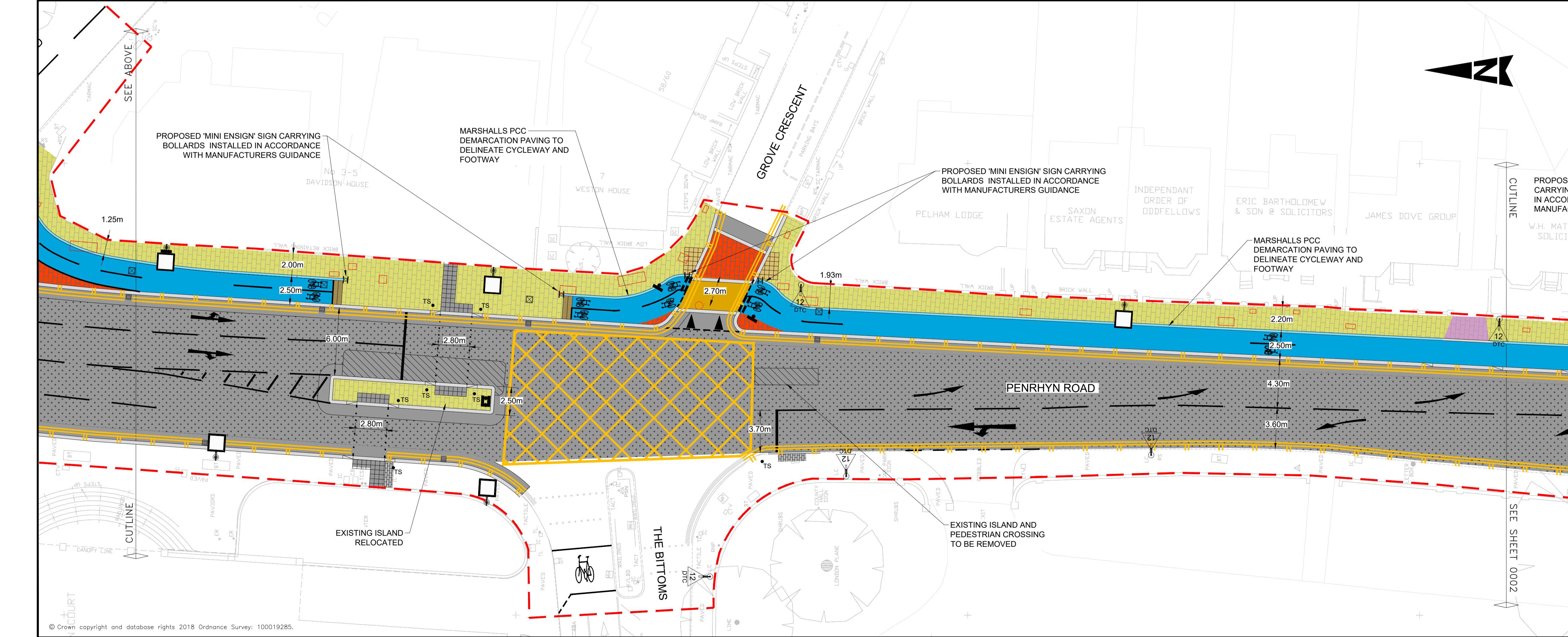


- NOTES:**
- IT IS THE CONTRACTORS RESPONSIBILITY TO CHECK THE LOCATION OF THE EXISTING STATUTORY SERVICES PRIOR TO CONSTRUCTION, PARTICULAR ATTENTION IS DRAWN TO THE "NEW ROADS AND STREET WORKS ACT 1991".
 - THIS DRAWING IS A GENERAL ARRANGEMENT AND NOT FOR CONSTRUCTION PURPOSES.
 - REFER TO THE DRAWINGS REGISTER FOR THE FULL LIST OF DETAILED DRAWINGS.
 - EXISTING LIGHTING COLUMN REPOSITIONED/RENEWED AT REAR OF FOOTWAY AS DEEMED NECESSARY. INCREASED LENGTH OF BRACKET ARM UP TO 2.5m MAY BE REQUIRED. EXACT LOCATION T.B.C. ON SITE.
 - CABLEING ASSOCIATED WITH ANY RELOCATED LIGHTING COLUMNS AND ILLUMINATED SIGNS WILL NEED TO BE HOUSED WITHIN DUCTS IN ACCORDANCE WITH LOGIC REQUIREMENTS.
 - ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
 - LAYOUT SHOWN IN BLUE IS THE WHEATFIELD WAY DESIGN.
 - TRAFFIC SIGNAL POLES SHOWN INDICATIVE ONLY. SIGNALS TO BE DESIGNED BY TIL.
- GENERAL KEY:**
- NEW PCC TACTILE BLISTER PAVING (CHARCOAL) 400x400x65mm
 - NEW PCC TACTILE BLISTER PAVING (BUFF) 400x400x65mm
 - NEW PCC TACTILE TRAMLINE PAVING (BUFF) 400x400x65mm
 - NEW MARSHALLS CONCRETE DEMARCATION PAVING 200x200x80mm
 - NEW EDGING KERB 50x150mm (PCC)
 - NEW KERB LINE (SILVER GREY GRANITE)
 - NEW SINUSOIDAL KERB/RAMP SYSTEM (PCC)
 - NEW GRANITE COBBLES, 2 ROWS OF 100x100x100mm COBBLES
 - NEW HIGHWAY GULLY OR FOOTWAY GULLY
 - NEW CATCHPIT CONSTRUCTED IN PLACE OF EXISTING GULLY
 - NEW SIGN FACE AND POST ARRANGEMENT
 - NEW/RE-ERECTED SIGN FACE
 - NEW MINI ENSIGN BOLLARD
 - NEW LANTERN ON TOP OF EXISTING COLUMN
 - NEW SINGLE ARM LIGHTING COLUMN, EXACT LOCATION OF COLUMN T.B.C. WITH R.B.K.
 - EXISTING MANHOLE COVER TO BE RAISED/LOWERED WITH NEW INFILL COVER
 - NEW HIGHWAY BOUNDARY DEMARCATION STUD IN STAINLESS STEEL
 - NEW BUS STOP FLAG
 - NEW TRAFFIC SIGNAL POLE BY TIL
 - SCHEME EXTENTS
- SURFACING KEY:**
- EXISTING PAVING FLAGS BROUGHT BACK FROM STORE AND RELAID IN FOOTWAY
 - NEW ASP PAVED FOOTWAY
 - NEW FIBRE RE-INFORCED ASP PAVED FOOTWAY, BEDDING LAYER AND JOINTING TO BE STEINTECH
 - NEW GRANITE SETTS
 - NEW SEGREGATED CYCLE LANE ASPHALT CONCRETE
 - NEW OR RE-SURFACED FOOTWAYS ASPHALT CONCRETE
 - RE-SURFACED CARRIAGEWAY ASPHALT CONCRETE (40mm)
 - RE-SURFACED CARRIAGEWAY ASPHALT CONCRETE (100mm)
 - NEW FULL DEPTH CARRIAGEWAY CONSTRUCTION ASPHALT CONCRETE
 - BUFF RESIN BASED HIGH SKID RESISTANT SURFACE TREATMENT WITH 3mm GUYANAN BAUXITE
 - NEW TOPSOIL TO A DEPTH OF 600mm WITHIN ISLAND. LANDSCAPING TO BE COMPLETED AT A LATER DATE.

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:



CONSTRUCTION

UNIVERSITY AND COURT ARE IN THE VICINITY EXPECT HIGH AND VULNERABLE PEDESTRIAN FLOW

MAINTENANCE/CLEANING

UNIVERSITY AND COURT ARE IN THE VICINITY EXPECT HIGH AND VULNERABLE PEDESTRIAN FLOW

DECOMMISSIONING/DEMOLITION

UNIVERSITY AND COURT ARE IN THE VICINITY EXPECT HIGH AND VULNERABLE PEDESTRIAN FLOW

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

Rev.	Date	Description	By	PE	CC
C5	23.11.18	LIGHTING AND SURFACING AMENDED	PT	PE	CC
C4	25.10.18	CONSTRUCTION ISSUE	PT	PE	CC
C3	01.08.18	SHARED USE AREA AND ISLAND DETAILS REVISED	PT	PE	CC
C2	23.07.18	TRAFFIC SIGNS AND GRANITE COBBLES ADDED	PT	PE	CC
C1	10.07.18	DRAFT FOR COMMENT	PT	PE	CC

Drawing Status: **FIT FOR CONSTRUCTION APPROVAL** Suitability: **S4**

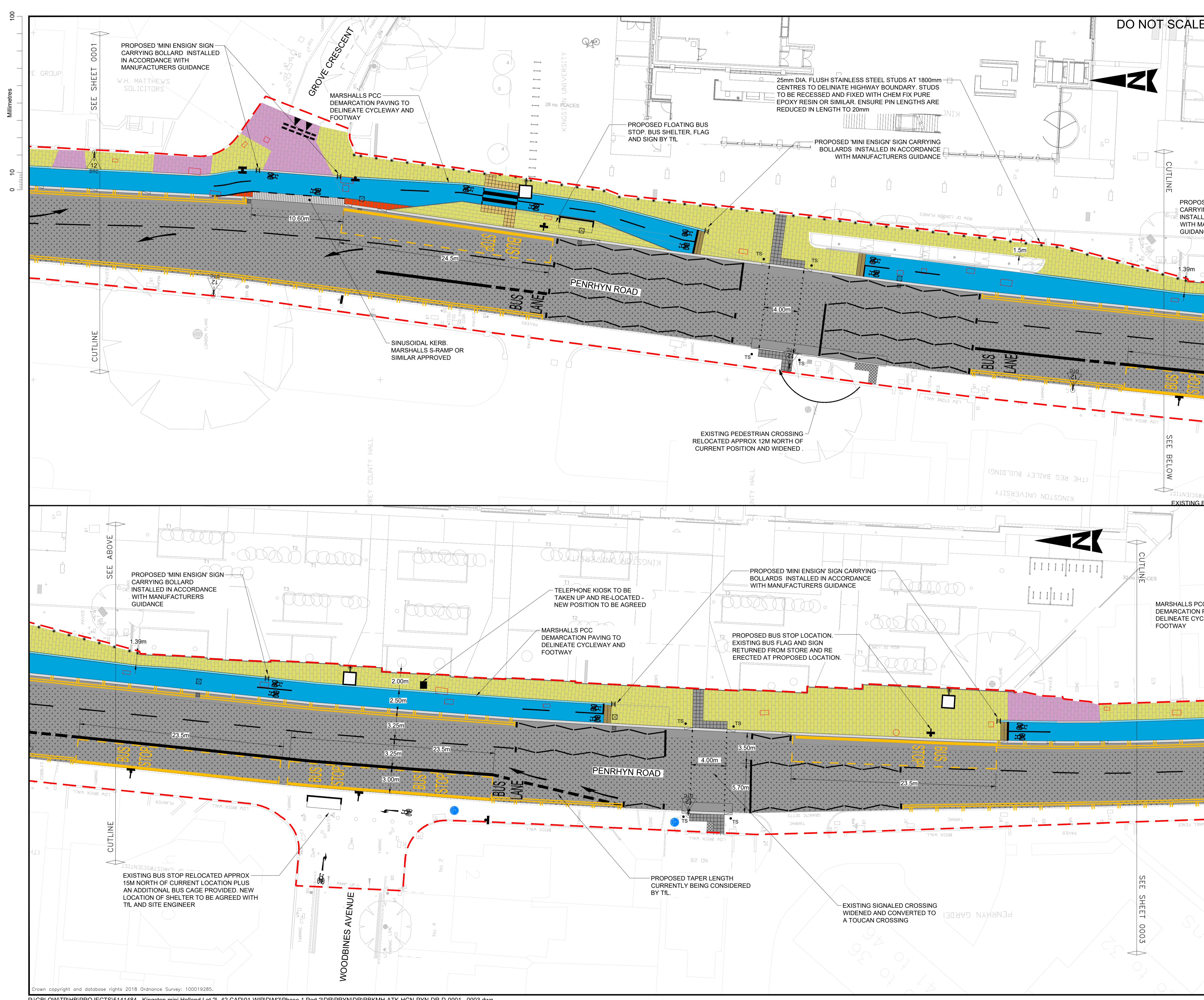
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Project Title: **KINGSTON MINI HOLLAND LOT 2**

Drawing Title: **PENRHYN ROAD DETAILED DESIGN GENERAL ARRANGEMENT SHEET 1 OF 3**

Scale	Designed	Drawn	Checked	Authorised
1:200	PT	PT	PE	CC
Original Size	Date	Date	Date	Date
A1	10.07.18	10.07.18	10.07.18	10.07.18
Drawing Number	Originator	Volume	Project Ref. No.	
MHL2	- ATK -	- HGN -	5141484	
PYN	- DR - D -	- 0001	Revision	
Location	Type	Role	Number	
			C5	



DO NOT SCALE

- NOTES:**
- IT IS THE CONTRACTORS RESPONSIBILITY TO CHECK THE LOCATION OF THE EXISTING STATUTORY SERVICES PRIOR TO CONSTRUCTION. PARTICULAR ATTENTION IS DRAWN TO THE "NEW ROADS AND STREET WORKS ACT 1991".
 - THIS DRAWING IS A GENERAL ARRANGEMENT AND NOT FOR CONSTRUCTION PURPOSES.
 - REFER TO THE DRAWINGS REGISTER FOR THE FULL LIST OF DETAILED DRAWINGS.
 - EXISTING LIGHTING COLUMN REPOSITIONED/RENEWED AT REAR OF FOOTWAY AS DEEMED NECESSARY. INCREASED LENGTH OF BRACKET ARM UP TO 2.5m MAY BE REQUIRED. EXACT LOCATION T.B.C. ON SITE.
 - CABLEING ASSOCIATED WITH ANY RELOCATED LIGHTING COLUMNS AND ILLUMINATED SIGNS WILL NEED TO BE HOUSED WITHIN DUCTS IN ACCORDANCE WITH LORISC REQUIREMENTS.
 - ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
 - LAYOUT SHOWN IN BLUE IS THE WHEATFIELD WAY DESIGN.
 - TRAFFIC SIGNAL POLES SHOWN INDICATIVE ONLY. SIGNALS TO BE DESIGNED BY TIL.
- GENERAL KEY:**
- NEW PCC TACTILE BLISTER PAVING (CHARCOAL) 400x400x65mm
 - NEW PCC TACTILE BLISTER PAVING (BUFF) 400x400x65mm
 - NEW PCC TACTILE TRAMLINE PAVING (BUFF) 400x400x65mm
 - NEW MARSHALLS CONCRETE DEMARCATION PAVING 200x200x80mm
 - NEW EDGING KERB 50x150mm (PCC)
 - NEW KERB LINE (SILVER GREY GRANITE)
 - NEW SINUSOIDAL KERB/RAMP SYSTEM (PCC)
 - NEW GRANITE COBBLES, 2 ROWS OF 100x100x100mm COBBLES
 - NEW HIGHWAY GULLY OR FOOTWAY GULLY
 - NEW CATCHPIT CONSTRUCTED IN PLACE OF EXISTING GULLY
 - NEW SIGN FACE AND POST ARRANGEMENT
 - NEW RE-ERECTED SIGN FACE
 - NEW MINI ENSIGN BOLLARD
 - NEW LANTERN ON TOP OF EXISTING COLUMN
 - NEW SINGLE ARM LIGHTING COLUMN, EXACT LOCATION OF COLUMN T.B.C. WITH R.B.K.
 - EXISTING MANHOLE COVER TO BE RAISED/LOWERED WITH NEW INFILL COVER
 - NEW HIGHWAY BOUNDARY DEMARCATION STUD IN STAINLESS STEEL
 - NEW BUS STOP FLAG
 - NEW TRAFFIC SIGNAL POLE BY TIL
 - SCHEME EXTENTS
- SURFACING KEY:**
- EXISTING PAVING FLAGS BROUGHT BACK FROM STORE AND RELAID IN FOOTWAY
 - NEW ASP PAVED FOOTWAY
 - NEW FIBRE RE-INFORCED ASP PAVED FOOTWAY, BEDDING LAYER AND JOINTING TO BE STEINTECH
 - NEW GRANITE SETTS
 - NEW SEGREGATED CYCLE LANE ASPHALT CONCRETE
 - NEW OR RE-SURFACED FOOTWAYS ASPHALT CONCRETE
 - RE-SURFACED CARRIAGEWAY ASPHALT CONCRETE (40mm)
 - RE-SURFACED CARRIAGEWAY ASPHALT CONCRETE (100mm)
 - NEW FULL DEPTH CARRIAGEWAY CONSTRUCTION ASPHALT CONCRETE
 - BUFF RESIN BASED HIGH SKID RESISTANT SURFACE TREATMENT WITH 3mm GUYANAN BAUXITE
 - NEW TOPSOIL TO A DEPTH OF 600MM WITHIN ISLAND. LANDSCAPING TO BE COMPLETED AT A LATER DATE.

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

CONSTRUCTION
UNIVERSITY AND COURT ARE IN THE VICINITY EXPECT HIGH AND VULNERABLE PEDESTRIAN FLOW

MAINTENANCE/CLEANING
UNIVERSITY AND COURT ARE IN THE VICINITY EXPECT HIGH AND VULNERABLE PEDESTRIAN FLOW

DECOMMISSIONING/DEMOLITION
UNIVERSITY AND COURT ARE IN THE VICINITY EXPECT HIGH AND VULNERABLE PEDESTRIAN FLOW

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

Rev.	Date	Description	By	Chkd	App'd
C5	23.11.18	LIGHTING AND SURFACING AMENDED ON SHEET 1	PT	PE	CC
C4	25.10.18	CONSTRUCTION ISSUE	PT	PE	CC
C3	01.08.18	SHARED USE ROUNDALS AMENDED AND KERBING AMENDED	PT	PE	CC
C2	20.07.18	ROAD SIGNS AND GRANITE SETTS ADDED	PT	PE	CC
C1	10.07.18	DRAFT FOR COMMENT	PT	PE	CC

Drawing Status: **FIT FOR CONSTRUCTION APPROVAL** Suitability: **S4**

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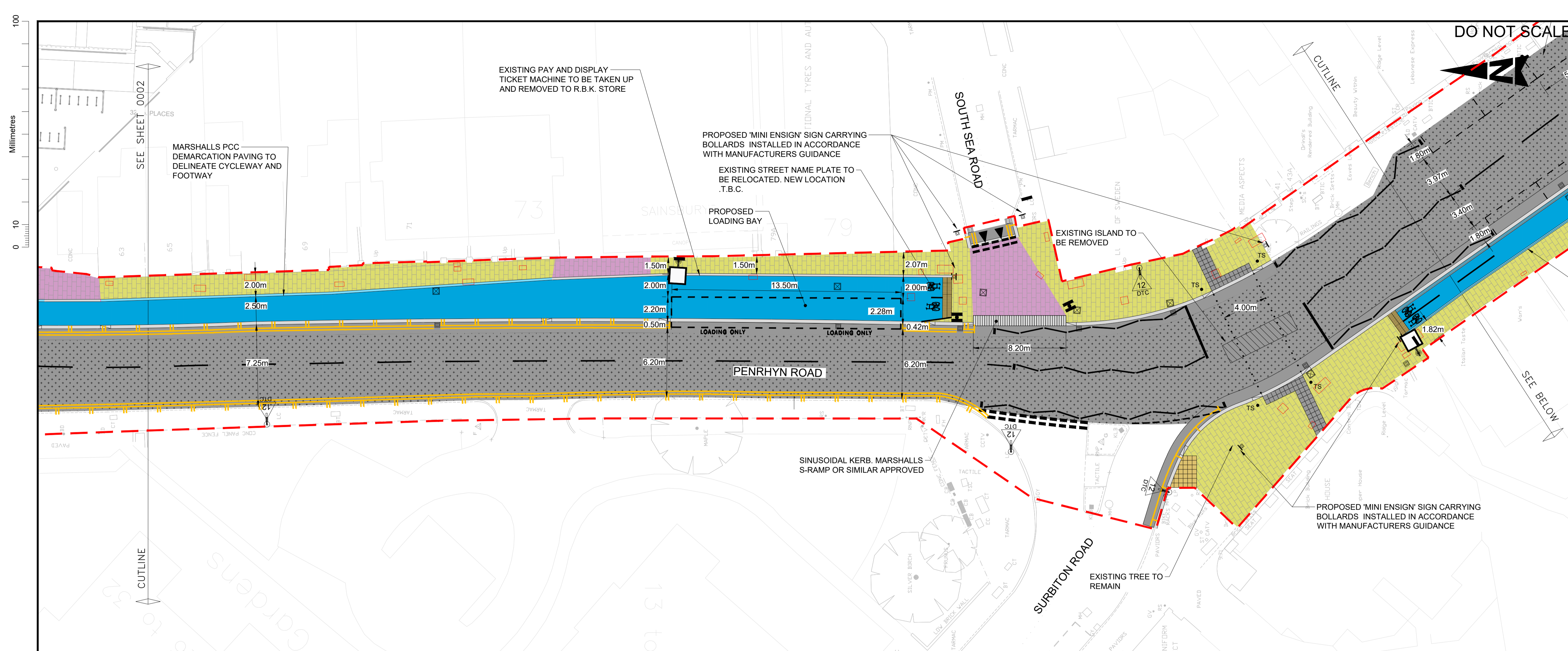


Project Title: **KINGSTON MINI HOLLAND LOT 2**

Drawing Title: **PENRHYN ROAD DETAILED DESIGN GENERAL ARRANGEMENT SHEET 2 OF 3**

Scale	Designed	Drawn	Checked	Authorised
1:200	PT	PT	PE	CC
Original Size	Date	Date	Date	Date
A1	10.07.18	10.07.18	10.07.18	10.07.18

Drawing Number	Originator	Volume	Project Ref. No.
MHL2	ATK	HGN	5141484
HA PIN	Type	Role	Number
PYN	DR	D	0002
			Revision: C5



DO NOT SCALE

NOTES:

- IT IS THE CONTRACTORS RESPONSIBILITY TO CHECK THE LOCATION OF THE EXISTING STATUTORY SERVICES PRIOR TO CONSTRUCTION. PARTICULAR ATTENTION IS DRAWN TO THE 'NEW ROADS AND STREET WORKS ACT 1991'.
- THIS DRAWING IS A GENERAL ARRANGEMENT AND NOT FOR CONSTRUCTION PURPOSES.
- REFER TO THE DRAWINGS REGISTER FOR THE FULL LIST OF DETAILED DRAWINGS.
- EXISTING LIGHTING COLUMN REPOSITIONED/RENEWED AT REAR OF FOOTWAY AS DEEMED NECESSARY. INCREASED LENGTH OF BRACKET ARM UP TO 2.5m MAY BE REQUIRED. EXACT LOCATION T.B.C. ON SITE.
- CABLEING ASSOCIATED WITH ANY RELOCATED LIGHTING COLUMNS AND ILLUMINATED SIGNS WILL NEED TO BE HOUSED WITHIN DUCTS IN ACCORDANCE WITH LHOAC REQUIREMENTS.
- ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
- LAYOUT SHOWN IN THIS IS THE UNFIELD MAY DESIGN.
- TRAFFIC SIGNAL POLES SHOWN INDICATIVE ONLY. SIGNALS TO BE DESIGNED BY TIL.

GENERAL KEY:

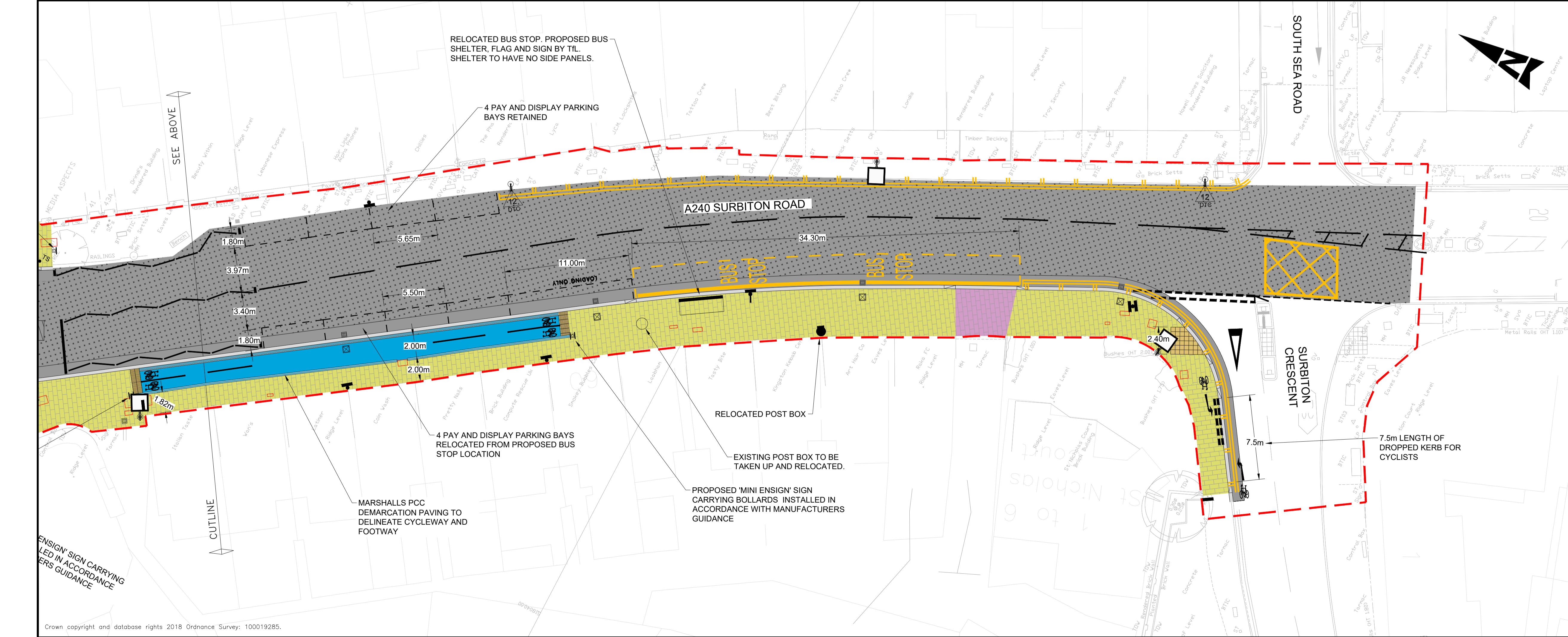
- NEW PCC TACTILE BLISTER PAVING (CHARCOAL) 400x400x65mm
- NEW PCC TACTILE BLISTER PAVING (BUFF) 400x400x65mm
- NEW PCC TACTILE TRAMLINE PAVING (BUFF) 400x400x65mm
- NEW MARSHALLS CONCRETE DEMARCATION PAVING 200x200x80mm
- NEW EDGING KERB 50x150mm (PCC)
- NEW KERB LINE (SILVER GREY GRANITE)
- NEW SINUSOIDAL KERB/RAMP SYSTEM (PCC)
- NEW GRANITE COBBLES. 2 ROWS OF 100x100x100mm COBBLES
- NEW HIGHWAY GULLY OR FOOTWAY GULLY
- NEW CATCHPIT CONSTRUCTED IN PLACE OF EXISTING GULLY
- NEW SIGN FACE AND POST ARRANGEMENT
- NEW/RE ERRECTED SIGN FACE
- NEW MINI ENSIGN BOLLARD
- NEW LANTERN ON TOP OF EXISTING COLUMN
- NEW SINGLE ARM LIGHTING COLUMN. EXACT LOCATION OF COLUMN T.B.C. WITH R.B.K.
- EXISTING MANHOLE COVER TO BE RAISED/LOWERED WITH NEW INFILL COVER
- NEW HIGHWAY BOUNDARY DEMARCATION STUD IN STAINLESS STEEL
- NEW BUS STOP FLAG
- NEW TRAFFIC SIGNAL POLE BY TIL
- NEW TRAFFIC SIGNAL POLE BY TIL
- SCHEME EXTENTS

SURFACING KEY:

- EXISTING PAVING FLAGS BROUGHT BACK FROM STORE AND RELAID IN FOOTWAY
- NEW ASP PAVED FOOTWAY
- NEW FIBRE RE-INFORCED ASP PAVED FOOTWAY. BEDDING LAYER AND JOINTING TO BE STIENTECH
- NEW GRANITE SETTS
- NEW SEGREGATED CYCLE LANE ASPHALT CONCRETE
- NEW OR RE-SURFACED FOOTWAYS ASPHALT CONCRETE
- RE-SURFACED CARRIAGEWAY ASPHALT CONCRETE (40mm)
- RE-SURFACED CARRIAGEWAY ASPHALT CONCRETE (100mm)
- NEW FULL DEPTH CARRIAGEWAY CONSTRUCTION ASPHALT CONCRETE
- BUFF RESIN BASED HIGH SKID RESISTANT SURFACE TREATMENT WITH 3mm GUYANAN BALXITE
- NEW TOPSOIL TO A DEPTH OF 600MM WITHIN ISLAND. LANDSCAPING TO BE COMPLETED AT A LATER DATE.

