

# **TII Publications**



## Standard Construction Details – Series 5100

July 2022



## Standard Construction Details (SCDs) – Series 5100

TII Publications contains Standard Construction Details (SCDs) for use on National Road schemes in Ireland. This composite document brings together all the Series 5100 SCDs from TII Publications current at the date of this document's publication, into a single location for convenience.

Every effort has been made to keep this composite document updated and available from the TII Publications website (http://www.tiipublications.ie/). Please note that the SCD drawings available from the TII Publications website (individually linked below) are the controlled versions for all SCDs.

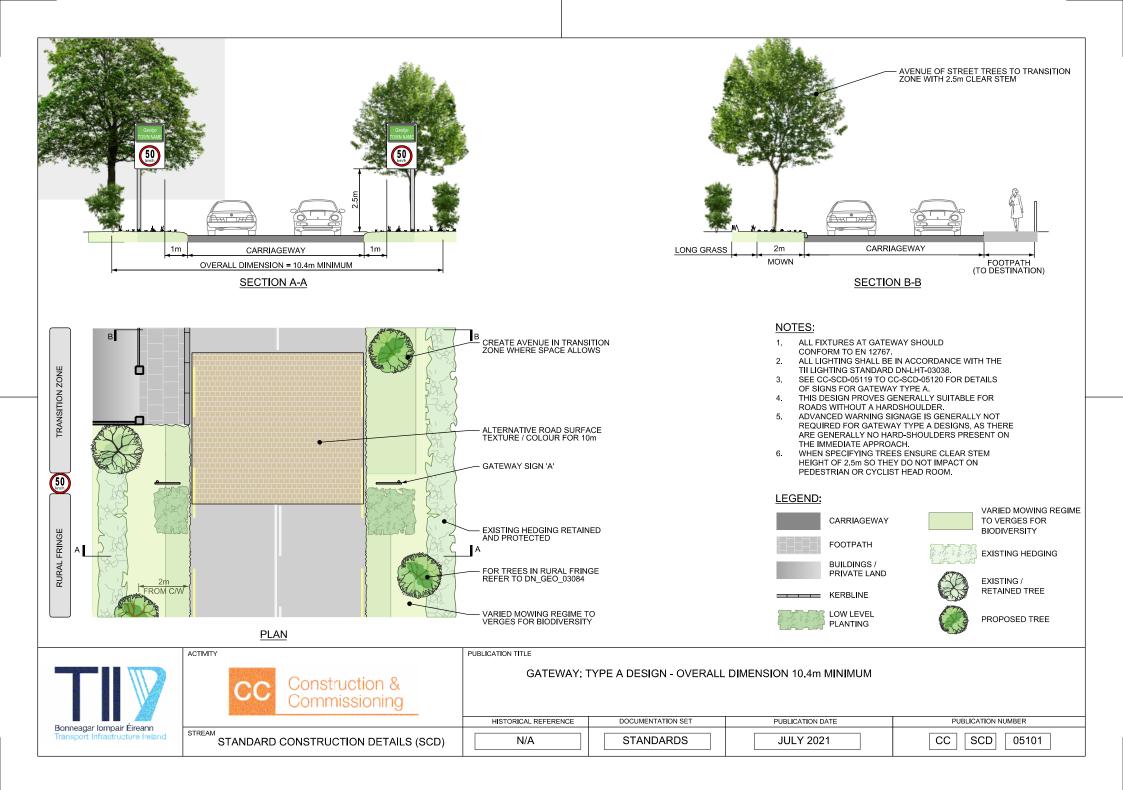
The SCDs contained in this document are as follows:

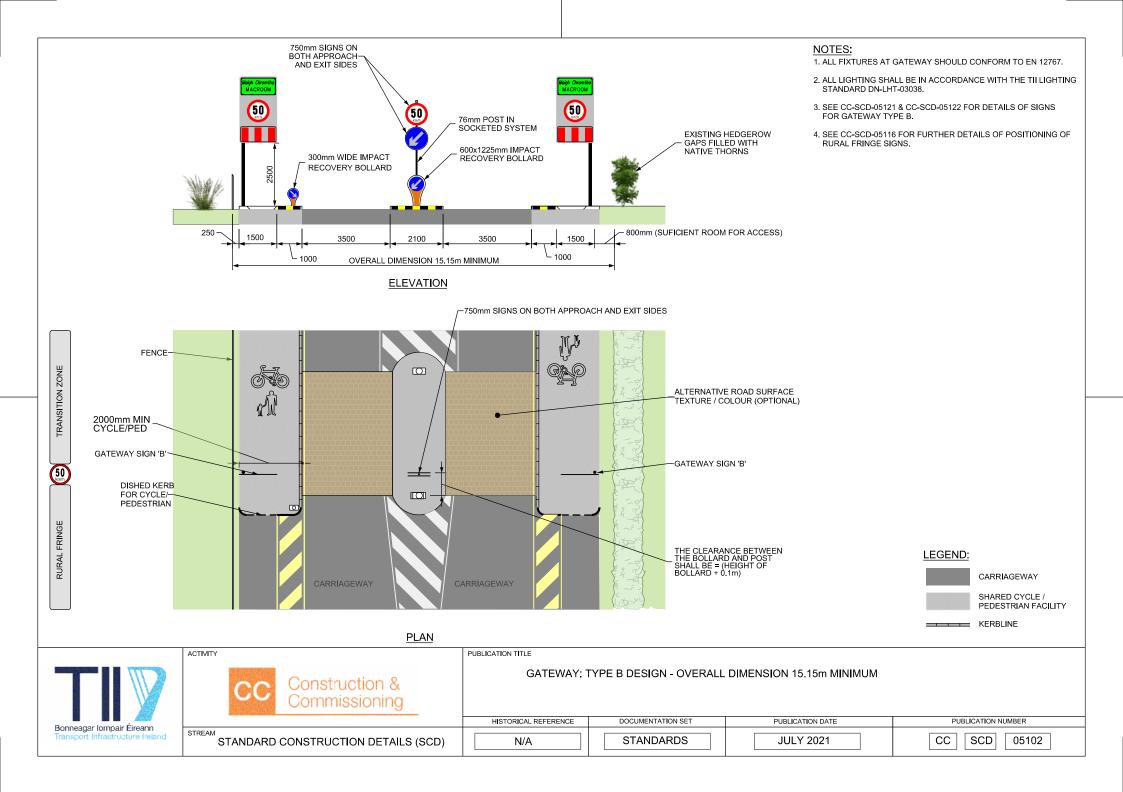
<u>CC-SCD-05101</u>	Gateway: Type A Design - Overall Dimension 10.4m Minimum
<u>CC-SCD-05102</u>	Gateway: Type B Design - Overall Dimension 15.15m Minimum
<u>CC-SCD-05103</u>	Plan of Road on Approach to Gateway: Type B Design
<u>CC-SCD-05104</u>	Gateway: Type C Design - Overall Dimension 19.1m Minimum
CC-SCD-05105	Plan of Road on Approach to Gateway: Type C Design
CC-SCD-05106	Transition Zone - Sample Layouts When Available Width Between 9.6m to 11.6m
CC-SCD-05107	Transition Zone - Sample Layouts When Available Width Between 11.6m to 14.8m
CC-SCD-05108	Transition Zone - Sample Layouts When Available Width Between 14.9m to 16.9m
CC-SCD-05109	Transition Zone - Sample Layouts when Available Width 16.9m or Greater
CC-SCD-05110	Transition Zone - Plan of Cycle Bypass from Gateway Through to Carriageway Return Where Restricted Width Ahead
CC-SCD-05111	Transition Zone - Provision of Horizontal Lateral Shift Road Width Greater than 8.6m
CC-SCD-05112	Plan of Kerbed Build-Out from Footpath
CC-SCD-05113	Plan of Central Island
<u>CC-SCD-05114</u>	Plan of Corner Footpath Detail at Side Road
CC-SCD-05115	Double Build-out Option with Raised Table and Crossing Facility
CC-SCD-05116	Position of Rural Fringe Sign
<u>CC-SCD-05117</u>	Traffic Calming Sign
CC-SCD-05118	Do Not Pass Sign
CC-SCD-05119	Gateway Sign A (Inbound)
CC-SCD-05120	Gateway Sign A (Outbound)
<u>CC-SCD-05121</u>	Gateway Sign B (Inbound)
CC-SCD-05122	Gateway Sign B (Outbound)
CC-SCD-05123	Uncontrolled Pedestrian Crossing Road Marking and General Layout
CC-SCD-05124	Uncontrolled Crossing with Refuge Island Road Markings and General Layout
CC-SCD-05125	Zebra Crossing Road Markings and General Layout

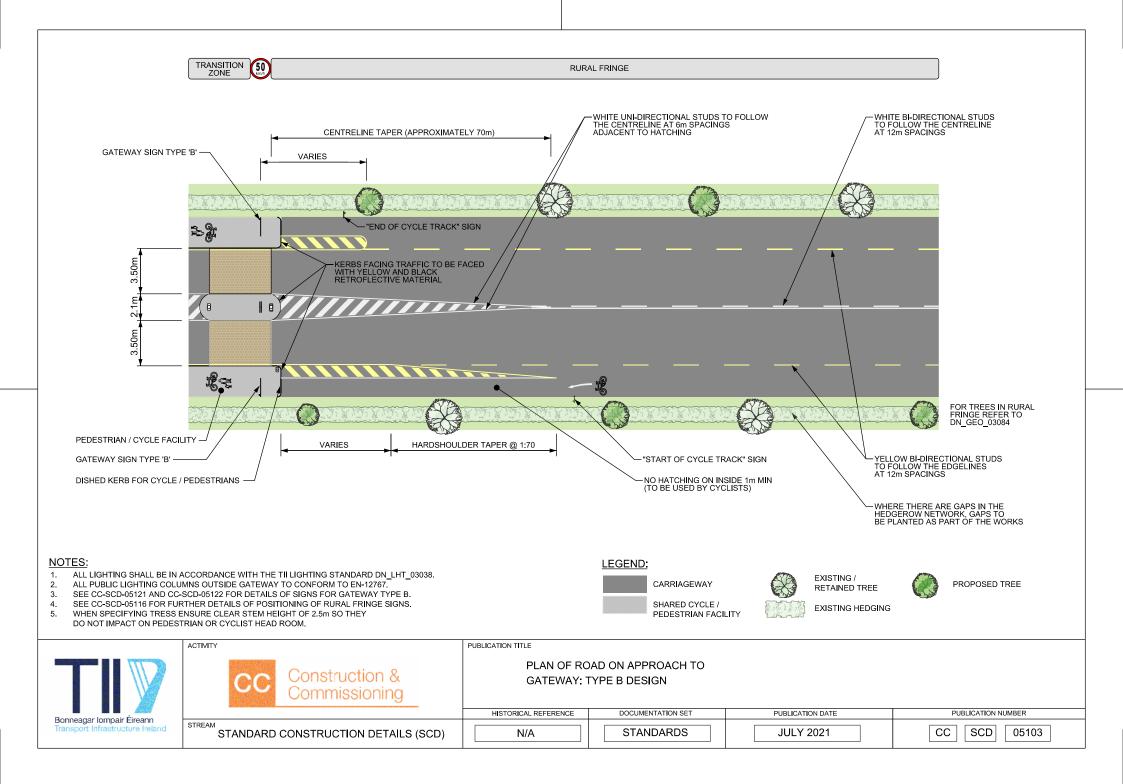
## Series 5100

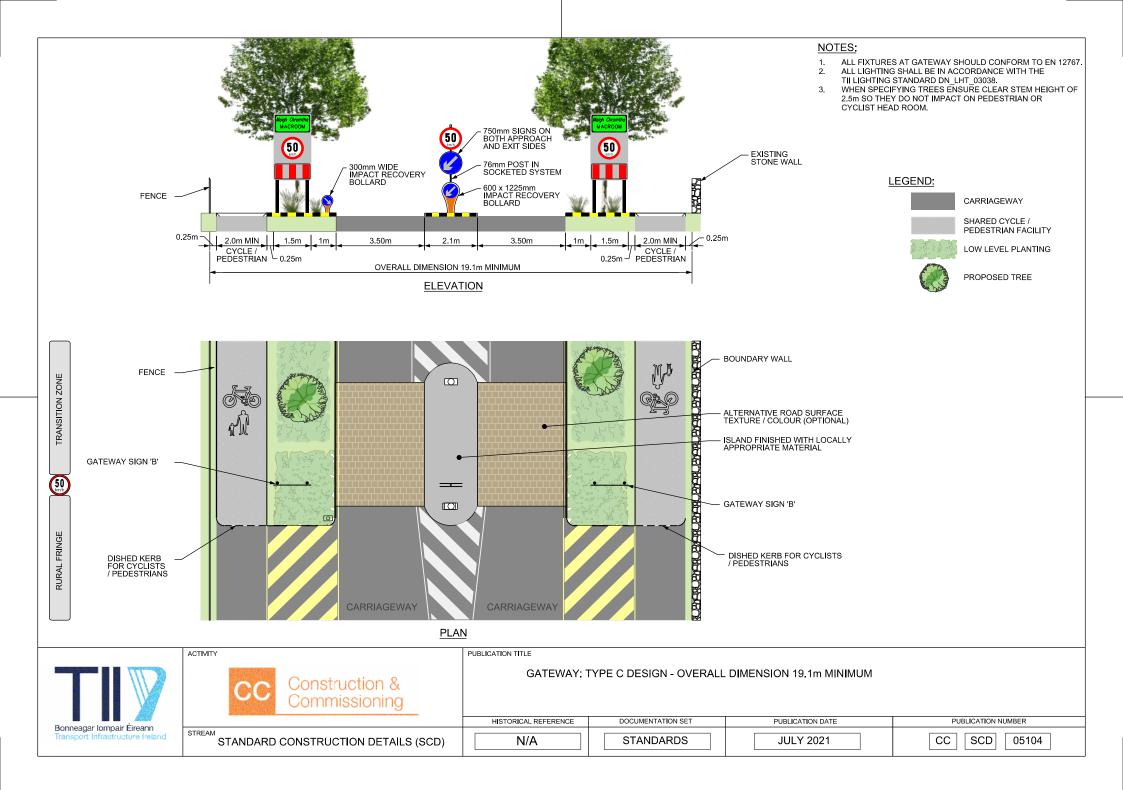
### TRANSPORT INFRASTRUCTURE IRELAND (TII) PUBLICATIONS

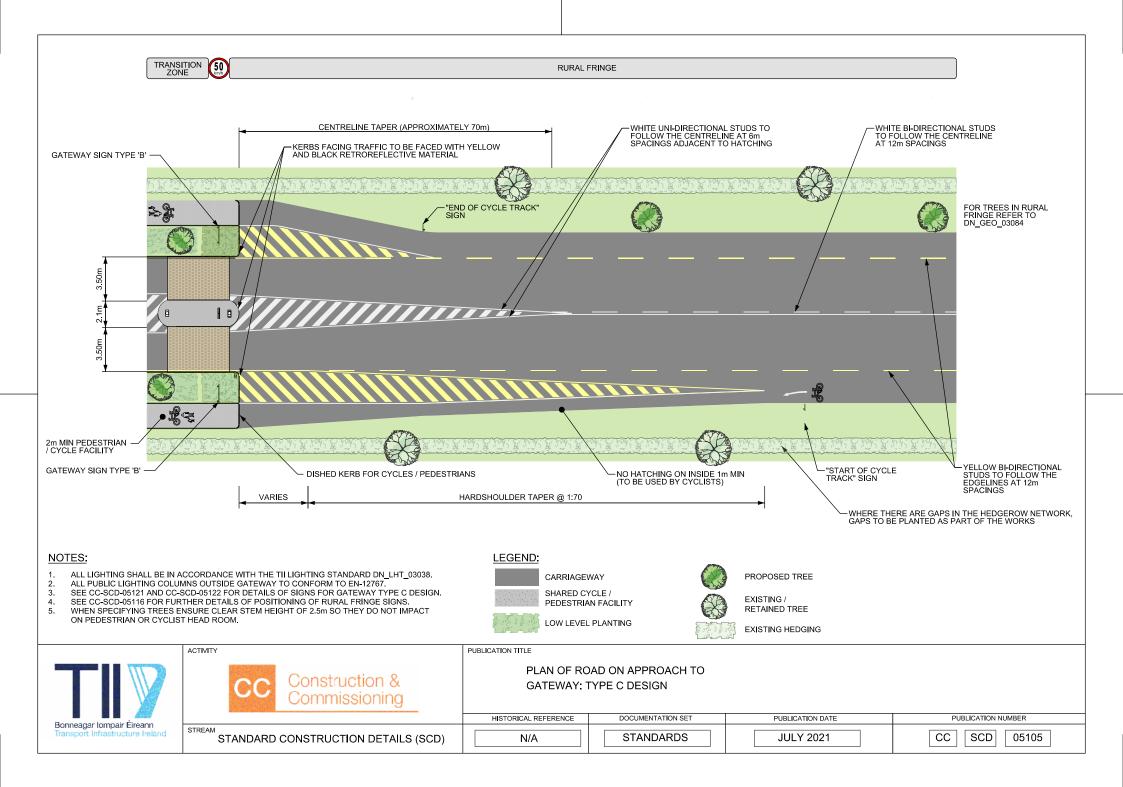
<u>CC-SCD-05126</u>	Zebra Crossing with Refuge Island Road Markings and General Layout
<u>CC-SCD-05127</u>	Puffin Crossing Road Markings and General Layout
<u>CC-SCD-05128</u>	Puffin Crossing with Refuge Island Road Markings and General Layout
<u>CC-SCD-05129</u>	Lighting Detail at Uncontrolled Crossings
<u>CC-SCD-05130</u>	2 Lane Approach to Zebra Crossing, Visibility Requirements
<u>CC-SCD-05131</u>	Uncontrolled Crossing Construction Detail for Refuge Island
<u>CC-SCD-05132</u>	Zebra Crossing Construction Detail for Refuge Island
<u>CC-SCD-05133</u>	Puffin Crossing Construction Detail for Refuge Island
<u>CC-SCD-05134</u>	Zebra Crossing Tactile Paving and Pole Position Detail
<u>CC-SCD-05135</u>	Puffin Crossing Tactile Paving and Traffic Signal Details
<u>CC-SCD-05136</u>	Tactile and Paving Details and Recommended Gradients at Uncontrolled Pedestrian Crossing
<u>CC-SCD-05137</u>	Tactile Paving Detail and Recommended Gradients - Controlled Pedestrian Crossing
<u>CC-SCD-05138</u>	Belisha Beacon Pole Detail
<u>CC-SCD-05139</u>	Puffin Crossing Signal Pole Detail
<u>CC-SCD-05140</u>	Historic Kerb Detail
<u>CC-SCD-05141</u>	Bevelled Kerb Detail
<u>CC-SCD-05142</u>	Pole Placement and Pavement Cutting Details in Paved Footpath
<u>CC-SCD-05143</u>	Utility Lids in Paving Details
<u>CC-SCD-05144</u>	Cycle Friendly Gully Details
<u>CC-SCD-05145</u>	Raised Table Detail

