

LRB-2022-04 - Review of Condition 5 on planning permission 21/01525/FLL - Formation of all weather sports pitches and access road, erection of fencing, installation of floodlighting and associated works, land 100 metres south west of Goodlyburn Primary School, Crieff Road, Perth

INDEX

- (a) Papers submitted by the Applicant (***Pages 241-246***)
- (b) Decision Notice (***Pages 249-253***)
 - Report of Handling (***Pages 255-265***)
 - Reference Documents (***Pages 267-336***)
- (c) Representations (***Pages 337-356***)

LRB-2022-04 - Review of Condition 5 on planning permission 21/01525/FLL - Formation of all weather sports pitches and access road, erection of fencing, installation of floodlighting and associated works, land 100 metres south west of Goodlyburn Primary School, Crieff Road, Perth

**PAPERS SUBMITTED
BY THE
APPLICANT**

NOTICE OF REVIEW

UNDER SECTION 43A(8) OF THE TOWN AND COUNTRY PLANNING (SCOTLAND) ACT 1997 (AS AMENDED) IN
RESPECT OF DECISIONS ON LOCAL DEVELOPMENTS

THE TOWN AND COUNTRY PLANNING (SCHEMES OF DELEGATION AND LOCAL REVIEW PROCEDURE)
(SCOTLAND) REGULATIONS 2013

THE TOWN AND COUNTRY PLANNING (APPEALS) (SCOTLAND) REGULATIONS 2008

IMPORTANT: Please read and follow the guidance notes provided when completing this form.
Failure to supply all the relevant information could invalidate your notice of review.

Use **BLOCK CAPITALS** if completing in manuscript

Applicant(s)

Name

Address

Postcode

Contact Telephone 1

Contact Telephone 2

Fax No

E-mail*

Agent (if any)

Name

Address

Postcode

Contact Telephone 1

Contact Telephone 2

Fax No

E-mail*

Mark this box to confirm all contact should be
through this representative: ☒

* Do you agree to correspondence regarding your review being sent by e-mail?

Yes ☒ No ☐

Planning authority

Planning authority's application reference number

Site address

Description of proposed
development

Date of application

Date of decision (if any)

Note. This notice must be served on the planning authority within three months of the date of the decision notice or from the date of expiry of the period allowed for determining the application.

Nature of application

- | | |
|--|-------------------------------------|
| 1. Application for planning permission (including householder application) | <input checked="" type="checkbox"/> |
| 2. Application for planning permission in principle | <input type="checkbox"/> |
| 3. Further application (including development that has not yet commenced and where a time limit has been imposed; renewal of planning permission; and/or modification, variation or removal of a planning condition) | <input type="checkbox"/> |
| 4. Application for approval of matters specified in conditions | <input type="checkbox"/> |

Reasons for seeking review

- | | |
|---|-------------------------------------|
| 1. Refusal of application by appointed officer | <input type="checkbox"/> |
| 2. Failure by appointed officer to determine the application within the period allowed for determination of the application | <input type="checkbox"/> |
| 3. Conditions imposed on consent by appointed officer | <input checked="" type="checkbox"/> |

Review procedure

The Local Review Body will decide on the procedure to be used to determine your review and may at any time during the review process require that further information or representations be made to enable them to determine the review. Further information may be required by one or a combination of procedures, such as: written submissions; the holding of one or more hearing sessions and/or inspecting the land which is the subject of the review case.

Please indicate what procedure (or combination of procedures) you think is most appropriate for the handling of your review. You may tick more than one box if you wish the review to be conducted by a combination of procedures.

- | | |
|---|-------------------------------------|
| 1. Further written submissions | <input type="checkbox"/> |
| 2. One or more hearing sessions | <input type="checkbox"/> |
| 3. Site inspection | <input checked="" type="checkbox"/> |
| 4. Assessment of review documents only, with no further procedure | <input checked="" type="checkbox"/> |

If you have marked box 1 or 2, please explain here which of the matters (as set out in your statement below) you believe ought to be subject of that procedure, and why you consider further submissions or a hearing are necessary:

Site inspection

In the event that the Local Review Body decides to inspect the review site, in your opinion:

- | | Yes | No |
|--|-------------------------------------|--------------------------|
| 1. Can the site be viewed entirely from public land? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Is it possible for the site to be accessed safely, and without barriers to entry? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

If there are reasons why you think the Local Review Body would be unable to undertake an unaccompanied site inspection, please explain here:

Statement

You must state, in full, why you are seeking a review on your application. Your statement must set out all matters you consider require to be taken into account in determining your review. Note: you may not have a further opportunity to add to your statement of review at a later date. It is therefore essential that you submit with your notice of review, all necessary information and evidence that you rely on and wish the Local Review Body to consider as part of your review.

If the Local Review Body issues a notice requesting further information from any other person or body, you will have a period of 14 days in which to comment on any additional matter which has been raised by that person or body.

State here the reasons for your notice of review and all matters you wish to raise. If necessary, this can be continued or provided in full in a separate document. You may also submit additional documentation with this form.

We wish to put forward an appeal to condition 5 on the following grounds:

- 1.The installation of an acoustic fence would screen off and seclude a large area of the college. We fear this would encourage anti-social behaviour and create a larger problem for the College and the nearby residents.
- 2.Costs have been investigated for the acoustic fencing. Based on the length and height of the fencing conditioned, the project would incur an additional £55,550.00 (excluding VAT). This is a hugely significant sum and unfortunately makes the project unviable from a cost perspective.
- 3.We respect that New Acoustics are specialists in their field but we would request that the council re-consider the requirement for acoustic fencing. We have been working alongside New Acoustics to attempt to come up with a mutually agreeable solution. We have considered building 2 pitches in an attempt to lower costs however this has an impact on the funding available. The lower build cost is negatively off-set by a lower funding contribution.
- 4.The development of these pitches was to allow a greater sporting provision for college students but also for the wider community. The pitches could be used for recreational 5-a-side football, netball and general multi-sport which will also support and improve the health and wellbeing of all users.
- 5.The recent re-development of Bells Sports Centre has meant that Perth College UHI have had a high level of booking requests for the 5-a-side pitches; currently, bookings that we will not be able to accommodate.
- 6.A great deal of time and effort by many companies has taken place to get to this stage. The local community would benefit hugely from this facility hence why we ask that our request to remove this condition is considered. We would welcome the opportunity to meet with planning representatives in a bid to come to a feasible agreement.

Have you raised any matters which were not before the appointed officer at the time the determination on your application was made?

Yes ☐ No ☒

If yes, you should explain in the box below, why you are raising new material, why it was not raised with the appointed officer before your application was determined and why you consider it should now be considered in your review.

List of documents and evidence

Please provide a list of all supporting documents, materials and evidence which you wish to submit with your notice of review and intend to rely on in support of your review.

Note. The planning authority will make a copy of the notice of review, the review documents and any notice of the procedure of the review available for inspection at an office of the planning authority until such time as the review is determined. It may also be available on the planning authority website.

Checklist

Please mark the appropriate boxes to confirm you have provided all supporting documents and evidence relevant to your review:

- ☒ Full completion of all parts of this form
- ☒ Statement of your reasons for requiring a review
- ☐ All documents, materials and evidence which you intend to rely on (e.g. plans and drawings or other documents) which are now the subject of this review.

Note. Where the review relates to a further application e.g. renewal of planning permission or modification, variation or removal of a planning condition or where it relates to an application for approval of matters specified in conditions, it is advisable to provide the application reference number, approved plans and decision notice from that earlier consent.

Declaration

I the applicant/agent [delete as appropriate] hereby serve notice on the planning authority to review the application as set out on this form and in the supporting documents.

Signed



Date

24.02.22

LRB-2022-04 - Review of Condition 5 on planning permission 21/01525/FLL - Formation of all weather sports pitches and access road, erection of fencing, installation of floodlighting and associated works, land 100 metres south west of Goodlyburn Primary School, Crieff Road, Perth

PLANNING DECISION NOTICE

REPORT OF HANDLING

REFERENCE DOCUMENTS



Perth College UHI
c/o Sports Labs Ltd
Louise O'Rourke
1 Adam Square
Livingston
West Lothian
EH54 9DE

Pullar House
35 Kinnoull Street
PERTH
PH1 5GD

Date of Notice: **3rd December 2021**

Town and Country Planning (Scotland) Acts.

Application Number **21/01525/FLL**

I am directed by the Planning Authority under the Town and Country Planning (Scotland) Acts currently in force, to grant your application registered on 6th October 2021 for planning permission for Formation of all weather sports pitches and access road, erection of fencing, installation of floodlighting and associated works
at Land 100 Metres South West Of Goodlyburn Primary School Crieff Road Perth
subject to the undernoted conditions.

David Littlejohn
Head of Planning and Development

Conditions referred to above

- 1 The development hereby approved must be carried out in accordance with the approved drawings and documents, unless otherwise provided for by conditions imposed by this decision notice.

Reason - To ensure the development is carried out in accordance with the approved drawings and documents.

- 2 Prior to the commencement of the development hereby approved, the developer shall submit for the further written agreement of the Council as Planning Authority, in consultation with the Roads Authority (Structures), a Construction Traffic Management Scheme (TMS) which shall include the following:
 - (a) Restriction of construction traffic to approved routes and the measures to be put in place to avoid other routes being used.

- (b) Timing of construction traffic to minimise impact on local communities particularly at school start and finishing times, on days when refuse collection is undertaken, on Sundays and during local events.
- (c) A code of conduct for HGV drivers to allow for queuing traffic to pass.
- (d) Arrangements for liaison with the Roads Authority regarding winter maintenance.
- (e) Emergency arrangements detailing communication and contingency arrangements in the event of vehicle breakdown.
- (f) Arrangements for the cleaning of wheels and chassis of vehicles to prevent material from construction sites associated with the development being deposited on the road.
- (g) Arrangements for cleaning of roads affected by material deposited from construction sites associated with the development.
- (h) Arrangements for signage at site accesses and crossovers and on roads to be used by construction traffic in order to provide safe access for pedestrians, cyclists and equestrians.
- (i) Details of information signs to inform other road users of construction traffic.
- (j) Arrangements to ensure that access for emergency service vehicles are not impeded.
- (k) Co-ordination with other significant developments known to use roads affected by construction traffic.
- (l) Traffic arrangements in the immediate vicinity of temporary construction compounds.
- (m) The provision and installation of traffic counters at the applicant's expense at locations to be agreed prior to the commencement of construction.
- (n) Monitoring, reporting and implementation arrangements.
- (o) Arrangements for dealing with non-compliance; and
- (p) Details of HGV movements to and from the site.

The TMS as approved shall be strictly adhered to during the entire site construction programme.

Reason - In the interests of pedestrian and traffic safety.

- 3 Prior to the commencement of the development hereby approved, a Noise Management Plan shall be submitted for the written approval of the Planning Authority. The plan shall include all sources of noise associated with the use of the multi-use games area premise, including user noise and activity noise and the measures that will be put in place to minimise and/or control noise. The plan shall be reviewed on a regular basis or, following receipt of a justified complaint or at the request of the Planning Authority. Once the Noise Management Plan has been approved, it shall be fully implemented for the lifetime of the development, to the satisfaction of the Council as Planning Authority.

Reason - In order to safeguard the neighbouring residential amenity in the area.

- 4 The hours of operational use of the pitch and floodlights are limited to Monday to Friday 0900 to 2200 hours, Saturday 0900 to 1800 hours, and Sunday 0900 to 2100 hours.

Reason - In order to safeguard the neighbouring residential amenity in the area.

- 5 Prior to the completion or bringing into use of the development, whichever is the earlier, acoustic barriers shall be installed in line with the recommendations in the Noise Impact Assessment Report No. 7387-00-02 dated 18th November 2021 and in accordance with the layout plan in Appendix 7 of the report. Thereafter, the acoustic barriers shall be retained for the life of the development, to the satisfaction of the Council as Planning Authority.

Reason - In order to safeguard the neighbouring residential amenity in the area.

- 6 All external lighting shall be sufficiently screened and aligned so as to ensure that there is no direct illumination of neighbouring land and that light spillage beyond the boundaries of the site is minimised to a degree that it does not adversely affect the amenity of the neighbouring land.

Reason - In order to safeguard the residential amenity of the area.

- 7 All artificial lighting to the development must conform to requirements to meet the Obtrusive Light Limitations for Exterior Lighting Installations for Environmental Zone - E3 contained within Table 2 of the Institute of Light Engineers Guidance Notes for the Reduction of Obtrusive Lighting, GN01, dated 2011.

Reason - In order to safeguard the residential amenity of the area.

- 8 The new synthetic pitch hereby approved shall be designed and constructed by a recognised (eg SAPCA* registered) specialist pitch contractor. Prior to the commencement of development, details of the contractor and pitches specification (including dimensions) shall be submitted for the written approval of the Planning Authority. Thereafter, the development shall be undertaken in line with the agreed scheme. *SAPCA is The Sports and Play Construction Association (www.sapca.org.uk).

Reason - To ensure an appropriate standard of pitch facilities.

Justification

The proposal is contrary to the Development Plan but there are material reasons which justify departing from the Development Plan.

Informatives

- 1 This planning permission will last only for three years from the date of this decision notice, unless the development has been started within that period (see section 58(1) of the Town and Country Planning (Scotland) Act 1997 (as amended)).
- 2 Under section 27A of the Town and Country Planning (Scotland) Act 1997 (as amended) the person undertaking the development is required to give the planning authority prior written notification of the date on which it is intended to commence the development. A failure to comply with this statutory requirement would constitute a breach of planning control under section 123(1) of that Act, which may result in enforcement action being taken.

- 3 As soon as practicable after the development is complete, the person who completes the development is obliged by section 27B of the Town and Country Planning (Scotland) Act 1997 (as amended) to give the planning authority written notice of that position.
- 4 No work shall be commenced until an application for building warrant has been submitted and approved.
- 5 This planning permission is granted subject to conditions, some of which require further information to be submitted to Development Management either before works can start on site or at a certain time. The required information must be submitted via the ePlanning portal if your original application was lodged that way, otherwise send it to us at developmentmanagement@pkc.gov.uk. Please be aware that the Council has two months to consider the information (or four months in the case of a Major planning permission). You should therefore submit the required information more than two months (or four months) before your permission expires. We cannot guarantee that submissions made within two months (or four months) of the expiry date of your permission will be able to be dealt with before your permission lapses.
- 6 The applicant is advised that any proposed signage will require a further application to be submitted for advertisement consent unless it benefits from express consent as per the Town and Country Planning (Control of Advertisements) (Scotland) Regulations 1984.
- 7 The applicant should take note of the information and advice contained within the consultation response from Scottish Water.
- 8 This development will require the 'Display of notice while development is carried out', under Section 27C (1) of the Town and Country Planning Act 1997, as amended, and Regulation 41 of the Development Management Procedure (Scotland) Regulations 2013. The form of the notice is set out in Schedule 7 of the Regulations and a draft notice is included for your guidance. In accordance with Regulation 41 the notice must be:

Displayed in a prominent place at or in the vicinity of the site of the development.
Readily visible to the public.
Printed on durable material.

The plans and documents relating to this decision are listed below and are displayed on Perth and Kinross Council's website at www.pkc.gov.uk "Online Planning Applications" page

Plan and Document Reference

01

02

03

04

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REPORT OF HANDLING

DELEGATED REPORT

Ref No	21/01525/FLL	
Ward No	P11- Perth City North	
Due Determination Date	5th December 2021	
Draft Report Date	3rd December 2021	
Report Issued by	Sean Panton	Date: 3 rd December 2021

PROPOSAL: Formation of all weather sports pitches and access road, erection of fencing, installation of floodlighting and associated works.

LOCATION: Land 100 Metres South West of Goodlyburn Primary School, Crieff Road, Perth.

SUMMARY:

This report recommends **approval** of the application contrary to the relevant provisions of the Development Plan as there are sufficient material considerations apparent which outweigh the Development Plan.

SITE VISIT:

In line with established practices, the need to visit the application site has been carefully considered by the case officer. The application site and its context have been viewed by a variety of remote and electronic means, such as aerial imagery and Streetview, in addition to photographs submitted by interested parties.

This information has meant that, in this case, it is possible and appropriate to determine this application without a physical visit as it provides an acceptable basis on which to consider the potential impacts of this proposed development.

SITE PHOTOGRAPHS



BACKGROUND AND DESCRIPTION OF PROPOSAL

The application site is on land 100 Metres South West of Goodlyburn Primary School, Crieff Road, Perth. The site forms part of the Perth College UHI campus and is designated as open space within the adopted Perth & Kinross Local Development Plan 2 (2019). The application seeks detailed planning permission for the formation of all weather sports pitches and an access road, the erection of fencing, the installation of floodlighting and associated works. 3x 3G pitches at 35metres by 20metres will be incorporated into the design facilitating 5-a-side football, netball and hockey training. The applicant is Perth College Academy of Sport and Wellbeing, who are based in the newly constructed building to the immediate North of the site.

SITE HISTORY

Whilst there is significant site history associated with the wider College Campus, there is no site history directly relevant to this proposal.

PRE-APPLICATION CONSULTATION

No formal pre-application consultation undertaken.

NATIONAL POLICY AND GUIDANCE

The Scottish Government expresses its planning policies through The National Planning Framework, the Scottish Planning Policy (SPP), Planning Advice Notes (PAN), Creating Places, Designing Streets, National Roads Development Guide and a series of Circulars.

DEVELOPMENT PLAN

The Development Plan for the area comprises the TAYplan Strategic Development Plan 2016-2036 and the Perth and Kinross Local Development Plan 2 (2019).

TAYplan Strategic Development Plan 2016 – 2036 - Approved October 2017

Whilst there are no specific policies or strategies directly relevant to this proposal the overall vision of the TAYplan should be noted. The vision states *“By 2036 the TAYplan area will be sustainable, more attractive, competitive and vibrant without creating an unacceptable burden on our planet. The quality of life will make it a place of first choice where more people choose to live, work, study and visit, and where businesses choose to invest and create jobs.”*

Perth and Kinross Local Development Plan 2 – Adopted November 2019

The Local Development Plan 2 (LDP2) is the most recent statement of Council policy and is augmented by Supplementary Guidance.

The principal policies are:

- Policy 1A: Placemaking
- Policy 1B: Placemaking
- Policy 2: Design Statements
- Policy 3: Perth City
- Policy 13: Retail and Commercial Leisure Proposals
- Policy 14A: Open Space Retention and Provision: Existing Areas
- Policy 17: Residential Areas
- Policy 39: Landscape
- Policy 53C: Water Environment and Drainage: Surface Water Drainage
- Policy 55: Nuisance from Artificial Light and Light Pollution
- Policy 56: Noise Pollution
- Policy 60B: Transport Standards and Accessibility Requirements: New Development Proposals

OTHER POLICIES

Placemaking Supplementary Guidance 2020

The Council has prepared Placemaking Supplementary Guidance (2020) to support Policy 1 (Placemaking) of the Perth and Kinross Local Development Plan 2 (2019). It is to be used in the assessment of planning applications and to assist in the placemaking process.

CONSULTATION RESPONSES

Internal

Environmental Health (Noise Odour):

The Council's Environmental Health Team initially objected to the proposed development on grounds of a lack of information in relation to noise. A Noise Impact Assessment was consequently requested and submitted and Environmental Health now have no objection to the proposed development, subject to various conditions in relation to noise control, lighting control, and hours of operation.

Development Contributions Officer:
No contributions required.

Transport Planning:

No objection to the proposed development, subject to conditional control regarding a Construction Traffic Management Scheme.

External

Scottish Water:

No objection to the proposed development.

Sport Scotland:

No objection to the proposed development, subject to conditional control regarding the standard of construction of the pitches.

Health & Safety Executive (HSE):

HSE do not advise against the granting of planning permission in this location.

REPRESENTATIONS

No letters of representation were received regarding the proposed development.

ADDITIONAL STATEMENTS

Screening Opinion	EIA Not Required
Environmental Impact Assessment (EIA): Environmental Report	Not Required
Appropriate Assessment	Habitats Regulations: AA Not Required
Design Statement or Design and Access Statement	Submitted
Report on Impact or Potential Impact eg Flood Risk Assessment	Submitted: <ul style="list-style-type: none">• Noise Impact Assessment• Floodlight Impact Study

APPRAISAL

Sections 25 and 37 (2) of the Town and Country Planning (Scotland) Act 1997 require that planning decisions be made in accordance with the development plan unless material considerations indicate otherwise. The Development Plan for the area comprises the approved TAYplan and the adopted LDP2.

The determining issues in this case are whether; the proposal complies with development plan policy; or if there are any other material considerations which justify a departure from policy.

Policy Appraisal

The site forms part of the Perth College UHI campus and is designated as open space within the adopted Perth & Kinross Local Development Plan 2 (2019). Policy 14A 'Open Space Retention and Provision' is therefore directly applicable. This policy seeks to protect areas of open space from development except in circumstances where the proposed development will enhance the recreational use of the site or only involves a minor part of the

site. In this instance, whilst a large proportion of the open space will be retained, the proposal cannot be considered to only develop a minor part of the site as the scale of the development is relatively significant. Attention now turn towards whether the development will enhance the recreational use of the site. The proposal will undoubtedly enhance the recreational use of the site due to improved facilities. However, these facilities will only be able to be used by those who are part of a club, a member of the Academy of Sport or Wellbeing, or attending an event. The proposal will not be readily accessible for members of the public who may currently use this area for informal recreation.

Consideration must also be given towards the nature of development and the availability of land on the campus for such developments. It is common for university campuses to have facilities such as this and there are currently none on this campus. The area chosen is practical as it is immediately adjacent the Academy of Sport and Wellbeing on an area of relatively flat land. The site chosen appears to be the most suitable on the campus for this nature of development.

Taking the above into account, overall, it is considered that the proposed development will be of benefit to the area. Whilst the public may not be able to informally use the pitches, there is sufficient remaining open space for informal use and the opportunity to use the pitches as part of a club or the College etc will be there. On this basis, it is considered that although a minor departure from the development plan due to the loss of open space, the proposal will be of merit to the area and thus it is considered that the principle of the development in this location is acceptable.

Design and Layout

The design of the scheme is what is expected from this nature of development and raises no adverse concerns. Sport Scotland were consulted as part of this application and whilst have no objection to offer, recommended conditional control to ensure that the pitches are constructed to an appropriate recognised standard. Condition 8 will therefore be applied to the permission accordingly to ensure that the design of the pitches is suitable.

With regards to layout, the proposal has been well sited to respect neighbouring developments, whilst also being in close proximity to the existing Academy of Sport and Wellbeing for ease of use. The proposal will not appear out of character in this location as this is what is expected on a university campus such as this.

Overall, it is considered that there are no concerns in relation to design and layout.

Landscaping and Visual Amenity

The site under question is currently laid to lawn and contributes positively to the landscape value and visual amenity of the area. However, it is considered

that the proposal can be accommodated without being of detriment to these values. Sufficient green space will remain and the scale of the proposed development will not dominate the site as a whole. It is therefore considered that there are no policy implications in relation to Policy 39 'Landscape'.

Residential Amenity

The proposed development was advertised as a 'Bad Neighbour' development due to the potential loss of amenity to neighbouring receptors. This is primarily due to noise and artificial light disturbance.

The Council's Environmental Health Team were consulted as part of this application and initially objected to the proposed development on grounds of a lack of information in relation to noise. A Noise Impact Assessment was consequently requested and submitted. This was reviewed in line with the other submitted documentation, such as the Flood Lighting Impact Study, and Environmental Health now have no objection to the proposed development, subject to various conditions in relation to noise control, lighting control, and hours of operation. These conditions (conditions 3-7) will ensure that existing amenity is protected and the operation of the pitches is controlled. It is therefore considered that there are no adverse concerns in relation to Policy 17 'Residential Areas', Policy 55 'Nuisance from Artificial Light and Light Pollution', and Policy 56 'Noise Pollution', which cannot be controlled via the recommended conditions. It is also noted that despite being notified as a 'Bad Neighbour' development and 26 addresses being neighbour notified, no objections were received regarding the proposed development.

Roads and Access

Perth College UHI Campus already has a significant amount of parking available and is well served by public transport and footpath links. The level of traffic likely to be generated by the proposed development is likely to be suitably accommodated by the existing roads and access arrangements. The Council's Transport Planning Team were consulted as part of this application and have no objection to offer, subject to conditional control regarding a Construction Traffic Management Scheme. This condition (condition 2) will therefore be applied to ensure that there are no adverse impacts to the existing roads and access arrangements during the construction period. It will also ensure appropriate road safety measures are in place taking account of the neighbouring primary school. It is therefore considered that there are no policy implications in relation to Policy 60B 'Transport Standards and Accessibility Requirements'.

Drainage and Flooding

The site is not located in an area of identified flood risk and the proposals are not considered to increase the risk of flooding or create any drainage concerns. An informative (informative 7) will be added to the permission directing the applicant towards the response from Scottish Water which contains advice in relation to surface water drainage.

Conservation Considerations

The site is not located within a conservation area and there are no listed buildings or other designated sites of historical interest in close proximity to the site. It is therefore considered that there are no conservation implications.

Natural Heritage and Biodiversity

The site is currently laid to grass with little natural heritage or biodiversity value. It is therefore considered that the development of this site will have no adverse impact upon the natural heritage and biodiversity of the area.

Developer Contributions

The Developer Contributions Officer was consulted as part of this application and confirmed that no contributions are required.

Economic Impact

The proposed development will enhance the facilities on offer at Perth College Academy of Sport and Wellbeing which is likely to have a positive economic impact upon the local area. There is also likely to be some short term economic gain from the construction phase of the development.

VARIATION OF APPLICATION UNDER SECTION 32A

None required.

PLANNING OBLIGATIONS AND LEGAL AGREEMENTS

None required.

DIRECTION BY SCOTTISH MINISTERS

None applicable to this proposal.

CONCLUSION AND REASONS FOR DECISION

In conclusion, the application must be determined in accordance with the adopted Development Plan unless material considerations indicate otherwise. In this respect, the proposal does not comply with Policy 14A 'Open Space Retention and Provision' of the adopted Local Development Plan 2 (2019). However, account has been taken of material considerations and it is considered that there is sufficient justification in this instance to permit the development contrary to the adopted Development Plan.

Accordingly, the proposal is approved subject to the following conditions:

Conditions and Reasons

- 1 The development hereby approved must be carried out in accordance with the approved drawings and documents, unless otherwise provided for by conditions imposed by this decision notice.

