

**GENERAL NOTES**

- DO NOT SCALE THIS DRAWING. WORK ONLY TO FIGURED DIMENSIONS.
- FOR ALL RELEVANT NOTES, REFER TO STRUCTURAL AND CIVIL ENGINEERING PERFORMANCE SPECIFICATION.
- ANY DISCREPANCIES ARE TO BE REPORTED TO PINNACLE CONSULTING ENGINEERS IMMEDIATELY.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ENGINEERS, ARCHITECTS AND SUB-CONTRACTORS DRAWINGS AND DETAILS.



REFERENCE DRAWINGS - TO BE READ IN CONJUNCTION WITH THIS DRAWING

5301-REV A-Preliminary Foul Sewer Structure Tables				
5302-REV A-Preliminary Surface Water Structure Tables				
5400-REV A-Preliminary Surface Water Longsections Sheet 1 of 3				
5401-REV A-Preliminary Surface Water Longsections Sheet 2 of 3				
5402-REV A-Preliminary Surface Water Longsections Sheet 3 of 3				
5800-REV A-Preliminary Foul Sewer Longsections Sheet 1 of 3				
5801-REV A-Preliminary Foul Sewer Longsections Sheet 2 of 3				
5802-REV A-Preliminary Foul Sewer Longsections Sheet 3 of 3				

C	FOUL & SURFACE WATER CONNECTIONS REVISED	FJ	SO	02.06.22
B	FOR PLANNING	JS	SO	05.05.2022
A	FOR INFORMATION	JS	SO	14.04.2022
REV	DESCRIPTION	BY	CHK	DATE
CLIENT				

**KELLAND HOMES LTD.**

PROJECT  
**CLONBURRIS SDZ**

DRAWING TITLE  
**PRELIMINARY FOUL SEWER AND SURFACE WATER LAYOUT**

**PINNACLE CONSULTING ENGINEERS**

GROSVENOR COURT,  
67A PATRICK STREET,  
DUN LAOGHAIRE,  
COUNTY DUBLIN  
IRELAND. TELEPHONE: +353 1231 1041

WELWYN GARDEN CITY | NORWICH | LONDON | THE HAGUE

DRAWING STATUS			
<b>FOR PLANNING</b>			
SCALE @ AI	DATE	DRAWN BY	CHECKED
1:500	05.05.22	JS	SO
DRG NO.			REVISION
5300			C
COPYRIGHT PINNACLE			

- DRAINAGE NOTES:**
- ALL FOUL SEWERS, MANHOLES AND CONNECTIONS TO BE CONSTRUCTED IN ACCORDANCE WITH IRISH WATER CODE OF PRACTICE FOR WASTEWATER INFRASTRUCTURE AND IRISH WATER WASTEWATER INFRASTRUCTURE STANDARD DETAILS.
  - ALL FOUL SEWER HOUSE CONNECTIONS TO BE MIN 100MM Ø UPVC TO IS EN 1401 2009/2012, STIFFNESS CLASS BKN/M2 IN ACCORDANCE WITH IRISH WATER SPECIFICATIONS.
  - ALL PUBLIC FOUL SEWERS TO BE MINIMUM 225MM DIAMETER THERMOPLASTIC STRUCTURED WALL PIPES TO IS EN 13746 (2007/2009), TYPE SN8 AND WIS L-35-01 (2008) AND COMPLY WITH THE REQUIREMENTS OF THE IRISH WATER CODE OF PRACTICE.
  - ALL PUBLIC SURFACE WATER SEWERS TO BE MINIMUM 225 DIA. CLASS H CONCRETE TO EN 12450 B 15 & 2004, IN ACCORDANCE WITH THE GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS.
  - ALL SURFACE WATER CONNECTIONS TO BE MINIMUM 150MM Ø UPVC TO IS EN 1401 2009/2012 IN ACCORDANCE WITH THE GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS.
  - LOCATION AND INVERT LEVELS OF EXISTING MANHOLES OR OUTFALL POINTS, WHERE APPLICABLE TO BE VERIFIED BY CONTRACTOR PRIOR TO COMMENCEMENT OF DRAINAGE WORKS.
  - ALL FOUL CONNECTIONS TO COMPLY WITH THE REQUIREMENTS OF THE IRISH WATER.
  - ALL FOUL SEWERS TO BE AIR TESTED IN ACCORDANCE WITH IRISH WATER SPECIFICATIONS.
  - ALL COVER LEVELS TO MATCH FINISHED ROAD/VERGE/FOOTPATH/CYCLETACK LEVELS UNLESS OTHERWISE STATED.
  - CONTRACTOR TO INCLUDE FOR CCTV SURVEY OF ALL SEWERS UPON COMPLETION OF SAME.

