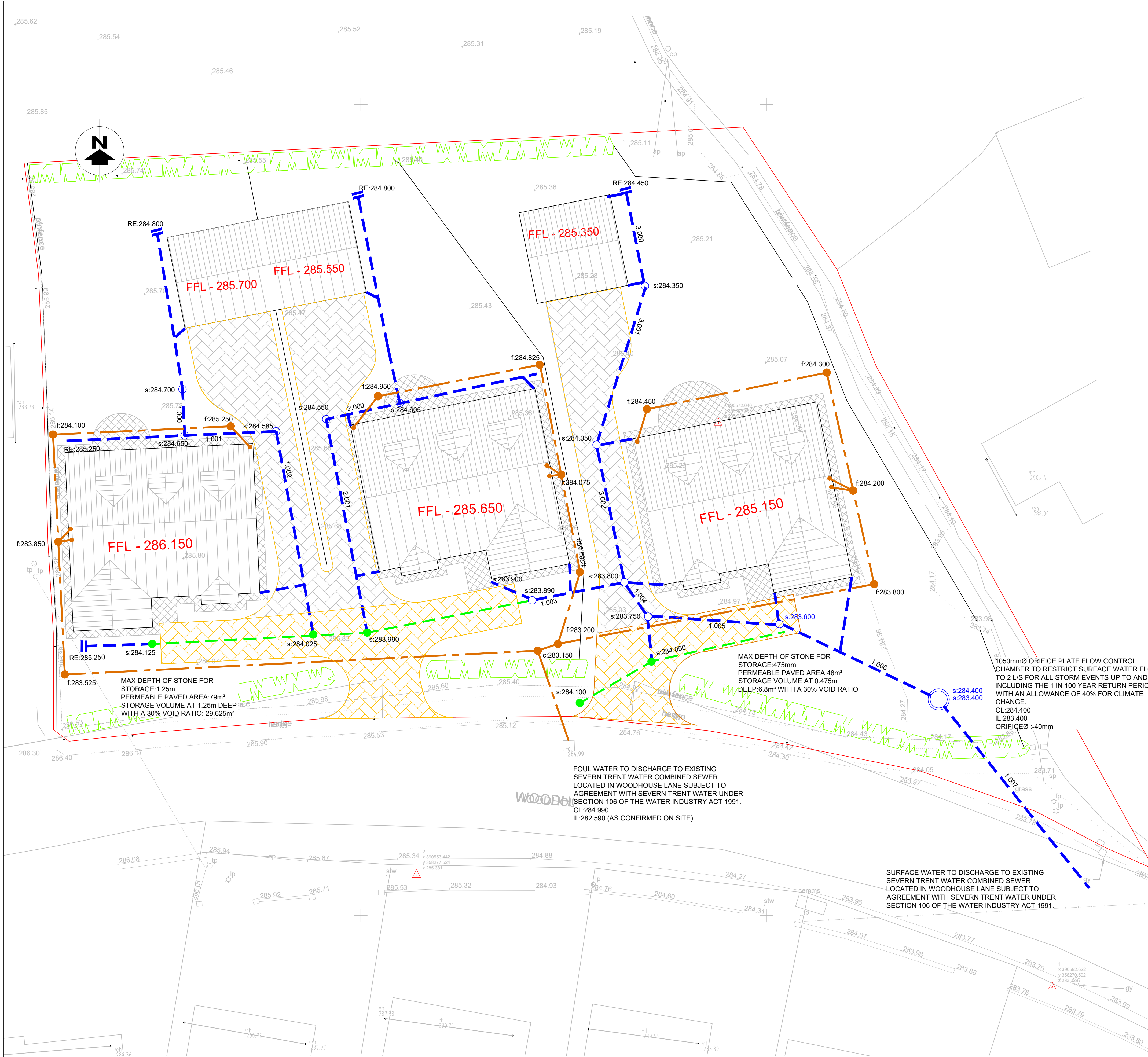




- SURFACE WATER DRAINAGE
- PERFORATED PIPE TO COLLECT AND CONVEY SURFACE WATER FLOWS FROM THE PERMEABLE BLOCK PAVING
- FOUL DRAINAGE
- COMBINED DRAINAGE
- SURFACE WATER INSPECTION CHAMBER
- PERFORATED DRAINAGE INSPECTION CHAMBER
- FOUL INSPECTION CHAMBER
- FOUL POP UP
- RAIN WATER PIPE
- PERMEABLE BLOCK PAVING TO TEMPORARILY STORE SURFACE WATER FOR STORM EVENTS UP TO AND INCLUDING THE 1 IN 100 YEAR RETURN PERIOD WITH AN ALLOWANCE OF 40% FOR CLIMATE CHANGE. CONSTRUCTION TO CONSIST OF:-

60mm DEEP BLOCKS
50mm OF GRADED CRUSHED ROCK
PERMEABLE GEOTEXTILE
150mm OF TYPE 1 MATERIAL
1250mm OF TYPE 3 FREE DRAINING MATERIAL (MAX DEPTH)
1000 GUAGE IMPERMEABLE VISQUEEN MEMBRANE
- STANDARD BLOCK PAVING

60mm DEEP BLOCKS
50mm GRADED CRUSHED ROCK
300mm TYPE 1 MATERIAL

TYPE 1 MATERIAL TO BE WRAPPED WITH IMPERMEABLE MEMBRANE TO PREVENT ANY WATER ENTERING THE LAYER OF STONE.

