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CONTAE AN CHLÁIR | COUNTY COUNCIL

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**Shannon Airport Authority DAC
C/o Paul Hennesy
Safety Compliance & Environmental Manager
Shannon Airport, Shannon
Co. Clare
V14 EE06**

1st May 2024

Section 5 referral Reference R24-36 – Shannon Airport Authority DAC

Is the construction of a new Instrument Landing System (ILS), including antennas, masts, shelters and access road at Shannon Airport development and if so, is it exempted development?

A Chara,

I refer to your application received on 5th April 2024 under Section 5 of the Planning & Development Act 2000 (as amended) in relation to the above.

The Planning Authority has considered the matter and I attach herewith the Council's findings in this matter.

Where a declaration is issued by the Planning Authority, any person issued with a declaration, may on payment to an Bord Pleanála of the required fee, refer a declaration for review by An Bord Pleanála within 4 weeks of the date of the issuing of the declaration. Details on making such appeal are available on the Board's website at www.pleanala.ie

Mise, le meas

**Anne O'Gorman
Staff Officer
Planning Department
Economic Development Directorate**

**An Roinn Pleanála
An Stiúirthóireacht Forbairt Gheilleagrach**
Áras Contae an Chláir, Bóthar Nua, Inis, Co. an Chláir, V95 DXP2

**Planning Department
Economic Development Directorate**
Áras Contae an Chláir, New Road, Ennis, Co. Clare, V95 DXP2



CLARE COUNTY COUNCIL

SECTION 5 OF THE PLANNING AND DEVELOPMENT ACT 2000 AS AMENDED

DECLARATION ON DEVELOPMENT AND/OR EXEMPTED DEVELOPMENT

Chief Executive's Order No:

83510

Reference Number:

R24-36

Date Referral Received:

5th April 2024

Name of Applicant:

Shannon Airport Authority DAC

Location of works in question:

Shannon Airport, Shannon, Co. Clare

Section 5 referral Reference R24-36 – Shannon Airport Authority DAC

Is the construction of a new Instrument Landing System (ILS), including antennas, masts, shelters and access road at Shannon Airport development and if so, is it exempted development?

AND WHEREAS Clare County Council, in considering this referral, had regard in particular to –

- (a) Sections 2, 3, and 4 of the Planning and Development Act, 2000, as amended,
- (b) The works as indicated in submitted documents from the referrer.
- (c) The forms of exempted development as set out in Schedule 1 and Schedule 2, of the Planning and Development Regulations 2001 (as amended) and in particular the exempted development set out under Schedule 2, Part 1, Class 32 of the Planning, and Development Regulations 2001 (as amended).
- (d) The restrictions on Exempted Development as set out in Article 9 of the Planning and Development Regulations 2001 (as amended).

AND WHEREAS Clare County Council has concluded:

- (a) The proposed works consist of Apparatus necessary for the safe navigation of aircraft within an Airport and are exempted development in accordance with Schedule 2, Part 1, Class 32 of the Planning, and Development Regulations 2001 (as amended).

ORDER: Whereas by Chief Executive's Order No. HR 152 dated 9th April 2021, Pat Dowling, Chief Executive for Clare County Council, did, pursuant to the powers conferred on him by Section 154 of the Local Government Act 2001, delegate to Gareth Ruane, Senior Executive Planner, the powers, functions and duties as set out herein,

NOW THEREFORE pursuant to the delegation of the said powers, functions and duties and under Section 5(2)(a) of the Planning & Development Act 2000 (as amended) and having considered the various submissions and reports in connection with the referral described above, I, Gareth Ruane, Senior Executive Planner,

hereby declare that the construction of a new Instrument Landing System (ILS), including antennas, masts, shelters and an access road at Shannon Airport, Shannon, Co. Clare is considered development which is exempted development.

Signed:



GARETH RUANE
SENIOR EXECUTIVE PLANNER 

Date:

1st May 2024

**DECLARATION ISSUED UNDER SECTION 5 OF THE
PLANNING & DEVELOPMENT ACT 2000 (AS AMENDED)**

Reference No.: R24-36



Comhairle Contae an Chláir
Clare County Council

Section 5 referral Reference R24-36

Is the construction of a new Instrument Landing System (ILS), including antennas, masts, shelters and access road at Shannon Airport development and if so, is it exempted development?

AND WHEREAS, Shannon Airport Authority DAC has requested a declaration from Clare County Council on the said question.

AND WHEREAS Clare County Council, in considering this referral, had regard in particular to –

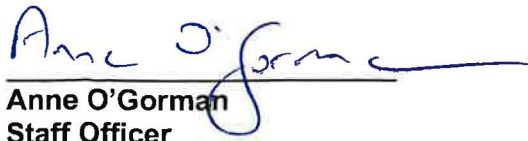
- (a) Sections 2, 3, and 4 of the Planning and Development Act, 2000, as amended,
- (b) The works as indicated in submitted documents from the referrer.
- (c) The forms of exempted development as set out in Schedule 1 and Schedule 2, of the Planning and Development Regulations 2001 (as amended) and in particular the exempted development set out under Schedule 2, Part 1, Class 32 of the Planning, and Development Regulations 2001 (as amended).
- (d) The restrictions on Exempted Development as set out in Article 9 of the Planning and Development Regulations 2001 (as amended).

And whereas Clare County Council has concluded:

- (a) The proposed works consist of Apparatus necessary for the safe navigation of aircraft within an Airport and are exempted development in accordance with Schedule 2, Part 1, Class 32 of the Planning, and Development Regulations 2001 (as amended).

THEREFORE: The Planning Authority in exercise of the powers conferred on it by Section 5 of the Planning and Development Act, 2000 (as amended), hereby decides that:

The proposed development consisting of the construction of a new Instrument Landing System (ILS), including antennas, masts, shelters and an access road at Shannon Airport, Shannon, Co. Clare **constitutes development** which is **exempted development** as defined within the Planning & Development Acts, 2000 (as amended) and associated regulations.

A handwritten signature in blue ink that reads "Anne O'Gorman". The signature is written in a cursive style and is positioned above a horizontal line.

Anne O'Gorman
Staff Officer
Planning Department
Economic Development Directorate

1st May 2024

CLARE COUNTY COUNCIL
SECTION 5 DECLARATION OF EXEMPTION APPLICATION
PLANNERS REPORT

APPLICANT(S):	Shannon Airport DAC
REFERENCE:	R24- 36
LOCATION:	Shannon Airport, Shannon County Clare.
Referral Question;	Is the construction of new instrument landing system (ILS) including antenna's masts, shelters, and access road at Shannon Airport development and if so, is it exempted development.
DUE DATE:	02 May 2024

Site Location :

The subject lands are within the grounds of Shannon Airport and are located at several different locations within the grounds of the airport, as follows;

- Area A- At the western end of the runway – proposed works here include alignment of ducting, upgrade of a shelter, localiser slabs, demolition of existing road/slab.
- Area B - At the western end of the Runway, adjacent to Area B, , it is proposed to construct a new shelter, ducting, cables.
- Area C- This is located to the south east of the airport hangar building. Proposed new GP24 Mast, proposed new shelter, proposed ducting, mast foundation.
- Area D, To the east of the Hanger building- works proposed are ducting, transformer plinth, antennae foundations, mains pillar.
- Area E- to the north of the Air Traffic Control Tower- proposed Data Ducts, proposed data ducting.
- Area F- North east of the runway. Proposed 1m by 1m transformer slab, proposed data ducts, proposed power ducts,

Referral Question;

This referral is made by Shannon Airport DAC

Is the construction of new instrument landing system (ILS) including antenna's masts, shelters, and access road at Shannon Airport development? And if so, is it exempted development?

In the additional information as submitted, Shannon Airport provides the following details:

Shannon Airport Instrument Landing system (ILS) and cabling project comprises the following;

- Replacement of ILS and associated cabling on the airfield at Shannon Airport.
- Installation of new ducts to all sites on the airfield back to the Shannon Tower (Air Traffic Control) and Surveillance radar element (SRE).
- Power ducts from Surveillance Radar element (SRE) to navigational aid sites on the airfield.

Images of similar such installations as have been put in place at Cork Airport have been submitted to provide guidance as to what the proposed works will look like.

Floor plans of an ISL Shelters as has been constructed at Cork Airport have been submitted.

A copy of the Aerodromes Certificate as has been issued to Shannon Airport by the IAA has been submitted.



Figure 1; Aerial view of Airport

Recent Planning History

- **22-317**

Shannon Airport DAC

to RETAIN a 99m² single storey extension to the airport fire station fire tender bays. PERMISSION for development consists of the further construction of a 128m² single storey extension to the airport fire tender bays

Permission was granted subject to conditions.

- **19-845**

Tetra Ireland communications limited

o RETAIN development consisting of: the RETENTION of 3no. 3.1m high radio aerials attached on existing support poles on the roof top (these extend to a total height of 22.7m AGL) for use by the Emergency Services (Garda, Ambulance, Fire Brigade) together with 1no. GPS timing antenna and associated equipment, for the National Digital Radio Service permission was granted with conditions.

- **15-450**

Shannon Airport Authority

or the refurbishment and localised reconfiguration of the existing Arrivals/Immigration Hall, Transit Lounge and Block A, Departure Gates areas within the Shannon Airport Terminal Building. All works are to take place 'Airside' (past security checks) and comprise of the following : 1) Arrivals/Immigration Hall: The relocation of the existing 'European Arrivals Door', localised replacement of the existing cladding and curtain walling facade at ground and first floor levels and associated reconfiguration and refurbishment of the internal office and arrivals, immigration and baggage hall areas; 2) Transit Lounge: The reconfiguration and refurbishment of the existing internal public areas resulting in the generation of 46m2 of new airside retail space; 3) Block 'A' Departure gates 1-5: The localised replacement of the existing cladding and curtain walling facade at ground and first floor levels as well as the refurbishment of the internal public waiting and toilet areas, including all ancillary site and service works

Permission was granted with conditions.

- **18-514**

Shannon Airport Authority

for alterations and refurbishment works which were carried out to the New Terminal Building.

Permission was granted with conditions.

- **17-910**

For proposed alterations and refurbishment works to the New Terminal Building at Shannon Airport. The development, within a Strategic Development Zone, will consist of upgrade works to the existing arrivals Hall at Shannon Airport including alterations to the existing southern and eastern elevations and provision of additional floor area of 42.5m2 to facilitate new Café and 16m2 for ancillary accommodation

Permission was granted with conditions.

- **20-886**

Shannon Airport Authority DAC

the development consists of the erection of a 68m linear, glazed, and covered passenger walkway from departure gates area 1-5 to aircraft parking stand 26B

Permission was granted with conditions.

- **22-96**

Shannon Commercial Properties

for development at Rineanna South, Shannon Airport, Co Clare. The development consists of the construction of a single storey high-bay Air Cargo Hub and logistics/distribution facility (2705m²) with ancillary single storey office area (335 m²). The works include a new site access and the provision of 42 no carparking spaces which include accessible spaces, secure bicycle parking spaces, louvred plant/refuse store, photovoltaic array, building signage and a single storey substation. The construction of new hard surfaced ancillary delivery/service yard with vehicular and HGV parking all ancillary landscaping and associated site works and services including the decommission of adjacent septic tank and installation of a new pumping station to facilitate connection to existing airport infrastructure. The planning Application is accompanied by a Natura Impact Statement

Permission was granted with conditions.

- **22-155**

Shannon Airport Authority DAC

for an Electric Vehicle (EV) charging hub. The development will consist of EV charging facilities for public and staff use, an ESB Substation, a pedestrian crossing, signage, and all associated site works

Permission was granted with conditions.

- **23-60191**

University of Galway

for development at both the Shannon College of Hotel Management Trust Building and the Shannon College of Hotel Management Food & Beverage buildings, located at Shannon Airport, Rineanna South, Shannon, Co. Clare, which will consist of the following: 1. Removal of all current signage on the exterior of both buildings. 2. Erection of 1 no. signage (5.89m x 2.745m) on the southeast elevation of the Shannon College of Hotel Management Food and Beverage Building. 3. Erection of 1 no. signage (14.505m x 1.86m) on the northeast elevation of the Shannon College of Hotel Management Trust Building. 4. Erection of 1 no signage (5.925m x 2.87m) on the southeast elevation of the Shannon College of Hotel Management Trust Building.

Permission was granted with conditions.

Background to Referral

This Referral under Section 5(3)(a) of the Planning and Development Act 2000 (as amended) has been made Shannon Airport Authority DAC.

The applicant is seeking a Section 5 Declaration to determine if the following constitute works are if so, are these works exempted development or not.

“Is the construction of new instrument landing system (ILS) including antenna’s masts, shelters, and access road at Shannon Airport development? And if so, is it exempted development?”

Statutory Provisions Considered

(1) Planning and Development Act, 2000 (as amended)

To assess this proposal, regard must be had to the *Planning and Development Act 2000, as amended*.

S.3.(1) In this Act, "development" means, except where the context otherwise requires, **the carrying out of any works on, in, over or under land** or the making of any material change in the use of any structures or other land.

'Works' are defined in Section 2 of the *Planning and Development Act 2000, as amended* as follows:

"works" includes any act or operation of construction, excavation, demolition, extension, alteration, repair, or renewal and, in relation to a protected structure or proposed protected structure, includes any act or operation involving the application or removal of plaster, paint, wallpaper, tiles or other material to or from the surfaces of the interior or exterior of a structure.

Having regard to the nature of the proposed works, this is 'Development' and to be 'Works' as defined by the Planning and Development Act 2000 (as amended).

(2) Planning & Development Regulations, 2001, as amended

(1) Class of Exempted development:

The following class of exempted development has been considered: Schedule 2, Part 1, Class 32 of the Planning, and Development Regulations 2001 (as amended) provides for the following exempted development;

Exempted development	Conditions and Limitations
CLASS 32 The carrying out by any person to whom an aerodrome licence within the meaning of the Irish Aviation Authority (Aerodromes and Visual Ground Aids)	

<p>Order, 1998 (No. 487 of 1998) has been granted, of development consisting of—</p> <p>(a) the construction or erection of an extension of an airport operational building within an airport,</p> <p>(b) the construction, extension, alteration or removal of aprons, taxiways or airside roads used for the movement of aircraft and the distribution of vehicles and equipment on the airside, within an airport,</p> <p>(c) the construction, erection or alteration of visual navigation aids on the ground including taxiing guidance, signage, inset and elevated airfield lighting or apparatus necessary for the safe navigation of aircraft, within an airport,</p> <p>(d) the construction, erection or alteration of security fencing and gates, security cameras and other measures connected with the security of airport infrastructure, within an airport, or</p> <p>(e) the erection or alteration of directional locational or warning</p>	<ol style="list-style-type: none"> 1. Where the building has not been extended previously, the floor area of any such extension shall not exceed 500 square metres or 15% of the existing floor area, whichever is the lesser. 2. Where the building has been extended previously, the floor area of any such extension, taken together with the floor area of any previous extension or extensions, shall not exceed 15% of the original floor area or 500 square metres, whichever is the lesser. 3. The planning authority for the area shall be notified in writing not less than 4 weeks before such development takes place.
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signs on the ground, within an airport.	
(d) the construction, erection or alteration of temporary awnings, marquees, portable cabins or covered pedestrian or set down areas connected with the management of airport passenger movement in a State airport (within the meaning of Part 2 of the State Airports Act 2004 (No. 32 of 2004) for purposes connected with the prevention of transmission of Covid-19 (within the meaning of the Health (Preservation and Protection and other Emergency Measures in the Public Interest) Act 2020 (No. 1 of 2020)).	

(2) Restrictions on Exempted Development;

Consideration has also been given to Article 9 (1) 'Restrictions on Exemption' of the Planning regulations which state that Development to Which article 6 (Exempted development) relates shall not be exempted development for the purposes of the Act if the carrying out of such development would;

- (i) *“contravene a condition attached to a permission under the Act or be inconsistent with any use specified in a permission under the Act*
- (ii) *consist of or compromise the formation, laying out or material widening of a means of access to a public road the surfaced carriageway of which exceeds 4 metres in width,*
- (iii) *endanger public safety by reason of traffic hazard or obstruction of road users,*
- (iiia) *endanger public safety by reason of hazardous glint and/or glare for the operation of airports, aerodromes, or aircraft,*
- (iv) *except in the case of a porch to which class 7 specified in column 1 of Part 1 of Schedule 2 applies and which complies with the conditions and limitations specified in column 2 of the said Part 1 opposite the mention of that class in the said column 1, comprise the construction, erection, extension or renewal of a building on any street so as to bring forward the building, or any part of the building, beyond the front wall of the building on either side thereof or beyond a line determined as the building line in a development plan for the area or, pending the variation of a development plan or the making of a new development plan, in the draft variation of the development plan or the draft development plan,*
- (v) *consist of or comprise the carrying out under a public road of works other than a connection to a wired broadcast relay service, sewer, water main, gas main or electricity supply line or cable, or any works to which class 25, 26 or 31 (a) specified in column 1 of Part 1 of Schedule 2 applies,*
- (vii) *interfere with the character of a landscape, or a view or prospect of special amenity value or special interest, the preservation of which is an objective of a development plan for the area in which the development is proposed or, pending the variation of a development plan or the making of a new development plan, in the draft variation of the development plan or the draft development plan.*

(vii) consist of or comprise the excavation, alteration or demolition (other than peat extraction) of places, caves, sites, features or other objects of archaeological, geological, historical, scientific or ecological interest, the preservation, conservation or protection of which is an objective of a development plan or local area plan for the area in which the development is proposed or, pending the variation of a development plan or local area plan, or the making of a new development plan or local area plan, in the draft variation of the development plan or the local area plan or the draft development plan or draft local area plan,

(viiA) consist of or comprise the excavation, alteration or demolition of any archaeological monument included in the Record of Monuments and Places, pursuant to section 12(1) of the National Monuments (Amendment) Act 1994, save that this provision shall not apply to any excavation or any works, pursuant to and in accordance with a consent granted under section 14 or a licence granted under section 26 of the National Monuments Act 1930 (No. 2 of 1930) as amended,

(viiB) comprise development in relation to which a planning authority or An Bord Pleanála is the competent authority in relation to appropriate assessment and the development would require an appropriate assessment because it would be likely to have a significant effect on the integrity of a European site,

(viiC) consist of or comprise development which would be likely to have an adverse impact on an area designated as a natural heritage area by order made under section 18 of the Wildlife (Amendment) Act 2000."

(viii) consist of or comprise the extension, alteration, repair or renewal of an unauthorized structure or a structure the use of which is an unauthorized use,

(ix) consist of the demolition or such alteration of a building or other structure as would preclude or restrict the continuance of an existing use of a building or other structure where it is an objective of the planning authority to ensure that the building or other structure would remain available for such use and such objective has been specified in a development plan for the area or, pending the variation of a development plan or the making of a new development plan, in the draft variation of the development plan or the draft development plan,

(x) consist of the fencing or enclosure of any land habitually open to or used by the public during the 10 years preceding such fencing or enclosure for recreational purposes or as a means of access to any seashore, mountain, lakeshore, riverbank or other place of natural beauty or recreational utility,

(xi) obstruct any public right of way,

(xii) further to the provisions of section 82 of the Act, consist of or comprise the carrying out of works to the exterior of a structure, where the structure concerned is located within an architectural conservation area or an area specified as an architectural conservation area in a development plan for the area or, pending the variation of a development plan or the making of a new development plan, in the draft variation of the development plan or the draft development plan and the development would materially affect the character of the area.

Environmental Impact Assessment

In assessing this application I have had regard to the provisions of EU Directive 2014/52/EU (which amends EU Directive 2011/92/EU), and which has been transposed into Irish legislation by the European Union (Planning and Development) (Environmental Impact Assessment) Regulations 2018 (SI No. 296 of 2018). The subject development does not fall within the mandatory requirements for EIA as set out in Schedule 7 of the Planning and Development Regulations 2001, as amended. I therefore consider that the proposal constitutes a sub-threshold development and note the requirements of Article 103 (1)(a) and (b) of the Planning and Development Regulations 2001, as amended. As such having regard to the nature and scale of the proposed development and the nature of the receiving environment I consider that there is no real likelihood of significant effects on the environment arising from the proposed development. The need for environmental impact assessment can, therefore, be excluded at preliminary examination and a screening determination is not required.

Appropriate Assessment

Having regard to the nature and scale of the proposed development and the absence of proximity or connectivity to a European Site, no Appropriate Assessment issues arise and I do not consider that the proposed development would be likely to have a significant effect individually or in combination with other plans or projects, on a European Site. An appropriate assessment screening report and determination is attached to this report.

Assessment

Particulars of the works proposed.

The applicant is seeking a Section 5 Declaration in relation to the following to determine if the following constitute works are if so, are these works exempted development or not. The following are proposed (as stated on the application form submitted):

"Is the construction of new instrument landing system (ILS) including antenna's masts, shelters, and access road at Shannon Airport development? And if so, is it exempted development?"

In the additional information as submitted it is stated that;

Shannon Airport Instrument Landing system (ILS) and cabling project comprises the following;

- Replacement of ILS and associated cabling on the airfield at Shannon Airport.
- Installation of new ducts to all sites on the airfield back to the Shannon Tower (Air Traffic Control) and Surveillance radar element (SRE).
- Power ducts from Surveillance Radar element (SRE) to navigational aid sites on the airfield.
- Images of similar such installations as have been put in place at Cork Airport have been submitted to provide guidance as to what the proposed works will look like.
- Floor plans of an ISL Shelters as has been constructed at Cork Airport have been submitted.

- A copy of the Aerodromes Certificate as has been issued to Shannon Airport by the IAA has been submitted.

Considerations

(1) Planning and Development Act 2000 (as amended)

Having regard to the nature of the stated alterations, this is determined to be 'Development' and to be 'Works' as defined by the Planning and Development Act 2000 (as amended).

(2) Planning and Development Regulations 2001 (as amended)

Consideration has been given to Schedule 2, Part 1, Class 32 of the Planning, and Development Regulations 2001 (as amended) and in particular to the form of exempted development described as:

"Apparatus necessary for the safe navigation of aircraft within an Airport".

From the details as submitted Shannon Airport SAC has been granted an Aerodromes License by the IAA.

All of the proposed works consist of apparatus necessary for the safe navigation of aircraft within the airport.

Having Regard to the details submitted, I am satisfied that the works as proposed within the grounds of Shannon Airport and on lands on and adjacent to the runway at Shannon Airport, are works proposed to be carried out by a person to whom an aerodrome license has been granted and consist of the provision of Apparatus necessary for the safe navigation of aircraft within an Airport (Shannon Airport) and I am satisfied that the stated works are exempted development in accordance with the exempted development provisions of Schedule 2, Part 1, Class 32 of the Planning, and Development Regulations 2001 (as amended) - which provides that the provision of Apparatus necessary for the safe navigation of aircraft within an Airport is exempt from the requirement to obtain planning permission.

I have considered the restrictions on exempted development as are set out under Article 9 (1) ' Restrictions on Exemption' of the Planning regulations 2001 (as amended) and I am satisfied that none of the restrictions apply in this case.

Conclusion

Having regard to the above, I consider that the stated works benefit from exempted development status under Schedule 2, Part 1, Class 32 of the Planning, and Development Regulations 2001 (as amended) .

Recommendation

The following question has been referred to the Planning Authority:


Is the construction of new instrument landing system (ILS) including antenna's masts, shelters, and access road at Shannon Airport development? And if so, is it exempted development?

The Planning Authority in considering this referral had regard to:

- (a) Sections 2, 3, and 4 of the Planning and Development Act, 2000, as amended,
- (b) The works as indicated in submitted documents from the referrer.
- (c) The forms of exempted development as set out in Schedule 1 and Schedule 2, of the Planning and Development Regulations 2001 (as amended) and in particular the exempted development set out under Schedule 2, Part 1, Class 32 of the Planning, and Development Regulations 2001 (as amended).
- (d) The restrictions on Exempted Development as set out in Article 9 of the Planning and Development Regulations 2001 (as amended).

And whereas Clare County Council (Planning Authority) has concluded:

The proposed works consist of Apparatus necessary for the safe navigation of aircraft within an Airport and are exempted development in accordance with Schedule 2, Part 1, Class 32 of the Planning, and Development Regulations 2001 (as amended).


Annemarie McCarthy
Executive Planner
Date: 29-04-24

29-04-24


Garreth Ruane
Senior Executive Planner
Date 01/05/24

Appropriate Assessment & Determination

STEP 1. Description of the project/proposal and local site characteristics:	
(a) File Reference No:	R24-36 Shannon Airport Authority DAC
(b) Brief description of the project or plan:	The construction of new instrument landing system (ILS) including antenna's masts, shelters, and access road at Shannon Airport.
(c) Brief description of site characteristics:	The locations of the proposed works are all within the grounds of Shannon airport and are close or adjacent to the existing run ways.
(d) Relevant prescribed bodies consulted: e.g. DHLGH (NPWS), EPA, OPW	None
(e) Response to consultation:	None.

STEP 2. Identification of relevant Natura 2000 sites using Source-Pathway-Receptor model and compilation of information on Qualifying Interests and conservation objectives.				
European Site (code)	List of Qualifying Interest/Special Conservation Interest ¹	Distance from proposed development ² (km)	Connections (Source-Pathway-Receptor)	Considered further in screening Y/N
Lower river Shannon Sac 002165	Code Qualifying Habitats 1150 Coastal Lagoons* (* denotes priority habitat) 6410 Molinia Meadows on Chalk and Clay (Eu-Molinion) 1130 Estuaries 1140 Mudflats and Sandflats not covered by water at low tide 1330	.12k	No	No

Atlantic Salt
 Meadows
 (Glaucopuccinellietalia)
 1410
 Mediterranean
 Salt Meadows
 (Juncetalia
 maritima) 1310
 Salicornia and
 other annuals
 colonizing mud
 and sand 1110
 Sandbanks which
 are slightly
 covered by
 seawater at all
 times 1220
 Perennial
 vegetation of
 stony banks 1230
 Vegetated
 seacliffs of the
 Atlantic and Baltic
 coasts 1170 Reefs
 1160 Large
 Shallow inlets and
 bays 3260 Water
 courses of plain to
 montane levels
 with the
 Ranunculion
 fluitantis and
 Callitricho
 Batrachion 91E0
 Alluvial forests
 with *Alnus*
glutinosa and
Fraxinus excelsior
AlnoPadion,
Alnion incanae,
Salicion albae *

River Shannon and river Fergus estuaries SAC site code 004077	Code Species Name (Common Name) Status	1km	No	No
	A017 Cormorant (Phalacrocorax carbo) Breeding + Wintering A046			
	Light-bellied Brent Goose (Branta bernicla hrota) Wintering			
	A048 Shelduck (Tadorna tadorna) Wintering A050			
	Wigeon (Anas Penelope)			
	Wintering A052 Teal (Anas crecca)			
	Wintering A054 Pintail (Anas acuta) Wintering			
	A056 Shoveler (Anas clypeata)			
	Wintering A062 Scaup (Aythya marila) Wintering			
	A137 Ringer Plover (Charadrius hiaticula)			
	Wintering A140 Golden Plover			
	(Pluvialis apricaria)			
	Wintering A141 Grey Plover			
	(Pluvialis squatarola)			
	Wintering A142 Lapwing (Vanellus vanellus)			
	Wintering A143 Knot (Calidris canutus)			

	<p>Wintering A149 Dunlin (<i>Calidris alpina</i>) Wintering A156 Black-tailed Godwit (<i>Limosa limosa</i>) Wintering A157 Bar-tailed Godwit (<i>Limosa lapponica</i>) Wintering A160 Curlew (<i>Numenius arquata</i>) Wintering A162 Redshank (<i>Tringa totanus</i>) Wintering A164 Greenshank (<i>Tringa nebularia</i>) Wintering A179 Black-headed Gull (<i>Chroicocephalus ridibundus</i>) Wintering A999 Wetlands and Water Birds Table 10: River Shannon and River Fergus Estuaries SPA Special Conservation Interest</p>			
Lough Gash Turlough SAC 000051	<p>Turloughs [3180] Rivers with muddy banks with <i>Chenopodium rubri</i> p.p. and <i>Bidention</i> p.p. vegetation [3270]</p>	7.28k	No	No

<p>Sac of Curraghchase Woods site code 000174</p>	<p>Alluvial forests with <i>Alnus glutinosa</i> and <i>Fraxinus excelsior</i> (Alno-Padion, <i>Alnion incanae</i>, <i>Salicion albae</i>) [91E0]</p> <p><i>Taxus baccata</i> woods of the British Isles [91J0]</p> <p><i>Vertigo moulinsiana</i> (Desmoulin's Whorl Snail) [1016]</p> <p><i>Rhinolophus hipposideros</i> (Lesser Horseshoe Bat) [1303]</p>	<p>8.8k</p>	<p>No</p>	<p>No</p>
<p>SAC Askeaton fen Complex</p>	<p>Calcareous fens with <i>Cladium mariscus</i> and species of the <i>Caricion davalliana</i> [7210]</p> <p>Alkaline fens [7230]</p>	<p>6.5</p>	<p>No</p>	<p>No</p>

¹ Short paraphrasing and/or cross reference to NPWS is acceptable – it is not necessary to reproduce the full text on the QI/SCI.

² If the site or part thereof is within the European site or adjacent to the European site, state here.

STEP 3. Assessment of Likely Significant Effects

(a) Identify all potential direct and indirect impacts that may have an effect on the conservation objectives of a European site, taking into account the size and scale of the project under the following headings:

Impacts:	Possible Significance of Impacts: (duration/magnitude etc.)
<p>Construction phase e.g.</p> <ul style="list-style-type: none"> • Vegetation clearance • Demolition • Surface water runoff from soil excavation/infill/landscaping (including borrow pits) • Dust, noise, vibration • Lighting disturbance • Impact on groundwater/dewatering • Storage of excavated/construction materials • Access to site • Pests 	<p>None, the site is not within a natura 2000 site and does not contain protected species or vegetation. The sites are within the grounds of an airport and close to the runways.</p>
<p>Operational phase e.g.</p> <ul style="list-style-type: none"> • Direct emission to air and water • Surface water runoff containing contaminant or sediment • Lighting disturbance • Noise/vibration • Changes to water/groundwater due to drainage or abstraction • Presence of people, vehicles, and activities • Physical presence of structures (e.g. collision risks) • Potential for accidents or incidents 	<p>None</p>
<p>In-combination/Other</p>	<p>None</p>

(b) Describe any likely changes to the European site:

<p>Examples of the type of changes to give consideration to include:</p> <ul style="list-style-type: none"> • Reduction or fragmentation of habitat area • Disturbance to QI species • Habitat or species fragmentation • Reduction or fragmentation in species density • Changes in key indicators of conservation status value (water or air quality etc.) • Changes to areas of sensitivity or threats to QI 	<p>None, the site is not within a natura 2000 site and does not contain protected species or vegetation. The sites are within the grounds of an airport and close to the runways.</p>
---	---

- Interference with the key relationships that define the structure or ecological function of the site

(c) Are 'mitigation' measures necessary to reach a conclusion that likely significant effects can be ruled out at screening?

