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except as agreed the document was originally issued. Ince Number EN 0074024		



Architect	Reddy Architecture & Urbanism	CS Consulting Group
Project	39 Housing Units at Camross & Carrownanty, Ballymote, Co Sligo	DUBLIN LONDON LIMERICK Head Office
Title	Proposed Road Layout	19-22 Dame Street, Dublin 2. T: +353 (0)1 5480863 e: info@csconsulting.ie w: www.csconsulting.ie
Dwg. No.	R127-CSC-ZZ-XX-DR-C-0001	Quality I.S. EN ISO 9001:2008 Environment I.S. EN ISO 14001:2004
Date Oct 2023	Drn by Chkd by Aprvd by Scale Revision AB GL NB 1:250@A1 P2	NSAI Energy I.S. EN ISO 50001:2011 Certified Health & Safety OHSAS 18001:2007



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e Number EN 0074024					





ROAD ALIGNMENT 1 - LONGS

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ROAD ALIGNMENT 2 - LONGSECTION

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ROAD ALIGNMENT 3 - LONGSECTION

SCALE: H 1:500,V 1:50. DATUM: 69.000



Architect	Reddy Architecture & Urbanism	CS Consulting Group			
Project	39 Housing Units at Camross & Carrownanty, Ballymote, Co Sligo	DUBLIN LONDON LIMERICK Head Office 19-22 Dame Street, Dublin 2. T: +353 (0)1 5480863 e: info@csconsulting.ie w: www.csconsulting.ie			
Title	Proposed Road Profiles				
Dwg. No.	R127-CSC-ZZ-XX-DR-C-0003	Quality I.S. EN ISO 9001:2008 Environment I.S. EN ISO 14001:2004			
Date Oct 2023	Drn by Chkd by Aprvd by Scale Revision AB GL NB AS SHOWN P2	NSAI Energy I.S. EN ISO 50001:2011 Certified Health & Safety OHSAS 18001:2007			



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TRADITIONAL FOUNDATION		TRADITIONAL FOUNDATION TRADITIONAL FOUNDATION		PLANTED FOUNDATION		POST DETAILS				
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0.75	0.65	0.65	0.70	0.70	0.70	0.40	0.65	76.1	3.2	CHS
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NOTE:

1. ALL DIMENSIONS IN MILLIMETERS UNLESS STATED OTHERWISE.



ACCESS ROADS -TAKEN IN CHARGE



TAKEN IN CHARGE

SURFACE COURSE – 45mm MIN THICKNESS OF SMA14 CLOSE SURF 65/105 DES TO TII SPECIFICATION FOR ROADWORKS CL 3.1.9. BINDER COURSE – 60mm THICKNESS OF AC20 DENSE BIN 70/100 DES TO TII SPECIFICATION FOR ROADWORKS CL 3.1.5. ROAD BASE – 100mm MINIMUM THICKNESS OF AC32 DENSE BASE 70/100 DES TO TII SPECIFICATION FOR ROAD WORKS CL 3.1.2.

SUB-BASE – 150mm MINIMUM THICKNESS OF TYPE B GRANULAR FILL MATERIAL TO TII SPECIFICATION FOR ROAD WORKS CLAUSE 808.

CAPPING – SEE TABLE 1 FOR THE MINIMUM THICKNESS OF 6F2 GRANULAR CAPPING MATERIAL TO TIL SPECIFICATION FOR ROAD WORKS

SURFACE COURSE – 45mm MIN THICKNESS OF SMA14 CLOSE SURF 65/105 DES TO TII SPECIFICATION FOR ROADWORKS CL 3.1.9. BINDER COURSE – 95mm THICKNESS OF AC20 DENSE BIN 70/100 DES TO TII SPECIFICATION FOR ROADWORKS CL 3.1.5. SUB-BASE – 150mm MINIMUM THICKNESS OF TYPE B GRANULAR FILL MATERIAL

TO TIL SPECIFICATION FOR ROAD WORKS CLAUSE 808.

CAPPING – SEE TABLE 1 FOR THE MINIMUM THICKNESS OF 6F2 GRANULAR CAPPING MATERIAL TO TIL SPECIFICATION FOR ROAD WORKS



100mm

100mm

SURFACE TREATMENT 1 - DRIVE OVER CONCRETE FOOTPATH CONSTRUCTION

SURFACE TREATMENT 2 - CONCRETE FOOTPATH CONSTRUCTION

80mm 30mm 150mm

TABLE 1

FLEXIBLE PAVEMENT

THE MINIMUM REQUIRED THICKNESS OF NON-FROST SUSCEPTIBLE CAPPING MATERIAL IS SHOWN HEREUNDER: -

CBR SUBGRADE	BELOW	2 - 5	5 - 15	15+
%	2			
THICKNESS OF	GEOGRID			NO
CAPPING(mm)	DESIGN	300	150	CAPPING

CBR TESTS SHALL BE CARRIED OUT AT A RATE OF ONE TEST PER 100 METERS OF ROAD

ALL ROADS DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS FOR SITE DEVELOPMENT WORKS AND WITH REFERENCE TO THE DESIGN MANUAL FOR URBAN ROADS AND STREETS

