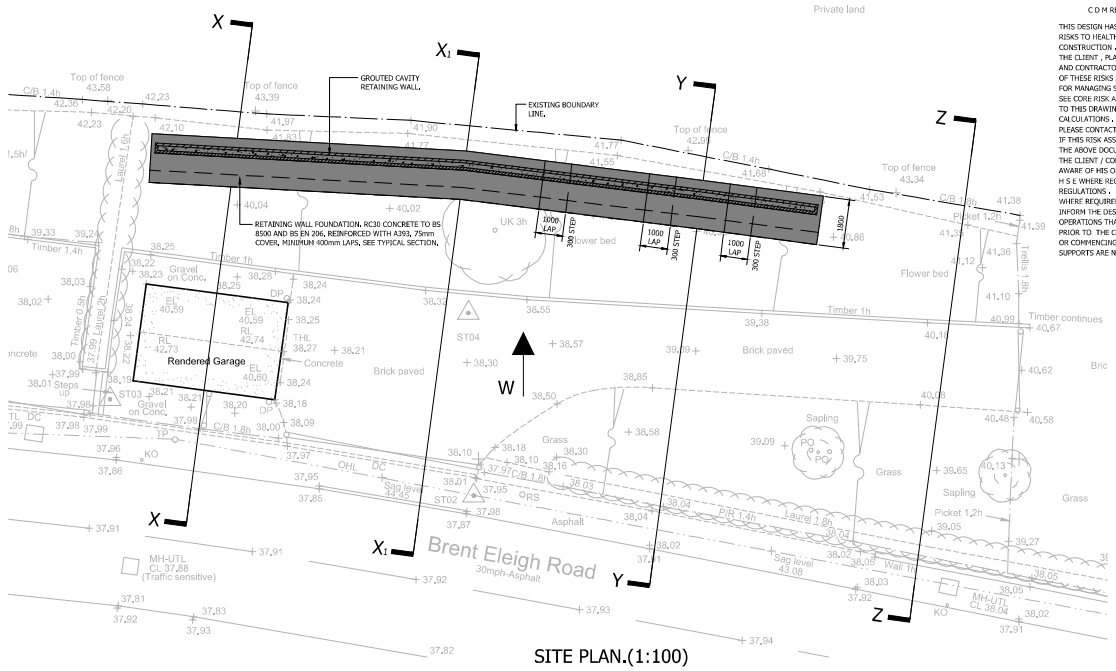
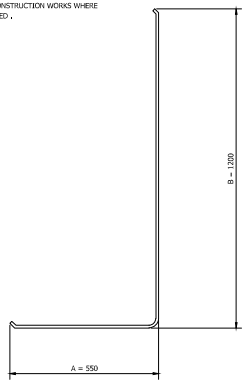


SITE PLAN.(1:100)

C D M REGULATIONS 2015

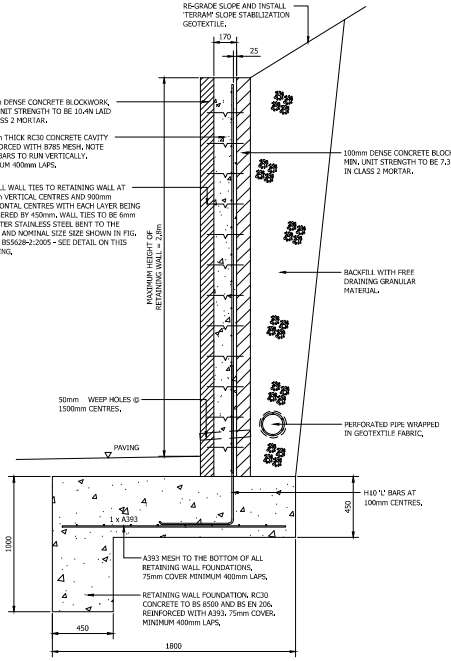
THIS DESIGN HAS BEEN PREPARED TO MINIMISE RISKS TO HEALTH AND SAFETY DURING CONSTRUCTION .
THE CLIENT , PLANNING SUPERVISOR AND CONTRACTOR SHOULD BE AWARE OF THESE RISKS AND MAKE PROVISIONS FOR MANAGING SUCH RISKS .
SEE CORE RISK ASSESSMENT ATTACHED TO THIS DRAWING OR INCLUDED IN THE CALCULATIONS .
PLEASE CONTACT THE DESIGNER / ENGINEER IF THIS RISK ASSESSMENT IS NOT WITHIN THE ABOVE DOCUMENTS .
THE CLIENT / CONTRACTOR SHOULD BE AWARE OF HIS OBLIGATION TO NOTIFY THE H S E WHERE REQUIRED UNDER THE C D M REGULATIONS .
WHERE REQUIRED THE CONTRACTOR SHOULD INFORM THE DESIGNER / ENGINEER OF ANY OPERATIONS THAT REQUIRE INSPECTION PRIOR TO THE COMPLETING OF THE OPERATION OR COMMENCING CONSTRUCTION WORKS WHERE SUPPORTS ARE NEEDED .



