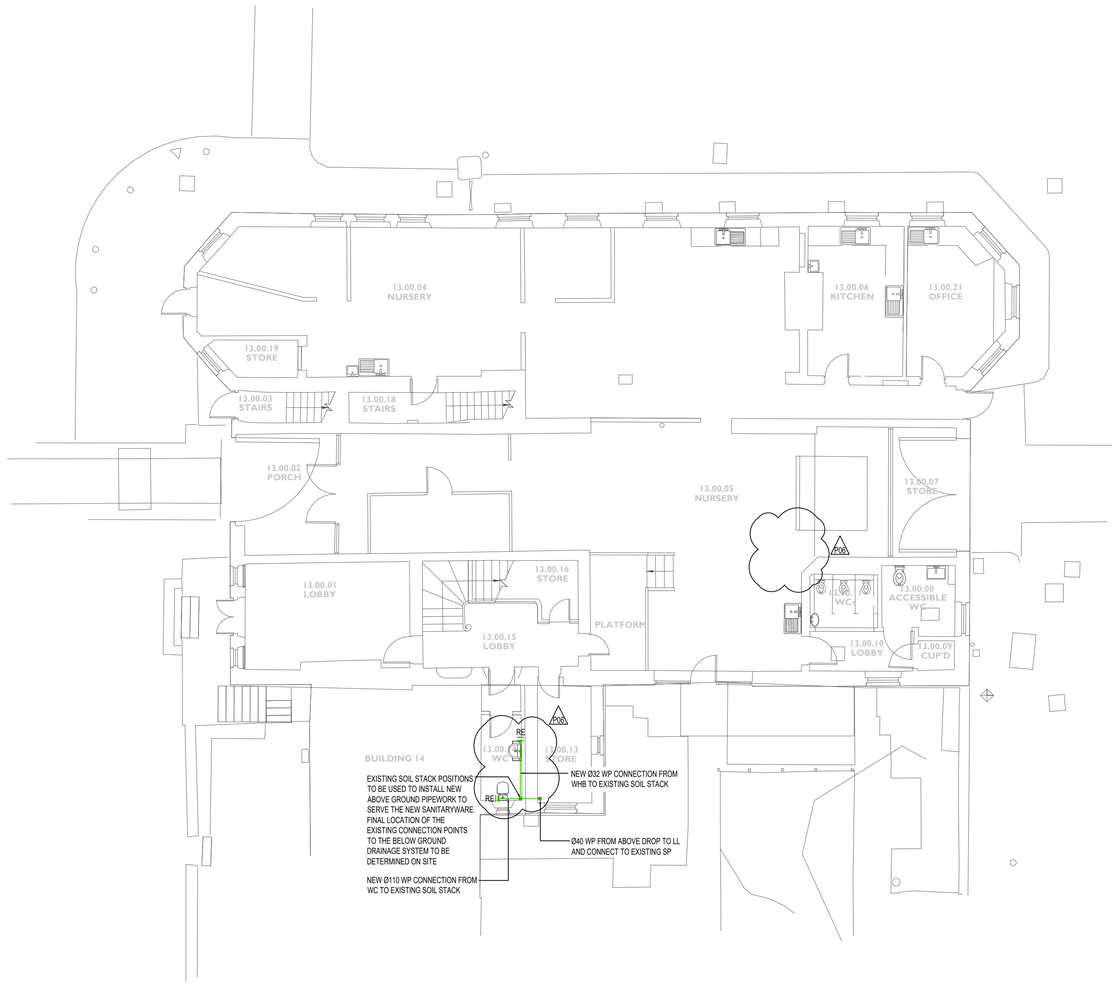
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A1

