

**Specification for Design & Construction of
Walking Track & Associated Lighting**

Rathnure St. Anne's GAA Club

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1 PURPOSE

This specification covers the design, supply and construction of a walking track and associated lighting at Rathnure St. Anne's GAA Club. The club is located at Rathnure Upper, Enniscorthy, Co. Wexford.

The walking track is the subject of planning permission (ref. 20170217), granted in May 2017.

2 APPLICABLE DRAWINGS

A drawing showing the route of the walking track and the location of lighting poles is contained in Annex 1 to this invitation to tender.

3 SITE LAYOUT AND GENERAL ARRANGEMENTS

Rathnure St. Anne's GAA club grounds comprises two adult pitches, the Nickey Rackard Centre (a complex consisting of dressing rooms, showers, squash court, gym and meeting room) and the Martin Codd indoor hurling arena.

Adjacent the GAA club grounds is the John Kelly Memorial Hall and an underage GAA pitch which are the property of the Diocese of Ferns. The GAA club has a lease arrangement in place with the Diocese for the use of the underage GAA pitch.

4 DESIGN SCOPE & REQUIREMENTS

4.1 Design Scope

1. The walking track shall be routed around the perimeter of the Rathnure St Anne's adult GAA pitches and the underage GAA pitch as shown in Annex 1.
2. The track shall be:
 - a. 2m wide with timber edging,
 - b. provided with lighting, and
 - c. provided with drainage.
3. The design of the walking track and any associated works shall comply with the requirements of the Safety, Health and Welfare at Work (Construction) Regulations 2013.

4.2 Design Standards

4. The lighting system shall be designed in accordance and the requirements of *IS EN 13201 Road Lighting*, 2013 edition.
5. The electrical system shall be designed in accordance with the *National Rules for Electrical Installations ET10101*, 2020 edition.

6. The electrical ducting shall be designed in accordance with Standard Specification for ESB MV / LV Networks Ducting (Minimum Standards).

4.3 Walking Track

1. The walking track shall consist of stone dust laid over a stone aggregate foundation.
2. The walking track shall be laid on a geotextile membrane.
3. The walking track shall be constructed from certified stone.
4. The walking track shall be edged with timber fitted flush to the surrounding ground level.
5. The track shall be provided with drainage at appropriate points. Particular attention shall be given to the section of track in southwest corner of the main adult playing pitches and the section of track adjacent Martin Codd Hurling Arena.
6. Excess soil shall be removed and disposed offsite by the Contractor.

4.4 Lighting System

1. The lighting shall deliver a P1 lighting class in accordance with Table 3 of *IS EN 13201-2 2015 Road lighting - Part 2: Performance Requirements*.
2. The lighting shall be provided on 6m high (above ground level) galvanised steel columns.
3. The lighting columns shall be:
 - placed at 30m intervals with the exception of curved areas, where spacing will be reduced to 27m (i.e. 10%) to ensure the lighting distribution overlaps, and
 - setback 0.5m from path and tilted up at 0 degree tilt (luminaire therefore set 0.1m from path edge).
4. The lighting column positions are shown graphically in Annex 1.
5. The lighting luminaries shall be PHILIPS BGP291 T25 DN10 LED50 NO 1xLED50-4S/740.
6. Each lighting luminaire shall be provided with a cut-out switch fitted to the column.
7. Where sections of the walking track are in conflict with overhead power lines, 1m high bollard lighting shall be provided instead of 6m high lighting columns. The lighting bollards shall be:
 - placed at intervals of 20m,
 - set back 0.5m from track, and
 - be provided with a root mounting adapter to provide secure root fixing in concrete foundation.
8. The lighting bollards shall be PHILLIPS BCB500 T25 1 xLED38/740 A.
9. The lighting electrical circuit shall be provided with an isolator which shall be of approved capacity and lockable in the open or off position.

10. The lighting system shall be fitted with a programmable astronomical timer.
11. The lighting cabling shall be drawn in ducts.
12. The electrical supply available is 230V single phase and will be supplied from the main electrical distribution panel in the Martin Codd indoor hurling arena.

4.5 Future Ducting Requirements

1. Provision shall be made for ducting for future floodlighting shown in the drawings in Annex 1.
2. The ducting for future flood lighting shall be restricted to on or beside the route of the walking track.
3. The ducting shall be provided with access junctions and ropes.
4. Use shall be made of the excavations for the walking track and walking track ducting insofar as possible.

