

GENERAL NOTES	
1. ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CIVIL ENGINEERING SPECIFICATION AND STANDARD CONSTRUCTION DETAILS. CONSTRUCTION PRODUCTS SUPPLIED ON THIS PROJECT ARE TO BE IN ACCORDANCE WITH THE UE CONSTRUCTION PRODUCTS REGULATION (NO 305/2011-CPR). PRODUCTS ARE TO BEAR THE CE MARKING LABEL & ARE TO BE IN ACCORDANCE WITH THE HARMONISED EUROPEAN STANDARDS (H.S.) OR, FOR PRODUCTS NOT COVERED BY H.S., IN ACCORDANCE WITH THE EU-LEVEL ASSESSMENT DOCUMENTS (EADS). THE NAME, STAMPS, AUTHORS OF IRISH AND IRISH-IMPORTED ADDITIONAL GUIDANCE TO SOME HENS IN THE FORM OF NATIONAL ANNEXES OR STANDARD RECOMMENDATIONS (SRs) WHICH SET OUT APPROPRIATE MINIMUM PERFORMANCE LEVELS FOR SPECIFIC INTENDED USES OF THE PRODUCT IN IRELAND. NSAI HOST THIS INFORMATION AT <a href="http://WWW.NSAI.IE">WWW.NSAI.IE</a>	
2. CONTRACTOR IS TO REFER TO GENERAL NOTES-STRUCTURAL DRAWING FOR DETAILS RELATING TO EXCAVATIONS, FOUNDATIONS & BACKFILLING, CAST-IN-SITU CONCRETE ETC.	
3. ALL DIMENSIONS IN METERS UNLESS SPECIFIED OTHERWISE.	
4. ALL CO-ORDINATES ARE TO IRISH TRAVERSE MERCATOR.	
5. ALL LEVELS ARE TO ORDNANCE LEVEL (MALIN HEAD).	
6. ALL EXISTING LEVELS, EXISTING SITE TOPOGRAPHY AND SURROUNDING SITE TOPOGRAPHY HAS BEEN TAKEN FROM <a href="http://XXXXXXXXXX">XXXXXXXXXX</a> SURVEY DRAWING REF: <a href="http://XXXXXXXXXX">XXXXXXXXXX</a>	
7. THE CONTRACTOR SHALL CONFIRM ALL EXISTING DRAINAGE / MANHOLE INVERT LEVELS & THE LOCATION OF ALL EXISTING SERVICES ON SITE PRIOR TO COMMENCEMENT OF THE WORKS.	
8. UICSE EIREANN	
8.1. ALL WATER SUPPLY WORKS TO BE IN ACCORDANCE WITH UICSE EIREANN 'CODE OF PRACTICE FOR WATER INFRASTRUCTURE'. THE CONTRACTOR IS TO REFER TO UICSE EIREANN 'WATER INFRASTRUCTURE STANDARD DETAILS'. A SAMPLE OF RELEVANT DETAILS ARE PROVIDED AS BMCE DRAWING <a href="http://XXXXXX">XXXXXX</a> . HOWEVER THE CONTRACTOR IS ADVISED UICSE EIREANN'S DOCUMENT TAKES PRECEDENCE.	
8.2. ALL SOIL DRAINS, DRAINS & DRAINS TO BE IN ACCORDANCE WITH UICSE EIREANN 'CODE OF PRACTICE FOR WASTEWATER INFRASTRUCTURE'. THE CONTRACTOR IS TO REFER TO UICSE EIREANN 'WATER INFRASTRUCTURE STANDARD DETAILS'. HOWEVER A SAMPLE OF RELEVANT DETAILS IS PROVIDED AS BMCE DRAWING <a href="http://XXXXXX">XXXXXX</a> . HOWEVER THE CONTRACTOR IS ADVISED UICSE EIREANN'S DOCUMENT TAKES PRECEDENCE.	
8.3. PRIOR TO THE COMMENCEMENT OF WORKS ON SITE, THE CONTRACTOR IS TO CARRY OUT A FLOW TEST ON ALL EXISTING FIRE HYDRANTS ON THE SITE AND WITHIN 15m OF THE SITE BOUNDARY. TEST RESULTS ARE TO BE CIRCULATED TO THE PROJECT FIRE CONSULTANT AND BMCE FOR REVIEW.	
8.4. WITH REFERENCE TO UICSE EIREANN QUALITY ASSURANCE FIELD INSPECTION REQUIREMENTS, THE CONTRACTOR WILL PROVIDE THE SERVICES AS LISTED FOR THE DEVELOPERS DETAILED BELOW.	
8.5. THE CONTRACTOR IS TO PROVIDE FOR ALL SERVICES AS LISTED FOR THE DEVELOPERS CONSTRUCTION ENGINEER, AND ALL LIASONS WITH UICSE EIREANN FIELD ENGINEER. THIS INCLUDES ALL TESTING AND COMMISSIONING OF THE WATER AND/OR WASTEWATER INFRASTRUCTURE AND CONFIRMATION OF THE RESULTS OF ALL TESTING AND COMMISSIONING BY THE ANNUAL CERTIFICATES AND TEST RESULT CERTIFICATES. IN RESPECT OF THE ON-SITE, OFF-SITE TESTING AND COMMISSIONING THE WATER AND/OR WASTEWATER SERVICES SEPARATION DETAILS ARE PROVIDED AS A DESKTOP REVIEW OF THE TESTING RECORDS CONDUCTED AND WITNESSED BY OTHERS (LOCAL AUTHORITY / UICSE EIREANN FIELD ENGINEERS) THAT THE WATER AND/OR WASTEWATER INFRASTRUCTURE HAS BEEN APPROPRIATELY TESTED ON SITE.	
