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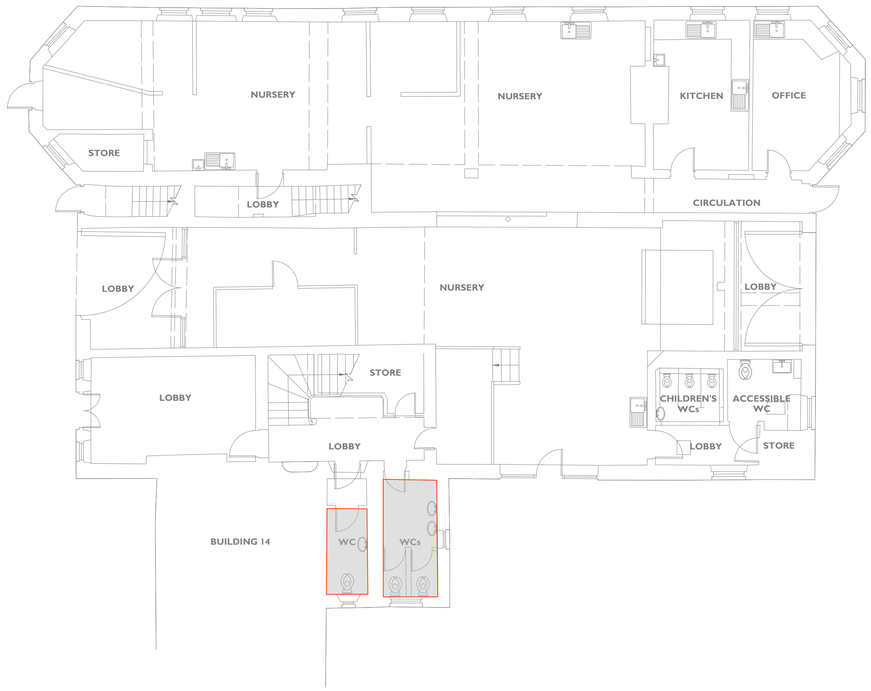

LEGEND

SVP - SOIL VENT PIPE
WVP - WASTE VENT PIPE
WP - WASTE PIPE
AAV - AIR ADMITTANCE VALVE
RE - RODDING EYE

EXISTING ABOVE GROUND DRAINAGE PIPEWORK, FITTINGS, BRACKETS, FIXINGS AND ANCILLARY ITEMS TO BE DECOMMISSIONED AND STRIPPED BACK TO THE CONNECTION TO BELOW GROUND DRAINAGE SYSTEM. WHERE EXISTING CONNECTIONS ARE TO NOT BE UTILISED AS PART OF THE NEW INSTALLATION, THE CONNECTIONS ARE TO BE SUITABLY SEALED AND CAPPED.

NOTES

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4. PIPEWORK SHALL BE ADEQUATELY SUPPORTED IN THE RUNNING LENGTH USING PROPRIETARY CLIPS, BRACKETS & SUPPORT SYSTEMS.
5. PIPELINES PASSING THROUGH A FIRE RATED ELEMENT OF CONSTRUCTION SHALL INCLUDE A SUITABLY RATED FIRE COLLAR.
6. RODDING ACCESS POINTS SHALL BE PROVIDED IN VERTICAL PIPEWORK AT GROUND LEVEL AND EVERY 3RD STOREY. LOCATED 1500mm ABOVE FFL.
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REV	DATE	DESCRIPTION	DRAWN	APP
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P03	25.08.23	STAGE 4 REVIEW	BM	RE
P02	02.06.23	UPDATED TO ARCHITECTS COMMENTS AND LAYOUTS	LC	RP
P01	31.03.23	PRELIMINARY ISSUE	JW	RE

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Salvus House, Aykley Heads, Durham City. DH1 5TS.
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Project
ELSECAR: FORGING AHEAD

Title
MECHANICAL ENGINEERING SERVICES
EXISTING ABOVE GROUND DRAINAGE SYSTEM
BUILDING 13
GROUND FLOOR

Architect
PURCELL

Client
BARNSLEY MBC

Suitability: Code D2 — Description FOR TENDER

Revision:	Scale:	TGA Proj No:	Stage:
P04	1:100	8193	4

Drawing Reference:
Project-Originator-Zone-Level-Type-Role-Classification-Number
EFAS-TGA-13-00-DR-M-52001

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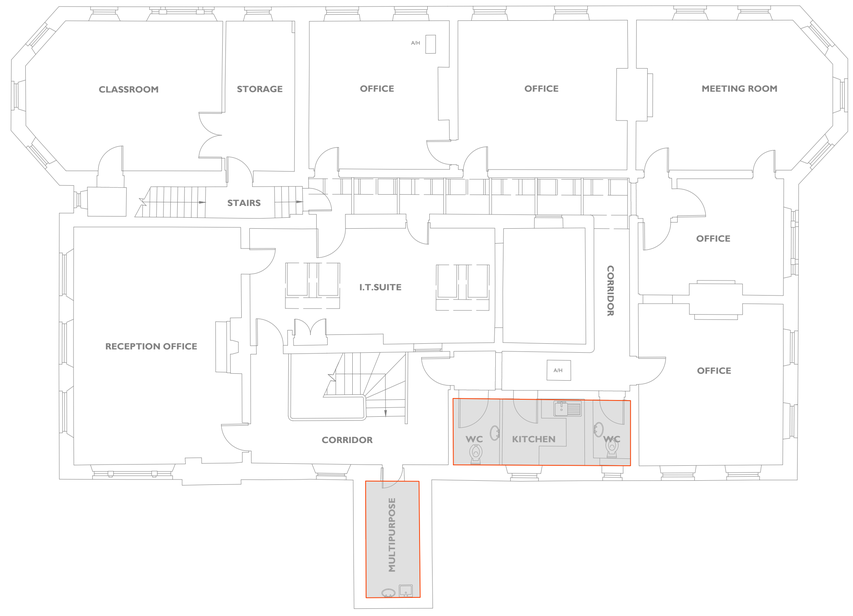

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BUILDING 13
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Architect
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Client
BARNSLEY MBC