- NOTES:**
1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED.
 2. ALL DRAINAGE WORKS ARE TO COMPLY WITH THE REQUIREMENTS OF BS 752 BUILDING DRAINAGE AND BUILDING REGULATIONS 2010 APPROVED DOCUMENT H 2015 EDITION.
 3. ALL MATERIALS, UNLESS SPECIFIED OTHERWISE, SHALL COMPLY WITH THE RELEVANT BRITISH STANDARD. SOURCES OF MATERIALS ARE TO BE AGREED WITH THE EMPLOYER'S REPRESENTATIVE/ENGINEER IN ADVANCE OF THE WORKS.
 4. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER ENGINEERING DRAWINGS AND DETAILS AND CONTRACT DOCUMENTATION
 5. ANY DISCREPANCIES IN THE DETAILS SHOWN TO BE REPORTED TO THE EMPLOYER'S REPRESENTATIVE/ENGINEER PRIOR TO CONSTRUCTION.
 6. LOCATION AND LEVELS OF EXISTING DRAINAGE RUNS ARE BASED UPON SEWER RECORD PLANS AND MUST BE CHECKED ON SITE PRIOR TO THE COMMENCEMENT OF ANY DRAINAGE WORKS.
 7. ALL EXISTING SERVICES TO BE LOCATED PRIOR TO THE COMMENCEMENT OF ANY DRAINAGE WORKS WHERE NECESSARY PROTECTION OR DIVERSIONS TO BE UNDERTAKEN TO AVOID CONFLICT WITH THE PROPOSED WORKS.
 8. ALL DRAINAGE AND FITTINGS TO BE FLEXIBLY JOINTED CLAYWARE TO BS EN295 OR CONCRETE TO BS911 PART 100 OR FLEXIBLY JOINTED UPVC PIPES AND FITTINGS TO WIS No 4-13-05. 1500mm DIA STORAGE PIPES TO BE POLYPIPE RIDGISTORM WRG APPROVED AND BBA APPROVED.
 9. TYPICAL PIPE BEDDING TO DRAINAGE WHERE DEPTH TO SOFFIT IS GREATER THAN 900mm IN LANDSCAPED AREAS AND GREATER THAN 1200mm IN TRAFFICKED AREAS IS TO BE CLASS S (IE 10-14mm GRADED IMPORTED GRANULAR BED AND SURROUND FOR PIPES UP TO 5250 AND 20 - 40mm GRADED IMPORTED GRANULAR BED AND SURROUND FOR PIPES GREATER THAN 5250)
 10. WHERE DEPTH TO SOFFIT OF DRAINAGE PIPEWORK IS LESS THAN 900mm IN LANDSCAPED AREAS AND LESS THAN 1200mm IN TRAFFICKED AREAS THEN PIPEWORK IS TO BE PROTECTED WITH 150 mm MINIMUM THICK CONCRETE BED & SURROUND.
 11. BACKFILL TO DRAINAGE TRENCHES UNDER CARRIAGEWAYS TO BE TYPE 1 SUB-BASE MATERIAL ELSEWHERE BACKFILL TO BE FREE DRAINING READILY COMPATIBLE MATERIAL, FREE FROM RUBBISH AND ORGANIC MATTER, FROZEN SOIL CLAY LUMPS AND LARGE STONES. TO BE COMPACTED IN LAYERS NOT EXCEEDING 150mm THICK.
 12. A FLEXIBLE JOINT SHALL BE PROVIDED AS CLOSE AS IS FEASIBLE TO OUTSIDE FACE OF ANY STRUCTURE INTO WHICH A PIPE IS BUILT, COMPATIBLE WITH THE SATISFACTORY COMPLETION AND SUBSEQUENT MOVEMENT OF THE JOINT. THE LENGTH OF THE NEXT PIPE (ROCKER PIPE) AWAY FROM THE STRUCTURE SHALL BE AS SHOWN IN THE TABLE BELOW.
- | NOMINAL DIAMETER (mm) | EFFECTIVE LENGTH (m) |
|-----------------------|----------------------|
| 150-600 | 0.8 |
| 675-750 | 1.0 |
| 825 AND OVER | |
13. ARCHITECT TO CONFIRM RWP AND FOUL POP UP POSITIONS

C	FLOW CONTROL RE-LOCATED	GB	16.07.21
B	SURFACE WATER OUTFALL AMENDED	GB	09.07.21
A	SURFACE WATER OUTFALL AMENDED. DRAWING SCALE AMENDED TO 1:125 TO ACCOMMODATE REVISED OUTFALL	HB	21.01.21

Rev	Description	Chk'd	App'd	Date
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Issue **PRELIMINARY**

Client/Architect
HUMPHRIES BUILDERS LTD.

Contract
**LAND AT WOODHOUSE LANE
BIDDULPH**

Title
DRAINAGE PLAN

KEYTECH
DESIGN LTD
RIVERSIDE OFFICES, MOUNTBATTEN WAY, COMLETON, CW12 1DY
Phone 077101 99945, e-mail: gary@keytechdesign.co.uk

Date	DEC 2020	Scale	1/120 on A1
Original size	A1		
Drawn	GS		
Checked	Approved		

Drawing No.	Revision.
K879-102	C