Visit by the British Embassy - Brazilian Technology Centre Mission to CEMAST

CEMAST

PMc
Peter Marsh Consulting Ltd.

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Phase 1 CEMAST

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- £**12m** project to create **4,000m2** of new build space scheduled to open in September 2014 creating a range of industry standard workshops in **Engineering** disciplines, providing an inspiring and welcoming learning environment and a new dynamic **landmark building** allowing the consolidation of specialist facilities within a dedicated building with **strong employer links**.

CEMAST funding partners

PMc
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SOLENT LOCAL ENTERPRISE PARTNERSHIP

Skills Funding Agency

Hampshire County Council

Job outputs pre-construction, during construction, staffing and post completion

Skills training in engineering, kick starting EZ development – loan funding

Growth in apprentices, skills progression and learner numbers

Addressing NEET issues, progression and supporting skills agenda

CEMAST

Partnerships, collaboration and progression

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Peter Marsh Consulting Ltd.

BAE SYSTEMS

NATS

VECTOR AEROSPACE

Sapphire AVIATION

Turbomeca
Groupe SAFRAN

B N
Britten-Norman

Virgin atlantic

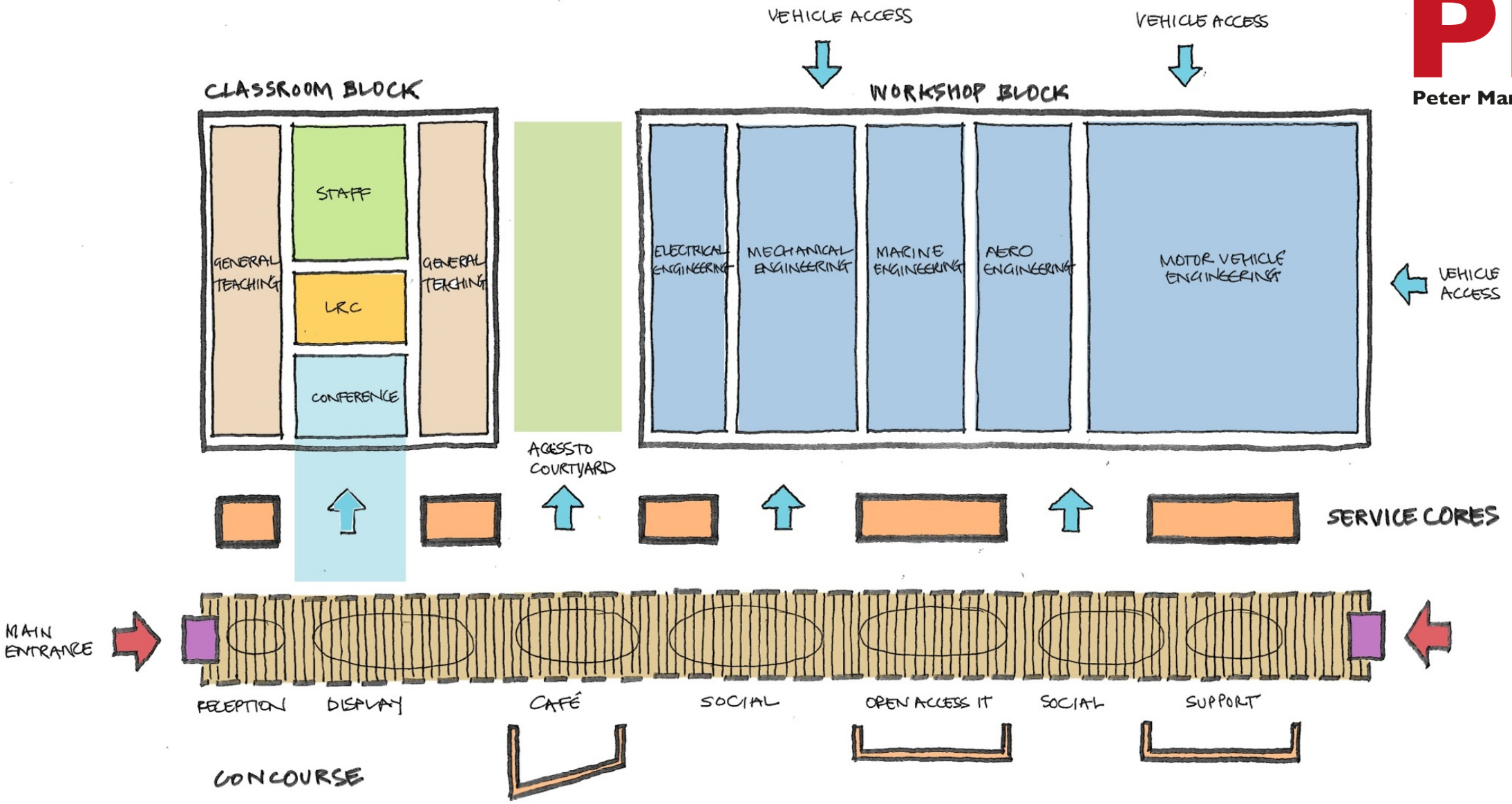
GE Aviation Systems
Reengineer the Sky

ECDIS

CEMAST key statistics

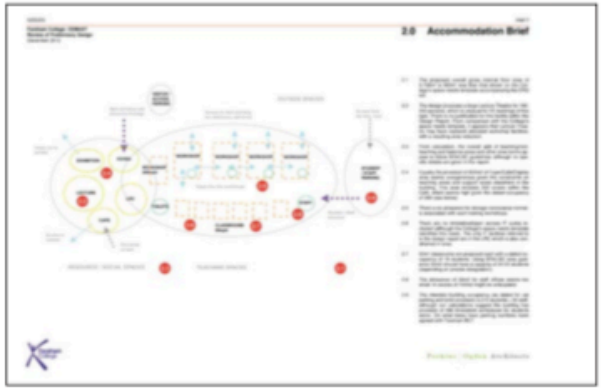
Peter Marsh Consulting Ltd.

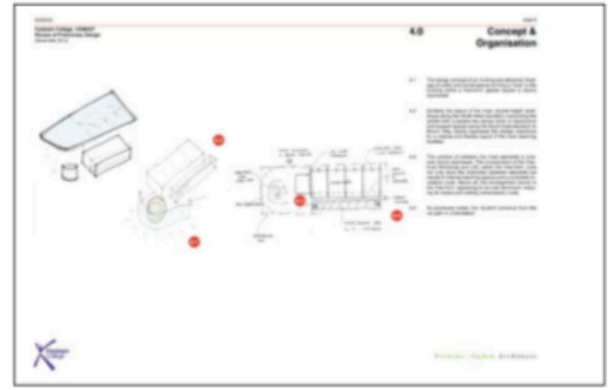
1. Over 400 learners each day Level 1 – Level 5
2. Aeronautical, Marine, Composites, General Engineering, Electrical Engineering, Automotive & Motor Sports
3. Up to 900 learners each week
4. 4,000m2 building
5. 14.5m2 per MNW – in line with SFA space targets
6. £12m project including land purchase, construction, fit out and VAT.
7. Phase 1 of a 4 Phase Property Strategy