Reason - To ensure the development is carried out in accordance with the approved drawings and documents.

- 2 Prior to the commencement of the development hereby approved, the developer shall submit for the further written agreement of the Council as Planning Authority, in consultation with the Roads Authority (Structures), a Construction Traffic Management Scheme (TMS) which shall include the following:

- (a) restriction of construction traffic to approved routes and the measures to be put in place to avoid other routes being used;
- (b) timing of construction traffic to minimise impact on local communities particularly at school start and finishing times, on days when refuse collection is undertaken, on Sundays and during local events;
- (c) a code of conduct for HGV drivers to allow for queuing traffic to pass;
- (d) arrangements for liaison with the Roads Authority regarding winter maintenance;
- (e) emergency arrangements detailing communication and contingency arrangements in the event of vehicle breakdown;
- (f) arrangements for the cleaning of wheels and chassis of vehicles to prevent material from construction sites associated with the development being deposited on the road;
- (g) arrangements for cleaning of roads affected by material deposited from construction sites associated with the development;
- (h) arrangements for signage at site accesses and crossovers and on roads to be used by construction traffic in order to provide safe access for pedestrians, cyclists and equestrians;
- (i) details of information signs to inform other road users of construction traffic;
- (j) arrangements to ensure that access for emergency service vehicles are not impeded;
- (k) co-ordination with other significant developments known to use roads affected by construction traffic;
- (l) traffic arrangements in the immediate vicinity of temporary construction compounds;
- (m) the provision and installation of traffic counters at the applicant's expense at locations to be agreed prior to the commencement of construction;
- (n) monitoring, reporting and implementation arrangements;
- (o) arrangements for dealing with non-compliance; and
- (p) details of HGV movements to and from the site.

The TMS as approved shall be strictly adhered to during the entire site construction programme

Reason - In the interests of pedestrian and traffic safety.

- 3 Prior to the commencement of the development hereby approved, a Noise Management Plan shall be submitted for the written approval of the Planning Authority. The plan shall include all sources of noise associated with the use of the multi-use games area premise, including user noise and activity noise and the measures that will be put in place to minimise and/or control noise. The plan shall be reviewed on a regular basis or, following receipt of a justified complaint or at the request of the Planning Authority. Once the Noise Management Plan has been approved, it shall be fully implemented for the lifetime of the development, to the satisfaction of the Council as Planning Authority.

Reason - In order to safeguard the neighbouring residential amenity in the area.

- 4 The hours of operational use of the pitch and floodlights are limited to Monday to Friday 0900 to 2200 hours, Saturday 0900 to 1800 hours, and Sunday 0900 to 2100 hours.

Reason - In order to safeguard the neighbouring residential amenity in the area.

- 5 Prior to the completion or bringing into use of the development, whichever is the earlier, acoustic barriers shall be installed in line with the recommendations in the Noise Impact Assessment Report No. 7387-00-02 dated 18th November 2021 and in accordance with the layout plan in Appendix 7 of the report. Thereafter, the acoustic barriers shall be retained for the life of the development, to the satisfaction of the Council as Planning Authority.

Reason - In order to safeguard the neighbouring residential amenity in the area.

- 6 All external lighting shall be sufficiently screened and aligned so as to ensure that there is no direct illumination of neighbouring land and that light spillage beyond the boundaries of the site is minimised to a degree that it does not adversely affect the amenity of the neighbouring land.

Reason - In order to safeguard the residential amenity of the area.

- 7 All artificial lighting to the development must conform to requirements to meet the Obtrusive Light Limitations for Exterior Lighting Installations for Environmental Zone - E3 contained within Table 2 of the Institute of Light Engineers Guidance Notes for the Reduction of Obtrusive Lighting, GN01, dated 2011.

Reason - In order to safeguard the residential amenity of the area.

- 8 The new synthetic pitch hereby approved shall be designed and constructed by a recognised (eg SAPCA* registered) specialist pitch contractor. Prior to the commencement of development, details of the contractor and pitches specification (including dimensions) shall be submitted for the written approval of the Planning Authority. Thereafter, the development shall be undertaken in line with the agreed scheme.
*SAPCA is The Sports and Play Construction Association
(www.sapca.org.uk)

Reason - To ensure an appropriate standard of pitch facilities.

Justification

The proposal is contrary to the Development Plan however there are material reasons which justify departing from the Development Plan.

Informatives

- 1 This planning permission will last only for three years from the date of this decision notice, unless the development has been started within that period (see section 58(1) of the Town and Country Planning (Scotland) Act 1997 (as amended)).
- 2 Under section 27A of the Town and Country Planning (Scotland) Act 1997 (as amended) the person undertaking the development is required to give the planning authority prior written notification of the date on which it is intended to commence the development. A failure to comply with this statutory requirement would constitute a breach of planning control under section 123(1) of that Act, which may result in enforcement action being taken.
- 3 As soon as practicable after the development is complete, the person who completes the development is obliged by section 27B of the Town and Country Planning (Scotland) Act 1997 (as amended) to give the planning authority written notice of that position.
- 4 No work shall be commenced until an application for building warrant has been submitted and approved.
- 5 This planning permission is granted subject to conditions, some of which require further information to be submitted to Development Management either before works can start on site or at a certain time. The required information must be submitted via the ePlanning portal if your original application was lodged that way, otherwise send it to us at developmentmanagement@pkc.gov.uk . Please be aware that the Council has two months to consider the information (or four months in the case of a Major planning permission). You should therefore submit

the required information more than two months (or four months) before your permission expires. We cannot guarantee that submissions made within two months (or four months) of the expiry date of your permission will be able to be dealt with before your permission lapses.

- 6 The applicant is advised that any proposed signage will require a further application to be submitted for advertisement consent unless it benefits from express consent as per the Town and Country Planning (Control of Advertisements) (Scotland) Regulations 1984.
- 7 The applicant should take note of the information and advice contained within the consultation response from Scottish Water.
- 8 This development will require the 'Display of notice while development is carried out', under Section 27C(1) of the Town and Country Planning Act 1997, as amended, and Regulation 41 of the Development Management Procedure (Scotland) Regulations 2013. The form of the notice is set out in Schedule 7 of the Regulations and a draft notice is included for your guidance. In accordance with Regulation 41 the notice must be:

Displayed in a prominent place at or in the vicinity of the site of the development

- Readily visible to the public
- Printed on durable material.

Procedural Notes

Not Applicable.

PLANS AND DOCUMENTS RELATING TO THIS DECISION

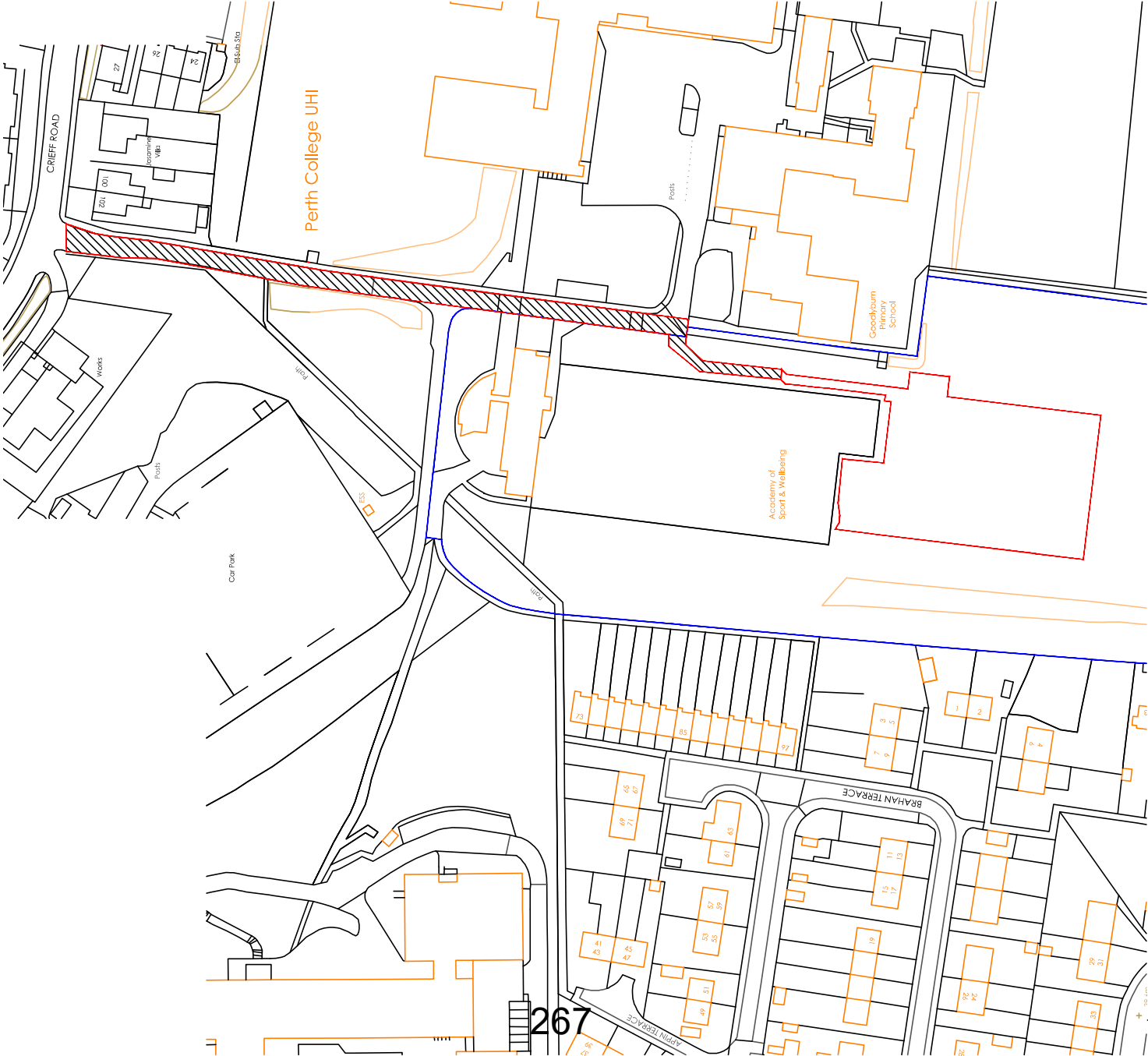
01
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16



NOTES
It is the contractors responsibility to check design levels and sizes for compliance. Any discrepancies or errors to be identified to the design team.

KEY

- Indicative Ownership Boundary
- Site Boundary
- Access Road, to be retained



REVIEW	DESIGN	BY	DATE	CHECKED



info@sportslabsconsult.com

PERTH COLLEGE UHI
5-A-SIDE/NETBALL PITCH PROPOSAL
LOCATION PLAN

Drawn by DRG. NO. 010	2924	Revised by RG
--------------------------	------	------------------

NOTES
It is the contractors responsibility to check
existing levels and sizes for compliance. Any
discrepancies or errors to be identified to the
design team.

Topographical Survey Undertaken to obtain
existing level and dimensions of the existing
site, consisting of a natural grass area
currently used for informal multi-sports use.

KEY

- Site Boundary
- Existing Fencing
- Existing Gate
- Existing Footpath
- Existing Street Lighting
- Existing Manhole
- Existing Building
- Existing slopes
- Existing tree & vegetation
- Trical Pits carried out to assess ground conditions & top soil depth
- Survey Station Set-up

268

Academy of
Sport & Wellbeing

Goodlyburn
Primary
School

PERTH COLLEGE UHI
5-A-SIDE/NETBALL PITCH PROPOSAL
TOPOGRAPHICAL SURVEY

info@sportlabsconsult.com



Scale bar 1:500 (metres)
0 5 10 20 metres

Date: 09/09/2021
Drawn by: RG
Checked by: JG
Job No: 2924

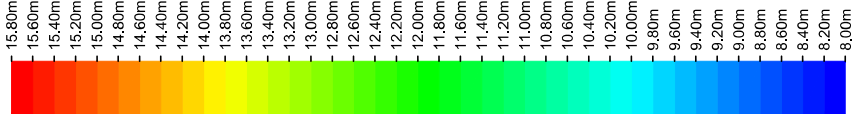


NOTES
It is the contractors responsibility to check design levels and sizes for compliance. Any discrepancies or errors to be identified to the design team.

3no. 3G pitches at 35.0m x 20.0m
(Accommodating 5-a-side Football, netball, hockey training).

KEY

- Site Boundary
- New Fencing



Academy of Sport & Wellbeing

Goodlyburn Primary School

270



info@sportslabsconsult.com

**PERTH COLLEGE UHI
5-A-SIDE/NETBALL PITCH PROPOSAL
EXISTING SITE TERRAIN**



Date: 08/2021
Drawn by: RG
Checked by: JG
Job No: 2924

NOTES

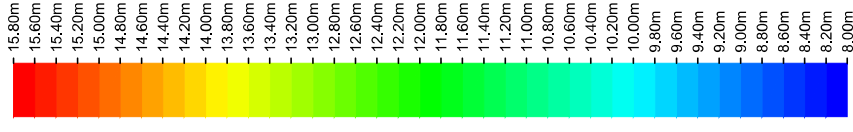
It is the contractors responsibility to check design levels and sizes for compliance. Any discrepancies or errors to be identified to the design team.

3no. 3G pitches at 35.0m x 20.0m
(Accommodating 5-a-side Football, netball, hockey training).

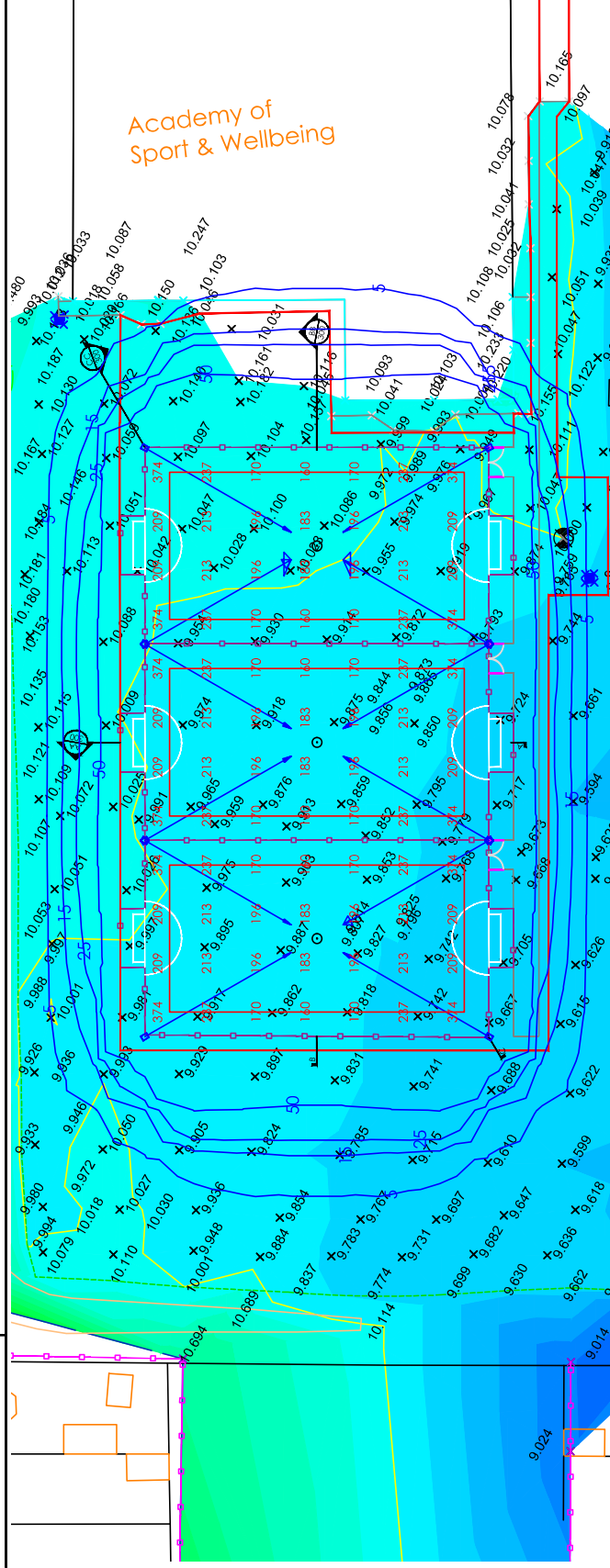
KEY

 Site Boundary

— New Fencing



Academy of
Sport & Wellbeing



01 | EXISTING SITE TERRAIN

SCALE: 1:500

01271

Vt Scale 1:100

H7 Scale 1:500

E=1047.24

N=982.79

E=1015.60

N=1014.89

▷ Datum 9.65m

Chainage

Vt Scale 1:100

VI Scale 1-100
H7 Scale 1-500

E=1011.64

N=975.23

E=1053.64

$N=1021.72$

Datum 9.83m

Chainage

1/4 Scale 1:100

VI Scale 1:100
H= Scale 1:100

E=1023.57

N=958.30

$$\nabla_{D=4, \text{ max}} \propto CE_{\text{max}}$$

Chainage

E=1041.09

N=1037.59



info@sportslabsconsult.com

PERTH COLLEGE UHI

5-A-SIDE/NETBALL PITCH PROPOSAL EXISTING SITE TERRAIN SECTIONS

metres

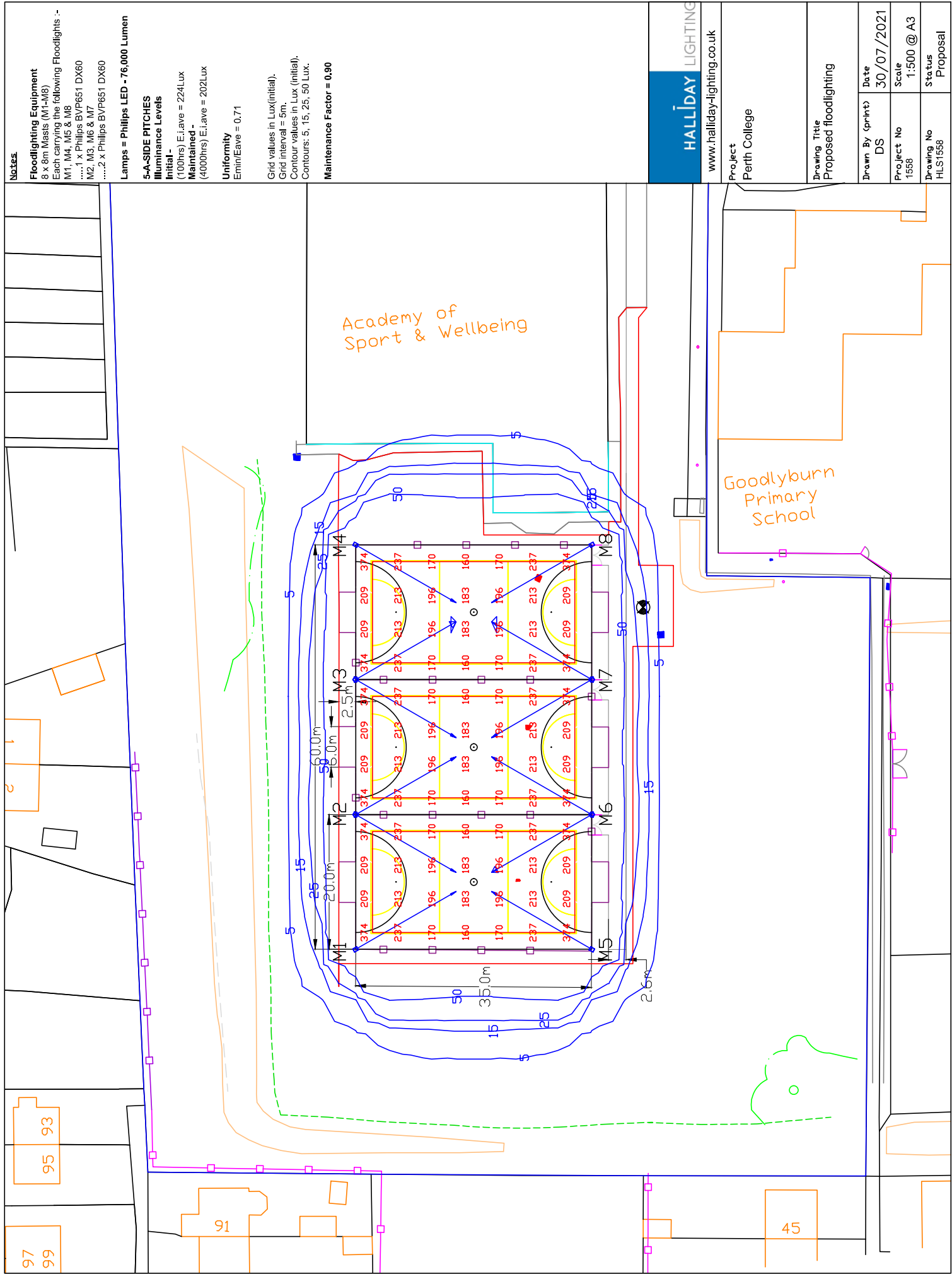
0 5 10 20

Scale bar 1:500 (metres)

Date: 08/2021
Scale: 1:500 @ A3

Job No. 2924

Drawn by: FG
Checked by: DB

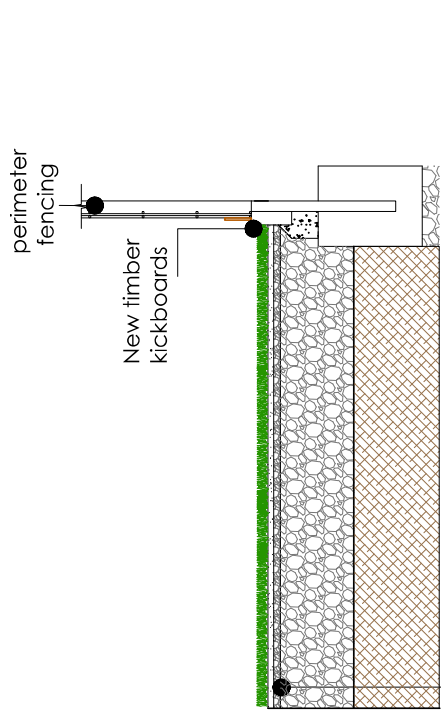


Notes	
Floodlighting Equipment 8 x 8m Masis (M1-M8) Each carrying the following Floodlights :- M1, M4, M5 & M81 x Philips BVP651 DX60 M2, M3, M6 & M72 x Philips BVP651 DX60	
Lamps = Philips LED - 76,000 Lumen	
5-A-SIDE PITCHES Illuminance Levels Initial - (100hrs) E.l.ave = 224Lux Maintained - (4000hrs) E.l.ave = 202Lux	
Uniformity Emin/Eave = 0.71	
Grid values in Lux(initial). Grid interval = 5m. Contour values in Lux (initial). Contours: 5, 15, 25, 50 Lux.	
Maintenance Factor = 0.90	
HALLIDAY LIGHTING www.halliday-lighting.co.uk	
Project Perth College	
Drawing Title Proposed floodlighting	
Drawn By (print) DS	Date 30/07/2021
Project No 1558	Scale 1:500 @ A3
Drawing No HLS1558	Status Proposal

NOTES
It is the contractors responsibility to check design levels and sizes for compliance. Any discrepancies or errors to be identified to the design team.

Proprietary shoe cleaner installed to manufacturers recommendations and Employer's requirements Installed either perpendicular to gate. One either side of detox.

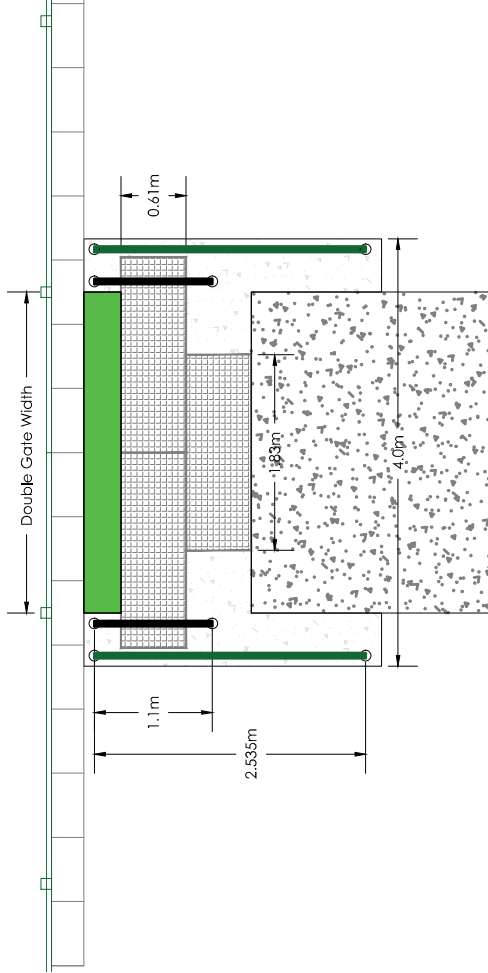
- Removable galvanised steel grate
- Removable geotextile lined tray, allowing drainage while capturing performance infl.



