

Doors and Windows

Name	D01 - Grade R Classroom Door
View from Side Opposite to Opening Side	<p>1 800 900 900 348 2 380 2032 glazed fanlight power floated finish</p>
Size (mm)	1 800x2 380
Position	Exterior
Type	Powder coated aluminium door with glazed panels as indicated. All as per AAMSA specifications. 44mm sectional shopfront sections all round, equal to Wispeco type 44. Stiles to be 85mm to suit door hardware, with 150mm bottom rail.
Frame	Powder coated aluminium door frame with matching fanlight, installed strictly as per amnuf. details. Door to have full framing all round with fanlight set in framing members.
Frame Finish	Powder coated finish to Arch approval.
Glazing	PFG 6.38mm laminated safety glass
Door furniture	Refer Ironmongery Schedules
Notes	All dimensions and levels are to be verified on site prior to commencing manufacturing of frames and door.
Quantity	3

P0	01.12.16	revised to client comment			
Nº	DATE	REVISION DESCRIPTION	Nº	DATE	REVISION DESCRIPTION
Client	IDT and DOE PORTFOLIO SCHOOLS PROGRAM		Drawn	Checked	
Project	NEW ECDC TO KWAMATAMBO SPS EMIS: 200 500 373		ML	DC	
Drawing Name	Floor Plan - Ablutions		Status	Drawing Scale	
			WD	1:50	
			Dwg No	Revision	
			E1344-AR-801	P0	



Osmond Lange Architects and Planners (Pty) Ltd East London
 Postal: Private Bag X3, Tecoma, 5214
 Address: Pilot Mill House, The Quarry
 Selborne, East London
 T: (043) 721-0033
 F: (043) 721-0038
 E: olael@o-l.co.za

Doors and Windows	
Name	D02 - Soup Kitchen Door
View from Side Opposite to Opening Side	<p>813</p> <p>2380</p> <p>348</p> <p>2032</p> <p>85</p> <p>glazed fanlight</p> <p>108x44mm top and mid rails</p> <p>220x44mm top and mid rails</p> <p>power floated finish</p> <p>bottom of door frame</p>
Size (mm)	813x2 445
Position	Exterior
Type	40x813x2032mm equal to TDM BB door. HD full external grade timber door complete with 1 year guarantee. Code: 82106. Allowance to be made at all door openings for door frame to be set down from power floated floor finish.
Frame	Purpose made galv. steel door frame manufactured from 1.6mm mild steel with double rebate to suit 220mm thick walls. Frame complete with 4No 12mm hoop iron straps to build into brickwork.
Frame Finish	Galvanised finish to be treated 1x coat Primer before installation. 2x coats water based high wuality paint, with min 7 year guarantee, to manuf. details. Allow for deep colour tint.
Glazing	PFG 6.38mm laminated safety glass
Door furniture	Refer Ironmongery Schedules
Notes	Door frame installation: frame to be braced 3x ie, brace at bottom of frame, middle and top. Reveals need protection during construction. Mortar filling between back of frame and brickwork to be filled as work progresses.
Quantity	1

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Client IDT and DOE PORTFOLIO SCHOOLS PROGRAM			Drawn ML		Checked DC
Project NEW ECDC TO KWAMATAMBO SPS EMIS: 200 500 373			Status WD		Drawing Scale 1:50
Drawing Name Floor Plan - Ablutions			Dwg No E1344-AR-802		Revision P0



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Doors and Windows

Name	W01
View from Side Opposite to Opening Side	<p>1 200</p> <p>2 380</p> <p>1445</p> <p>360</p> <p>1085</p> <p>935</p> <p>935</p> <p>glazed fanlight</p> <p>power floated finish</p>
Size (mm)	1 200x1 440
Position	Exterior
Type	All as per AAMSA standards and specifications. Note: Opening section top hung, opening out.
Frame	Similar or equal approved to Casement 30.5, powder coated aluminium frame
Frame Finish	Powder coated finishe to Architects approval.
Glazing	PFG 6.38mm laminated float glass
Door furniture	Supplied with stainless steel heavy duty friction stay, restrictor stay and window handle.
Notes	Burglar proofing as per schedule. Silicone sealant all round window frame, colour to Architects approval. All dimensions and levels are to be verified on site prior to commencing manufacturing of frames.
Quantity	15

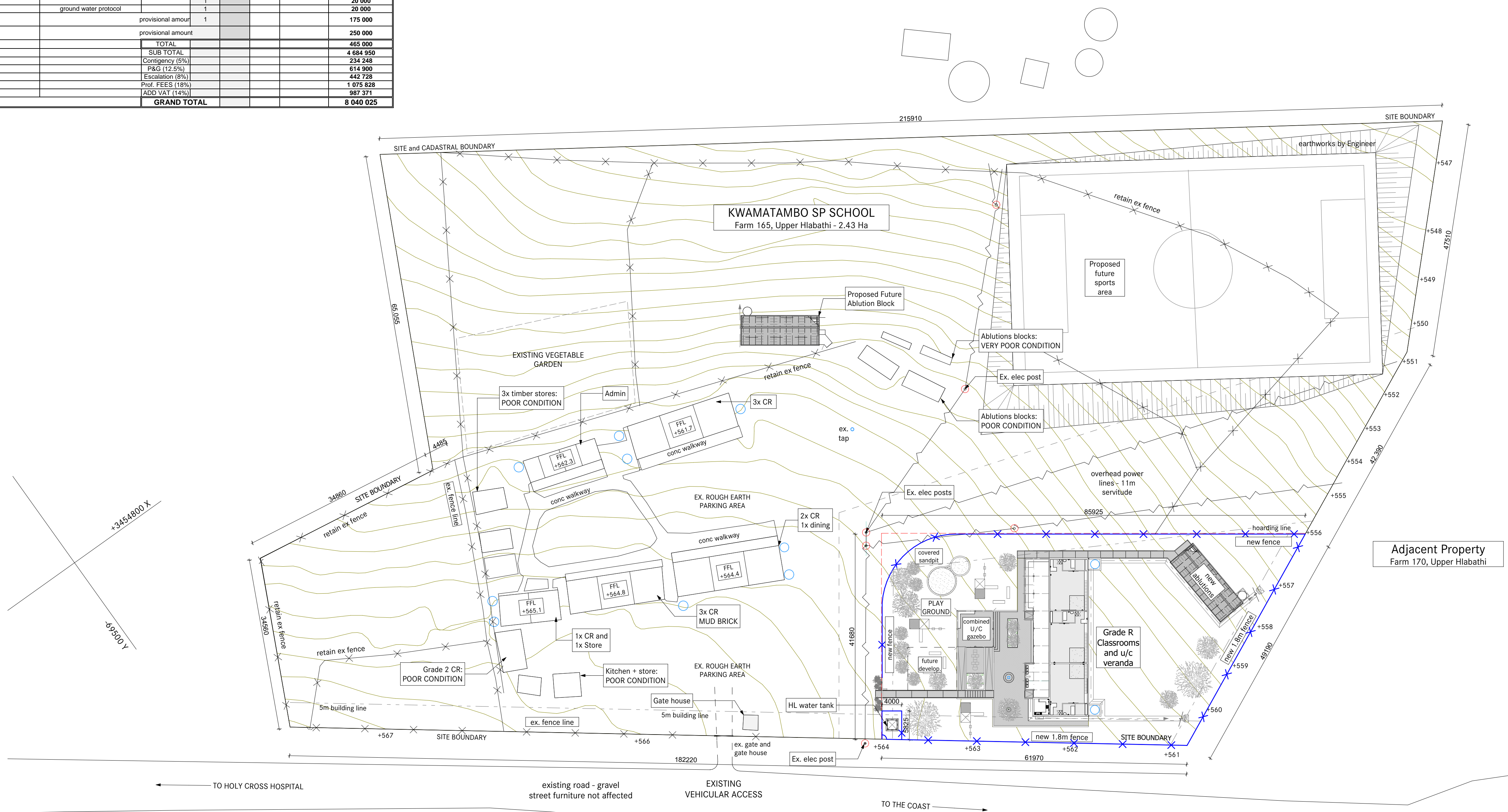
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Client IDT and DOE PORTFOLIO SCHOOLS PROGRAM			Drawn ML		Checked DC
Project NEW ECDC TO KWAMATAMBO SPS EMIS: 200 500 373			Status WD		Drawing Scale 1:50
Drawing Name Floor Plan - Ablutions			Dwg No E1344-AR-809		Revision P0



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 Postal: Private Bag X3, Tecoma, 5214
 Address: Pilot Mill House, The Quarry
 Selborne, East London
 T: (043) 721-0033
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DATE: 09/07/2016		PROJECT SCOPE				EARLY CHILDHOOD CENTRE			
EMIS NO	200 500 373		ERF NO		LUSKISKI				
ENROLMENT			STAFF						
PRESCHOOL	0								
GRADE R	80								
GR 1	96								
GR2	93								
GR3	96								
GR4	79								
GR 5	64								
GR 6	70								
GR 7	46								
GR8	0								
GR 9	0								
TOTAL ENROLMENT	624			MALE	FEMALE				
		TOTAL STAFF	0	0					
		exist		norms					
			Sq M	Sq M	NO.				
		Norm m2 as per regulations relating to minimum	Planned Area size (m2)	Number of Units/Facilities	Total number of m2	Cost per planned area size m2	Total Cost		
MINIMUM EDUCATION AREAS									
Demolish/relocate existing temporary structures		CHECK ON SITE							
Temporary classrooms/construction		CHECK ON SITE							
GRADE R CLASSROOM:		TOTAL	3	INTERNAL DIM	82	3	246	8 000	1 968 000
Including teaching area			3	INTERNAL DIM	60	3			
including space for teachers= 1 per class			3	INTERNAL DIM	5	3			
including sick bay X 1 per classroom			3	INTERNAL DIM	5	3			
including store room = 1 per classroom			3	INTERNAL DIM	5	3			
Kitchen (warming) 1 kitchen per cluster of classrooms			1	INTERNAL DIM	7	1			
Verandah			1		45	3	135	3 000	405 000
EXTERNAL WALL AREA			11%	EXT	3	27	7 500	202 950	
Plus fenced play area with equipment		play equipment			1	ITEM	175 000		
				TOTAL			408	18 500	2 750 950
		wc	whb						
UNISEX TOILETS		9	6	VIP	NEW		15 000	495 000	
DISABLED/STAFF		2		VIP	NEW		55 000	110 000	
TOTAL		11	6	TOTAL				605 000	
Fencing		around Grade R as required		1,8 weld mesh	500	1	500	900	450 000
water tanks		water tank at toilets as required		500lit	1	1	4 000	4 000	
elevated water tank		48 hr storage as SANS		5000lit	1	1	10 000	10 000	
				TOTAL				464 000	
BULK SERVICES									
Electrical connection		Existing grid- check upgrade						200 000	
Water Connection		existing municipal		check upgrade				100 000	
Sewer Connection		None- check if municipal possible		check upgrade				0	
Stormwater connect		CHECK UPGRADE						100 000	
				TOTAL				400 000	
Land		Land surveying				1		20 000	
		Geotech		ground water protocol		1		20 000	
		Landscaping		provisional amount		1		175 000	
bulk earthworks				provisional amount				250 000	
				TOTAL				465 000	
				SUB TOTAL				4 684 950	
				Consigency (5%)				234 248	
				P&G (12.5%)				614 900	
				Escalation (8%)				442 728	
				Prof. FEES (18%)				1 075 628	
				ADD VAT (14%)				987 371	
				GRAND TOTAL				8 040 025	

KWAMATAMBO SP SCHOOL - School Enrolment									
	Gr R	Gr 1	Gr 2	Gr 3	Gr 4	Gr 5	Gr 6	Gr 7	Total
Male	30	51	48	50	44	35	40	21	289
Female	48	45	41	45	35	30	29	20	323
Total	78	96	89	95	89	65	69	41	612
No. of classes	1	2	2	2	1	1	1	1	11



Site Development Plan

1:500

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3. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL AND PROVINCIAL REGULATIONS.
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3. SPRINKLER LAYOUT AND FIRE FIGHTING PLAN AS PER APPOINTED (CERTIFIED) MECHANICAL ENGINEER'S DETAILS AND SPECIFICATIONS. PROVISION OF FIRE FIGHTING EQUIPMENT TABLED BELOW.
4. ALL TIMBER USED TO BE TREATED AGAINST TERMITE AND WOOD BORER ATTACK, AND AGAINST FUGAL DECAY AS PER SANS 10005.

Approvals:

Signature
Dept. of Education

Signature
IDT

P1	24.11.16	revised to client comment	
P0	07.11.16	for measurement	
	22.08.16	SDP APPROVED - with revisions noted	
N°	DATE	REVISION DESCRIPTION	BY



**Osmond Lange Architects and
Planners (Pty) Ltd East London**
Postal: Private Bag X3, Tecoma, 5214
Address: Pilot Mill House, The Quarry
Selborne, East London
T: (043) 721-0033
F: (043) 721-0038
E: olae@o-l.co.za

Client:



Province of the
EASTERN CAPE
EDUCATION

Implimenting Agent:



Project:

IDT and DOE Portfolio Schools Program - 2016/17 FY

NEW EARLY CHILDHOOD DEVELOPMENT CENTRE TO

KWAMATAME
SP SCHOOL

Ngquza Hill, Lusikisiki, Eastern Cape

EMIS: 200 500 373

Drawing Name

Site Development Plan

Drawing Status

FOR WORKING DRAWING APPROVALS

Modified by

Date _____

Checked by

Date _____

Drawing Scale

as shown

Drawing Number

Revis

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GENERAL NOTE

99 98 97 96 95 94 93 92 91 90 89 88 87 86 85 84 83 82 81 80 79 78 77 76 75 74 73 72 71 70 69 68 67 66 65 64 63 62 61 60 59 58 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

- GENERAL NOTES

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D0	01.12.16	for measurement and info	
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DATE	REVISION DESCRIPTION	BY
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Osmond Lange Architects and

[illegible]

Complimenting Agent:



Project:

ID1 and DOE Portfolio Schools Program - 2016/17 FY

NEW EARLY CHILDHOOD DEVELOPMENT CENTRE TO

Site Plan - Grade R's

Drawing Status

<p> 1. Identify the main idea of the passage. 2. Identify the supporting details. 3. Identify the author's purpose. 4. Identify the author's tone. 5. Identify the author's bias. 6. Identify the author's point of view. 7. Identify the author's audience. 8. Identify the author's style. 9. Identify the author's structure. 10. Identify the author's language. </p>	<p> 1. Identify the main idea of the passage. 2. Identify the supporting details. 3. Identify the author's purpose. 4. Identify the author's tone. 5. Identify the author's bias. 6. Identify the author's point of view. 7. Identify the author's audience. 8. Identify the author's style. 9. Identify the author's structure. 10. Identify the author's language. </p>
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11

Checked by	Date
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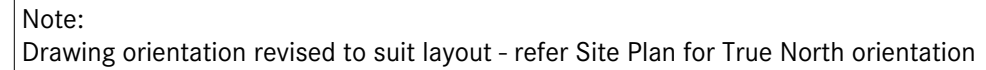
Assault on Coast

as shown

Drawing Number Revision

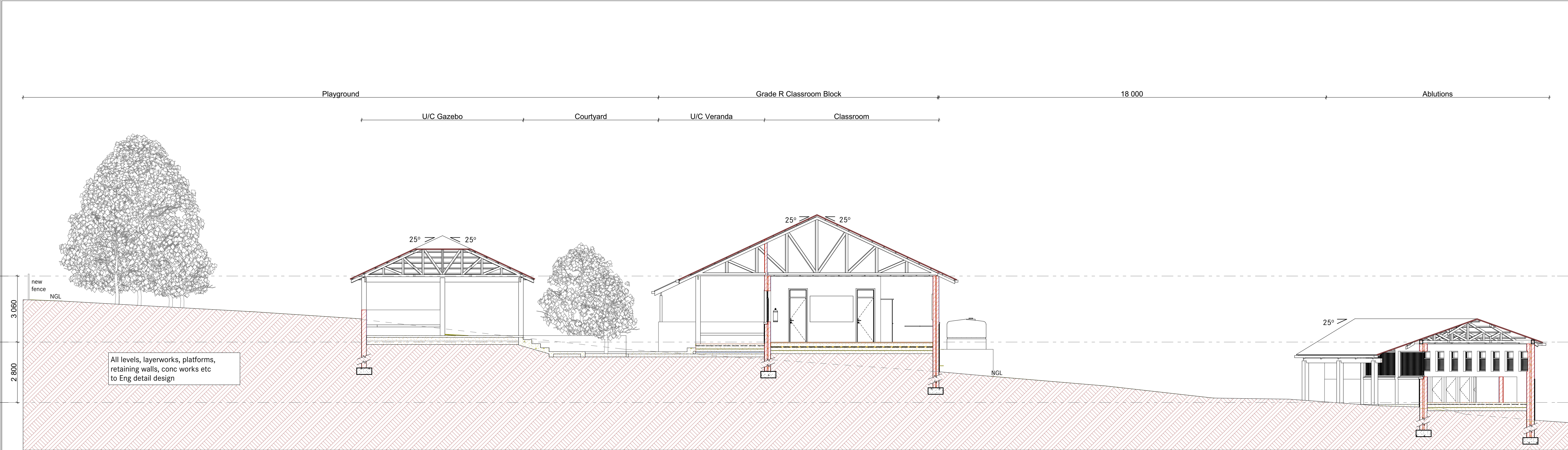
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Refer Civil Eng drawings for all levels, siteworks, platforms, retaining walls etc.