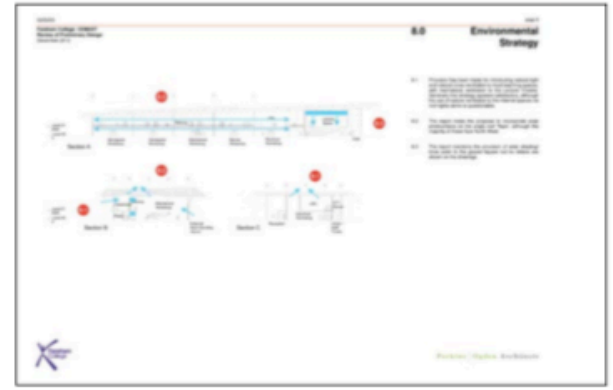


Curriculum offer Levels 1-5

Review of Preliminary Design

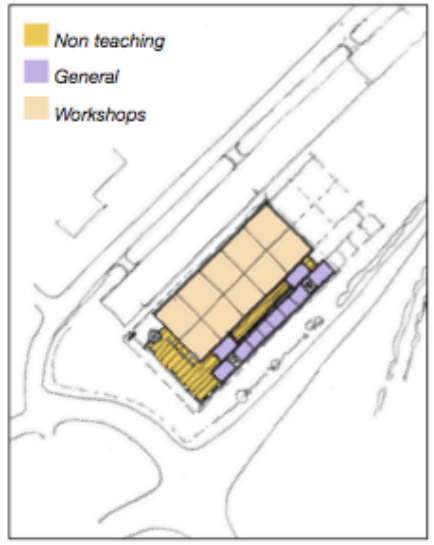




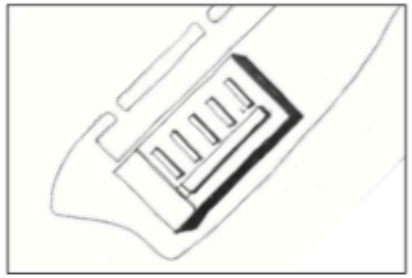


Fareham College: CEMAST
Pre Application Workshop
18 January 2013

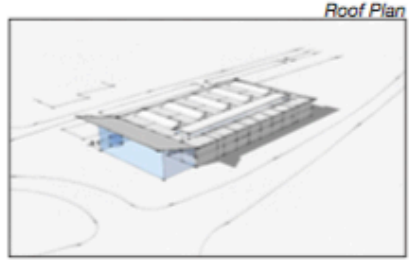
Design Development I



Floor Plan

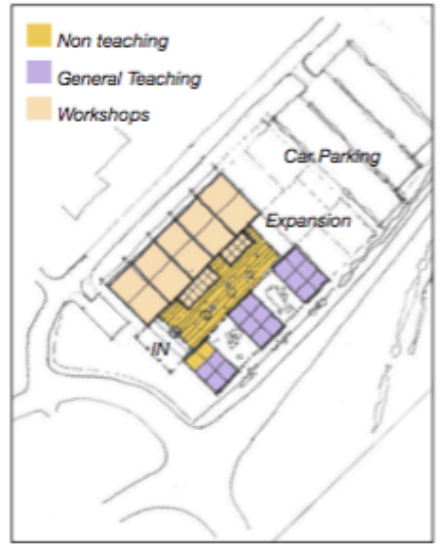


Roof Plan

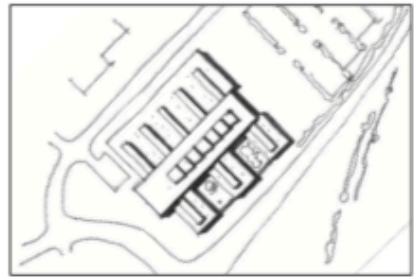


Massing

Option 1.1



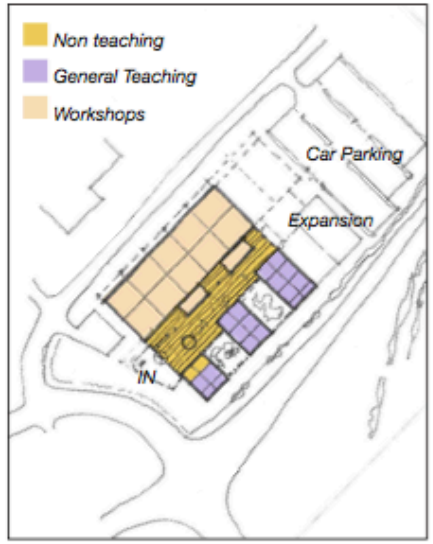
Floor Plan



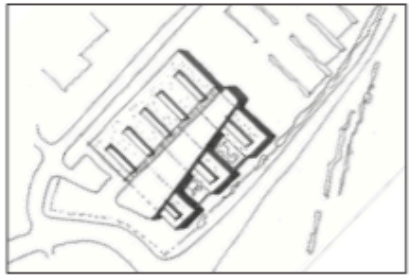
Roof Plan

Massing

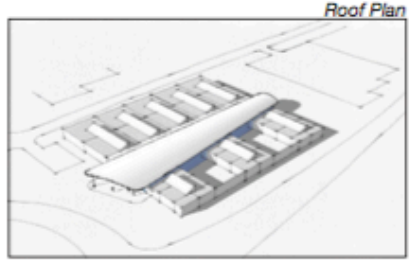