Yes No

No

Step 4. Screening Determination Statement

The assessment of significance of effects:

Describe how the proposed development (alone or in-combination) is/is **not likely** to have **significant** effects on European site(s) in view of its conservation objectives.

No potential for direct or indirect adverse impacts on any Natura 2000 designated site as a result of the proposed development.

	Tick as Appropriate:	Recommendation:
(i) It is clear that there is no likelihood of significant effects on a European site.	<input type="checkbox"/>	The proposal can be screened out: Appropriate assessment not required.
Signature and Date of Recommending Officer:	<p>Anne Marie McCarthy</p> <p>29-04-24</p>	<p>A McCarthy 29-04-24</p>
Signature and Date of the Decision Maker:		



COMHAIRLE | CLARE
CONTAE AN CHLÁIR | COUNTY COUNCIL

Shannon Airport Authority DAC
C/o Paul Hennesy
Safety Compliance & Environmental Manager
Shannon Airport, Shannon
Co. Clare
V14 EE06

08/04/2024

Section 5 referral Reference R24-36 – Shannon Airport Authority DAC

Is the construction of a new Instrument Landing System (ILS), including antennas, masts, shelters and access road at Shannon Airport development and if so, is it exempted development?

A Chara,

I refer to your application received on 5th April 2024 under Section 5 of the Planning & Development Act 2000 (as amended) in relation to the above.

Please note that the Planning Authority is considering the matter and a reply will issue to you in due course.

Mise, le meas

Brian Fahy
Planning Department
Economic Development Directorate

R24-36

P07

**CLARE COUNTY COUNCIL
COMHAIRLE CONTAE AN CHLÁIR**

Planning Department,
Economic Development Directorate,
Clare County Council,
New Road, Ennis,
Co. Clare.
V95DXP2

Telephone No. (065) 6821626
Fax No. (065) 6892071
Email: planoff@clarecoco.ie
Website: www.clarecoco.ie



**REQUEST FOR A DECLARATION ON DEVELOPMENT AND EXEMPTED DEVELOPMENT
(Section 5 of the Planning & Development Act 2000 (as amended))**

FEE: €80

This following form is a non-statutory form which has been prepared by Clare County Council for the purpose of obtaining the necessary information required for a declaration to be made under Section 5 by the Planning Authority

1. CORRESPONDENCE DETAILS.	
(a) Name and Address of person seeking the declaration	PAUL HENNESSY SAFETY COMPLIANCE & ENVIRONMENT MGR. SHANNON AIRPORT AUTHORITY DAC SHANNON AIRPORT SHANNON, Co. CLARE V14 EEO6
(b) Telephone No.:	
(c) Email Address:	
(d) Agent's Name and address:	N/A

2. DETAILS REGARDING DECLARATION BEING SOUGHT

(a) PLEASE STATE THE SPECIFIC QUESTION FOR WHICH A DECLARATION IS SOUGHT
Note: only works listed and described under this section will be assessed.

Sample Question: Is the construction of a shed at 1 Main St., Ennis development and if so is it exempted development?

IS THE CONSTRUCTION OF A NEW INSTRUMENT LANDING SYSTEM (ILS) INCLUDING ANTENNAS, MASTS, SHELTERS AND ACCESS ROAD AT SHANNON AIRPORT, DEVELOPMENT AND IF SO IS IT EXEMPTED DEVELOPMENT ?

(b) Provide a full description of the question/matter/subject which arises wherein a declaration of the question is sought.

SHANNON AIRPORT INSTRUMENT LANDING SYSTEM (ILS) AND CABLING PROJECT COMPRISES THE FOLLOWING:

- REPLACEMENT OF ILS AND ASSOCIATED CABLING ON THE AIRFIELD AT SHANNON AIRPORT;
- INSTALLATION OF NEW DUCTS TO ALL SITES ON THE AIRFIELD BACK TO SHANNON TOWER (AIR TRAFFIC CONTROL) AND SURVEILLANCE RADAR ELEMENT (SRE);
- POWER DUCTS FROM SURVEILLANCE RADAR ELEMENT (SRE) TO NAVIGATIONAL AID SITES ON THE AIRFIELD.

(c) List of plans, drawings etc. submitted with this request for a declaration:
(Note: Please provide a site location map to a scale of not less than 1:2500 based on Ordnance Survey map for the areas, to identify the lands in question)

SEE ATTACHED LIST OF DRAWINGS / DOCUMENTATION.

3. DETAILS RE: PROPERTY/SITE/BUILDING FOR WHICH DECLARATION IS SOUGHT	
(a) Postal Address of the Property/Site/Building for which the declaration sought:	AIRFIELD - AREAS ADJACENT TO AND AT EACH END OF RUNWAY 06/24. TOWNLANDS: GARRYNAMONA; BALLYCALLY & CAHERTEIGE
(b) Do the works in question affect a Protected Structure or are within the curtilage of a Protected Structure? If yes, has a Declaration under Section 57 of the Planning & Development Act 2000 (as amended) been requested or issued for the property by the Planning Authority?	NO
(c) Legal interest in the land or structure in question of the person requesting the declaration (Give Details):	EMPLOYEE OF LAND OWNER
(d) If the person in (c) above is not the owner and/or occupier, state the name and address of the owner of the property in question: <i>Note: Observations in relation to a referral may be requested from the owner/occupier where appropriate.</i>	SHANNON AIRPORT AUTHORITY DAC SHANNON AIRPORT SHANNON, CO. CLARE V14 EE06
(e) Is the owner aware of the current request for a Declaration under Section 5 of the Planning & Development Act 2000 (as amended)?:	YES
(f) Are you aware of any enforcement proceedings connected to this site? <i>If so please supply details:</i>	NO
(g) Were there previous planning application/s on this site? <i>If so please supply details:</i>	YES, SEE ATTACHED LIST
(h) Date on which 'works' in question were completed/are likely to take place:	LIKELY TO COMMENCE IN Q3 2024

SIGNED: Paul Hennessy

DATE: 5th April 2024

GUIDANCE NOTES

This following are non-statutory advice notes prepared by Clare County Council for the purpose of advising people what information is required for a decision to be made under Section 5 by the Planning Authority

- (i) The request for a declaration under Section 5 must be accompanied by 2 copies of site location map based on the Ordnance Survey map for the area of a scale not less than 1:1000 in urban areas and 1:2500 in rural areas and should clearly identify the site in question.
- (ii) The request for a declaration under Section 5 must be accompanied by the required fee of €80.00.
- (iii) If submitting any additional plans/reports etc. as part of the request for a declaration, please submit 2 copies.
- (iv) The request for a declaration should be sent to the following address:

Planning Department,
Economic Development Directorate,
Clare County Council
Aras Contae an Chlair,
New Road,
Ennis,
Co. Clare
V95DXP2

- (v) Notwithstanding the completion of the above form, the Planning Authority may require the submission of further information with regard to the request in order to enable the Authority to issue a declaration on the question.
- (vi) The Planning Authority may also request other persons to submit information on the question which has arisen and on which the declaration is sought

FOR OFFICE USE ONLY

Date Received: Fee Paid:

Date Acknowledged: Reference No.:

Date Declaration made: CEO No.:

Decision:

T: +353 (0) 61 712 228
E: info@snnairportgroup.ie

www.snnairportgroup.ie



Clare County Council
Planning Dept.
New Rd.
Ennis
Co. Clare
V95 DXP2

5TH April 2024

A Chara,

Please find enclosed the following documentation in support of our request for a declaration on development and/or exempted development (Section 5 of the Planning & Development Act 2000 (as amended) for proposed works at Shannon Airport Authority, Shannon Airport, Shannon, Co. Clare, V14 EE06.

1. Cover letter.
2. €80 fee paid by card on the day of submission.
3. Project outline incl. Power Point presentation (printed)
4. Copy of Shannon Airport Aerodrome Certificate.
5. Drawing No. 11827 – 1000 Proposed Works Overview Key Plan
Drawing No. 11827 – 1001 Proposed Works Overview Area A
Drawing No. 11827 – 1002 Proposed Works Overview Area B
Drawing No. 11827 – 1003 Proposed Works Overview Area C
Drawing No. 11827 – 1004 Proposed Works Overview Area D
Drawing No. 11827 – 1005 Proposed Works Overview Area E
Drawing No. 11827 – 1006 Proposed Works Overview Area F
*Drawing 18125 – Nav Aid Shelter SNN GP 06 v.1.43
*Drawing 18125 – Nav Aid Shelter SNN GP 24 V.1.43
*Drawing 18125 – Nav Aid Shelter SNN LOC 06 V.1.43
6. Antennae Mast Heights.
7. Previous list of Planning Applications at Shannon Airport.

* Actual drawings refer to Cork Airport project previously built but replicate exactly what is proposed at Shannon Airport.

If you have any queries, please do not hesitate to contact me by e-mail paul.hennessy@snnairportgroup.ie or by phone on 087 2382453.

Mise le meas,

Paul Hennessy

General Project outline – ILS replacement at Shannon Airport

Shannon Airport ILS and cabling projects.

Projects:

- Project to replace Instrument Landing System (ILS) and cabling on the airfield at Shannon airport.
- New ducts to all sites on airfield back to Shannon Air Traffic Control (ATC) Tower and Surveillance Radar Element (SRE).
- New Power ducts from SRE to Navigational sites on the airfield.

ILS installation

- It takes 4 weeks approximately to install and commission a new ILS. Once the ILS is replaced it must radiate for one day (24 hours) before Cat I operations can be approved. The ILS must then radiate for a further 30 days (720 hours) at Cat I before Cat II operations can be approved. **Note:** the hours of radiating do not have to be consecutive.
- As ILS 24 is the Cat II ILS and is essential to Low Visibility Procedures (LVPs), any prolonged outage of ILS 24 could have a major impact on operations at Shannon airport. It was agreed to reduce the ILS 24 downtime to a minimum. As ILS 06 is the Cat I, a longer downtime for ILS 06 replacement is acceptable.
- We agreed to install the new ILS 24 while the existing ILS 24 remains in service. The new Localiser (LOC) 24 will be installed behind the existing LOC 24 and the new Glide Path (GP) & Local Distance Measuring Equipment (LDME) 24 will be installed beside the existing GP 24.
- Due to issues with Reference Datum Height (RDH), GP24 must be installed 5m closer to RWY.
- ILS 06 will be released for the duration of the replacement. We will take release of existing ILS 06, then remove the old ILS 06, install the new ILS 06 and then commission the new ILS 06.
- We are also replacing the ILS shelters at LOC 06, GP 24 & 06. The 06 & 24 GP shelter's will be moved to 140m from RWY Centre line (CL) (Outside the flight strip). The existing LOC24 shelter will be reused.

General Project Outline – ILS replacement at Shannon Airport

Antennae / Mast Heights

Equipment	Antenna Mast Height (above ground level)	
	Meters	Feet
Localiser (LLZ) 24	03.02	09.90
Glide Path (GP) 24	17.43	57.18



IRELAND

A Member of the European Union

Certificate

Certificate Reference: IE.515

Pursuant to Regulation (EC) No 216/2008 of the European Parliament and of the Council and the Commission Regulation (EU) No 139/2014 for the time being in force and subject to the conditions specified below, the Irish Aviation Authority hereby certifies that:

SHANNON AIRPORT AUTHORITY DESIGNATED ACTIVITY COMPANY

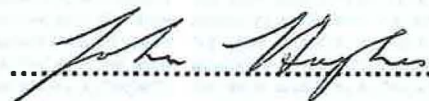
Shannon Airport, Shannon, Co Clare

is authorised to operate Shannon Airport, in accordance with the provisions of Regulation (EC) No 216/2008 and its Implementing Rules, the aerodrome certification basis, the terms of the certificate and the aerodrome manual.

This certificate shall remain valid for an unlimited duration, unless it is surrendered or revoked.

Rev:	Date of Issue:
0	20/12/2017
1	17/08/2021

Official Stamp

Signed:


John Hughes

Manager – Aerodromes

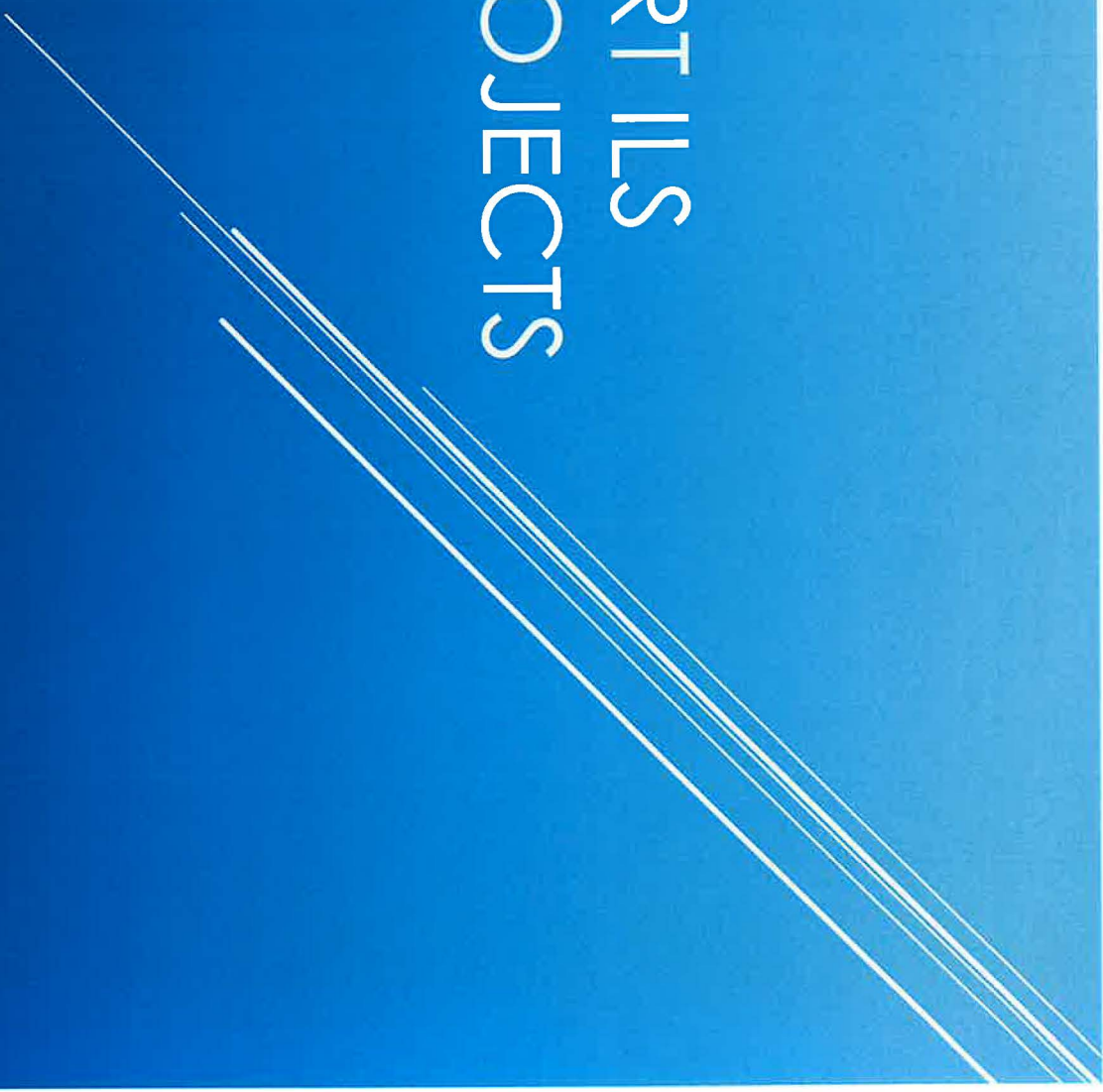
For the Irish Aviation Authority




TERMS OF THE CERTIFICATE

Certificate Reference	IE.515				
Aerodrome name – ICAO location indicator	Shannon Airport – EINN				
Conditions to operate	Day and Night IFR/VFR				
Operations on specially prepared winter runways	No				
Runway – Declared Distances	RWY Designator	TORA	TODA	ASDA	LDA
	06	3199M	3260M	3199M	3199M
	24	3199M	3260M	3199M	3059M
	Intersection Take Off Distances				
	RWY Designator	TWY	TORA	TODA	ASDA
	06	A	2067M	2128M	2067M
24	C	2703M	2764M	2703M	
24	D2	3046M	3107M	3046M	
Type of approaches	Precision Approach Category II – RWY 24 Precision Approach Category I – RWY 06				
Aerodrome reference code	4E				
Scope of aircraft operations with a higher aerodrome reference letter	Code F and as per aerodrome manual procedure.				
Provision of apron management services	None				
Rescue and Firefighting level of protection	CAT 7 (CAT 9 – available on request with 12hr prior notice)				

SHANNON AIRPORT ILS AND CABLING PROJECTS

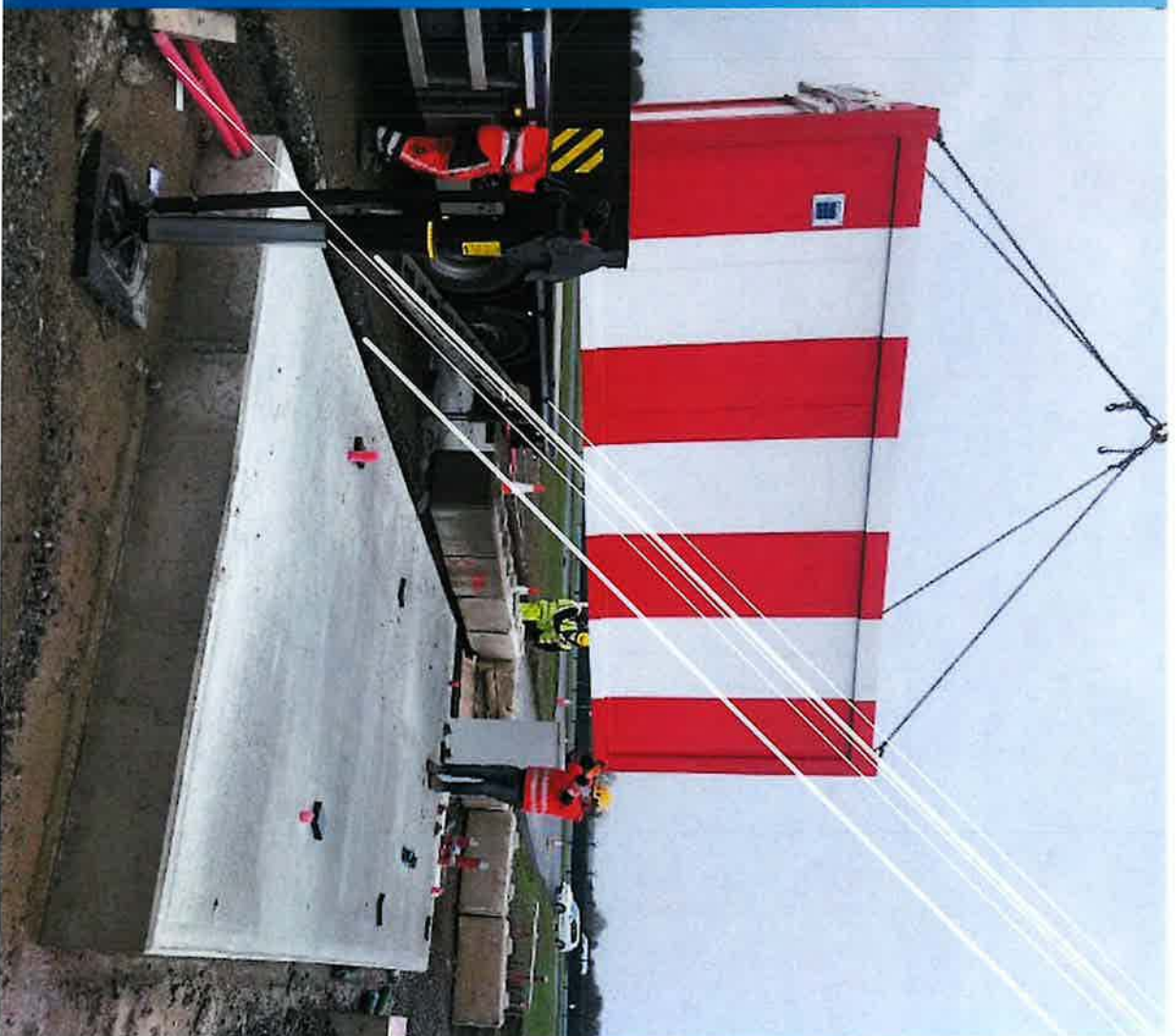


PROJECTS:

- ▶ Project to replace ILS at Shannon airport.
 - ▶ ILS shelters will be replaced at LOC 06, GP 06 and GP 24
 - ▶ Project to upgrade data cabling requires new ducts to all sites on airfield back to SNN TWR and SRE.
- 

NEW ILS SHELTERS

➤ New shelters will be installed prior to the ILS installation commencing.

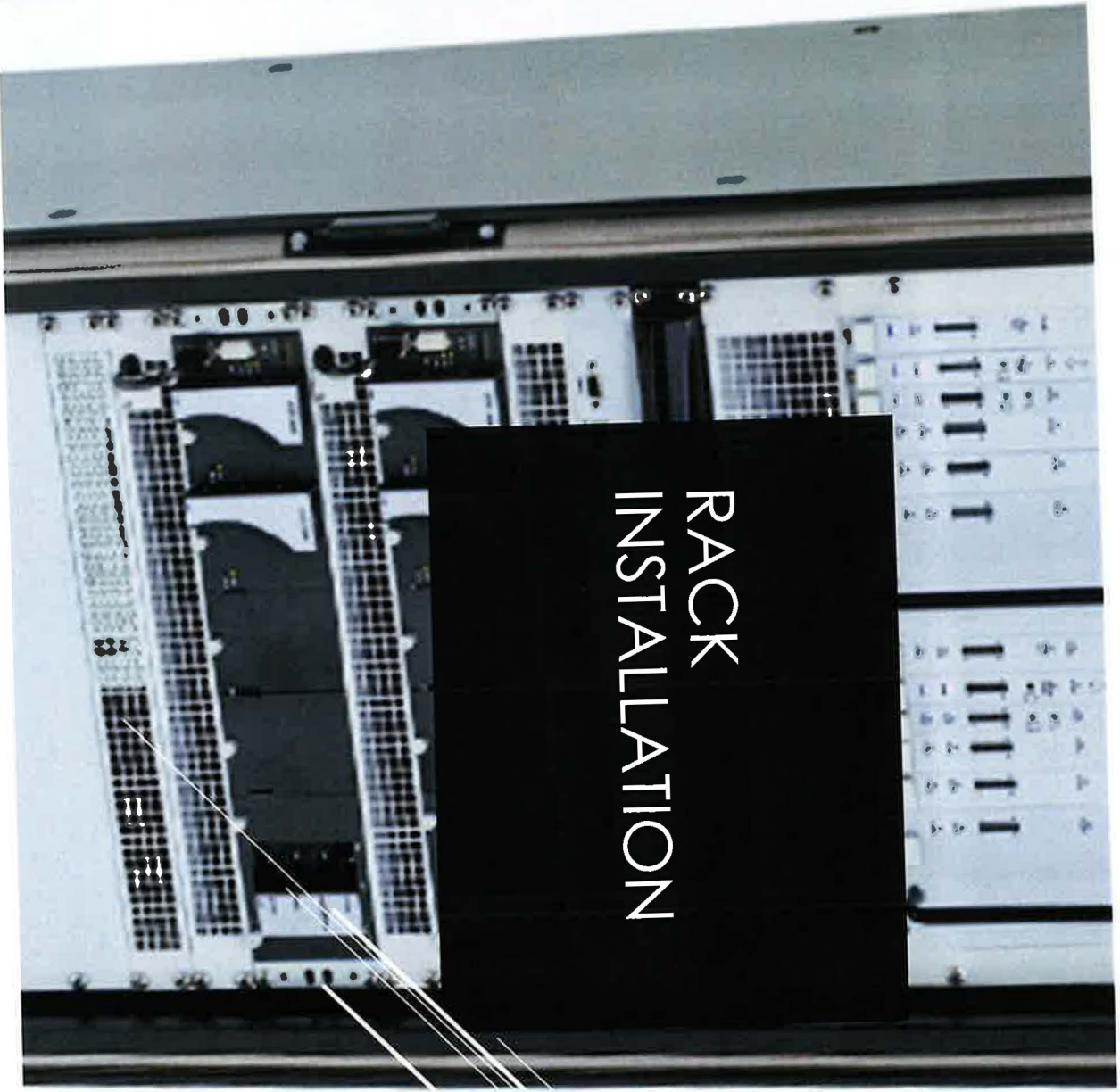
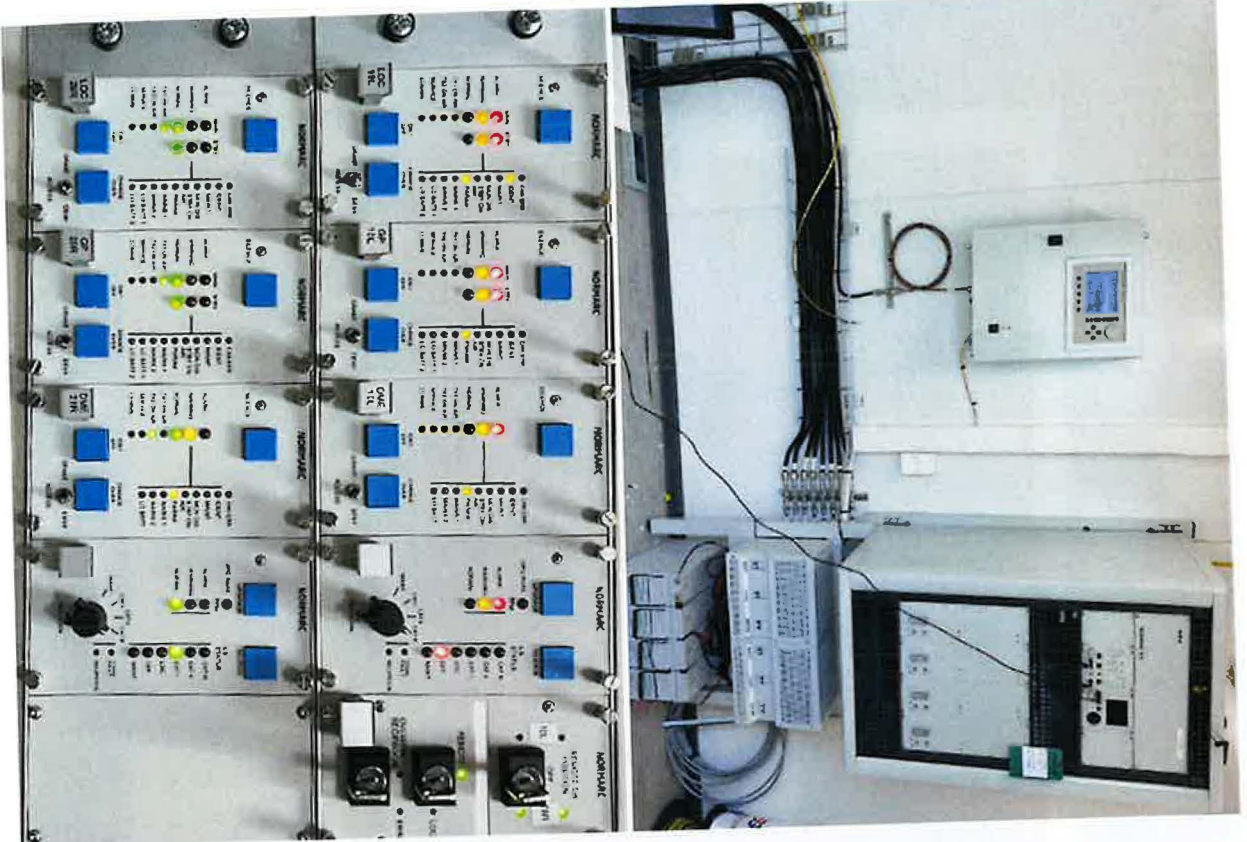


ILS INSTALLATION

It takes a
minimum of 4
weeks to install
and
commission a
new ILS.







MANAGING ILS DOWNTIME

- ▶ Following commissioning the ILS has to radiate for one day (24 hours) before Cat I operations can be approved.
- ▶ The ILS must then radiate for a further 30 days (720hours) at Cat I before Cat II operations can be approved.
- ▶ ILS 24 Cat II ILS is essential for LVPs at Shannon airport.
- ▶ It was agreed to reduce the ILS 24 downtime to a minimum.
- ▶ As ILS 06 is the Cat I a longer downtime for ILS 06 replacement is acceptable.

