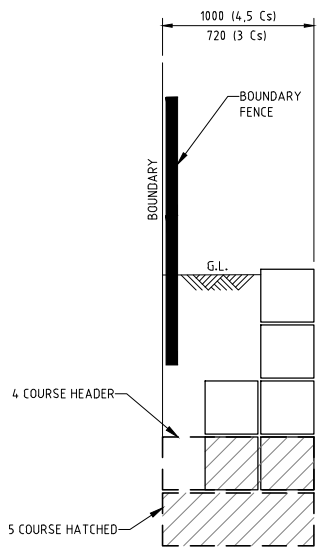


TYPE 1 & 2 WALL DIMENSIONS

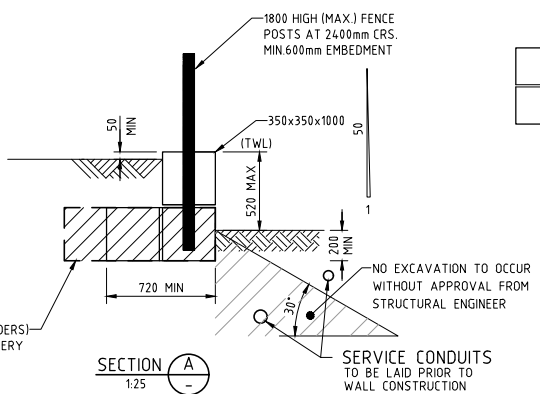
NO. OF COURSES	TOTAL HEIGHT "H"+ "D"	MAX. EFFECTIVE HEIGHT "H"	MIN. BASE WIDTH "W"	
			TYPE 1	TYPE 2
3	1090	740	1000	720
4	1460	1110	1370	1000
5	1830	1480	1370	1000
6	2200	1850	1740	1090
7	2570	2220	1830	1370
8	2940	2590	2000	1370
9	3310	2960	2200	1740
10	3680	3330	2390	1740
11	4050	3700	2760	2200
12	4420	4070	2850	2200
13	4790	4440	3130	2480
14	5160	4790	3410	
15	5530	5180	3780	
16	5900	5550	4050	
17	6270	5920	4420	
18	6640	6290	4890	

TYPE 1 = STRUCTURAL RETAINING WALL - STRUCTURE TO BE ON BOUNDARY OR MIN. 1.0m AWAY.

TYPE 2 = NON STRUCTURAL RETAINING WALL - NO STRUCTURE OR OFFSET MIN. OF (H + W + D)

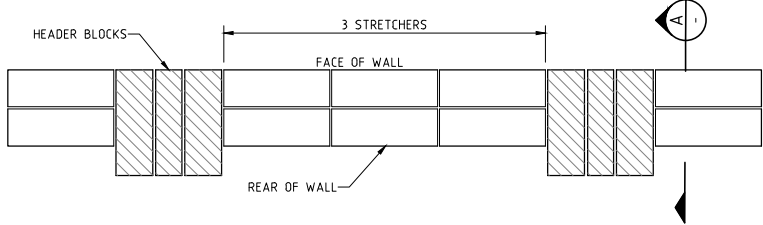


TYPE 2 (OFFSET)
(REFER LONGSECTIONS)