Option 2.1



Floor

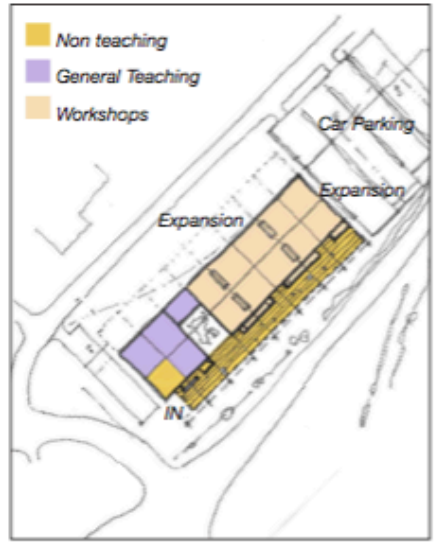


Roof Plan

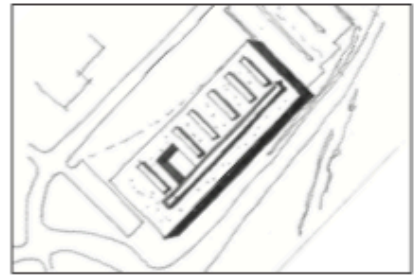


Massing

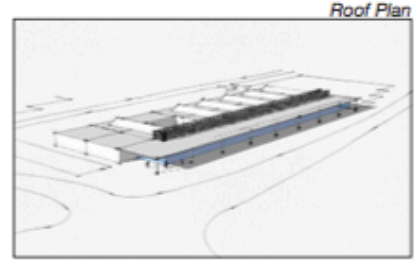
Option 2.2



Floor Plan



Roof Plan



Massing

Option 3.1

Fareham College: CEMAST
Pre Application Workshop
18 January 2013

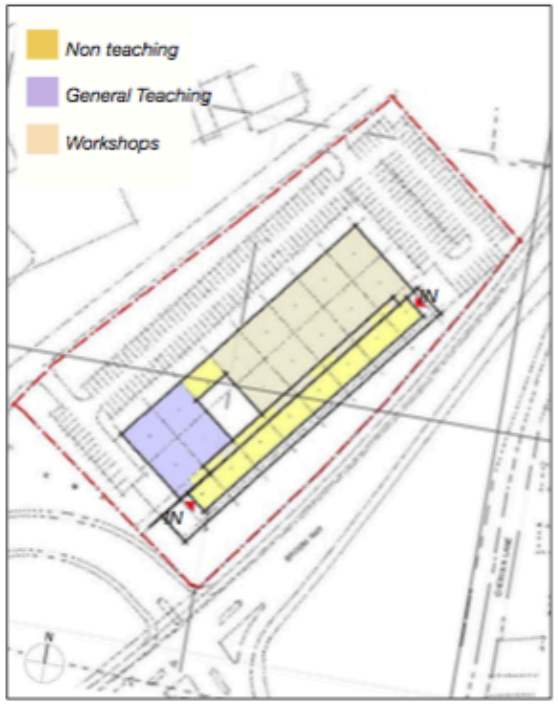
Design Development II

Floor Plan

Aerial Massing from south

Entrance Massing from south

Option 2.3



Floor Plan

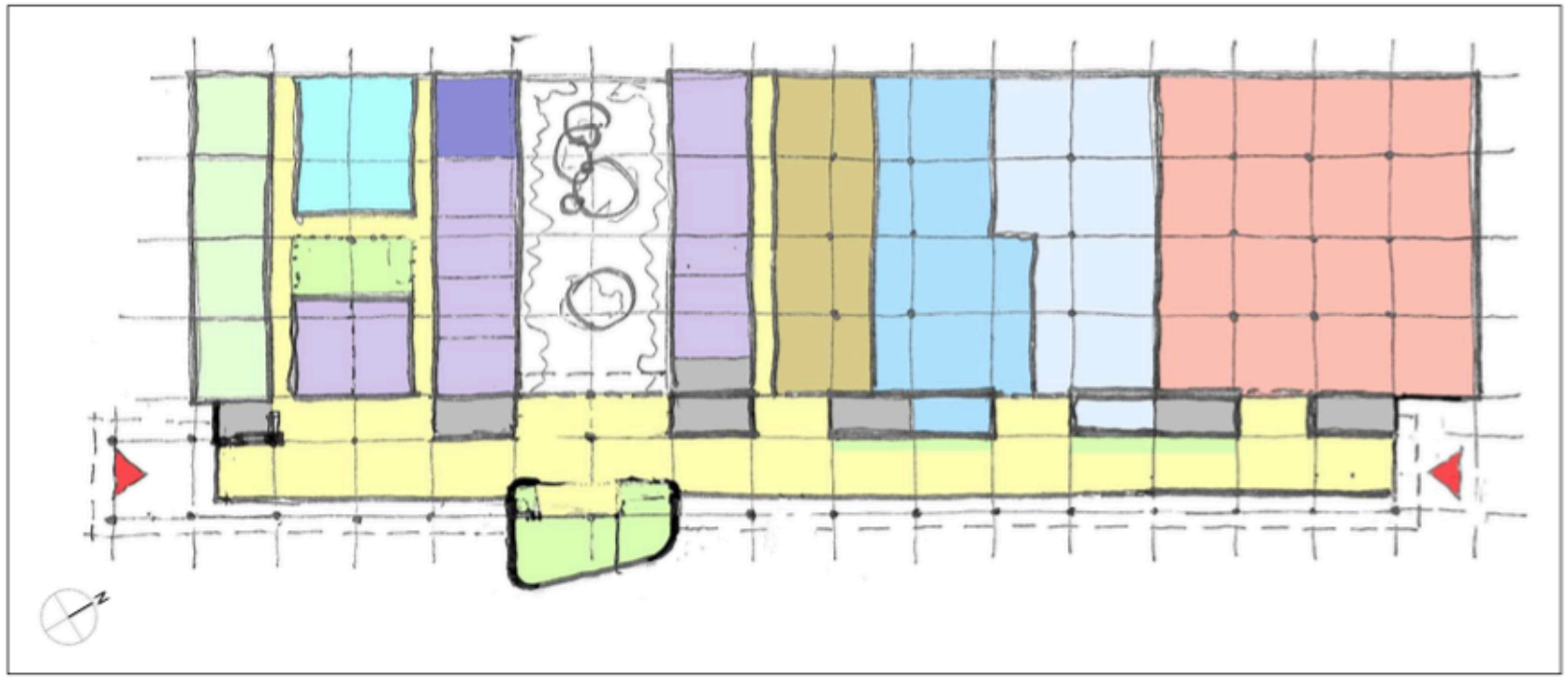
Aerial Massing from south

Entrance Massing from south

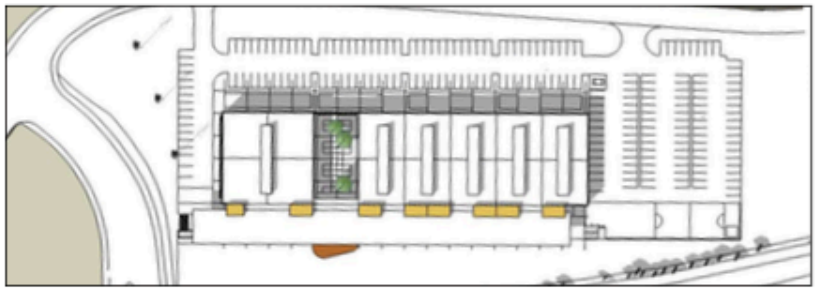