9. LOCAL AUTHORITY SURFACE WATER	
9.1. ALL SURFACE WATER DRAINAGE WORKS ARE TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL AUTHORITY CODE OF PRACTICE AND GSDES.	
9.2. THE CONTRACTOR IS RESPONSIBLE FOR ALL APPLICATIONS TO THE LOCAL AUTHORITY FOR TEMPORARY ROAD OPENING LICENCES, TEMPORARY DRAINAGE CONNECTIONS ETC.	
9.3. THE CONTRACTOR IS RESPONSIBLE FOR ALL LIASONS WITH THE LOCAL AUTHORITY RELATING TO DRAINAGE INSPECTIONS / FINAL SIGN-OFF.	
10. GREEN / BLUE ROOFS	
10.1. THE MAIN CONTRACTOR (AND/OR THEIR APPOINTED SPECIALIST ROOF SUBCONTRACTOR) SHALL BE RESPONSIBLE FOR THE DETAILED DESIGN, COORDINATION, SPECIFICATION, DETAILING, INSTALLATION, INSPECTION, BCAR CERTIFICATION, WARRANTING AND MAINTENANCE SPECIFICATIONS FOR ALL GREEN/BLUE ROOFS AND PODIUM BUILD UP.	
10.2. FOR THE AVOIDANCE OF DOUBT BMCE ARE NOT RESPONSIBLE FOR THESE ELEMENTS AS CIVIL ENGINEER BMCE ROLE IN THESE ELEMENTS, RELATES SOLELY TO THEIR USE AS SUDS DEVICES (WHERE APPPLICABLE), WHERE BMCE INDICATE 'TYPICAL' GREEN BLUE ROOF BUILD UPS THIS SHALL NOT BE CONSTRUED AS A DESIGN BY BMCE, AND IS DEMONSTRATIVE PURPOSES ONLY.	
10.3. FOR FURTHER INFORMATION REFER TO BMCE SUDS STRATEGY DRAWING FOR 'GREEN BLUE ROOF & PODIUM BUILD-UPS - SUDS PERFORMANCE SPECIFICATION'.	
11. FIRE CERT & FIRE FIGHTING STRATEGY	
(i) BMCE ARE NOT RESPONSIBLE FOR THE DEVELOPMENT FIRE CERT APPLICATION OR THE FIRE FIGHTING STRATEGY FOR THE SITE / DEVELOPMENT. WE USE UICSE EIREANN'S CODE OF PRACTICE FOR WATER INFRASTRUCTURE (JULY 2020 REVISION 2) CLAUSE 1.17 RELATING TO FIRE AUTHORITY LIASION. WE NOTE ALL RESPONSIBILITIES RELATING TO THE 'DEVELOPER' ARE WITH THE FIRE AUTHORITY. WE ALSO NOTE RESPONSIBILITY FOR ANY LIASONS WITH THE FIRE AUTHORITY. WE AGREE ALL ARRANGEMENTS FOR THE PROVISION OF FIRE FLOW FOR FIRE FIGHTING PURPOSES AS OUTLINED IN CLAUSE 1.17 ARE ALSO NOT PART OF BMCE'S SCOPE OF WORK.	
(ii) THE CLIENT / PROJECT FIRE CONSULTANT ARE TO SATISFY THEMSELVES THAT ALL EXISTING AND PROPOSED FIRE HYDRANTS WILL PROVIDE SUFFICIENT FLOWS FOR FIRE FIGHTING PURPOSES.	
(iii) BMCE WILL INDICATE THE EXISTING AND PROPOSED WATERMAIN LAYOUT FOR THE SITE INCLUDING THE LOCATION OF EXISTING AND PROPOSED FIRE HYDRANTS, HOWEVER AS OUTLINED ABOVE, WILL TAKE NO RESPONSIBILITY FOR THE PERFORMANCE FOR FIRE FIGHTING PURPOSES.	
12. CONSTRUCTION TRAFFIC MANAGEMENT	
(i) THE CONTRACTOR IS RESPONSIBLE FOR THE MANAGEMENT OF ALL CONSTRUCTION TRAFFIC.	
(ii) THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING AND ALTERING ROAD SPECIFICATIONS IF INTENDED TO BE USED AS TEMPORARY CONSTRUCTION ROUTES.	
13. STORM WATER BURIED ATTENUATION TANKS TO BE DESIGNED AND SUPPLIED BY SPECIALIST SUBCONTRACTOR AND APPROVED VIA TECHNICAL SUBMITTAL. ALL TANKS TO BE DESIGNED FOR FIRE TERRIER VEHICLE LOADINGS UNLESS NOTED OTHERWISE.	