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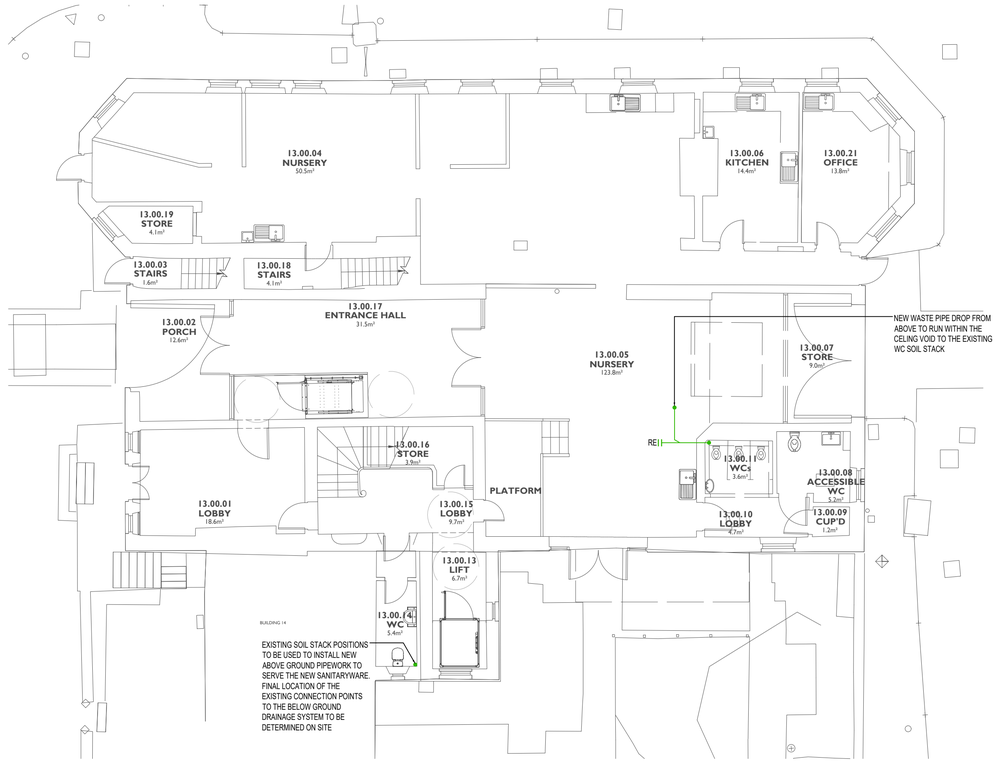

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Project
ELSECAR: FORGING AHEAD

Title
MECHANICAL ENGINEERING SERVICES
PROPOSED ABOVE GROUND DRAINAGE SYSTEM
BUILDING 13
GROUND FLOOR

Architect
PURCELL

Client
BARNSLEY MBC

Suitability: Code D2 Description FOR TENDER

Revision:	Scale:	TGA Proj No:	Stage:
P04	1:100	8193	4

Drawing Reference:
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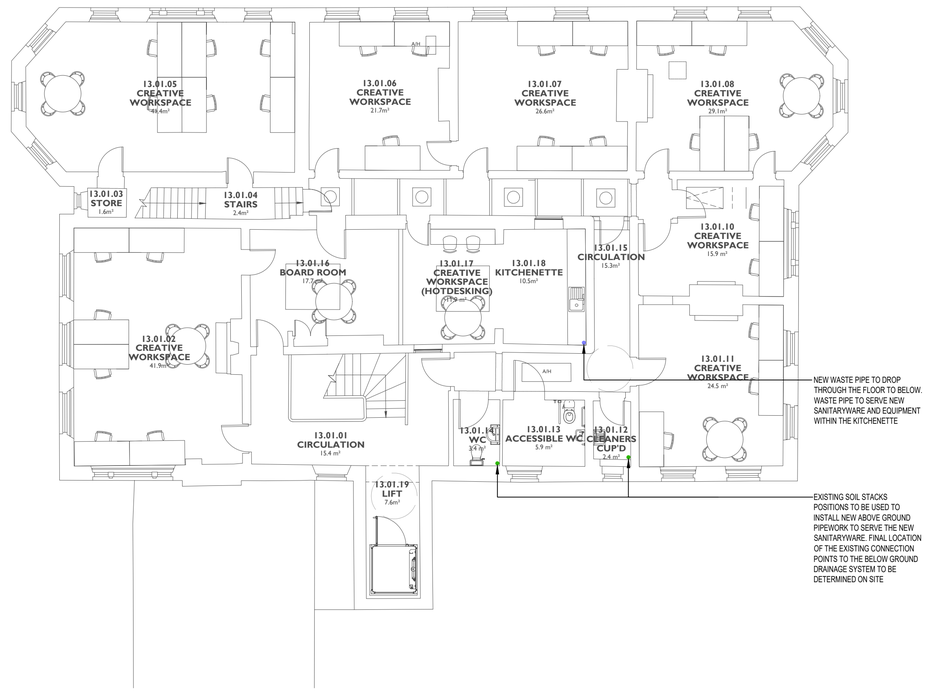

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Project
ELSECAR: FORGING AHEAD

Title
MECHANICAL ENGINEERING SERVICES
PROPOSED ABOVE GROUND DRAINAGE SYSTEM
BUILDING 13
FIRST FLOOR

Architect
PURCELL

Client
BARNSLEY MBC

Suitability: Code D2 Description FOR TENDER

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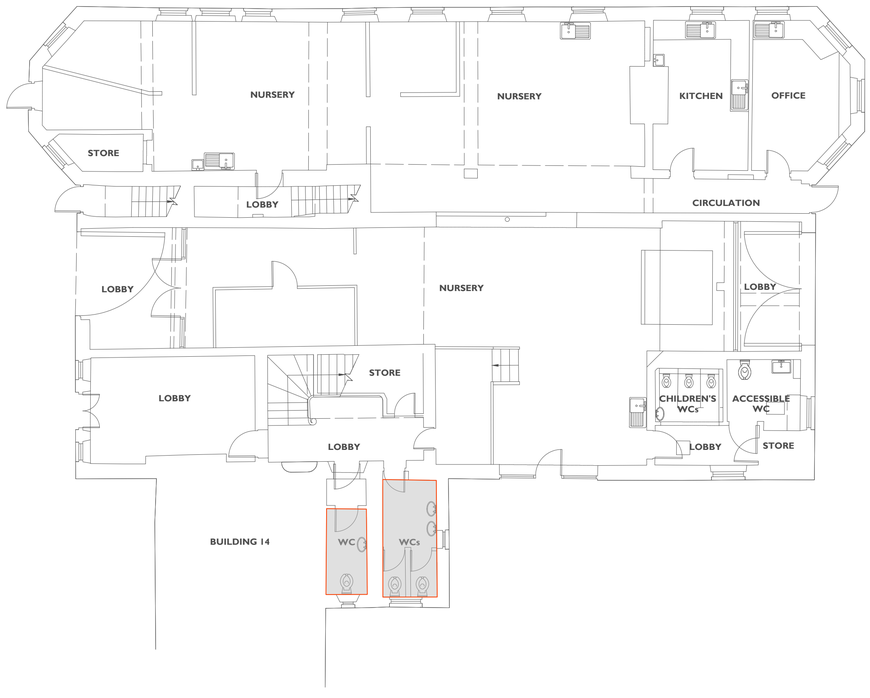