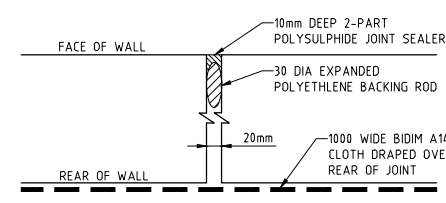


SECTION A
1:25

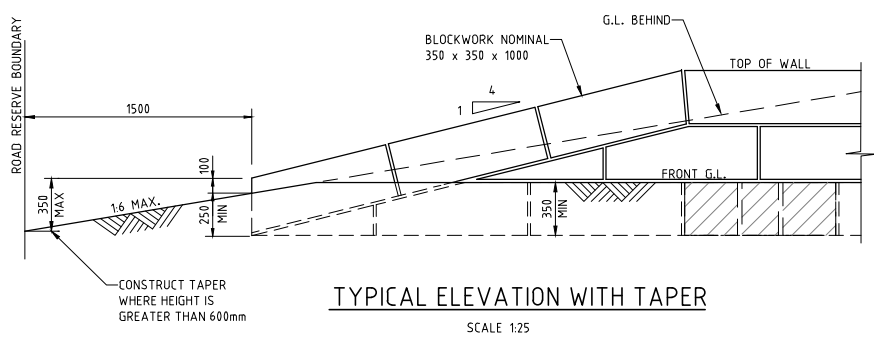
SECTION B
1:25
TYPE 2 RETAINING WALL



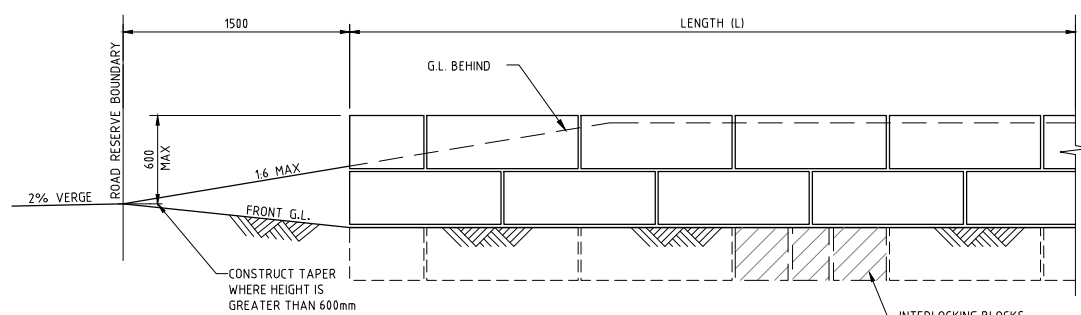
TYPE 1 - 2 COURSE WALL - BASE PLAN
NOT TO SCALE