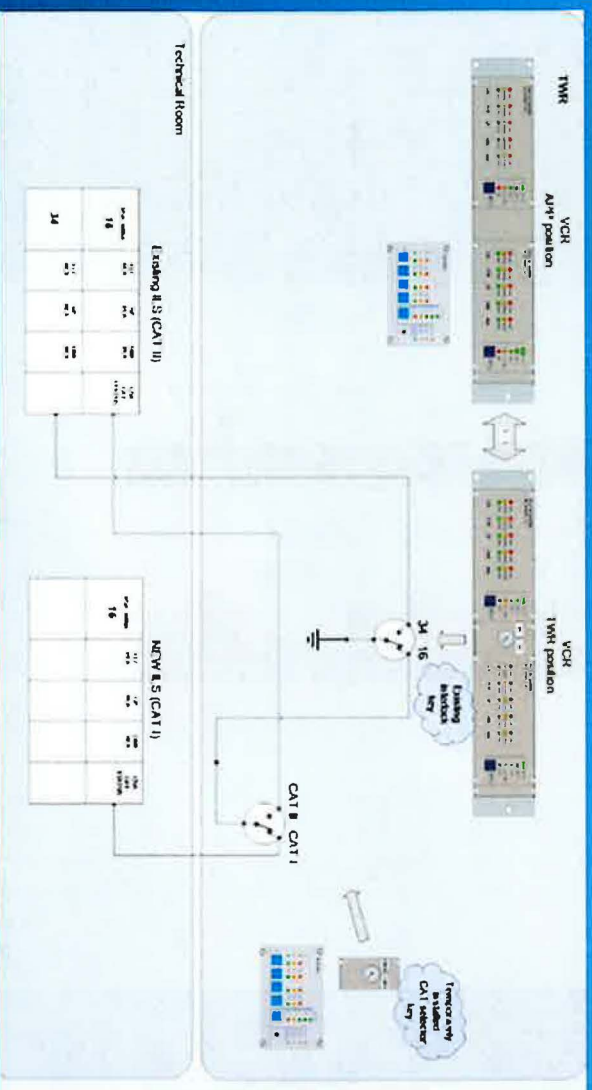
PLANNED ILS INSTALLATION

- ▶ The New ILS 24 will be installed while the existing ILS 24 remains in service
- ▶ The new LOC 24 will be installed behind the existing LOC 24 and the new GP&LDME 24 will be installed beside the existing GP&LDME 24.
- ▶ Similar strategy used in Cork.
- ▶ Note! These pictures are of the Cork ILS 16 installation.





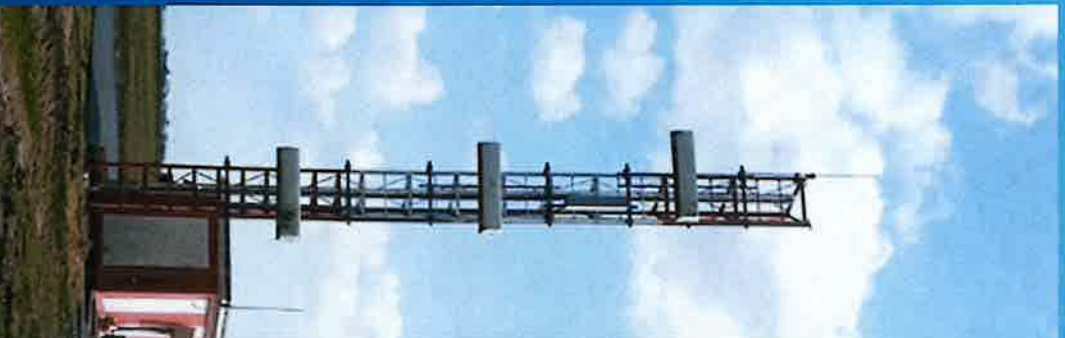
24 ILS OPERATION DURING TRANSITION PHASE



- ▶ To build up 720hours of operation on the new ILS 24, the new ILS 24 will be switched on in Cat I conditions or better.
- ▶ During Cat II conditions the existing ILS 24 will be switched on.
- ▶ Switching in this manner will mean there will be a CAT II ILS available at Shannon airport during this transition period.
- ▶ Note! The existing and new ILS 24 will have the same frequency

ILS 06 INSTALLATION

- ▶ ILS 06 will be released for the duration of the replacement.
- ▶ We will take release of ILS 06, replace the localizer antenna array, GP and LDME antenna but keep the GP mast.
- ▶ We will replace the ILS racks in the ILS shelters and the RSI
- ▶ Approximate timeframe for ILS replacement is 4 weeks.



UPGRADE AIRFIELD DUCTING AND CABLING



- New ducts will be installed between the various ILS sites, SNN TWR and Shannon radar.
- New data cable will be installed to/from the TWR and Shannon radar to each of the Navaid sites.



LEGEND:

CRITICAL ZONE

NOTE:

1. JUNCTION BOXES TO BE INSTALLED AT REGULAR INTERVALS NOT EXCEEDING 80M AND AT ALL CHANGES IN DIRECTIONS. LONG RADIUS BENDS SHALL ONLY BE PERMITTED WHERE SPECIFIED BY THE ENGINEER.
2. ALL WORKS LOCATED WITHIN THE CRITICAL AREAS SHALL BE COMPLETED AT NIGHT TIME, INCLUDING ALL DIRECTIONAL DRILLING.

NOTES:

1. FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING.
2. ALL DRAWINGS TO BE CHECKED BY THE CONTRACTOR ON SITE.
3. ENGINEER/EMPLOYERS REPRESENTATIVE, AS APPROPRIATE, TO BE INFORMED BY THE CONTRACTOR OF ANY DISCREPANCIES BEFORE ANY WORK COMMENCES.
4. THE CONTRACTOR SHALL UNDERTAKE A THOROUGH CHECK FOR THE ACTUAL LOCATION OF ALL SERVICES/UTILITIES, ABOVE AND BELOW GROUND, BEFORE ANY WORK COMMENCES.
5. ALL LEVELS SHOWN RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD.

Rev	Date	Description	By	CHK'd
D5	28.02.2024	Draft for Comment	SB	MK
D4	24.01.2024	Draft for Comment	SB	MK
D3	18.01.2024	Draft for Comment	ME	MK
D2	02.01.2024	Draft for Comment	SB	MK
D1	07.12.2023	Draft for Comment	GM	SB
D0	27.11.23	Draft for Comment	GM	SB

Client: **AIRNAV IRELAND**

Project: Shannon Airport ILS Civils and Airfield Ducting Project

Title: Proposed Works Overview Key Plan

Scale @ A1: 1:10000

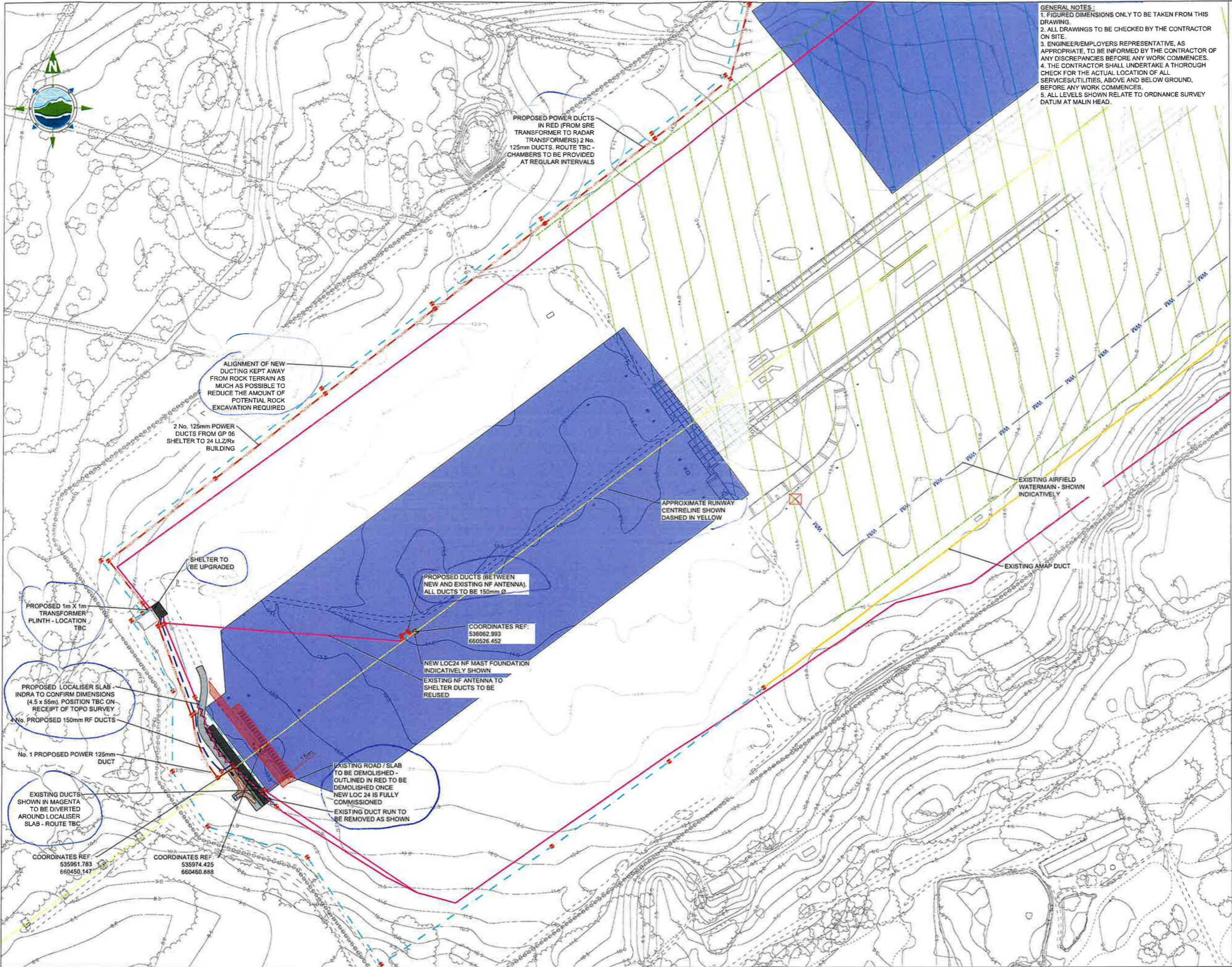
Prepared by: G.M. Checked by: S.B. Date: 27-11-2023

Drawing Status: Draft

TOBIN

Tel: +353 (0)91 565 211
Email: info@tobin.ie
www.tobin.ie

Drawing No: 11827-1000 Revision: D5



GENERAL NOTES:
 1. FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING.
 2. ALL DRAWINGS TO BE CHECKED BY THE CONTRACTOR ON SITE.
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 5. ALL LEVELS SHOWN RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD.

LEGEND:

EXISTING DUCTS	
2 No. PROPOSED 100mm DATA DUCT	
2 No. PROPOSED 125mm POWER DUCT	
2 No. PROPOSED 150mm RF DUCTS	
EXISTING ESB SUPPLY (REFER TO ESB RECORD DRAWINGS)	
EXISTING WATER SUPPLY (REFER TO SAA RECORD DRAWINGS)	
PROPOSED JB3 OR SIMILAR APPROVED PRECAST CABLE DRAW-PIT C/W F900 WATER TIGHT LOCKABLE COVER TO EN124 & DRAIN POINT FROM THE BASE OF THE CHAMBER.	
PROPOSED FOUNDATION	
PROPOSED ROAD	
AREA TO BE DEMOLISHED	
140m RUNWAY CENTRELINE OFFSET	
RUNWAY CENTRELINE	
CRITICAL ZONE	
140m RUNWAY OFFSET	

NOTE:
 JUNCTION BOXES TO BE INSTALLED AT REGULAR INTERVALS NOT EXCEEDING 80M AND AT ALL CHANGES IN DIRECTIONS. LONG RADIUS BENDS SHALL ONLY BE PERMITTED WHERE SPECIFIED BY THE ENGINEER.
 THE ROUTE OF EXISTING POWER DUCTING TO SHELTERS SHALL BE CONFIRMED ON RECEIPT OF THE GPR SURVEY

Rev	Date	Description	By	Chkd.
D6	28.02.2024	Draw for Comment	SB	MK
D5	24.01.2024	Draw for Comment	SB	MK
D4	19.01.2024	Draw for Comment	ME	MK
D3	15.01.2024	Draw for Comment	SB	MK
D2	02.01.2024	Draw for Comment	SB	MK
D1	07.12.2023	Draw for Comment	G.M	SB
D0	27.11.23	Draw for Comment	G.M	S.B



Client: **AIRNAV IRELAND**
 Project: **Shannon Airport ILS Civils and Airfield Ducting Project**

Title: **Proposed Works Overview Area A**

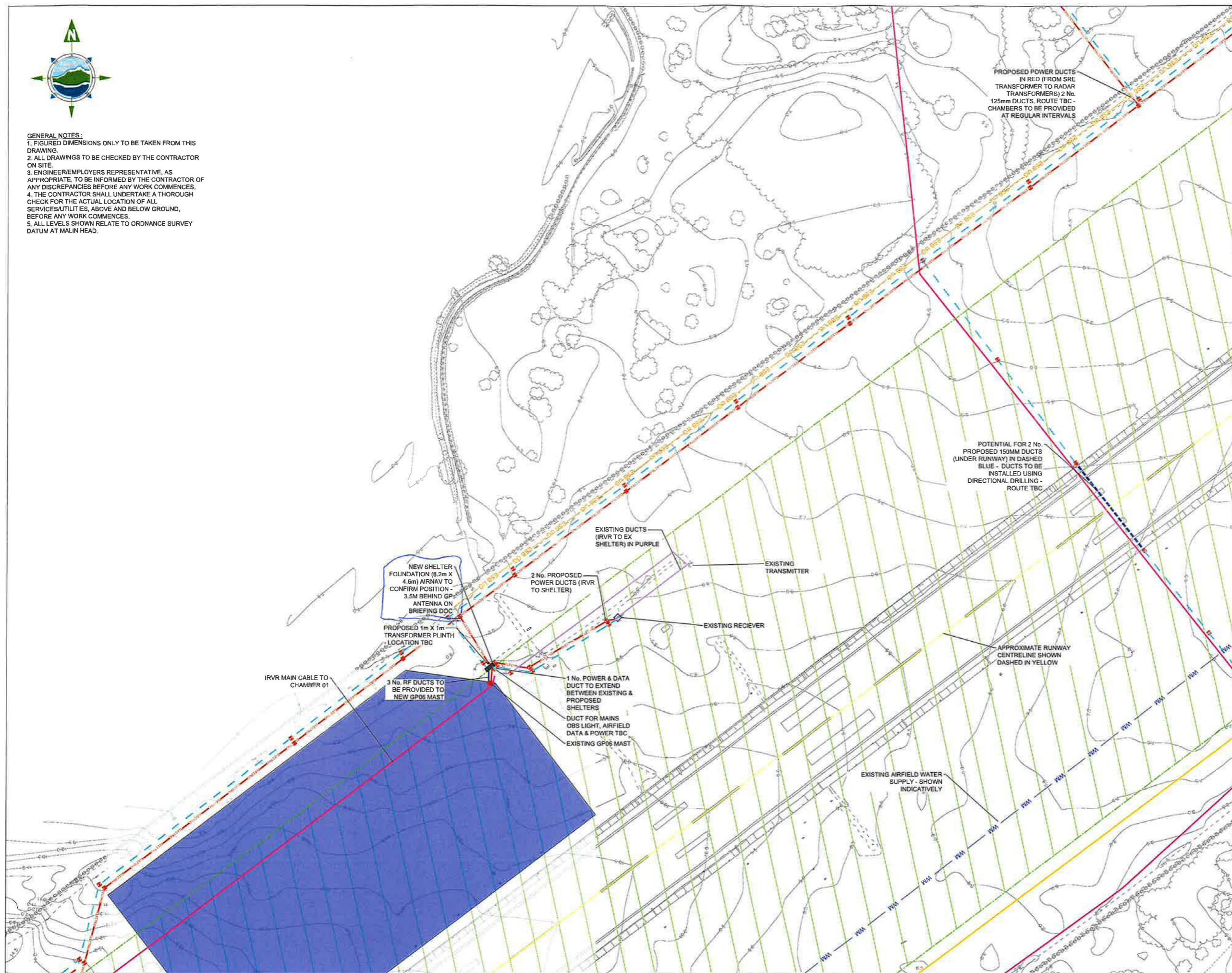
Scale @ A1: **1:1000**
 Prepared by: **G.M** Checked by: **S.B** Date: **27-11-2023**
 Drawing Status: **Draft**



Drawing No.: **11827-1001** Revision: **D6**



GENERAL NOTES:
 1. FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING.
 2. ALL DRAWINGS TO BE CHECKED BY THE CONTRACTOR ON SITE.
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 4. THE CONTRACTOR SHALL UNDERTAKE A THOROUGH CHECK FOR THE ACTUAL LOCATION OF ALL SERVICES/UTILITIES, ABOVE AND BELOW GROUND, BEFORE ANY WORK COMMENCES.
 5. ALL LEVELS SHOWN RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD.



PROPOSED POWER DUCTS IN RED (FROM SRE TRANSFORMER TO RADAR TRANSFORMERS) 2 No. 125mm DUCTS. ROUTE TBC - CHAMBERS TO BE PROVIDED AT REGULAR INTERVALS

POTENTIAL FOR 2 No. PROPOSED 150MM DUCTS (UNDER RUNWAY) IN DASHED BLUE - DUCTS TO BE INSTALLED USING DIRECTIONAL DRILLING - ROUTE TBC

LEGEND:

EXISTING DUCTS	
2 No. PROPOSED 100mm DATA DUCT	
2 No. PROPOSED 125mm POWER DUCT	
2 No. PROPOSED 150mm RF DUCTS	
EXISTING ESB SUPPLY (REFER TO ESB RECORD DRAWINGS)	
EXISTING WATER SUPPLY (REFER TO SAA RECORD DRAWINGS)	
PROPOSED JB3 OR SIMILAR APPROVED PRECAST CABLE DRAW-PIT C/W F900 WATER TIGHT LOCKABLE COVER TO EN124 & DRAIN POINT FROM THE BASE OF THE CHAMBER	
PROPOSED FOUNDATION	
PROPOSED ROAD	
AREA TO BE DEMOLISHED	
140m RUNWAY CENTRELINE OFFSET	
RUNWAY CENTRELINE	
CRITICAL ZONE	
140m RUNWAY OFFSET	
EX RECIEVER	

NOTE:
 JUNCTION BOXES TO BE INSTALLED AT REGULAR INTERVALS NOT EXCEEDING 80M AND AT ALL CHANGES IN DIRECTIONS. LONG RADIUS BENDS SHALL ONLY BE PERMITTED WHERE SPECIFIED BY THE ENGINEER.

THE ROUTE OF EXISTING POWER DUCTING TO SHELTERS SHALL BE CONFIRMED ON RECEIPT OF THE GPR SURVEY

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D5	24.01.2024	Draft for Comment	SB	MK
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D3	15.01.2024	Draft for Comment	SB	MK
D2	04.01.2024	Draft for Comment	SB	MK
D1	07.12.2023	Draft for Comment	GM	SB
D0	27.11.23	Draft for Comment	GM	S.B



Client: Shannon Airport ILS Civils and Airfield Ducting Project

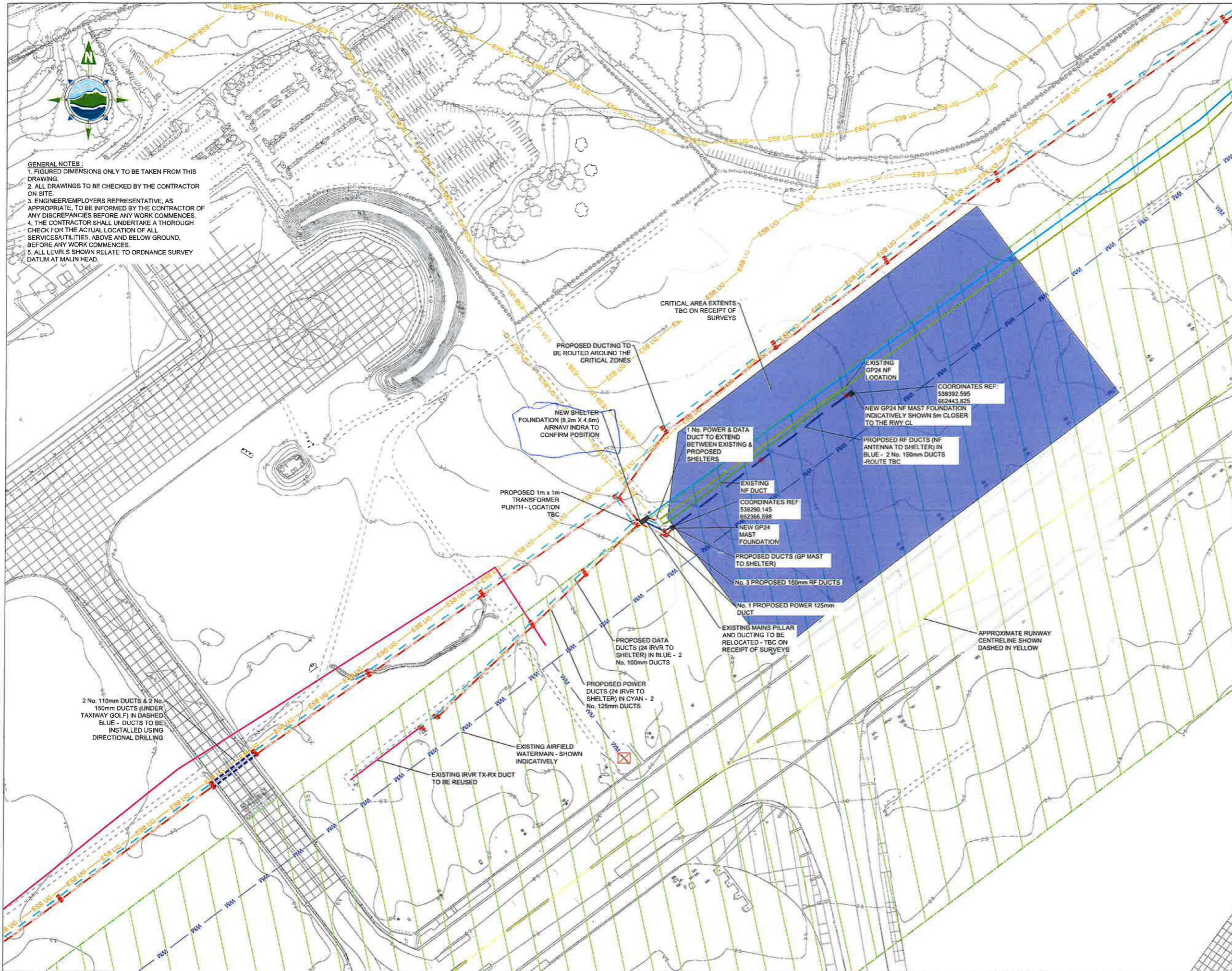
Title: Proposed Works Overview Area B

Scale @ A1: 1:1000
 Prepared by: G.M. Checked by: S.B. Date: 27-11-2023

Drawing Status: Draft



Drawing No.: 11827-1002 Revision: D5



GENERAL NOTES:
 1. FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING.
 2. ALL DRAWINGS TO BE CHECKED BY THE CONTRACTOR ON SITE.
 3. ENGINEER/EMPLOYERS REPRESENTATIVE, AS APPROPRIATE, TO BE INFORMED BY THE CONTRACTOR OF ANY DISCREPANCIES BEFORE ANY WORK COMMENCES.
 4. THE CONTRACTOR SHALL UNDERTAKE A THOROUGH CHECK FOR THE ACTUAL LOCATION OF ALL SERVICES/UTILITIES, ABOVE AND BELOW GROUND, BEFORE ANY WORK COMMENCES.
 5. ALL LEVELS SHOWN RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD.

LEGEND:

- EXISTING DUCTS
 - 2 No. PROPOSED 100mm DATA DUCT
 - 2 No. PROPOSED 125mm POWER DUCT
 - 2 No. PROPOSED 150mm RF DUCTS
 - EXISTING ESB SUPPLY (REFER TO ESB RECORD DRAWINGS)
 - EXISTING WATER SUPPLY (REFER TO SAA RECORD DRAWINGS)
- PROPOSED JB3 OR SIMILAR APPROVED PRECAST CABLE DRAW-PIT C/W F900 WATER TIGHT LOCKABLE COVER TO EN124 & DRAIN POINT FROM THE BASE OF THE CHAMBER.
- PROPOSED FOUNDATION
- PROPOSED ROAD
- AREA TO BE DEMOLISHED
- 140m RUNWAY CENTRELINE OFFSET
- RUNWAY CENTRELINE
- CRITICAL ZONE
- 140m RUNWAY OFFSET

NOTE:
 JUNCTION BOXES TO BE INSTALLED AT REGULAR INTERVALS NOT EXCEEDING 80M AND AT ALL CHANGES IN DIRECTIONS. LONG RADIUS BENDS SHALL ONLY BE PERMITTED WHERE SPECIFIED BY THE ENGINEER.
 THE ROUTE OF EXISTING POWER DUCTING TO SHELTERS SHALL BE CONFIRMED ON RECEIPT OF THE GPR SURVEY

Rev	Date	Description	By	Chkd.
D6	28.02.2024	Draft for Comment	SB	MK
D5	24.01.2024	Draft for Comment	SB	MK
D4	18.01.2024	Draft for Comment	ME	MK
D3	15.01.2024	Draft for Comment	SB	MK
D2	02.01.2024	Draft For Comment	SB	MK
D1	07.12.2023	Draft for Comment	GM	SB
D0	27-11-23	Draft for Comment	G.M	S.B

Client

Project:
 Shannon Airport ILS Civils and Airfield Ducting Project

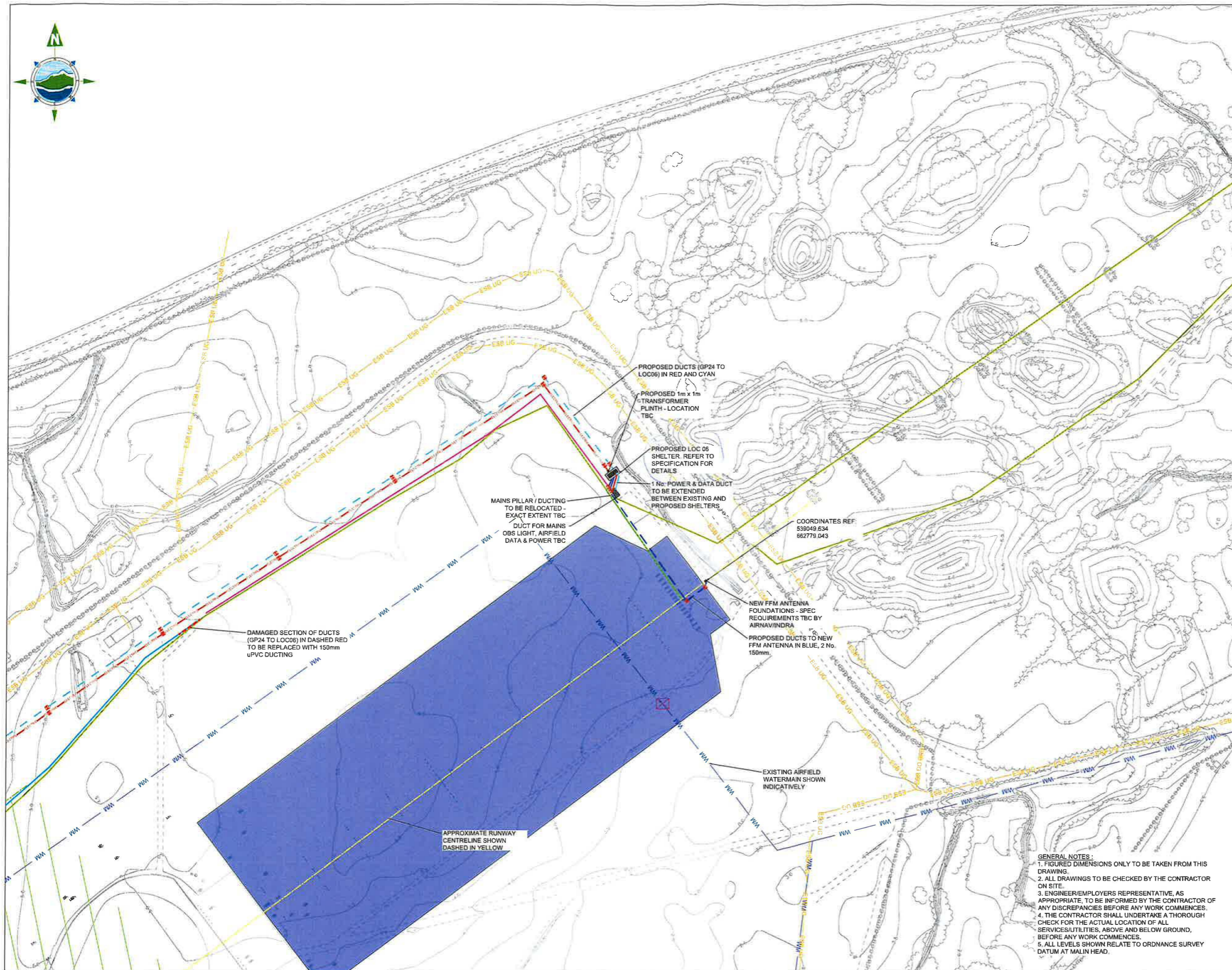
Title:
 Proposed Works Overview Area C

Scale @ A1: 1:1000
 Prepared by: G.M. Checked by: S.B. Date: 27-11-2023
 Drawing Status: Draft

TOBIN

 Tel: +353 (0)81 585 211
 Email: info@tobin.ie
 www.tobin.ie

Drawing No.: 11827-1003
 Revision: D6



LEGEND:

- EXISTING DUCTS
- 2 No. PROPOSED 100mm DATA DUCT
- 2 No. PROPOSED 125mm POWER DUCT
- 2 No. PROPOSED 150mm RF DUCTS
- EXISTING ESB SUPPLY (REFER TO ESB RECORD DRAWINGS)
- EXISTING WATER SUPPLY (REFER TO SAA RECORD DRAWINGS)
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- PROPOSED FOUNDATION
- PROPOSED ROAD
- AREA TO BE DEMOLISHED
- 140m RUNWAY CENTRELINE OFFSET
- RUNWAY CENTRELINE
- CRITICAL ZONE
- 140m RUNWAY OFFSET

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Rev	Date	Description	By	Chkd.
D5	28.02.2024	Draft for Comment	SB	MK
D4	24.01.2024	Draft for Comment	SB	MK
D3	15.01.2024	Draft for Comment	SB	MK
D2	02.01.2024	Draft for Comment	SB	MK
D1	07.12.2023	Draft for Comment	GM	SB
D0	27-11-23	Draft for Comment	G.M	S.B