**LEGEND**

- PROPOSED FOUL SEWER
- PROPOSED FOUL SEWER WITH 150MM CONCRETE ENCASUREMENT
- PROPOSED FOUL INSPECTION CHAMBER AND SERVICE CONNECTION AS PER IRISH WATER STANDARD DETAIL STD-WW-03
- PROPOSED SURFACE WATER SEWER
- PROPOSED STORM ARMSTRONG JOINT (HOUSE CONNECTION DIRECT TO MAINS DRAINAGE)
- PROPOSED BACKDROP MANHOLE
- PROPOSED ROAD GULLY
- SURFACE WATER HOUSE CONNECTION
- PROPOSED ATTENUATION FACILITY
- EXISTING PUBLIC SURFACE
- EXISTING PUBLIC FOUL SEWER
- SITE BOUNDARY

**GENERAL NOTES**

- DO NOT SCALE THIS DRAWING. WORK ONLY TO FIGURED DIMENSIONS.
- FOR ALL RELEVANT NOTES, REFER TO STRUCTURAL AND CIVIL ENGINEERING PERFORMANCE SPECIFICATION.
- ANY DISCREPANCIES ARE TO BE REPORTED TO PINNACLE CONSULTING ENGINEERS IMMEDIATELY.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ENGINEERS, ARCHITECTS AND SUB-CONTRACTORS DRAWINGS AND DETAILS.



REFERENCE DRAWINGS - TO BE READ IN CONJUNCTION WITH THIS DRAWING

5301-REV A-Preliminary Foul Sewer Structure Tables
5302-REV A-Preliminary Surface Water Structure Tables
5400-REV A-Preliminary Surface Water Longsections Sheet 1 of 3
5401-REV A-Preliminary Surface Water Longsections Sheet 2 of 3
5402-REV A-Preliminary Surface Water Longsections Sheet 3 of 3
5800-REV A-Preliminary Foul Sewer Longsections Sheet 1 of 3
5801-REV A-Preliminary Foul Sewer Longsections Sheet 2 of 3
5802-REV A-Preliminary Foul Sewer Longsections Sheet 3 of 3

REV	DESCRIPTION	BY	CHK	DATE
C	FOUL & SURFACE WATER CONNECTIONS REVISED	FJ	SO	02.06.22
B	FOR PLANNING	JS	SO	05.05.2022
A	FOR INFORMATION	JS	SO	14.04.2022

