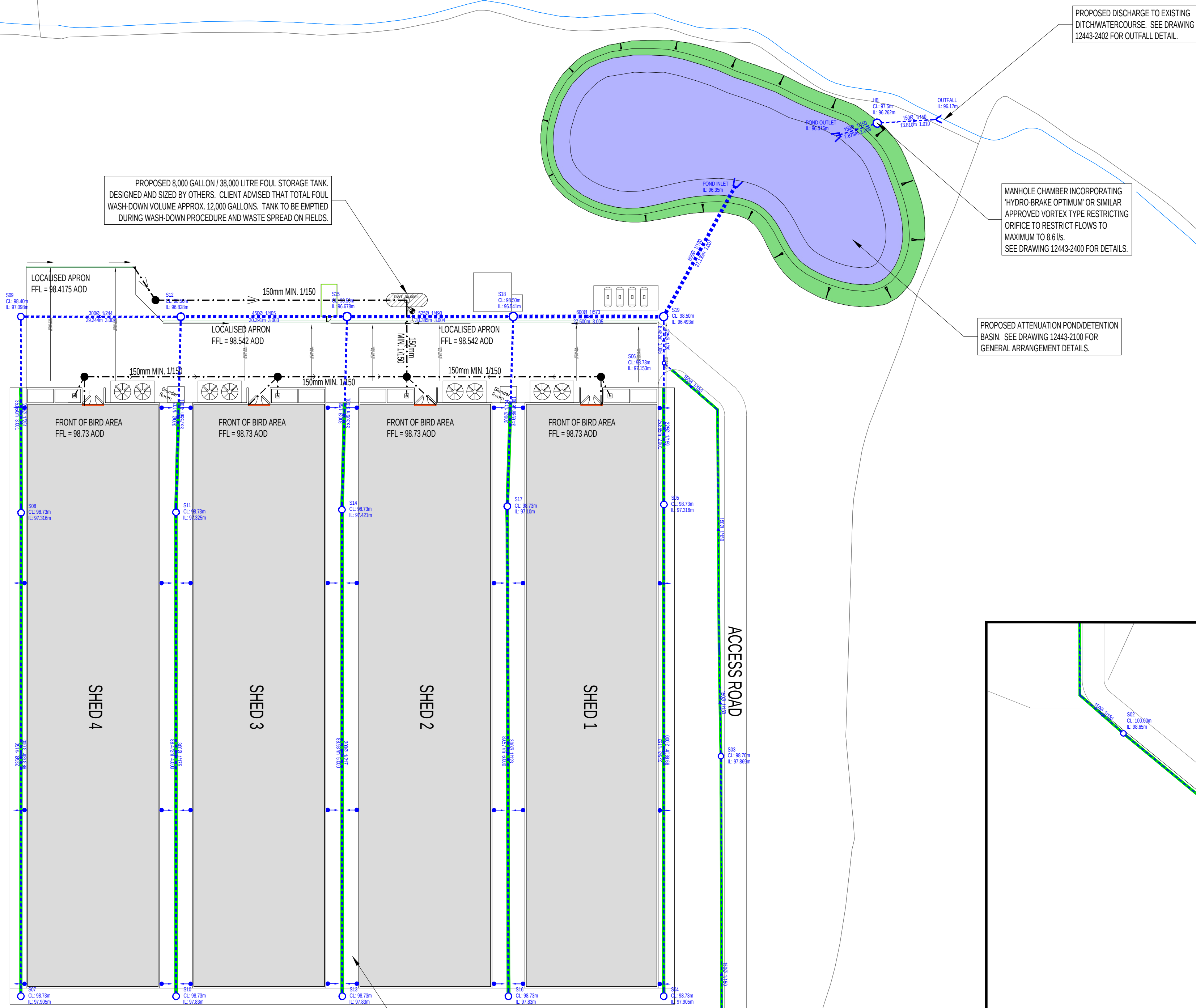
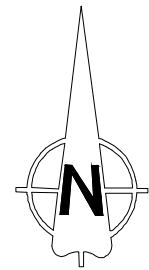




PROPOSED 8,000 GALLON / 38,000 LITRE FOUL STORAGE TANK. DESIGNED AND SIZED BY OTHERS. CLIENT ADVISED THAT TOTAL FOUL WASH-DOWN VOLUME APPROX. 12,000 GALLONS. TANK TO BE EMPTIED DURING WASH-DOWN PROCEDURE AND WASTE SPREAD ON FIELDS.

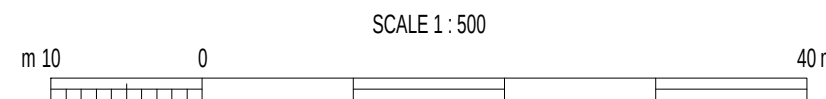
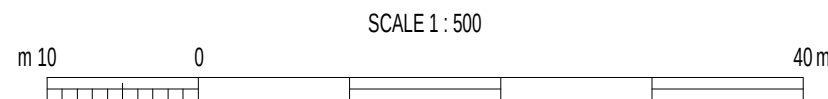
PROPOSED DISCHARGE TO EXISTING DITCH/WATERCOURSE. SEE DRAWING 12443-2402 FOR OUTFALL DETAIL.