Client:
AIRNAV IRELAND

Project:
 Shannon Airport ILS Civils and Airfield Ducting Project

Title:
 Proposed Works Overview Area D

Scale @ A1: 1:1000

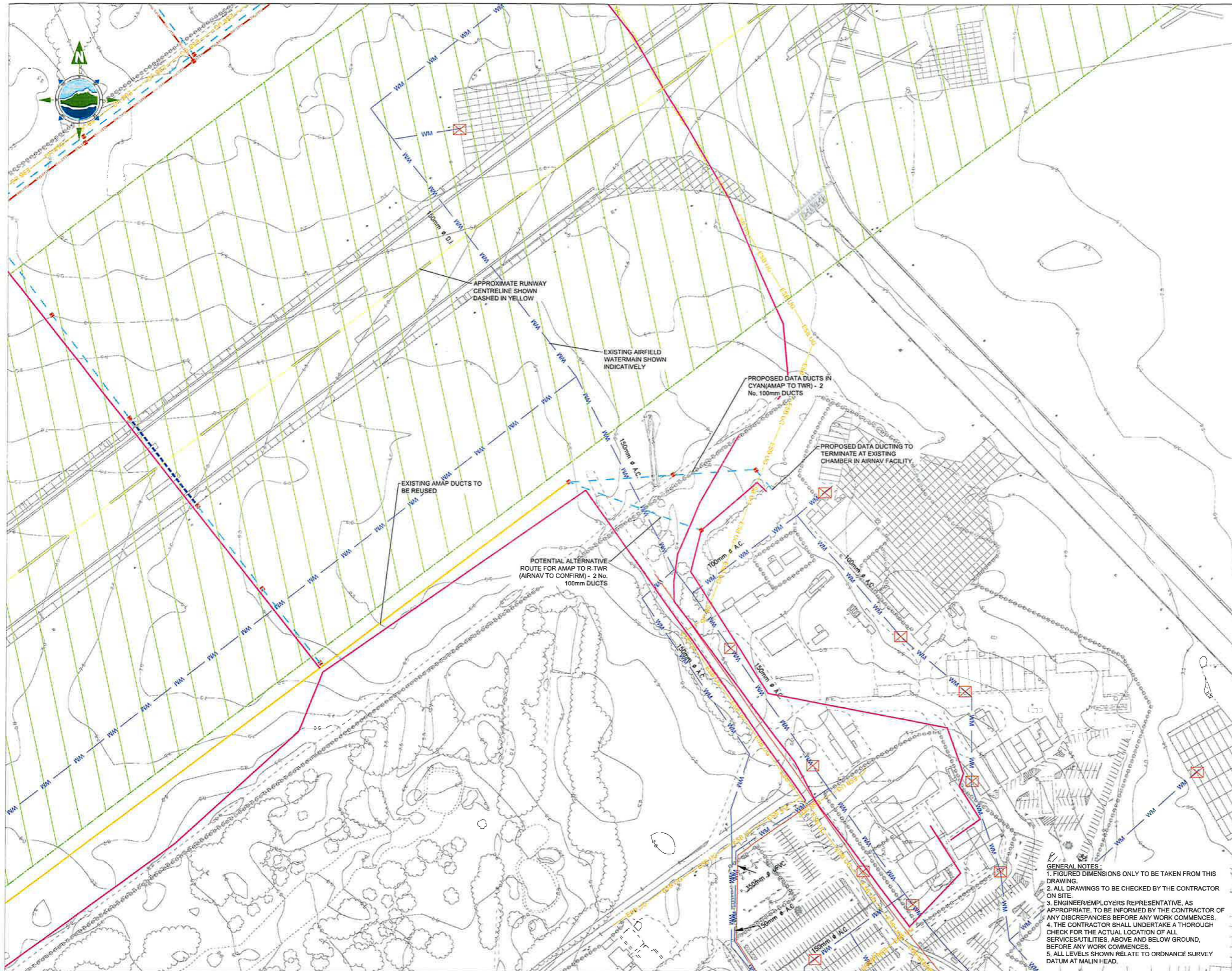
Prepared by: G.M. Checked by: S.B. Date: 27-11-2023

Drawing Status: Draft



Drawing No.: 11827-1004 Revision: D5

GENERAL NOTES:
 1. FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING.
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- PROPOSED FOUNDATION
- PROPOSED ROAD
- AREA TO BE DEMOLISHED
- 140m RUNWAY CENTRELINE OFFSET
- RUNWAY CENTRELINE
- CRITICAL ZONE
- 140m RUNWAY OFFSET

NOTE:

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THE ROUTE OF EXISTING POWER DUCTING TO SHELTERS SHALL BE CONFIRMED ON RECEIPT OF THE GPR SURVEY

Rev	Date	Description	By	Chkd
D4	24.01.2024	Draft for Comment	SB	MK
D3	15.01.2024	Draft for Comment	SB	MK
D2	02.01.2024	Draft for Comment	SB	MK
D1	07.12.2023	Draft for Comment	GM	SB
D0	27.11.23	Draft for Comment	G.M	S.B



Project:
Shannon Airport ILS Civils and Airfield Ducting Project

Title:
Proposed Works Overview Area E

Scale @ A1: 1:1000
Prepared by: G.M. Checked by: S.B. Date: 27-11-2023

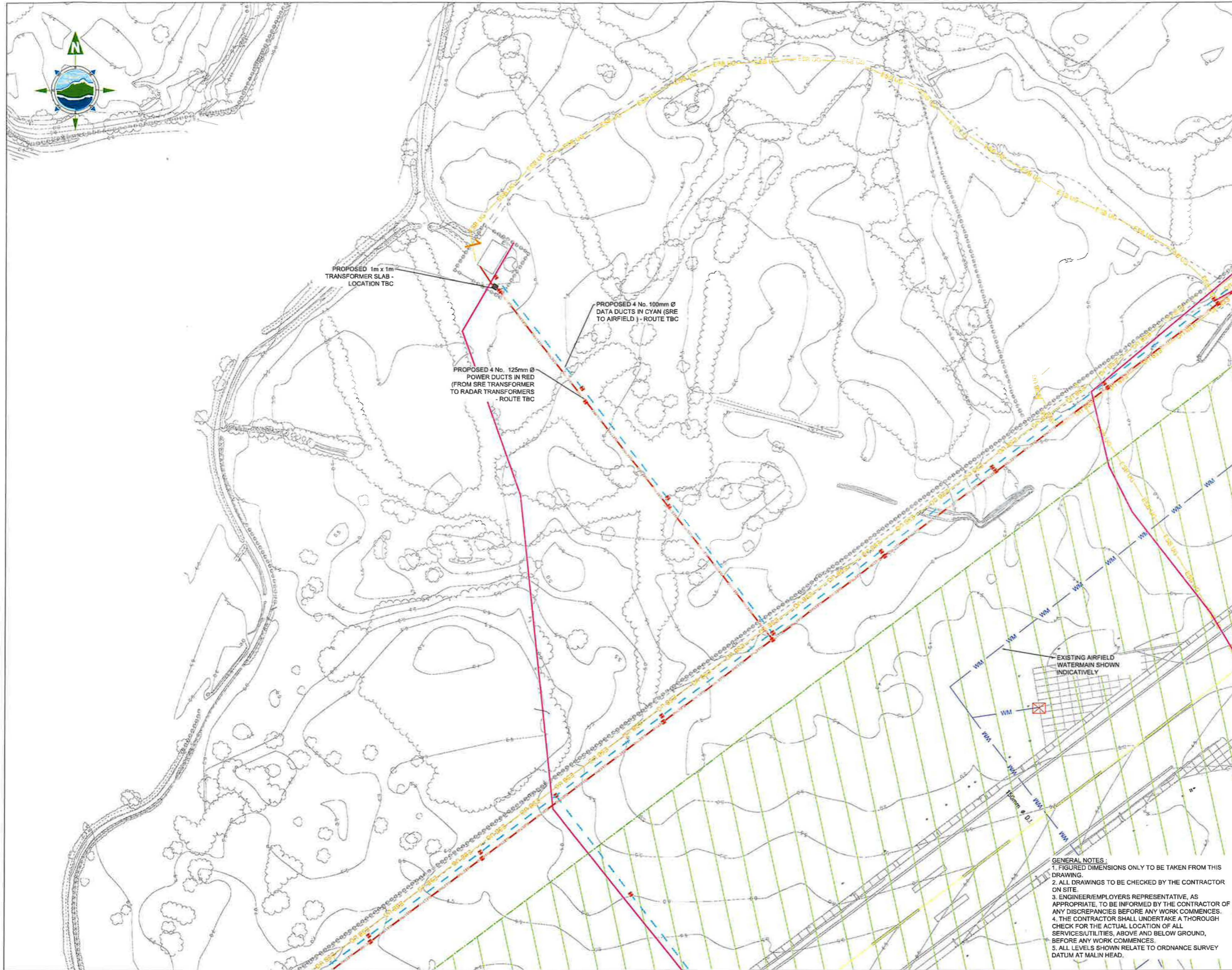
Drawing Status: Draft



Drawing No.: 11827-1005 Revision: D4

GENERAL NOTES:

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2 No. PROPOSED 125mm POWER DUCT

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EXISTING WATER SUPPLY (REFER TO SAA RECORD DRAWINGS)

PROPOSED JB3 OR SIMILAR APPROVED PRECAST CABLE DRAW-PIT C/W F900 WATER TIGHT LOCKABLE COVER TO EN124 & DRAIN POINT FROM THE BASE OF THE CHAMBER.

PROPOSED FOUNDATION

PROPOSED ROAD

AREA TO BE DEMOLISHED

140m RUNWAY CENTRELINE OFFSET

RUNWAY CENTRELINE

CRITICAL ZONE

140m RUNWAY OFFSET

NOTE:

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D4	24.01.2024	Draft for Comment	SB	MK
D3	15.01.2024	Draft for Comment	SB	MK
D2	02.10.2024	Draft for Comment	SB	MK
D1	07.12.2023	Draft for Comment	GM	SB
D0	27.11.23	Draft for Comment	GM	S.B.
Rev	Date	Description	By	Chkd.



Project:
Shannon Airport ILS Civils and Airfield Ducting Project

Title:
Proposed Works Overview Area F

Scale @ A1: 1:1000

Prepared by: G.M. Checked by: S.B. Date: 27-11-2023

Drawing Status: Draft



Drawing No.: 11827-1006 Revision: D4

GENERAL NOTES:

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Search Results

Selected Site(s): Clare County Council

File number:

Surname: Shannon Airport Authority

At Address:

Development Description:

For: ALL years

Page Number : 1

File Number	Application Status	Decision Due Date	Decision Date	Decision Code	Received Date	Applicant Name	Development Address	Development Description	Local Authority Name
13238	INCOMPLETED APPLICATION				21/05/2013	Shannon Airport Authority plc	Rineanna South Shannon Airport Co. Clare	for the reconfiguration of the Terminal building forecourt. The development will comprise of altera...	Clare County Council
13480	APPLICATION FINALISED	14/11/2013	25/10/2013	CONDITIONAL	20/09/2013	Shannon Airport Authority	Rineanna South Shannon Airport Co Clare	for a warehouse extension at the Worldwide Flight Services Ltd. facility which development will comp...	Clare County Council
14137	APPLICATION FINALISED	15/06/2014	28/05/2014	CONDITIONAL	14/03/2014	Shannon Airport Authority	Tank Farm Road Shannon Airport Co Clare	for the demolition of five number 19.5m diameter x 14.65m high storage tanks at the location of a no...	Clare County Council
14387	APPLICATION FINALISED	20/08/2014	11/08/2014	CONDITIONAL	26/06/2014	Shannon Airport Authority	Rineanna South Shannon Co. Clare	for development which consists of the installation of a covered walkway adjacent to the east ramp of...	Clare County Council
15121	APPLICATION FINALISED	29/04/2015	21/04/2015	CONDITIONAL	05/03/2015	Shannon Airport Authority	Lismaclean Shannon Airport Co. Clare	for the construction of a new single storey office extension, ancillary car parking including all as...	Clare County Council
15291	INCOMPLETED APPLICATION				28/04/2015	Shannon Airport Authority	Rineanna South Shannon Airport Co. Clare	for the extension of the Landside covered walkway at Shannon Airport. The development will comprise ...	Clare County Council
15329	APPLICATION FINALISED	09/07/2015	07/07/2015	CONDITIONAL	15/05/2015	Shannon Airport Authority	Shannon Airport Shannon Co Clare	for the extension of the landside covered walkway. The development will comprise of an extension to ...	Clare County Council

15450	APPLICATION FINALISED	26/08/2015	25/08/2015	CONDITIONAL	02/07/2015	Shannon Airport Authority	Shannon Airport Shannon Co. Clare	for the refurbishment and localised reconfiguration of the existing Arrivals/Immigration Hall, Trans...	Clare County Council
1557	APPLICATION FINALISED	31/03/2015	26/03/2015	UNCONDITIONAL	04/02/2015	Shannon Airport Authority	Rineanna South Ballyhennessy Co. Clare	to Extend the Appropriate Period of Planning Permission P08-1992(APB Ref 03.233151 for demolition of...	Clare County Council
1614	APPLICATION FINALISED	09/03/2016	01/03/2016	CONDITIONAL	14/01/2016	Shannon Airport Authority	Shannon Airport Fire Station Shannon Airport Co. Clare	for construction of a ground floor extension (118m2) to the existing fire station whereby the new sp...	Clare County Council

Search Results

Selected Site(s): Clare County Council

File number:

Surname: Shannon Airport Authority

At Address:

Development Description:

For: ALL years

Page Number : 2

File Number	Application Status	Decision Due Date	Decision Date	Decision Code	Received Date	Applicant Name	Development Address	Development Description	Local Authority Name
16746	INCOMPLETED APPLICATION				29/09/2016	Shannon Airport Authority	Shannon Airport Shannon Co Clare	for the development within a Strategic Development Zone of a Fire Training Ground at the Secondary S...	Clare County Council
16788	APPLICATION FINALISED	27/01/2017	20/01/2017	CONDITIONAL	13/10/2016	Shannon Airport Authority	Shannon Airport Co Clare	for the development within a Strategic Development Zone of a Fire Training Ground at the Secondary S...	Clare County Council
1724	APPLICATION FINALISED	16/03/2017	15/03/2017	CONDITIONAL	20/01/2017	Shannon Airport Authority DAC	Lismaclean & Ballyhennessy Bunratty Lower Shannon Airport CO. Clare	for the following proposed development which will comprise of the construction of a new steel framed...	Clare County Council
17364	APPLICATION FINALISED	10/07/2017	29/06/2017	CONDITIONAL	16/05/2017	Shannon Airport Authority DAC	Ballycally Shannon Co Clare	for the demolition of a three bedroomed habitable bungalow and seperate garage located at Ballycally...	Clare County Council
17910	APPLICATION FINALISED	27/01/2018	19/01/2018	CONDITIONAL	24/11/2017	Shannon Airport Authority DAC	Shannon Airport Shannon Co. Clare	for proposed alterations and refurbishment works to the New Terminal Building at Shannon Airport. Th...	Clare County Council
18514	APPLICATION FINALISED	19/08/2018	16/08/2018	CONDITIONAL	25/06/2018	Shannon Airport Authority	New Terminal Building Shannon Airport	for alterations and refurbishment works which were carried out to the New Terminal Building....	Clare County Council

							Shannon Co. Clare		
191006	APPLICATION FINALISED	22/03/2021	22/03/2021	CONDITIONAL	20/12/2019	Shannon Airport Authority	Shannon Airport Shannon Rineanna South Co Clare	for refurbishment works to existing coastal defence embankments at Shannon Airport, Shannon, Rineanna...	Clare County Council
19693	APPLICATION FINALISED	28/10/2019	17/10/2019	CONDITIONAL	03/09/2019	Shannon Airport Authority DAC	Shannon Co. Clare	for amendments to include the following; the inclusion of two number, approximately 17.6 meter tall ...	Clare County Council
20886	APPLICATION FINALISED	28/01/2021	12/01/2021	CONDITIONAL	25/11/2020	Shannon Airport Authority DAC	Shannon Airport Authority DAC Shannon Airport Rineanna South Co Clare	the development consists of the erection of a 68m linear, glazed and covered passenger walkway from ...	Clare County Council
21106	APPLICATION FINALISED	08/04/2021	06/04/2021	CONDITIONAL	12/02/2021	Shannon Airport Authority DAC	Rineanna South Shannon Co Clare	for ground investigation (GI) works, to inform the option selection and design of the proposed Shann...	Clare County Council

Search Results

Selected Site(s): Clare County Council

File number:

Surname: Shannon Airport Authority

At Address:

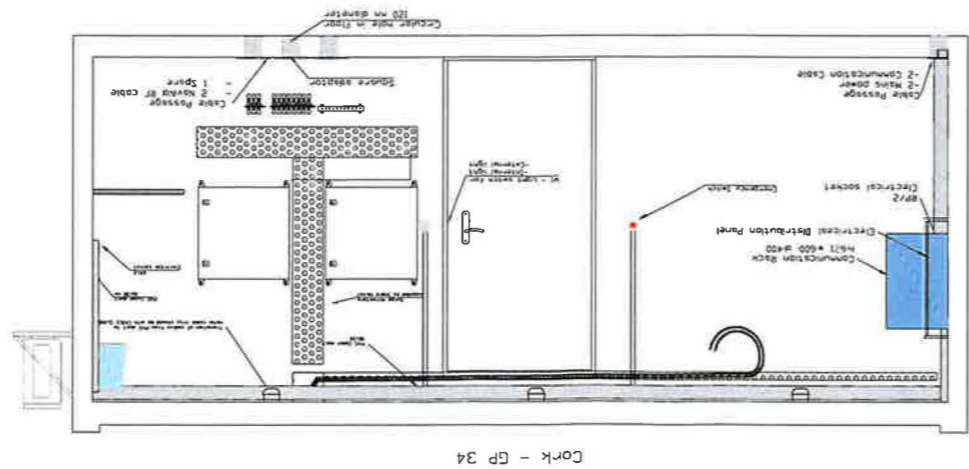
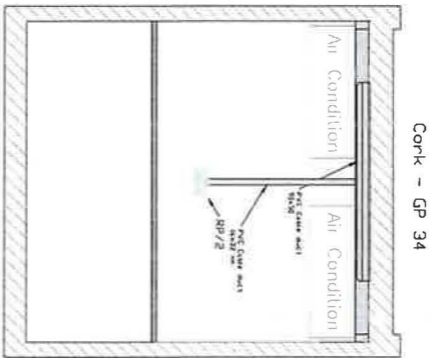
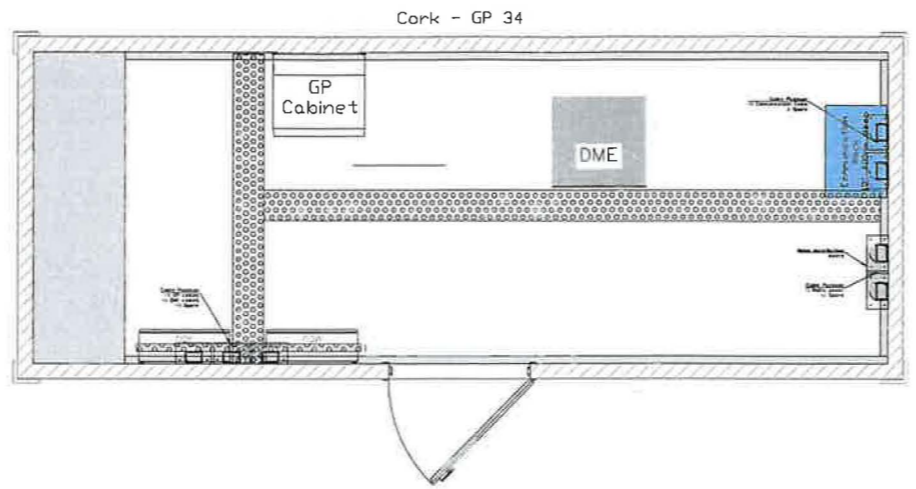
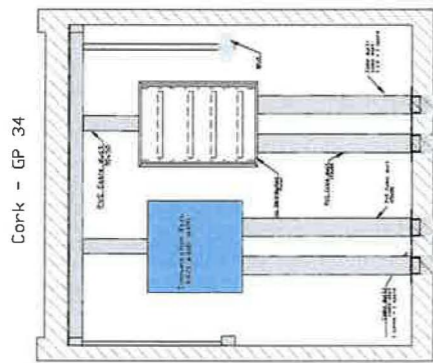
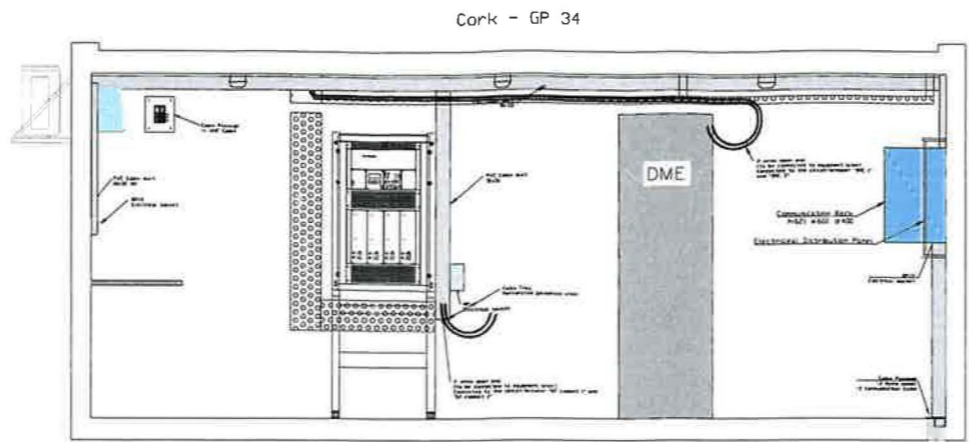
Development Description:

For: ALL years

Page Number : 3

File Number	Application Status	Decision Due Date	Decision Date	Decision Code	Received Date	Applicant Name	Development Address	Development Description	Local Authority Name
22155	APPLICATION FINALISED	18/04/2022	12/04/2022	CONDITIONAL	22/02/2022	Shannon Airport Authority DAC	Shannon Airport Rineanna South Shannon, Co Clare	for an Electric Vehicle (EV) charging hub. The development will consist of EV charging facilities for public car parks	Clare County Council
22317	APPLICATION FINALISED	01/06/2022	27/05/2022	CONDITIONAL	07/04/2022	Shannon Airport Authority DAC	Shannon Airport Authority DAC Shannon Airport Rineanna South Co Clare	to RETAIN a 99m2 single storey extension to the airport fire station fire tender bays.	Clare County Council

CONTAINER GENERAL CONFIGURATION	
Destination	Cork, Ireland
Container ID	GP 34
Quantity in order	4
Forklift Pockets	NO
Foundation fasteners	YES
Door locking mechanism	YES - hold open
Air-condition	2 pcs
Air-condition installation	Frame on top outside
Type of cable sealing	Square adapter and ROXTEC
Type of transport	Truck
Dimension exterior (lwxh)	5.8 x 2.3 x 2.6m
Special condition	



AVINEERING

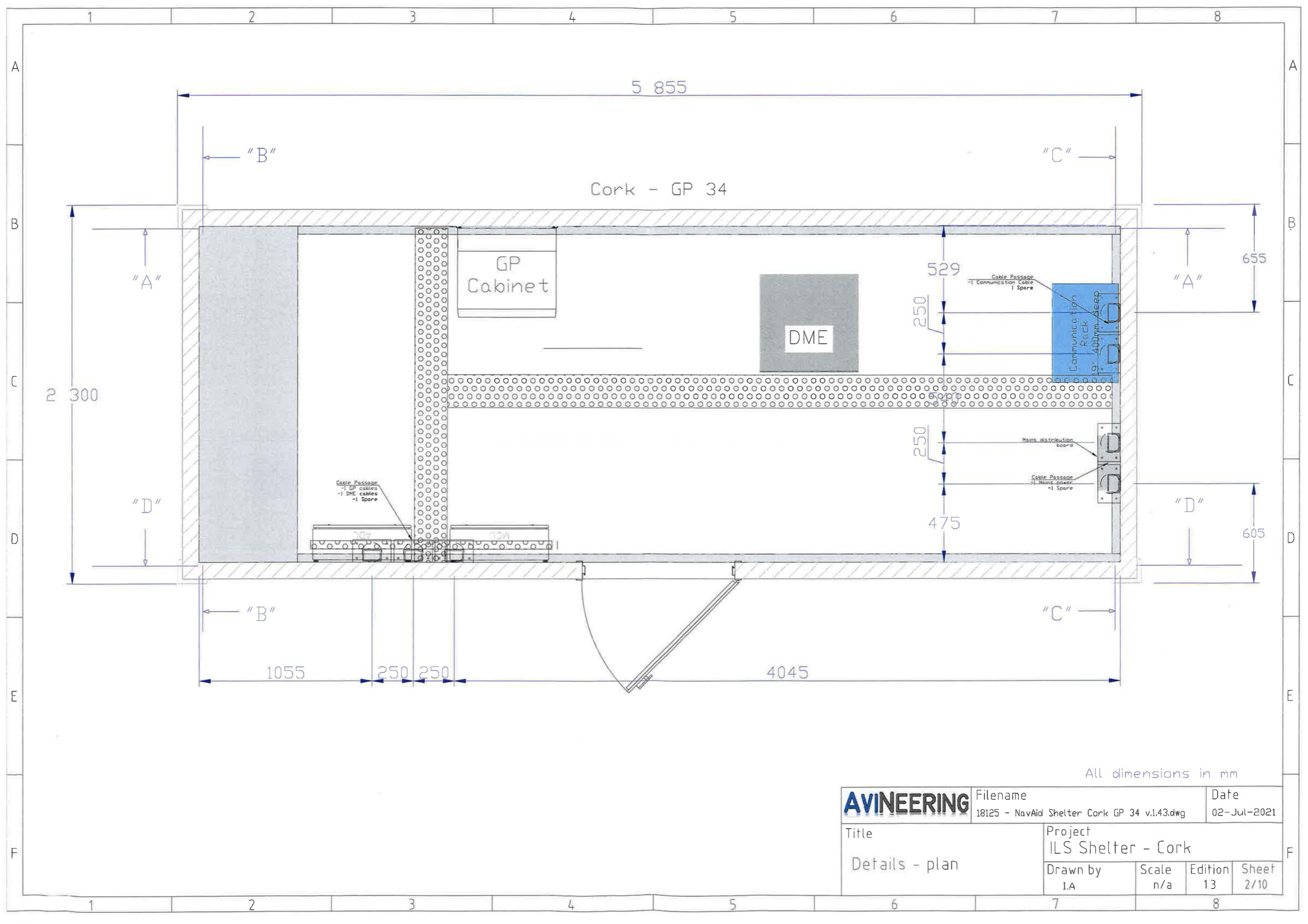
Filename
18125 - NavAid Shelter Cork GP 34 v.1.43.dwg

Date
02-Jul-2021

Title
General Layout

Project
ILS Shelter - Cork

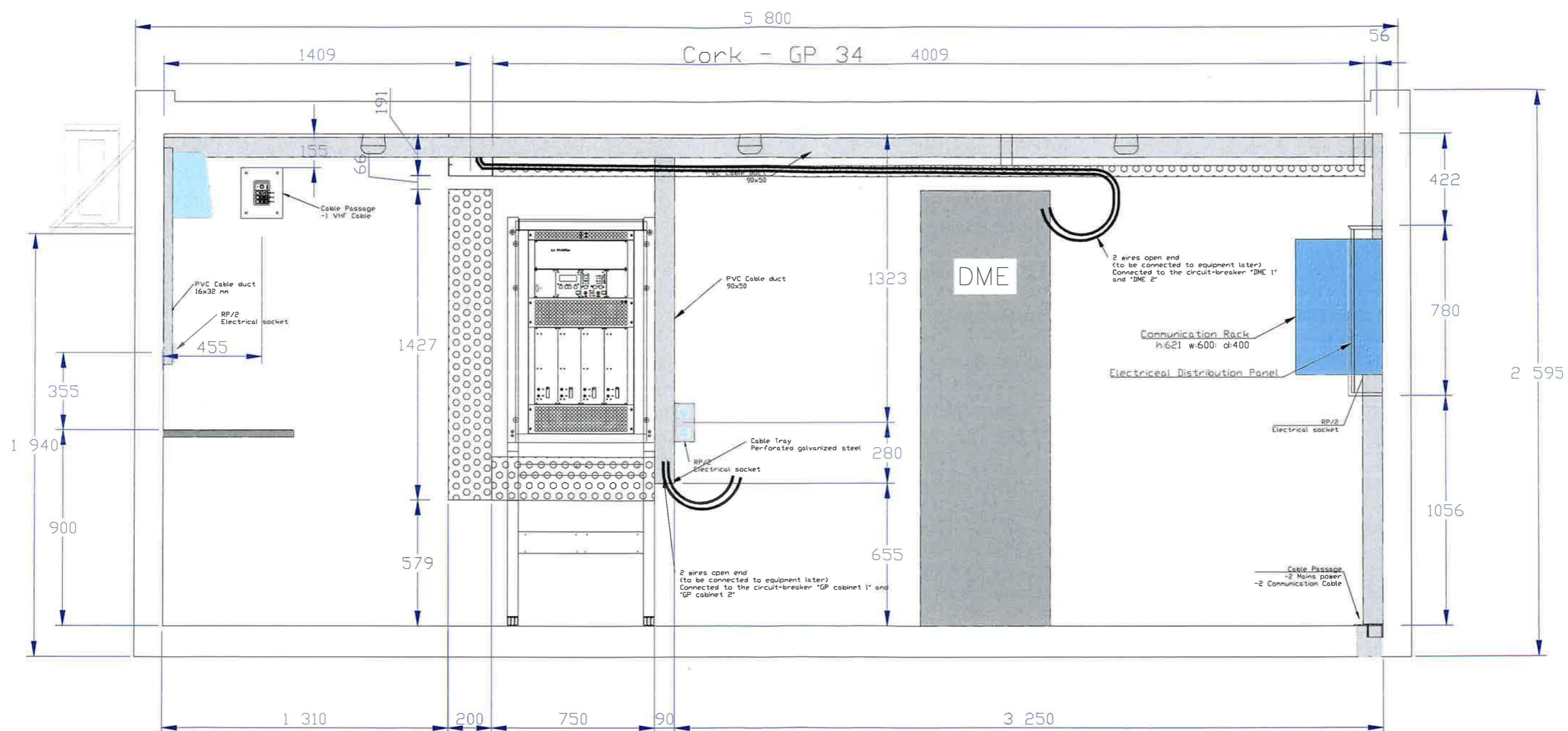
Drawn by I.A	Scale n/a	Edition 1.3	Sheet 1/10
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All dimensions in mm

