Clonmel Municipal District

Comhairle Contae Thiobraid Árann
Tipperary County Council

Clonmel CCTV Project.
Public Consultation Process

Clonmel Municipal District Office,
Emmet Street,
Clonmel,,
Co. Tipperary.   *December 2022*

Clonmel CCTV System.

1.0   Introduction

1.1   Tipperary Co. Council in association with An Garda Siochana are considering the installation of a new Closed Circuit Television System in Clonmel to replace and extend the existing Garda Town Centre CCTV system and to provide CCTV coverage in Davis Road Car Park, Kickham Barracks, Suir Island Car Park and Heywood Road. It is also proposed to incorporate the existing CCTV cameras in Elm Park and Cooleens Close into the new system.

2.0   Clonmel CCTV System Objectives;

 2.1   The main objectives of the Clonmel CCTV system are to;
1.   Provide a deterrent to crime and anti-social behaviour.
2.   Improve public safety.
3.   Assist emergency services when investigating an incident.
4.   Gather evidence for the detection and prosecution of persons who may have been involved in criminal activity.
5.   Assist the Local Authority in the management of public areas which is essential to the commercial wellbeing of the town.

3.0   Proposed Camera System.

3.1   The proposed system will consist of a combination of multi-sensor cameras, fixed lens dome cameras, fixed lens bullet cameras and pan-tilt & zoom cameras. The total number of new CCTV cameras required for the Clonmel CCTV System is 52 i.e.
- 4 x 4 lens multi-sensor IP cameras,
- 11 x 3 lens multi-sensor IP cameras,
- 35 x outdoor dome IP cameras.
- 2 x Pan-Tilt & Zoom cameras.

The total number of existing CCTV cameras to be incorporated into the new system is 34 i.e.
- Elm Park- 28
- Cooleens Close - 6.

3.2   The system will provide CCTV coverage of Clonmel Town Centre and adjoining areas in line with Tipperary County Council and Garda Siochana requirements.

3.3   All cameras will be linked by a wireless transmission system to a CCTV server which will be based at Tipperary County Council Civic Offices, Emmet Street, Clonmel, Co. Tipperary.

3.4   Tipperary County Council will be the Data Controllers for the CCTV system and will manage all Data Protection/GDPR matters related to the system.

3.5   An Garda Siochana, Clonmel will be provided with a live link to the system.

4.0   Clonmel CCTV System – Proposed Layout.

Location Number	Camera No.	Camera Type	Camera Field of View	GPS Co-ordinates.
1. Existing Camera Pole in Parnell Street	1 & 2	1 x PTZ camera. 1 x 4 Lens Multi sensor Camera	Adjoining Streets.	52.35336, -7.69994

Location Number	Camera No.	Camera Type	Camera Field of View	GPS Co-ordinates.
2.	3	1 x 3 Lens Multi sensor Camera	Adjoining Streets.	52.35361, -7.70192

Gladstone Street. Existing camera pole				

Location Number	Camera No.	Camera Type	Camera Field of View	GPS Co-ordinates.
3 Market Street –	4	1 x PTZ Camera	General Overview of Area.	52.35397, -7.70114

existing camera pole				-7.70214

Location Number	Camera No.	Camera Type	Camera Field of View	GPS Co-ordinates.
4 - Gladstone St/Mary St. Car Park –	5	1 x 3 Lens Multi sensor Camera	Adjoining Streets	52.35423, -7.70214

existing camera pole				

Location Number	Camera No.	Camera Type	Camera Field of View	GPS Co-ordinates.

Location Number	Camera No.	Camera Type	Camera Field of View	GPS Co-ordinates.
No.5. Emmet Street – Existing camera pole	6	1 x 3 Lens Multi sensor Camera	Adjoining Streets	52.3548, -7.70032

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Location Number	Camera No.	Camera Type	Camera Field of View	GPS Co-ordinates.
No.6 - Main Guard –	7	1 x 4 Lens Multi sensor Camera	Adjoining Streets	52.35302, -7.7017

Existing camera pole				

Location Number	Camera No.	Camera Type	Camera Field of View	GPS Co-ordinates.
No.7 - O'Connell Street –	8	1 x 4 Lens Multi sensor Camera	Adjoining Streets	52.35251, -7.70413

existing CCTV pole				

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Location Number	Camera No.	Camera Type	Camera Field of View	GPS Co-ordinates.

No.8 – New Quay junction with Sarsfield Street - Existing CCTV pole	9	1 x 3 Lens Multi sensor Camera	Adjoining Streets	52.35189, -7.70096

Location Number	Camera No.	Camera Type	Camera Field of View	GPS Co-ordinates.
No.9 - Mick Delahunty Square –	10	1 x 3 Lens Multi sensor Camera	Adjoining Streets	52.35474, -7.69898

Existing CCTV pole.				

Location Number	Camera No.	Camera Type	Camera Field of View	GPS Co-ordinates.
No.10 - New Quay junction with	11	1 x 3 Lens Multi sensor Camera	Adjoining Streets	52.35224, -7.69828

Nelson Street - Existing CCTV pole				
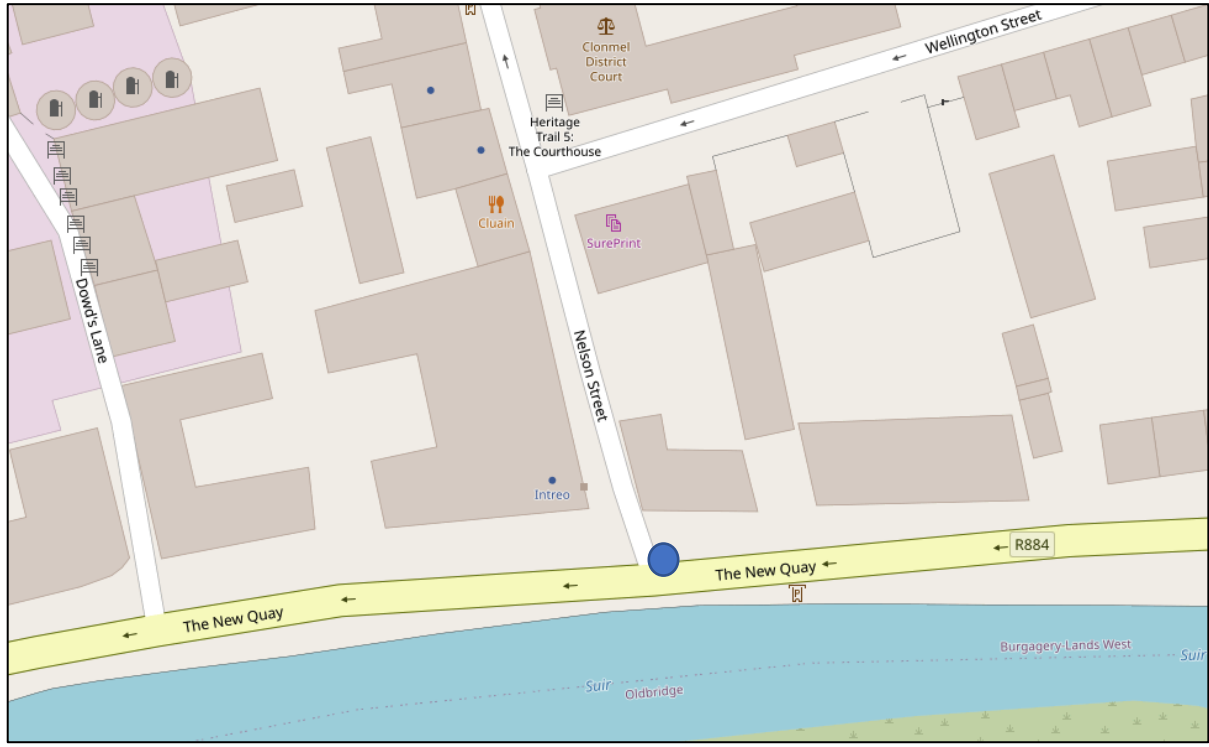
Location Number	Camera No.	Camera Type	Camera Field of View	GPS Co-ordinates.
No.11 - The Mall – existing CCTV pole	12	1 x 3 Lens Multi sensor Camera	Adjoining Streets	52.35397, -7.69634