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:



CONSTRUCTION
UNIVERSITY AND COURT ARE IN THE VICINITY EXPECT HIGH AND VULNERABLE PEDESTRIAN FLOW

MAINTENANCE/CLEANING
UNIVERSITY AND COURT ARE IN THE VICINITY EXPECT HIGH AND VULNERABLE PEDESTRIAN FLOW

DECOMMISSIONING/DEMOLITION
UNIVERSITY AND COURT ARE IN THE VICINITY EXPECT HIGH AND VULNERABLE PEDESTRIAN FLOW

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

Rev.	Date	Description	By	Chk'd	App'd
C5	23.11.18	LIGHTING AND SURFACING AMENDED ON SHEET 1	PT	PE	CC
C4	25.10.18	CONSTRUCTION ISSUE	PT	PE	CC
C3	3.07.18	AMENDMENTS MADE ON SHEETS 1 AND 2	PT	PE	CC
C2	23.07.18	TRAFFIC SIGNS AND GRANITE COBBLES ADDED	PT	PE	CC
C1	10.07.18	DRAFT FOR COMMENT	PT	PE	CC

Drawing Status: **FIT FOR CONSTRUCTION APPROVAL** Suitability: **S4**

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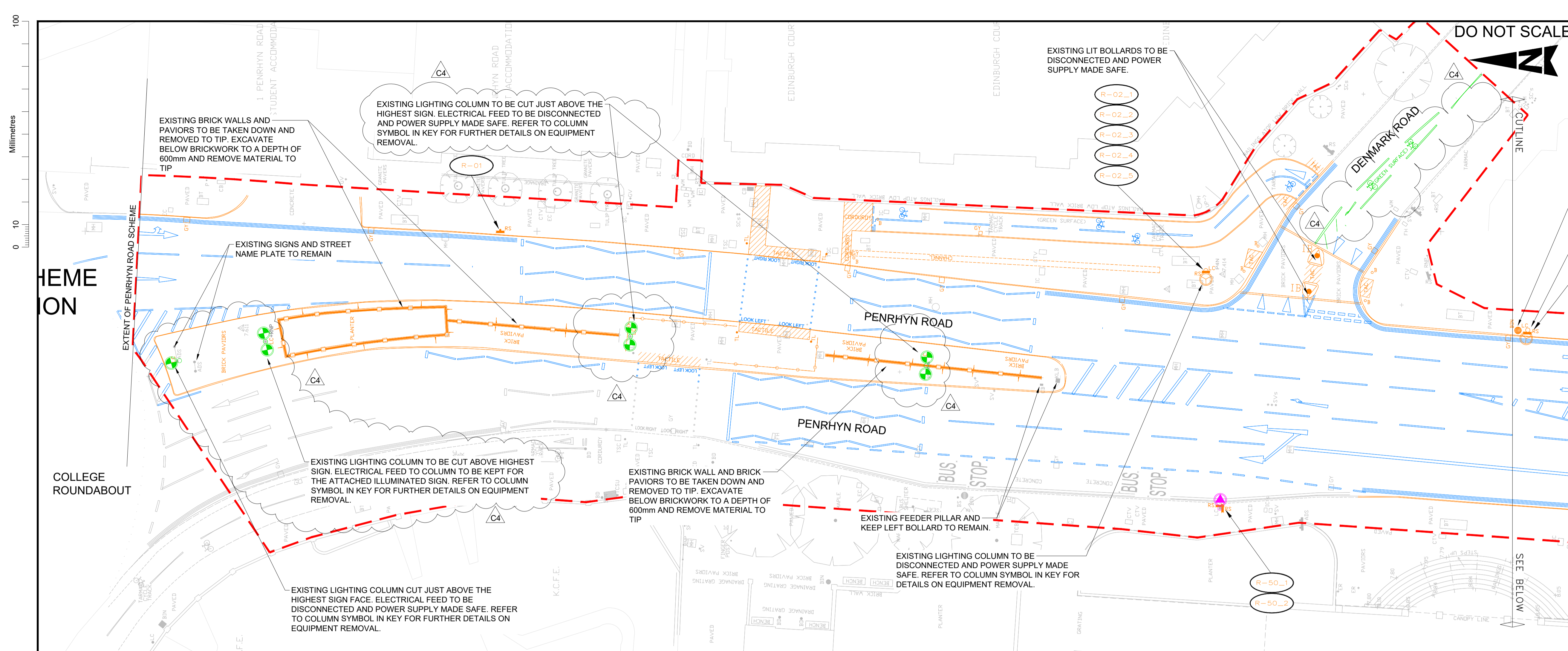
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Client: **KINGSTON MINI HOLLAND LOT 2**

Project Title: **PENRHYN ROAD DETAILED DESIGN GENERAL ARRANGEMENT SHEET 3 OF 3**

Scale	Designed	Drawn	Checked	Authorised
1:200	PT	PT	PE	CC
Original Size	Date	Date	Date	Date
A1	10.07.18	10.07.18	10.07.18	10.07.18

Drawing Number	Originator	Volume	Project Ref. No.
MHL2	ATK	HGN	5141484
PYN	DR	D	0003
Location	Type	Role	Number
			C5



NOTES:

- IT IS THE CONTRACTORS RESPONSIBILITY TO CHECK THE LOCATION OF THE EXISTING STATUTORY SERVICES PRIOR TO CONSTRUCTION, PARTICULAR ATTENTION IS DRAWN TO THE "NEW ROADS AND STREET WORKS ACT 1991" REFER TO THE DRAWINGS REGISTER FOR THE FULL LIST OF DETAILED DESIGN DRAWINGS.
- PRIOR TO SITE CLEARANCE OPERATIONS, EXISTING SURVEY CONTROL POINTS TO BE IDENTIFIED AND CHECKED AND USED TO ESTABLISH A NEW CONTROL NETWORK CLEAR OF THE WORKS FOOTPRINT AS REQUIRED.
- REFER TO DRAWING RBKM-H-ATK-HSN-PYN-DR-D-0004 (EXISTING SIGNS SCHEDULE) FOR DETAILS OF SIGNS AND ASSOCIATED POLES TO BE REMOVED FROM SITE, SET ASIDE FOR RE-LOCATION, OR REMOVED TO STORE.
- ROAD MARKINGS WITHIN THE WORKS AREA COLOURED BLUE WILL BE REMOVED DURING PLANNING OR CONSTRUCTION OPERATIONS.

SITE CLEARANCE KEY:

- TAKE UP GULLY GRATING AND FRAME AND DISPOSE TO CONTRACTOR'S LICENSED TIP OFF SITE. REFER TO DRAINAGE DRAWINGS MHL2-ATK-HDG-DR-D-0001 TO 0003 FOR CONNECTION/DISCONNECTION DETAILS AND LEVEL ADJUSTMENTS REQUIRED.
- BREAK OUT EXISTING KERB OR CHANNEL (ANY TYPE), INCLUDING CONCRETE BEDDING AND BACKING, AND ALONG WITH ALL OTHER ARSINCS DISPOSE TO CONTRACTOR'S LICENSED TIP OFF SITE.
- TAKE UP EXISTING TACTILE PAVING SLABS (ANY TYPE), INCLUDING BEDDING, AND DISPOSE TO CONTRACTOR'S LICENSED TIP OFF SITE.
- EXISTING STREET FURNITURE TO BE EITHER REMOVED FROM SITE OR RE-LOCATED - REFER TO DRAWING NOTES FOR DETAILS.
- TAKE DOWN EXISTING FENCE OR GUARD RAIL (ANY TYPE) AND DISPOSE TO CONTRACTOR'S LICENSED TIP OFF SITE.
- TAKE DOWN EXISTING WALL AND REMOVE TO CONTRACTORS LICENSED TIP OFF SITE.
- EXISTING STEEL ROAD LIGHTING COLUMN TO BE DISCONNECTED AND SUPPLY MADE SAFE. COLUMN TO BE REMOVED TO TIP. BRACKET ARM AND LANTERN TO BE ASSESSED BY R.B.K. LIGHTING ENGINEER AND REMOVED TO STORE IF DEEMED SATISFACTORY.
- EXISTING STEEL ROAD LIGHTING COLUMN TO REMAIN. BRACKET ARM AND LANTERN TO BE ASSESSED BY R.B.K. LIGHTING ENGINEER AND REMOVED TO STORE IF DEEMED SATISFACTORY.
- EXISTING STEEL ROAD LIGHTING COLUMN, BRACKET ARM/ARMS AND LANTERN/LANTERNS TO BE ASSESSED BY R.B.K. LIGHTING ENGINEER AND REMOVED TO STORE IF DEEMED SATISFACTORY. COLUMN TO BE CUT JUST ABOVE HIGHEST SIGN, TOP SECTION REMOVED TO TIP AND REMAINING SECTION CAPPED OFF TO PREVENT WATER INGRESS. PLEASE LEAVE AS LITTLE POLE STICKING ABOVE THE TOP OF THE SIGN AS POSSIBLE TO A NEAT AND TIDY FINISH.
- BREAK OUT EXISTING BOLLARD (ANY TYPE) INCLUDING CONCRETE BASE AND DISPOSE TO CONTRACTOR'S LICENSED TIP OFF SITE.
- DISCONNECT ELECTRICAL SUPPLY AND MAKE SAFE. BREAK OUT EXISTING ILLUMINATED BOLLARD INCLUDING CONCRETE BASE AND DISPOSE TO CONTRACTOR'S LICENSED TIP OFF SITE.
- EXISTING BIN TO BE TAKEN UP AND STORED FOR RELOCATION. NEW POSITION TO BE AGREED WITH R.B.K.
- ROAD MARKINGS TO BE REMOVED BY PLANNING OR CONSTRUCTION OPERATIONS (NOTE 5).
- ROAD MARKINGS TO BE REMOVED BY R.B.K. APPROVED METHOD.
- EXISTING SIGN ASSEMBLY TO BE TAKEN DOWN (REFER TO NOTE 4).
- EXISTING TRAFFIC SIGNAL POLE TO BE REMOVED BY TRL.
- REFERENCE NUMBER OF EXISTING SIGN ASSEMBLY TO BE TAKEN DOWN (REFER TO NOTE 4).

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

CONSTRUCTION
UNIVERSITY AND COURT ARE IN THE VICINITY EXPECT HIGH AND VULNERABLE PEDESTRIAN FLOW

MAINTENANCE/CLEANING
UNIVERSITY AND COURT ARE IN THE VICINITY EXPECT HIGH AND VULNERABLE PEDESTRIAN FLOW

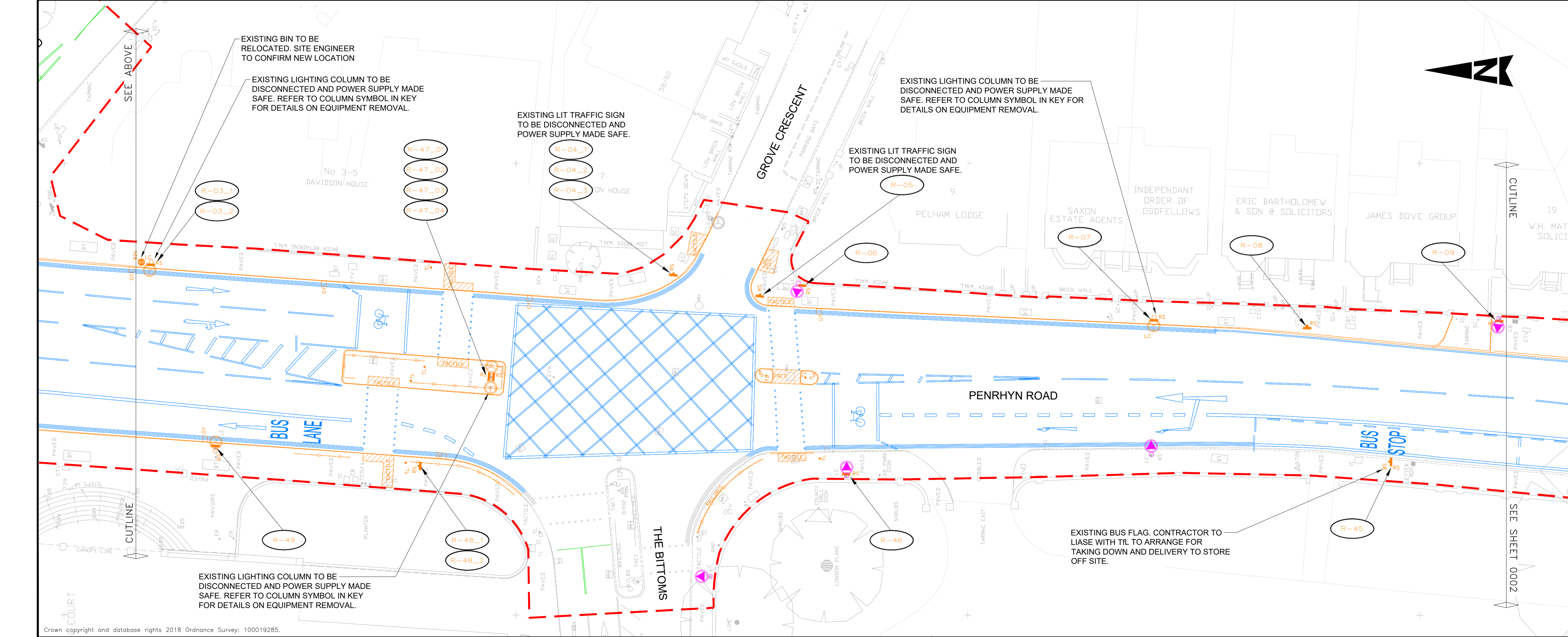
DECOMMISSIONING/DEMOLITION
UNIVERSITY AND COURT ARE IN THE VICINITY EXPECT HIGH AND VULNERABLE PEDESTRIAN FLOW

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

Rev.	Date	Description	By	Chkd	App'd
C4	23.11.18	CHANGES MADE TO COLUMNS IN CENTRAL ISLAND AT NORTHERN END OF THE SCHEME	PT	PE	CC
C3	25.10.18	CONSTRUCTION ISSUE	PT	PE	CC
C2	01.08.18	NOTES REVISED	PT	PE	CC
C1	23.07.18	DRAFT FOR COMMENT	PT	PE	CC

Drawing Status: **FIT FOR CONSTRUCTION APPROVAL** Suitability: **S4**

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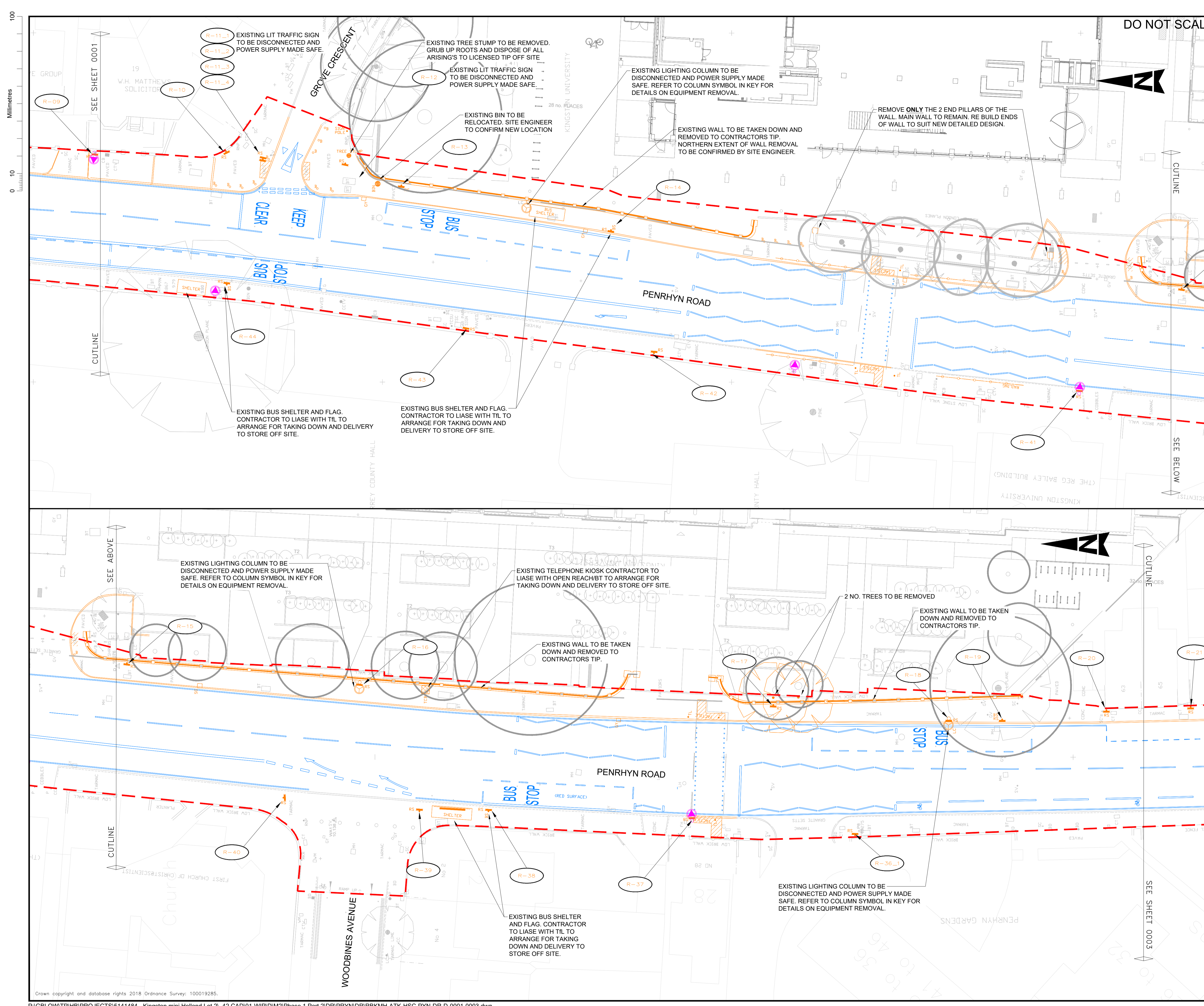
THE ROYAL BOROUGH OF KINGSTON UPON THAMES

Project Title: **KINGSTON MINI HOLLAND LOT 2**

Drawing Title: **PENRHYN ROAD DETAILED DESIGN SITE CLEARANCE SHEET 1 OF 3**

Scale	Designed	Drawn	Checked	Authorised
1:200	PT	PT	PE	CC
Original Size	Date	Date	Date	Date
A1	23.07.18	23.07.18	23.07.18	23.07.18

Drawing Number	HA PIN	Originator	Volume	Project Ref. No.	Revision
MHL2	-	ATK	-	HSC	-
PYN	-	DR	-	D	-
				0001	
					C4



DO NOT SCALE

- NOTES:**
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CHECK THE LOCATION OF THE EXISTING STATUTORY SERVICES PRIOR TO CONSTRUCTION. PARTICULAR ATTENTION IS DRAWN TO THE "NEW ROADS AND STREET WORKS ACT 1991".
 - REFER TO THE DRAWINGS REGISTER FOR THE FULL LIST OF DETAILED DESIGN DRAWINGS.
 - PRIOR TO SITE CLEARANCE OPERATIONS, EXISTING SURVEY CONTROL POINTS TO BE IDENTIFIED AND CHECKED AND USED TO ESTABLISH A NEW CONTROL NETWORK CLEAR OF THE WORKS FOOTPRINT AS REQUIRED.
 - REFER TO DRAWING RBKMH-ATK-HSN-PYN-DR-D-0004 (EXISTING SIGNS SCHEDULE) FOR DETAILS OF SIGNS AND ASSOCIATED POLES TO BE REMOVED FROM THE SITE ASIDE FOR RE-LOCATION, OR REMOVED TO STORE.
 - ROAD MARKINGS WITHIN THE WORKS AREA COLOURED BLUE WILL BE REMOVED DURING PLANING OR CONSTRUCTION OPERATIONS.

- SITE CLEARANCE KEY:**
- TAKE UP GULLY GRATING AND FRAME AND DISPOSE TO CONTRACTOR'S LICENSED TIP OFF SITE. REFER TO DRAINAGE DRAWINGS MHL2-ATK-HDC-DR-D-0001 TO 0003 FOR CONNECTION/DISCONNECTION DETAILS AND LEVEL ADJUSTMENTS REQUIRED.
 - BREAK OUT EXISTING KERB OR CHANNEL (ANY TYPE), INCLUDING CONCRETE BEDDING AND BACKING, AND ALONG WITH ALL OTHER ARISINGS DISPOSE TO CONTRACTOR'S LICENSED TIP OFF SITE.
 - TAKE UP EXISTING TACTILE PAVING SLABS (ANY TYPE), INCLUDING BEDDING, AND DISPOSE TO CONTRACTOR'S LICENSED TIP OFF SITE.
 - EXISTING STREET FURNITURE TO BE EITHER REMOVED FROM SITE OR RE-LOCATED - REFER TO DRAWING NOTES FOR DETAILS.
 - TAKE DOWN EXISTING FENCE OR GUARD RAIL (ANY TYPE) AND DISPOSE TO CONTRACTOR'S LICENSED TIP OFF SITE.
 - TAKE DOWN EXISTING WALL AND REMOVE TO CONTRACTOR'S LICENSED TIP OFF SITE.
 - EXISTING STEEL ROAD LIGHTING COLUMN TO BE DISCONNECTED AND SUPPLY MADE SAFE. COLUMN TO BE REMOVED TO TIP. BRACKET ARM AND LANTERN TO BE ASSESSED BY R.B.K. LIGHTING ENGINEER AND REMOVED TO STORE IF DEEMED SATISFACTORY.
 - EXISTING STEEL ROAD LIGHTING COLUMN TO REMAIN. BRACKET ARM AND LANTERN TO BE ASSESSED BY R.B.K. LIGHTING ENGINEER AND REMOVED TO STORE IF DEEMED SATISFACTORY.
 - EXISTING STEEL ROAD LIGHTING COLUMN, BRACKET ARM/ARMS AND LANTERN/LANTERNS TO BE ASSESSED BY R.B.K. LIGHTING ENGINEER AND REMOVED TO STORE IF DEEMED SATISFACTORY. COLUMN TO BE CUT JUST ABOVE HIGHEST SIGN, TOP SECTION REMOVED TO TIP AND REMAINING SECTION CAPPED OFF TO PREVENT WATER INGRESS. PLEASE LEAVE AS LITTLE AS POSSIBLE TO A NEAT AND TIDY FINISH.
 - BREAK OUT EXISTING BOLLARD (ANY TYPE) INCLUDING CONCRETE BASE AND DISPOSE TO CONTRACTOR'S LICENSED TIP OFF SITE.
 - DISCONNECT ELECTRICAL SUPPLY AND MAKE SAFE. BREAK OUT EXISTING ILLUMINATED BOLLARD INCLUDING CONCRETE BASE AND DISPOSE TO CONTRACTOR'S LICENSED TIP OFF SITE.
 - EXISTING BIN TO BE TAKEN UP AND STORED FOR RELOCATION. NEW POSITION TO BE AGREED WITH R.B.K.
 - ROAD MARKINGS TO BE REMOVED BY PLANING OR CONSTRUCTION OPERATIONS (NOTE 5).
 - ROAD MARKINGS TO BE REMOVED BY R.B.K. APPROVED METHOD.
 - EXISTING SIGN ASSEMBLY TO BE TAKEN DOWN (REFER TO NOTE 4).
 - EXISTING TRAFFIC SIGNAL POLE TO BE REMOVED BY TIL.
 - REFERENCE NUMBER OF EXISTING SIGN ASSEMBLY TO BE TAKEN DOWN (REFER TO NOTE 4).
 - SCHEME EXTENTS

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

CONSTRUCTION			
UNIVERSITY AND COURT ARE IN THE VICINITY EXPECT HIGH AND VULNERABLE PEDESTRIAN FLOW			
MAINTENANCE/CLEANING			
UNIVERSITY AND COURT ARE IN THE VICINITY EXPECT HIGH AND VULNERABLE PEDESTRIAN FLOW			
DECOMMISSIONING/DEMOLITION			
UNIVERSITY AND COURT ARE IN THE VICINITY EXPECT HIGH AND VULNERABLE PEDESTRIAN FLOW			
It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement			

Rev.	Date	Description	By	Chk'd	App'd
C4	23.11.18	AMENDMENTS MADE ON SHEET 1	PT	PE	CC
C3	25.10.18	CONSTRUCTION ISSUE	PT	PE	CC
C2	01.08.18	PSR INCLUDED IN REMOVAL	PT	PE	CC
C1	23.07.18	DRAFT FOR COMMENT	PT	PE	CC

Drawing Status: **FIT FOR CONSTRUCTION APPROVAL** Suitability: **S4**

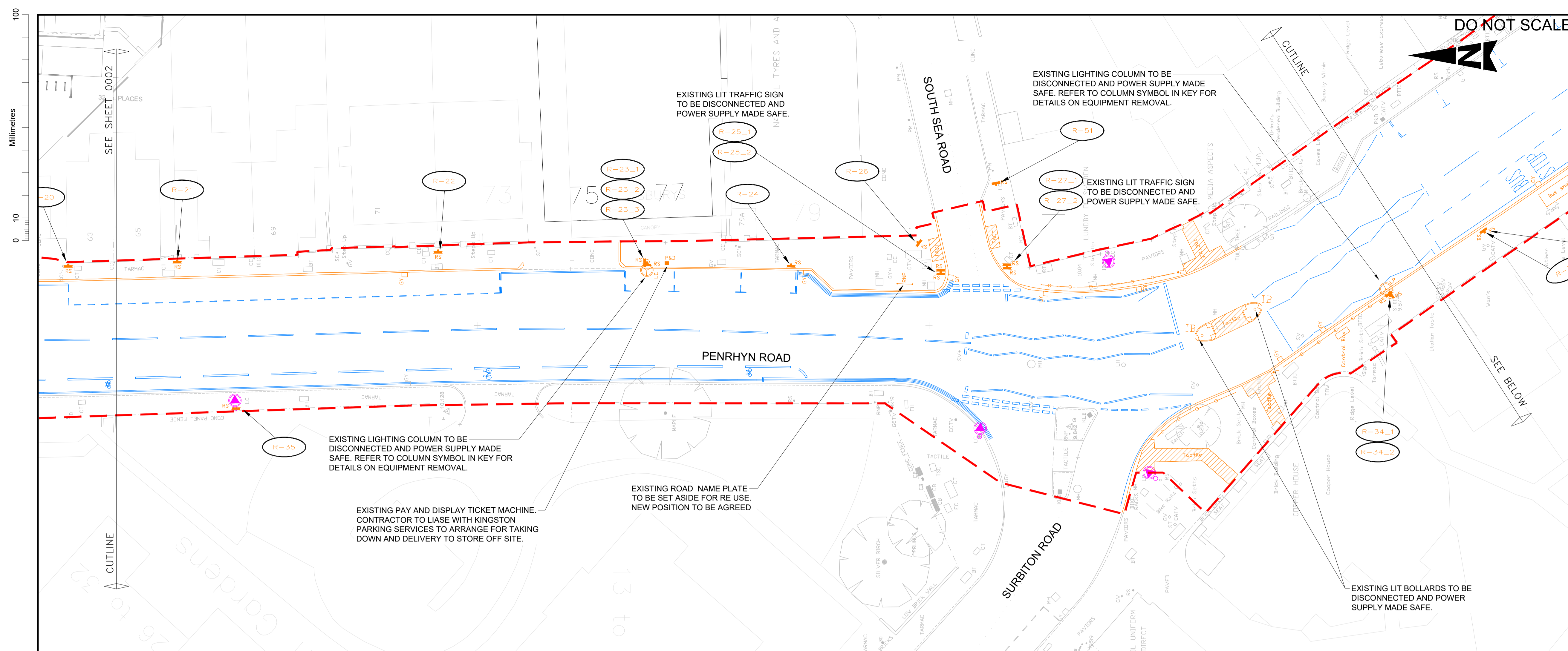
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Client: **KINGSTON MINI HOLLAND LOT 2**

Drawing Title: **PENRHYN ROAD DETAILED DESIGN SITE CLEARANCE SHEET 2 OF 3**

Scale	Designed	Drawn	Checked	Authorised
1:200	PT	PT	PE	CC
Original Size	Date	Date	Date	Date
A1	23.07.18	23.07.18	23.07.18	23.07.18
Drawing Number	Originator	Volume	Project Ref. No.	Revision
MHL2	ATK	HSC	5141484	
PYN	- DR - D - 0002			C4
Location	Type	Role	Number	



NOTES:

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CHECK THE LOCATION OF THE EXISTING STATUTORY SERVICES PRIOR TO CONSTRUCTION, PARTICULAR ATTENTION IS DRAWN TO THE "NEW ROADS AND STREET WORKS ACT 1991".
- REFER TO THE DRAWINGS REGISTER FOR THE FULL LIST OF DETAILED DESIGN DRAWINGS.
- PRIOR TO SITE CLEARANCE OPERATIONS, EXISTING SURVEY CONTROL POINTS TO BE IDENTIFIED AND CHECKED AND USED TO ESTABLISH A NEW CONTROL NETWORK CLEAR OF THE WORKS FOOTPRINT AS REQUIRED.
- REFER TO DRAWING RBKMH-ATK-HSN-PYN-DR-D-0004 (EXISTING SIGNS SCHEDULED) FOR DETAILS OF SIGNS AND ASSOCIATED POLES TO BE REMOVED FROM SITE, SET ASIDE FOR RE-LOCATION, OR REMOVED TO STORE.
- ROAD MARKINGS WITHIN THE WORKS AREA COLOURED BLUE WILL BE REMOVED DURING KEYWAY OR CONSTRUCTION OPERATIONS.

SITE CLEARANCE KEY:

- Orange hatched area: TAKE UP GULLY GRATING AND FRAME AND DISPOSE TO CONTRACTOR'S LICENSED TIP OFF SITE. REFER TO DRAINAGE DRAWINGS MHL2-ATK-HDG-DR-D-0001 TO 0003 FOR CONNECTION/DISCONNECTION DETAILS AND LEVEL ADJUSTMENTS REQUIRED.
- Red dashed line: BREAK OUT EXISTING KERB OR CHANNEL (ANY TYPE), INCLUDING CONCRETE BEDDING AND BACKING, AND ALONG WITH ALL OTHER ARISING DISPOSE TO CONTRACTOR'S LICENSED TIP OFF SITE.
- Blue hatched area: TAKE UP EXISTING TACTILE PAVING SLABS (ANY TYPE), INCLUDING BEDDING, AND DISPOSE TO CONTRACTOR'S LICENSED TIP OFF SITE.
- Green hatched area: TAKE DOWN EXISTING FENCE OR GUARD RAIL (ANY TYPE) AND DISPOSE TO CONTRACTOR'S LICENSED TIP OFF SITE.
- Orange line: TAKE DOWN EXISTING WALL AND REMOVE TO CONTRACTOR'S LICENSED TIP OFF SITE.
- Orange circle with 'X': EXISTING STEEL ROAD LIGHTING COLUMN TO BE DISCONNECTED AND SUPPLY MADE SAFE. COLUMN TO BE REMOVED TO TIP. BRACKET ARM AND LANTERN TO BE ASSESSED BY R.B.K. LIGHTING ENGINEER AND REMOVED TO STORE IF DEEMED SATISFACTORY.
- Purple circle with 'X': EXISTING STEEL ROAD LIGHTING COLUMN, COLUMN TO REMAIN. BRACKET ARM AND LANTERN TO BE ASSESSED BY R.B.K. LIGHTING ENGINEER AND REMOVED TO STORE IF DEEMED SATISFACTORY.
- Green circle with 'X': EXISTING STEEL ROAD LIGHTING COLUMN, BRACKET ARM/ARMS AND LANTERN/LANTERNS TO BE ASSESSED BY R.B.K. LIGHTING ENGINEER AND REMOVED TO STORE IF DEEMED SATISFACTORY. COLUMN TO BE CUT JUST ABOVE HIGHEST SIGN, TOP SECTION REMOVED TO TIP AND REMAINING SECTION CAPPED OFF TO PREVENT WATER INGRESS. PLEASE LEAVE AS LITTLE AS POSSIBLE ABOVE THE TOP OF THE SIGN AS POSSIBLE TO A NEAT AND TIDY FINISH.
- Blue circle with 'X': BREAK OUT EXISTING BOLLARD (ANY TYPE) INCLUDING CONCRETE BASE AND DISPOSE TO CONTRACTOR'S LICENSED TIP OFF SITE.
- Red circle with 'X': DISCONNECT ELECTRICAL SUPPLY AND MAKE SAFE. BREAK OUT EXISTING ILLUMINATED BOLLARD INCLUDING CONCRETE BASE AND DISPOSE TO CONTRACTOR'S LICENSED TIP OFF SITE.
- Orange circle with 'X': EXISTING BIN TO BE TAKEN UP AND STORED FOR RELOCATION. NEW POSITION TO BE AGREED WITH R.B.K.
- Blue line: ROAD MARKINGS TO BE REMOVED BY PLANING OR CONSTRUCTION OPERATIONS (NOTE 5).
- Green line: ROAD MARKINGS TO BE REMOVED BY R.B.K. APPROVED METHOD.
- Blue arrow: EXISTING SIGN ASSEMBLY TO BE TAKEN DOWN (REFER TO NOTE 4).
- Red arrow: EXISTING TRAFFIC SIGNAL POLE TO BE REMOVED BY TIL.
- Orange circle with 'R-XX': REFERENCE NUMBER OF EXISTING SIGN ASSEMBLY TO BE TAKEN DOWN (REFER TO NOTE 4).
- Red dashed line: SCHEME EXTENTS

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

CONSTRUCTION
UNIVERSITY AND COURT ARE IN THE VICINITY EXPECT HIGH AND VULNERABLE PEDESTRIAN FLOW

MAINTENANCE/CLEANING
UNIVERSITY AND COURT ARE IN THE VICINITY EXPECT HIGH AND VULNERABLE PEDESTRIAN FLOW

DECOMMISSIONING/DEMOLITION
UNIVERSITY AND COURT ARE IN THE VICINITY EXPECT HIGH AND VULNERABLE PEDESTRIAN FLOW

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

Rev.	Date	Description	By	Chkd	App'd
C4	23.11.18	AMENDMENTS MADE ON SHEET 1	PT	PE	CC
C3	25.10.18	CONSTRUCTION ISSUE	PT	PE	CC
C2	01.08.18	AMENDMENTS MADE ON SHEETS 1 AND 2	PT	PE	CC
C1	23.07.18	DRAFT FOR COMMENT	PT	PE	CC