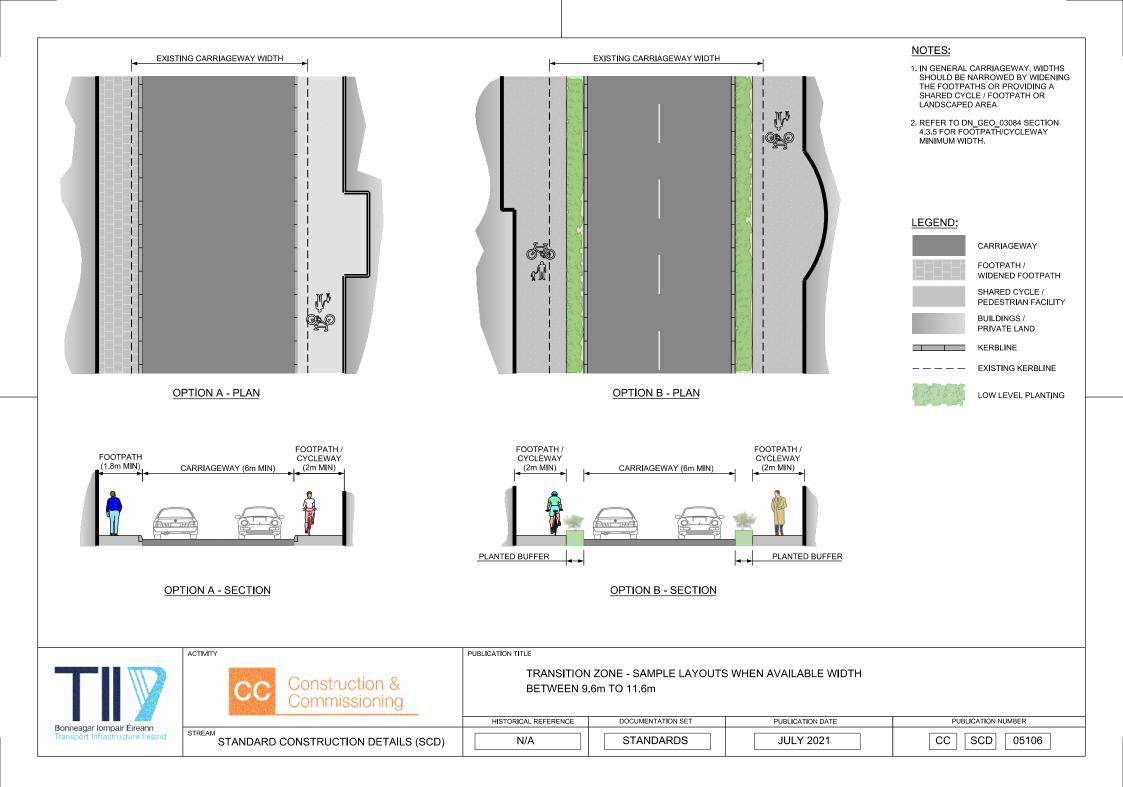


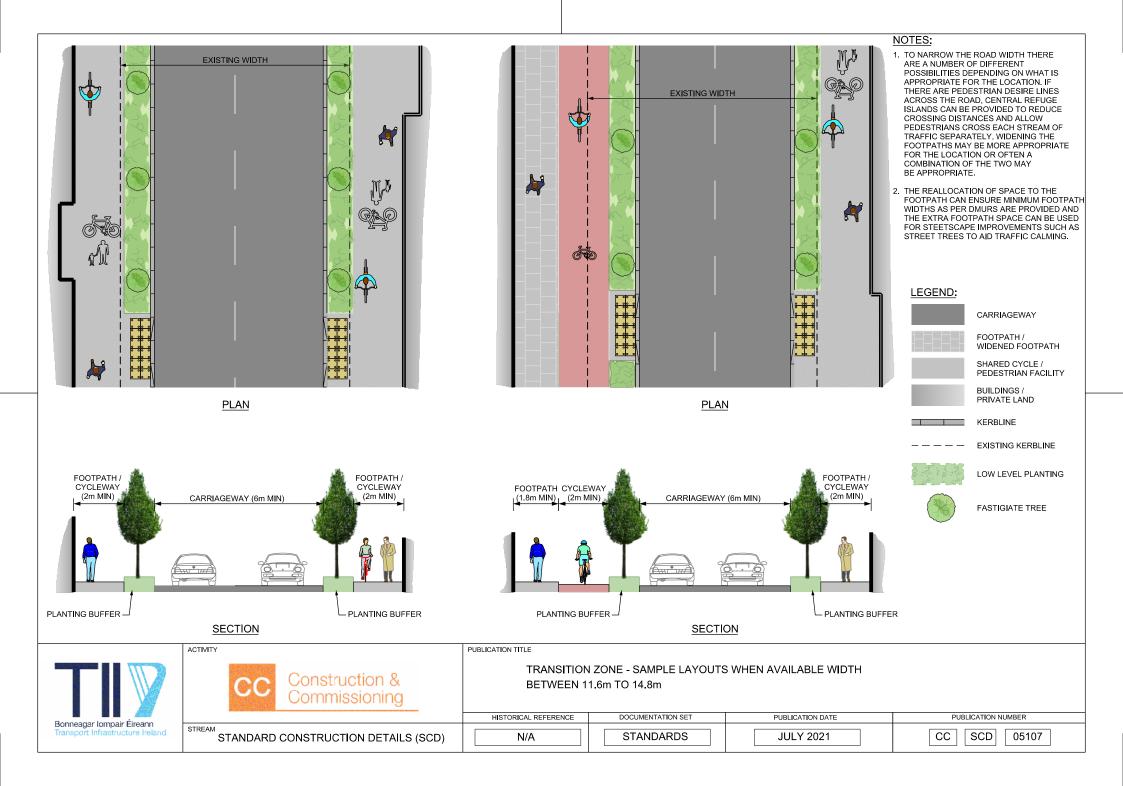


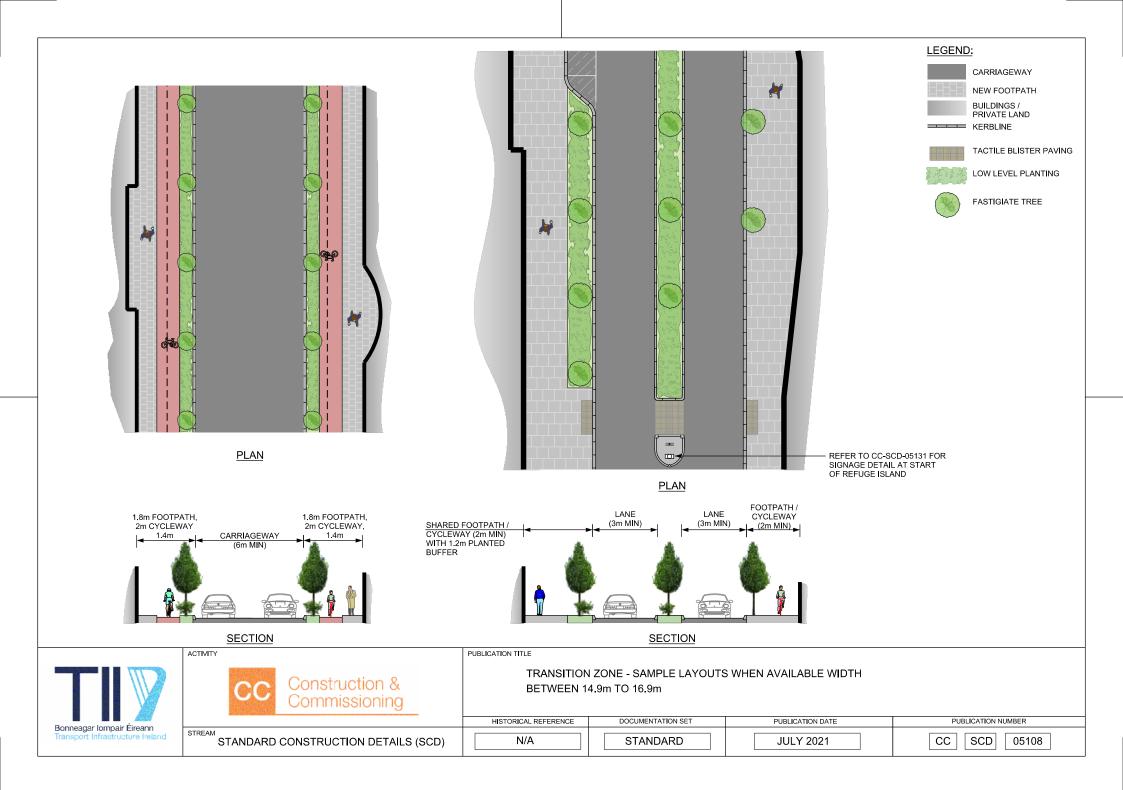


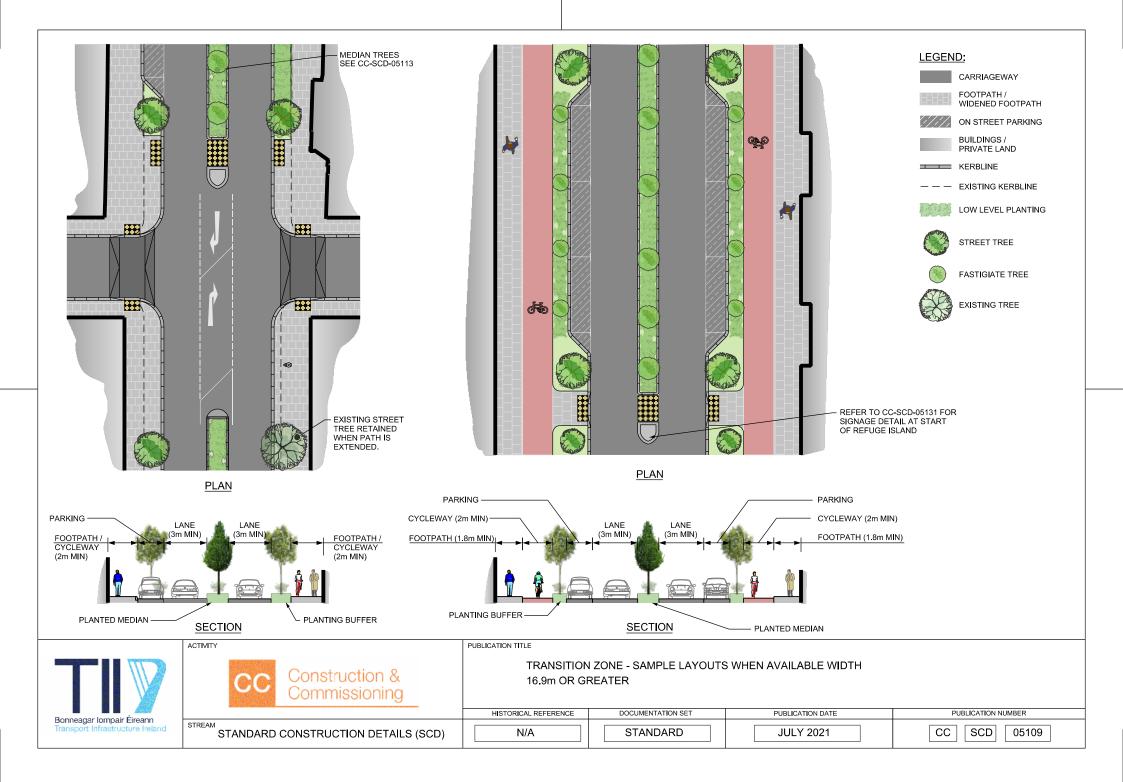


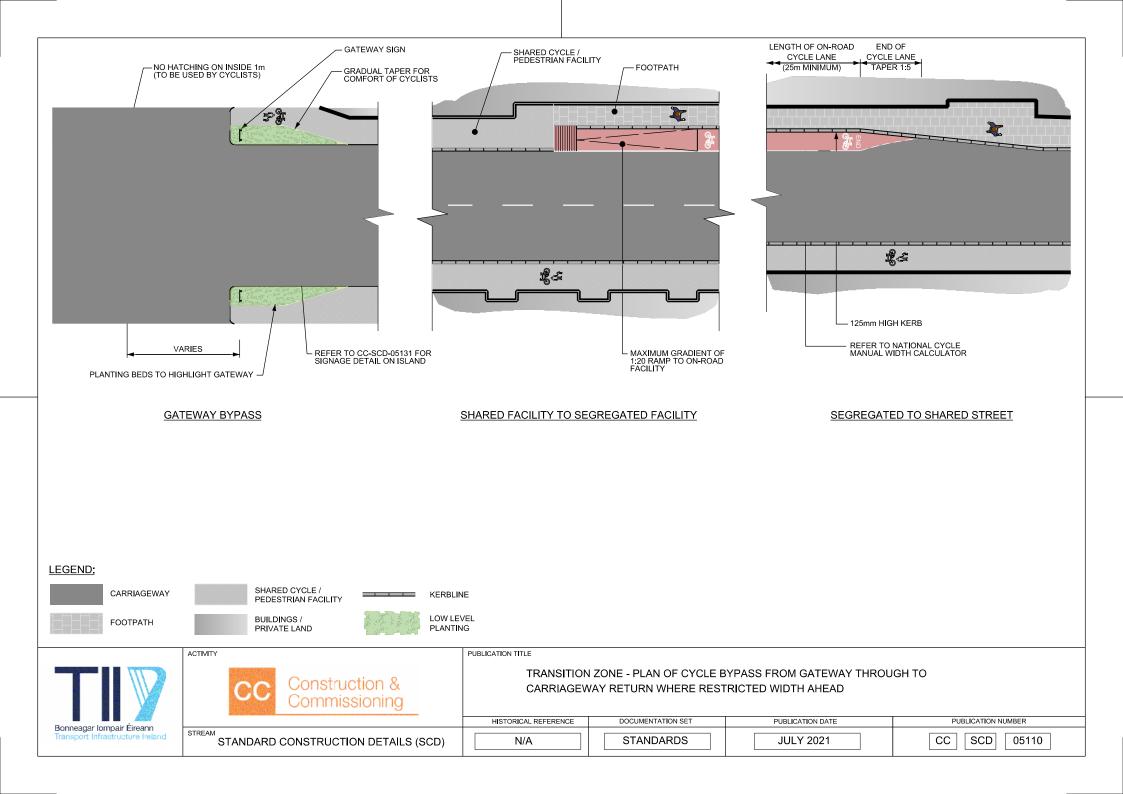


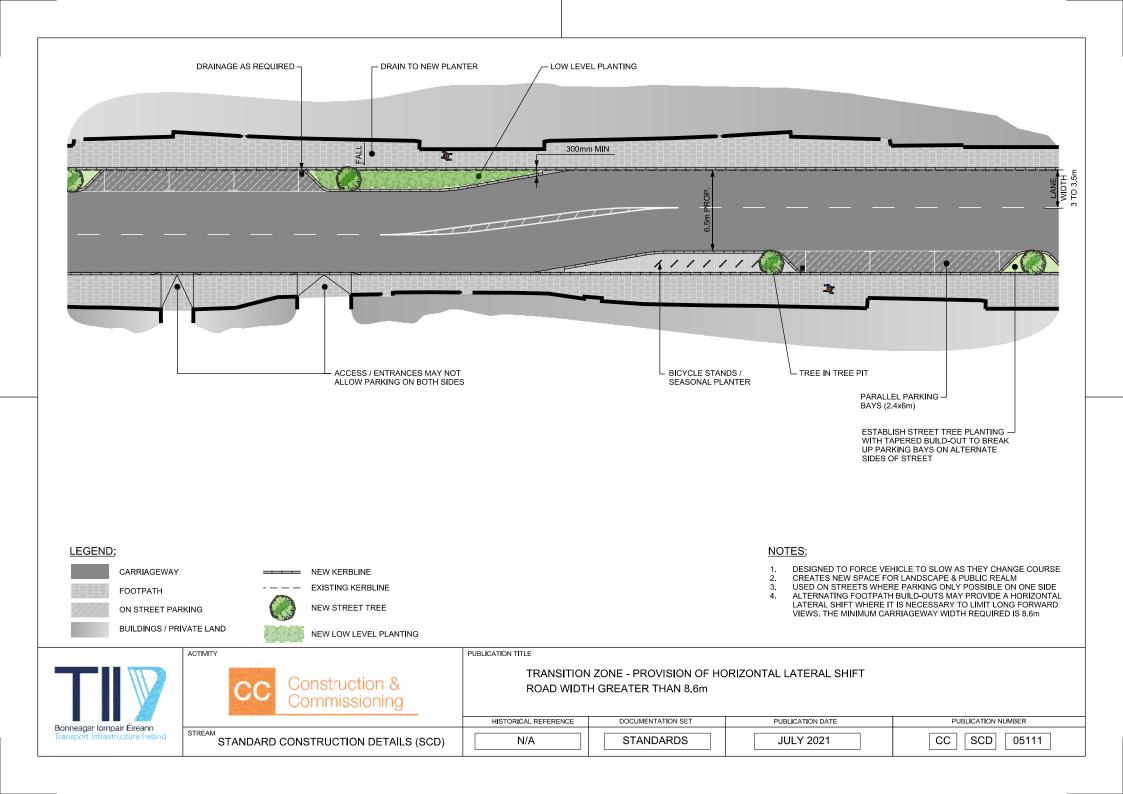


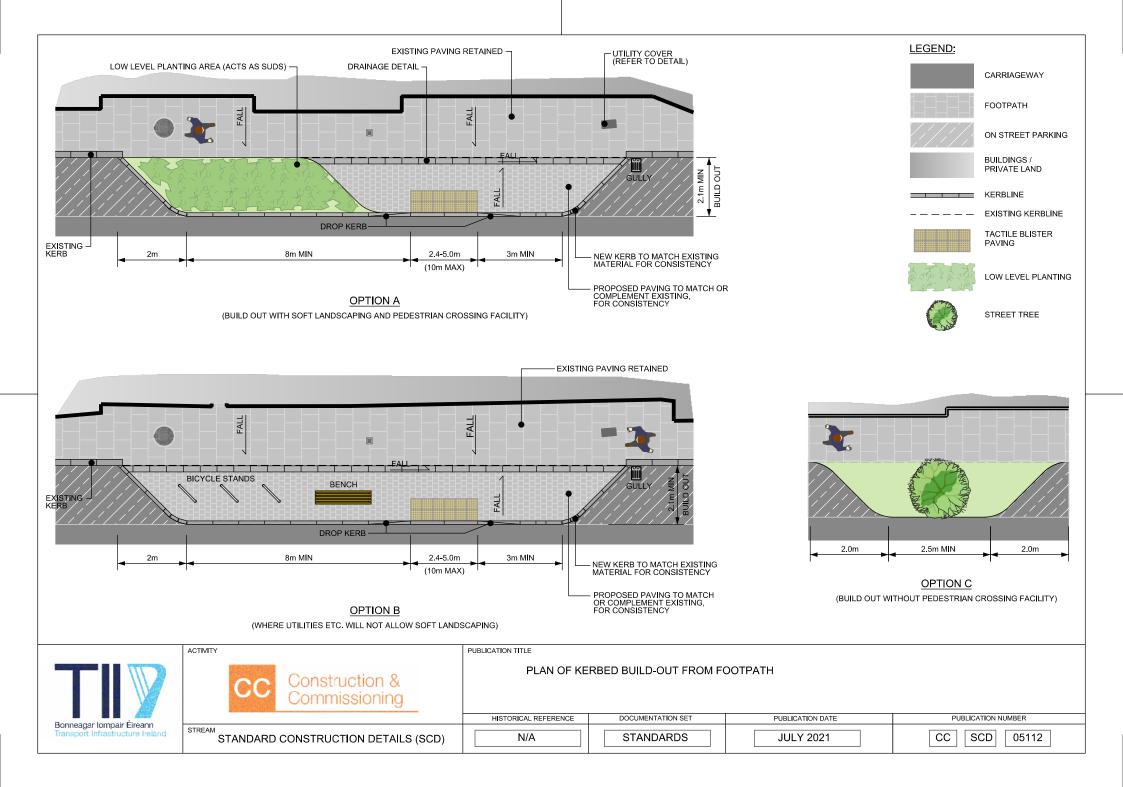


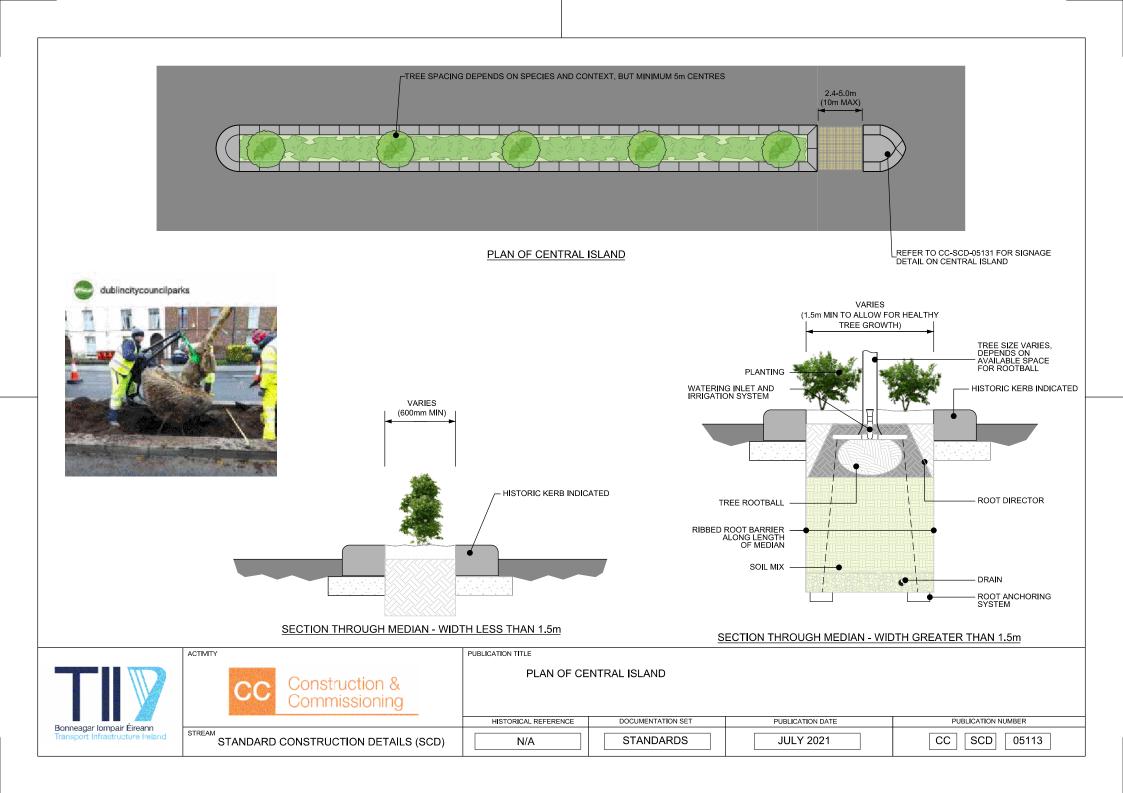


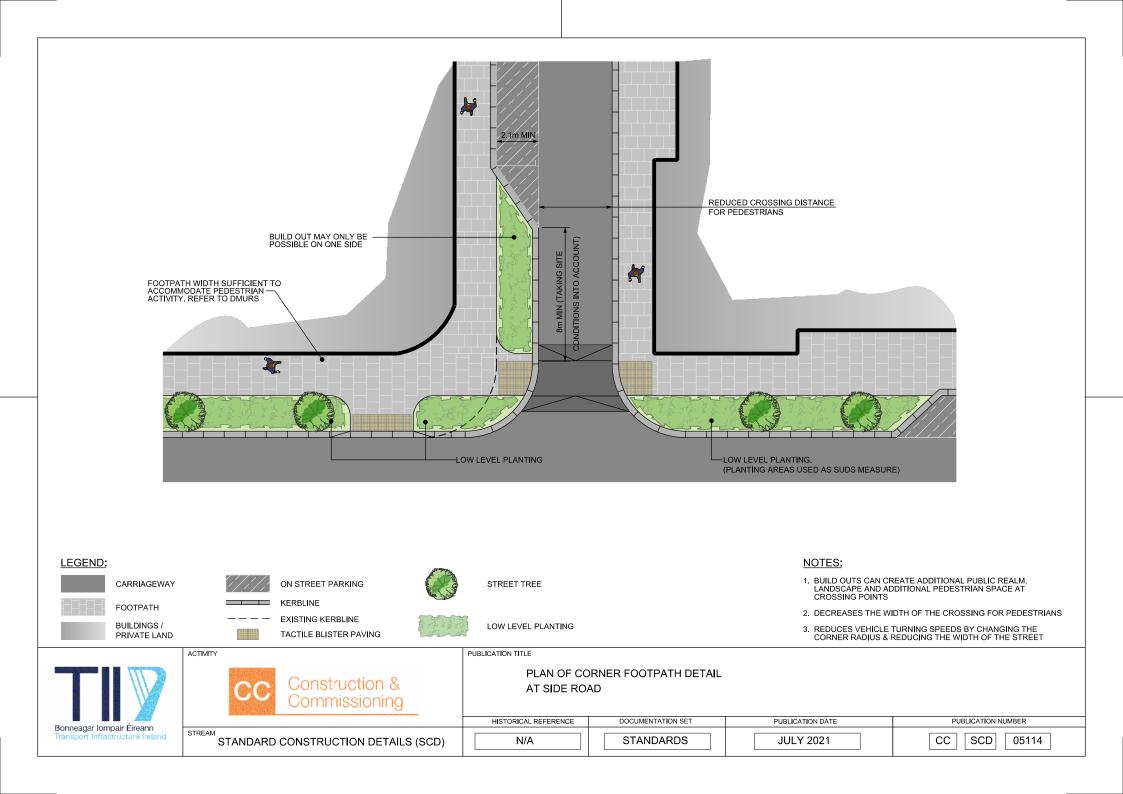


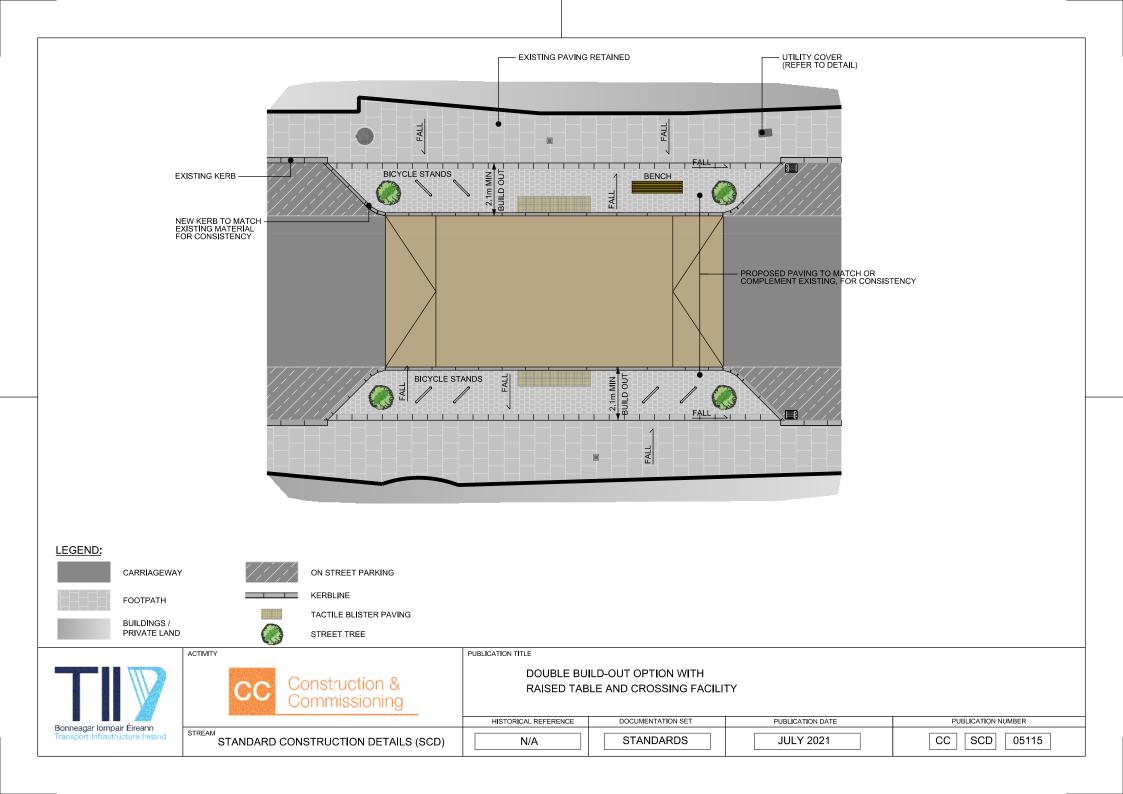


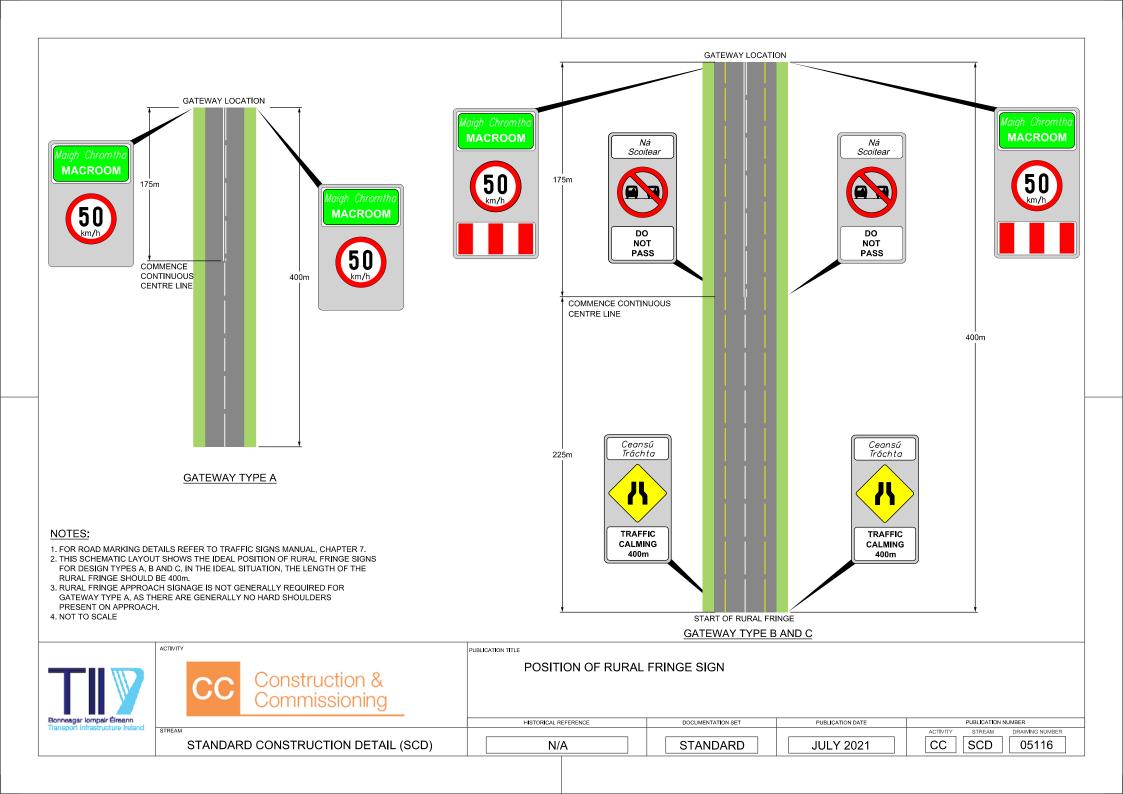