EXISTING DOMESTIC HOT AND COLD WATER SERVICES, INCLUDING LOCAL WATER HEATERS, PIPEWORK MAINS, PIPEWORK BRANCHES, BRACKETS, FIXINGS AND ANCIALLARY ITEMS TO BE DECOMMISSONED STRIPPED OUT AND REMOVED.

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11. ALL WASH HAND BASINS SHALL INCLUDE A TMV2 COMPLIANT THERMOSTATIC MIXING VALVE. SET TEMPERATURE TO 41°C.
12. THERMOSTATIC MIXING VALVES SHALL INCLUDE A SINGLE CHECK VALVE ON HOT AND COLD WATER CONNECTIONS.
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Project
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Title
MECHANICAL ENGINEERING SERVICES
EXISTING DOMESTIC WATER SERVICES
BUILDING 13
GROUND FLOOR

Architect
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Client
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Suitability: Code D2 — Description FOR TENDER

Revision:	Scale:	TGA Proj No:	Stage:
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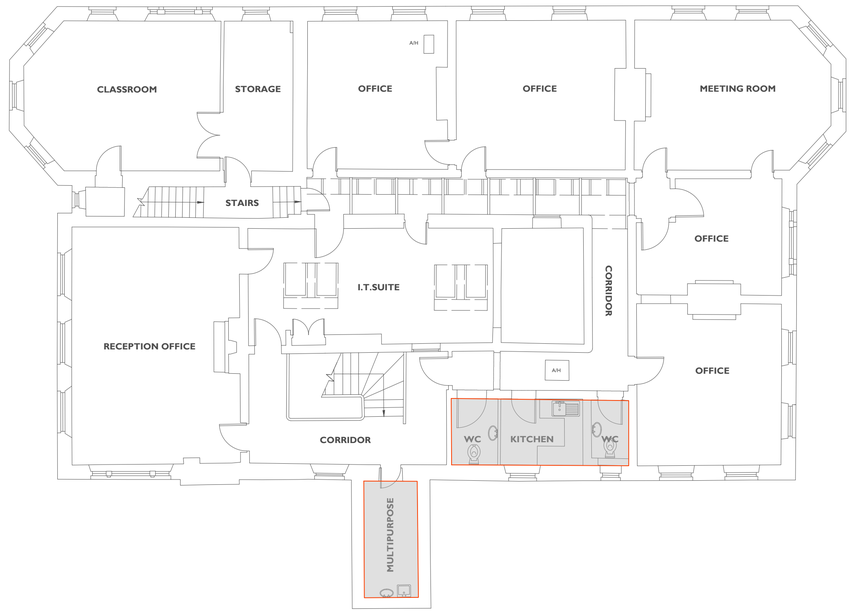

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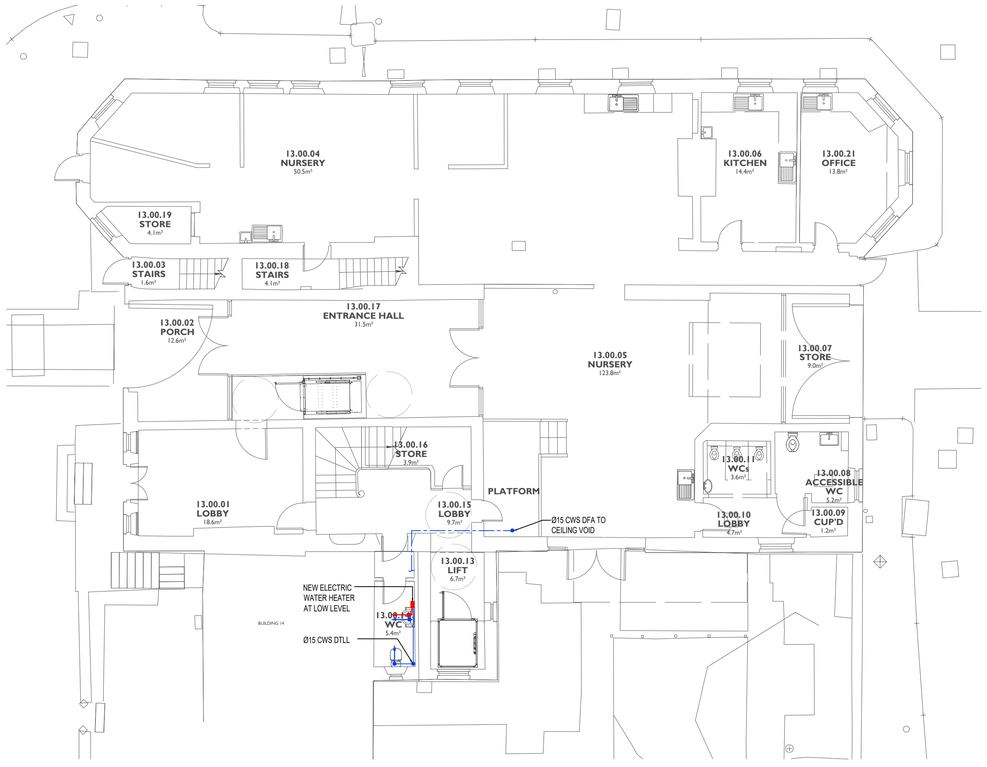

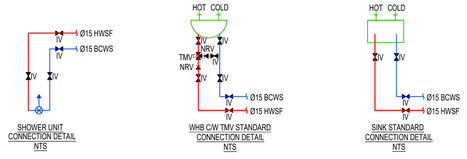

LEGEND

CWS - COLD WATER SERVICED
DTLL - DROP TO LOW LEVEL
RFB - RISE FROM BELOW
RTA - RISE TO ABOVE
RTCV - RISE TO CEILING VOID
DTB - DROP TO BELOW
DFA - DROP FROM ABOVE

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14. THERMAL INSULATION SHALL BE CONTINUOUS THROUGH SUPPORTS AND OVER PIPE FITTINGS.
15. VALVES, STRAINERS, AND OTHER PIPELINE ACCESSORIES SHALL INCLUDE PROPRIETARY TIE-ON INSULATED JACKETS.
16. PIPELINES SHALL INCLUDE SERVICE IDENTIFICATION/ DIRECTION OF FLOW LABELLING.