NOTES:

- 1. FOR AREAS WHERE CBR VALUE IS BELOW 2%, CARRY OUT THE FOLLOWING: -THE SOFT AREA IS TO BE EXCAVATED OUT FULLY AND REPLACED WITH A GENERAL FILL MATERIAL (CLASS 1A/1B) TO TII SPECIFICATION TO THE UNDERSIDE OF A GEOGRID LAYER (ENKÁGRID TC 40 OR SIMILAR 40kN/m). SEPARATION GEOTEXTILE TO BE PLACED BETWEEN THE SUBGRADE AND CAPPING.
- AN ENGINEER SHOULD INSPECT THE SOFT AREA WHEN IT HAS BEEN FULLY EXCAVATED OUT PRIOR TO THE FILL /STABILISED MATERIAL BEEN PLACED/WORKED.
- 2. FOR AREAS WHERE CBR VALUES ARE BETWEEN 2% AND 5%, CARRY OUT THE FOLLOWING: -THE SOIL IS TO BE EXCAVATED OUT FULLY AND REPLACED WITH A CAPPING MATERIAL TYPE 6F1/6F2 TO TII SPECIFICATIONS. DEPTHS OF CAPPING MATERIAL AS PER

TABLE 1. SEPARATION GEOTEXTILE TO BE PLACED BETWEEN THE SUBGRADE AND CAPPING.

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----- A393 STEEL MESH 150mm IN SITU CONCRETE FOOTPATH WITH BRUSH FINISH TO TH SRW 1106 SUB BASE – TYPE B GRANULAR FILL MATERIAL TO TH SRW CL 808

100mm IN SITU CONCRETE FOOTPATH WITH BRUSH FINISH

SUB BASE – TYPE B GRANULAR FILL MATERIAL

TO TH SRW 1106

TO TII SRW CL 808

SURFACE TREATMENT 3 - NATURAL GREY PAVING

80mm THICK NATURAL GREY PAVING TO LANDSCAPE ARCHITECT DETAIL 30mm THICK CLASS 1 MORTAR SUB BASE – TYPE B GRANULAR FILL MATERIAL TO TII SRW CL 808



<u>roads with signi</u> <u>up</u> sequence <u>SCAL</u>

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 GEOGRID TO BE INSTALL MANUFACTURERS REQUIREN MIN CBR VALUES TO BI 15% TOP OF CAPPIN 30% TOP OF CI804 GEOTEXTILE SEPERATION INSTALLED AT SUB-FORMA PROPOSED MATERIAL SHAL FROM SYNTHETIC MEMBRAN OR SIMILAR TYPE APPROVIN 	ED AS PER THE MENTS. E ACHIEVED; IG LAYERS SUB BASE LAYERS. MEMBRANE TO BE TION LEVEL. THE L BE MANUFACTURED ME TERMALLY BONDED ED BY ENGINEER.				
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Dwg. No. Date Oct 2023	Drn by Chkd by AB GL	SC-ZZ-XX-DR-C-	0005	QualityI.S. EN ISO 9001:2008EnvironmentI.S. EN ISO 14001:2004NSAI CertifiedEnergyI.S. EN ISO 50001:2011Health & SafetyOHSAS 18001:2007	



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				68	6	. BULK M	ETERS SHALL COM	PLY WITH SECT	ION 3.15.4 OF THE
				-	7	. WATERM	AIN T-JUNCTIONS	SHALL BE AT	90 DEGREE ANGLES AS
		Ş	57.74		8	. THRUST	BLOCKS TO BE PI	ROVIDED AT DE	AD ENDS, BENDS, TEE DETAILS) OR ANY
OFF-LII IRISH W DETAIL	NE HYDR VATER ST STD-W-	ANT AS I ANDARD 18	PER ST.TT			ABRUPT AT ANY DISTORT DISPROF ACCORD PRACTIC	CHANGE IN VERTI LOCATION WHERE THE PIPE LINE IN PORTIONATE MOVEM ANCE WITH SECTIONE E AND IRISH WATE	ICAL OR HORIZO WATER PRESSU ISTALLATION OR MENT. THRUST E DN 4.9 OF THE ER STANDARD E	DNTAL DIRECTION AND JRE IS LIKELY TO CAUSE BLOCKS TO BE IN IRISH WATER CODE OF DETAIL STD-W-28.
					9	. ANY NE ACCORD STD-W- TO EXIS IRISH W	W PLANTING OF TF ANCE WITH THE IR -12A. ANY PROPOS TING TREES SHALL ATER DETAIL STD-	REES, SHRUBS I RISH WATER STA SED WATERMAIN - BE IN ACCORE -W-12.	ETC. TO BE IN STRICT NDARD DETAIL LOCATED IN PROXIMITY DANCE WITH STANDARD
	MIL BO		98. FQ		1	0. NOTE: COMPLE CONFIRM THAN 4	THE FIRE SAFETY (TED YET, BUT AS MED THAT HYDRAN 6m FROM ANY PA	CERTIFICATE HA PART OF THIS TS SHALL NOT RT OF THE DEV	S NOT BEEN DEVELOPMENT, IT IS BE LOCATED ANY MORE /ELOPMENT UNITS.
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<u>NOTES :</u>

1. 225mm THICK CL.20N/20mm MASS CONCRETE FOUNDATIONS.