Location Number	Camera No.	Camera Type	Camera Field of View	GPS Co-ordinates.
No.12- Kickham Street – existing CCTV pole	13	1 x 3 Lens Multi sensor Camera	Adjoining Streets	52.35524 7.70124
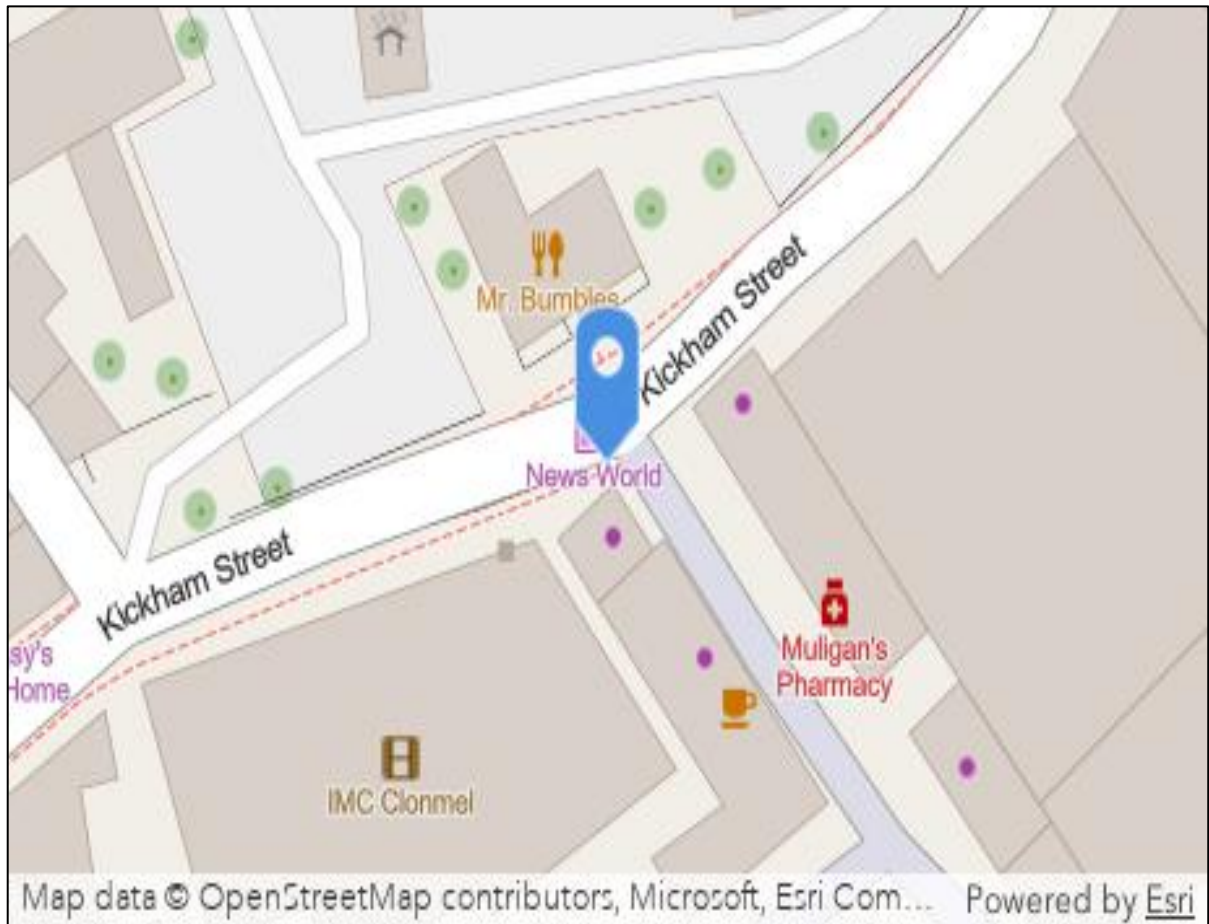
Location Number	Camera No.	Camera Type	Camera Field of View	GPS Co-ordinates.
No.13 - Peter St./Wolfe Tone St. Junction.	14	1 x 3 Lens Multi sensor Camera	Adjoining Streets	52.35309, -7.70598
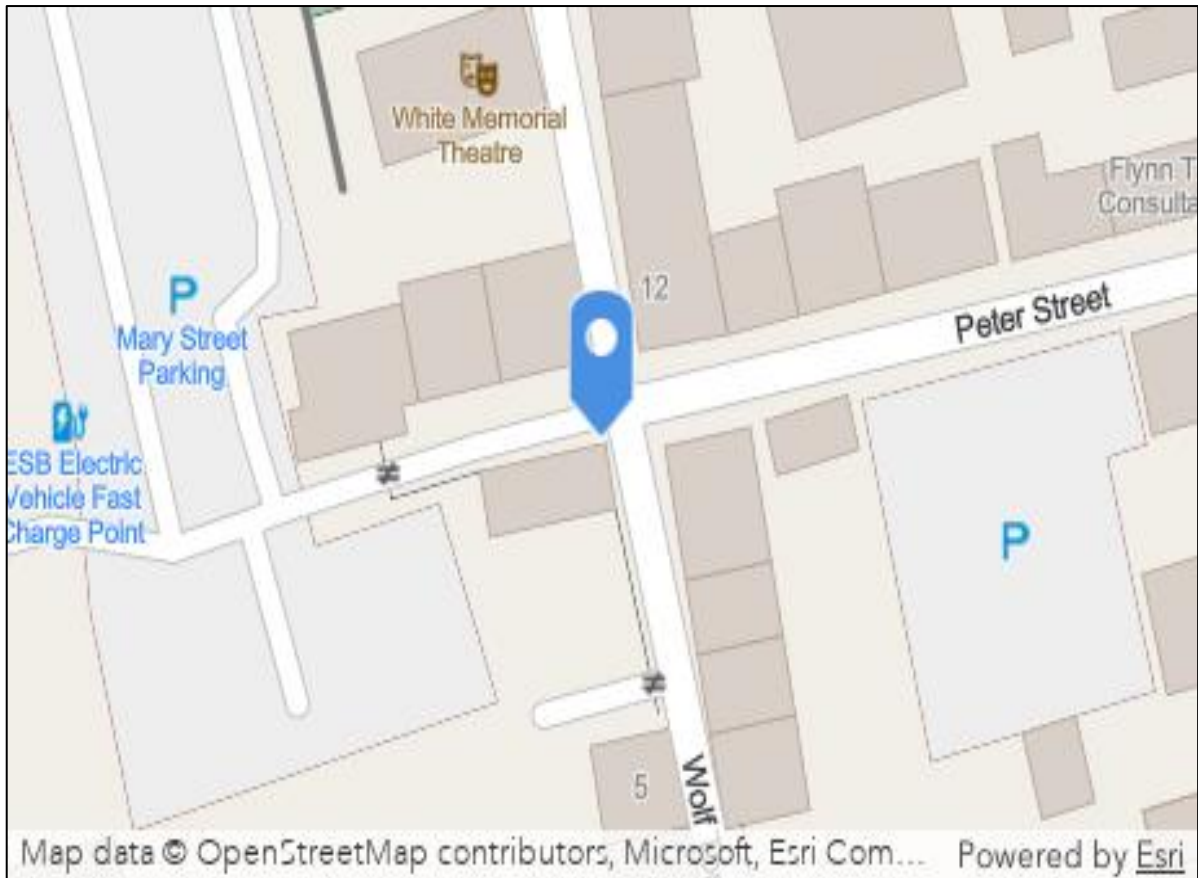
Location Number	Camera No.	Camera Type	Camera Field of View	GPS Co-ordinates.
No.14 – Irishtown – New Pole required on footpath outside No. 82A.	15 & 16	2 x Fixed Bullet Cameras.	Adjoining Streets	52.35209, -7.70927

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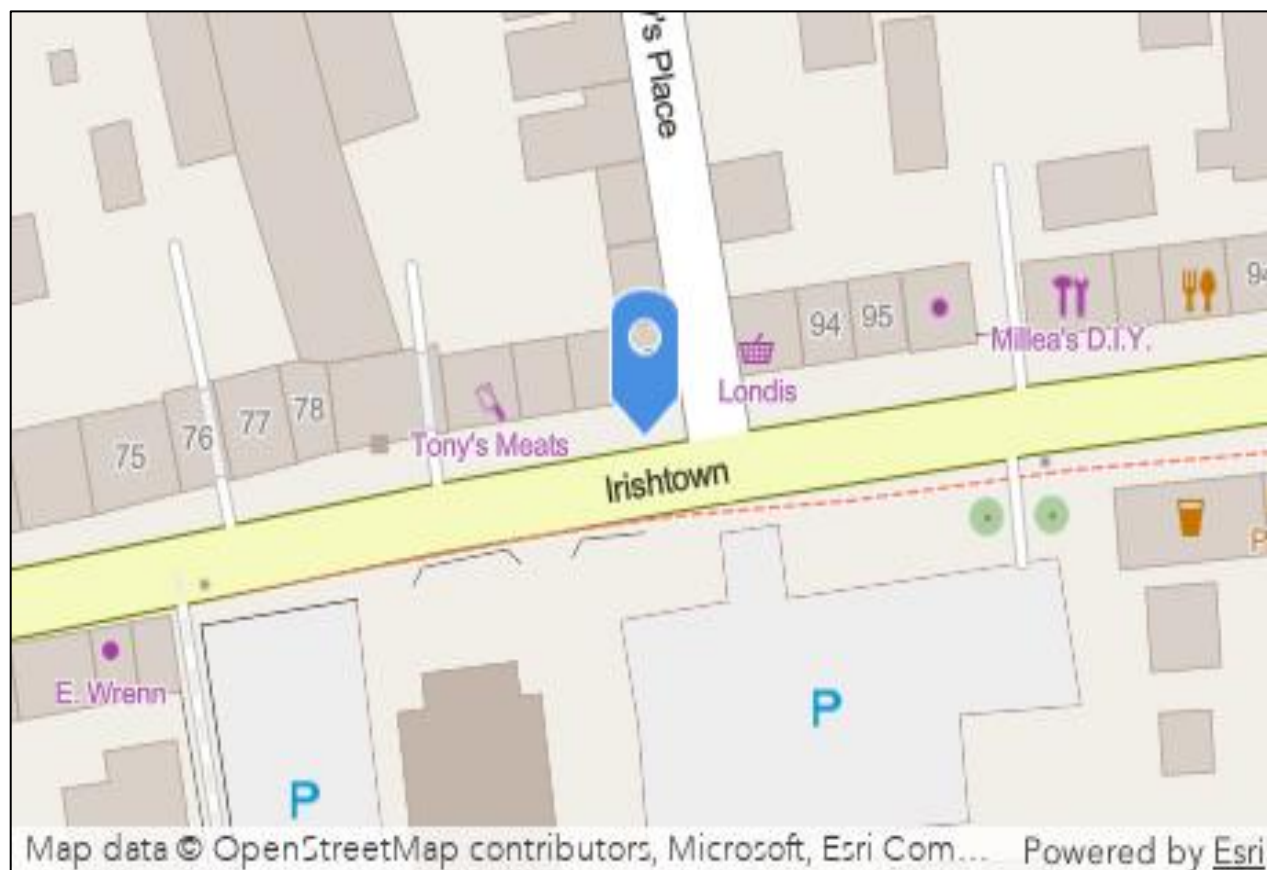
Location Number	Camera No.	Camera Type	Camera Field of View	GPS Co-ordinates.

No.15 – Old Bridge	17	1 x 3 Lens Multi sensor Camera	Adjoining Streets	52.3491: -7.70433

Location Number	Camera No.	Camera Type	Camera Field of View	GPS Co-ordinates.
No.16 – Dillon Street/King Street Junction	18	1 x 4 Lens Multi sensor Camera	Adjoining Streets	52.357: -7.69739
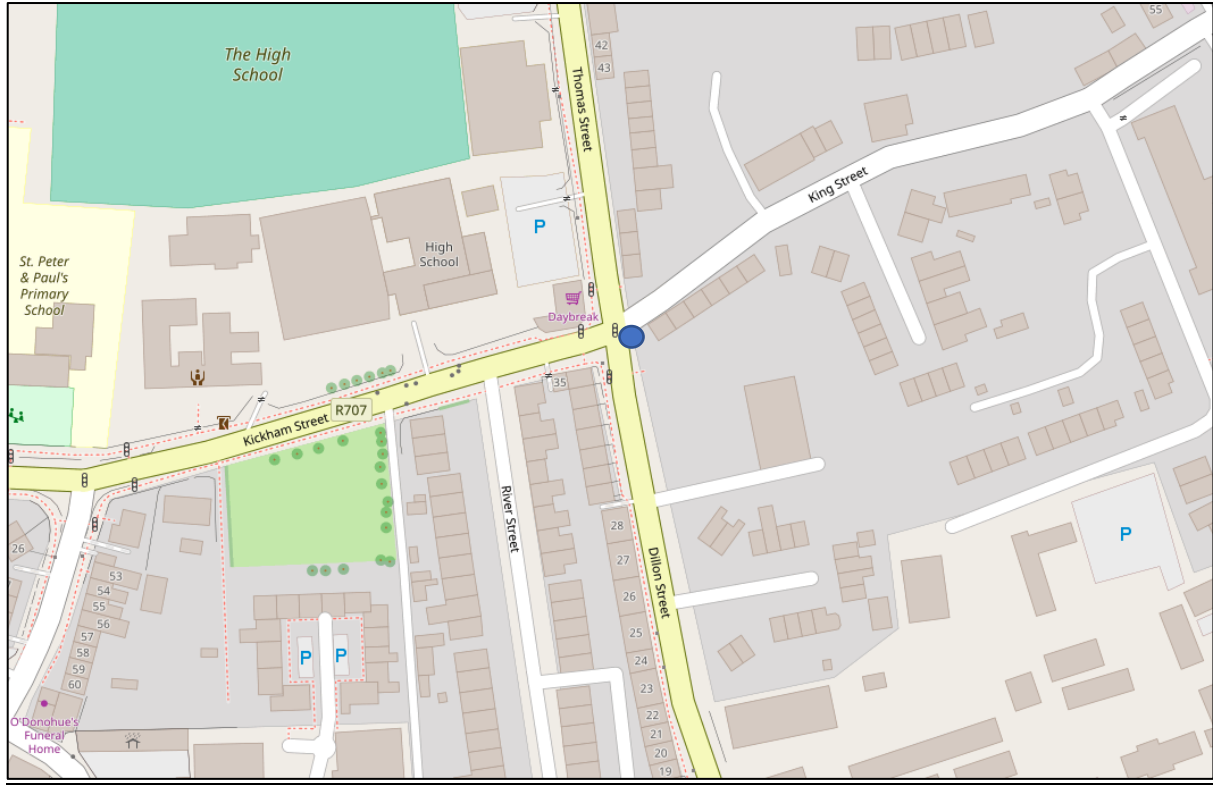
Location Number	Camera No.	Camera Type	Camera Field of View	GPS Co-ordinates.