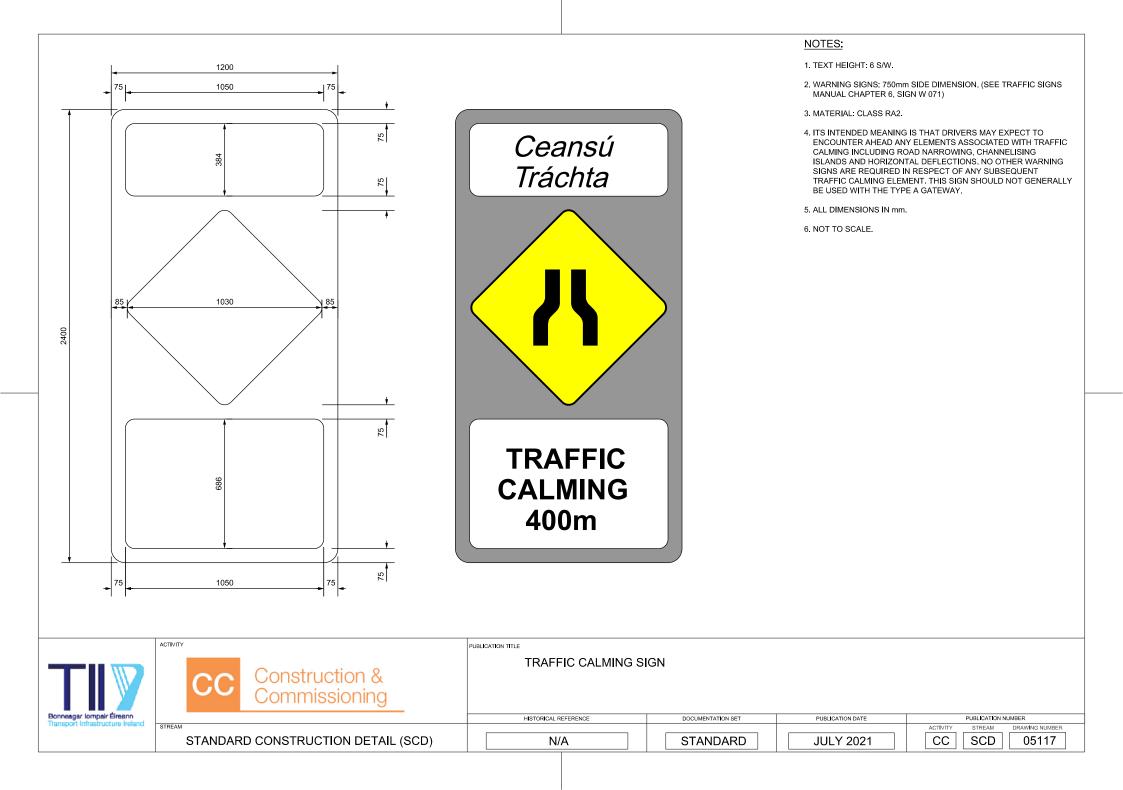


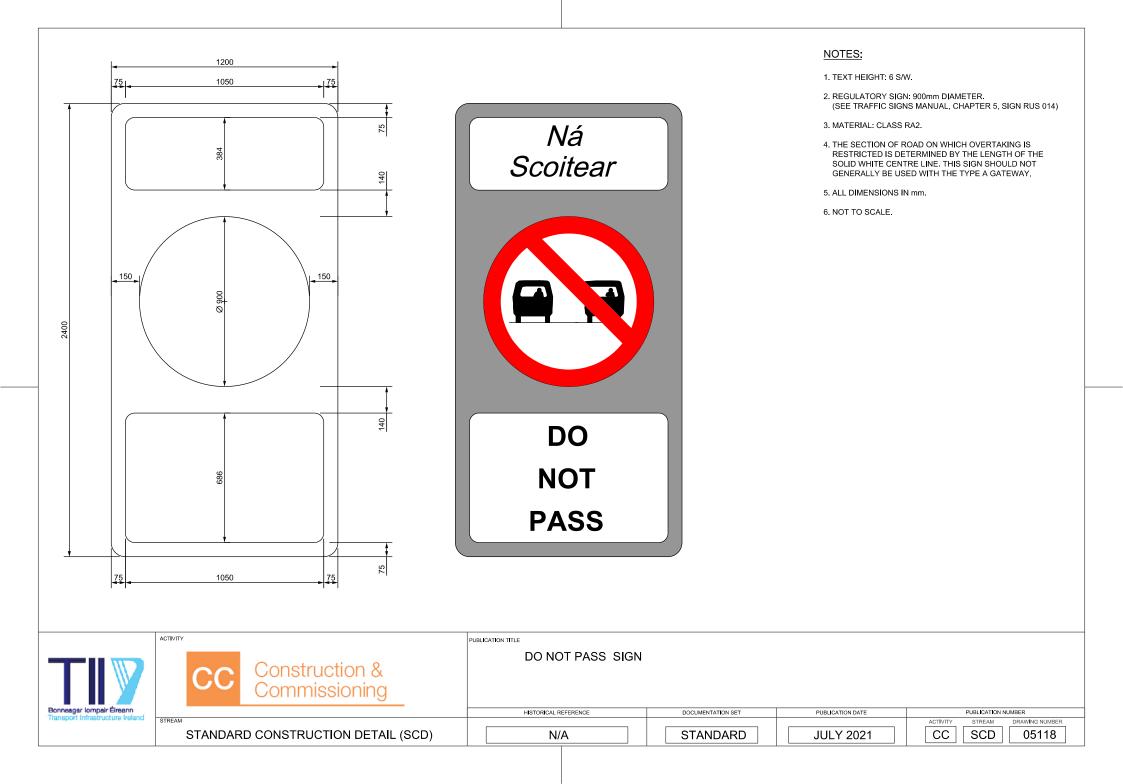








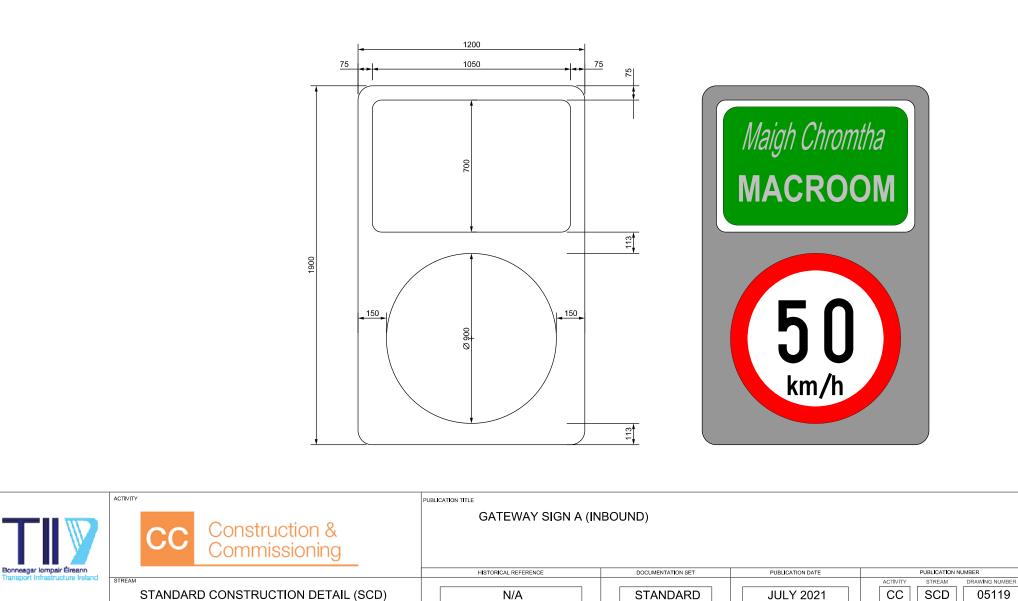




#### NOTES:

#### 1. TEXT HEIGHT TO SUIT.

- 2. REGULATORY SIGN: 900mm DIAMETER. (SEE TRAFFIC SIGNS MANUAL,
- CHAPTER 5, SIGN RUS 043)
- 3 MATERIAL CLASS RA2.
- 4. ALL DIMENSIONS IN mm.
- 5. NOT TO SCALE.



#### NOTES:

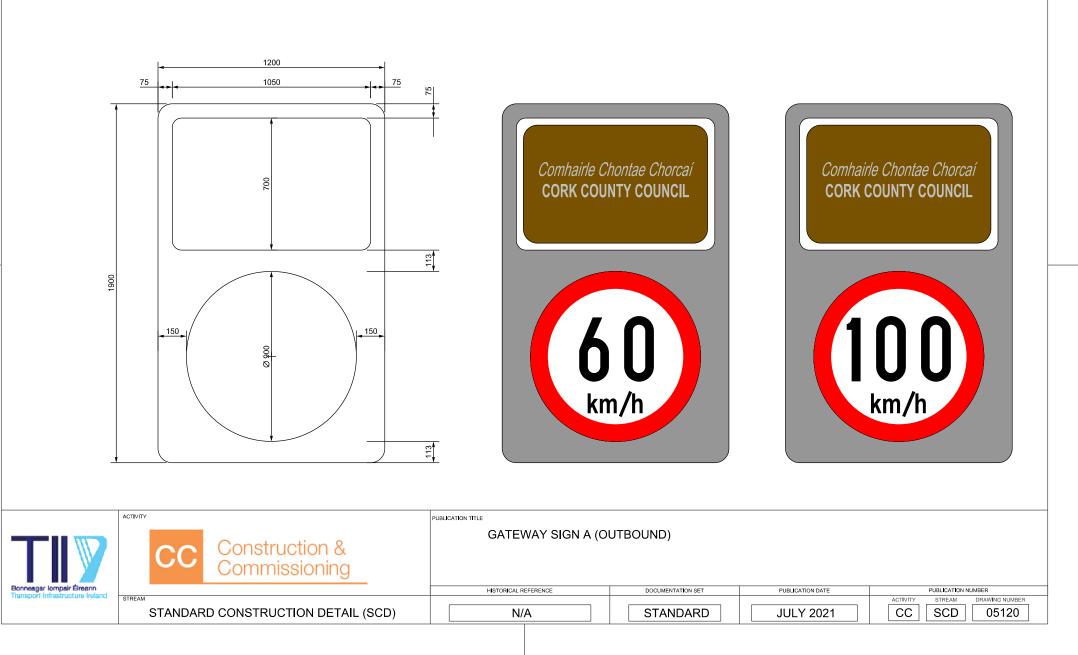
1. TEXT HEIGHT TO SUIT

