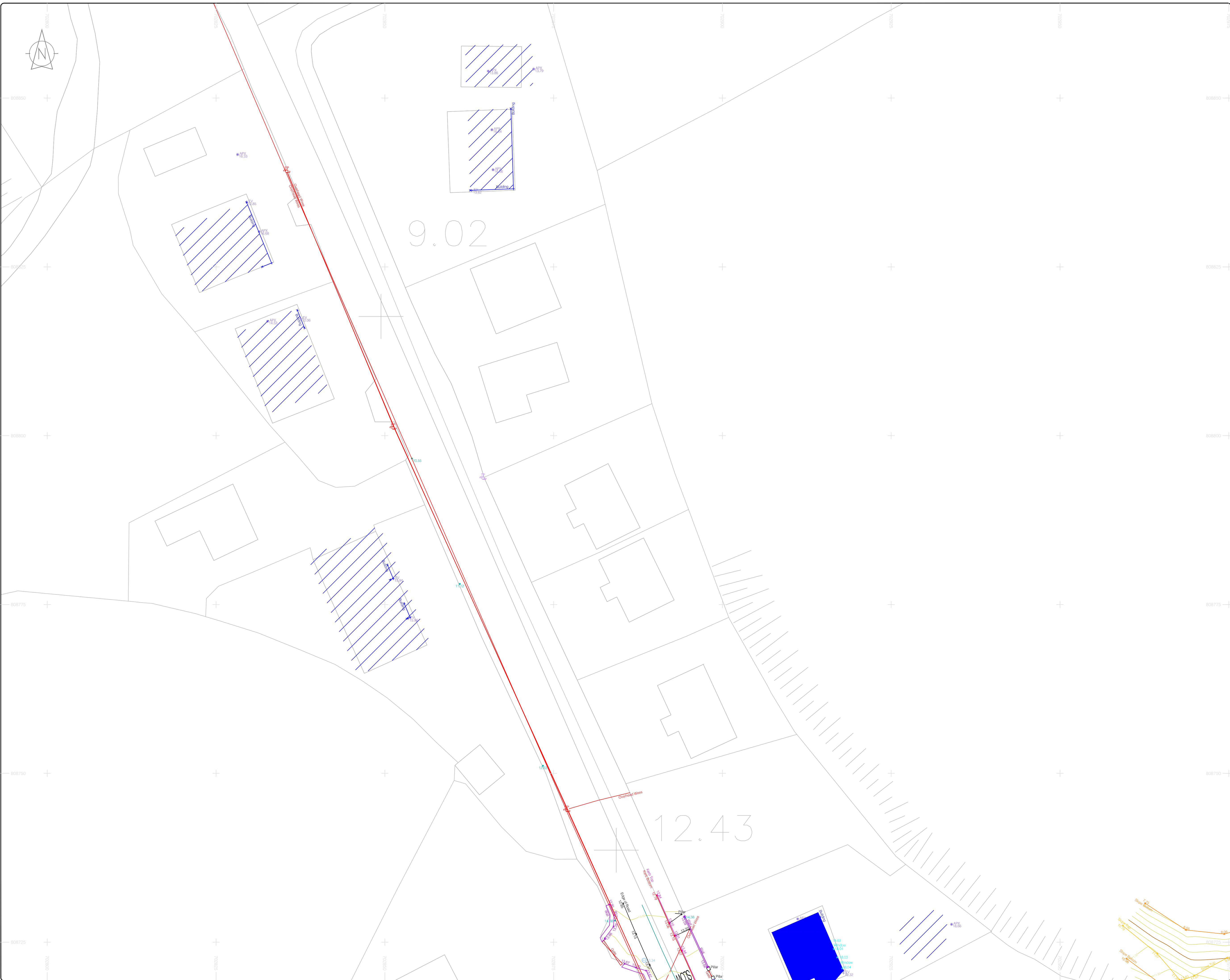
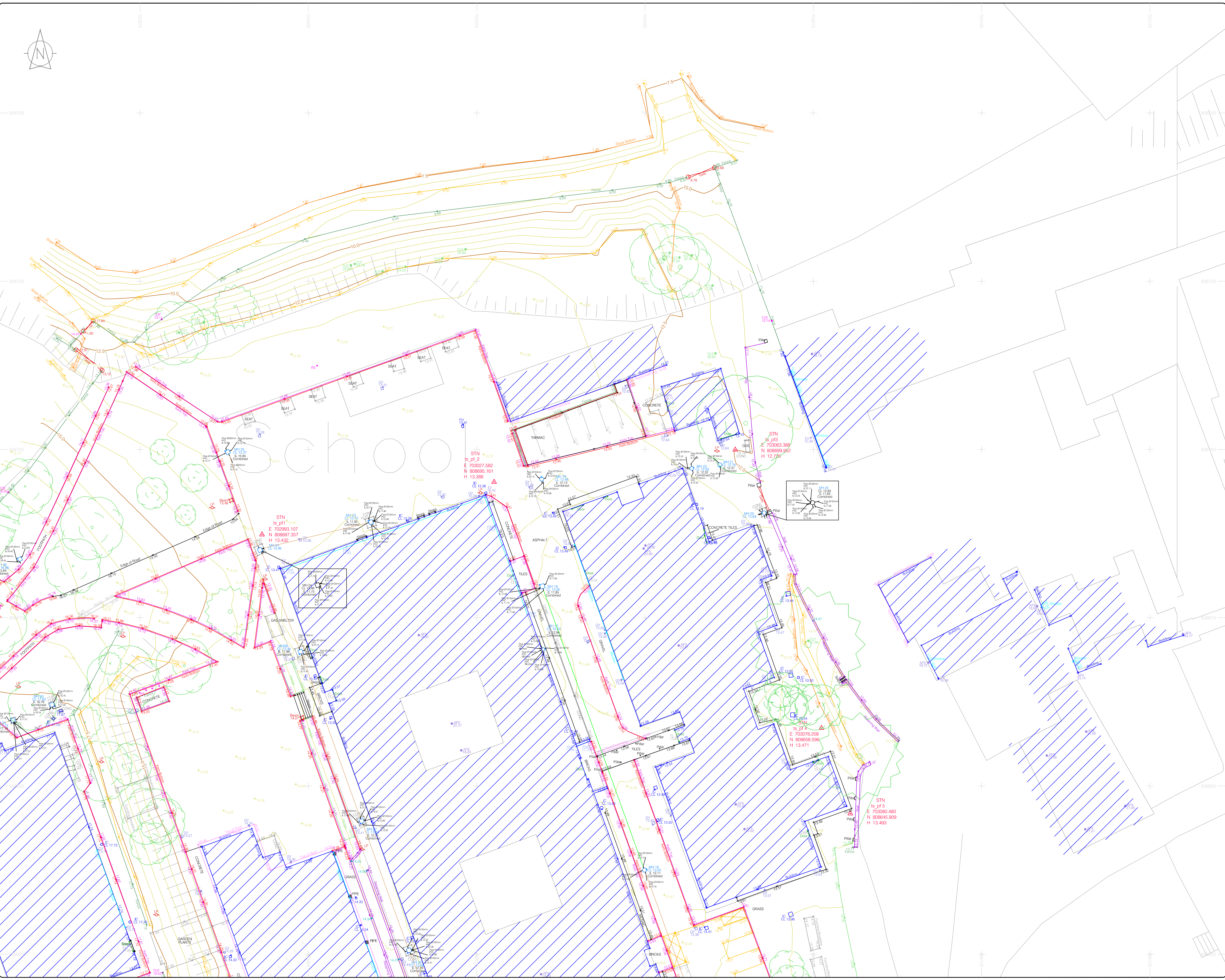