Drawing Status: **FIT FOR CONSTRUCTION APPROVAL** Suitability: **S4**

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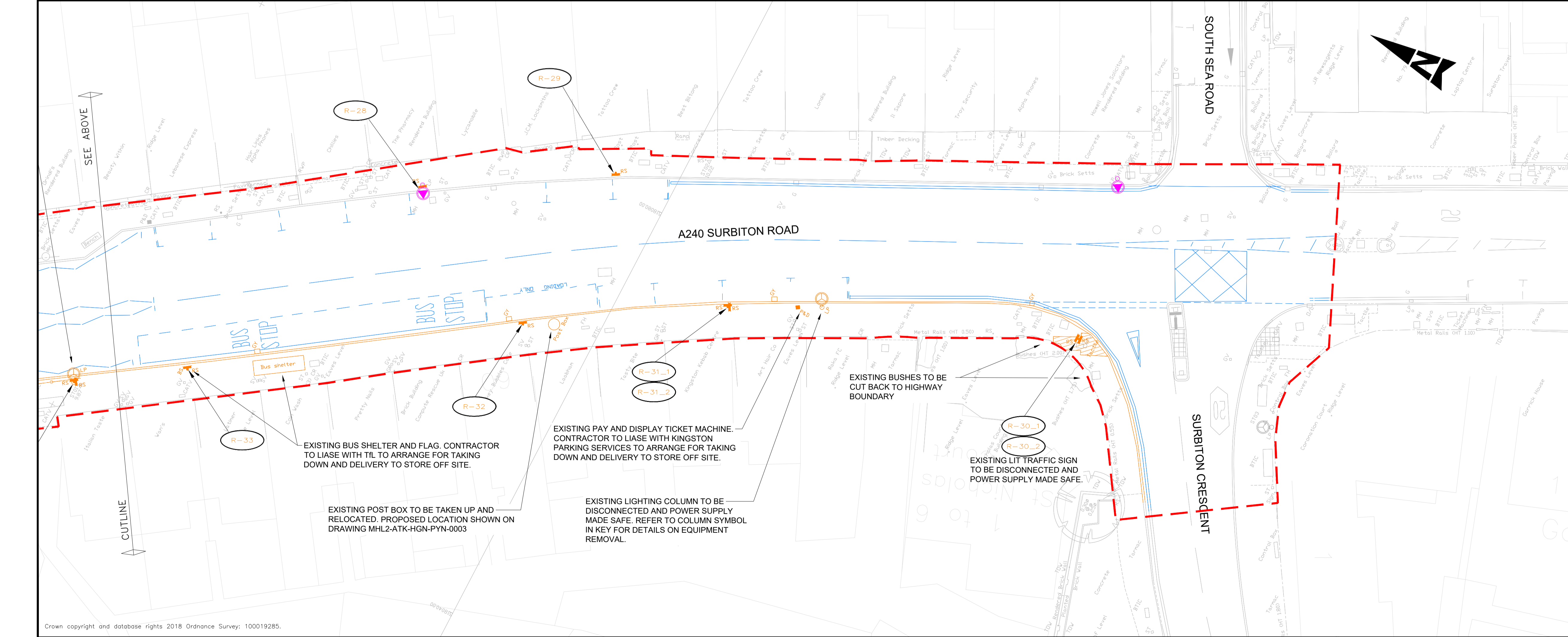
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Client: **KINGSTON MINI HOLLAND LOT 2**

Project Title: **PENRHYN ROAD DETAILED DESIGN SITE CLEARANCE SHEET 3 OF 3**

Scale	Designed	Drawn	Checked	Authorised
1:200	PT	PT	PE	CC
Original Size A1	Date 23.07.18	Date 23.07.18	Date 23.07.18	Date 23.07.18

Drawing Number	Originator	Volume	Project Ref. No.
MHL2	ATK	HSC	5141484
PYN	DR - D	0003	Revision C4



CONSTRUCTION
UNIVERSITY AND COURT ARE IN THE VICINITY EXPECT HIGH AND VULNERABLE PEDESTRIAN FLOW

MAINTENANCE/CLEANING
UNIVERSITY AND COURT ARE IN THE VICINITY EXPECT HIGH AND VULNERABLE PEDESTRIAN FLOW

DECOMMISSIONING/DEMOLITION
UNIVERSITY AND COURT ARE IN THE VICINITY EXPECT HIGH AND VULNERABLE PEDESTRIAN FLOW

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

Rev.	Date	Description	By	Chkd	App'd
C4	23.11.18	AMENDMENTS MADE ON SHEET 1	PT	PE	CC
C3	25.10.18	CONSTRUCTION ISSUE	PT	PE	CC
C2	01.08.18	AMENDMENTS MADE ON SHEETS 1 AND 2	PT	PE	CC
C1	23.07.18	DRAFT FOR COMMENT	PT	PE	CC

Drawing Status: **FIT FOR CONSTRUCTION APPROVAL** Suitability: **S4**

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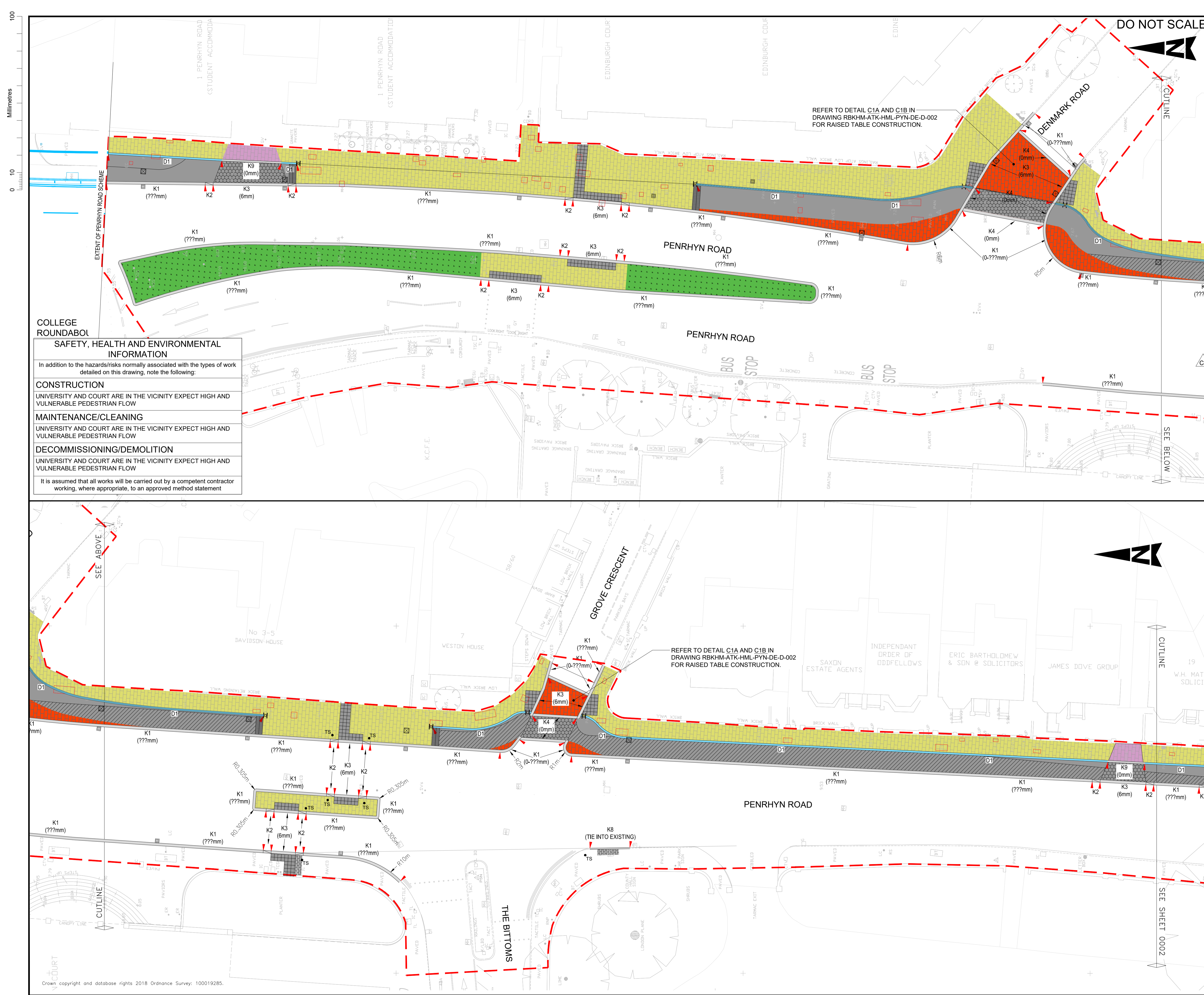
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Client: **KINGSTON MINI HOLLAND LOT 2**

Project Title: **PENRHYN ROAD DETAILED DESIGN SITE CLEARANCE SHEET 3 OF 3**

Scale	Designed	Drawn	Checked	Authorised
1:200	PT	PT	PE	CC
Original Size A1	Date 23.07.18	Date 23.07.18	Date 23.07.18	Date 23.07.18

Drawing Number	Originator	Volume	Project Ref. No.
MHL2	ATK	HSC	5141484
PYN	DR - D	0003	Revision C4



COLLEGE ROUNDABOUT SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

CONSTRUCTION
UNIVERSITY AND COURT ARE IN THE VICINITY EXPECT HIGH AND VULNERABLE PEDESTRIAN FLOW

MAINTENANCE/CLEANING
UNIVERSITY AND COURT ARE IN THE VICINITY EXPECT HIGH AND VULNERABLE PEDESTRIAN FLOW

DECOMMISSIONING/DEMOLITION
UNIVERSITY AND COURT ARE IN THE VICINITY EXPECT HIGH AND VULNERABLE PEDESTRIAN FLOW

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

- NOTES:**
- IT IS THE CONTRACTORS RESPONSIBILITY TO CHECK THE LOCATION OF THE EXISTING STATUTORY SERVICES PRIOR TO CONSTRUCTION. PARTICULAR ATTENTION IS DRAWN TO THE "NEW ROADS AND STREET WORKS ACT 1991"
 - REFER TO THE DRAWINGS REGISTER FOR THE FULL LIST OF DETAILED DRAWINGS.
 - ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
 - ALL KERBS, SURFACING AND NEW FOOTWAY CONSTRUCTION IS TO BE SET OUT AND LAID TO FINISHED SURFACE LEVELS GIVEN IN THE 3D CAD FILE AND STRING POINTS PROVIDED.
 - REFER TO DRAWINGS RBKMH-HML-PYN-DE-D-0001 & 0002 FOR FOOTWAY CONSTRUCTION DETAILS AND REVISED KERB TYPES DESCRIBED IN THE KERB KEY.
 - UTILITY COVERS TO BE ADJUSTED TO SUIT REVISED LEVELS.
- GENERAL KEY:**
- NEW CONCRETE DEMARCATION PAVING - REFER TO KERB KEY
 - NEW EDGING KERB 50x150mm (PCC) - REFER TO KERB KEY
 - NEW KERB (SILVER GREY GRANITE) - REFER TO KERB KEY
 - NEW MARSHALLS SINUSOIDAL KERB/RAMP SYSTEM (PCC)
 - NEW HIGHWAY GULLY, CHUTE GULLY OR FOOTWAY GULLY
 - NEW SIGN FACE AND POST ARRANGEMENT
 - NEW MINI ENSIGN BOLLARD
 - NEW MANHOLE COVER RAISED/LOWERED WITH NEW INFILL COVER
 - SCHEME BOUNDARY
 - PROPOSED FLAG
 - PROPOSED BUS SHELTER
 - PROPOSED STAINLESS STEEL DEMARCATION STUD ON HIGHWAY BOUNDARY
- SURFACING KEY:**
- FOOTWAY TYPE F1 (DETAIL F1)
NEW FULL DEPTH ASPHALT CONCRETE CYCLEWAY OR FOOTWAY.
 - FOOTWAY TYPE F2A (DETAIL F2A)
ASPHALT CONCRETE CYCLEWAY OR FOOTWAY LAID ON EXISTING FOOTWAY BASE
 - FOOTWAY TYPE F2B (DETAIL F2B)
ASPHALT CONCRETE CYCLEWAY OR FOOTWAY LAID ON EXISTING CARRIAGEWAY CONSTRUCTION.
 - VEHICLE CROSSOVER (LoHc DETAIL 1100.08 & 1100.09)
ASPHALT CONCRETE CYCLEWAY OR FOOTWAY AT VEHICLE CROSSOVER. REFER TO LoHc DETAIL 1100.09 FOR CONSTRUCTION DETAILS.
 - FOOTWAY TYPE F3 (DETAIL F3)
400x400x65mm CONCRETE TACTILE PAVING (BLISTER OR TRAMLIN, CHARCOAL OR BUFF AS SHOWN ON GENERAL ARRANGEMENT LAYOUT)
 - FOOTWAY TYPE F4 (DETAIL F4)
NEW FULL DEPTH ASP PAVING FLAGS, 600/750/900 x 65mm
 - FOOTWAY TYPE F5 (DETAIL F5)
NEW FULL DEPTH FIBRE RE-INFORCED ASP PAVING FLAGS 450/600 x 63mm. BEDDING AND JOINTS TO BE "STENTECH"
 - FOOTWAY TYPE C1B AND F8 (DETAIL C1B AND F8)
NEW FULL DEPTH GRANITE SETTS 200x200x100mm 4 COLOUR GREY MIX. REFER TO DETAIL F8 FOR SETTS IN THE FOOTWAY. SETTS LAID ON RAISED TABLE TO BE TO DETAIL C1B (BEDDING AND JOINTS TO BE "STENTECH")
 - SOFT LANDSCAPING
EXCAVATE EXISTING MATERIAL TO A DEPTH OF 600MM BELOW EXISTING GROUND LEVEL AND REMOVE TO TIP. INFILL WITH 600MM OF TOPSOIL READY FOR LANDSCAPING WHICH WILL BE CARRIED OUT AT A LATER DATE
 - 2 ROWS OF 100x100x100mm GRANITE COBBLES. REFER TO DETAIL F9 ON DRAWING RBKMH-HML-PYN-DE-D-0002.
- KERB AND CHANNEL KEY:**
- K1 - GRANITE KERB (SILVER GREY) 300x200mm (FOR UPSTAND SEE BRACKETED VALUE) TO DETAIL K1
 - K2 - GRANITE KERB (SILVER GREY) 300x200mm LAID AS A DROPPER KERB (SEE DETAIL K1 FOR CONCRETE BEDDING/HALUNCHING)
 - K3 - GRANITE KERB (SILVER GREY) 300x200mm (FOR UPSTAND SEE BRACKETED VALUE) LAID AS DROPPED KERB TO DETAIL K3
 - K4 - GRANITE KERB (SILVER GREY) 300x200mm LAID AS FLUSH KERB IN FOOTWAYS AND RAISED TABLES TO DETAIL K4
 - K5 - GRANITE KERB (SILVER GREY) 150x300mm (FOR UPSTAND SEE BRACKETED VALUE) LAID AS DROPPED KERB TO DETAIL K5
 - K6 - SINUSOIDAL KERB TO DETAIL K6
 - K7 - GRANITE KERB (SILVER GREY) 150x300mm LAID AS A DROPPER KERB (SEE DETAIL K5 FOR CONCRETE BEDDING/HALUNCHING)
 - K8 - GRANITE KERB (SILVER GREY) 150x300mm (FOR UPSTAND SEE BRACKETED VALUE) TO DETAIL K8
 - K9 - GRANITE KERB (SILVER GREY) 200x300mm LAID AS FLUSH KERB IN FOOTWAYS AND RAISED TABLES TO DETAIL K9
 - EF - PCC EDGING TYPE EF 50x150mm LAID FLUSH IN FOOTWAYS TO DETAIL EF
 - D1 - PCC CYCLEWAY DEMARCATION BLOCKS 200x200x80mm LAID ADJACENT TO CYCLEWAY TO DETAIL D1
 - INTERFACE BETWEEN KERB AND EDGING TYPES

Rev.	Date	Description	By	Chkd	App'd
C4	23.11.18	PAVING SIZES ADDED	PT	PE	CC
C3	25.10.18	CONSTRUCTION ISSUE	PT	PE	CC
C2	01.08.18	REVISION TO ISLAND KERBING AND FOOTWAY SHARED USE AREA	PT	PE	CC
C1	23.07.18	DRAFT FOR COMMENT	PT	PE	CC

Rev.	Date	Description	By	Chkd	App'd
C4	23.11.18	PAVING SIZES ADDED	PT	PE	CC
C3	25.10.18	CONSTRUCTION ISSUE	PT	PE	CC
C2	01.08.18	REVISION TO ISLAND KERBING AND FOOTWAY SHARED USE AREA	PT	PE	CC
C1	23.07.18	DRAFT FOR COMMENT	PT	PE	CC

Drawing Status: **FIT FOR CONSTRUCTION APPROVAL**

Suitability: **S4**

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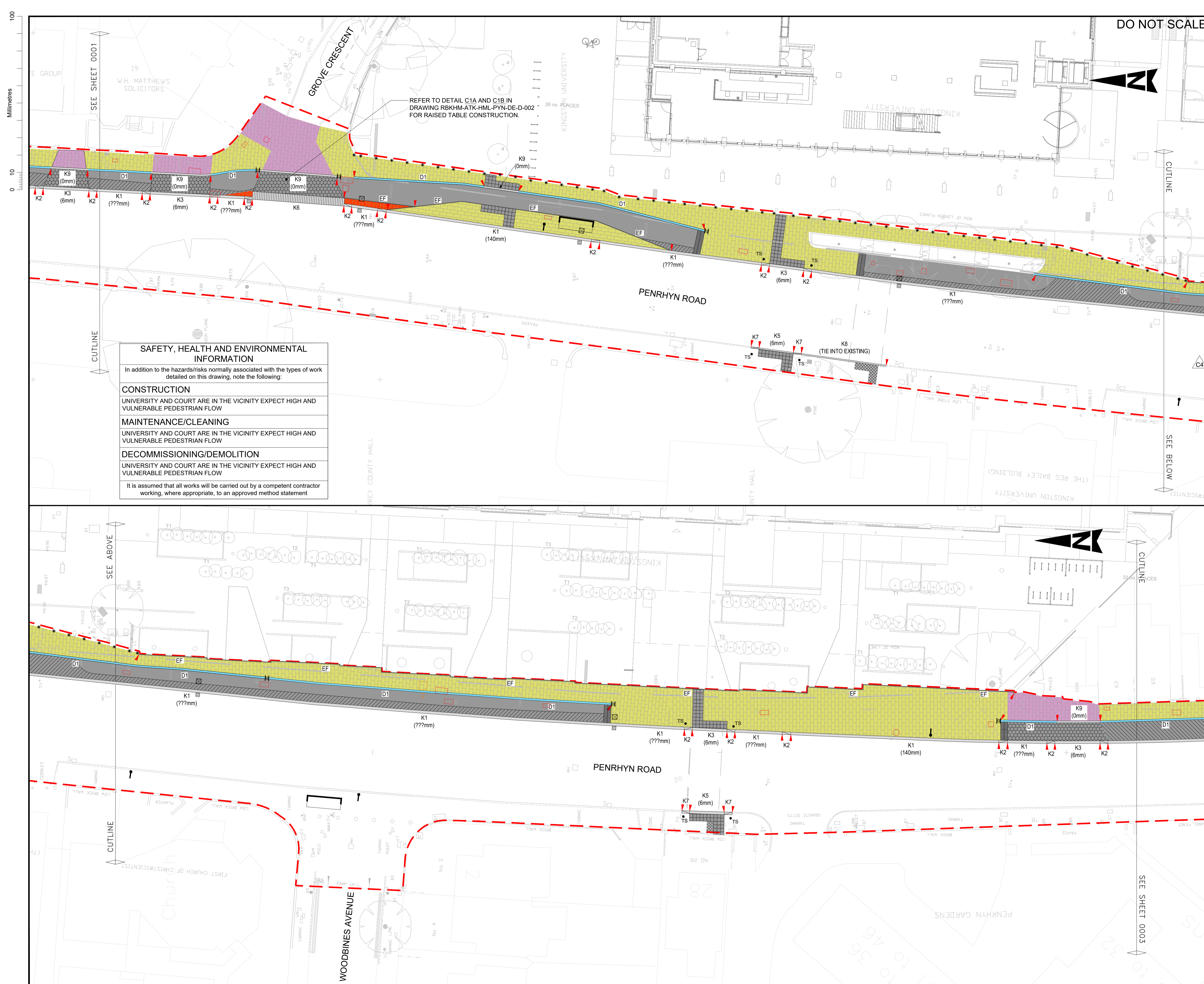
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Client: **KINGSTON MINI HOLLAND LOT 2**

Project Title: **PENRHYN ROAD DETAILED DESIGN KERBING, FOOTWAYS AND PAVED AREAS SHEET 1 OF 3**

Scale	Designed	Drawn	Checked	Authorised
1:200	PT	PT	PE	CC
Original Size	Date	Date	Date	Date
A1	23.07.18	23.07.18	23.07.18	23.07.18

Drawing Number	Originator	Volume	Project Ref. No.
MHL2	ATK	HKF	5141484
PYN	DR - D	0001	Revision
Location	Type	Role	Number
			C4



DO NOT SCALE

- NOTES:**
- IT IS THE CONTRACTORS RESPONSIBILITY TO CHECK THE LOCATION OF THE EXISTING STATUTORY SERVICES PRIOR TO CONSTRUCTION. PARTICULAR ATTENTION IS DRAWN TO THE "NEW ROADS AND STREET WORKS" ACT 1991.
 - REFER TO THE DRAWINGS REGISTER FOR THE FULL LIST OF DETAILED DRAWINGS.
 - ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
 - ALL KERBS, SURFACING AND NEW FOOTWAY CONSTRUCTION IS TO BE SET OUT AND LAID TO FINISHED SURFACE LEVELS GIVEN IN THE 3D CAD FILE AND STRING POINTS PROVIDED.
 - REFER TO DRAWINGS RBKMH-HML-PYN-DE-D-0001 & 0002 FOR FOOTWAY CONSTRUCTION DETAILS AND DETAILS OF KERB TYPES DESCRIBED IN THE KERB KEY.
 - UTILITY COVERS TO BE ADJUSTED TO SUIT REVISED FOOTWAY LEVELS.

- GENERAL KEY:**
- NEW CONCRETE DEMARCATION PAVING - REFER TO KERB KEY
 - NEW EDGING KERB 50x150mm (PCC) - REFER TO KERB KEY
 - NEW KERB (SILVER GREY GRANITE) - REFER TO KERB KEY
 - NEW MARSHALLS SINUSOIDAL KERB/RAMP SYSTEM (PCC)
 - NEW HIGH GULLY, CHUTE GULLY OR FOOTWAY GULLY
 - NEW SIGN FACE AND POST ARRANGEMENT
 - NEW MINI ENSIGN BOLLARD
 - NEW MANHOLE COVER RAISED/LOWERED WITH NEW INFILL COVER
 - SCHEME BOUNDARY
 - PROPOSED FLAG
 - PROPOSED BUS SHELTER
 - PROPOSED STAINLESS STEEL DEMARCATION STUD ON HIGHWAY BOUNDARY

- SURFACING KEY:**
- FOOTWAY TYPE F1 (DETAIL F1)
 - NEW FULL DEPTH ASPHALT CONCRETE CYCLEWAY OR FOOTWAY.
 - FOOTWAY TYPE F2A (DETAIL F2A)
 - ASPHALT CONCRETE CYCLEWAY OR FOOTWAY LAID ON EXISTING FOOTWAY BASE
 - FOOTWAY TYPE F2B (DETAIL F2B)
 - ASPHALT CONCRETE CYCLEWAY OR FOOTWAY LAID ON EXISTING CARRIAGEWAY CONSTRUCTION.
 - VEHICLE CROSSOVER (LoHc DETAIL 1100.08 & 1100.09)
 - ASPHALT CONCRETE CYCLEWAY OR FOOTWAY AT VEHICLE CROSSOVER. REFER TO LoHc DETAIL 1100.09 FOR CONSTRUCTION DETAILS.
 - FOOTWAY TYPE F3 (DETAIL F3)
 - 400x400x65mm CONCRETE TACTILE PAVING (BLISTER OR TRAMLIN, CHARCOAL OR BUFF AS SHOWN ON GENERAL ARRANGEMENT LAYOUT)
 - FOOTWAY TYPE F4 (DETAIL F4)
 - NEW FULL DEPTH ASP PAVING FLAGS, 600/750/900 x 65mm
 - FOOTWAY TYPE F5 (DETAIL F5)
 - NEW FULL DEPTH FIBRE RE-INFORCED ASP PAVING FLAGS 450/600 x 63mm. BEDDING AND JOINTS TO BE "STENTECH"
 - FOOTWAY TYPE C1B AND F8 (DETAIL C1B AND F8)
 - NEW FULL DEPTH GRANITE SETTS 200x200x100mm 4 COLOUR GREY MIX. REFER TO DETAIL F8 FOR SETTS IN THE FOOTWAY. SETTS LAID ON RAISED TABLE TO BE TO DETAIL C1B (BEDDING AND JOINTS TO BE "STENTECH")
 - SOFT LANDSCAPING
 - EXCAVATE EXISTING MATERIAL TO A DEPTH OF 600MM BELOW EXISTING GROUND LEVEL AND REMOVE TO TIP. INFILL WITH 600MM OF TOPSOIL READY FOR LANDSCAPING WHICH WILL BE CARRIED OUT AT A LATER DATE
 - 2 ROWS OF 100x100x100mm GRANITE COBBLES. REFER TO DETAIL F9 ON DRAWING RBKMH-HML-PYN-DE-D-0002.

- KERB AND CHANNEL KEY:**
- K1 - GRANITE KERB (SILVER GREY) 300x200mm (FOR UPSTAND SEE BRACKETED VALUE) TO DETAIL K1
 - K2 - GRANITE KERB (SILVER GREY) 300x200mm LAID AS A DROPPER KERB (SEE DETAIL K1 FOR CONCRETE BEDDING/HAUNCHING)
 - K3 - GRANITE KERB (SILVER GREY) 300x200mm (FOR UPSTAND SEE BRACKETED VALUE) LAID AS DROPPED KERB TO DETAIL K3
 - K4 - GRANITE KERB (SILVER GREY) 300x200mm LAID AS FLUSH KERB IN FOOTWAYS AND RAISED TABLES TO DETAIL K4
 - K5 - GRANITE KERB (SILVER GREY) 150x300mm (FOR UPSTAND SEE BRACKETED VALUE) LAID AS DROPPED KERB TO DETAIL K5
 - K6 - SINUSOIDAL KERB TO DETAIL K6
 - K7 - GRANITE KERB (SILVER GREY) 150x300mm LAID AS A DROPPER KERB (SEE DETAIL K5 FOR CONCRETE BEDDING/HAUNCHING)
 - K8 - GRANITE KERB (SILVER GREY) 150x300mm (FOR UPSTAND SEE BRACKETED VALUE) TO DETAIL K8
 - K9 - GRANITE KERB (SILVER GREY) 200x300mm LAID AS FLUSH KERB IN FOOTWAYS AND RAISED TABLES TO DETAIL K9
 - EF - PCC EDGING TYPE EF 50x150mm LAID FLUSH IN FOOTWAYS TO DETAIL EF
 - D1 - PCC CYCLEWAY DEMARCATION BLOCKS 200x200x80mm LAID ADJACENT TO CYCLEWAY TO DETAIL D1
 - INTERFACE BETWEEN KERB AND EDGING TYPES

C4	23.11.18	PAVING SIZES ADDED	PT	PE	CC
C3	25.10.18	CONSTRUCTION ISSUE	PT	PE	CC
C2	01.08.18	KERB LINE AMENDED	PT	PE	CC
C1	23.07.18	DRAFT FOR COMMENT	PT	PE	CC
Rev.	Date	Description	By	Chk'd	App'd

Drawing Status: **FIT FOR CONSTRUCTION APPROVAL** Suitability: **S4**

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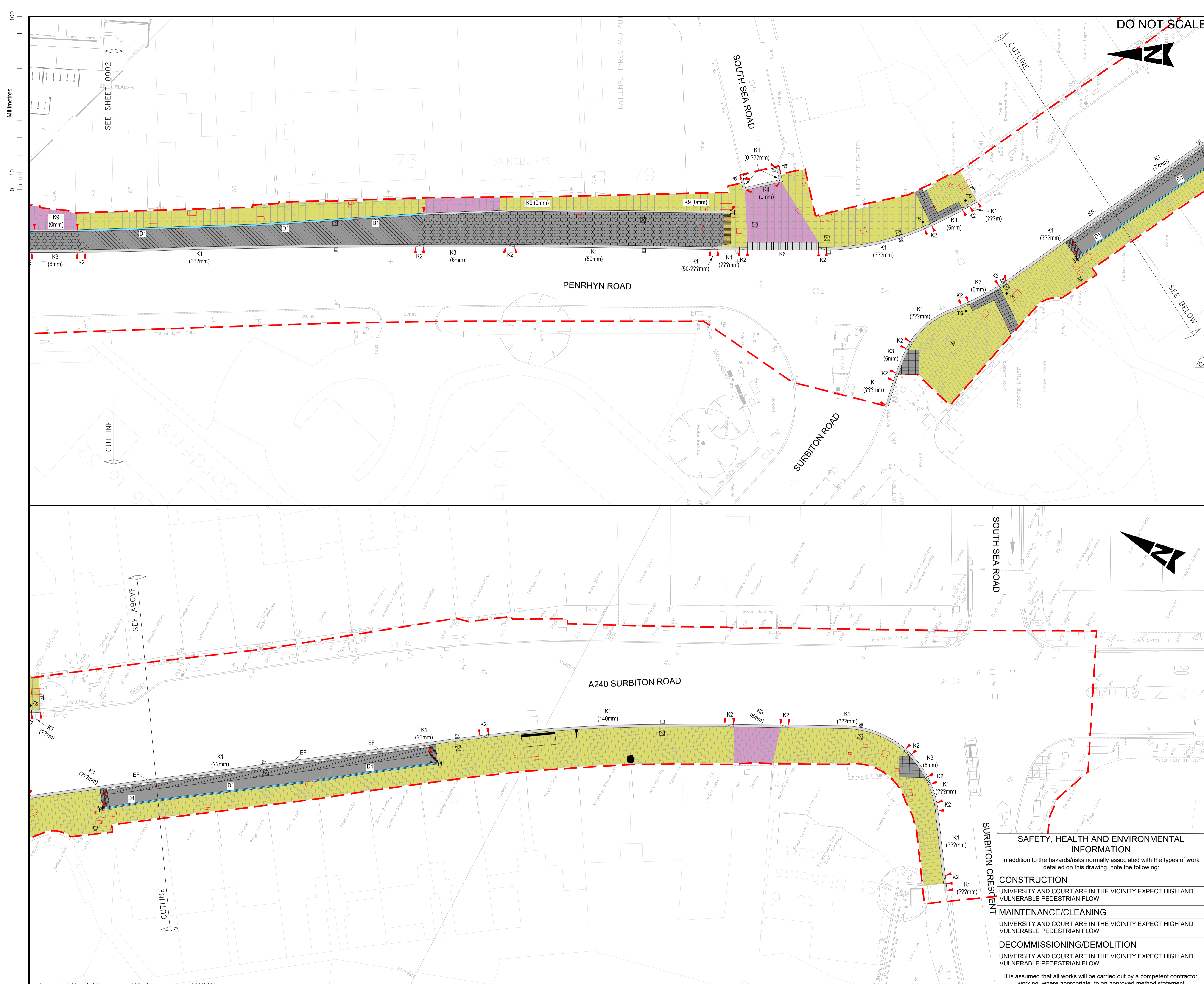
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Project Title: **KINGSTON MINI HOLLAND LOT 2**

Drawing Title: **PENRHYN ROAD
KERBING, FOOTWAYS AND PAVED AREAS
SHEET 2 OF 3**

Scale	1:200	Designed	PT	Drawn	PT	Checked	PE	Authorised	CC
Original Size	A1	Date	23.07.18	Date	23.07.18	Date	23.07.18	Date	23.07.18
Drawing Number	MHL2	Originator	ATK	Volume	HKF	Project Ref. No.	5141484		
HA PIN	PYN	- DR - D - 0002	Revision		C4				
Location	Type	Role	Number						



DO NOT SCALE

- NOTES:**
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CHECK THE LOCATION OF THE EXISTING STATUTORY SERVICES PRIOR TO CONSTRUCTION. PARTICULAR ATTENTION IS DRAWN TO THE "NEW ROADS AND STREET WORKS ACT 1991".
 - REFER TO THE DRAWINGS REGISTER FOR THE FULL LIST OF DETAILED DRAWINGS.
 - ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
 - ALL KERBS, SURFACING AND NEW FOOTWAY CONSTRUCTION IS TO BE SET OUT AND LAID TO FINISHED SURFACE LEVELS GIVEN IN THE 3D CAD FILE AND STRING POINTS PROVIDED.
 - REFER TO DRAWINGS RBKM-HML-PYN-DE-D-0001 & 0002 FOR FOOTWAY CONSTRUCTION DETAILS AND DETAILS OF KERB TYPES DESCRIBED IN THE KERB KEY.
 - UTILITY COVERS TO BE ADJUSTED TO SUIT REVISED FOOTWAY LEVELS.