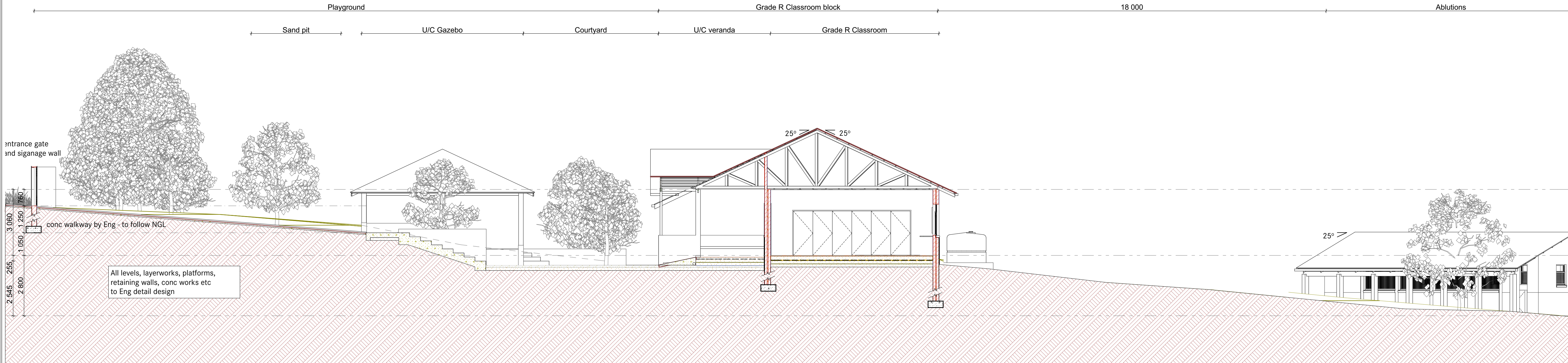
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Drawing Name	
Floor Plans - Grade R	
Drawing Status	
FOR WORKING DRAWING APPROVALS	
Modified by	Date
ML	
Checked by	Date
OC	
Drawing Scale	
as shown	
Drawing Number	Revision
E1344 AR-200	PO



Site Section 1

1:100



Site Section 2

1:100

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Approvals:

Signature Date
Dept. of Education

Signature Date
IDT

PO	24.11.16	New drawing: revised to client comment	
Nº	DATE	REVISION DESCRIPTION	BY

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Postal: Private Bag X3, Tecoma, 5214
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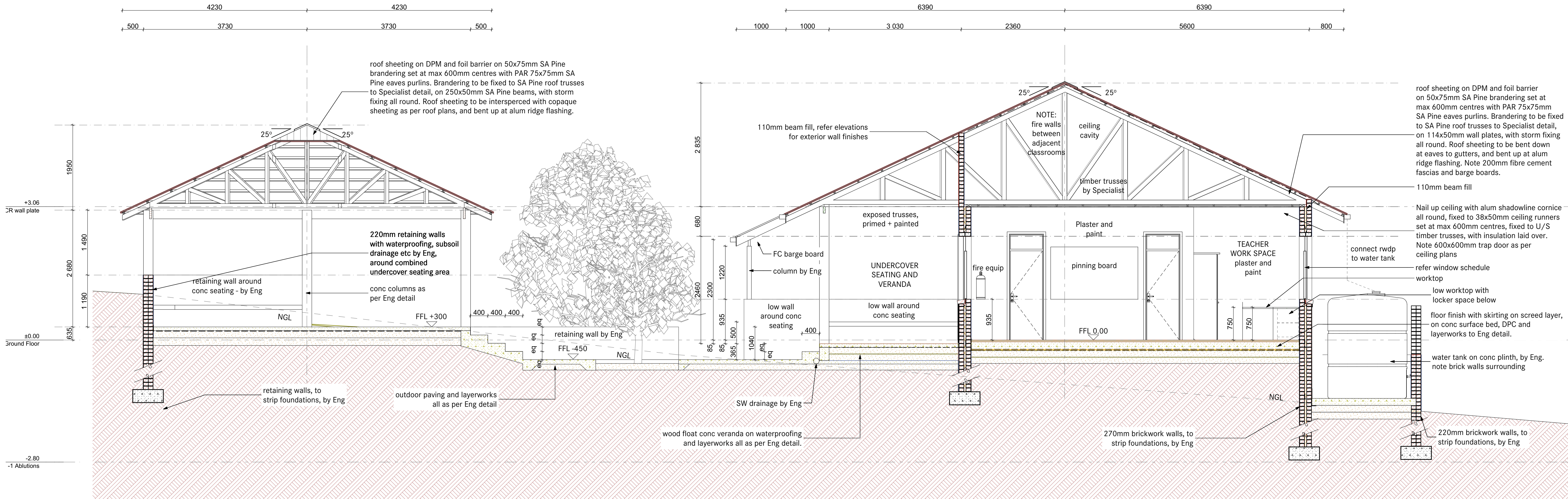
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Project:

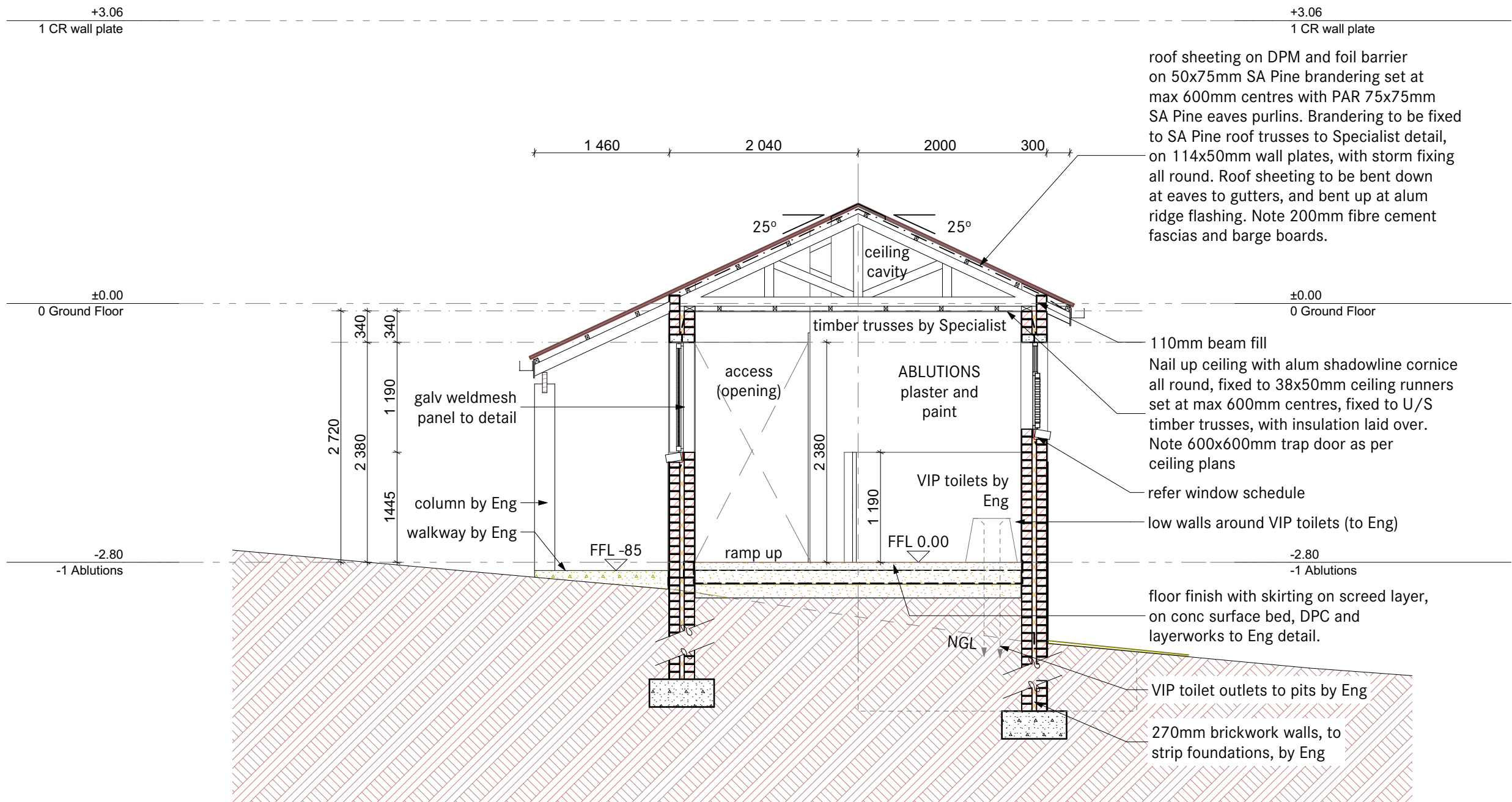
IDT and DOE Portfolio Schools Program - 2016/17 FY
NEW EARLY CHILDHOOD DEVELOPMENT CENTRE TO
**KWAMATAMBO
SP SCHOOL**
Ngquza Hill, Lusikisiki, Eastern Cape
EMIS: 200 500 373

Drawing Name	Sections
Drawing Status	FOR WORKING DRAWING APPROVALS
Modified by ML	Date
Checked by DC	Date
Drawing Scale	as shown
Drawing Number E1344_AR-300	Revision PO



Section - Grade R Classroom and U/C seating

1:50



Section - Ablutions

1:50

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Dept. of Education

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Signature
IDT

Date

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P0	07.11.16	for measurement	
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(043) 721-0033
T: (043) 721-0033
F: (043) 721-0038
E: olae@i.co.za

Client:

Province of the
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Implementing Agent:

Independent Development Trust

Project:
IDT and DOE Portfolio Schools Program - 2016/17 FY
NEW EARLY CHILDHOOD DEVELOPMENT CENTRE TO
**KWAMATAMBO
SP SCHOOL**
Ngauza Hill, Lusikisiki, Eastern Cape
EMIS: 200 500 373

Drawing Name
Sections

Drawing Status
FOR WORKING DRAWING APPROVALS

Modified by
ML

Date

Checked by
DC

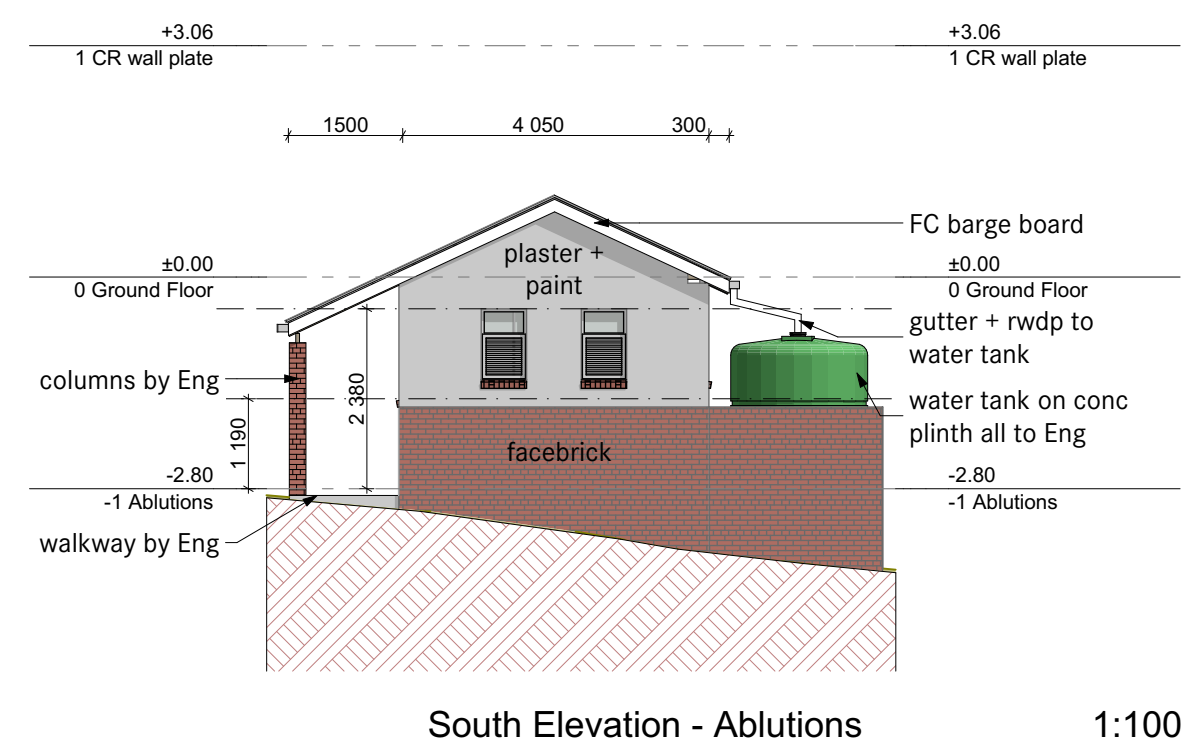
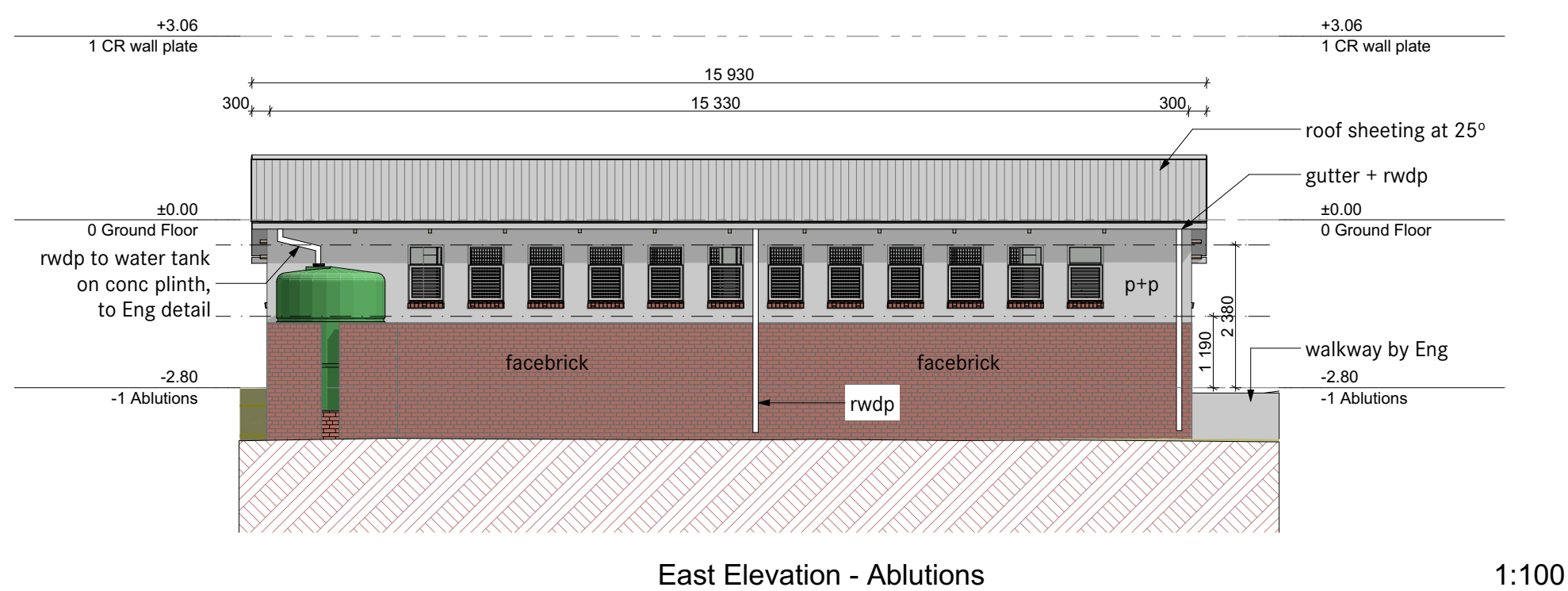
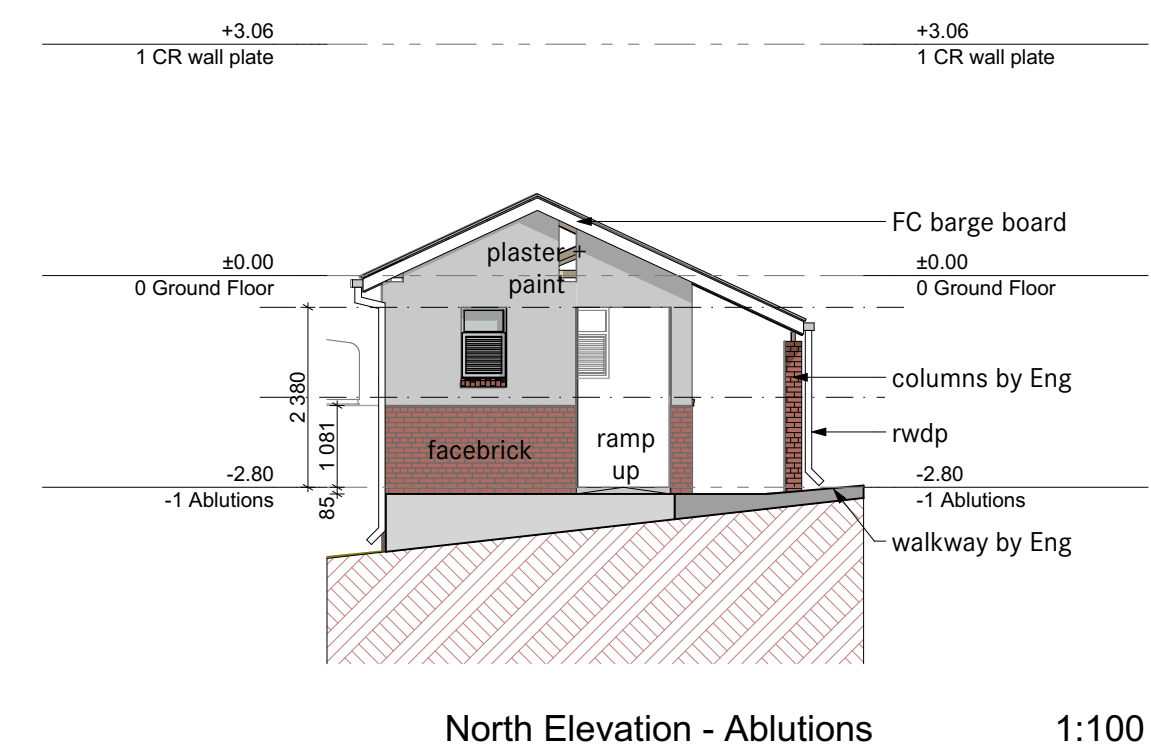
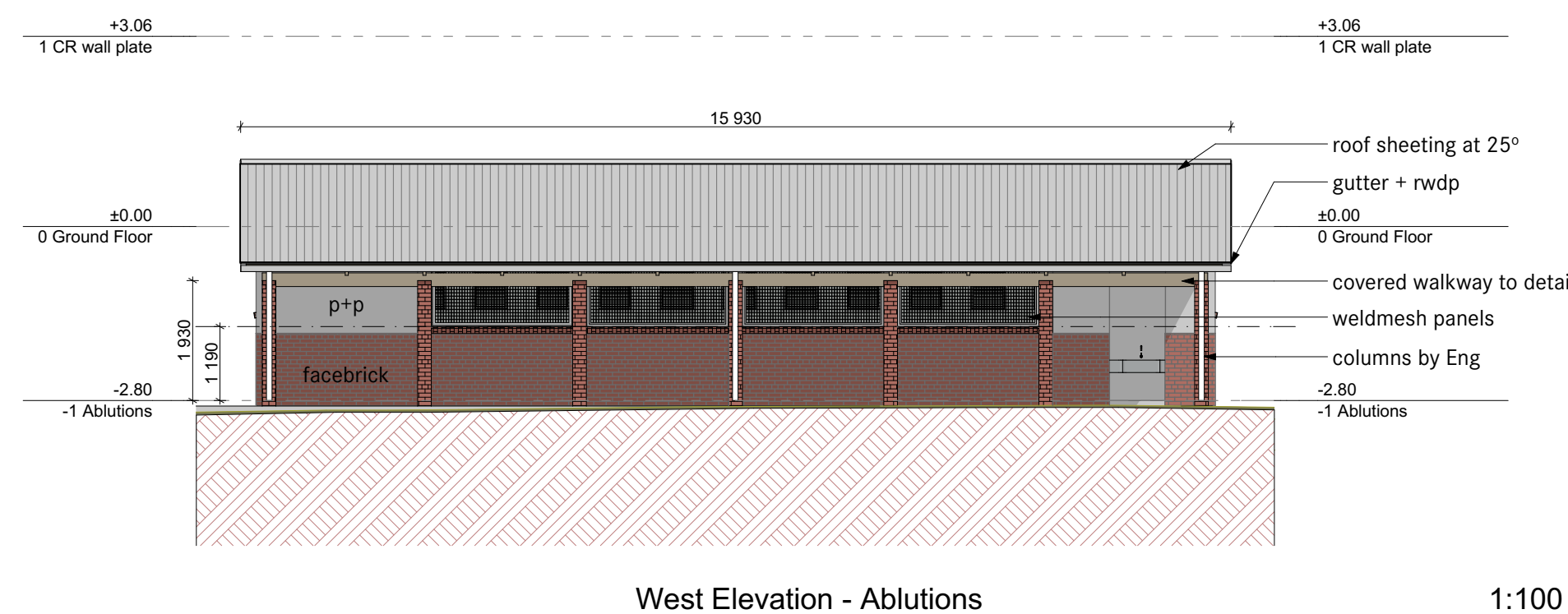
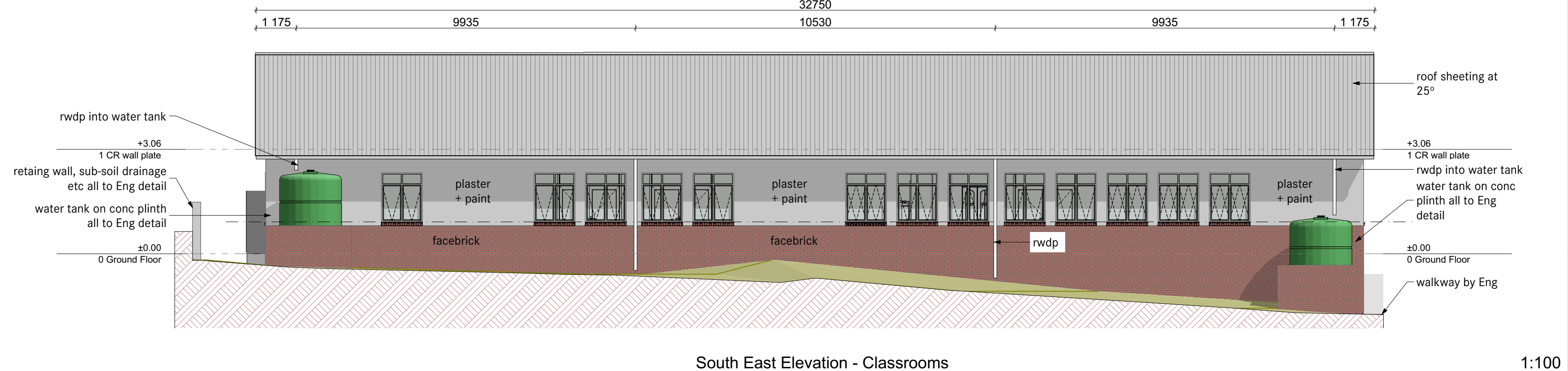
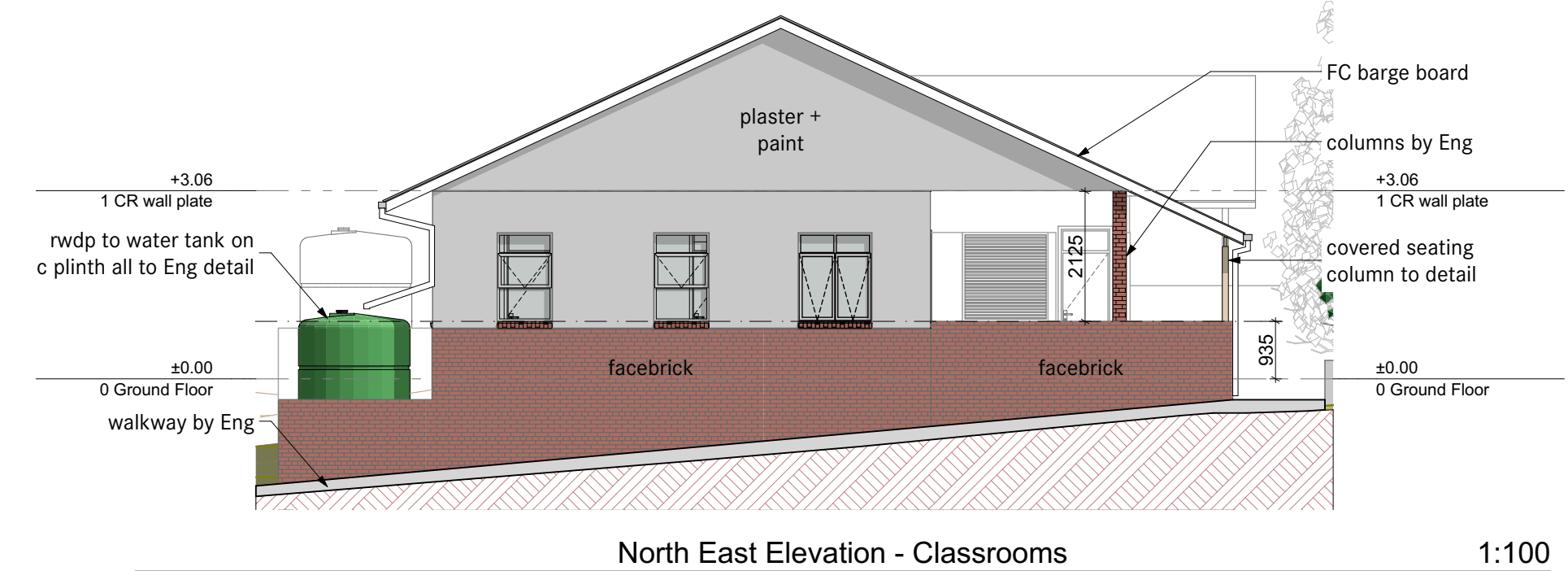
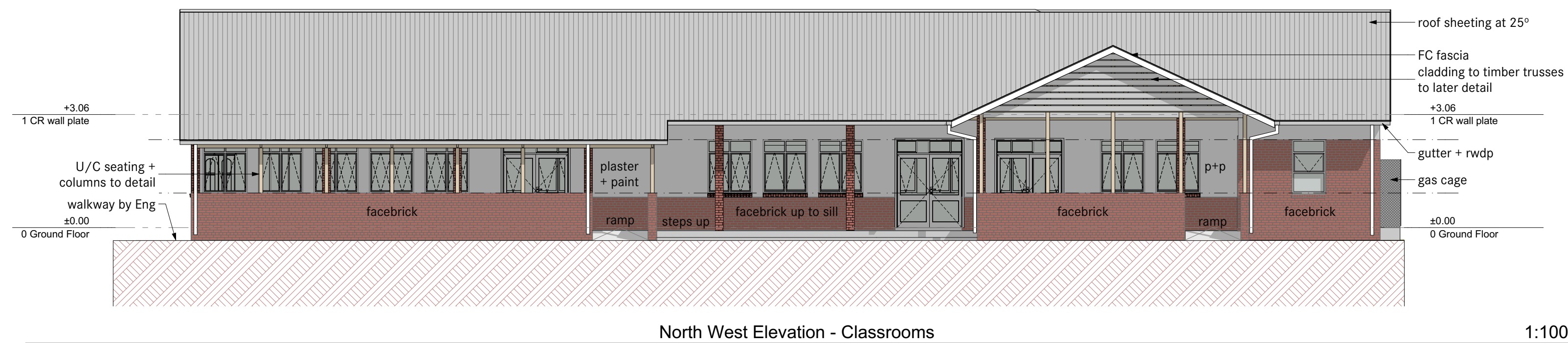
Date