Option 3.2

Fareham College: CEMAST
Pre Application Workshop
18 January 2013

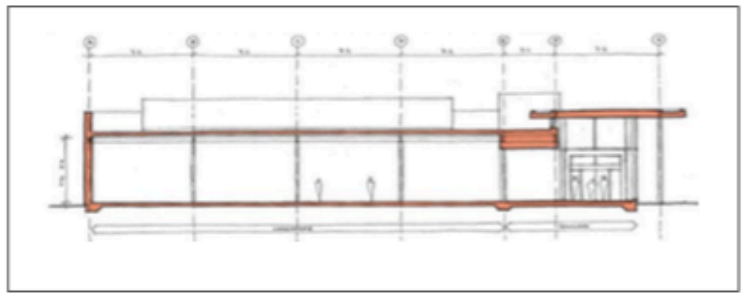
Preferred Option: Option 3.4a



Floor Plan



Roof Plan



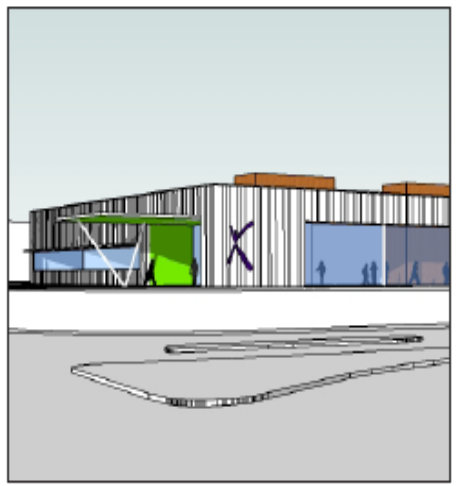
Cross Section

Description

- Development of Option 3.2;
- Fully glazed concourse with protuding cafe feature element;
- Concourse height increased, clerestory glazing to northwest;
- Linear concourse addresses Broom Way with curtain walling providing 'active frontage';
- Teaching and reception etc at 'head' addresses new access road and airfield;
