

Doors and Windows	
Name	D01 - Grade R Classroom Door
View from Side Opposite to Opening Side	
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

N°	DATE	REVISION DESCRIPTION	N°	DATE	REVISION DESCRIPTION
P0	01.12.16	revised to client comment			
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-801		Revision P0



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Doors and Windows	
Name	D02 - Soup Kitchen Door
View from Side Opposite to Opening Side	
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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PO	01.12.16	revised to client comment			
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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	
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

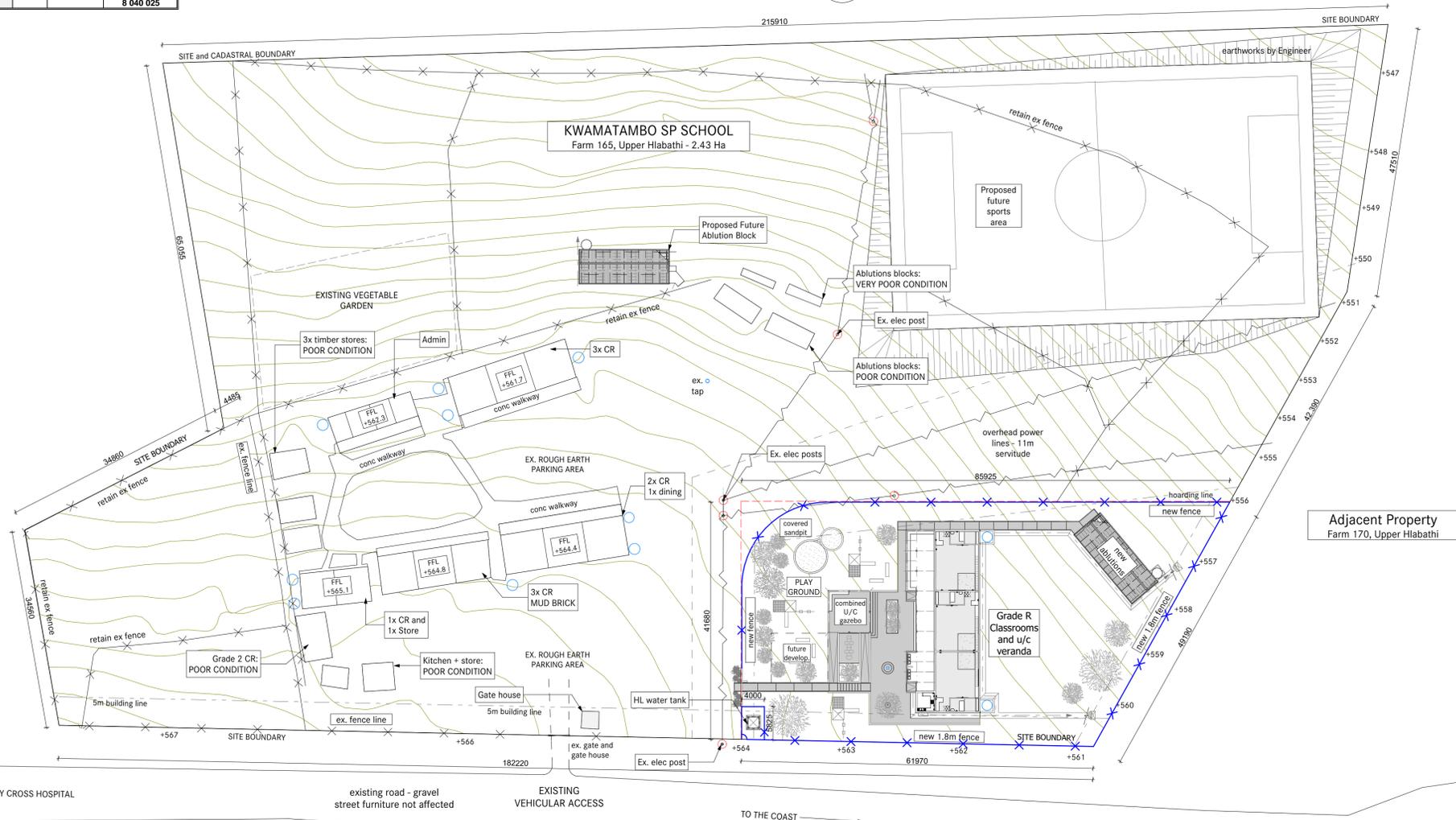
N°	DATE	REVISION DESCRIPTION	N°	DATE	REVISION DESCRIPTION
P0	01.12.16	revised to client comment			
Client IDT and DOE PORTFOLIO SCHOOLS PROGRAM			Drawn ML		Checked DC
Project NEW ECDC TO KWAMATAMBO SPS EMIS: 200 500 373			Status WD		Drawing Scale 1:50
Drawing Name Floor Plan - Ablutions			Dwg No E1344-AR-809		Revision P0



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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				
GR 2	93				
GR 3	96				
GR 4	79				
GR 5	64				
GR 6	70				
GR 7	46				
GR 8	0				
GR 9	0				
TOTAL ENROLMENT	624	MALE		FEMALE	
TOTAL STAFF		0	0		
MINIMUM EDUCATION AREAS		exist	norms		
Demolish/relocate existing temporary structures		CHECK ON SITE			
Temporary classrooms/construction		CHECK ON SITE			
GRADE R CLASSROOM:		TOTAL	3	INTERNAL DIM	82
Including teaching area			3	INTERNAL DIM	60
including space for teachers= 1 per class			3	INTERNAL DIM	5
including sick bay X 1 per classroom			3	INTERNAL DIM	5
including store room = 1 per classroom			3	INTERNAL DIM	5
Kitchen (warming) 1 kitchen per cluster of classrooms			1	INTERNAL DIM	7
Verandah			1		45
EXTERNAL WALL AREA			11%	EXT	3
Plus fenced play area with equipment		play equipment			27
					7 500
					ITEM
					175 000
					408
					18 500
					2 750 950
wc		whb			
UNISEX TOILETS			9	6	VIP
DISABLED /STAFF			2	0	VIP
TOTAL			11	6	TOTAL
Fencing		around Grade R as required	1.8 weld mesh	500	1
water tanks		water tank at toilets as required	500lit	1	1
elevated water tank		48 hr storage as SANS	5000lit	1	1
TOTAL					
					55 000
					55 000
					605 000
					450 000
					4 000
					10 000
					484 000
BULK SERVICES					
Electrical connection		Existing grid- check upgrade			
Water Connection		existing municipal		check upgrade	
Sewer Connection		None- check if municipal possible		check upgrade	
Stormwater connect				CHECK UPGRADE	
TOTAL					
					200 000
					100 000
					0
					100 000
					400 000
Land surveying					1
Geotech		ground water protocol			1
Landscaping					1
bulk earthworks				provisional amount	
TOTAL					
					20 000
					20 000
					175 000
					250 000
					465 000
					4 694 950
					234 248
					614 900
					442 728
					1 075 828
					987 371
					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