REV	DATE	DESCRIPTION	DRAWN	APP
P04	22.09.23	SUITABLE FOR TENDER	RC	RE
P03	25.08.23	STAGE 4	MS	RE
P02	02.06.23	UPDATED TO ARCHITECTS COMMENTS AND LAYOUTS	LC	RP
P01	31.03.23	PRELIMINARY ISSUE	JW	RE

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Salvus House, Aykley Heads, Durham City. DH1 5TS.
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Project
ELSECAR: FORGING AHEAD

Title
MECHANICAL ENGINEERING SERVICES
PROPOSED DOMESTIC WATER SERVICES
BUILDING 13
GROUND FLOOR

Architect
PURCELL

Client
BARNSLEY MBC

Suitability: Code D2 — Description FOR TENDER

Revision:	Scale:	TGA Proj No:	Stage:
P04	1:100	8193	4

Drawing Reference:
Project-Originator-Zone-Level-Type-Role-Classification-Number
EFAS-TGA-13-00-DR-M-53002

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A1

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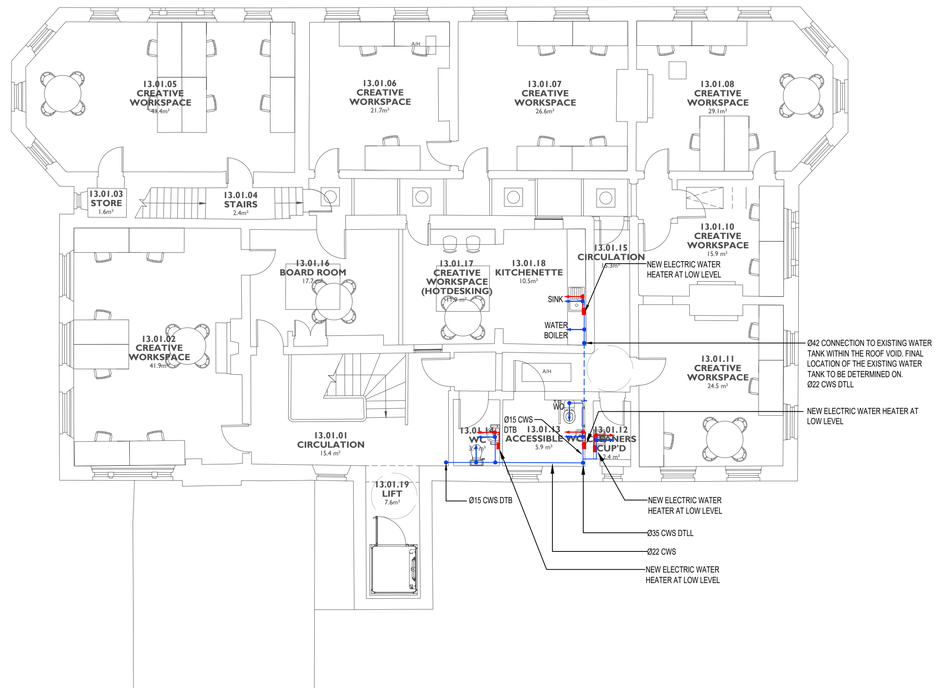
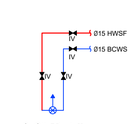
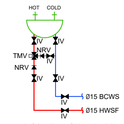
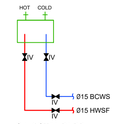




SHOWER UNIT CONNECTION DETAIL
NTS



WHB C/W TMV STANDARD CONNECTION DETAIL
NTS



SINK STANDARD CONNECTION DETAIL
NTS

LEGEND

CWS - COLD WATER SERVICED
DTLL - DROP TO LOW LEVEL
RFB - RISE FROM BELOW
RTA - RISE TO ABOVE
RTCV - RISE TO CEILING VOID
DTB - DROP TO BELOW
DFA - DROP FROM ABOVE

NOTES

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2. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTATED OTHERWISE.
3. PIPEWORK SHALL BE ADEQUATELY SUPPORTED IN THE RUNNING LENGTH USING PROPRIETARY CLIPS, BRACKETS & SUPPORT SYSTEMS.
4. ALL EQUIPMENT, VALVES AND OTHER ACCESSORIES SHALL BE FULLY ACCESSIBLE.
5. PIPELINES PASSING THROUGH A FIRE RATED ELEMENT OF CONSTRUCTION SHALL INCLUDE A SUITABLY RATED FIRE COLLAR.
6. ALL DOMESTIC APPLIANCES AND ITEMS OF SANITARYWARE SHALL INCLUDE A ¼ - TURN TERMINAL ISOLATING VALVE.
7. WHITE GOODS AND OTHER DOMESTIC APPLIANCES SHALL INCLUDE A SINGLE CHECK VALVE AT THE POINT OF CONNECTION TO THE APPLIANCE.
8. PIPEWORK SHALL BE IN FRIATHERM CPVC PLASTIC.
9. ALL WASH HAND BASINS SHALL INCLUDE A TMV2 COMPLIANT THERMOSTATIC MIXING VALVE. SET TEMPERATURE TO 41°C.
10. THERMOSTATIC MIXING VALVES SHALL INCLUDE A SINGLE CHECK VALVE ON HOT AND COLD WATER CONNECTIONS.
11. ALL PIPELINES SHALL INCLUDE THERMAL INSULATION AND A VAPOUR BARRIER IN THE RUNNING LENGTH.
12. THERMAL INSULATION SHALL BE CONTINUOUS THROUGH SUPPORTS AND OVER PIPE FITTINGS.
13. VALVES, STRAINERS, AND OTHER PIPELINE ACCESSORIES SHALL INCLUDE PROPRIETARY TIE-ON INSULATED JACKETS.
14. PIPELINES SHALL INCLUDE SERVICE IDENTIFICATION/ DIRECTION OF FLOW LABELLING.