- New 3G Artificial turf (FIFA Quality & BS EN15330-1 Hockey) 40mm
- New Pre-fabricated Shockpad 20mm
- New sub-base material modified type 1 inc. blinding 300mm
- Formation -

02 STANDARD 3G PITCH SECTION
SCALE: 1:20

02 DETOX SECTION
SCALE: 1:25



03 STANDARD ACCESS PATH SECTION
SCALE: 1:40

04 TYPICAL DETOX AREA PLAN
SCALE: 1:40



info@sportslabsconsult.com

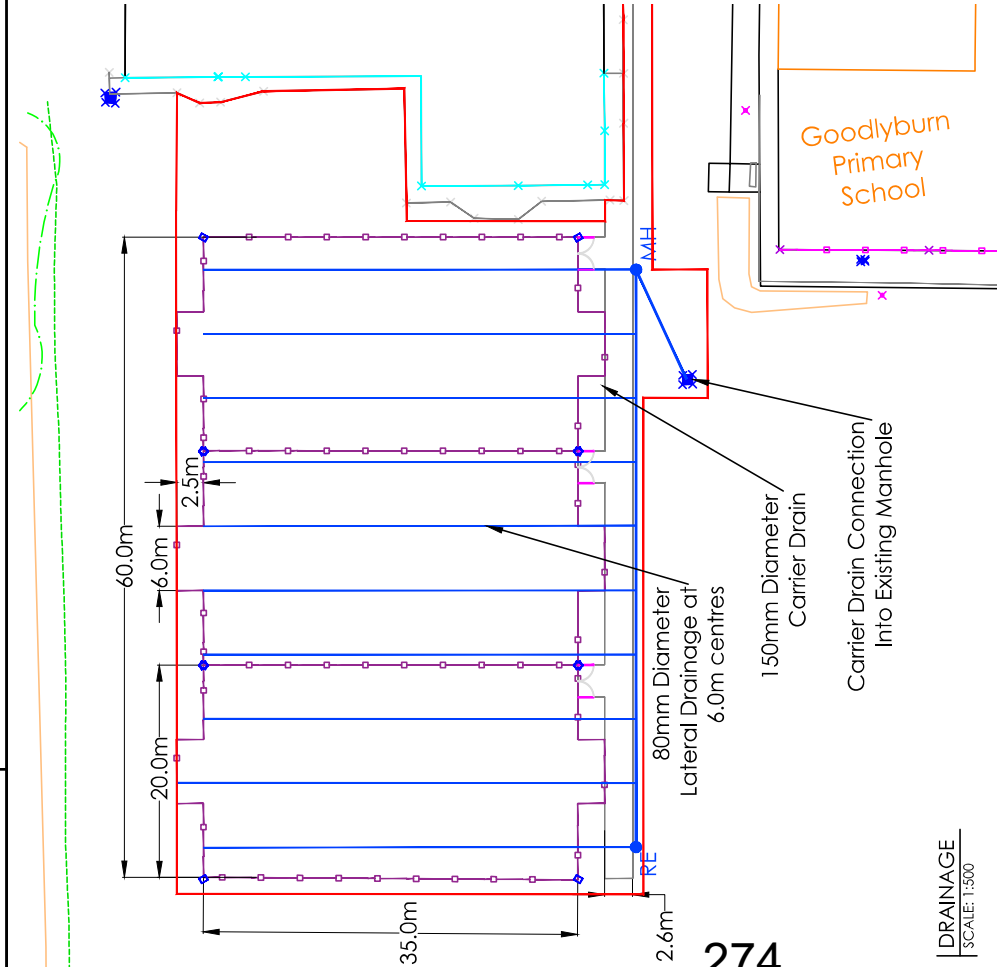
PERTH COLLEGE UHI

5-A-SIDE/NETBALL PITCH PROPOSAL
CONSTRUCTION DETAILS

0 0.25 0.5 1.0 metres
Scale bar 1:40 (metres)

0 0.25 0.5 1.0 metres
Scale bar 1:20 (metres)

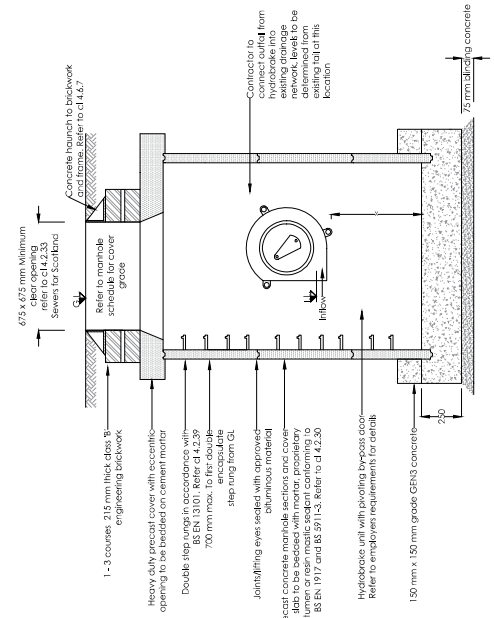
Date: 09/2021
Drawn by: RG
Checked by: JAS
Job No: 2942



274

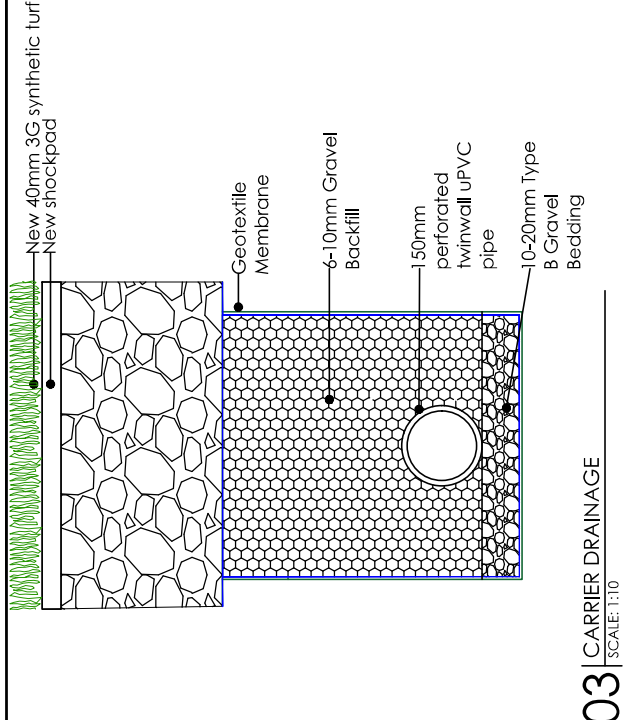
01 | DRAINAGE

SCALE: 1:500



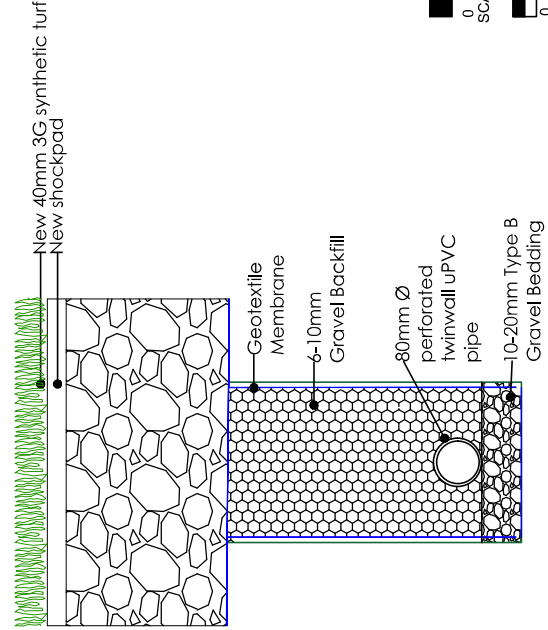
02 | STANDARD HYDROBRAKE MANHOLE SECTION

SCALE: 1:10



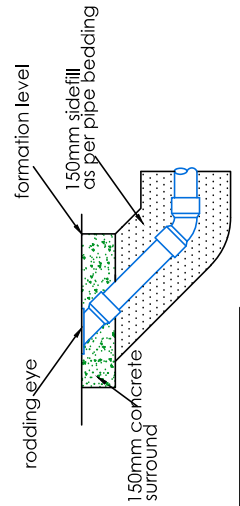
03 | CARRIER DRAINAGE

SCALE: 1:10



04 | LATERAL DRAINAGE

SCALE: 1:10



05 | RODDING EYE

SCALE: 1:40



NOTES
It is the contractors responsibility to check design levels and sizes for compliance. Any discrepancies or errors to be identified to the design team.

Topographical Survey Undertaken to obtain existing level and dimensions of the existing site, consisting of a natural grass area currently used for informal multi-sports use.

PARALLEL DRAINAGE SYSTEM

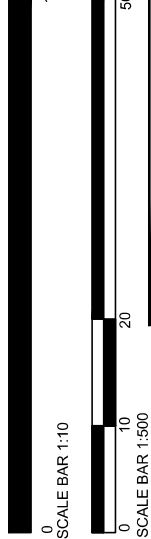
80mm Lateral Drainage laid at 6.0m centres across the width of the synthetic area.

150mm carrier Drainage connecting in to existing manhole.

Drainage system designed to be installed using the existing natural slopes provided. Max gradient of drainage system to be laid at 1:200.

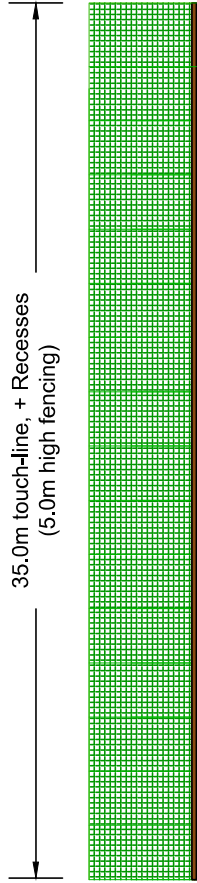
KEY

- Site Boundary
- New Fencing
- Gate
- Indicative New Floodlighting Column Locations
- Existing Fencing
- Existing Street Lighting
- Existing Manhole
- Existing Building
- Grass Platform Edge
- Existing slopes
- Existing tree & vegetation



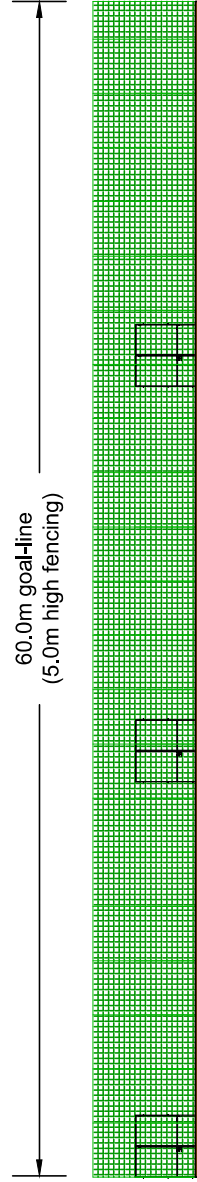
PERTH COLLEGE UHL
5-A-SIDE/NETBALL PITCH PROPOSAL
DRAINAGE

35.0m touch-line, + Recesses
(5.0m high fencing)



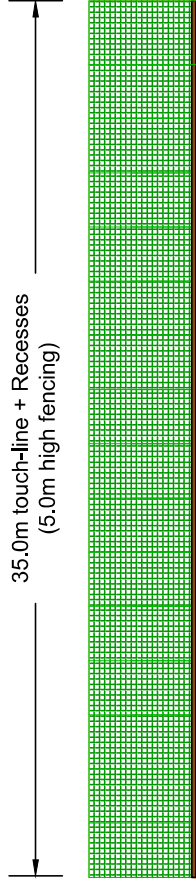
AA | NORTHERN ELEVATION
SCALE: 1:250

60.0m goal-line
(5.0m high fencing)



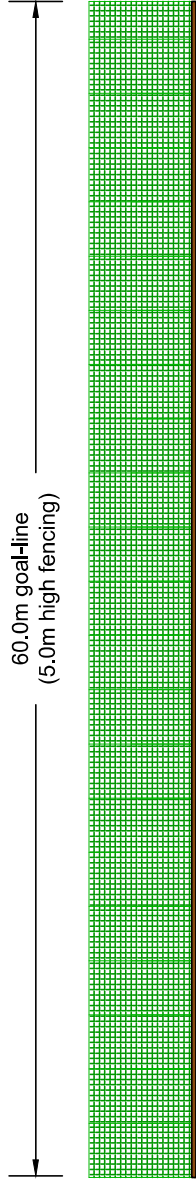
BB | EASTERN ELEVATION
SCALE: 1:250

35.0m touch-line + Recesses
(5.0m high fencing)



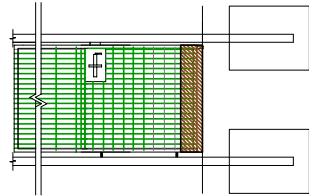
CC | SOUTHERN ELEVATION
SCALE: 1:250

60.0m goal-line
(5.0m high fencing)

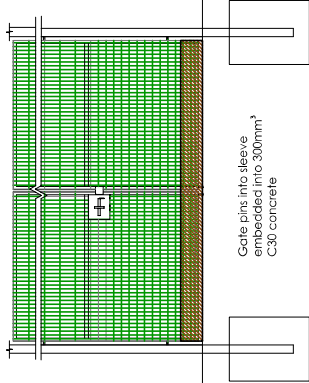


DD | WESTERN ELEVATION
SCALE: 1:250

275

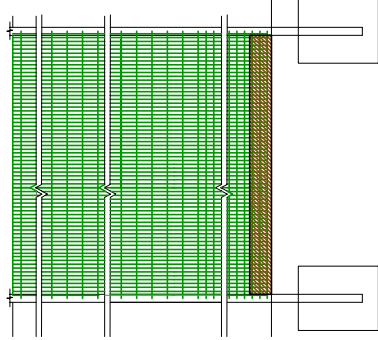


Typical single gate



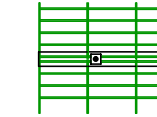
Typical double gate

fence posts to be rectangular hollow section
bottom panel 1.2m high 50x50mm 8/6/8 twin wire fencing,
from 1.2m to 3m
200x50mm 8/6/8 twin wire
ball stop fencing panel secured to posts and frame using coated slotted clamp flats and m8 bolts and m8 anti-vandal nuts
foundations c30 concrete sizes to be confirmed based on exposed ground conditions
Kickboards 150mm x 50mm around full pitch perimeter as microplastic mitigation measure

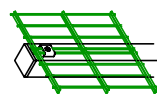


Typical 5m fence

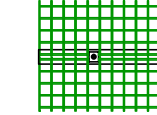
03 | GATE DETAILS
ELEVATION
SCALE: 1:50



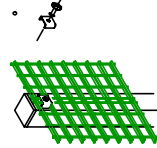
DETAIL OF PANEL



DETAIL OF PANEL TO POST FORMS



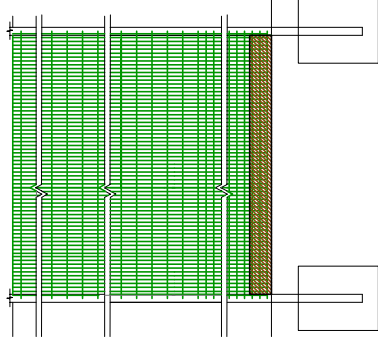
DETAIL OF PANEL



DETAIL OF PANEL TO POST FORMS

04 | FENCE PANEL
ELEVATION
SCALE: 1:50

fence posts to be rectangular hollow section
bottom panel 1.2m high 50x50mm 8/6/8 twin wire fencing,
from 1.2m to 3m
200x50mm 8/6/8 twin wire
ball stop fencing panel secured to posts and frame using coated slotted clamp flats and m8 bolts and m8 anti-vandal nuts
foundations c30 concrete sizes to be confirmed based on exposed ground conditions
Kickboards 150mm x 50mm around full pitch perimeter as microplastic mitigation measure



Typical 5m fence



info@sportslabsconsult.com

PERTH COLLEGE UHI
5-A-SIDE/NETBALL PITCH PROPOSAL
SECTIONS

Date: 09/2021 Drawn by: JSP-413	Job No: 2924	Revised by: RG Checked by: JSP
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DESIGN AND ACCESS STATEMENT

New 5-a-Side, Netball,
and Multi-Activity
Courts/Complex

Job No. 2924

August 2021

For

Perth College UHI

Sports Labs Ltd
1 Adam Square
Brucefield Industry Park,
Livingston
EH54 9DE

Contract Number: **2924**

Issued by: Sports Labs on behalf of
Perth College UHI

For the development of
New 5-a-side, netball and multi-activity sports pitches to the rear of Academy of Sport & Wellbeing at Perth College UHI. The pitches shall consist of a 3G playing surface and include provision of drainage, perimeter fencing, floodlighting & suitable access.

Date of Issue:
August 2021

Version	Issue Date	Details
Planning	August 2021	-
Approvals		Signatures
Author:	Fraser Gilbert	
Checked by:	David Dickinson	
Client approval:	For and on behalf of Perth College UHI	
Issued by: Location:	Sports Labs Ltd, 1 Adam Square, Brucefield Industry Park, Livingston, EH54 9DE	Tel: +44(0)1506 444 755 E-mail: info@sportslabs.co.uk

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1 Adam Square
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West Lothian, Scotland
United Kingdom
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Phone: +44 (0) 1506 444 755



CONTENTS

1	INTRODUCTION	4
2	PURPOSE OF THIS DOCUMENT.....	5
3	PLANNING LEGISLATION	5
4	PLANNING STATEMENT.....	6
5	DESIGN OVERVIEW	7
6	ACCESS OVERVIEW	12
7	FACILITY MAINTENANCE	13
8	PROPOSAL SUMMARY	13
	APPENDIX 1 – LETTERS OF SUPPORT	14

1 INTRODUCTION

- 1.1 Sports Labs Ltd has been appointed on behalf of Perth College UHI to develop an application for planning permission for 5-a-side, netball and multi-activity sports pitches to the rear of Academy of Sport & Wellbeing at Perth College UHI. The pitches shall consist of a 3G playing surface and include provision of drainage, perimeter fencing, floodlighting & suitable access.
- 1.2 In order to assist in the approval of planning permission and the development of the proposed project, this document shall outline the scope of works and considerations within the local environs and to facility users and residents.
- 1.3 This statement shall discuss design and access considerations regarding layout and further considerations in relation to the wider scheme.

1.4 Site Address

Perth College Academy of Sport & Wellbeing
Perth College UHI
Perth
PH1 2LU

1.5 Applicant Details

Perth College UHI
Crieff Road
Perth
PH1 2NX

Project Contact: Deirdre Matthew
Position: Procurement Manager
Email: dmatthew@apuc-scot.ac.uk

1.6 Agent Details

Sports Labs Ltd
1 Adam Square
Brucefield Industry Park
Livingston
West Lothian
EH54 9DE

Project Contact: Fraser Gilbert
Position: Project Engineer
Email: fraser@sportslabs.co.uk

2 PURPOSE OF THIS DOCUMENT

- 2.1 The Design and Access Statement has been compiled as a short document to provide detail of the build proposals to accompany the planning application submission.
- 2.2 The report has been published in line with government recommendations, whereby the design and access statement is a short report accompanying and supporting a planning application to illustrate the process that has led to the development proposal, and to explain the proposal in a structured way. The level of detail required in a design and access statement depends on the scale and complexity of the application, and the length of the statement varies accordingly. Statements must be proportionate to the complexity of the application but need not be long.

3 PLANNING LEGISLATION

- 3.1 Throughout the planning and design process Reference has been made to Perth & Kinross Council Planning Information & Glossary document.
- 3.2 Circular 6/2013: Development Planning - Perth and Kinross Local Development Plan 2, 2019). The proposal is seen to meet multiple conditions (a) – (d) under The LDP, Community Facilities, Sport & Recreation Sect. 14 – Open Space Retention & Provision;

Development proposals resulting in the loss of these areas will not be permitted, except in circumstances where one or more of the following apply:

- (a) Where the site is principally used as a recreation resource, the proposed development is ancillary to the principal use of the site as a recreational resource.*
- (b) The proposed development involves a minor part of the site which would not affect its continued use as a recreational or amenity resource.*
- (c) In the case of proposals involving the loss of a recreational facility, the facility which would be lost would be replaced by provision of one of comparable or greater benefit and in a location which is convenient for its users, or by the upgrading of an existing provision to provide a better quality facility, either within the same site, or at another location which is convenient for its users.*
- (d) Where a proposal would involve the loss of a sports pitch, a playing field strategy prepared in consultation with sportscotland has demonstrated that there is a clear excess of sports pitches to meet current and anticipated future demand in the area, and that the site could be developed without detriment to the overall quality of provision.*

- 3.3 The existing site is a natural grass platform currently used for in-formal multi-sport play. The pitch is not marked out for competitive use, does not conform to standard dimensions, is not regularly maintained to recognised natural grass playing field standards, does not have any permanently stationed equipment and does not cater exclusively to any sports groups which would be displaced as a result of the development. The proposed development takes up part of the existing natural grass pitch platform. A sizable area would be left adjacent to this on the existing natural grass platform to be used for informal multi-sport use if desirable. The new development enhances the existing provision of available floorspace for sports.
- 3.4 The development aims to deliver in line with The Scottish Planning Policy. Sect.29 indicates that 'Policies and Principles should be guided by the following principles;

- *making efficient use of existing capacities of land, buildings*
- *improving health and well-being by offering opportunities for social interaction and physical activity, including sport and recreation*

The development shall provide an increased capacity for sports use by Perth College UHI. This shall be made available to local schools/ teams/ sports clubs and to the wider community. The development shall enhance the sporting provision at the college and provide the opportunity for the local community to get healthy and stay active. The facility shall transform an area of land currently under maintained and used informally for multi-sport use. Instead, the new pitch proposal shall utilise this space transforming the development area into a high quality 5-a-side and netball sporting facility.

- 3.5 In preparation of the planning submission, the proposals have been assessed vs The Town and Country Planning (Development Management Procedure) (Scotland) Regulations 2013. The development does not fall under any of the classes of development listed under Schedule 3.
- 3.6 Under both The Town and Country Planning (Hierarchy of Development) (Scotland) Regulations 2009 and Scottish Government Hierarchy of Developments Circular 5/ 2009, the proposal is defined as a local development as it does not meet any of the requirements outlined to be considered a major development.

4 PLANNING STATEMENT

4.1 Sustainable Development

The proposal aims to contribute to the following areas;

- Social role – providing modern facilities that will encourage the maximum football developmental outcomes with the benefits to health and wellbeing associated with this.

In a sporting context, the proposal aims to;

- Provide opportunity for College local community and sporting organisations to participate in sport and physical activity for health continued physical activity and sporting development.
- Operate in line with the national agenda for sport nationally adopted strategies.
- Generate positive attitudes in sport and physical activity in young people, encouraging continued participation in sport in an inclusive environment.
- Increase the number of participants and facility users including people with disabilities.
- Use the facilities to encourage expansion of College links with sports clubs.

5 DESIGN OVERVIEW

5.1 Facility Purpose

The new 5-a-side and netball facility is required to provide a new upgraded 3G surface for use by the college to play a key part in academic delivery of the sports and fitness curriculum.

The facility shall consist of a 3G surface accommodating netball and football usage as well as hockey training. Pitches shall be marked for netball and football.

The new facility shall increase the sporting provision of the college and within the local area providing a sought-after facility in the local area catering for 5-a-side, netball and multi-activity play.

- 5.2 The facility aims to support pathway development programmes for both netball and football, it will also support coach education programmes, participation, club and regional competitions/ festivals. SportsScotland have been consulted on this process throughout and are in support of the plans included herein.

The facility capacity at this time is unfortunately not capable of meeting current demand for 5 a side football or indeed demand for other indoor sports/activities and requests for major events. With the development of this 5 a side/netball complex we will be able to enhance capacity and support demand for 5 aside football and netball.

This will also have positive knock-on effect of building further capacity for other sport/activities to take place and in doing so increase the number of people taking part in physical activity.

In addition, the complex and increased capacity in Academy of Sport and Wellbeing will create more work-based learning opportunities for students and offer further employment opportunities in the region.

5.3 Site Description

5.4 The site is located on the existing natural grass pitch platform at Perth College UHI to the rear of the Academy of Sport & Wellbeing building. The North of site is the existing Academy of Sport & Wellbeing building to which the new facility access shall connect. To the West of site is a sloping embankment with several trees and areas of vegetation. To the South of site is further slopes down to the planning surface and perimeter boundary fencing from surrounding properties. To the East of site is the existing footpath network connecting the college to Kingswell Terrace alongside existing streetlighting and perimeter fencing surrounding the natural grass area to the rear of Goodlyburn Primary School.

5.5 Site Dimensions

The playing area of the natural pitch shall accommodate 3no 3G. multi-activity pitches of 35.0m x 20.0m in width. The synthetic area therefore shall be 60.0m x 35.0m, plus recess areas of 6.0m x 2.5m behind each goal-line for 5-a-side goals to be installed.

5.6 Site Topography

A topographical survey was carried out by Sports Labs on 14/08/2020. The survey was carried out using a calibrated Trimble Total Station. The survey captured levels at points across the existing site and identified existing site features – see drawing no. 050.

In the design of sporting facilities to meet the performance requirements of FIFA Quality, the construction of football pitches is designed to have a maximum gradient of no greater than 1:100 in any one direction. The Topographical survey data indicates that the area identified within the red line boundary shown slopes gradually from West to East and is already compliant with the maximum 1:100 slope requirements and so earthworks operations to achieve site levels shall be minimal.

5.7 Drainage Design

The pitch will consist of a lateral cross-pitch drainage system connecting into a carrier drain that then connects to an existing disconnecting manhole. The existing manhole cover was lifted and inspected during the initial site visit undertaken by Sports Labs on 14/08/2020 and a hydro-break was seen to be installed to ensure that the storm water flow out of the pitch is restricted in line with industry requirements. Note: this outflow has the capabilities to be restricted further should there be a requirement.

Lateral pitch drainage of 80mm pipes shall be installed at 6.0m centres across the width of the facility. This shall connect into a carrier drainage pipe of 150mm diameter. A run shall be taken from the carrier drain to the existing manhole within the site.

The pitch construction is to be controlled by Key Stage Inspections (KSI's) at each phase of construction. This will allow porosity testing to be carried out in line with BS EN standards to ensure that the pitch is draining correctly at key stage of construction.

5.8 Pitch Construction

5.8.1 Sub-Base

The pitch construction shall consist of sub-base between 250mm to 300mm in depth dependant on ground conditions. A blinding layer of finer stone size shall be applied to finish, thereby providing a level surface to meet the required design tolerances.

5.8.2 Shockpad

A performance shockpad shall be laid over the sub-base blinding layer. The shockpad provides a solid platform on which the synthetic turf shall be laid while providing further shock absorption properties.

5.8.3 Synthetic Turf System

A 40mm pile height 3G synthetic turf system is proposed. The 3G turf system consists of synthetic turf filled with sand and SBR rubber to provide the required performance characteristics. The 40mm system is suitable for football and can also accommodate multi-sport use including hockey.

5.9 Equipment

5-a-side goals shall be installed in the goal area of each pitch. These shall be designed for senior players with approx. dimensions of 3.66m x 1.83m or similar. A recess area shall be built into the design to allow the goal posts to sit flush with the perimeter of the facility.

5.10 Environmental Measures

Detox areas shall be placed at the main entrance to each pitch. This shall consist of a steel grate set in concrete and finished level with the surrounding surfaces. Beneath the grate shall be a removable free-draining geo-textile lined tray. This feature will allow the capturing of any loose rubber material from pitch users as they leave the field, while the tray can be lifted out and the rubber infill material recycled back into the field. The geotextile tray allows drainage while preventing the rubber infill material from entering the drainage network.