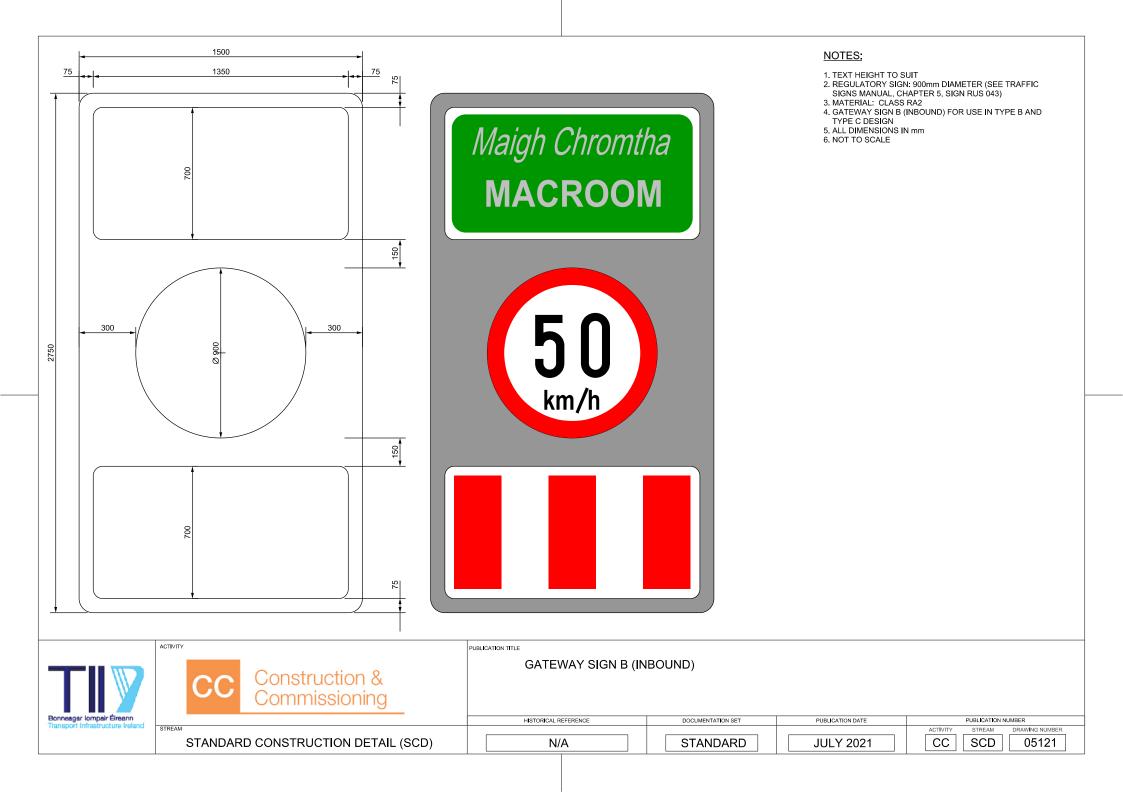
2. REGULATORY SIGN: 900mm DIAMETER (SEE TRAFFIC SIGNS MANUAL, CHAPTER 5, SIGN RUS 042)

- 3. BROWN: TOURIST BROWN BS381C No. 411
- 4. MATERIAL: CLASS RA2 5. ALL DIMENSIONS IN mm

6. NOT TO SCALE

6. NOT TO SCALE





#### NOTES:

1. TEXT HEIGHT TO SUIT, ALL OTHER TEXT HEIGHT 8 S/W.

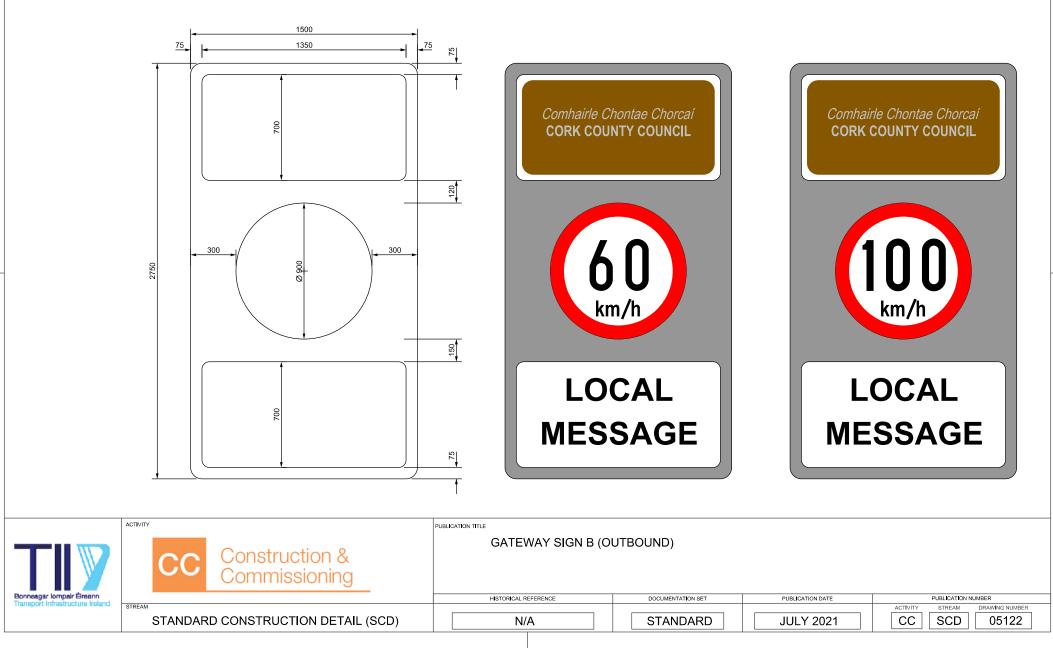
2. REGULATORY SIGN: 900mm DIAMETER (SEE TRAFFIC SIGNS MANUAL, CHAPTER 5, SIGN RUS 042 AND RUS 040)