MANHOLE CHAMBER INCORPORATING 'HYDRO-BRAKE OPTIMUM' OR SIMILAR APPROVED VORTEX TYPE RESTRICTING ORIFICE TO RESTRICT FLOWS TO MAXIMUM TO 8.6 l/s. SEE DRAWING 12443-2400 FOR DETAILS.

PROPOSED ATTENUATION POND/DETENTION BASIN. SEE DRAWING 12443-2100 FOR GENERAL ARRANGEMENT DETAILS.

TYPE B OR SIMILAR FILTER MATERIAL TO BE LAID ABOVE FILTER DRAIN FOR FULL WIDTH OF ACCESS. IT IS INTENDED THAT RAINWATER DOWNPIPES DISCHARGED DIRECTLY ONTO THIS MATERIAL.

LOCALISED FLOODING AT THIS LOCATION FOR SHORT DURATION (15 MIN.) 1 IN 100 YEAR + 30% CLIMATE CHANGE EVENTS, TO POND AROUND FILTER DRAIN BEFORE RECEDING AS THE STORM ENDS.



REPRODUCED FROM OS MASTERMAP 1:2500 SCALE BY PERMISSION OF ORDNANCE SURVEY ON BEHALF OF THE CONTROLLER OF HER MAJESTY'S STATIONERY OFFICE. © CROWN COPYRIGHT. ALL RIGHTS RESERVED. LICENCE NUMBER 100043718.

#### NOTES

- ALL DIMENSIONS IN MILLIMETRES AND ALL LEVELS IN METRES ABOVE ORDNANCE DATUM UNLESS SHOWN OTHERWISE.
- THIS DESIGN IS PROPOSED ON THE BASIS OF CLIENT BRIEF, SPECIFICATIONS, BEST PRACTICE AND RISK REDUCTION / ELIMINATION. THE DESIGNER MUST BE CONSULTED ON ANY PROPOSED CHANGES, BEFORE THEY ARE CONSIDERED FOR IMPLEMENTATION.

#### DRAWING LIST

| DRAWING REF. | DRAWING TITLE                                |
|--------------|----------------------------------------------|
| 12443-2000   | PROPOSED DRAINAGE LAYOUT                     |
| 12443-2100   | ATTENUATION POND GENERAL ARRANGEMENT DETAILS |
| 12443-2400   | FLOW CONTROL CHAMBER DETAIL                  |
| 12443-2401   | FILTER DRAIN TYPICAL DETAIL                  |
| 12443-2402   | OUTFALL HEADWALL DETAIL                      |

#### KEY

- EXISTING DITCH
- PROPOSED SURFACE WATER DRAIN & MANHOLE CHAMBER
- PROPOSED FILTER DRAIN AS DETAIL ON DWG NO. 12443-2401
- PIPE DIAMETER AND GRADIENT  
2250 1/169  
1.001
- PIPE REFERENCE
- PROPOSED EFFLUENT DRAIN & MANHOLE CHAMBER
- PROPOSED WASHOUT COLLECTION CHANNEL (DESIGNED BY OTHERS)
- ROOF RAINWATER DOWNPIPE (ASSUMED POSITION) TO DISCHARGE TO FILTER DRAIN

#### REFERENCE CALCULATIONS

12443-200006-SURFACE WATER DRAINAGE CALCULATIONS



CAUTION: THE MANAGEMENT AND DESIGN OF ANY AND ALL TEMPORARY WORKS REQUIRED TO EXECUTE THIS DESIGN ARE THE RESPONSIBILITY OF THE CONTRACTOR.

#### SITE LOCATION

GRID REFERENCE: 332431, 344057  
SITE ADDRESS: CINDERS FARM, RUABON, WREXHAM, LL14 6HL

|     |          |                                                        |    |     |     |
|-----|----------|--------------------------------------------------------|----|-----|-----|
| R02 | 07-08-20 | SURFACE WATER DISCHARGE OUTFALL LEVELS/DETAILS AMENDED | AR | DGJ | TM  |
| R01 | 24-06-20 | FOUL DRAINAGE DETAILS UPDATED                          | EO | AR  | APR |
| R00 | 05-06-20 | FIRST ISSUE                                            | AR | DGJ | TM  |

| REV. | DATE | DESCRIPTION | DSGND | CHK'D | APP'D |
|------|------|-------------|-------|-------|-------|
|------|------|-------------|-------|-------|-------|

#### CLIENT

WYNNSTAY HOME FARM

#### PRINCIPAL DESIGNER



Waterco Ltd., Eden Court,  
Lon Parcwr Business Park, Ruthin LL15 1NJ  
tel (+44) 1824 702220  
www.waterco.co.uk

#### SCHEME

CINDERS FARM, RUABON

#### TITLE

SURFACE WATER DRAINAGE LAYOUT

#### STATUS

APPROVAL

| DESIGNED | CHECKED | APPROVED | SCALE / SHEET SIZE |
|----------|---------|----------|--------------------|
| AR       | DGJ     | TM       | 1 : 500 / A1       |

| DRAWING NO. | REV |
|-------------|-----|
| 12443-2000  | R02 |