Standard Details for Adoptable Pump Station Design

April 2024



Standard Details for Adoptable Pump Station Design

The drawings included in this document are typical details for an adoptable pump station designed in accordance with the Design and Construction Guidance, Local Practices and Technical Standards contained within Code for Adoption.

Please refer to our Local Practice for Pump Stations (Design Criteria for the Adoption of Small Submersible Foul and Surface Water Pumping Stations) which can be found on our website

https://www.yorkshirewater.com/developers/sewerage/

These drawings are to be used as a guide for our design criteria. All drawings submitted for assessment must be site specific and detailed as such accordingly.

This document contains the following Standard Details for Adoptable Pump Station Design:

- YW-DS-SPS-001 Pump Station Plan View General Arrangement
- YW-DS-SPS-002 Pump Station Elevation General Arrangement
- YW-DS-SPS-003 Compound (Single) General Arrangement
- YW-DS-SPS-004 Pump Station Kiosk General Arrangement
- YW-DS-SPS-005 Storage Kiosk General Arrangement
- YW-DS-SPS-006 Pump Station Hazardous Zoning Detail
- YW-DS-SPS-007 Pump Station Site View (Dual Pump)
- YW-DS-SPS-008 Pump Station Boundary Treatment

For further information please contact us:

Telephone 0345 120 8482

Email <u>technical.sewerage@yorkshirewater.co.uk</u>

Web https://www.yorkshirewater.com/developers/sewerage/

Electric hoist equipment must be provided when the pumping traverse distance is in excess of 6m and a 110 volt plug must be installed within the kiosk for the

All Adoptable Sewer works & materials to be in Accordance with the Code for Adoption Edition, the relevant British, European & Yorkshire Water standards, requirements & Local Practice to the Mechanical & Electrical Specification and Kite Marked.

IF BOXOUT HOLES TO BE CORE DRILLED. Civil's To Ensure All Core Drillings Are Parallel To Centre Line / Perpendicular To Valve Chamber

All Cut Pipe Joints As Close To Structures As Possible Consistent With Making The Joint. The Rocker Pipes To Be 1m Or Equal To One Nominal Pipe Diameter Whichever Is The Larger

Operating Levels Storage TWL Invert Of Inlet Invert Of H.L.A. Invert Of P2 Start Invert Of P1 Start Invert Of B.W.L. Invert Of W/W Floor Dead Area Operating Depth Operating Volume Pump Flow *** Litres/second

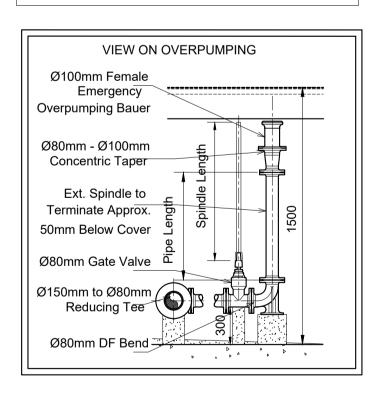
From the above: (***x 2)/(***/2) = *** secs*** seconds divided into 3600 = *** starts / hour

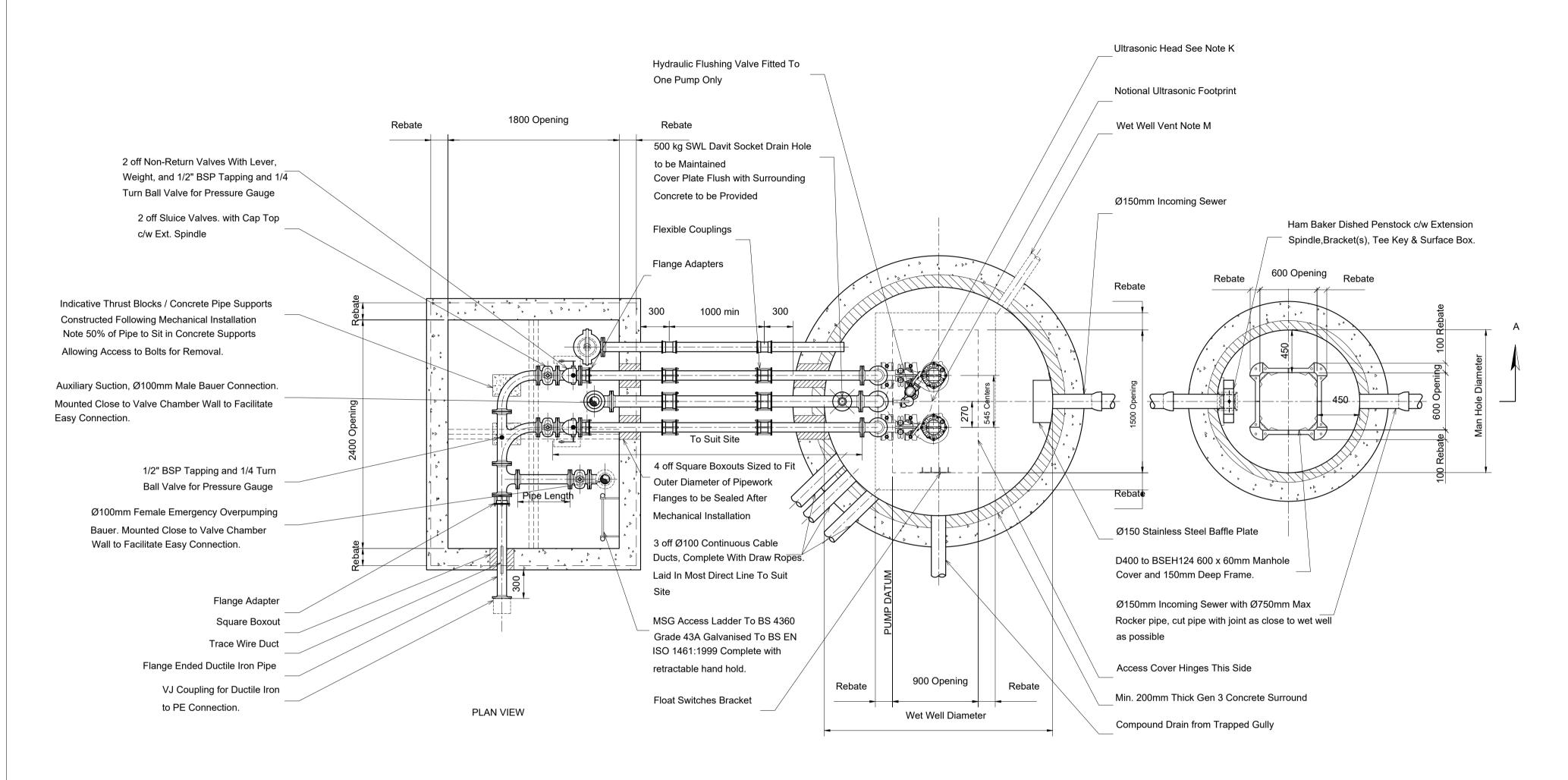
The developer will supply, install and commission the telemetry at their expense. Yorkshire Water telemetry system is the Metashere MMIM Outstation

Galvanised steel twin circular cross section guard rails are required. Maximum 3m lengths Where the depth of the wet well is greater than 3m, ie. 5m then 2 x 25m lengths supported joined by an intermediate bracket at the midpoint. The top of the guide rail bracket shall be securley fixed no more than

below the level of the access cover, and shall be electrically earthed with equipotential bonding.

The top guide rail support bracket shall ahve a suitable hopok for the attachment of the submersible pumps stainless steel lifting chain when it is not in use.





- 1. Cover to re-inforcement to be 40mm to both 2. Spacers to be 1200mm centre to centre.
- 3. Concrete to be 30 N/mm at 28 days.
- 4. Ground bearing pressure taken as 50 KN/M.
- 5. No day work joints permitted in slabs.
- 6. All soft spots to be removed and replaced by suitable material
- Provide 50mm blinding concrete.
- 8. All workmanship and materials must conform to current codes of practice and building regulations
- 9. Minimum bar lap length 800mm.
- 10. Wet well and valve chamber covers to be as supplied by pump supplier.
- 11. To be read in conjunction with the civils

- 12. Any over break between the last access chamber and the wet well and between the wet well and the valve chamber to be filled with lean mix concrete.
- 13. Wet well to be clean and dry before installation of pumps commences.
- 14. Dewatering to be provided if necessary as works proceed
- 15. Rising main to be (specification and length to be confirmed) long. marked with non degradable marker tape above rising main containing a trace wire terminating with 1m of wire coiled inside the valve chamber. Colour
- of rising main to be black/grey 16. Cut out and cut in levels to be established
- 17. The bracket for holding the davit equipment should be kept in the kiosk.

on site by pump supplier

18. All regular level switches used within the · hazardous area must be "ex rated"

- 19. Thrust blocks to be provided at changes in
- 20. Statutory services to provide adequate services to pump station and kiosk and to allow for all necessary requirements
- 21. Kiosk to be provided to the latest yw codes for adoption m & e addendum.
- 22. Ducts within wet well should not be sealed with foam, they should be sealed within the kiosk.
- 23. External levels around the boundary compound to be agreed in a pre-start meeting with an inspector, so that they flow towards the gully.

