

Message

**From:** M.Smith@maxfordham.com [M.Smith@maxfordham.com]  
**Sent:** 02/05/2014 10:59:52  
**To:** Fergus MacGregor [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=df9e19274eb34e039e3ac9f6d5b1852c-Fergus.MacG]  
**CC:** Hugh Mahoney [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=21c7864f51fe42559a1e4f436ef1d73c-Hugh.Mahone]  
**Subject:** Fw: Smoke extract system refurb - as discussed yesterday  
**Attachments:** U(14)01\_200.pdf; IMG\_3772.JPG; IMG\_3761.JPG; IMG\_3759.JPG; 1279 SEA (04) 105 - Proposed Residential Plan (W+2).pdf; U(14)01\_200 (Mark-up 20140502).pdf

Morning Fergus

I understand you're the person to speak to regarding residential smoke extract systems in Hugh's absence. I spoke to Hugh yesterday about a refurbishment job in London which I believe a colleague of mine in our Edinburgh office has previously discussed with Jim Shields. We're looking to bring the existing non-compliant push-pull system up to scratch and after speaking with Hugh it seems a pressure differential system would be the way to go.

I've recently been informed that a deficiency notice has been placed on the building due to the existing system being inoperative. This expires on Monday. For this reason I'd like to have a chat with you to clarify a few points made by Hugh, and also to see if you may have any ideas for interim measures on the existing system.

Feel free to give me a call to get the background on the job, the email and attachments below should help but will not give the full picture. I tried your mobile earlier but there was no reply.

Kind regards,

Matt

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----- Forwarded by Matt Smith/MaxFordham on 02/05/2014 10:50 -----

**From:** Matt Smith/MaxFordham  
**To:** hm@psbuk.com,  
**Date:** 02/05/2014 10:28  
**Subject:** Smoke extract system refurb - as discussed yesterday

Morning Hugh

Thanks again for taking the time to discuss the refurbishment of the smoke extract system I'm working on. I'd like to clarify a few details from our conversation if that's alright? I've attached a floor plan of a typical residential floor, our previous smoke extract schematic, a rough and ready marked-up schematic showing my understanding of our conversation with the addition of general ventilation provision, and a few photos for reference. The building is Grenfell Tower in North Kensington.

As a reminder, each of the 2x supply shafts and 2x extract shafts are 400 x 600 mm builder's shafts, the grilles are 300 x 600 mm each (4 in total per floor, 2x high level extract, 2x low level supply).

Can you clarify the following?

- Inverter drive smoke extract fan speed is to be controlled by pressure sensors in each lobby.
- Pressure relief panels are not required.
- Extract fan(s) to be sized based on maintaining 2 m/s airflow through single open lobby door, leakage around remaining closed lobby doors and duct pressure losses.
- In case of all lobby doors being closed, the maximum pressure differential should not exceed 60 Pa (equivalent to max. 100 N door opening force).

If any of what I have sent is not clear then please don't hesitate to get in touch either via email or 'phone. I'd also like to reiterate that whilst the specification is 'equal or approved', the contractor is well aware of the complexity of the system and I will ensure that your name is prominently mentioned during discussions of the system. Also, do PSB have a London sales rep?

