



TECHNICAL SUPPORT

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This is a complimentary service to JDP account customers. The technical support team services can offer significant savings on any consultancy fees that may have been charged.

Technical Support Supervisor - Tom House

Contact Technical Support

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Technical Support



WHAT WE DO

JDP's technical support team are able to offer advice and assistance for numerous schemes ranging from a drainage take-off, to a complete system design using hydraulic modelling software.

Working closely with clients on their projects, the technical support team ensure that all Building Regulations, sewer adoption requirements and any other specifications are met.

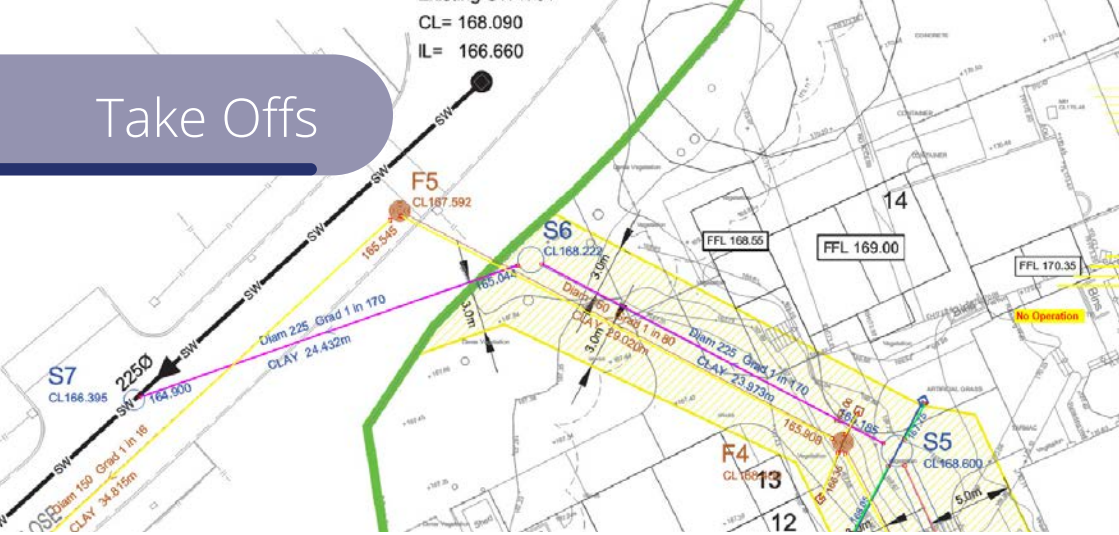
Whether the drainage project you are working on is for above or below ground, JDP's technical knowledge, product availability and in-house design capabilities, means we are a one stop solutions provider covering virtually any kind of drainage project.

SERVICES

- Drainage take-offs from existing drawings
- Hard landscaping take-offs
- Value engineered solutions
- SUDS MicroDrainage calculations
- SUDS designs
- Installation drawings
- General enquiries
- Specification assistance
- Product info on JDP product range
- Site visits



Take Offs



OVERVIEW

Working from existing drawings produced by outside engineers, architects and the JDP in-house design team; the technical support team perform take-offs and produce accurate bill of quantities broken down into relevant sections, e.g. foul and surface water. The majority of take-offs carried out include a manhole schedule which details what has been advised for each individual chamber. This can be advantageous when installing a system in phases and certain items are called-off at different stages of the project.

When performing a take-off the technical support team may also include a page of notes detailing any discrepancies or changes that have been made. The page of notes and the manhole schedule are crucial to the take-offs as these can also indicate any value engineering that has been carried out. The value engineering can consist of many things, all are aimed to create a more cost effective, time saving outcome for customers.

01

JDP receive detailed, scaled, drainage design drawings from the customer in either PDF or CAD format.

02

The drawings, detail sheets or specification documents are assessed by the technical support team.

03

Specialist software is used to help establish the product requirements for the site.

04

A detailed BoQ is produced along with a manhole schedule and relevant notes about the project if applicable.

05

A quote for required products is created and returned to the customer by JDP sales team with any additional information from the technical support team.