SHAPE CODE 11 TO BS8666:2005.
A = 550 B = 1200 LENGTH OF BAR = 1725mm

H10 'L' BARS.(1:10)

RETAINING WALL FOUNDATION STARTER BARS.



TYPICAL SECTION THRU RETAINING WALL.(1:20)

FOUNDATIONS - GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL SITE AND SETTING OUT DIMENSIONS BEFORE ANY WORKS COMMENCE ON SITE WITH ANY DISCREPANCIES BEING REPORTED TO THE ENGINEER.

2. ALL FOUNDATIONS ARE TO BE TAKEN TO THE DEPTHS INDICATED ON THE DRAWINGS AND ARE TO BEAR ON UNDISTURBED SUBSOIL.

3. WHERE LOCALISED CHANGES IN STRATA GIVE RISE TO DIFFERENCES IN BEARING CAPACITY SPECIAL PRECAUTIONS WILL BE NECESSARY. AT SOFT SPOTS EXCAVATIONS SHOULD BE DEEPENED LOCALLY TO A SOUND BOTTOM OR, ALTERNATIVELY REINFORCED, HARD SPOTS SHOULD BE REMOVED, ANY LOCALISED CHANGES IN STRATA SHOULD BE REPORTED TO THE ENGINEER IMMEDIATELY.

4. WHEN A TRENCH IS EXCAVATED IN CLAY SUB-SOILS, THE BASE OFTEN HAS SOME TOOTH MARKS IN IT MADE BY THE EXCAVATOR BUCKET, PROVISED THAT THE CLAY SOIL BETWEEN THE TOOTH MARKS IS NOT LOOSE IN THE TRENCH BASE THERE IS NO NEED TO BOTTOM OUT THE TRENCH BY HAND. IF HOWEVER THERE IS ANY LOOSE SOIL IT SHOULD BE REMOVED.

5. IMMEDIATELY A TRENCH IS EXCAVATED IN CLAY SOIL THE STRIP FOOTING OR TRENCH FILL CONCRETE SHOULD BE PLACED (PREFERABLY THE SAME DAY) TO AVOID THE CLAY BASE FITHER DRYING OUT OR BECOMING WET,

6. WHERE TRENCH BOTTOMS BECOME EXCESSIVELY DRIED OR SOFTENED DUE TO RAIN OR GROUND WATER, THE EXCAVATION SHOULD BE RE-BOTTOMED PRIOR TO CONCRETING.

7. CONCRETE MUST NOT BE POURED IN STANDING OR FLOWING WATER IN A TRENCH.

8. UNDER THE CDM REGULATIONS ALL PERSONAL MUST BE MADE AWARE OF THE REQUIREMENTS UNDER THE HEALTH AND SAFETY PLAN FOR ENTERING TRENCHES, ESPECIALLY WHERE GROUND INSTABILITY MAY OCCUR OR TRENCH DEPTH EXCEEDS 1.2m.