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LEGEND

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

NOTES

1. THIS DRAWING SHOWS THE DESIGN PROPOSAL FOR A WORKSTAGE 4 TECHNICAL DESIGN LEVEL OF DETAIL AND COMPLETENESS AS DEFINED BY BSRIA BG6 :2018. ALL QUANTITIES AND LOCATIONS ARE BASED ON GENERIC EQUIPMENT SELECTIONS AND SHALL BE CONFIRMED AND FULLY COORDINATED AS PART OF THE CONSTRUCTION STAGE DESIGN ACTIVITIES.
2. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTATED OTHERWISE.
3. ALL PIPE SIZES AND EQUIPMENT SELECTIONS ARE PROVISIONAL.
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.
7. RODDING ACCESS POINTS SHALL BE PROVIDED IN THE ENDS OF HORIZONTAL SOIL AND WASTE PIPEWORK AND AT CHANGES IN PIPE DIRECTION.
8. INCLUDE PROPRIETARY WATER-LESS TRAPS AT RELIEF VALVE TUNDISH WASTE PIPE AND CONDENSATE DISPOSAL PIPE CONNECTIONS INTO THE AGD PIPE SYSTEM.
9. SVPS NOT ROUTED TO ABOVE ROOF LEVEL SHALL INCLUDE A PROPRIETARY AIR ADMITTANCE VALVE ASSEMBLY.
10. SVPS WHICH EXIT THE BUILDING THROUGH THE ROOF SHALL BE FITTED WITH A SUITABLE WEATHER FLASHING AND PROPRIETARY PIPE TERMINAL/BIRD SCREEN.
11. WASTE PIPEWORK AND FITTINGS SHALL BE IN PUSH-JOINTED PVCU PIPE, SIZES < 40mm DIA.
12. SOIL PIPEWORK AND FITTINGS SHALL BE PUSH-JOINTED PVCU PIPE, SIZES > 82mm DIA.

REV	DATE	DESCRIPTION	DRAWN	APP
P06	23.02.24	UPDATE TO SUIT REVISED GA'S	BM	RE
P05	05.12.23	ENTRANCE ARRANGEMENT UPDATED	RT	RN
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	31.03.23	PRELIMINARY ISSUE	JW	RE

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A sustainable future... engineered.
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Salvus House, Aykley Heads, Durham City. DH1 5TS.
E: info@tgace.co.uk T: 0191 3862314

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

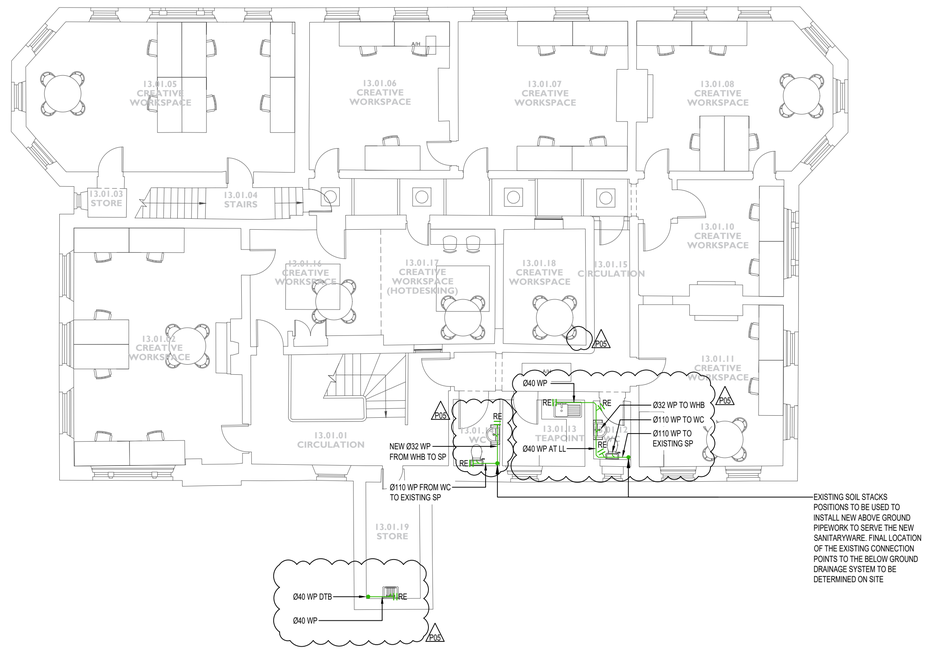
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Drawing Reference:
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EFAS-TGA-13-00-DR-M-52002

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P01	31.03.23	PRELIMINEY ISSUE	JW	RE

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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