- 2. PREFORMED HALF CIRCLE CHANNEL PIPES. THE PIPELINE MAY, WHERE PRACTICABLE, BE LAID THROUGH THE MANHOLE AND THE CROWN CUT OUT TO HALF DIAMETER, PROVIDED FLEXIBLE JOINTS ARE SITUATED ON EACH SIDE NO FURTHER THAN 600mm FROM THE INNER FACE OF MANHOLE WALL.
- 3. MANHOLE CONSTRUCTION.
- FOR SURFACE WATER MANHOLE HIGH DENSITY BLOCKS TO CI.S10 OF IS.20 PART 1:1987 OR CI. 30N/20mm INSITU CONCRETE.
- BLOCK WORK SHALL BE BEDDED AND JOINTED USING MORTAR TO IS406. BEDS AND VERTICAL JOINTS SHALL BE COMPLETELY FILLED WITH MORTAR AS THE BLOCKS ARE LAID. • JOINTS SHALL BE FLUSH POINTED AS THE WORK PROCEEDS.
- BRICK TO BE BONDED TO BLOCK WORK USING ENGLISH GARDEN WALL BOND.
- 4. RELIEVING ARCH FORMED BY 215x103x65 SOLID ENGINEERING BRICK CLASS A OR B AS PER DRAWING. RELIEVING ARCHES USED IN BRICK OR BLOCK WORK MANHOLES EXTEND OVER FULL THICKNESS OF WALL. A DOUBLE ARCH IS TO BE FORMED FOR PIPE DIAMETERS GREATER THAN 600mm.
- 5. BENCHING AND PIPE CHANNEL PIPE SURROUND-CI.20/20 CONCRETE.
- 6. BENCHING FINISHED IN 2:1 SAND-CEMENT MORTAR WITH A SMOOTH TROWEL FINISH, AT 1:13 SLOPE TOWARDS CHANNEL.
- 7. STANDARD RUNGS AT 300 CENTRES VERTICALLY AND GALVANISED TO THE LATEST VERSION OF B.S.729 OR EQUIVALENT. NOTE: STEP IRONS ARE NOT ACCEPTABLE.
- 8. 600mm SQUARE OPE IN ROOF SLAB.
- 9. PRECAST R.C. ROOF SLAB SHALL BE 200mm THICK IN CLASS 30N/20mm, WITH 40mm COVER TO
- 10. 1 TO 2 COURSES OF SOLID ENGINEERING BRICKS CI.B TO I.S.91:1983 SET IN 1:3 (CEMENT AND MORTAR).
- 11. CLASS D400 OR E600 MANHOLE COVER AND FRAME TO IS/EN 124. 150mm DEEP FRAME FOR ROADS AND 100mm DEEP FOR FOOTPATHS AND GREEN AREAS. NON-ROCK DESIGN, CLOSED KEYWAYS, MANUFACTURED FROM SPHEROIDAL GRAPHITE CAST IRON (DUCTILE CAST IRON), 600x600 (600mmø) CLEAR OPENING, COVER AND FRAME COATED IN BITUMEN OR OTHER PAPROVED MATERIAL, COVER TO HAVE A MINIMUM MASS OF 140KG/m², FRAME BEARING AREA SHALL BE 80,000mm² MIN., FRAMES SHALL BE DESIGNED TO PREVENT COVERS FALLING INTO MANHOLE. FRAMES SHALL BE BEDDED ON APPROVED MORTAR TO MANUFACTURERS INSTRUCTIONS.
- 12. SHORT LENGTH PIPE AND PIPE JOINT EXTERNAL TO MANHOLE SHALL NOT EXCEED 600mm FROM THE INNER FACE OF MANHOLE WALL.
- 13. TOE HOLES OF 230mm MINIMUM DEPTH AND GALVANISED STEEL SAFETY RAILINGS TO BE PROVIDED IN BENCHING OF SEWERS GREATER THAN 525mm DIAMETER AND DEPTH TO INVERT >3m FOR ACCESS TO INVERT
- 14. A SAFETY CHAIN IS TO BE PROVIDED ON PIPES THAT EXCEED 450mm IN DIAMETER. MILD STEEL SAFETY CHAIN SHALL BE 10mm NOMINAL SIZE GRADE M(H) NON-CALIBRATED CHAIN, TYPE 1, COMPLYING WITH B.S.4942 PART 2 OR EQUIVALENT.
