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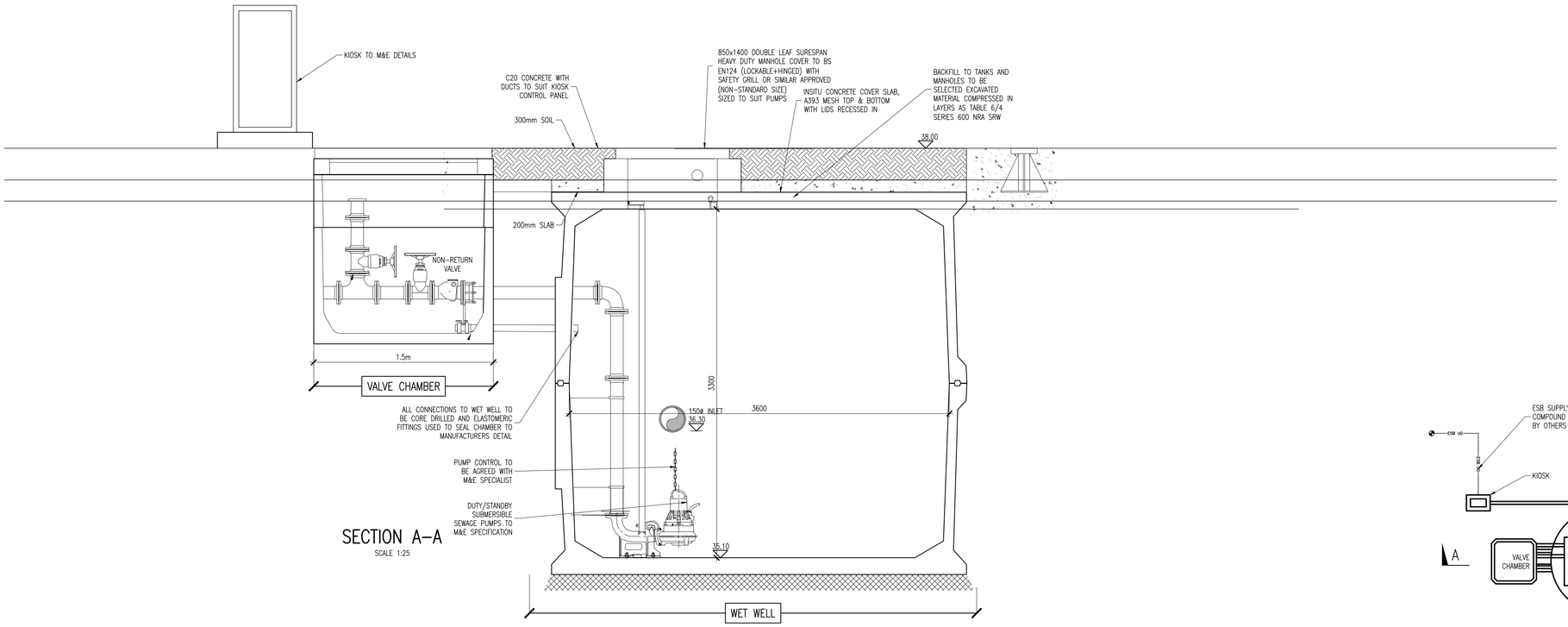
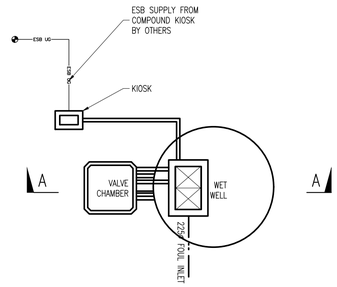
ON ORIGINAL

0 5 10 15 20 25 30 40 50mm



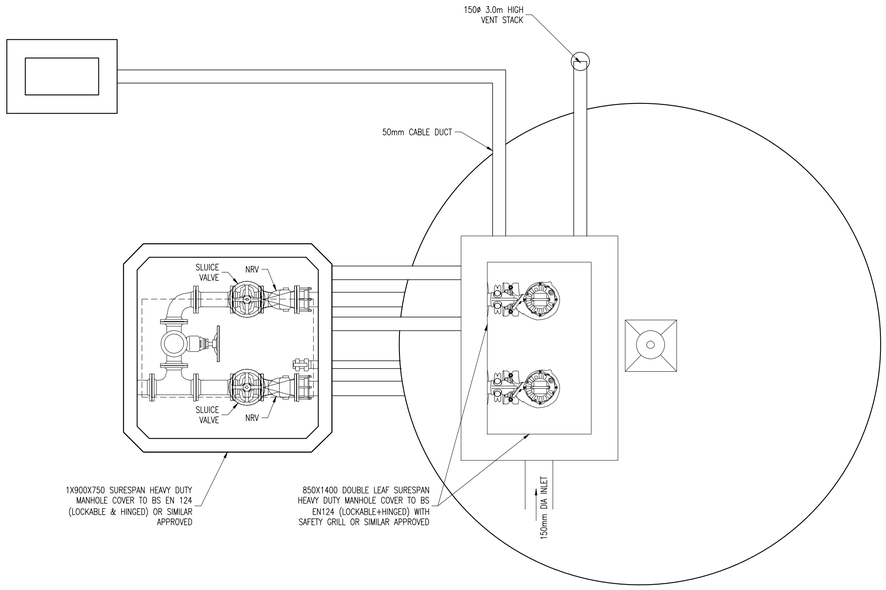
SECTION A–A
SCALE 1:25



GENERAL ARRANGEMENT
SCALE 1:100

NOTES:

1. CONTRACTOR TO ALLOW FOR ALARM SYSTEMS LINKED TO SIM CARD NOTIFICATION GSM & SYSTEM.
2. PUMPING STATION TO BE DESIGNED IN ACCORDANCE WITH LOCAL AUTHORITY REQUIREMENTS FOR SEWAGE PUMPING STATIONS.
3. THE PUMPS, ONE DUTY, ONE STANDBY SHALL BE OF THE CENTRIFUGAL, UNCHOKEABLE, SUBMERSIBLE TYPE.
4. PUMPS TO BE 3 PHASE DUTY/STANDBY ARRANGEMENT MIN. SOLIDS HANDLING SIZE TO BE 80mm.
5. PUMP TO BE EQUIPPED WITH QUICK RELEASE COUPLINGS COMPLETE WITH GALVANISED GUIDE RAILS, LIFTING CHAINS, CABLE SUSPENDERS AND CHAIN HOOKS.
6. ALL PIPE WORK SHALL BE DUCTILE IRON, COMPLETE WITH FLANGED COUPLINGS AND BENDS AS REQUIRED.
7. ALL PIPE WORK SHALL BE ADEQUATELY BRACED AND ASSEMBLED WITH ZINC PLATED BOLTS, NUTS WASHERS AND GASKETS.
8. KIOSK BASE WILL BE R.C. 200mm DEEP. LOCATION OF DUCTS INSERTS TO BE AGREED WITH CIVIL/M&E CONTRACTOR PRIOR TO INSTALLATION.
9. A MAGNETIC FLOW METER SHALL BE INSTALLED IN A SEPARATE CHAMBER ADJACENT TO THE VALVE CHAMBER.
10. ALL ACCESS COVERS/FRAMES TO BE HINGE AND LOCKABLE TYPE D400 TO BS EN 124. LIDS SHOULD BE SEALED TO PREVENT ODOURS.
11. DRAWINGS TO BE READ IN CONJUNCTION WITH STRATEGIC SITE SERVICES LAYOUT DRG
12. DUCTILE IRON PIPEWORK ENTERING THE WET-WELL TO BE CAST INTO WALLS WITH PUDDLE FLANGES ON THE PIPEWORK.
13. DAVITT POINT TO BE AGREED ON SITE WITH M&E CONTRACTOR.
14. 3 PHASE POWER SUPPLY TO KIOSK TO BE BROUGHT BY OTHERS
15. GROUNDWATER TABLE LEVEL ASSUMED 2.5m BELOW GROUND LEVEL
16. PE DIAMETERS ARE TO OUTSIDE OF PIPE. REFER TO MANUFACTURER'S INFO FOR INTERNAL DIAMETERS



PLAN OF WET WELL/VALVE AND METER CHAMBERS
SCALE 1:25

TYPICAL INSITU BALLAST CONCRETE SPECIFICATION:

CONCRETE GRADE: C28/35
MIN. CEMENT CONTENT: 320 kg/m³
MAX. W/C RATIO: 0.55
MAX. AGGREGATE SIZE: 20mm
STEEL FIBRE DOSAGE: 20 kg/m³
STEEL FIBRE TYPE: DRAMIX RL 45/50 BN (OR SIMILAR)

STANDARD LID DESIGN LOADS: (WET WELL)

IMPOSED LOAD: 10 kN/m² UDL OR 5,850 kg WHEEL LOAD
DEAD LOAD: UP TO 1m OVERBURDEN

STANDARD UNIT WEIGHTS: (WET WELL)

– STANDARD BASE UNIT: 6.1 TONNES
– 3m RISER: 4.0 TONNES
– LID UNIT: 1.5 TONNES

STANDARD DESIGN LOADS: (36m³ TANK)

LID:
IMPOSED LOAD: 10 kN/m² UDL OR 5,850 kg WHEEL LOAD
DEAD LOAD: UP TO 2m OVERBURDEN

TANK:
IMPOSED SURCHARGE: 10 kN/m² UDL (HA LOADING EQUIVALENT TO BS 5400-2)

NOTE: LARGE POINT LOADS SHOULD BE AVOIDED IN THE IMMEDIATE VICINITY OF THE TANK

STANDARD UNIT WEIGHTS: (36m³ TANK)

– BASE UNIT: 12.67 tonnes
– ROOF UNIT: 12.67 tonnes

rev	date	description	by	chkd.
P01	08-01-21	STAGE 3 SHD PLANNING	GMC	DMW

client approval: A - Approved; B - Approved with comments; C - Do not use

suitability: S2 - INFORMATION
issue purpose: SHD STAGE 3 PLANNING

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project ref.

THE GROVE SHD – STUDENT ACCOMMODATION SCHEME

drawing title

TYPICAL FOUL PUMPING ARRANGEMENT

client

COLBEAM LIMITED

designed by	author	scale	sheet size
DCG	JJB	AS NOTED	A1

drawing no.: 200012-DBFL-CS-SP-DR-C-5005
revision: P01