Drawing Scale
as shown

Drawing Number
E1344_AR-301

Revision

P1



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GENERAL NOTE

. CONSULTANT / STRUCTURAL NOTES

- ALL STRUCTURAL, ELECTRICAL, CIVIL AND LANDSCAPING QUERIES ARE TO BE REFERRED TO THE RELEVANT CONSULTANTS DRAWINGS, SPECIFICATIONS AND DETAILS
- ALL PLUMBING QUERIES ARE TO BE REFERRED TO THE RELEVANT SPECIALIST SANITARY DRAWINGS, SPECIFICATIONS AND DETAILS
- ALL CONCRETE, COLUMNS AND STRUCTURAL QUERIES ARE TO BE REFERRED TO PR. STRUCTURAL ENGINEER'S DRAWINGS, SPECIFICATIONS AND DETAILS
- ALL EXTERNAL / INTERNAL WALLS, REPAIRING BRACING / REPAIRS ARE TO BE REFERRED TO PR. ACCORDANCE WITH PR. STRUCTURAL ENGINEER'S DRAWINGS, SPECIFICATIONS AND DETAILS.
- ALL REPAIRS AND REPAIRS ARE TO BE REFERRED TO, TO BE REFERRED TO CONSULTANTS DRAWINGS, SPECIFICATIONS AND DETAILS.
- ALL DESIGN AND CONSTRUCTION TO COMPLY WITH THE RELEVANT SANITARY REGULATIONS.
- ANY DISCREPANCY IN THE DRAWINGS, DIMENSIONS & SPECIFICATIONS TO BE BROUGHT TO THE ATTENTION OF THE CONSULTANT ARCHITECT PRIOR TO ANY WORK BEING PUT IN HAND.
- ONLY FIGURED DIMENSIONS TO BE FOLLOWED - SCALED DIMENSIONS OF DRAWINGS WILL NOT BE PERMITTED
- CONTRACTOR NOTES**
- THE CONTRACTOR SHALL RECONFIRM ALL SALIENT LEVELS WITH MUNICIPALITY PRIOR TO COMMENCEMENT OF WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CO-ORDINATION OF ALL SERVICES TO BE INSTALLED.
- THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL AUTHORITY REQUIREMENTS.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR MECHANICAL, ELECTRICAL AND PLUMBING SERVICES AND SPECIALISED ITEMS AND INCORPORATE THE DUCTS TO CONCEAL NECESSARY PIPES, CABLES AND CONDUITS, ETC.
- THE CONTRACTOR SHALL RESPECT PRIOR TO COMMENCEMENT OF WORK.
- THE CONTRACTOR SHALL SUBMIT THE SITE PRIOR TO ANY WORK BEING PUT IN HAND FOR INSPECTION.
- ALL ASPECTS OF THE WORKS, TO BE CARRIED OUT INCLUDING ANY DETERIORATING, IF REQUIRED, THE COSTS OF THE DETERIORATING.
- THE SUBMITTED PRIOR TO WORK BEING COMMENCED ON SITE.
- ANY DISCREPANCY IN THE DRAWINGS, DIMENSIONS AND SPECIFICATIONS TO BE BROUGHT TO THE ATTENTION OF THE CONSULTANT AND ARCHITECT PRIOR TO WORK BEING PUT IN HAND.
- ALL EQUIPMENT SHALL BE TO THE APPROVAL OF THE LOCAL AUTHORITIES AND COMPLY WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT.
- ALL DIMENSIONS AND LEVELS ARE TO BE VERIFIED ON SITE PRIOR TO COMMENCING, SETTING OUT, WORKSHOP DRAWINGS OR CONSTRUCTION

GENERAL NOTES

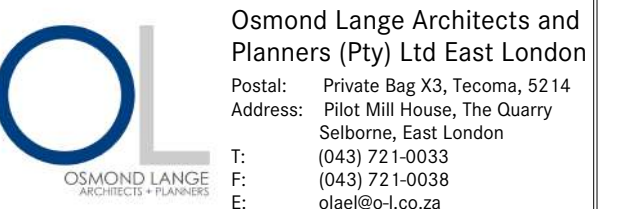
- ALL STRUCTURAL COMPONENTS TO STRUCTURAL ENGINEER'S DETAIL AND ARCHITECT'S APPROVAL.
ALL SEWER AND WASTE WATER POINTS TO CONNECT TO EXISTING SEWER LINES.
SPRINKLER LAYOUT AND FIRE FIGHTING PLAN AS PER APPOINTED (CERTIFIED) MECHANICAL ENGINEER'S DETAILS AND SPECIFICATIONS. PROVISION OF FIRE FIGHTING EQUIPMENT TABLED BELOW.
ALL TIMBER USED TO BE TREATED AGAINST TERMITE AND WOOD BORER ATTACK, AND AGAINST FUGAL DECAY AS PER SANS 10005.

Approvals:

Signature	Date
Dept. of Education	

Signature DT	Date
-----------------	------

P1	01.12.16	rev as per Client comment, for measurement	
P0	07.11.16	for measurement	
°	DATE	REVISION DESCRIPTION	BY



Client:



Complimenting Agent:



Project:

IDT and DOE Portfolio Schools Program - 2016/17 FY

NEW EARLY CHILDHOOD DEVELOPMENT CENTRE TO

KWAMATAMBO
SP SCHOOL

Ngquza Hill, Lusikisiki, Eastern Cape

EMIS: 200 500 373

Drawing Name	Elevations

Drawing Status

FOR WORKING DRAWING APPROVALS

Modified by	Date
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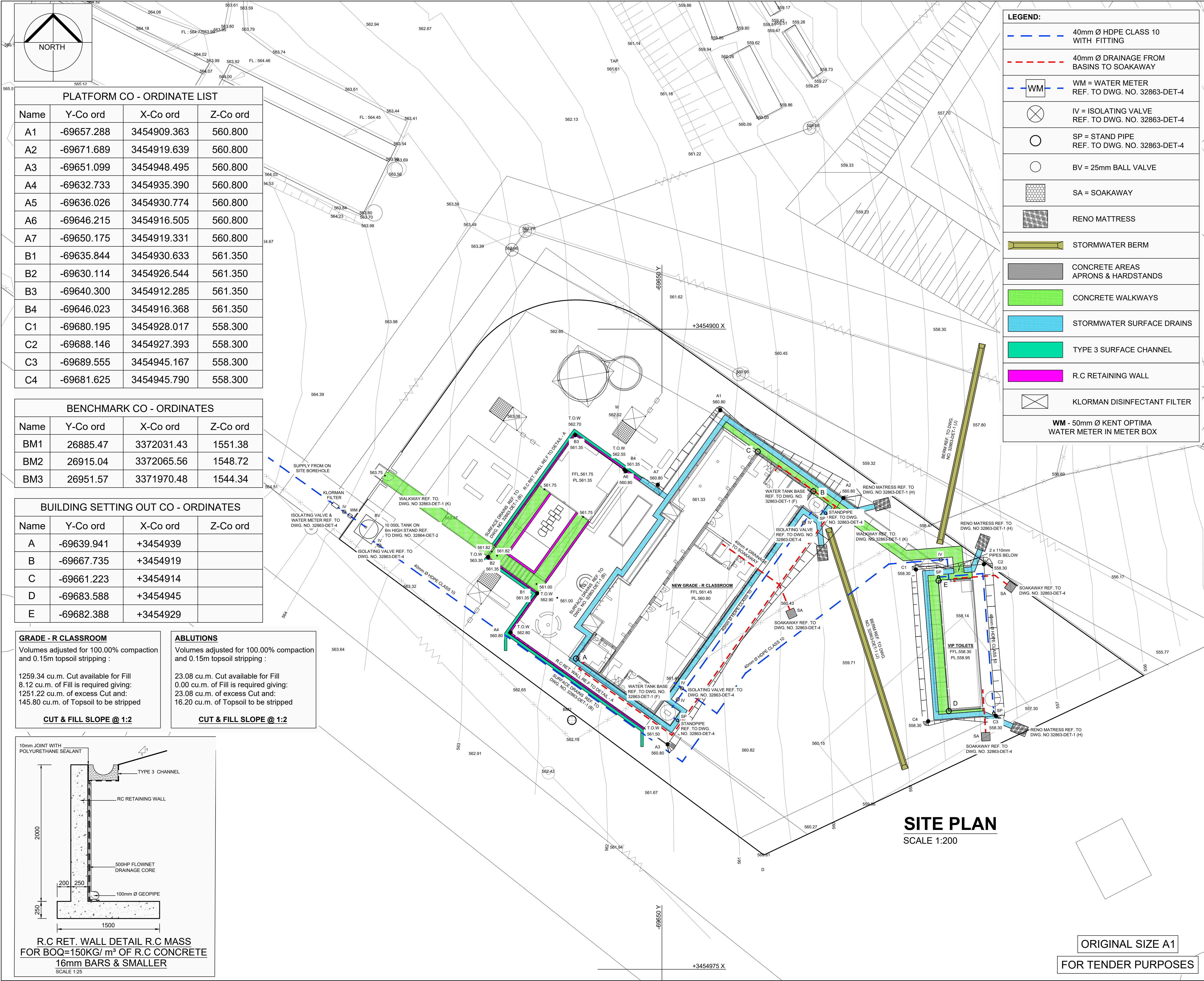
ML

Checked by	Date
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OC

Drawing Scale as shown

Drawing Number E1344 AR-400	Revision P1
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PLATFORM CO - ORDINATE LIST			
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A1	-69657.288	3454909.363	560.800
A2	-69671.689	3454919.639	560.800
A3	-69651.099	3454948.495	560.800
A4	-69632.733	3454935.390	560.800
A5	-69636.026	3454930.774	560.800
A6	-69646.215	3454916.505	560.800
A7	-69650.175	3454919.331	560.800
B1	-69635.844	3454930.633	561.350
B2	-69630.114	3454926.544	561.350
B3	-69640.300	3454912.285	561.350
B4	-69646.023	3454916.368	561.350
C1	-69680.195	3454928.017	558.300
C2	-69688.146	3454927.393	558.300
C3	-69689.555	3454945.167	558.300
C4	-69681.625	3454945.790	558.300

BENCHMARK CO - ORDINATES			
Name	Y-Co ord	X-Co ord	Z-Co ord
BM1	26885.47	3372031.43	1551.38
BM2	26915.04	3372065.56	1548.72
BM3	26951.57	3371970.48	1544.34

BUILDING SETTING OUT CO - ORDINATES			
Name	Y-Co ord	X-Co ord	Z-Co ord
A	-69639.941	+3454939	
B	-69667.735	+3454919	
C	-69661.223	+3454914	
D	-69683.588	+3454945	
E	-69682.388	+3454929	

GRADE - R CLASSROOM

Volumes adjusted for 100.00% compaction and 0.15m topsoil stripping :

1259.34 cu.m. Cut available for Fill
8.12 cu.m. of Fill is required giving:
1251.22 cu.m. of excess Cut and:
145.80 cu.m. of Topsoil to be stripped

CUT & FILL SLOPE @ 1:2

ABLUTIONS

Volumes adjusted for 100.00% compaction and 0.15m topsoil stripping :

23.08 cu.m. Cut available for Fill
0.00 cu.m. of Fill is required giving:
23.08 cu.m. of excess Cut and:
16.20 cu.m. of Topsoil to be stripped

CUT & FILL SLOPE @ 1:2

10mm JOINT WITH POLYURETHANE SEALANT

TYPE 3 CHANNEL

RC RETAINING WALL

500HP FLOWNET DRAINAGE CORE

100mm Ø GEOPIPE

R.C RET. WALL DETAIL R.C MASS FOR BOQ=150KG/ m³ OF R.C CONCRETE 16mm BARS & SMALLER

SCALE 1:25

LEGEND:

- 40mm Ø HDPE CLASS 10 WITH FITTING
- 40mm Ø DRAINAGE FROM BASINS TO SOAKAWAY
- WM = WATER METER REF. TO DWG. NO. 32863-DET-4
- IV = ISOLATING VALVE REF. TO DWG. NO. 32863-DET-4
- SP = STAND PIPE REF. TO DWG. NO. 32863-DET-4
- BV = 25mm BALL VALVE
- SA = SOAKAWAY
- RENO MATTRESS
- STORMWATER BERM
- CONCRETE AREAS APRONS & HARDSTANDS
- CONCRETE WALKWAYS
- STORMWATER SURFACE DRAINS
- TYPE 3 SURFACE CHANNEL
- R.C RETAINING WALL
- KLORMAN DISINFECTANT FILTER
- WM - 50mm Ø KENT OPTIMA WATER METER IN METER BOX

ALL DIMENSIONS AND LEVELS ARE TO BE VERIFIED ON SITE BY THE CONTRACTOR BEFORE COMMENCING ANY WORK.