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GENERAL NOTE

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B. CONTRACTOR NOTES

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Approvals:

Signature: _____ Date: _____
Dept. of Education

Signature: _____ Date: _____
IDT

Nº	DATE	REVISION DESCRIPTION	BY
P1	24.11.16	revised to client comment	
PO	07.11.16	for measurement	
	22.08.16	SDP APPROVED - with revisions noted	

Client:
Province of the EASTERN CAPE EDUCATION

Implementing Agent:
idt

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

Drawing Name: Site Development Plan

Drawing Status: FOR WORKING DRAWING APPROVALS

Modified by: _____ Date: _____
ML

Checked by: _____ Date: _____
DC

Drawing Scale: as shown

Drawing Number: E1344_AR-101 **Revision:** P1

Site Development Plan

1:500

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Approvals:

Signature: _____ Date: _____
 Dept. of Education

Signature: _____ Date: _____
 IDT

PO	DATE	REVISION DESCRIPTION	BY
PO 01.12.16		for measurement and info	

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Client:

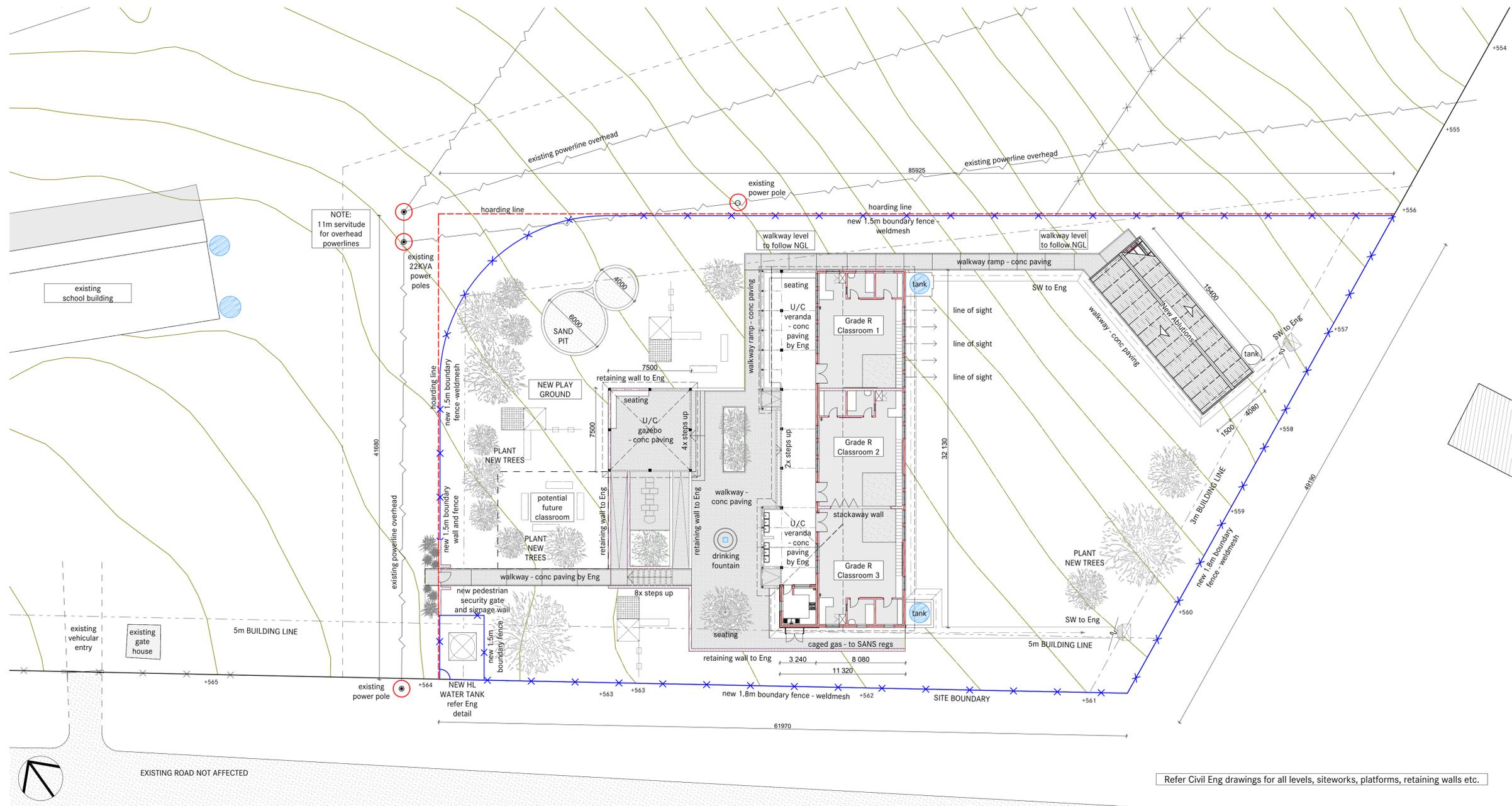
 Province of the EASTERN CAPE
 EDUCATION

