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	Pre-Cast Concrete Manhole with Precast Base	А3	0	0											
	Private Side Inspection Chamber	A3	0	0											
	Access Junction	А3	0	0											
	Drainage Precast Concrete Gully	A4	0	0											
5000-02-112	Drainage Glly Grating	A4	0	0											
5000-03-550	Foundation/Excavation Detail	A4	0	0											
5006-101	Proposed Drainage Layout	Α1	Α	Α											
5006-RT-001	Drainage Impact Assessment	A4	Α	Α											
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ISSUED BY: Gisting P.

Page 1 of 1

CHECKED BY: Kayan Humphub



DRAINAGE NOTES:

- Refer to architectural drawings for all setting out of internal below ground drainage & for cover & invert levels.
- 2. The Contractor shall be responsible for checking all dimensions and levels shown against all other drawings pertaining to this part of the works.
- 3. Refer to architects drawings for locations of rainwater downpipes, soil vent pipes and soil stacks.
- All internal pipework to be concrete encased.
- All external pipework with less than 900mm cover to crown in unpaved areas and 1200mm cover to crown in paved areas to be concrete encased.
- 6. Concrete encasement to consist of minimum 150mm grade C12/15 leanmix concrete.
- 7. Rocker pipes should be provided at all locations where:
 - 7.1. A pipe enters or leaves a manhole, pumping station or other rigid structure.
 - 7.2. A pipe enters or leaves a concrete encasement.
 - 7.3. At any location as directed by the Engineer.
 - 7.4. Rocker pipe joint to be located no more than 150mm from the outside face of the structure to which the pipework is serving.

The effective length of the rocker pipe should be:

- Pipe diameter 150mm to 600mm:
- Pipe diameter 600mm to 750mm: 1.00m
- Pipe diameter greater than 750mm: 1.25m
- All rocker pipes are to be formed by cutting and trimming a length of spigot & socket pipe to form a spigot at the cut end, thereby forming spigot & socket joints at both ends of the rocker pipe.
- 9. All manholes shown are precast concrete with minimum 150mm concrete surround unless noted otherwise.
- 10. Road gullies to be precast concrete with "LION" lockable type covers, with ductile iron grating D400 to comply with I.S. EN 124:2015-2
- All lines to road gullies to be 150mm ø UPVC pipes unless 11. noted otherwise.
- 12. All foul pop-ups to be 100mmØ UPVC unless noted otherwise.
- 13. All foul spurs to pop-ups to be 100mm Ø UPVC SN4 @ 1:40 falls unless noted otherwise.
- All internal manholes to have lockable double sealed covers 14. & frames.(KMHD 600L in stainless steel by Richmond Trading or equivalent)
- 15. All manhole covers to be Class D Heavy Duty ductile iron cover. Cover and frame to I.S. EN 124:2015-2.
- Channel drain to be type ACO Multi Drain Heelguard with stainless steel QuickLock Grating or equivalent. Load Class B125 at front doors, Load Class C250 everywhere else.
- All spurs to rainwater pipes to be 100mm Ø UPVC SN4 @ 17. 1:40 falls unless noted otherwise.
- Storm lines between manholes to be 225mm Ø Ridgidrain ADS Polyethylene Pipes or equivalent unless noted otherwise.
- Foul lines between manholes to be 150mm Ø UPVC SN8 19. Unless Noted Otherwise. All internal foul lines to be 100mm Ø UPVC SN4 @ 1:40 falls unless noted otherwise.
- 20 All foul lines from internal gullies to be 100mm Ø UPVC SN4 @ 1:40 falls unless noted otherwise.
- All foul lines from inspection chamber at site boundary to mainline to be 100mm Ø UPVC SN8 @ 1:40 falls unless noted otherwise.
- 22. All spur connections shown on lines to be 45° 'Y' bends unless noted otherwise.
- All French Drains to be 150mm Ø perforated UPVC pipe wrapped in geotextile typically laid above retaining wall footings and surrounded in minimum 200mm of clean washed stone unless noted otherwise.
- All drainage materials and workmanship to comply with local authority & DJF Specification.

- Setting out of pop-ups internally to be coordinated by Contractor in conjunction with Architects Drawings.
- 26. All Design and Installation Forms are to be included in the Handover File.