9. EXCAVATIONS OVER 1.2m DEEP TO BE SHORED AGAINST COLLAPSE.

10. STEPS IN FOUNDATIONS ARE NOT TO EXCEED 0.5m.

11. IT IS RECOMMENDED THAT PLAIN UNREINFORCED CONCRETE MADE WITH ORDINARY PORTLAND CEMENT IS LEFT FOR AT LEAST 4 DAYS TO CURE PRIOR TO PROCEEDING WITH SUB-STRCUTURE MASONRY,

12. FOR TRENCH FILL FOUNDATIONS IN CLAY SUB SOIL ANTI-HEAVE PRECAUTIONS ARE TO BE PROVIDED FOR FOUNDATIONS THAT ARE 1.5m DEEP OR GREATER AND ARE TO TERMINATE 500mm ABOVE FORMATION ALL IN ACCORDANCE WITH NHBC GUIDE LINES CHAPTER 4.2 - 'BUILDING NEAR TREES'.

13. DAY JOINTS. CONSTRUCT DAY JOINTS USING 6NO. H20 BARS 600mm LONG. NOTE DAY JOINTS ARE NOT TO OCCUR ON CORNERS OR AT STEPS. JOINTS SHOULD BE POSITIONED A MIN. OF 1.0m AWAY FROM ANY CORNER OR STEP.

14. UNLESS INDICATED OTHERWISE MASS CONCRETE FOUNDATIONS AND TRENCH FILL FOUNDATIONS TO BE GEN3 CONCRETE TO BS 8500 AND BS EN 206. MINIMUM COMPRESSIVE STRENGTH 20N/mm².

DESIGNATED CONCRETE MIXES TO BS 8500 & BS EN 206

DESIGNATED MIX	COMPRESSIVE STRENGTH (N/mm²)	CEMENT CLASS	TYPICAL APPLICATION	MINIMUM CEMENT CONTENT (kg/m³)	MAX. PORE WATER/ CEMENT RATIO	TYPICAL SLUMP (mm)	CONSISTENCE CLASS
GEN 0	7.5	C+/32.5	KERB BEDDING AND BACKING	120	N/A	NOMINAL 10	S1
GEN 1	10	C8/10	BLINDING AND WORK CONCRETE FILL, EXPOSED PADS, CHAMBER BELOW SUSPENDED SLABS.	180	N/A	75	S3
				180	N/A	30-60	S1
				180	N/A	75	S3
GEN 3	20	C16/20	MASS CONCRETE FOUNDATIONS. STRIP FOOTINGS. FOUNDATIONS.	220	N/A	75	S3
				220	N/A	125	S4
FND 2,3 4 OR 4A	35	C28/35	FOUNDATIONS IN AGRESSIVE CONDITIONS 2,3,4 OR 4A	320-380	0.45-0.35	75	S3
RC30	30	C35/30	REINFORCED CONCRETE	280	0.45	50-100	S3
RC35	35	C28/35		280	0.40	50-100	S3
RC40	40	C32/40		380	0.35	50-100	S3
RC50	50	C40/50		340	0.45	50-100	S3

WHERE STRENGTH CLASS C28/35 INDICATES THAT THE MINIMUM CHARACTERISTIC CYLINDER STRENGTH IS 28N/mm² AND CUBE STRENGTH 35N/mm².

SOURCE: BS EN 206: PART 1: 2004: TABLE A, 13 ADAPTED.

15. FOR BURIED CONCRETE IN AGGRESSIVE GROUND, CONCRETE SHALL BE DESIGNED IN ACCORDANCE WITH BRE SPECIAL DIGEST 1:2005. (SD1:2005)

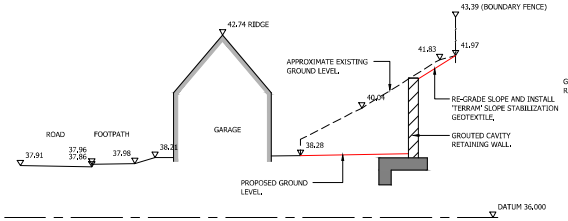
16. ANY UNEXPECTED SITE CONDITIONS ARE TO BE REPORTED TO THE ENGINEER IMMEDIATELY SO THAT THE DESIGN CAN BE REVIEWED AND ALTERED IF NECESSARY.

17. THE CONTRACTOR IS RESPONSIBLE AND LIABLE FOR ENSURING THE STABILITY OF THE WORKS AND SERVICES AT ALL STAGES OF CONSTRUCTION, UNLESS SHOWN ON THE PROJECT DRAWINGS, WE HAVE NO KNOWLEDGE OF EXISTING UNDERGROUND SERVICES OR OBSTRUCTIONS.