Implementing Agent:

 idt
 Infrastructure Development Trust

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

Drawing Name Site Plan - Grade R's	
Drawing Status FOR WORKING DRAWING APPROVALS	
Modified by ML	Date
Checked by DC	Date
Drawing Scale as shown	
Drawing Number E1344_AR-102	Revision PO



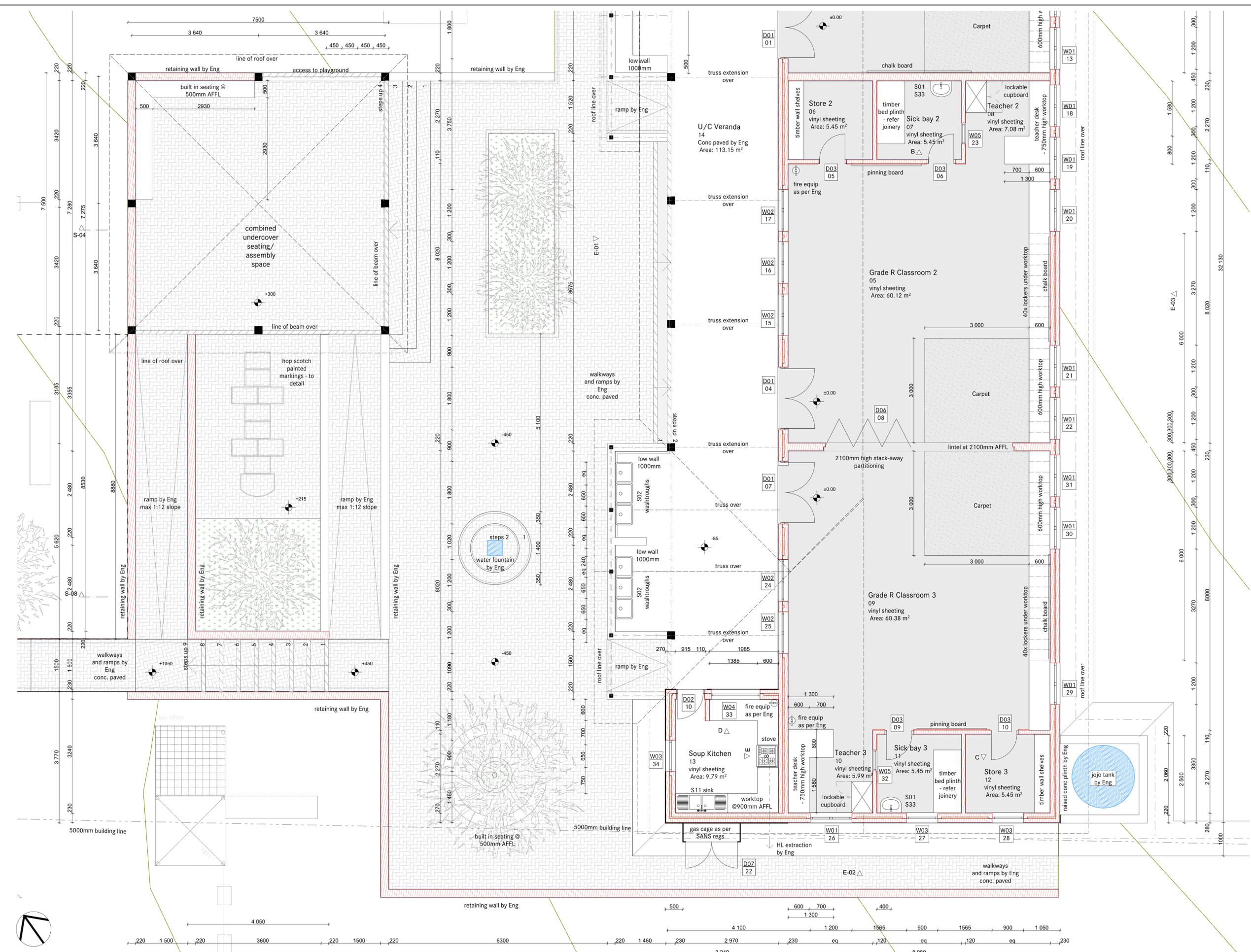
Site Plan - Ground Floor

1:200

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

EXISTING ROAD NOT AFFECTED





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Approvals:

Signature	Date
Dept. of Education	
Signature	Date
IDT	

PO	DATE	REVISION DESCRIPTION	BY
P0	24.11.16	New drawing: revised to client comment	

Client:
Province of the EASTERN CAPE EDUCATION

Implementing Agent:
idt

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: Floor Plans - Grade R
Drawing Status: FOR WORKING DRAWING APPROVALS
Modified by: ML
Checked by: DC
Drawing Scale: as shown
Drawing Number: E1344_AR-200
Revision: P0

Floor Plan - Grade R Classrooms and Playground

1:50

Note:
Drawing orientation revised to suit layout - refer Site Plan for True North orientation

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Approvals:

Signature _____ Date _____
Dept. of Education

Signature _____ Date _____
IDT

PO	DATE	REVISION DESCRIPTION	BY
P0	24.11.16	New drawing: revised to client comment	