- GENERAL KEY:**
- NEW CONCRETE DEMARCATION PAVING - REFER TO KERB KEY
 - NEW EDGING KERB 50x150mm (PCC) - REFER TO KERB KEY
 - NEW KERB (SILVER GREY GRANITE) - REFER TO KERB KEY
 - NEW MARSHALLS SINUSOIDAL KERB/RAMP SYSTEM (PCC)
 - NEW HIGHWAY GULLY, CHUTE GULLY OR FOOTWAY GULLY
 - NEW SIGN FACE AND POST ARRANGEMENT
 - NEW MINI ENSIGN BOLLARD
 - NEW MANHOLE COVER RAISED/LOWERED WITH NEW INFILL COVER
 - SCHEME BOUNDARY
 - PROPOSED FLAG
 - PROPOSED BUS SHELTER
 - PROPOSED STAINLESS STEEL DEMARCATION STUD ON HIGHWAY BOUNDARY

- SURFACING KEY:**
- FOOTWAY TYPE F1 (DETAIL F1) NEW FULL DEPTH ASPHALT CONCRETE CYCLEWAY OR FOOTWAY.
 - FOOTWAY TYPE F2A (DETAIL F2A) ASPHALT CONCRETE CYCLEWAY OR FOOTWAY LAID ON EXISTING FOOTWAY BASE.
 - FOOTWAY TYPE F2B (DETAIL F2B) ASPHALT CONCRETE CYCLEWAY OR FOOTWAY LAID ON EXISTING CARRIAGEWAY CONSTRUCTION.
 - VEHICLE CROSSOVER (LoHc DETAIL 1100.08 & 1100.09) ASPHALT CONCRETE CYCLEWAY OR FOOTWAY AT VEHICLE CROSSOVER. REFER TO LoHc DETAIL 1100.09 FOR CONSTRUCTION DETAILS.
 - FOOTWAY TYPE F3 (DETAIL F3) 400x400x65mm CONCRETE TACTILE PAVING (BLISTER OR TRAMLIN, CHARCOAL OR BUFF AS SHOWN ON GENERAL ARRANGEMENT LAYOUT)
 - FOOTWAY TYPE F4 (DETAIL F4) NEW FULL DEPTH ASP PAVING FLAGS, 600/750/900 x 65mm
 - FOOTWAY TYPE F5 (DETAIL F5) NEW FULL DEPTH FIBRE RE-INFORCED ASP PAVING FLAGS 450/600 x 63mm. BEDDING AND JOINTS TO BE "STEINTECH"
 - FOOTWAY TYPE C1B AND F8 (DETAIL C1B AND F8) NEW FULL DEPTH GRANITE SETTS 200x200x100mm 4 COLOUR GREY MIX. REFER TO DETAIL F8 FOR SETTS IN THE FOOTWAY. SETTS LAID ON RAISED TABLE TO BE TO DETAIL C1B (BEDDING AND JOINTS TO BE "STEINTECH")

- SOFT LANDSCAPING:**
- EXCAVATE EXISTING MATERIAL TO A DEPTH OF 600MM BELOW EXISTING GROUND LEVEL AND REMOVE TO TIP. INFILL WITH 600MM OF TOPSOIL READY FOR LANDSCAPING WHICH WILL BE CARRIED OUT AT A LATER DATE
 - 2 ROWS OF 100x100x100mm GRANITE COBBLES. REFER TO DETAIL F9 ON DRAWING RBKM-HML-PYN-DE-D-0002.

- KERB AND CHANNEL KEY:**
- K1 - GRANITE KERB (SILVER GREY) 300x200mm (FOR UPSTAND SEE BRACKETED VALUE) TO DETAIL K1
 - K2 - GRANITE KERB (SILVER GREY) 300x200mm LAID AS A DROPPER KERB (SEE DETAIL K1 FOR CONCRETE BEDDING/HALUNCHING)
 - K3 - GRANITE KERB (SILVER GREY) 300x200mm (FOR UPSTAND SEE BRACKETED VALUE) LAID AS DROPPED KERB TO DETAIL K3
 - K4 - GRANITE KERB (SILVER GREY) 300x200mm LAID AS FLUSH KERB IN FOOTWAYS AND RAISED TABLES TO DETAIL K4
 - K5 - GRANITE KERB (SILVER GREY) 150x300mm (FOR UPSTAND SEE BRACKETED VALUE) LAID AS DROPPED KERB TO DETAIL K5
 - K6 - SINUSOIDAL KERB TO DETAIL K6
 - K7 - GRANITE KERB (SILVER GREY) 150x300mm LAID AS A DROPPER KERB (SEE DETAIL K5 FOR CONCRETE BEDDING/HALUNCHING)
 - K8 - GRANITE KERB (SILVER GREY) 150x300mm (FOR UPSTAND SEE BRACKETED VALUE) TO DETAIL K8
 - K9 - GRANITE KERB (SILVER GREY) 200x300mm LAID AS FLUSH KERB IN FOOTWAYS AND RAISED TABLES TO DETAIL K9
 - EF - PCC EDGING TYPE EF 50x150mm LAID FLUSH IN FOOTWAYS TO DETAIL EF
 - D1 - PCC CYCLEWAY DEMARCATION BLOCKS 200x200x80mm LAID ADJACENT TO CYCLEWAY TO DETAIL D1
 - Interface between kerb and edging types

Rev.	Date	Description	By	Chkd	App'd
C4	23.11.18	PAVING SIZES ADDED	PT	PE	CC
C3	25.10.18	CONSTRUCTION ISSUE	PT	PE	CC
C2	01.08.18	AMENDMENTS MADE ON SHEETS 1 AND 2	PT	PE	CC
C1	23.07.18	DRAFT FOR COMMENT	PT	PE	CC

Drawing Status: **FIT FOR CONSTRUCTION APPROVAL** Suitability: **S4**

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Project Title: **KINGSTON MINI HOLLAND LOT 2**

Drawing Title: **PENRHYN ROAD
 DETAILED DESIGN
 KERBING, FOOTWAYS AND PAVED AREAS
 SHEET 3 OF 3**

Scale	Designed	Drawn	Checked	Authorised
1:200	PT	PT	PE	CC
Original Size	Date	Date	Date	Date
A1	23.07.18	23.07.18	23.07.18	23.07.18
Drawing Number	Originator	Volume	Project Ref. No.	
MHL2	- ATK	- HKF	5141484	
PYN	- DR - D	- 0003	Revision	
Location	Type	Role	Number	
			C4	

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION
 In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

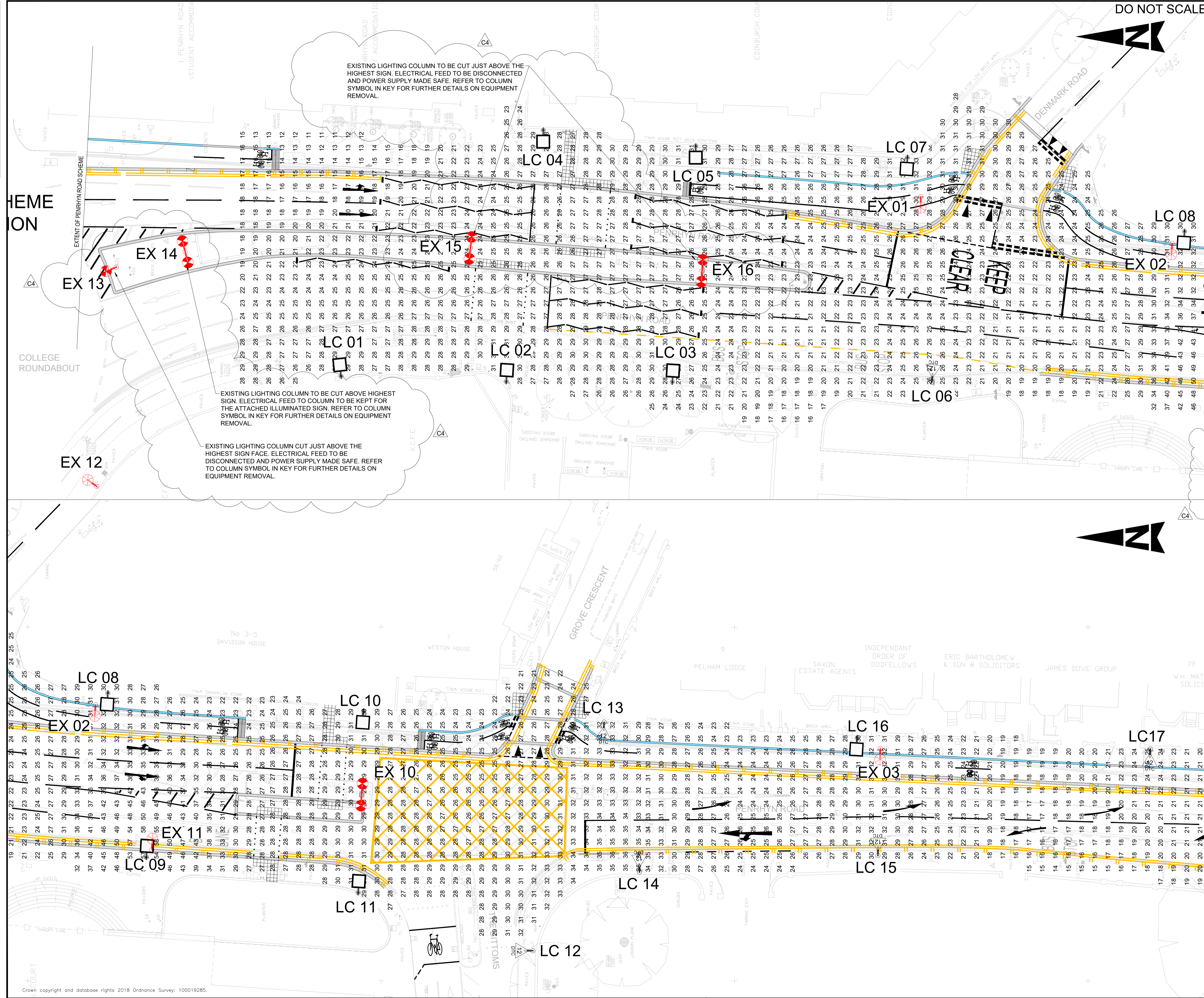
CONSTRUCTION
 UNIVERSITY AND COURT ARE IN THE VICINITY EXPECT HIGH AND VULNERABLE PEDESTRIAN FLOW

MAINTENANCE/CLEANING
 UNIVERSITY AND COURT ARE IN THE VICINITY EXPECT HIGH AND VULNERABLE PEDESTRIAN FLOW

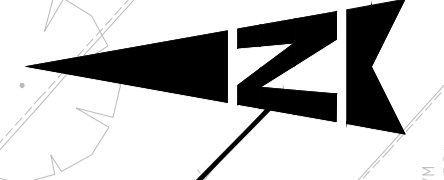
DECOMMISSIONING/DEMOLITION
 UNIVERSITY AND COURT ARE IN THE VICINITY EXPECT HIGH AND VULNERABLE PEDESTRIAN FLOW

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

0 10 100
Millimetres



DO NOT SCALE



SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

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- MAINTENANCE/CLEANING**
UNIVERSITY AND COURT ARE IN THE VICINITY EXPECT HIGH AND VULNERABLE PEDESTRIAN FLOW
- DECOMMISSIONING/DEMOLITION**
UNIVERSITY AND COURT ARE IN THE VICINITY EXPECT HIGH AND VULNERABLE PEDESTRIAN FLOW

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

NOTES/KEY

- All new/existing and relocated columns are to be fitted with Philips Luma 1, BGP623, DSS0, 22000, 80LED, S32m, 55, CLO L90, NW luminaires complete with dimming & Dali enabled titanium driver with 7 pin Nema socket including electronic photocell negative ratio set at 35 lux.
 - On existing and relocated and redundant columns, existing luminaires are to be removed off site to tip or for spares, existing brackets to be cut back to 1m and new luminaires set at 0 degrees tilt. Column to be painted grey if required.
 - Contractor to determine disconnections and new connections and installation of ducting as required to accommodate the new lighting column locations
 - Contractor to confirm location of all existing utilities.
- New 10m column complete with 1m bracket arm (to Kingston specification) with side entry mounted luminaire.
 - Existing steel column and bracket to be assessed by RBK Lighting Officer & remain in situ if deemed satisfactory. Luminaire to be upgraded to LED.
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- 1 2 3
- 4 5 6 Lux Levels.
- 7 8 9

Rev	Date	Description	By	Chkd	App'd
P1	25/09/2018	FIRST ISSUE	JMB	CF	GC

Drawing Status: **FIT FOR CONSTRUCTION APPROVAL** Suitability: **S4**

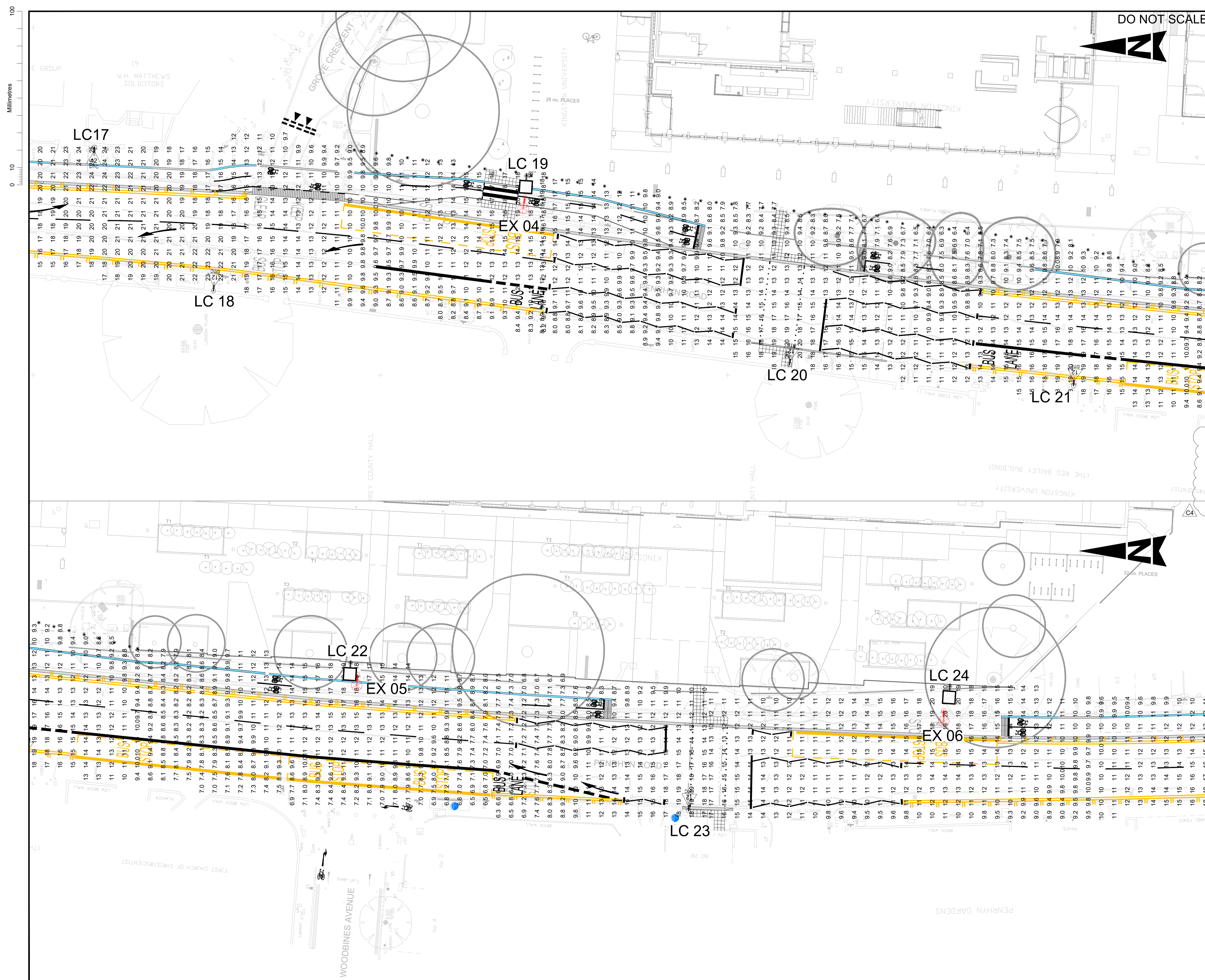
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Project Title: **KINGSTON MINI HOLLAND LOT 2**

Drawing Title: **PENRHYN ROAD LUX LAYOUT SHEET 1 OF 3**

Scale	Designed	Drawn	Checked	Authorised
1:200	GWC	JMB	CF	
Original Size	Date	Date	Date	Date
A1	25/09/18	25/09/18	25/09/18	
Drawing Number	Originator	Volume	Project Ref. No.	
MHL2	- ATK	- HLG	5141484	
PYN	- DR - EO - 0001		Revision	
Location	Type	Role	Number	
			C4	



DO NOT SCALE

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

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- MAINTENANCE/CLEANING**
UNIVERSITY AND COURT ARE IN THE VICINITY EXPECT HIGH AND VULNERABLE PEDESTRIAN FLOW
- DECOMMISSIONING/DEMOLITION**
UNIVERSITY AND COURT ARE IN THE VICINITY EXPECT HIGH AND VULNERABLE PEDESTRIAN FLOW

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

NOTES/KEY

- All new/existing and relocated columns are to be fitted with Philips Luma1_BGP623_DS50_22000_80LED_532ma_55_CLO L90_NW luminaires complete with dimming & Dalli enabled Xitanium driver with 7 pin Nema socket including electronic photocell negative ratio set at 35 lux.
 - On existing and relocated and redundant columns, existing luminaires are to be removed off site to tip or for spares, existing brackets to be cut back to 1m and new luminaires set at 0 degrees tilt. Column to be painted grey if required.
 - Contractor to determine disconnections and new connections and installation of ducting as required to accommodate the new lighting column locations
 - Contractor to confirm location of all existing utilities.
- New 10m column complete with 1m bracket arm (to Kingston specification) with side entry mounted luminaire.
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 - Existing Twin arm steel column to be cut above existing sign. Top section of column to be removed off site to tip. Twin mounted luminaires and bracket arms to be removed off site to tip or for spares as directed by RBK lighting engineer. Refer to note on plan for electrical disconnection details.

- 1 2 3 Lux Levels.
- 4 5 6
- 7 8 9

Rev	Date	Description	By	Chk'd	App'd
P1	25/09/2018	FIRST ISSUE	JMB	CF	GC
C1	31.10.18	CONSTRUCTION ISSUE	PT	PE	CC
C2	31.10.18	PROPOSED LUMINAIRES CHANGED	PT	PE	CC
C3	05.11.18	NUMBER OF NEW/REMOVED COLUMNS HAS CHANGED	PT	PE	CC
C4	23.11.18	KEY AMENDED AND NOTES ON SHEET 1 ADDED	PT	PE	CC

Drawing Status: **FIT FOR CONSTRUCTION APPROVAL** Suitability: **S4**

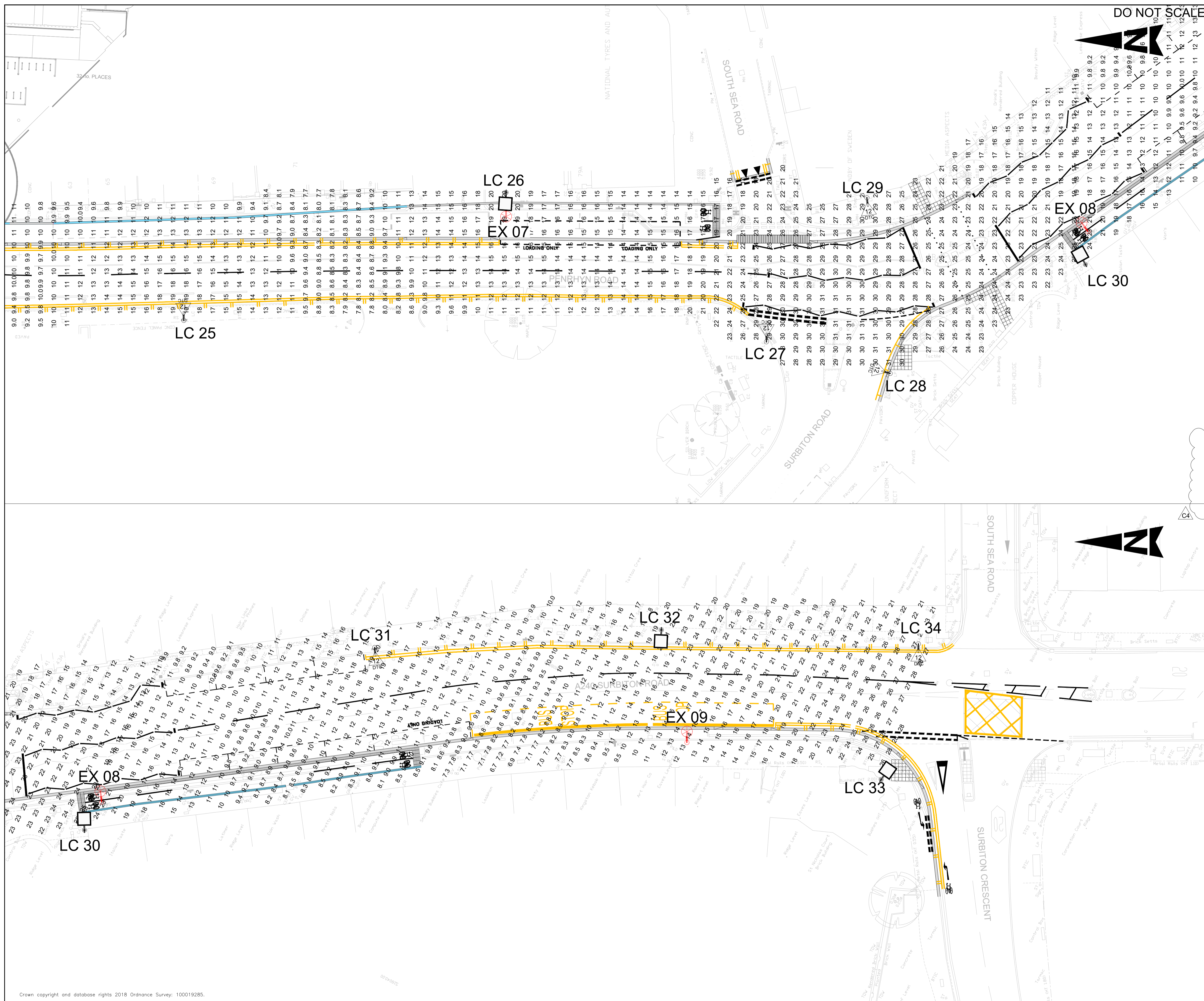
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Project Title: **KINGSTON MINI HOLLAND LOT 2**

Drawing Title: **PENRHYN ROAD LUX LAYOUT SHEET 2 OF 3**

Scale	Designed	Drawn	Checked	Authorised
1:200	GWC	JMB	CF	
Original Size	Date	Date	Date	Date
A1	25/09/18	25/09/18	25/09/18	
Drawing Number	Originator	Volume	Project Ref. No.	
MHL2	- ATK	- HLG	5141484	
PYN	- DR - EO - 0002		Revision	C4
Location	Type	Role	Number	



DO NOT SCALE

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

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NOTES/KEY

- All new/existing and relocated columns are to be fitted with Philips Luma1_BGP623_D550_22000_80LED_S32mA_55_CLO_L90_NW luminaires complete with dimming & Dali enabled Xitanium driver with 7 pin Nema socket including electronic photocell negative ratio set at 35 lux.
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1 2 3
4 5 6 Lux Levels.
7 8 9

Rev.	Date	Description	JMB	CF	GC
C4	23.11.18	KEY AMENDED AND NOTES ON SHEET 1 ADDED	PT	PE	CC
C3	05.11.18	NUMBER OF NEW/REMOVED COLUMNS CHANGED	PT	PE	CC
C2	31.10.18	PROPOSED LUMINAIRES CHANGED	PT	PE	CC
C1	31.10.18	CONSTRUCTION ISSUE	PT	PE	CC
P1	25/09/2018	FIRST ISSUE	JMB	CF	GC

Drawing Status: **FIT FOR CONSTRUCTION APPROVAL** Suitability: **S4**

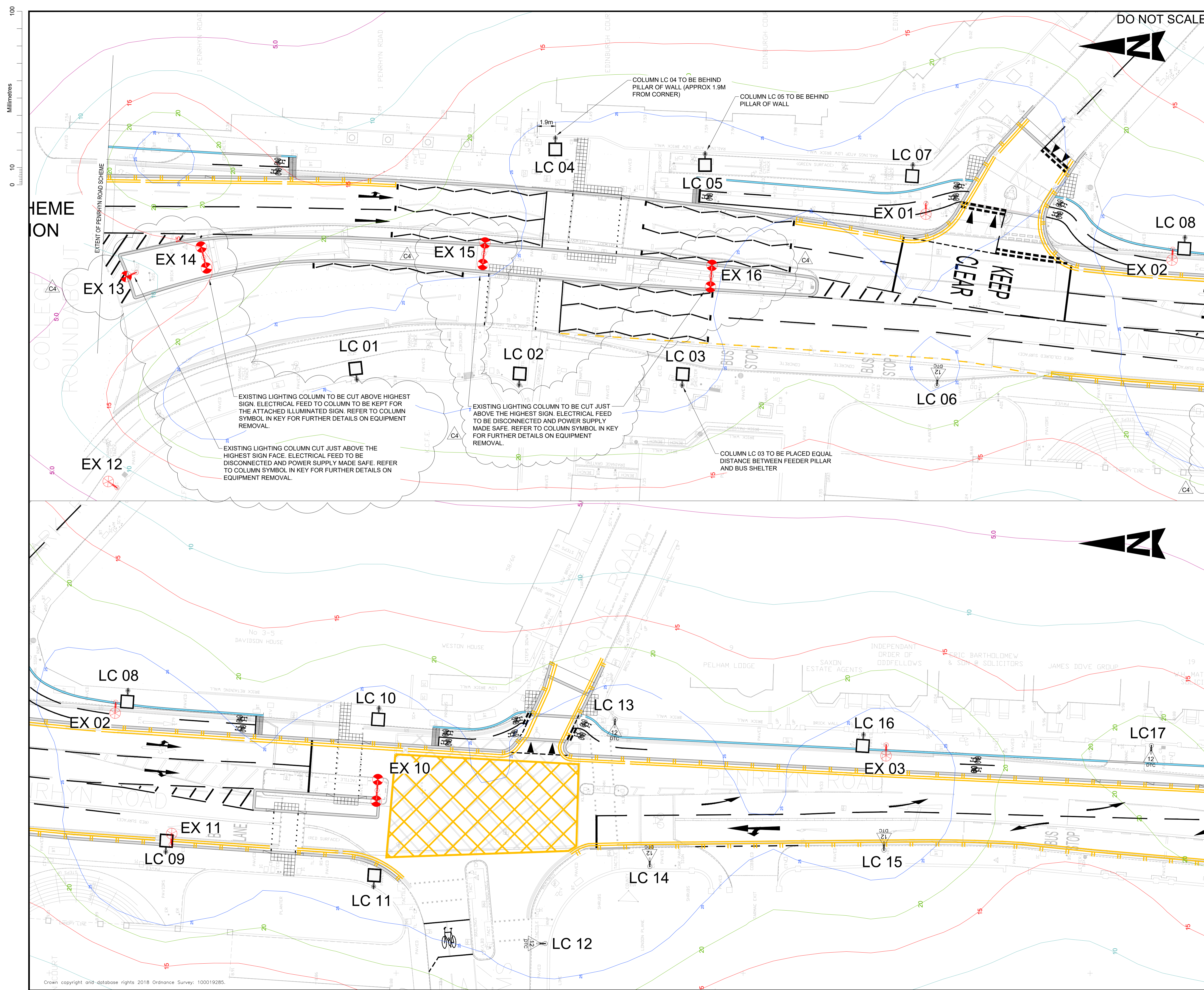
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Client: **KINGSTON MINI HOLLAND LOT 2**

Drawing Title: **PENRHYN ROAD LUX LAYOUT SHEET 3 OF 3**

Scale	Designed	Drawn	Checked	Authorised	
1:200	GWC	JMB	CF		
Original Size	Date	Date	Date	Date	
A1	25/09/18	25/09/18	25/09/18		
Drawing Number	Originator	Volume	Project Ref. No.		
HA PIN	MHL2	- ATK -	- HLG -	5141484	
Location	Type	Role	Number	Revision	
	PYN	- DR -	- EO -	0003	C4



DO NOT SCALE

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

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- DECOMMISSIONING/DEMOLITION**
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NOTES/KEY

- All new/existing and relocated columns are to be fitted with Philips Lumina1_BGP623_D550_22000_80LED_532mA_55_CL0190_NW luminaires complete with dimming & Dali enabled Xitanium driver with 7 pin Nema socket including electronic photocell negative ratio set at 35 lux.
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LIGHTING LEVEL CONTOUR KEY

5.0	5 Lux Contour
10	10 Lux Contour
15	15 Lux Contour
20	20 Lux Contour
25	25 Lux Contour

C4	23.11.18	KEY AMENDED AND NOTES ON PLAN ADDED	PT	PE	CC
C3	05.11.18	NUMBER OF NEW/REMOVED COLUMNS AMENDED	PT	PE	CC
C2	31.10.18	PROPOSED LUMINAIRES CHANGED	PT	PE	CC
C1	31.10.18	CONSTRUCTION ISSUE	PT	PE	CC
Rev	25/09/2018	FIRST ISSUE	JMB	CF	GC
P1	Date	Description	By	Chk'd	App'd