[illegible]



LEGEND

Street furniture & Services

Over Head Wires (LUAS) - Pylon ESB	Manhole	Phone Box
Flowerbed	Ballard	Drain
Pipe	Beacon	Kiosk
Lift	Coatline Cover	UG Vents
Barrier	Bore Hole	Waste Bin
Pump	Electricity Pole	Hydrant
Trial Pit	Telegraph pole	File Hydrant
Bus/Tram Shelter	OCSS Pole	ESB Box
Postbox	OCSS Camera Pole	ESB Inspection Cover
Valve - General	UP Lamp Post	Trails Control Box
Water Valve	Gas Valve	LUAS Technical Guide
Sluice Valve	Surface Water MH	Ticket Vending Machine
Air Valve	Manholes	Water Meter Cover
Stop Cock	Air Conditioning Vents	Telecom Inspection Cover
C P Post	Services Inspection Cover	Monument / Toilets
Marker Post	Traffic Inspection Cover	Tank Storage
Traffic Light	Cable TV Inspection Cover	Basement MH Cover & Pipe
Parking Meter	ESAT Inspection Cover	Drain for pipe
HTL Inspection Cover	ESAT Inspection Cover	Spot for pole
Smart Card Validator	ESAT Inspection Cover	Spot for pole
Unknown Valve	Rodding Eye	Washout

Natural Features

Surface Change	Water Level	Fair Way
Land Drain	Crown Level	Green
Bottom of Slope	Invert level	Tee Box
Top of Slope	Bed Level	Other
Ditch	Spotlight	Survey Station
Water Edge / Lake / Pond		Photo point
Hedge / Trees Drip Line / Vegetation		
Tree Contours	Tree Deciduous	Top of Tree

Built Features

Roads & Road Markings

Building	Fence	Floor Level
Edge of Road	Gate	Apex Height
Kerb Bottom	Road Centreline	Eaves Height
Kerb Top	Top of Wall	Parapet Height
Bridge Abutment	Hoarding	Soft Elevation
Bridge Deck	Property Line	Step Level
Bridge Pier	Road Scar	Concrete Pad
Building Facade	Top of Fence	Track
Footpath / Platform Train & Tram	Wall / Retaining Wall	
Damp Proof / Course / Vege	Railway / Tram Rail / Grating / Ramp	
Bridge Pier / Wall & Gate Pillar / LUAS Trackbed	Building Canopy / Roof / Overhang	
Cyclery / Private Landing Area		

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Site Location

Map Sheet Layout

Drawn by: PF	Date: April 2019	Datum: Main Head
Checked by: CC	Date: April 2019	Grid System: Irish National Grid
Checked by: PK	Date: 23.04.2019	Revisions:

No	Date	Description
0	23.04.2019	First Drawing
1	30.04.2019	No. of 23 Mtd details added
2	24.05.2019	WFS and Parapet line added

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Topographic surveys, Measured Building Surveys,
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Kilcullen Co. Kildare
Ireland