- These Notes are to be read in conjunction with all other Tender, Construction and Contract Drawings, Details, Specifications, Bill of Quantities and Documents
- The Contractor is to ensure that all works will be undertaken in accordance with good building practice and current Building Regulations (including Technical Guidance Documents A to M inclusive and all relevant amendments). If in doubt, request clarification from DJF





Project Title	Notes
Drawing Title General	Drainage Notes

	ISSUED FOR CONSTRUCTION DETAILS			26.03.21 DATE		
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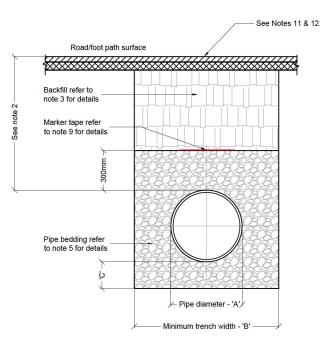
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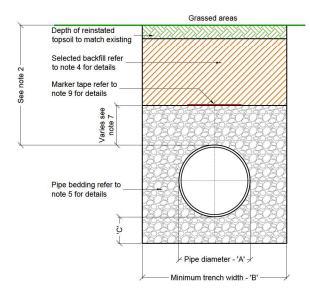


Project Title	Notes
Drawing Title General	Drainage Notes

	ISSUED FOR CONSTRUCTION DETAILS			26.03.21 DATE		
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Trench Backfill and Bedding Cross section in roads Scale N.T.S



Trench Backfill and Bedding Cross section in grassed areas Scale N.T.S

- All dimensions are in millimeters (mm) unless noted otherwise
- The minimum depth of cover from the finished surface to the crown of gravity pipes without protection should be as follows:
 - Gardens and pathways without any possibility of vehicular access depth not less than 0.5m. (this would normally relate to drains in private property, shallow pipes of this nature are undesirable and should be installed in accordance with the current building
 - regulations).
 Driveways, footways, parking areas and yards with height restrictions to prevent entry by vehicles with a gross vehicle weight in excess of 7.5 tonnes - depth not less than
 - Driveways, footways, parking areas and narrow streets without footways (e.g. mews developments) with limited access for vehicles with a gross vehicle weight in excess of 7.5 tonnes - depth not less than 0.9 m.
 - Depths of sewers in gated estates shall be similar to that outlined above

 - b) Deputs of sewers in gated estates shall be similar to tract outlined above.
 Agricultural land and public open space depth not less than 0.9 m.
 Other roadways, highways and parking areas with unrestricted access to vehicles with a gross vehicle weight in excess of 7.5 tonnes depth not less than 1.2m.
 Clause 804 / 808 material in accordance with the Transport Infrastructure Ireland
- specification for road works is to be used as backfill material where the sewer main is located in roads, footpaths or when the nearest part of the trench is within 1m of the paved edge of the roadway. Clause 804 / 808 is to be compacted as per clause 802 of the Transport Infrastructure Ireland specification for road works. Clause 808 is to be used within 500mm of cement bound materials, concrete pavements, concrete structures or concrete products. Otherwise clause 804 may be used. Alternative backfill material to that described above (clause 804 or clause 808) of the pipe trench will only be allowed by Engineer where the roads authority in whose functional area the development is located, provides written approval to the developer to the use such alternative material evidence of this written approval to be provided to Engineer in advance of the commencement of works.
- Selected excavated material complying with the requirements of "acceptable material" as outlined on clause 601 of the TII specification for roadworks, table 6/1,class 8,class 2. May be used in green-field areas above granular pipe surround material subject to review by
- Pipe bedding shall comply with WIS 4-08-02 and IGN 4-08-01. The pipe bedding granular material shall be 14mm to 5mm (d/D 2/14) graded aggregate or 10mm (d/D 4/10) single sized aggregate to is EN 13242
- In soft ground conditions (CBR < 5) the material should be excavated and disposed of in accordance with the waste management act and clause 804 / 808 material in accordance with the Transport Infrastructure Ireland specification for road works shall replace the excavated material, wrapped in geo-textile wrapping. Alternatively, special pipe support arrangements, including piling etc. may be required where the depth of soft material is excessive. Such arrangements shall be subject to assessment by Engineer before advancing with the work.
 In green field areas, type B backfill (selected excavated material complying with the
- requirements of "acceptable material" as outlined on clause 601 of the TII specification for roadworks, table 6/1, class 9, class 2.) will be allowed above the side haunch granular material in the case of rigid pipes. A granular surround of a minimum, depth of 150mm above the crown of the pipe is required for flexible pipes and type B material may be used as backfill above this. All rising mains in greenfield areas shall have a minimum cover of
- 300mm of granular material above the external crown of the pipe.