Drawing Status: **FIT FOR CONSTRUCTION APPROVAL** Suitability: **S4**

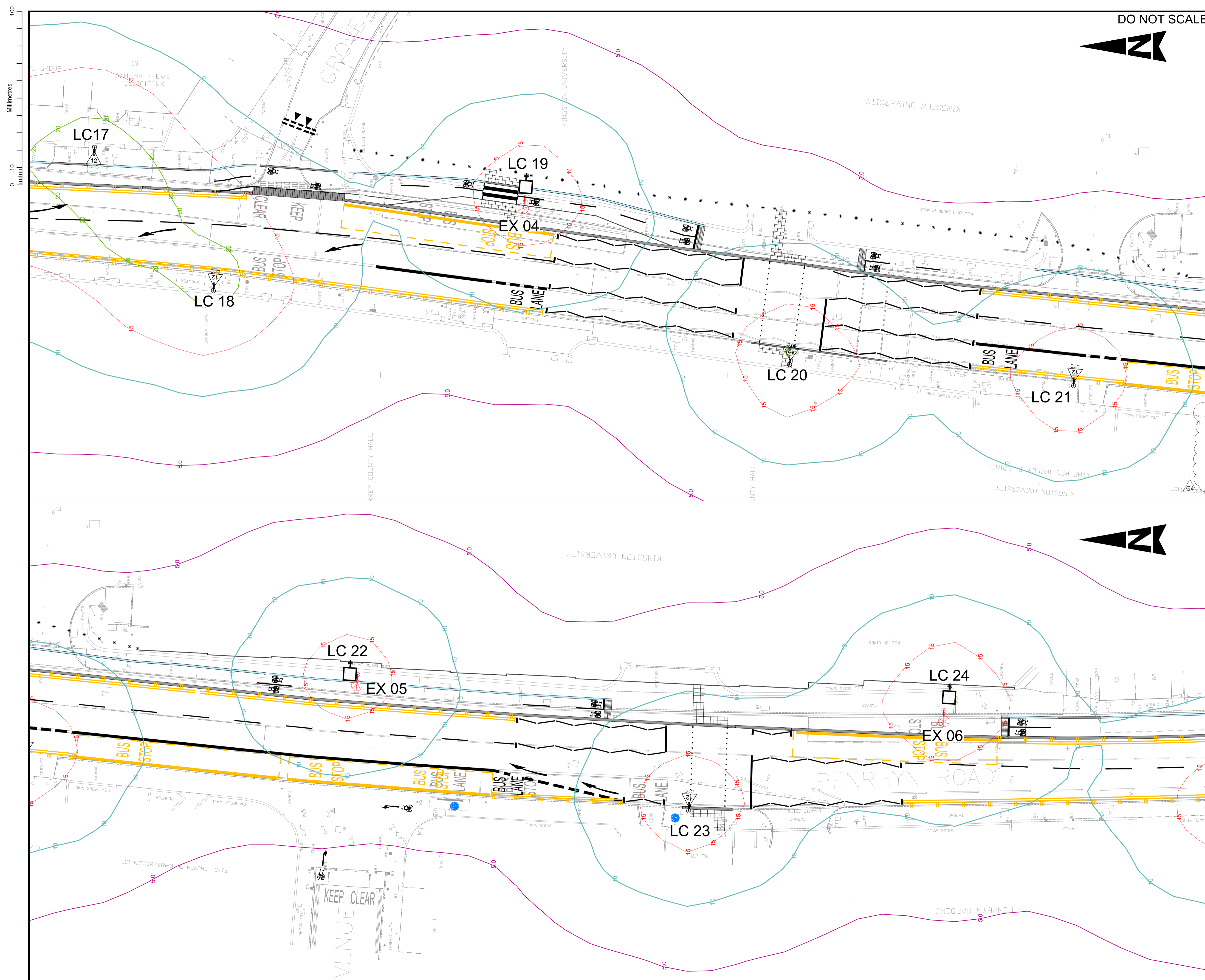
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Project Title: **KINGSTON MINI HOLLAND LOT 2**

Drawing Title: **PENRHYN ROAD CONTOUR LAYOUT SHEET 1 OF 3**

Scale	1:200	Designed	GWC	Drawn	JMB	Checked	CF	Authorised	
Original Size	A1	Date	25/09/18	Date	25/09/18	Date	25/09/18	Date	
Drawing Number	MHL2	Originator	- ATK	Volume	- HLG	Project Ref. No.	5141484		
HA PIN	PYN	Type	- DR	Role	- EO	Number	0004	Revision	C4



DO NOT SCALE



SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

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- DECOMMISSIONING/DEMOLITION**
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NOTES/KEY

- All new/existing and relocated columns are to be fitted with Philips Luma1_BGP623_DS50_22000_80LED_532mA_55_CLO L90_NW luminaires complete with dimming & Dali enabled Xitanium driver with 7 pin Nema socket including electronic photocell negative ratio set at 35 lux.
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LIGHTING LEVEL CONTOUR KEY

5.0	5 Lux Contour
10	10 Lux Contour
15	15 Lux Contour
20	20 Lux Contour
25	25 Lux Contour

Rev.	Date	Description	By	Chk'd	App'd
P1	25/09/2018	FIRST ISSUE	JMB	CF	GC
C1	31.10.18	CONSTRUCTION ISSUE	PT	PE	CC
C2	31.10.18	PROPOSED LUMINAIRES CHANGED	PT	PE	CC
C3	05.11.18	NUMBER OF NEW/REMOVED COLUMNS CHANGED	PT	PE	CC
C4	23.11.18	KEY AMENDED AND NOTES ON SHEET 1 ADDED	PT	PE	CC

Drawing Status: **FIT FOR CONSTRUCTION APPROVAL** Suitability: **S4**

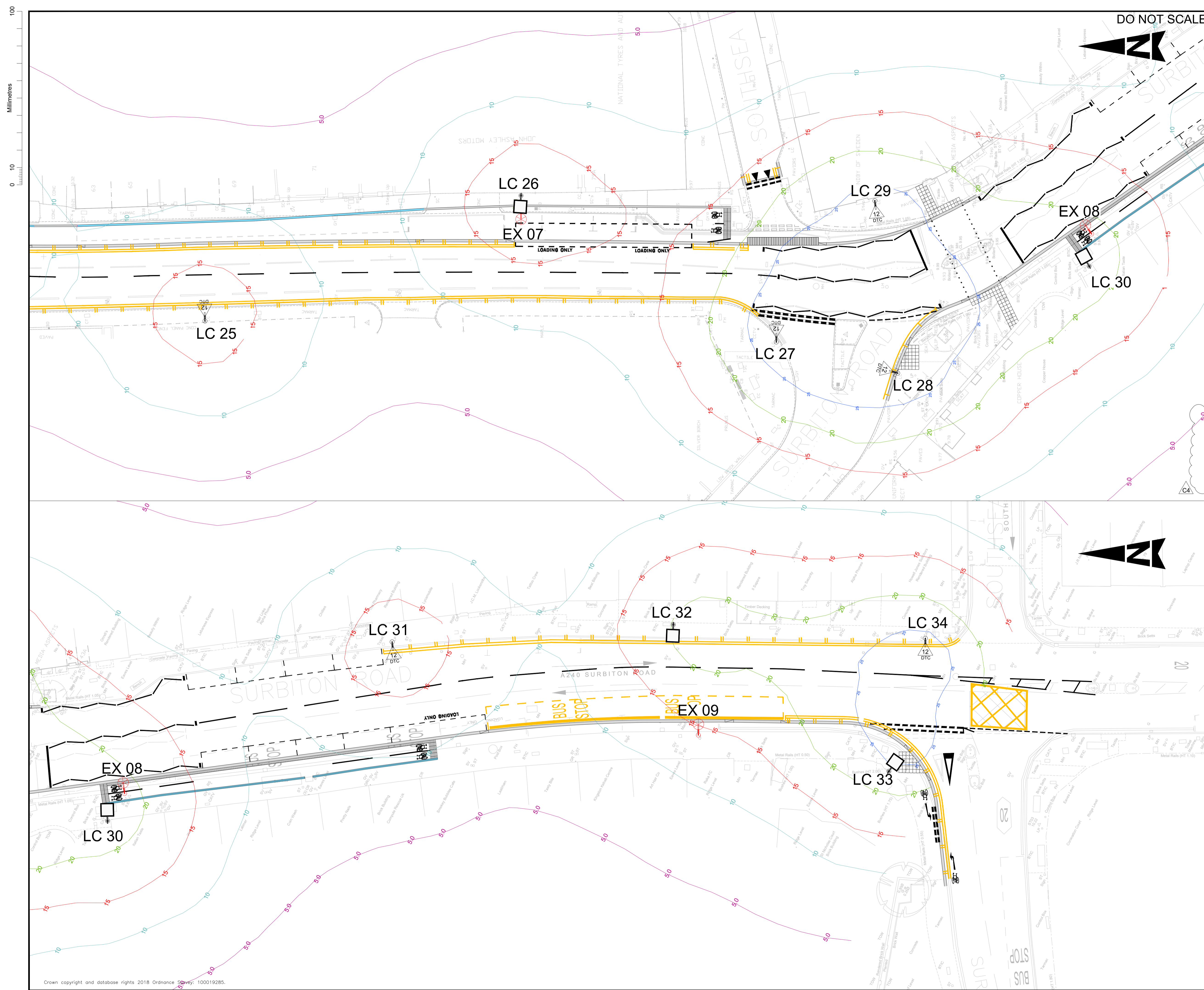
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Project Title: **KINGSTON MINI HOLLAND LOT 2**

Drawing Title: **PENRHYN ROAD CONTOUR LAYOUT SHEET 2 OF 3**

Scale	Designed	Drawn	Checked	Authorised
1:200	GWC	JMB	CF	
Original Size	Date	Date	Date	Date
A1	25/09/18	25/09/18	25/09/18	
Drawing Number	Originator	Volume	Project Ref. No.	
MHL2	ATK	HLG	5141484	
PYN	DR	EO	0005	Revision
	Type	Role	Number	C4



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NOTES/KEY

1. All new/existing and relocated columns are to be fitted with Philips Luma1_BG623_DS50_22000_80LED_532mA_55_CLO_L90_NW luminaires complete with dimming & DALI enabled Kitium driver with 7 pin Nema socket including electronic photocell negative ratio set at 35 lux.
 2. On existing and relocated and redundant columns, existing luminaires are to be removed off site to tip or for spares, existing brackets to be cut back to 1m and new luminaires set at 0 degrees tilt. Column to be painted grey if required.
 3. Contractor to determine disconnections and new connections and installation of ducting as required to accommodate the new lighting column locations.
 4. Contractor to confirm location of all existing utilities.
- New 10m column complete with 1m bracket arm (to Kingston specification) with side entry mounted luminaire.
 Existing steel column and bracket to be assessed by RBK Lighting Officer & remain in situ if deemed satisfactory. Luminaire to be upgraded to LED.
 Existing steel column, lantern and bracket to be assessed by RBK Lighting Officer & removed to store for spares if deemed satisfactory. Lantern to be removed off site to tip or for spares.
 Existing steel column to be cut above existing sign. Top section of column to be removed off site to tip. Lantern and bracket to be assessed by RBK Lighting Officer & removed to store for spares if deemed satisfactory. Refer to note on plan for electrical disconnection details.
 Existing Twin arm steel column to be cut above existing sign. Top section of column and bracket arms to be removed off site to tip or for spares as directed by RBK lighting engineer. Refer to note on plan for electrical disconnection details.

LIGHTING LEVEL CONTOUR KEY

5.0	5 Lux Contour
10	10 Lux Contour
15	15 Lux Contour
20	20 Lux Contour
25	25 Lux Contour

Rev.	Date	Description	By	Chk'd	App'd
C4	23.11.18	KEY AMENDED AND NOTES ON SHEET 1 ADDED	PT	PE	CC
C3	05.11.18	NUMBER OF NEW/REMOVED COLUMNS CHANGED	PT	PE	CC
C2	31.10.18	PROPOSED LUMINAIRES CHANGED	PT	PE	CC
C1	31.10.18	CONSTRUCTION ISSUE	PT	PE	CC
P1	25/09/2018	FIRST ISSUE	JMB	CF	GC

Drawing Status: **FIT FOR CONSTRUCTION APPROVAL** Suitability: **S4**

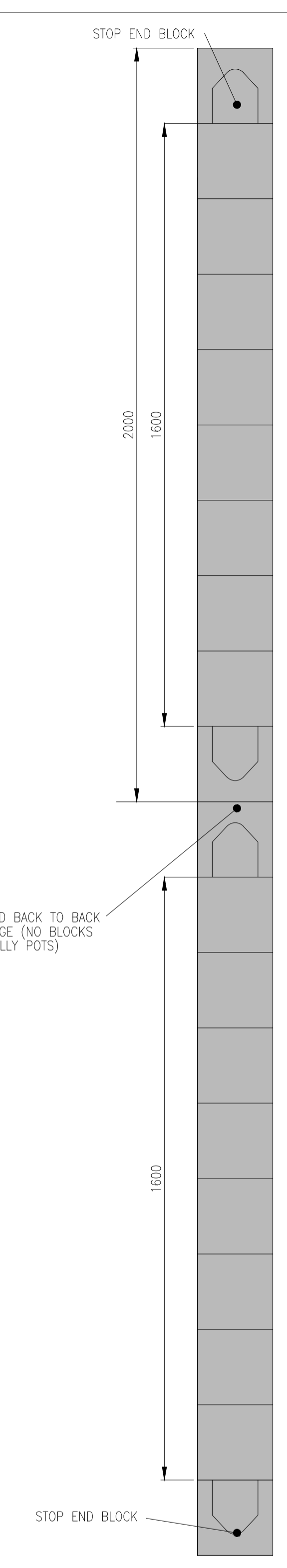
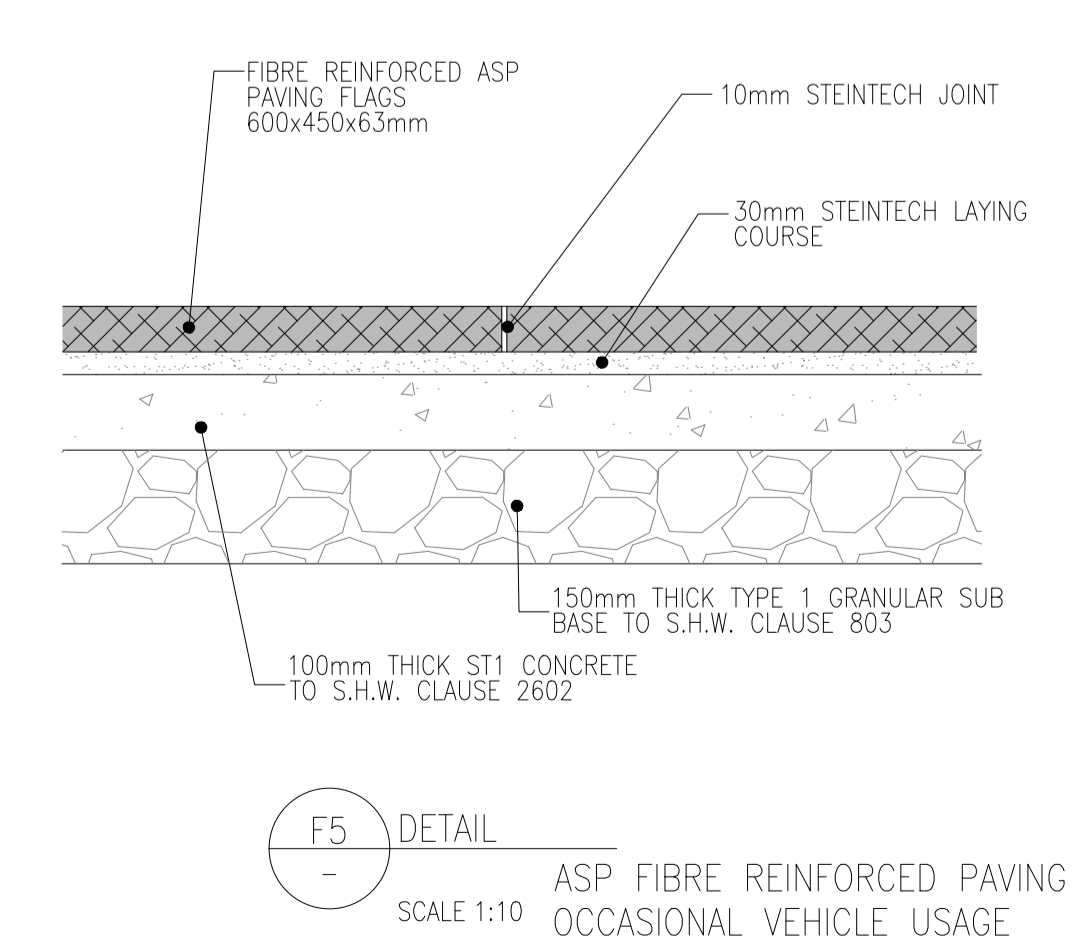
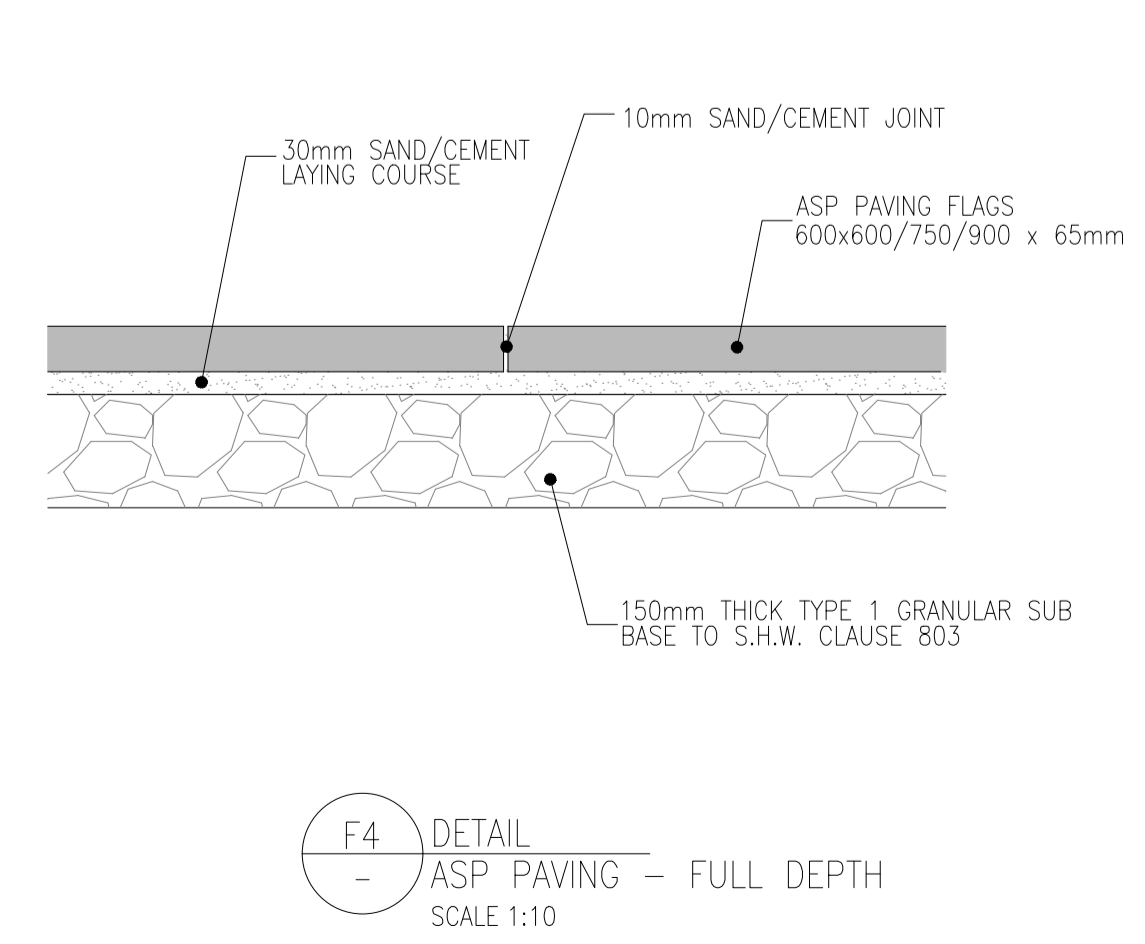
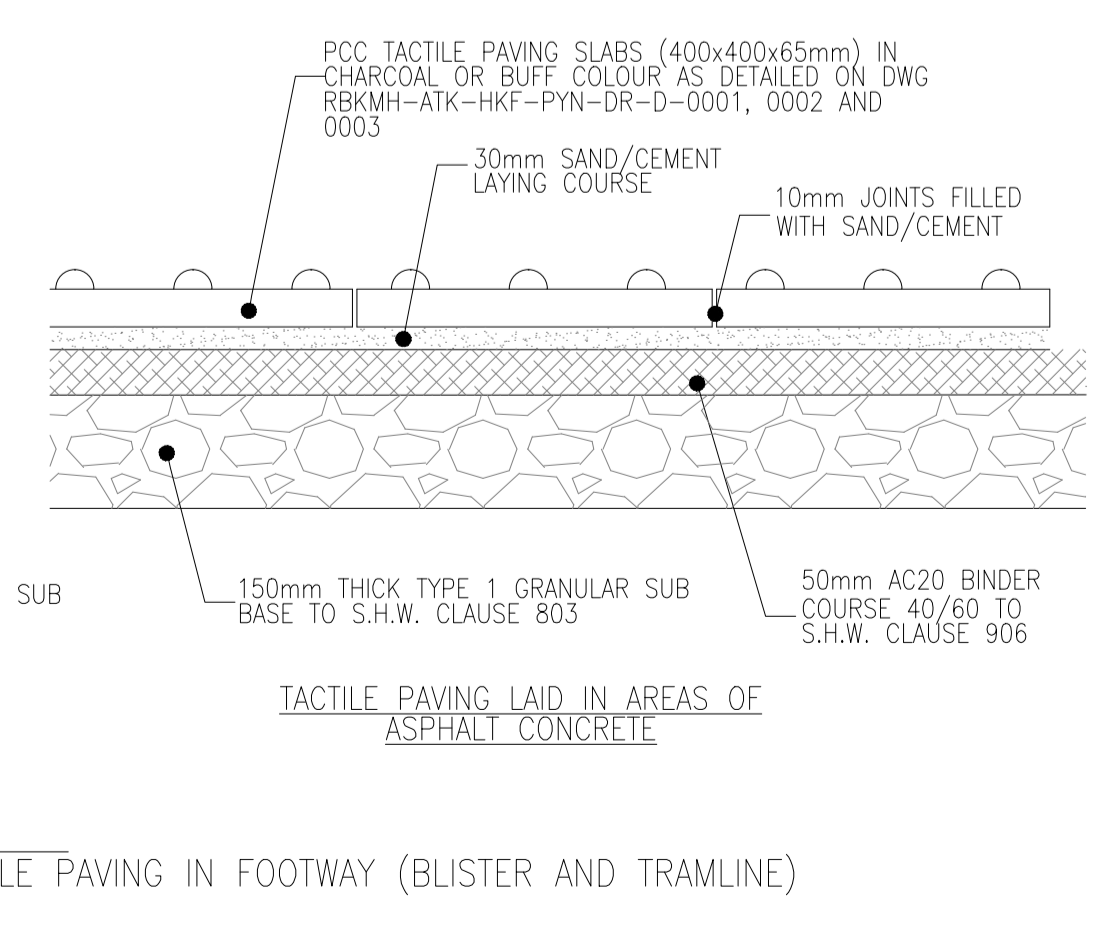
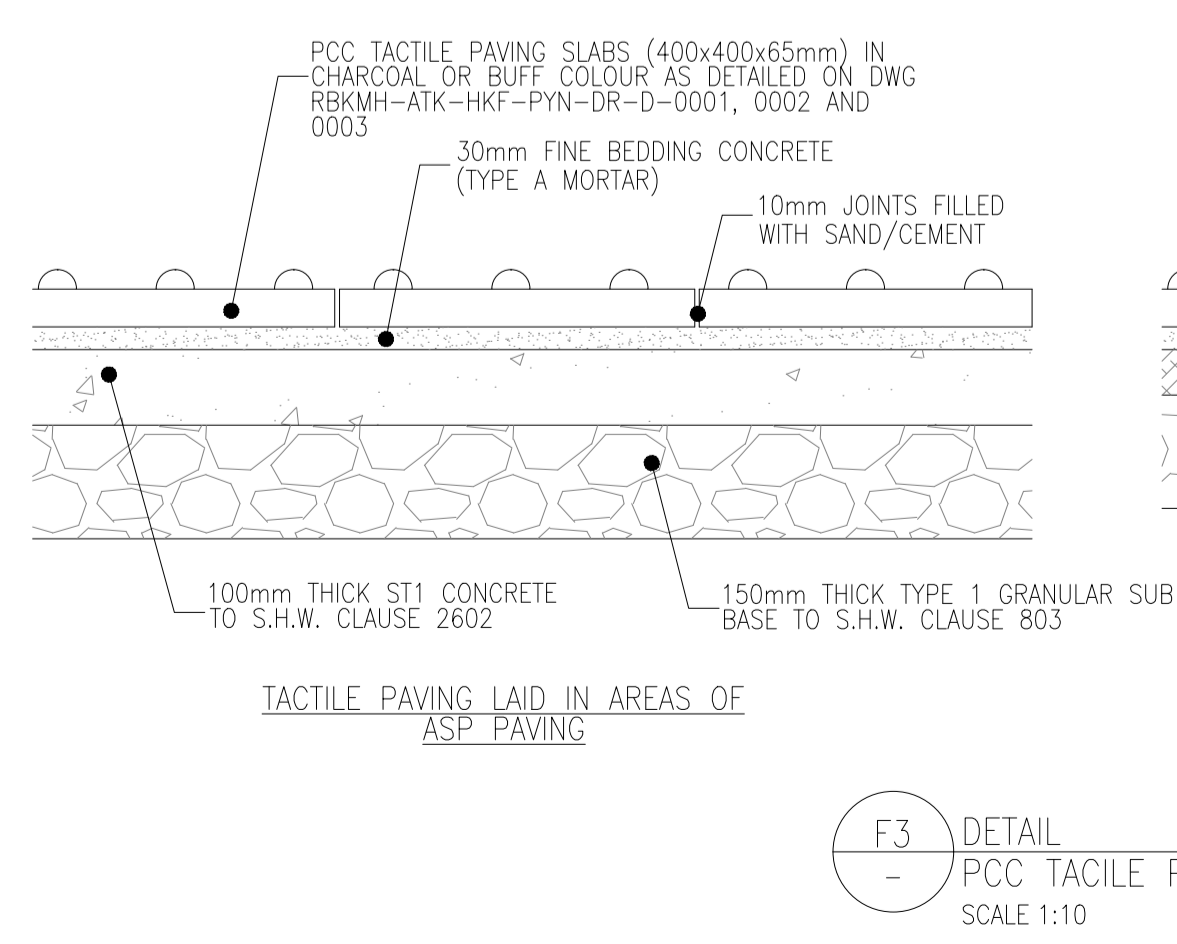
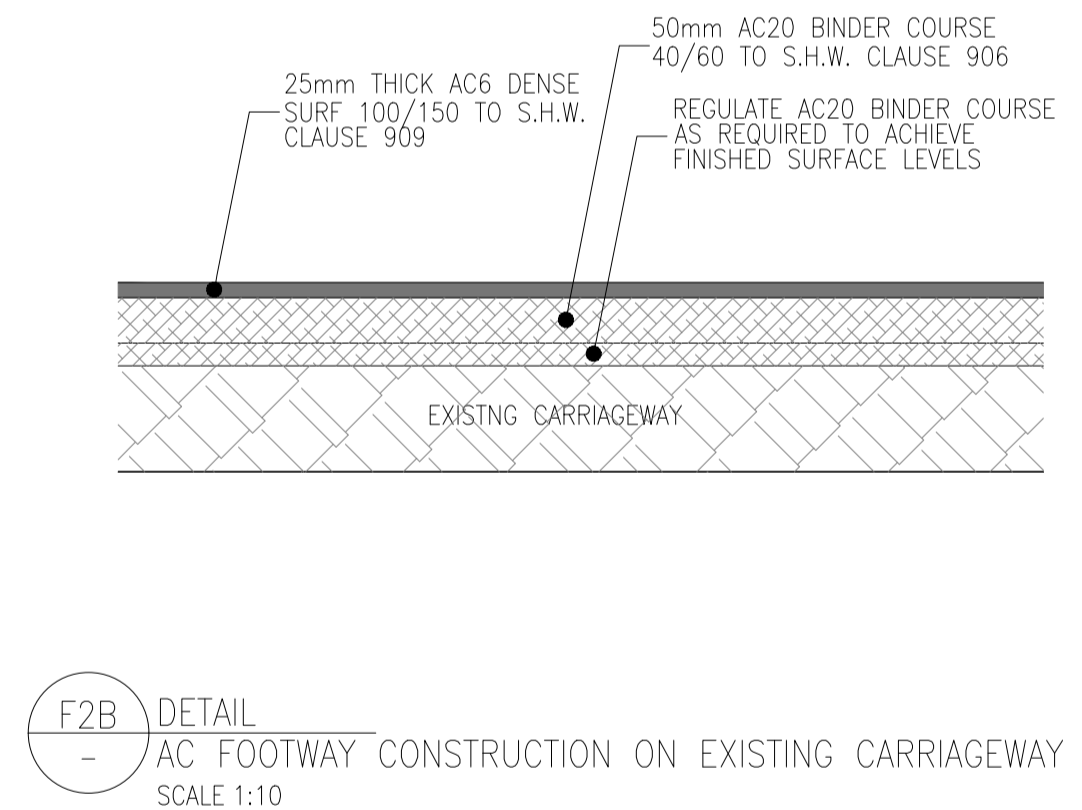
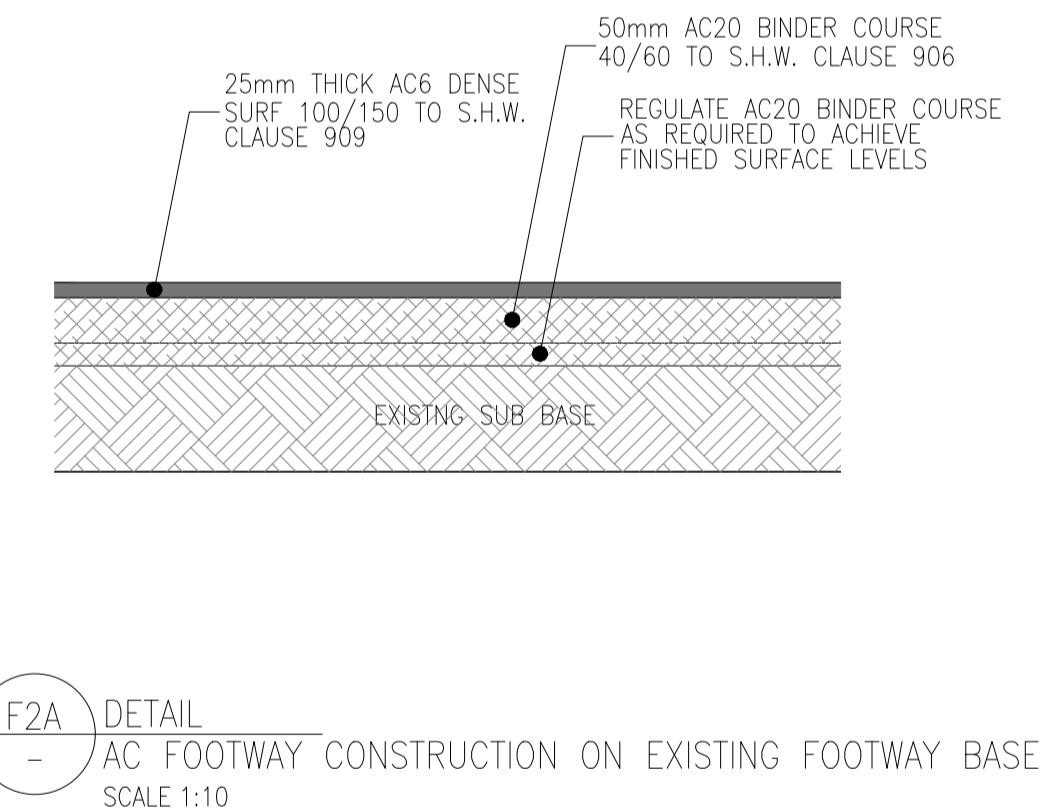
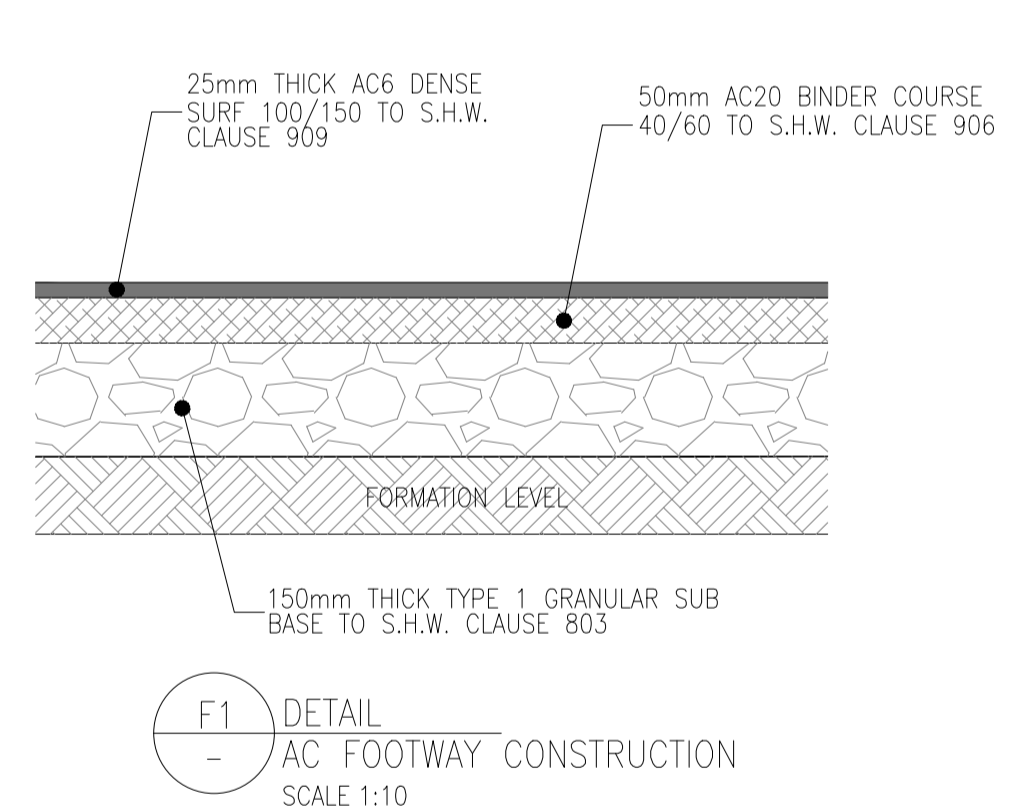
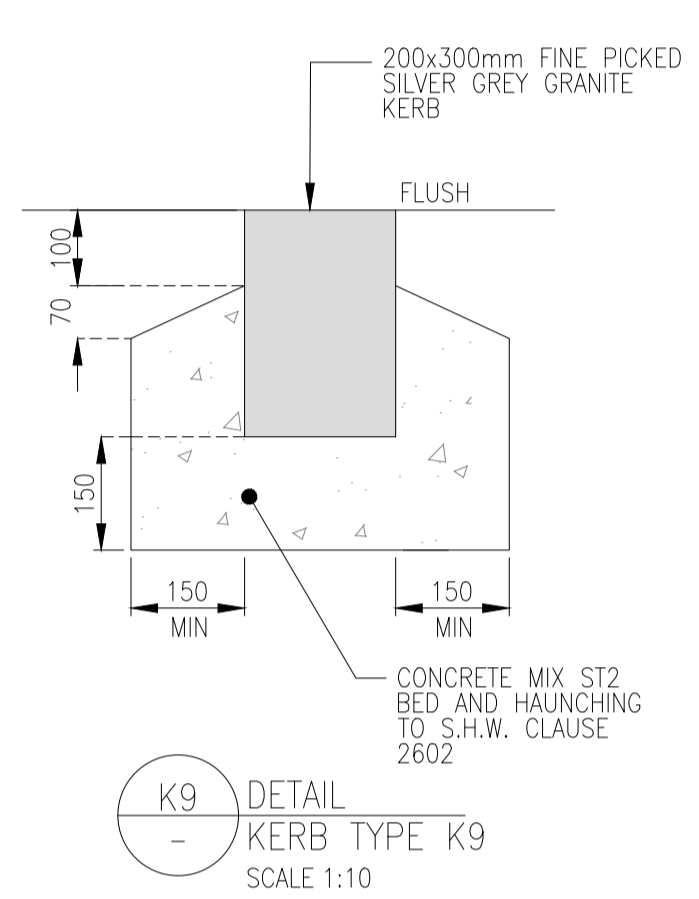
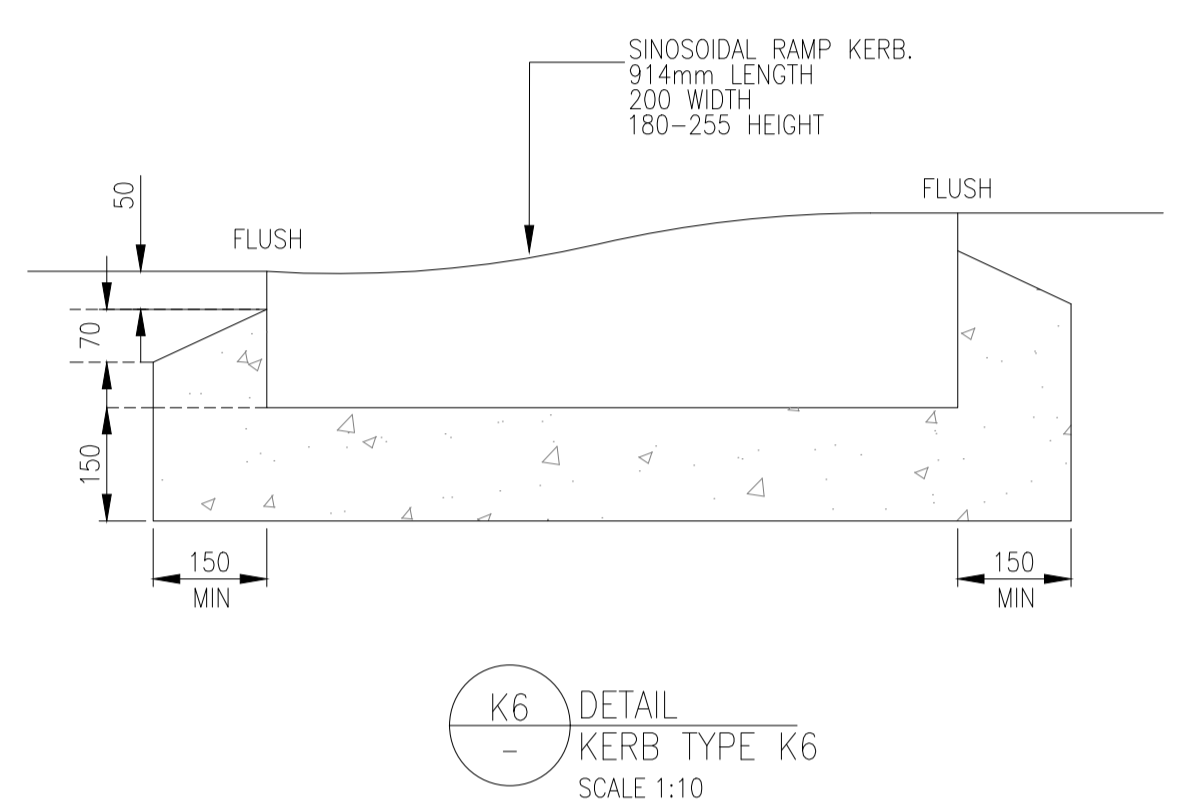
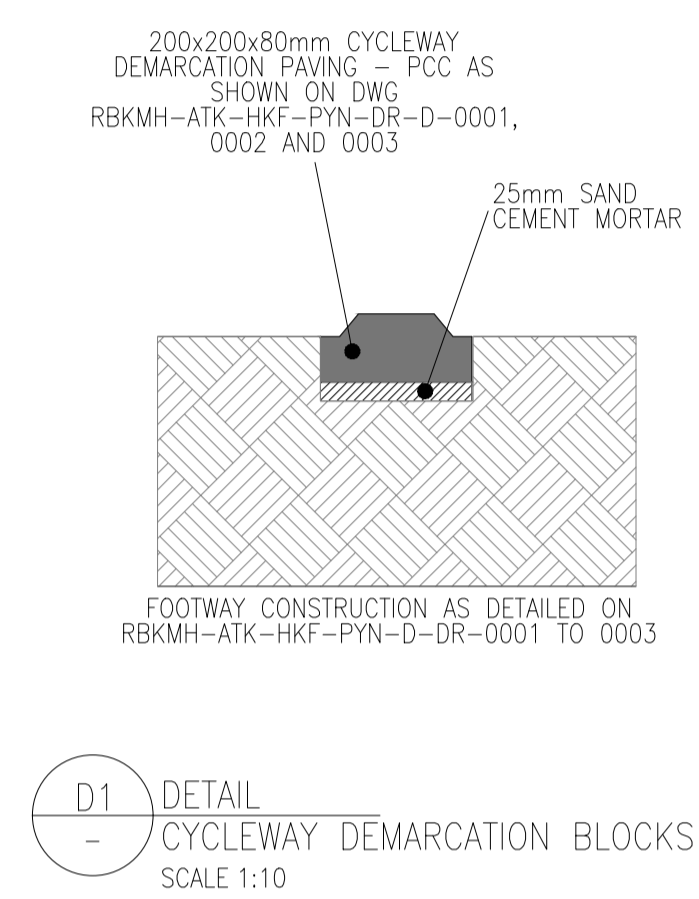
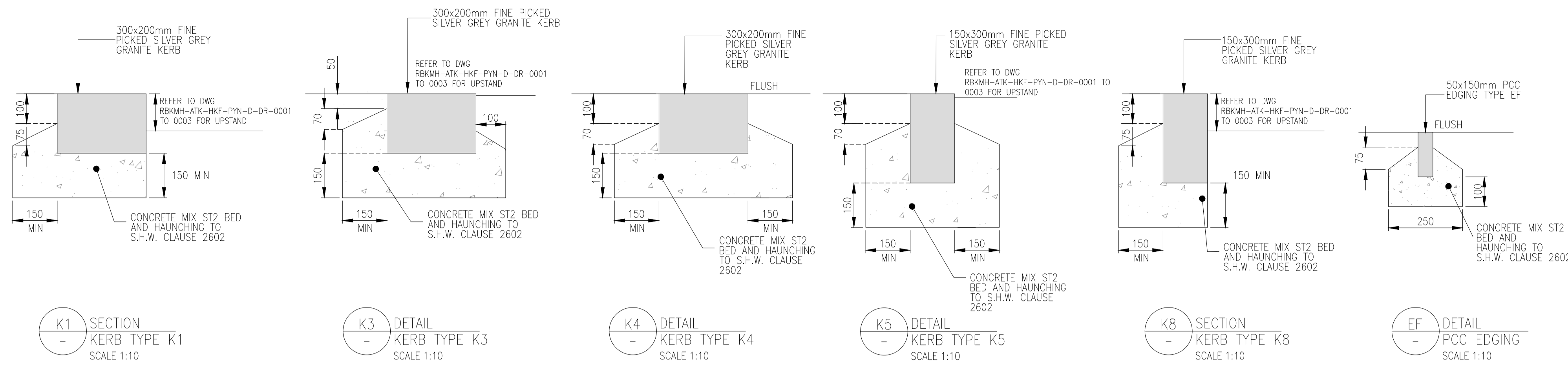
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Client: **KINGSTON MINI HOLLAND LOT 2**

