCIATES LTD

Drawing Status
**F** Feasibility
**S** Sketch Design
**P** Planning
**B** Building Control
**D** Developed Design
**M** Measurement
**T** Tender
**C** Construction
**R** Record

| Rev | Date | Dwn | Auth | Revision |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| 9 | 15-10-2 | FXS | MTO | gutter lining added, zinc gutter annotations and key updated |

| Rev | Date | Dwn | Auth | Revision |
|---|---|---|---|---|
| 8 | 17-09-2 | FXS | MTO | u-values added, annotations and NBS references updated |
| 7 | 04-09-2 | FXS | MTO | annotations amended |
| 6 | 27-08-2 | FXS | MTO | roof 22 amended to zinc only |
| 5 | 21-08-2 | FXS | MTO | for stage 4 costing and coordination |
| 4 | 24-06-20 | HXD | EJ | Amended to suit survey information |
| 3 | 03-06-20 | HXD | EJ | Annotation updated |
| 2 | 01-05-20 | HXD | EJ | Designs and Annotation updated |
| 1 | 22-04-20 | HXD | EJ | Lineweights amended |
| 0 | 09-04-20 | EJ | EJ | Initial Issue |

**Donald Insall Associates**
Chartered Architects and Historic Building Consultants

Y Becws, Pool Lane
Conwy LL32 8PZ
(+44) 01492 592 378
conwy@insall-architects.co.uk

Walker Art Gallery, Liverpool

Roofslope 01 & 22
Roof Plan As Proposed

| Project | No |
|---|---|
| WAGL.01 | 2231 |
| Scale (A1) | Status / Revision |
| 1:50 | D / 9 |