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NOTES :

1	W.D.L	01/17	ARCHITECTS REVISIONS ADDED
0	W.D.L	11/16	FIRST ISSUE FOR TENDER

Rev	By	Date	Revision Details
1	W.D.L	01/17	ARCHITECTS REVISIONS ADDED
0	W.D.L	11/16	FIRST ISSUE FOR TENDER

CONSULTANT

DESIGNED	M. STEYN	NOVEMBER 2016
CHECKED	W.DE.LANGE	NOVEMBER 2016
DRAWN	J.JONKER	NOVEMBER 2016
CHECKED	W.DE.LANGE	NOVEMBER 2016

CLIENT

idtd
Independent development trust

CLIENT APPROVED	DATE
-----------------	------

CAMDEKON
ENGINEERS

P.O.BOX 11015
SOUTHERNWOOD
EAST LONDON
5213
5 ST GEORGE'S ROAD
SOUTHERNWOOD
EAST LONDON

TEL: (043) 743 7660/722 2738
FAX: (043) 743 7698
e-mail: el@camdekon.co.za

CONSULTANT SIGNATURE	DATE
----------------------	------

PROJECT TITLE

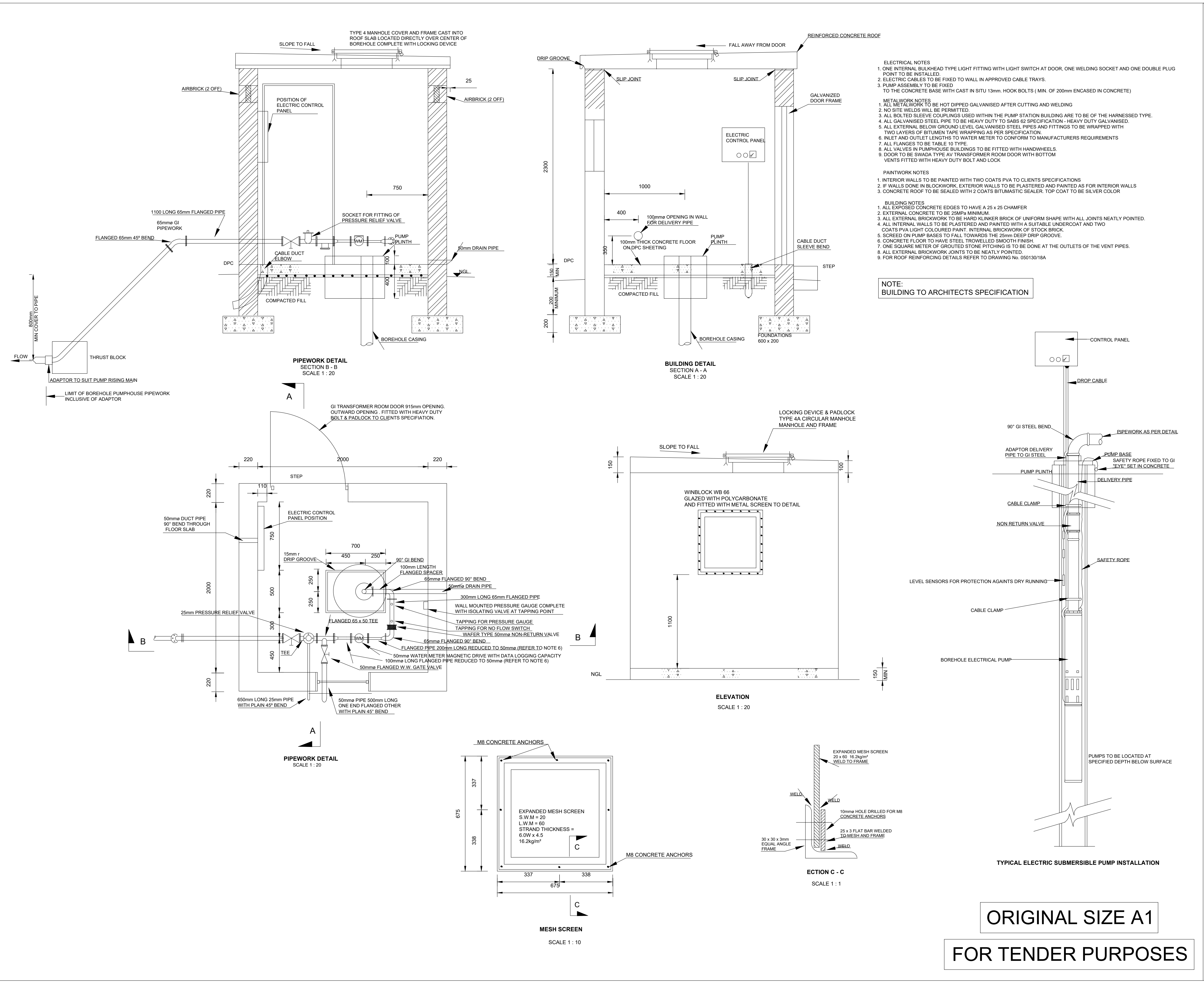
KWAMATHAMBO - JSS (32863)

DRAWING TITLE

SITE LAYOUT & CIVIL SERVICES PLAN

SCALE AS SHOWN	REV. 1
----------------	--------

DRAWING No. 32863-CIV-1



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NOTES :

0	W.D.L	11/16	FIRST ISSUE FOR TENDER
Rev	By	Date	Revision Details

CONSULTANT

DESIGNED	M. STEYN	NOVEMBER 2016
CHECKED	W.DE.LANGE	NOVEMBER 2016
DRAWN	J.JONKER	NOVEMBER 2016
CHECKED	W.DE.LANGE	NOVEMBER 2016


CLIENT



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DATE



CAMDEKON
ENGINEERS

CC 1987/025978/23
TEL: (043) 743 7660/722 2738
FAX: (043) 743 7698
e-mail: el@camdek.co.za

P.O.BOX 11015
SOUTHERNWOOD
EAST LONDON
5213
5 ST GEORGE'S ROAD
SOUTHERNWOOD
EAST LONDON

CONSULTANT SIGNATURE

DATE

PROJECT TITLE

KWAMATHAMBO - SPS
(32863)

DRAWING TITLE

SUBMERSIBLE
BOREHOLE PUMPSTATION

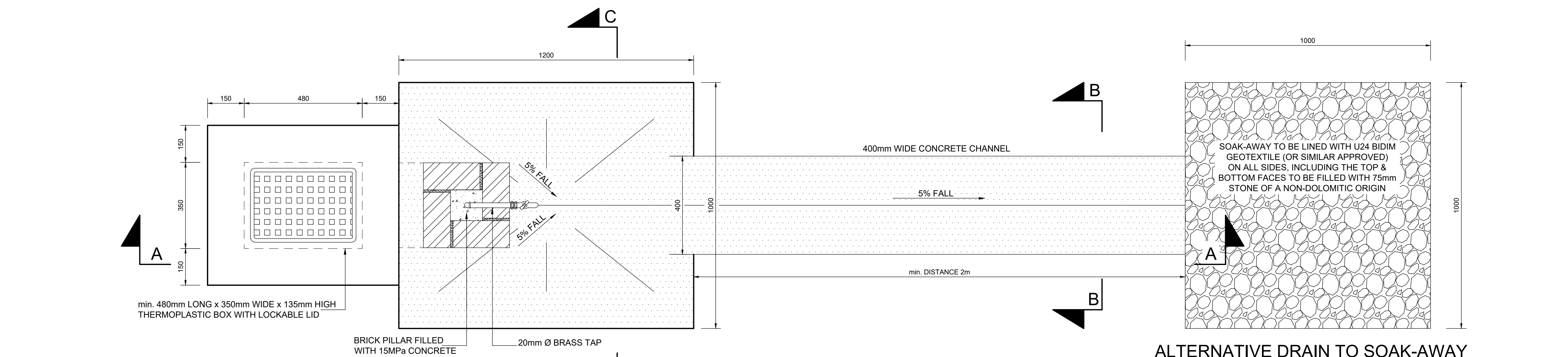
SCALE AS SHOWN

DRAWING No. 32863-DET-3

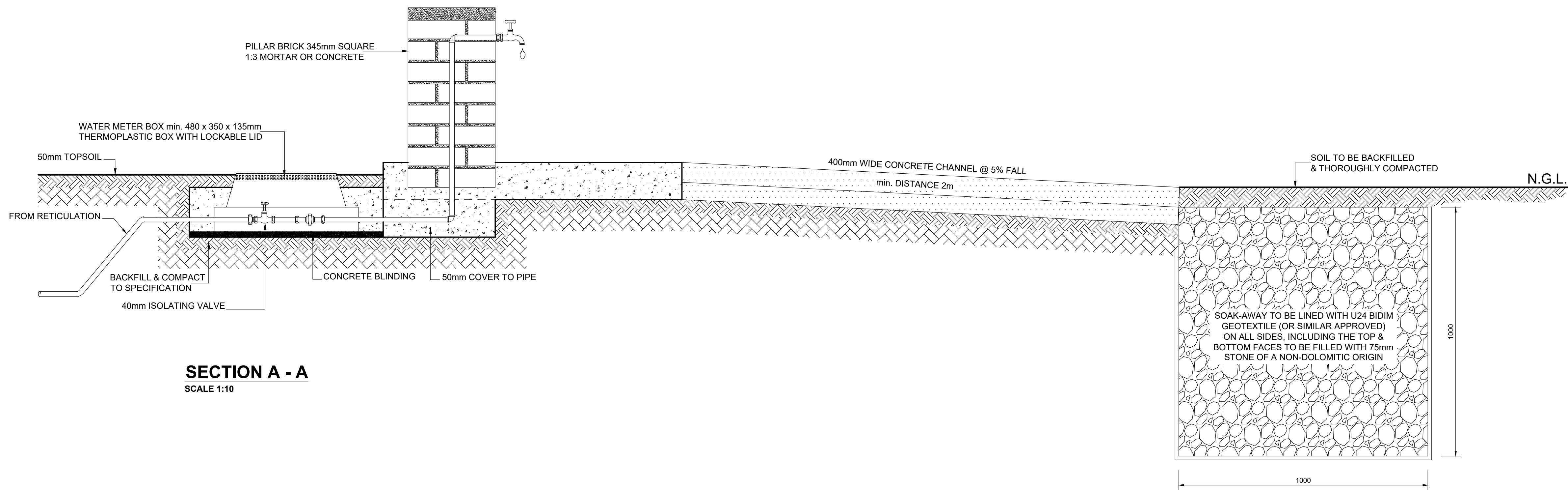
REV. 0

ORIGINAL SIZE A1

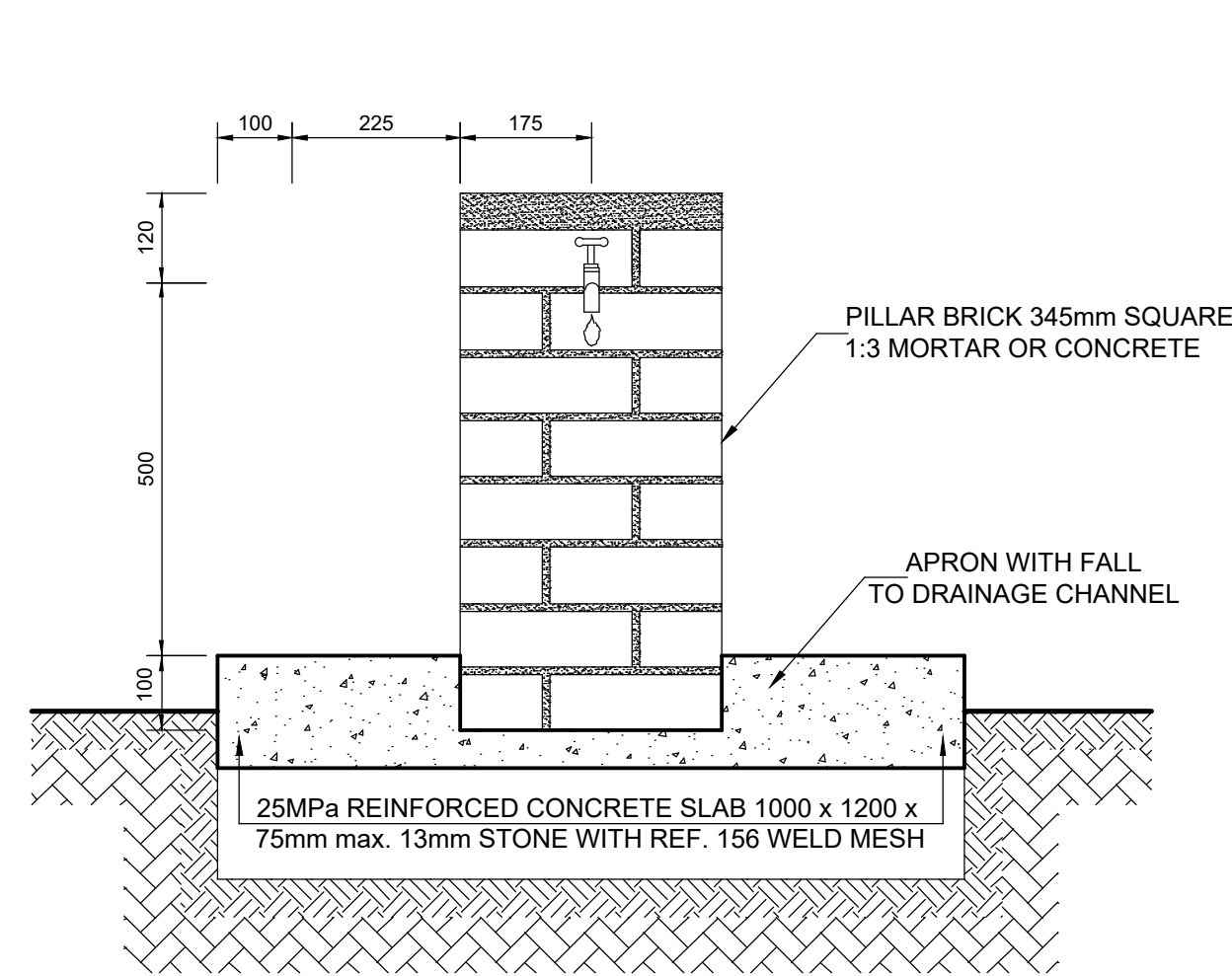
FOR TENDER PURPOSES



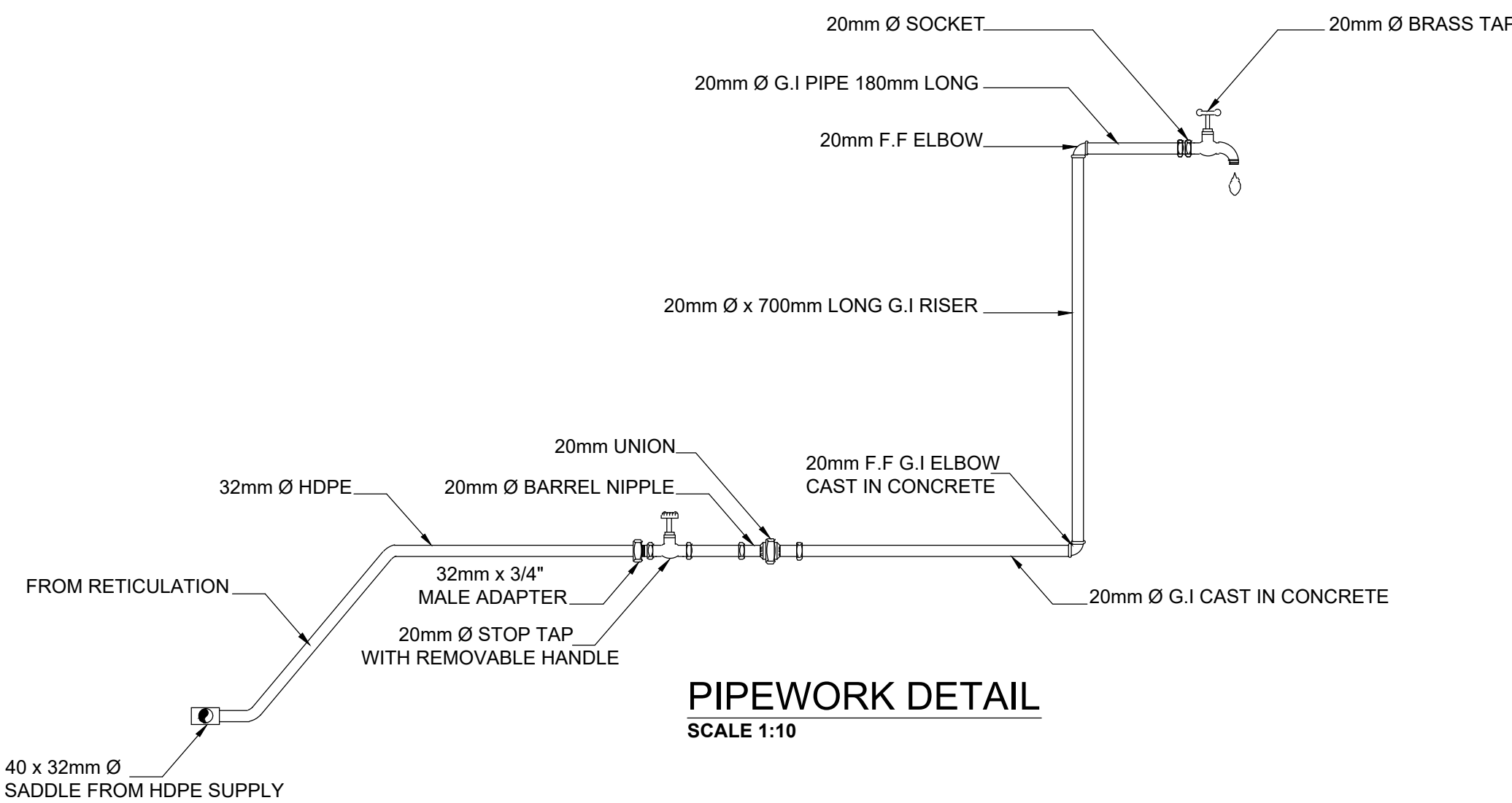
PLAN VIEW
SCALE 1:10



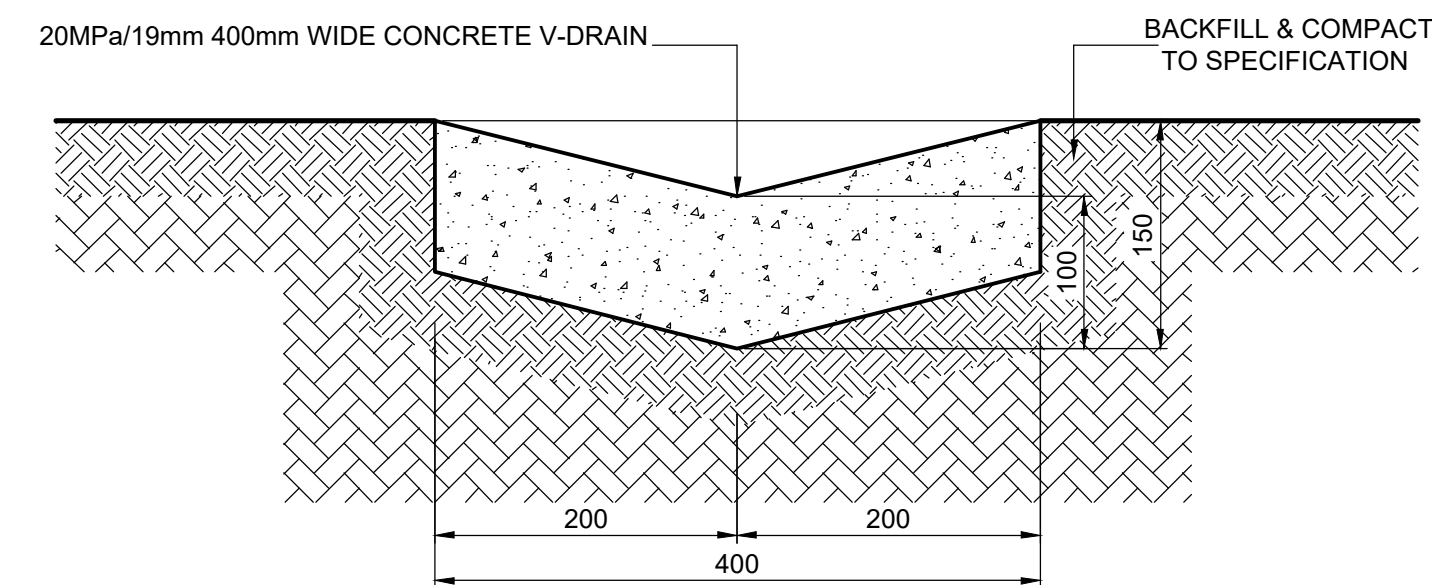
SECTION A - A
SCALE 1:10



SECTION C - C
SCALE 1:10



PIPEWORK DETAIL
SCALE 1:10



SECTION B - B CONCRETE CHANNEL
SCALE 1:5

ORIGINAL SIZE A1

FOR TENDER PURPOSES

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NOTES :

0 W.D.L 11/16 FIRST ISSUE FOR TENDER

Rev	By	Date	Revision Details
DESIGNED	M. STEYN	NOVEMBER 2016	
CHECKED	W.DE.LANGE	NOVEMBER 2016	
DRAWN	J.JONKER	NOVEMBER 2016	
CHECKED	W.DE.LANGE	NOVEMBER 2016	

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CAMDEKON ENGINEERS
CC 1987/025978/23
TEL: (043) 743 7660/722 2738
FAX: (043) 743 7698
e-mail: el@camdekon.co.za

CONSULTANT SIGNATURE DATE

PROJECT TITLE
KWAMATHAMBO - SPS (32863)

DRAWING TITLE
TYPICAL TAPSTAND DETAIL

SCALE AS SHOWN

DRAWING No. 32863-DET-4 REV. 0

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LEGEND:

0	J.J	11/16	First Issue For Tender
Rev	By	Date	Revision Details

CONSULTANT		
DESIGNED	W.DE.LANGE	NOVEMBER 2016
CHECKED	W.DE.LANGE	NOVEMBER 2016
DRAWN	J.A.JONKER	NOVEMBER 2016
CHECKED	W.DE.LANGE	NOVEMBER 2016