Boot brushes shall be placed at the entrance areas. Pitch users shall be encouraged via signage to use boot brushes on exiting the playing field. The brushes shall remove an excess rubber infill material, preventing this from leaving the area and again allowing the recycling of this material back into the pitch.

Kickboards shall be installed at the base of the perimeter fencing system. These shall be between 150mm to 300mm in height and will prevent rubber infill material from leaving the pitch into the surrounding environment.

5.11 Perimeter Fencing

The new facility shall be enclosed by a 5.0m high twin-wire fencing system. All fencing including gates shall be coloured green to RAL6005 and all supported by an intermediate post system. The colour is chosen in order to minimise the visual impact to the surrounding environment and to match the existing spectator fencing already in place.

The fencing panels shall be weld mesh panels approximately 2.535m wide. Panels shall have welded mesh structures, 1.2m in height in a 200mm x 50mm x 6/8/6 mesh configuration as a general detail.

Double gate access shall be provided for vehicular/ maintenance access to the pitch and for pedestrian access/ball retrieval. Noted in contract drawings provided.

It shall be ensured that all fencing is installed correctly to mitigate against noise generated, rubber dampers and washers are included within the fencing system to reduce any noise generated by balls rebounding off the system.

Floodlighting System

The proposed floodlighting system shall consist of an 8-column system, each 8.0m in height supporting LED lighting fixtures. Please refer to supporting drawings for full details and drawing no.400. There are no neighbouring properties affected by the proposals. The supply shall be drawn from a feeder pillar located adjacent to the pitch.

The light spill for the design system demonstrated that there is no spill directly impacting on neighbouring dwellings.

The following mitigation measures have been implemented to minimise the impact of the floodlighting system;

- The system shall use LED light fittings to use less energy
- To minimise the light spill and to eliminate upward light the floodlights selected are designed specifically for floodlighting sports fields. The floodlighting provides with a wide range of ambient temperature tolerance making it suitable for a variety of sports applications whilst having the best class spill light, 0 tilt and glare.
- The wide range of optics ensures maximum optical efficiency and enables highly precise light distribution with minimum spill light.

The type of floodlighting has been chosen specifically for its suitability in relation to the limited light spill to areas not intended to be illuminated and for their low impact on the surrounding areas generally. The floodlighting design provided conceals the luminaire to the surroundings by optimising the control of the direction of lighting. In total 8 no. floodlighting poles have been located so that the pitch will be floodlight to the desired level and the runoff area of the field receiving lowered level of light so that it can be utilised as a training/warm up area during training matches. The floodlights will be powered from an existing electrical connection available on site and will not require the provision of a generator, further mitigating any impact on the surrounding context. Sports Labs commissioned sports floodlighting and lighting specialists Halliday Lighting to develop the floodlighting design for this project.

5.12 Additional design considerations

SEPA Flood maps have been viewed alongside this application. No flooding issues have been identified within the development areas.

6 ACCESS OVERVIEW

6.1 Site Access

A new access path shall be constructed connecting to the existing path network alongside the perimeter of the Academy of Sport & Wellbeing building. The path shall be a minimum 2.6m wide to accommodate vehicular access for emergency vehicles and maintenance equipment. The main access path shall run along the full length of the facility providing access to each individual pitch, which can be accessed via a double gate.

6.2 Access for Construction Purposes

The site can be access via the main access road connecting to A85. It should be noted that the access route operates a one way system. The access road in is crossed by pedestrians at multiple locations across the main access to the Academy of Sport & Wellbeing main building. This shall be given due consideration within the contractors Traffic Management Plan & Construction Phase Plan. Control measures in place shall be included within the contractors RAMS information pack.

A suitable compound location for material storage/ welfare & for material deliveries shall be identified following a pre-start meeting with the client and contractor team. This shall involve use of a section of car park during the construction phase and shall be designed with due considerations to Perth College Fire Safety Plan.

client team shall identify and share all college opening times, breaks/ lunch times, start and end of day hours etc. The same information shall also be acquired and share for the adjacent Goodlyburn Primary School who will be utilising the same access routes and car park areas. Any events such as examinations/ sports days etc shall be shared with the contractor team.

6.3 No construction operations are anticipated to take place on Sundays or public holidays. HGV movements shall not be permitted outside the agreed workings hours without prior written approval from the Local Planning Authority.

6.4 Opening Hours

It is proposed that the facility operates under the following hours;

- Monday to Friday up to 22:00
- Saturday and Sunday up to 21:00

The above hours shall allow use of the pitch during the evening and weekends thereby increasing the current provision from the existing informal natural grass area.

7 FACILITY MAINTENANCE

On completion of the project, the pitch contractor will either undertake maintenance of the pitch for the one year following construction or offer to undertake a handover workshop to brief grounds staff on the maintenance required – and offer up any specialist maintenance equipment as necessary. The ongoing maintenance of the facility shall be the responsibility of the College's grounds team. General maintenance of the pitch shall be undertaken on a weekly basis as a minimum in order to maximise the lifespan of the new natural pitch.

The facility will implement equal provision in terms of quality and quantity and in a suitable location to benefit the community and providing access and opportunity for sport and recreation, making an important contribution to the health and well-being of communities.

8 PROPOSAL SUMMARY

- 8.1 In view of the proposals outlined herein assessed against relevant planning policies and considerations, we request that the proposal be accepted with the following key points;
- The new facility will provide an all-weather evening and weekend use pitch allowing increased participation, expansion and development of College's teams, strengthening of links already in place with local sports teams.
 - The proposal ensures that the performance of floodlighting system complies with local planning conditions for residential areas.
 - The proposed development is for an outdoor sports facility, the provision of which would be of sufficient benefit to the development of sport.
 - The proposal ensures that surface water run-off is adequately managed and does not increase the flood risk, already noted as very low for the facility.
 - The new pitch will not result in an unacceptable impact upon the character, appearance or visual amenity of the surrounding area. The proposal will complement the existing College facilities and will not appear inappropriate to any view looking into the University grounds.
 - The proposal would not result in an unacceptable impact to any residential amenity.

APPENDIX 1 – LETTERS OF SUPPORT

Dear Gareth

Reference: Perth College UHI - Academy of Sport and Wellbeing (ASW)

Further to our meeting on 11th June 2021, I am pleased to confirm the detail of our commitment to Perth College UHI and the use of the newly proposed outdoor court space.

Based on our initial discussions and further internal discussions within the academic team, we can confirm the following support:

- Ability to retain an active curriculum should we ever go into similar COVID situation by providing an outdoor facility than will enable practical academic work
- Opportunity to explore a wider variety of playing surfaces and impact of this on athlete performance
- Key venue for academic led events without causing disruption to the weekly booking timetable
- Greater opportunity for student led clubs within any weekday without causing disruption to indoor hall activity
- Greater opportunity to work with SGBs of sport without the restricted availability within indoor hall
- A safe and appropriate outdoor space for outdoor sport and fitness activity
- Greater opportunity to work with schools without the restrictions or disruptions to main academic activity.

The creation of appropriate outdoor sport courts will provide a much more flexible approach to how the academic department manage relationships and activity, provide greater opportunity for student led activities, events, and sport without disruption to indoor activity. The academic department had removed football from the curriculum as the current outdoor space was not suitable as green space. We temporarily utilised a local artificial pitch however availability and resource made this arrangement unsustainable. We look forward to being able to provide a football provision once again within the curriculum.

Yours sincerely

Sharon McGuire
Sector Manager – Sport and Fitness

UHI letter of support

To whom it may concern,

Perthshire hockey club would welcome the addition of a new astro facility at UHI, this would be of benefit to our club as an additional training area for us to use for both adults and juniors. We at present have over 200 members and training pitches in the area are hard to come by.

At present all our training for outdoor takes place out of Perth city in Bridge of Earn, so another facility option in Perth would be very welcome.

As a club we are in discussions with a local school to set up another Club Connect programme which will be aimed at pupils who cannot afford or have the means to get out to our current training base and as a club and Scottish hockey as an association are keen for clubs to be more inclusive and this would help us in this direction.

We would also be able to use this to develop new coaches and umpires locally.

We would see this as a further step forward in our partnership with UHI which has been very strong since its inception three years ago.

Should you require any further information or clarification please do not hesitate to contact me.

Regards and best wishes

Gordon Loudon
President Perthshire Hockey Club

ggloudos@aol.co

01738629200

07840867674

NOTES
It is the contractors responsibility to check design levels and sizes for compliance. Any discrepancies or errors to be identified to the design team.

3no. 3G pitches at 35.0m x 20.0m
(Accommodating 5-a-side Football, netball, hockey training).

Synthetic Area
Length - 35.0m (x3)
Width - 20.0m (x3)
Recess (Goal Storage) - 6.0m x 2.5m (x6)
Total Synthetic Area - 6,390m²

Floodlighting Equipment
8 x 8m Masts (M1 - M8)
Each carrying the following floodlights:
M1, M4, M5 & M6
...1 x Philips BVP651 DX60
M2, M3, M6 & M7
...2 x Philips BVP651 DX60

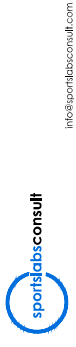
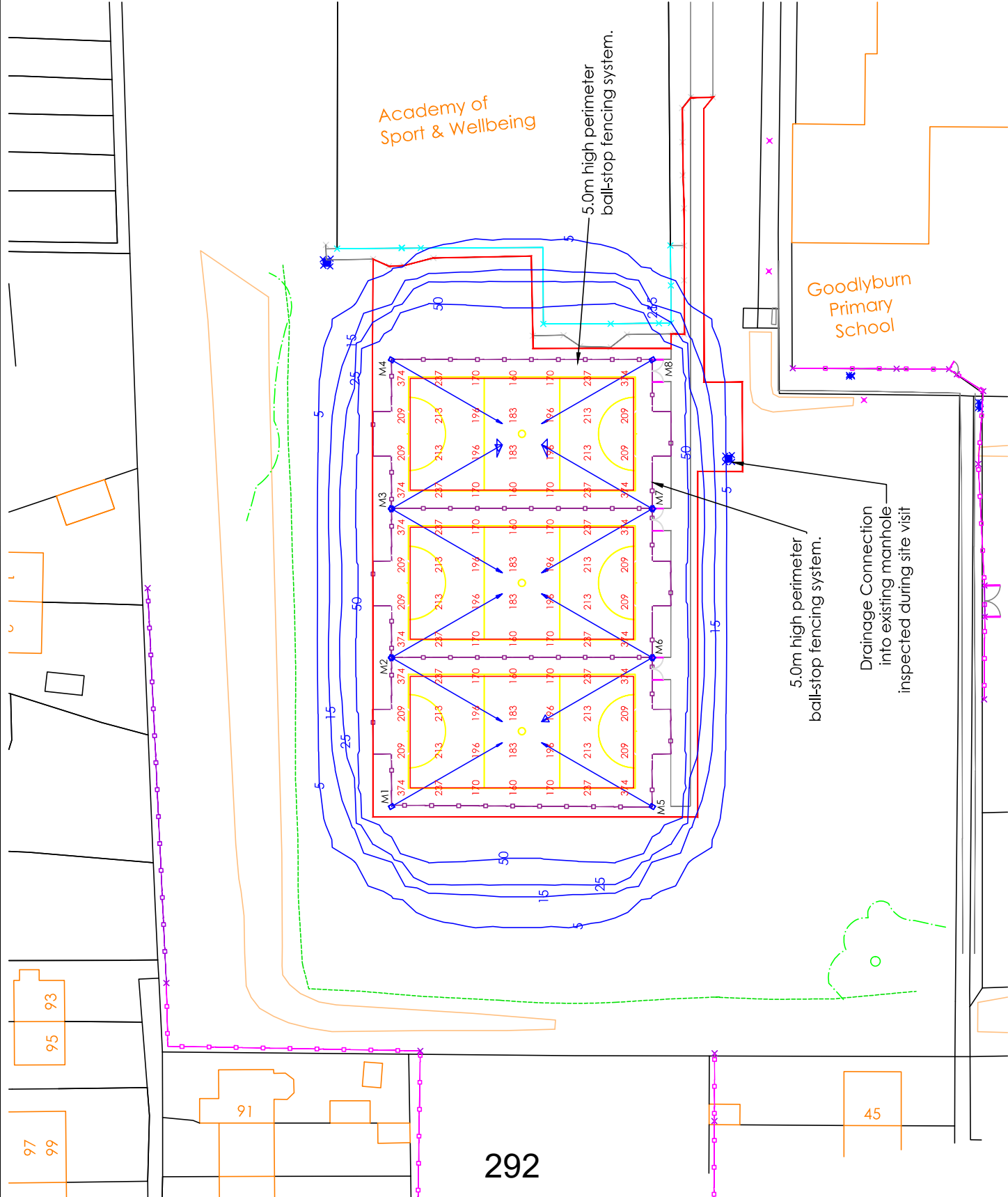
Lamps = Philips LED - 76,000 Lumen

Illuminance Levels
Initial-
(100hrs) E.Lave = 224Lux
Maintained-
(4000hrs) E.Lave = 202Lux

Uniformity
Entrir/Eave = 0.71

Grid Values in Lux (Initial)
Grid Interval = 5m
Contour values in Lux (Initial).
Contours: 5, 15, 25, 50Lux

- KEY**
- Site Boundary
 - New Fencing
 - New Floodlighting Column Locations
 - Existing Fencing
 - Existing Gate



PERTH COLLEGE UHI
5-A-SIDE/NETBALL PITCH PROPOSAL
FLOODLIGHTING LUX LEVELS

Scale bar 1:500 (metres)
0 5 10 20
Date: 09/2021
Drawn by: JG
Checked by: JG
Acc. No.: 2924

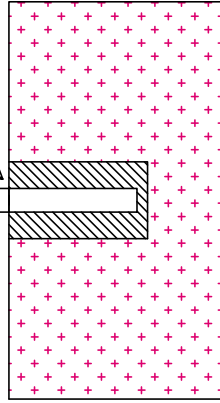
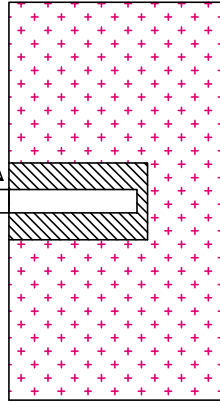
Notes

ALL DIMENSIONS SHOWN IN METERS



Ground level

Ground level



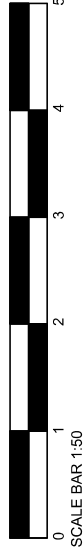
HALLIDAY LIGHTING

Project
STANDARD DRAWING

www.hallidaylighting.co.uk

Drawing Title
8M Column

Drawn By (print)	Date
JW	29/01/2020
Project No	Scale
STD DWG	1:50
Drawing No	Status
8m static	VISUAL ASSESSMENT





ClearFlood Large

BVP651 LED750-4S/740 DX50 ALU PSU

ClearFlood large - LED module 75000 lm - LED - Power supply unit - Distribution extra wide 50 - Aluminium

ClearFlood Large is designed to meet the requirements of a wide range of floodlighting applications. It also includes all the necessary control features and interfaces to make it future-proof and even more efficient. ClearFlood Large lets you choose the exact number of lumens you need for your application. Incorporating extremely high-efficiency optics and state-of-the-art LEDs, it is a highly competitive solution offering an outstanding lux/euro ratio and energy savings of up to 40% (without the use of additional controls). The wide choice of optics ensures maximum application coverage. ClearFlood Large is easy to install – you simply plug it in and select the best option for your needs. Perfect for replacing conventional technology and enabling intelligent lighting control while retaining the same electrical installation and poles.

Product data

General Information		Protection class IEC	Safety class I
Lamp family code	LED750 [LED module 75000 lm]	Flammability mark	F [For mounting on normally flammable surfaces]
Light source colour	740 neutral white	CE mark	CE mark
Light source replaceable	Yes	ENEC mark	ENEC mark
Number of gear units	2 units	Warranty period	5 years
Driver/power unit/transformer	PSU [Power supply unit]	Outdoor optic type	Distribution extra wide 50
Driver included	Yes	Remarks	*-Per Lighting Europe guidance paper "Evaluating performance of LED based luminaires - January 2018": statistically there is no relevant difference in lumen maintenance between B50 and for example B10. Therefore the median useful life (B50)
Optical cover/lens type	FG [Flat glass]		
Luminaire light beam spread	17° - 5° x 132°		
Control interface	-		
Connection	Connection unit 5-pole		
Cable	-		

ClearFlood Large

	value also represents the B10 value. * At extreme ambient temperatures the luminaire might automatically dim down to protect components
Constant light output	No
Number of products on MCB	3
RoHS mark	RoHS mark
LED engine type	LED
Product Family Code	BVP651 [ClearFlood large]

Light Technical

Upward light output ratio	0
Standard tilt angle post-top	0°
Standard tilt angle side entry	0°

Operating and Electrical

Input voltage	220 to 240 V
Input frequency	50 to 60 Hz
Inrush current	13 A
Inrush time	1.32 ms
Power factor (min.)	0.98

Controls and Dimming

Dimmable	No
----------	----

Mechanical and Housing

Housing material	Aluminium die-cast
Reflector material	-
Optic material	Acrylate
Optical cover/lens material	Glass
Fixation material	Steel
Mounting device	MBA [Mounting bracket adjustable]
Optical cover/lens shape	Flat
Optical cover/lens finish	Clear
Overall length	817 mm
Overall width	597 mm
Overall height	80 mm
Effective projected area	0.41 m²

Colour	Aluminium
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Approval and Application

Ingress protection code	IP66 [Dust penetration-protected, jet-proof]
Mech. impact protection code	IK08 [5 J vandal-protected]

Initial Performance (IEC Compliant)

Initial luminous flux	60800 lm
Luminous flux tolerance	+/-7%
Initial LED luminaire efficacy	123 lm/W
Init. Corr. colour temperature	4000 K
Init. colour rendering index	≥70
Initial chromaticity	(0.380, 0.390) SDCM <5
Initial input power	495 W
Power consumption tolerance	+/-11%

Over Time Performance (IEC Compliant)

Control gear failure rate at median useful life 100000 h	10 %
Lumen maintenance at median useful life* 100000 h	L86

Application Conditions

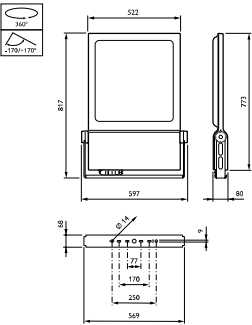
Ambient temperature range	-40 to +50 °C
Performance ambient temperature Tq	25 °C

Product Data

Full product code	871869911286800
Order product name	BVP651 LED750-4S/740 DX50 ALU PSU
EAN/UPC – product	8718699112868
Order code	11286800
Numerator – quantity per pack	1
Numerator – packs per outer box	1
Material no. (12NC)	912300023798
Net weight (piece)	23.275 kg

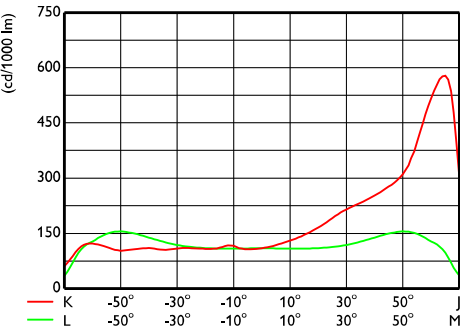
ClearFlood Large

Dimensional drawing

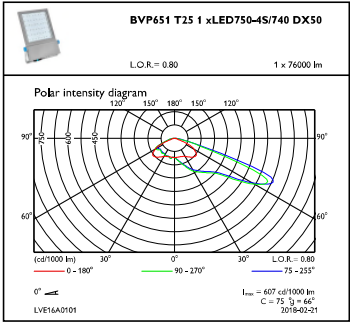


ClearFlood BVP650/651

Photometric data



OFCS1_BVP651T251xLED750-4S740DX50



OFPC1_BVP651T251xLED750-4S740DX50



Fortress Range

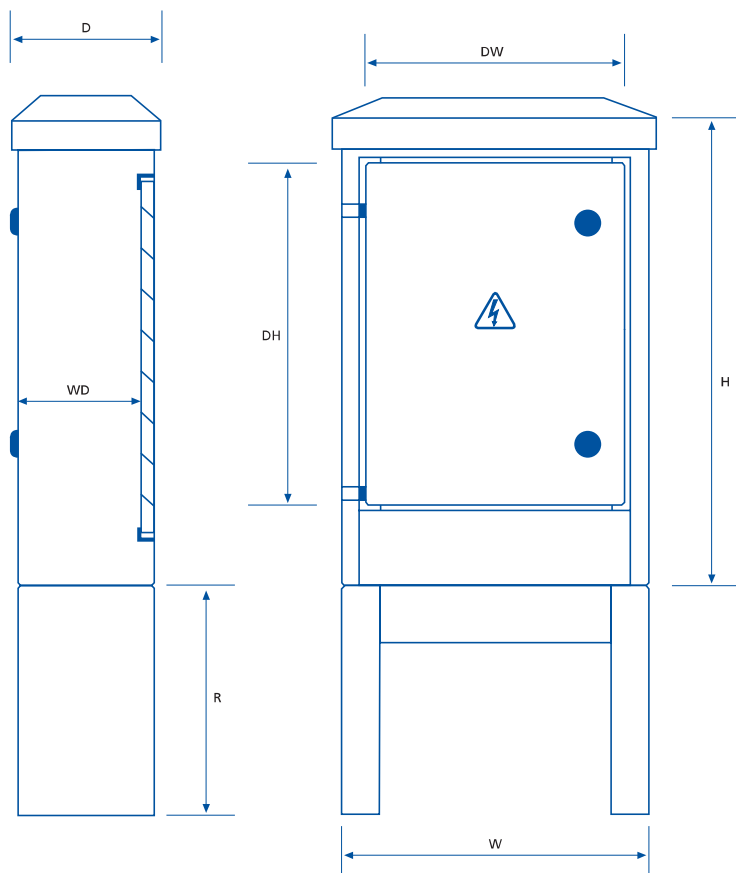
Sheet Steel and Stainless Steel Single Door Hinged Pillars

The Fortress range of Sheet Steel pillars is manufactured to a new modular design and is available in 6 sizes and 3 material types.

HGD: Sheet Steel which is Hot Dip Galvanised to BS 729.

HDP: Sheet Steel which is Hot Dip Galvanised to BS 729 and then treated and Painted as standard in grey.

STP: 2.5mm Stainless Steel which is treated and painted grey.



Specification

- Long life hinges manufactured from solid stainless steel blocks on all versions
- Two Tri-head key wedge locks for added security
- Backboard from 18mm thick treated exterior grade plywood
- Detachable roof section HDG and finished in bitumen enriched paint
- Danger warning label fitted in a recess in the door
- Earth lead connection supplied from pillar body to door
- HDP and STP are powder coat painted in Grey (BS 4800.18B25) as standard
- High quality UV resistant paint to a minimum thickness of 60 microns
- Door seal up to IP65
- Detachable roof
- Backboard can be removed for wiring

Options

- Pre-wired
- Special labels
- G2A Highways paint specification



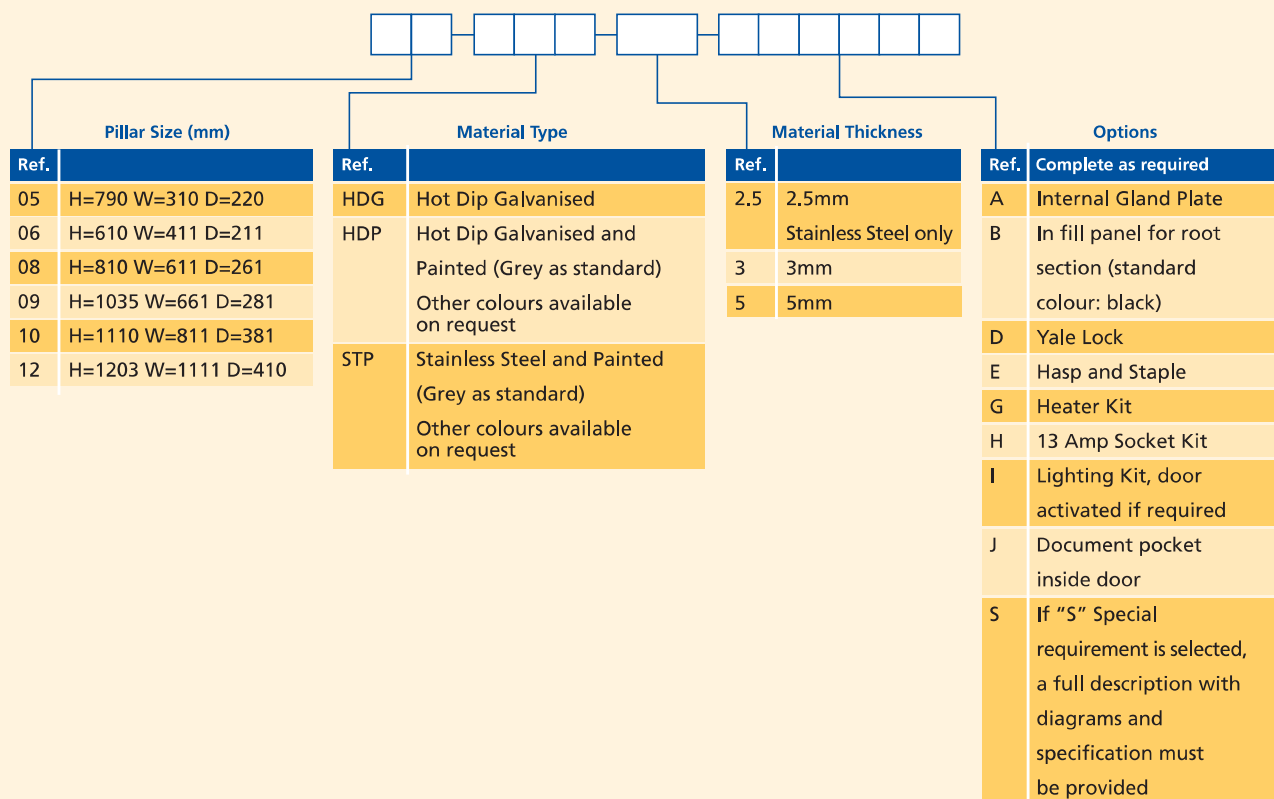
Fortress Range

Sheet Steel and Stainless Steel Single Door Hinged Pillars

Dimensions (mm)

Pillar size code	5	6	8	9	10	12
Height (H)	790	610	810	1035	1110	1203
Root Section (R)	350	300	300	350	350	350
Width (W)	310	411	611	661	811	1111
Depth (D)	220	211	261	281	381	410
Door Opening Height (DH)	580	415	615	840	915	1015
Door Opening Width (DW)	200	300	500	550	700	1000
Working Depth (WD)	170	155	225	225	325	375
Backboard Size (WxH)	630x300	380x455	580x655	630x880	780x955	1080x1040
Weight (Kg) (3mm thickness)	36	42.5	71.5	84	108	142

The ordering code consists of 4 sections





Perth College
Sports Pitch Floodlighting- Impact Study

Project Reference – HLS1588
Report by – Joe Witton
Date – 04/09/2020

Introduction

This report has been commissioned by Sports Labs Ltd to examine the proposed floodlighting installation at a new MUGA in Perth.