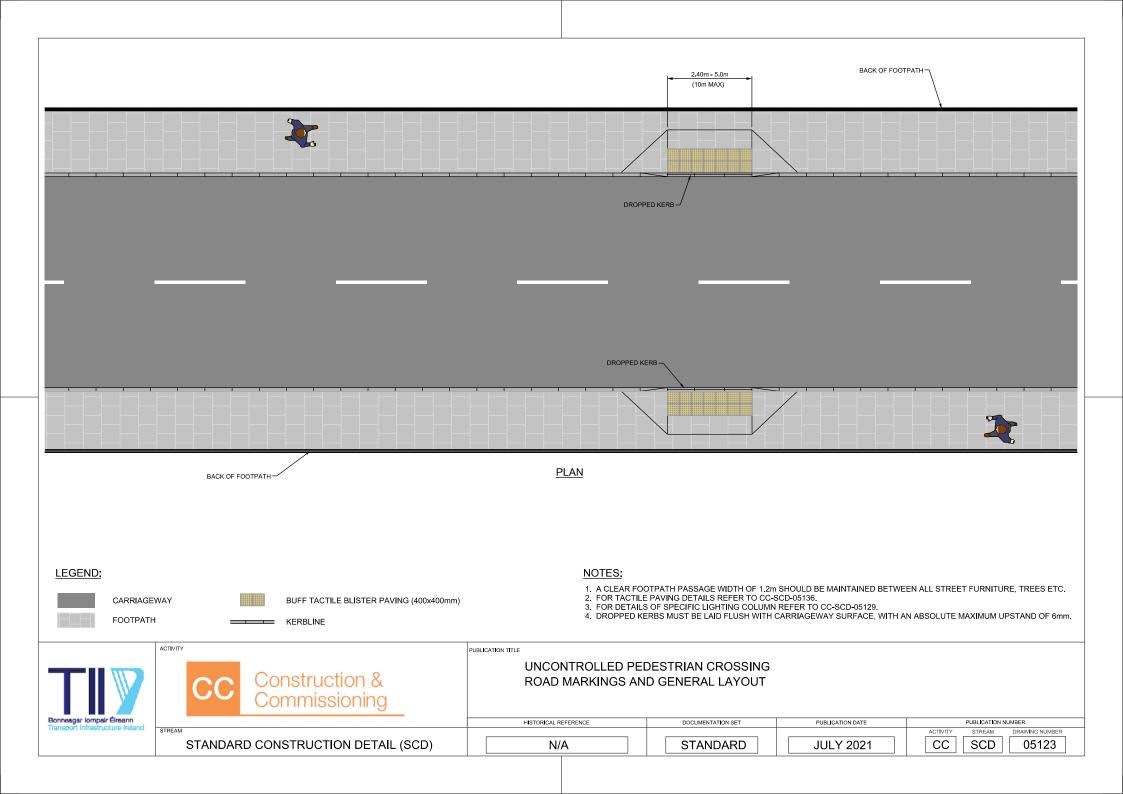
3. MATERIAL: CLASS RA2

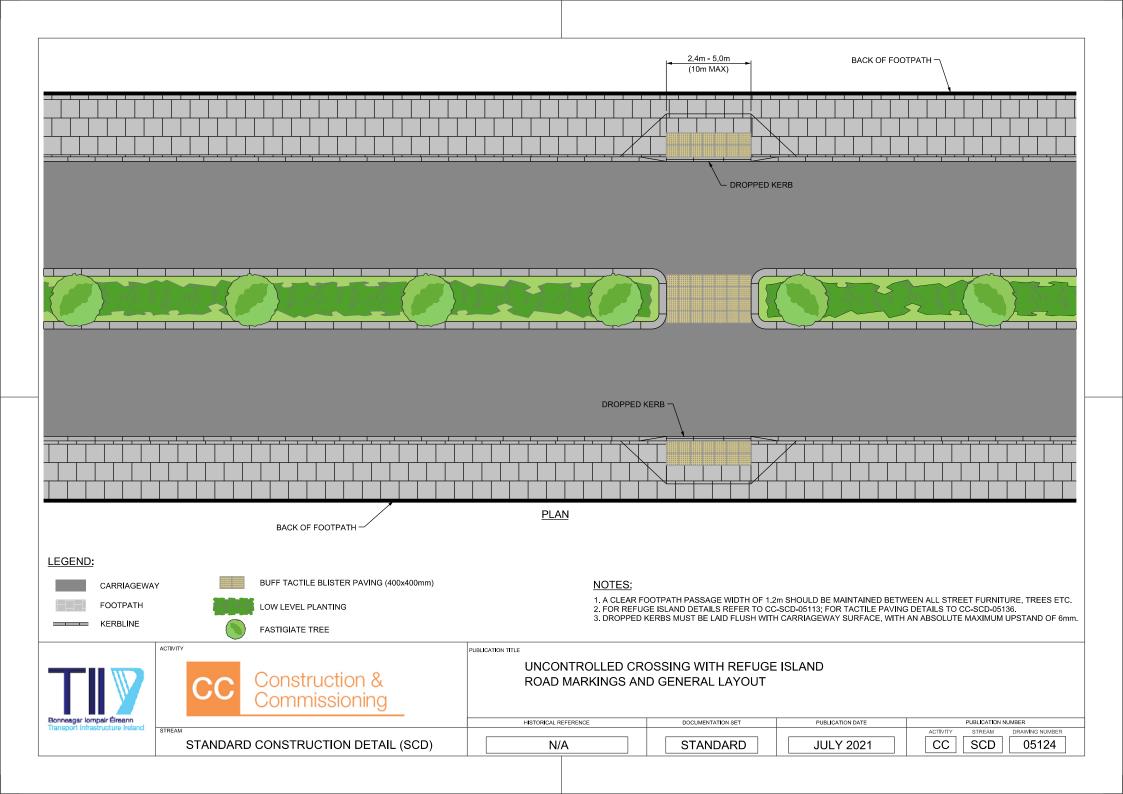
4. GATEWAY SIGN TYPE B (OUTBOUND) FOR USE IN TYPE B AND TYPE C DESIGN

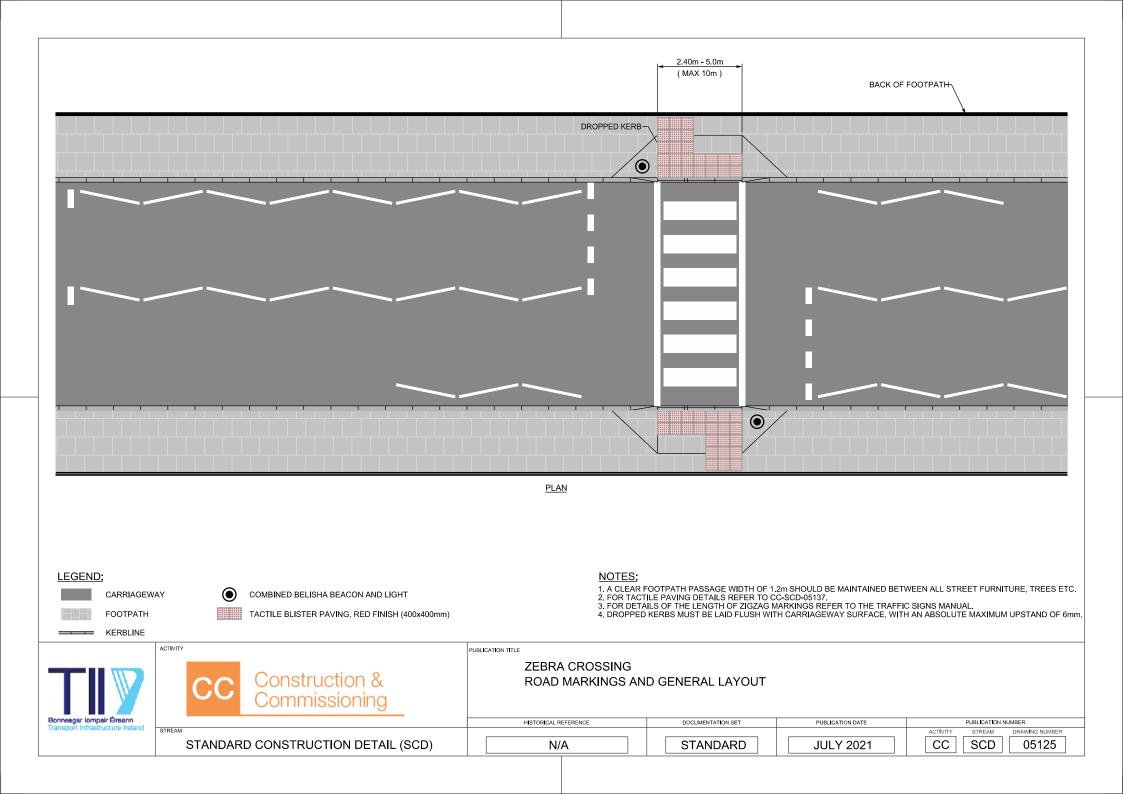
5. ALL DIMENSIONS IN mm

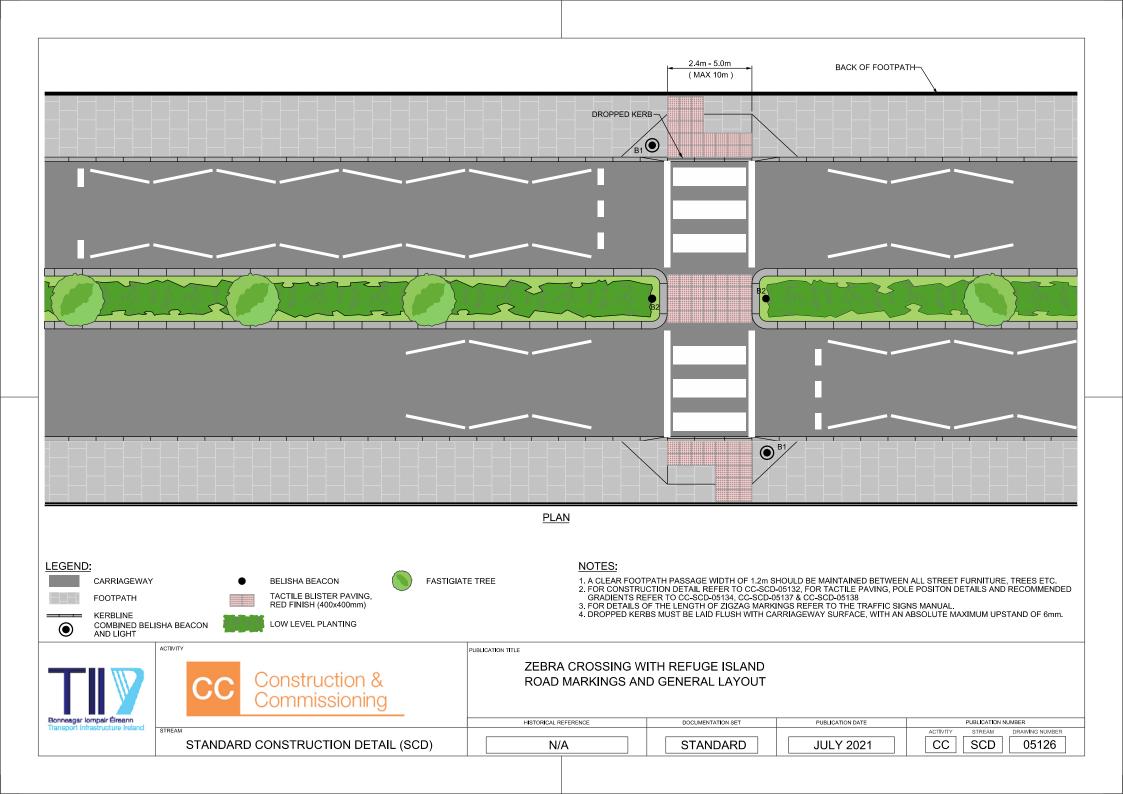
6. NOT TO SCALE

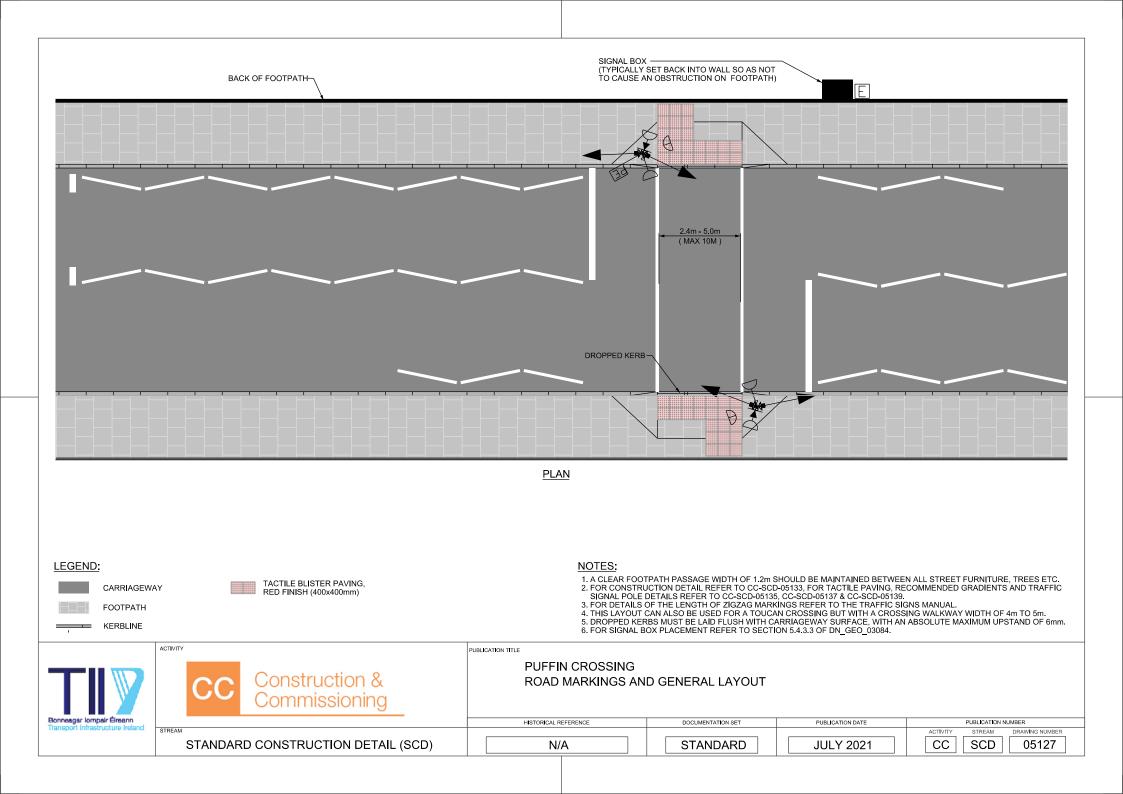


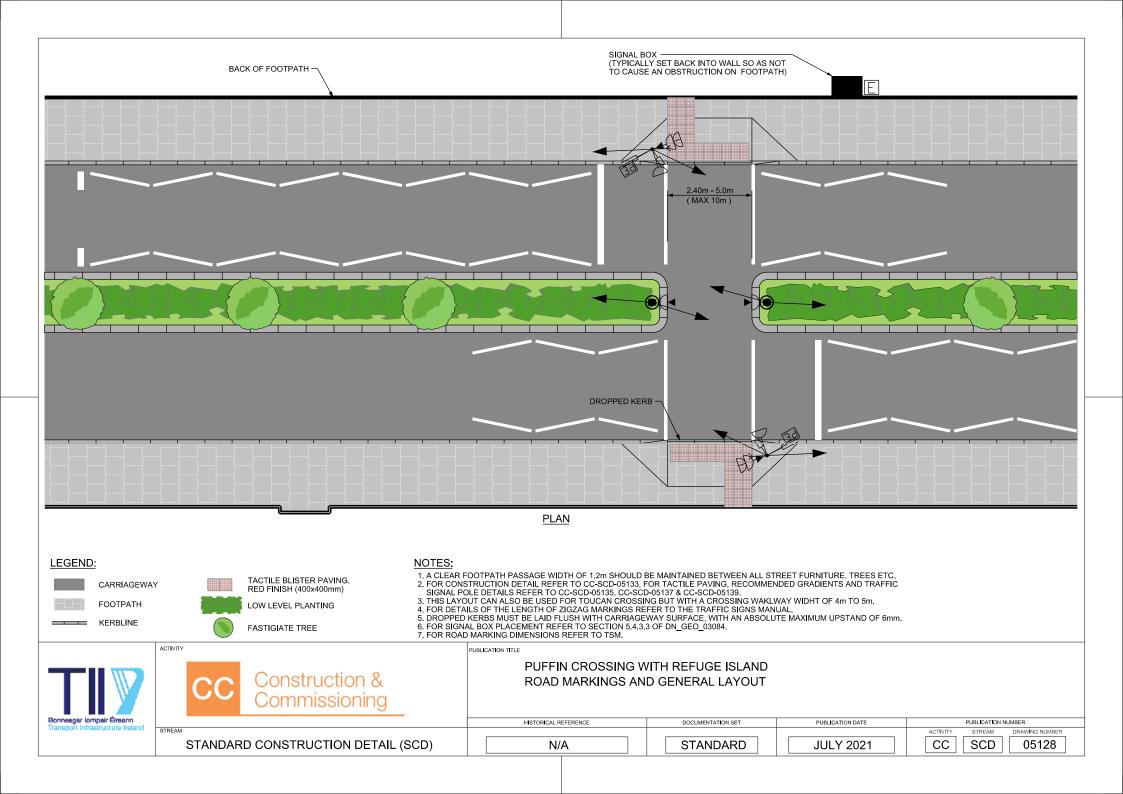












#### LIGHTING AND LANTERN DETAILS:

TWO 150 WATT CERAMIC DISCHARGE METAL HALIDE LANTERNS SHOULD BE PROVIDED AT THE CROSSING. THE LANTERNS SHOULD GIVE AN ASYMMETRIC DISTRIBUTION, WHERE THE PEAK BEAM IS DIRECTED TO PRODUCE A BRIGHT BAND OF LIGHT ACROSS THE ROAD.