Il Adoptable Sewer works & materials to be in accordance with Codes For Adoption, the relevant SPINDLE SURFACE BOX DETAIL British, European & Yorkshire Water standard (not to scale) uirements & Local Practice to the Mechanical and Removable Lid with Electrical Specification and Kite Marked. Retention Chain IF BOXOUT HOLES TO BE CORE DRILLED. Civil's To Ensure All Core Drillings Are Parallel To Centre Line / Perpendicular To Valve Chamber Box Fixed as Required All Cut Pipe Joints As Close To Structures As Possible Consistent With Making The Joint. The Rocker Pipes To Be 1m Or Equal To One Nominal Pipe Diameter Whichever Is The Larger View on X∼X

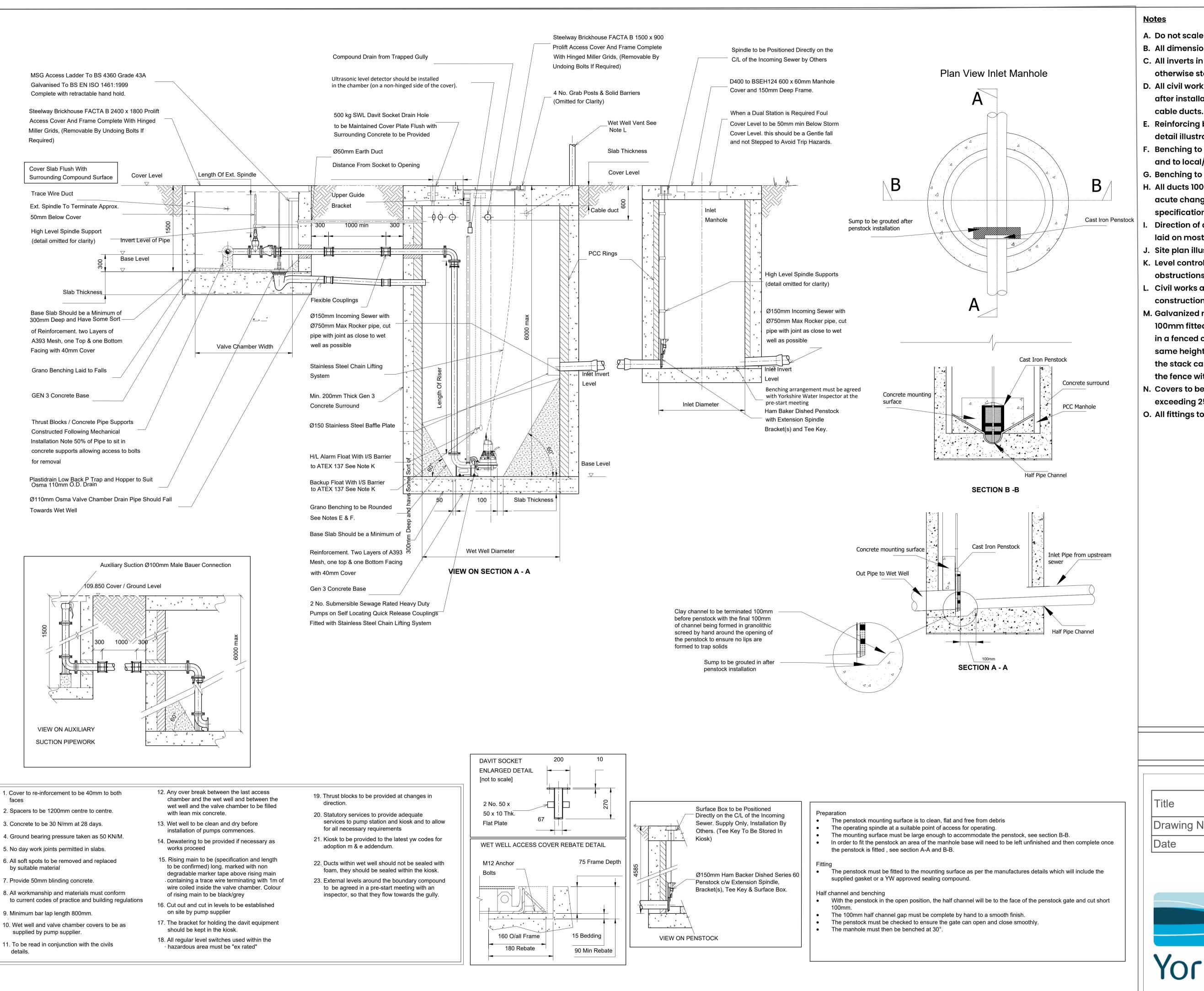
PUMP INFORMATION	
PUMP TYPE	: ***
IMPELLER	: ***
MOTOR RATING	: ***k.W. Ex.P. ***A FLC
DUTY FLOW	: ***I/s
HEAD GENERATED	: ***m
PIPE / VALVE SIZE	: Ø***mm
	ULTRASONIC C/W HIGH LEVEL ALARM AND BACK UP FLOAT SWITCHES
FINAL CONNECTION	: DUCTILE IRON
TERMINATION	: FLANGE ENDED
PIPE O.D.	: Ø***mm
FLANGE DATA	: PN16
RM COUPLER	: Ø***OD Ductile Ø*** PE Converter

<u>Notes</u>

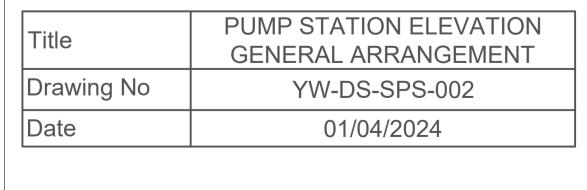
- A. Do not scale
- B. All dimensions in millimetres.
- C. All inverts in metres Above Ordnance Datum(AOD)unless otherwise stated.
- D. All civil work by others including making good around pipes after installation benching, fixing access covers and laying cable ducts.
- E. Reinforcing bars to be 75mm min. Below surface. Structural detail illustrative only, may be worked to for dimensions
- F. Benching to be formed as laid down in `Code for Adoption' and to local/adopting authority specifications.
- G. Benching to be formed after pump installation.
- H. All ducts 100 i.d. Min. Complete with draw ropes and avoiding acute changes of direction. Service ducts to suppliers specifications
- Direction of ducts shown diagrammatically all ducts to be laid on most direct line to suit service being carried.
- J. Site plan illustrative if no specific details previously provided.
- K. Level controls shown notionally, to be positioned away from obstructions, levels readily adjustable after installation.
- .. Civil works are indicative and should not be used for construction.
- M. Galvanized mild steel vent stack with a minimum diameter of 100mm fitted with a mild steel mesh at the top; where located in a fenced compound the vent stack should terminate at the same height as the boundary fencing or in residential areas the stack can be a minimum of 100mm or up to the height of the fence with a swan neck.
- N. Covers to be capable of being lifted with an effort not exceeding 25kg.
- O. All fittings to be stainless steel.

Title	PUMP STATION PLAN VIEW
	GENERAL ARRANGEMENT
Drawing No	YW-DS-SPS-001
Date	01/04/2024