AVINEERING	Filename	Date	
	18125 - NavAid Shelter Cork GP 34 v.1.43.dwg	02-Jul-2021	
Title		Project	
Details - plan		ILS Shelter - Cork	
Drawn by	Scale	Edition	Sheet
I.A	n/a	13	2/10

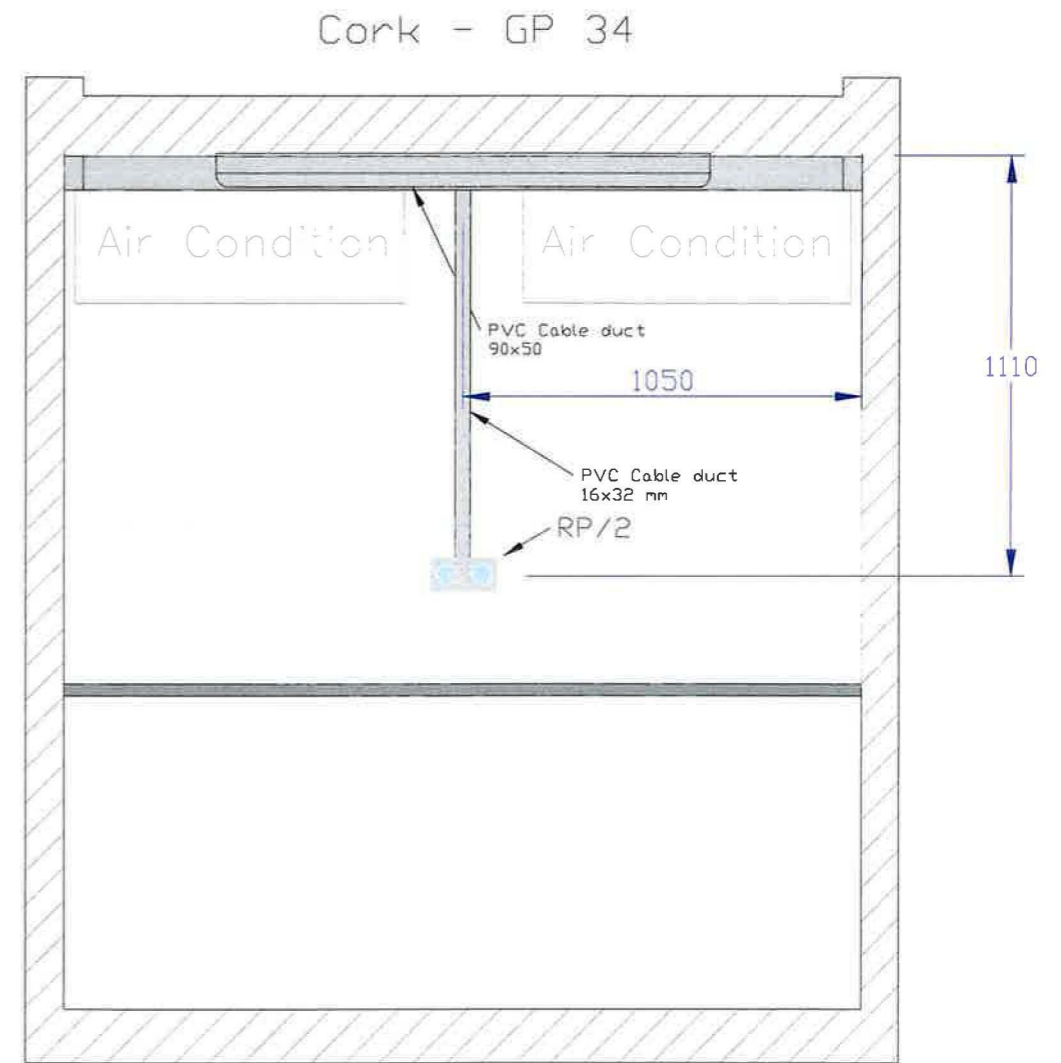
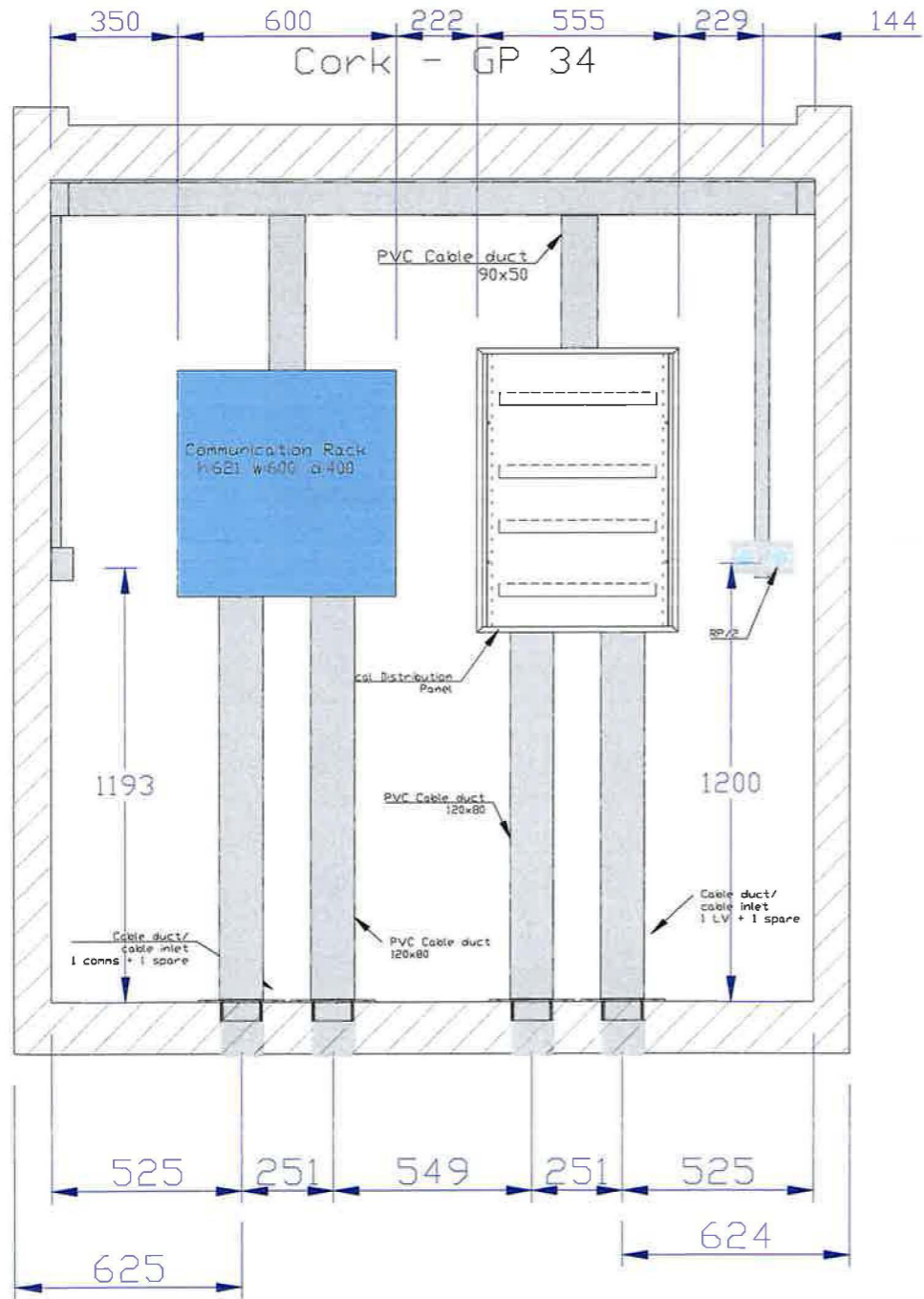
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AVINEERING	Filename	Date	
	18125 - NavAid Shelter Cork GP 34 v.1.43.dwg	02-Jul-2021	
Title		Project	
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Drawn by	Scale	Edition	Sheet
I.A	n/a	13	3/10

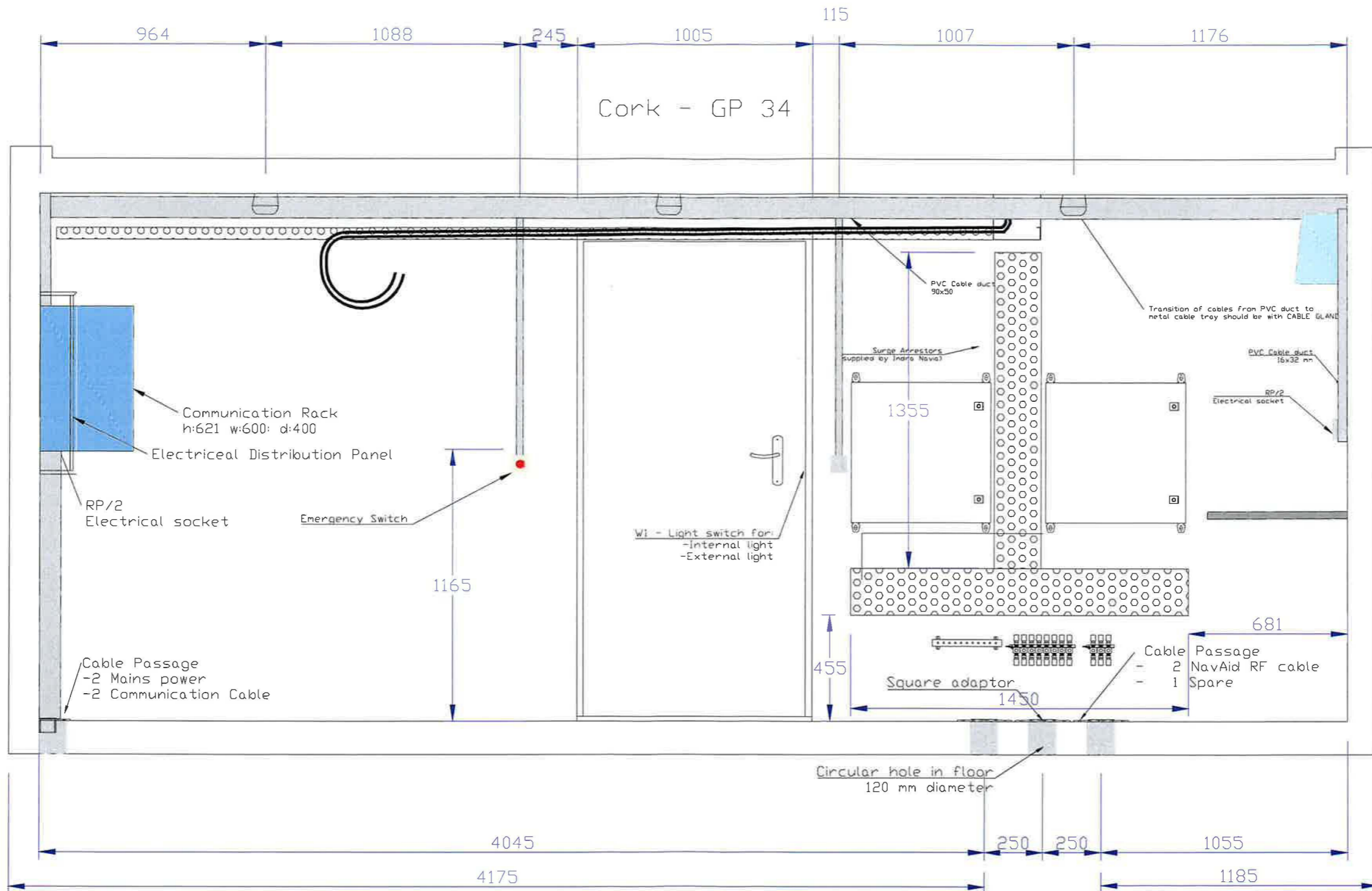
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Section "C"



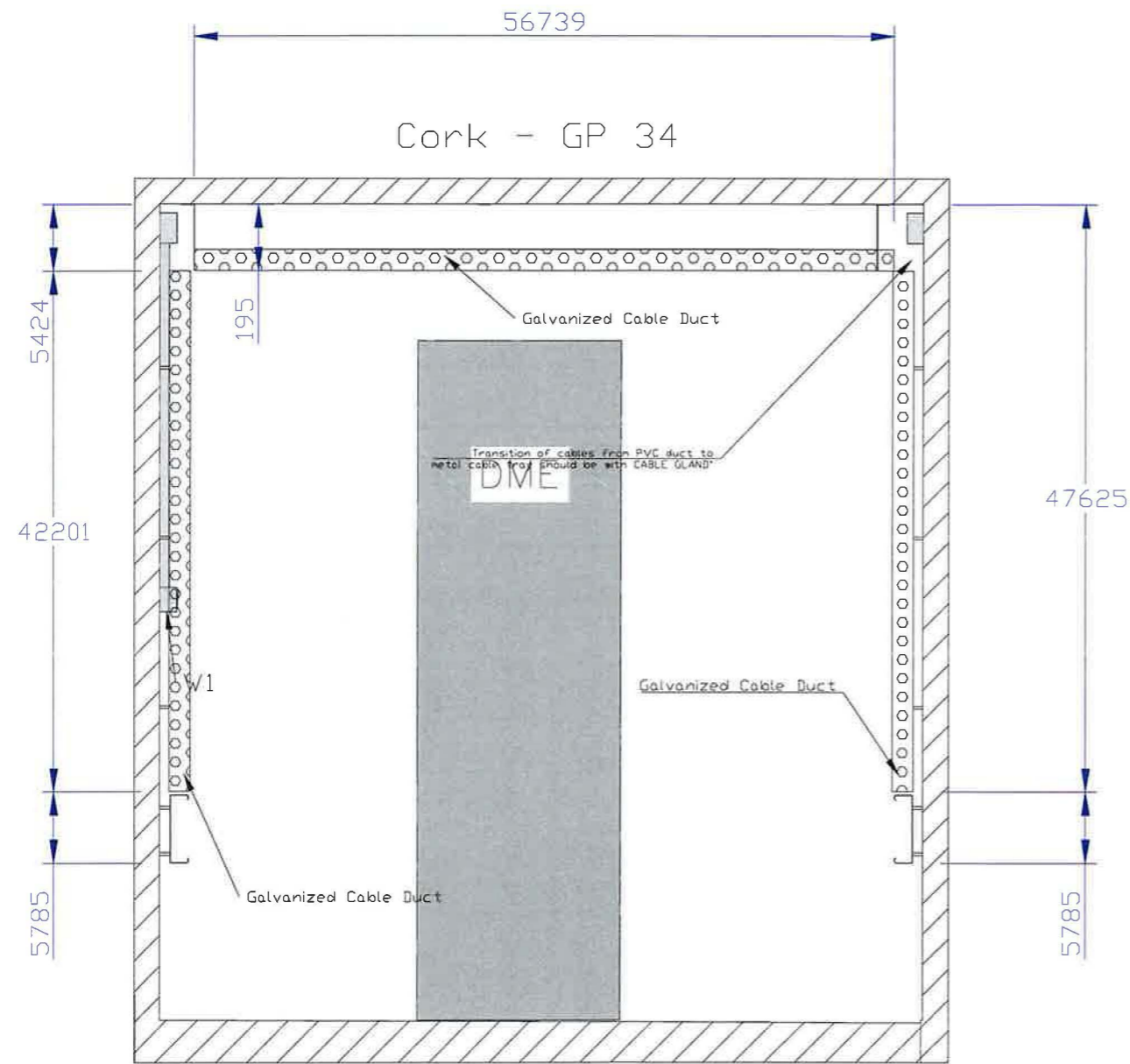
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Title		Project		
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Drawn by	Scale	Edition	Sheet	
I.A	n/a	13	4/10	

Section "D"

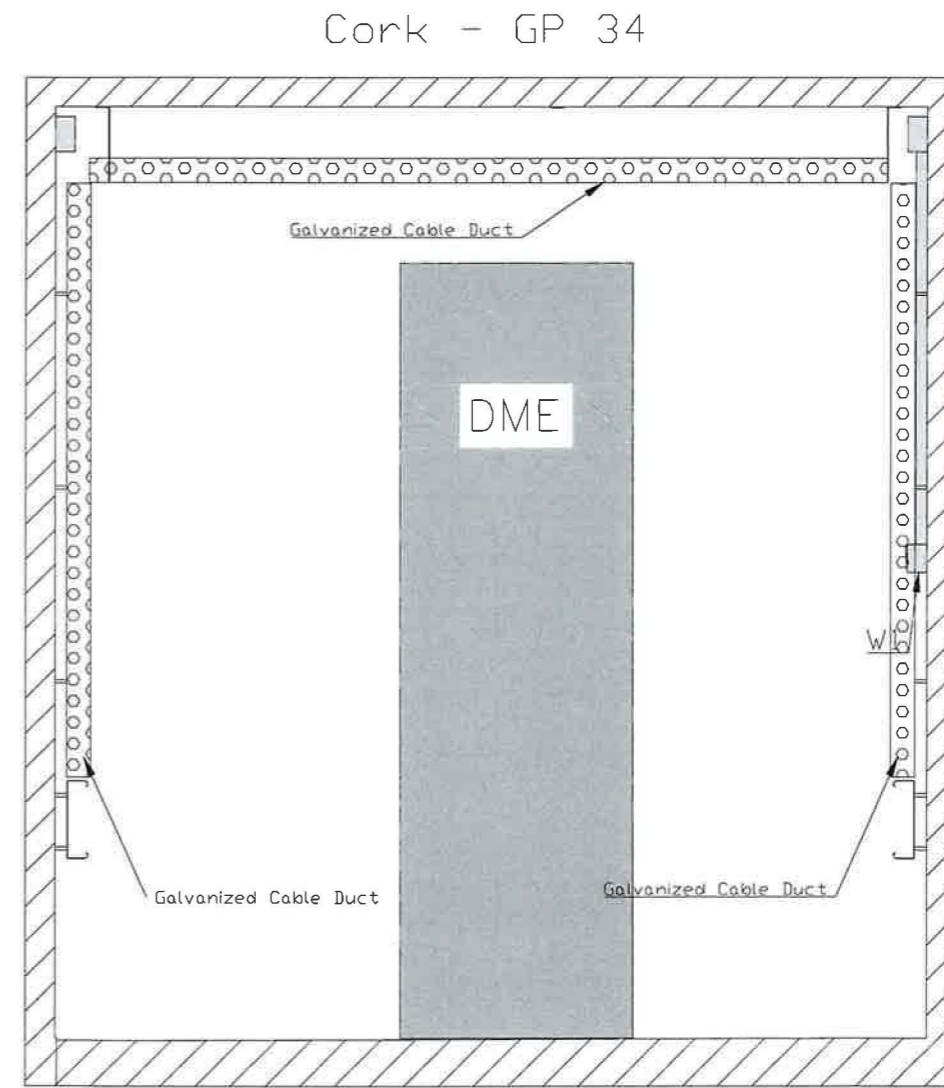


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Title		Project		
Section D		ILS Shelter - Cork		
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I.A	n/a	13	5/10	

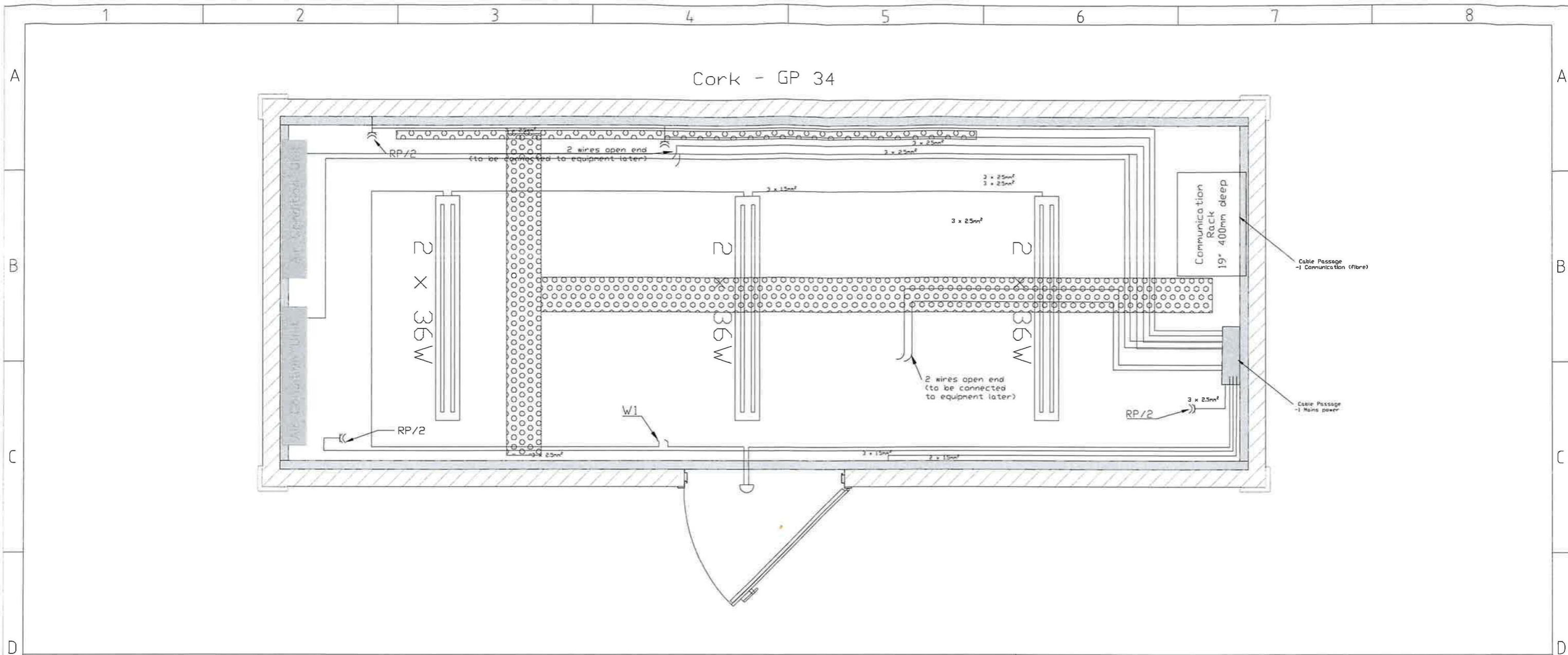
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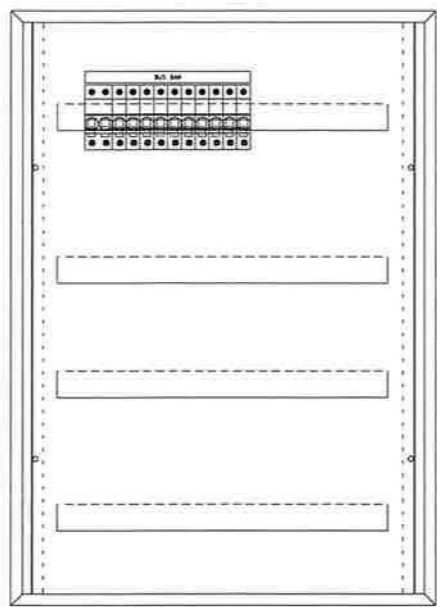
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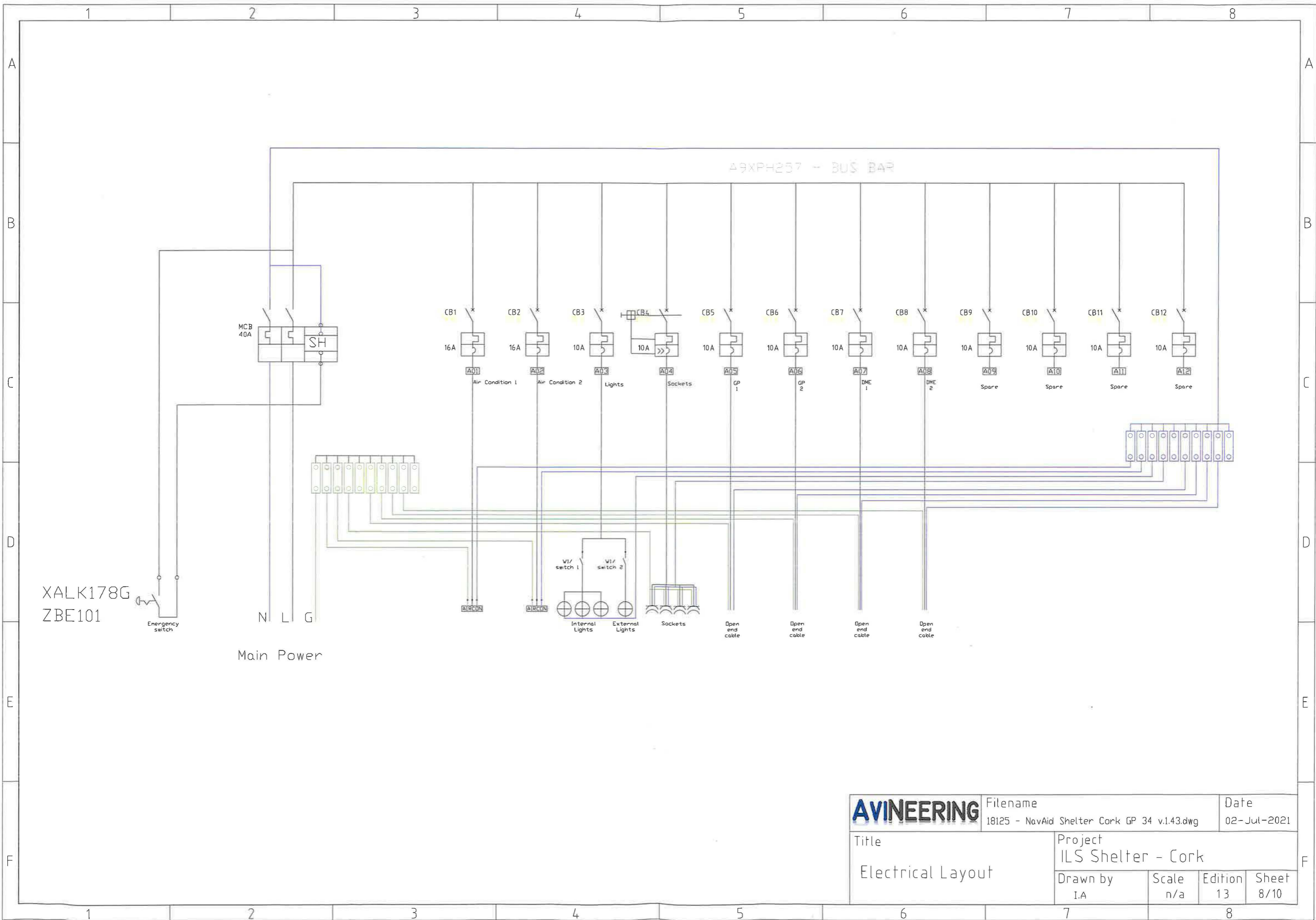
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	18125 - NavAid Shelter Cork GP 34 v.1.43.dwg	02-Jul-2021		
Title		Project		
Section E-F		ILS Shelter - Cork		
Drawn by	Scale	Edition	Sheet	
I.A	n/a	13	6/10	



Electrical Distribution Panel



AVINEERING Title Electrical Distr. System	Filename 18125 - NavAid Shelter Cork GP 34 v.1.43.dwg	Date 02-Jul-2021		
	Project ILS Shelter - Cork	Drawn by I.A	Scale n/a	Edition 1.3
		Sheet 7/10		



XALK178G
ZBE101

N L G
Main Power

A9XPH257 - BUS BAR

AVINEERING

Filename
18125 - NavAid Shelter Cork GP 34 v.143.dwg

Date
02-Jul-2021

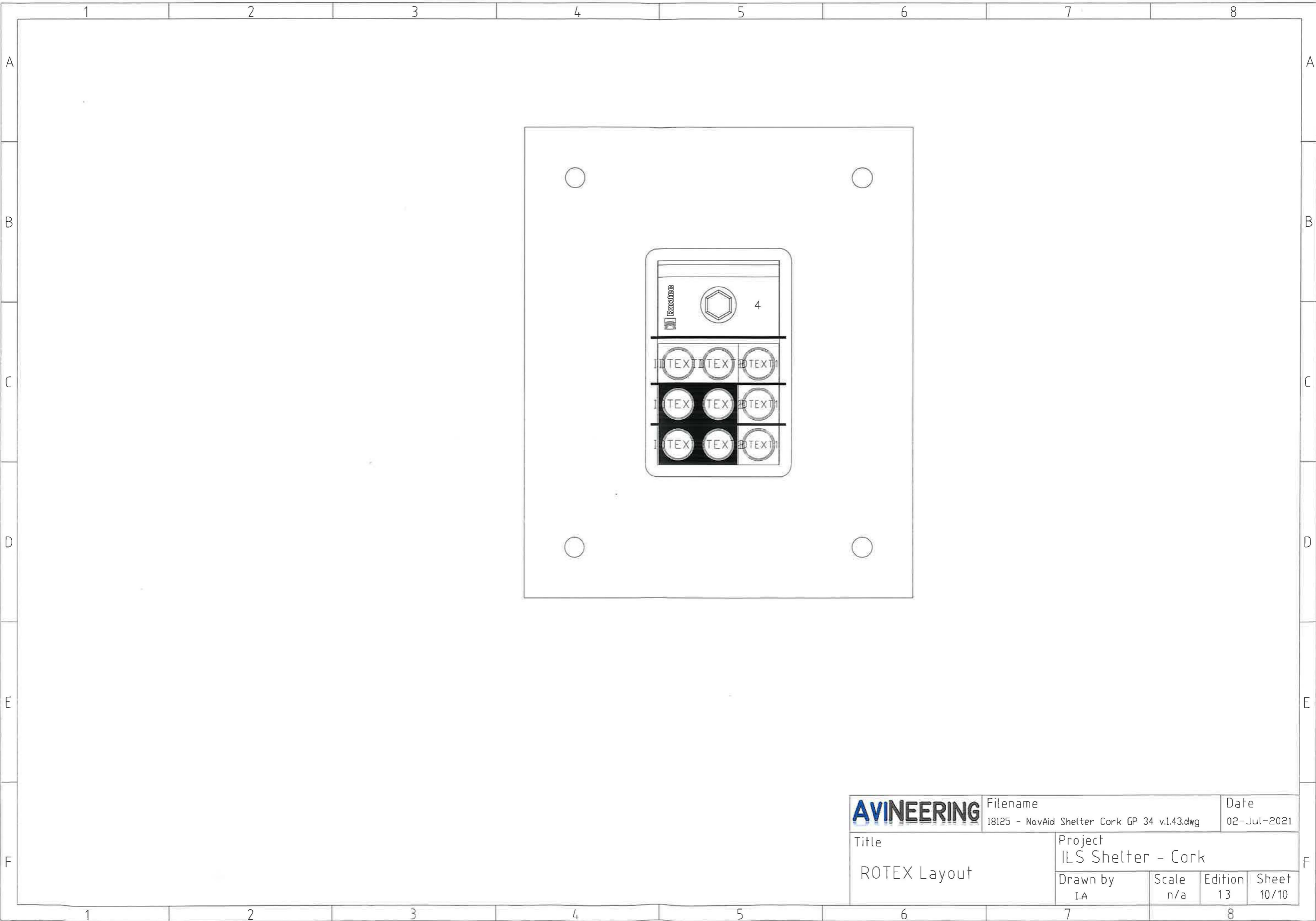
Title
Electrical Layout

Project
ILS Shelter - Cork

Drawn by I.A	Scale n/a	Edition 13	Sheet 8/10
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List of materials				
Item	Description	Manufacturer	PNR	Volume
Container Installation				
1	Cable tray, wire mesh type. 200mm wide	n/a		Approx 11 m
2	Roof light - LED type with diffusers	n/a		3 pcs
3	Exteriour light LED with movement sensor	n/a		1 pcs
4	Internal ground bar (M8 threaded connection)	n/a		1 pcs
5	Light Switch for internal and external light	Schneider Electric	n/a	1 pcs
6	Power Socket (double EU -> type F)	Schneider Electric or simmilar	n/a	3 pcs
7	Cable 2.5mm2			
8	Emergency Stop button	Schneider Electric	XALK178G	1 pcs
9	PVC Cable ducts 50x90mm			23 m
10	PVC Cable ducts 120x80mm			2.3m
11	PCV Cable duct 16x32mm			4 m
12	19 inch communication rack 12U (621mm x 600mm x 400mm)	RS online 802-0336 or similar	802-0336 or similar	1 pcs
13	Cable wall/floor adapter	Avineering design	Drawing 18126	7 pcs
14	ROXTEC wall adapter	ROXTEC	4 cables	1
15	Air Condition	Mitshubishi	3.5KW	2
Distribution Board				
1	Cabinet	Schneider Electric	8004	1
2	Multi 9 - C60N - MCB - 4P - 40 A - C Curve - 415 V - 10 kA	Schneider Electric	A9P24440	1
3	Shunt connected to main circuit breaker and stop button	Schneider Electric	A9A26476	1
4	Miniature circuit-breaker, Acti9 1P, MCB 16A	Schneider Electric		2
5	Miniature circuit-breaker, Acti9 1P, MCB 10A	Schneider Electric		8
6	Surge Arrestor IPRF1 12,5R	Schneider Electric	A9L16634	1
7	2 CABLE TIE SUPPORT W600 PRISMA G	Schneider Electric	08867	1
8	A9XPH257 - BUS BAR	Schneider Electric	A9XPH257	1