The lighting system has been designed to light the artificial areas for recreational play and general games to allow safe playing conditions in the winter months.

The report has been produced by Halliday Lighting, a specialist Sports Lighting Contractor with over 50 years of experience in Sports Lighting Engineering.

Site Location

The new development is located is shown below.



Site location shown below:

The surrounding land consists of residential housing. The nearest residential properties are to the south of the new development.

Summary

The floodlighting proposals have been designed using guidance outlined in the CIBSE lighting guide LG4. This document recommends a level of 200Lux for class 2 large ball sports such as football.

Details of how to calculate the optimum mast height are also shown in the CIBSE lighting guide LG4 and this should be 8m for the muga this complies with the ILP recommended maximum of 70°.

In order to ensure compliance with recommended light containment limitations the *ILP 'Guidance notes for the reduction of obtrusive light'* have been consulted. This document categorises the environment into five zones according to the degree of urbanisation and background illumination. The environmental zones categories are shown in Table 1 along with the allowances for spill light and glare in Table 2.

Table 1 – Environmental Zones			
Zone	Surrounding	Lighting Environment	Examples
E0	Protected	Dark	UNESCO Starlight Reserves, IDA Dark Sky Parks
E1	Natural	Intrinsically dark	National Parks, Areas of Outstanding Natural Beauty etc
E2	Rural	Low district brightness	Village or relatively dark outer suburban locations
E3	Suburban	Medium district brightness	Small town centres or suburban locations
E4	Urban	High district brightness	Town/city centres with high levels of night-time activity

Table 2 – Obtrusive Light Limitations for Exterior Lighting Installations – General Observers						
Environmental Zone	Sky Glow ULR [Max %] ⁽¹⁾	Light Intrusion (into Windows) E _v [lux] ⁽²⁾		Luminaire Intensity I [candelas] ⁽³⁾		Building Luminance Pre-curfew ⁽⁴⁾
		Pre-curfew	Post-curfew	Pre-curfew	Post-curfew	Average, L [cd/m ²]
E0	0	0	0	0	0	0
E1	0	2	0 (1*)	2,500	0	0
E2	2.5	5	1	7,500	500	5
E3	5.0	10	2	10,000	1,000	10
E4	15	25	5	25,000	2,500	25

The site in Perth is in a suburban area of medium district brightness the proposed floodlighting system is designed to comply with the recommendations for an environmental zone E3.

Proposed Lighting System

The proposed floodlighting system has been designed using floodlights manufactured by Philips Lighting. The floodlights we propose to use are Clearflood Large LED sports floodlights which features flat glass style optics designed to reduce upward waste light and overspill.

The lighting design details are shown on Halliday drawing Ref HLS1558. The drawing shows the proposed mast locations, floodlight orientation, pitch lighting levels and overspill predictions.

The proposals have been designed are using an independent lighting software package Calculux and confirmed as producing 99.999% correlation to the SI Standard Calculation.

The proposed masts are designed and calculated to the optimum height resulting in floodlight elevations of between 5° and 8° the Clearflood LED has a built in beam angle of 60° so when the floodlight is physically elevated this complies with the ILP recommended maximum of 70°.

Light overspill

Light containment is excellent with most spill light being cut off at the site boundary. A vertical overspill calculation has also been carried out at the location of the closest residential properties and the



LIGHTING

maximum vertical illuminance projected dwellings being less than 0.25Lux. This coupled with the upward light output ratio being calculated at <1% confirms that the proposed lighting installation will comply with the recommendations of the *ILP 'Guidance notes for the reduction of obtrusive light'* for an environmental zone E3.

Conclusion.

- The proposed lighting system has been designed to meet the specific lighting requirements for play whilst ensuring that nationally recognised environmental lighting standards are adhered to.
- The proposed system will therefore allow participants to play in safety whilst maintaining the amenity of neighbouring properties.
- The scheme is also below the maximum sky glow target of 5% as there is zero upward light.

In summary the proposed lighting scheme is compliant in all aspects.

Joe Witton

Design Director

Phone 01773 531444

Mobile 07885460737

Email joe@halliday-lighting.co.uk

Web www.Halliday-lighting.co.uk

PERTH COLLEGE UHI – ALL WEATHER PITCHES

Noise Impact Assessment – Rev 02

Report no. 7387-00-02

18th November 2021



PERTH COLLEGE UHI – ALL WEATHER PITCHES

Noise Impact Assessment – Rev 02

1 INTRODUCTION

This report is written on behalf of Sports Labs in response to the planning application (Ref. 21/01525/FLL) for the proposed all weather pitches at the Perth College UHI and to address points raised by Perth and Kinross Environmental Health in the memorandum dated 27th October 2021.

The purpose of this assessment is to assess noise impact from the proposed college and community use of the pitches. The assessment is undertaken applying suitable target levels from Sports England Guidance and adopting the methodology set out in the Tan to PAN 1/2011 Planning and Noise.

Mitigating measures required to meet both the target noise levels and a “minor” level of significance at all residential receptors are set out in general terms.

Guidance on the assessment of noise during the Covid-19 pandemic is taken from the joint IoA / ANC, *“Guidance on the Impact of COVID-19 on the Practicality and Reliability of Baseline Sound Level Surveying and the Provision of Sound & Noise Impact Assessments”* Version 6, January 2021. As uncertainty in existing noise levels remains elevated due to many activities and traffic flows being untypical because of Covid-19 related restrictions, alternative methods of establishing typical noise levels may be required.

All noise levels in this report are free field unless otherwise specified.

This report has been drafted by Callum Forsyth AMIOA, BSc, DipIoA and have been reviewed by Anne Budd MIOA, BEng Electroacoustics who has 16 years experience of environmental noise assessment in Scotland. All measurements at Perth UHI were undertaken by Callum Forsyth.

2 THE DEVELOPMENT

The proposed all weather pitch development is located to the south of the UHI Academy of Sport and Wellbeing building and will replace the existing grass playing fields. The pitches are positioned at the rear of the Academy building with neighbouring residential properties to the west on Brahan Terrace and south on Kingswell Terrace, Goodlyburn Primary School grounds to the north east and further grass pitches to the east.

The proposed development consists of 3 floodlight, artificial grass pitches (35x20m) enclosed with 5m weldmesh metal fencing. The fencing is 5m height on all sides of the pitch, with 150mm kickboard at the bottom of the fence.

Access to the pitches will be controlled via lockable gates. The college will use the pitch throughout the day and into the evening. With operating hours stated by UHI as:

- Mon-Fri 9am to 10pm
- Saturday 9am to 6pm
- Sunday 9am to 9pm

The pitches are expected to be used frequently during these times.

The site location and layout of the proposed pitches can be seen in Appendix 1.

3 LOCAL AUTHORITY GUIDANCE

In their consultation response to the planning application 21/01525/FLL RE: *Formation of all-weather sports pitches and access road, erection of fencing, installation of floodlighting and associated works land 100 Metres Southwest of Goodlyburn Primary School Crieff Road Perth for Perth College UHI* dated 27th October 2021, Perth Council Environmental Health provided the following text with regard to noise;

"Noise

There is the potential for noise nuisance at these residential properties due to the possible intensive usage of the area due to the multi-activity sport pitches, as there is the potential for all three pitches to be in use simultaneously.

The new facility shall be enclosed by a 5.0m high twin-wire fencing system and the submitted design and access statement dated August 2021 states; "It shall be ensured that all fencing is installed correctly to mitigate against noise generated, rubber dampers and washers are included within the fencing system to reduce any noise generated by balls rebounding off the system."

This Service has dealt with a number of complaints in relation to the use of multi use games areas (MUGA's) throughout Perth & Kinross area. Noise can arise from patrons using the area and from balls repetitively hitting the fencing/kickboards (without rubber/turf); especially from hockey activities. It is also my understanding that twin bar systems are not recommended for hockey use.

I have no powers to deal with general noise caused by people attending or participating in events.

In light of the above I recommend that the applicant submits a noise impact assessment to determine the potential impact of the multi activity sport pitches on existing local residents, with particular regard to community use outside of the college use."

4 STANDARDS & GUIDES

Relevant standards and guidance are set out below.

4.1 WHO Guidelines

The World Health Organisation, *Environmental Noise Guidelines for the European Region*, 2018 provides recommendations "for protecting human health from exposure to environmental noise originating from various sources".

The WHO Environmental Noise Guidelines for the European Region 2018 supersede the WHO Community Noise Guidelines from 1999. However, the Environmental Noise Guidelines states that all CNG indoor guideline values and any values not covered by the current guidelines remain valid and that the new guidelines "compliment" the WHO Nighttime Noise Guidance 2009.

The recommendations in WHO 2018 are based on systematic review. The recommendations are health based and are not assessed within the document for their economic impact. We understand national governments are still reviewing how these guidelines will be adopted at national level.

Recommendations are provided for individual noise sources only. Including road, rail, aircraft, wind turbines and leisure¹ noise. In the case of road traffic noise, the parameter used is L_{den} , as follows:

"For average noise exposure, the GDG strongly recommends reducing noise levels produced by road traffic below 53 decibels (dB) L_{den} , as road traffic noise above this level is associated with adverse health effects."

The use of L_{den} enables comparison with European Directive Noise Mapping figures (strategic noise mapping) but as a parameter L_{den} not been adopted to date in the UK for setting national or regional noise guidance for developments. The recommendations in the WHO ENG 2018 are therefore not considered relevant in the case of the AGP at Perth UHI.

As the WHO ENG 2018 does not cover "other" noise sources, the noise levels as set out in the WHO CNG 1999 for "outdoor living areas" (noise from sources other than roads, rail, aircraft and wind turbines) for avoidance of "serious annoyance" (55dB $L_{Aeq,16hr}$) and "moderate annoyance" (50dB $L_{Aeq,16hr}$) are still valid and can be applied in the case of activity on sports pitches which the WHO CNG 1999 classes as a "community noise activity".

¹ Leisure noise in this context refers to all noise sources that people are exposed to due to leisure activities, such as attending nightclubs, pubs, fitness classes, live sporting events, concerts or live music venues and listening to loud music through personal listening devices. Recommendations are set at a level to protect hearing and are not considered relevant in this instance (at Perth UHI) to environmental noise impact on neighbours to all weather pitches. .

4.2 Sports England AGP Acoustics

In 2015, Sport England conducted a study of noise from AGP facilities, resulting in the production of a design guidance note, *"Artificial Grass Pitches (AGP) Acoustics – Planning Implications"*.

The guidance contains representative noise levels from AGP use (specifically excluding smaller MUGA style pitches and multi-pitch football centres with rebound boards), noting that the worst case noise level is adjacent to the halfway line position. It notes that,

"The most significant noise levels were found to be generally derived from the voices of players, with the exception of hockey where impact noises of balls hitting perimeter strike boards and goal back boards were more noticeable. Such impact noises can be mitigated by incorporating shock absorbing noise reduction measures. Assuming such mitigation measures, the most significant noise source from typical AGP sports sessions is therefore voice and as such, a typical noise level can be determined".

The guidance suggests the use of a fixed noise level at residential receptors to avoid moderate annoyance during daytime and evening periods of 50dB $L_{Aeq,1hr}$, based on the figure from the WHO CNG 1999 for avoidance of *"moderate annoyance"*, however, the Sports England guidance recommends a shortened assessment period, equivalent to the length of a typical sports "let" i.e. 1 hour, rather than the normal 16 hour daytime period.

4.3 Sports Scotland Guidance

Sports Scotland Planning Guidance on the siting of synthetic grass pitches provides guideline noise levels from sports and refers to the method of noise impact assessment set out in the TAN to PAN 1/2011 Planning & Noise.

4.4 BS 8233: 2014

BS8233:2014 *"Guidance on Sound Insulation and Noise Reduction in Buildings"* provides design criteria for external noise in outdoor amenity areas in Section 7.7.3.2, where it states that,

"For traditional external areas that are used for amenity space, such as gardens and patios, it is desirable that the external noise level does not exceed 50 dB $L_{Aeq,T}$, with an upper guideline value of 55 dB $L_{Aeq,T}$ which would be acceptable in noisier environments."

These figures correspond to the values found in the now superseded WHO CNG 1999.

Reference to limiting of "maximum" noise levels in the BS 8233 guidance on dwellings is restricted to the night time

periods e.g. between 2300-0700 hours, as it is specially used to prevent sleep disturbance

4.5 PAN 1/2011 – Planning & Noise

For recreational and sporting venues PAN 1/2011, states that NIAs [noise impact assessments] should take account of how frequently the noise will be generated and how disturbing it will be and should demonstrate that the proposed activity does not have an adverse impact on nearby noise sensitive land uses.

The Technical Advice Note to PAN 1/2011 also sets out a method for assessing impact of noise where a noise generating development (NGD) is being introduced close to noise sensitive receptors (NSR). The method uses both a quantitative and a qualitative assessment to establish overall noise impact.

For noise generating development (NGD), the Technical Advice Note provides a procedure for assessing the noise impact on residential property which is based on the principles described in BS4142:1997 *"Method of rating industrial noise affecting mixed industrial and residential areas"* but does not adhere to the BS4142 method of evaluation. BS4142:1997 is now withdrawn and replaced by BS 4142-2014 + A1-2019 *"Methods for rating and assessing industrial and commercial sound"*. The outcome of this part of this assessment is to assign a "sensitivity" to the receptor. Since in the case of Perth UHI the receptors around the development are either residential or a school the receptors would be considered of "high" sensitivity to noise, this part of the methodology is superfluous and will not be included in the assessment.

The quantitative part of the assessment is a "relative" method of assessment, based on an estimate of the change in external noise level ($L_{Aeq,T}$) before and after the development is operational.

The magnitude of impact (quantitative assessment only) for a new noise source based on this method is shown in Table 4.1.

Table 4.1 - Impact of Change in External Noise Level	
Change in Noise Level [new ambient noise ¹ -existing ambient noise]	Magnitude of Impact
≥5	Major Adverse
3 – 4.9	Moderate Adverse
1 – 2.9	Minor Adverse
0.1 – 0.9	Negligible
0	No Change

¹ new ambient noise = new specific noise + existing ambient noise

Based on the assigned sensitivity of the receivers and the magnitudes of impact and taking into account any additional qualitative factors such as frequency spectrum of the source, period of day the source will run etc. "levels of significance" are assigned for all receivers, as shown in Table 4.2.

Table 4.2 – TAN Level of Significance (based on external noise levels)			
Magnitude of Impact (After – Before) L_{Aeq,T} (dB)	Sensitivity of receptor based on likelihood of complaint, x = Rating Level – Background (dB)		
	Low (x<5)	Medium (5≤x<10)	High (x≥10)
Major	Slight/Moderate	Moderate/Large	Large/Very Large
Moderate	Slight	Moderate	Moderate/Large
Minor	Neutral/Slight	Slight	Slight/Moderate
Negligible	Neutral/Slight	Neutral/Slight	Slight
No change	Neutral	Neutral	Neutral

The level of significance indicates the relevance of the noise in the decision making process and is useful as an indication of where mitigation is required. The relevance to the decision making process of each level of significance is shown in Table 4.3.

Table 4.3 – Relevance to Decision Making Process	
Level of Significance	Relevance to decision making process
Very Large	These effects represent key factors in the decision-making process. They are generally, but not exclusively, associated with impacts where mitigation if not practical or would be ineffective
Large	These effects are likely to be important considerations but where mitigation may be effectively employed such that resultant adverse effects are likely to have a Moderate or Slight significance
Moderate	These effects, if adverse, while important, are not likely to be key decision making issues
Slight	These effects may be raised but are unlikely to be of importance in the decision making process
Neutral	No effect, not significant, noise need not be considered as a determining factor in the decision making process

5 NOISE SENSITIVE RECEPTORS

The nearest noise sensitive receptors to the proposed pitches are the residential properties on Brahan Terrace (semi-detached no. 1 and 2) which are elevated above the existing pitch area and those on Kingswell Terrace (end terrace no. 91 which is also elevated above the pitch area and 45 which is on ground that is slightly lower than the pitch area). The houses are two storey with the closest property on Brahan Terrace to the east at ~47m from proposed new pitch fence and the two storey houses on Kingswell Terrace to the southeast and southwest at ~39m and ~44m respectively from the proposed pitch fence.

The residential properties have garden fences on the boundary to the college grounds, these fences are considered to have open areas extensive enough to consider them acoustically irrelevant.

The residential receptors are sensitive to noise during both the day and evening periods. The current houses are exposed to noise from any current activities on the existing grass pitches and to noise from outdoor activities at the school.

Goodlyburn Primary School is adjacent to the Academy of Sport and Wellbeing, with the school building, hard ground playground and green space along the boundary. The nearest part of the school building is at ~25m from the proposed pitch fence. The school is two storey with opening windows. Being a school, sensitive hours are between 9am-3pm although sensitivity of activity in school will depend on timetabling and many activities take place outside in the school grounds. Children in class are therefore exposed to noise from both environmental sources and other school activities both inside and outside the building.

The TAN states that the residential receptors are "high" sensitivity to noise and that the school itself is "high" sensitivity but only during the day time hours. However, Building Bulletin 93 Acoustic Design of Schools (2015) specifically excludes noise from teaching activities from the assessment of indoor ambient noise.

6 EXISTING NOISE LEVELS

With regard to existing noise levels it is acknowledged that the current use of the college grass pitches and the college in general is not the same as pre-pandemic. With regard to this matter the college have provided the following statement on noise levels currently being generated:

"Since March 2020 and the onset of COVID 19 the college has had to deliver learning to students in different ways. Most of the learning throughout COVID 19 was online, delivered by staff working from home. With easing of restrictions and students returning to college in September 2021 the learning is now a blended approach. Face to face and online. This equates to approx. 60% of students on campus and 40% off campus learning through online delivery. Staff numbers are also reduced with approximately 70% of staff on campus and 30%

working from home. Therefore, the noise levels currently on college campus are significantly lower than would be the case pre covid."

With most students and staff not in college for teaching, noise levels measured in November 2021 at receptors surrounding the college are likely to be lower than "normal" (pre-covid), particularly due to lack of use of the outdoor pitches. This context is taken into account during the qualitative assessment process.

Measurements of existing noise levels were made at four positions representative of the surrounding noise sensitive receptors during the daytime (12:00-16:00 hours) and three positions during the evening (20:00-22:00 hours) on 4th November 2021.

Measurement position 1 to the rear of no. 1 Brahan Terrace was chosen to represent neighbours at the top of the hill to the west of site, particularly no. 1 and 2 Brahan Terrace.

Measurement position 2 was chosen to represent properties on Kingswell Terrace to the southwest, particularly no. 91 which is directly adjacent to the boundary with site.

Measurement position 3 was chosen to represent properties on Kingswell Terrace to the southeast, particularly no. 45 with a boundary to site.

Measurement 4 was close to the boundary with the school playground and was chosen to provide noise levels experienced at the school during school hours.

Measurement locations can be seen on the satellite image in Appendix 2, along with photographs of the measurement equipment in situ.

Measurements were made using a Brüel & Kjær Type 2250 sound level meter (serial number: 2479699, fitted with a standard foam windshield (Type UA1650) on a tripod mounted at a height of 1.2m. The meter was calibrated before and after measurement using a Brüel & Kjær Type 4231 calibrator and calibration signals recorded. Measurements were attended throughout by the measurement engineer.

Weather conditions monitored on site during the day were dry with patchy cloud, a temperature of 7°C and a NW wind at speeds up to 4m/s. Weather conditions monitored on site during the evening were dry with patchy cloud, a temperature of 6°C and a WSW wind at speeds up to 3m/s.

During the daytime, measurements of L_{Aeq} and L_{AF90} and L_{AFmax} were made for a total of 1 hour (4no. 15 minute periods logged in 5 minutes) at positions 1, 2 and 3 and 30 minutes at position 4 (2no. 15 minutes logged in 5 minutes).

During the evening, measurements of L_{Aeq} and L_{AF90} and L_{AFmax} were made in 15 minute rotations for a total of 30 minutes at positions 1, 2 and 3. No measurements were made at position 4 during the evening as this is outwith the school day. The 15 minute measurement data can be seen in Table 6.1 and 6.2 and the logged 5 minute data with accompanying notes can be seen in Appendix 3.

Table 6.1: Measured Daytime existing external noise levels

Position	Start time	Ambient noise level (dB) LAeq,15min	Background noise level (dB) LA90,15min	Notes
1	12:00	45.9	42.5	Some children in playground
	13:09	52.6	46.8	Some children in playground
	14:15	48.2	40.0	Some children in playground
	15:06	49.1	39.0	
2	12:17	51.8	46.8	Some children in playground
	13:26	45.8	40.8	
	14:32	53.0	40.4	
	15:23	45.9	36.3	
3	12:35	52.1	45.1	Some children in playground
	13:42	52.2	43.5	
	14:49	53.8	42.3	
	15:40	54.4	39.5	School closing
4	12:52	66.2	57.9	School lunchtime (all children out)
	13:59	48.5	42.9	

Table 6.2: Measured Evening existing external noise levels

Position	Start time	Ambient noise level (dB) LAeq,15min	Background noise level (dB) LA90,15min	Notes
1	20:00	42.2	37.6	
	20:55	46.9	37.7	
2	20:17	47.3	36.2	Children on the field
	21:12	37.2	34.0	
3	20:34	46.8	35.9	
	21:28	42.9	36.7	

During the measurements the noise environment consisted of traffic on local and distant roads, noise of children, noise from trees, neighbours walking dogs etc. Noise was also audible from the UHI building services plant through both day and evening periods.

During the day groups of children from the school are frequently in the playground and/or the adjacent green space for lessons and for activities such as the daily mile. Noise from this source is not considered anomalous to the typical noise environment at the receptors and is not removed from the average noise levels, however, noise from the lunch time period when the whole school is out in the playground generating high noise levels at all surrounding receptors has been removed from the averages as this

level of noise only occur for short periods in the day and is not considered typical.

At measurement position 4 which is representative of the school, noise levels recorded outwith the lunch period have no other children outside and are therefore lower than the typical daytime noise environment experience at the school. This will be taken into account in the qualitative assessment as the real "existing" typical 1 hour noise level is likely to be higher than the average 47.7dBA measured, although not as high as the 66.2dBA recorded during lunchtime.

7 SOURCE NOISE

The highest level of noise from the pitch during a Community Let or College use is likely to be when there is a session of games on the pitch. New Acoustics have measured various activities of this sort. For example, the following were all measured at (or corrected to) a distance of 4m. These are all relatively informal amateur games played at private clubs or schools. Average means the L_{Aeq} value and "maximum" is the L_{AFmax} .

During a five-a-side practice match the average noise level was 61dBA and the maximum noise level was 75dBA. The match was "low key" without a referee and therefore with no whistle. Most of the noise was from the impact of the foot on the ball and calls between the players.

Other 5-a-side matches with adults playing proper games that New Acoustics have measured averaged 59.0 to 62.0dBA

Extensive measurements of after school use of a large 3G pitch for football (training and matches under 15s, under 12s and under 9s) returned noise levels averaged between 57-61dBA, with maximum noise levels relating to the ball being kicked at the fence of between 70-80dBA.

A children's hockey training and practice session had an average noise level of 57dBA and a maximum noise level of 81dBA. Most of the noise was from people talking and from impact of the ball on sticks and perimeter boards. No game was played and so there was no whistle and little real play.

A women's doubles tennis match had an average noise level of 50dBA and a maximum noise level of 66dBA. Most of the noise was that of the impact of the ball on the court and racquets and conversation and calling between the players.

Three men practising tennis averaged 53dBA with a maximum level of 67dBA.

From the above measurements, it can be concluded that generally the noise levels would be an average of around 60dBA except tennis which is up to 10dB lower. Generally, the maximum levels from ball games are around 15dBA higher than this though the maximum level of hockey is 20 to 25dBA higher than the average. All the pitches where these measurements were made except the tennis court and larger 3G football pitch had rebound boards and the noise from these was a significant element of the total noise.

The 2015 Sport England Design Guidance Note on AGP Noise states that the noise level for 1 hour is 58dBA @ 10m (based on a survey of nine sports sessions). This is the very similar to the 60dBA @ 4m used in New Acoustics assessments based on library measurement data set out above. These noise levels will therefore be used to calibrate the pitch noise level in the noise model for the assessment at Perth College UHI.

8 NOISE MODEL

In order to assess the noise level at the nearest neighbours associated with the of the pitches in use, an ISO 9613 Cadna-A noise model has been created (Version 2021 MR2).

The pitch noise is modelled as per the Sports England Guidance as 3 single area sources. These sources have been positioned at a height of 1.5m above the pitch surface (33.5m ASL) to represent the mouth height of typical users (adult height). Receivers have been located to represent four noise sensitive receptors as shown on the model image in Appendix 4, details of receiver heights above ground level are also provided in Appendix 4.

The location plan was taken from Sport Lab drawing no. 2924 - Perth College UHI - Contract Drawings 08_21 REV2 with mapping from OS VectorMap and local topography from OS Terrain supplied by Ordnance Survey.

Ground absorption has been set to $G=0.5$ (mix of hard and soft ground) to calibrate the pitch noise and $G=1$ (soft ground) for the model itself. An additional area set to $G=0$ (hard ground) was applied to the area representing the school playground. The air temperature set to 10°C with 70% relative humidity to provide typical scenario for air absorption. Buildings are reflective with 2 no. reflections included in the model.