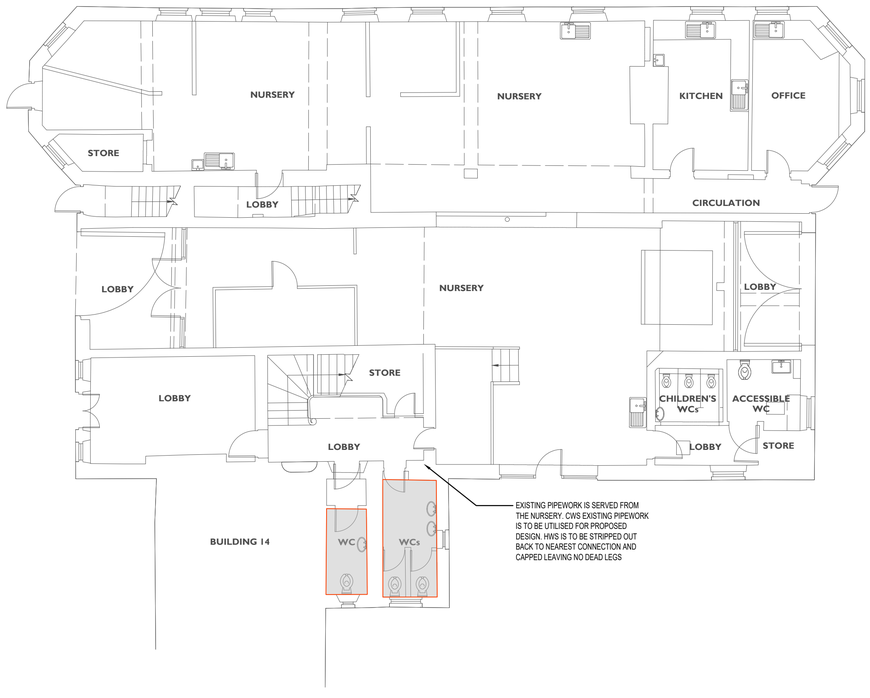
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Drawing Reference:
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EFAS-TGA-13-01-DR-M-52002

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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.

NOTES

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8. ALL DOMESTIC APPLIANCES AND ITEMS OF SANITARYWARE SHALL INCLUDE A ¼ - TURN TERMINAL ISOLATING VALVE.
9. WHITE GOODS AND OTHER DOMESTIC APPLIANCES SHALL INCLUDE A SINGLE CHECK VALVE AT THE POINT OF CONNECTION TO THE APPLIANCE.
10. PIPEWORK SHALL BE IN FRIATHERM CPVC PLASTIC.
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.
13. ALL PIPELINES SHALL INCLUDE THERMAL INSULATION AND A VAPOUR BARRIER IN THE RUNNING LENGTH.
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
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P02	02.06.23	UPDATED TO ARCHITECTS COMMENTS AND LAYOUTS	LC	RP
P01	31.03.23	PRELIMINARY ISSUE	JW	RE

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Project
ELSECAR: FORGING AHEAD

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

Architect
PURCELL

Client
BARNSLEY MBC

Suitability: Code D2 — Description FOR TENDER

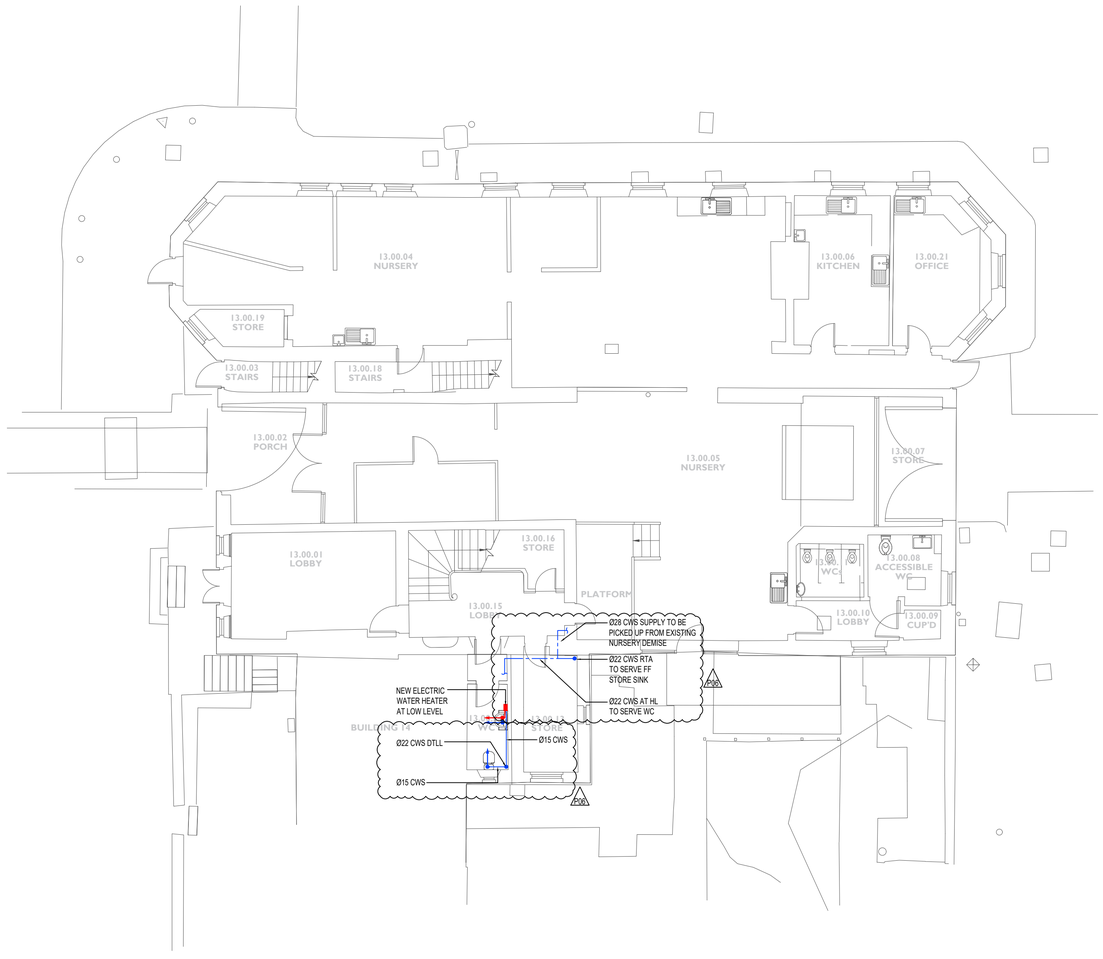
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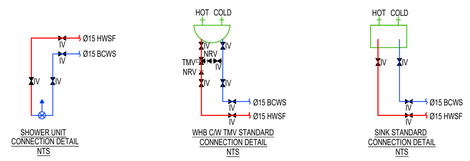
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A1

