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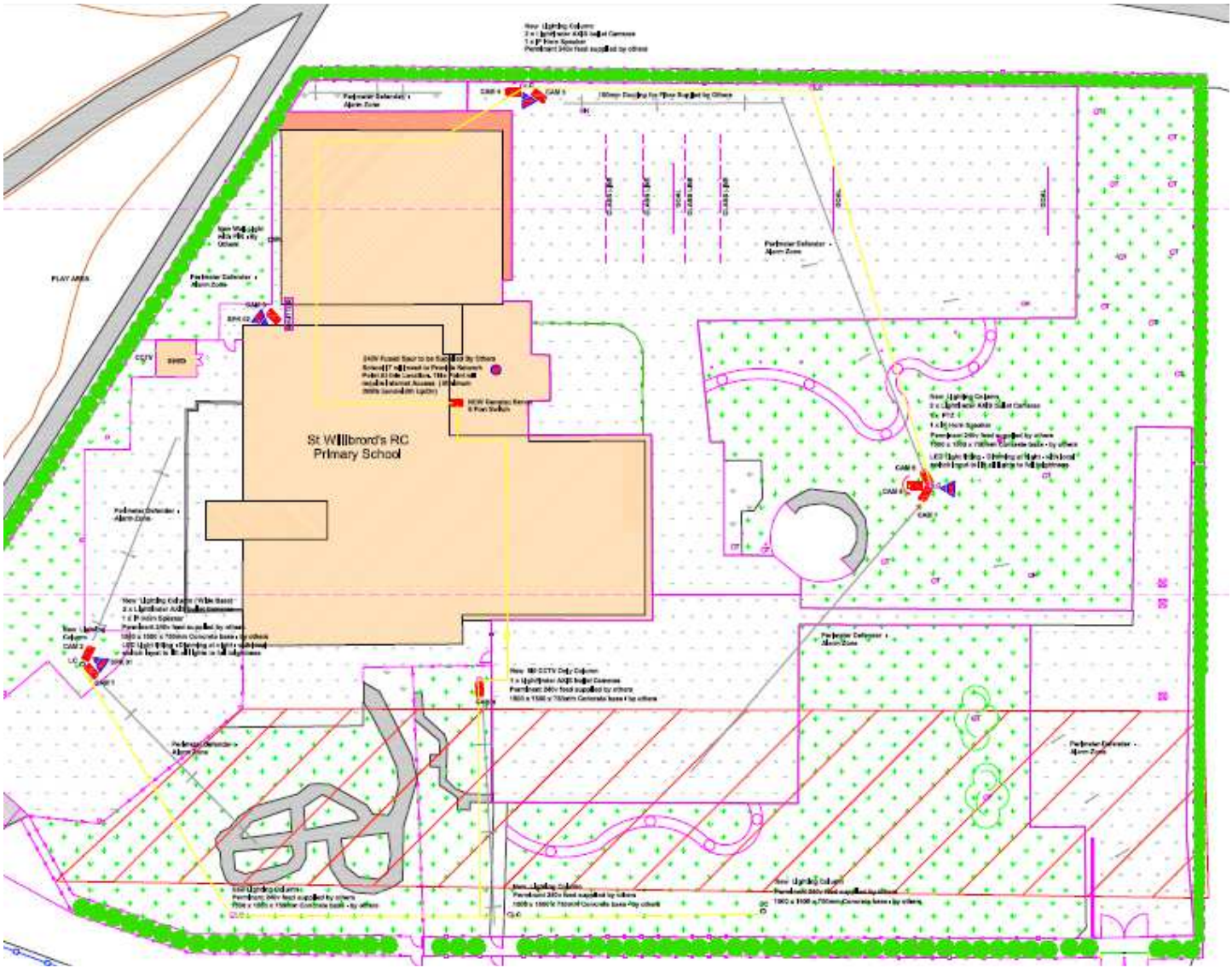
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SECTION 1 – DESIGN INFORMATION

The system is designed based upon the following information:

The quotation proposal has been produced based on the Grantfen drawing produced below.

Rev03_St Willibrords RC Primary School - External CCTV Plan



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SECTION 2 – CCTV SYSTEM

The CCTV System is to be a Server Based Solution using a Genetec Server c/w 4TB of Storage to accept the 9no Cameras required (detailed below).

In addition to the Cameras required we have also included for 4no Network Horn Speakers & 1no Internal Ceiling Speaker to be connected to the System. These Speakers will play a pre-recorded message upon receiving an Alarm signal from the Perimeter Defender Analytics installed on 8no of the Cameras.

Camera Types
The following cameras have been chosen to meet the requirement.

External Bullet Camera x 8
The AXIS P1435-LE provides excellent image quality in HDTV 1080p resolution and offers two lens alternatives for wide or tele. The day and night camera is ideal for 24/7 video surveillance, in exposed outdoor areas such as parking lots and service stations, and for general indoor surveillance purposes wherever a compact camera is needed.



External PTZ Camera x 1
AXIS Q6128-E is a compact, outdoor-ready PTZ dome, offering 4K resolution at 30 frames per second, 12x optical zoom and autofocus. The 4K resolution provides four times as much detail as the standard HDTV 1080p resolution, improving the video quality significantly. To save bandwidth, you can view live video in HDTV 1080p while recording in 4K for forensic purposes.



Genetec Streamvault Video Recorder
The Streamvault 300 Series offers a powerful Intel® Core™ processor and significant memory in order to display more video streams while simultaneously recording. With onboard encoder cards for support of up to 32 analog camera connections and expanded storage configurations, the 300 Series is ideal for small legacy security systems transitioning to a unified IP security system.