**KELLAND HOMES LTD.**

PROJECT  
**CLONBURRISH SDZ**

DRAWING TITLE  
**PRELIMINARY FOUL SEWER AND SURFACE WATER LAYOUT**

**PINNACLE CONSULTING ENGINEERS**

GROSVENOR COURT,  
67A PATRICK STREET,  
DUN LAOGHAIRE,  
COUNTY DUBLIN  
IRELAND

TELEPHONE: +353 1231 1041

WELWYN GARDEN CITY | NORWICH | LONDON | THE HAGUE

DRAWING STATUS

<b>FOR PLANNING</b>			
SCALE @ AI	DATE	DRAWN BY	CHECKED
1:500	05.05.22	JS	SO
DRG NO.	REVISION		
5300	C		

COPYRIGHT PINNACLE

- DRAINAGE NOTES:**
- ALL FOUL SEWERS, MANHOLES AND CONNECTIONS TO BE CONSTRUCTED IN ACCORDANCE WITH IRISH WATER CODE OF PRACTICE FOR WASTEWATER INFRASTRUCTURE AND IRISH WATER WASTEWATER INFRASTRUCTURE STANDARD DETAILS.
  - ALL FOUL SEWER HOUSE CONNECTIONS TO BE MIN 100mm Ø UPVC TO IS EN 1401 2009/2012, STIFFNESS CLASS BKN/M2 IN ACCORDANCE WITH IRISH WATER SPECIFICATIONS.
  - ALL PUBLIC FOUL SEWERS TO BE MINIMUM 225mm DIAMETER THERMOPLASTIC STRUCTURED WALL PIPES TO IS EN 13746 (2007/2009), TYPE S8B AND WIS 4-35-01 (2008) AND COMPLY WITH THE REQUIREMENTS OF THE IRISH WATER CODE OF PRACTICE.
  - ALL PUBLIC SURFACE WATER SEWERS TO BE MINIMUM 225 DIA. CLASS H CONCRETE TO EN 918 & IS 6 2004 IN ACCORDANCE WITH THE GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS.
  - ALL SURFACE WATER CONNECTIONS TO BE MINIMUM 225 DIA. CLASS H CONCRETE TO EN 918 & IS 6 2004 IN ACCORDANCE WITH THE GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS.
  - LOCATION AND INVERT LEVELS OF EXISTING MANHOLES OR OUTFALL POINTS, WHERE APPLICABLE TO BE VERIFIED BY CONTRACTOR PRIOR TO COMMENCEMENT OF DRAINAGE WORKS.
  - ALL FOUL CONNECTIONS TO COMPLY WITH THE REQUIREMENTS OF THE IRISH WATER.
  - ALL FOUL SEWERS TO BE AIR TESTED IN ACCORDANCE WITH IRISH WATER SPECIFICATIONS.
  - ALL COVER LEVELS TO MATCH FINISHED ROAD/VERGE/FOOTPATH/CYCLETRACK LEVELS UNLESS OTHERWISE STATED.
  - CONTRACTOR TO INCLUDE FOR CCTV SURVEY OF ALL SEWERS UPON COMPLETION OF SAME.

**LEGEND**

- PROPOSED FOUL SEWER
- PROPOSED FOUL SEWER WITH 150MM CONCRETE ENCASMENT
- PROPOSED FOUL INSPECTION CHAMBER AND SERVICE CONNECTION AS PER IRISH WATER STANDARD DETAIL STD-WW-03
- PROPOSED SURFACE WATER SEWER
- PROPOSED STORM ARMSTRONG JOINT (HOUSE CONNECTION DIRECT TO MAINS DRAINAGE)
- PROPOSED BACKDROP MANHOLE
- PROPOSED ROAD GULLY
- SURFACE WATER HOUSE CONNECTION
- PROPOSED ATTENUATION FACILITY
- EXISTING PUBLIC SURFACE
- EXISTING PUBLIC FOUL SEWER
- SITE BOUNDARY

**GENERAL NOTES**

- DO NOT SCALE THIS DRAWING. WORK ONLY TO FIGURED DIMENSIONS.
- FOR ALL RELEVANT NOTES, REFER TO STRUCTURAL AND CIVIL ENGINEERING PERFORMANCE SPECIFICATION.
- ANY DISCREPANCIES ARE TO BE REPORTED TO PINNACLE CONSULTING ENGINEERS IMMEDIATELY.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ENGINEERS, ARCHITECTS AND SUB-CONTRACTORS DRAWINGS AND DETAILS.



REFERENCE DRAWINGS - TO BE READ IN CONJUNCTION WITH THIS DRAWING

5301-REV A-Preliminary Foul Sewer Structure Tables
5302-REV A-Preliminary Surface Water Structure Tables
5400-REV A-Preliminary Surface Water Longsections Sheet 1 of 3
5401-REV A-Preliminary Surface Water Longsections Sheet 2 of 3
5402-REV A-Preliminary Surface Water Longsections Sheet 3 of 3
5800-REV A-Preliminary Foul Sewer Longsections Sheet 1 of 3
5801-REV A-Preliminary Foul Sewer Longsections Sheet 2 of 3
5802-REV A-Preliminary Foul Sewer Longsections Sheet 3 of 3