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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

NOTES

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REV	DATE	DESCRIPTION	DRAWN	APP
P06	23.02.24	UPDATE TO SUIT REVISED GA'S	BM	RE
P05	05.12.23	ENTRANCE ARRANGEMENT UPDATED	RT	RN
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.
E: info@tgace.co.uk T: 0191 3862314

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

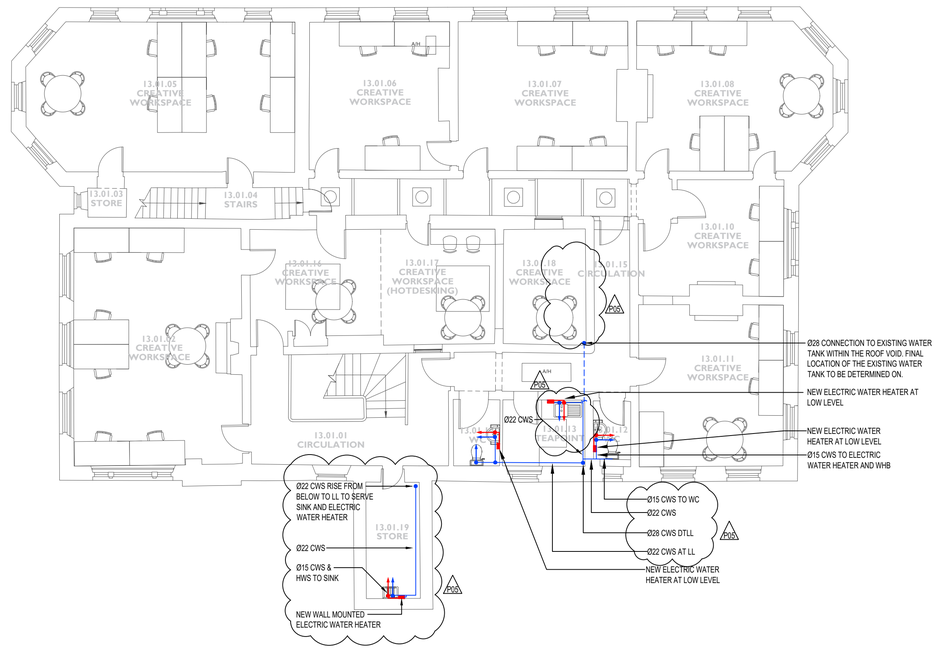
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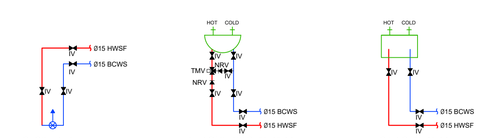
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EFAS-TGA-13-00-DR-M-53002

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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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REV	DATE	DESCRIPTION	DRAWN	APP
P05	23.02.24	UPDATE TO SUIT REVISED GA'S	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	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