Phone: (+353) 045 484040
Fax: (+353) 045 484004
Email: info@murphysurveys.ie

Client: Duffy Chartered Engineers Irl

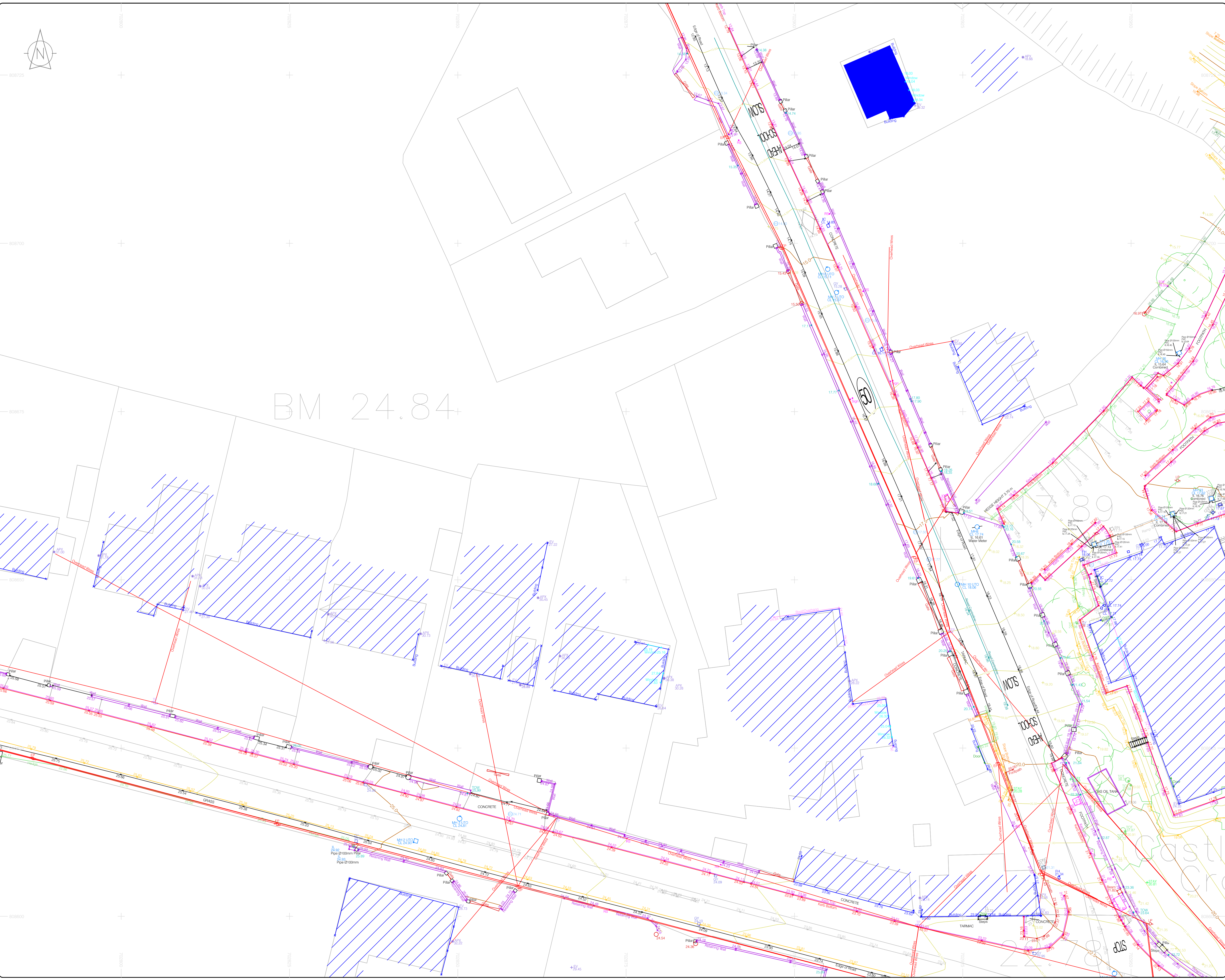
Project: De La Salle College Dundalk

Date: 23.04.2019 **Scale:** 1:250@A1

Description: Topographical Survey

Drawing Number: MSL29632_T_ITM_Rev2_02

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LEGEND
Street furniture & Services

Over Head Wires (LUAS) - Pylon ESB	Manhole	Phone Box
Flowerbed	Ballast	Drain
Pipe	Beacon	Kiosk
Barrier	Coalhole Cover	Waste Bin
Pump	Bore Hole	Hydrant
Trial Pit	Electricity Pole	File Hydrant
Bus/Tram Shelter	Telegraph pole	ESS Box
Postbox	OCS Pole	ESS Inspection Cover
Valve - General	OCS Camera Pole	Trails Control Box
Water Valve	Lamp Post	LUAS Technical Guide
Gas Valve	Foul Manhole	Ticket Vending Machine
Sluice Valve	Surface Water MH	Water Meter Cover
Air Valve	Manholes	Telecom Inspection Cover
Stop Cock	Air Conditioning Vents	Monument / Toilets
C P Post	Services Inspection Cover	Tank Storage
Marker Post	Traffic Inspection Cover	Cable TV Inspection Cover
Traffic Light	Cable TV Inspection Cover	ESAT Inspection Cover
Parking Meter	ESAT Inspection Cover	Day for pole
Plane Aerial Mark	HTL Inspection Cover	Stay for pole
Smart Card Validator	Excom Inspection Cover	Pipe Protection
Unknown Valve	Rodding Eye	Washout

Natural Features

Surface Change	Water Level	Fair Way
Land Drain	Crown Level	Green
Bottom of Slope	Invert level	Tee Box
Top of Slope	Bed Level	Other
Ditch	Spotheight	Survey Station
Water Edge / Lake / Pond	Tree Deciduous	Top of Tree
Hedge / Trees Drip Line / Vegetation	Tree Coniferous	