No.17 – Abbey Car Park	19	1 x 3 Lens Multi sensor Camera	Abbey Car Park & Adjoining Streets	52.35271 -7.70069

Location Number	Camera Number	Camera Location.	Camera Type	GPS Co-ordinates

Location Number	Camera Number	Camera Location.	Camera Type	GPS Co-ordinates
18	No's 20 &21	Gable End of Hughes Mills Apartment Building.	2 x 4 Megapixel IP Dome Cameras.	52.35153, -7.70396

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Location Number	Camera Number	Camera Location.	Camera Type	GPS Co-ordinates
19	No's 22,23,24 & 25	On new Camera Pole inside main entrance to Suir Island.	4 x 4 Megapixel IP Dome Cameras.	52.35129, -7.70285

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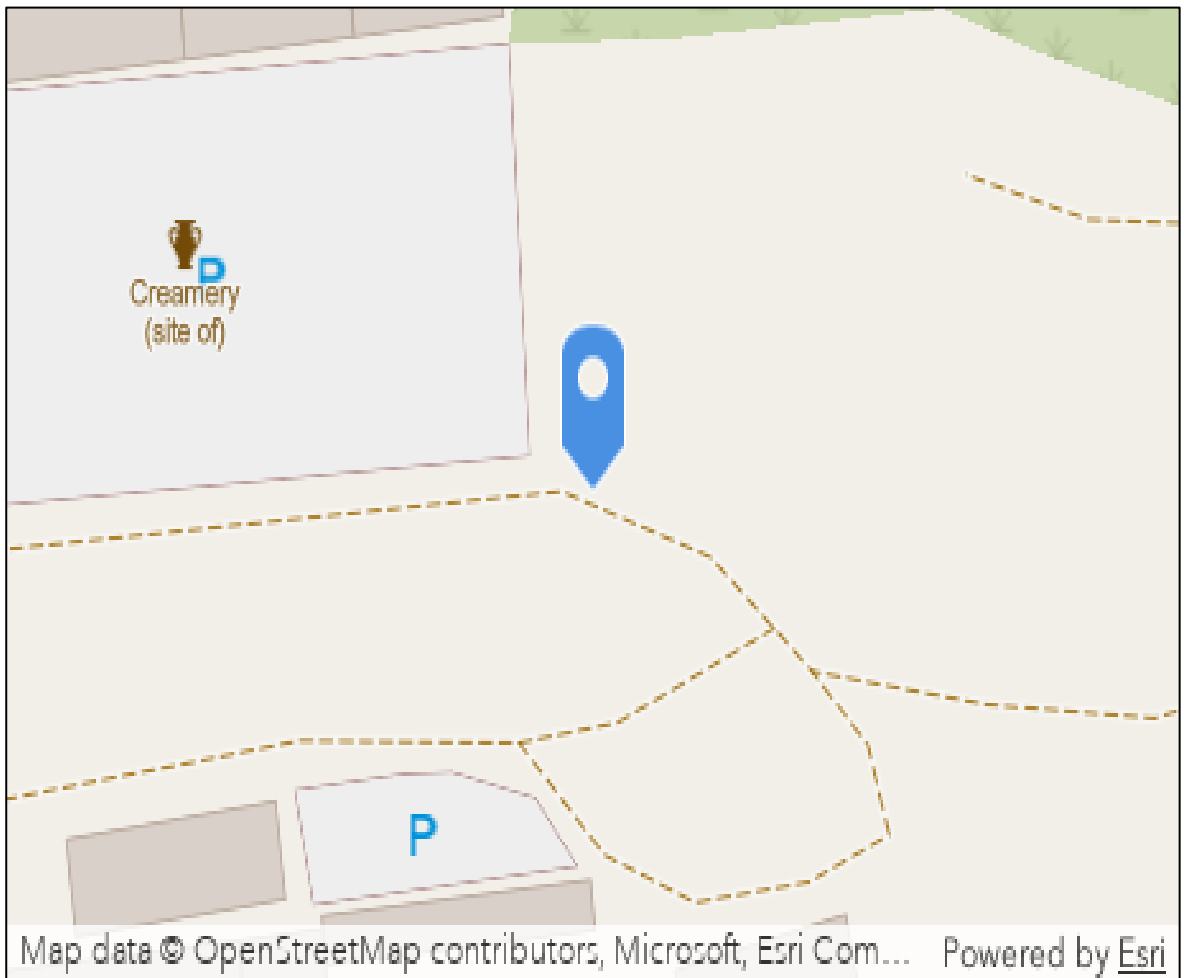
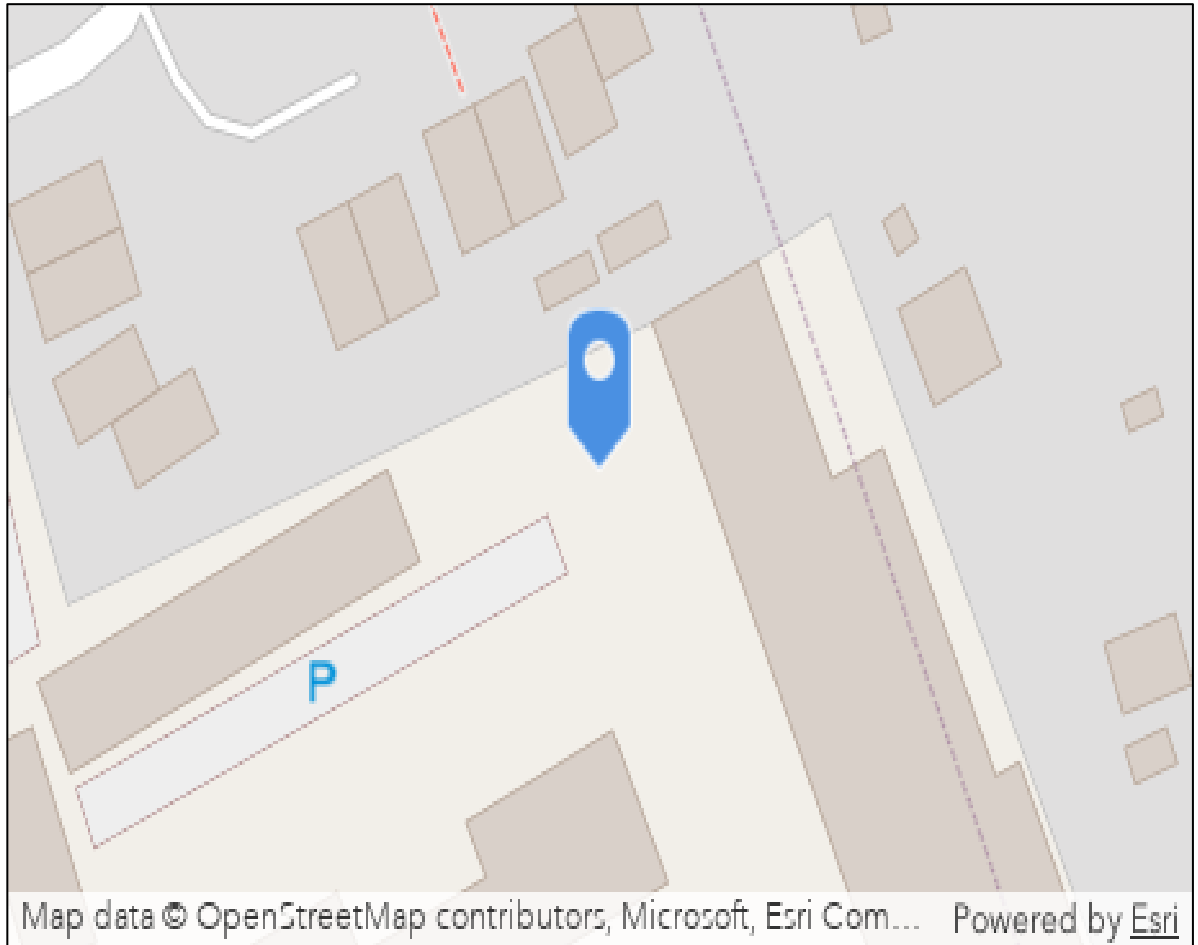| Location Number	Camera Number	Camera Location.	Camera Type	GPS Co-ordinates
20	No's 26,27 & 28	On camera pole adjacent to laneway off Old Bridge Road.	3 x 4 Megapixel IP Dome Cameras.	52.35102, -7.70285