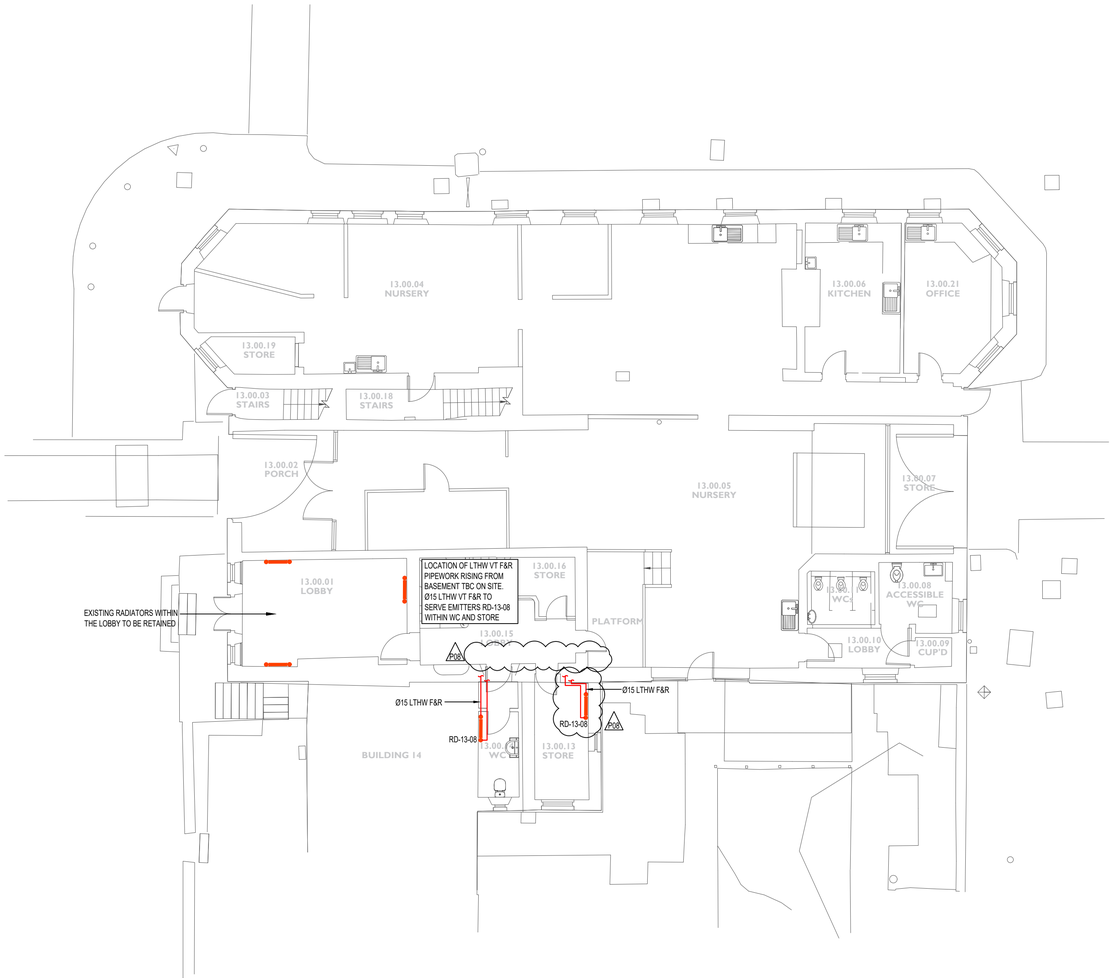
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Drawing Reference:
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EFAS-TGA-13-01-DR-M-53002

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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
P08	23.02.24	UPDATE TO SUIT REVISED GA'S	BM	RE
P07	05.12.23	ENTRANCE ARRANGEMENT UPDATED	RT	RN
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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A sustainable future... engineered.
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Salvus House, Aykley Heads, Durham City. DH1 5TS.
E: info@tgace.co.uk T: 0191 3862314