Built Features
Roads & Road Markings

Building	Fence	Floor Level
Edge of Road	Gate	Apex Height
Kerb Bottom	Road Centreline	Eaves Height
Kerb Top	Top of Wall	Parapet Height
Bridge Abutment	Hoarding	Soft Elevation
Bridge Deck	Property Line	Step Level
Bridge Parapet	Road Scar	Concrete Pad
Building Facade	Top of Fence	Track
Footpath / Platform Train & Tram	Wall / Retaining Wall	
Damp Proof Course / Verge	Railway / Tram Rail / Grating / Ramp	
Bridge Pier / Wall & Gate Pier / LUAS Trackbed	Building Canopy / Roof / Overhang	
Cycleway / Private Landing Area		

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Site Location

Map Sheet Layout

Drawn by: FF	Date: April 2019	Datum: Main Head
Checked by: CC	Date: April 2019	Grid System: Irish National Grid
Checked by: PK	Date: 23.04.2019	Revisions

No	Date	Description
0	23.04.2019	First Drawing
1	30.04.2019	No. of 23 Mtd details added
2	24.05.2019	WFL and Parapet line added

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Ireland

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Client: Duffy Chartered Engineers Irl

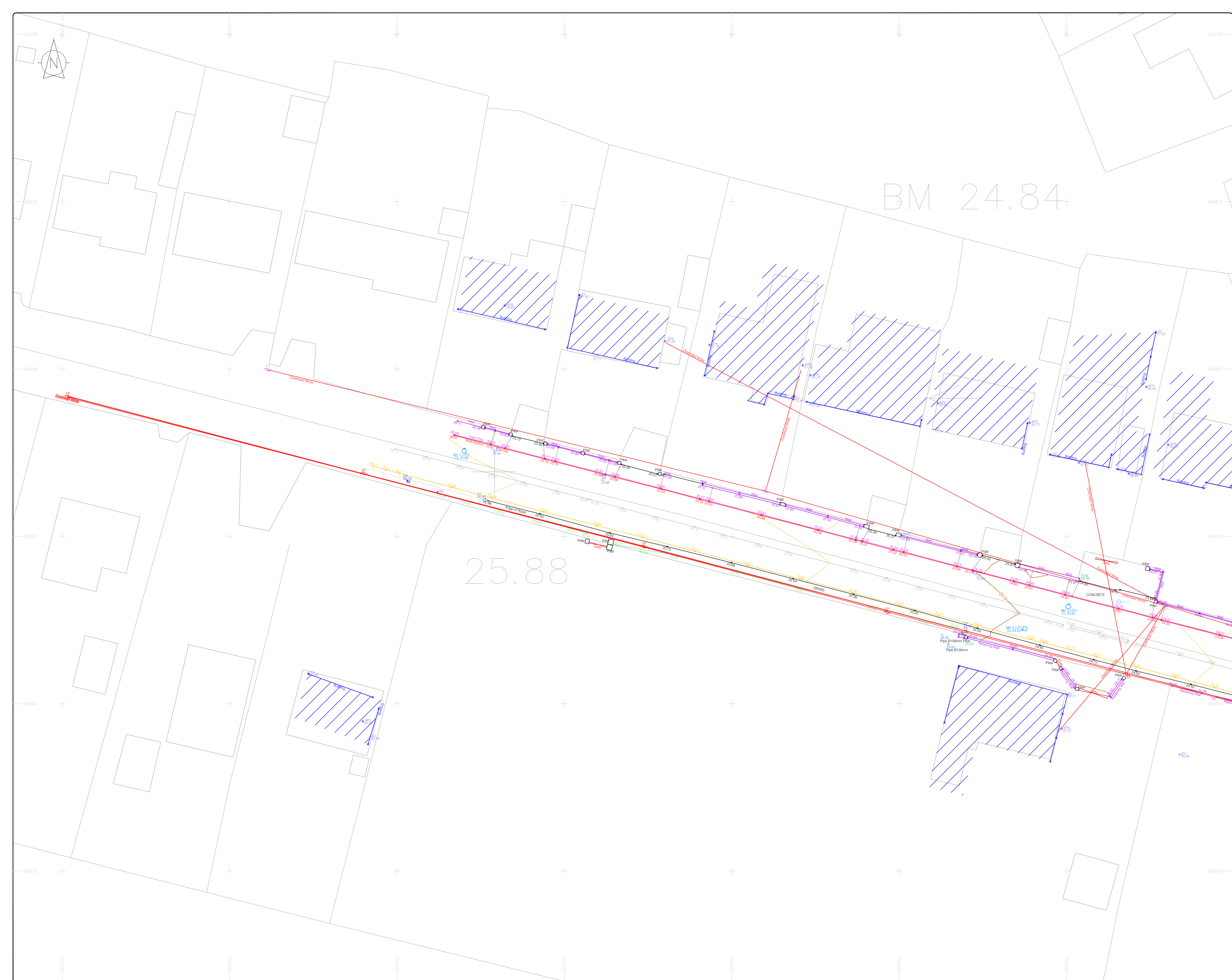
Project: De La Salle College Dundalk

Date: 23.04.2019 **Scale:** 1:250@A1

Description: Topographical Survey

Drawing Number: MSL29632_T_ITM_Rev2_03

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LEGEND													
Street furniture & Services													
	5.42	Over Head Wires (LWS)		5.43	Hydrant ESB		5.44	Road Sign		5.45	Phone Box		
	5.46	PowerStreet		5.47	Manhole		5.48	Trench Box		5.49	Gas Valve		
	5.50	Pole		5.51	Bin		5.52	Kiosk		5.53	Gas Cover		
	5.54	Light		5.55	BEAN Beacon		5.56	GU		5.57	GUPS	5.58	C.P. Box
	5.59	Barrier		5.60	CO		5.61	Coatlock Cover		5.62	UG Gas Per Vent		
	5.63	Pump		5.64	BO		5.65	Bole Hole		5.66	Waste Bin		
	5.67	Triat Pit		5.68	Electricity Pole		5.69	Hydrant					
	5.70	Bus/Traffic Shelter		5.71	Telephone pole		5.72	Fire Hydrant					
	5.73	Postbox		5.74	Electric Box		5.75	ESB Box					
	5.76	General		5.77	UG Gas Cover		5.78	ESB Box					
	5.79	Water Valve		5.80	Lamp Post		5.81	Traffic Control Box					
	5.82	Gas Valve		5.83	FMS		5.84	FMS		5.85	UG Gas Valve		