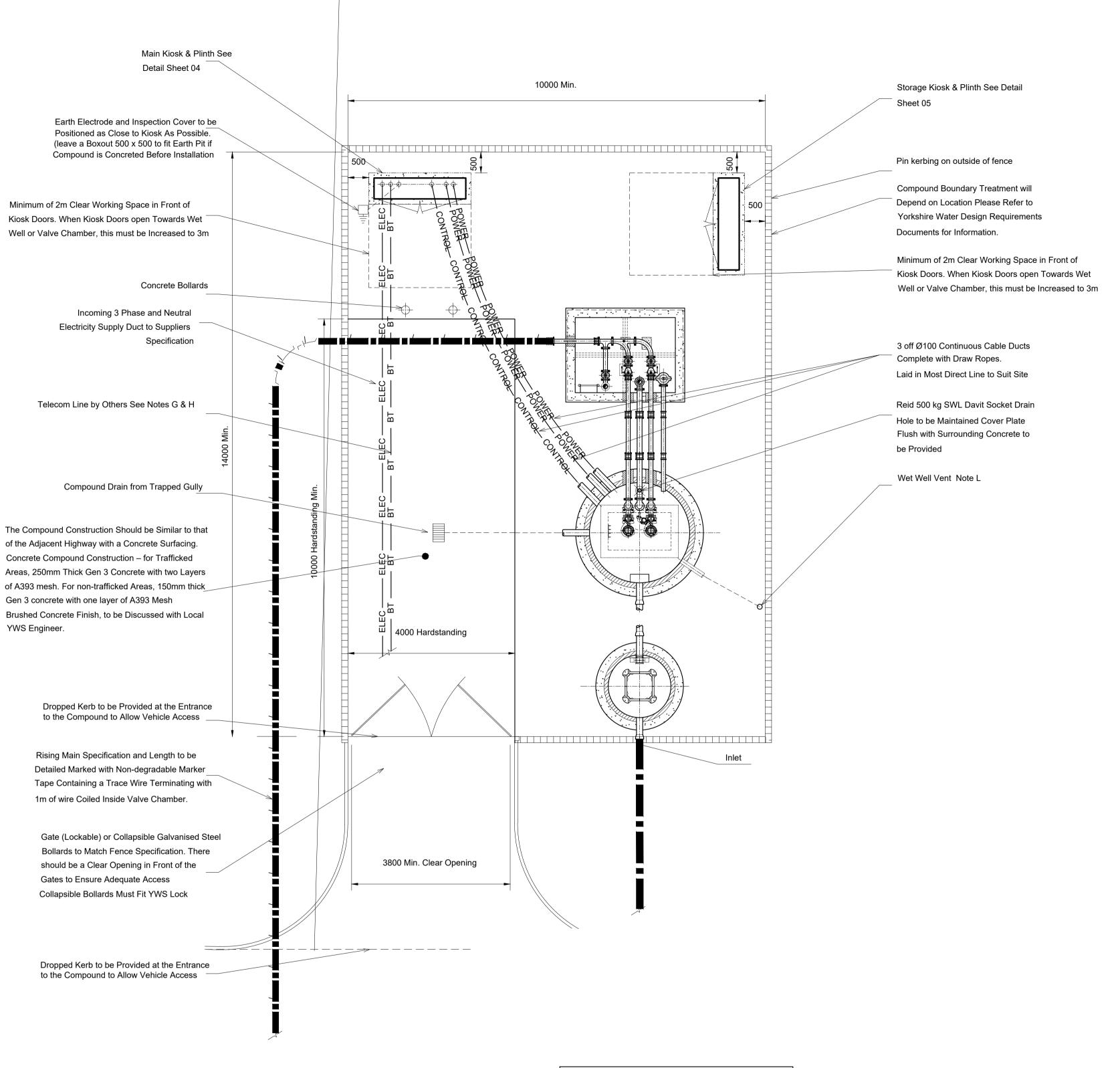




- B. All dimensions in millimetres.
- C. All inverts in metres Above Ordnance Datum(AOD)unless otherwise stated.
- D. All civil work by others including making good around pipes after installation benching, fixing access covers and laying cable ducts.
- E. Reinforcing bars to be 75mm min. Below surface. Structural detail illustrative only, may be worked to for dimensions
- F. Benching to be formed as laid down in `Code for Adoption'
- and to local/adopting authority specifications. G. Benching to be formed after pump installation.
- H. All ducts 100 i.d. Min. Complete with draw ropes and avoiding acute changes of direction. Service ducts to suppliers specifications
- I. Direction of ducts shown diagrammatically all ducts to be laid on most direct line to suit service being carried.
- J. Site plan illustrative if no specific details previously provided.
- K. Level controls shown notionally, to be positioned away from obstructions, levels readily adjustable after installation.
- L. Civil works are indicative and should not be used for construction.
- M. Galvanized mild steel vent stack with a minimum diameter of 100mm fitted with a mild steel mesh at the top; where located in a fenced compound the vent stack should terminate at the same height as the boundary fencing or in residential areas the stack can be a minimum of 100mm or up to the height of the fence with a swan neck.
- N. Covers to be capable of being lifted with an effort not exceeding 25kg.
- O. All fittings to be stainless steel.







- 1. Cover to re-inforcement to be 40mm to both
- 2. Spacers to be 1200mm centre to centre.
- 3. Concrete to be 30 N/mm at 28 days.
- 4. Ground bearing pressure taken as 50 KN/M.
- 5. No day work joints permitted in slabs.
- 6. All soft spots to be removed and replaced by suitable material
- 7. Provide 50mm blinding concrete.
- 8. All workmanship and materials must conform to current codes of practice and building regulations
- 9. Minimum bar lap length 800mm.
- 10. Wet well and valve chamber covers to be as supplied by pump supplier.
- 11. To be read in conjunction with the civils

chamber and the wet well and between the wet well and the valve chamber to be filled with lean mix concrete.

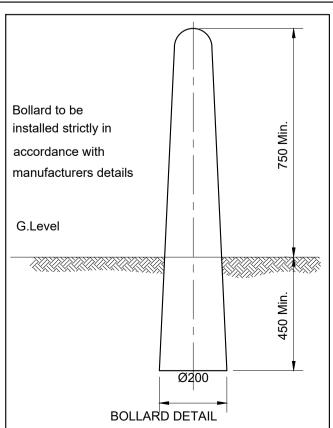
12. Any over break between the last access

- 13. Wet well to be clean and dry before
- installation of pumps commences. 14. Dewatering to be provided if necessary as works proceed
- 15. Rising main to be (specification and length to be confirmed) long. marked with non degradable marker tape above rising main containing a trace wire terminating with 1m of
- wire coiled inside the valve chamber. Colour of rising main to be black/grey 16. Cut out and cut in levels to be established
- on site by pump supplier 17. The bracket for holding the davit equipment
- should be kept in the kiosk.
- 18. All regular level switches used within the · hazardous area must be "ex rated"

19. Thrust blocks to be provided at changes in

direction.

- 20. Statutory services to provide adequate services to pump station and kiosk and to allow for all necessary requirements
- 21. Kiosk to be provided to the latest yw codes for adoption m & e addendum.
- 22. Ducts within wet well should not be sealed with
- foam, they should be sealed within the kiosk. 23. External levels around the boundary compound
- to be agreed in a pre-start meeting with an inspector, so that they flow towards the gully.