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CAMDEKON
ENGINEERS

P.O.BOX 11015
SOUTHERNWOOD
EAST LONDON
5213
5 ST GEORGE'S ROAD
SOUTHERNWOOD
EAST LONDON

TEL : (043) 743 7660/722 2738
FAX : (043) 743 7698
E-mail : el@camdekon.co.za

CONSULTANT SIGNATURE	DATE
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PROJECT TITLE

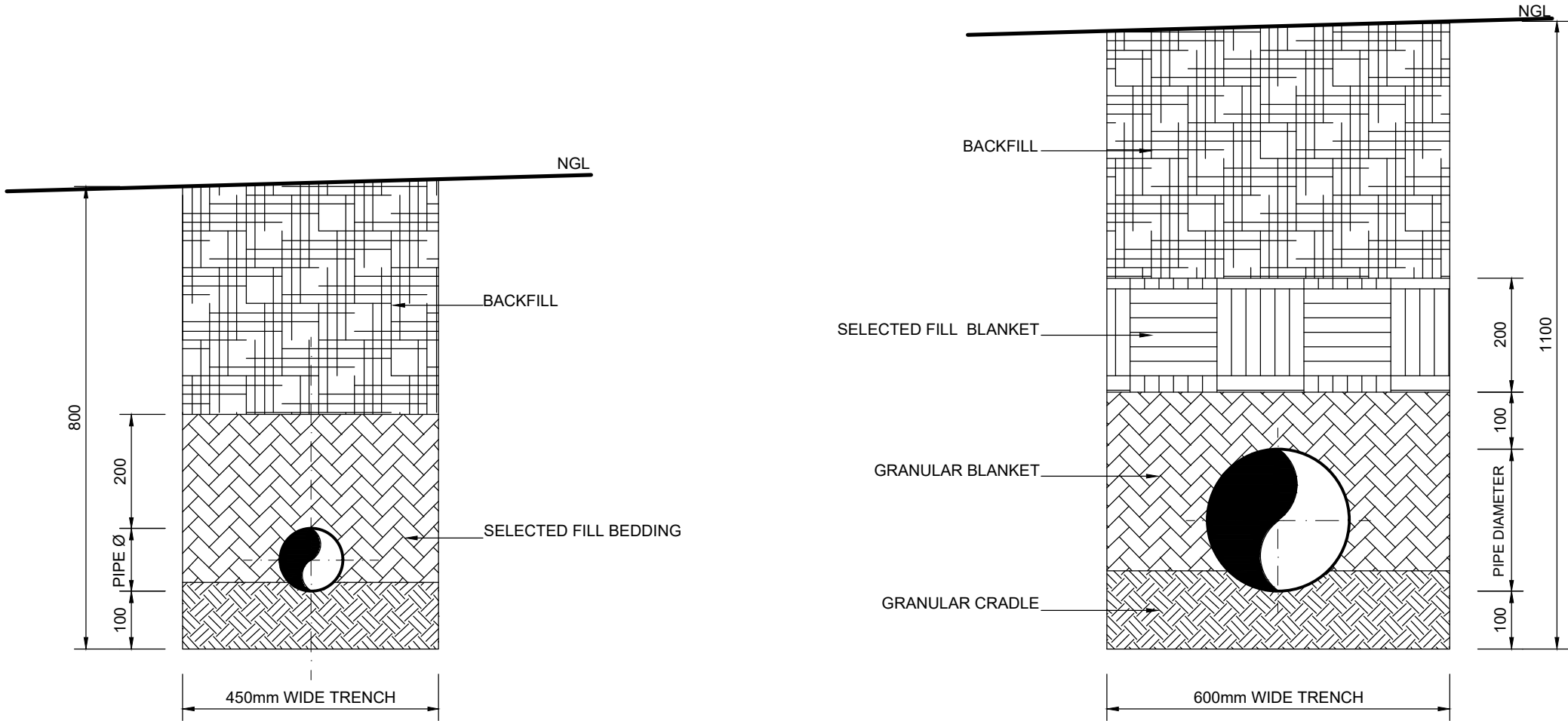
KWAMATHAMBO - SPS
(32863)

DRAWING TITLE

TYPICAL PIPE TRENCH DETAIL

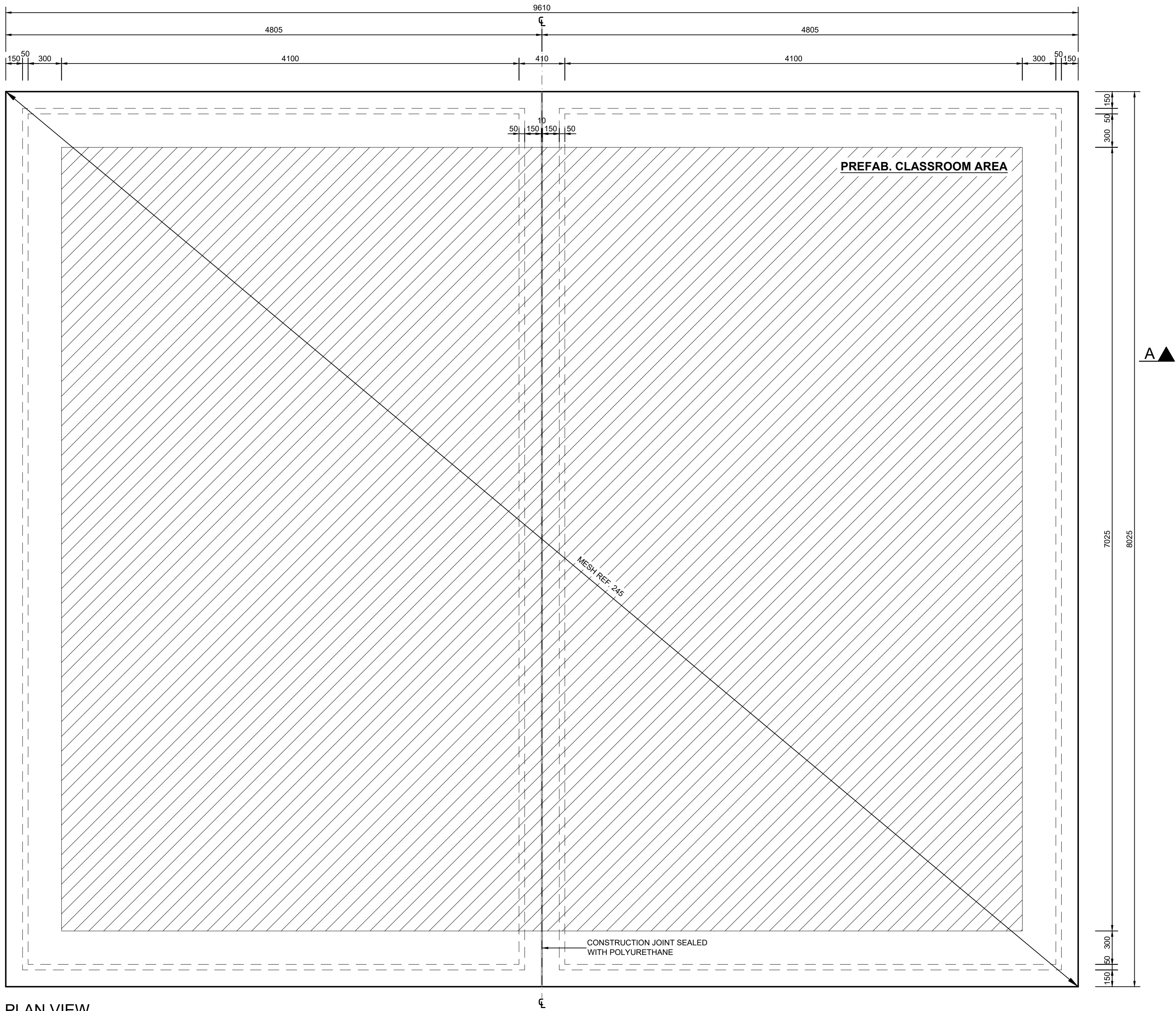
SCALE 1:10

DRAWING NO. 32683-DET-5	REV. 0
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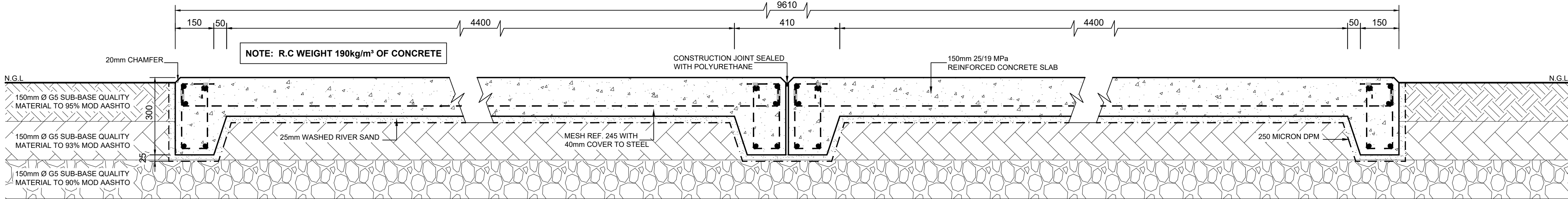


TYPICAL PIPE TRENCHES

ORIGINAL SIZE A3
FOR TENDER PURPOSES



PLAN VIEW
SCALE 1:25



SECTION A - A
SCALE 1:10

ORIGINAL SIZE A1

FOR TENDER PURPOSES

ALL DIMENSIONS AND LEVELS ARE TO BE VERIFIED ON SITE BY THE CONTRACTOR BEFORE COMMENCING ANY WORK.

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NOTES :

0	W.D.L	01/17	FIRST ISSUE FOR TENDER
Rev	By	Date	Revision Details
CONSULTANT			
DESIGNED	M. STEYN	JANUARY 2016	
CHECKED	W.DE.LANGE	JANUARY 2016	
DRAWN	J.JONKER	JANUARY 2016	
CHECKED	W.DE.LANGE	JANUARY 2016	



CLIENT APPROVED	DATE
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CAMDEKON
ENGINEERS
CC 1987/025978/23
TEL: (043) 743 7660/722 2738
FAX: (043) 743 7698
e-mail: el@camdekon.co.za

P.O.BOX 11015
SOUTHERNWOOD
EAST LONDON
5213
5 ST GEORGE'S ROAD
SOUTHERNWOOD
EAST LONDON

CONSULTANT SIGNATURE	DATE
----------------------	------

PROJECT TITLE
KWAMATHAMBO - SPS (32863)

DRAWING TITLE
CLASSROOM REINFORCED CONCRETE SLABS

SCALE AS SHOWN	REV. 0
DRAWING No. 32863-DET-6	

ALL DIMENSIONS AND LEVELS ARE TO BE VERIFIED ON SITE BY THE CONTRACTOR BEFORE COMMENCING ANY WORK.

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NOTES:

- GENERAL NOTES:
- THESE STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCIES SHALL BE REFERRED TO THE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH THE WORK.
 - ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE RELEVANT CURRENT SOUTH AFRICAN NATIONAL STANDARDS AND WITH THE SOUTH AFRICAN NATIONAL BUILDING REGULATIONS.
 - ALL SET OUT DIMENSIONS SHOWN ON THESE STRUCTURAL DRAWINGS SHALL BE VERIFIED BY THE CONTRACTOR ON SITE. DO NOT SCALE THESE STRUCTURAL DRAWINGS FOR DIMENSIONS.
 - THE METHOD OF CONSTRUCTION AND THE MAINTENANCE OF SAFETY DURING CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. IF ANY STRUCTURAL ELEMENT PRESENTS DIFFICULTY IN RESPECT OF CONSTRUCTABILITY OR SAFETY, THE MATTER SHALL BE REFERRED TO THE STRUCTURAL ENGINEER FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK.
 - DURING CONSTRUCTION, THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERLOADED. THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACING, SHORING AND PROPPING IN ORDER TO KEEP THE BUILDING WORKS AND DIMENSIONS STABLE AT ALL TIMES.
 - THE CONTRACTOR IS RESPONSIBLE FOR THE ADEQUACY OF ALL TEMPORARY WORKS INCLUDING SHORING, PROPPING AND BRACING AND WHERE NECESSARY TO ENSURE A STRUCTURAL ENGINEER TO DESIGN AND CERTIFY HIS TEMPORARY WORKS.
 - UNLESS AGREED OR SPECIFIED OTHERWISE, THE CONTRACTOR IS REQUIRED TO NOTIFY AND ALLOW TIME FOR THE STRUCTURAL ENGINEER TO INSPECT AT THE FOLLOWING POINTS:
 - * COMPLETED REINFORCEMENT, BRACING, SHORING, PROPPING AND BRACING.
 - * COMPLETED EMBEDMENTS PRIOR TO PLACING OF CONCRETE.
 - * COMPLETED ERECTED STRUCTURAL ELEMENTS PRIOR TO COVERING.
 - AT LEAST 48 HOURS NOTICE IS REQUIRED FOR INSPECTION. ALL WORK TO BE INSPECTED MUST BE COMPLETED PRIOR TO THE TIME OF INSPECTION.
 - SITE INSPECTIONS DO NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR THE COMPLETENESS AND CORRECTNESS OF HIS WORK.

FOUNDATION NOTES:

- FOOTINGS SHALL BE PLACED CENTRALLY UNDER WALLS AND COLUMNS UNLESS NOTED OTHERWISE.

- CONCRETE NOTES:
- CONCRETE QUALITY
 - 1.1 ALL CONCRETE SHALL COMPLY WITH SANS 1200G.
 - 1.2 COMPRESSIVE STRENGTH GRADES:
 - * UNREINFORCED STRIP FOOTINGS - 15/19
 - * REINFORCED STRIP FOOTINGS - 20/19
 - * RETAINING WALL FOOTINGS - 25/19
 - * BASES - 25/19
 - * SURFACE BED - 30/19
 - * COLUMNS - 30/19
 - * SLABS AND BEAMS - 25/19
 - CONCRETE PROFILES
 - 2.1 SIZES OF CONCRETE ELEMENTS DO NOT INCLUDE THICKNESS OF APPLIED FINISHES.
 - 2.2 NO HOLES, CHASES OR EMBEDMENT OF PIPES OTHER THAN SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN THE CONCRETE MEMBERS WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ENGINEER.
 - 2.3 CONSTRUCTION JOINTS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE TO THE WRITTEN APPROVAL OF THE ENGINEER.
 3. COMPACT ALL CONCRETE, INCLUDING FOOTINGS AND SURFACE SLABS, WITH MECHANICAL VIBRATORS.
 4. ALL CONCRETE TO BE CURED.
 5. SLIP JOINTS TO BE USED ON ALL LOAD-BEARING MASONRY WALLS BENEATH CONCRETE SLABS.
 6. BRICKS USED IN LOAD-BEARING CONSTRUCTION SHOULD HAVE A MINIMUM COMPRESSIVE STRENGTH OF 14MPa.
 7. MASONRY WALLS MUST NOT BE CONSTRUCTED ON SUSPENDED CONCRETE UNTIL ALL TEMPORARY SUPPORTS ARE REMOVED.

0 W.D.L. 11/16 FIRST ISSUE FOR TENDER

Rev	By	Date	Revision Details
CONSULTANT			
DESIGNED	M. STEYN	NOVEMBER 2016	
CHECKED	W.DE LANGE	NOVEMBER 2016	
DRAWN	J.JONKER	NOVEMBER 2016	
CHECKED	W.DE LANGE	NOVEMBER 2016	

CLIENT



CLIENT APPROVED DATE

CAMDEKON
ENGINEERS
P.O. BOX 11015
SOUTHERNWOOD
EAST LONDON
5213
5 ST GEORGE'S ROAD
SOUTHERNWOOD
EAST LONDON
TEL: (043) 743 7660/722 2738
FAX: (043) 743 7638
e-mail: ei@camdekon.co.za

CONSULTANT SIGNATURE DATE

PROJECT TITLE

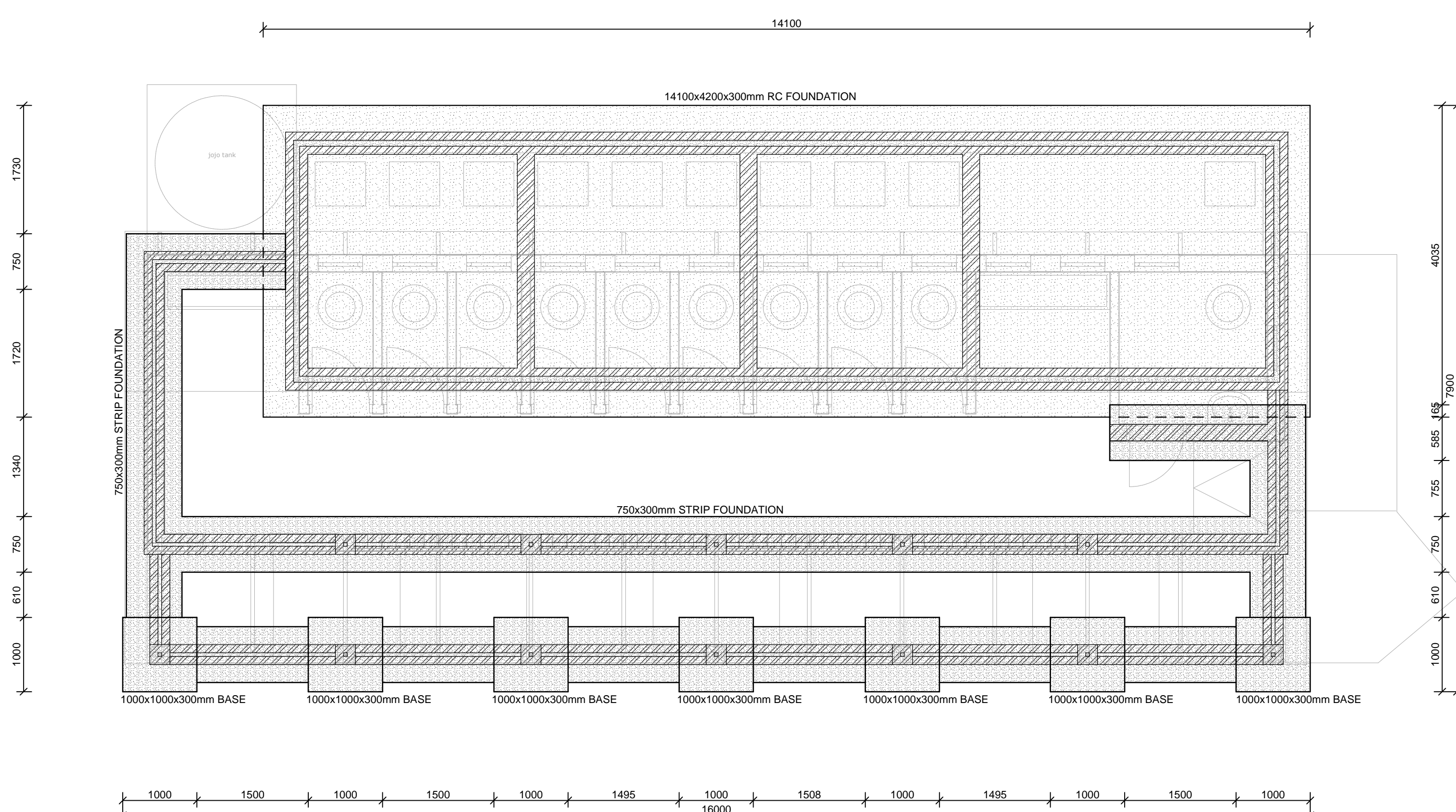
KWAMANTHAMBO
(32863)