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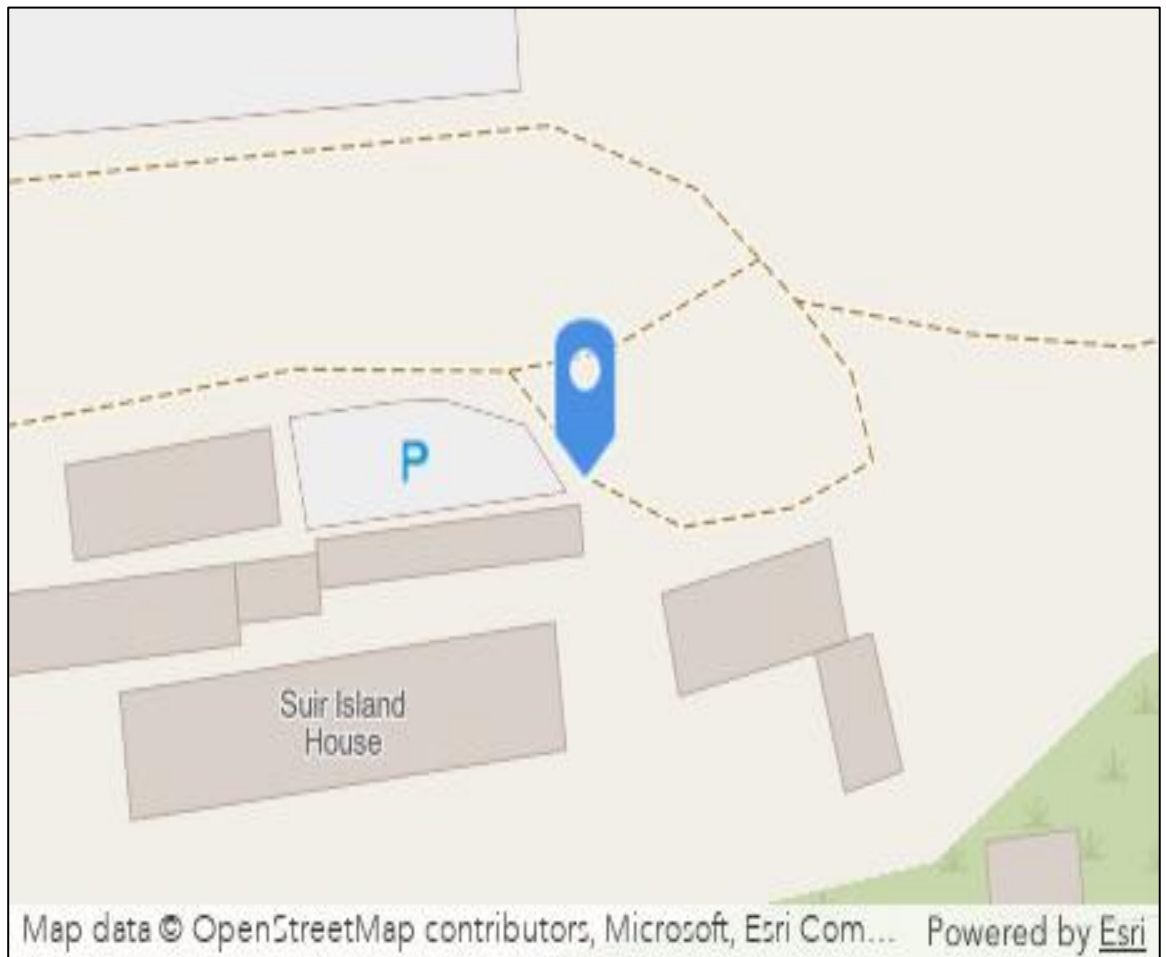
Location Number	Camera Number	Camera Location.	Camera Type	GPS Co-ordinates
21	No's 32- 33	On new camera pole on right inside	2 x 4 Megapixel IP Dome Cameras.	52.35524, -7.69272

		entrance to Suir Island Car Park		

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Location Number	Camera Number	Camera Location.	Camera Type	GPS Co-ordinates

22	No's 34,35 & 36	New camera pole to replace existing light pole in northern end of Suir Island Car Park	3 x 4 Megapixel IP Dome Cameras.	52.35624, -7.69395

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Location Number	Camera Number	Camera Location.	Camera Type	GPS Co-ordinates
23	No's 29,30 & 31	On new camera pole adjacent to River bank- Suir Island	3 x 4 Megapixel IP Dome Cameras.	52.35109, -7.70166

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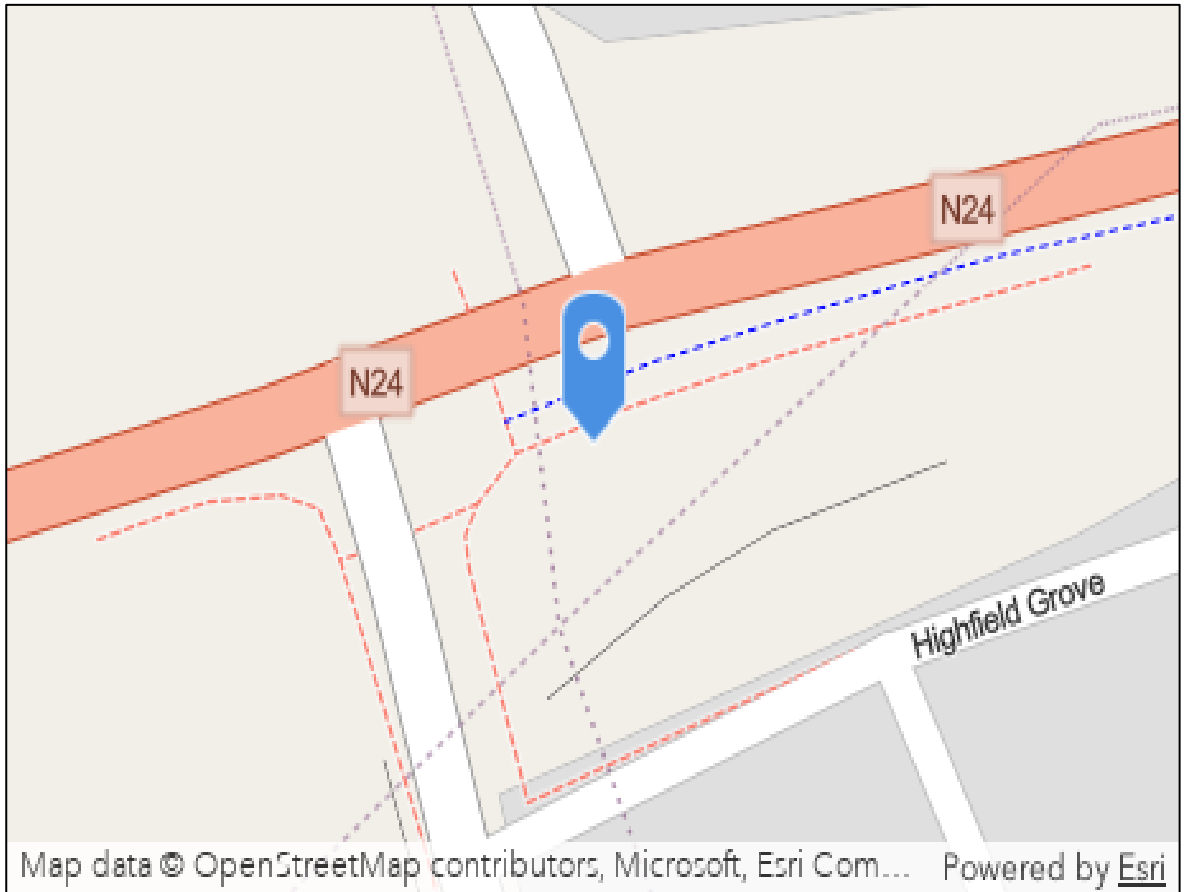| Location Number	Camera Number	Camera Location.	Camera Type	GPS Co-ordinates
24	No's 37 & 38	On new camera Pole inside Dillon Street entrance to Kickham Bks.	2 x 4 Megapixel IP Dome Cameras.	52.35519, -7.69655
25	No's 39-40	On new Camera Pole in corner of	2 x 4 Megapixel IP Dome Cameras.	52.35531, -7.69513

		Central Plaza-Kickham Bks.		
26	No. 41	On new Camera Pole in Central Plaza- Kickham Bks.	1 x 4 Megapixel IP Dome Camera.	52.35575 -7.69543
27	No's 42 - 43	On new Camera Pole in s/w corner of Main Plaza- Kickham Bks.	2 x 4 Megapixel IP Dome Cameras.	52.35427, -7.69597
28	No's 44- 45	On new Camera Pole in Main Plaza- Kickham Bks.	2 x 4 Megapixel IP Dome Cameras.	52.35439, -7.69539
29	No's 46- 47	On new Camera Pole in eastern side of Central Plaza- Kickham Bks.	2 x 4 Megapixel IP Dome Cameras.	52.3547, -7.69465
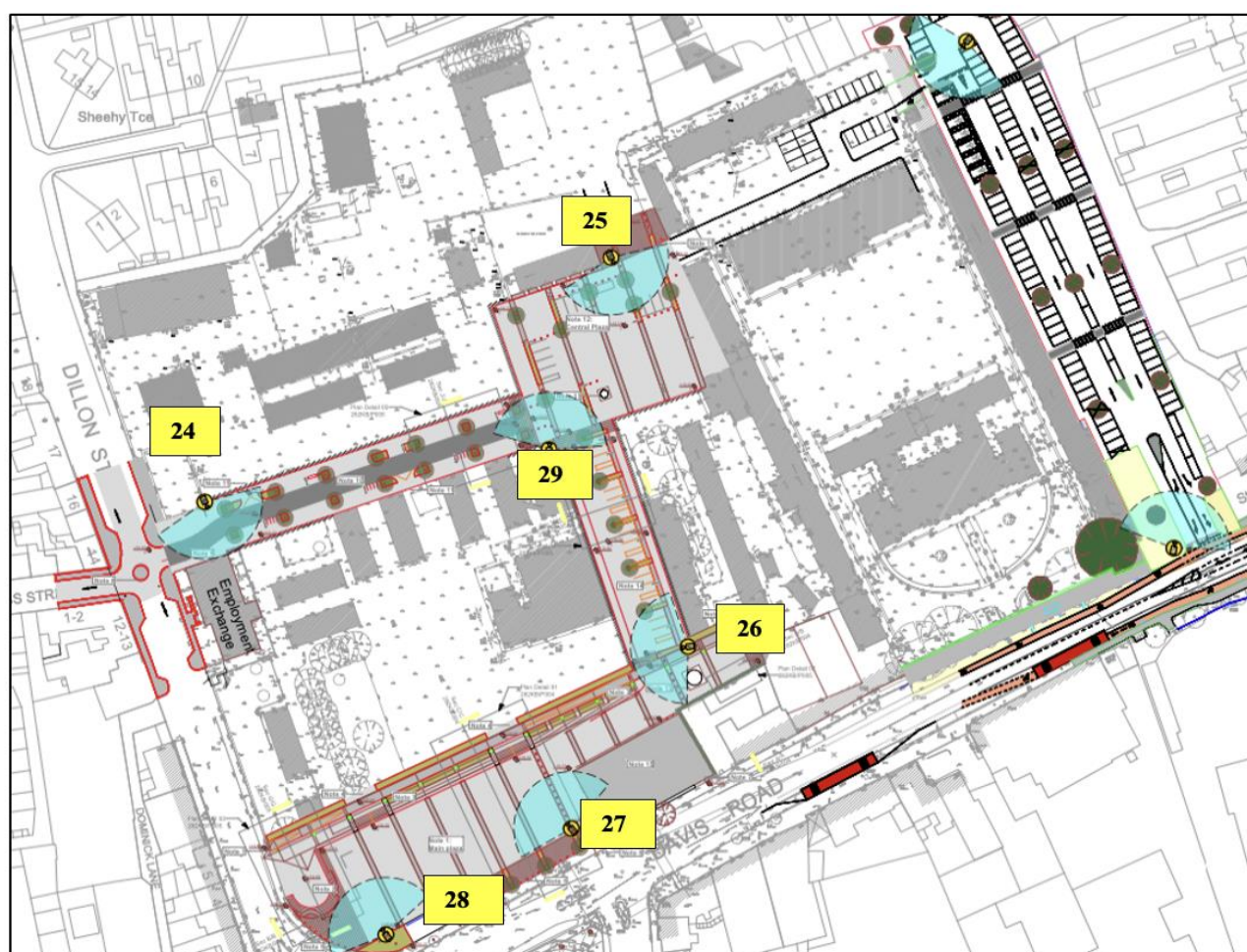
Location Number	Camera Number	Camera Location.	Camera Type	GPS Co-ordinates
30	No's 47,48 &49	On new camera Pole on grounds of Clonmel Rugby Club- Heywood Road	3 x 4 Megapixel IP Dome Cameras.	52.36878, -7.71809