OPTICAL UNIT: SEALED TO IP66 AS DEFINED IN EN 60598 AND GARANTEED AGAINST THE INGRESS OF DUST AND MOISTURE FOR A PERIOD OF 13 YEARS.

DEEP BOWL POLYCARBONATE PROTECTOR INCORPORATING INTERNALLY PAINTED DIFFUSER STRIPS WITH ALTERNATE RED AND WHITE PANELLING.

REFLECTOR TO BE FORMED OF HIGH PURITY ALUMINIUM, PERMANENTLY BONDED TO THE DEEP BOWL PROTECTOR AND SHALL GIVE AN ASYMMETRIC DISTRIBUTION, WHERE THE PEAK BEAM OF THE LANTERN IS DIRECTED TO PRODUCE A BRIGHT BAND OF LIGHT ACROSS THE ROAD.

BODY TO BE HIGH PRESSURE DIE-CAST ALUMINIUM WITH A RAL 3020 STOVED POLYESTER PAINTED FINISH, WHICH WITHSTANDS THE STANDARD CROSS CUT TESTS AS DEFINED IN EN ISO 2409 AND BS 3900.

CANOPY TO BE LIGHT GREY, TWO-PIECE MOULDED POLYPROPYLENE CANOPY, WITH A BLACK HINGED JOINT RESISTANT TO U.V. RADIATION AND AGING, AND SHALL PROTECT THE INTERIOR TO A RATING OF IP43. MOVEABLE PART OF CANOPY SHALL BE SECURED IN CLOSED POSITION BY MEANS OF TWO STAINLESS STEEL CLIPS.

A NEMA SOCKET SHALL BE FITTED TO THE CANOPY USING A WATERTIGHT GASKET AND 4 NON-CORRODIBLE SCREWS AND SHALL BE WIRED TO LANTERN CONTROL GEAR.

AN INTERGRAL CONTROL GEAR SHALL BE USED, WITH SELF-RESETTING THERMAL CUT-OUT FITTED IN THE BALLAST, AND A TIMED CUT-OUT IGNITER.

CARRIAGEWAY

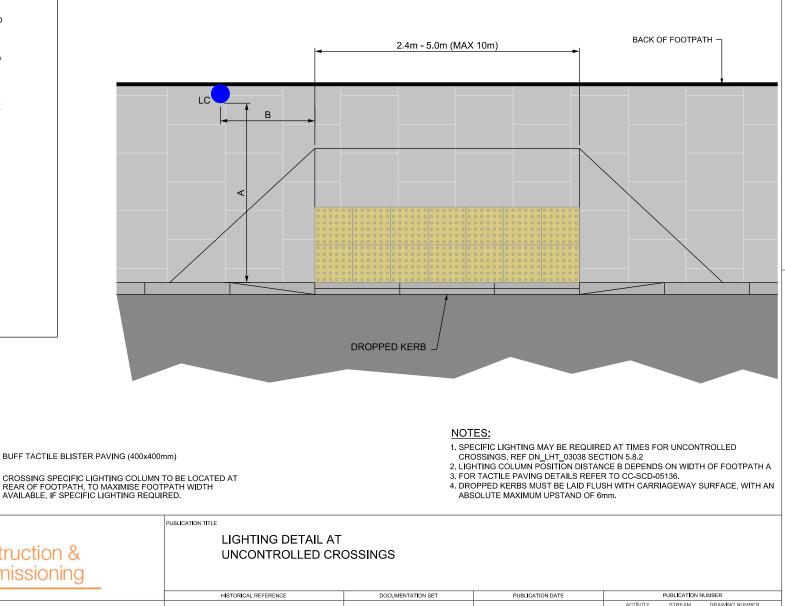
FOOTPATH

KERBLINE ACTIVITY

STREAM

LEGEND:

Bonneagar Iompair Éireann



STANDARD

CC

**JULY 2021** 

SCD

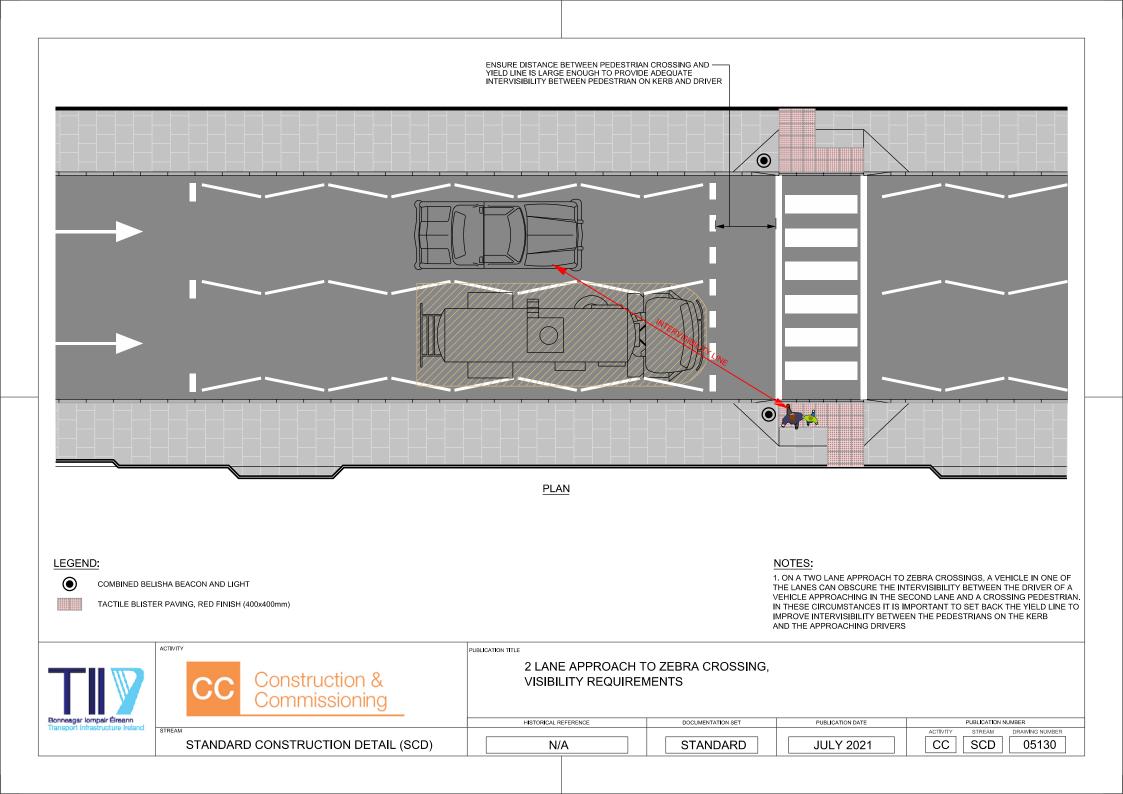
05129

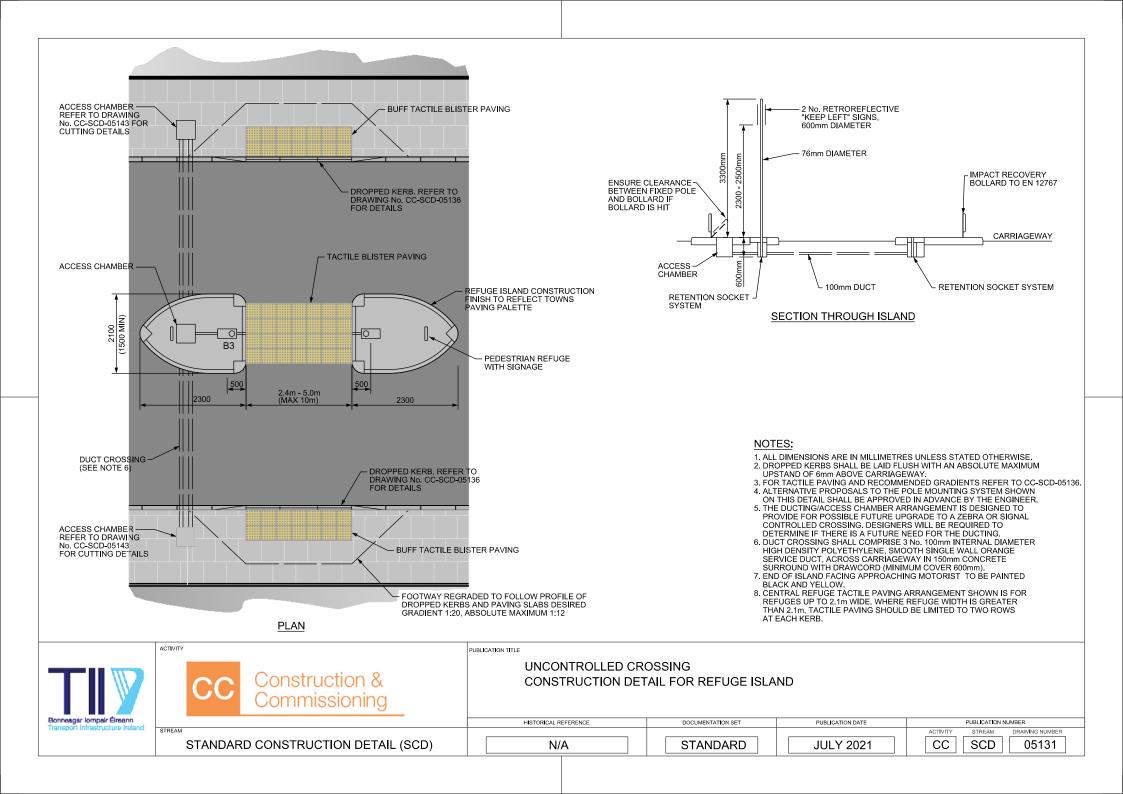
STANDARD CONSTRUCTION DETAIL (SCD)

