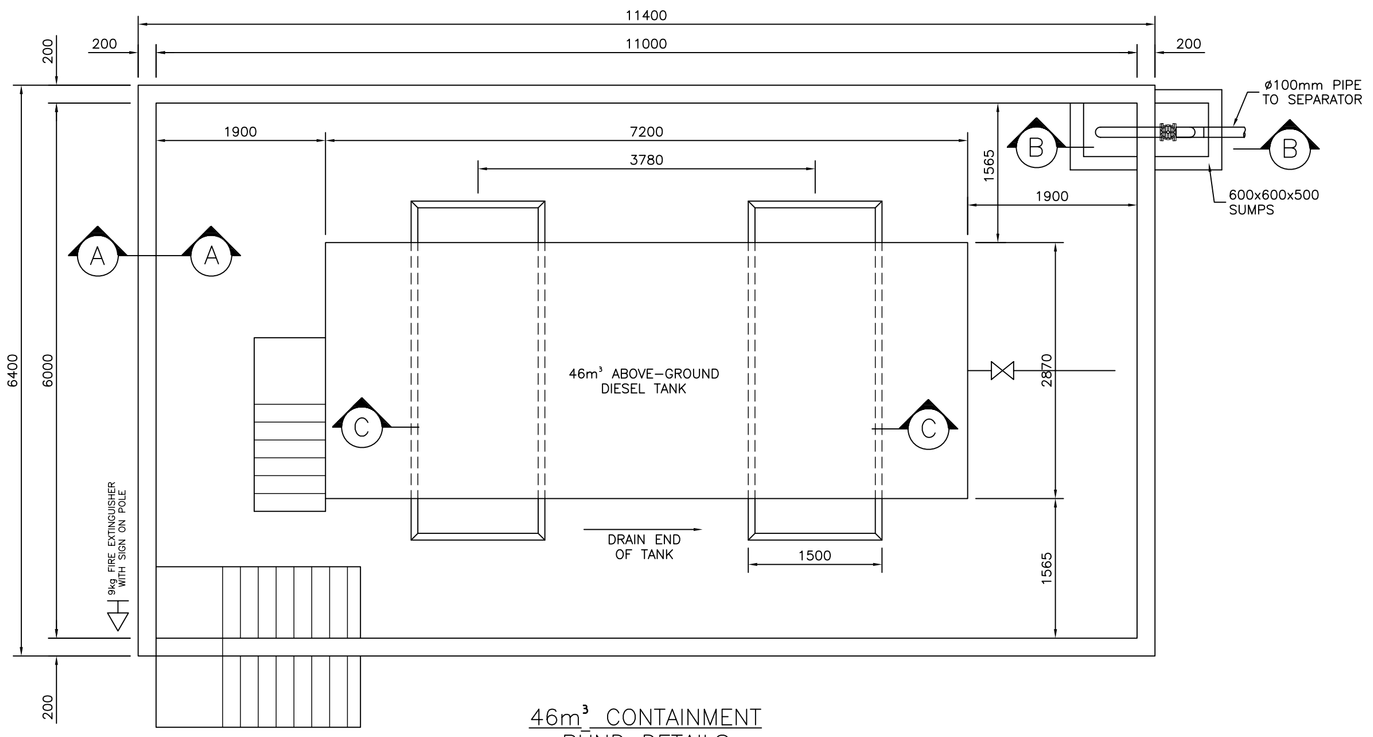
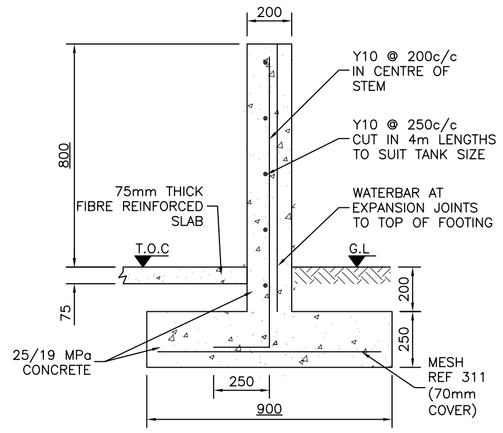
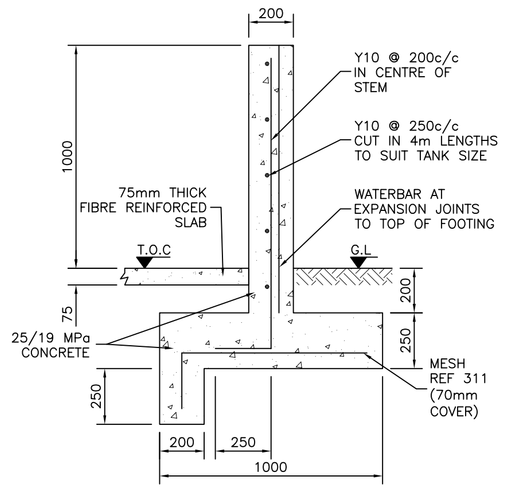