- 15. WHEN DEPTH OF MANHOLES TO INVERT IS GREATER THAN 3.0m LADDERS SHALL BE USED INSTEAD OF RUNGS TO B.S.4211 OR EQUIVALENT EXCEPT THAT STRINGERS SHOULD BE NOT LESS THAN 65x12mm IN SECTION AND RUNGS 25mm IN DIAMETER. FIXED LADDERS SHOULD MEET THE DIMENSIONAL REQUIREMENTS OF B.S.4211 OR EQUIVALENT.
- 16. LADDER STRINGERS SHOULD BE ADEQUATELY SUPPORTED FROM THE MANHOLE WALL AT INTERVALS OF NOT MORE THAN 2.0m, STRINGERS SHOULD BE BOLTED TO CLEATS TO FACILITATE RENEWAL.
- 17. ALL LADDERS, RUNGS, HANDRAILS, SAFETY CHAINS ETC. SHALL BE HOT DIP GALVANISED TO B.S.729 OR EQUIVALENT.
- 18. PIPE SHOULD BE CUT FLUSH WITH THE INSIDE SURFACE OF THE MANHOLE WALL SO THAT THE CHANNEL EXTENDS THE FULL LENGTH OF THE MANHOLE (EXCEPT FOR PRECAST MANHOLES).
- 19. POSITION OF 910 SQUARE OPE IN INTERMEDIATE ROOF SLAB. • ALL MANHOLES SHALL BE WATER TIGHT TO THE SATISFACTION OF THE ENGINEER. • FORMWORK TO REINFORCED CONCRETE AND MASS CONCRETE SHALL COMPLY WITH CLASS 2, SECTION
- 6.2.7, B.S.8110: PART 1: 1997 • FINISH TO THE TOP OF SLABS SHALL COMPLY WITH TYPE A. SECTION 6.2.7. B.S.8110: PART 1:1997.
- PLAN DIMENSIONS OF MANHOLE ARE BASED ON BLOCK WORK HAVING A COORDINATING SIZE OF 450x225x100.
- MANHOLES ARE DESIGNED TO B.S.8005 AND WALL THICKNESS TO LS.325 BLOCK WORK DESIGN CODE TAKING GRANULAR FILL PRESSURE AND H.B. SURCHARGE. REINFORCEMENT TO SLABS TO ENGINEERS DETAILS
- 20. FOR MANHOLES >3m DEPTH TO INVERT USE 30N/20mm INSITU CONCRETE, REINFORCING MESH REF. A393@ 6.16KG/m TO BE FIXED AT MID POINT OF WALL. ADDITIONAL REINFORCEMENT TO BE SUPPLIED OVER PIPE CROWN.
- 21. FOR PRECAST MANHOLES, CHAMBER WALLS AND COVER SLAB TO BE CONSTRUCTED TO IS EN 1917 AND IS 420 2004.
- 22. MANHOLE OPENINGS TO BE SITUATED FURTHEST FROM THE NEAREST CARRIAGEWAY. MANHOLE STEPS/ACCESS TO BE POSITIONED TO ALLOW VIEWING OF ONCOMING TRAFFIC.
- 23. FOR BEDDING AND SEALING OF CHAMBER RINGS, THE TOP RING (TO PRECAST COVER SLAB AND BOTTOM RING TO BE BEDDED WITH CEMENT MORTAR. FOR INTERMEDIATE RINGS, JOINTS TO BE SEALED WITH APPROVED PRE-FORMED JOINTING STRIP.
- 24. PRECAST MANHOLES TO BE SURROUNDED WITH A MINIMUM OF 150mm THICK GRADE C $^{20}_{24}$ CONCRETE.
- 25. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION.
- 26. DO NOT SCALE FROM THIS DRAWING USE STATED DIMENSIONS ONLY. IF IN DOUBT CONSULT THE ENGINEER.
- 27. LEVELS REFER TO O.S. DATUM MALIN HEAD.