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

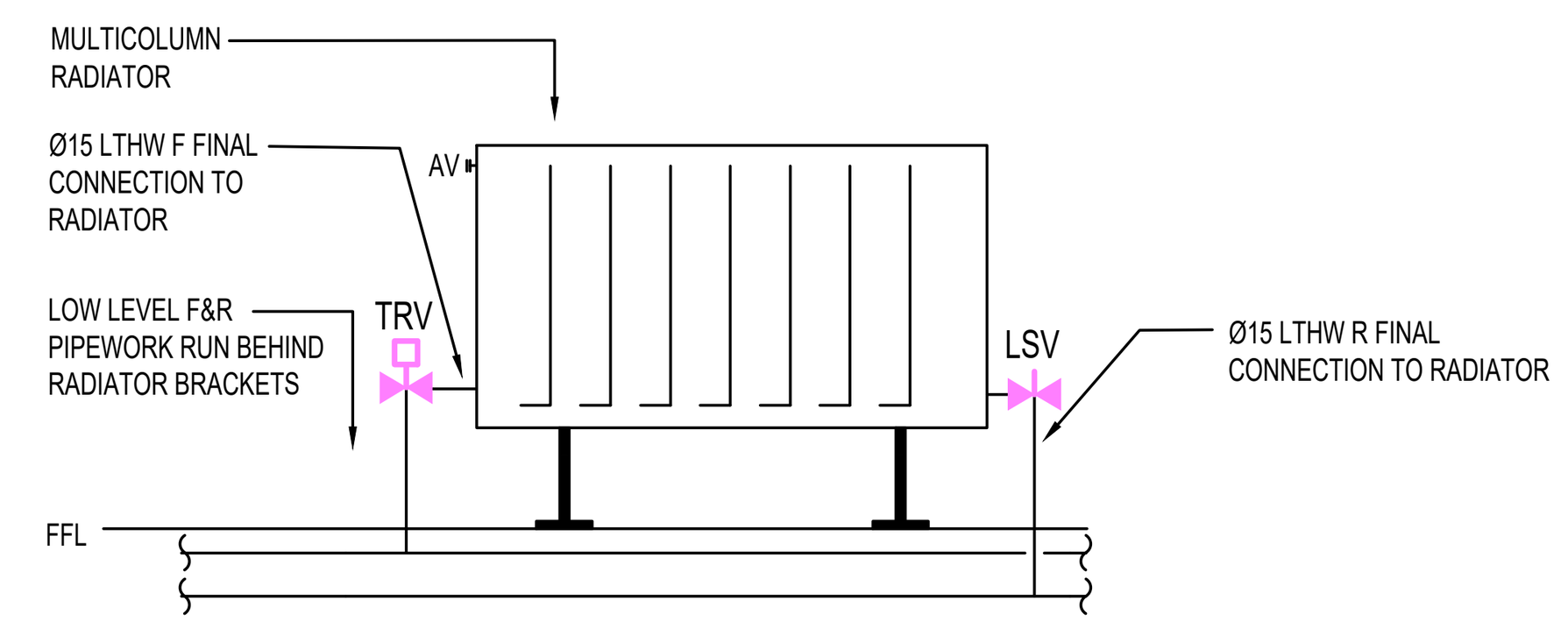
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Drawing Reference:
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EFAS-TGA-13-00-DR-M-56002

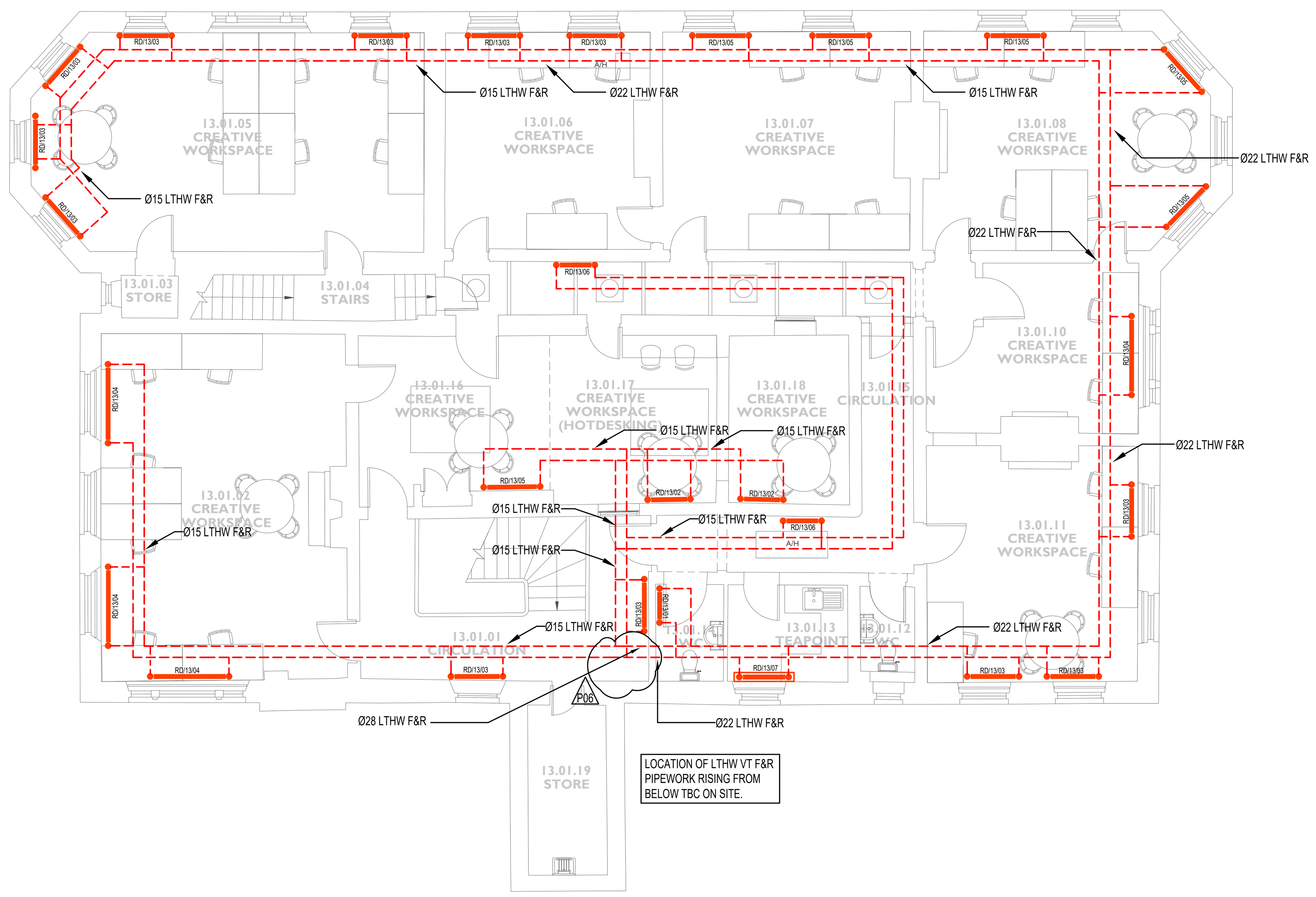
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TYPICAL SINGLE RADIATOR ARRANGEMENT DETAIL