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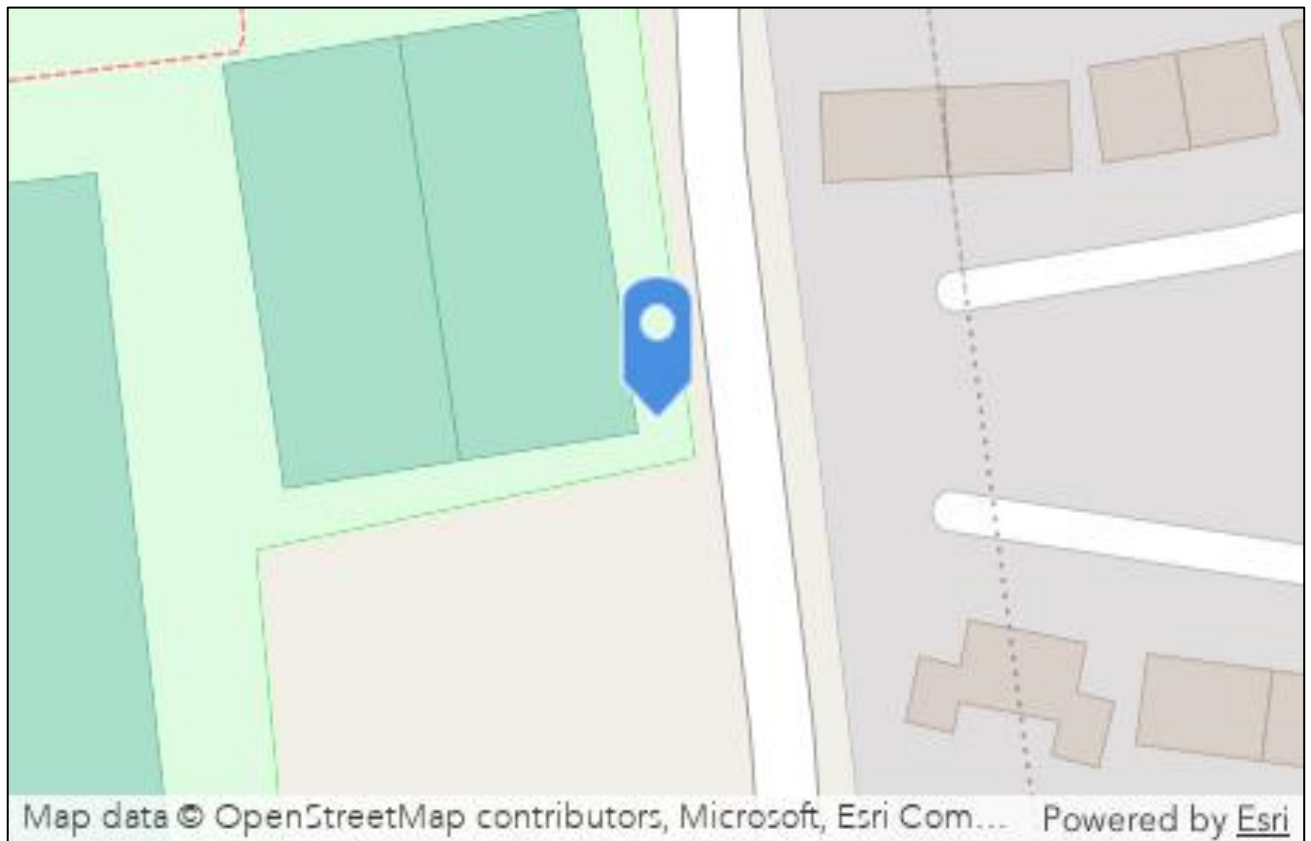
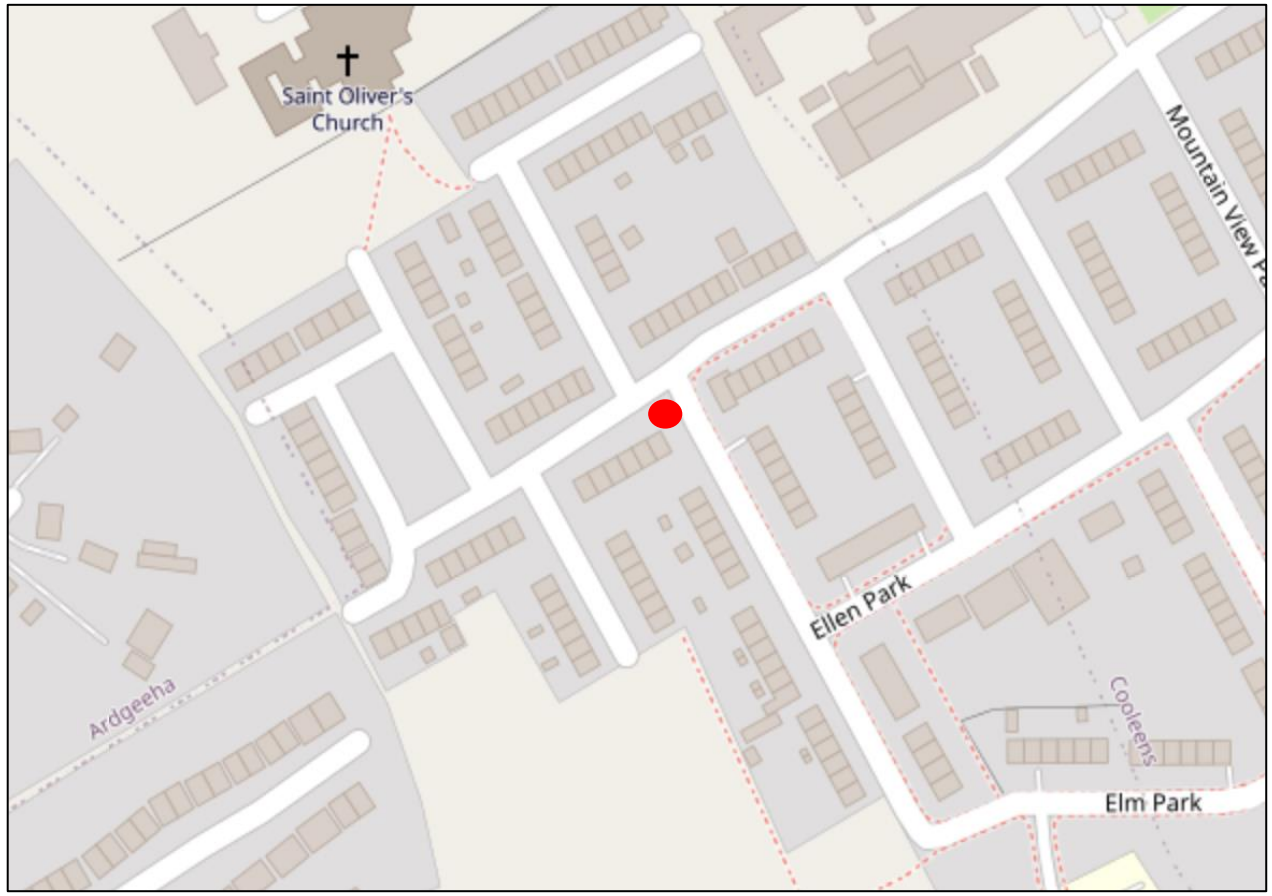| Location Number	Camera Number	Camera Location.	Camera Type	GPS Co-ordinates
31	No's 50-51	On new camera Pole adjacent to junction of N24 & Heywood Road Lower.	2 x 4 Megapixel IP Dome Cameras.	52.36373, -7.71661

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Location Number	Camera Number	Camera Location.	Camera Type	GPS Co-ordinates
32	No.53, 54 & 55	Heywood Road on Existing Camera Pole at junction with Heywood Close	2 x 4 Megapixel IP Dome Camera. 1 x PTZ Camera.	52.35664, -7.71041

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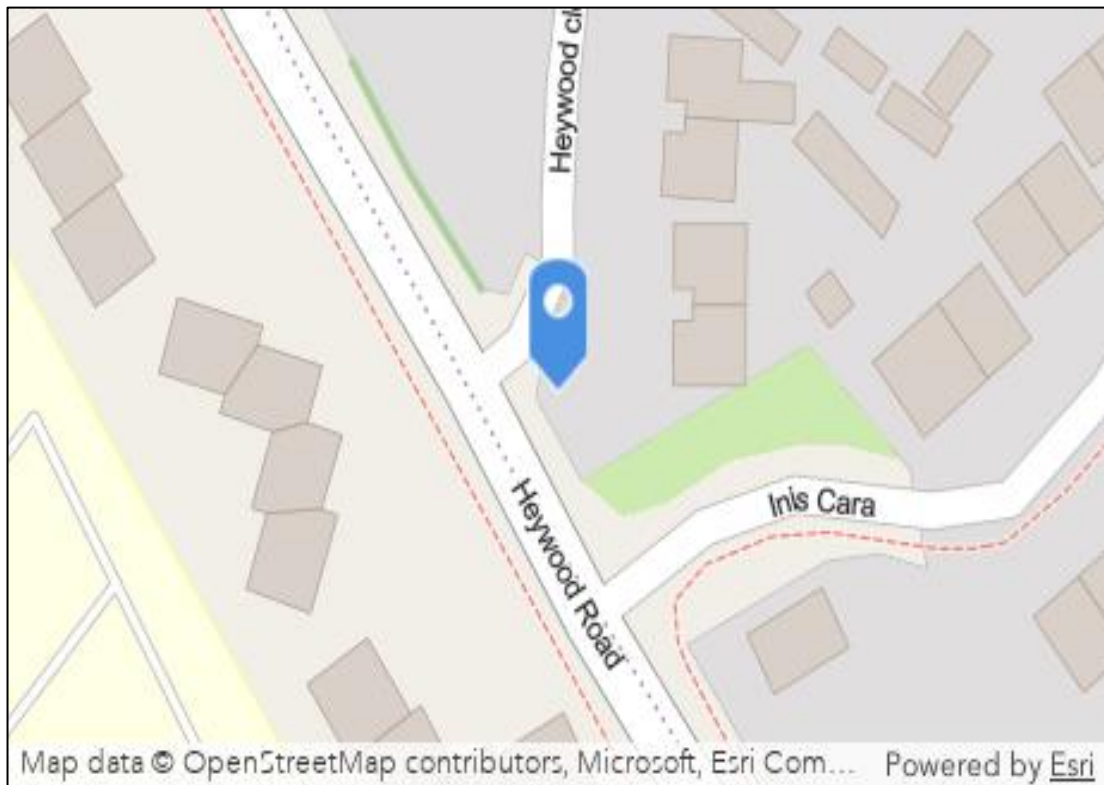
Location Number	Camera Number	Camera Location.	Camera Type	GPS Co-ordinates
33	No's 56 ,57 & 58	Elm Park- Church Road adjacent to Kebab Shop- On Existing Camera Pole.	3 x 4 Megapixel IP Dome Cameras.	52.35887, -7.71644