AVINEERING	Filename	Date	
	18125 - NavAid Shelter Cork GP 34 v.1.43.dwg	02-Jul-2021	
Title		Project	
List of Materials		ILS Shelter - Cork	
Drawn by	Scale	Edition	Sheet
I.A	n/a	13	9/10



AVINEERING

Filename
18125 - NavAid Shelter Cork GP 34 v.1.43.dwg

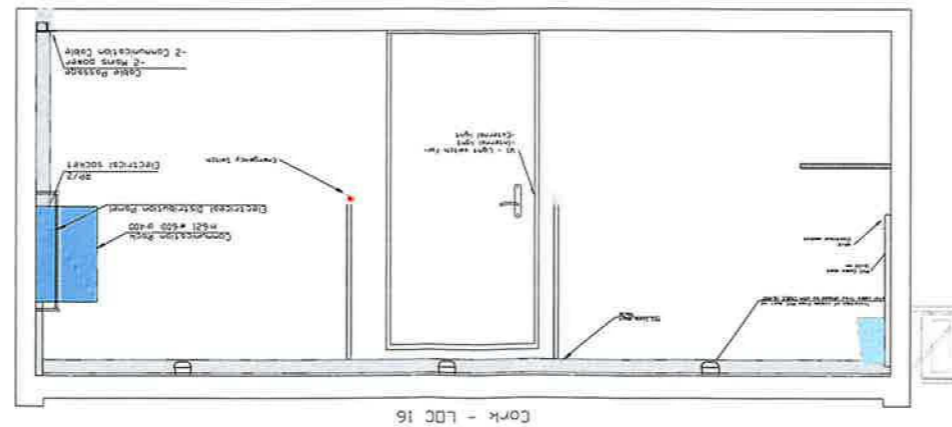
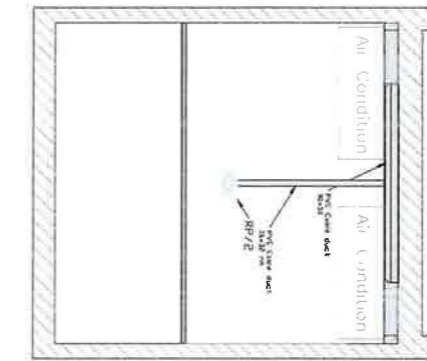
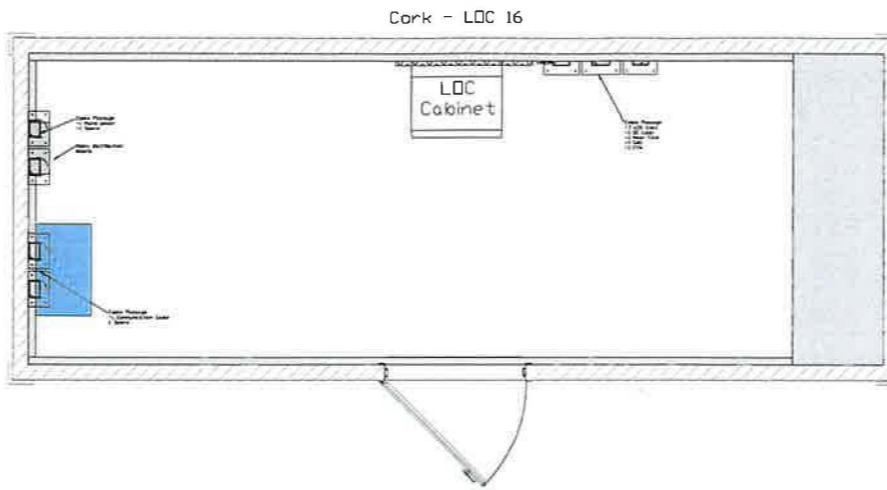
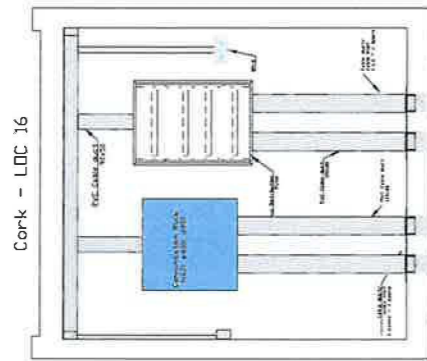
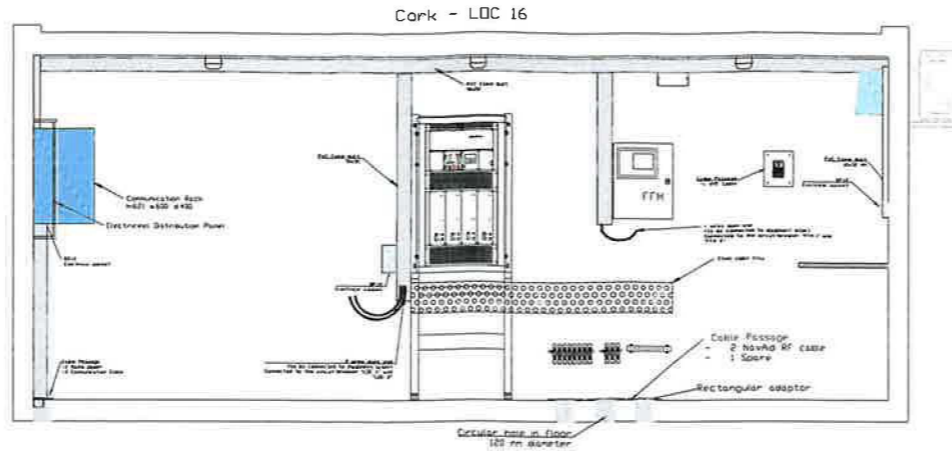
Date
02-Jul-2021

Title
ROTEX Layout

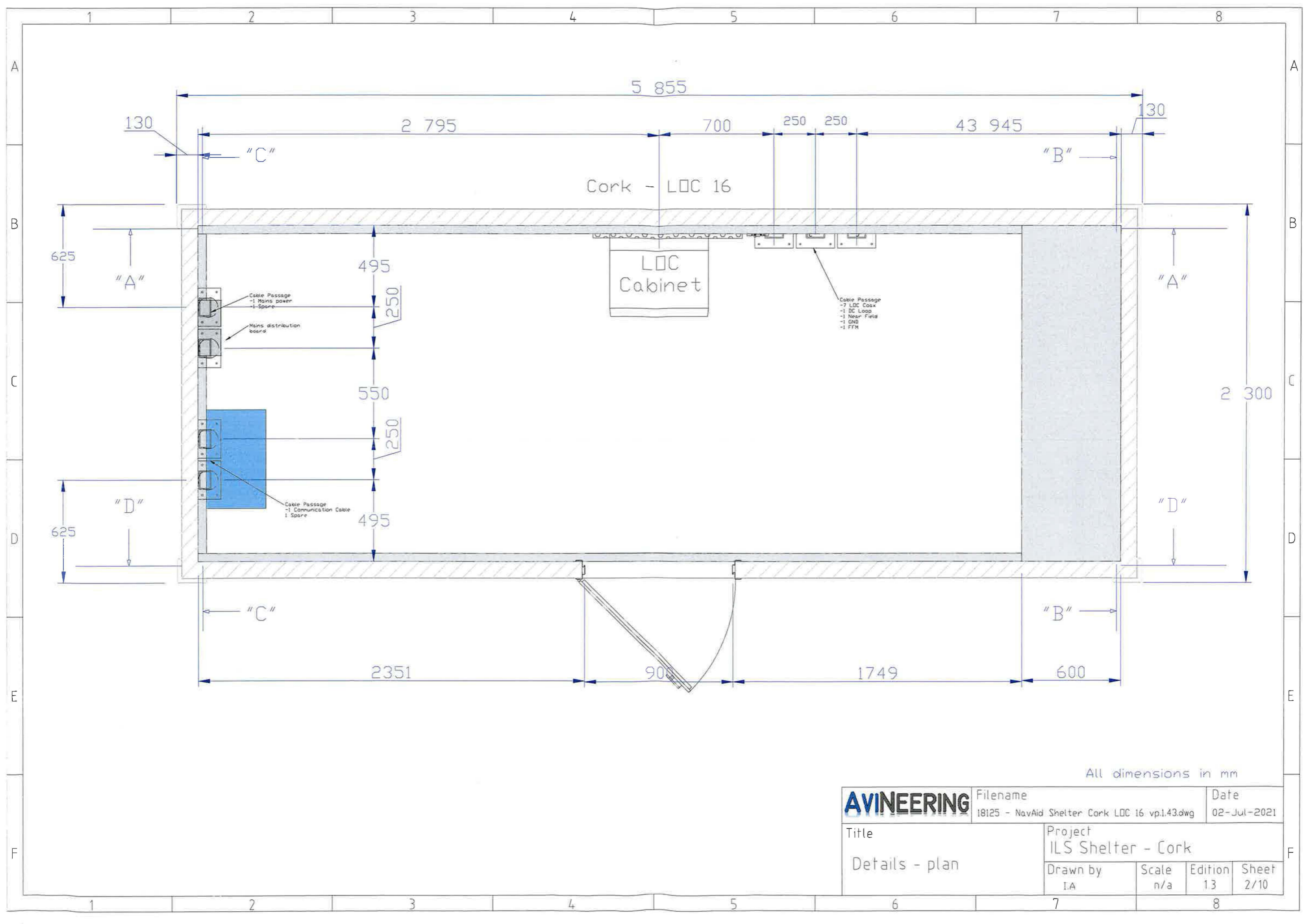
Project
ILS Shelter - Cork

Drawn by I.A	Scale n/a	Edition 13	Sheet 10/10
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CONTAINER GENERAL CONFIGURATION	
Destination	Cork, Ireland
Container ID	LOC 16
Quantity in order	4
Forklift Pockets	NO
Foundation fasteners	YES
Door locking mechanism	YES - hold open
Air-condition	2 pcs
Air-condition installation	Frame on top outside
Type of cable sealing	Square adapter and ROXTEC
Type of transport	Truck
Dimension exterior (lxwxh)	5.8 x 2.3 x 2.6m
Special condition	



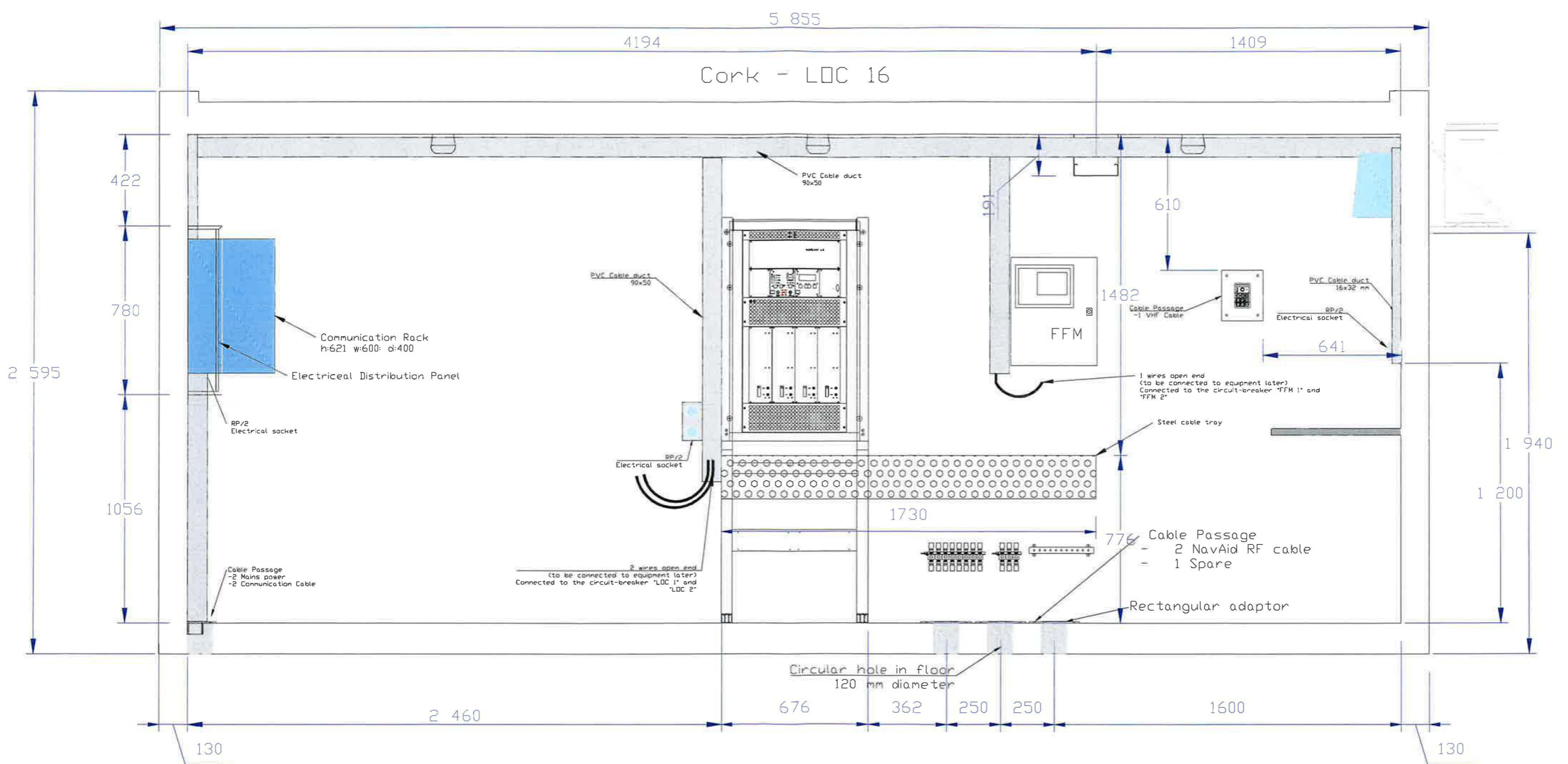
AVINEERING	Filename	Date		
	18125 - NavAid Shelter Cork LOC 16 vp.1.43.dwg	02-Jul-2021		
Title		Project		
General Layout		ILS Shelter - Cork		
Drawn by	Scale	Edition	Sheet	
I.A	n/a	13	1/10	



All dimensions in mm

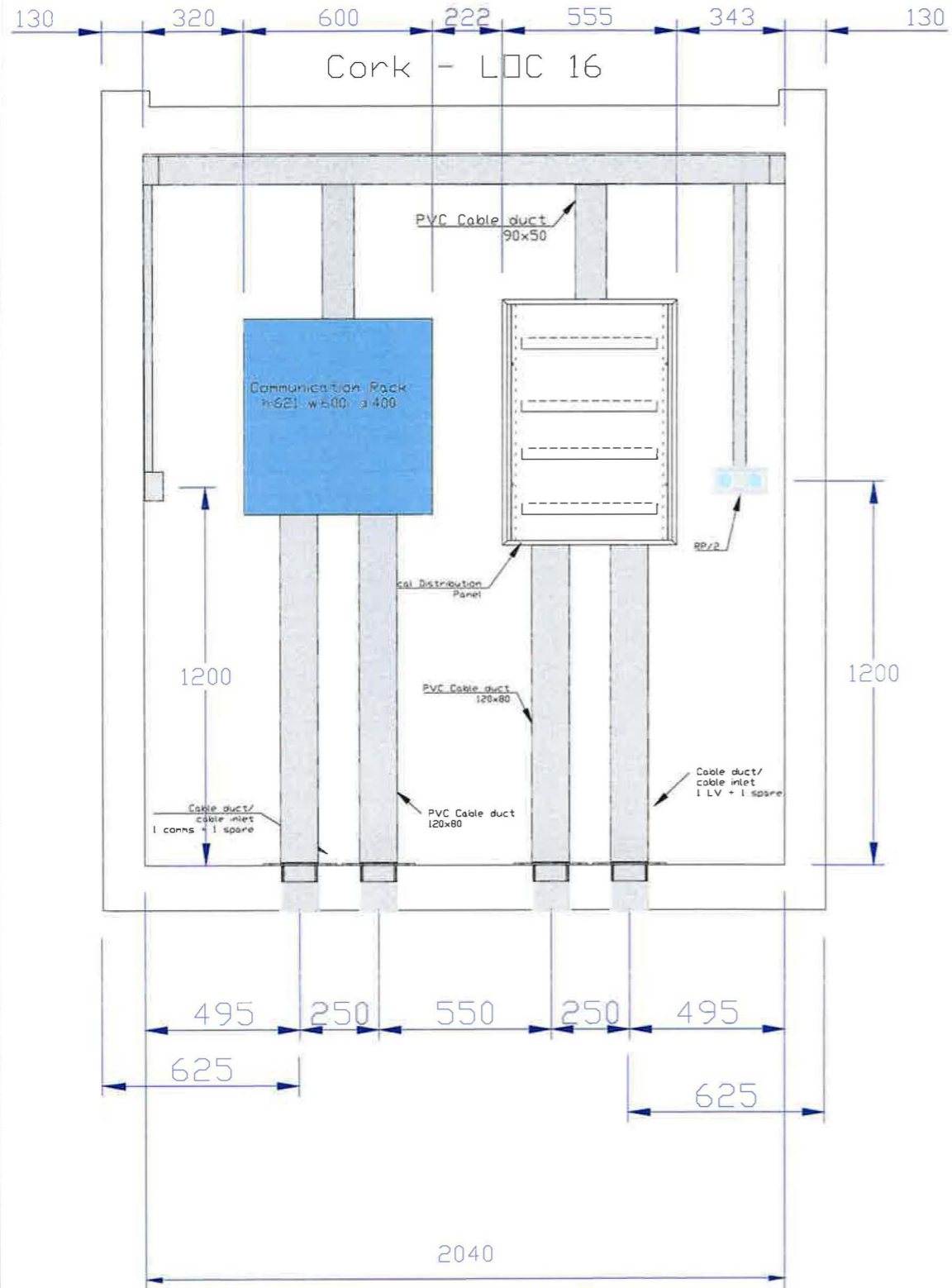
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Title		Project		
Details - plan		ILS Shelter - Cork		
Drawn by	Scale	Edition	Sheet	
IA	n/a	13	2/10	

Section "A"

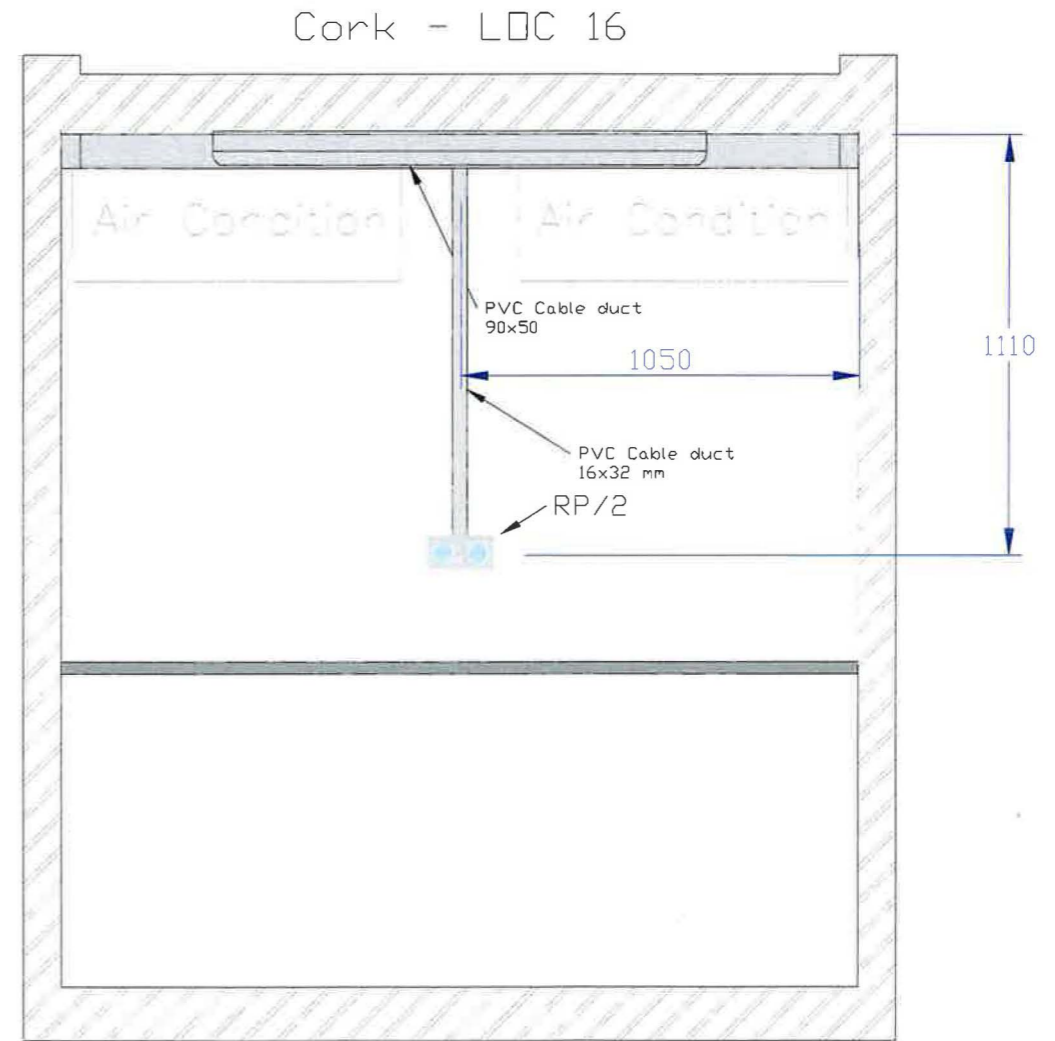


AVINEERING	Filename	Date		
	18125 - NavAid Shelter Cork LOC 16 vp.143.dwg	02-Jul-2021		
Title		Project		
Section A		ILS Shelter - Cork		
Drawn by	Scale	Edition	Sheet	
I.A	n/a	13	3/10	

Section "B"

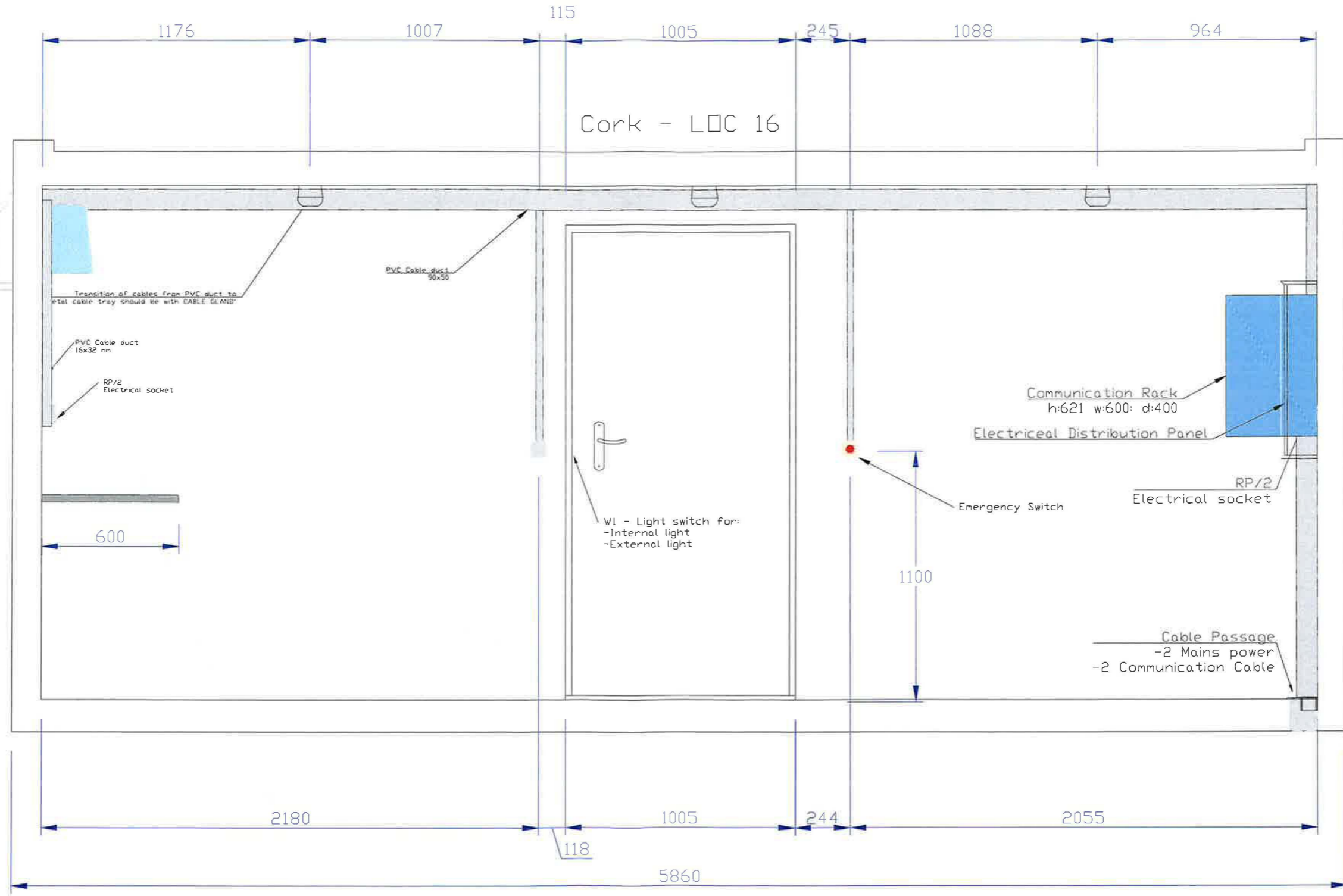


Section "C"



AVINEERING	Filename	Date	
	18125 - NavAid Shelter Cork LOC 16 vp.143.dwg	02-Jul-2021	
Title		Project	
Section B-C		ILS Shelter - Cork	
Drawn by	Scale	Edition	Sheet
I.A	n/a	13	4/10

Section "D"