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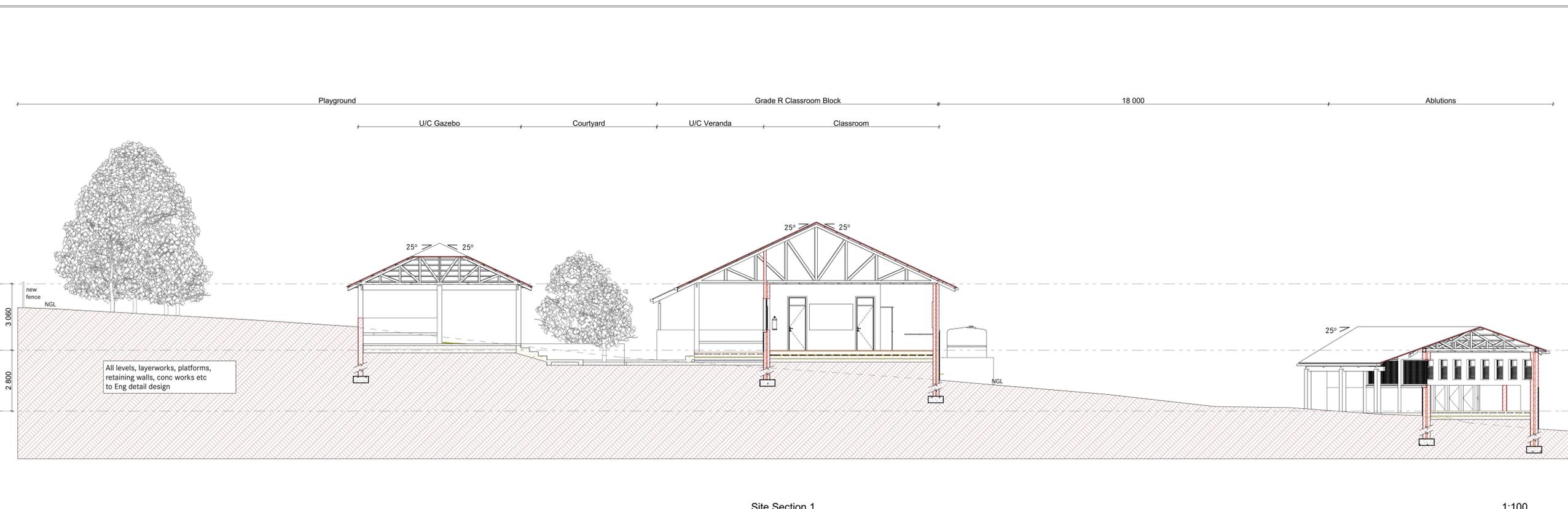
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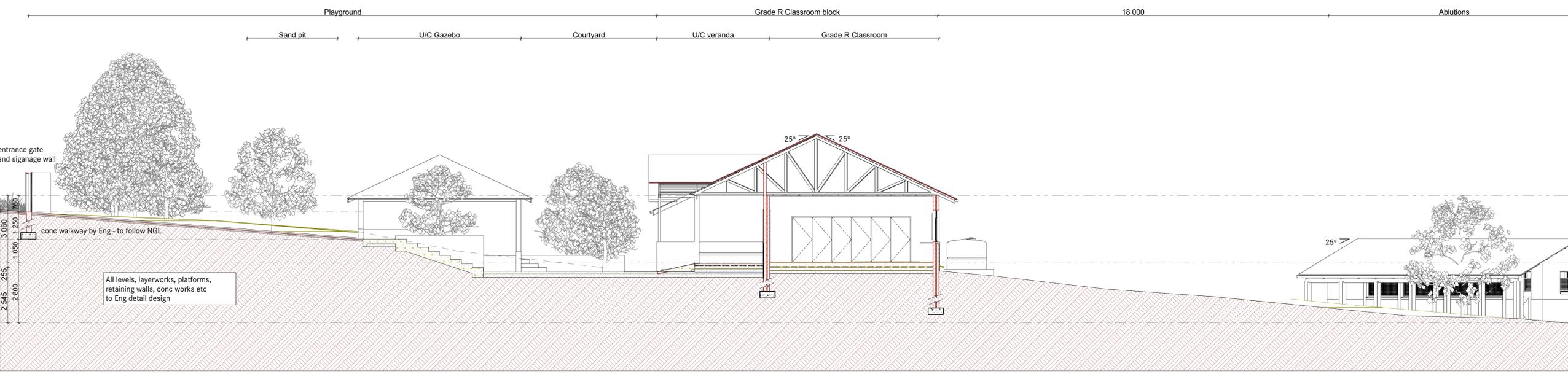
Project:
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 Ngquza Hill, Lusikisiki, Eastern Cape
 EMIS: 200 500 373

Drawing Name	Sections
Drawing Status	FOR WORKING DRAWING APPROVALS
Modified by	Date
ML	
Checked by	Date
DC	
Drawing Scale	as shown
Drawing Number	Revision
E1344_AR-300	P0



Site Section 1

1:100



Site Section 2

1:100

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 2. ALL PLUMBING QUERIES ARE TO BE REFERRED TO THE RELEVANT SPECIALIST CONSULTANTS DRAWINGS, SPECIFICATIONS AND DETAILS.
 3. ALL CONCRETE, COLUMNS AND STRUCTURAL QUERIES ARE TO BE REFERRED TO PR. STRUCTURAL ENGINEER'S DRAWINGS, SPECIFICATIONS AND DETAILS.
 4. ALL EXTERNAL / INTERNAL WALLS REQUIRING BRACING / STIFFENING ARE TO BE CONSTRUCTED IN ACCORDANCE WITH PR. STRUCTURAL ENGINEER'S DRAWINGS, SPECIFICATIONS AND DETAILS.
 5. ALL SPECIFICATIONS WITH REGARD TO FIRE REGULATIONS, TO BE REFERRED TO CONSULTANTS DRAWINGS, SPECIFICATIONS AND DETAILS.
 6. ALL DESIGN AND CONSTRUCTION TO COMPLY WITH THE RELEVANT SANS REGULATIONS.
 7. ANY DISCREPANCY IN THE DRAWINGS, DIMENSIONS & SPECIFICATIONS TO BE BROUGHT TO THE ATTENTION OF THE CONSULTANT AND ARCHITECT PRIOR TO ANY WORK BEING PUT IN HAND.
 8. ONLY FIGURED DIMENSIONS TO BE FOLLOWED - SCALED DIMENSIONS OF DRAWINGS WILL NOT BE PERMITTED.