REV	DESCRIPTION	BY	CHK	DATE
C	FOUL & SURFACE WATER CONNECTIONS REVISED	FJ	SO	02.06.22
B	FOR PLANNING	JS	SO	05.05.2022
A	FOR INFORMATION	JS	SO	14.04.2022

CLIENT  
**KELLAND HOMES LTD.**

PROJECT  
**CLONBURRIS SDZ**

DRAWING TITLE  
**PRELIMINARY FOUL SEWER AND SURFACE WATER LAYOUT**

**PINNACLE CONSULTING ENGINEERS**

GROSVENOR COURT,  
67A PATRICK STREET,  
DUN LAOGHAIRE,  
COUNTY DUBLIN  
IRELAND. TELEPHONE: +353 1231 1041

MELWYN GARDEN CITY | NORWICH | LONDON | THE HAGUE

DRAWING STATUS

<b>FOR PLANNING</b>			
SCALE @ AI	DATE	DRAWN BY	CHECKED
1:500	05.05.22	JS	SO
DRG NO.	REVISION		
5300	C		

COPYRIGHT PINNACLE

- DRAINAGE NOTES:**
- ALL FOUL SEWERS, MANHOLES AND CONNECTIONS TO BE CONSTRUCTED IN ACCORDANCE WITH IRISH WATER CODE OF PRACTICE FOR WASTEWATER INFRASTRUCTURE AND IRISH WATER WASTEWATER INFRASTRUCTURE STANDARD DETAILS.
  - ALL FOUL SEWER HOUSE CONNECTIONS TO BE MIN 100mm Ø UPVC TO IS EN 1401 2009/2012, STIFFNESS CLASS BKN/M2 IN ACCORDANCE WITH IRISH WATER SPECIFICATIONS.
  - ALL PUBLIC FOUL SEWERS TO BE MINIMUM 225mm DIAMETER THERMOPLASTIC STRUCTURED WALL PIPES TO IS EN 13746 (2007/2009), TYPE S8B AND WIS 4-35-01 (2008) AND COMPLY WITH THE REQUIREMENTS OF THE IRISH WATER CODE OF PRACTICE.
  - ALL PUBLIC SURFACE WATER SEWERS TO BE MINIMUM 225 DIA. CLASS H CONCRETE TO EN 918 & IS 6 2004 IN ACCORDANCE WITH THE GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS.
  - ALL SURFACE WATER CONNECTIONS TO BE MINIMUM 100mm Ø UPVC TO IS EN 1401 2009/2012 IN ACCORDANCE WITH THE GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS.
  - LOCATION AND INVERT LEVELS OF EXISTING MANHOLES OR OUTFALL POINTS, WHERE APPLICABLE TO BE VERIFIED BY CONTRACTOR PRIOR TO COMMENCEMENT OF DRAINAGE WORKS.
  - ALL FOUL CONNECTIONS TO COMPLY WITH THE REQUIREMENTS OF THE IRISH WATER.
  - ALL FOUL SEWERS TO BE AIR TESTED IN ACCORDANCE WITH IRISH WATER SPECIFICATIONS.
  - ALL COVER LEVELS TO MATCH FINISHED ROAD/VERGE/FOOTPATH/CYCLETRACK LEVELS UNLESS OTHERWISE STATED.
  - CONTRACTOR TO INCLUDE FOR CCTV SURVEY OF ALL SEWERS UPON COMPLETION OF SAME.

**LEGEND**

- PROPOSED FOUL SEWER
- PROPOSED FOUL SEWER WITH 150MM CONCRETE ENCASMENT
- PROPOSED FOUL INSPECTION CHAMBER AND SERVICE CONNECTION AS PER IRISH WATER STANDARD DETAIL STD-WW-03
- PROPOSED SURFACE WATER SEWER
- PROPOSED STORM ARMSTRONG JOINT (HOUSE CONNECTION DIRECT TO MAINS DRAINAGE)
- PROPOSED BACKDROP MANHOLE
- PROPOSED ROAD GULLY
- SURFACE WATER HOUSE CONNECTION
- PROPOSED ATTENUATION FACILITY
- EXISTING PUBLIC SURFACE
- EXISTING PUBLIC FOUL SEWER
- SITE BOUNDARY