DRAWING TITLE

ABLUTIONS LAYOUT AND REINFORCEMENT

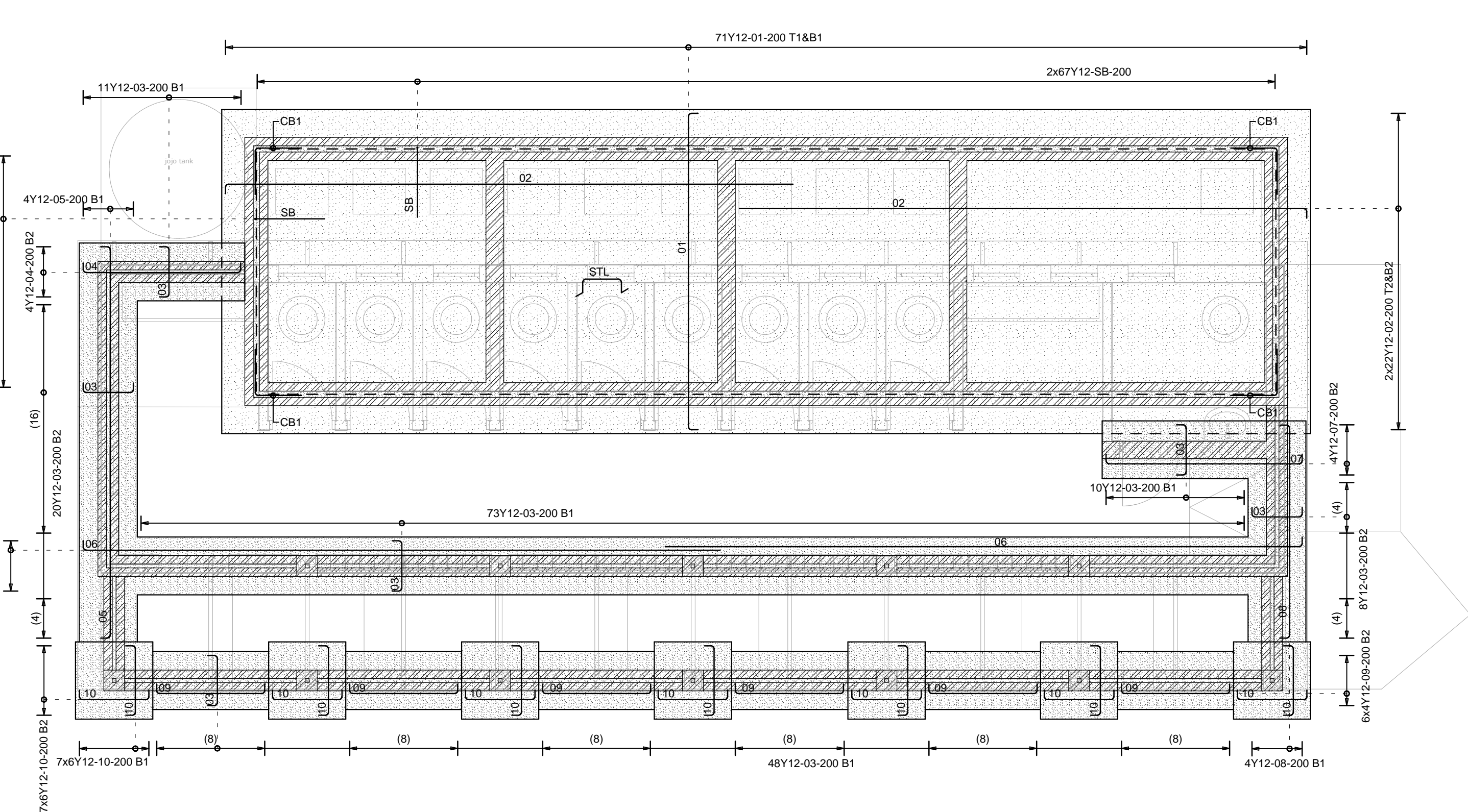
SCALE AS SHOWN

DRAWING No. 32863-STR-2 REV. 0



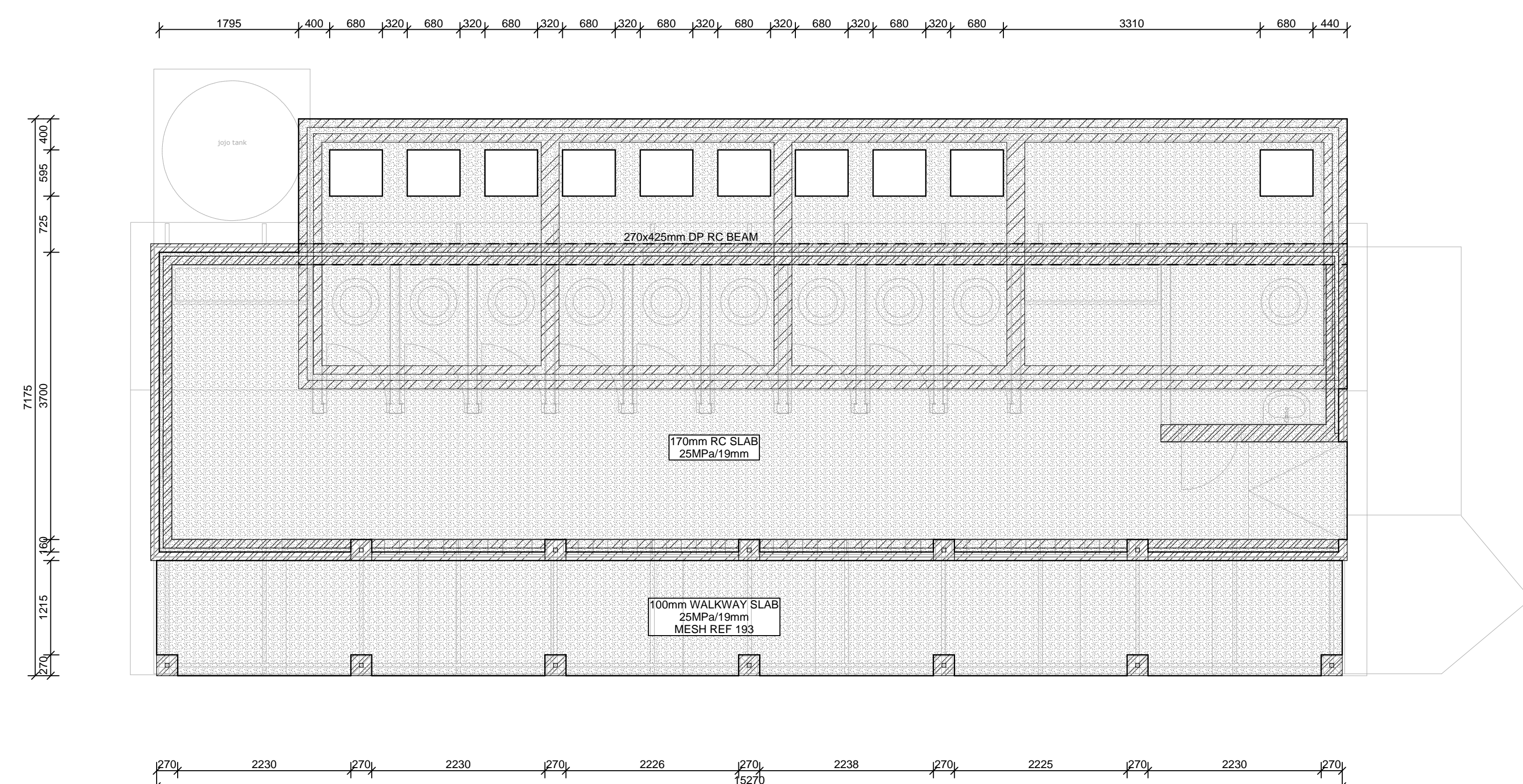
FOUNDATION LAYOUT

SCALE 1:50



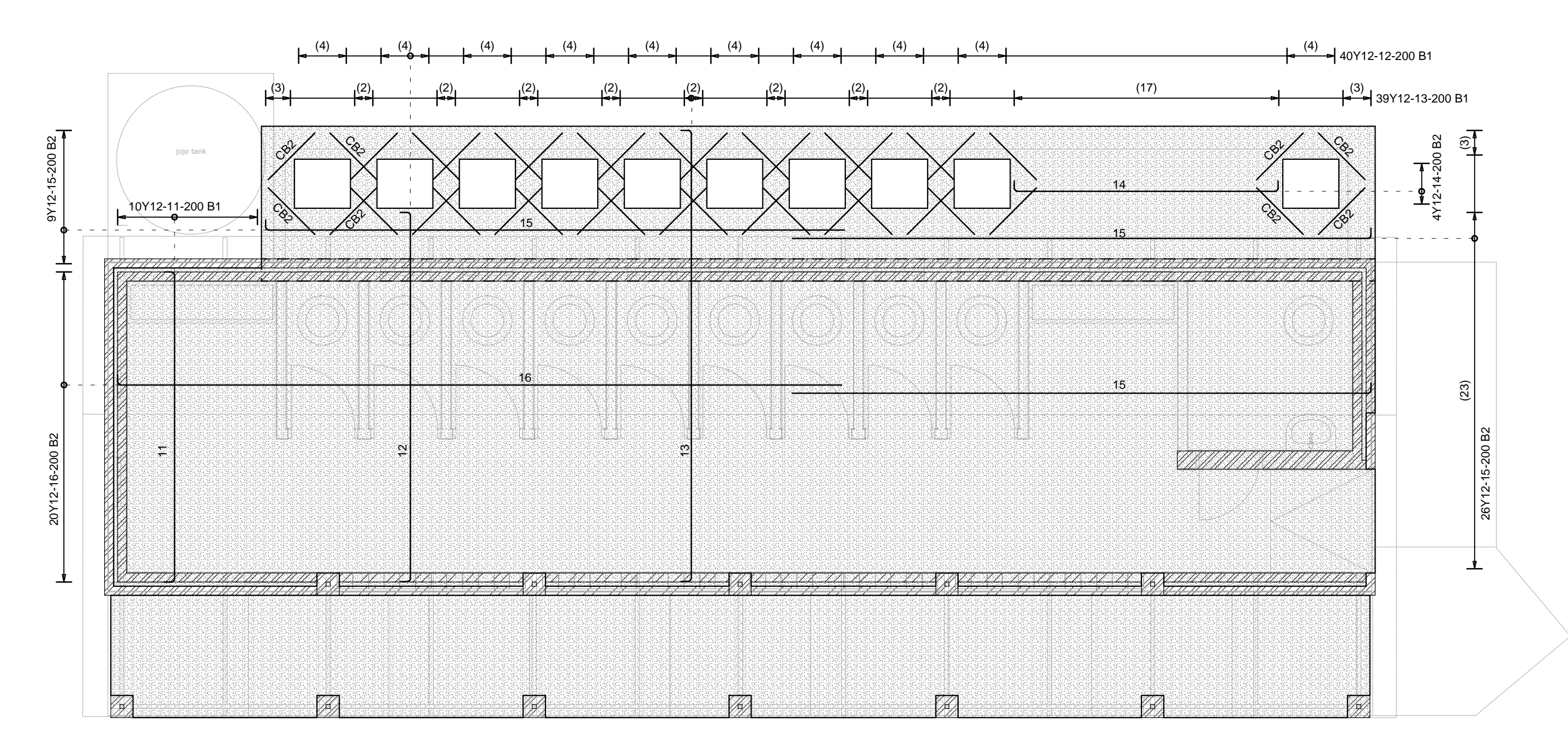
FOUNDATION REINFORCEMENT

SCALE 1:50



SLAB LAYOUT

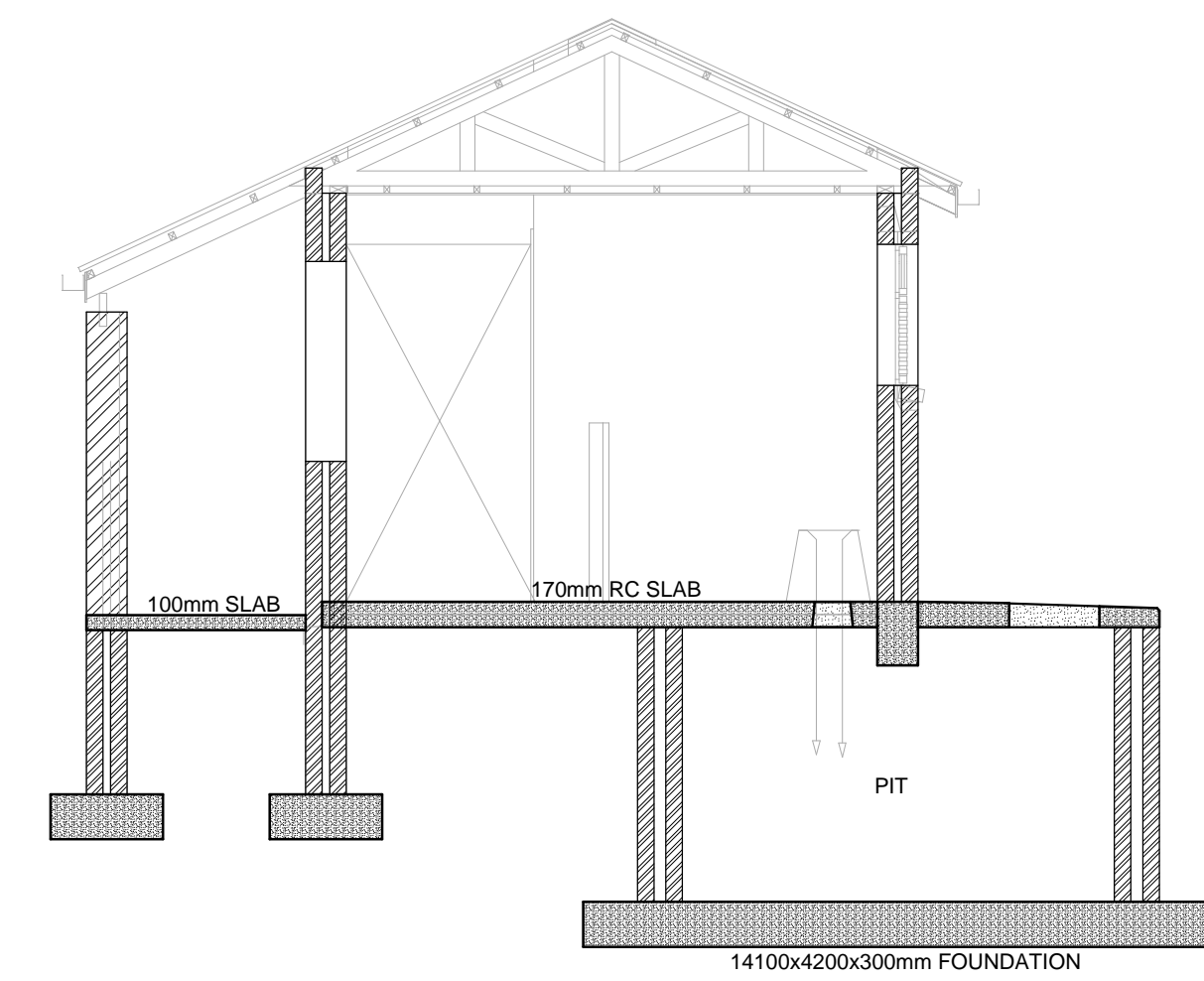
SCALE 1:50



SLAB REINFORCEMENT

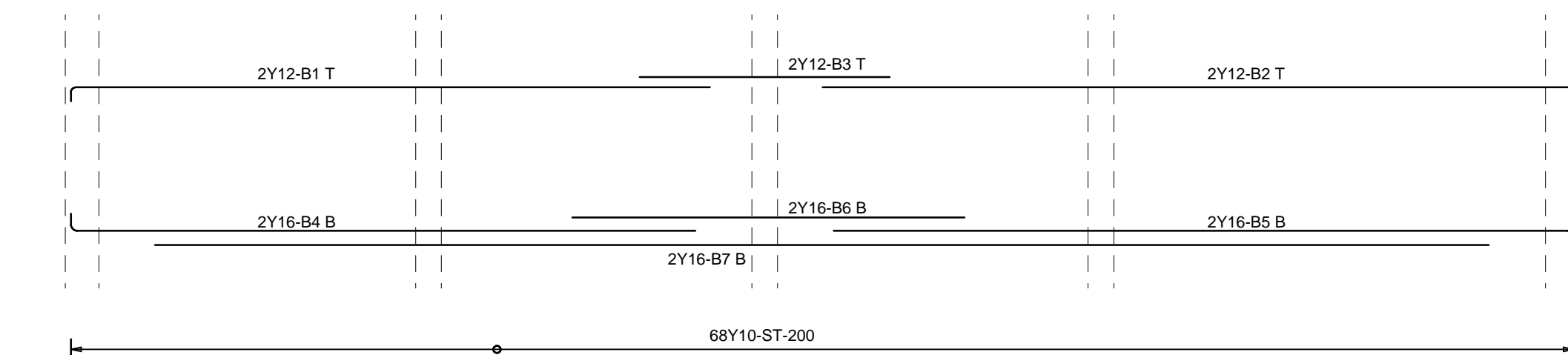
SCALE 1:50

MEMBER	No OF	BARS PER MEMB	DIA	LENGTH	TOTAL NUM-	MARK	S C	BENDING				
								A	B	C	D	E/r
FOUNDATION	1	142	Y12	4300	142	01	35	4100				
		88	Y12	7450	88	02	34	7350				
		166	Y12	2800	166	SB	37	1900				
		60	Y12	850	60	STL	83	500				
		36	Y12	1200	36	CB1	37	600				
		170	Y12	850	170	03	35	650				
		4	Y12	2250	4	04	35	2040				
		4	Y12	5300	4	05	35	5070				
		8	Y12	8350	8	06	34	8250				
		4	Y12	2750	4	07	35	2540				
SLAB		4	Y12	2050	4	08	35	2750				
		24	Y12	1600	24	09	35	1400				
		84	Y12	1100	84	10	35	900				
		10	Y12	3950	10	11	35	3760				
		40	Y12	4700	40	12	35	4460				
		39	Y12	5700	39	13	35	5470				
		4	Y12	3400	4	14	35	3200				
		36	Y12	7150	36	15	34	7020				
		20	Y12	8900	20	16	34	8780				
		40	Y12	800	40	CB2	20					
BEAM		2	Y12	8800	2	B1	34	5700				
		2	Y12	6800	2	B2	34	6700				
		2	Y12	2200	2	B3	20					
		2	Y16	5700	2	B4	34	5570				
		2	Y16	6750	2	B5	34	6600				
		2	Y16	3500	2	B6	20					
		2	Y16	11900	2	B7	20					
		68	Y10	1100	68	ST	60	170	320			
		8	10	12	16	20	25	32	40	TOT	Date	
		R	46	2823	88					2957	Det. by	
		Y	46	2823	88					2957	Ref Dwg	
		TOT	46	2823	88						Job No	



SECTION

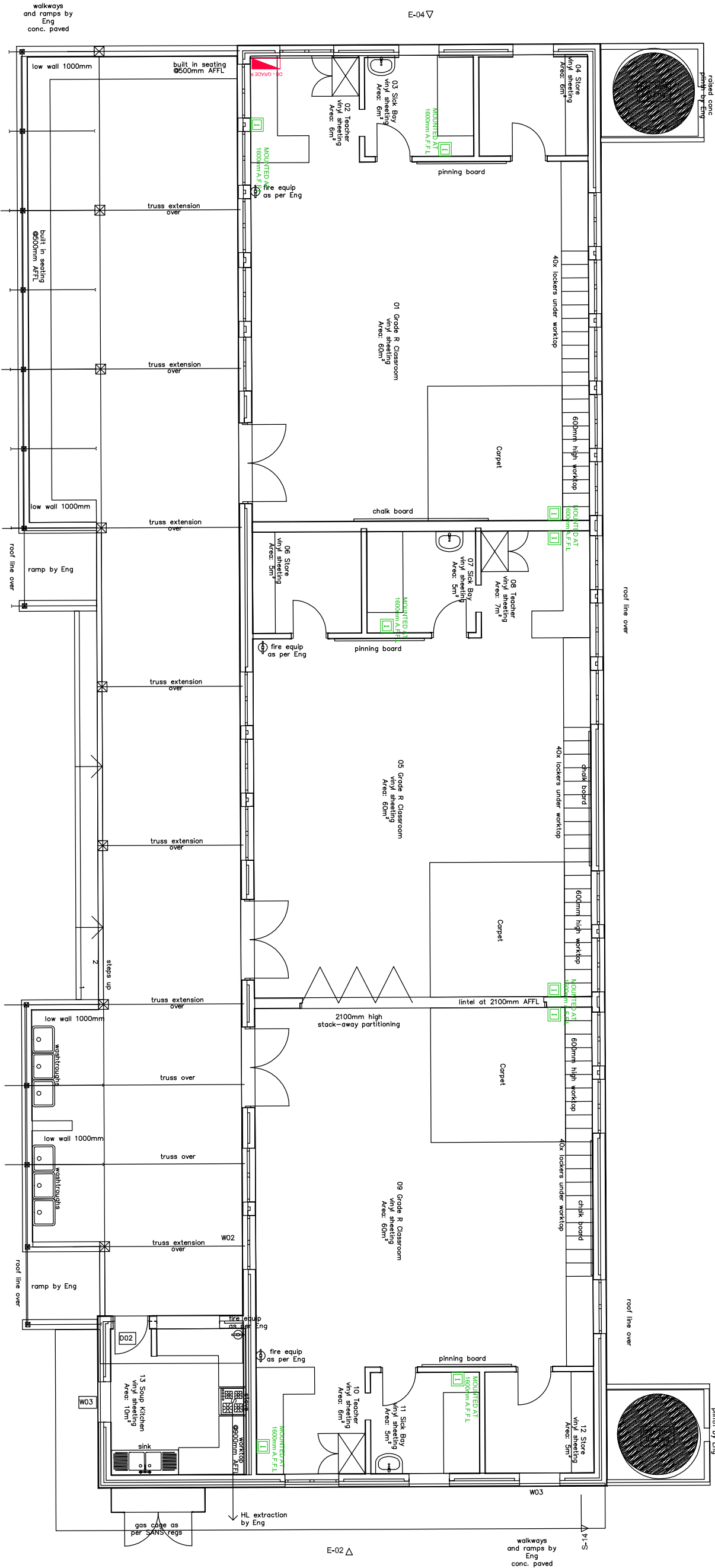
SCALE 1:50



BEAM REINFORCEMENT

SCALE 1:50

NOTES:
1. INTERCOM POINTS TO BE MOUNTED AT 1600mm A.F.F.L. AS DEPICTED IN THE DRAWING.