Drawing Title: **PENRHYN ROAD CONTOUR LAYOUT SHEET 3 OF 3**

Scale	Designed	Drawn	Checked	Authorised
1:200	GWC	JMB	CF	
Original Size	Date	Date	Date	Date
A1	25/09/18	25/09/18	25/09/18	
Drawing Number	Originator	Volume	Project Ref. No.	
MHL2	- ATK	- HLG	5141484	
PYN	- DR	- EO	- 0006	Revision
Location	Type	Role	Number	C4



- NOTES:**
- IT IS THE CONTRACTORS RESPONSIBILITY TO CHECK THE LOCATION OF THE EXISTING STATUTORY SERVICES PRIOR TO CONSTRUCTION, PARTICULAR ATTENTION IS DRAWN TO THE "NEW ROADS AND STREET WORKS ACT 1991".
 - REFER TO THE DRAWINGS REGISTER FOR THE FULL LIST OF DETAILED DRAWINGS.
 - ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
 - REFER TO DRAWINGS RBKMH-ATK-HKF-PYN-D-DR-0001, 0002 AND 0003 FOR LOCATIONS OF FOOTWAY CONSTRUCTIONS SHOWN.
 - WHERE SPECIFIED ON DRAWING RBKMH-ATK-HKF-PYN-D-DR-0001, 0002 AND 0003 SAND/CEMENT BEDDING AND JOINTING TO BE REPLACED BY STEINTECH BEDDING AND JOINTING TO THE SAME THICKNESS.

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

CONSTRUCTION
REFER TO THE DESIGNER'S RISK REGISTER

MAINTENANCE/CLEANING
REFER TO THE DESIGNER'S RISK REGISTER

DECOMMISSIONING/DEMOLITION
REFER TO THE DESIGNER'S RISK REGISTER

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

Rev.	Date	Description	By	Chk'd	App'd
C4	23.11.18	DETAIL F9 ON SHEET 2 AMENDED	PT	PE	CC
C3	25.10.18	CONSTRUCTION ISSUE	PT	PE	CC
C2	01.08.18	PAVING SPECIFICATION AMENDED AND NEW KERB DETAILS ADDED	PT	PE	CC
C1	23.07.18	DRAFT FOR COMMENT	PT	PE	CC

Drawing Status: **FIT FOR CONSTRUCTION APPROVAL** Suitability: **S4**

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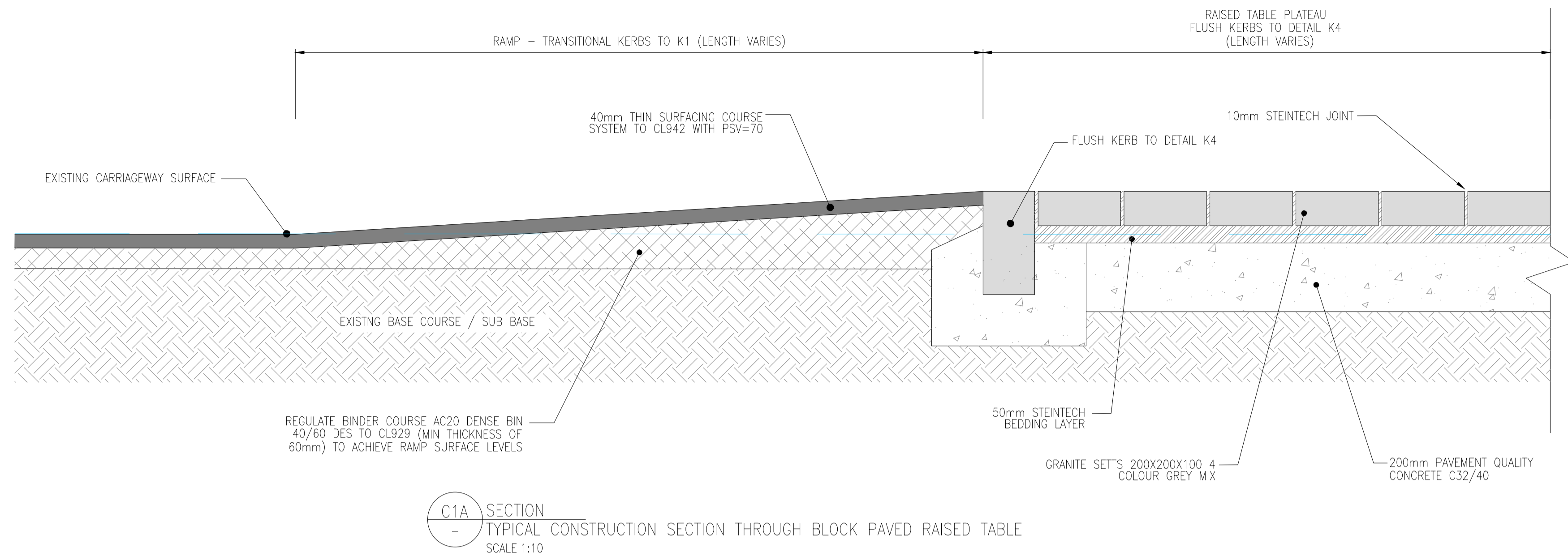
Client: THE ROYAL BOROUGH OF KINGSTON UPON THAMES

Project Title: **KINGSTON MINI HOLLAND LOT 2**

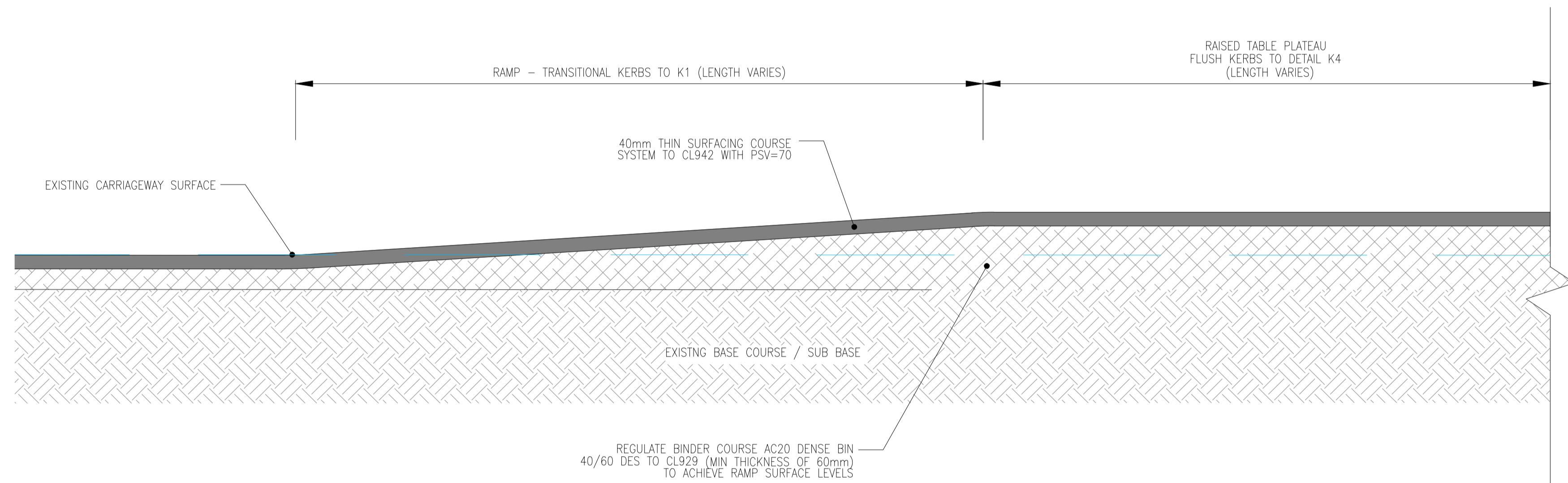
Drawing Title: **PENRHYN ROAD DETAILED DESIGN CONSTRUCTION DETAILS SHEET 1 OF 2**

Scale	Designed	Drawn	Checked	Authorised
AS SHOWN	PT	PT	PE	CC
Original Size	Date	Date	Date	Date
A1	23.07.18	23.07.18	23.07.18	23.07.18

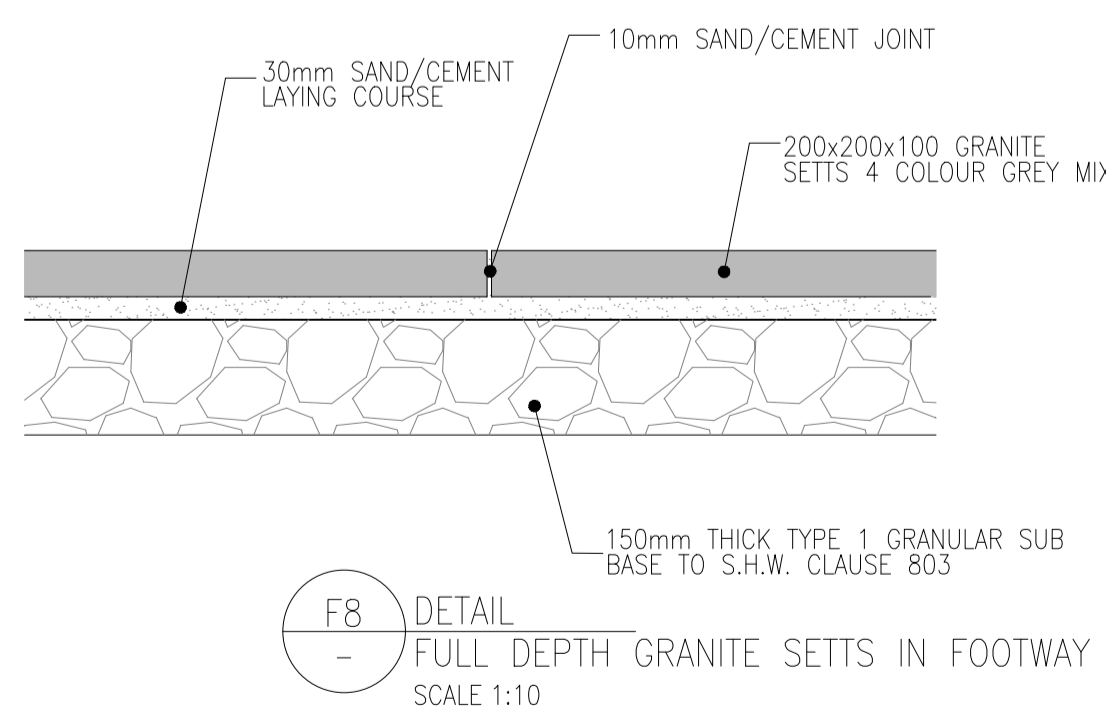
Drawing Number: **RBKMH-ATK-HML-PYN-DE-D-0001** Revision: **C4**



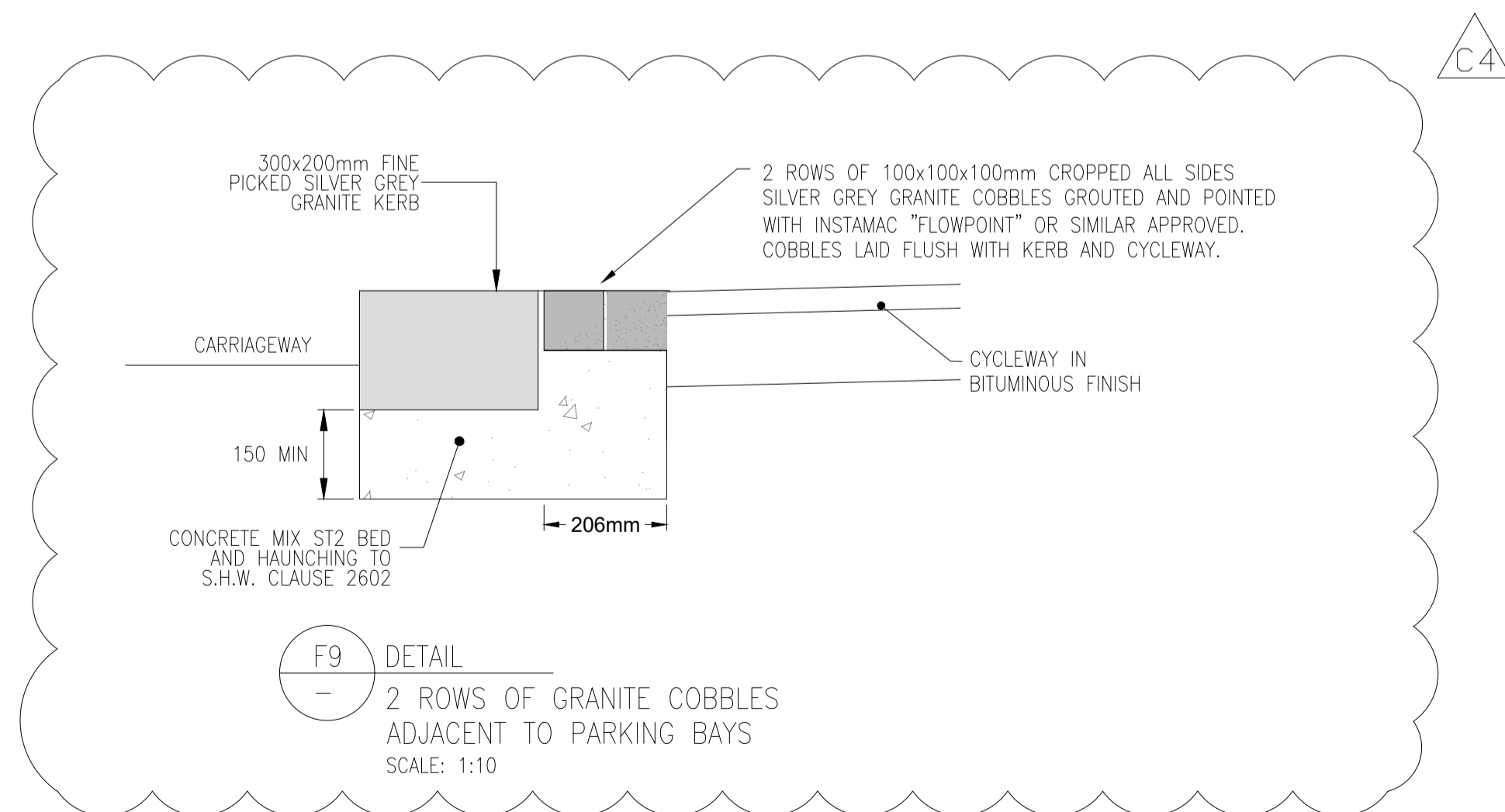
C1A SECTION
-
TYPICAL CONSTRUCTION SECTION THROUGH BLOCK PAVED RAISED TABLE
SCALE 1:10



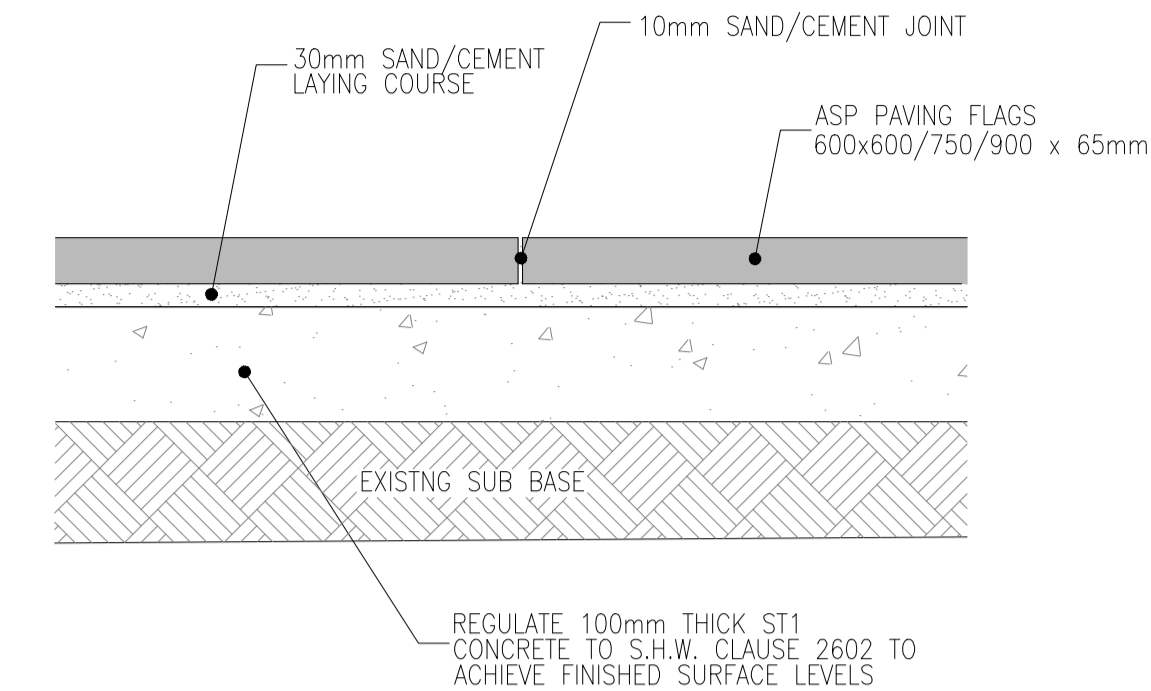
C1B SECTION
-
TYPICAL CONSTRUCTION SECTION THROUGH ASPHALT RAISED TABLE
SCALE 1:10



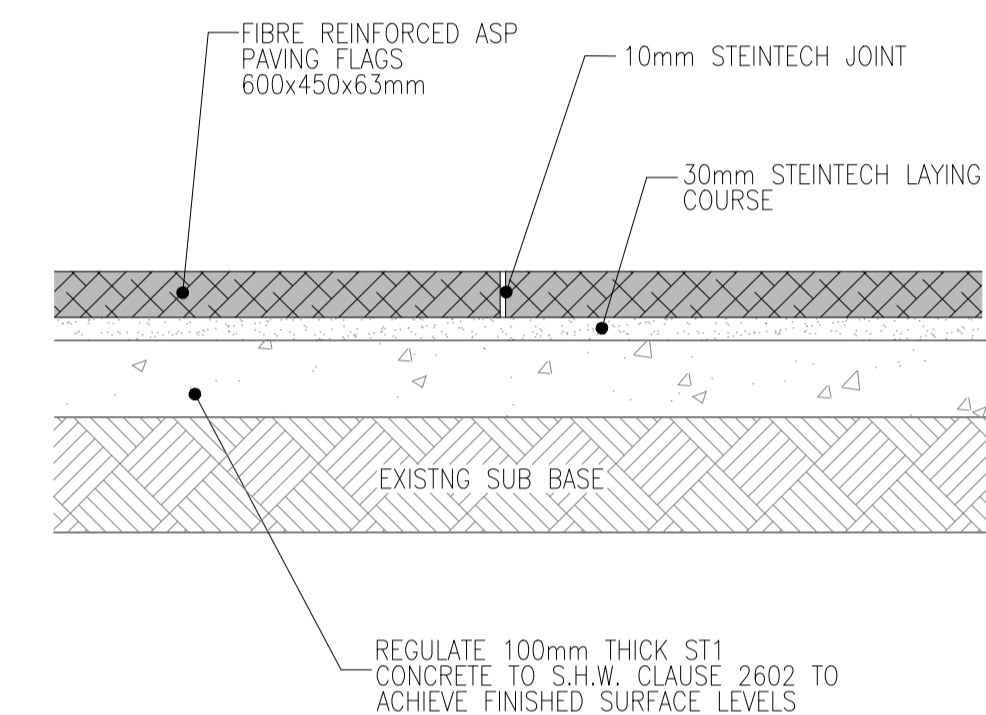
F8 DETAIL
-
FULL DEPTH GRANITE SETTS IN FOOTWAY
SCALE 1:10



F9 DETAIL
-
2 ROWS OF GRANITE COBBLES ADJACENT TO PARKING BAYS
SCALE: 1:10



F6 DETAIL
-
ASP PAVING - ON EXISTING CARRIAGEWAY BASE
SCALE 1:10



F7A DETAIL
-
ASP FIBRE REINFORCED PAVING - OCCASIONAL VEHICLE USAGE ON EXISTING CARRIAGEWAY SUB BASE
SCALE 1:10

NOTES:

1. IT IS THE CONTRACTORS RESPONSIBILITY TO CHECK THE LOCATION OF THE EXISTING STATUTORY SERVICES PRIOR TO CONSTRUCTION, PARTICULAR ATTENTION IS DRAWN TO THE "NEW ROADS AND STREET WORKS ACT 1991".
2. REFER TO THE DRAWINGS REGISTER FOR THE FULL LIST OF DETAILED DRAWINGS.
3. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
4. REFER TO DRAWINGS RBKMH-ATK-HPV-PYN-DR-D-0001, 0002 AND 0003 FOR RAMP CONSTRUCTION SHOWN.