Value Engineering

OVERVIEW

JDP's technical support team are able to offer a value engineered solution, from a standard take-off to a full drainage design. Working closely to the specifications required for each project and also ensuring all necessary Building Regulations and requirements for sewer adoption will be adhered to, this allows value engineering to be implemented at the earliest opportunity.

The technical support team can advise a range of products that can be used as equal and approved alternatives to those specified on the drawing.

As well as alternative products, JDP also offer value engineering when reviewing an existing drainage layout. Some designs can be streamlined and still comply with all necessary regulations.

Not all projects can be value engineered, but where possible it will be implemented.

These solutions can be the difference in whether a project is under budget or can be completed and signed off within its timescale which is beneficial to all stakeholders involved in the project.

Specified

Concrete manholes

In-situ concrete manholes

Clay/concrete pipework

Stone soakaway system

Other manufacturers cellular systems

Existing drainage layouts

JDP Alternatives

DYKA AXEDO range

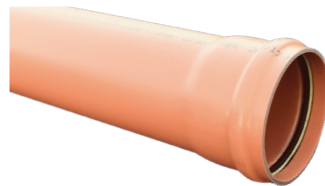
Preformed concrete manholes

DYKA ULTRA3 range

JDP bespoke design

RAINBOX cellular system

JDPs in-house design team solution



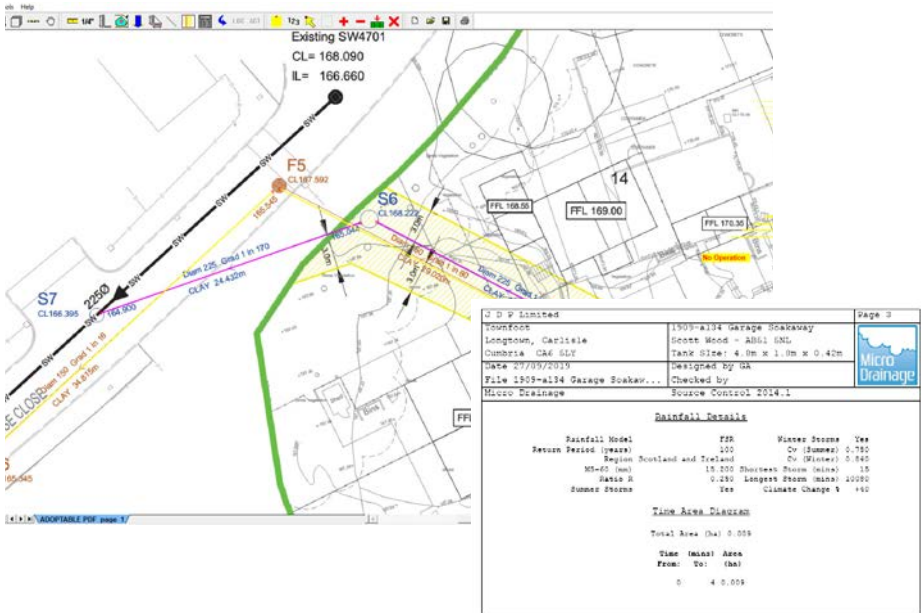
OVERVIEW

The technical support team are able to assist with multiple aspects when it comes to gravity drainage design. Ranging from re-designing existing SUDS systems into more practical solutions; to brand new drainage designs for small residential developments or large commercial projects.

To allow for a smoother process the technical support team can work alongside the Environment Agency, Lead Local Flood Authority and Building Control to ensure designs meet the necessary standards and is exactly what a customer requires.

DESIGN SERVICES

- Hydraulic modelling design
- Attenuation & soakaway sizing
- CAD installation drawings
- Storm/foul water CAD layouts
- Rainbox structural calculations
- Alternative manhole schedules
- Greenfield run-off rates