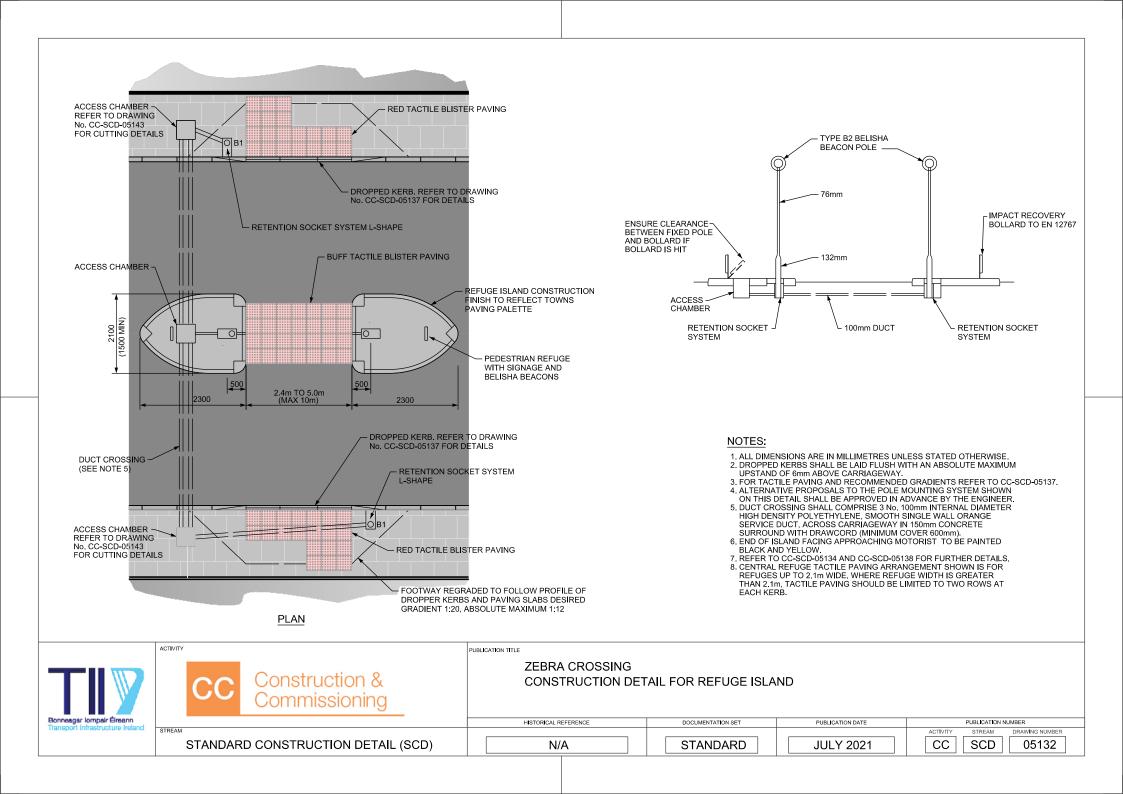
Construction &

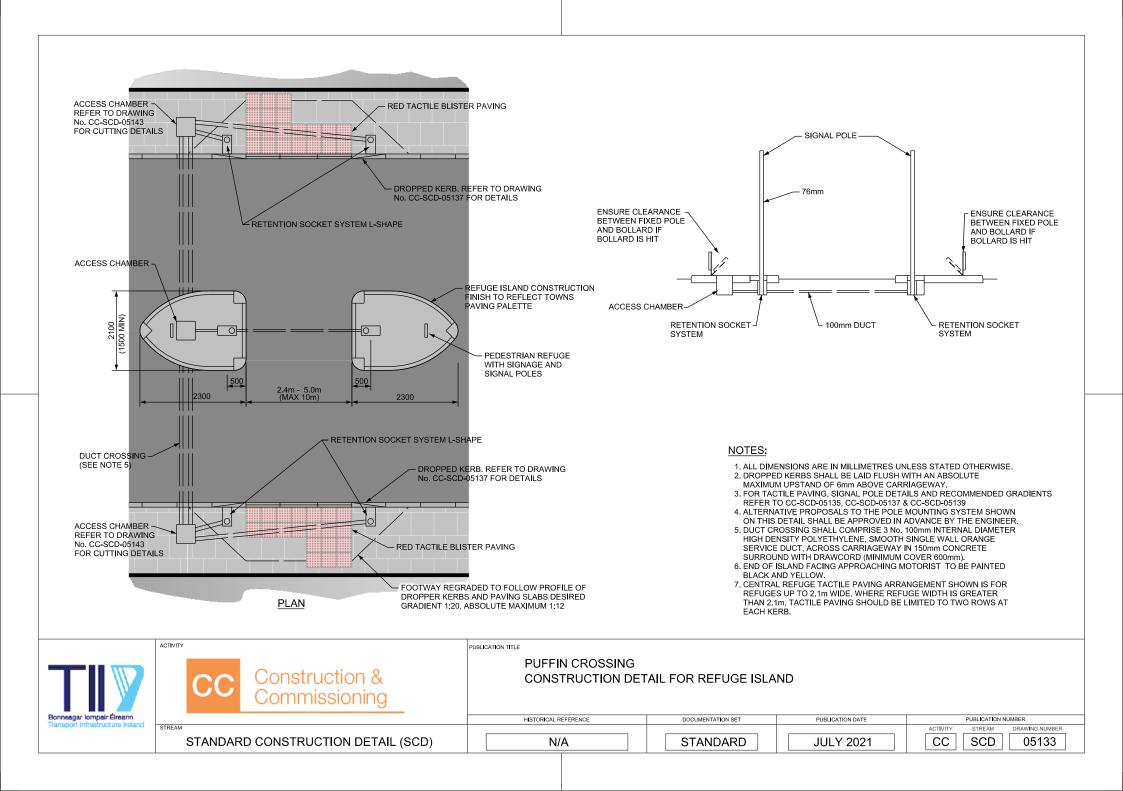
Commissioning

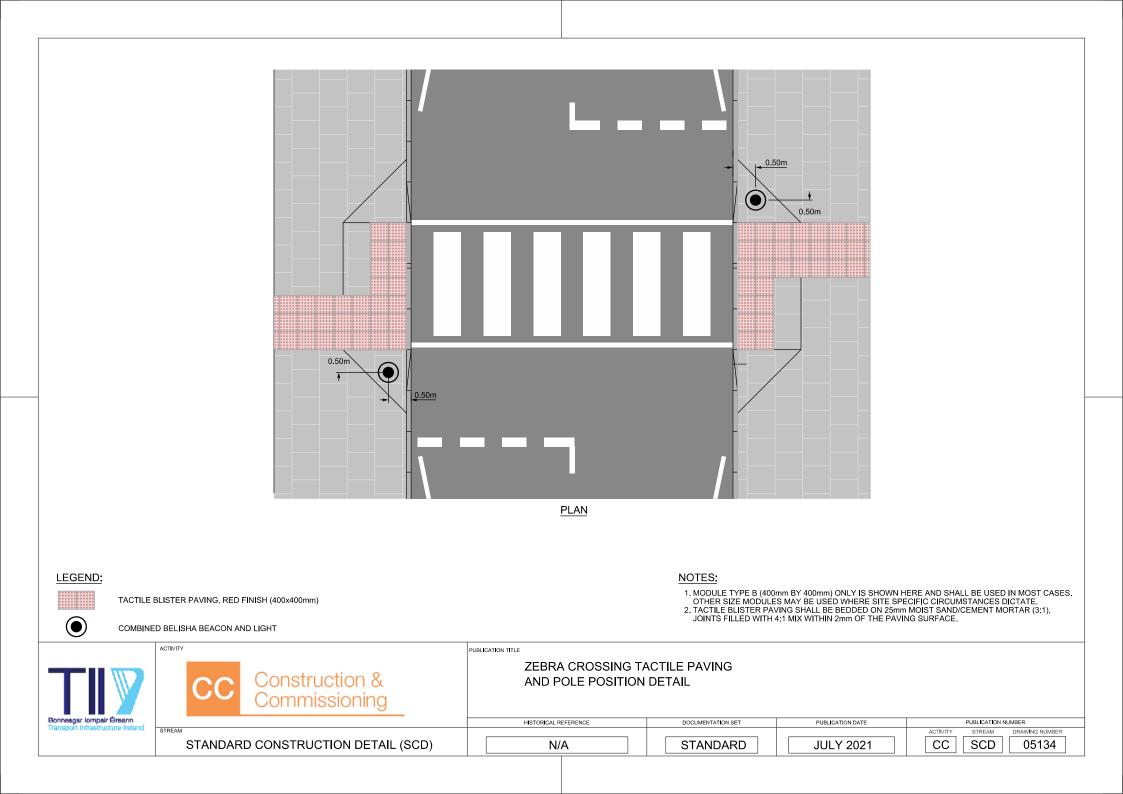


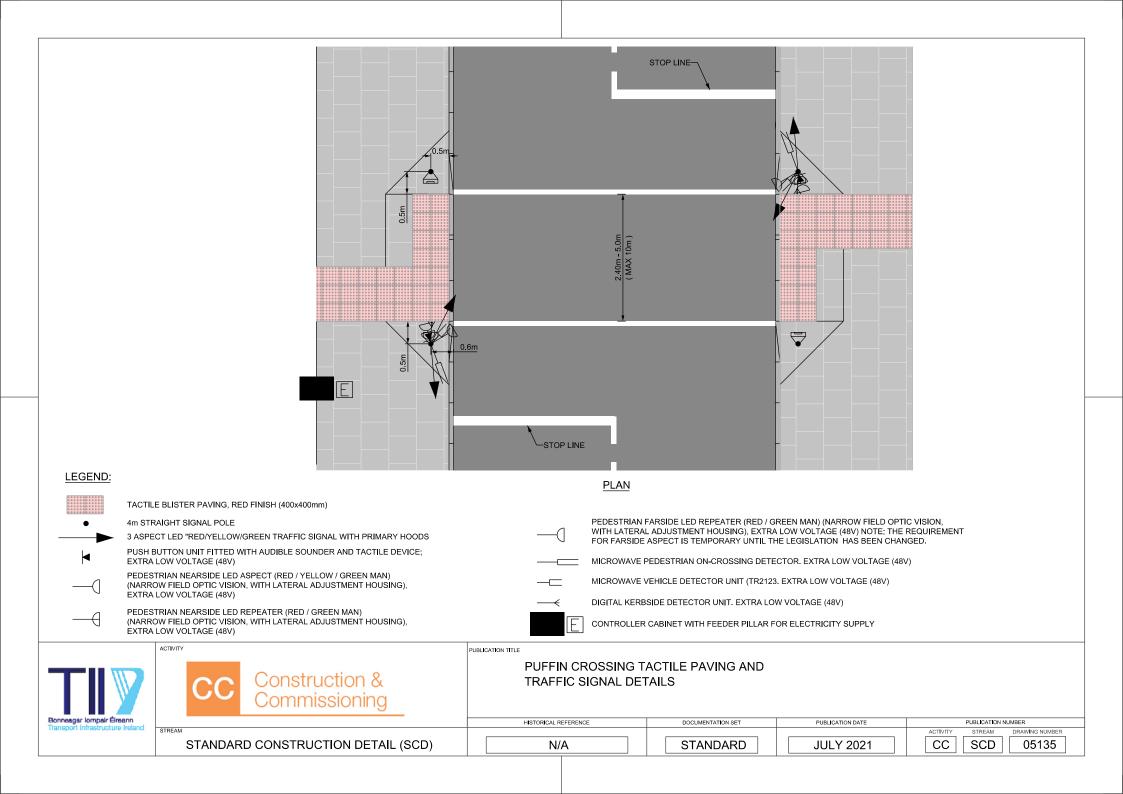


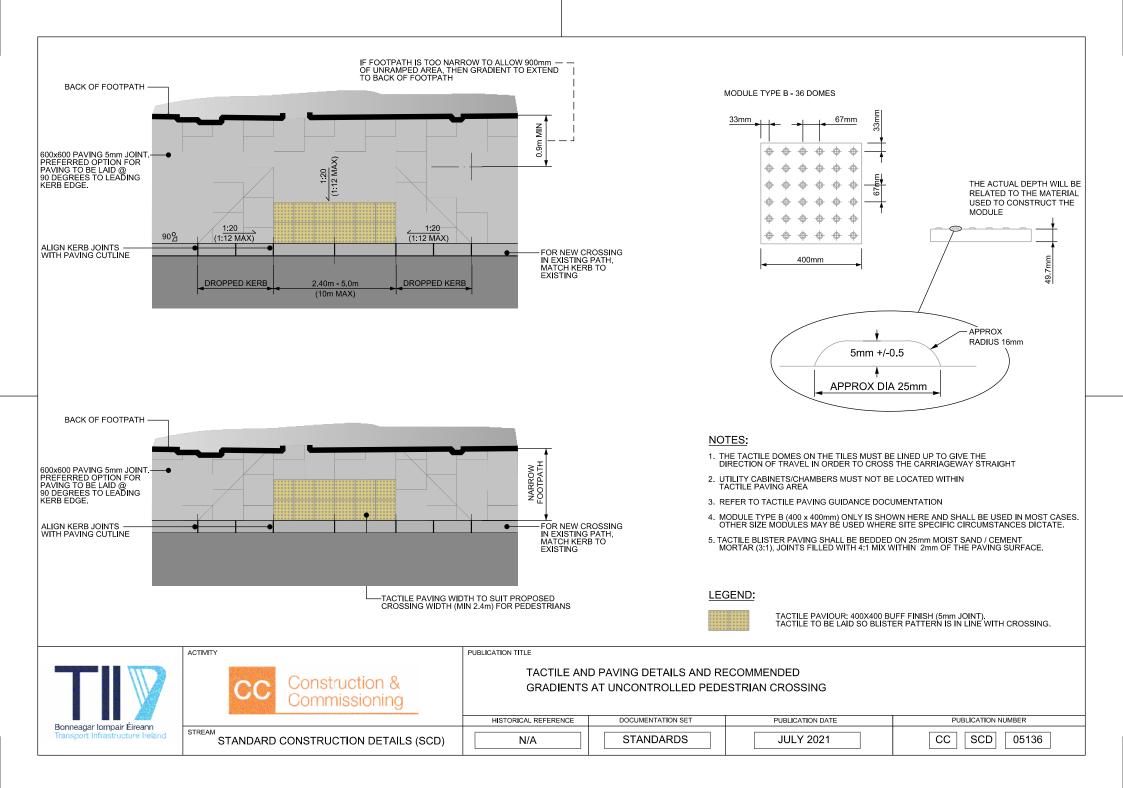


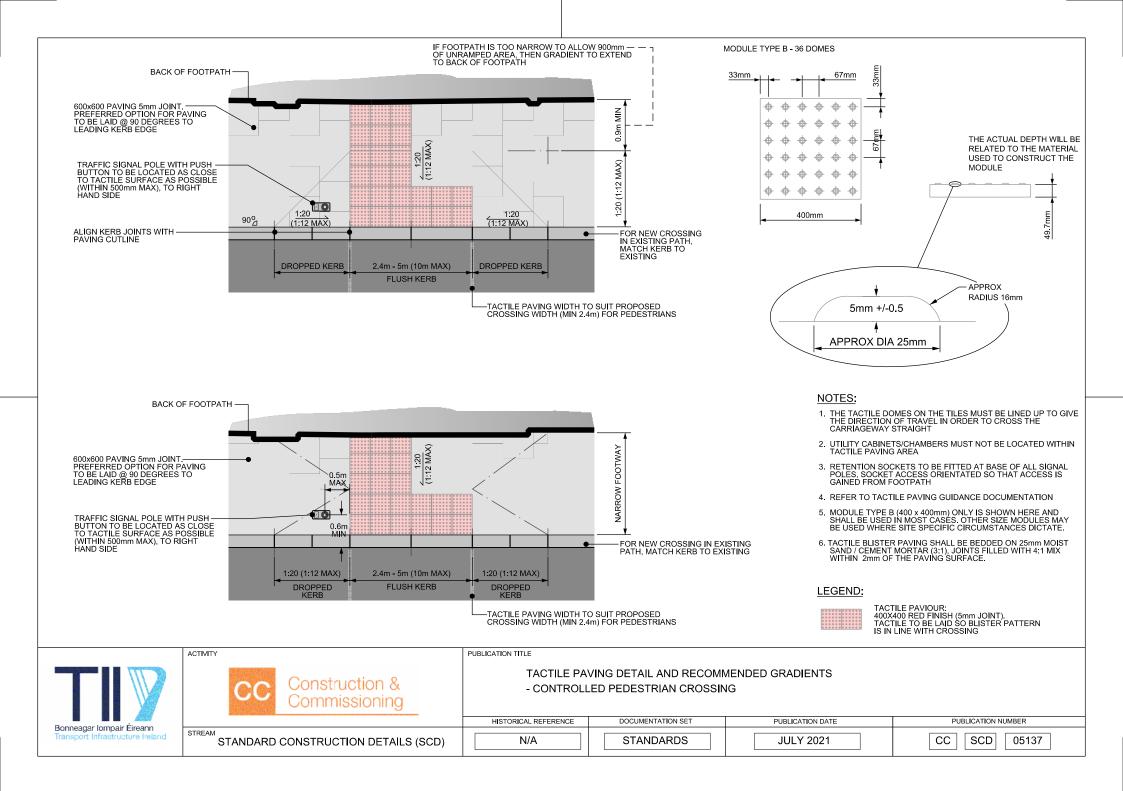


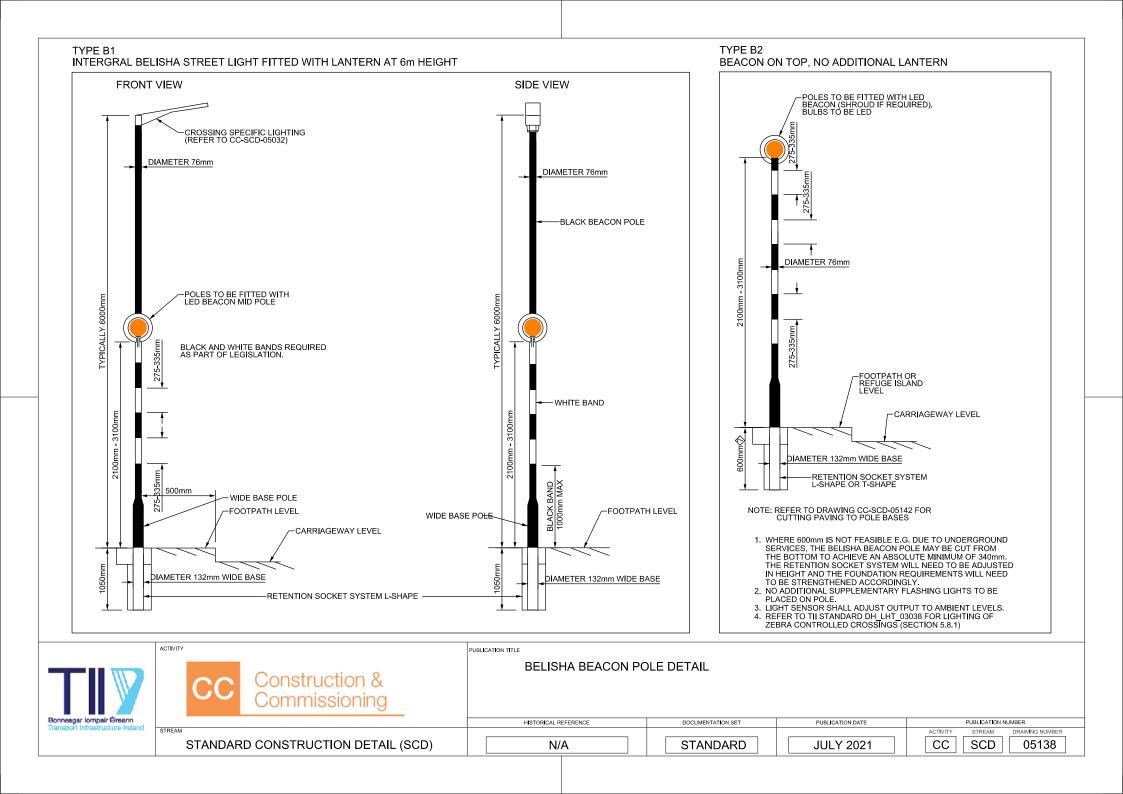




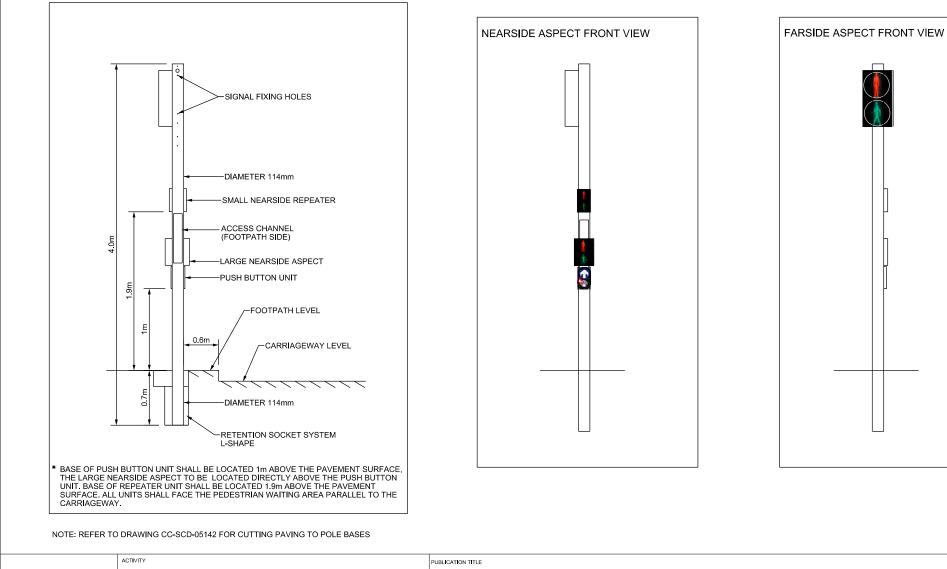




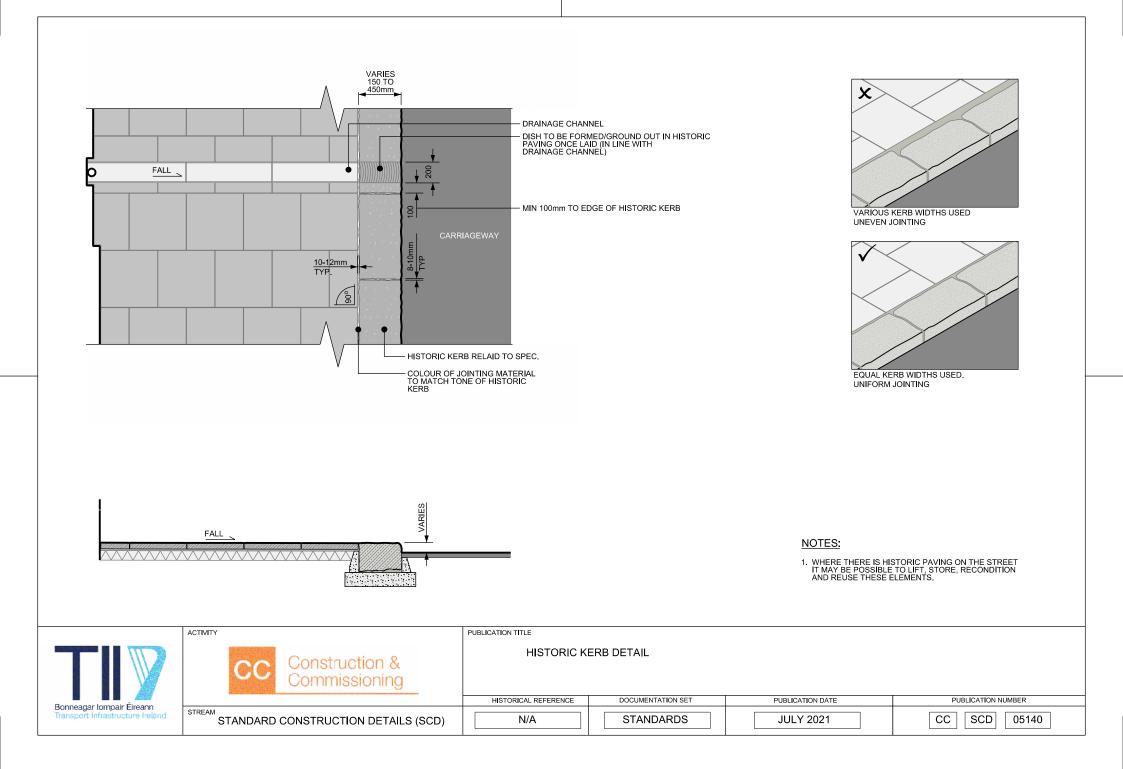


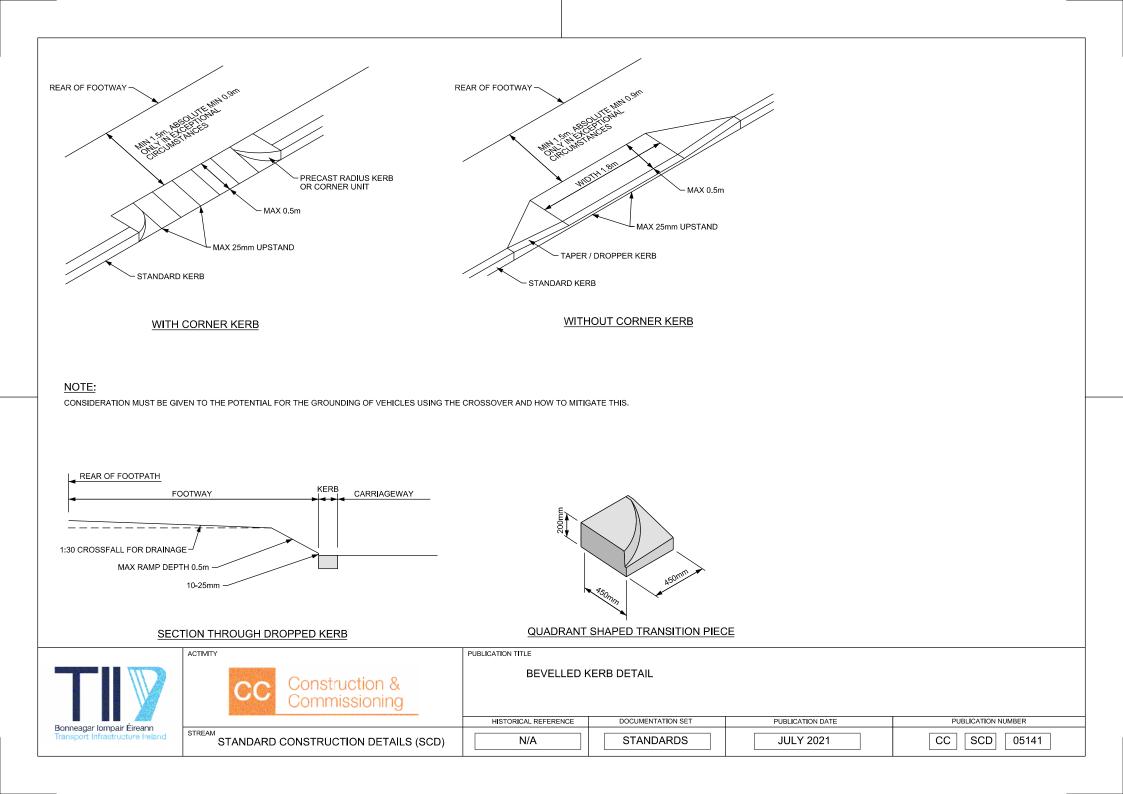


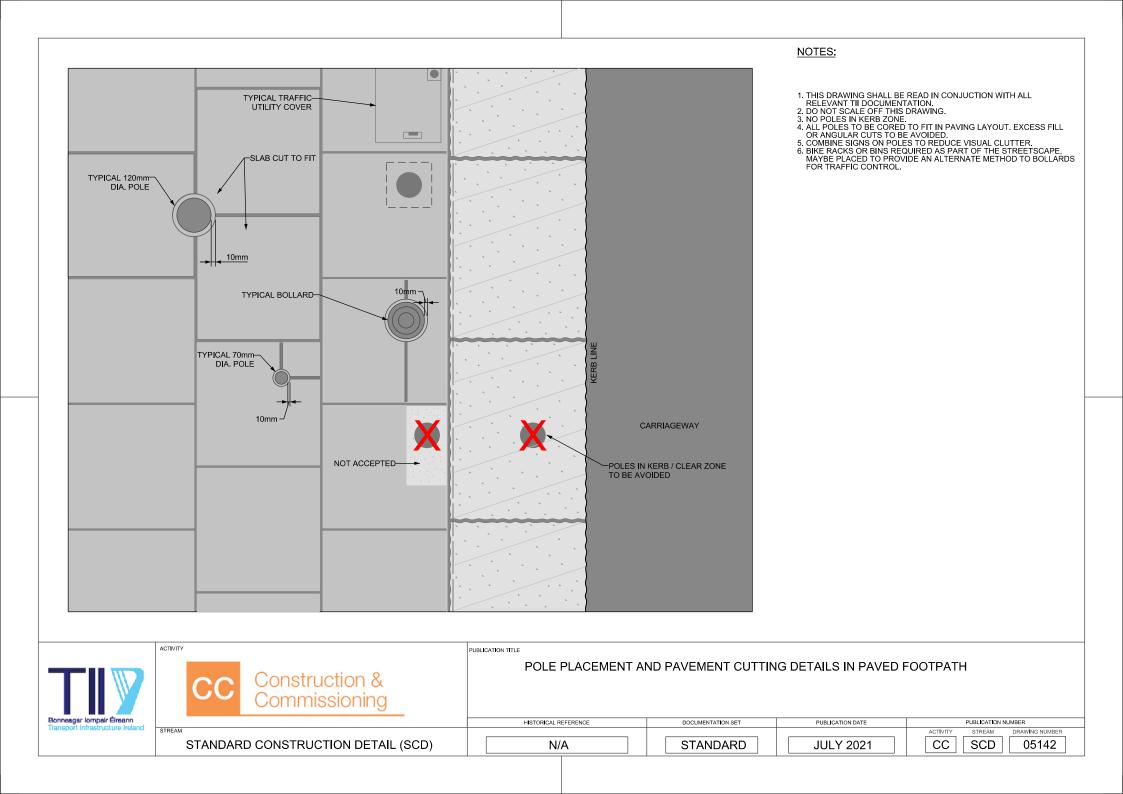
## 4m/114mm SIGNAL POLE INSTALLATION ON FOOTPATH

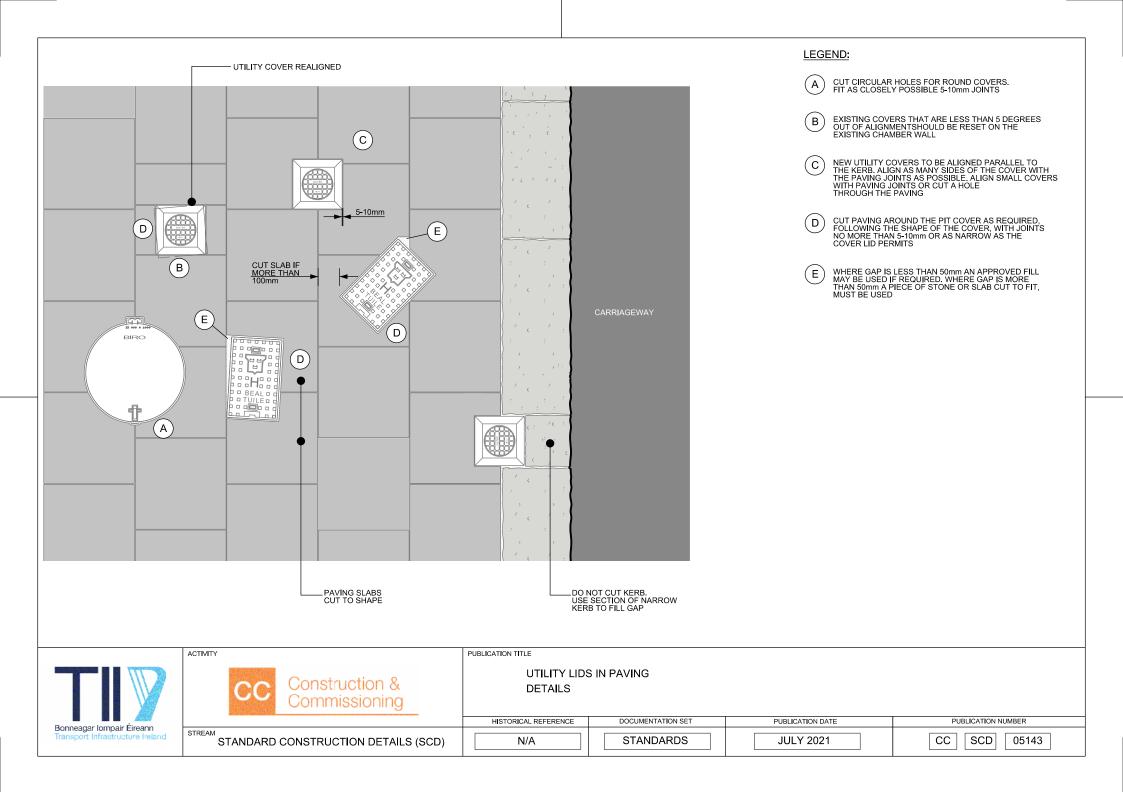


	ACTIVITY		PUBLICATION TITLE				
	CC	Construction & Commissioning	PUFFIN CROSSING SIGNAL POLE DETAIL				
Bonneagar lompair Éireann			HISTORICAL REFERENCE	DOCUMENTATION SET	PUBLICATION DATE	PUBLICATION NUMBER	
Transport Infrastructure Ireland	STANDARD CONSTRUCTION DETAIL (SCD)		N/A	STANDARD	JULY 2021	ACTIVITY STREAM DRAWING NUMBER	

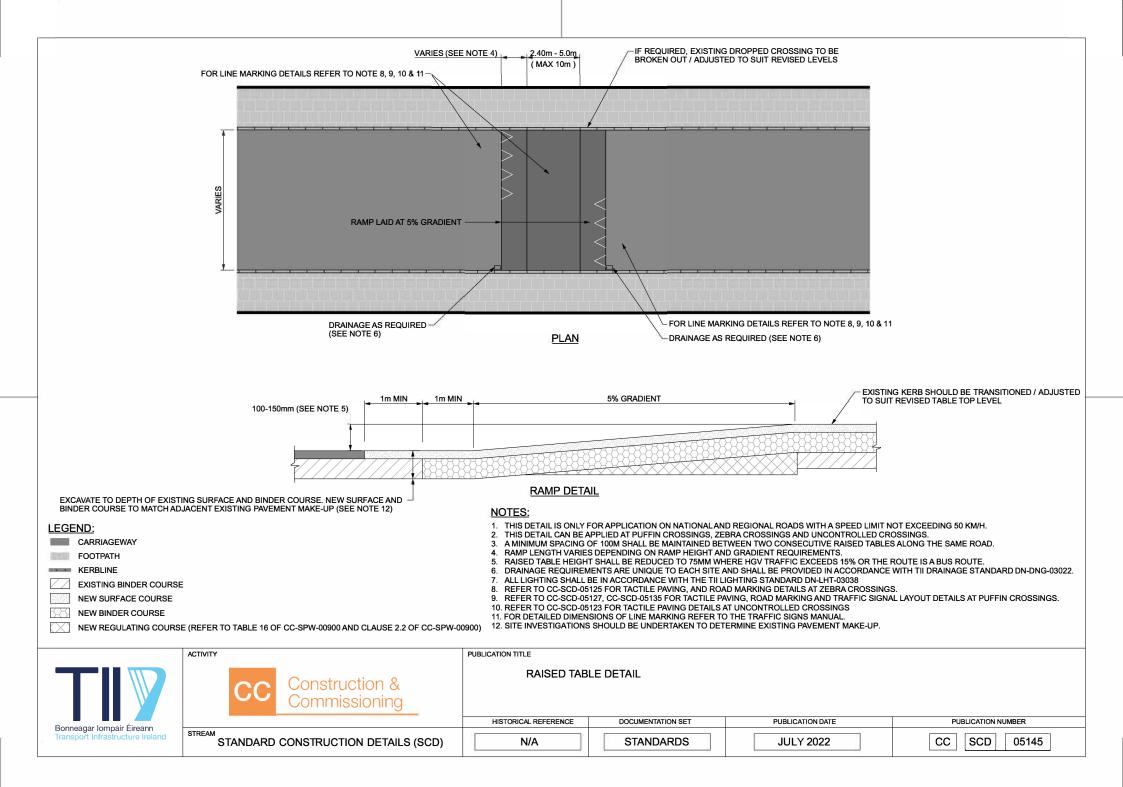








GRATE SLOTS SI	HOULD BE AT RIGHT C IRECTION OF TRAVEL	CYCLE FRIENDLY GRATI YCLE FRIENDLY GRATES CAN TA SEVERAL DIFFERENT FORMS, TH SEING ANOTHER EXAMPLE. THES RATES SHOULD BE SLIP RESISTA	KE IS SE	CYCLE FRIENDLY ABOVE IS AN EXAMPLE OF A GRATING THAT MAY BE USE O WHERE CYCLES ARE NOT	N HIGH VOLUME N THE NETWORK			