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Security Network Cabling
The CCTV system will require connecting to the dedicated Network Video Recorder, as such we will require containment, ducts and cable routes to be provided to each device, this cabling internally to devices within & on the building will be completed using Cat5, any other devices outside of the building will be cabled using Fibre as such we will require duct routes in place for this fibre route as per the drawings produced. Our control equipment will need to be connected to the external network to allow remote monitoring this will need to be provided by the client's incumbent network provider.

Network Horn Speakers x 4 (Installed Externally as drawing)
AXIS C3003-E Network Horn Speaker is a simple-to-install outdoor loudspeaker that provides clear, long-range speech for remote speaking in video surveillance applications. In live video monitoring situations, AXIS C3003-E enables an operator to remotely address people and deter unwanted activity. The loudspeaker can also play a pre-recorded audio file when it is manually or automatically triggered in response to an alarm event.



Network Ceiling Speakers x 1 (Installed Internally location TBC)
AXIS C2005 is a complete high-quality audio system in a single unit. There's no need for an amplifier, mixer, digital signal processor, streaming functionality, microphone or power supply because they're all built-in. And because it's preconfigured, you don't have to be a sound expert to set it up. In other words, AXIS C2005 simply works – and sounds great – right out of the box. Plus, a built-in auto speaker-test function means you can be confident it will keep on working. AXIS C2005 connects to your existing IP network and it's powered over a single Power over Ethernet cable.



Setting of Perimeter Analytic Detection System (Solution TBC)
At this stage it is envisaged the system will be set via an access control remote fob which will be located internally and be integrated with the CCTV system, this input will be configured in the CCTV system on an event to action basis which will arm and disarm the system each time the fob/card is presented to the reader, the system will provide an audible confirmation of the set or unset via the Internal IP speaker detailed above this will be presented as a beep or tone which the staff can recognise.

Control of Lighting on Activation
This solution has been agreed with PH Electrical, we will provide a 0v output from our equipment in one location at the recording equipment, PH Electrical will take this output and use it to trigger their relays to increase lighting levels as deemed necessary.

Exclusions

- 230-volt mains supplies & spurs
- Cable Containment Internally or Externally
- Lighting Relays or Interfacing
- Ducts to Columns

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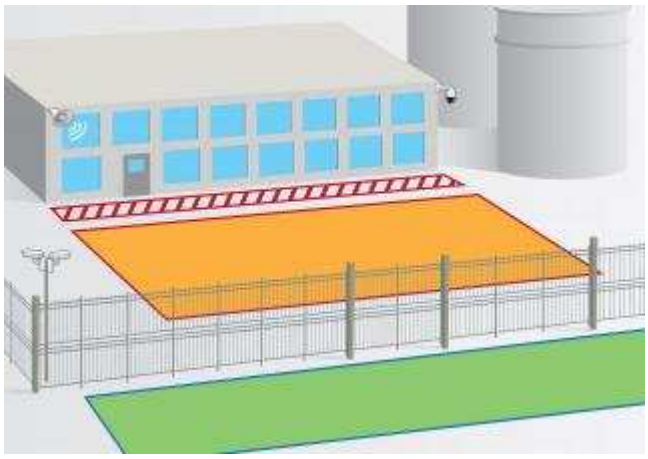
Perimeter Defender Analytic (Installed to 8no Cameras)

AXIS Perimeter Defender gives you an edge where security starts – at the perimeter of your facilities. It's ideal for reinforcing physical access control for high-security locations such as chemical plants, power plants and prisons, and for critical infrastructure. Together with Axis network cameras, horn speakers, and video management software, AXIS Perimeter Defender offers a video-based solution for effective perimeter protection. It is i-LIDS certified as a primary detection system for monitoring sterile zones.



AXIS Perimeter Defender provides accurate detection capabilities with support for multiple detection scenarios, including intrusion detection and loitering. The application can detect multiple events occurring simultaneously in different places. It analyzes detected events, dismisses non-threatening ones and notifies security staff of potentially critical situations. Your staff can then choose to view detailed video footage to determine the precise nature of the threat – and act accordingly. The result is accurate detection and minimal false alarms.

Detection scenarios



AXIS Perimeter Defender can detect and trigger an alarm for four different types of scenarios:

- Intrusion: When one or more persons or vehicles enter a predetermined zone
- Zone crossing: When a person or vehicle passes through two predetermined zones in a predetermined order and direction.
- Loitering: When a person or a vehicle remains in a predetermined zone for more than a certain number of seconds.
- Conditional zone crossing: When a person or a vehicle enters a predetermined zone without starting in or passing through one or more predetermined zones.

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SECTION 3 – LIGHTING & CAMERA COLUMNS

A total number of 6no 8m Wind Down Columns will be provided, 3no of these columns are to be for lighting & CCTV as such these will be provided with a 300mm Cabinet Base to house the CCTV Switches, the other 3no Columns are for Lighting only as such these will not be provided with a cabinet base.

All of these columns will be finished in Black, fitted with an Anti Climb Bracket with a Winch provided and left on site with the client to facilitate the winch down of the columns for maintenance purposes.

Inclusions
The following equipment has been included: -

- 3no Lighting Only 8m Columns
- 3no Lighting & CCTV 8m Columns c/w Cabinet Base
- 1no CCTV Only 6m Column
- 7no Root Boards & Studs to be free issued to the civil contractor
- 7no Anti Climb Brackets
- Column Winch
- Black Paint Finish
- Delivery to Site

Exclusions
The following equipment and work has been excluded

- Concrete Bases
- Duct Routes
- Any Civil Works
- Additional Plant for fitting columns

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