REV	DATE	DESCRIPTION	DRAWN	APP
P04	22.09.23	SUITABLE FOR TENDER	RC	RE
P03	25.08.23	STAGE 4	MS	RE
P02	02.06.23	UPDATED TO ARCHITECTS COMMENTS AND LAYOUTS	LC	RP
P01	31.03.23	PRELIMINERY ISSUE	JW	RE

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E: info@tgace.co.uk T: 0191 3862314

Project
ELSECAR: FORGING AHEAD

Title
MECHANICAL ENGINEERING SERVICES
PROPOSED DOMESTIC WATER SERVICES
BUILDING 13
FIRST FLOOR

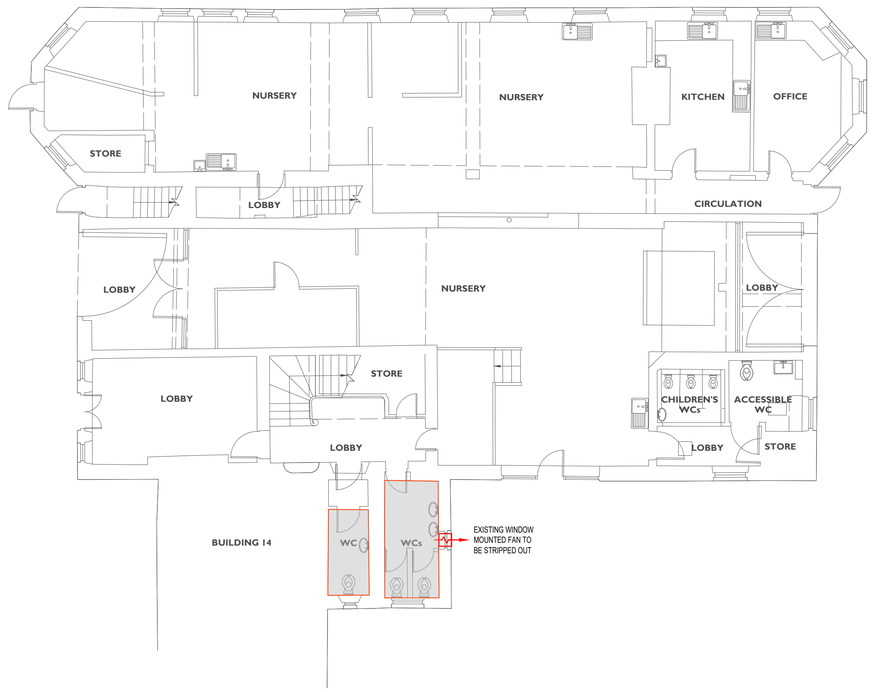
Architect
PURCELL

Client
BARNSLEY MBC

Suitability: Code D2 — Description FOR TENDER

Revision:	Scale:	TGA Proj No:	Stage:
P04	1:100	8193	4

Drawing Reference:
Project-Originator-Zone-Level-Type-Role-Classification-Number
EFAS-TGA-13-01-DR-M-53002



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EXISTING HEATING, VENTILATION AND COOLING SYSTEM EMITTERS, PIPEWORK, DUCTWORK, BRACKETS, FIXINGS AND ANCILLARY ITEMS TO BE DECOMMISSIONED, STRIPPED OUT AND REMOVED.

NOTES

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3. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTATED OTHERWISE.
4. VENTILATION DUCTWORK SHALL BE IN GALVANISED STEEL TO BESA SPECIFICATION DW144.
5. BENDS SHALL BE MEDIUM RADIUS. SQUARE BENDS SHALL INCLUDE TURNING VANES.
6. SQUARE BENDS WITHOUT TURNING VANES SHALL NOT BE USED.
7. GALVANISED STEEL DUCTWORK, PASSING THROUGH FIRE RATED ELEMENTS OF CONSTRUCTION, SHALL INCLUDE SUITABLY RATED FIRE DAMPERS IN ACCORDANCE WITH THE PUBLISHED FIRE STRATEGY..
8. DUCTWORK WORK SHALL BE ADEQUATELY SUPPORTED IN THE RUNNING LENGTH USING PROPRIETARY CLIPS AND BRACKETS.
9. INCLUDE VOLUME CONTROL DAMPERS AND MOTORISED DAMPERS WHERE INDICATED ON THE DRAWINGS.
10. ALL DAMPERS AND OTHER DUCTWORK ACCESSORIES SHALL BE ACCESSIBLE. INCLUDE ADEQUALITY SIZED ACCESS DOORS.
11. THERMAL INSULATION SHALL BE CONTINUOUS IN THE RUNNING LENGTH, CONTINUOUS THROUGH SUPPORTS AND OVER FITTINGS.
12. DUCTLINES SHALL INCLUDE DIRECTION-OF-FLOW AND SERVICE IDENTIFICATION LABELLING.

REV	DATE	DESCRIPTION	DRAWN	APP
P04	22.09.23	SUITABLE FOR TENDER	RC	RE
P03	25.08.23	STAGE 4 REVIEW	BM	RE
P02	02.06.23	UPDATED TO ARCHITECTS COMMENTS AND LAYOUTS	LC	RP
P01	14.04.23	PRELIMINARY ISSUE	BM	RE

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Project
ELSECAR: FORGING AHEAD

Title
MECHANICAL ENGINEERING SERVICES
EXISTING HEATING, VENTILATION & AIR CONDITIONING SERVICES
BUILDING 13
GROUND FLOOR

Architect
PURCELL

Client
BARNSLEY MBC

Suitability:	Code	Description
	D2	FOR TENDER

Revision:	Scale:	TGA Proj No:	Stage:
P04	1:100	8193	4

Drawing Reference:
Project-Originator-Zone-Level-Type-Role-Classification-Number
EFAS-TGA-13-00-DR-M-56001