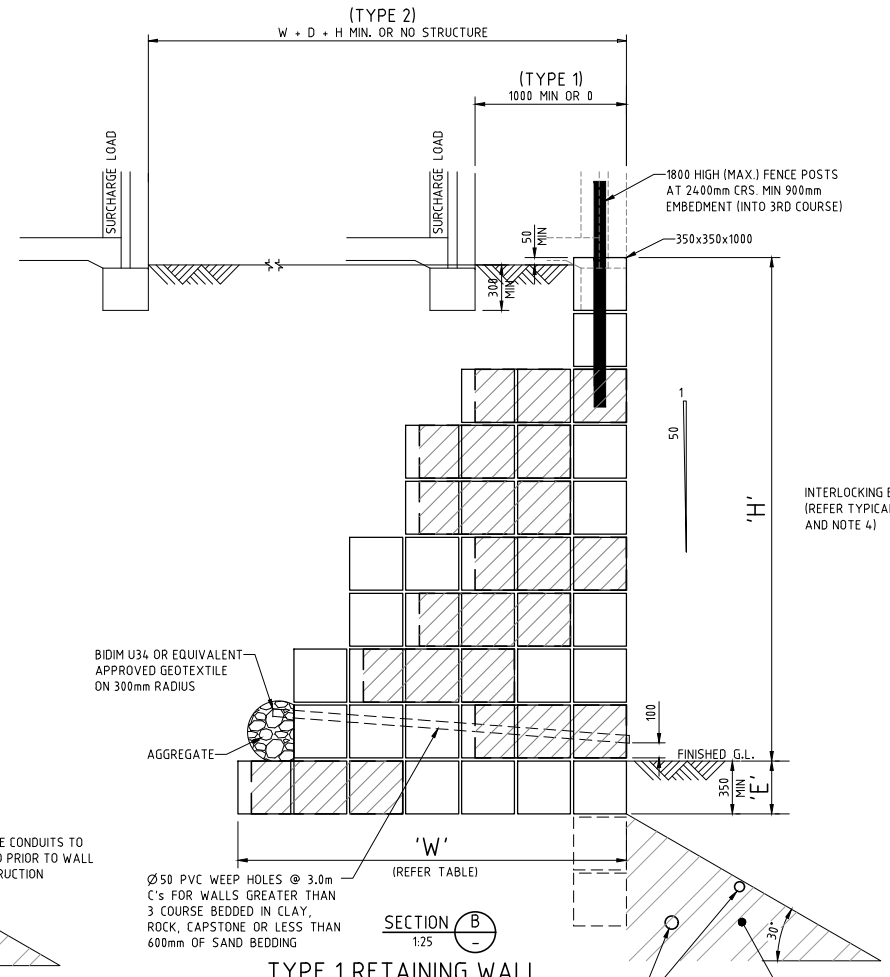
CONTROL JOINT DETAIL (CJ)
NOT TO SCALE



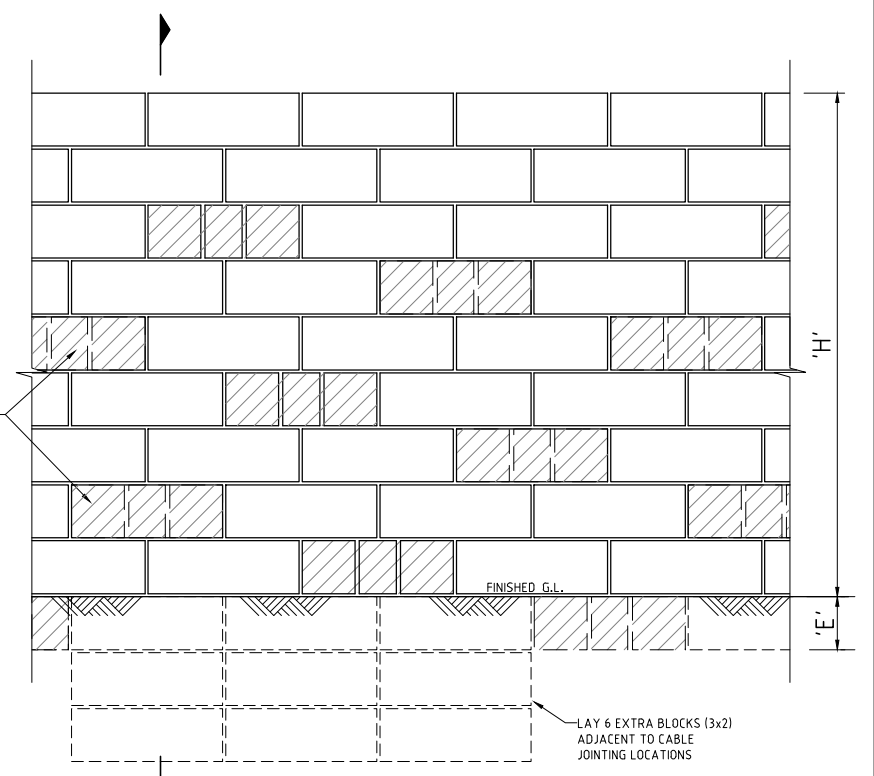
TYPICAL ELEVATION WITH TAPER
SCALE 1:25



TYPICAL ELEVATION WITHOUT TAPER
SCALE 1:25



SECTION B
1:25
TYPE 1 RETAINING WALL



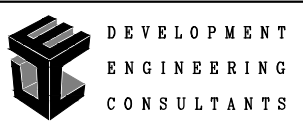
ELEVATION WITH INTERLOCKING DETAILS
(3 COURSES OR MORE)
SCALE 1:25

NOTES:

- DESIGN**
THE WALL IS DESIGNED FOR STABLE SAND (CLASS 'A') OR SLIGHTLY REACTIVE CONDITIONS (CLASS 'S') TO AS2870, WITH FREE DRAINING GRANULAR BACKFILL AND MIN 600mm SAND PAD BELOW BASE. FOUNDATION TO BE FREE OF DELETERIOUS MATERIAL. MAXIMUM WATER TABLE TO BE BELOW BOTTOM OF WALL, IF OTHER CONDITIONS ARE ENCOUNTERED ON SITE, CONTACT THE ENGINEER PRIOR TO CONSTRUCTION.
- WALL TYPE 1**
DEAD LOADS (INCLUDING BUILDINGS) PLACED BEHIND WALLS SHOULD BE NO CLOSER THAN 1.0m UNLESS LOCATED DIRECTLY ON TOP. MAXIMUM SURCHARGE LOAD TO BE 40kN/m WHICH ALLOWS FOR A TWO STOREY BUILDING.
- WALL TYPE 2**
ENSURE DEAD LOAD (INCLUDING BUILDINGS) PLACED BEHIND WALLS IS NO CLOSER TO THE WALL THAN A DISTANCE EQUAL TO H+E+W. MAXIMUM SURCHARGE LOAD TO BE 2.5kPa WHICH INCLUDES LIGHT VEHICLE SURCHARGE.
- COMPACTION**
COMPACT THE SOIL AT THE BASE TO 100kPa ALLOWABLE BEARING CAPACITY OR 95% MODIFIED MAXIMUM DRY DENSITY FOR A MINIMUM DEPTH OF 600mm BELOW BASE OF WALL.
- LIMESTONE**
LIMESTONE TO BE RECONSTITUTED BLOCKS (MINIMUM DENSITY OF 1800kg/m AND MINIMUM COMPRESSIVE STRENGTH OF 2MPa). FULL BLOCKS TO BE 350x350x1000. HALF BLOCKS TO BE 165x350x1000. ALTERNATIVELY 240x350x100 BLOCKS CAN BE USED TO MEET MINIMUM WALL DIMENSIONS. BLOCKS ARE TO BE LAID IN STRETCHER BOND. LIMESTONE TO BE FREE FROM SOFT POCKETS AND GENERALLY FREE FROM SURFACE DEFECTS.
- INTERLOCKING BLOCKS**
FOR WALL TYPE 1 AND/OR WHEN FENCE POSTS ARE TO BE CORE DRILLED INTO WALL, PROVIDE INTERLOCKING BLOCKS (HEADERS) AT 4m CENTRES. LOCATE AT 3c AND EACH COURSE THEREAFTER WITH INTERLOCKING SETS TO BE STAGGERED WITH ADJACENT COURSE.
- JOINTS**
ALL JOINTS ARE TO BE MORTARED WITH 1:16 (CEMENT:LIME:SAND). MORTAR TO BE M3 CLASSIFICATION, EXCEPT PROJECTS LOCATED WITHIN 1km OF THE OCEAN ARE TO BE M4 CLASSIFICATION. CEMENTS OTHER THAN TYPE GP PORTLAND CEMENT & 100% WHITE PORTLAND CEMENT SHALL NOT BE USED. RUBBLE NOT TO BE USED TO FILL VOIDS. ALL JOINTS ARE TO BE 20mm.
- BACKFILL**
DO NOT BACKFILL WALL UNTIL AT LEAST 7 DAYS AFTER COMPLETION. BACKFILL TO BE COMPACTED TO A 95% MODIFIED MAXIMUM DRY DENSITY OR EQUIVALENT.
- CONTROL JOINTS**
PROVIDE 20mm CONTROL JOINTS WHERE SHOWN ON DESIGN DRAWINGS OR OTHERWISE AT MAX 40m CENTRES IN STRAIGHT LENGTHS OF WALLS. WHERE WALL CHANGES DIRECTION, CONTROL JOINTS ARE LOCATED 1m FROM THE CORNER FOR WALLS TO 4c IN HEIGHT, 1.5m FOR WALLS BETWEEN 5c AND 8c IN HEIGHT, AND 2m FROM THE CORNER FOR WALLS 9c AND ABOVE.
FOR WALLS 9c AND ABOVE:
FILL JOINTS WITH 30DIA EXPANDED POLYETHYLENE BACKING ROD, COVERED WITH A 10mm 2-PART POLYSULPHIDE JOINT SEALER.
- COMPLETION**
THE CONTRACTOR SHALL PROVIDE WRITTEN CERTIFICATION OF PRACTICAL COMPLETION THAT THE WALL CONSTRUCTION AND BACKFILLING HAS BEEN CARRIED OUT IN ACCORDANCE WITH THIS DRAWING & SPECIFICATIONS.
ALL WALLS FACING ROAD RESERVES, P.A.W.'S & P.O.S.'S ARE TO BE TREATED WITH A NON SACRIFICIAL ANTI-GRAFFITI COATING.

NO.	DATE	BY	REVISION
0	29/01/18	JTH	ISSUED FOR CONSTRUCTION
B	21/09/17	SWW	ISSUED FOR APPROVAL
A	31/03/17	SWW	ISSUED FOR APPROVAL & TENDER

CLIENT:
TERRANOVIS PTY LTD



DEVELOPMENT ENGINEERING CONSULTANTS
SUITE 3, 123A COLIN ST, WEST PERTH, 6005 WESTERN AUSTRALIA
Ph: (08) 9481 1900 Fax: (08) 9481 1700

PROJECT:
LOTS 2 & 3 ANKETELL ROAD ANKETELL-STAGE 1A
W.A.P.C. No. - 153400 & 153398

DRAWING:
EARTHWORKS RETAINING WALLS STANDARD DETAILS
CAD DRAWING DO NOT MANUALLY ALTER

SCALE	DRAWN	CHECK	REV No.
AS SHOWN	JTH	SRA	0
DATE	DESIGNED	APPROVED	
24/03/17	JTH	SRA	
PROJECT NUMBER		DRAWING NUMBER	
ANKTER11		E06	