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Location Number	Camera Number	Camera Location.	Camera Type	GPS Co-ordinates
34	No's 59,60 61 & 62	Elm Park- Mountain View - On Existing Camera Pole.	4 x 4 Megapixel IP Dome Cameras.	52.35935, -7.71789

Location Number	Camera Number	Camera Location.	Camera Type	GPS Co-ordinates

35	No's 63 ,64 & 65	St. Oliver's Square- On Existing Camera Pole.	3 x 4 Megapixel IP Dome Cameras.	52.35978, -7.71934
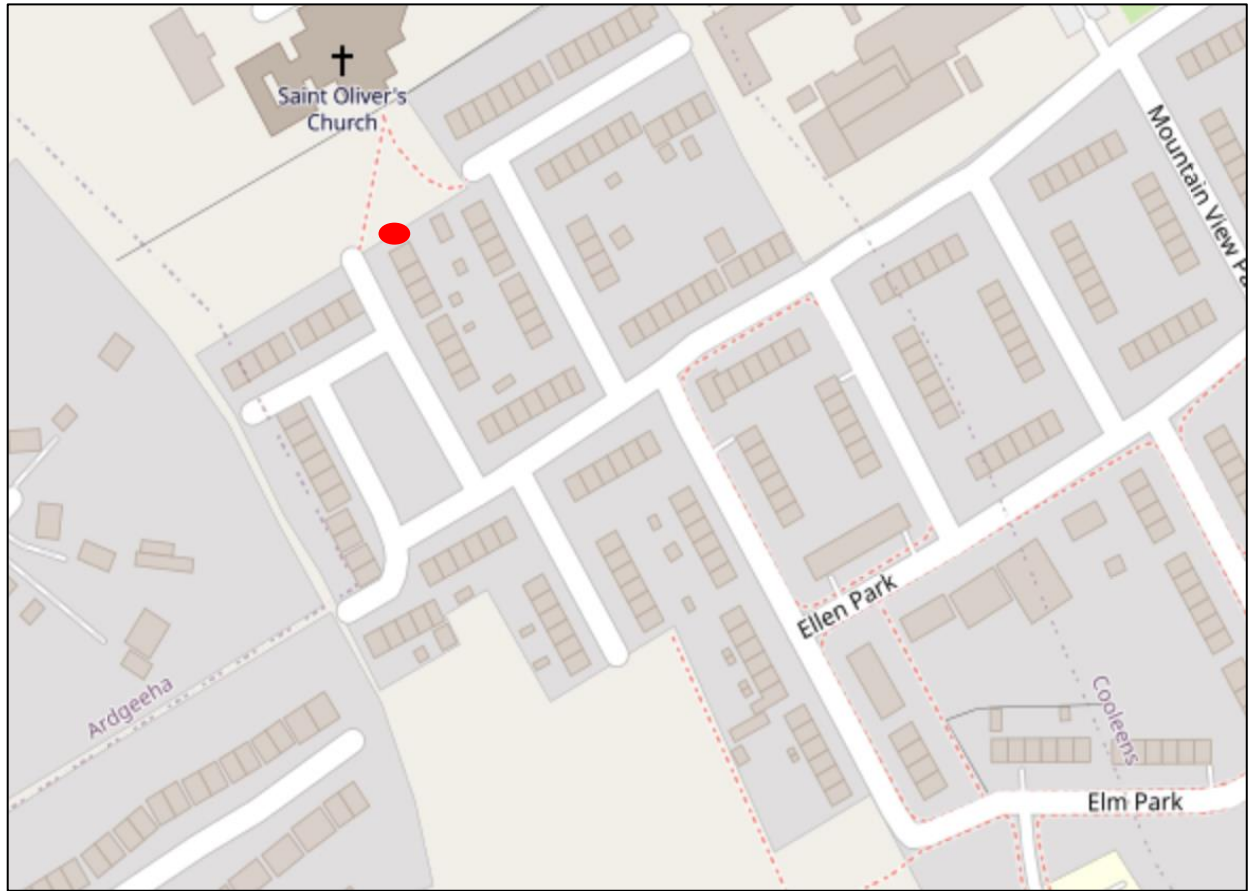
Location Number	Camera Number	Camera Location.	Camera Type	GPS Co-ordinates
36	No's 66, 67 &68	Beside Community Centre- On Existing Camera Pole.	3 x 4 Megapixel IP Dome Cameras.	52.35783, -7.71713

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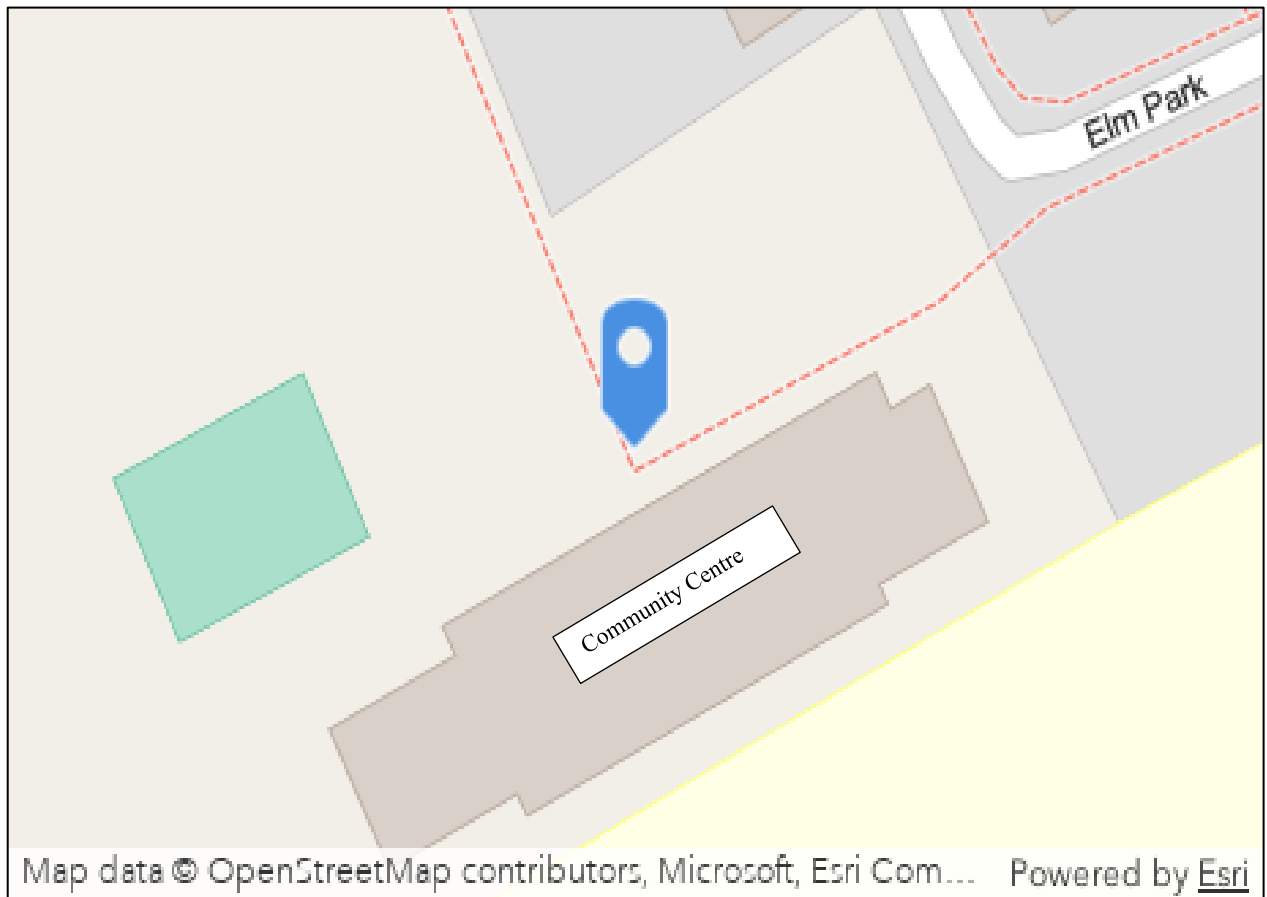
Location Number	Camera Number	Camera Location.	Camera Type	GPS Co-ordinates
37	No's 69, 70, 71 & 72	Elm Park Playground	4 x 4 Megapixel IP Dome Cameras.	52.35832, -7.71444