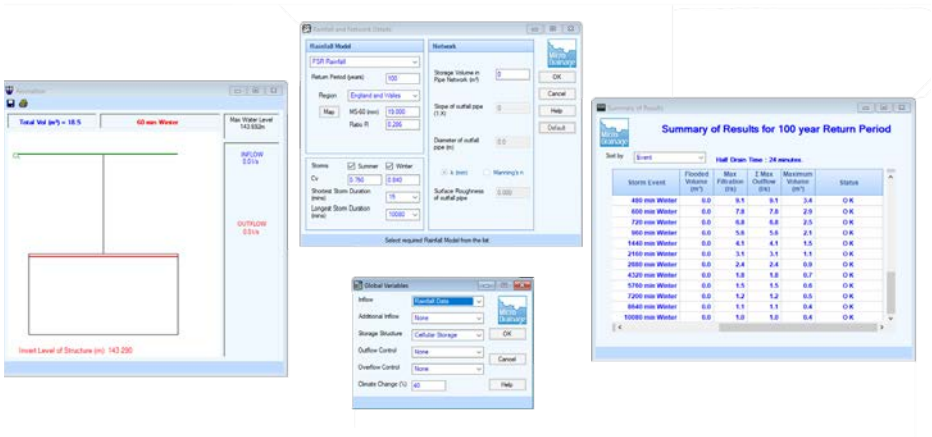
MicroDrainage

WHAT IS MICRO DRAINAGE?

MicroDrainage is the industry standard software for hydraulic drainage design. The technical support team are able to use this software to aid them with many types of projects, varying from a simple attenuation tank to a fully designed drainage system.

SUPPORT

The calculations JDP generate using MicroDrainage are predominantly used to support planning applications and calculate greenfield run-off rates. These calculations are key at the design stage and are a priority for planning approval.



OVERVIEW

Through working closely with customers, the technical support team are able to provide accurate calculations that can be submitted with the planning application. These calculations can be submitted alongside a drainage layout that the JDP in-house design team has created. Once planning has been approved the design can then be taken off, a manhole schedule created and a bill of quantities advised.

This service allows JDP to be involved from the very start until the very end of the job. Involvement at the beginning of the project makes it easier to ensure what has been advised has been done so in a cost effective manner.



HOW IS CAD USED?

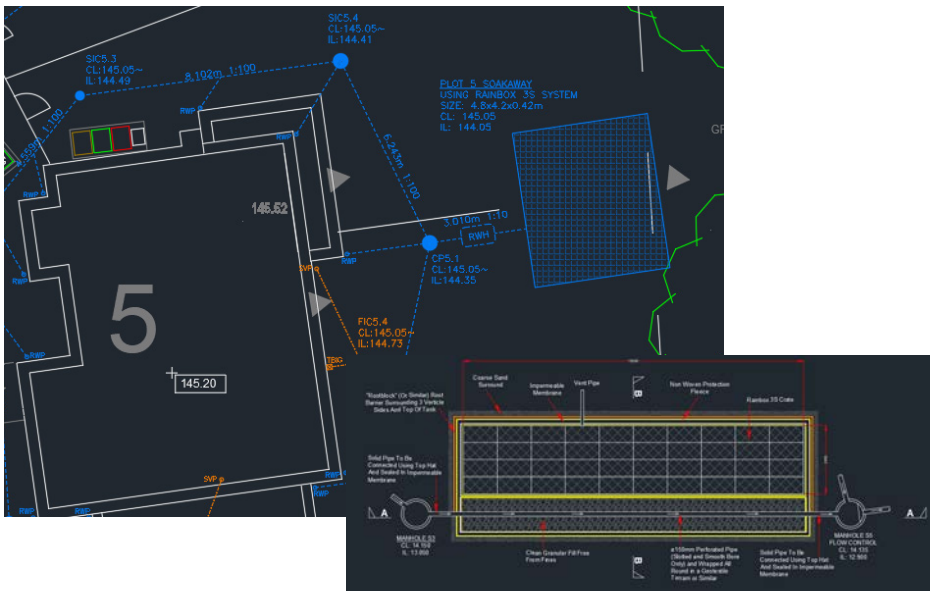
The technical support team use CAD to aid projects in numerous ways. With help from Microdrainage, CAD has become a focal point in helping customers visualise value engineered solutions for their scheme.

When provided with a DWG file of a proposed site, the technical support team can utilise the MicroDrainage and AutoCAD software to design and visualise an effective solution for the drainage on site.