B. CONTRACTOR NOTES

1. CONTRACTOR SHALL RECONFORM ALL SALIENT LEVELS WITH MUNICIPALITY PRIOR TO COMMENCEMENT OF WORK.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CO-ORDINATION OF ALL SERVICES.
3. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL AUTHORITY REQUIREMENTS.
4. 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. FOR THE CONSULTANTS APPROVAL PRIOR TO COMMENCEMENT OF WORK.
5. THE CONTRACTOR SHALL INSPECT THE SITE PRIOR TO ANY WORK BEING PUT IN HAND AND TAKE INTO CONSIDERATION ALL ASPECTS OF THE WORKS, TO BE CARRIED OUT INCLUDING ANY DEWATERING, IF REQUIRED. THE COSTS OF THE DEWATERING TO BE SUBMITTED PRIOR TO WORK BEING COMMENCED ON SITE. ANY DISCREPANCY IN THE DRAWINGS, DIMENSIONS AND SPECIFICATION TO BE BROUGHT TO THE ATTENTION OF THE CONSULTANT AND ARCHITECT PRIOR TO WORK BEING PUT IN HAND.
7. ALL EQUIPMENT SHALL BE TO THE APPROVAL OF THE LOCAL AUTHORITIES AND COMPLY WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT.
8. ALL DIMENSIONS AND LEVELS ARE TO BE VERIFIED ON SITE PRIOR TO COMMENCING SETTING OUT, WORKSHOP DRAWINGS OR CONSTRUCTION.

C. GENERAL NOTES

1. ALL STRUCTURAL COMPONENTS TO STRUCTURAL ENGINEER'S DETAIL AND ARCHITECT'S APPROVAL.
2. ALL SEWER AND WASTE WATER POINTS TO CONNECT TO EXISTING SEWER LINES.
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 FUNGAL DECAY AS PER SANS 10005.

Approvals:

Signature: _____ Date: _____
Dept. of Education

Signature: _____ Date: _____
IDT

Nº	DATE	REVISION DESCRIPTION	BY
P1	24.11.16	New drawing: revised to client comment	
P0	07.11.16	for measurement	

Nº	DATE	REVISION DESCRIPTION	BY

Osmond Lange Architects and Planners (Pty) Ltd East London
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 E: ola@ol-a.co.za

Client:

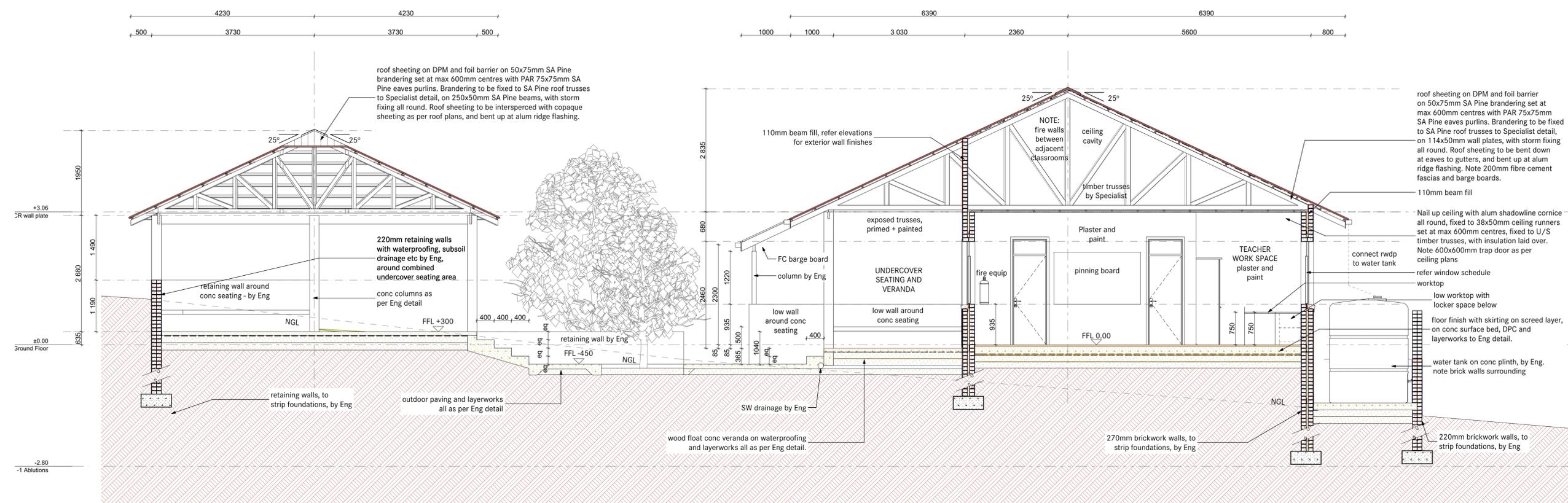
 Province of the EASTERN CAPE
 EDUCATION

Implementing Agent:

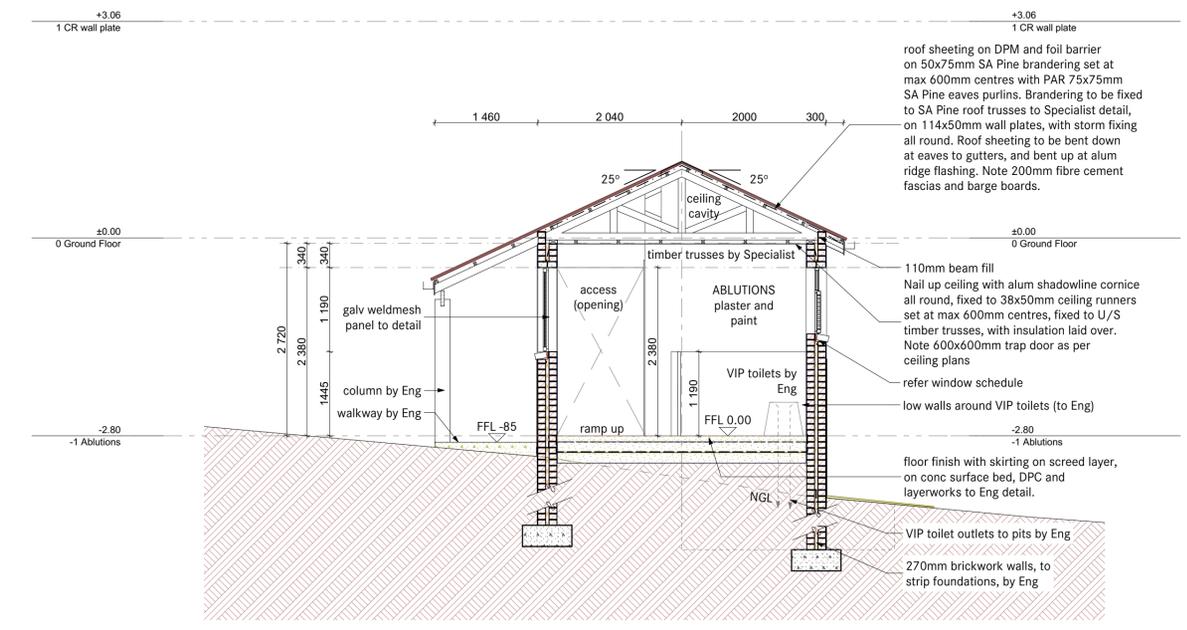
 idt
 Infrastructure Development Trust

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

Drawing Name	Sections
Drawing Status	FOR WORKING DRAWING APPROVALS
Modified by	Date
ML	
Checked by	Date
DC	
Drawing Scale	as shown
Drawing Number	Revision
E1344_AR-301	P1



Section - Grade R Classroom and U/C seating 1:50

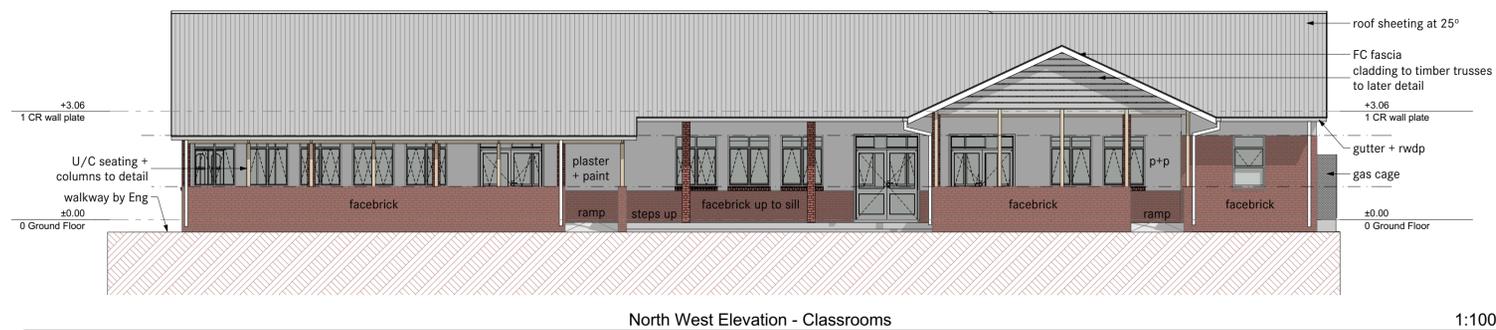


Section - Ablutions 1:50

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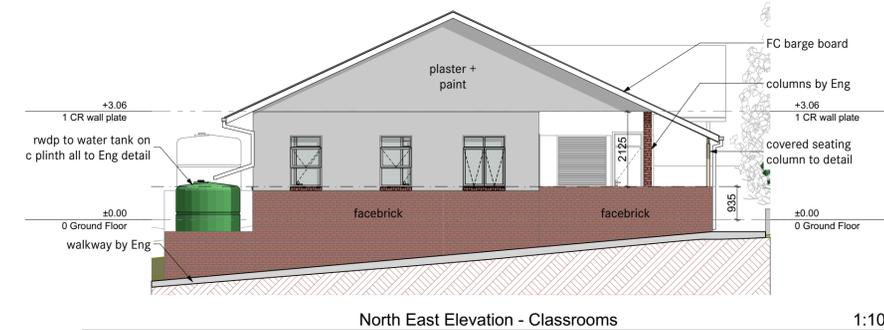
GENERAL NOTE