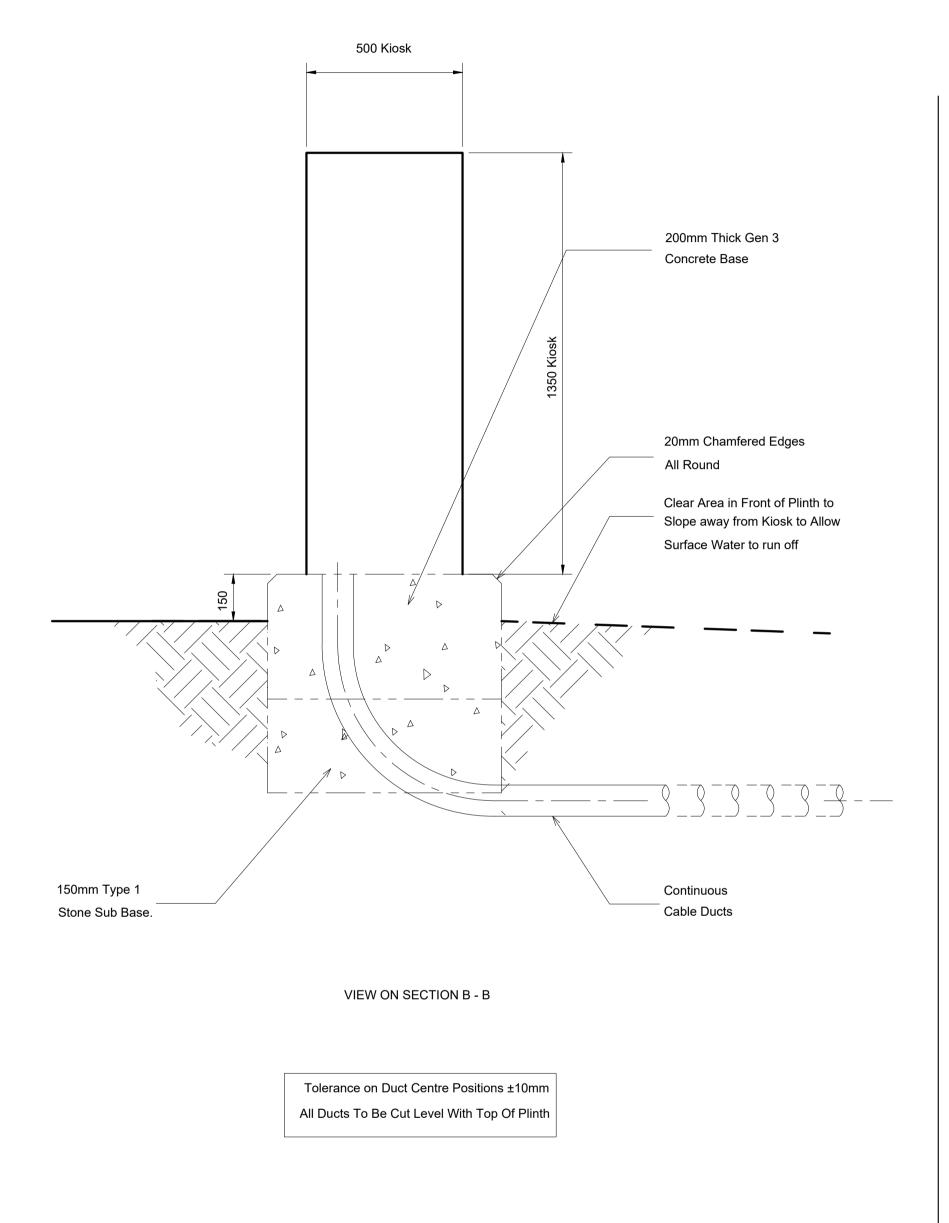
Notes

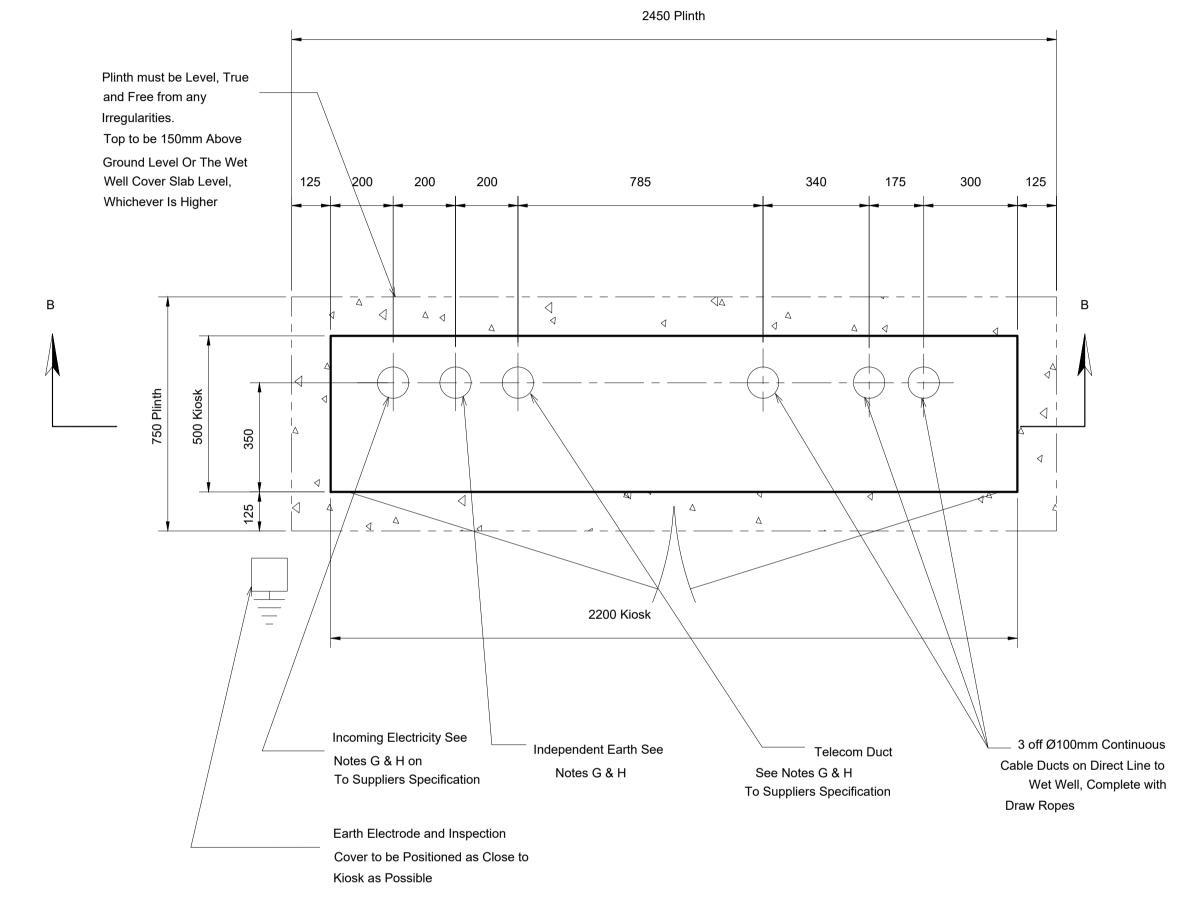
- A. Do not scale
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- C. All inverts in metres Above Ordnance Datum(AOD)unless otherwise stated.
- D. All civil work by others including making good around pipes after installation benching, fixing access covers and laying cable ducts.
- E. Reinforcing bars to be 75mm min. Below surface. Structural detail illustrative only, may be worked to for dimensions
- F. Benching to be formed as laid down in `Code for Adoption' and to local/adopting authority specifications.
- G. Benching to be formed after pump installation.
- H. All ducts 100 i.d. Min. Complete with draw ropes and avoiding acute changes of direction. Service ducts to suppliers specifications
- I. Direction of ducts shown diagrammatically all ducts to be laid on most direct line to suit service being carried.
- J. Site plan illustrative if no specific details previously provided.
- K. Level controls shown notionally, to be positioned away from obstructions, levels readily adjustable after installation.
- L. Civil works are indicative and should not be used for construction.
- M. Galvanized mild steel vent stack with a minimum diameter of 100mm fitted with a mild steel mesh at the top; where located in a fenced compound the vent stack should terminate at the same height as the boundary fencing or in residential areas the stack can be a minimum of 100mm or up to the height of the fence with a swan neck.
- N. Covers to be capable of being lifted with an effort not exceeding 25kg.
- O. All fittings to be stainless steel.

Title	COMPOUND (SINGLE)
	GENERAL ARRANGEMENT
Drawing No	YW-DS-SPS-003
Date	01/04/2024



Kiosk Complies With Yorkshire Water's Code For Adoption The Kiosk standard must be LPCB SR3





- Cover to re-inforcement to be 40mm to both faces
 Spacers to be 1200mm centre to centre.
 Concrete to be 30 N/mm at 28 days.
- 4. Ground bearing pressure taken as 50 KN/M.5. No day work joints permitted in slabs.
- 6. All soft spots to be removed and replaced by suitable material7. Provide 50mm blinding concrete.
- 8. All workmanship and materials must conform to current codes of practice and building regulations
 Minimum har lan length 800mm
- 9. Minimum bar lap length 800mm.10. Wet well and valve chamber covers to be as supplied by pump supplier.
- 11. To be read in conjunction with the civils details.

- 12. Any over break between the last access chamber and the wet well and between the wet well and the valve chamber to be filled with lean mix concrete.
- Wet well to be clean and dry before installation of pumps commences.
- Dewatering to be provided if necessary as works proceed
- 15. Rising main to be (specification and length to be confirmed) long. marked with non degradable marker tape above rising main containing a trace wire terminating with 1m of wire coiled inside the valve chamber. Colour of rising main to be black/grey
- Cut out and cut in levels to be established on site by pump supplier
- The bracket for holding the davit equipment should be kept in the kiosk.
- All regular level switches used within the hazardous area must be "ex rated"

- Thrust blocks to be provided at changes in direction.
- 20. Statutory services to provide adequate services to pump station and kiosk and to allow for all necessary requirements
- 21. Kiosk to be provided to the latest yw codes for adoption m & e addendum.
- 22. Ducts within wet well should not be sealed with foam, they should be sealed within the kiosk.
- 23. External levels around the boundary compound to be agreed in a pre-start meeting with an inspector, so that they flow towards the gully.
- 24. The Kiosk standard must be LPCB SR3

KIOSK DOORS FITTED WITH TRIANGULAR KEYED CAMLOCKS AT THE TOP AND BOTTOM OF EACH DOOR AND A SECURE HARDENED HASP AND STAPLE SIZED TO TAKE A YORKSHIRE WATER SIZED SERVICES PADLOCK.