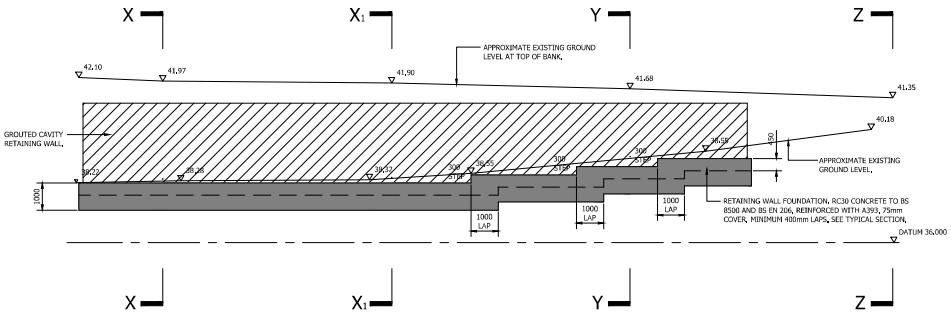
18. REMAINING TREES. IN ORDER TO AVOID UNACCEPTABLE DAMAGE AS A RESULT OF CONSTRUCTION ACTIVITY, AN AREA AROUND EACH REMAINING TREE SHOULD BE PROTECTED FROM DISTURBANCE BY FENCING. THIS SHOULD NOT BE REMOVED OR BREACHED DURING CONSTRUCTION OPERATIONS WITHOUT PRIOR CONSULTATION WITH AN ARBORICULTURAL SPECIALIST. THE FENCING SHOULD PROTECT AS LARGE AN AREA AROUND THE TREE AS POSSIBLE AFTER CONSIDERATION OF ALL CONSTRUCTION OPERATIONS IN THE VICINITY. FURTHER GUIDANCE IS GIVEN IN BS5837.

19. THE TYPE AND GRADE OF STEEL REINFORCEMENT SHALL BE DESIGNATED AS FOLLOWS:

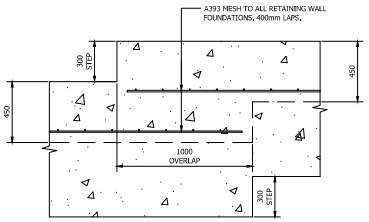
TYPE OF STEEL REINFORCEMENT	NOTATION
GRADE B500A, GRADE B500B OR GRADE B500C CONFORMING TO BS 4449:2005	H
GRADE B500A CONFORMING TO BS 4449:2005	A
GRADE B500B OR GRADE B500C CONFORMING TO BS 4449:2005	B
GRADE B500C CONFORMING TO BS 4449:2005	C
A SPECIFIED GRADE AND TYPE OF RIBBED STAINLESS STEEL CONFORMING TO BS 6744:2001	S
REINFORCEMENT OF A TYPE NOT INCLUDED IN THE ABOVE LIST HAVING MATERIAL PROPERTIES THAT ARE DEFINED IN THE DESIGN OR CONTRACT SPECIFICATION.	X
NOTE: IN THE GRADE DESCRIPTION B500A ETC., "B" INDICATES REINFORCING STEEL.	



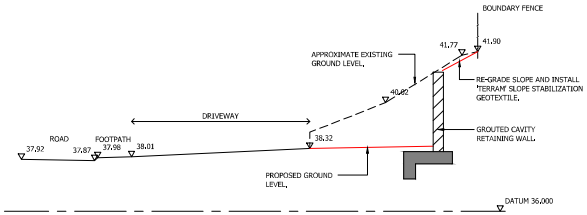
SECTION X - X.(1:100)



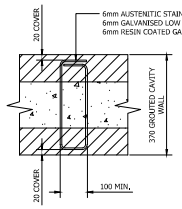
ELEVATION AT 'W'.(1:100)



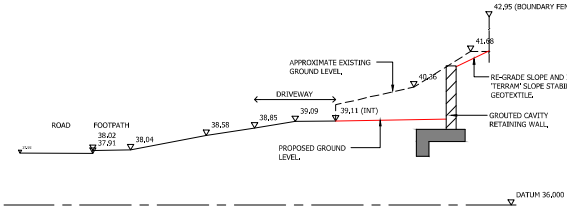
FOUNDATION OVERLAP.(1:20)