<u>GENERAL NOTES</u>

ALL BRICK TO BE SOLID ENGINEERING BRICK CLASS A OR B.

FOR PIPE DIAMETER >750mm USE MANHOLE WITH INTERNAL SIZE=PIPE SIZE + 1mETRE + 300mm. DISTANCE FROM THE TOP RUNG OF THE LADDER TO GROUND LEVEL MUST BE A MAXIMUM OF 500mm.

NOTES: WHERE THE 1 ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE. DEPTH OF 2 THE MINIMUM DEPTH OF COVER FROM THE FINISHED SURFACE TO THE CROWN OF GRAVITY PIPES WITHOUT PROTECTION SHOULD SOFT BE AS FOLLOWS: MATERIAL A. GARDENS AND PATHWAYS WITHOUT ANY POSSIBILITY OF VEHICULAR ACCESS - DEPTH NOT LESS

- THAN 0.5M (THIS WOULD IS NORMALLY RELATE TO DRAINS IN PRIVATE PROPERTY, SHALLOW PIPES OF THIS NATURE ARE UNDESIRABLE AND SHOULD BE EXCESSIVE. INSTALLED IN ACCORDANCE WITH THE CURRENT BUILDING REGULATIONS). SUCH ARRANGEMENTS
- B. DRIVEWAYS. PARKING AREAS AND YARDS WITH HEIGHT RESTRICTIONS TO PREVENT ENTRY BY VEHICLES WITH A GROSS VEHICLE SHALL WEIGHT IN EXCESS OF 7.5 TONNES - DEPTH NOT LESS THAN 0.75m. BE C. DRIVEWAYS, PARKING AREAS AND NARROW STREETS WITHOUT FOOTWAYS (EG MEWS
- DEVELOPMENTS) WITH LIMITED ACCESS FOR SUBJECT VEHICLES WITH A GROSS VEHICLE WEIGHT IN EXCESS OF 7.5 TONNES - DEPTH NOT LESS THAN 0.9m. TO ASSESSMENT DEPTHS OF SEWERS IN GATED ESTATES SHALL BE SIMILAR TO THAT OUTLINED ABOVE. BY
- AGRICULTURAL LAND AND PUBLIC OPEN SPACE DEPTH NOT LESS THAN 0.9m. IRISH WATER OTHER HIGHWAYS AND PARKING AREAS WITH UNRESTRICTED ACCESS TO VEHICLES WITH A GROSS VEHICLE WEIGHT IN EXCESS OF BEFORE 7.5 TONNES - DEPTH NOT LESS THAN 1.2m. ADVANCING 3 CLAUSE 808 MATERIAL IN ACCORDANCE WITH THE NATIONAL ROADS AUTHORITY SPECIFICATION FOR ROAD WORKS IS TO BE USED WITH AS BACKFILL MATERIAL WHERE THE SEWER MAIN IS LOCATED IN ROADS, FOOTPATHS OR WHEN THE NEAREST PART OF THE THE TRENCH IS WITHIN 1M OF THE PAVED EDGE OF THE ROADWAY, CLAUSE 808 IS TO BE COMPACTED AS PER CLAUSE 802 OF THE WORK. NATIONAL ROADS AUTHORITY SPECIFICATION FOR ROAD WORKS. 7 IN GREEN FIELD AREAS, TYPE 4 SELECTED EXCAVATED MATERIAL MAY BE USED IN GREEN-FIELD AREAS ABOVE GRANULAR PIPE SURROUND MATERIAL SUBJECT B TO THE APPROVAL OF IRISH WATER. BACKFILL 5 PIPE BEDDING SHALL COMPLY WITH WIS 4-08-02 AND IGN 4-08-01 GRANULAR MATERIAL SHALL BE 14mm TO 5MM GRADED (SELECTED AGGREGATE OR 10MM SINGLE SIZED AGGREGATE IS EN 13242. CONCRETE BED, HAUNCH & SURROUND, WHERE REQUIRED, SHALL EXCAVATED BE TO STD-WW-08. MATERIAL) WILL BE 6 IN SOFT GROUND CONDITIONS ALLOWED (CBR ABOVE < THE 5) SIDE THE HAUNCH MATERIAL GRANULAR SHOULD MATERIAL BE IN EXCAVATED THE AND CASE DISPOSED OF OF RIGID IN PIPES. ACCORDANCE A WITH GRANULAR THE SURROUND WASTE OF MANAGEMENT A ACT MINIMUM AND DEPTH CLAUSE OF 808 150mm MATERIAL ABOVE IN THE ACCORDANCE CROWN WITH OF THE THE NATIONAL PIPE ROADS IS AUTHORITY REQUIRED SPECIFICATION FOR FOR FLEXIBLE ROAD PIPES, WORKS AND SHALL TYPE REPLACE B THE MATERIAL EXCAVATED MAY MATERIAL, BE WRAPPED USED IN AS GEO-TEXTILE BACKFILL WRAPPING, ABOVE ALTERNATIVELY, THIS. SPECIAL ALL PIPE RISING SUPPORT MAINS ARRANGEMENTS, IN INCLUDING GREENFIELD PILING AREAS ETC. SHALL MAY HAVE BE A REQUIRED MINIMUM COVER OF 300mm OF GRANULAR MATERIAL ABOVE THE EXTERNAL CROWN OF THE PIPE. 8 PIPES SHALL NOT BE SUPPORTED ON STONES, ROCKS OR ANY HARD OBJECTS AT ANY POINT ALONG THE TRENCH, ROCK SHALL BE EXCAVATED TO A DEPTH OF 150mm BELOW THE ACTUAL DEPTH OF THE TRENCH WITH THE VOID FILLED WITH CLAUSE 808 MATERIAL IN ACCORDANCE WITH THE NATIONAL ROADS AUTHORITY SPECIFICATION FOR ROAD WORKS. THE GRANULAR MATERIAL SHALL BE LAID ABOVE THIS VOID BACKFILL MATERIAL. 9 NON DEGRADABLE MARKER TAPE SHOULD BE INSTALLED AT TOP OF PIPE BEDDING LAYER. IN THE CASE OF NON-METAL PIPE MATERIAL, THE MARKER TAPE SHOULD INCORPORATE A TRACE WIRE WHICH IS LINKED TO FITTINGS AND TERMINATED AT THE WASTE WATER PUMPING STATION AND THE DISCHARGE MANHOLE. 10 TRENCH WIDTHS FOR PIPE SIZES ≤80mm MAY BE <500mm, SUBJECT TO CONSIDERATION BEING GIVEN TO THE TRENCH DEPTH, HEALTH & SAFETY & CONSTRUCTION ACCESS REQUIREMENTS.