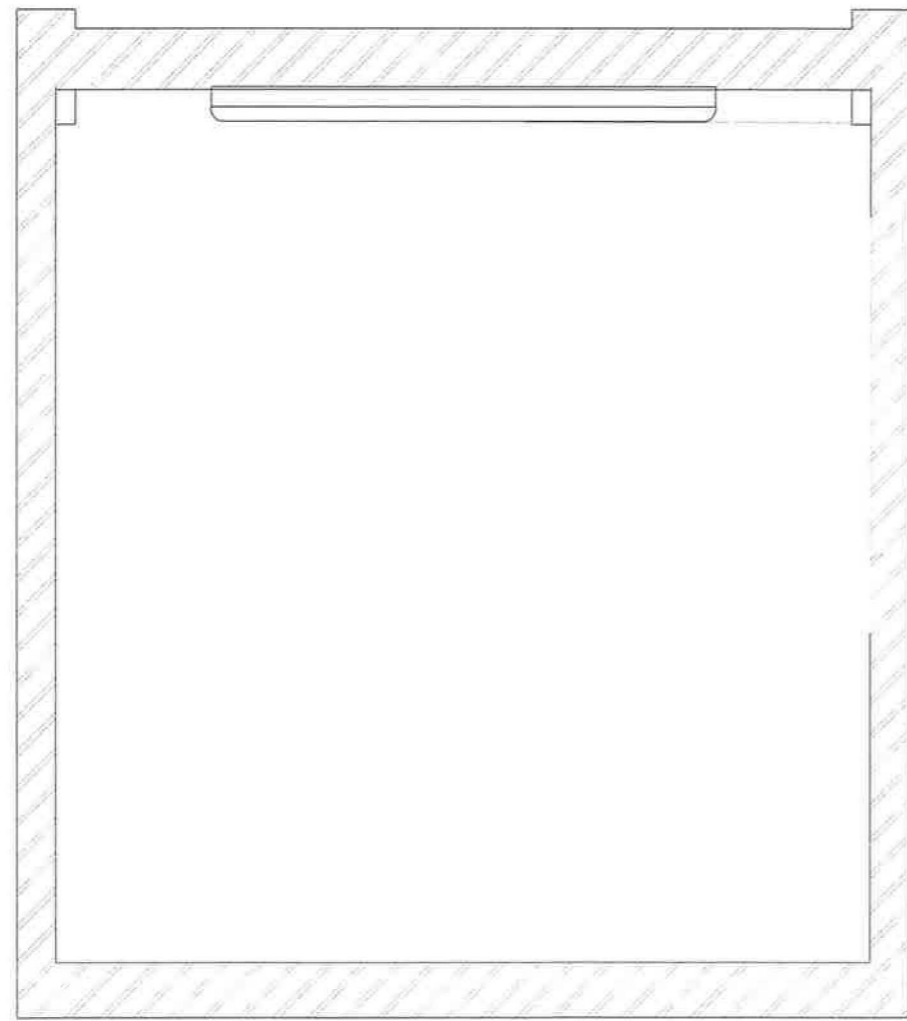


AVINEERING

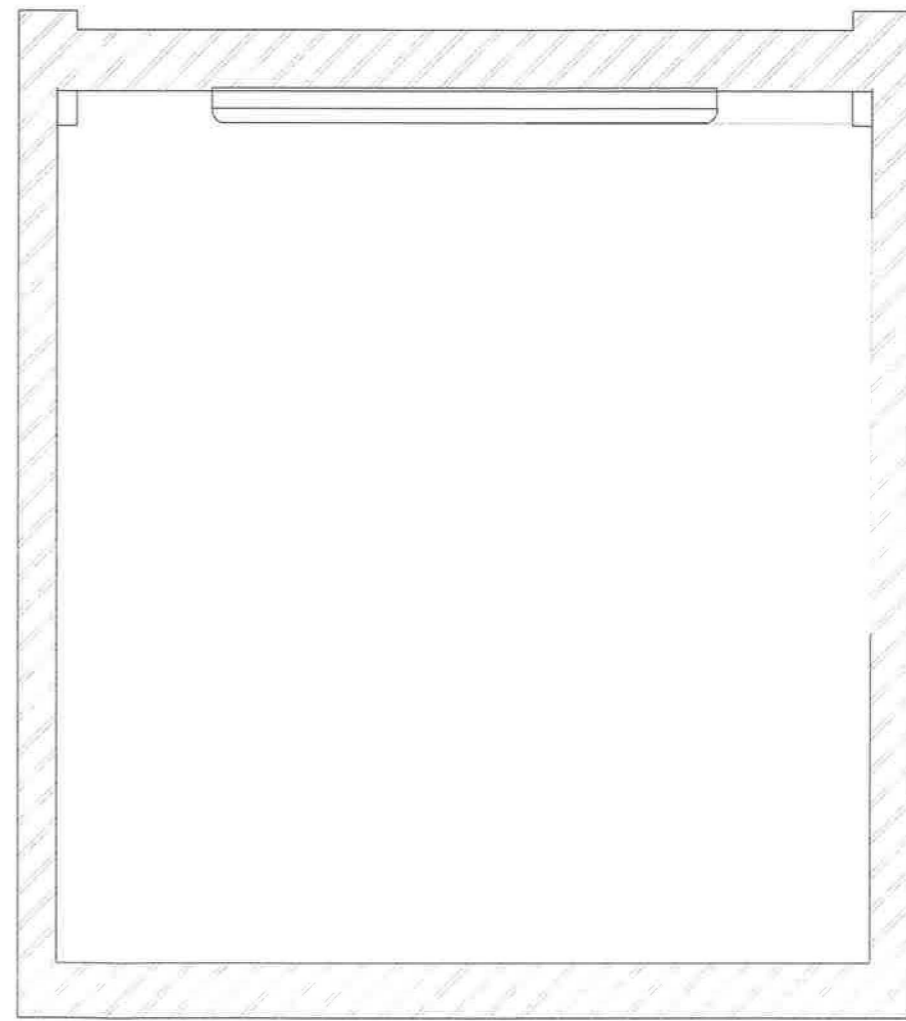
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Date: 02-Jul-2021

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Drawn by: IA	Scale: n/a	Edition: 13	Sheet: 5/10	

Section "E"
(only GP)

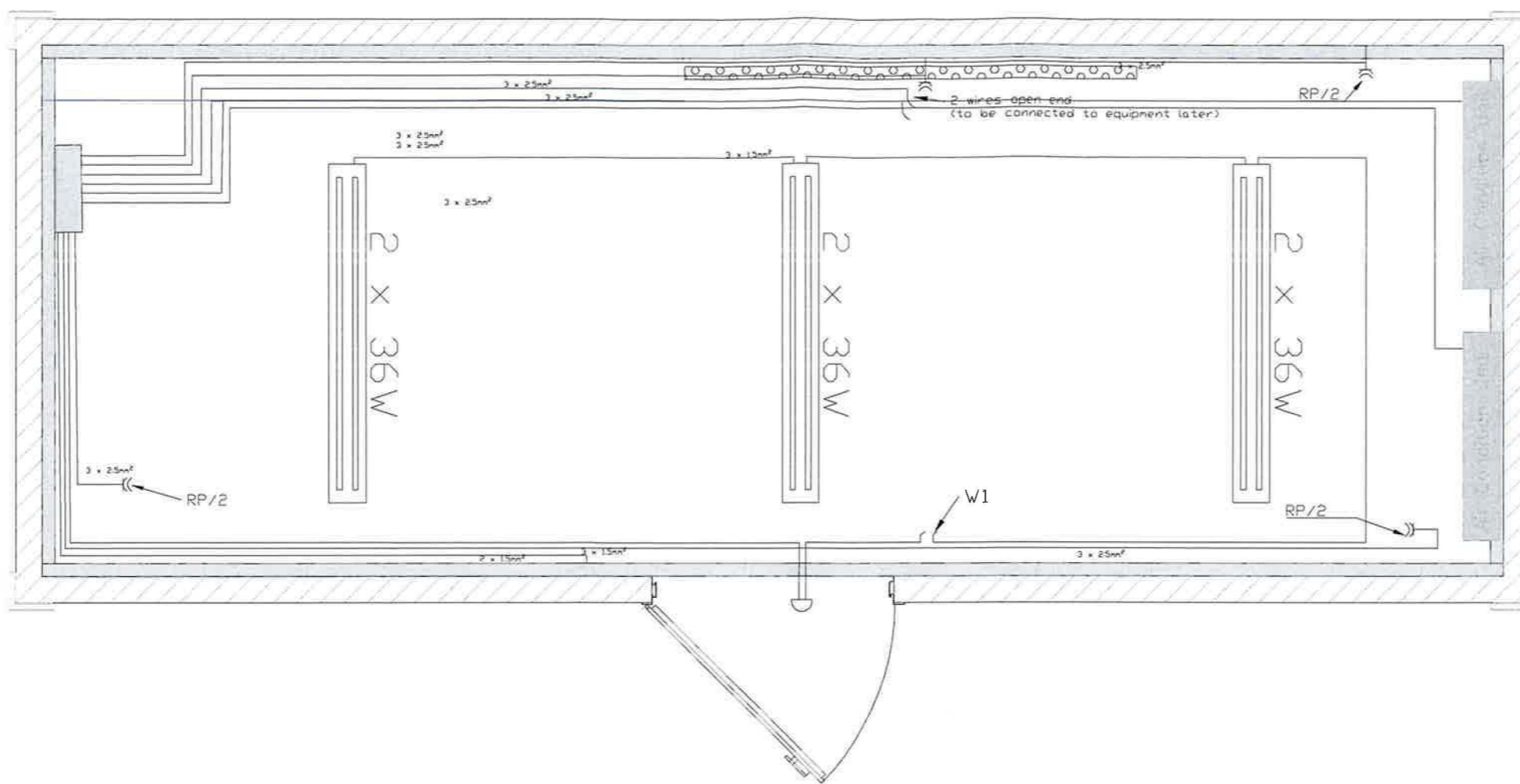


Section "F"
(only GP)

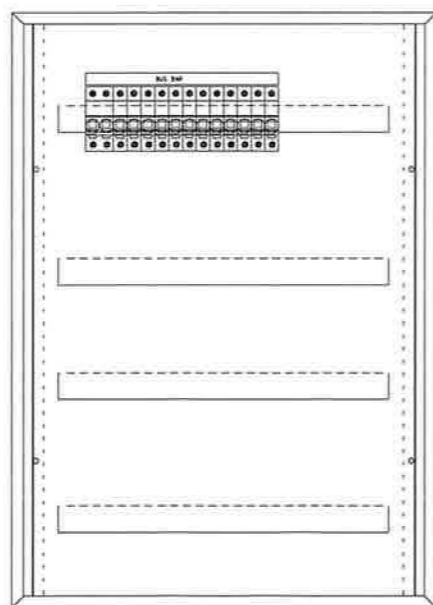


AVINEERING	Filename	Date	
	18125 - NavAid Shelter Cork LOC 16 vp.143.dwg	02-Jul-2021	
Title		Project	
Section E-F		ILS Shelter - Cork	
Drawn by	Scale	Edition	Sheet
IA	n/a	13	6/10

Cork - LOC 16



Electrical Distribution Panel



AVINEERING

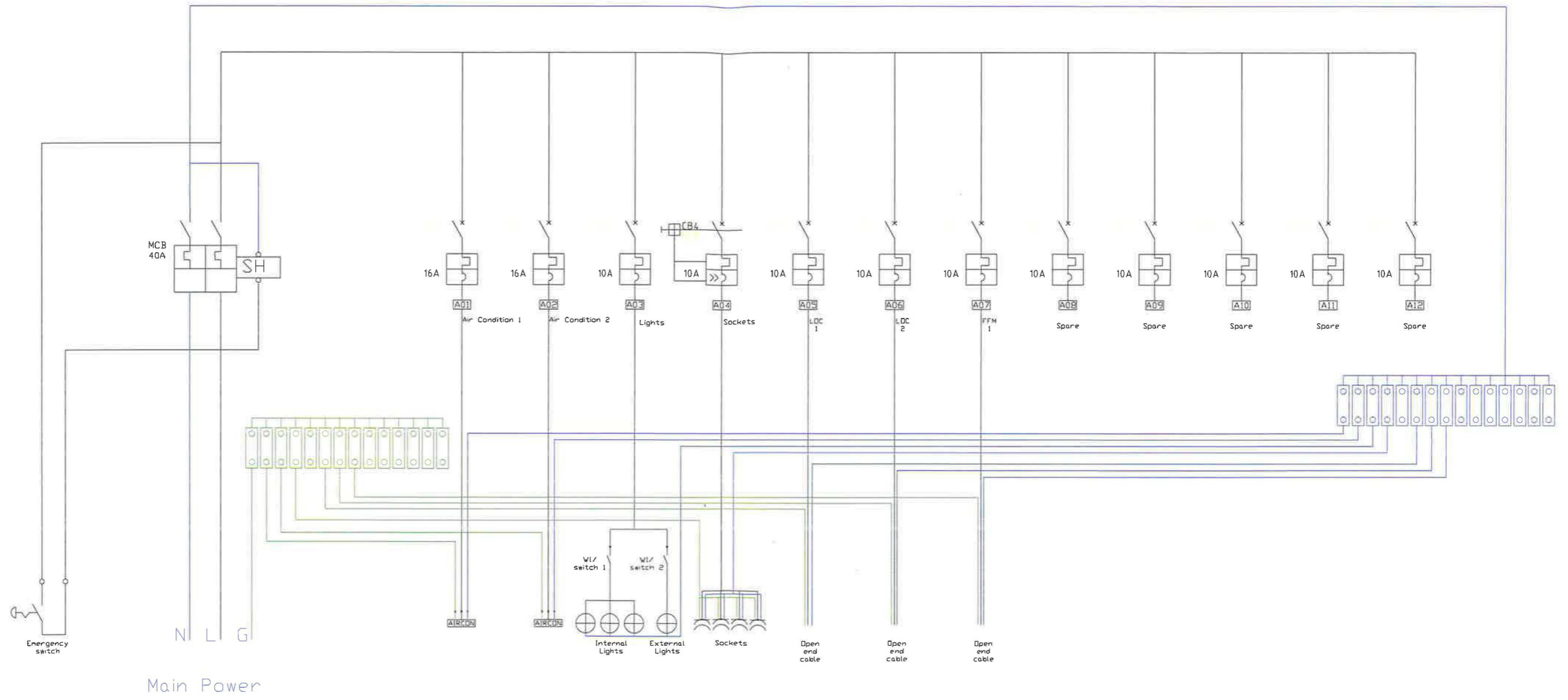
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18125 - NavAid Shelter Cork LOC 16 - vp.1.43.dwg

Date
02-Jul-2021

Title
Electrical Distr. System

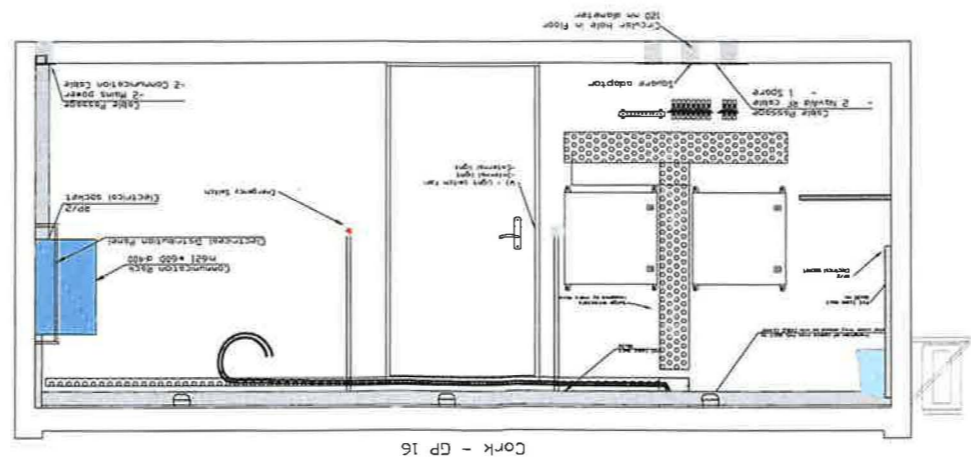
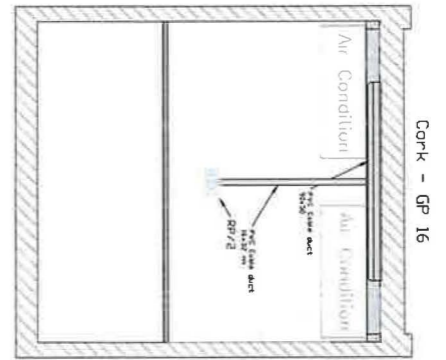
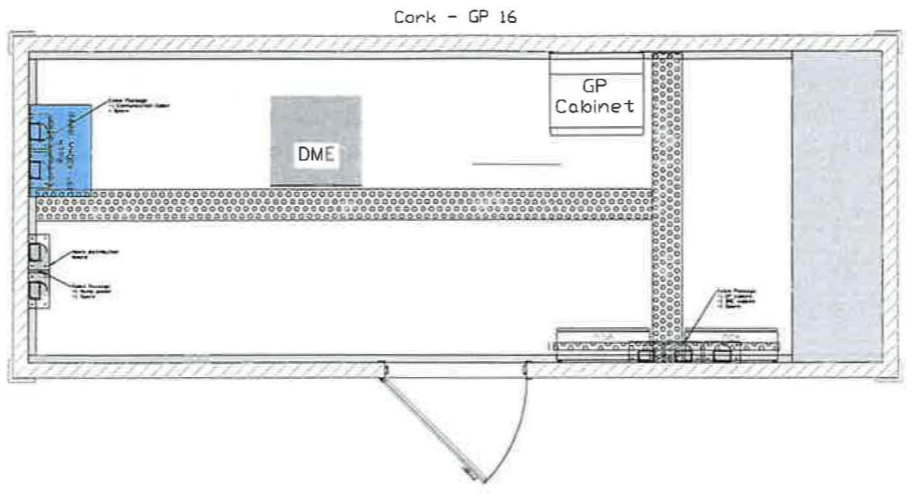
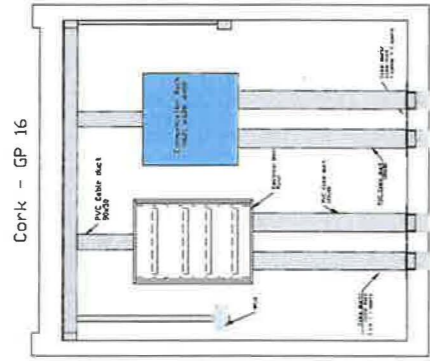
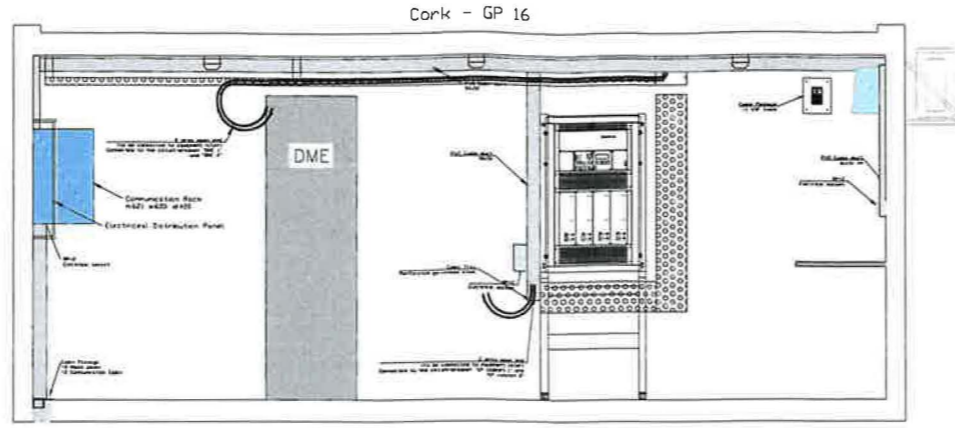
Project
ILS Shelter - Cork

Drawn by 1A	Scale n/a	Edition 13	Sheet 7/10
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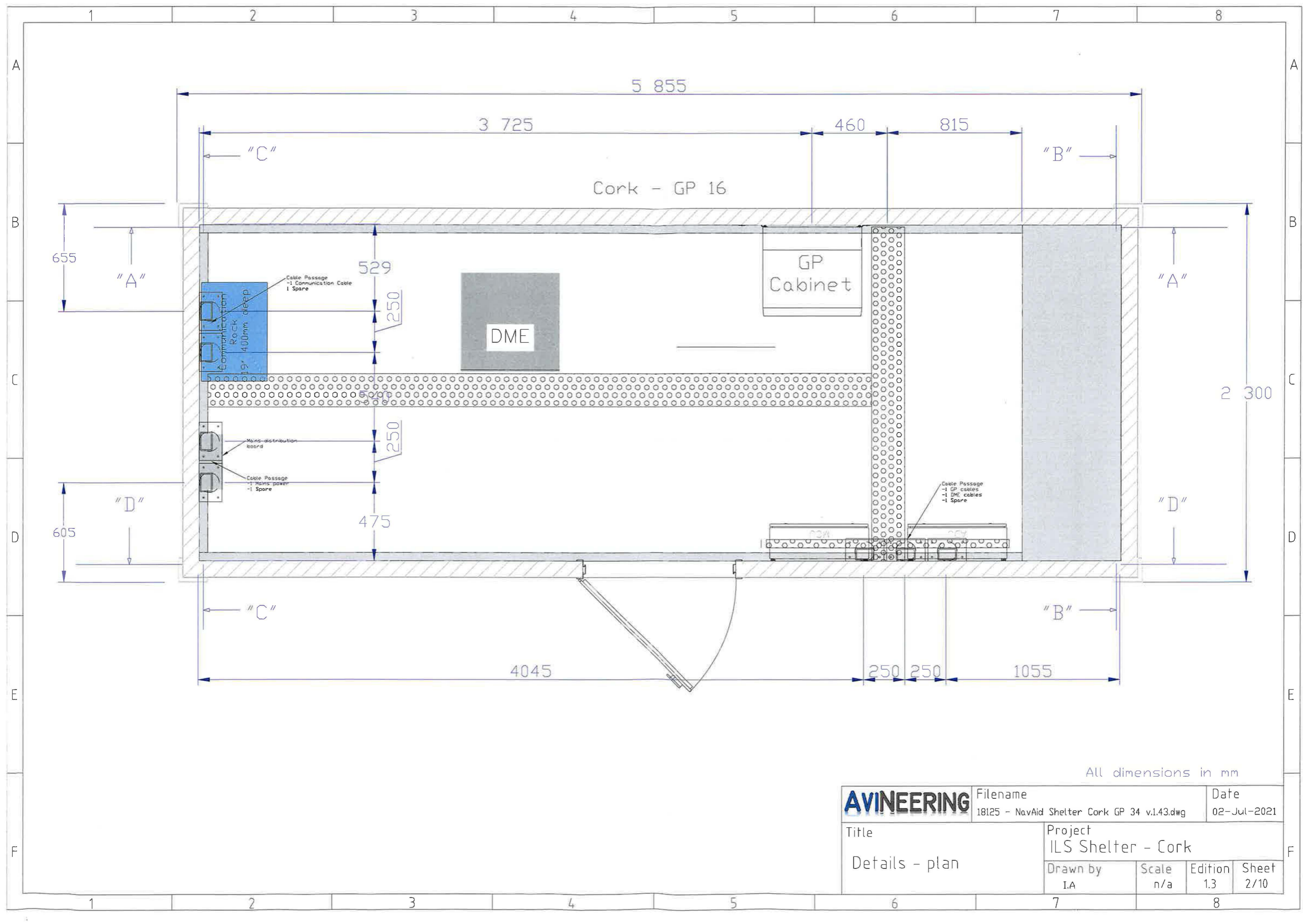


AVINEERING Title Electrical Layout	Filename 18125 - NavAid Shelter Cork LDC 16 vp.1.43.dwg	Date 02-Jul-2021			
	Project ILS Shelter - Cork		Drawn by I.A	Scale n/a	Edition 13

CONTAINER GENERAL CONFIGURATION	
Destination	Cork, Ireland
Container ID	GP 16
Quantity in order	4
Forklift Pockets	NO
Foundation fasteners	YES
Door locking mechanism	YES - hold open
Air-condition	2 pcs
Air-condition installation	Frame on top outside
Type of cable sealing	Square adapter and ROXTEC
Type of transport	Truck
Dimension exterior (lxwxh)	5.8 x 2.3 x 2.6m
Special condition	



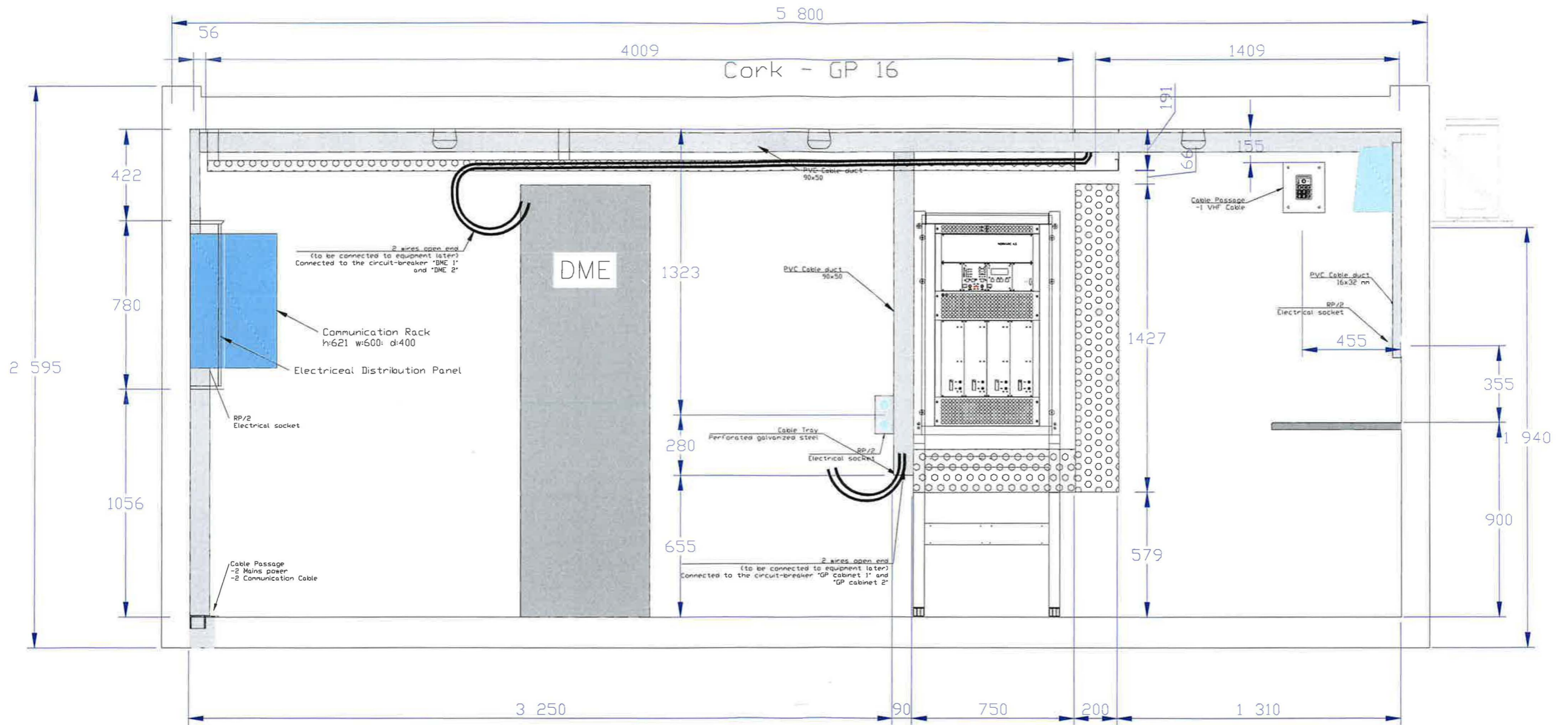
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	18125 - NavAid Shelter Cork GP 34 v.1.43.dwg	02-Jul-2021		
Title	Project		Date	
General Layout	ILS Shelter - Cork		02-Jul-2021	
	Drawn by	Scale	Edition	Sheet
	I.A	n/a	13	1/10



All dimensions in mm

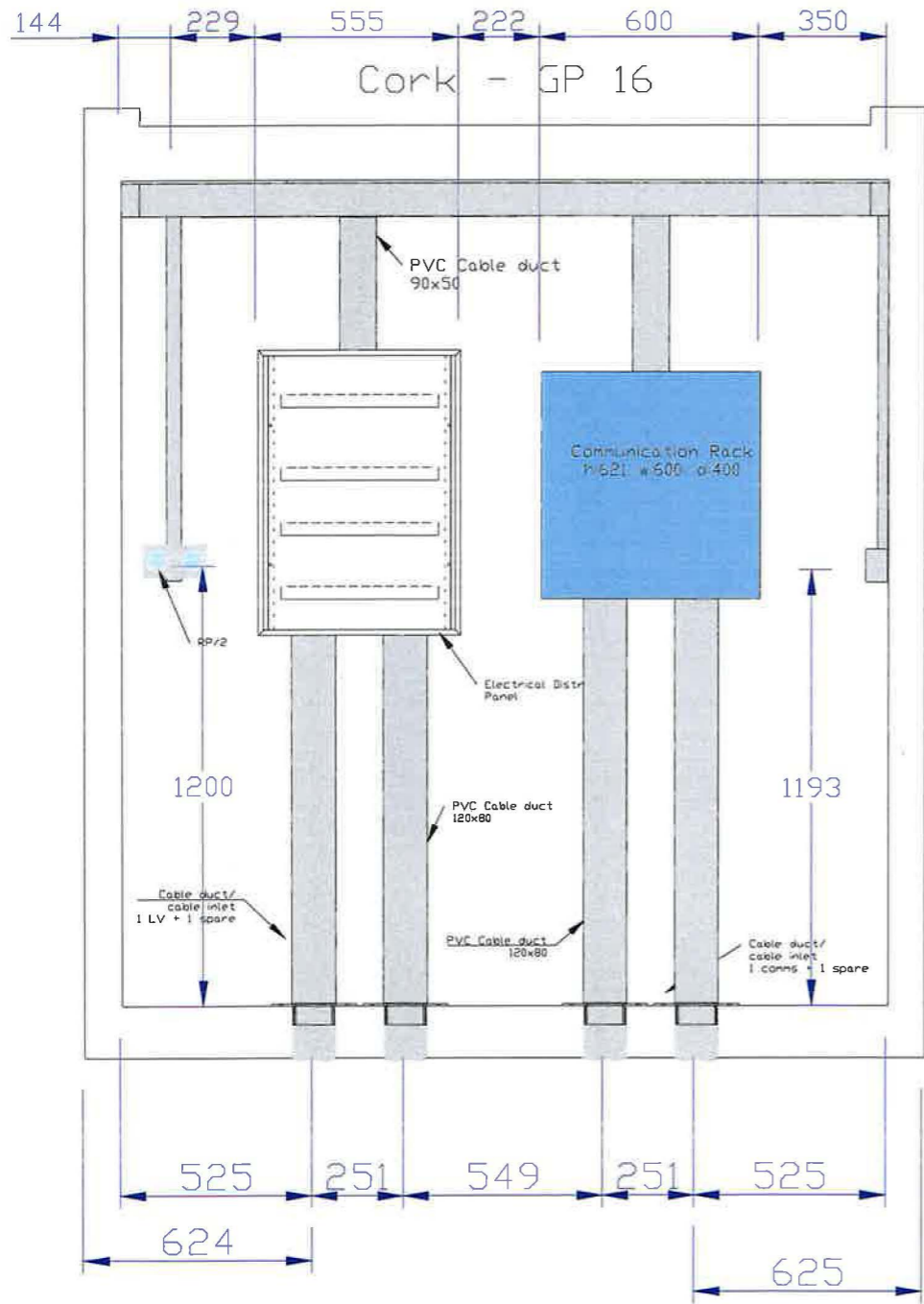
AVINEERING	Filename	Date		
	18125 - NavAid Shelter Cork GP 34 v.143.dwg	02-Jul-2021		
Title		Project		
Details - plan		ILS Shelter - Cork		
Drawn by	Scale	Edition	Sheet	
IA	n/a	1.3	2/10	