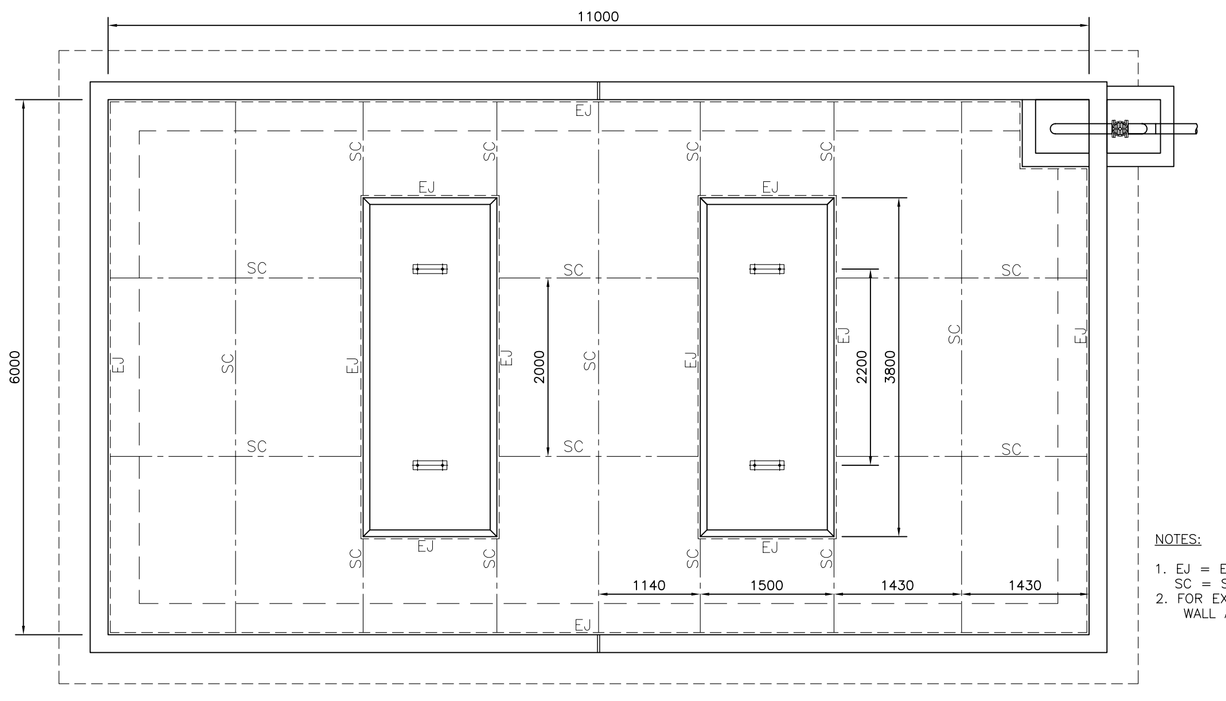
46m³ CONTAINMENT BUND DETAILS
1:50



SECTION A–A THROUGH BUNDWALL
1:20



ALTERNATIVE SECTION FOR 1m BUNDWALL
1:20

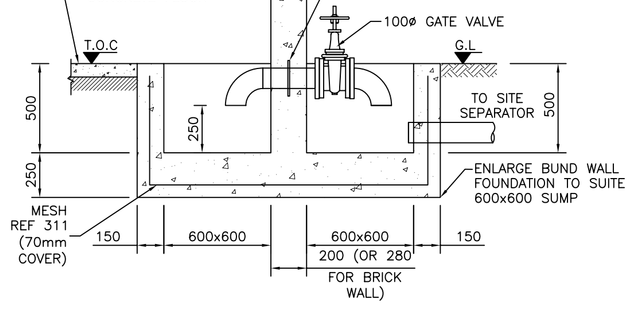


46m³ CONTAINMENT BUND DETAILS
1:50

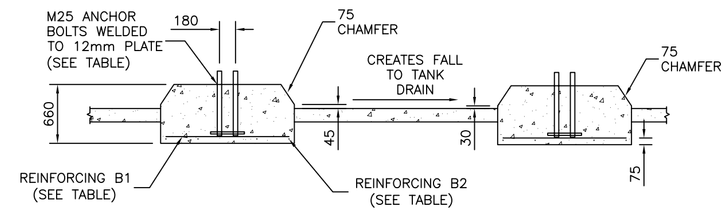
NOTES:

1. EJ = EXPANSION JOINT
   SC = SAW CUT JOINT
2. FOR EXPANSION JOINT AGAINST WALL AND PLINTH REFER TO DETAILS

ALTERNATIVE SECTION A–A THROUGH BUNDWALL
1:20

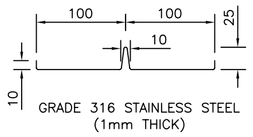


SECTION B–B
1:25

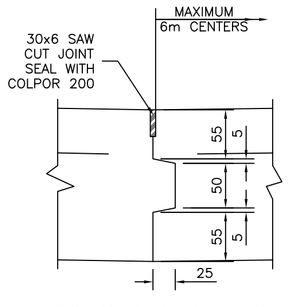


SECTION C–C FOUNDATION LAYOUT
1:50