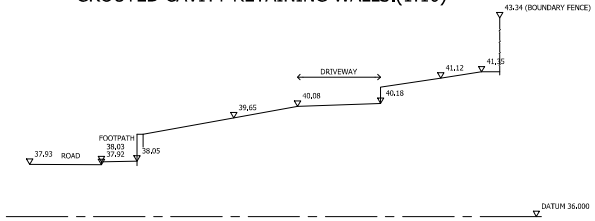
SECTION X1 - X1.(1:100)



BS 5628-2:2005 FIG. B.1 WALL TIES FOR HIGH LIFT GROUTED CAVITY RETAINING WALLS.(1:100)

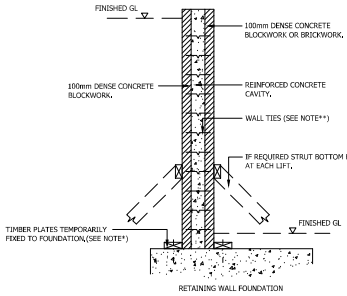


SECTION Y - Y.(1:100)



SECTION Z - Z.(1:100)

CONSTRUCTING GROUTED CAVITY RETAINING WALLS



ENSURE FIRST RUN OF WALL TIES ARE INSTALLED AT THE TOP OF THE FIRST COURSE OF BLOCKS. WALL TIES TO BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS LAID DOWN IN BS5628-2:2005, 'STRUCTURAL USE OF REINFORCED MASONRY'.

**WALL TIES TO BE OF THE TYPE, SIZE AND CONFIGURATION RECOMMENDED IN BS5628-2:2005.

*TIMBER PLATE TEMPORARILY FIXED TO RETAINING WALL FOUNDATION TO PREVENT SLIDING OF THE FIRST BLOCK COURSE WHEN CONCRETING IS TAKING PLACE.

ENSURE THAT BOTH BLOCKWORK SKINS ARE BROUGHT UP IN UNISON, BLOCKWORK TO BE BROUGHT UP IN SHORT LIFTS WITH THE CAVITY FOR EACH LIFT BEING CONCRETED BEFORE COMMENCEMENT OF THE NEXT LIFT, ENSURE THE START OF EACH LIFT OCCURS AT A TIED COURSE.

ENSURE BLOCKWORK SKINS ARE CURED TO A SUFFICIENT STRENGTH BEFORE FILLING WITH CONCRETE. AFTER THE CAVITY HAS BEEN FILLED ENSURE CONCRETE HAS CURED SUFFICIENTLY BEFORE COMMENCEMENT OF THE NEXT LIFT.

ENSURE THE CONCRETE MIX IS KEPT AS DRY AS POSSIBLE CONDUCIVE WITH ITS COMPACTION. CONCRETE IS TO BE PLACED CAREFULLY IN THE CAVITY TAKING CARE TO ENSURE IT IS NOT DROPPED INTO THE CAVITY FROM AN EXCESSIVE HEIGHT.

A FULL 28 DAYS SHOULD BE ALLOWED FOR AFTER THE LAST POUR BEFORE ANY BACKFILL LOADS ARE APPLIED TO THE WALL.

THE CONTRACTOR IS RESPONSIBLE AND LIABLE FOR THE STABILITY OF ALL WORKS AT ALL STAGES OF CONSTRUCTION, ENSURE ALL TEMPORARY PROPPING AND SHORING IS ADEQUATELY FOUNDED AT ALL STAGES OF CONSTRUCTION. WHERE REQUIRED BY THE RISK ASSESSMENTS METHOD STATEMENTS SHALL BE PREPARED FOR THE TEMPORARY WORKS AND SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF ANY WORKS.

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Do Not Scale

Rev'n	Date	Amendments

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Project

FENN COTTAGE MONKS ELEIGH
IPSWICH IP7 7JG.

Drawing Title

RETAINING WALL TO FRONT DRIVEWAY.

Drawn By	Scales	Drawing Number
S.E.	AS SHOWN @ A1	2508 / 1
Date: NOV. 2023	C.A.D. Reference: 2508 Model.dwg	