	5.86	Suicide Valve		5.87	Surface Water MH		5.88	LUAS Technical Cabinet					
	5.89	Air Valve		5.90	Manholes		5.91	Water Meter Cover					
	5.92	Stop Clock		5.93	Air Conditioning Vents		5.94	Telecom Inspection Cover					
	5.95	C.P. Box		5.96	Services Inspection Cover		5.97	Manorment / Toilet					
	5.98	Water Post		5.99	Traffic Inspection Cover		5.100	Sham Shop					
	5.101	Traffic Light		5.102	UG Gas Cover		5.103	UG Gas Cover & Pipe					
	5.104	Planting Mark		5.105	ESAT Inspection Cover		5.106	Dished Aerial Mast					
	5.107	Plant Area Mark		5.108	NTS Inspection Cover		5.109	Star for pole					
	5.110	Smart Card Validator		5.111	Enorm Inspection Cover		5.112	Pipe Protection					
	5.113	Unknown Valve		5.114	Roading Eye		5.115	Washout					
Natural Features													
Golf													
	5.116	Surface Change		5.117	WVLV		5.118	FWAY		5.119	Far Way		
	5.120	Land Drain		5.121	CHNN		5.122	Crown Level		5.123	Green		
	5.124	Bottom of Slope		5.125	UG Inspection Cover		5.126	GREEN		5.127	Tree Box		
	5.128	Drain		5.129	BL		5.130	Bed Level		5.131	Other		
	5.132	Deck		5.133	Sleeping spot		5.134	SH		5.135	Shower Station		
	5.136	Water Edge / Lake / Pond		5.137	Tran		5.138	Tran		5.139	Photo point		
	5.140	Hedge / Tree Discontinuity / Vegetation		5.141	Tree Deciduous		5.142	Top of Tree		5.143	Top of Tree		

Build Features

Roads & Road Markings

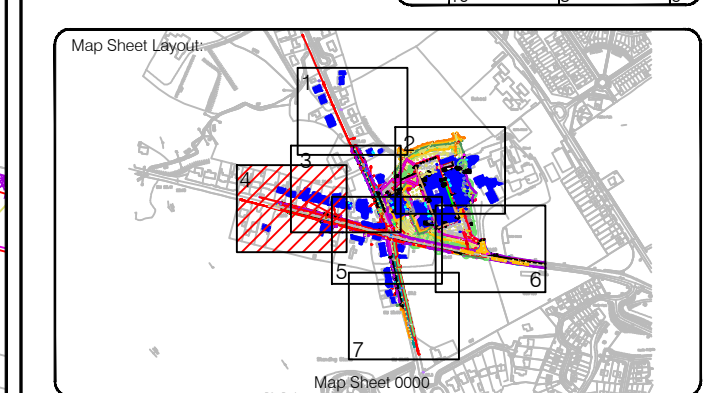
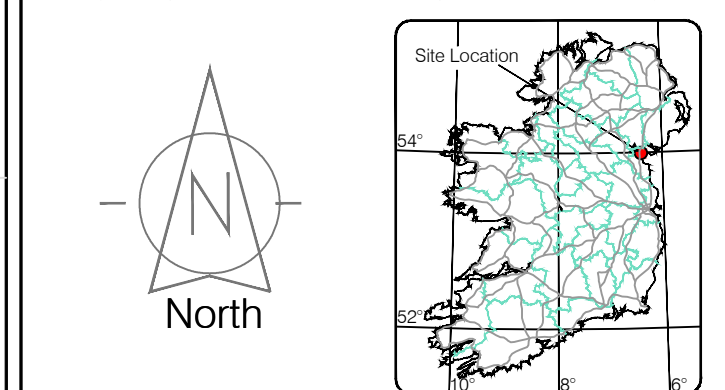
5.3.2 Building	5.3.2 Fence		Floor Level
5.3.2 Edge of Road	5.3.2 Gate		Apex Height
5.3.2 Kerb Bottom	5.3.2 Road Centreline		Excess Height
5.3.2 Kerb Top	5.3.2 Top of Wall		Parapet Height
5.3.2 Bridge Abutment	5.3.2 Property Line		Soils Elevation
5.3.2 Bridge Deck	5.3.2 Road Scar		Shall Level
5.3.2 Bridge Pier/Abutment	5.3.2 Top of Fence		Concrete Pad
5.3.2 Bridge Road Flag			Tracks
5.3.2 Platform / Tram Train	5.3.2 Wall / Retaining Wall		
5.3.2 Dump Pond / Course / Hinge	5.3.2 Railway / Tram Rail / Guiding / Ramp		
5.3.2 Bridge Pier / Wall & Gable Area / LIAS Taskbed	5.3.2 Building Course / Roof / Overhang		
5.3.2 Occlude / Private Landscaping Area			