 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 804 / 808 material in accordance with the Transport Infrastructure Ireland specification for road works. The granular material shall be laid above this void backfill material.
- Non degradable marker tape should be installed at the top of pipe bedding layer for sewers and rising mains, it should run continuously around manholes. 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 (if provided) and the discharge manhole.
- Trench widths for pipe sizes <80mm may be <500mm, subject to consideration being given to the trench depth, health & safety & construction access requirements.

 New road construction & surface finish to be to Engineer/Irish Water requirements.
- Existing road reinstatement to comply with current version of "guidelines for managing openings in public roads" by the Dept. of Transport, Tourism & Sport, or Transport Infrastructure Ireland requirements

Pipe diameter 'A' (mm)	Trench width 'B' (mm)
≤80 rising main	see note 10.
100	500
150 - 200	600
>200 - 350	750
>350 - 450	900

Pipe diameter 'A' (mm)	Depth of bedding 'C' (mm)
≤100	100
150 - 450	200

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It is to be read in conjunction with all other Tender, Construction and Contract
Details, Specifications, Bill of Quantities and Documents.

Actor is to ensure that all works will be undertaken in accordance with good buildind current Building Regulations (including Technical Guidance Documents A to M

DJF DJF ENGINEERING SERVICES LTD.

DETAILS

Underground Services

CONSTRUCTION

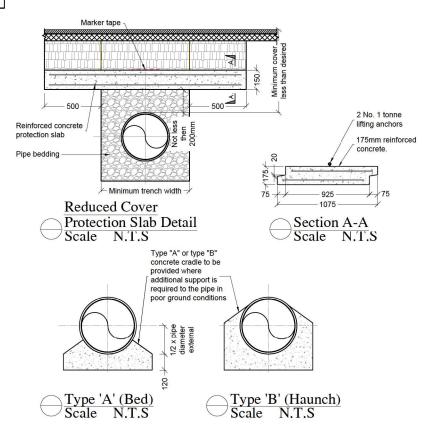
Trench Backfill and Bedding

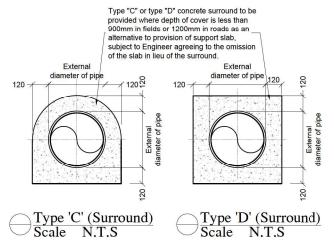
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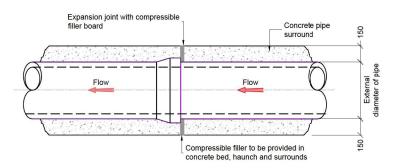
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Irish Water Detail STD-WW-07

Where services are intended to be taken in charge by a Service Provider, Service Provider Details take precedence over the above







Spigot and Socket Joint Scale N.T.S

- IERAL DETAIL NOTES:
 This Detail is not to be scaled.
 This Detail is to be read in conjunction with all other Tender, Construction and Contract Drawings, Details, Specifications, Bill of Quantities and Documents.
 The Contractor is to ensure that all works will be undertaken in accordance with good buildir practice and current Building Regulations (including Technical Guidance Documents A to M inclusive and all relevant amendments).

DJF DJF ENGINEERING SERVICES LTD.

DETAILS

Underground Services

CONSTRUCTION

Concrete Protection Slab, Bed, Haunch, and Surround, to Pipes

- For any slabbing works to be carried out within the vicinity of the pipeline, a method statement is to be submitted for review Engineer 2 Marker tape to be placed above the slab and along the direction of
- Concrete to be grade C30/35
- Minimum cover to steel reinforcement = 40mm Slabs to be designed for use under a HB25 load in accordance with BS5400-2. Design to be submitted to Engineer for assessment prior to installation.
- The soil on which the slab rests must have a CBR of 4% or greater Where the CBR is less than 4% the material shall be removed and replaced with imported granular material as approved by Engineer.
- If direction of pipeline and direction of traffic flow are parallel, the direction of lay of the slab is to be against the direction of traffic flow