PIPE DIAMETER 'A' (mm)	DEPTH OF BEDDING 'C' (mm)
< 80 RISING MAIN	< SEE NOTE 10.
< 100	100
150 - 450	200
600	200

PIPE DIAMETER 'A' (mm)	TRENCH WIDTH 'B' (mm)		
< 80 RISING MAIN	< SEE NOTE 10.		
100	500		
150	600		
200	600		
250	750		
300	750		
350	750		
400	900		
450	900		
600	1250		













- DEPTH OF REINSTATED

(SECTION 179A APPLICATION)

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NOTES:

- 1. ALL DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS NOTED OTHERWISE. 2. AS FAR AS PERFECTIBLE, JUNCTION AND SERVICE
- CONNECTION SHALL BE BUILT IN FOR ALL PLANED USERS WHEN THE SEWER IS BEING CONSTRUCTED. WHETHER IT IS NECESSARY TO MAKE A POST-CONSTRUCTION CONNECTION THE DEVELOPER SHALL BRING THE SEWER TO THE INSPECTION CHAMBER, INSTALL THE INSPECTION CHAMBER AND SEAL THE UPSTREAM END UNTIL THE CONNECTION IS
- REQUIRED. 3. THE VERTICAL ANGLE BETWEEN THE SERVICE CONNECTING PIPE AND THE HORIZONTAL SHALL BE GREATER THAN O' AND NOT MORE THAN 60".
- 4. WHERE THE CONNECTION IS BEING MADE TO A SEWER WITH A NORMAL INTERNAL DIAMETER OF 300mm DIAMETER OF LESS, CONNECTIONS SHALL BE
- MADE USING 45° ANGLE JUNCTION. 5. WHERE THE CONNECTION IS BEING MADE TO A SEWER WITH NORMAL INTERNAL DIAMETER GREATER
- THAN 300mm A) IF THE DIAMETER OF THE CONNECTION PIPE IS GREATER THAN HALF THE DIAMETER OF THE SEWER, AN ACCESS MANHOLE SHALL BE CONSTRUCTED TO
- FORM THE CONNECTION POINT: OR B) IF THE DIAMETER OF THE CONNECTION PIPE IS LESS THAN OR EQUAL TO HALF DIAMETER OF THE SEWER, THAN THE CONNECTION SHALL BE MADE USING A PREFORMED SADDLE FITTING WITH A SLOW BEND BETWEEN THE SADDLE AND THE CONNECTION SEWER/DRAIN.
- 6. CONNECTIONS MADE WITH THE SADDLE FITTINGS SHALL BE MADE BY CUTTING AND SAFELY REMOVING A CORE FROM THE PIPE AND JOINTING THE SADDLE FITTING TO THE PIPE IN ACCORDANCE WITH THE MANUFACTORIES INSTRUCTIONS TO ENSURE A WATER TIGHT JOINT. THE CONNECTING PIPE SHALL NOT PROTRUDE INTO THE SEWERS.

NOTES:

- 1. ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
- 2. AN INSPECTION CHAMBER SHOULD BE LOCATED AT OR WITHIN 1m OF THE PROPERTY BOUNDARY AT THE UPSTREAM END OF EACH SERVICE CONNECTION ON THE PRIVATE SIDE OF THE CURTILAGE, IF PRACTICABLE.
- 3. ANY PIPE AND ASSOCIATED ACCESS UPSTREAM OF THE POINT OF CONNECTION TO A PUBLIC SEWER IS A PRIVATE DRAIN AND SHOULD BE CONSTRUCTED IN ACCORDANCE WITH THE BUILDING REGULATIONS.
- 4. ACCESS POINTS SHOULD BE LOCATED SO THAT THEY ARE ACCESSIBLE AND APPARENT TO THE MAINTAINER AT ALL TIMES FOR USE. THEY SHOULD AVOID REAR GARDENS OR ENCLOSED LOCATION S AND THEY SHOULD NEVER BE OVERLAIN WITH SURFACE DRESSING, TOPSOIL, ETC.
- 5. COVERS AND FRAMES SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS SUBJECT TO APPROVAL FROM IRISH WATER.
- 6. 200mm ALL AROUND, 100mm DEEP CONCRETE PLINTH WITH PROTECTIVE STAINLESS STEEL METAL BAND AROUND COVERS IN GREEN AREAS.
- 7. PROPRIETY PREFABRICATED CHAMBER UNITS MAY ALSO BE USED SUBJECT TO APPROVAL FROM IRISH WATER.
- 8. CONCRETE CHAMBER SHALL BE SURROUNDED BY A MINIMUM OF 150mm COMPACTED CLAUSE 804 OR CLAUSE 808 MATERIAL AS PER STD-WW-07.