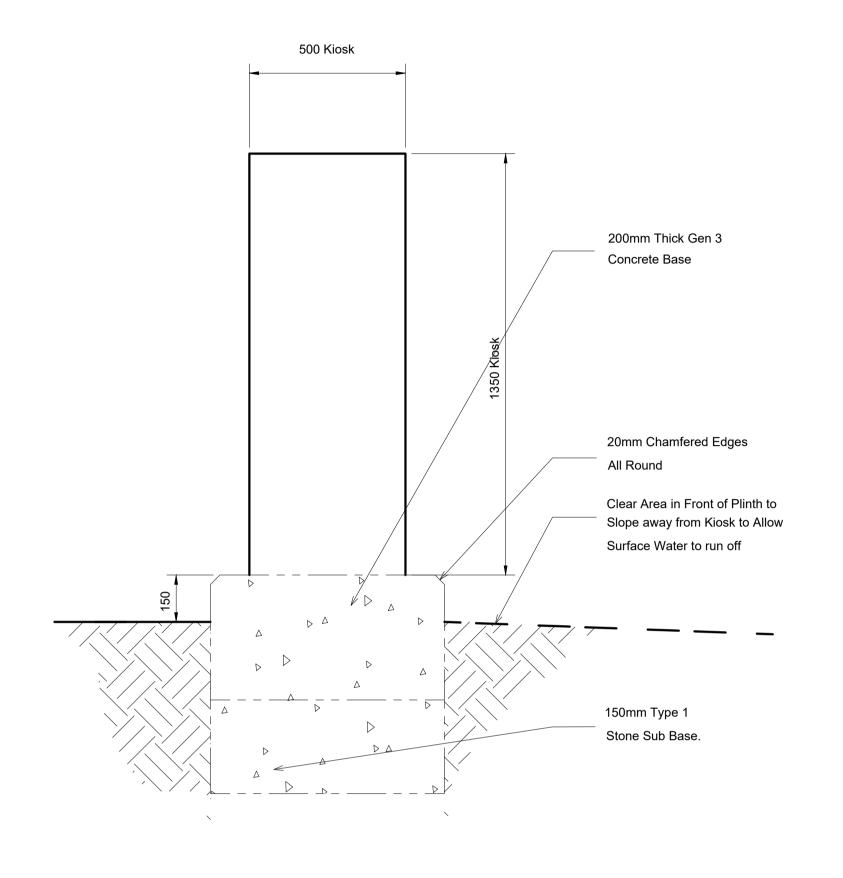
ALL CABLE DUCTS TO BE SEALED IN THE KIOSK AND CAPPED WITH A WITH A GAS TIGHT SEALING PUTTY 10ATEX 137 DIRECTIVE.

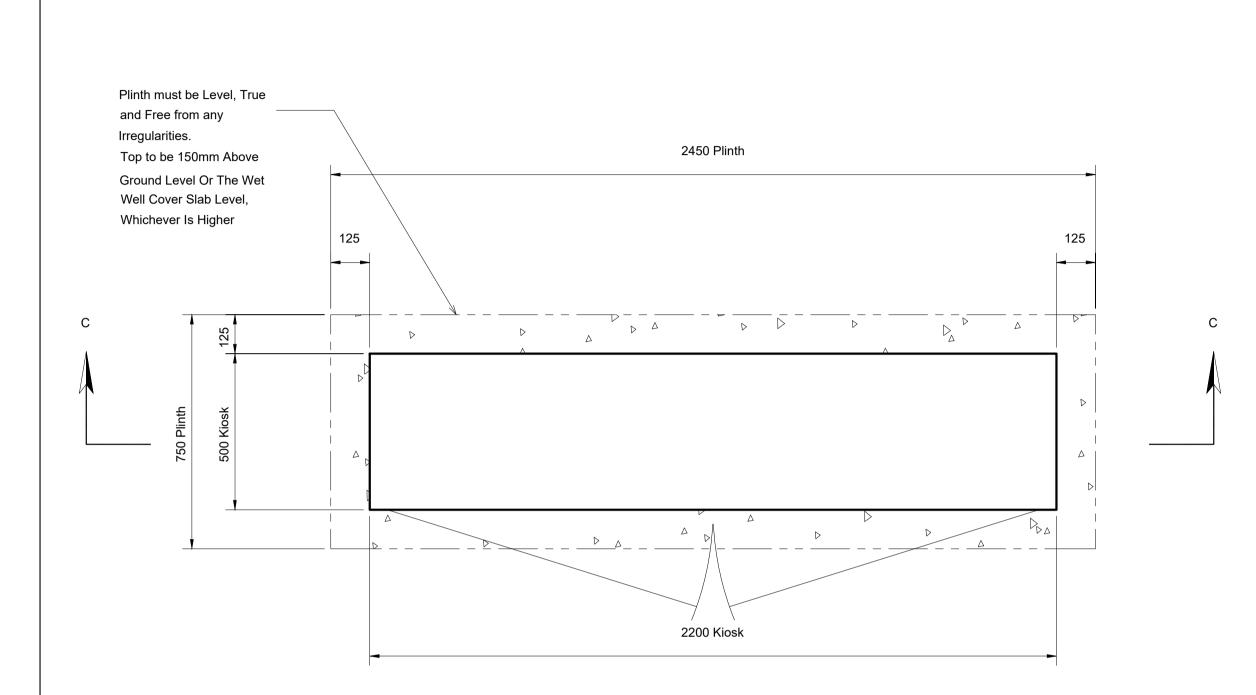
Notes

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- B. All dimensions in millimetres.
- C. All inverts in metres Above Ordnance Datum(AOD)unless otherwise stated.
- D. All civil work by others including making good around pipes after installation benching, fixing access covers and laying cable ducts.
- E. Reinforcing bars to be 75mm min. Below surface. Structural detail illustrative only, may be worked to for dimensions
- F. Benching to be formed as laid down in `Code for Adoption' and to local/adopting authority specifications.
- G. Benching to be formed after pump installation.
- H. All ducts 100 i.d. Min. Complete with draw ropes and avoiding acute changes of direction. Service ducts to suppliers specifications
- I. Direction of ducts shown diagrammatically all ducts to be laid on most direct line to suit service being carried.
- J. Site plan illustrative if no specific details previously provided.
- K. Level controls shown notionally, to be positioned away from obstructions, levels readily adjustable after installation.
- L. Civil works are indicative and should not be used for construction.
- M. Galvanized mild steel vent stack with a minimum diameter of 100mm fitted with a mild steel mesh at the top; where located in a fenced compound the vent stack should terminate at the same height as the boundary fencing or in residential areas the stack can be a minimum of 100mm or up to the height of the fence with a swan neck.
- N. Covers to be capable of being lifted with an effort not exceeding 25kg.
- O. All fittings to be stainless steel.

Title	PUMP STATION KIOSK GENERAL ARRANGEMENT
Drawing No	YW-DS-SPS-004
Date	01/04/2024







VIEW ON SECTION C - C

- Cover to re-inforcement to be 40mm to both faces
- 2. Spacers to be 1200mm centre to centre.
- 3. Concrete to be 30 N/mm at 28 days.
- 4. Ground bearing pressure taken as 50 KN/M.
- 5. No day work joints permitted in slabs.
- 6. All soft spots to be removed and replaced
- by suitable material

 7. Provide 50mm blinding concrete.
- 9. All workmanship and materials must conform
- All workmanship and materials must conform to current codes of practice and building regulations
- 9. Minimum bar lap length 800mm.
- Wet well and valve chamber covers to be as supplied by pump supplier.
- 11. To be read in conjunction with the civils details.

- 12. Any over break between the last access chamber and the wet well and between the wet well and the valve chamber to be filled with lean mix concrete.
- 13. Wet well to be clean and dry before installation of pumps commences.
- Dewatering to be provided if necessary as works proceed
- 15. Rising main to be (specification and length to be confirmed) long. marked with non degradable marker tape above rising main containing a trace wire terminating with 1m of wire coiled inside the valve chamber. Colour of rising main to be black/grey
- Cut out and cut in levels to be established on site by pump supplier
- The bracket for holding the davit equipment should be kept in the kiosk.
- 18. All regular level switches used within the hazardous area must be "ex rated"

- Thrust blocks to be provided at changes in direction.
- 20. Statutory services to provide adequate services to pump station and kiosk and to allow for all necessary requirements
- 21. Kiosk to be provided to the latest yw codes for
- adoption m & e addendum.
- 22. Ducts within wet well should not be sealed with foam, they should be sealed within the kiosk.
- 23. External levels around the boundary compound to be agreed in a pre-start meeting with an
- inspector, so that they flow towards the gully.

 24. The Kiosk standard must be LPCB SR3

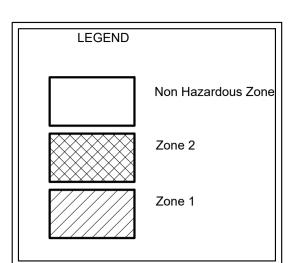
KIOSK DOORS FITTED WITH TRIANGULAR KEYED CAMLOCKS AT THE TOP AND BOTTOM OF EACH DOOR AND A SECURE HARDENED HASP AND STAPLE SIZED TO TAKE A YORKSHIRE WATER SIZED SERVICES PADLOCK.