[illegible][illegible]

CLIENT:



IMPLEMENTING AGENT:



ARCHITECTS:

Osmond Lange Architects and Planners (Pty) Ltd East London
Postal: Private Bag 93, Teccoma, 5214
Address: Plot 1111 House, The Quarry
Sedibone, East London
T: 043 721 0033
F: 043 721 0036
E: olange@i.co.za

ELECTRICAL ENGINEERS:

PROJECT TITLE:
 IGT and DOE Portfolio Services Program - 2016/17 FY
 NEW EARLY CHILDHOOD DEVELOPMENT CENTRE TO
 KWAMATAMBO
 SP SCHOOL
 Nyanza Hill, Lusaka, Eastern Cape
 EIMS: 200 500 373

DRAWING TITLE:

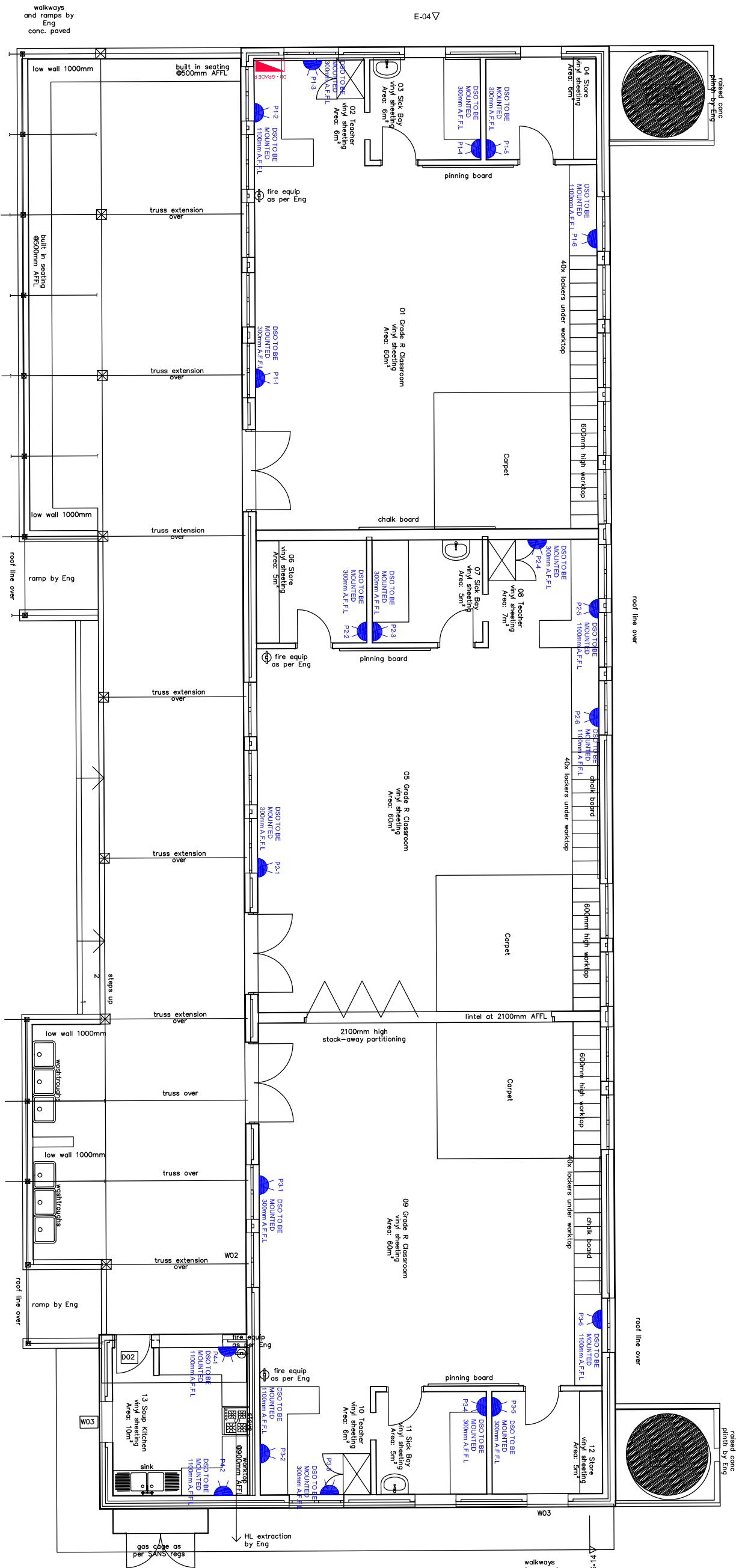
KVWAMATHAMBO SP SCHOOL
GRADE R INTERCOM LAYOUT




















DESIGNER:	T.S	DRAWN:	T.S	APPROVED:	S.P
SCALE:	NTS	COPYRIGHT	RESERVED	DATE:	JAN.2017
DRAWING FILE NAME:				REV:	
GRADE R - INTERCOM					0
SHEET NO.:				SIZE:	A3
CAR16E/1654/KSPS/004E					

PROJECT STATUS:

VERSION 1.0

- NOTES:
1. DOUBLE SOCKET OUTLETS IN STORES AND SICK BAY ON NORMAL SUPPLY TO BE MOUNTED AT 300mm A.F.F.L. AS DEPICTED IN THE DRAWING.
 2. DOUBLE SOCKET OUTLETS IN THE KITCHEN ON NORMAL SUPPLY TO BE MOUNTED AT 1100mm A.F.F.L AS DEPICTED IN THE DRAWING.
 3. DOUBLE POLE ISOLATOR IN THE KITCHEN TO BE MOUNTED 2000mm ABOVE F.F.L AS DEPICTED IN THE DRAWING.
 4. ELECTRICAL DRAWINGS TO BE READ IN CONJUNCTION WITH OTHER SERVICES SUCH AS JOINERY, WATER LINES AND SEWER LINES.
 5. IT IS ELECTRICAL SUB CONTRACTOR RESPONSIBILITY TO INFORM THE ELECTRICAL ENGINEER IF THERE IS CLASHES OF ELECTRICAL SERVICES WITH OTHERS.



LEARNING	
	Students will identify and describe the components of a system.
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	Students will identify and describe the components of a system.

No.:	Date:	By:	Description:
1	07/02/2017	TSS	Added power point in teachers offices
			Note added

CLIENT:



IMPLEMENTING AGENT:



ARCHITECTS

Osmond Lange Architects and Planners (Pty) Ltd East London
Private: Private Bag 23, Teconia, 5214
Address: Plot 401/101, The Quarry
Sobhuqe East London
T: (043) 721-0033
F: (043) 721-0036
E: olange@iol.co.za

ELECTRICAL ENGINEERS:

PROJECT TITLE: **ED and DOE Portfolio Schools Program - 2016/17 FY**

**KWAMATAMBO
SP SCHOOL**
Ngazun Hill, Lundu District, Sarawak, China
EMIS: 200 500 373

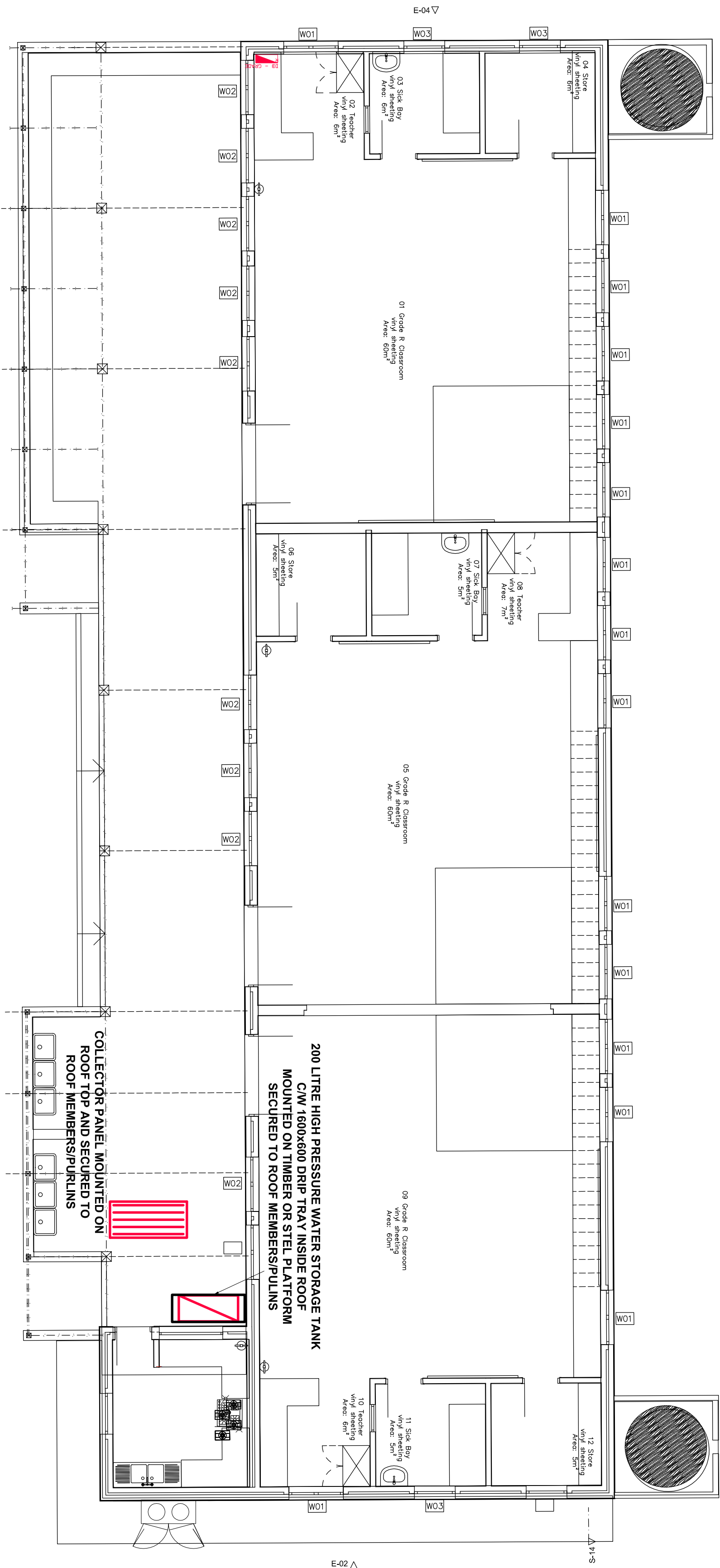
DRAWING TITLE:

KVAMATHAMBO SP SCHOOL
GRADE R POWER LAYOUT

DESIGNED:	T.S	DRAWN:	T.S	APPROVED:	S.P
SCALE:	NTS	COPYRIGHT	RESERVED	DATE:	JAN.2017
DRAWING FILE NAME:				REV:	

SHEET NO:
CAR16E/1654/KSPS/003E

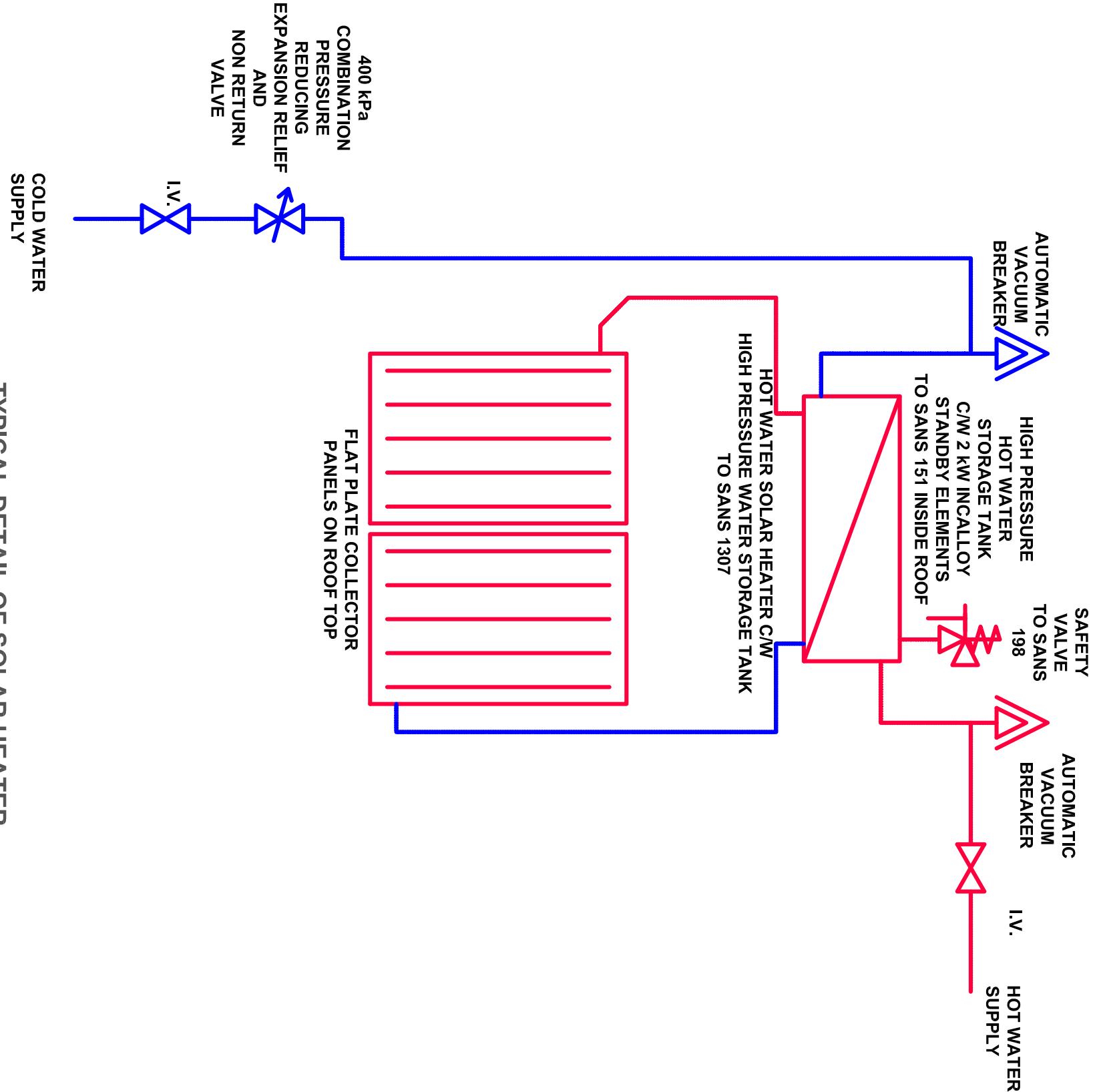
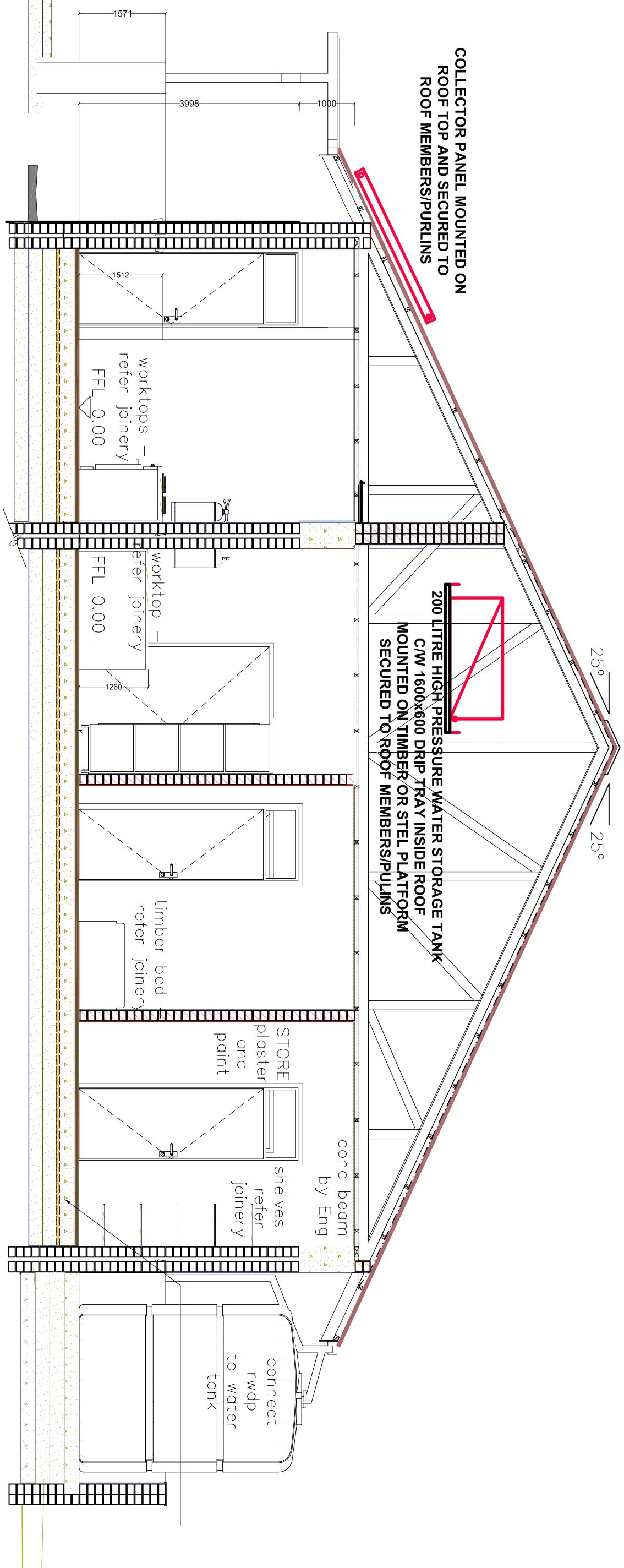
PROJECT STATUS:



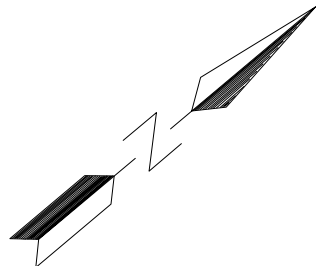
NOTE

- * ALL HOT WATER SUPPLY PIPEWORK ON INSIDE OF BUILDING TO BE INSULATED AND CLADDED OVER
- * ALL COPPER PIPEWORK TO BE DOMESTIC GRADE CLASS 2 ALL SOLDERED CONSTRUCTION ONLY
- * ALL PIPEWORK CONNECTIONS INTO FITTINGS TO BE CONEX COMPRESSION TYPE. ALL OTHER CONNECTIONS TO BE SOLDERED.
- * ALL PIPEWORK AND FITTINGS IN WALLS OR INACCESSIBLE AREAS TO BE PRESSURE TESTED BEFORE WORK IS CLOSED UP.
- * PANEL OUTLET TO BE MORE THAN 100mm BELOW THE TANK OUTLET.