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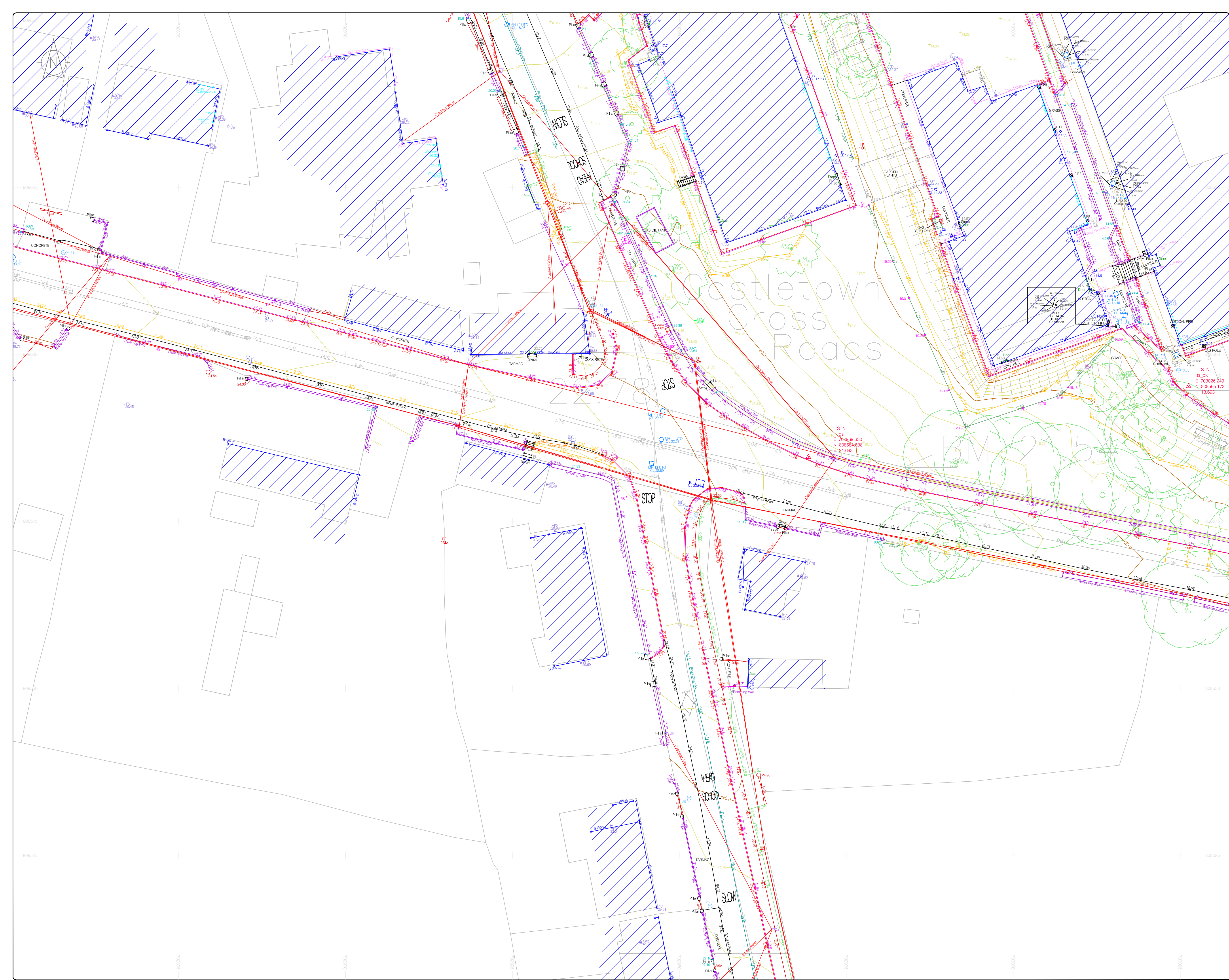
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[illegible]

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Email: info@murphysurveys.ie

Client :	
Duffy Chartered Engineers Srl	
Project :	
De La Salle College Dundalk	
Date :	Scale :
23.04.2019	1:250/@A1
Description :	
Topographical Survey	
Drawing Number :	
MSL29632_T_ITM_Rev2_04	