4.6 Controls & Electrical Equipment

Rathnure St Anne's GAA club's list of preferred suppliers of electrical and control equipment is given in Table 1. Unless there are specific technical reasons for not doing so, the Contractor shall use the preferred suppliers for the equipment listed.

Table 1: List of Preferred Suppliers

Equipment	Supplier
Luminaires	Phillips
Relays, timers, MCBs	Schneider, Siemens

5 SITE CONSTRAINTS

The pitches are used during daylight hours Monday to Sunday. Works will need to be take account of activates in the pitches. Appropriate barriers shall be provided by the Contractor to prevent unauthorised access into the construction areas and to prevent unauthorised access to plant and machinery. Provision shall be made not to damage the playing surfaces during construction.

There are a number of services located underground along the proposed route of the track. Refer to Section 6 for further information.

6 HAZARDOUS SERVICES

Buried utility services are located in the vicinity of the track, goal posts and ball stops, viz electricity, LPG stormwater and sewage.

The Contractor shall take account of these services in its planning and risk assessments prior to work commencing. The following shall be incorporated into these risk assessments and planning:

- cable /service plans for the area,
- cable locating devices, and
- safe digging practices.

Overhead power lines are also located in the vicinity of the walking track route. The Contractor shall plan and manage work near electric overhead power lines so that risks from accidental contact or close proximity to the lines are adequately controlled.

Works in the vicinity of overhead and / or buried electricity cables shall be conducted in accordance with the following guidance documents.

- Safe Construction and the Electricity Network, ESB Networks (2018)
- Code of Practice for Avoiding Danger from Overhead Electricity Lines, HSA (2019)
- Avoidance of Electrical Hazards when Drilling / Digging, ESB Networks (2013)

7 WALKING TRACK ROUTE

The proposed route of the walking track is shown the drawings provided in Annex 1 to this tender. The final route shall be agreed with the Contractor prior to the commencement of works.

The Contractor shall make the following modifications to support the installation of the walking track.

1. Relocate two ball stops associated with the underage pitch so that the walking track passes behind them.
2. Relocate two sets of goal posts associated with the underage pitch.
3. Relocate four ball stops associated with the adult pitches so that the walking track passes behind them.
4. Relocate four sets of goal posts on the adult pitches.
5. Remove and dispose approx. 550m of leylandii hedging surrounding the adult playing pitches.
6. Place fresh topsoil along previous route of leylandii hedge and reseed area with grass.
7. Excavate existing LPG pipework to facilitate removal of tank and pipework by Calor Teoranta. Reinststate trench after tank and pipework has been removed.
8. Excavate trench to facilitate installation of new underground of both LPG tank and associated pipework by Calor Teoranta. The trench shall be provided in accordance with Calor Teoranta's specification. Reinststate trench after tank and pipework have been installed.

8 SCOPE OF SUPPLY

Each of the following items shall be read as meaning that the Contractor shall supply the item. Specific exclusions from the Scope of Supply are listed in Section 9.

1. Design and installation of a walking track in accordance with the design and system requirements in Section 4.3.
2. Removal and disposal of any excess soil.
3. Supply of lighting poles, lighting luminaires and in accordance with the design and system requirements in Section 4.4.
4. Supply of control panels and field instrumentation in accordance with the design and system requirements in Section 10.
5. Specification of the power and control cabling for the lighting system.
6. Specification of the underground ducting for the power and control cabling.
7. Surface treatment of equipment, piping & supports to protect against corrosion and for identification / labelling purposes.
8. Provision of all necessary scaffolding, hoisting and lifting equipment (including craneage) necessary to complete the installation and to comply with the appropriate Safety, Health & Welfare at Work Regulations.
9. Testing and commissioning in accordance with the requirements in Section 11.
10. Acceptance Testing in accordance with the requirements in Section 12.
11. Documentation in accordance with the requirements in Section 13.
12. Equipment warranties in accordance with the requirements in Section 14.
13. Preparation of a Safety & Health Plan in accordance with the Safety, Health and Welfare at Work (Construction) Regulations, 2013.
14. Execution of the role of Project Supervisor for the Design Process (PSDP) under the Safety, Health and Welfare at Work (Construction) Regulations 2013.
15. Execution of the role of Project Supervisor for the Construction Stage under the Safety, Health and Welfare at Work (Construction) Regulations 2013.