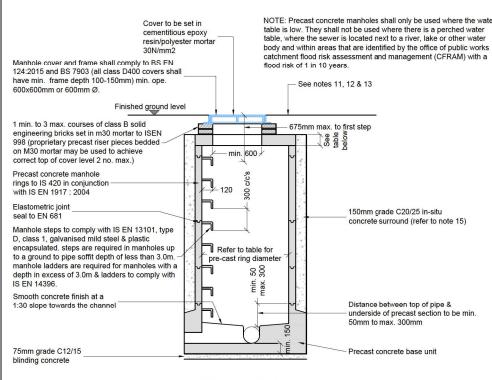


- If pipeline protection slab is to be used solely for impact protection & overall depth of cover is greater than 1.2m. the distance between underside of slab & top of pipe may be increased after consultation
- with Engineer. All dimensions are in millimeters (mm) unless noted otherwise.
- Concrete bed and haunches may be required to provide additional support in poor ground conditions. Proposals to be provided to Engineer with geotechnical report supporting their use.
- Concrete surrounds shall have a minimum thickness of 150mm with an absolute minimum depth of cover above the external crown of the pipe of 750mm.
- All concrete to be in accordance with IS EN 206 and to be grade C16/20 to IS EN206
- The haunches and surrounds to be formed using form work to provide a rough cast finish. 13.
- Expansion joints in the concrete shall be provided at all pipe joints to allow for pipe flexibility, compressible filler board to be in accordance with BS EN 622-1 and BS EN 622-4, and to be 18mm thick.
- Polyethylene and uPVC pipes shall be wrapped in plastic sheeting having a composition in accordance with BS 6076 before being cast into concrete
- 16. Bituminous material shall not be put in contact with PE or PVC pipes.

Irish Water Detail STD-WW-8

Where services are intended to be taken in charge by a Service Provider, Service Provider Details take precedence over the above





- All dimensions are in millimeters (mm) unless noted otherwise 2.
- Pre-cast manholes units: complying with requirements of IS EN 1917 and IS 420.
- 3. Pre-cast concrete base incorporating channels, benching etc. subject to Engineer review and complying with IS EN 1917 & IS 420.
- In situations where P.C.C. manhole bases have redundant In situations where P.C.C. marinole bases have redundant channels, these shall be plugged and filled by scabbling, and infilled with grade C20/25 concrete to match existing base and benched to suit flow within the manhole base.

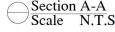
 Manholes greater than 3m in depth will require a detailed structural
- design and be subject to Engineer review.

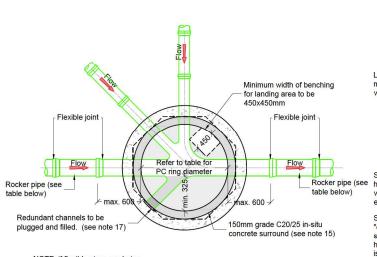
 Pre-cast concrete roof slabs to be used subject to Engineer review and compliance with IS 420.
- Covers and frames shall be suitable for road and traffic conditions subject to review by Engineer.

 200mm all around x 100mm deep, C20/25 concrete plinth
- complete with bull nose finish and to be provided complete with mild steel reinforcement link around covers in green areas.
- All chambers to be checked for uplift by the developer based on ground conditions within the site. should anti floatation measures
- be required they shall be subject to review by Engineer All concrete to be in accordance with IS EN 206: 2013
- Any special road reinstatement around cover & frame shall be to road authority's requirements.

 New road construction & surface finish to be to road authority
- 12. requirements.
- Existing road reinstatement to comply with current version of "guidelines for managing openings in public roads" by the Dept. of Transport, Tourism & Sport, or Transport Infrastructure Ireland requirements.
- 14. If depth from ground to pipe soffit is greater than 6m deep, a site specific engineered solution for access shall be provided.

 15. Proprietary watertight PCC manhole ring systems with a wall thickness > 125mm, & a water tight piont sealing system, may be used without concrete surround, subject to the ground water level
- at the manhole being low, & subject to review by Engineer. The internal manhole diameters shown in the table below are minimum dimensions and will increase depending on the number and diameter of additional inlets and finished with a 1:3 sand/cement finish to suit flow of inlets and outlet.