Kind regards,

Matt

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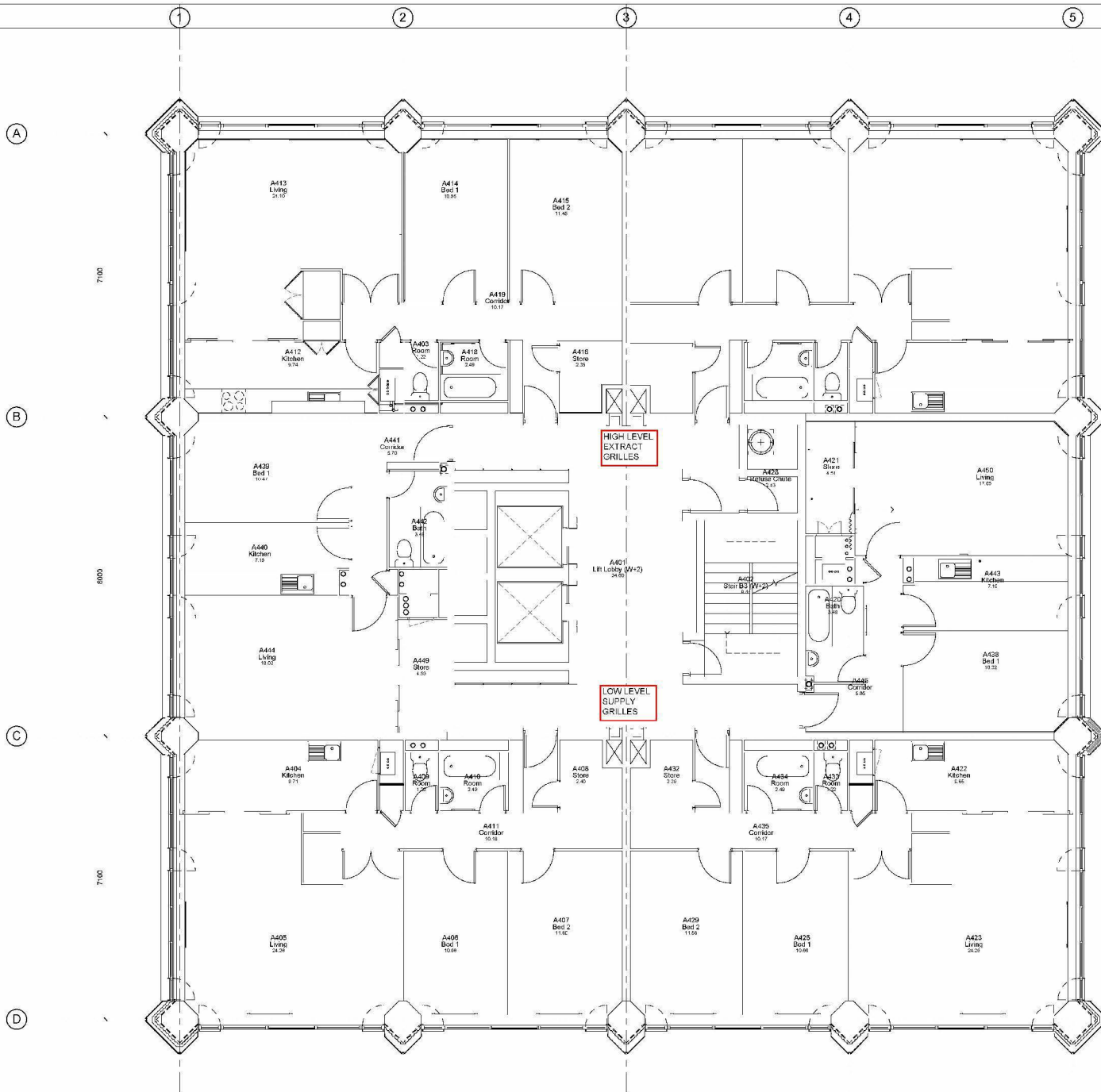








Typical Residential  
1:50



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  - WHERE DISCREPANCIES EXIST BETWEEN DIMENSIONS OR DIMENSION STRINGS, THE LATTER TAKE PRECEDENCE.