9 EXCLUSIONS FROM CONTRACTOR'S SCOPE OF SUPPLY

The following items are specifically excluded from the Contractor's scope of supply.

1. Installation of the LPG tank and associated pipework.
2. Modification of ESB pole guy wires and / or ESB poles along the route of the proposed walking track.

10 INSTALLATION

1. The Contractor shall provide for, and comply with, the relevant requirements of all current Safety, Health and Welfare at Work Regulations during the construction period.
2. The installation shall be carried out under a Safety & Health Plan prepared by the Contractor in accordance with the Safety, Health and Welfare at Work (Construction) Regulations, 2013.

3. The Contractor shall carry out installation work between the hours of 08:00 and 17:00. The work shall take place between August and October 2021, inclusive.
4. The Contractor shall adhere to the requirements of the planning permission.

11 TESTING & COMMISSIONING

1. The Contractor shall test and commission the lighting system, and all the controls and instrumentation associated with it.

12 ACCEPTANCE TESTING

1. Acceptance shall include a verification of final lux levels achieved.

13 DOCUMENTATION

1. The following documentation shall be provided by the Contractor for Approval.
 - a. Project implementation programme (schedule).
 - b. General layout drawings
 - c. Final documentation package
2. The Final Documentation Package shall include *inter alia*: operating and maintenance instructions for the system and its components; equipment data sheets; as-built drawings; inspection & test certificates.
3. The following documentation shall be provided by the Contractor for review and comment:
 - a. General layout drawings
 - b. Wiring specification and wiring diagrams
4. All documentation, excluding the Final Documentation Package, shall be provided in electronic format and one hard copy.
5. One hard copy set of the Final Documentation Package shall be submitted for approval.

14 EQUIPMENT WARRANTIES

1. The following equipment warranties shall be provided by the Contractor:

Item	Warranty Period
Basic warranty on equipment and systems	24 months
Surface coating systems (painting, galvanising)	5 years

- KEY**
- Site boundary
 - Gas line
 - ESB underground cable
 - ESB overhead cable
 - Surface water drainage route
 - Foul water drainage route
 - Proposed walking track
 - 1m high lighting bollard
 - 6m high lighting pole
 - Proposed 22m high floodlight