**GENERAL NOTES**

- DO NOT SCALE THIS DRAWING. WORK ONLY TO FIGURED DIMENSIONS.
- FOR ALL RELEVANT NOTES, REFER TO STRUCTURAL AND CIVIL ENGINEERING PERFORMANCE SPECIFICATION.
- ANY DISCREPANCIES ARE TO BE REPORTED TO PINNACLE CONSULTING ENGINEERS IMMEDIATELY.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ENGINEERS, ARCHITECTS AND SUB-CONTRACTORS DRAWINGS AND DETAILS.



REFERENCE DRAWINGS - TO BE READ IN CONJUNCTION WITH THIS DRAWING

5301-REV A-Preliminary Foul Sewer Structure Tables
5302-REV A-Preliminary Surface Water Structure Tables
5400-REV A-Preliminary Surface Water Longsections Sheet 1 of 3
5401-REV A-Preliminary Surface Water Longsections Sheet 2 of 3
5402-REV A-Preliminary Surface Water Longsections Sheet 3 of 3
5800-REV A-Preliminary Foul Sewer Longsections Sheet 1 of 3
5801-REV A-Preliminary Foul Sewer Longsections Sheet 2 of 3
5802-REV A-Preliminary Foul Sewer Longsections Sheet 3 of 3

REV	DESCRIPTION	BY	CHK	DATE
C	FOUL & SURFACE WATER CONNECTIONS REVISED	FJ	SO	02.06.22
B	FOR PLANNING	JS	SO	05.05.2022
A	FOR INFORMATION	JS	SO	14.04.2022

**KELLAND HOMES LTD.**

PROJECT  
**CLONBURRIS SDZ**

DRAWING TITLE  
**PRELIMINARY FOUL SEWER AND SURFACE WATER LAYOUT**



GROSVENOR COURT,  
67A PATRICK STREET,  
DUN LAOGHAIRE,  
COUNTY DUBLIN  
IRELAND

TELEPHONE: +353 1231 1041

WELWYN GARDEN CITY | NORWICH | LONDON | THE HAGUE

DRAWING STATUS

<b>FOR PLANNING</b>			
SCALE @ AI	DATE	DRAWN BY	CHECKED
1:500	05.05.22	JS	SO
DRG NO.	REVISION		
5300	C		

COPYRIGHT PINNACLE

- DRAINAGE NOTES:**
- ALL FOUL SEWERS, MANHOLES AND CONNECTIONS TO BE CONSTRUCTED IN ACCORDANCE WITH IRISH WATER CODE OF PRACTICE FOR WASTEWATER INFRASTRUCTURE AND IRISH WATER WASTEWATER INFRASTRUCTURE STANDARD DETAILS.
  - ALL FOUL SEWER HOUSE CONNECTIONS TO BE MIN 100mm Ø UPVC TO IS EN 1401 2009/2012, STIFFNESS CLASS BKN/M2 IN ACCORDANCE WITH IRISH WATER SPECIFICATIONS.
  - ALL PUBLIC FOUL SEWERS TO BE MINIMUM 225mm DIAMETER THERMOPLASTIC STRUCTURED WALL PIPES TO IS EN 13746 (2007/2009), TYPE S8B AND WIS 4-35-01 (2008) AND COMPLY WITH THE REQUIREMENTS OF THE IRISH WATER CODE OF PRACTICE.
  - ALL PUBLIC SURFACE WATER SEWERS TO BE MINIMUM 225 DIA. CLASS H CONCRETE TO EN 918 & IS 6 2004 IN ACCORDANCE WITH THE GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS.
  - ALL SURFACE WATER CONNECTIONS TO BE MINIMUM 100mm Ø UPVC TO IS EN 1401 2009/2012 IN ACCORDANCE WITH THE GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS.
  - LOCATION AND INVERT LEVELS OF EXISTING MANHOLES OR OUTFALL POINTS, WHERE APPLICABLE TO BE VERIFIED BY CONTRACTOR PRIOR TO COMMENCEMENT OF DRAINAGE WORKS.
  - ALL FOUL CONNECTIONS TO COMPLY WITH THE REQUIREMENTS OF THE IRISH WATER.
  - ALL FOUL SEWERS TO BE AIR TESTED IN ACCORDANCE WITH IRISH WATER SPECIFICATIONS.
  - ALL COVER LEVELS TO MATCH FINISHED ROAD/VERGE/FOOTPATH/CYCLETRACK LEVELS UNLESS OTHERWISE STATED.
  - CONTRACTOR TO INCLUDE FOR CCTV SURVEY OF ALL SEWERS UPON COMPLETION OF SAME.