Architect Project Title	Reddy Architecture & Urbanism 39 Housing Units at Camross & Carrownanty, Ballymote, Co Sligo Drainage Details					CS Consulting Group DUBLIN LONDON LIMERICK Head Office 19-22 Dame Street, Dublin 2. T: +353 (0)1 5480863			
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WATER SERVICE CONNECTION RESPONSIBILTY SCALE 1:50



SECTION 179A APPLICATION

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	TRAFFIC SIGNS.	
SIGNS.	DESCRIPTION	DOE TRAFFIC SIGNS MANUAL REFERENCE.
YIELD	YIELD SIGN	RUS026
	ROAD HUMP	W130



	ROAD MARKINGS.		
SYMBOL	DESCRIPTION	REFERENCE	COLOUR
	STOP LINE	RRM017	WHITE
	CENTRE LINE	RRM001	WHITE
	TRAFFIC CALMING TRIANGLE	M112	WHITE
Δ	YIELD ROAD MARKING	M115	WHITE



W130 ROAD HUMP AHEAD AS RER I.S.M. CHAPTER 6

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<u>KERB LEGEND:</u>

IN-SITU CONCRETE KERB 125mm UPSTAND TO TII-CC-SCD-01102	
IN–SITU CONCRETE KERB 25mm UPSTAND TO TII–CC–SCD–01102	
IN-SITU CONCRETE DROP KERB 0-6mm UPSTAND TO TII-CC-SCD-01102	
TRANSITION KERB	

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ROADS LEGEND:

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£8.58

67.36

SITE BOUNDARY PROPOSED ROAD PROPOSED FOOTPATH PROPOSED GRASS AREA PROPOSED ROAD WITH PAVING FINISH PROPOSED RAISED TABLES

PROPOSED CORDUROY TACTILE PAVING

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SIEVE SIZE	% PASSING		
100mm	100		
63mm	90-100		
37.5mm	60-80		
20mm	15-30		
10mm	0-5		

FLEXIBLE PAVEMENT THE MINIMUM REQUIRED THICKNESS OF NON-FROST SUSCEPTIBLE CAPPING MATERIAL IS SHOWN HEREUNDER:-

TABLE 1

CBR SUBGRADE	BELOW	2 - 5	5 - 15	15+
%	2			
THICKNESS OF	GEOGRID			
CAPPING(mm)	DESIGN	300	150	CAPPING

CBR TESTS SHALL BE CARRIED OUT AT A RATE OF ONE TEST PER 100 METERS OF ROAD

ALL ROADS DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS FOR SITE DEVELOPMENT WORKS AND WITH REFERENCE TO THE DESIGN MANUAL FOR URBAN ROADS AND STREETS

SCALE 1:20

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3 Number EN 0074024	r EN 0074024	Date
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		JUL 2023

NOTES:

- 1. FOR AREAS WHERE CBR VALUE IS BELOW 2%, CARRY OUT THE FOLLOWING:
- -THE SOFT AREA IS TO BE EXCAVATED OUT FULLY AND REPLACED WITH A GENERAL FILL MATERIAL (CLASS 1A/1B) TO TIL SPECIFICATION TO THE UNDERSIDE OF A GEOGRID LAYER (ENKAGRID TC 40 OR SIMILAR 40kN/m). SEPARATION GEOTEXTILE TO BE PLACED BETWEEN THE SUBGRADE AND CAPPING.
- AN ENGINEER SHOULD INSPECT THE SOFT AREA WHEN IT HAS BEEN FULLY EXCAVATED OUT PRIOR TO THE FILL /STABILISED MATERIAL BEEN PLACED/WORKED.
- 2. FOR AREAS WHERE CBR VALUES ARE BETWEEN 2% AND 5%, CARRY OUT THE FOLLOWING: -THE SOIL IS TO BE EXCAVATED OUT FULLY AND REPLACED WITH A CAPPING MATERIAL TYPE 6F1/6F2 TO TII SPECIFICATIONS. DEPTHS OF CAPPING MATERIAL AS PER TABLE 1. SEPARATIÓN GEOTEXTILE TO BE PLACED BETWEEN THE SUBGRADE AND CAPPING.