LEGEND

Street furniture & Services

Over Head Wires (LUAS) - Pylon ESB

Flowerbed

Pipe

Lift

Barrier

Pump

Trial Pit

Bus/Tram Shelter

Postbox

Valve - General

Water Valve

Gas Valve

Sluice Valve

Air Valve

Stop Cock

C P Post

Marker Post

Traffic Light

Parking Meter

Plane Aerial Mark

Smart Card Validator

Unknown Valve

Bus Stop

Beacon

Coatline Cover

Bore Hole

Electricity Pole

Telegraph pole

OCS Pole

CCTV Camera Pole

Lamp Post

Surface Manhole

Foul Manhole

Manholes

Air Conditioning Vents

Services Inspection Cover

Traffic Inspection Cover

Cable TV Inspection Cover

ESAT Inspection Cover

NIL Inspection Cover

Excom Inspection Cover

Rodding Eye

Road Sign

Ballast

Gully

UG Car Park Vent

Waste Bin

Hydrant

File Hydrant

ESS Box

ESS Inspection Cover

Trunk Control Box

LUAS Technical Cabinet

Ticket Vending Machine

Water Meter Cover

Telecom Inspection Cover

Monument / Toilets

Tank Storage

Basement, MH, Cover & Pipe

Disped Aerial Mark

Stay for pole

Pipe Protection

Washout

Natural Features

Water Level

Crown Level

Invert level

Bed Level

Spotheight

Water Edge / Lake / Pond

Hedge / Trees Drip Line / Vegetation

Tree Deciduous

Golf

Fair Way

Green

Tee Box

Other

Survey Station

Photo point

Built Features

Roads & Road Markings

Fence

Gate

Road Centreline

Top of Wall

Hoarding

Property Line

Road Scar

Top of Fence

Wall / Retaining Wall

Railway / Tram Rail / Gearing / Ramp

Building Canopy / Roof / Overhang

Cyclway / Private Landing Area

Floor Level

Apex Height

Eaves Height

Parapet Height

Soft Elevation

Step Level

Concrete Pad

Track

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Site Location

Map Sheet Layout

Map Sheet 0006

Prepared by: PF

Drawn by: CC

Checked by: PK

Date: April 2019

Date: April 2019

Date: 23.04.2019

Datum: Main Head

Grid System: Irish National Grid

UTM

Revisions

No

Date

Description

1

23.04.2019

First Drawing

2

30.04.2019

No. of 23 Mht details added

3

24.05.2019

WFL and Parapet line added

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Client :

Duffy Chartered Engineers Irl

Project :

De La Salle College Dundalk

Date : 23.04.2019

Scale : 1:250@A1

Description :

Topographical Survey

Drawing Number :

MSL29632_T_ITM_Rev2_05

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LEGEND									
Street furniture & Services									
	Over Head Wires (LWS)		Hydro ESB		Signpost		Trash Box		Phone Box
	Powerlines		BBQ		Benches		Handicap		Public Toilet
	Pole		Billboard		Kiosk		Gas Cover		Gas Cover
	Lift		BEAN		Can		Utility Cyls		C.P. Box
	Barrier		CO	Coatlock Cover		UGS Gas Post Vert			
	Pump		BO	Bore Hole		Waste Bin			
	Trail Post		EP&S	Electricity Pole		Hydrant			
	Bus/Traffic Shelter		TT	Telephone pole		Pole Hydrant			
	Postbox		CP	Can		EB&S Box			
	Water Control Valve		CP	CP	Garage Pole		Electric Control Box		
	Gas Valve		UG	Lamp Post		Traffic Control Box			
	Gas Valve		FM	Flow Meter		LWS	LUAS Technical Machine		
	Stuative Valve		MC	Surface Water MH		UKS	Vertical Cabinet		
	Air Valve		MC	Manholes		Water Meter Cover			
	Stop Clock		AC	Air Conditioning Units		Teecomm Inspection Cover			
	C.P. or P. Cover		SI	Services Inspection Cover		Manorment / Tolls			
	Handicapped Post		CTC	Can		Signpost			
	CTC Traffic Light		CTC	Can		Inspection Cover			
	Planting Mark		ES&T	Electricity Cover		X&M	Drilled Asset Mark		
	Plant Area Mark		IGN	NTS Inspection Cover		+ST&T	Sign for pole		
	Smart Card Validator		EN	Environ Inspection Cover		+PP	Pipe Protection		
	Unknown Valve		C	Roading Eye		W	Washout		
Natural Features									
Golf									
	Surface Change		+W&V	Water Level		FW&V	Far Way		
	Landscape		+CH&N	Crown Level		GR&E	Green		
	Bottom of Slope		+B&L	Bed Level		TR	Tree Box		
	Drain		+C&S	Spring point		SH	Shelter		
	Water Edge / Lake / Pond					SH	Shelter		
	Hedge / Tree Line / Vegetation					SH	Shelter		
	Tree Deciduous		G	Tree Deciduous		SH	Shelter		
	Tree Coniferous		G	Tree Coniferous		SH	Shelter		
	Top of Tree		G	Top of Tree		SH	Shelter		