**LEGEND**

	PROPOSED FOUL SEWER
	PROPOSED FOUL SEWER WITH 150MM CONCRETE ENCASMENT
	PROPOSED FOUL INSPECTION CHAMBER AND SERVICE CONNECTION AS PER IRISH WATER STANDARD DETAIL STD-WW-03
	PROPOSED SURFACE WATER SEWER
	PROPOSED STORM ARMSTRONG JOINT (HOUSE CONNECTION DIRECT TO MAINS DRAINAGE)
	PROPOSED BACKDROP MANHOLE
	PROPOSED ROAD GULLY
	SURFACE WATER HOUSE CONNECTION
	PROPOSED ATTENUATION FACILITY
	EXISTING PUBLIC SURFACE
	EXISTING PUBLIC FOUL SEWER
	SITE BOUNDARY

**GENERAL NOTES**

- DO NOT SCALE THIS DRAWING. WORK ONLY TO FIGURED DIMENSIONS.
- FOR ALL RELEVANT NOTES, REFER TO STRUCTURAL AND CIVIL ENGINEERING PERFORMANCE SPECIFICATION.
- ANY DISCREPANCIES ARE TO BE REPORTED TO PINNACLE CONSULTING ENGINEERS IMMEDIATELY.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ENGINEERS, ARCHITECTS AND SUB-CONTRACTORS DRAWINGS AND DETAILS.



REFERENCE DRAWINGS - TO BE READ IN CONJUNCTION WITH THIS DRAWING

5301-REV A-Preliminary Foul Sewer Structure Tables
5302-REV A-Preliminary Surface Water Structure Tables
5400-REV A-Preliminary Surface Water Longsections Sheet 1 of 3
5401-REV A-Preliminary Surface Water Longsections Sheet 2 of 3
5402-REV A-Preliminary Surface Water Longsections Sheet 3 of 3
5800-REV A-Preliminary Foul Sewer Longsections Sheet 1 of 3
5801-REV A-Preliminary Foul Sewer Longsections Sheet 2 of 3
5802-REV A-Preliminary Foul Sewer Longsections Sheet 3 of 3

REV	DESCRIPTION	BY	CHK	DATE
C	FOUL & SURFACE WATER CONNECTIONS REVISED	FJ	SO	02.06.22
B	FOR PLANNING	JS	SO	05.05.2022
A	FOR INFORMATION	JS	SO	14.04.2022

**KELLAND HOMES LTD.**

PROJECT  
CLONBURRIS SDZ

DRAWING TITLE  
**PRELIMINARY FOUL SEWER AND SURFACE WATER LAYOUT**

**PINNACLE CONSULTING ENGINEERS**

GROSVENOR COURT,  
67A PATRICK STREET,  
DUN LAOGHAIRE,  
COUNTY DUBLIN,  
IRELAND.