TE PAVING (COLOUR TBC) ON 50mm THICK CLASS 1 MORTAR
JRSE – 100mm MINIMUM THICKNESS OF AC32 DENSE BASE
ES TO TII SPECIFICATION FOR ROAD WORKS CL 3.1.2.
3-BASE - 150mm MINIMUM THICKNESS OF GRANULAR MATERIAL TO TH SPECIFICATION FOR ROAD WORKS CLAUSE 804
200-100 DECAST CONCRETE KERD WITH CONCRETE HAUNCH DANDING
- ZUUXIUU PRELAST CUNCRETE KERB WITH CUNCRETE HAUNCH BANDING
SURFACE COURSE – 45mm HRA (IS EN 13108-4). 10 OR 14mm CHIP SIZE TO TIL SPECIFICATION FOR ROADWORKS
BINDER COURSE – 60mm THICKNESS OF AC20 DENSE BIN 70/100 DES 10 TH
- CAPPING - 6E2 (OLIARRIED) GRANULAR CAPPING MATERIAL TO TH SRW
E
2 ²
TOP OF KERB
<u> </u>
1.25
KAIJEU KAMP

NOTE:

REFER TO DRAWING: R127-CSC-ZZ-XX-DR-C-0001 FOR CROSS SECTIONS LOCATIONS.

	Reddy Architecture & Urbanism	CS Consulting Group
	39 Housing Units at Camross & Carrownanty, Ballymote, Co Sligo	DUBLIN LONDON LIMERICK
+	Bailymote, de enge	19-22 Dame Street, Dublin 2.
	Proposed Road Cross Sections	T: +353 (0)1 5480863 F: +353 (0)1 9011355 e: info@csconsulting.ie

Title	Ballymote, Co Sligo Proposed Road Cross Sections	Head Office 19-22 Dame Street, Dublin 2. T: +353 (0)1 5480863 F: +353 (0)1 9011355 e: info@csconsulting.ie w: www.csconsulting.ie
Dwg. No.	R127-CSC-ZZ-XX-DR-C-0017	Quality I.S. EN ISO 9001:2008 Environment I.S. EN ISO 14001:2004
Date Oct 2023	Drn by Chkd by Aprvd by Scale Revision AB GL NB AS SHOWN P2	NSAI Energy I.S. EN ISO 50001:2011 Certified Health & Safety OHSAS 18001:2007

MH Name	S16
	1.00
Hor Scale 500	
Ver Scale 100	
Datum (m)46.000	
PN Dia (mm)	
Slope (1:X)	
Cover Level (m)	72.820
Invert Level (m)	69.050
Length (m)	

PROPOSED STORM WATER LONGITUDINAL SECTIONS

SCALE Horizontal 1:500; Vertical 1:100

SECTION 179A APPLICATION

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MH Name	S5	S7	
		1.003	
Hor Scale 500			
Ver Scale 100			
Datum (m)44.000			
PN		S3.000	
Dia (mm)		225	
Slope (1:X)		100.0	
Cover Level (m)	69.585	69.350	
Invert Level (m)		67.926 68.050	
Length (m)		12.433	

	Rev. N	lo. Date	REVISION NOTE	Drn. By	Chkd. By
's drawings	P1	2023.11.17	ISSUED FOR INFORMATION	AD	GL
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MH Name	F7	F6	
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PN Dia (mm)			F
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Length (m)			39
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PROPOSED FOUL SEWER LONGITUDINAL SECTIONS

SCALE Horizontal 1:500; Vertical 1:100

SECTION 179A APPLICATION

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MH Name	FQ		F	3
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	1.0	000		
Lier Coole 500				
Hor Scale 500				
Ver Scale 100				
Ver Scale 100				
Datum (m)46 000				
PN			F2.000	
Dia (mm)			225	
Slope (1:X)			77.6	
	0	0	21	
Cover Level (m)	82	53	13	
	2	2	<u> </u>	
		2		
	~	-+-	+	
Invert Level (m)	48	17	335	
	0	0		
	ê	ő	ů ů	
Length (m)			32 665	
			32.003	

				R127
's drawings. Inction with all other Architectural and Engineering drawings and Specifications. IG. Use figured dimensions only. e reproduced or transmitted in any /stem of any nature without the written except as agreed	Rev. No. Date REVISION NOTE P1 2023.11.17 ISSUED FOR INFORMATION P2 2024.01.11 REVISED SITE LAYOUT	Drn. By Chkd. By AD GL AB GL I I I I I I	ArchitectReddy Architecture & UrbanismProject39 Housing Units at Camross & Carrownanty, Ballymote, Co SligoTitleProposed Foul Sewer Longitudinal Sections	CS Consulting Group DUBLIN LONDON LIMERICK Head Office 19-22 Dame Street, Dublin 2. T: +353 (0)1 5480863 e: info@csconsulting.ie w: www.csconsulting.ie
the document was originally issued. ce Number EN 0074024			Dwg. No. R127-CSC-ZZ-XX-DR-C-0019 Date Dm by Chkd by Aprvd by Scale Revision Oct 2023 AD GL NB As Shown @A1 P2	Quality I.S. EN ISO 9001:2008 Environment I.S. EN ISO 14001:2004 Energy I.S. EN ISO 50001:2011 Health & Safety OHSAS 18001:2007