NOTE: if flexible pipes are being used, rocker pipes are not required

Plan N.T.S Scale

		675mm max. to first ladder rung
	See table below	Cover slab
	, t a (1200mm shaft ∅ 900mm min. clear access behind ladder
	Ladders in manholes to comply — with IS EN 14396	150mm max. E to centre line of stringer 0
е	Self cleaning toe holes to be provided where channel exceeds 600mm wide	190 July 190
	Stainless steel chain in "down" position secured to restraining	E
	hook, when chamber — is occupied where the pipe diameter is 450mm or more	Manhole Detail >3m & <6m Ground to Soffit Depth Scale N.T.S

✓ Scale N.T.S (Note: on manholes <1.5mØ, reducing slab not to be used & PCC rings to continue up to cover slab)

Minimu	ım manhole diamete	ers	
Diameter of largest pipe in manhole (mm)	Internal diameter of manhole (mm)	Min. precast roof slab effective thickness (mm)	Min. in-situ roof slab thickness (mm)
Less than 375	1200	160	225
375 to 450	1350	160	225
5001. 750	1500	170	225

Rocker pipe	elength
Pipe diameter (mm)	Rocker pipe length (mm)
150 to 600	600
Greater than 600 to 750	1000
Greater than 750	1250

Sewers greater than 450mm \varnothing are outside the scope of the standard details Manhole size of these chambers may be required due to multiple pipes within

Irish Water Detail STD-WW-10A

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If in doubt, request clarification from DJF

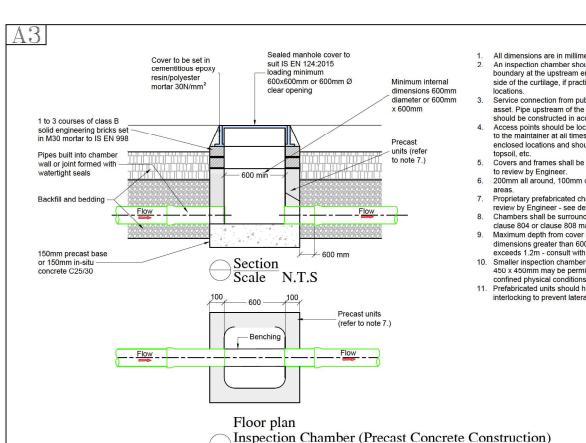
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DETAILS

Underground Services

CONSTRUCTION Cast Concrete Manhole With Precast Base

0 REV	ISSUED FOR CONS DETAILS	TRUCTIO	N		COS CH'D	26.03.21 DATE
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- All dimensions are in millimetres (mm) unless noted otherwise. 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, consult with Engineer on alternative
- Service connection from public sewer to property boundary is a public
- Service connection from public sewer to properly boundary is a public asset. Pipe upstream of the property boundary is a private drain and should be constructed in accordance with the building.

 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 locations and should never be overlain with surface dressing,
- Covers and frames shall be suitable for road and traffic conditions subject
- to review by Engineer. 200mm all around, 100mm deep concrete plinth around covers in green
- Proprietary prefabricated chamber units may also be used, subject to review by Engineer - see detail below
- Chambers shall be surrounded by a minimum of 150mm compacted clause 804 or clause 808 material.
- Maximum depth from cover level to invert of pipe = 1.2m. Internal dimensions greater than 600 x 600mm or 600mm \varnothing required where depth
- exceeds 1.2m consult with Engineer.

 Smaller inspection chambers with internal dimensions of 450mm Ø OR 450 x 450mm may be permitted subject to approval by Engineer where confined physical conditions exist.

 Prefabricated units should have water tight joints and should be
- interlocking to prevent lateral movement of individual sections of the unit

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0 ISSUED FOR CONST REV DETAILS

N.T.S

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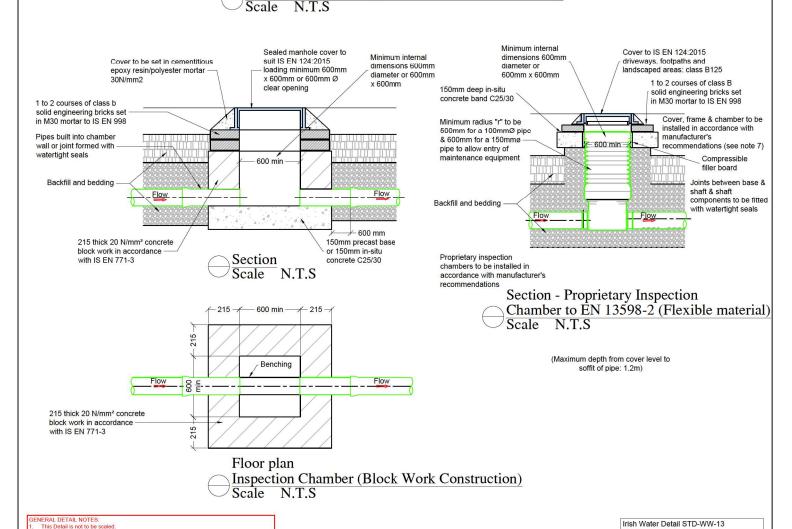
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CONSTRUCTION