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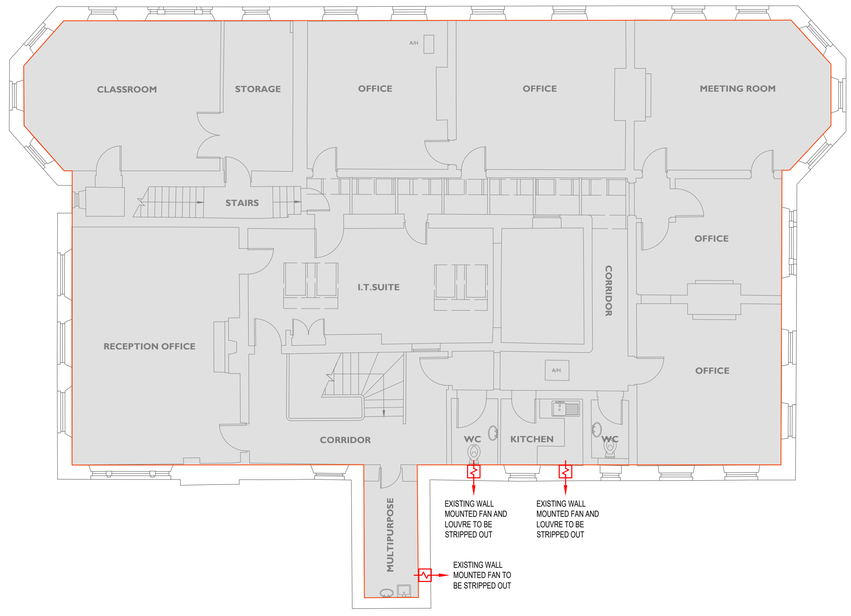

EXISTING HEATING, VENTILATION AND COOLING SYSTEM EMITTERS, PIPEWORK, DUCTWORK, BRACKETS, FIXINGS AND ANCILLARY ITEMS TO BE DECOMMISSIONED, STRIPPED OUT AND REMOVED.

NOTES

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5. BENDS SHALL BE MEDIUM RADIUS. SQUARE BENDS SHALL INCLUDE TURNING VANES.
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8. DUCTWORK WORK SHALL BE ADEQUATELY SUPPORTED IN THE RUNNING LENGTH USING PROPRIETARY CLIPS AND BRACKETS.
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REV	DATE	DESCRIPTION	DRAWN	APP
P04	22.09.23	SUITABLE FOR TENDER	RC	RE
P03	25.08.23	STAGE 4 REVIEW	BM	RE
P02	02.06.23	UPDATED TO ARCHITECTS COMMENTS AND LAYOUTS	LC	RP
P01	14.04.23	PRELIMINARY ISSUE	BM	RE

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Project
ELSECAR: FORGING AHEAD

Title
MECHANICAL ENGINEERING SERVICES
EXISTING HEATING, VENTILATION & AIR CONDITIONING SERVICES
BUILDING 13
FIRST FLOOR

Architect
PURCELL

Client
BARNSLEY MBC

Suitability: Code D2 Description FOR TENDER

Revision:	Scale:	TGA Proj No:	Stage:
P04	1:100	8193	4

Drawing Reference:
Project-Originator-Zone-Level-Type-Role-Classification-Number
EFAS-TGA-13-01-DR-M-56001

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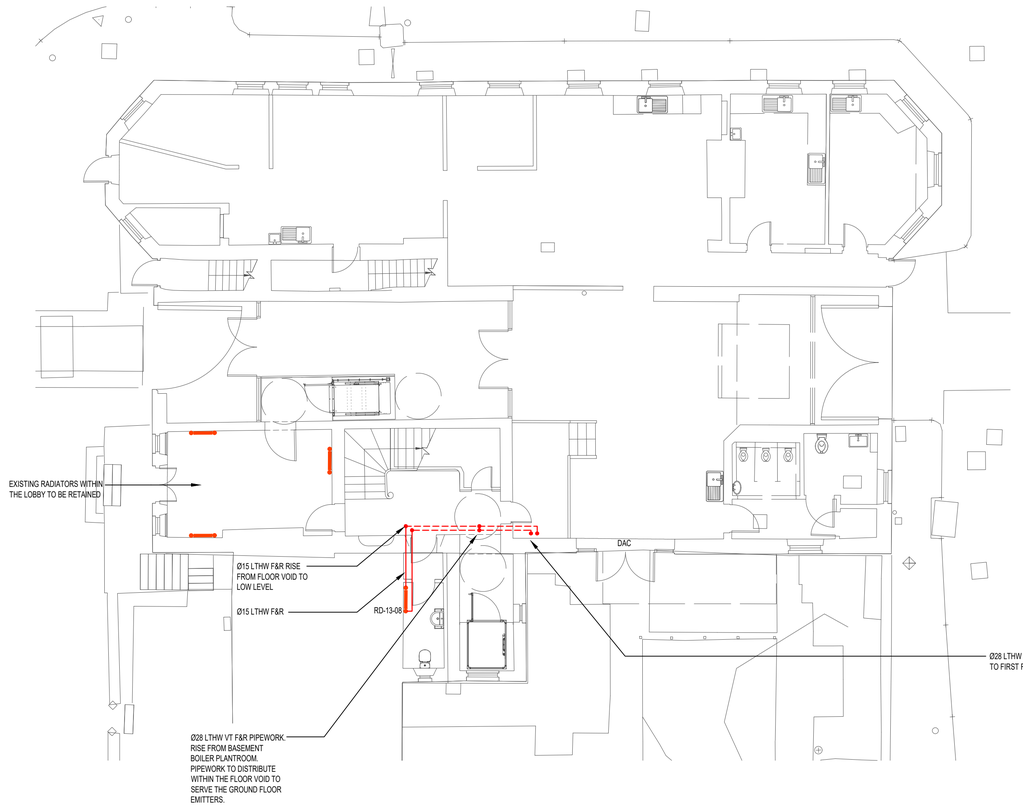

LEGEND

- RADIATOR
- LOW SURFACE TEMPERATURE RADIATOR
- CEILING CASSETE UNIT
- DAC — DOOR AIR CURTAIN
- EXTRACT FAN
- HEAT RECOVERY UNIT
- PIPEWORK IN FLOOR VOID
- PIPEWORK AT LOW LEVEL
- DUCTWORK

NOTES

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REV	DATE	DESCRIPTION	DRAWN	APP
P06	29.09.23	UPDATED PIPE SIZES	BM	RE
P05	22.09.23	SUITABLE FOR TENDER	RC	RE
P04	05.09.23	STAGE 4 ISSUE	BM	RE
P03	05.06.23	ARCHITECTS COMMENTS INCOPORATED	LC	RE
P02	02.06.23	UPDATED TO ARCHITECTS COMMENTS AND LAYOUTS	LC	RP
P01	14.04.23	PRELIMINARY ISSUE	BM	RE