		- On Existing Camera Pole.		
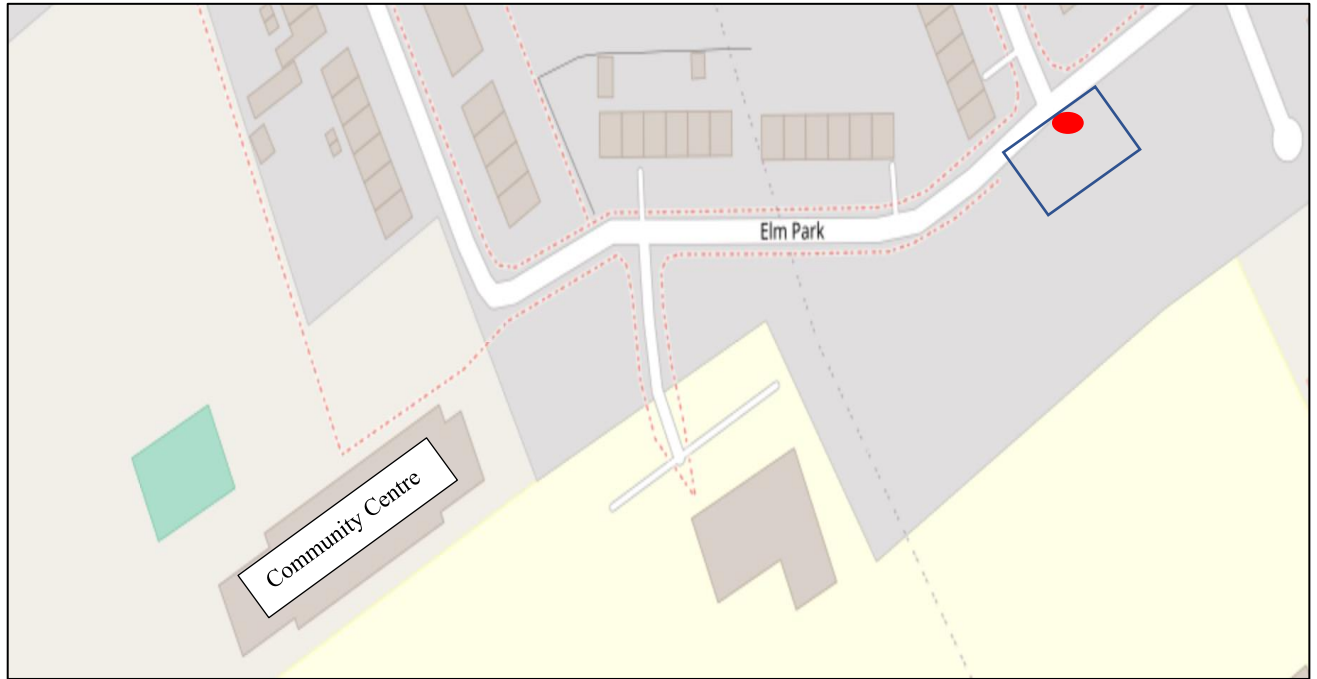
Location Number	Camera Number	Camera Location.	Camera Type	GPS Co-ordinates
38	No's 73- 74	St. Joseph's Tce- On Existing Camera Pole.	2 x 4 Megapixel IP Dome Cameras.	52.3592, -7.71429
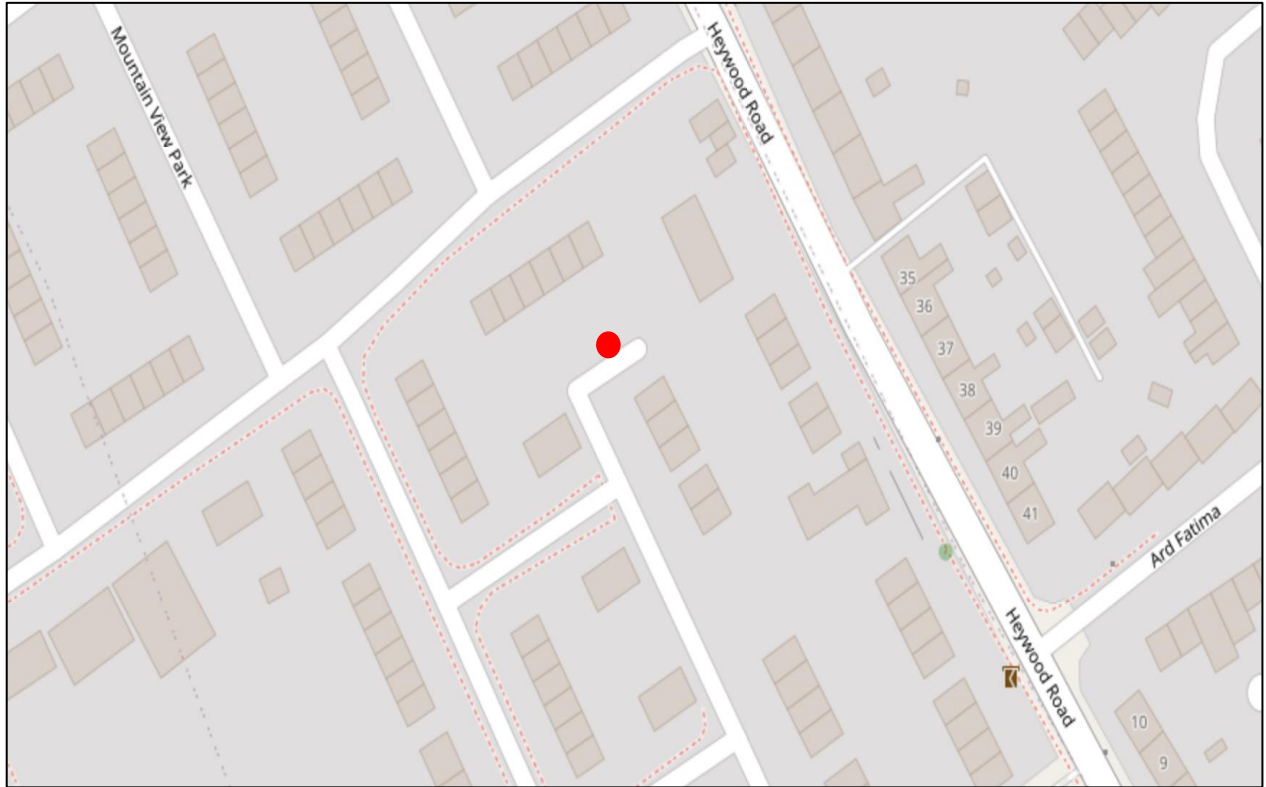
Location Number	Camera Number	Camera Location.	Camera Type	GPS Co-ordinates
39	No's 75, 76, 77 & 78	Mountain View adjacent to School - On	3 x 4 Megapixel IP Dome Cameras. 1 x LPR Camera- (Disabled)	52.36004, -7.71627

		Existing Camera Pole.		

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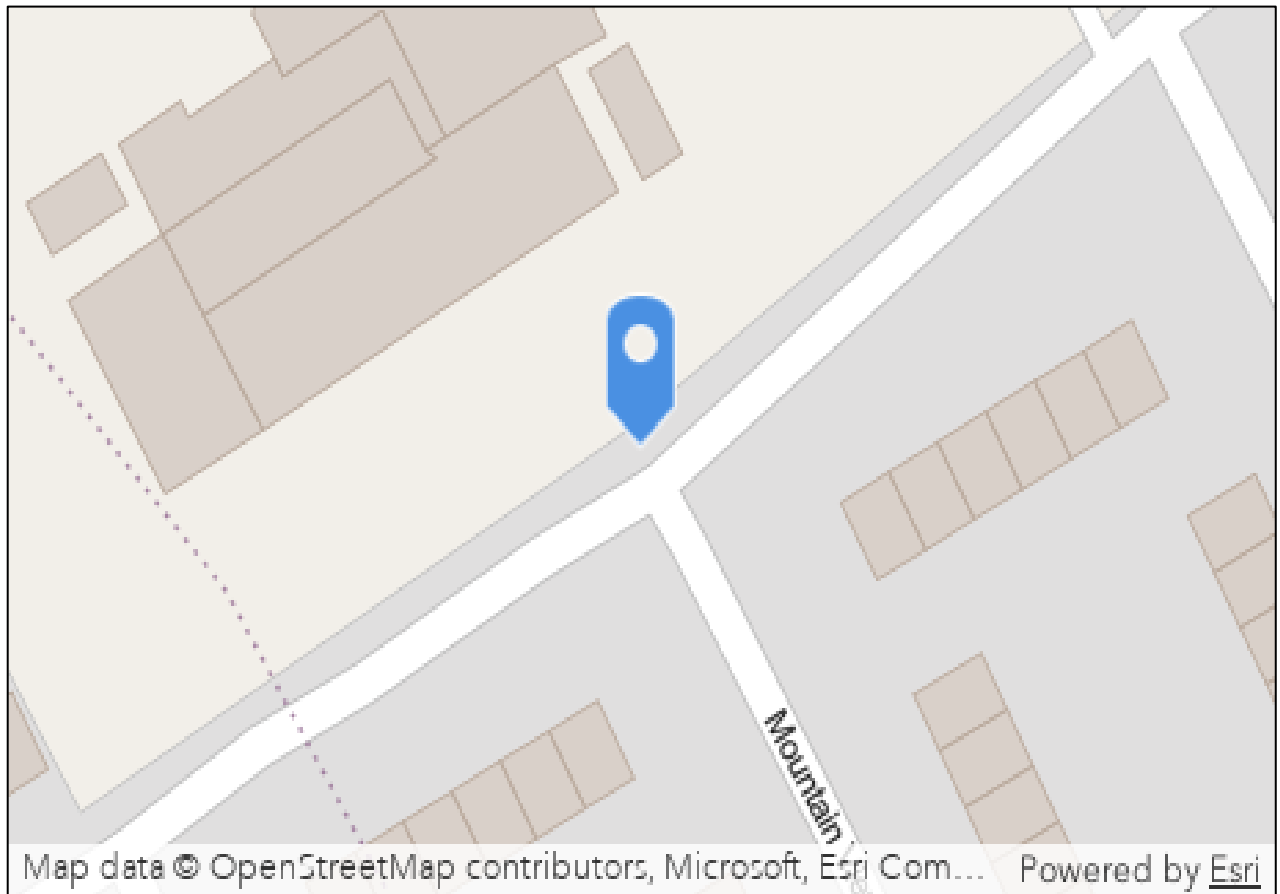
Location Number	Camera Number	Camera Location.	Camera Type	GPS Co-ordinates
40	No. 79 - 80	In Green area adjacent to House No. 50 St. Joseph's Tce.	1 x LPR Camera (Disabled) 1 x 4 Megapixel IP Dome Camera.	52.35966, -7.71435

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Location Number	Camera Number	Camera Location.	Camera Type	GPS Co-ordinates
41	No's 81, 82 & 83	Adjacent to Entrance to Cooleens Close on Dr. O'Callaghan Road.	3 x 4 Megapixel IP Dome Cameras.	52.3582, -7.70634

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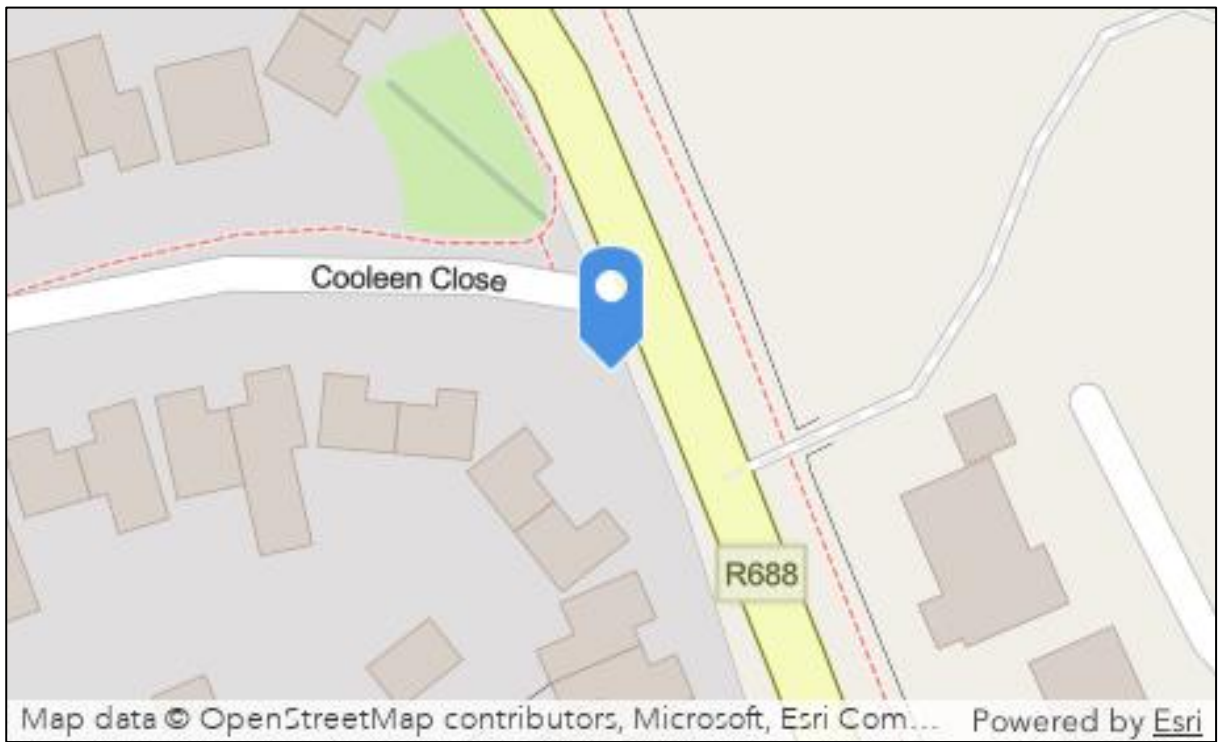
Location Number	Camera Number	Camera Location.	Camera Type	GPS Co-ordinates
42	No's 84, 85 & 86	St. Oliver Plunkett Tce., Cooleens Close	3 x 4 Megapixel IP Dome Cameras.	52.35731, -7.7078

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5.0   Summary of Proposed CCTV System.