LEGEND

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

NOTES

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P02	02.06.23	UPDATED TO ARCHITECTS COMMENTS AND LAYOUTS	LC	RP
P01	14.04.23	PRELIMINARY ISSUE	BM	RE

TGA Consulting Engineers LLP,
Salvus House, Aykley Heads, Durham City. DH1 5TS.
E: info@tgace.co.uk T: 0191 3862314

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

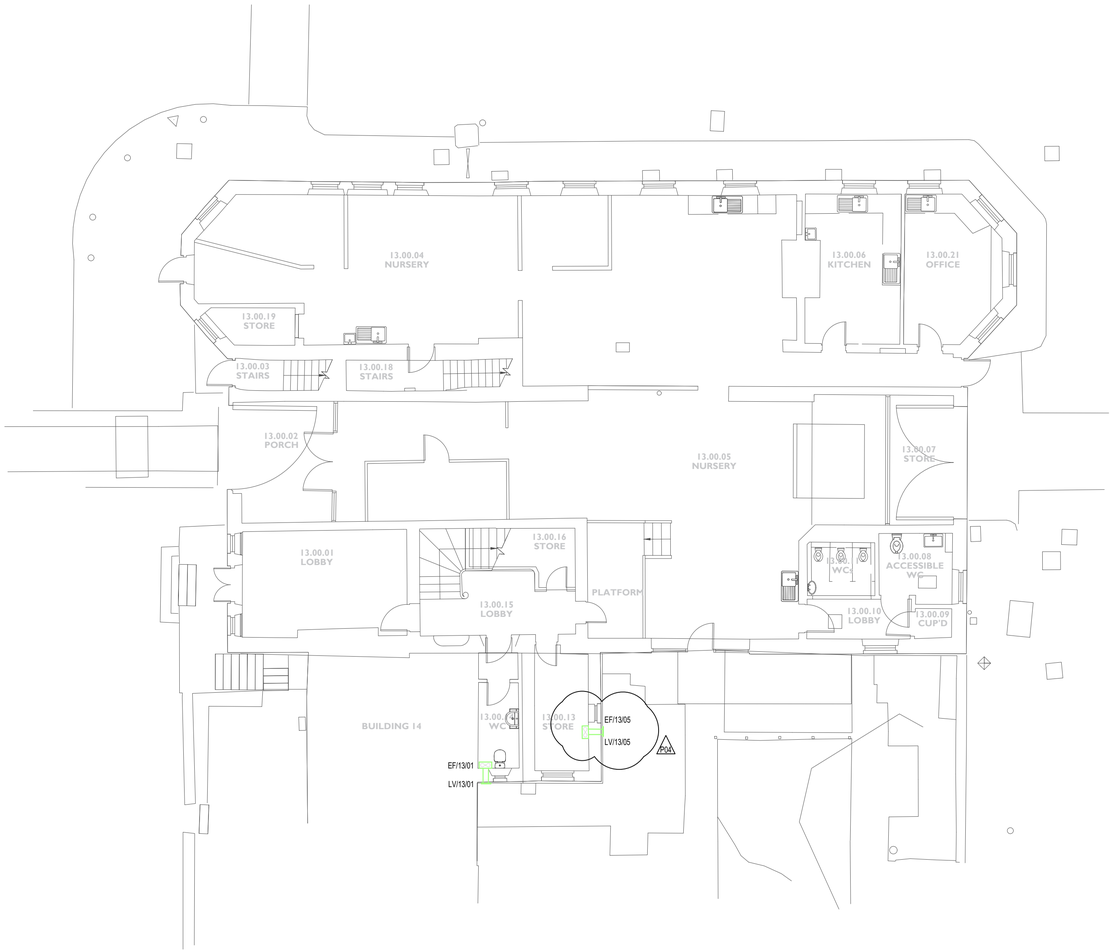
Revision:	Scale:	TGA Proj No:	Stage:
P06	1:100	8193	4