Section "A"

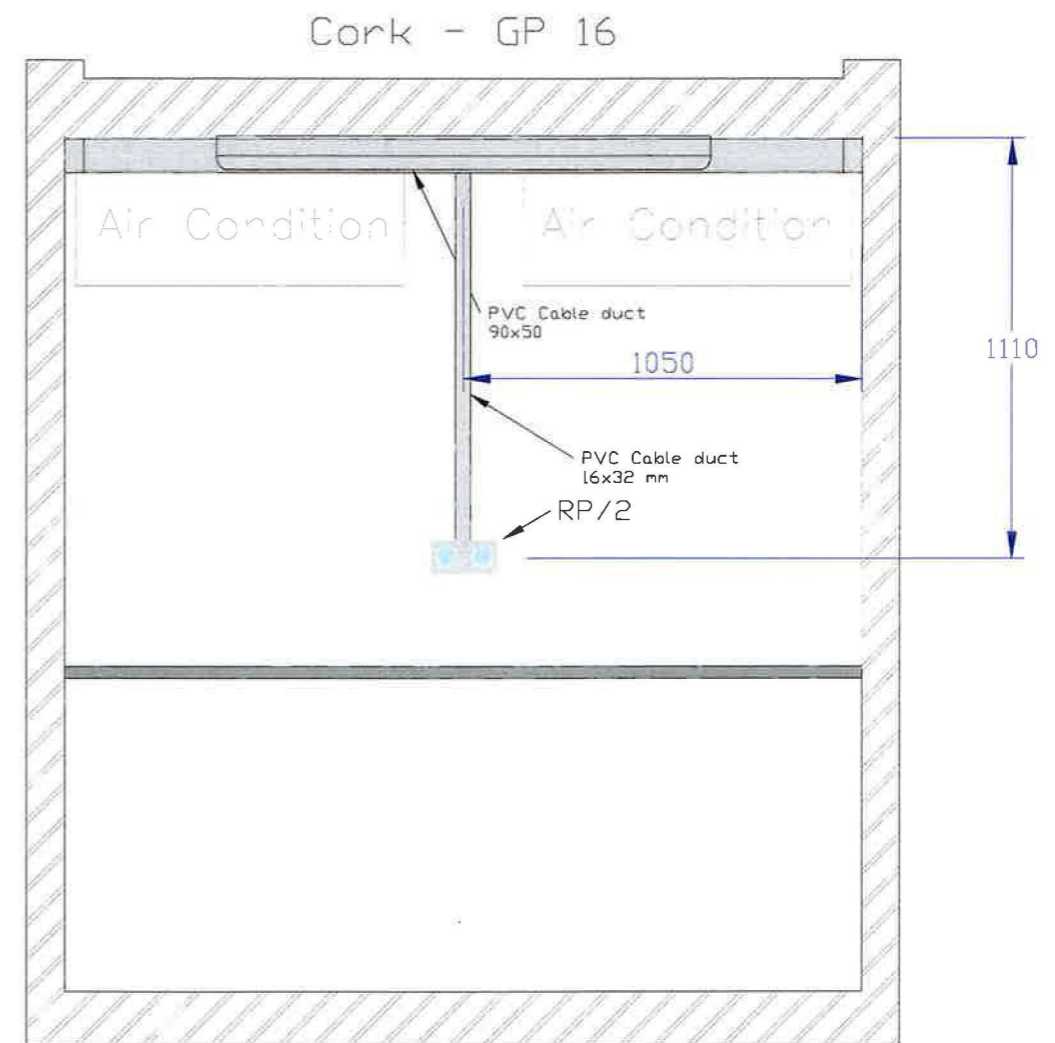


AVINEERING	Filename	Date		
	18125 - NavAid Shelter Cork GP 34 v.1.43.dwg	02-Jul-2021		
Title		Project		
Section A		ILS Shelter - Cork		
Drawn by	Scale	Edition	Sheet	
I.A	n/a	13	3/10	

Section "B"

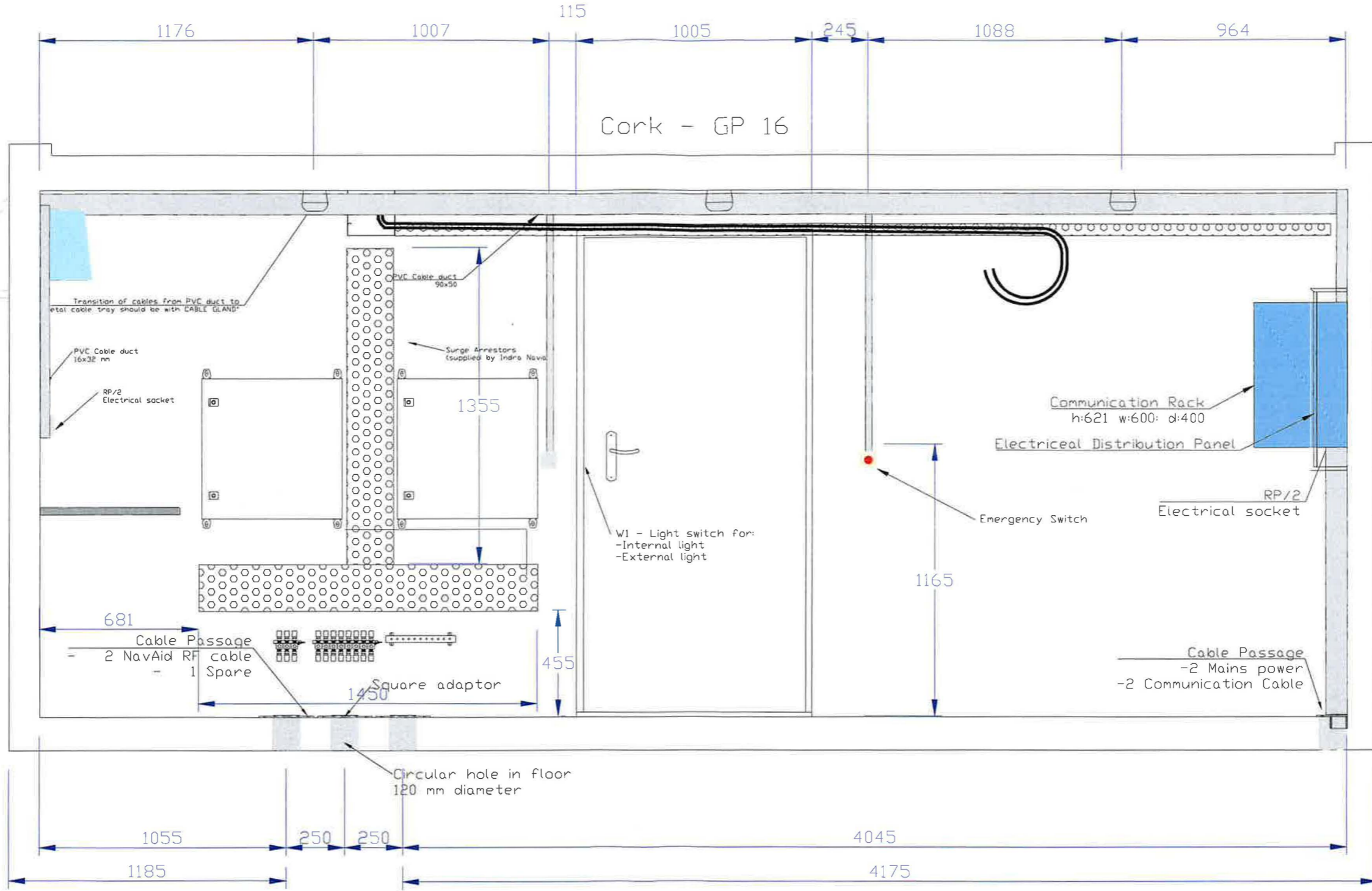


Section "C"



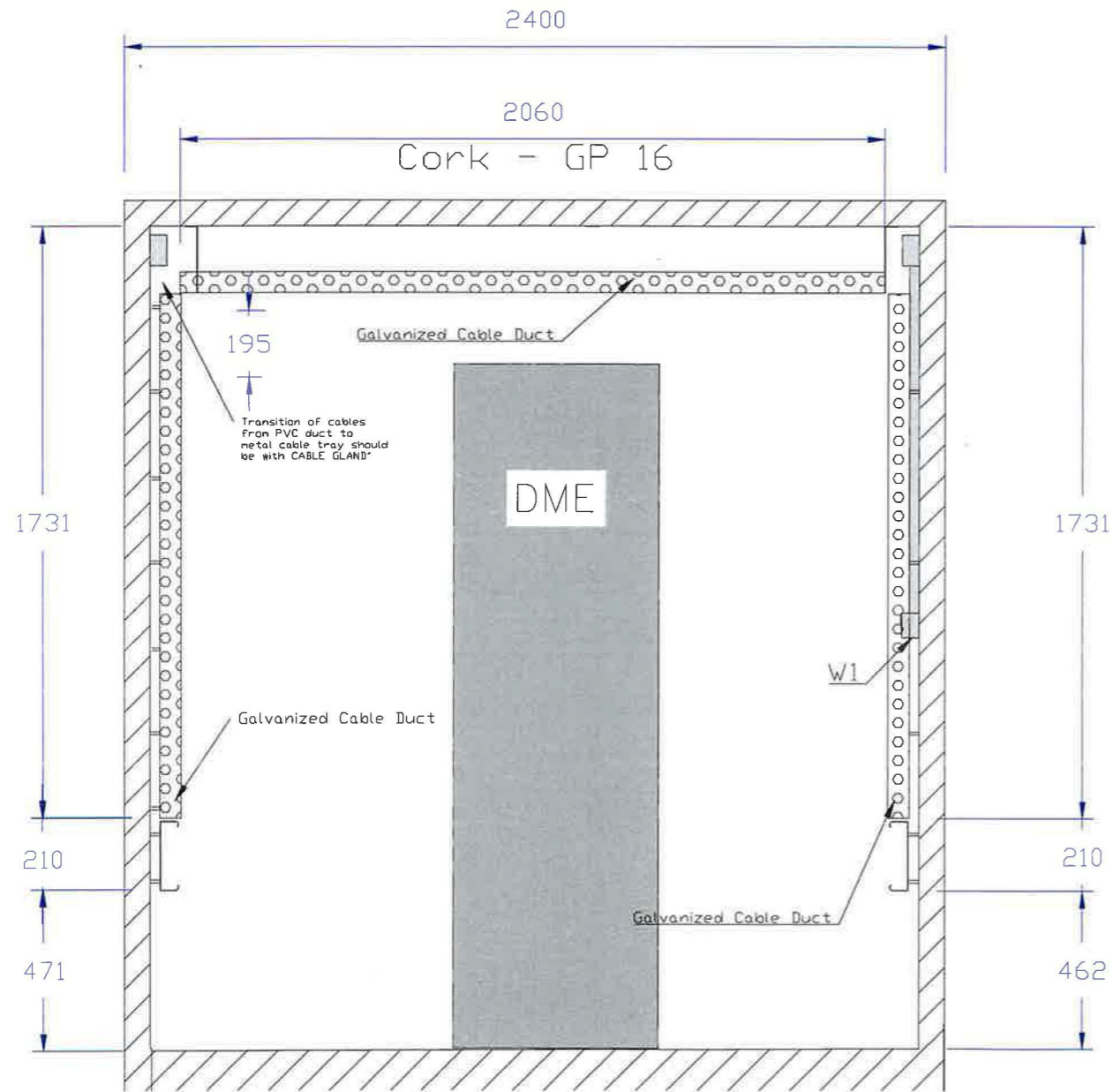
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	Project ILS Shelter - Cork		Drawn by I.A	Scale n/a	Edition 13

Section "D"

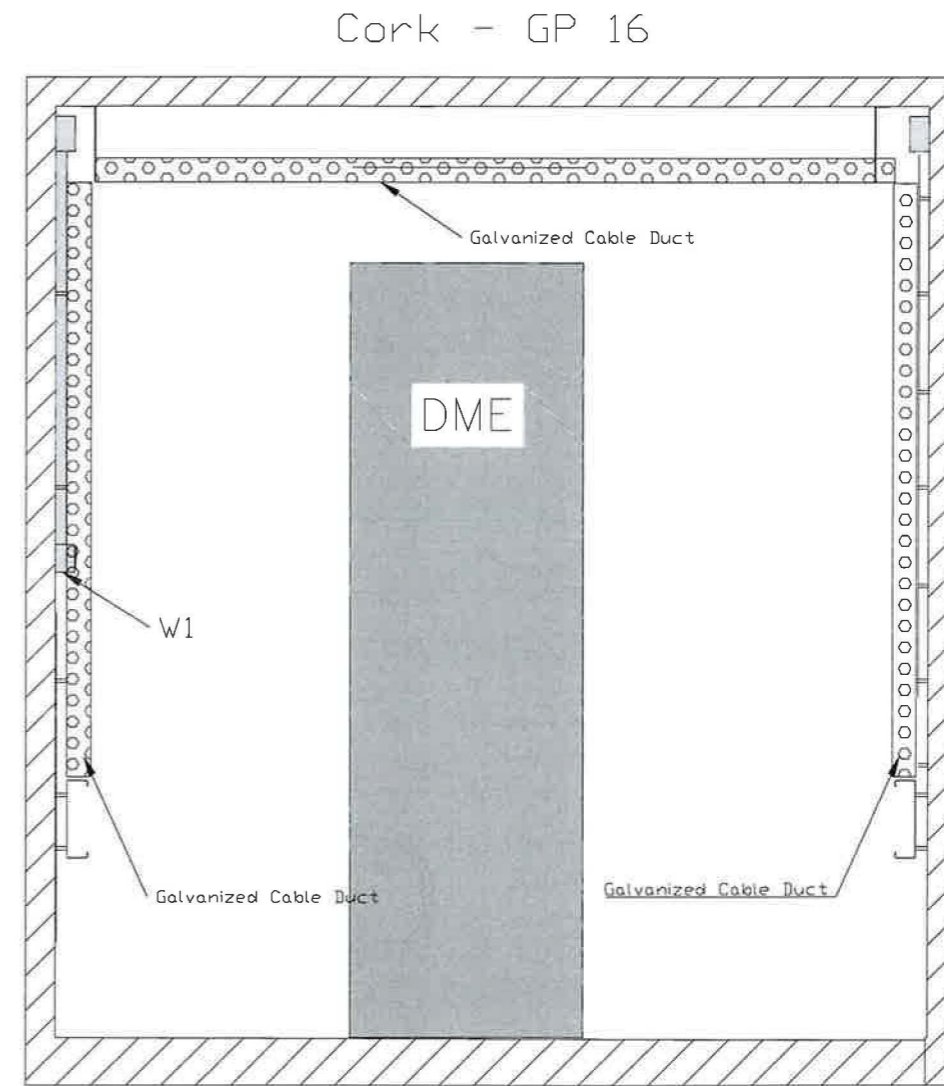


AVINEERING	Filename	Date	
	18125 - NavAid Shelter Cork GP 34 v.1.43.dwg	02-Jul-2021	
Title		Project	
Section D		ILS Shelter - Cork	
Drawn by	Scale	Edition	Sheet
I.A	n/a	13	5/10

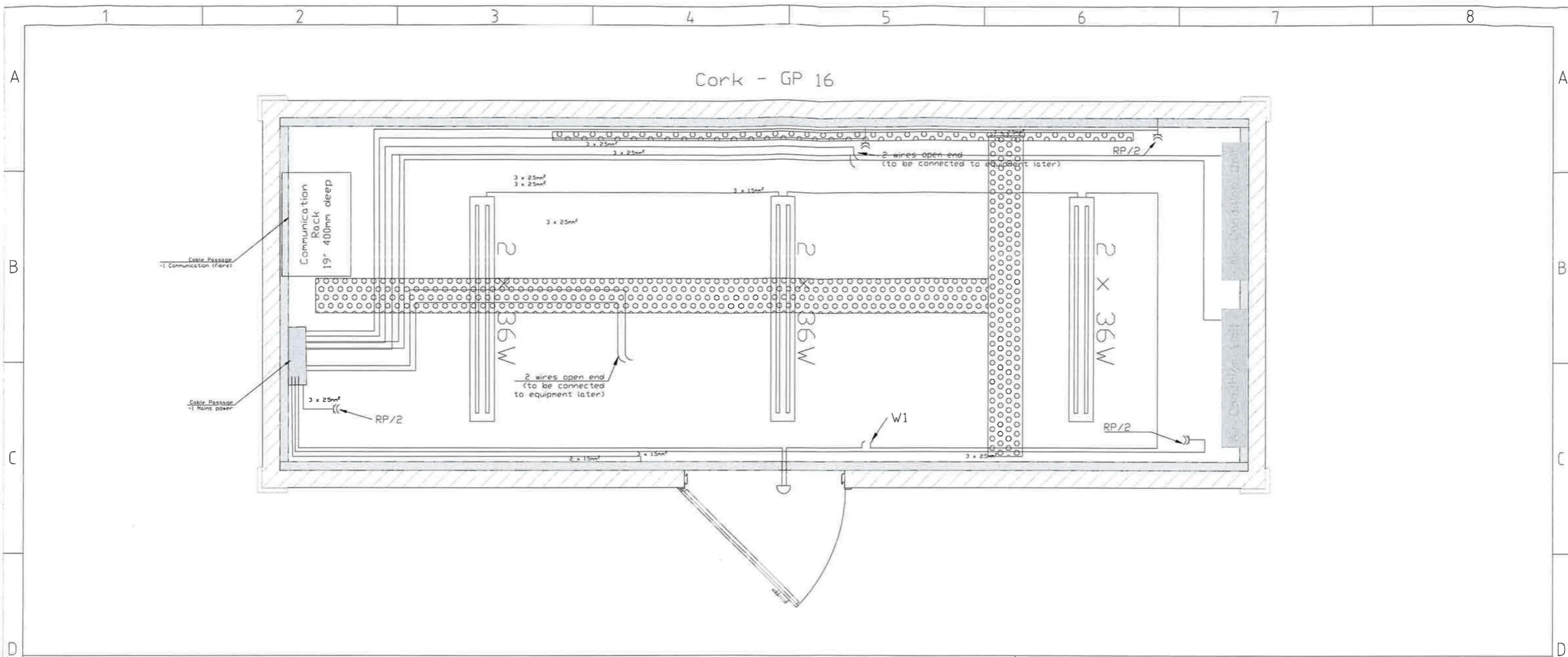
Section "E"
(only GP)



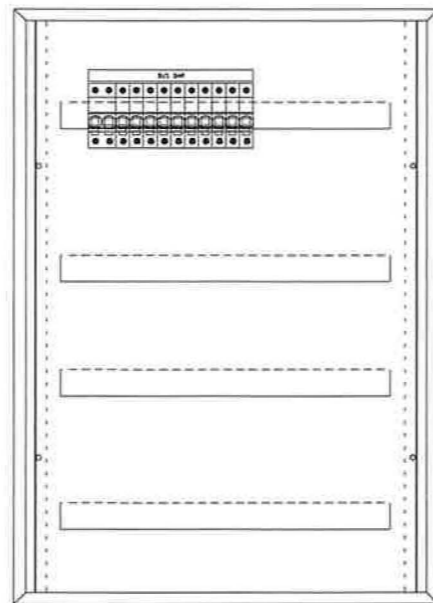
Section "F"
(only GP)



AVINEERING	Filename	Date		
	18125 - NavAid Shelter Cork GP 34 v.1.43.dwg	02-Jul-2021		
Title		Project		
Section E-F		ILS Shelter - Cork		
Drawn by	Scale	Edition	Sheet	
I.A	n/a	13	6/10	



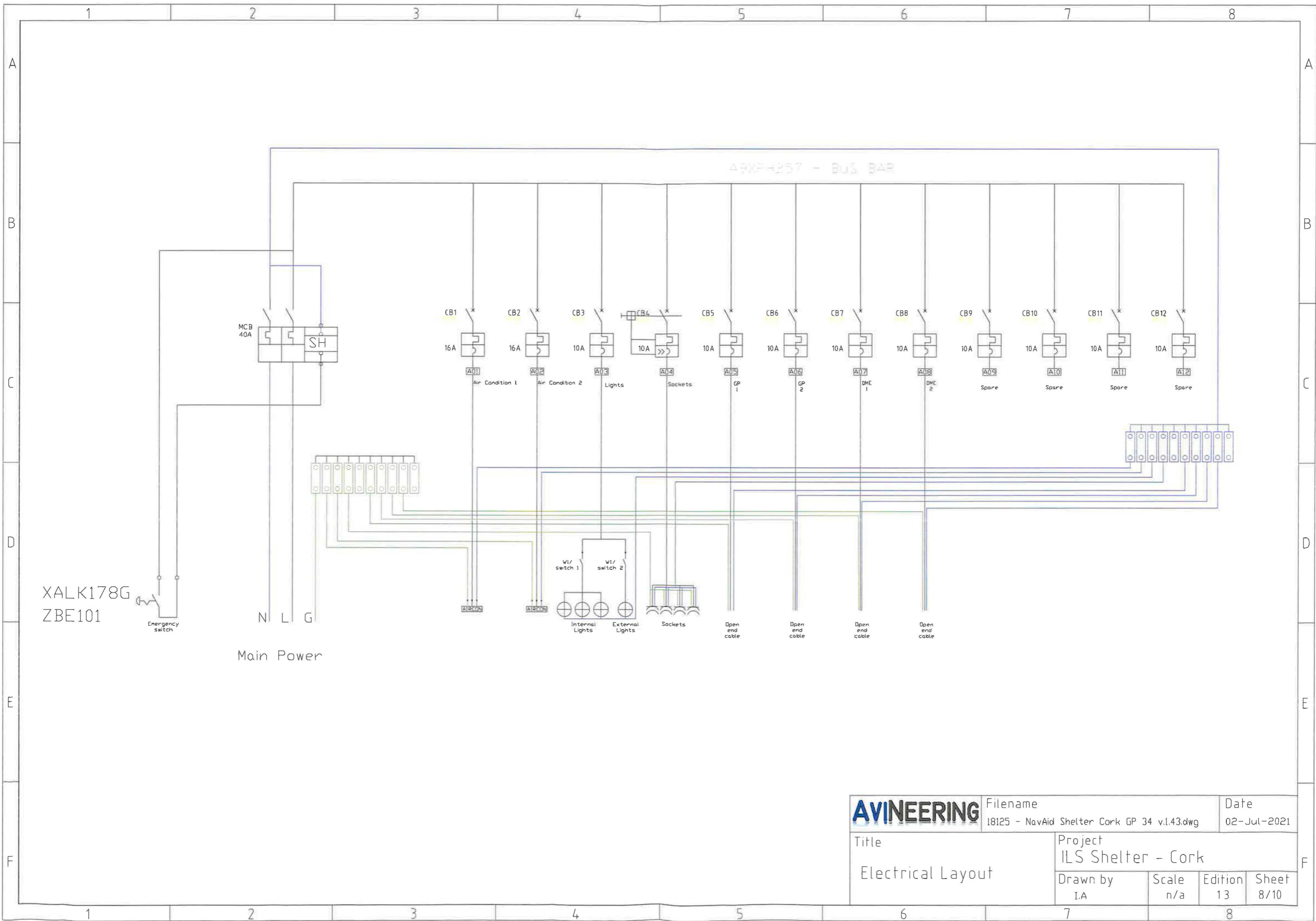
Electrical Distribution Panel



AVINEERING

Filename	Date
18125 - NavAid Shelter Cork GP 34 v.1.43.dwg	02-Jul-2021

Title		Project		
Electrical Distr. System		ILS Shelter - Cork		
Drawn by	Scale	Edition	Sheet	
IA	n/a	13	7/10	



XALK178G
ZBE101

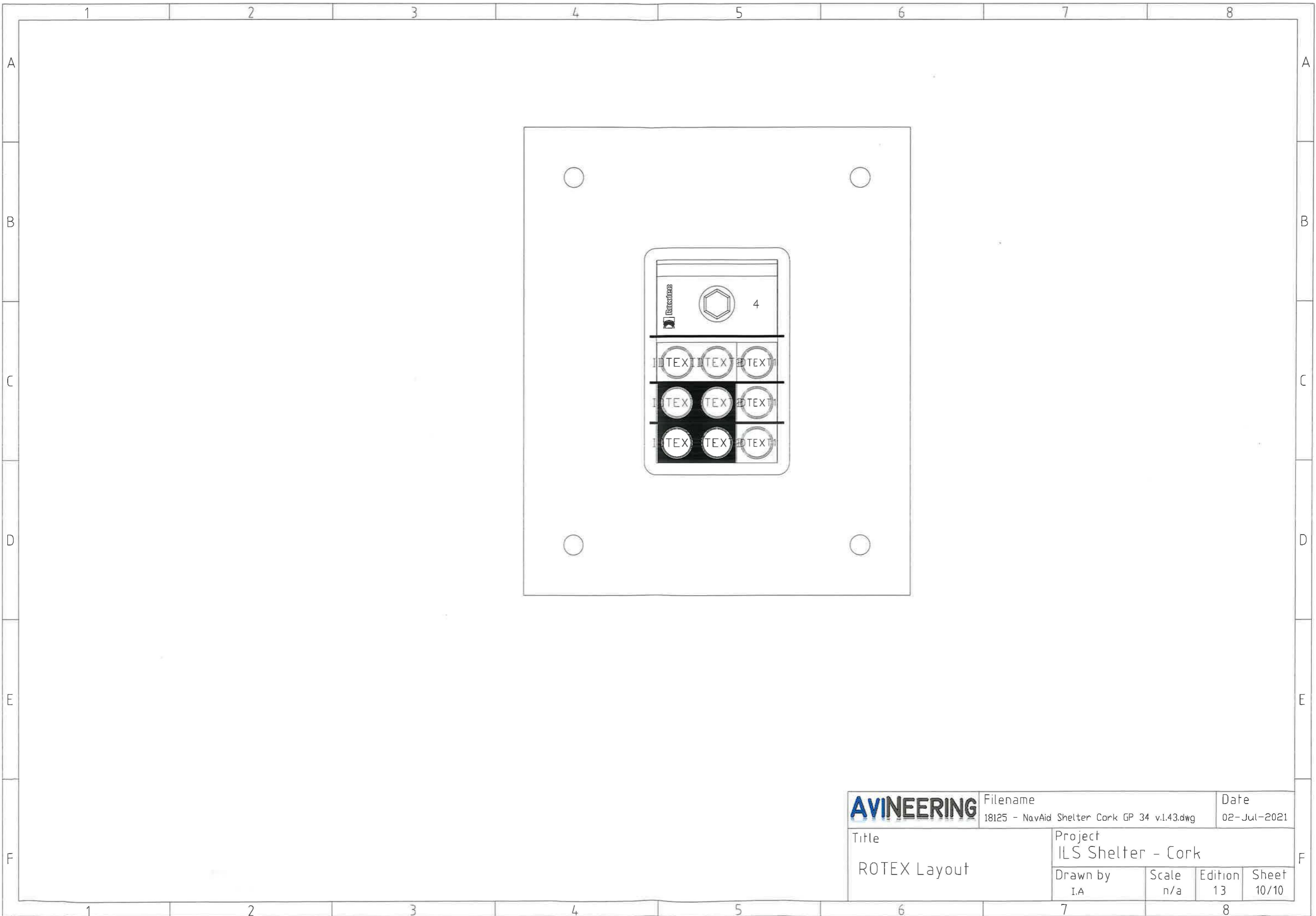
N L G
Main Power

A9XPH257 - BUS BAR

AVINEERING Title Electrical Layout	Filename 18125 - NavAid Shelter Cork GP 34 v.1.43.dwg	Date 02-Jul-2021			
	Project ILS Shelter - Cork		Drawn by IA	Scale n/a	Edition 13

List of materials				
Item	Description	Manufacturer	PNR	Volume
Container Installation				
1	Cable tray, wire mesh type. 200mm wide	n/a		Approx 11 m
2	Roof light - LED type with diffusers	n/a		3 pcs
3	Exteriour light LED with movement sensor	n/a		1 pcs
4	Internal ground bar (M8 threaded connection)	n/a		1 pcs
5	Light Switch for internal and external light	Schneider Electrics	n/a	1 pcs
6	Power Socket (double EU -> type F)	Schneider Electrics or simmlar	n/a	3 pcs
7	Cable 2.5mm2			
8	Emergency Stop button	Schneider Electrics	XALK178G	1 pcs
9	PVC Cable ducts 50x90mm			23 m
10	PVC Cable ducts 120x80mm			2.3m
11	PCV Cable duct 16x32mm			4 m
12	19 inch communication rack 12U (621mm x 600mm x 400mm)	RS online 802-0336 or similar	802-0336 or similar	1 pcs
13	Cable wall/floor adapter	Avineering design	Drawing 18126	7 pcs
14	ROXTEC wall adapter	ROXTEC	4 cables	1
15	Air Condition	Mitshubishi	3.5KW	2
Distribution Board				
1	Cabinet	Schneider Electrics	8004	1
2	Multi 9 - C60N - MCB - 4P - 40 A - C Curve - 415 V - 10 kA	Schneider Electrics	A9P24440	1
3	Shunt connected to main circuit breaker and stop button	Schneider Electrics	A9A26476	1
4	Miniature circuit-breaker, Acti9 1P, MCB 16A	Schneider Electrics		2
5	Miniature circuit-breaker, Acti9 1P, MCB 10A	Schneider Electrics		8
6	Surge Arrestor IPRF1 12,5R	Schneider Electrics	A9L16634	1
7	2 CABLE TIE SUPPORT W600 PRISMA G	Schneider Electrics	08867	1
8	A9XPH257 - BUS BAR	Schneider Electrics	A9XPH257	1

AVINEERING	Filename	Date	
	18125 - NavAid Shelter Cork GP 34 v.1.43.dwg	02-Jul-2021	
Title		Project	
List of Materials		ILS Shelter - Cork	
Drawn by	Scale	Edition	Sheet
I.A	n/a	13	9/10



AVINEERING	Filename	Date	
	18125 - NavAid Shelter Cork GP 34 v.1.43.dwg	02-Jul-2021	
Title		Project	
ROTEX Layout		ILS Shelter - Cork	
Drawn by	Scale	Edition	Sheet
I.A	n/a	13	10/10