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

CONSTRUCTION

REFER TO THE DESIGNER'S RISK REGISTER

MAINTENANCE/CLEANING

REFER TO THE DESIGNER'S RISK REGISTER

DECOMMISSIONING/DEMOLITION

REFER TO THE DESIGNER'S RISK REGISTER

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

Rev.	Date	Description	By	Chk'd	App'd
C4	23.11.18	DETAIL F9 AMENDED	PT	PE	CC
C3	25.10.18	CONSTRUCTION ISSUE	PT	PE	CC
C2	01.08.18	DETAILS ADDED FROM SHEET 1	PT	PE	CC
C1	23.07.18	DRAFT FOR COMMENT	PT	PE	CC

Drawing Status: **FIT FOR CONSTRUCTION APPROVAL** Suitability: **S4**

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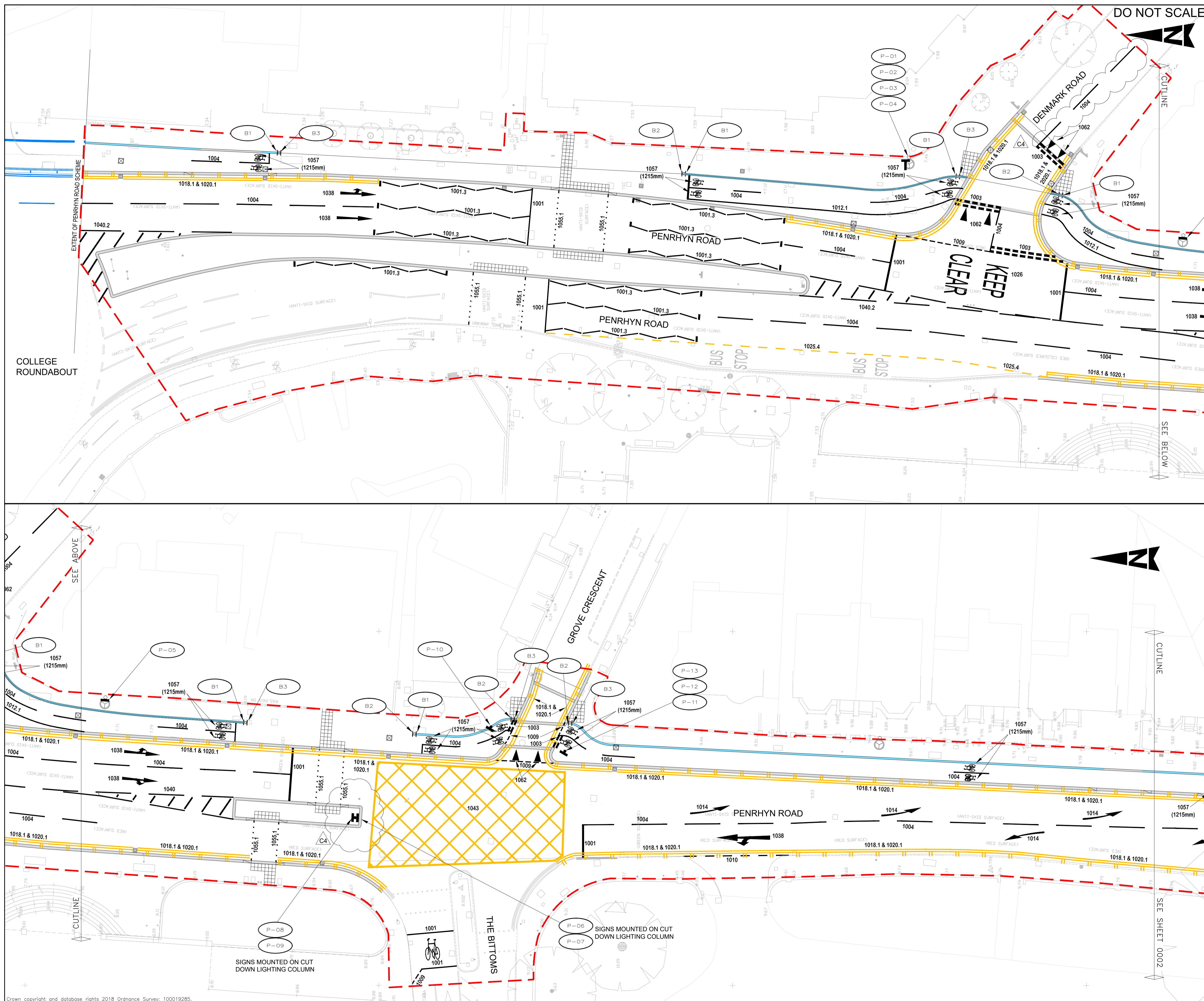


Project Title: **KINGSTON MINI HOLLAND LOT 2**

Drawing Title: **PENRHYN ROAD DETAILED DESIGN CONSTRUCTION DETAILS SHEET 2 OF 2**

Scale	Designed	Drawn	Checked	Authorised
AS SHOWN	PT	PT	PE	CC
Original Size	Date	Date	Date	Date
A1	23.07.18	23.07.18	23.07.18	23.07.18

Drawing Number: **RBKMH-ATK-HML-PYN-DE-D-0002** Revision: **C4**



SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

CONSTRUCTION
UNIVERSITY AND COURT ARE IN THE VICINITY EXPECT HIGH AND VULNERABLE PEDESTRIAN FLOW

MAINTENANCE/CLEANING
UNIVERSITY AND COURT ARE IN THE VICINITY EXPECT HIGH AND VULNERABLE PEDESTRIAN FLOW

DECOMMISSIONING/DEMOLITION
UNIVERSITY AND COURT ARE IN THE VICINITY EXPECT HIGH AND VULNERABLE PEDESTRIAN FLOW

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

NOTES:

- IT IS THE CONTRACTORS RESPONSIBILITY TO CHECK THE LOCATION OF THE EXISTING STATUTORY SERVICES PRIOR TO CONSTRUCTION, PARTICULAR ATTENTION IS DRAWN TO THE "NEW ROADS AND STREET WORKS ACT 1991".
- REFER TO THE DRAWINGS REGISTER FOR THE FULL LIST OF DETAILED DRAWINGS.
- ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
- REFER TO THE PROPOSED TRAFFIC SIGNS & SIGN SCHEDULE DRAWING BKM-H-ATK-HSN-PYN-DR-D-0005 FOR PROPOSED SIGNS AND SCHEDULES
- ALL DIMENSIONS ARE IN METRES UNLESS SHOWN OTHERWISE.
- ROAD MARKINGS SHALL BE TO THE STANDARD (NON-BRACKETED) DIMENSIONS SHOWN IN THE TRAFFIC SIGNS REGULATIONS AND GENERAL DIRECTIONS 2016, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- ALL SIGN ASSEMBLIES TO BE INSTALLED WITH A MINIMUM CLEARANCE OF 450mm FROM THE EDGE OF SIGN FACE TO THE KERB FACE.

GENERAL KEY:

- [Grid Pattern] NEW PCC BLISTER TACTILE PAVING
- [Blue Dashed Line] NEW PCC TRAMLINE TACTILE PAVING
- [Blue Solid Line] NEW PCC MARSHALLS DEMARCATION PAVING
- [Red Dashed Line] NEW PCC SINUSOIDAL KERB/RAMP SYSTEM
- [Black Dashed Line] NEW GRANITE KERB LINE
- [H on Post] NEW/RE-ERECTED SIGN FACE MOUNTED ON POST
- [H on Column] NEW/RE-ERECTED SIGN FACE MOUNTED ON LIGHTING COLUMN
- [H on Bollard] NEW MINI ENSIGN BOLLARD
- [Bollard] RELOCATED BUS STOP POLE AND SIGNS
- [Red Dashed Line] SCHEME EXTENTS

SIGNS & ROADMARKINGS KEY:

1004 TRAFFIC SIGNS REGULATIONS AND GENERAL DIRECTIONS REFERENCE NUMBER TO STANDARD (NON-BRACKETED) DIMENSIONS UNLESS NOTED OTHERWISE.

(P-XX) SIGN REFERENCE NUMBER FOR PROPOSED SIGNS TO BE INSTALLED AT THE POSITION SHOWN (REFER TO NOTE 4)

(B-X) SIGN REFERENCE FOR MINI ENSIGN BOLLARD MOUNTED SIGN. (REFER TO NOTE 4)

C4	23.11.18	SIGNS FIXING FOR P06-P09 AND DENMARK ST ROAD MARKINGS AMENDED	PT	PE	CC
C3	25.10.18	CONSTRUCTION ISSUE	PT	PE	CC
C2	01.08.18	WHOLE OF ISLAND RE KERBED AND ADJACENT ROAD MARKINGS RENEWED. SHARED USE AREA INCREASED	PT	PE	CC
C1	23.07.18	DRAFT FOR COMMENT	PT	PE	CC

Rev.	Date	Description	By	Chk'd	App'd

Drawing Status: **FIT FOR CONSTRUCTION APPROVAL** Suitability: **S4**

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Client:

Project Title: **KINGSTON MINI HOLLAND LOT 2**

Drawing Title: **PENRHYN ROAD DETAILED DESIGN ROAD MARKINGS AND SIGNS SHEET 1 OF 3**

Scale	1:200	Designed	PT	Drawn	PT	Checked	PE	Authorised	CC
Original Size	A1	Date	23.07.18	Date	23.07.18	Date	23.07.18	Date	23.07.18

Drawing Number: MHL2 - ATK - HSN - PYN - DR - D - 0001
Project Ref. No.: 5141484
Revision: C4

Location: [Type] [Role] [Number]

100
Millimetres
10
0

DO NOT SCALE

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

CONSTRUCTION

UNIVERSITY AND COURT ARE IN THE VICINITY EXPECT HIGH AND VULNERABLE PEDESTRIAN FLOW

MAINTENANCE/CLEANING

UNIVERSITY AND COURT ARE IN THE VICINITY EXPECT HIGH AND VULNERABLE PEDESTRIAN FLOW

DECOMMISSIONING/DEMOLITION

UNIVERSITY AND COURT ARE IN THE VICINITY EXPECT HIGH AND VULNERABLE PEDESTRIAN FLOW

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

NOTES:

- IT IS THE CONTRACTORS RESPONSIBILITY TO CHECK THE LOCATION OF THE EXISTING STATUTORY SERVICES PRIOR TO CONSTRUCTION. PARTICULAR ATTENTION IS DRAWN TO THE "NEW ROADS AND STREET WORKS ACT 1991".
- REFER TO THE DRAWINGS REGISTER FOR THE FULL LIST OF DETAILED DRAWINGS.
- REFER TO SITE CLEARANCE DRAWINGS RBKMH-ATK-HSC-DR-D-0001 TO RBKMH-ATK-HSC-DR-D-0003 FOR LOCATION OF EXISTING SIGNS.

SIGN REF	SIGN TYPE	REMOVE TO STORE (S) OR TIP (T)	PROPOSED SIGN REF	CLEARANCE DETAILS	ILLUMINATED	DISCONNECTION DETAIL	POLE DETAIL
R-01	NO LOADING AT ANY TIME	T	N/A	REMOVE POLE AND SIGN AND TAKE TO CONTRACTORS TIP	N		REMOVE POLE TO CONTRACTORS TIP
R-02_1	NO LOADING AT ANY TIME	T	N/A	TAKE DOWN SIGN FROM LIGHTING COLUMN AND REMOVE TO CONTRACTORS TIP	N		
R-02_2	OPERATION ROAD RUNNER	S	P-01	TAKE DOWN SIGN FROM LIGHTING COLUMN AND SET ASIDE FOR RE USE	N		
R-02_3	SPEED CAMERA SIGN	S	P-02	TAKE DOWN SIGN FROM LIGHTING COLUMN AND SET ASIDE FOR RE USE	N		
R-02_4	ANTOINETTE HOTEL	S	P-03	TAKE DOWN SIGN FROM LIGHTING COLUMN AND SET ASIDE FOR RE USE	N		
R-02_5	STANLEY PICKER GALLERY	S	P-04	TAKE DOWN SIGN FROM LIGHTING COLUMN AND SET ASIDE FOR RE USE	N		
R-03_1	NO LOADING AT ANY TIME	T	N/A	TAKE DOWN SIGN FROM LIGHTING COLUMN 9 AND REMOVE TO CONTRACTORS TIP	N		
R-03_2	RADIO SIGN	S	P-05	TAKE DOWN SIGN FROM LIGHTING COLUMN 9 AND SET ASIDE FOR RE USE	N		
R-04_1	WEIGHT LIMIT ROUNDAL	S	P-10	TAKE DOWN SIGN FROM POLE AND SET ASIDE FOR RE USE	Y	DISCONNECT ELECTRICAL SUPPLY AND MAKE SAFE	REMOVE POLE AND LANTERN TO CONTRACTORS TIP
R-04_2	WEIGHT LIMIT PLATE	S	P-11	TAKE DOWN SIGN FROM POLE AND SET ASIDE FOR RE USE	Y		
R-04_3	ONE WAY ARROW	S	P-12	TAKE DOWN SIGN FROM POLE AND SET ASIDE FOR RE USE	Y		
R-05	ONE WAY ARROW	S	P-13	TAKE DOWN SIGN FROM POLE AND SET ASIDE FOR RE USE	Y	DISCONNECT ELECTRICAL SUPPLY AND MAKE SAFE	REMOVE POLE AND LANTERN TO CONTRACTORS TIP
R-06	NO LOADING AT ANY TIME	T	N/A	TAKE DOWN SIGN FROM LIGHTING COLUMN 12 AND REMOVE TO CONTRACTORS TIP	N		
R-07	NO LOADING AT ANY TIME	T	N/A	TAKE DOWN SIGN FROM LIGHTING COLUMN 14 AND REMOVE TO CONTRACTORS TIP	N		
R-08	NO WAITING/NO LOADING AT ANY TIME	T	N/A	REMOVE POLE AND SIGN AND TAKE TO CONTRACTORS TIP	N		REMOVE POLE TO CONTRACTORS TIP
R-09	NO WAITING/NO LOADING AT ANY TIME	T	N/A	TAKE DOWN SIGN FROM LIGHTING COLUMN 16 AND REMOVE TO CONTRACTORS TIP	N		
R-10	LIMITED WAITING SIGNS	T	N/A	TAKE DOWN SIGN AND REMOVE TO TIP	!!	SHOULD THIS POLE BE REPLACED WITH MINI PILLAR	
R-11_1	NO ENTRY ROUNDAL	S	P-15	TAKE DOWN SIGN AND SET ASIDE FOR RE USE. REMOVE POLE TO CONTRACTORS TIP	Y	DISCONNECT ELECTRICAL SUPPLY AND MAKE SAFE	REMOVE POLE AND LANTERN TO CONTRACTORS STORE
R-11_2	PARKING ZONE	S	P-16	TAKE DOWN SIGN AND SET ASIDE FOR RE USE	N		
R-11_3	SIGN PLATE	S	P-17	TAKE DOWN SIGN AND SET ASIDE FOR RE USE	N		
R-11_4	BUS LANE	T	N/A	TAKE DOWN SIGN AND REMOVE TO TIP	N		
R-12	NO ENTRY ROUNDAL	S	P-18	TAKE DOWN SIGN AND SET ASIDE FOR RE USE. REMOVE POLE TO CONTRACTORS TIP	Y	DISCONNECT ELECTRICAL SUPPLY AND MAKE SAFE	REMOVE POLE AND LANTERN TO CONTRACTORS TIP
R-13	LIMITED WAITING/NO LOADING	T	N/A	REMOVE POLE AND SIGN AND TAKE TO CONTRACTORS TIP	N		REMOVE POLE TO CONTRACTORS TIP
R-14	NO STOPPING EXCEPT BUSES	S	P-19	SIGN TO BE TAKEN DOWN FROM BUS STOP POLE AND SET ASIDE FOR RE USE	N		
R-15	LIMITED WAITING/NO LOADING	T	N/A	REMOVE POLE AND SIGN AND TAKE TO CONTRACTORS TIP	N		REMOVE POLE TO CONTRACTORS TIP
R-16	LIMITED WAITING/NO LOADING	T	N/A	TAKE DOWN SIGN FROM LIGHTING COLUMN 21 AND REMOVE TO CONTRACTORS TIP	N		
R-17	LIMITED WAITING/NO LOADING	T	N/A	REMOVE POLE AND SIGN AND TAKE TO CONTRACTORS TIP	N		
R-18	LIMITED WAITING COACH LORRY	T	N/A	TAKE DOWN SIGN FROM LIGHTING COLUMN 23 AND REMOVE TO CONTRACTORS TIP	N		
R-19	NO STOPPING EXCEPT BUSES	S	T.B.C.	SIGN TO BE TAKEN DOWN FROM BUST STOP POLE AND SET ASIDE FOR RE USE	N		
R-20	LIMITED WAITING/NO LOADING	T	N/A	REMOVE POLE AND SIGN AND TAKE TO CONTRACTORS TIP	N		REMOVE POLE TO CONTRACTORS TIP
R-21	PERMIT PARKING	T	N/A	REMOVE POLE AND SIGN AND TAKE TO CONTRACTORS TIP	N		REMOVE POLE TO CONTRACTORS TIP
R-22	PERMIT PARKING	T	N/A	REMOVE POLE AND SIGN AND TAKE TO CONTRACTORS TIP	N		REMOVE POLE TO CONTRACTORS TIP
R-23_1	NO RIGHT TURN	S	P-22	TAKE DOWN SIGN FROM LIGHTING COLUMN 52 AND SET ASIDE FOR RE USE	Y		
R-23_2	NO LEFT TURN	S	P-21	TAKE DOWN SIGN FROM LIGHTING COLUMN 52 AND SET ASIDE FOR RE USE	Y		
R-23_3	GOODS VEHICLE LOADING	S	P-23	TAKE DOWN SIGN FROM LIGHTING COLUMN 52 AND SET ASIDE FOR RE USE	N		
R-24	PAY AND DISPLAY	T	N/A	REMOVE POLE AND SIGN AND TAKE TO CONTRACTORS TIP	N		REMOVE POLE TO CONTRACTORS TIP
R-25_1	NO ENTRY ROUNDAL	S	P-24	TAKE DOWN SIGN AND SET ASIDE FOR REUSE. REMOVE POLE TO CONTRACTORS TIP	Y	DISCONNECT ELECTRICAL SUPPLY AND MAKE SAFE	REMOVE POLE AND LANTERN TO CONTRACTORS TIP
R-25_2	2 WAY TRIANGLE	S	P-25	TAKE DOWN SIGN AND SET ASIDE FOR REUSE	N		
R-26	NO LOADING	T	N/A	REMOVE POLE AND SIGN AND TAKE TO CONTRACTORS TIP	N		
R-27_1	NO ENTRY ROUNDAL	S	P-26	TAKE DOWN SIGN AND SET ASIDE FOR REUSE. REMOVE POLE TO CONTRACTORS TIP	Y	DISCONNECT ELECTRICAL SUPPLY AND MAKE SAFE	REMOVE POLE AND LANTERN TO CONTRACTORS TIP
R-27_2	NO LOADING	T	N/A	TAKE DOWN SIGN AND REMOVE TO CONTRACTORS TIP	N		
R-27_3	GIVE WAY	S	P-27	TAKE DOWN SIGN AND SET ASIDE FOR REUSE	N		
R-28	PAY AND DISPLAY	T	N/A	TAKE DOWN SIGN FROM LIGHTING COLUMN AND REMOVE TO CONTRACTORS TIP	N		
R-29	PAY AND DISPLAY	S	P-28	REMOVE SIGN AND SET ASIDE FOR RE USE. REMOVE POLE TO CONTRACTORS TIP	N		REMOVE POLE TO CONTRACTORS TIP
R-30_1	30MPH	S	P-29	TAKE DOWN SIGN AND SET ASIDE FOR REUSE. REMOVE POLE TO CONTRACTORS TIP	Y	DISCONNECT ELECTRICAL SUPPLY AND MAKE SAFE	REMOVE POLE AND LANTERN TO CONTRACTORS TIP
R-30_2	20MPH	S	P-30	TAKE DOWN SIGN AND SET ASIDE FOR REUSE.	Y		
R-31_1	PAY AND DISPLAY	S	P-32	TAKE DOWN SIGN AND SET ASIDE FOR REUSE. REMOVE POLE TO CONTRACTORS TIP	N		REMOVE POLE TO CONTRACTORS TIP
R-31_2	PAY BY PHONE	S	P-33	TAKE DOWN SIGN AND SET ASIDE FOR RE USE	N		
R-32	GOODS VEHICLES LOADING	S	P-31	TAKE DOWN SIGN AND SET ASIDE FOR REUSE. REMOVE POLE TO CONTRACTORS TIP	N		
R-33	NO STOPPING EXCEPT BUSES	S	P-34	SIGN TO BE TAKEN DOWN FROM BUST STOP POLE AND SET ASIDE FOR RE USE	N		
R-34_1	DIRECTION SIGN	S	P-35	TAKE DOWN SIGN FROM LIGHTING COLUMN 10 AND SET ASIDE FOR RE USE	N		
R-34_2	LIMITED WAITING LORRIES AND COACHES	T	N/A	TAKE DOWN SIGN FROM LIGHTING COLUMN 10 AND REMOVE TO CONTRACTORS TIP	N		
R-35	LIMITED WAITING/NO LOADING	T	N/A	TAKE DOWN SIGN FROM LIGHTING COLUMN 24 AND REMOVE TO CONTRACTORS TIP	N		
R-36_1	LIMITED WAITING/NO LOADING	T	N/A	TAKE DOWN SIGN AND REMOVE TO CONTRACTORS TIP	N		
R-37	LIMITED WAITING/NO LOADING	T	N/A	TAKE DOWN SIGN FROM LIGHTING COLUMN 22 AND REMOVE TO CONTRACTORS TIP	N		
R-38	NO STOPPING EXCEPT BUSES	S	P-36	SIGN TO BE TAKEN DOWN FROM BUST STOP POLE AND SET ASIDE FOR RE USE	N		
R-39	LIMITED WAITING/NO LOADING	T	N/A	REMOVE POLE AND SIGN AND TAKE TO CONTRACTORS TIP	N		REMOVE POLE TO CONTRACTORS TIP
R-40	BUS LANE	S	P-37	TAKE DOWN SIGN AND POLE. SET SIGN ASIDE FOR RE USE. REMOVE POLE TO CONTRACTORS TIP	N		REMOVE POLE TO CONTRACTORS TIP
R-41	LIMITED WAITING/NO LOADING	T	N/A	TAKE DOWN SIGN FROM LIGHTING COLUMN 20 AND REMOVE TO CONTRACTORS TIP	N		
R-42	LIMITED WAITING/NO LOADING	T	N/A	REMOVE POLE AND SIGN AND TAKE TO CONTRACTORS TIP	N		REMOVE POLE TO CONTRACTORS TIP
R-43	LIMITED WAITING/NO LOADING	T	N/A	TAKE DOWN SIGN FROM POST AND REMOVE TO CONTRACTORS TIP	N		
R-44	NO STOPPING EXCEPT BUSES	T	N/A	SIGN TO BE TAKEN DOWN FROM BUST STOP POLE AND REMOVE TO TIP	N		
R-45	NO STOPPING EXCEPT BUSES	T	N/A	SIGN TO BE TAKEN DOWN FROM BUST STOP POLE AND REMOVE TO TIP	N		
R-46	NO LOADING	T	N/A	TAKE DOWN SIGN FROM LIGHTING COLUMN 13 AND REMOVE TO CONTRACTORS TIP	N		
R-47_1	ROUTE FOR LONG VEHICLES	S	P-06	TAKE DOWN SIGN AND POLE. SET SIGN ASIDE FOR RE USE. REMOVE POLE TO CONTRACTORS TIP	N		REMOVE POLE TO CONTRACTORS TIP
R-47_2	PARKING SIGN	S	P-07	TAKE DOWN SIGN AND SET ASIDE FOR RE USE	N		
R-47_3	PARKING SIGN	S	P-08	TAKE DOWN SIGN AND SET ASIDE FOR RE USE	N		
R-47_4	DEAD END	S	P-09	TAKE DOWN SIGN AND SET ASIDE FOR RE USE	N		
R-48_1	BUS LANE	T	N/A	REMOVE POLE AND SIGN AND TAKE TO CONTRACTORS TIP	N		REMOVE POLE TO CONTRACTORS TIP
R-48_2	BUS LANE CAMERA	T	N/A	TAKE DOWN SIGN AND REMOVE TO CONTRACTORS TIP	N		
R-49	NO LOADING	T	N/A	TAKE DOWN SIGN FROM LIGHTING COLUMN 10 AND REMOVE TO CONTRACTORS TIP	N		
R-50_1	END OF BUS LANE	T	N/A	TAKE DOWN SIGN FROM LIGHTING COLUMN 8 AND REMOVE TO CONTRACTORS TIP	N		
R-50_2	NO LOADING	T	N/A	TAKE DOWN SIGN FROM LIGHTING COLUMN 8 AND REMOVE TO CONTRACTORS TIP	N		
R-51	30MPH ROUNDAL	S	P-27	TAKE DOWN SIGN FROM LIGHTING COLUMN 8 AND REMOVE TO CONTRACTORS TIP	N		

C2	25.10.18	CONSTRUCTION ISSUE		PT	PE	CC
C1	23.07.18	DRAFT FOR COMMENT		PT	PE	CC
Rev.	Date	Description		By	Chk'd	App'd

Drawing Status: **FIT FOR CONSTRUCTION APPROVAL** Suitability: **S4**

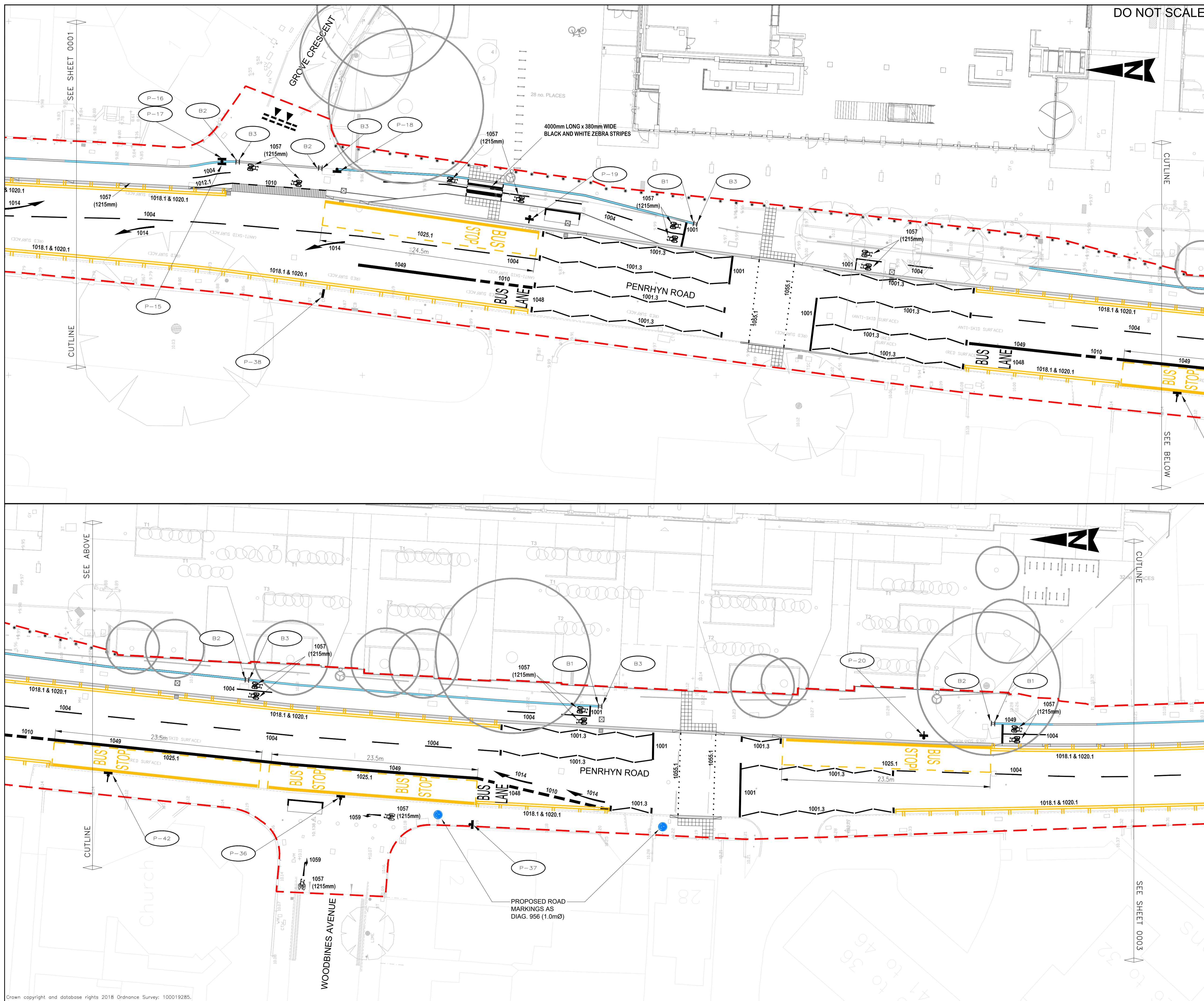
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Client: **KINGSTON MINI HOLLAND LOT 2**

Drawing Title: **PENRHYN ROAD
 DETAILED DESIGN
 EXISTING SIGN SCHEDULE**

Scale	Designed	Drawn	Checked	Authorised
N.T.S.	PT	PT	PE	CC
Original Size	Date	Date	Date	Date
A1	23.07.18	23.07.18	23.07.18	23.07.18
Drawing Number	Originator	Volume	Project Ref. No.	
HA PIN	MHL2 - ATK	- HSN	5141484	
	PYN - DR - D	- 0004	Revision	C2
Location	Type	Role	Number	



DO NOT SCALE

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

- CONSTRUCTION**
UNIVERSITY AND COURT ARE IN THE VICINITY EXPECT HIGH AND VULNERABLE PEDESTRIAN FLOW
- MAINTENANCE/CLEANING**
UNIVERSITY AND COURT ARE IN THE VICINITY EXPECT HIGH AND VULNERABLE PEDESTRIAN FLOW
- DECOMMISSIONING/DEMOLITION**
UNIVERSITY AND COURT ARE IN THE VICINITY EXPECT HIGH AND VULNERABLE PEDESTRIAN FLOW

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

- NOTES:**
- IT IS THE CONTRACTORS RESPONSIBILITY TO CHECK THE LOCATION OF THE EXISTING STATUTORY SERVICES PRIOR TO CONSTRUCTION. PARTICULAR ATTENTION IS DRAWN TO THE "NEW ROADS AND STREET WORKS ACT 1991".
 - REFER TO THE DRAWINGS REGISTER FOR THE FULL LIST OF DETAILED DRAWINGS.
 - ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
 - REFER TO THE PROPOSED TRAFFIC SIGNS & SIGN SCHEDULE DRAWING RBKMH-ATK-HSN-PYN-DR-D-0005 FOR PROPOSED SIGNS AND SCHEDULES
 - ALL DIMENSIONS ARE IN METRES UNLESS SHOWN OTHERWISE.
 - ROAD MARKINGS SHALL BE TO THE STANDARD (NON-BRACKETED) DIMENSIONS SHOWN IN THE TRAFFIC SIGNS REGULATIONS AND GENERAL DIRECTIONS 2016, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
 - ALL SIGN ASSEMBLIES TO BE INSTALLED WITH A MINIMUM CLEARANCE OF 450mm FROM THE EDGE OF SIGN FACE TO THE KERB FACE.