- Secure landscaped 'island' external courtyard for sheltered amenity;
- Informal student playcourt provided to northeast;
- Northlights to workshops;
- Screened rooftop plant areas align to storage 'pods' below - colour/materials identity revealed through glass and visible at roof level;
- WC/Lockers/Storage zone between workshops and concourse;
- Sedum green roof to 'flat' roofed areas;
- Car parking to north and northeast;

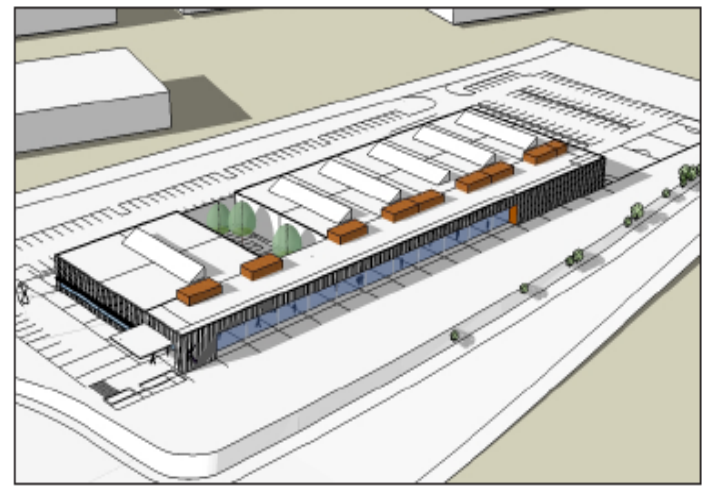
Option 3.3

Entrance Massing from south



Entrance Canopy Option

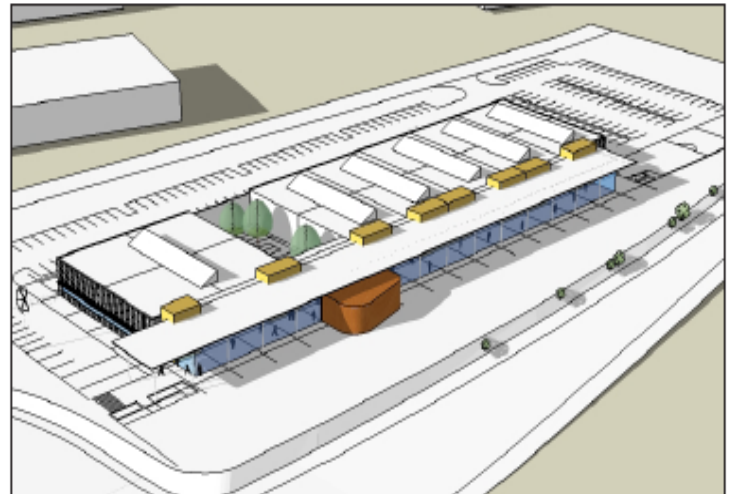
View from Broom Way (northwards approach)