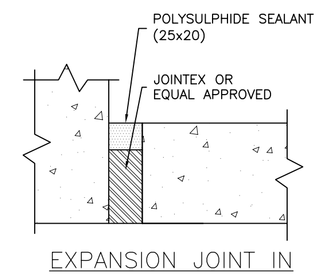
TANK FOUNDATION REINFORCEMENT TABLE						ANCHOR BOLTS	
TANK SIZE (m^3)	LAYER	MEMBER	C/C	LENGTH	NO OFF	ANCHOR BOLT LENGTH	PLATE SIZE
46,0	B1	R8	500	1350	8	610	380x100
	B2	R8	225	3600	6		



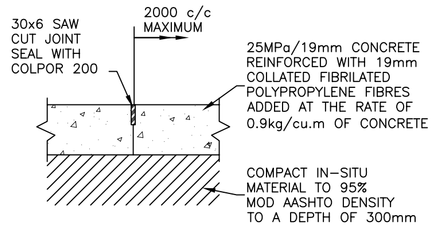
WATERBAR DETAIL (TYPICAL)
1:5



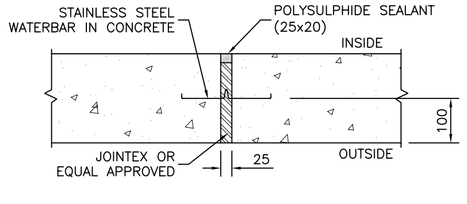
CONSTRUCTION JOINT (TYPICAL)
1:5



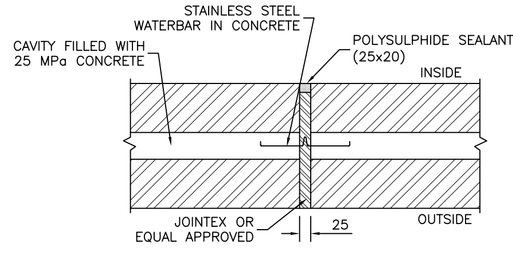
EXPANSION JOINT IN CONCRETE FLOOR (TYPICAL)
NTS



SAW CUT JOINT (TYPICAL)
NTS



EXPANSION JOINT IN CONCRETE WALL (TYPICAL)
1:10



EXPANSION JOINT IN BRICK WALL (TYPICAL)
1:10

GENERAL NOTES:

1. ALL WORK TO BE IN ACCORDANCE WITH THE SANS CODES OF PRACTICE & LOCAL MUNICIPAL BY-LAWS.
2. ALL WORK TO BE IN ACCORDANCE WITH ENGEN SPECIFICATIONS AND TO THEIR APPROVAL.
3. PUMP AND TANK INSTALLATION TO BE IN STRICT ACCORDANCE WITH SANS 10131:2003 (LATEST EDITION) SPECIFICATIONS AND ENGEN ENGINEERING GUIDES EGE50-B-L1, EGE50-B-L2 AS AMENDED BY ADDENDUM 00 AUGUST 1999, AND EGE50-B-L5. THESE DOCUMENTS TO BE READ IN CONJUNCTION WITH THE PETROTECHNIK PRODUCT DATA MANUAL SPECIFYING FITTINGS AND INSTALLATION PROCEDURES. WHILST SANS 10131:2003 (LATEST EDITION) MUST BE COMPLIED WITH IN FULL, MORE DEMANDING REQUIREMENTS IN THE LOCAL AUTHORITY BY-LAWS, ENGEN ENGINEERING GUIDES AND PETROTECHNIK MANUAL WILL OVERRIDE THOSE IN THE SANS DOCUMENTS.
4. ALL WORK TO PUMP AND TANK INSTALLATION TO BE EXECUTED IN STRICT ACCORDANCE WITH THE ABOVE SPECIFICATIONS AND TO THE SATISFACTION AND APPROVAL OF THE LOCAL ENGEN ENGINEERING REPRESENTATIVE.
5. ALL ELECTRICAL WORKS SHALL COMPLY WITH SANS 10089:2 (LATEST EDITION).
6. ALL SAFETY SIGNS SHALL COMPLY WITH SANS 1186:1 (LATEST EDITION).
7. THE "NO SMOKING" & "NO NAKED LIGHTS" SIGNAGE MUST BE DISPLAYED.

FIRE PROTECTION NOTES:

1. ALL WORK TO COMPLY WITH SANS 10400, SANS 10105 & SANS 10108.
2. FLAMMABLE LIQUID PERMIT TO BE OBTAINED PRIOR TO FILLING OF TANK WITH FLAMMABLE LIQUIDS.
3. FLAMMABLE LIQUID NOT TO BE OUTSIDE CLASS II – CLASS IIIA FLASHPOINTS.

NOTES:

1. FOUNDATIONS HAVE BEEN DESIGNED FOR A SAFE BEARING PRESSURE OF 100KPA COMPACTED TO 95% AASHTO. THE ENGINEER SHALL BE ADVISED IF THERE ARE POOR SOILS IN THE AREA. UNLESS TYPE OF SOIL IS KNOWN, OR CAN BE VERIFIED WITH THE LOCAL AUTHORITIES, SOIL TESTS SHOULD BE UNDERTAKEN.
2. CONCRETE MIX TO BE IN PROPORTION BY VOLUME 1 PART CEMENT: 2 PARTS SAND: 4 PARTS 19MM QUARRY STONE. THE WATER : CEMENT RATIO SHALL NOT EXCEED 0.55%, CORRESPONDING TO 23.8 LITRES OF WATER TO EACH POCKET CEMENT (50KG).
3. BUND WALLS TO BE INTERNALLY PLASTERED.
4. OVERT OF ALL PIPES TO BE MIN. 400mm BELOW TOP OF SUB-BASE.
5. TRENCHES TO BE BACK-FILLED TO 98% MOD. AASHTO.

NOTE:

BUND VOLUME 52.8m³
TANK VOLUME 46.0m³

	DATE	REVISIONS
E		
D		
C		
B		
A		

APPROVAL	DATE

ENGEN

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PROJECT

ENGEN PETROLEUM LIMITED

TITLE

PROPOSED 46m³ ABOVE-GROUND TANK

SCALE	DATE	DRAWN	REVISED
AS SHOWN	13/02/2007	V.TJUMA	
CHECKED		APPROVED	

DRAWING No.

STD _AG Tanks_005