TENDER
NOTE: Drawing for Design Intent purposes

Date	By	Revision



Rathnure St. Annes GAA Architectural Design

001

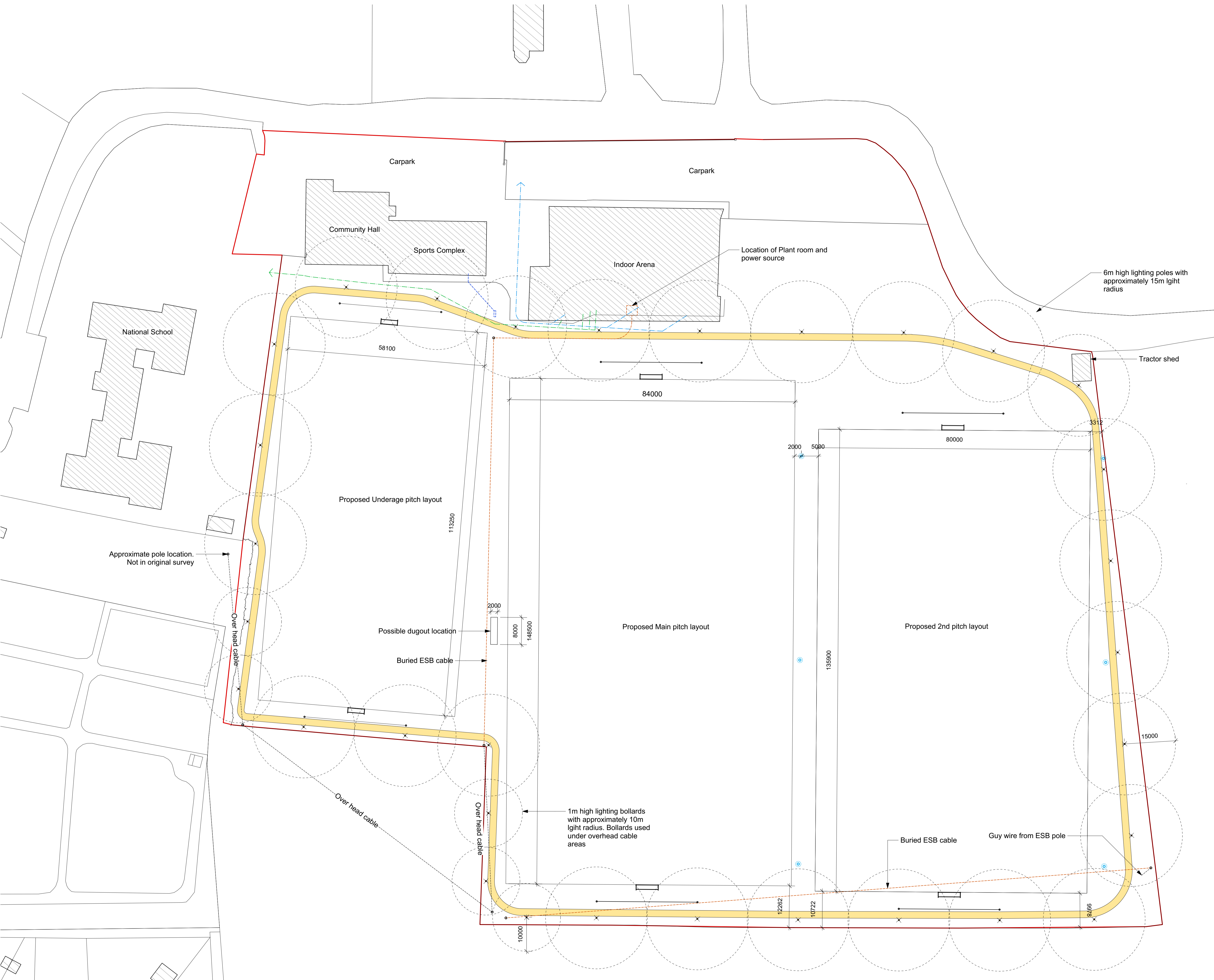
WALKING TRACK & FLOOD LIGHTS
RATHNURE ST ANNES GAA CLUB

RATHNURE UPPER,
ENNISCORTHY, CO. WEXFORD

SITE LAYOUT PLAN EXISTING

Job No.	Drawn	Date	Scale
2110	-	21.06.21	1:1000 @ A3 1:500 @ A1

NOTES
ALL SETTING OUT MUST BE CHECKED ON SITE
ALL LEVELS MUST BE CHECKED ON SITE
ALL DIMENSIONS MUST BE CHECKED ON SITE
DO NOT SCALE FROM THIS DRAWING
THIS DRAWING MUST NOT BE USED ON SITE UNLESS ISSUED FOR CONSTRUCTION



KEY

- Site boundary
- Gas line
- ESB underground cable
- ESB overhead cable
- Surface water drainage route
- Foul water drainage route
- Proposed walking track
-
-
-