Aerial View

Option 3.4a

Entrance Massing from south

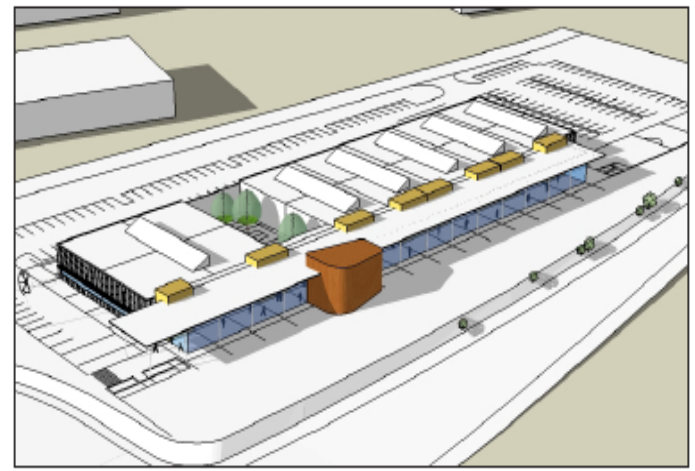


Option 3.4b

Entrance Massing from south

Main Entrance from access road

From Broom Way (northwards approach)



Aerial View

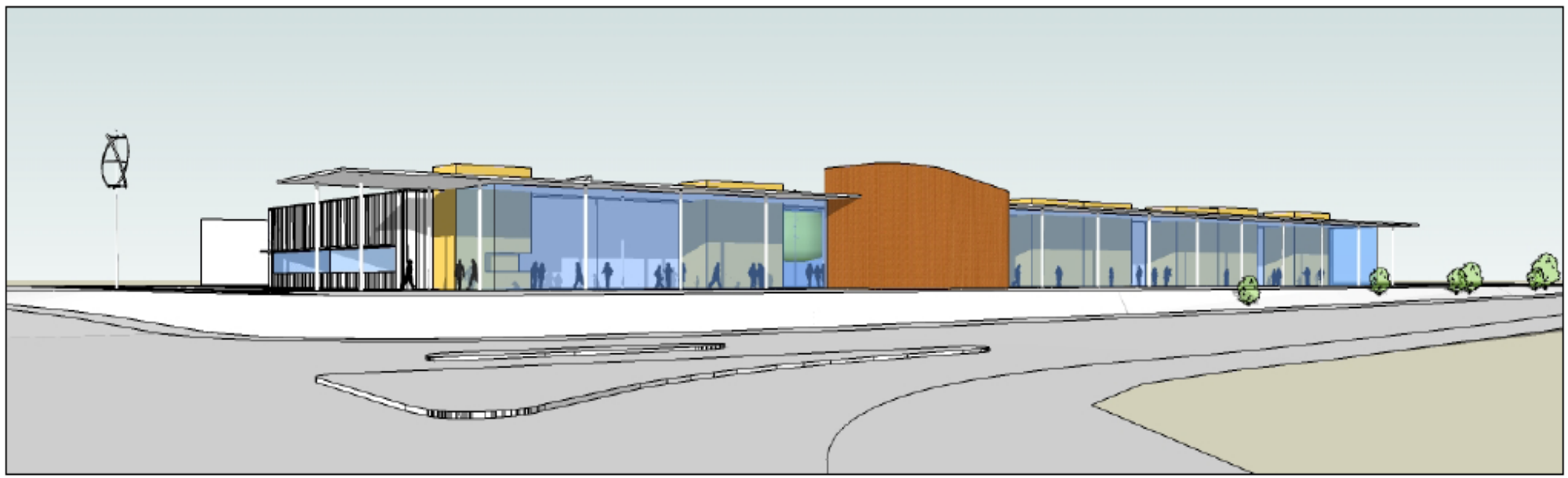
3.3 Summary

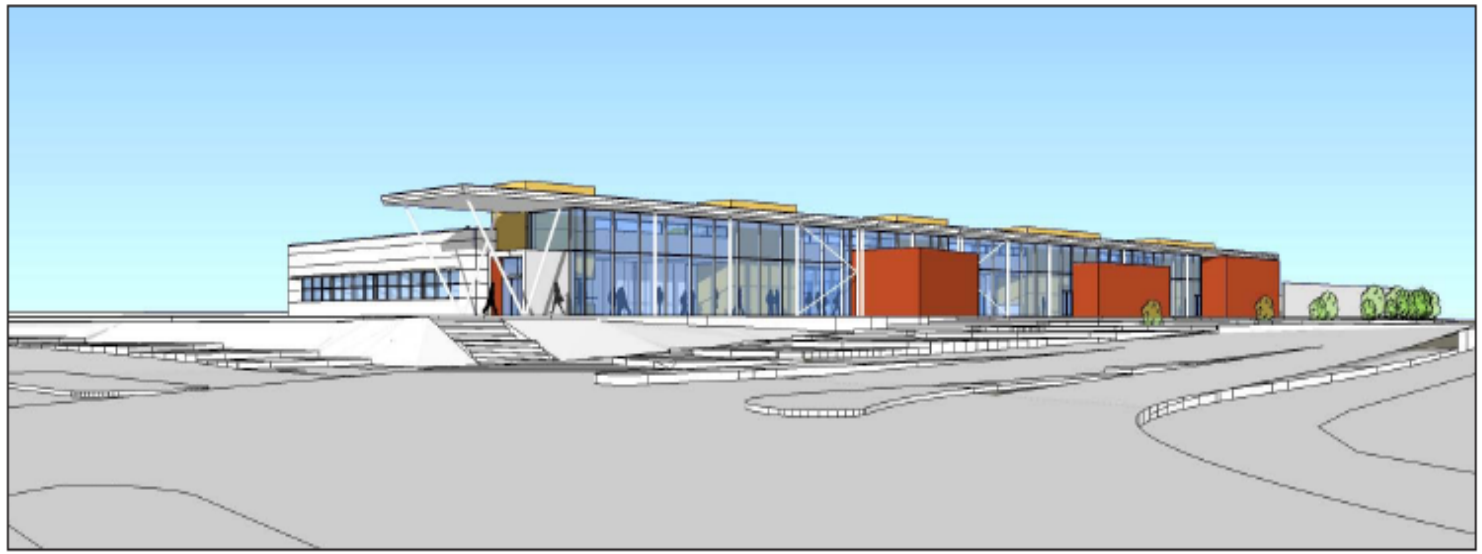
Option 3.3a

Option 3.3b

3.4 Summary

Option 3.4a





CEMAST

OPENING SEPTEMBER 2014

Fareham College

Solent Local Enterprise Partnership

Hampshire County Council

Regional Growth Fund

Skills Funding Agency

Homes & Communities Agency

£12 MILLION CENTRE OF EXCELLENCE FOR ENGINEERING, MANUFACTURING & ADVANCED SKILLS TRAINING

PHASE 1 OF A £26 MILLION JOINT INVESTMENT BY FAREHAM COLLEGE IN NEW LEARNING FACILITIES

Hampshire County Council

Scott White and Hookins
Structural and Civil Engineers
London Bedford Winchester
www.swh.co.uk

JACOBS
Project Managers Cost Consultants CDMC
Tower Bridge Court
266 Tower Bridge Road
London SE1 2UP
Tel: 020 7403 3330
www.jacobs.com

RIBA Chartered Architects
Perkins Ogden Architects Ltd
Tel: 01962 735155 www.perkinsogden.com

CEMAST - UNDERWAY

CEMAST Timescales for delivery

PMc
Peter Marsh Consulting Ltd.

- Funding secured July- November 2012
- Design team appointed December 2012
- Contractor appointed – February 2013
- Planning application – 4 March 2013
- Site surveys – March 2013
- Stage D/E design – March-May 2013
- Planning Permission – May 2013
- Sub-contractor procurement – May-July 2013
- Contract award under JCT98 – 7 August 2013
- Start on site – August 2013
- Practical Completion – 42 weeks June 2014
- Fit out and commissioning – July/August 2014
- Open for business – September 2014


MAST


Fareham College
Motor Vehicle Department
Customer CARE
KM53 MVK


B
3
CEMASTX
CEMASTX

Things that went well

PMc
Peter Marsh Consulting Ltd.

- **Programme certainty and acceleration:** 18 months from programme manager and architect appointment to target completion date
  De-risking with 2 stage tender: ground conditions & archaeology plus value engineering delivering 9% contract sum savings and removing all red construction risks
  Positive collaboration: design integrity maintained, final specification as per architect's planning drawings
  Change control : clear intent communicated to all of no changes after contract signed – focused customer/client engagement during stages C, D & E design process

Lessons Learnt

Peter Marsh Consulting Ltd.

- More external student recreational space would have helped (constrained site!)
- More cycles spaces (provided in week 6!)
- Wider food offer from start of operation.
- Glazing to conference rooms to give better natural light.