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5001 SQN RECONNAISSANCE REPORT

RAF Museum Hendon

Originators Reference	AIR 38Gp-A4 OpsB SO3 (Bruce, Phil Flt Lt) <AIR38Gp-A4OpsBSO3@mod.uk>
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TEAM LEADER	Rank & Name	Signature	Date
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SME	Name	Signature	Date
SNCO Ops Flt	Sgt Kennell	<i>(Original Signed)</i>	24/08/2016

Approval			
OC 5001 Sqn	Sqn Ldr Green	<i>(Original Signed)</i>	24/08/2016

Distribution:

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References:

- A. The Construction (Design and Management) Regulations 2015.
- B. JSP482 MOD Explosives Regulations.

EXECUTIVE SUMMARY

1. 5001 Sqn were requested to send representatives on the Specialist Team Royal Engineers (STRE) reconnaissance to RAF Museum, Hendon. 5001 Sqn were requested to provide advice on options WRT Technical Working Environment (TWE) buildings.
2. The site recce was carried out on the 18 Aug 2016. One potential site was viewed, which was the gravel car park. Figure 1 refers. It was recommended that a 25m x 28m Sunshade be utilised.

TASK

3. **Authority.** UK-04-01.
4. **Location.** RAF Museum, Hendon.
5. **Client Requirements.**
 - a. **Use.** To provide cover for 2x WWII RAF MTBs. Figure 2 refers.
 - b. **Space.** TWE is to have space for qty 2x RAF MTBs and viewing public.
 - c. **Environmental Conditioning.** A fully enclosed building is not suitable since the boats will need a 'drying out' period with plenty of ventilation
 - d. **Time.** To be erected prior to the RAF centenary celebrations - 2018.

SURVEY

6. **Date.** 18 Aug 2016.
7. **Conducted By.** FS Hellawell & Sgt Kennell

LOCATIONS

8. **Site 1.** Car Park:

- a. **Surface.** 56m x 45m parking area and laid of gravel. 529/532 STRE is to confirm that the car park is within the limit required for TWE construction. Figure 1 & 3 refers.
- b. **Slope.** TWE construction requires a slope of less than 1 in 100. Initial survey suggests the slope is within parameters; however, 529/532 STRE are to confirm that the car park is within the limit required for TWE construction.
- c. **Electrical.** A dedicated electrical supply will be required. Lightning Protection System (LPS) will be required.
- d. **Obstructions.** No obstructions directly overhead. Figure 1 refers.
- e. **Underground Services.** An Adobe PDF General Site Plan and Underground Services is available from 5001 Sqn Ops FS.

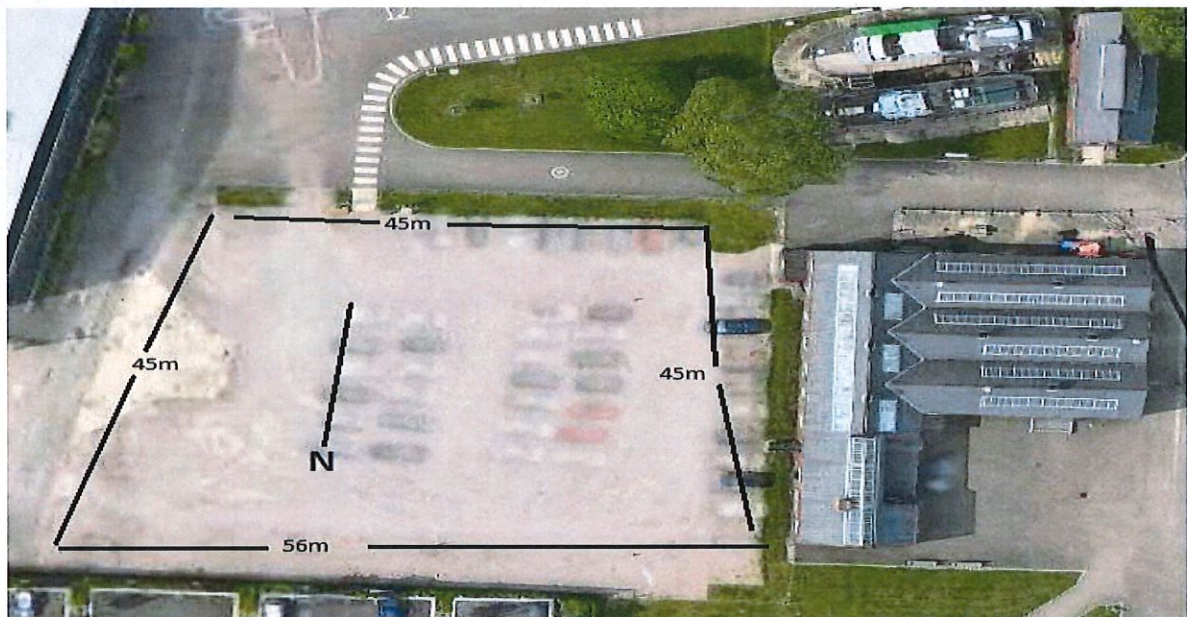


Figure 1 - Overview



Figure 2 - MTB



Figure 3 - Surface

TWE OPTION

11. Sunshade

a. Technical Specification.

1) Type and Doors. N/A

2) **Anchorage.** Subject to confirmation the concrete is to be C40 to BS 8110.
 Min cement content to be 325 KG/M.
 Concrete water / cement ratio 0.55
 Reinforcement to be high yield – FY 460 N/NM
 Cover to reinforcement to be 75mm
 Min lap on straight bars to be 500mm
 Ground to have min bearing capacity of 40 KN/M
 TWE will be anchored using 120mm x M20 chemical (Hilti RE 500 Resin) ground anchors.
 Concrete ring beam can be used¹.
 Concrete dimensions – 30m x 1m.

3) **Build Site.** A 25m RES requires a build site of 35m x 52m to facilitate construction.² Additional space is required for ISO containers.³

4) **Electrical Services.** Minimum aspiration is overhead lighting and 4x 240v Sockets. To be confirmed nearer the time of construction and in conjunction with RUBB.

¹ For concrete ring beam specification consult Rubb Buildings Ltd.

² 5m around each side of the TWE and 12m at each end.

³ The customer is required to store ISO containers for any future dismantling of the TWE. ISO containers may be removed from the build site after construction. The customer may use the ISO containers, but they are not to be modified in any way.