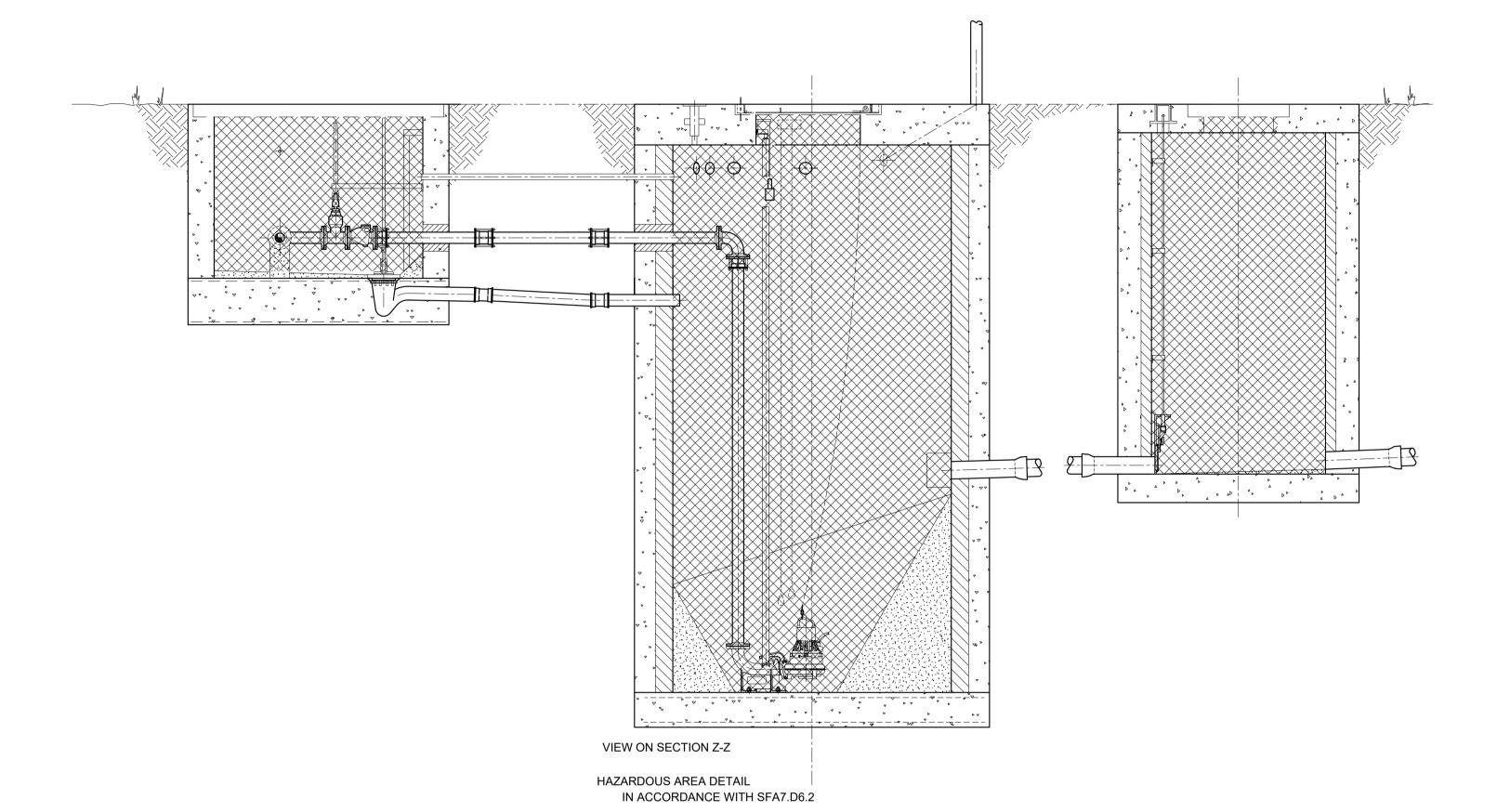
<u>Notes</u>

- A. Do not scale
- B. All dimensions in millimetres.
- C. All inverts in metres Above Ordnance Datum(AOD)unless otherwise stated.
- D. All civil work by others including making good around pipes after installation benching, fixing access covers and laying cable ducts.
- E. Reinforcing bars to be 75mm min. Below surface. Structural detail illustrative only, may be worked to for dimensions
- F. Benching to be formed as laid down in `Code for Adoption' and to local/adopting authority specifications.
- G. Benching to be formed after pump installation.
- H. All ducts 100 i.d. Min. Complete with draw ropes and avoiding acute changes of direction. Service ducts to suppliers specifications
- Direction of ducts shown diagrammatically all ducts to be laid on most direct line to suit service being carried.
- J. Site plan illustrative if no specific details previously provided.
- K. Level controls shown notionally, to be positioned away from obstructions, levels readily adjustable after installation.
- L. Civil works are indicative and should not be used for construction.
- M. Galvanized mild steel vent stack with a minimum diameter of 100mm fitted with a mild steel mesh at the top; where located in a fenced compound the vent stack should terminate at the same height as the boundary fencing or in residential areas the stack can be a minimum of 100mm or up to the height of the fence with a swan neck.
- N. Covers to be capable of being lifted with an effort not exceeding 25kg.
- O. All fittings to be stainless steel.

Title	STORAGE KIOSK GENERAL ARRANGEMENT
Drawing No	YW-DS-SPS-005
Date	01/04/2024







Cable Ducts in accordance with Code for Adoption and BS EN 1401-01 & BS 4660 sealed with rise sealant system Gas + waterproof sealant system

- 1. Cover to re-inforcement to be 40mm to both
- 2. Spacers to be 1200mm centre to centre.
- 3. Concrete to be 30 N/mm at 28 days.
- 4. Ground bearing pressure taken as 50 KN/M.
- 5. No day work joints permitted in slabs.
- 6. All soft spots to be removed and replaced by suitable material
- 7. Provide 50mm blinding concrete.
- 8. All workmanship and materials must conform
- 9. Minimum bar lap length 800mm.

to current codes of practice and building regulations

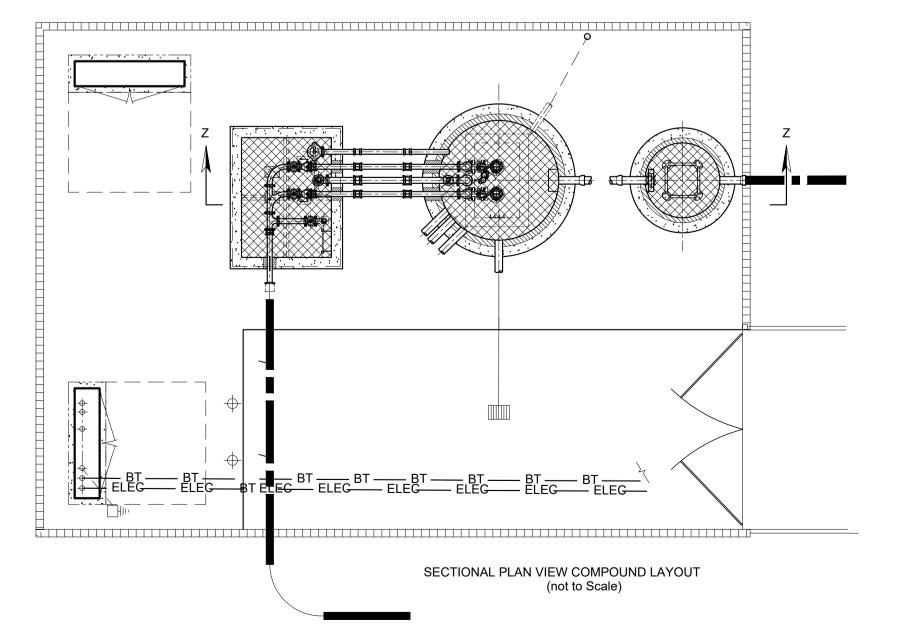
- 10. Wet well and valve chamber covers to be as
- supplied by pump supplier.
- 11. To be read in conjunction with the civils

- 12. Any over break between the last access chamber and the wet well and between the wet well and the valve chamber to be filled with lean mix concrete.
- 13. Wet well to be clean and dry before
- installation of pumps commences.
- 14. Dewatering to be provided if necessary as works proceed
- 15. Rising main to be (specification and length to be confirmed) long. marked with non degradable marker tape above rising main containing a trace wire terminating with 1m of wire coiled inside the valve chamber. Colour
- 16. Cut out and cut in levels to be established

of rising main to be black/grey

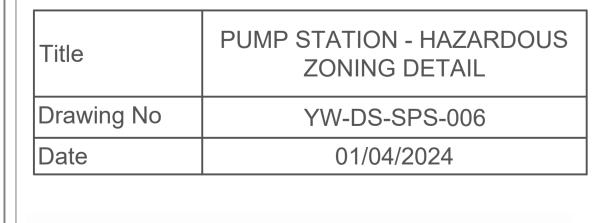
- on site by pump supplier 17. The bracket for holding the davit equipment
- should be kept in the kiosk. 18. All regular level switches used within the · hazardous area must be "ex rated"

- 19. Thrust blocks to be provided at changes in direction.
- 20. Statutory services to provide adequate services to pump station and kiosk and to allow for all necessary requirements
- 21. Kiosk to be provided to the latest yw codes for adoption m & e addendum.
- 22. Ducts within wet well should not be sealed with foam, they should be sealed within the kiosk.
- 23. External levels around the boundary compound
- to be agreed in a pre-start meeting with an inspector, so that they flow towards the gully.