With most attenuation/soakaway designs the technical support team will issue a PDF installation drawing designed on AutoCAD.

WHEN IS CAD USED?

- If designing a full drainage system for both foul and surface water
- If an installation drawing is required
- When a bespoke item is required that JDP's fabrication department can manufacture
- When accurately sizing areas and measuring lengths when performing calculations
- When working alongside an architect/engineer and existing drawings need to be amended



Projects

WHAT JDP NEED FROM YOU



Company Name



Project Stage



Project Name and
Address



PDF/CAD Scale
Drawings



Discharge Points



Percolation Test
Results



Personal
Preferences



Manhole
Schedule



Detail Sheets

SITE VISITS

The JDP technical support team can arrange to meet customers on site at various stages of the project. This can help to establish the most effective solution for a project as all sites are unique.



Case Study

CAPON TREE ROAD, CUMBRIA

JDP's technical support team provided specified value engineering to help a self builder gain planning permission.



DELIVERING A SUCCESSFUL SOLUTION

The technical support team were able to offer a value engineered re-design of the drainage system which reduced the number of products used, in turn reducing expenditure and labour time.

The technical support team incorporated a range of JDP's key products into their surface and foul water design including a total of 228m of ULTRA3 pipework, PPIC inspection chambers, channel drain and silt traps.

JDP's RAINBOX® 3S crates were identified as the ideal product to provide the soakaway system servicing this site. The system offers real benefits for a project of this size due to the ease of installation and the reduced installation time on site compared to traditional methods.

“

The team at JDP have been great. The technical support team were really helpful in identifying any potential issues and finding the right solutions.

- John Coulthard

WHAT JDP DID

The technical support team worked closely with the client John Coulthard, to initially provide a drainage take-off. After reviewing the existing drainage layout and calculations it was agreed that to provide a more cost effective and efficient SUDS solution a new drainage scheme would be proposed to meet planning stipulations.

Using our industry standard MicroDrainage software and new accurate ground percolation test results, the JDP technical support team were able to take the data and re-calculate the dimensions for a more suitable cellular soakaway tank. With limited space available on site, the soakaway tank was designed with extra storage to incorporate the STP (sewage treatment plant) effluent to combine and soak away with the stormwater. The calculations provided by the JDP technical support team were enough to gain the necessary specialist planning approvals the client sought allowing drainage works to begin on site.

TESTIMONIALS

The client was impressed with the knowledge and services provided by the technical support team and the JDP sales and delivery teams commenting, "Gary and the team at JDP have been great. The technical support team were really helpful in identifying any potential issues and finding the right solutions."

Gary Armstrong, JDP's technical support technician who worked on the project commented, "We proposed the drainage re-design to the client based on previous knowledge of what is expected when trying to gain planning approval for a self-build project. John was willing to trust our knowledge on the planning process and on which products would be acceptable, which made for a quick turnaround from design to installation and he reaped the benefits of reduced project time and costs."



Case Study

MONKHILL FARM, CARLISLE

JDP deliver tailored drainage system to complex self-build site.

JDP'S TECHNICAL SUPPORT TEAM

JDP's technical support team worked closely with self-builder William Bimson to help overcome unique and historical site conditions while providing huge savings in planning and construction costs. The site, on Monkhill Farm near Carlisle, features 5 residential properties but came with numerous issues to overcome before construction could start. The main issue being a Roman-era vallum; defensive fortifications of a military camp near Hadrian's Wall, that ran through the site, meaning certain restrictions had to be adhered to when designing the drainage systems.



DELIVERING A SUCCESSFUL SOLUTION

With extensive knowledge of water management, JDP's technical support team were able to provide the client with a holistic approach to site constraints and requirements that reduced the need for local authority approvals, and offer a detailed, value engineered, alternative design to the original plan.

The JDP design included a wide range of drainage products that were perfectly suited for the project including: ULTRA3 pipework; AXEDO® chambers; pumping stations and SUDS components.



JDP technical support team provided a first class service in designing and supplying the storm drain and treatment works at Monkhill.