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

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A1

Standard construction hazards that a competent contractor would be aware of have not been identified on this drawing. Any risks not immediately apparent are identified within the CDM Residual Risk Register.



LEGEND

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

NOTES

1. THIS DRAWING SHOWS THE DESIGN PROPOSAL FOR A WORKSTAGE 4 TECHNICAL DESIGN LEVEL OF DETAIL AND COMPLETENESS AS DEFINED BY BSRIA BG6 :2018. ALL QUANTITIES AND LOCATIONS ARE BASED ON GENERIC EQUIPMENT SELECTIONS AND SHALL BE CONFIRMED AND FULLY COORDINATED AS PART OF THE CONSTRUCTION STAGE DESIGN ACTIVITIES.
2. READ IN CONJUNCTION WITH ALL OTHER RELATED DESIGN INFORMATION INCLUDING BUT NOT LIMITED TO ARCHITECTURAL AND STRUCTURAL INFORMATION.
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	23.02.24	UPDATE TO SUIT REVISED GA'S	BM	RE
P03	05.12.23	ENTRANCE ARRANGEMENT UPDATED	RT	RN
P02	22.09.23	SUITBALE FOR TENDER	RC	RE
P01	25.08.23	STAGE 4	MS	RE

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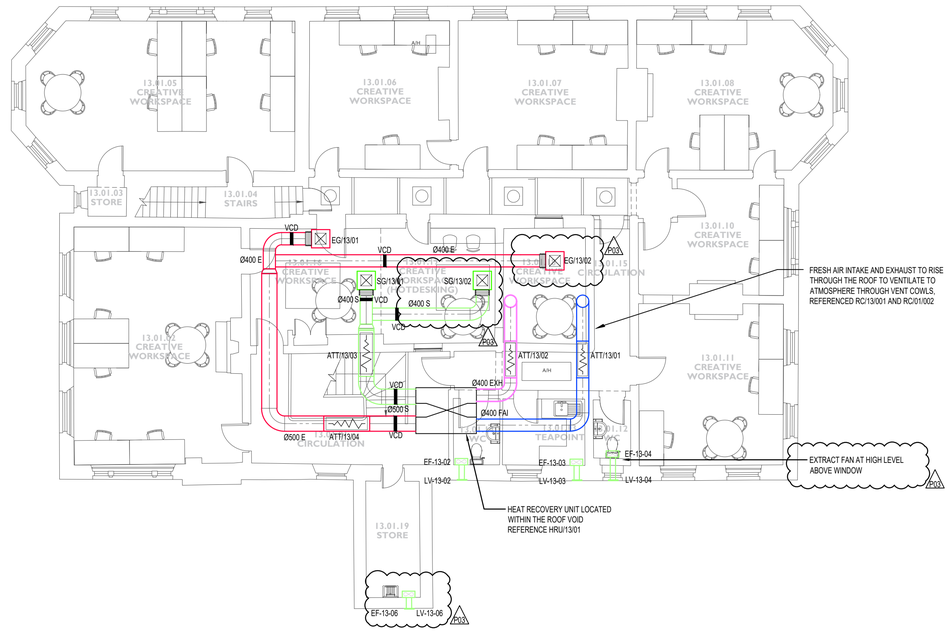
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