The frequency spectrum for each individual pitch noise has been applied to the 58dB@10m and 60dB@4m figures discussed in section 7 and converted to an area source with sound power level as shown in Table 8. The frequency spectrum shape applied to the single figure value is based on previous measurements of sports pitches in schools. Details of the calibrated noise levels and layout of the calibration model for pitch noise can be seen in Appendix 4.

Table 8 – Sound Power Level of each pitch AGP (58dB SPL @ 10m)

Frequency (Hz)	63	125	250	500	1k	2k	4k	8k	dBA	dB
SWL AGP (dB)	92.7	84.7	82.8	89.7	95.4	96	87.5	75.3	100.0	100.5

Pitch one is furthest to the south, pitch two is in the centre and pitch 3 is nearest the college building. Models have been run for one (pitch one only), two (pitches one and two only) and three pitches in use.

9 PREDICTED NOISE LEVELS

The Cadna-A modelled external noise levels (1 hour L_{Aeq}) from the pitches at each of the receptors (ground and first floor) are shown in Table 9, for one, two and three pitches in use. The corresponding 4m high noise contour graphic can be seen in Appendix 5.

Table 9 – Predicted Noise Levels			
Receiver Position	3 pitches active, $L_{Aeq,1hr}$ (dB)	2 pitches active, $L_{Aeq,1hr}$ (dB)	1 pitch active, $L_{Aeq,1hr}$ (dB)
1 (Ground)	50.3	48.5	45.1
1 (First)	50.7	48.7	45.3
2 (Ground)	50.3	49.2	47.2
2 (First)	49.9	48.9	46.8
3 (Ground)	49.2	48.2	46.0
3 (First)	49.3	48.2	46.1
4 (Ground)	51.6	48.6	44.2
4 (First)	51.6	48.6	44.2

With two of the pitches in use, the predicted noise level at all NSRs meets the Sport England guidance figure of 50dBA externally with no mitigation. However, the predicted noise levels exceed the 50dBA target at the school and marginally exceeds 50dBA at two of the residential receptors when all 3 pitches are in use simultaneously.

10 ASSESSMENT

The Sport England guidance / WHO Guideline figure of 50dBA externally to protect the majority of people from being *moderately* annoyed is achieved for all the identified noise sensitive receptors with no mitigation when two of the three pitches is in use. When three pitches are in simultaneous use the 50dBA level is exceeded at some NSRs.

The TAN quantitative assessment of the noise level from the pitches during the day and evening are shown for 1, 2 and 3 pitches in simultaneous use for day and evening periods in Appendix 6, Tables A6.1 – A6.6.

With only 1 pitch active the quantitative level of significance during the day and evening is "slight" or "slight/moderate", however, in the evening the level of significance is predicted to be "moderate/large" at all NSRs.

With 2 pitches simultaneously in use the quantitative level of significance during the day is "slight/moderate" at the residential NSRs and "moderate/large" at the school, although this is reduced when put into the context of normal outdoor learning time at the school which was not captured in the "existing" noise level data set for the school, as well as that existing noise levels are impacted by reduced activity due to Covid.

In addition, the context of the school is that it is only operational during the less sensitive day time hours, unlike the residential neighbours where more sensitive activities relating to sleep may be taking place in the evening period. In the evening with 2 pitches active simultaneously the quantitative level of significance at the residential NSRs is "large/very large" or "moderate/large". The school is not assessed in the evening period.

With all 3 pitches active simultaneously the quantitative level of significance during the day is still "moderate/large" at the school. At the other residential NSRs with all 3 pitches active simultaneously the quantitative level of significance during the day is "slight/moderate" or "moderate/large". In the evening with 3 pitches active simultaneously the level of significance becomes "large/very large" at all residential NSRs. The school is not assessed in the evening period.

The assessments presented here are for individual 1 hour periods. The TAN states the qualitative assessment should take into account the frequency of use etc. In reality, the level of activity on the 3 pitches will fluctuate throughout the day and evening with some periods of 3 pitches in use, but much more commonly only 1 or 2 pitches being occupied. The context at site is therefore that noise impacts will vary over time. With some low impact periods and some higher impact periods. In addition, the impact of Covid on the college activities and the subsequent reduction in noise levels in the area means that "existing" noise levels used in the assessment are lower than what would have been considered normal. Were noise at pre-Covid levels it is clear that levels of significance would be reduced. In particular for the school NSR the impact during the day should be modified qualitatively due to the "existing" noise level not including any contribution from children in the outdoor areas.

The TAN describes a "very large" level of significance as, *"These effects represent key factors in the decision-making process. They are generally, but not exclusively, associated with impacts where mitigation if not practical or would be ineffective"* and a "large" level of significance as, *"These effects are likely to be important considerations but where mitigation may be effectively employed such that resultant adverse effects are likely to have a Moderate or Slight significance"*.

Mitigating measures are required to be put in place to reduce the predicted noise level to 50dBA and the overall pitch noise quantitative impact to "minor" and the level of significance to be no more than "moderate" at the residential receptors. At the school the quantitative impact can be higher than that for the residential neighbours given that the qualitative assessment moderates the outcome to a greater extent.

11 MITIGATION

Mitigating measures which are already included in the design of the pitch include the inclusion of rubber inserts between fence panels and posts to reduce ball impact noise and the restriction of use of the pitches by secure access and a booking system limited to the operating hours.

In addition, the pitches will not have rebound fences required for 5-a-side football and hockey. We understand the surface being installed is multi-purpose and is not design specifically as a hockey surface which requires shorter artificial turf system (grass blades 11-14mm long) compared to artificial turf for football which has a blade height of 30mm.

Extra mitigations are proposed here in the form of acoustic barriers located outwith the ball stop fence on 4 sides of the pitch. Layout and heights of the 4-sided barrier mitigation can be seen in Appendix 7.

Noise levels for 3, 2 and 1 pitch operating simultaneously have predicted in the Cadna-A model with the barrier mitigation in place. Predicted noise levels with barrier mitigation are shown in Appendix 8.

Barrier mitigation has been configured to provide a predicted external noise level of $\leq 50\text{dBA}$ at all the residential NSRs as well as a quantitative "minor" magnitude of impact and no more than "slight/moderate" level of significance from 3 pitches being used simultaneously during the day and evening periods.

Quantitative impacts are shown in Table 11.1 and 11.2 for 3 pitches in use simultaneously. Quantitative impacts for 2 and 1 pitches operating can be seen in Appendix 9. Qualitative assessment will reduce these levels of impact as described in Section 10 due to Covid impacts on existing noise levels.

The proposed barrier mitigation is predicted to achieve $<50\text{dBA}$ at the ground floor of the school and results in a very minor exceedance of the 50dBA target ($+0.2\text{dB}$) at the first floor. Due to the low measured "existing" noise level (measured with reduced college activity and when there were no children outside at all, which is not the normal condition through the school day) the TAN level of significance remains "moderate/large". However, taking the low measured existing noise level into account the qualitative impact is modified down.

Table 11.1: Barrier Mitigation Daytime Quantitative Impact Assessment (3 Pitches Active)

Receiver	Existing Noise Level $L_{Aeq,1hr}$ (dB)	Predicted External Noise Level, $L_{Aeq,1hr}$ (dB)	New Ambient Noise Level, $L_{Aeq,1hr}^*$ (dB)	Change in Noise Level (dB)	Magnitude of Impact	Level of Significance
1 (ground)	49.6	43.1	50.5	0.9	Negligible	Slight
1 (first)	49.6	44.9	50.9	1.3	Minor	Slight/Moderate
2 (ground)	50.3	40.9	50.8	0.5	Negligible	Slight
2 (first)	50.3	43.3	51.1	0.8	Negligible	Slight
3 (ground)	53.2	39.8	53.4	0.2	Negligible	Slight
3 (first)	53.2	43.2	53.6	0.4	Negligible	Slight
4 (ground)	48.5	49.2	51.9	3.4	Moderate	Moderate/Large
4 (first)	48.5	50.2	52.4	3.9	Moderate	Moderate/Large

*Existing plus new predicted noise

Table 11.2: Barrier Mitigation Evening Quantitative Impact Assessment (3 Pitches Active)

Receiver	Existing Noise Level L _{Aeq,1hr} (dB)	Predicted External Noise Level, L _{Aeq,1hr} (dB)	New Ambient Noise Level, L _{Aeq,1hr} * (dB)	Change in Noise Level (dB)	Magnitude of Impact	Level of Significance
1 (ground)	45.2	43.1	47.3	2.1	Minor	Slight/Moderate
1 (4.2m)	45.2	44.9	48.1	2.9	Minor	Slight/Moderate
2 (2m)	44.7	40.9	46.2	1.5	Minor	Slight/Moderate
2 (5m)	44.7	43.3	47.1	2.4	Minor	Slight/Moderate
3 (2.5m)	45.3	39.8	46.4	1.1	Minor	Slight/Moderate
3 (5.5m)	45.3	43.2	47.4	2.1	Minor	Slight/Moderate

*Existing plus new predicted noise

The TAN describes a “moderate” level of significance as, *“These effects, if adverse, while important, are not likely to be key decision making issues”* and a “slight” level of significance as, *“These effects may be raised but are unlikely to be of importance in the decision making process”*.

No further mitigating measures are proposed.

The acoustic barriers must be of solid construction with no gaps between the fence panels, posts or at the junction with ground, and a surface density of at least 10kg/m² maintained over the life time of the construction. Fence at install to be no less than 25 kg/m² such as provided by proprietary fence product *Jakoustic Commercial and Highway Acoustic Fencing* www.jacksons-security.co.uk or green barrier equivalent such as *Acoustic 120 Economy Green Barrier in living Willow* www.etsluk.com/acoustic_green_barriers. Combination of bunds and barriers are also acceptable acoustically.

12 CONCLUSION

A noise impact assessment has been conducted for the noise from the three proposed all-weather pitches to be installed on the existing grass playing fields to the south of the Perth College UHI Academy of Sport and Wellbeing building (Planning Ref. 21/01525/FLL).

The assessment is undertaken in accordance with relevant standards and guidance. Noise from the pitches is modelled in Cadna-A environmental noise modelling software based on measured library noise data and relevant guidance.

Measurements of existing noise at the site were conducted during day and evening periods for which the pitches will operate. Consideration has been given to the impact of Covid on the existing noise levels measured as recommended in the IoA / ANC, *“Guidance on the Impact of COVID-19 on the Practicality and Reliability of Baseline Sound Level Surveying and the*

Provision of Sound & Noise Impact Assessments Version 6, January 2021. This reduction in existing noise is referred in the qualitative assessment and moderates outcomes.

Predicted noise levels are assessed against the Sports England target level of 50dBA as well as using the relative assessment method set out in the TAN to PAN 1/2011 comparing future ambient to existing ambient noise levels.

Mitigation is proposed in the form of barriers to be located outwith the ball stop fence.

Barrier mitigation has been configured to provide a predicted external noise level of $\leq 50\text{dBA}$ in compliance with the absolute noise level guidance at all the residential receptors and a corresponding "minor" magnitude of impact and no greater than "slight/moderate" level of significance from 3 pitches being used simultaneously during both the day and during the evening.

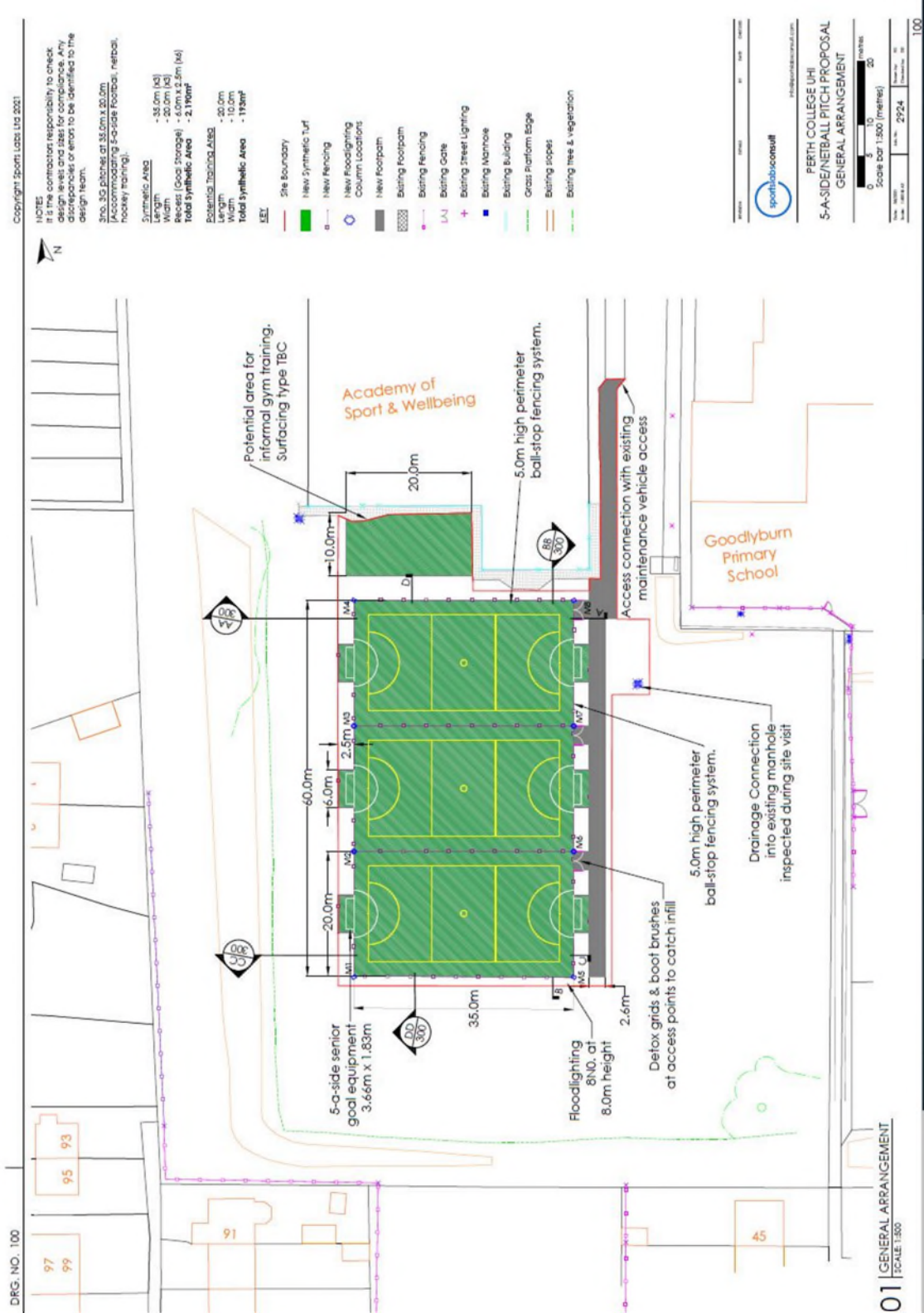
The TAN describes a "moderate" level of significance as, *"These effects, if adverse, while important, are not likely to be key decision making issues"* and a "slight" level of significance as, *"These effects may be raised but are unlikely to be of importance in the decision making process"*.

The qualitative assessment taking into account the current reduction in existing noise levels reduces these predicted impacts, as does the fact that the number of pitches in use through the day and evening periods will vary.

At the school, barrier mitigation is predicted to achieve $< 50\text{dBA}$ at the ground floor and a very minor exceedance (+0.2dB) at the first floor in compliance with the absolute noise level guidance. Due to the low measured "existing" noise level (measured with reduced college activity and when there were no children outside at all, which is not the normal condition through the school day) the TAN level of significance remains "moderate/large" at the school. However, taking the low measured existing noise level into account the qualitative impact is modified down.

The TAN describes a "moderate" level of significance as, *"These effects, if adverse, while important, are not likely to be key decision making issues"*.

APPENDIX 1 – LOCATION & SITE PLAN



APPENDIX 2 – MEASUREMENT LOCATIONS AND EQUIPMENT IN SITU

The image below shows the measurement positions taken on 04/11/21.



(c) Getmapping plc.

Measurement equipment in situ:

Position 1



Position 2



Position 3



Position 4



APPENDIX 3 – EXISTING NOISE DATA

Table A3.1 Daytime measurement data						
Position	Date/Start Time	Elapsed Time	LAFmax	LAeq	LAF90.0	Notes
1	04/11/2021 12:00	00:05:00	62.0	46.4	42.1	Some children in playground
1	04/11/2021 12:05	00:05:00	61.8	45.5	42.3	Some children in playground
1	04/11/2021 12:10	00:05:00	51.7	45.7	43.4	Some children in playground
1	04/11/2021 13:09	00:05:00	67.3	53.0	48.5	Some children in playground
1	04/11/2021 13:14	00:05:00	65.3	53.5	48.5	Some children in playground
1	04/11/2021 13:19	00:05:00	65.1	50.7	44.3	Some children in playground
1	04/11/2021 14:15	00:05:00	58.9	48.2	40.5	
1	04/11/2021 14:20	00:05:00	58.9	48.7	40.8	
1	04/11/2021 14:25	00:05:00	71.4	47.5	39.4	
1	04/11/2021 15:06	00:05:00	64.5	51.1	43.5	
1	04/11/2021 15:11	00:05:00	70.0	48.9	42.4	
1	04/11/2021 15:16	00:05:00	70.0	45.8	38.0	
		average:		49.6		
2	04/11/2021 12:17	00:05:00	61.8	50.2	46.4	Some children in playground
2	04/11/2021 12:22	00:05:00	69.0	52.7	47.0	Some children in playground
2	04/11/2021 12:27	00:05:00	66.3	52.2	47.3	Some children in playground
2	04/11/2021 13:26	00:05:00	60.6	43.7	41.3	
2	04/11/2021 13:31	00:05:00	71.8	47.3	40.3	
2	04/11/2021 13:36	00:05:00	63.0	45.7	40.8	
2	04/11/2021 14:32	00:05:00	73.5	56.4	39.4	
2	04/11/2021 14:37	00:05:00	64.6	47.7	41.4	
2	04/11/2021 14:42	00:05:00	69.1	50.5	41.2	
2	04/11/2021 15:23	00:05:00	65.2	46.1	36.8	
2	04/11/2021 15:28	00:05:00	66.5	43.9	36.4	
2	04/11/2021 15:33	00:05:00	71.2	47.1	35.8	
		average:		50.3		
3	04/11/2021 12:35	00:05:00	67.1	52.7	46.8	Some children in playground

3	04/11/2021 12:40	00:05:00	67.2	53.9	47.7	Some children in playground
3	04/11/2021 12:45	00:05:00	62.0	47.3	44.1	Some children in playground
3	04/11/2021 13:42	00:05:00	68.0	49.8	43.0	
3	04/11/2021 13:47	00:05:00	70.3	53.5	44.4	
3	04/11/2021 13:52	00:05:00	68.3	52.5	43.7	
3	04/11/2021 14:49	00:05:00	68.0	48.0	41.3	
3	04/11/2021 14:54	00:05:00	70.2	50.9	43.1	
3	04/11/2021 14:59	00:05:00	79.1	57.3	46.2	School closing time
3	04/11/2021 15:40	00:05:00	69.9	46.2	38.4	
3	04/11/2021 15:45	00:05:00	77.2	54.0	39.9	
3	04/11/2021 15:50	00:05:00	79.5	57.3	42.9	
		average:		53.2		
4	04/11/2021 12:52	00:05:00	84.5	67.1	59.5	School Lunchtime*
4	04/11/2021 12:57	00:05:00	80.0	65.6	57.6	School Lunchtime*
4	04/11/2021 13:02	00:05:00	82.1	65.6	57.4	School Lunchtime*
4	04/11/2021 13:59	00:05:00	68.1	50.8	46.1	
4	04/11/2021 14:04	00:05:00	65.9	47.2	43.4	
4	04/11/2021 14:09	00:05:00	63.0	45.9	42.3	
		average:		48.5		

*5 minute period removed from averages

Table A3.2 Evening measurement data						
Position	Date/Start Time	Elapsed Time	LAFmax	LAeq	LAF90.0	Notes
1	04/11/2021 19:59	00:05:00	65.4	44.2	38.7	
1	04/11/2021 20:04	00:05:00	64.8	41.1	37.4	
1	04/11/2021 20:09	00:05:00	56.3	40.1	37.2	
1	04/11/2021 20:55	00:05:00	67.8	46.3	39.2	
1	04/11/2021 21:00	00:05:00	64.1	44.1	37.5	
1	04/11/2021 21:05	00:05:00	69.5	49.0	37.3	
		average:		45.2		
2	04/11/2021 20:17	00:05:00	68.9	46.2	36.9	Children on the field
2	04/11/2021 20:22	00:05:00	76.7	49.9	36.8	Children on the field
2	04/11/2021 20:27	00:05:00	63.8	43.1	35.6	Children on the field
2	04/11/2021 21:12	00:05:00	59.4	37.9	34.6	
2	04/11/2021 21:17	00:05:00	59.1	36.1	33.9	
2	04/11/2021 21:22	00:05:00	62.2	37.4	33.8	
		average:		44.7		

3	04/11/2021 20:34	00:05:00	70.1	46.9	35.3	
3	04/11/2021 20:39	00:05:00	70.4	48.8	36.8	
3	04/11/2021 20:44	00:05:00	65.6	43.2	36.0	
3	04/11/2021 21:28	00:05:00	71.2	44.3	36.6	
3	04/11/2021 21:33	00:05:00	61.6	42.1	36.4	
3	04/11/2021 21:38	00:05:00	62.6	41.9	37.4	
		average:		45.3		

*5 minute period removed from averages

APPENDIX 4 – MODEL AND CALIBRATION LAYOUTS

Figure A4.1 below shows the model layout including the receiver locations. $G=1.0$ (absorbing ground) other than the school playground which is $G=0.0$ (hard ground).

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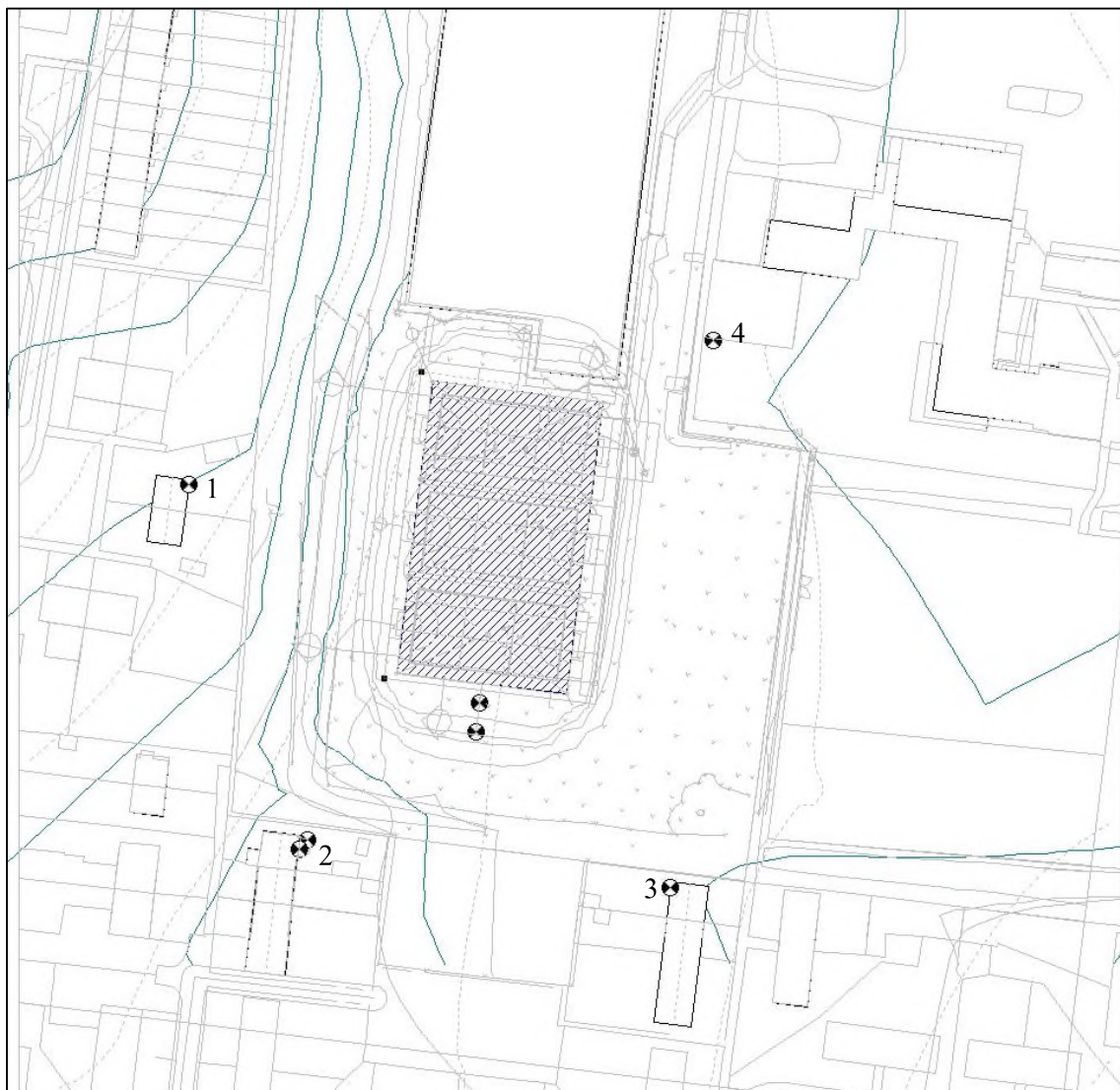


Figure A4.1 – CandaA Model Layout

There are two receivers at each receptor at differing heights to represent ground and first floor windows.

Heights of first and ground floor receivers above local ground level have been taken from images of the buildings using the measurement tool in Nuance power pdf viewer and observations on site due to ground floor being elevated above localised ground level in most cases.

Map grid references and heights applied in the Cadna-A model above ground are shown for each receiver in Table A4.1.