Private Side

Inspection Chamber



Underground Services

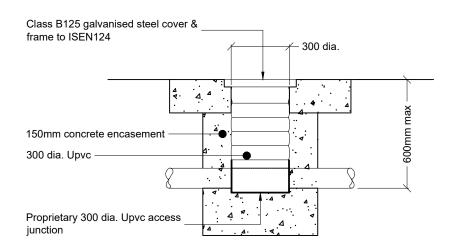
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DETAILS

DJF

DJF ENGINEERING SERVICES LTD.





Typical Access Junction detail Scale 1:20

GENERAL DETAIL NOTES:
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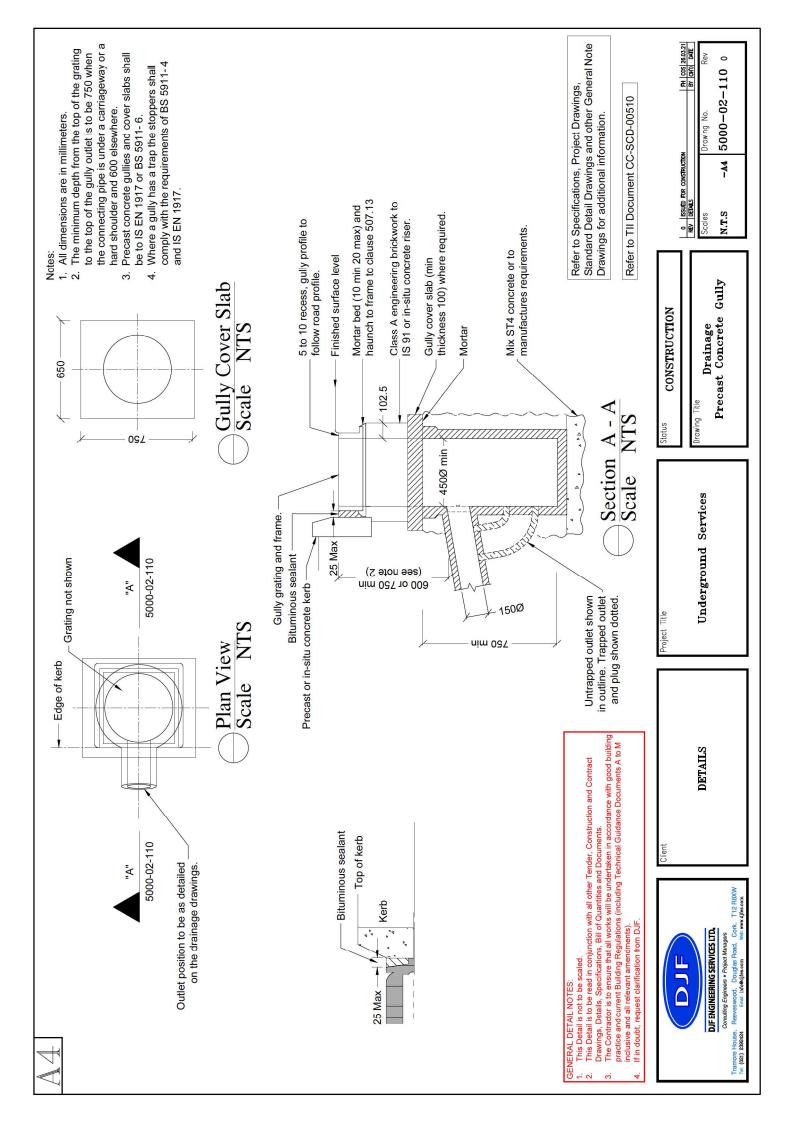