5.1   The total number of **new** CCTV cameras proposed for Clonmel is **52** i.e.

- 2 x PTZ cameras – Town Centre. (New)
- 11 x 3 Lens Multisensor Cameras - Town Centre. (New)
- 4 x 4 Lens Multisensor Cameras – Town Centre (New).
- 2 x Fixed Lens Dome Cameras - Town Centre (New).
- 12 x Fixed Lens Dome Cameras - Suir Island. (New)
- 5 x Fixed Lens Dome Cameras - Davis Road Car Park. (New)
- 5 x Fixed Lens Dome Cameras - Heywood Road. (New)
- 11 x Fixed Lens Dome Cameras - Kickham Barracks. (New)

5.2   The total number of **existing** CCTV cameras to be re-utilised in the proposed new CCTV system in Clonmel is **34** ie. - all existing CCTV cameras in Elm Park & Cooleens Close.

5.3   Overall total = 86 cameras.

6.0 – Overview Map Showing CCTV camera Locations.

Example of CCTV Server, Cameras & Transmission Equipment..

5TH GENERATION NETWORK VIDEO RECORDERS

(16 TB) (24 TB) (32 TB) (48 TB) (64 TB) (96 TB) (128 TB) (192 TB) (224 TB)

(252 TB) (288 TB) (360 TB) (432 TB) (5-YEAR WARRANTY)
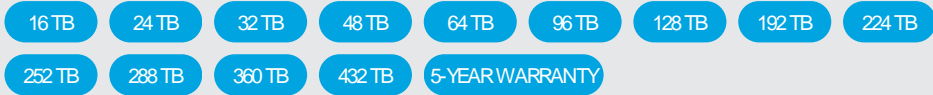
The fifth-generation Avigilon Network Video Recorder (NVR5) delivers unparalleled, high-performance recording, throughput, data availability, and protection for your Avigilon video security system. Featuring the densest storage capacity Avigilon has to offer on a single NVR, security teams can scale up to petabytes of storage at a single location, with up to 432 TB in storage per NVR. All NVR models come optimized with RAID technology, hot-swappable drives, and a five-year Avigilon warranty with dedicated support to increase system uptime and availability.

NVR5 PRM (252-432 TB)   NVR5 PRM (192-224 TB)   NVR5 STD (16-64 TB) and
                                                                         NVR5 PRM (96-160 TB)

FEATURES

FLEXIBLE & SCALABLE TIER-1 STORAGE

NVR5 offers flexible configurations for security teams to cost-effectively scale up to 432 TB in tier 1 storage capacity and tailor it to their unique retention requirements.

LOWER DEPLOYMENT COSTS WITH QUICK & SIMPLE DEPLOYMENT WITH ACC PRE-CONFIGURED

The NVR5 comes pre-configured with ACC software for secure network video recording and management of Avigilon cameras up to 61 MP resolution.

RESPOND FASTER WITH AI-POWERED ANALYTICS SUPPORT

Security teams can respond faster to critical events with the NVR5's seamless support for Avigilon Appearance Search, Facial Recognition, and LPR technologies.

STRENGTHEN CYBERSECURITY

Designed with cybersecurity in mind, the NVR5 comes with a TPM 2.0 module built-in to support hardware Root of Trust authentication and data encryption.

HIGH DATA AVAILABILITY

Reliable storage with RAID-configured redundancy offers a highly available and resilient system that protects your data. All our STD & PRM models include reliable hard drives with RAID 6/60 redundancy to tolerate up to 2/4 hard drive failures.

INCREASE SYSTEM UPTIME & PRODUCTIVITY

Sites that have connected to the cloud and subscribed to advanced system health[1] can take advantage of system health monitoring to increase system availability, streamline maintenance time and minimize on-site service calls.

RESOLVE TECHNICAL ISSUES EXPEDIENTLY WITH A SINGLE-POINT-OF-CONTACT

In addition to lifetime 24/7 Avigilon telephone technical support for the Avigilon End-to-End solution, five-year onsite parts and repair service is also included with 24/7 4-hour response SLA[2] for NVR5 PRM, or Next Business Day for NVR5 STD.

EASY RECOVERY SOLUTION

Designed with a separate and redundant array of Solid-State Drives for the operating system (PRM and STD), with a built-in recovery partition to simplify the recovery process, if needed.

[1] On NVR5 PRM 252-432 TB, ACC 7.14.8 or later is required for full advanced system health functionality.

[2] Warranty coverage and support Service Level Agreement is subject to end user's geographic location. Please refer to https://www.avigilon.com/support/warranty/avigilon for more information.

MOTOROLA SOLUTIONS

avigilon™

avigilon™
a Motorola Solutions Company

H5SL Camera Line

1.3 MP　**2 MP**　**3 MP**　**5 MP**

Features

UNUSUAL MOTION DETECTION
Uses AI to notify you of unusual events that might otherwise have been missed, offering increased situational awareness and helping you effectively monitor more cameras.

LIGHTCATCHER™ TECHNOLOGY
Offers exceptional detail in areas with low lighting.

DUAL EXPOSURE WIDE DYNAMIC RANGE
Capture details in scenes with both very bright and dark areas.

ONVIF® COMPLIANT
Built on an open platform to allow integration with other security solutions.

MULTIPLE LENS OPTIONS
Choose from various lens types, including long zoom, for flexible coverage options.

HDSM SMARTCODEC

H.265 WITH HDSM SMARTCODEC™ TECHNOLOGY
Optimizes compression levels for regions in a scene to help maximize bandwidth savings, helping to keep internet connectivity costs down.

ADAPTIVE INFRARED (IR)
Automatically adjusts IR beam width and exposure settings based on scene conditions to help maximize image quality.

RELAY I/O CONNECTIONS
Incorporate and configure input/output actions and alarms for fast event response.

MADE IN NORTH AMERICA AND 5 YEAR WARRANTY
Manufactured in North America* using globally-sourced materials and North American expertise, Avigilon stands behind the quality of its products. Backed by a 5 year warranty.

ONVIF is a trademark of Onvif, Inc.

SUPPORT asksales@avigilon.com | avigilon.com

* With manufacturing facilities in both the United States and Canada, our "Made In North America" claim only applies to products from our Plano, Texas and Richmond, British Columbia facilities.

H5A PTZ CAMERA

2MP

The Avigilon H5A Pan-Tilt-Zoom (PTZ) camera brings wide area coverage, high-speed movement and long range, evidentiary detail for security operators to monitor large areas with ease. As an Avigilon H5 platform camera, the H5A-PTZ camera is embedded with Next-Generation Video Analytics for enhanced object detection and classification, Unusual Activity Detection (UAD), along with support for Facial Recognition technology and Avigilon Appearance Search™ technology to help ensure critical events do not go unnoticed.

FEATURES

NEXT-GENERATION VIDEO ANALYTICS
Detects more objects with expanded object classifications and greater accuracy for faster responses, even in crowded scenes.

H.264 AND H.265 WITH HDSM SMARTCODEC™ TECHNOLOGY
Optimizes compression levels for regions in a scene to help maximize bandwidth savings and keep internet connectivity costs down.

LIGHTCATCHER™ TECHNOLOGY
Offers exceptional detail in areas with low lighting.

ONVIF® COMPLIANT
Native ONVIF Profile S, T, and G compliance allows easy integration with existing ONVIF infrastructures.

EASY TRANSITION FROM H4 PTZ TO H5A-PTZ
Field-replaceable parts allow for an easy transition from H4 PTZ cameras to H5A-PTZ cameras.

ONVIF is a trademark of Onvif, Inc.

LONG RANGE DETAIL
2 MP with 36x zooming capabilities sets a new standard for high-performance 36x PTZ cameras with greater evidentiary detail.

WATER, IMPACT AND ENCLOSURE RATED
IP66/67 rating for water resistance, IK10 impact rating for vandal resistance and NEMA 4X enclosure rating for windblown dust, water (e.g. rain, hose-directed water), and corrosion resistance.

TRUE WIDE DYNAMIC RANGE
Captures details in scenes with both very bright and dark areas.

FIPS 140-2 COMPLIANT
Brings increased data security with FIPS-compliant cryptography enabled on cameras[1].

WIDE AREA COVERAGE
Provides 360° zoomable views in high-resolution to monitor large areas with ease.

[1] Optional purchase of FIPS Level 1 camera license or CRYPTR microSD hardware-based encryption and key management for FIPS Level 3 support and certification.

MOTOROLA SOLUTIONS

H4 Multisensor Camera Line

You're Covered from All Angles

The H4 Multisensor camera line combines Avigilon self-learning video analytics with exceptional coverage, featuring three or four individually adjustable camera sensors that can be positioned to monitor virtually any area.

Avigilon Self-Learning Video Analytics
Exceptional ef ciency when monitoring and reviewing video with excellent coverage from a single camera.

Up to 32 MP Total Resolution
Provides exceptional coverage and image detail by combining the power of three or four multi-megapixel camera sensors.

Content Adaptive IR Technology
Provides up to 30 meters (100 feet) of consistent lighting and exceptional imaging in low light conditions.
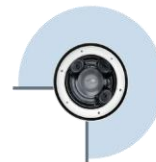
Open, Standards-Based Interoperability
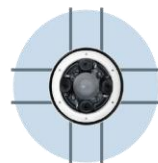ONVIF®Prof le S and Prof le T compatible to support new encoding formats and image settings.
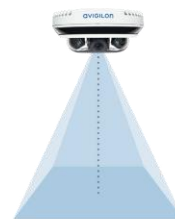
180° Coverage

270° Coverage

360° Coverage

93° Sensor Angle

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airMAX® ac Sector

2x2 MIMO BaseStation Sector Antenna

Models: AM-5AC21-60, AM-5AC22-45

Advanced Noise Immunity

Superior Beam Performance

Enhanced Scalability of airMAX® Networks

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Uniform Beamwidth Maximizes Noise Immunity

Dedicated Wi-Fi Radio for Management

airMAX ac Processor for Superior Performance

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PowerBeam® ac ISO

5 GHz airMAX® ac Bridge with RF Isolated Reflector

Models: PBE-5AC-300-ISO, PBE-5AC-400-ISO, PBE-5AC-500-ISO

Uniform Beamwidth Maximizes Noise Immunity

Integrated Isolator Design Improves RF Isolation

High-Speed Processor for Superior Performance

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<u>Specification for Camera Pole.</u>