- William Bimson

A major part of the SUDS design involved the use of the RAINBOX® Core system for an underground attenuation tank. The system was specified as the perfect solution for the client's need for cost effective, heavy-duty crates to accommodate any excess storm water in extreme rainfall events. The RAINBOX® Core system offers a high storage volume and flexible construction meaning it can be adapted to most site conditions. JDP supplied and installed the system ensuring the client, William Bimson, had complete confidence in the long term performance of the tank.

WHAT JDP DID

The primary problem posed by the vullum was that no materials could be installed within its location below a certain depth, due to its archaeological significance, which would be too shallow for a standard gravity drainage design to be effective. The technical support team expertly proposed a bespoke split system design with two separate surface water discharges from site that, when combined, met with the maximum allowable discharge while avoiding the area of the vullum.

The design and proposal involved supplying the client with detailed Microdrainage calculations (the industry standard software for drainage design) and site plans to assist with the rigorous planning and approval process for this site.

TESTIMONIALS

Gary Armstrong, from JDP Technical Support who led the project commented, "We provided detailed calculations for the client to issue to the Planning Authority that enabled him to prove that the specific site stipulations had been met. By fully re-designing the system, we were able to provide adequate storage in a cost effective solution. The new proposal also saved the client valuable time on site in comparison to the initial design."

Mr Bimson stated, "JDP technical support team provided a first class service in designing and supplying the storm drain and treatment works at Monkhill.

They helped solve problems nobody else could, save time and their support has been invaluable."



Case Study

BORROWDALE HYDRO SCHEME

Pipes supplied by JDP delivered by helicopter to Lake District Hydro Scheme.



A helicopter delivery of products sourced by JDP was made to a new Hydro Scheme in the Lake District. The project, based at Combe Gill in Cumbria, planned to generate enough electricity to supply over 200 houses.

WHAT JDP DID

The technical support team worked closely with the client, IT Shaw & Son, to ensure the correct products were supplied to the site, especially in complex areas where pressure changes needed to be accounted for.

JDP supplied the Hydro Scheme with a mix of both Black HDPE SDR26 pressure pipe and Black HDPE SDR17 pressure pipe in 13.5m lengths.

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The technical support team were really helpful in identifying any potential issues and finding the right solutions.

- Ian Shaw, from IT Shaw & Son

TESTIMONIALS

Ian Shaw, from IT Shaw & Son, was impressed with the knowledge and services provided by the technical support team and the sales office commenting, “Mike Dixon and the team at JDP have been great. The technical support team were really helpful in identifying any potential issues and finding the right solutions. Thank you to everyone at JDP for making this delivery safely and on time.”

Joe Wallace, JDP’s Regional Sales Office Supervisor who also worked on the project commented, “This was a great project for JDP and amazing to see pipe being flown across the Cumbrian fells to the new Hydro Scheme. Mike, from JDP’s sales team here in Longtown, worked really hard to make sure this job was a success for the customer and it has been great to see his dedication pay off! JDP really can supply you any product no matter how remote or unusual your project is.”

DELIVERING A SUCCESSFUL SOLUTION

As well as in-depth technical advice throughout the design of the Hydro Scheme, the team were also on site for the extraordinary final delivery of the pipes. Due to the remote location, steep terrain and limited road access around the site, a helicopter was the only option to transport the pipes to their final destination.

The National Trust worked with IT Shaw & Son on this project to arrange the delivery using their helicopter. As expected, weather conditions cancelled the delivery twice but thankfully the delivery was rearranged on a clear day to safely fly the helicopter over the Cumbrian fells.

The HDPE pipes, manufactured by Peak Pipe Systems, were a perfect product for the scheme due to their pressure capabilities and ease of installation. Offering top quality products for this project ensured the development needs minimal maintenance and has a long life guarantee.



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Birtley	0191 410 9522
Skipton	01756 796180
Knottingley	01977 677000
Manchester	0161 724 2300
Bolton	01204 396052
Alfreton	01773 835104
Wednesbury	0121 558 6076
Northampton	01604 754025
Norwich	01603 931318
Colchester	01206 795555
Cambridge	01223 654310
Havant	023 9247 3437
Ashford	01233 618323
Berkhamsted	01442 874692
Isle of Wight	01983 537250
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