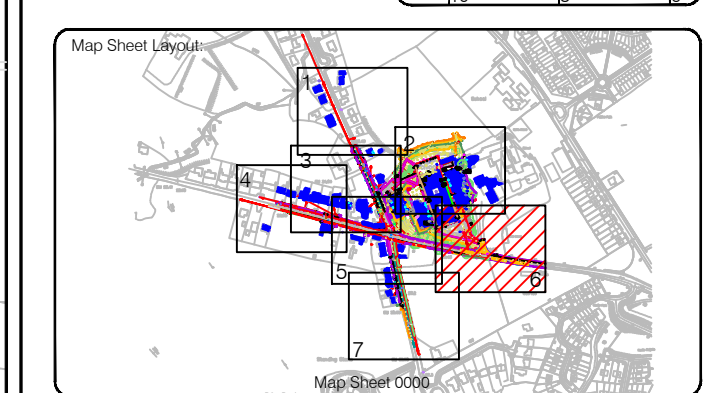
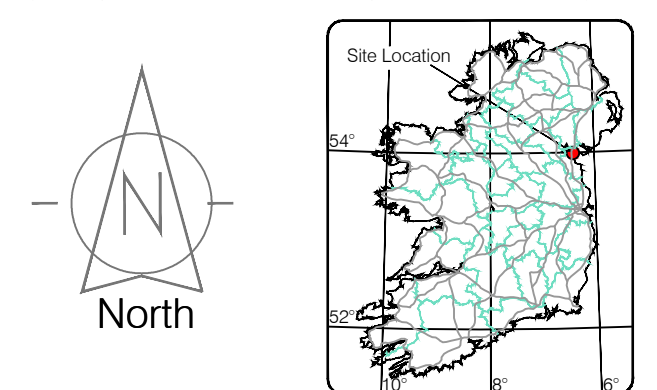
Build Features					
Roads & Road Markings					
5.4.2	Building	5.4.2	Fence	+100	Floor Level
5.4.2	Edge of Road	5.4.2	Gate	+100	Apex Height
5.4.2	Kerb Bottom	5.4.2	Gate	+100	Apex Height
5.4.2	Kerb Top	5.4.2	Top of Wall	+100	Penetration Height
5.4.2	Bridge Abutment	5.4.2	Hoarding	+100	Soft Elevation
5.4.2	Bridge Deck	5.4.2	Property Line	+100	Step Level
5.4.2	Building Facade	5.4.2	Road Scar	+100	Concrete Paved
5.4.2	Building Fingert	5.4.2	Top of Fence	+100	Track
5.4.2	Flooded / Platform Train & Tram	5.4.2	Wall / Retaining Wall	+100	
5.4.2	Depth / Point / Course / Verge	5.4.2	Railway / Train Rail / Gating / Ramp	+100	
5.4.2	Bridge Pier / Wall & Gate Pillar / LVIAS Trackbed	5.4.2	Building Curb / Road / Overhang	+100	
5.4.2	Cycleway / Private Landscaping				

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Client :	
Duffy Chartered Engineers Srl	
Project :	
De La Salle College Dundalk	
Date :	Scale :
23.04.2019	1:250/@A1
Description :	
Topographical Survey	
Drawing Number :	
MSL29632_T_ITM_Rev2_06	

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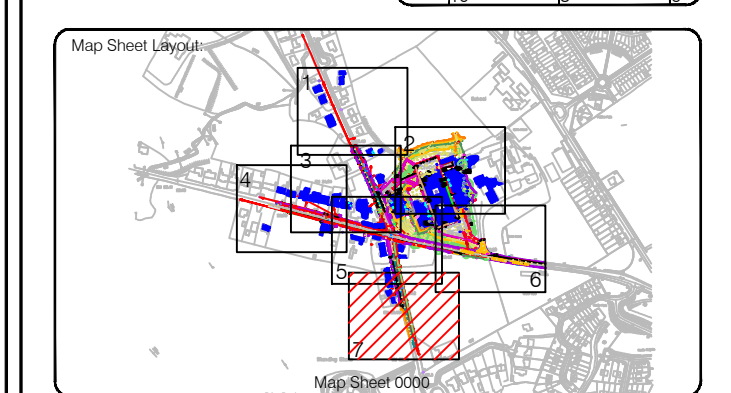
Build Features					
Roads & Road Markings					
5.42	Building	5.42	Fence	+1.00	Floor Level
5.42	Edge of Road	5.42	Gate	+1.00	Area Height
5.42	Keel Bottom	5.42	Road Centerline	+0.00	Edge Height
5.42	Knee Top	5.42	Top of Wall	+1.00	Paved Height
5.42	Bridge Abutment	5.42	Hoarding	+0.00	Soft Elevation
5.42	Bridge Deck	5.42	Property Line	+5.00	Step Level
5.42	Bridge Pier	5.42	Road Star	*5.12	Concrete Pad
5.42	Building Facade	5.42	Top of Fence	C200	Track
5.42	Footpath / Platform / Train	5.42	Wall / Retaining Wall		
5.42	Deep Pond / Course / Verge	5.42	Railway / Train Rail / Gating / Ramp		
5.42	Bridge Pier / Wall & Landing Pier / LUAS Trackbed	5.42	Building Canopy / Road / Overhang		
5.42	Cycleway / Private Landing Area				

Murphy Surveys Ltd. Disclaimer

The user or recipient of this survey data understands and acknowledges this data may be inaccurate or contain errors or omissions and the user or recipient assumes full responsibility for any risks or damages resulting from, arising from, or in reliance upon, the survey data or any information displayed herein. Although significant care has been exercised to produce surveys that satisfy survey accuracy standards, these surveys are only as accurate as the source data from which they were compiled. Although all reasonable steps have been taken to locate all features visible at the time of the survey, there is no guarantee that all will be shown on the drawing, as some above ground features may have obstructed the survey. Wherever possible, areas unable to be surveyed will be labelled as "UTS".

The Company shall not be liable for any inaccuracy of the data provided beyond the specified scale or accuracy, or for any matters resulting from their use for purposes other than that stated in the Contract. No liability shall attach to the Surveyor in respect of any consequential loss or damages suffered by the Client.

The Client must promptly notify the Company of any errors in mapping of which it becomes aware. If misleading, inaccurate or otherwise inappropriate information is brought to the Company's attention or the Company itself identifies any such imprecision or error in a survey, it shall use its reasonable endeavours to fix or remove it and if necessary in certain instances, the Company being on notice of any such misleading, inaccurate or otherwise inappropriate information, it will re-conduct the survey and reproduce the data to within the specified scale or accuracy.

[illegible]

Client :	
Duffy Chartered Engineers Irl	
Project :	
De La Salle College Dundalk	
Date :	Scale :
23.04.2019	1:250@A1
Description :	
Topographical Survey	
Drawing Number :	
MSL29632_T_ITM_Rev2_07	