Table A4.1 – CandaA Model Receiver Heights						
Receptor	Floor	Receiver ID	Height above local ground (m)	X grid coord (m)	Y grid coord (m)	Z (m)
1 Brahan Terrace	ground	1G	1.6	309994.9	724320.5	41.6
1 Brahan Terrace	first	1F	4.2	309994.9	724320.5	44.2
91 Kingswell*	ground	2G	2.5	310019.1	724248	37.9
91 Kingswell	first	2F	5.0	310017.4	724246.1	40.4
45 Kingswell	ground	3G	2.0	310093.1	724238.3	34.2
45 Kingswell	first	3F	5.5	310093.1	724238.3	37.7
School	ground	4G	2.3	310101.8	724350	34.7
School	first	4F	5.0	310101.8	724350	37.4

*closer to pitch than 1st floor as this represents the conservatory at ground floor

Figure A4.2 shows the model layout for the calibration of the pitch noise including the receivers at 4m and 10m from the edge of the pitch. G=0.5 in the calibration model only, to correspond to measurement conditions. Calibrated noise levels for the single pitch are shown in Table A4.2. These are applied to all pitches in the model.

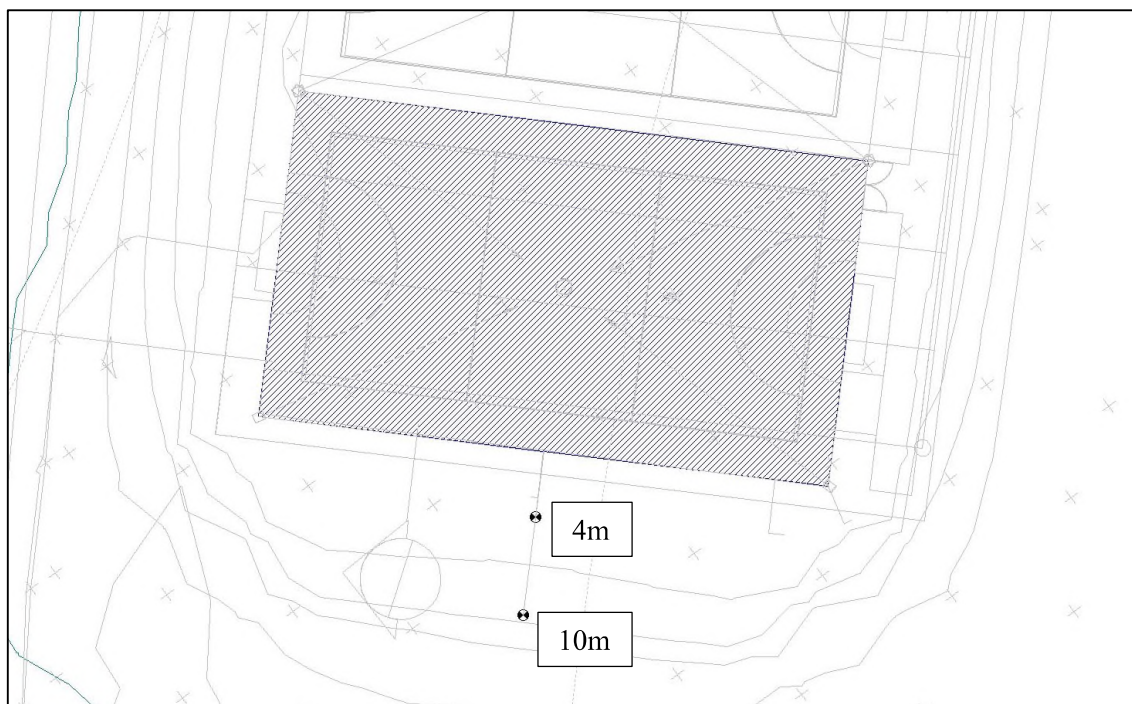
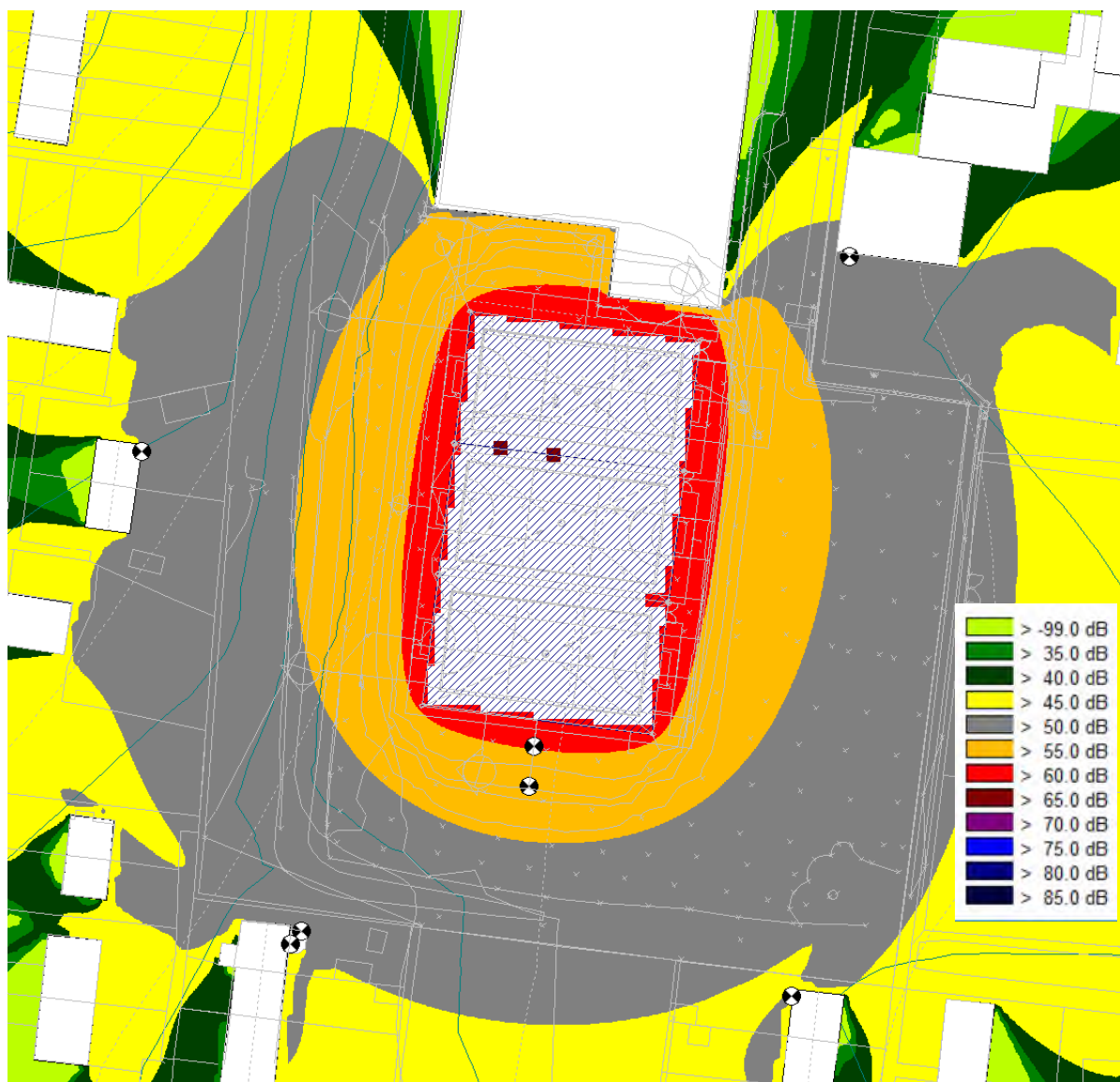


Figure A4.2 – Calibration of pitch noise SWL

Table A4.2 – Calibration Noise Levels (1 pitch)			
Calibration Receivers	Target Noise Level $L_{Aeq,1hr}$ (dB)	Predicted Noise Level $L_{Aeq,1hr}$ (dB)	Height above ground (m)
Cal1_4m	60.0	61.2	1.5
Cal2_10m	58.0	57.8	1.5

APPENDIX 5 – PREDICTED NOISE LEVELS WITH NO MITIGATION

The image below shows the 4m above ground height noise contours ($L_{Aeq,1hr}$ in dB) when all 3 pitches are in use with no mitigation.



APPENDIX 6 – TAN QUANTITATIVE ASSESSMENT TABLES (NO MITIGATION)

Table A6.1: Daytime Impact Assessment (3 Pitches Active)						
Receiver	Existing Noise Level L _{Aeq,1hr} (dB)	Predicted External Noise Level, L _{Aeq,1hr} (dB)	New Ambient Noise Level, L _{Aeq,1hr} * (dB)	Change in Noise Level (dB)	Magnitude of Impact	Level of Significance
1 (ground)	49.6	50.3	53.0	3.4	Moderate	Moderate/Large
1 (first)	49.6	50.7	53.2	3.6	Moderate	Moderate/Large
2 (ground)	50.3	50.3	53.3	3.0	Moderate	Moderate/Large
2 (first)	50.3	49.9	53.1	2.8	Minor	Slight/Moderate
3 (ground)	53.2	49.2	54.7	1.5	Minor	Slight/Moderate
3 (first)	53.2	49.3	54.7	1.5	Minor	Slight/Moderate
4 (ground)	48.5	51.6	53.3	4.8	Moderate	Moderate/Large
4 (first)	48.5	51.6	53.3	4.8	Moderate	Moderate/Large

*Existing plus new predicted noise

Table A6.2: Evening Impact Assessment (3 Pitches Active)						
Receiver	Existing Noise Level L _{Aeq,1hr} (dB)	Predicted External Noise Level, L _{Aeq,1hr} (dB)	New Ambient Noise Level, L _{Aeq,1hr} * (dB)	Change in Noise Level (dB)	Magnitude of Impact	Level of Significance
1 (ground)	45.2	50.3	51.5	6.3	Major	Large/ Very Large
1 (first)	45.2	50.7	51.8	6.6	Major	Large/ Very Large
2 (ground)	44.7	50.3	51.4	6.7	Major	Large/ Very Large
2 (first)	44.7	49.9	51.0	6.3	Major	Large/ Very Large
3 (ground)	45.3	49.2	50.7	5.4	Major	Large/ Very Large
3 (first)	45.3	49.3	50.8	5.5	Major	Large/ Very Large

*Existing plus new predicted noise

Table A6.3: Daytime Impact Assessment (2 Pitches Active)						
Receiver	Existing Noise Level L _{Aeq,1hr} (dB)	Predicted External Noise Level, L _{Aeq,1hr} (dB)	New Ambient Noise Level, L _{Aeq,1hr} * (dB)	Change in Noise Level (dB)	Magnitude of Impact	Level of Significance
1 (ground)	49.6	48.5	52.1	2.5	Minor	Slight/Moderate
1 (first)	49.6	48.7	52.2	2.6	Minor	Slight/Moderate
2 (ground)	50.3	49.2	52.8	2.5	Minor	Slight/Moderate
2 (first)	50.3	48.9	52.7	2.4	Minor	Slight/Moderate
3 (ground)	53.2	48.2	54.4	1.2	Minor	Slight/Moderate
3 (first)	53.2	48.2	54.4	1.2	Minor	Slight/Moderate
4 (ground)	48.5	48.6	51.6	3.1	Moderate	Moderate/Large
4 (first)	48.5	48.6	51.6	3.1	Moderate	Moderate/Large

*Existing plus new predicted noise

Table A6.4: Evening Impact Assessment (2 Pitches Active)						
Receiver	Existing Noise Level L _{Aeq,1hr} (dB)	Predicted External Noise Level, L _{Aeq,1hr} (dB)	New Ambient Noise Level, L _{Aeq,1hr} * (dB)	Change in Noise Level (dB)	Magnitude of Impact	Level of Significance
1 (ground)	45.2	48.5	50.2	5.0	Major	Large/ Very Large
1 (first)	45.2	48.7	50.3	5.1	Major	Large/ Very Large
2 (ground)	44.7	49.2	50.5	5.8	Major	Large/ Very Large
2 (first)	44.7	48.9	50.3	5.6	Major	Large/ Very Large
3 (ground)	45.3	48.2	50.0	4.7	Moderate	Moderate/Large
3 (first)	45.3	48.2	50.0	4.7	Moderate	Moderate/Large

*Existing plus new predicted noise

Table A6.5: Daytime Impact Assessment (1 Pitch Active)						
Receiver	Existing Noise Level L _{Aeq,1hr} (dB)	Predicted External Noise Level, L _{Aeq,1hr} (dB)	New Ambient Noise Level, L _{Aeq,1hr} * (dB)	Change in Noise Level (dB)	Magnitude of Impact	Level of Significance
1 (ground)	49.6	45.1	50.9	1.3	Minor	Slight/Moderate
1 (first)	49.6	45.3	51.0	1.4	Minor	Slight/Moderate
2 (ground)	50.3	47.2	52.0	1.7	Minor	Slight/Moderate
2 (first)	50.3	46.8	51.9	1.6	Minor	Slight/Moderate
3 (ground)	53.2	46.0	54.0	0.8	Negligible	Slight
3 (first)	53.2	46.1	54.0	0.8	Negligible	Slight
4 (ground)	48.5	44.2	49.9	1.4	Minor	Slight/Moderate
4 (first)	48.5	44.2	49.9	1.4	Minor	Slight/Moderate

*Existing plus new predicted noise

Table A6.6: Evening Impact Assessment (1 Pitch Active)						
Receiver	Existing Noise Level L _{Aeq,1hr} (dB)	Predicted External Noise Level, L _{Aeq,1hr} (dB)	New Ambient Noise Level, L _{Aeq,1hr} * (dB)	Change in Noise Level (dB)	Magnitude of Impact	Level of Significance
1 (ground)	45.2	45.1	48.2	3.0	Moderate	Moderate/Large
1 (first)	45.2	45.3	48.3	3.1	Moderate	Moderate/Large
2 (ground)	44.7	47.2	49.1	4.4	Moderate	Moderate/Large
2 (first)	44.7	46.8	48.9	4.2	Moderate	Moderate/Large
3 (ground)	45.3	46.0	48.7	3.4	Moderate	Moderate/Large
3 (first)	45.3	46.1	48.7	3.4	Moderate	Moderate/Large

*Existing plus new predicted noise

APPENDIX 7 – MITIGATION: BARRIER LOCATION & HEIGHT

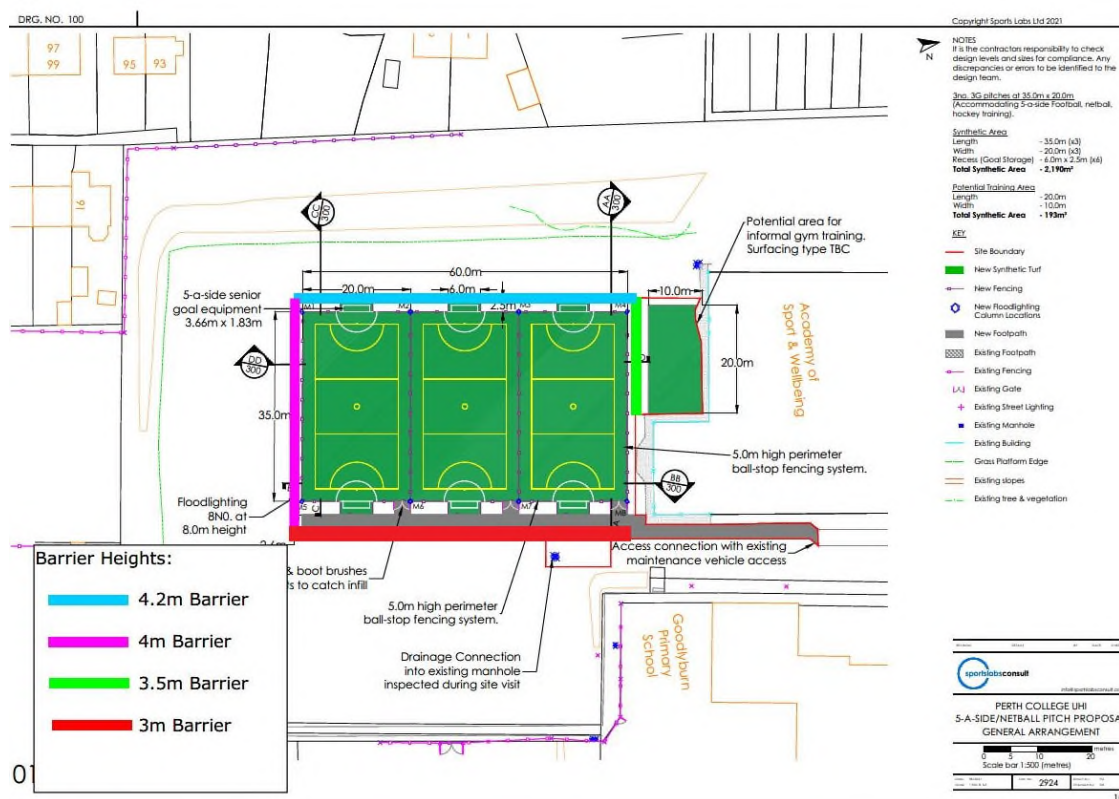
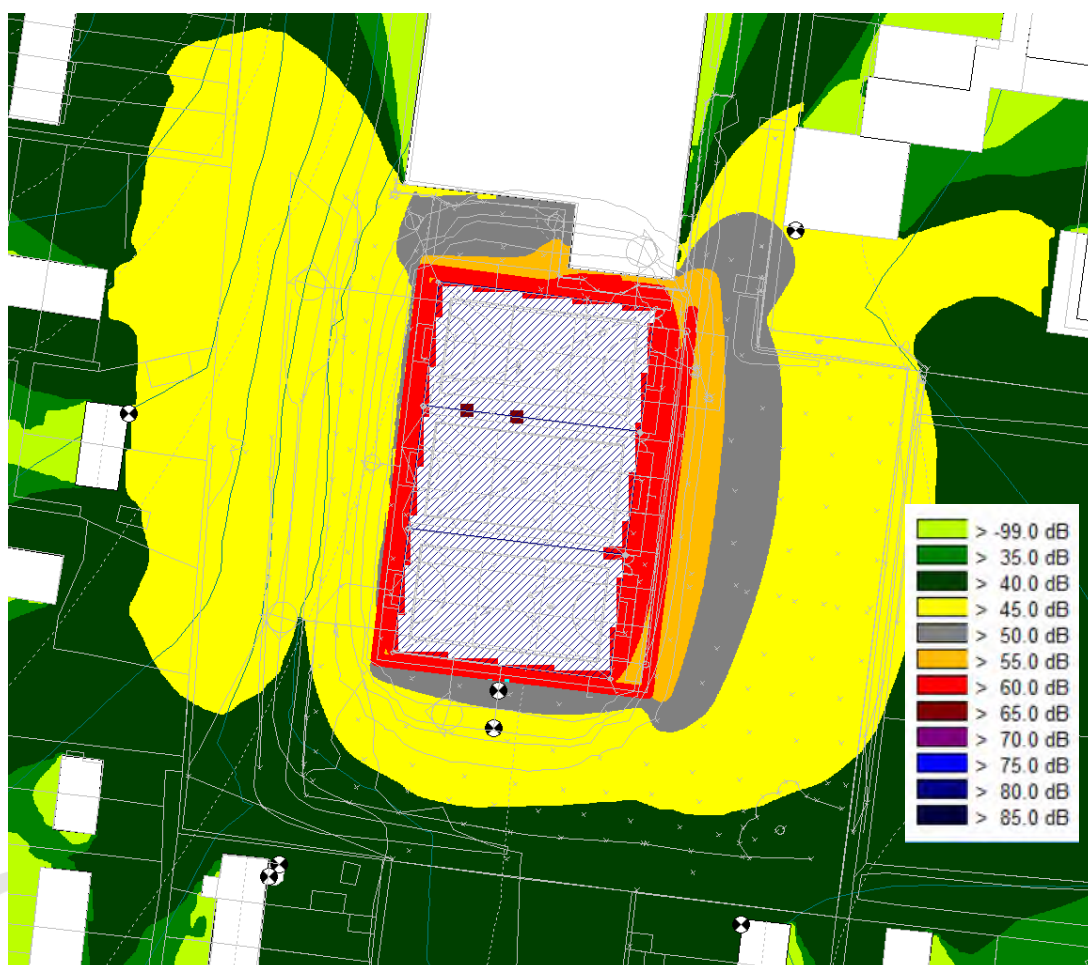


Figure A7.1 – Barrier Mitigation required to achieve “minor” level of significance with all 3 pitches operating in both the day and evening.

APPENDIX 8 – PREDICTED NOISE LEVELS WITH BARRIER MITIGATION

Table A8.1 Predicted Noise Levels for pitches with proposed Barrier Mitigation			
Receiver Position	3 pitches active $L_{Aeq,1hr}$ (dB)	2 pitches active $L_{Aeq,1hr}$ (dB)	1 pitch active $L_{Aeq,1hr}$ (dB)
1 (Ground)	43.1	41.0	37.8
1 (First)	44.9	42.7	39.6
2 (Ground)	40.9	39.2	35.7
2 (First)	43.3	41.6	37.5
3 (Ground)	39.8	37.8	34.1
3 (First)	43.2	41.4	37.0
4 (Ground)	49.2	44.4	38.7
4 (First)	50.2	46.9	42.6

The image below shows the 4m above ground height noise contours ($L_{Aeq,1hr}$ in dB) when all 3 pitches are in use with barrier mitigation.



APPENDIX 9 – TAN QUANTITATIVE ASSESSMENT WITH BARRIER MITIGATION

Table A9.1: Daytime Impact Assessment with barrier mitigation (3 Pitches Active)

Receiver	Existing Noise Level L _{Aeq,1hr} (dB)	Predicted External Noise Level, L _{Aeq,1hr} (dB)	New Ambient Noise Level, L _{Aeq,1hr} * (dB)	Change in Noise Level (dB)	Magnitude of Impact	Level of Significance
1 (ground)	49.6	43.1	50.5	0.9	Negligible	Slight
1 (first)	49.6	44.9	50.9	1.3	Minor	Slight/Moderate
2 (ground)	50.3	40.9	50.8	0.5	Negligible	Slight
2 (first)	50.3	43.3	51.1	0.8	Negligible	Slight
3 (ground)	53.2	39.8	53.4	0.2	Negligible	Slight
3 (first)	53.2	43.2	53.6	0.4	Negligible	Slight
4 (ground)	48.5	49.2	51.9	3.4	Moderate	Moderate/Large
4 (first)	48.5	50.2	52.4	3.9	Moderate	Moderate/Large

*Existing plus new predicted noise

Table A9.2: Evening Impact Assessment with barrier mitigation (3 Pitches Active)

Receiver	Existing Noise Level L _{Aeq,1hr} (dB)	Predicted External Noise Level, L _{Aeq,1hr} (dB)	New Ambient Noise Level, L _{Aeq,1hr} * (dB)	Change in Noise Level (dB)	Magnitude of Impact	Level of Significance
1 (ground)	45.2	43.1	47.3	2.1	Minor	Slight/Moderate
1 (first)	45.2	44.9	48.1	2.9	Minor	Slight/Moderate
2 (ground)	44.7	40.9	46.2	1.5	Minor	Slight/Moderate
2 (first)	44.7	43.3	47.1	2.4	Minor	Slight/Moderate
3 (ground)	45.3	39.8	46.4	1.1	Minor	Slight/Moderate
3 (first)	45.3	43.2	47.4	2.1	Minor	Slight/Moderate

*Existing plus new predicted noise

Table A9.3: Daytime Impact Assessment with barrier mitigation (2 Pitches Active)

Receiver	Existing Noise Level L _{Aeq,1hr} (dB)	Predicted External Noise Level, L _{Aeq,1hr} (dB)	New Ambient Noise Level, L _{Aeq,1hr} * (dB)	Change in Noise Level (dB)	Magnitude of Impact	Level of Significance
1 (ground)	49.6	41.0	50.2	0.6	Negligible	Slight
1 (first)	49.6	42.7	50.4	0.8	Negligible	Slight
2 (ground)	50.3	39.2	50.6	0.3	Negligible	Slight
2 (first)	50.3	41.6	50.8	0.5	Negligible	Slight
3 (ground)	53.2	37.8	53.3	0.1	Negligible	Slight
3 (first)	53.2	41.4	53.5	0.3	Negligible	Slight
4 (ground)	48.5	44.4	49.9	1.4	Minor	Slight/Moderate
4 (first)	48.5	46.9	50.8	2.3	Minor	Slight/Moderate

*Existing plus new predicted noise

Table A9.4: Evening Impact Assessment with barrier mitigation (2 Pitches Active)

Receiver	Existing Noise Level L _{Aeq,1hr} (dB)	Predicted External Noise Level, L _{Aeq,1hr} (dB)	New Ambient Noise Level, L _{Aeq,1hr} * (dB)	Change in Noise Level (dB)	Magnitude of Impact	Level of Significance
1 (ground)	45.2	41.0	46.6	1.4	Minor	Slight/Moderate
1 (first)	45.2	42.7	47.1	1.9	Minor	Slight/Moderate
2 (ground)	44.7	39.2	45.8	1.1	Minor	Slight/Moderate
2 (first)	44.7	41.6	46.4	1.7	Minor	Slight/Moderate
3 (ground)	45.3	37.8	46.0	0.7	Negligible	Slight
3 (first)	45.3	41.4	46.8	1.5	Minor	Slight/Moderate

*Existing plus new predicted noise

Table A9.5: Daytime Impact Assessment with barrier mitigation (1 Pitch Active)

Receiver	Existing Noise Level L _{Aeq,1hr} (dB)	Predicted External Noise Level, L _{Aeq,1hr} (dB)	New Ambient Noise Level, L _{Aeq,1hr} * (dB)	Change in Noise Level (dB)	Magnitude of Impact	Level of Significance
1 (ground)	49.6	37.8	49.9	0.3	Negligible	Slight
1 (first)	49.6	39.6	50.0	0.4	Negligible	Slight
2 (ground)	50.3	35.7	50.4	0.1	Negligible	Slight
2 (first)	50.3	37.5	50.5	0.2	Negligible	Slight
3 (ground)	53.2	34.1	53.3	0.1	Negligible	Slight
3 (first)	53.2	37.0	53.3	0.1	Negligible	Slight
4 (ground)	48.5	38.7	48.9	0.4	Negligible	Slight
4 (first)	48.5	42.6	49.5	1.0	Minor	Slight/Moderate

*Existing plus new predicted noise

Table A9.6: Evening Impact Assessment with barrier mitigation (1 Pitch Active)

Receiver	Existing Noise Level L _{Aeq,1hr} (dB)	Predicted External Noise Level, L _{Aeq,1hr} (dB)	New Ambient Noise Level, L _{Aeq,1hr} * (dB)	Change in Noise Level (dB)	Magnitude of Impact	Level of Significance
1 (ground)	45.2	37.8	45.9	0.7	Negligible	Slight
1 (first)	45.2	39.6	46.3	1.1	Minor	Slight/Moderate
2 (ground)	44.7	35.7	45.2	0.5	Negligible	Slight
2 (first)	44.7	37.5	45.5	0.8	Negligible	Slight
3 (ground)	45.3	34.1	45.6	0.3	Negligible	Slight
3 (first)	45.3	37.0	45.9	0.6	Negligible	Slight

*Existing plus new predicted noise

LRB-2022-04 - Review of Condition 5 on planning permission 21/01525/FLL - Formation of all weather sports pitches and access road, erection of fencing, installation of floodlighting and associated works, land 100 metres south west of Goodlyburn Primary School, Crieff Road, Perth

REPRESENTATIONS

Friday, 08 October 2021



Local Planner
Planning and Development
Perth and Kinross Council
Perth
PH1 5GD

Development Operations
The Bridge
Buchanan Gate Business Park
Cumbernauld Road
Stepps
Glasgow
G33 6FB

Development Operations
Freephone Number - 0800 3890379
E-Mail - DevelopmentOperations@scottishwater.co.uk
www.scottishwater.co.uk



Dear Customer,

Land SW Goodlyburn Primary School, Crieff Road, Perth, PH1 2NT
Planning Ref: 21/01525/FLL
Our Ref: DSCAS-0050210-PVR
Proposal: Formation of all weather sports pitches and access road, erection of fencing, installation of floodlighting and associated works

Please quote our reference in all future correspondence

Audit of Proposal

Scottish Water has no objection to this planning application; however, the applicant should be aware that this does not confirm that the proposed development can currently be serviced and would advise the following:

Water Capacity Assessment

Scottish Water has carried out a Capacity review and we can confirm the following:

- ▶ There is currently sufficient capacity in the Perth Water Treatment Works to service your development. However, please note that further investigations may be required to be carried out once a formal application has been submitted to us.