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Project

ELSECAR: FORGING AHEAD

Title

MECHANICAL ENGINEERING SERVICES
PROPOSED HEATING
BUILDING 13
GROUND FLOOR

Architect

PURCELL

Client

BARNSLEY MBC

Suitability: Code D2 — Description FOR TENDER

Revision:	Scale:	TGA Proj No:	Stage:
P06	1:100	8193	4

Drawing Reference:
Project-Originator-Zone-Level-Type-Role-Classification-Number

EFAS-TGA-13-00-DR-M-56002

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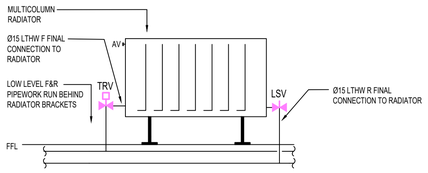
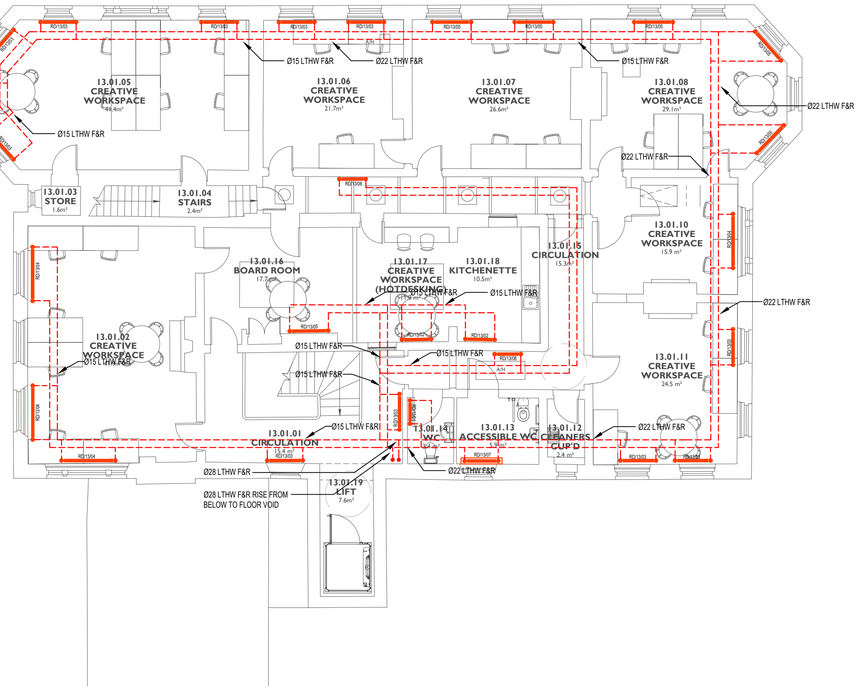


TYPICAL SINGLE RADIATOR ARRANGEMENT DETAIL



LEGEND

- RADIATOR
- LOW SURFACE TEMPERATURE RADIATOR
- PIPEWORK IN FLOOR VOID
- PIPEWORK AT LOW LEVEL
- PIPEWORK AT HIGH LEVEL
- DTLL — DROP TO LOW LEVEL
- F&R — FLOW & RETURN
- LTHW — LOW TEMPERATURE HOT WATER

NOTES

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REV	DATE	DESCRIPTION	DRAWN	APP
P05	29.09.23	UPDATED PIPE SIZES	BM	RE
P04	22.09.23	SUITABLE FOR TENDER	RC	RE
P03	25.08.23	STAGE 4	MS	RE
P02	02.06.23	UPDATED TO ARCHITECTS COMMENTS AND LAYOUTS	LC	RP
P01	14.04.23	PRELIMINARY ISSUE	BM	RE

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Salvus House, Aykley Heads, Durham City. DH1 5TS.
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Project
ELSECAR: FORGING AHEAD

Title
MECHANICAL ENGINEERING SERVICES
PROPOSED HEATING LAYOUT
BUILDING 13
FIRST FLOOR

Architect
PURCELL

Client
BARNSLEY MBC

Suitability: Code D2 — Description FOR TENDER

Revision:	Scale:	TGA Proj No:	Stage:
P05	1:100	8193	4

Drawing Reference:
Project-Originator-Zone-Level-Type-Role-Classification-Number
EFAS-TGA-13-01-DR-M-56002

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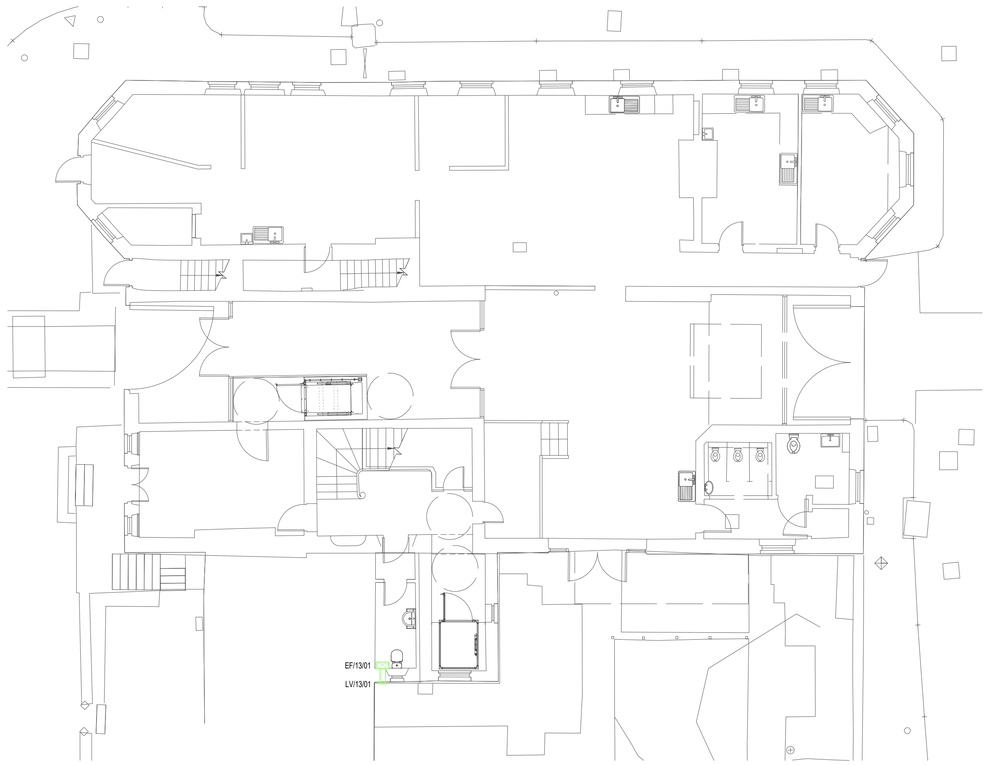