PLAN VIEW
SCALE: 1:50



TYPICAL DETAIL OF SOLAR HEATER
(DIRECT SPLIT SYSTEM)
SCHEMATIC DIAGRAM



No.	Date	By	Description

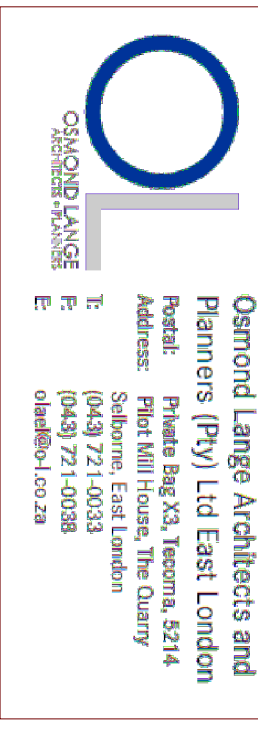
CLIENT



IMPLEMENTING AGENT:



ARCHITECTS:



MECHANICAL ENGINEERS:



PROJECT TITLE: IDT and QCE Evaluation School Program - 2016/17/18
NEW DAILY CHILDHOOD DEVELOPMENT CENTRE TO
KWAMATAMBO
SP SCHOOL
Ngqweni, Luthuli, Eastern Cape
EMIS: 200 500 373

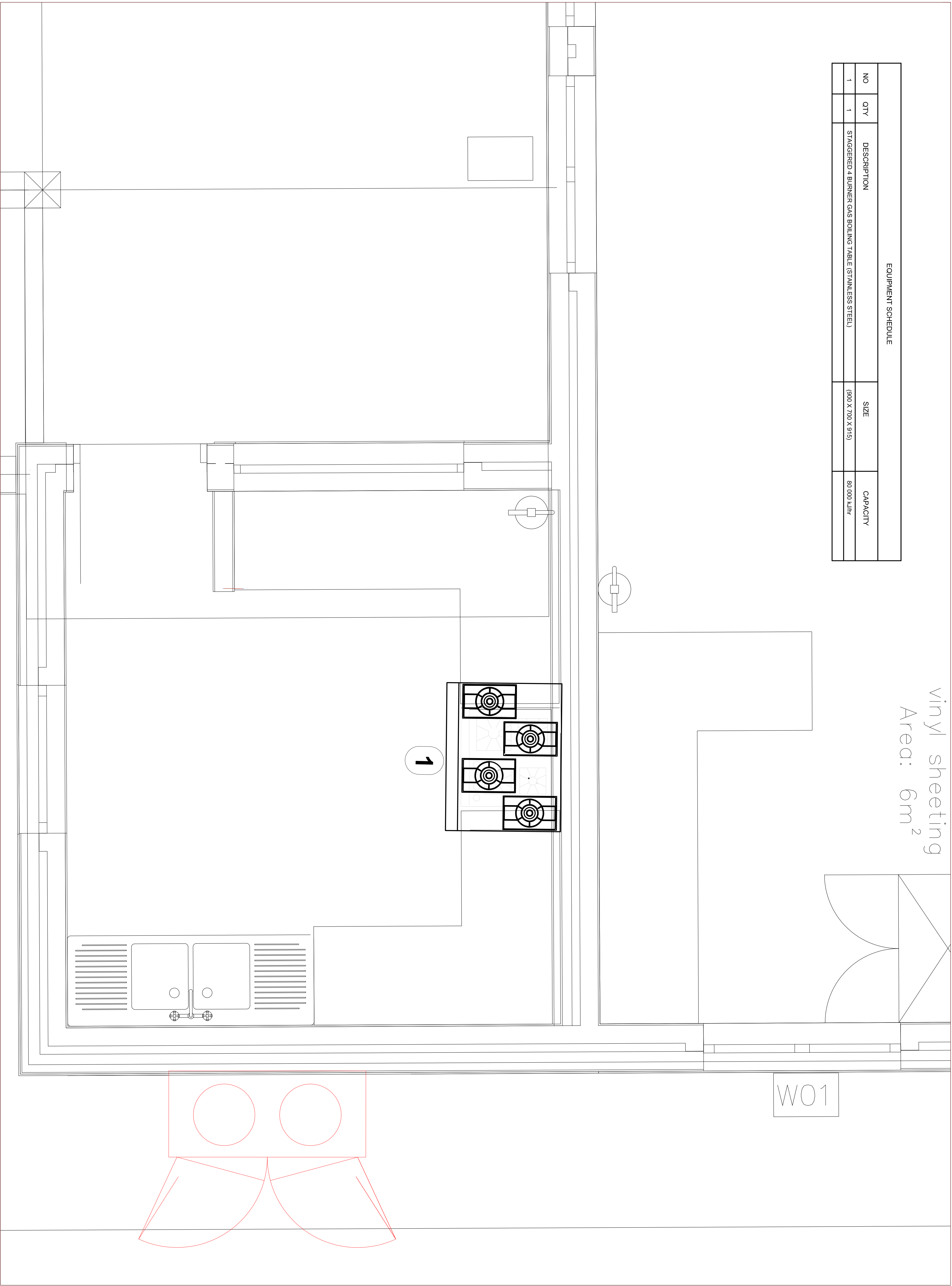
DRAWING TITLE:
KWAMATHAMBO SP SCHOOL
SOLAR HOT WATER STORAGE
GENERATING SYSTEMS

DESIGNED	M.R.	DRAWN	J.T.	APPROVED	M.R.
SCALE:	NTS	COPYRIGHT	DATE	REV	
DRAWING FILE NAME:					
SOLAR HOT WATER STORAGE GENERATING SYSTEMS	0		Feb 2017		
SHEET NO:					
CAR16M/1654/KSPS/001HW					
SIZE:					
A1					

PROJECT STATUS: TENDER
VERSION: 1.0

EQUIPMENT SCHEDULE			
NO	QTY	DESCRIPTION	CAPACITY
1	1	STAGGERED 4 BURNER GAS BOILING TABLE (STAINLESS STEEL)	80 000 kJ/hr

vinyl sheeting
Area: 6m²



No.	Date	By: Description

CLIENT:



IMPLEMENTING AGENT:



ARCHITECTS:



MECHANICAL ENGINEERS:



PROJECT TITLE: IDT and DCE Portfolio Schools Program - 2016/17 FY
NEW EARLY CHILDHOOD DEVELOPMENT CENTRE TO
KWAMATAMBO
SP SCHOOL
Nedra Hill, Luthuli, Eastern Cape
EIMS: 200 500 373

DRAWING TITLE:
KWAMATHAMBO SP SCHOOL
KITCHEN EQUIPMENT INSTALLATION
FLOOR PLAN

DESIGNED: M.R.	DRAWN: J.T.	APPROVED: M.R.
SCALE: NTS	COPYRIGHT: RESERVED	DATE: Feb 2017
DRAWING FILE NAME: KITCHEN EQUIPMENT INSTALLATION	REV: 0	SIZE: A1
SHEET NO: CAR16M/1654/KSPS/001KE		

PROJECT STATUS: TENDER

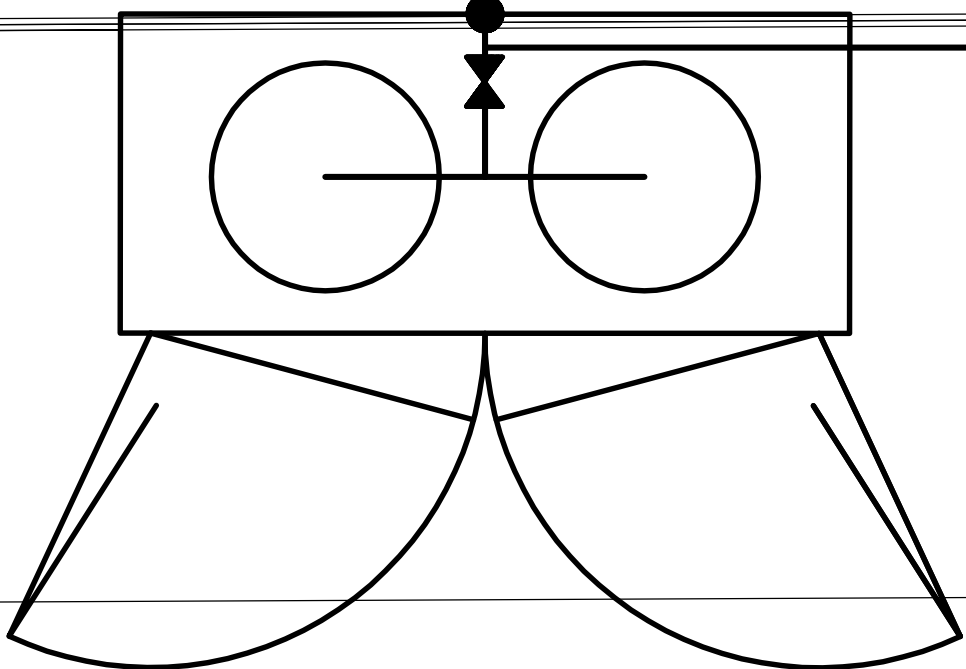
VERSION: 1.0

vinyl sheeting
Area: 5m²

20Ø (3/4) LPG
grade copper
tube fixed to wall

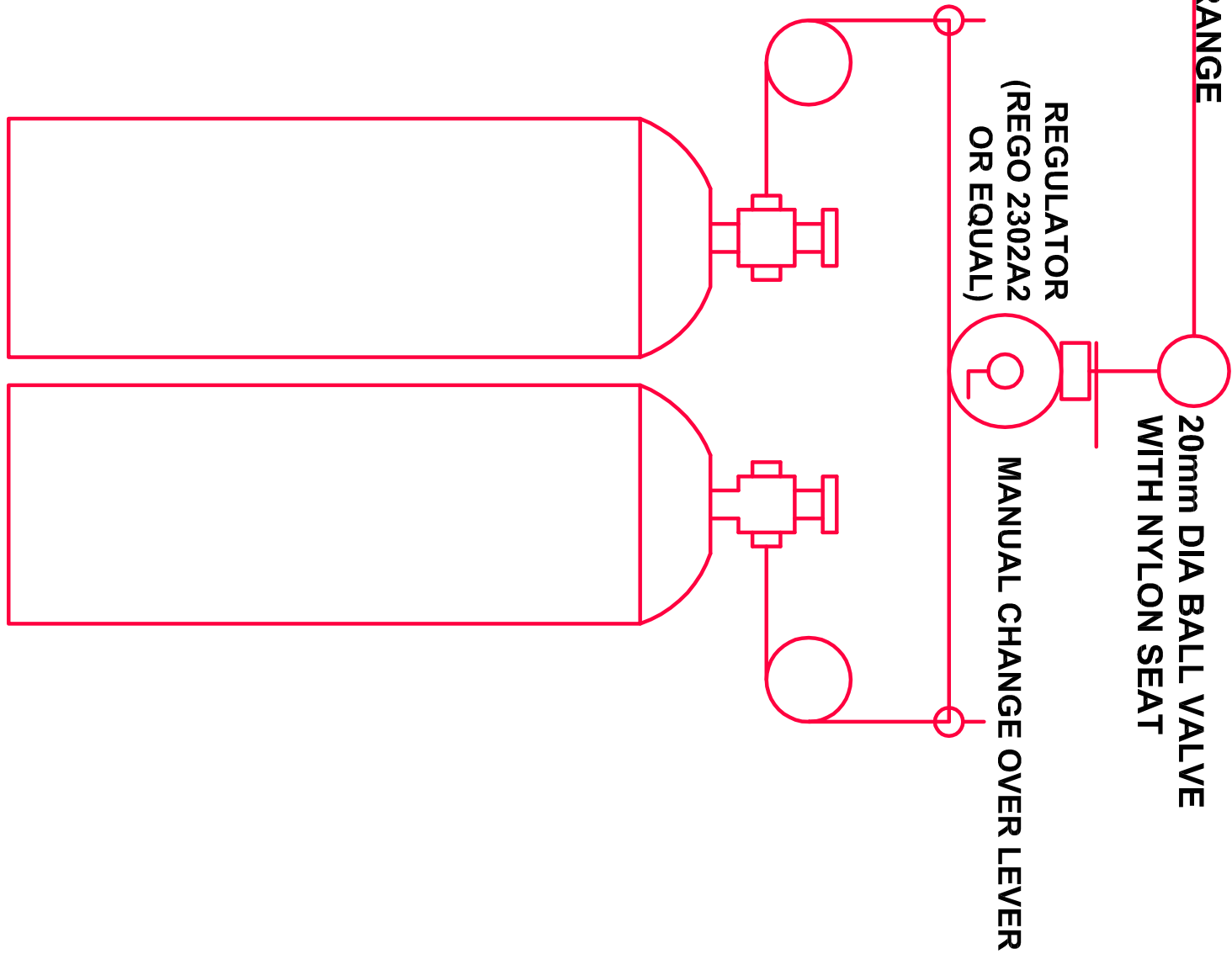
Shut off
Valve

WO1



LPG enclosure shall be 1800mm high x 500mm wide constructed of hot dip galvanised expanded metal with sheet metal roof covering 2000mm in length of manifold plus 150mm on each side

2 x 48kg LPG
cylinders, manifold with manual
changeover valve, regulator
and the isolator valves are to
be housed within a lockable
enclosure



LPG DOUBLE 1 x 48 kg CYLINDER MANIFOLD
(one duty and two standby)

The 2 x 48kg LPG cylinders, the manifold with manual changeover valve, regulator, and the isolation valve are to be housed within a lockable enclosure.



ARCHITECTS:



MECHANICAL ENGINEERS:



PROJECT TITLE: IDT and DOE Parallel Schools Program - 2016/17 FY
NEW PAAL/CHUMPOO DEVELOPMENT CENTRE TO
KWAMATHAMBO
SP SCHOOL
Nigeria TEL: Lumbale, Eastern Cape
EMMS: 200 500 373

DRAWING TITLE:

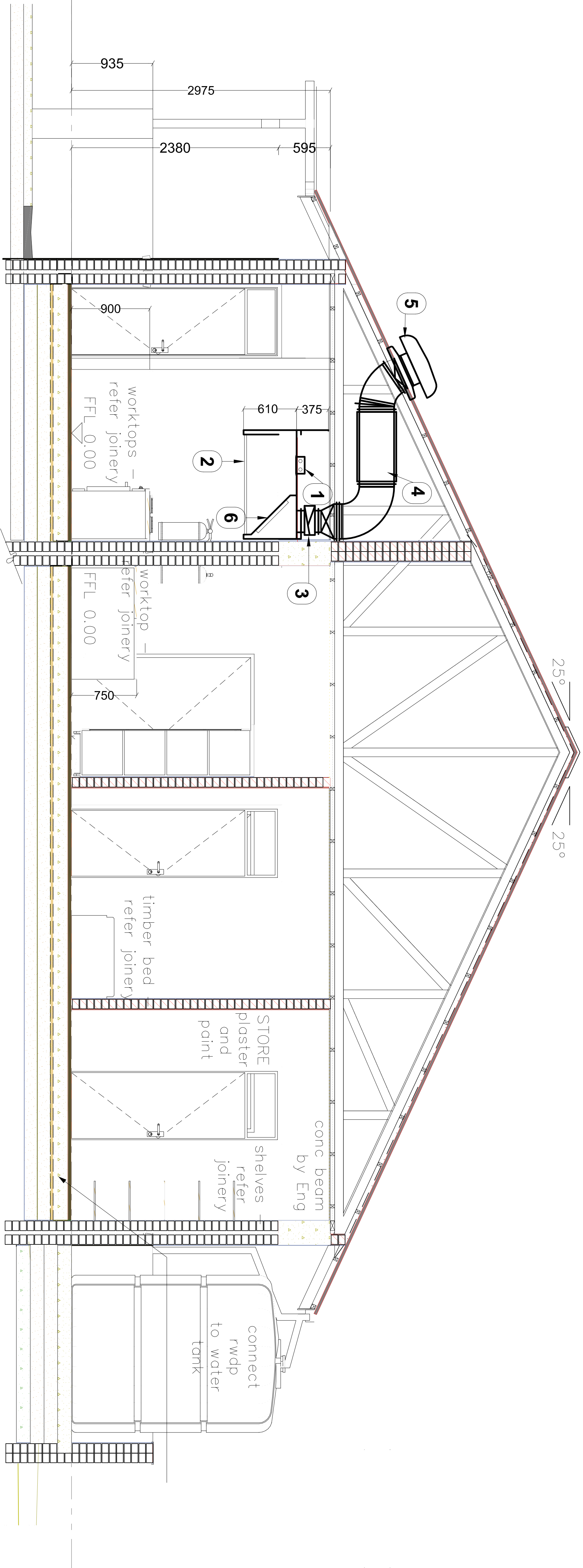
KWAMATHAMBO SP SCHOL
LIQUEFIED PETROLEUM GAS INSTALLATION
FLOOR PLAN

DESIGNED: M.R.	DRAWN: J.T.	APPROVED: M.R.
SCALE: NTS	RESERVED	DATE: 6/2017
DRAWING FILE NAME:	REV: 0	SIZE: A1
LIQUEFIED PETROLEUM GAS INSTALLATION	FLOOR PLAN	
SHEET NO: CAR16M/1654/KSPS/001LPG		

PROJECT STATUS: TENDER

VERSION: 1.0

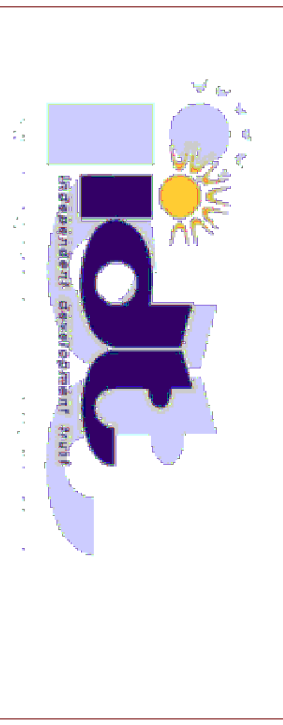
EQUIPMENT SCHEDULE			
NO	QTY	DESCRIPTION	CAPACITY
1	1	VAPOUR PROOF- FLUORESCENT LIGHT FITTING	(1200 X 1400 X 610) 1 OFF
2	1	STAINLESS STEEL KITCHEN EXTRACTOR CANOPY	275 X 400
3	1	EXHAUST SINGOT	1200
4	1	SOUND ATTENUATOR	400 dba
5	1	MIXED FLOW ROOF EXTRACTOR FAN	400
6	1	S/S GREASE FILTERS	500 x 500mm



No.	Date	By	Description



IMPLEMENTING AGENT:



ARCHITECTS:



MECHANICAL ENGINEERS:



PROJECT TITLE: IDT and QCE Education School Program - 2019/17/17
NEW EARLY CHILDHOOD DEVELOPMENT CENTRE TO
KWAMATAMBO
SP SCHOOL
Region: Mth, Luthuli, Eastern Cape
EMIS: 200 500 373

DRAWING TITLE:
KWAMATAMBO SP SCHOOL
KITCHEN EXTRACTION SYSTEM
SECTIONS

DESIGNED: M.R.	DRAWN: J.T.	APPROVED: M.R.
SCALE: NTS	COPYRIGHT: RESERVED	DATE: Feb 2017
DRAWING FILE NAME: KITCHEN EXTRACTION SYSTEM	REV: 0	SIZE: A1
SHEET NO: CAR16M/1654/KSPS/002CAN	SECTION: A1	SIZE: A1

PROJECT STATUS: TENDER
VERSION: 1.0