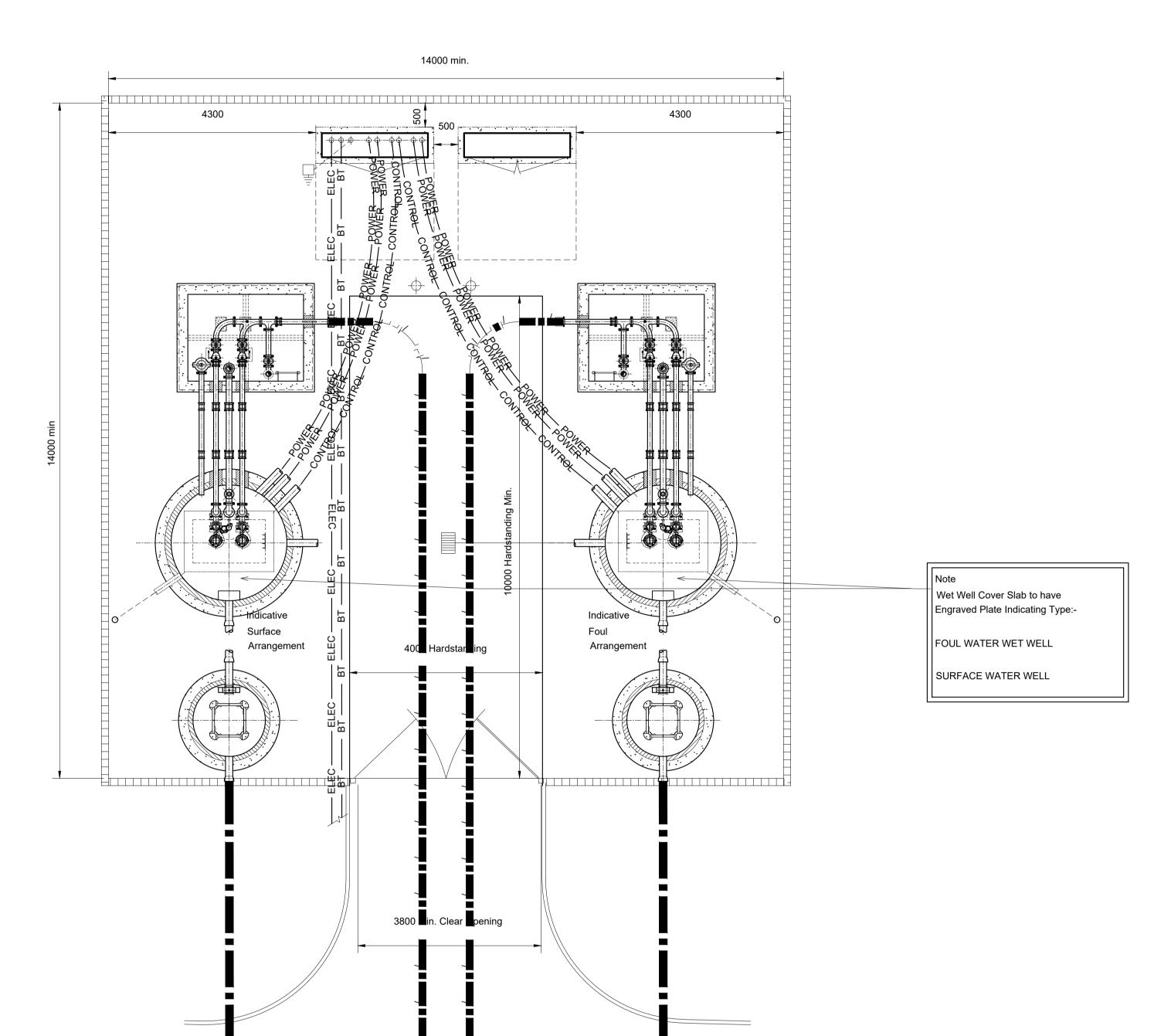


<u>Notes</u>

- A. Do not scale
- B. All dimensions in millimetres.
- C. All inverts in metres Above Ordnance Datum(AOD)unless otherwise stated.
- D. All civil work by others including making good around pipes after installation benching, fixing access covers and laying cable ducts.
- E. Reinforcing bars to be 75mm min. Below surface. Structural detail illustrative only, may be worked to for dimensions
- F. Benching to be formed as laid down in `Code for Adoption' and to local/adopting authority specifications.
- G. Benching to be formed after pump installation.
- H. All ducts 100 i.d. Min. Complete with draw ropes and avoiding acute changes of direction. Service ducts to suppliers specifications
- Direction of ducts shown diagrammatically all ducts to be laid on most direct line to suit service being carried.
- J. Site plan illustrative if no specific details previously provided.
- K. Level controls shown notionally, to be positioned away from obstructions, levels readily adjustable after installation.
- L. Civil works are indicative and should not be used for construction.
- M. Galvanized mild steel vent stack with a minimum diameter of 100mm fitted with a mild steel mesh at the top; where located in a fenced compound the vent stack should terminate at the same height as the boundary fencing or in residential areas the stack can be a minimum of 100mm or up to the height of the fence with a swan neck.
- N. Covers to be capable of being lifted with an effort not exceeding 25kg.
- O. All fittings to be stainless steel.







Cover to re-inforcement to be 40mm to both faces

- 2. Spacers to be 1200mm centre to centre.
- 3. Concrete to be 30 N/mm at 28 days.
- 4. Ground bearing pressure taken as 50 KN/M.
- 5. No day work joints permitted in slabs.
- All soft spots to be removed and replaced by suitable material
- 7. Provide 50mm blinding concrete.
- 8. All workmanship and materials must conform

to current codes of practice and building regulations

- 9. Minimum bar lap length 800mm.
- 10. Wet well and valve chamber covers to be as

supplied by pump supplier.

11. To be read in conjunction with the civils

- 12. Any over break between the last access chamber and the wet well and between the wet well and the valve chamber to be filled with lean mix concrete.
- 13. Wet well to be clean and dry before installation of pumps commences.
- Dewatering to be provided if necessary as works proceed
- 15. Rising main to be (specification and length to be confirmed) long. marked with non degradable marker tape above rising main containing a trace wire terminating with 1m of

wire coiled inside the valve chamber. Colour

16. Cut out and cut in levels to be established on site by pump supplier

of rising main to be black/grey

- 17. The bracket for holding the davit equipment should be kept in the kiosk.
- 18. All regular level switches used within the hazardous area must be "ex rated"

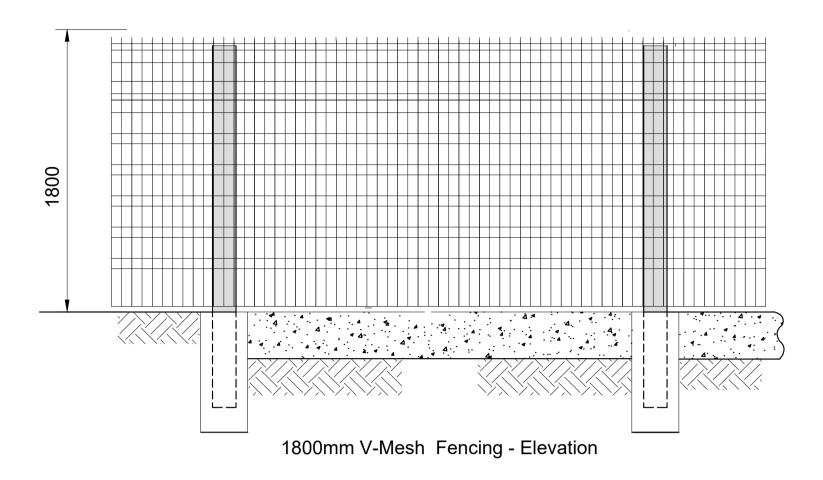
- 19. Thrust blocks to be provided at changes in direction.
- Statutory services to provide adequate services to pump station and kiosk and to allow for all necessary requirements
- 21. Kiosk to be provided to the latest yw codes for adoption m & e addendum.
- 22. Ducts within wet well should not be sealed with foam, they should be sealed within the kiosk.
- 23. External levels around the boundary compound to be agreed in a pre-start meeting with an inspector, so that they flow towards the gully.