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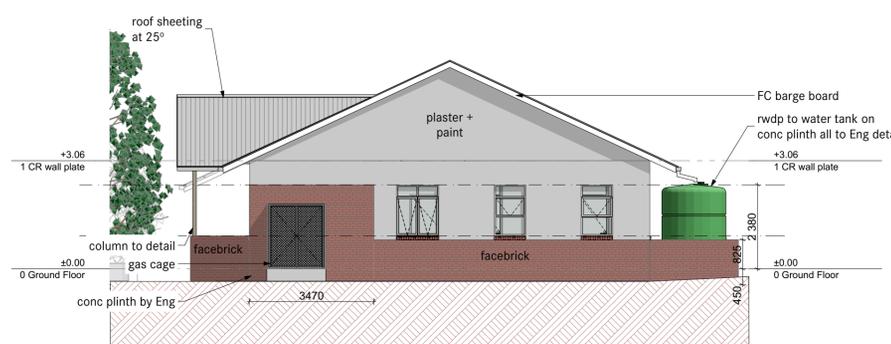
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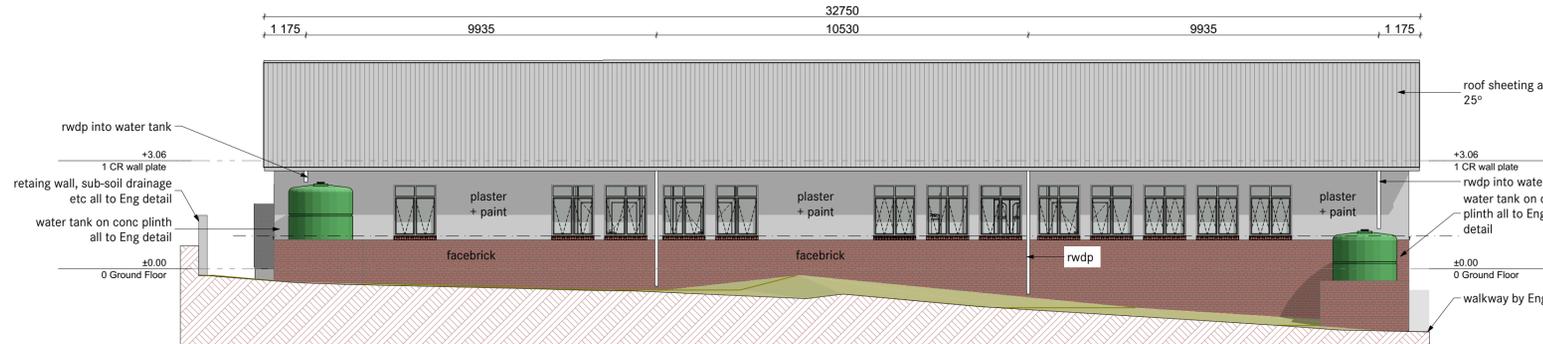
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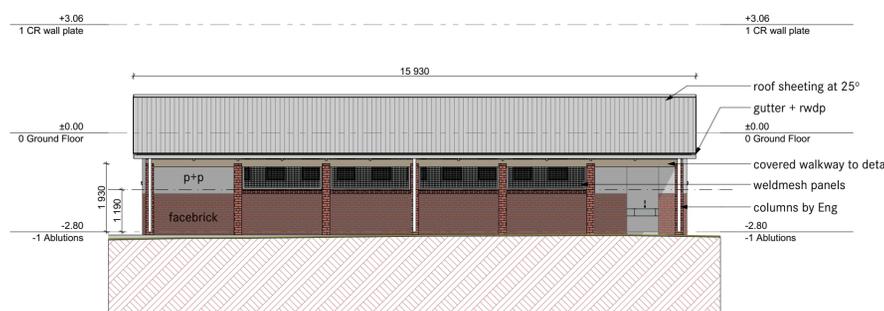
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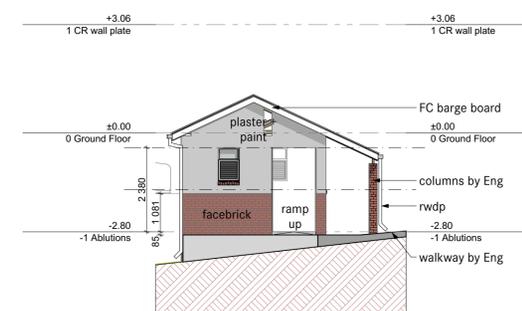
South East Elevation - Classrooms

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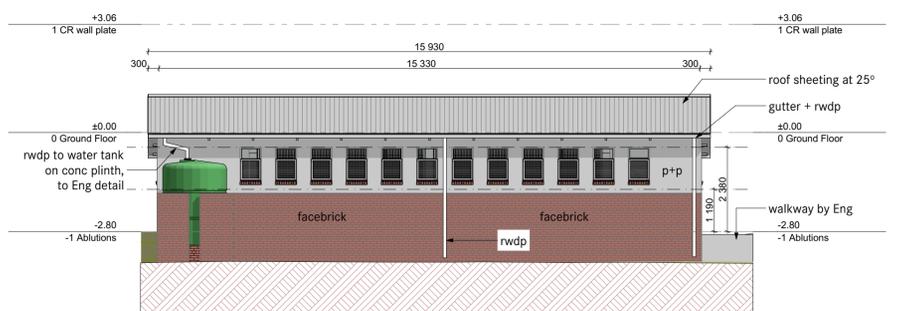
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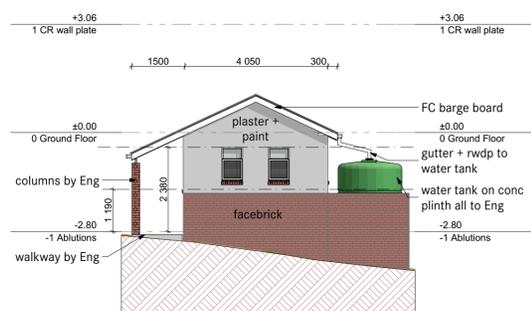
North Elevation - Ablutions

1:100



East Elevation - Ablutions

1:100



South Elevation - Ablutions

1:100

Approvals:

Signature: Dept. of Education Date:

Signature: IDT Date:

Nº	DATE	REVISION DESCRIPTION	BY
P1	01.12.16	rev as per Client comment, for measurement	
P0	07.11.16	for measurement	

Osmond Lange Architects and Planners (Pty) Ltd East London
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Client:
 Province of the EASTERN CAPE EDUCATION

Implementing Agent:
 idt

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: Elevations

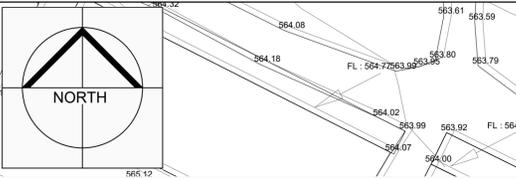
Drawing Status: FOR WORKING DRAWING APPROVALS

Modified by: ML Date:

Checked by: DC Date:

Drawing Scale: as shown

Drawing Number: E1344_AR-400 Revision: P1



PLATFORM CO - ORDINATE LIST			
Name	Y-Co ord	X-Co ord	Z-Co ord
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
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BM2	26915.04	3372065.56	1548.72
BM3	26951.57	3371970.48	1544.34