NOTES:         1. DRAINAGE GUILLES. CHANNELS AND MANHOLE COVERS CAN PRESENT HAZARDS TO CYCLISTS AND SHOULD BE LOCATED         AWAY FROM TRAVELLING SURFACE USED BY CYCLISTS. THIS IS PARTICULARLY IMPORTANT ON BENDS AND SHARP CURVES         AS WET RONMONGERY LS QUITE LIKELY TO CAUSE CYCLISTS. THIS IS PARTICULARLY MPORTANT ON BENDS AND SHARP CURVES         PARALLEL TO BICYCLE WHEELS ARE ALSO A SERIOUS HAZRAD TO CYCLISTS.         2. CYCLE FREINDLY DEGISION SOLUTIONS INCLUDE:         • OFFLINE POSITIONNING FOR MANHOLES ETC.         • SDE ENTRY GUILLES:         • CONTINUOUS KERB DRAINAGE.         1. IF RIGNMONGERY CANNOT EET COFFLINE, IT MUST BE FINISHED FLUSH (TYPICALLY +/-5mm) AND RECESSED MANHOLE         COVERS SHOULD BE COCATED OFFLINE, IT MUST BE FINISHED FLUSH (TYPICALLY +/-5mm) AND RECESSED MANHOLE         COVERS SHOULD BE CONSIDERED TO AVOID SUPPERY METAL SURFACES.         4. IF GUILLES CANNOT BE LOCATED OFFLINE, HARS TO THE CYCLING DIRECTION.								
ACTIVITY PUBLICATION TITLE								
	CC Construction & Commissioning	NDLY GULLY DETAILS	PUBLICATION DATE	PUBLICATION NUMBER				
Bonneagar Iompair Éireann Transport Infrastructure Ireland	STREAM STANDARD CONSTRUCTION DETAILS (SCD)	HISTORICAL REFERENCE	STANDARDS	JULY 2021	CC SCD 05144			







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