LEGEND

- SUPPLY DIFFUSER
- EXTRACT GRILLE
- VOLUME CONTROL DAMPER
- EXTRACT FAN
- HEAT RECOVERY UNIT
- GENERAL SUPPLY
- GENERAL EXTRACT
- FRESH AIR INTAKE
- EXHAUST AIR

NOTES

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5. BENDS SHALL BE MEDIUM RADIUS. SQUARE BENDS SHALL INCLUDE TURNING VANES.
6. SQUARE BENDS WITHOUT TURNING VANES SHALL NOT BE USED.
7. GALVANISED STEEL DUCTWORK, PASSING THROUGH FIRE RATED ELEMENTS OF CONSTRUCTION, SHALL INCLUDE SUITABLY RATED FIRE DAMPERS IN ACCORDANCE WITH THE PUBLISHED FIRE STRATEGY..
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REV	DATE	DESCRIPTION	DRAWN	APP
P02	22.09.23	SUITBALE FOR TENDER	RC	RE
P01	25.08.23	STAGE 4	MS	RE

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E: info@tgace.co.uk T: 0191 3862314

Project

ELSECAR: FORGING AHEAD

Title

MECHANICAL ENGINEERING SERVICES
PROPOSED VENTILATION LAYOUT
BUILDING 13
GROUND FLOOR

Architect

PURCELL

Client

BARNSLEY MBC

Suitability:	Code	Description
	D2	FOR TENDER

Revision:	Scale:	TGA Proj No:	Stage:
P02	1:100	8193	4

Drawing Reference:
Project-Originator-Zone-Level-Type-Role-Classification-Number

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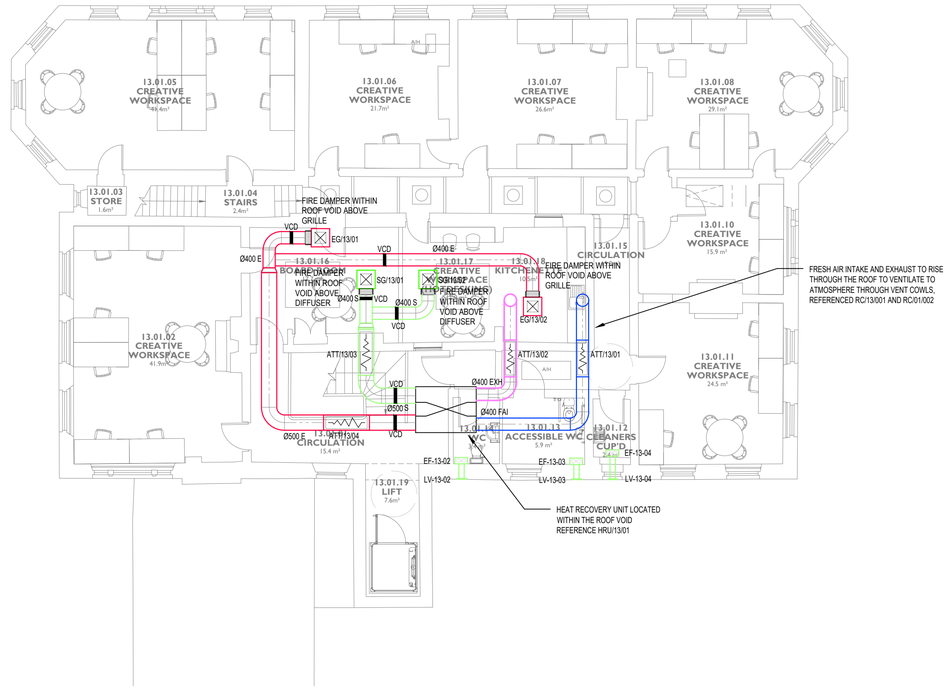

LEGEND

- SUPPLY DIFFUSER
- EXTRACT GRILLE
- VOLUME CONTROL DAMPER
- EXTRACT FAN
- HEAT RECOVERY UNIT
- GENERAL SUPPLY
- GENERAL EXTRACT
- FRESH AIR INTAKE
- EXHAUST AIR

NOTES

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4. VENTILATION DUCTWORK SHALL BE IN GALVANISED STEEL TO BESA SPECIFICATION DW144.
5. BENDS SHALL BE MEDIUM RADIUS. SQUARE BENDS SHALL INCLUDE TURNING VANES.
6. SQUARE BENDS WITHOUT TURNING VANES SHALL NOT BE USED.
7. GALVANISED STEEL DUCTWORK, PASSING THROUGH FIRE RATED ELEMENTS OF CONSTRUCTION, SHALL INCLUDE SUITABLY RATED FIRE DAMPERS IN ACCORDANCE WITH THE PUBLISHED FIRE STRATEGY..
8. DUCTWORK WORK SHALL BE ADEQUATELY SUPPORTED IN THE RUNNING LENGTH USING PROPRIETARY CLIPS AND BRACKETS.
9. INCLUDE VOLUME CONTROL DAMPERS AND MOTORISED DAMPERS WHERE INDICATED ON THE DRAWINGS.
10. ALL DAMPERS AND OTHER DUCTWORK ACCESSORIES SHALL BE ACCESSIBLE. INCLUDE ADEQUALITY SIZED ACCESS DOORS.
11. THERMAL INSULATION SHALL BE CONTINUOUS IN THE RUNNING LENGTH, CONTINUOUS THROUGH SUPPORTS AND OVER FITTINGS.
12. DUCTLINES SHALL INCLUDE DIRECTION-OF-FLOW AND SERVICE IDENTIFICATION LABELLING.

REV	DATE	DESCRIPTION	DRAWN	APP
P02	22.09.23	SUITABLE FOR TENDER	RC	RE
P01	25.08.23	STAGE 4	MS	RE

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Project
ELSECAR: FORGING AHEAD

Title
MECHANICAL ENGINEERING SERVICES
PROPOSED VENTILATION LAYOUT
BUILDING 13
FIRST FLOOR

Architect
PURCELL

Client
BARNSLEY MBC

Suitability: Code D2 — Description FOR TENDER

Revision:	Scale:	TGA Proj No:	Stage:
P02	1:100	8193	4

Drawing Reference:
Project-Originator-Zone-Level-Type-Role-Classification-Number
EFAS-TGA-13-01-DR-M-57001