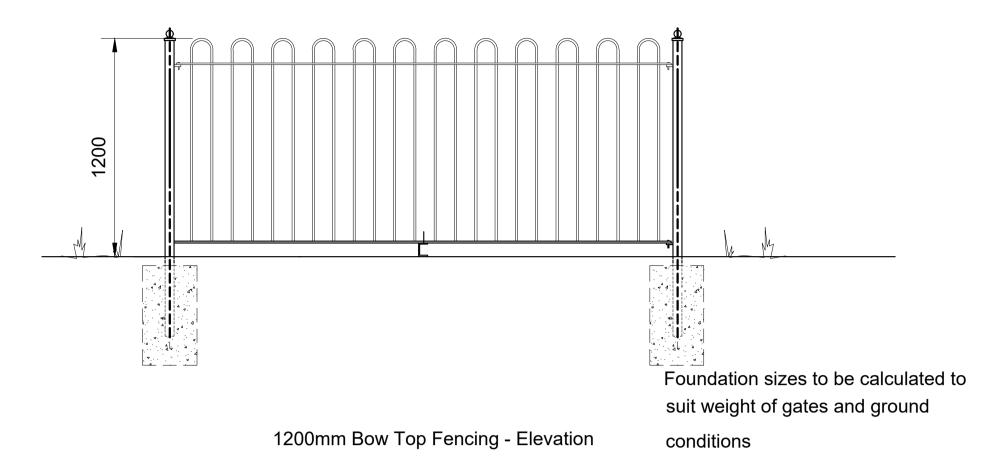
<u>Notes</u>

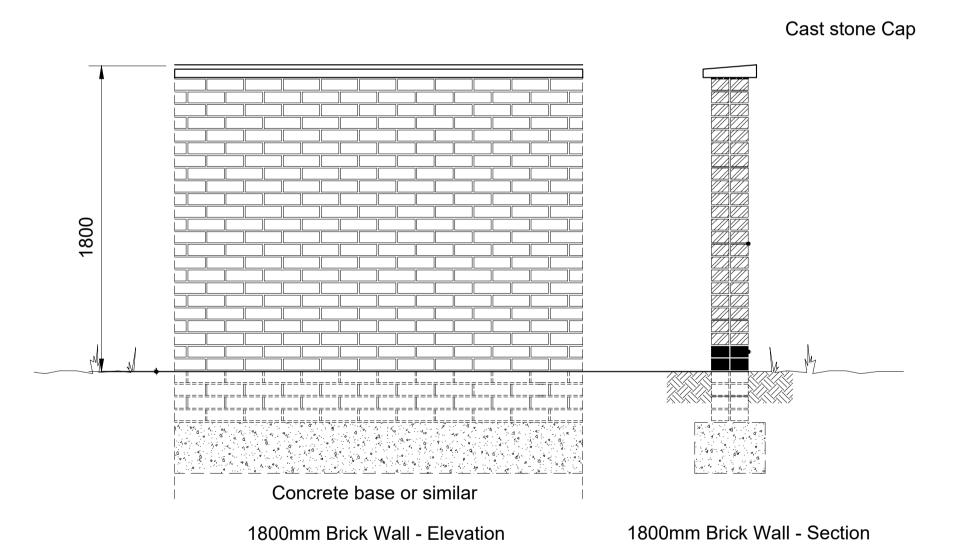
- A. Do not scale
- B. All dimensions in millimetres.
- C. All inverts in metres Above Ordnance Datum(AOD)unless otherwise stated.
- D. All civil work by others including making good around pipes after installation benching, fixing access covers and laying cable ducts.
- E. Reinforcing bars to be 75mm min. Below surface. Structural detail illustrative only, may be worked to for dimensions
- F. Benching to be formed as laid down in `Code for Adoption' and to local/adopting authority specifications.
- G. Benching to be formed after pump installation.
- H. All ducts 100 i.d. Min. Complete with draw ropes and avoiding acute changes of direction. Service ducts to suppliers specifications
- I. Direction of ducts shown diagrammatically all ducts to be laid on most direct line to suit service being carried.
- J. Site plan illustrative if no specific details previously provided.
- K. Level controls shown notionally, to be positioned away from obstructions, levels readily adjustable after installation.
- L. Civil works are indicative and should not be used for construction.
- M. Galvanized mild steel vent stack with a minimum diameter of 100mm fitted with a mild steel mesh at the top; where located in a fenced compound the vent stack should terminate at the same height as the boundary fencing or in residential areas the stack can be a minimum of 100mm or up to the height of the fence with a swan neck.
- N. Covers to be capable of being lifted with an effort not exceeding 25kg.
- O. All fittings to be stainless steel.

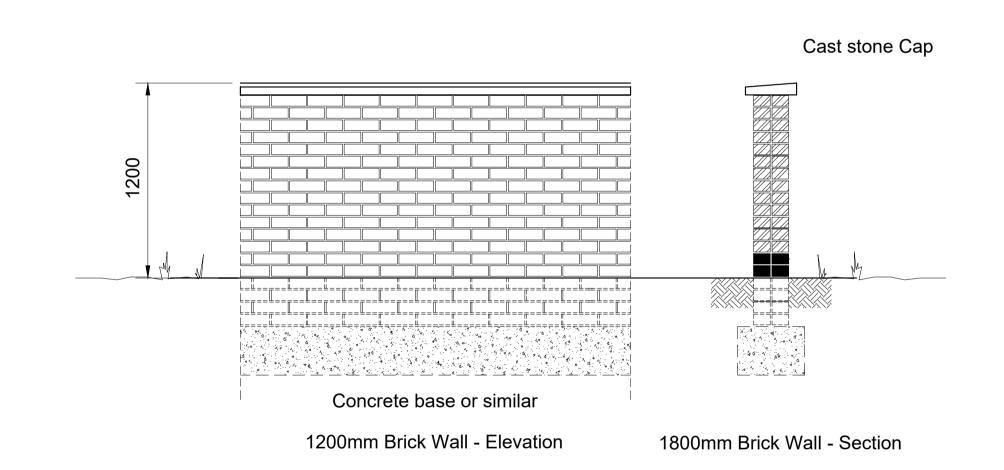
	Title	PUMP STATION - SITE VIEW (DUAL PUMP)
	Drawing No	YW-DS-SPS-007
	Date	01/04/2024

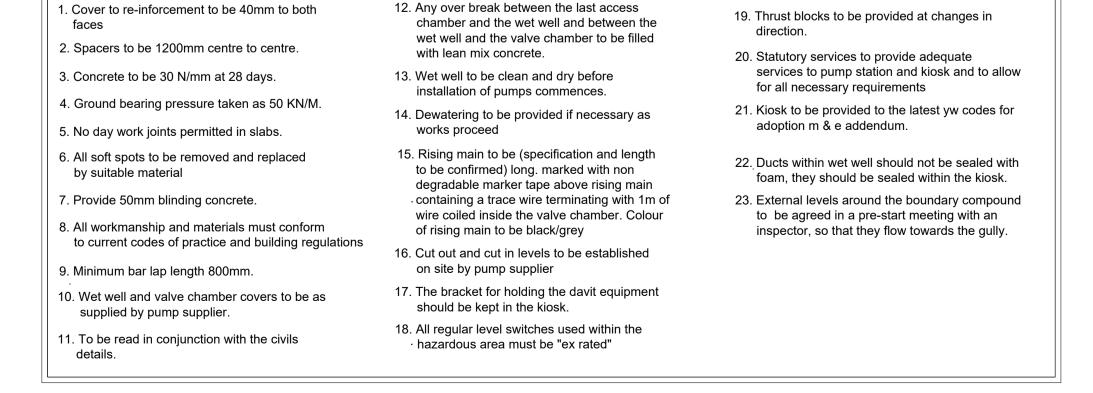








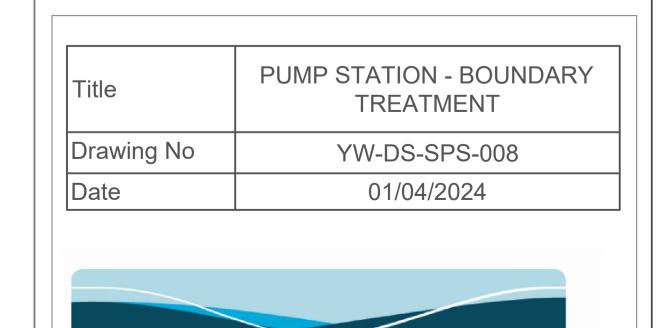




Notes

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Developer Services



YorkshireWater

For more information contact:

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