TELEPHONE: +353 1231 1041

WELWYN GARDEN CITY | NORWICH | LONDON | THE HAGUE

DRAWING STATUS

<b>FOR PLANNING</b>			
SCALE @ AI	DATE	DRAWN BY	CHECKED
1:500	05.05.22	JS	SO
DRG NO.	REVISION		
5300	C		

COPYRIGHT PINNACLE

- DRAINAGE NOTES:**
- ALL FOUL SEWERS, MANHOLES AND CONNECTIONS TO BE CONSTRUCTED IN ACCORDANCE WITH IRISH WATER CODE OF PRACTICE FOR WASTEWATER INFRASTRUCTURE AND IRISH WATER WASTEWATER INFRASTRUCTURE STANDARD DETAILS.
  - ALL FOUL SEWER HOUSE CONNECTIONS TO BE MIN 100mm Ø UPVC TO IS EN 1401 2009/2012, STIFFNESS CLASS BKN/M2 IN ACCORDANCE WITH IRISH WATER SPECIFICATIONS.
  - ALL PUBLIC FOUL SEWERS TO BE MINIMUM 225mm DIAMETER THERMOPLASTIC STRUCTURED WALL PIPES TO IS EN 13746 (2007/2009), TYPE S8 AND WIS 4-35-01 (2008) AND COMPLY WITH THE REQUIREMENTS OF THE IRISH WATER CODE OF PRACTICE.
  - ALL PUBLIC SURFACE WATER SEWERS TO BE MINIMUM 225 DIA. CLASS H CONCRETE TO EN 910 & IS 6 2004 IN ACCORDANCE WITH THE GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS.
  - ALL SURFACE WATER CONNECTIONS TO BE MINIMUM 150mm Ø UPVC TO IS EN 1401 2009/2012 IN ACCORDANCE WITH THE GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS.
  - LOCATION AND INVERT LEVELS OF EXISTING MANHOLES OR OUTFALL POINTS, WHERE APPLICABLE TO BE VERIFIED BY CONTRACTOR PRIOR TO COMMENCEMENT OF DRAINAGE WORKS.
  - ALL FOUL CONNECTIONS TO COMPLY WITH THE REQUIREMENTS OF THE IRISH WATER.
  - ALL FOUL SEWERS TO BE AIR TESTED IN ACCORDANCE WITH IRISH WATER SPECIFICATIONS.
  - ALL COVER LEVELS TO MATCH FINISHED ROAD/VERGE/FOOTPATH/CYCLETRACK LEVELS UNLESS OTHERWISE STATED.
  - CONTRACTOR TO INCLUDE FOR CCTV SURVEY OF ALL SEWERS UPON COMPLETION OF SAME.

**LEGEND**

- PROPOSED FOUL SEWER
- PROPOSED FOUL SEWER WITH 150MM CONCRETE ENCASMENT
- PROPOSED FOUL INSPECTION CHAMBER AND SERVICE CONNECTION AS PER IRISH WATER STANDARD DETAIL STD-WW-03
- PROPOSED SURFACE WATER SEWER
- PROPOSED STORM ARMSTRONG JOINT (HOUSE CONNECTION DIRECT TO MAINS DRAINAGE)
- PROPOSED BACKDROP MANHOLE
- PROPOSED ROAD GULLY
- SURFACE WATER HOUSE CONNECTION
- PROPOSED ATTENUATION FACILITY
- EXISTING PUBLIC SURFACE
- EXISTING PUBLIC FOUL SEWER
- SITE BOUNDARY

**GENERAL NOTES**

- DO NOT SCALE THIS DRAWING. WORK ONLY TO FIGURED DIMENSIONS.
- FOR ALL RELEVANT NOTES, REFER TO STRUCTURAL AND CIVIL ENGINEERING PERFORMANCE SPECIFICATION.
- ANY DISCREPANCIES ARE TO BE REPORTED TO PINNACLE CONSULTING ENGINEERS IMMEDIATELY.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ENGINEERS, ARCHITECTS AND SUB-CONTRACTORS DRAWINGS AND DETAILS.



REFERENCE DRAWINGS - TO BE READ IN CONJUNCTION WITH THIS DRAWING

5301-REV A-Preliminary Foul Sewer Structure Tables
5302-REV A-Preliminary Surface Water Structure Tables
5400-REV A-Preliminary Surface Water Longcations Sheet 1 of 3
5401-REV A-Preliminary Surface Water Longcations Sheet 2 of 3
5402-REV A-Preliminary Surface Water Longcations Sheet 3 of 3
5800-REV A-Preliminary Foul Sewer Longcations Sheet 1 of 3
5801-REV A-Preliminary Foul Sewer Longcations Sheet 2 of 3
5802-REV A-Preliminary Foul Sewer Longcations Sheet 3 of 3