- GENERAL KEY:**
- [Symbol] NEW PCC BLISTER TACTILE PAVING
 - [Symbol] NEW PCC TRAMLINE TACTILE PAVING
 - [Symbol] NEW PCC MARSHALLS DEMARCATION PAINT
 - [Symbol] NEW PCC SINUSOIDAL KERB/RAMP SYSTEM
 - [Symbol] NEW GRANITE KERB LINE
 - [Symbol] NEW/RE-ERECTED SIGN FACE MOUNTED ON POST/POSTS
 - [Symbol] NEW/RE-ERECTED SIGN FACE MOUNTED ON LIGHTING COLUMN
 - [Symbol] NEW MINI ENSIGN BOLLARD
 - [Symbol] RELOCATED BUS STOP POLE AND SIGNS
 - [Symbol] SCHEME EXTENTS

- SIGNS & ROADMARKINGS KEY:**
- 1004 TRAFFIC SIGNS REGULATIONS AND GENERAL DIRECTIONS REFERENCE NUMBER TO STANDARD (NON-BRACKETED) DIMENSIONS UNLESS NOTED OTHERWISE.
 - P-XX SIGN REFERENCE NUMBER FOR PROPOSED SIGNS TO BE INSTALLED AT THE POSITION SHOWN (REFER TO NOTE 4)
 - BX SIGN REFERENCE FOR MINI ENSIGN BOLLARD MOUNTED SIGN. (REFER TO NOTE 4)

Rev.	Date	Description	By	Chk'd	App'd
C4	23.11.18	CHANGES MADE ON SHEET 1	PT	PE	CC
C3	25.10.18	CONSTRUCTION ISSUE	PT	PE	CC
C2	01.08.18	ROUNDALS ON FOOTWAY REVISED	PT	PE	CC
C1	20.07.18	DRAFT FOR COMMENT	PT	PE	CC

Rev.	Date	Description	By	Chk'd	App'd
C4	23.11.18	CHANGES MADE ON SHEET 1	PT	PE	CC
C3	25.10.18	CONSTRUCTION ISSUE	PT	PE	CC
C2	01.08.18	ROUNDALS ON FOOTWAY REVISED	PT	PE	CC
C1	20.07.18	DRAFT FOR COMMENT	PT	PE	CC

Drawing Status: **FIT FOR CONSTRUCTION APPROVAL** S4

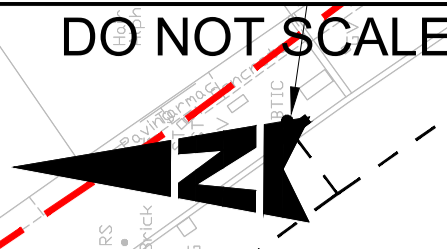
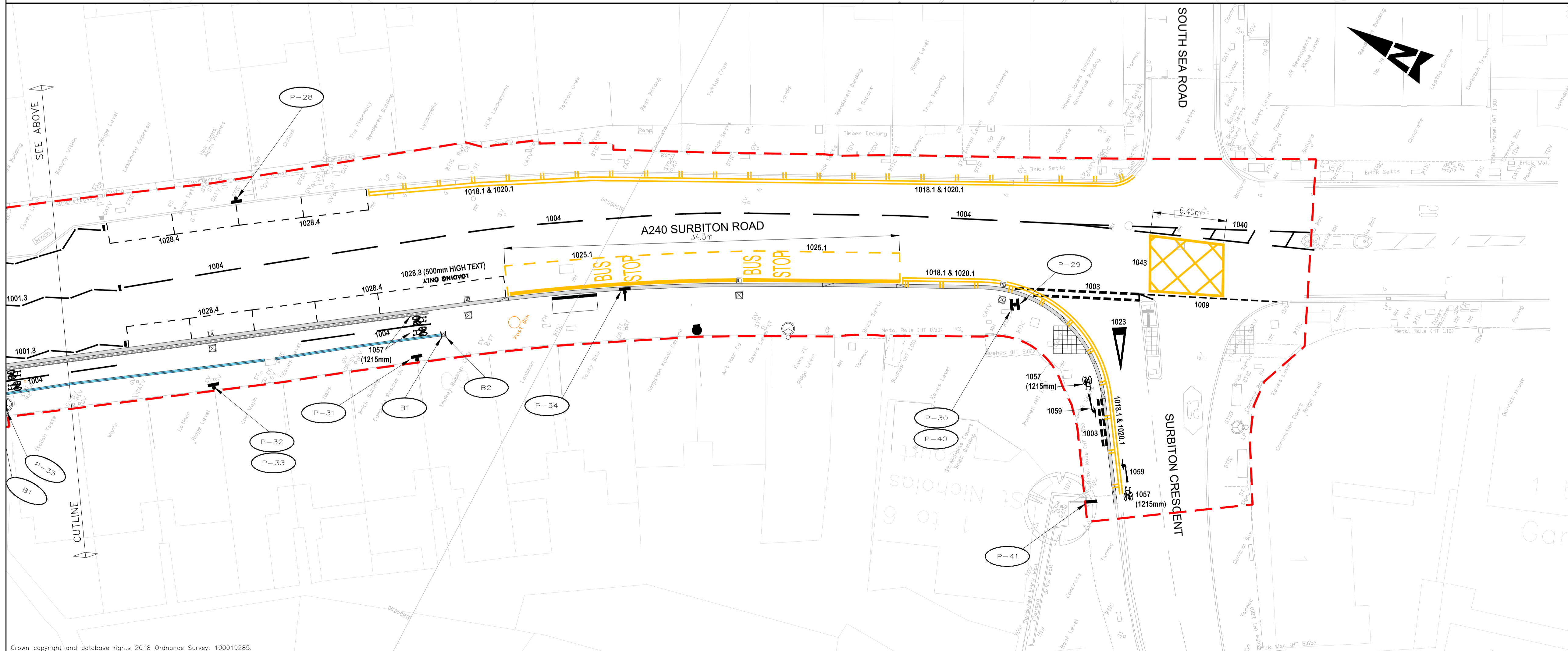
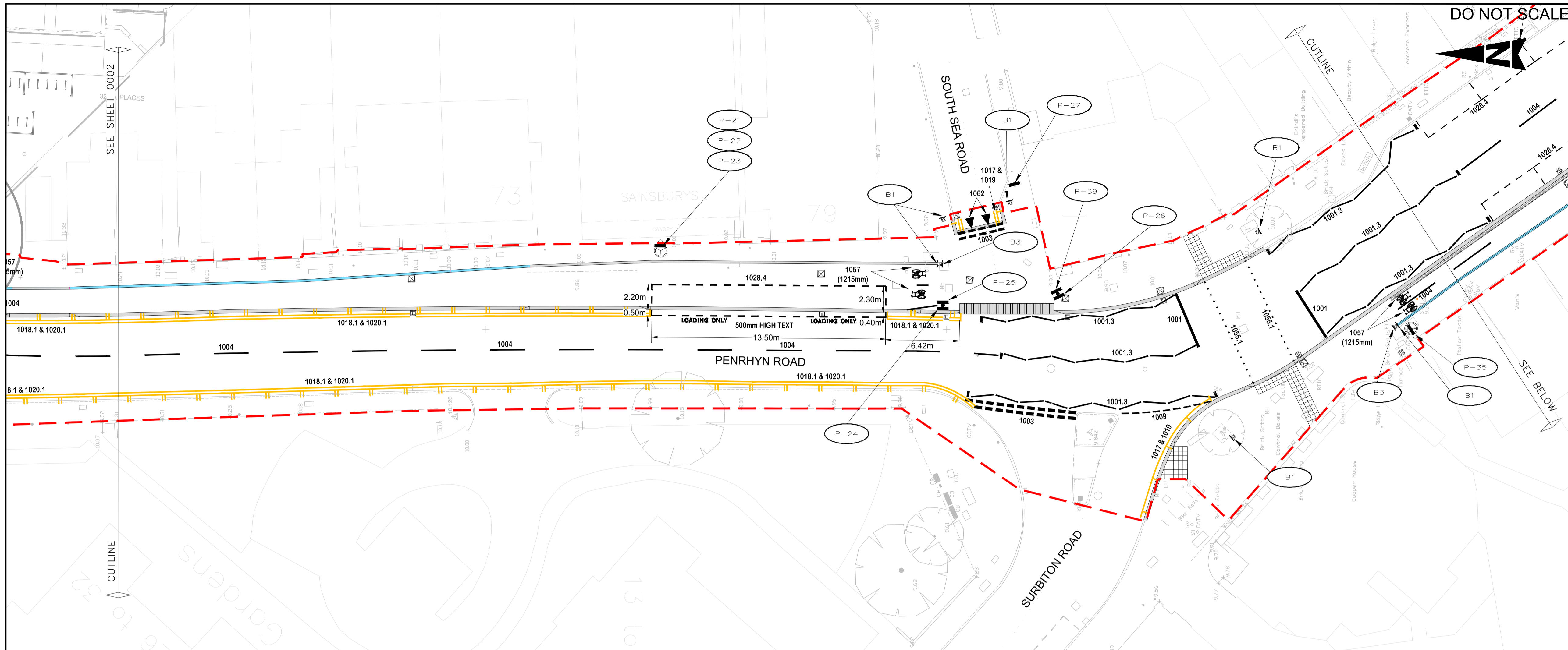
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Client: **KINGSTON MINI HOLLAND LOT 2**

Project Title: **PENRHYN ROAD DETAILED DESIGN ROAD MARKINGS AND SIGNS SHEET 2 OF 3**

Scale	Designed	Drawn	Checked	Authorised
1:200	PT	PT	PE	CC
Original Size	Date	Date	Date	Date
A1	23.07.18	23.07.18	23.07.18	23.07.18
Drawing Number	Originator	Volume	Project Ref. No.	
HA PIN	MHL2 - ATK	- HSN -	5141484	
	PYN - DR - D	- 0002	Revision	
Location	Type	Role	Number	
			C4	



SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

CONSTRUCTION

UNIVERSITY AND COURT ARE IN THE VICINITY EXPECT HIGH AND VULNERABLE PEDESTRIAN FLOW

MAINTENANCE/CLEANING

UNIVERSITY AND COURT ARE IN THE VICINITY EXPECT HIGH AND VULNERABLE PEDESTRIAN FLOW

DECOMMISSIONING/DEMOLITION

UNIVERSITY AND COURT ARE IN THE VICINITY EXPECT HIGH AND VULNERABLE PEDESTRIAN FLOW

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

NOTES:

- IT IS THE CONTRACTORS RESPONSIBILITY TO CHECK THE LOCATION OF THE EXISTING STATUTORY SERVICES PRIOR TO CONSTRUCTION, PARTICULAR ATTENTION IS DRAWN TO THE "NEW ROADS AND STREET WORKS ACT 1991".
- REFER TO THE DRAWINGS REGISTER FOR THE FULL LIST OF DETAILED DRAWINGS.
- ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
- REFER TO THE PROPOSED TRAFFIC SIGNS & SIGN SCHEDULE DRAWING RBKMH-ATK-HSN-PYN-DR-D-0005 FOR PROPOSED SIGNS AND SCHEDULES
- ALL DIMENSIONS ARE IN METRES UNLESS SHOWN OTHERWISE.
- ROAD MARKINGS SHALL BE TO THE STANDARD (NON-BRACKETED) DIMENSIONS SHOWN IN THE TRAFFIC SIGNS REGULATIONS AND GENERAL DIRECTIONS 2016, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- ALL SIGN ASSEMBLIES TO BE INSTALLED WITH A MINIMUM CLEARANCE OF 450mm FROM THE EDGE OF SIGN FACE TO THE KERB FACE.

GENERAL KEY:

- NEW PCC BLISTER TACTILE PAVING
- NEW PCC TRAMLINE TACTILE PAVING
- NEW PCC MARSHALLS DEMARCATION PAVING
- NEW PCC SINUSOIDAL KERB/RAMP SYSTEM
- NEW GRANITE KERB LINE
- NEW/RE-ERECTED SIGN FACE MOUNTED ON POST
- NEW/RE-ERECTED SIGN FACE MOUNTED ON LIGHTING COLUMN
- NEW MINI ENSIGN BOLLARD
- RELOCATED BUS STOP POLE AND SIGNS
- SCHEME EXTENTS

SIGNS & ROADMARKINGS KEY:

- 1004 TRAFFIC SIGNS REGULATIONS AND GENERAL DIRECTIONS REFERENCE NUMBER TO STANDARD (NON-BRACKETED) DIMENSIONS UNLESS NOTED OTHERWISE.
- SIGN REFERENCE NUMBER FOR PROPOSED SIGNS TO BE INSTALLED AT THE POSITION SHOWN (REFER TO NOTE 4)
- SIGN REFERENCE FOR MINI ENSIGN BOLLARD MOUNTED SIGN. (REFER TO NOTE 4)

C4	23.11.18	CHANGES MADE ON SHEET 1	PT	PE	CC
C3	25.10.18	CONSTRUCTION ISSUE	PT	PE	CC
C2	01.08.18	ADDITIONAL SIGNAGE SHOWN	PT	PE	CC
C1	20.07.18	DRAFT FOR COMMENT	PT	PE	CC

Rev.	Date	Description	By	Chk'd	App'd

Drawing Status: **FIT FOR CONSTRUCTION APPROVAL** Suitability: **S4**

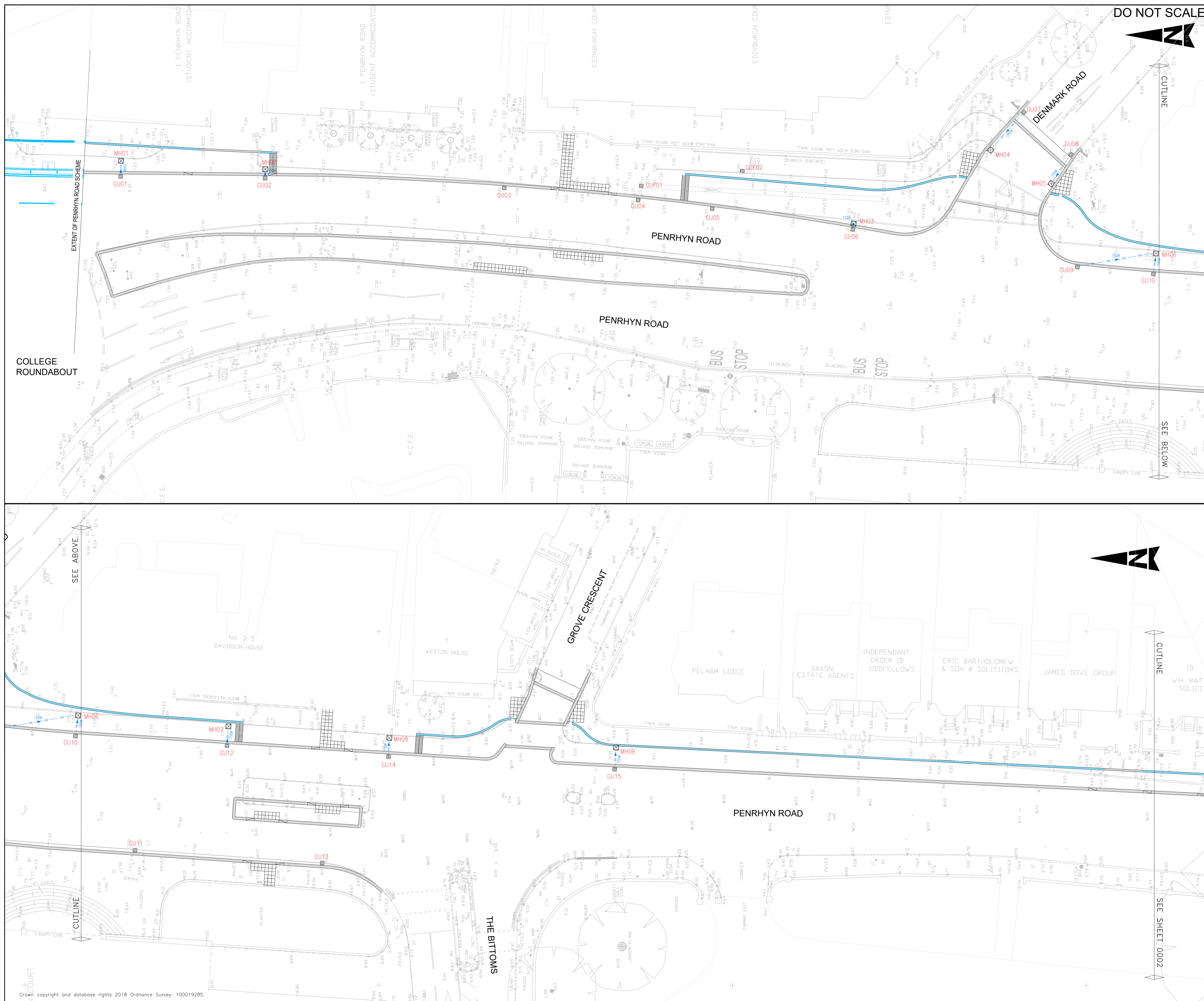
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Project Title: **KINGSTON MINI HOLLAND LOT 2**

Drawing Title: **PENRHYN ROAD
ROAD MARKINGS AND SIGNS
SHEET 3 OF 3**

Scale	1:200	Designed	PT	Drawn	PT	Checked	PE	Authorised	CC
Original Size	A1	Date	23.07.18	Date	23.07.18	Date	23.07.18	Date	23.07.18
Drawing Number	MHL2	Originator	ATK	Volume	HSN	Project Ref. No.	5141484	Revision	C4
Location	PYN	Type	DR	Role	D	Number	0003		



DO NOT SCALE

- NOTES:**
- IT IS THE CONTRACTORS RESPONSIBILITY TO CHECK THE LOCATION OF THE EXISTING STATUTORY SERVICES PRIOR TO CONSTRUCTION, PARTICULAR ATTENTION IS DRAWN TO THE "NEW ROADS AND STREET WORKS ACT 1991".
 - REFER TO THE DRAWINGS REGISTER FOR THE FULL LIST OF DETAILED DRAWINGS.
 - ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
 - DRAINAGE PROPOSALS BASED ON ABOVE GROUND AND DESKTOP STUDIES. CCTV SURVEYS NOT OBTAINED AT THE DETAILED DESIGN STAGE. WHERE POSSIBLE EXISTING LATERALS AND CARRIERS SHOULD BE RE-USED TO AVOID NEW CONNECTIONS TO THAMES WATER SEWERS.
 - APPROPRIATE INVERT LEVELS AND PIPE GRADIENTS (min 1:200) TO BE CONFIRMED ON SITE BY THE CONTRACTOR AS PART OF THE PRE-CONSTRUCTION SURVEYS AND INVESTIGATIONS.
 - ALL EXISTING GULLY CONNECTIONS TO BE CLEANED AND CLEARED OF OBSTRUCTIONS PRIOR TO REUSE. IF CONNECTION IS DAMAGED BEYOND REPAIR THEN A NEW CONNECTION IS TO BE PROVIDED.
 - ALL NEW CARRIAGEWAY GULLIES GRATES AND FRAMES TO BE CYCLE FRIENDLY, "DUREY CASTINGS" PEDESTRIANISED HEAVY DUTY BS EN 124 CLASS D400 HINGED GULLY GRATE & FRAME, OR SIMILAR.
 - ALL NEW FOOTWAY GULLIES GRATES AND FRAMES TO BE CYCLE FRIENDLY, "DUREY CASTINGS" PEDESTRIANISED CLASS C250 HINGED GULLY GRATE & FRAME, OR SIMILAR.
 - CARRIAGEWAY GULLIES TO BE INSTALLED TO LOHAC DETAIL 500.12.
 - TRENCHING AND BEDDING DETAILS AS PER LOHAC DETAIL 500.01.
 - CATCHPITS TO BE CONSTRUCTED TO HCD F11. CATCHPIT REQUIREMENTS TO BE DETERMINED ON SITE BY THE CONTRACTOR AND AGREED WITH THE SITE ENGINEER. COVER AND FRAME TO BE D400 IN CARRIAGEWAYS AND C250 IN FOOTWAYS.
 - LAYOUT SHOWN IN BLUE IS THE WHEATFIELD WAY DESIGN.

- DRAINAGE KEY:**
- NEW PREFORMED CONCRETE TRAPPED GULLY POT (TO NOTE 9) WITH CLASS D400 GRATING AND FRAME (TO NOTE 7). REFER TO DRAINAGE SCHEDULES FOR COVER LEVELS AND COORDINATES.
 - NEW FOOTWAY GULLY WITH CLASS C250 GRATING AND FRAME (TO NOTE 8) TO DETAIL FC1. REFER TO DRAINAGE SCHEDULES FOR COVER LEVELS AND COORDINATES.
 - NEW CLAY VITRIFIED DRAINAGE PIPE WITH TYPE Z SURROUND AND TRENCH TO NOTE 10. PIPE DIAMETER AND DIRECTION OF FLOW SHOWN.
 - NEW CATCHPIT (TO NOTE 11) TO BE CONSTRUCTED IN PLACE OF EXISTING GULLY. EXISTING OUTFLOW/LATERAL TO BE RETAINED AND RE-USED.
 - NEW KERB

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

CONSTRUCTION

UNIVERSITY AND COURT ARE IN THE VICINITY EXPECT HIGH AND VULNERABLE PEDESTRIAN FLOW

MAINTENANCE/CLEANING

UNIVERSITY AND COURT ARE IN THE VICINITY EXPECT HIGH AND VULNERABLE PEDESTRIAN FLOW

DECOMMISSIONING/DEMOLITION

UNIVERSITY AND COURT ARE IN THE VICINITY EXPECT HIGH AND VULNERABLE PEDESTRIAN FLOW

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

Rev.	Date	Description	By	Chk'd	App'd
C2	25.10.18	CONSTRUCTION ISSUE		PT	PE CC
C1	23.07.18	DRAFT FOR COMMENT		PT	PE CC

Drawing Status: **FIT FOR CONSTRUCTION APPROVAL** Suitability: **S4**

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Client: THE ROYAL BOROUGH OF KINGSTON UPON THAMES

Project Title: **KINGSTON MINI HOLLAND LOT 2**

Drawing Title: **PENRHYN ROAD DETAILED DESIGN DRAINAGE SHEET 1 OF 3**

Scale	Designed	Drawn	Checked	Authorised
1:200	PT	PT	PE	CC
Original Size	Date	Date	Date	Date
A1	20/07/2018	20/07/2018	20/07/2018	20/07/2018
Drawing Number	Originator	Volume	Project Ref. No.	
MHL2	- ATK -	- HDG -	5141484	
PYN	- DR - D -	- 0001		C2
Location	Type	Role	Number	



DO NOT SCALE

- NOTES:**
- IT IS THE CONTRACTORS RESPONSIBILITY TO CHECK THE LOCATION OF THE EXISTING STATUTORY SERVICES PRIOR TO CONSTRUCTION. PARTICULAR ATTENTION IS DRAWN TO THE 'NEW ROADS AND STREET WORKS ACT 1991'.
 - REFER TO THE DRAWINGS REGISTER FOR THE FULL LIST OF DETAILED DRAWINGS.
 - ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
 - DRAINAGE PROPOSALS BASED ON ABOVE GROUND AND DESKTOP STUDIES. CCTV SURVEYS NOT OBTAINED AT THE DETAILED DESIGN STAGE. WHERE POSSIBLE EXISTING LATERALS AND CARRIERS SHOULD BE RE-USED TO AVOID NEW CONNECTIONS TO THAMES WATER SEWERS.
 - APPROPRIATE INVERT LEVELS AND PIPE GRADIENTS (min 1:200) TO BE CONFIRMED ON SITE BY THE CONTRACTOR AS PART OF THE PRE-CONSTRUCTION SURVEYS AND INVESTIGATIONS.
 - ALL EXISTING GULLY CONNECTIONS TO BE CLEANED AND CLEARED OF OBSTRUCTIONS PRIOR TO REUSE. IF CONNECTION IS DAMAGED BEYOND REPAIR THEN A NEW CONNECTION IS TO BE PROVIDED.
 - ALL NEW CARRIAGEWAY GULLIES GRATES AND FRAMES TO BE CYCLE FRIENDLY, 'DUREY CASTINGS' PEDESTRIANISED HEAVY DUTY BS EN 124 CLASS D400 HINGED GULLY GRATE & FRAME', OR SIMILAR.
 - ALL NEW FOOTWAY GULLIES GRATES AND FRAMES TO BE CYCLE FRIENDLY, 'DUREY CASTINGS' PEDESTRIANISED CLASS C250 HINGED GULLY GRATE & FRAME', OR SIMILAR.
 - CARRIAGEWAY GULLIES TO BE INSTALLED TO LOHAC DETAIL 500.12.
 - TRENCHING AND BEDDING DETAILS AS PER LOHAC DETAIL 500.01.
 - CATCHPITS TO BE CONSTRUCTED TO HCD F11. CATCHPIT REQUIREMENTS TO BE DETERMINED ON SITE BY THE CONTRACTOR AND AGREED WITH THE SITE ENGINEER. COVER AND FRAME TO BE D400 IN CARRIAGEWAYS AND C250 IN FOOTWAYS.
 - LAYOUT SHOWN IN BLUE IS THE WHEATFIELD WAY DESIGN.

- DRAINAGE KEY:**
- NEW PREFORMED CONCRETE TRAPPED GULLY POT (TO NOTE 9) WITH CLASS D400 GRATING AND FRAME (TO NOTE 7). REFER TO DRAINAGE SCHEDULES FOR COVER LEVELS AND COORDINATES.
 - NEW FOOTWAY GULLY WITH CLASS C250 GRATING AND FRAME (TO NOTE 8) TO DETAIL FG1. REFER TO DRAINAGE SCHEDULES FOR COVER LEVELS AND COORDINATES.
 - NEW CLAY VITRIFIED DRAINAGE PIPE WITH TYPE Z SURROUND AND TRENCH TO NOTE 10. PIPE DIAMETER AND DIRECTION OF FLOW SHOWN.
 - NEW CATCHPIT (TO NOTE 11) TO BE CONSTRUCTED IN PLACE OF EXISTING GULLY. EXISTING OUTFLOW/LATERAL TO BE RETAINED AND RE-USED.
 - NEW KERB

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

CONSTRUCTION
UNIVERSITY AND COURT ARE IN THE VICINITY EXPECT HIGH AND VULNERABLE PEDESTRIAN FLOW

MAINTENANCE/CLEANING
UNIVERSITY AND COURT ARE IN THE VICINITY EXPECT HIGH AND VULNERABLE PEDESTRIAN FLOW

DECOMMISSIONING/DEMOLITION
UNIVERSITY AND COURT ARE IN THE VICINITY EXPECT HIGH AND VULNERABLE PEDESTRIAN FLOW

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

C2	25.10.18	CONSTRUCTION ISSUE	PT	PE	CC
C1	23.07.18	DRAFT FOR COMMENT	PT	PE	CC
Rev.	Date	Description	By	Chk'd	App'd

Drawing Status: **FIT FOR CONSTRUCTION APPROVAL** Suitability: **S4**

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Client: **KINGSTON MINI HOLLAND LOT 2**

Project Title: **PENRHYN ROAD DETAILED DESIGN DRAINAGE SHEET 2 OF 3**

Scale	1:200	Designed	PT	Drawn	PT	Checked	PE	Authorised	CC
Original Size	A1	Date	20/07/2018	Date	20/07/2018	Date	20/07/2018	Date	20/07/2018
Drawing Number	MHL2	Originator	ATK	Volume	HDG	Project Ref. No.	5141484	Revision	C2
HA PIN	PYN	Type	DR	Role	D	Number	0002		



DO NOT SCALE



- NOTES:**
- IT IS THE CONTRACTORS RESPONSIBILITY TO CHECK THE LOCATION OF THE EXISTING STATUTORY SERVICES PRIOR TO CONSTRUCTION, PARTICULAR ATTENTION IS DRAWN TO THE "NEW ROADS AND STREET WORKS ACT 1991".
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 - DRAINAGE PROPOSALS BASED ON ABOVE GROUND AND DESKTOP STUDIES. CCTV SURVEYS NOT OBTAINED AT THE DETAILED DESIGN STAGE. WHERE POSSIBLE EXISTING LATERALS AND CARRIERS SHOULD BE RE-USED TO AVOID NEW CONNECTIONS TO THAMES WATER SEWERS.
 - APPROPRIATE INVERT LEVELS AND PIPE GRADIENTS (min 1:200) TO BE CONFIRMED ON SITE BY THE CONTRACTOR AS PART OF THE PRE-CONSTRUCTION SURVEYS AND INVESTIGATIONS.
 - ALL EXISTING GULLY CONNECTIONS TO BE CLEANED AND CLEARED OF OBSTRUCTIONS PRIOR TO REUSE. IF CONNECTION IS DAMAGED BEYOND REPAIR THEN A NEW CONNECTION IS TO BE PROVIDED.
 - ALL NEW CARRIAGEWAY GULLIES GRATES AND FRAMES TO BE CYCLE FRIENDLY, "DUREY CASTINGS" PEDESTRIANISED HEAVY DUTY BS EN 124 CLASS D400 HINGED GULLY GRATE & FRAME, OR SIMILAR.
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 - CARRIAGEWAY GULLIES TO BE INSTALLED TO LOHAC DETAIL 500.12.
 - TRENCHING AND BEDDING DETAILS AS PER LOHAC DETAIL 500.01.
 - CATCHPITS TO BE CONSTRUCTED TO HCD F11. CATCHPIT REQUIREMENTS TO BE DETERMINED ON SITE BY THE CONTRACTOR AND AGREED WITH THE SITE ENGINEER. COVER AND FRAME TO BE D400 IN CARRIAGEWAYS AND C250 IN FOOTWAYS.
 - LAYOUT SHOWN IN BLUE IS THE WHEATFIELD WAY DESIGN.

- DRAINAGE KEY:**
- NEW PREFORMED CONCRETE TRAPPED GULLY POT (TO NOTE 9) WITH CLASS D400 GRATING AND FRAME (TO NOTE 7). REFER TO DRAINAGE SCHEDULES FOR COVER LEVELS AND COORDINATES.
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 - NEW CATCHPIT (TO NOTE 11) TO BE CONSTRUCTED IN PLACE OF EXISTING GULLY. EXISTING OUTFLOW/LATERAL TO BE RETAINED AND RE-USED.
 - NEW KERB

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

- CONSTRUCTION**
UNIVERSITY AND COURT ARE IN THE VICINITY EXPECT HIGH AND VULNERABLE PEDESTRIAN FLOW
- MAINTENANCE/CLEANING**
UNIVERSITY AND COURT ARE IN THE VICINITY EXPECT HIGH AND VULNERABLE PEDESTRIAN FLOW
- DECOMMISSIONING/DEMOLITION**
UNIVERSITY AND COURT ARE IN THE VICINITY EXPECT HIGH AND VULNERABLE PEDESTRIAN FLOW

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

Rev.	Date	Description	By	Chk'd	App'd
C2	25.10.18	CONSTRUCTION ISSUE		PT	PE CC
C1	23.07.18	DRAFT FOR COMMENT		PT	PE CC

Drawing Status: **FIT FOR CONSTRUCTION APPROVAL** Suitability: **S4**

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Client:

Project Title: **KINGSTON MINI HOLLAND LOT 2**

Drawing Title: **PENRHYN ROAD
DETAILED DESIGN
DRAINAGE
SHEET 3 OF 3**

Scale	Designed	Drawn	Checked	Authorised
1:200	PT	PT	PE	CC
Original Size	Date	Date	Date	Date
A1	20/07/2018	20/07/2018	20/07/2018	20/07/2018
Drawing Number	Originator	Volume	Project Ref. No.	
MHL2	ATK	HDG	5141484	
Location	Type	Role	Number	
PYN	DR	D	0003	
			C2	