Waste Water Capacity Assessment

- ▶ There is currently sufficient capacity for a foul only connection in the Perth City Waste Water Treatment works to service your development. However, please note that further investigations may be required to be carried out once a formal application has been submitted to us.

Please Note

- ▶ The applicant should be aware that we are unable to reserve capacity at our water and/or waste water treatment works for their proposed development. Once a formal connection application is submitted to Scottish Water after full planning permission has been granted, we will review the availability of capacity at that time and advise the applicant accordingly.
-

Asset Impact Assessment

According to our records, the development proposals impact on existing Scottish Water assets.

The applicant must identify any potential conflicts with Scottish Water assets and contact our Asset Impact Team via [our Customer Portal](#) to apply for a diversion.

The applicant should be aware that any conflict with assets identified may be subject to restrictions on proximity of construction. Please note the disclaimer at the end of this response.

Surface Water

For reasons of sustainability and to protect our customers from potential future sewer flooding, Scottish Water will not accept any surface water connections into our combined sewer system.

There may be limited exceptional circumstances where we would allow such a connection for brownfield sites only, however this will require significant justification from the customer taking account of various factors including legal, physical, and technical challenges.

In order to avoid costs and delays where a surface water discharge to our combined sewer system is anticipated, the developer should contact Scottish Water at the earliest opportunity with strong evidence to support the intended drainage plan prior to making a connection request. We will assess this evidence in a robust manner and provide a decision that reflects the best option from environmental and customer perspectives.

General notes:

- ▶ Scottish Water asset plans can be obtained from our appointed asset plan providers:
 - ▶ Site Investigation Services (UK) Ltd
 - ▶ Tel: 0333 123 1223
 - ▶ Email: sw@sisplan.co.uk
 - ▶ www.sisplan.co.uk
- ▶ Scottish Water's current minimum level of service for water pressure is 1.0 bar or 10m head at the customer's boundary internal outlet. Any property which cannot be adequately serviced from the available pressure may require private pumping arrangements to be installed, subject to compliance with Water Byelaws. If the

developer wishes to enquire about Scottish Water's procedure for checking the water pressure in the area, then they should write to the Customer Connections department at the above address.

- ▶ If the connection to the public sewer and/or water main requires to be laid through land out-with public ownership, the developer must provide evidence of formal approval from the affected landowner(s) by way of a deed of servitude.
 - ▶ Scottish Water may only vest new water or waste water infrastructure which is to be laid through land out with public ownership where a Deed of Servitude has been obtained in our favour by the developer.
 - ▶ The developer should also be aware that Scottish Water requires land title to the area of land where a pumping station and/or SUDS proposed to vest in Scottish Water is constructed.
 - ▶ Please find information on how to submit application to Scottish Water at [our Customer Portal](#).
-

Next Steps:

▶ All Proposed Developments

All proposed developments require to submit a Pre-Development Enquiry (PDE) Form to be submitted directly to Scottish Water via [our Customer Portal](#) prior to any formal Technical Application being submitted. This will allow us to fully appraise the proposals.

Where it is confirmed through the PDE process that mitigation works are necessary to support a development, the cost of these works is to be met by the developer, which Scottish Water can contribute towards through Reasonable Cost Contribution regulations.

▶ Non Domestic/Commercial Property:

Since the introduction of the Water Services (Scotland) Act 2005 in April 2008 the water industry in Scotland has opened to market competition for non-domestic customers. All Non-domestic Household customers now require a Licensed Provider to act on their behalf for new water and waste water connections. Further details can be obtained at www.scotlandontap.gov.uk

▶ Trade Effluent Discharge from Non Dom Property:

- ▶ Certain discharges from non-domestic premises may constitute a trade effluent in terms of the Sewerage (Scotland) Act 1968. Trade effluent arises from activities including; manufacturing, production and engineering; vehicle, plant and equipment washing, waste and leachate management. It covers both large and small premises, including activities such as car washing and laundrettes. Activities not covered include hotels, caravan sites or restaurants.

- ▶ If you are in any doubt as to whether the discharge from your premises is likely to be trade effluent, please contact us on 0800 778 0778 or email TEQ@scottishwater.co.uk using the subject "Is this Trade Effluent?". Discharges that are deemed to be trade effluent need to apply separately for permission to discharge to the sewerage system. The forms and application guidance notes can be found [here](#).
- ▶ Trade effluent must never be discharged into surface water drainage systems as these are solely for draining rainfall run off.
- ▶ For food services establishments, Scottish Water recommends a suitably sized grease trap is fitted within the food preparation areas, so the development complies with Standard 3.7 a) of the Building Standards Technical Handbook and for best management and housekeeping practices to be followed which prevent food waste, fat oil and grease from being disposed into sinks and drains.
- ▶ The Waste (Scotland) Regulations which require all non-rural food businesses, producing more than 50kg of food waste per week, to segregate that waste for separate collection. The regulations also ban the use of food waste disposal units that dispose of food waste to the public sewer. Further information can be found at www.resourceefficientscotland.com

I trust the above is acceptable however if you require any further information regarding this matter please contact me on **0800 389 0379** or via the e-mail address below or at planningconsultations@scottishwater.co.uk.

Yours sincerely,

Angela Allison


Development Services Analyst

PlanningConsultations@scottishwater.co.uk

Scottish Water Disclaimer:

"It is important to note that the information on any such plan provided on Scottish Water's infrastructure, is for indicative purposes only and its accuracy cannot be relied upon. When the exact location and the nature of the infrastructure on the plan is a material requirement then you should undertake an appropriate site investigation to confirm its actual position in the ground and to determine if it is suitable for its intended purpose. By using the plan you agree that Scottish Water will not be liable for any loss, damage or costs caused by relying upon it or from carrying out any such site investigation."

Comments to the Development Quality Manager on a Planning Application

Planning Application ref.	21/01525/FLL	Comments provided by	Lucy Sumner
Service/Section	Strategy & Policy	Contact Details	Development Contributions Officer: Lucy Sumner 
Description of Proposal	Formation of all weather sports pitches and access road, erection of fencing, installation of floodlighting and associated works		
Address of site	Land 100 Metres South West Of Goodlyburn Primary School Crieff Road Perth		
Comments on the proposal	I have no comments to make on this proposal in terms of the Developer Contributions and Affordable Housing Supplementary Guidance.		
Recommended planning condition(s)			
Recommended informative(s) for applicant			
Date comments returned	15 October 2021		

Comments to the Development Quality Manager on a Planning Application

Planning Application ref.	21/01525/FLL	Comments provided by	Dean Salman Development Engineer
Service/Section	Transport Planning	Contact Details	
Description of Proposal	Formation of all weather sports pitches and access road, erection of fencing, installation of floodlighting and associated works		
Address of site	Land 100 Metres South West Of Goodlyburn Primary School Crieff Road Perth		
Comments on the proposal	Insofar as the Roads matters are concerned, I have no objections to this proposal on the following condition.		
Recommended planning condition(s)	<p>Prior to the commencement of the development hereby approved, the developer shall submit for the further written agreement of the Council as Planning Authority, in consultation with the Roads Authority (Structures), a Construction Traffic Management Scheme (TMS) which shall include the following:</p> <ul style="list-style-type: none"> (a) restriction of construction traffic to approved routes and the measures to be put in place to avoid other routes being used; (b) timing of construction traffic to minimise impact on local communities particularly at school start and finishing times, on days when refuse collection is undertaken, on Sundays and during local events; (c) a code of conduct for HGV drivers to allow for queuing traffic to pass; (d) arrangements for liaison with the Roads Authority regarding winter maintenance; (e) emergency arrangements detailing communication and contingency arrangements in the event of vehicle breakdown; (f) arrangements for the cleaning of wheels and chassis of vehicles to prevent material from construction sites associated with the development being deposited on the road; (g) arrangements for cleaning of roads affected by material deposited from construction sites associated with the development; (h) arrangements for signage at site accesses and crossovers and on roads to be used by construction traffic in order to provide safe access for pedestrians, cyclists and equestrians; (i) details of information signs to inform other road users of construction traffic; (j) arrangements to ensure that access for emergency service vehicles are not impeded; (k) co-ordination with other significant developments known to use roads affected by construction traffic; (l) traffic arrangements in the immediate vicinity of temporary construction compounds; 		

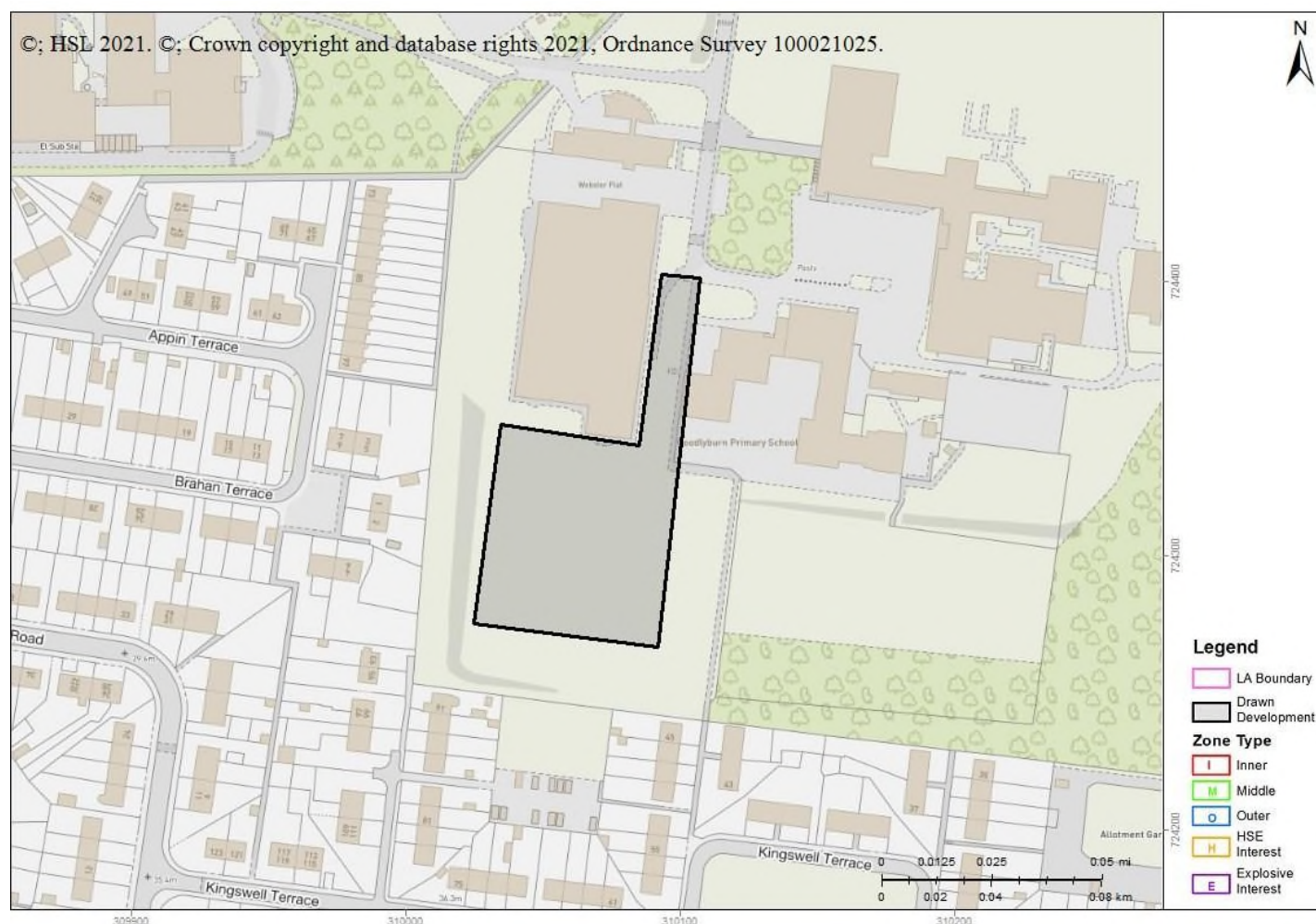
	<p>(m) the provision and installation of traffic counters at the applicant's expense at locations to be agreed prior to the commencement of construction;</p> <p>(n) monitoring, reporting and implementation arrangements;</p> <p>(o) arrangements for dealing with non-compliance; and</p> <p>(p) details of HGV movements to and from the site.</p> <p>The TMS as approved shall be strictly adhered to during the entire site construction programme</p>
Recommended informative(s) for applicant	
Date comments returned	25 October 2021

Advice : HSL-211027151411-317 Does Not Cross Any Consultation Zones

Your Ref: 21/01525/FLL

Development Name: Land 100 Metres South West Of Goodlyburn Primary School, Crieff Road, Perth.

Comments: Formation of all weather sports pitches and access road, erection of fencing, installation of floodlighting and associated works.



The proposed development site which you have identified does not currently lie within the consultation distance (CD) of a major hazard site or major accident hazard pipeline; therefore at present HSE does not need to be consulted on any developments on this site. However, should there be a delay submitting a planning application for the proposed development on this site, you may wish to approach HSE again to ensure that there have been no changes to CDs in this area in the intervening period.

This advice report has been generated using information supplied by Sean Panton at Perth and Kinross on 27 October 2021.

Memorandum

To Development Management & Building
Standards Service Manager

From Regulatory Services Manager

Your ref 21/01525/FLL

Our ref LRE

Date 27 October 2021

Tel No 01738 476462

Communities

Pullar House, 35 Kinnoull Street, Perth PH1 5G

Consultation on an Application for Planning Permission

21/01525/FLL RE: Formation of all-weather sports pitches and access road, erection of fencing, installation of floodlighting and associated works land 100 Metres Southwest of Goodlyburn Primary School Crieff Road Perth for Perth College UHI

I refer to your letter email dated 7 October 2021 in connection with the above application and have the following comments to make.

Environmental Health

Recommendation

I do not believe that sufficient information has been provided to demonstrate that this is a suitable location for the proposed development. I am currently unable to complete my appraisal of this application, and request that the application be deferred until a noise impact assessment has been submitted to, and evaluated by, this Service.

Comments

This application is for the construction of 3 no. multi-activity sport pitches for 5 aside football, netball and including hockey which shall consist of a 3G playing surface, perimeter fencing and floodlighting and an informal area for gym training.

The proposed hours of operation for the facility are Monday to Friday up to 22:00 - Saturday and Sunday up to 21:00 hours.

The site is within close proximity to residential properties to the south and southwest and west, the closest is 91 Kingswell Terrace which is approximately 40 metres away from the proposed pitches.

There are no letters of representation at the time of writing this memorandum.

Noise

There is the potential for noise nuisance at these residential properties due to the possible intensive usage of the area due to the multi-activity sport pitches, as there is the potential for all three pitches to be in use simultaneously.

The new facility shall be enclosed by a 5.0m high twin-wire fencing system and the submitted design and access statement dated August 2021 states; *"It shall be ensured that all fencing is installed correctly to mitigate against noise generated, rubber dampers and washers are included within the fencing system to reduce any noise generated by balls rebounding off the system."*

This Service has dealt with a number of complaints in relation to the use of multi use games areas (MUGA's) throughout Perth & Kinross area. Noise can arise from patrons

using the area and from balls repetitively hitting the fencing/kickboards (without rubber/turf) ;especially from hockey activities. It is also my understanding that twin bar systems are not recommended for hockey use.

I have no powers to deal with general noise caused by people attending or participating in events.

In light of the above I recommend that the applicant submits a noise impact assessment to determine the potential impact of the multi activity sport pitches on existing local residents , with particular regard to community use outside of the college use.

Lighting

The proposed floodlighting system shall consist of an 8-column system, each 8.0m in height supporting LED lighting fixtures.

The applicant has submitted a ' Perth Collage -Sports Pitch Floodlighting -Impact Study' dated 4 September 2020 which was undertaken by Halliday Lighting. The floodlighting proposals have been designed using guidance outlined in the CIBSE lighting guide LG4 and to ensure compliance with recommended light containment limitations the ILP 'Guidance notes for the reduction of obtrusive light' was consulted.

A vertical overspill calculation was carried out at the location of the closest residential properties and the maximum vertical illuminance projected dwellings was less than 0.25Lux. and the upward light output ratio was calculated at <1% which confirmed that the proposed lighting installation will comply with the recommendations of the ILP 'Guidance notes for the reduction of obtrusive light' for an environmental zone E3.

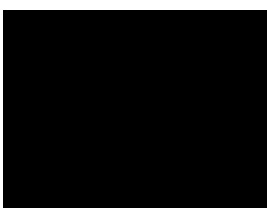
Therefore, light spill for the design system demonstrated that there is no spill directly impacting on neighbouring dwellings and amenity of these properties shall not be adversely affected.

However, I recommend that the undernoted condition be included on any given consent to protect the residential amenity of neighbouring properties.

Conditions

EH31 All external lighting shall be sufficiently screened and aligned so as to ensure that there is no direct illumination of neighbouring residential land and that light spillage beyond the boundaries of the site is minimised to a degree that it does not adversely affect the amenity of the neighbouring residential land.

- All artificial lighting to the development must conform to requirements to meet the Obtrusive Light Limitations for Exterior Lighting Installations for Environmental Zone – E3 contained within Table 2 of the Institute of Light Engineers Guidance Notes for the Reduction of Obtrusive Lighting, GN01, dated 2011.



Consultation Response

Application proposal	Formation of all weather sports pitches		
Application site	Perth College UHI		
Application reference	21/01525/FLL	Case officer	Sean Panton
Date of Response	27/10/21		

Response from **sportscotland**

Thank you for consulting us on the above.

The site includes a grassed area, some of which would be lost as a result of the proposed development of a synthetic multi-use pitch. The applicant has advised this area is currently used intermittently by Perth College UHI for in-formal multi-sport play.

Scottish Planning Policy (SPP) paragraph 226 sets out the criteria to be considered where development proposals affect outdoor sports facilities, SPP states:

'Outdoor sports facilities should be safeguarded from development except where:

- the proposed development is ancillary to the principal use of the site as an outdoor sports facility;*
- the proposed development involves only a minor part of the outdoor sports facility and would not affect its use and potential for sport and training;*
- the outdoor sports facility which would be lost would be replaced either by a new facility of comparable or greater benefit for sport in a location that is convenient for users, or by the upgrading of an existing outdoor sports facility to provide a facility of better quality on the same site or at another location that is convenient for users and maintains or improves the overall playing capacity in the area; or*
- the relevant strategy (see paragraph 224) and consultation with sportscotland show that there is a clear excess of provision to meet current and anticipated demand in the area, and that the site would be developed without detriment to the overall quality of provision.*

The proposed development of a 5-a-side synthetic floodlit multi-sport pitch would take up part of the existing natural grass area. We're advised that a sizable area would be left adjacent to this on the existing natural grass platform to be used for informal multi-sport use if desirable. The synthetic surface and floodlighting of the new facility would increase capacity for play at the site. As such, it is considered that the proposal complies with SPP criterion 3, and I confirm **sportscotland** has no objection to the application subject to the conditions below.

Requested condition(s)

The new synthetic pitch minimum dimensions 60m x 35m will be designed and constructed by a recognised (e.g. SAPCA* registered) specialist pitch contractor; details of contractor and pitches specification (including dimensions) shall be submitted for the written approval of the planning authority prior to the commencement of development. *SAPCA is The Sports and Play Construction Association (www.sapca.org.uk)

Reason: To ensure appropriate design and construction of replacement pitch

Name	Gillian Kyle		
Email	Gillian.Kyle@sportscotland.org.uk	Phone	0141 534 6557

Memorandum

To Development Management & Building
Standards Service Manager

From Regulatory Services Manager

Your ref 21/01525/FLL

Our ref LRE

Date 1 December 2021

Tel No 01738 476462

Communities

Pullar House, 35 Kinnoull Street, Perth PH1 5G

Consultation on an Application for Planning Permission

21/01525/FLLRE: RE: Formation of all-weather sports pitches and access road, erection of fencing, installation of floodlighting and associated works land 100 Metres Southwest of Goodlyburn Primary School Crieff Road Perth for Perth College UHI

I refer to email dated 18 November 2021 in connection with the above application and have the following comments to make on the Noise Impact Assessment.

Environmental Health

Recommendation

I have no objections to the application but recommend that the undernoted conditions are included on any given consent.

Comments

This application is for the construction of 3 no. multi-activity sport pitches for 5 aside football, netball and including hockey which shall consist of a 3G playing surface, perimeter fencing and floodlighting and an informal area for gym training.

The applicant has submitted a Noise Impact Assessment (NIA) report No. 7387-00-02 dated 18th November 2021 which was undertaken by New Acoustics consultants; as requested by this Service in memorandum dated 27 October 2021.

The NIA has been undertaken in accordance with the relevant standards and guidance.

Existing noise levels measurements were made at four positions representative of the surrounding noise sensitive receptors during the daytime (12:00-16:00 hours) and three positions during the evening (20:00-22:00 hours) on 4th November 2021. The report acknowledges that these measurements are likely to be lower than normal (pre-covid) and this context has been considered during the TAN qualitative assessment process.

The 2015 Sport England Design Guidance Note on AGP Noise states that the noise level for 1 hour is 58dBA @ 10m (based on a survey of nine sports sessions). This is very similar to the 60dBA @ 4m used in New Acoustics assessments based on library measurement data set out above. These noise levels were used to calibrate the pitch noise level in the noise model for the assessment at Perth College UHI.

To assess the noise level at the nearest neighbours associated with the pitches in use, an ISO 9613 Cadna-A noise model has been created (Version 2021 MR2). The model was run for one (pitch one only), two (pitches one and two only) and three pitches in use for external noise levels (1hr LAeq) at each of the noise sensitive receptors at ground and first floor levels.

With two of the pitches in use, the predicted noise level at all NSRs meets the Sport England guidance figure of 50dBA externally with no mitigation. However, the predicted noise levels exceed the 50dBA target at the school and marginally exceeds 50dBA at two of the residential receptors when all 3 pitches are in use simultaneously.

In the evening with 3 pitches active simultaneously the level of significance becomes “large/very large” at all residential NSRs. The school was not assessed in the evening period.

The report stated that mitigating measures are required to be put in place to reduce the predicted noise level to 50dBA and the overall pitch noise quantitative impact to “minor” and the level of significance to be slight moderate at the residential receptors from 3 pitches being used simultaneously during the day and evening period.

The proposed barrier mitigation is also predicted to achieve <50 dBA at ground level of the school and a minor exceedance of 0.2dB of the 50dBA target at the first floor.

The report states that there are existing mitigation measures which are already included in the design of the pitch such as the inclusion of rubber inserts between fence panels and posts to reduce ball impact noise and the restriction of use of the pitches by secure access and a booking system limited to the operating hours.

In addition, the pitches will not have rebound fences required for 5-a-side football and hockey. We understand the surface being installed is multipurpose and is not design specifically as a hockey surface which requires shorter artificial turf system (grass blades 11-14mm long) compared to artificial turf for football which has a blade height of 30mm.

Therefore, extra mitigations are proposed here in the form of acoustic barriers located out with the ball stop fence on 4 sides of the pitch. Layout and heights of the 4-sided barrier mitigation as laid out in Appendix 7 of the report.

The report states that the acoustic barrier must be of solid construction with no gaps between the fence panels, posts or at the junction with ground, and a surface density of at least 10kg/m² maintained over the lifetime of the construction. Fence at install to be no less than 25 kg/m².

This service has no powers to deal with general noise caused by people attending or participating in events or any anti-social behaviour therefore, I recommend a condition for a noise management plan which should detail how noise from the use of the pitches and patron, spectators will to be mitigated/controlled and should also include complaints procedures and contacts.

Conditions

- Acoustic barriers shall be installed in line with the recommendations in the Noise Impact Assessment Report No. 7387-00-02 dated 18th November 2021 and in accordance with the layout plan in Appendix 7 of the report.
- The hours of operational use of the pitch and floodlights are to be Monday to Friday 0900 to 2200 hours, Saturday 0900 to 1800 hours and Sunday 0900 to 2100 hours
- Prior to the commencement of the development a Noise Management Plan shall be submitted for the written approval of the planning authority. The plan shall include all

sources of noise associated with the use of the multi-use games area premise, including user noise and activity noise and the measures that will be put in place to minimise and/or control noise. The plan shall be reviewed on a regular basis or, following receipt of a justified complaint or at the request of the planning authority. Once the Noise Management Plan has been approved, it shall be fully implemented for the lifetime of the development.