6m high lighting poles with approximately 15m light radius

Tractor shed

TENDER
NOTE: Drawing for Design Intent purposes

Date	No.	Revision



Rathnure St. Annes GAA
Architectural Design

101

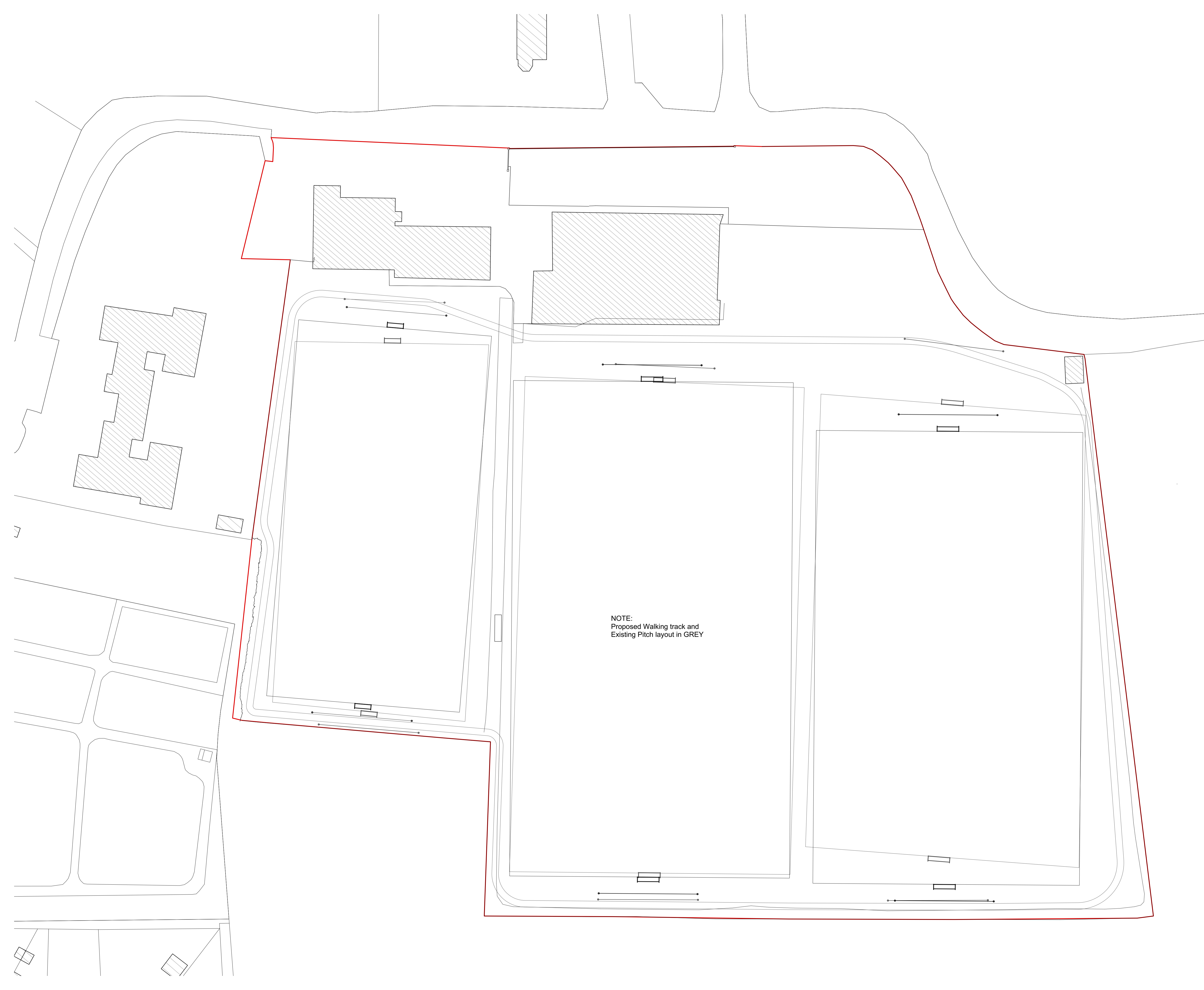
WALKING TRACK & FLOOD LIGHTS
RATHNURE ST ANNES GAA CLUB

RATHNURE UPPER,
ENNISCORTHY, CO. WEXFORD

**SITE LAYOUT PLAN
PROPOSED**

Job No. 2110	Drawn -	Date 21.06.21	Scale 1:1000 @ A3 1:500 @ A1
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NOTES
 ALL SETTING OUT MUST BE CHECKED ON SITE
 ALL LEVELS MUST BE CHECKED ON SITE
 ALL DIMENSIONS MUST BE CHECKED ON SITE
 DO NOT SCALE FROM THIS DRAWING
 THIS DRAWING MUST NOT BE USED ON SITE UNLESS ISSUED FOR CONSTRUCTION



NOTE:
Proposed Walking track and
Existing Pitch layout in GREY

TENDER

NOTE: Drawing for Design Intent purposes

Date	By	Revision



Rathnure St. Annes GAA Architectural Design

102 -

Project: WALKING TRACK & FLOOD LIGHTS
RATHNURE ST ANNES GAA CLUB
Location: RATHNURE UPPER,
ENNISCORTHY, CO. WEXFORD
Drawing: PITCH COMPARISON PLAN
PROPOSED

Job No.	Drawn	Date	Scale
2110	-	21.06.21	1:1000 @ A3 1:500 @ A1

NOTES
ALL SETTING OUT MUST BE CHECKED ON SITE
ALL LEVELS MUST BE CHECKED ON SITE
ALL DIMENSIONS MUST BE CHECKED ON SITE
DO NOT SCALE FROM THIS DRAWING
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