DRAFT  
09/11/13

FOR INFORMATION 23/05/12



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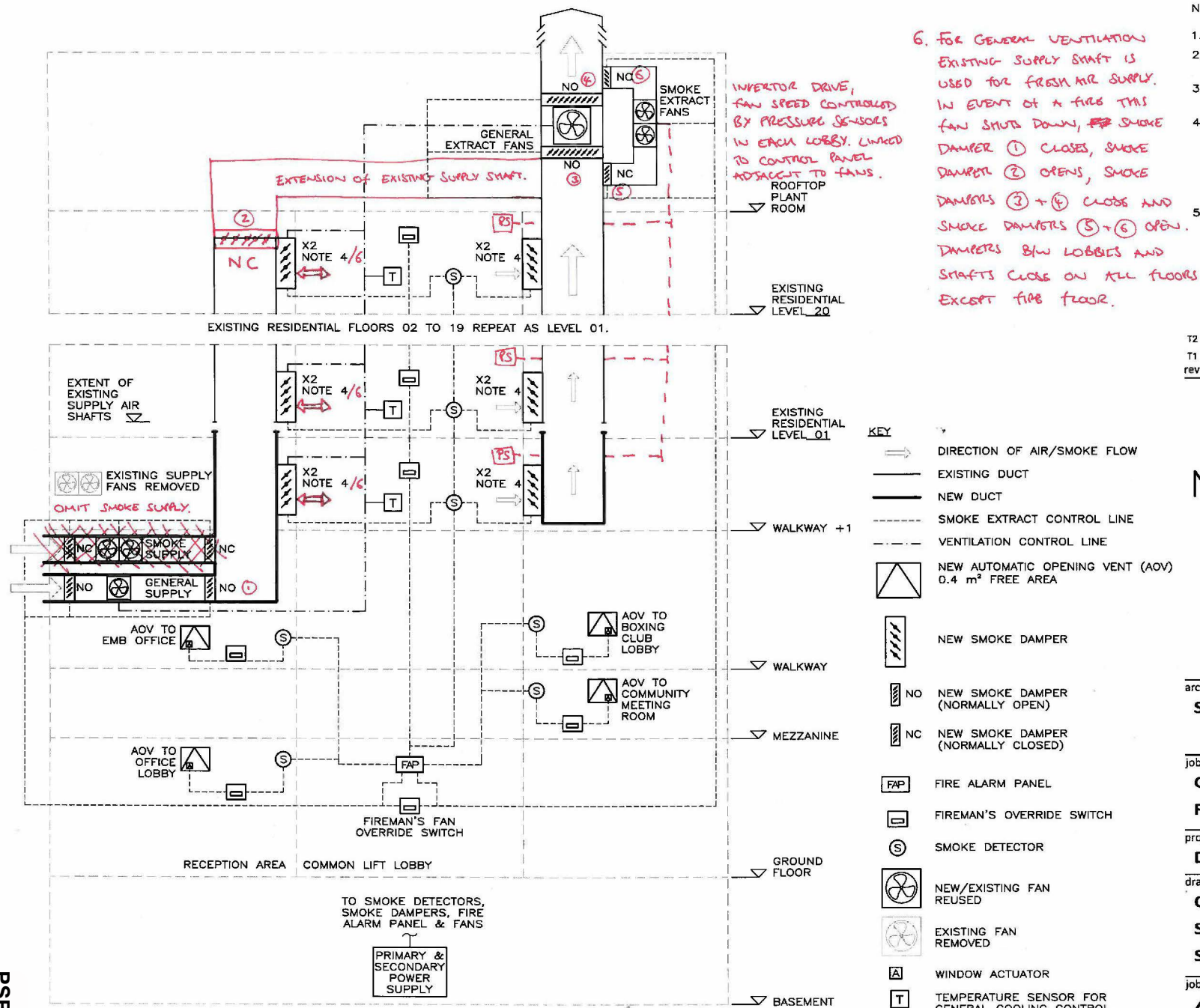
GREENFELL TOWER  
REGENERATION PROJECT  
17/05/2012

Proposed Residential Plan  
(W-2)  
24/04/13

1:50 09/11/13

1279 (04) 105 1 Checker

10/10/2013 10/10/2013



6. FOR GENERAL VENTILATION  
EXISTING SUPPLY SHAFT IS  
USED FOR FRESH AIR SUPPLY.  
IN EVENT OF A FIRE THIS  
FAN SHUTS DOWN, SMOKE  
DAMPER ① CLOSES, SMOKE  
DAMPER ② OPENS, SMOKE  
DAMPERS ③ + ④ CLOSE AND  
SMOKE DAMPERS ⑤ + ⑥ OPEN.  
DAMPERS B/W LOBBIES AND  
SHAFTS CLOSE ON ALL FLOORS  
EXCEPT FIRE FLOOR.

## NOTES:

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- READ IN CONJUNCTION WITH THE MF TENDER DOCUMENTATION.
- READ IN CONJUNCTION WITH THE T(90)01 SERIES COMBINED MECHANICAL LAYOUTS.
- ONLY HALF THE DAMPERS & DUCTS SHOWN FOR CLARITY. EACH FLOOR HAS TWO SUPPLY AND TWO EXTRACT DUCTS SERVICING EACH LOBBY. EACH MOTORISED DAMPER IS TO BE NORMALLY OPEN, WITH ALL DAMPERS EXCEPT THOSE ON THE FIRE FLOOR CLOSING IN THE EVENT OF A FIRE.
- EXISTING SMOKE EXTRACT SYSTEM SUPPLY AIR FANS LOCATED IN CEILING VOID OF WALKWAY+1. THESE FANS WILL BE REMOVED. PROPOSAL IS TO INSTALL NEW FANS IN LOCATION SHOWN ON T(90)01-102.

T2	20/11/13	STAGE E TENDER ISSUE	MJS
T1	01/11/13	STAGE E TENDER ISSUE	MJS
rev	date	description	eng

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architect

**STUDIO E LLP**

job title

**GRENFELL TOWER  
REGENERATION**

project leader date scale (at A3)  
**DC NOV' 2013 NTS**

drawing title

**CORE SERVICES  
SMOKE VENTILATION  
SCHEMATIC**

job no dwg no rev  
**4614 U(14)01\_200T2**

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