## ROADS / FOOTPATH NOTES

NOTE: ALL ROADS A PER DRAWING C-12100

### 1. ALTERNATIVE ROAD BASE MATERIAL

AS AN ALTERNATIVE TO DENSE BITUMEN MACADAM ROADBASE THE CONTRACTOR CAN USE A LEAN MIX ROADBASE 150mm THICK, AGGREGATES FOR LEAN MIX CONCRETE MAY CONSIST OF EITHER COARSE AND FINE AGGREGATE BATCHED SEPARATELY, OR AN ALL-IN AGGREGATE, HAVING A MAXIMUM NOMINAL SIZE NOT EXCEEDING 40mm NOR LESS THAN 20mm AND SHOULD LIE WITHIN THE GRADING LIMITS SET OUT IN TABLE 1.1 BELOW.

### TABLE 1.1 LEAN MIX CONCRETE - RANGE OF GRADING

SIEVE SIZE IS 24	PERCENTAGE BY MASS PASSING	NOMINAL MAXIMUM SIZE
40mm	20mm	
75mm	100	-
37.5mm	95-100	100
20mm	45-80	80-100
5mm	30-40	35-45
600 $\mu$ m	8-30	10-35
150 $\mu$ m	0-6	0-6

PARTICLE SIZE DISTRIBUTION SHOULD BE DETERMINED BY THE WASHING AND SIEVING METHOD OF BS 812 PART 103. THE RATIO, BY MASS OF CEMENT TO AGGREGATE, SHOULD BE SUCH AS TO PRODUCE 28 DAY CUBE STRENGTHS OF NOT LESS THAN 10N/mm<sup>2</sup> AND NOT MORE THAN 20N/mm<sup>2</sup>. CURING OF LEAN-MIX ROAD BASE SHALL BE BY BUTUMINOUS SPRAYING TO CLAUSE 920 SPECIFICATION FOR ROAD WORKS

### 2. USE OF ROADBASE FOR CONSTRUCTION TRAFFIC

THE ROADBASE MAY BE USED FOR CONSTRUCTION TRAFFIC PROVIDED IT IS INCREASED IN THICKNESS By 50mm AND SURFACE DRESSED. SURFACE DRESSING SHOULD BE CARRIED OUT IN ACCORDANCE WITH THE MANUAL 'SURFACE DRESSING' PUBLISHED BY THE DEPARTMENT OF THE ENVIRONMENT. THE BINDER SHOULD BE CUTBACK BITUMEN OR CATIONIC BITUMEN EMULSION. COMPLIANCE WITH THE SPECIFICATION ISSUED BY THE DEPARTMENT OF THE ENVIRONMENT. OTHER BINDERS MAY BE USED, SUBJECT TO APPROVAL.

### 3. DEPTH OF SUB-BASE & CAPPING LAYER

THE DEPTH OF THE SUB-BASE AND CAPPING LAYERS WILL VARY WITH THE SUBGRADE STRENGTH, AS INDICATED BY THE CBR TEST RESULTS.

THE THICKNESS OF THE SUB-BASE LAYER SHOULD BE 150mm FOR ALL FORMS OF ROADWAY CONSTRUCTION.

THE THICKNESS OF THE CAPPING LAYER WILL VARY WITH THE CBR VALUE, AS INDICATED IN TABLE 3.1 BELOW. IF THE CBR VALUE OF THE SUBGRADE EXCEEDS 15%, NO CAPPING LAYER IS REQUIRED.

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