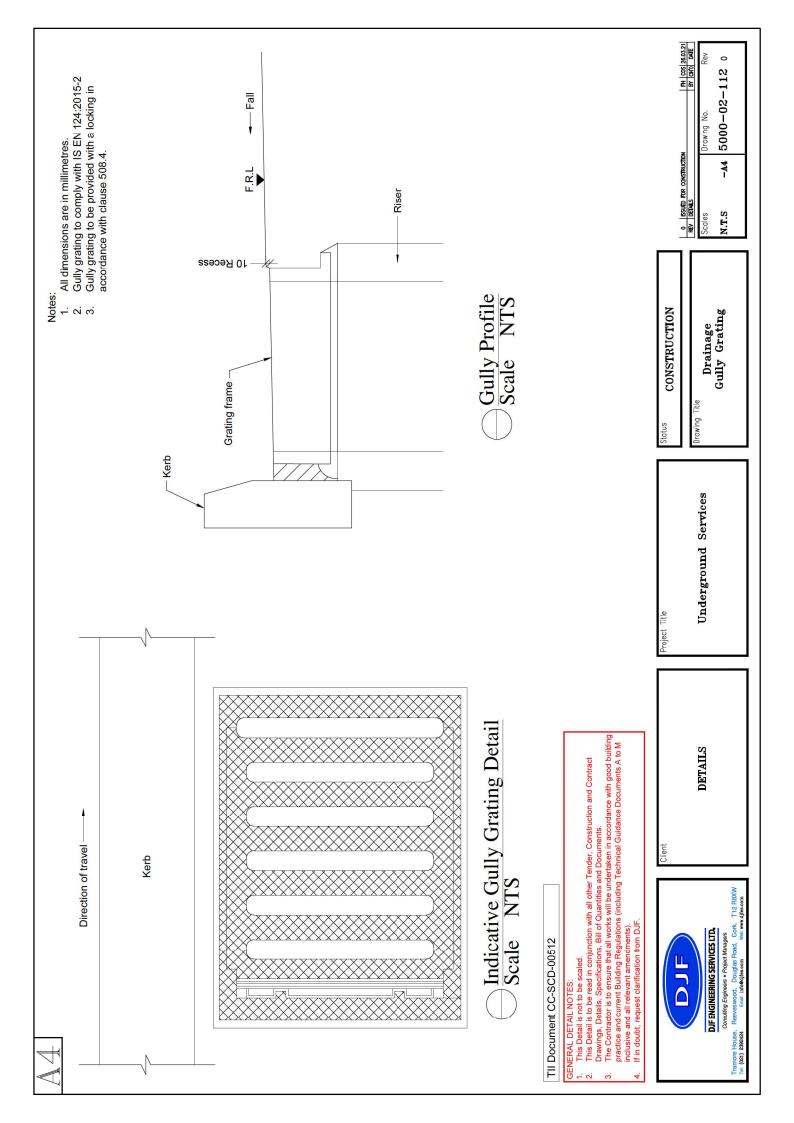
DETAILS

Project Title Underground Services

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	Access Junction		
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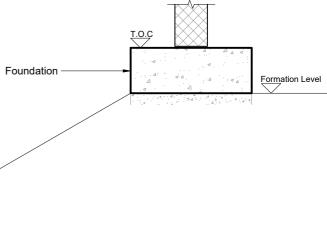
	ISSUED FOR	INFORMATION			SH CH'D	15.11.23 DATE
Scal N.T		-A3	Drawing No. 5000-02-	07	'0	Rev A

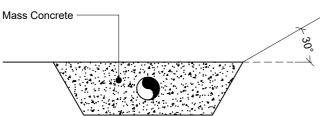




NOTE:

It is essential to check that all ground within a 30° line extending down and away from all foundations is undisturbed or when disturbed is removed entirely and backfilled with mass concrete. This detail shows a typical method of complying with this requirement which should be checked for all future works in addition to existing works. Alternatively a lower formation level to the foundation may be achieved by upfilling with mass concrete. In either case, the lower formation should be excavated and backfilled before the higher.





Foundation/Excavation Detail Scale N.T.S

GENERAL DETAIL NOTES:

- This Detail is not to be scaled.
- This Detail is to be read in conjunction with all other Tender, Construction and Contract Drawings, Details, Specifications, Bill of Quantities and Documents.
- The Contractor is to ensure that all works will be undertaken in accordance with good building practice and current Building Regulations (including Technical Guidance Documents A to M inclusive and all relevant amendments).

 If in doubt, request clarification from DJF



Status	CONSTRUCTION
Client	
	DETAILS

	Project Title Site Structures				
	Drawing Title				
П	Foundation/Excavation				
Ш	Detail				

	ISSUED FOR CONSTRUCTION			23.02.23			
REV	DETAILS	BY	CH'D	DATE			
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