REV	DESCRIPTION	BY	CHK	DATE
C	FOUL & SURFACE WATER CONNECTIONS REVISED	FJ	SO	02.06.22
B	FOR PLANNING	JS	SO	05.05.2022
A	FOR INFORMATION	JS	SO	14.04.2022

**KELLAND HOMES LTD.**

PROJECT  
CLONBURRIS SDZ

DRAWING TITLE  
**PRELIMINARY FOUL SEWER AND SURFACE WATER LAYOUT**

**PINNACLE CONSULTING ENGINEERS**

GROSVENOR COURT,  
67A PATRICK STREET,  
DUN LAOGHAIRE,  
COUNTY DUBLIN  
IRELAND

TELEPHONE: +353 1231 1041

WELWYN GARDEN CITY | NORWICH | LONDON | THE HAGUE

DRAWING STATUS

<b>FOR PLANNING</b>			
SCALE @ AI	DATE	DRAWN BY	CHECKED
1:500	05.05.22	JS	SO
DRG NO.	REVISION		
5300	C		

COPYRIGHT PINNACLE

- DRAINAGE NOTES:**
- ALL FOUL SEWERS, MANHOLES AND CONNECTIONS TO BE CONSTRUCTED IN ACCORDANCE WITH IRISH WATER CODE OF PRACTICE FOR WASTEWATER INFRASTRUCTURE AND IRISH WATER WASTEWATER INFRASTRUCTURE STANDARD DETAILS.
  - ALL FOUL SEWER HOUSE CONNECTIONS TO BE MIN 100mm Ø UPVC TO IS EN 1401 2009/2012, STIFFNESS CLASS BKN/M2 IN ACCORDANCE WITH IRISH WATER SPECIFICATIONS.
  - ALL PUBLIC FOUL SEWERS TO BE MINIMUM 225mm DIAMETER THERMOPLASTIC STRUCTURED WALL PIPES TO IS EN 13746 (2007/2009), TYPE SN8 AND WIS 4-35-01 (2008) AND COMPLY WITH THE REQUIREMENTS OF THE IRISH WATER CODE OF PRACTICE.
  - ALL PUBLIC SURFACE WATER SEWERS TO BE MINIMUM 225 DIA. CLASS H CONCRETE TO EN 910 & IS 6 2004 IN ACCORDANCE WITH THE GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS.
  - ALL SURFACE WATER CONNECTIONS TO BE MINIMUM 100mm Ø UPVC TO IS EN 1401 2009/2012 IN ACCORDANCE WITH THE GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS.
  - LOCATION AND INVERT LEVELS OF EXISTING MANHOLES OR OUTFALL POINTS, WHERE APPLICABLE TO BE VERIFIED BY CONTRACTOR PRIOR TO COMMENCEMENT OF DRAINAGE WORKS.
  - ALL FOUL CONNECTIONS TO COMPLY WITH THE REQUIREMENTS OF THE IRISH WATER.
  - ALL FOUL SEWERS TO BE AIR TESTED IN ACCORDANCE WITH IRISH WATER SPECIFICATIONS.
  - ALL COVER LEVELS TO MATCH FINISHED ROAD/VERGE/FOOTPATH/CYCLETRACK LEVELS UNLESS OTHERWISE STATED.
  - CONTRACTOR TO INCLUDE FOR CCTV SURVEY OF ALL SEWERS UPON COMPLETION OF SAME.

**LEGEND**

- PROPOSED FOUL SEWER
- PROPOSED FOUL SEWER WITH 150MM CONCRETE ENCASMENT
- PROPOSED FOUL INSPECTION CHAMBER AND SERVICE CONNECTION AS PER IRISH WATER STANDARD DETAIL STD-WW-03
- PROPOSED SURFACE WATER SEWER
- PROPOSED STORM ARMSTRONG JOINT (HOUSE CONNECTION DIRECT TO MAINS DRAINAGE)
- PROPOSED BACKDROP MANHOLE
- PROPOSED ROAD GULLY
- SURFACE WATER HOUSE CONNECTION
- PROPOSED ATTENUATION FACILITY
- EXISTING PUBLIC SURFACE
- EXISTING PUBLIC FOUL SEWER
- SITE BOUNDARY