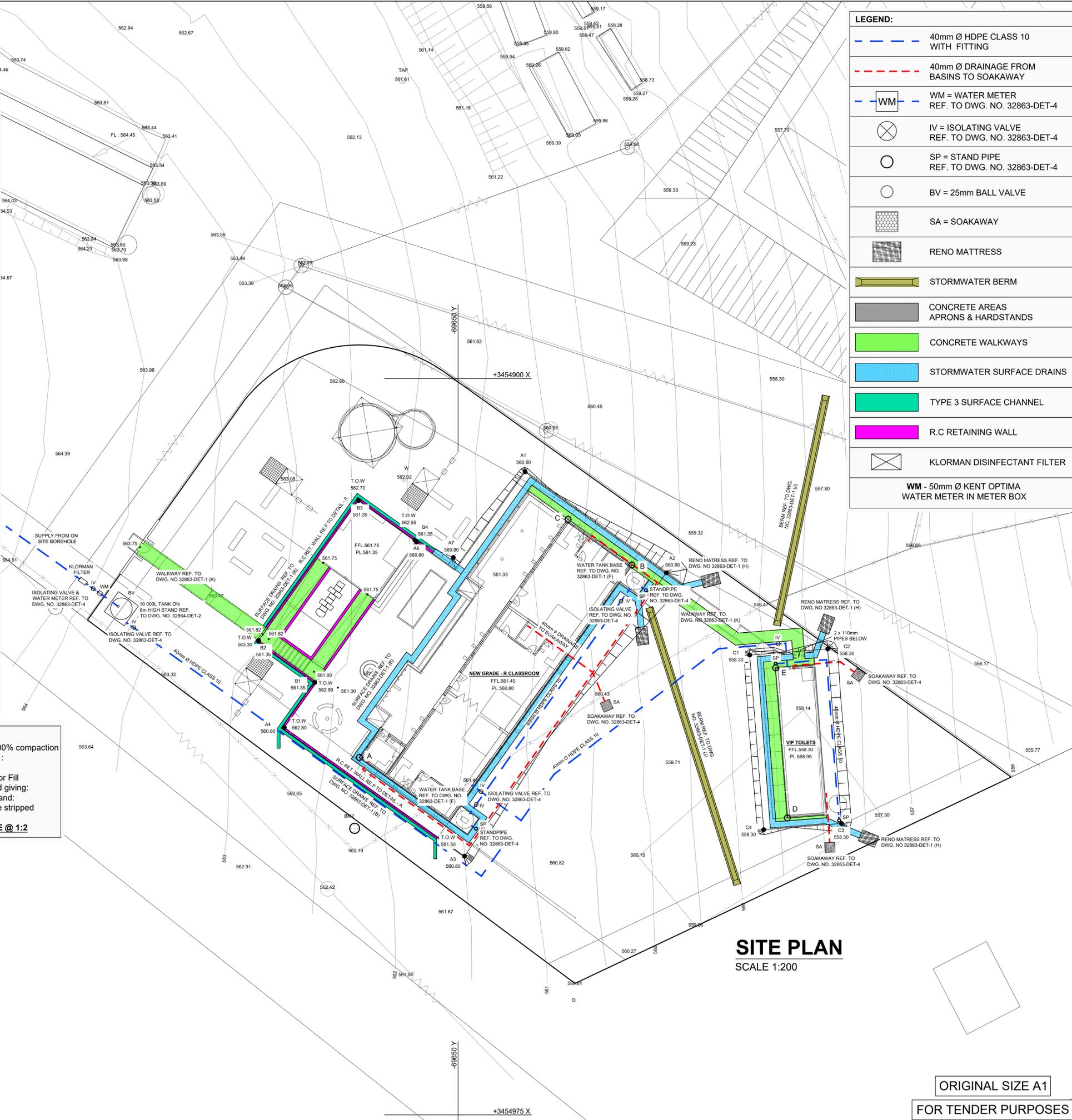
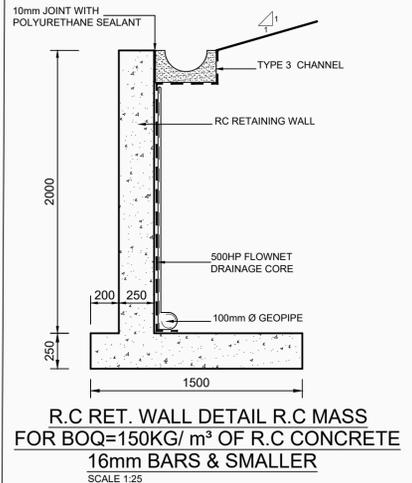
BUILDING SETTING OUT CO - ORDINATES			
Name	Y-Co ord	X-Co ord	Z-Co ord
A	-69639.941	+3454939	
B	-69667.735	+3454919	
C	-69661.223	+3454914	
D	-69683.588	+3454945	
E	-69682.388	+3454929	

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



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	

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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

CLIENT APPROVED _____ DATE _____

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 e-mail: el@camdekon.co.za

CONSULTANT SIGNATURE	DATE

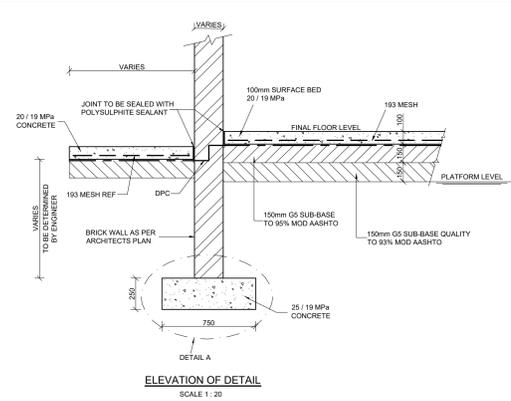
PROJECT TITLE
KWAMATHAMBO - JSS (32863)

DRAWING TITLE
SITE LAYOUT & CIVIL SERVICES PLAN

SCALE	AS SHOWN	DRAWING No.	32863-CIV-1	REV.	1
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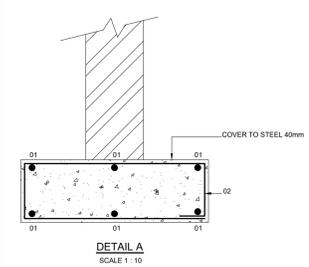
SITE PLAN
 SCALE 1:200

ORIGINAL SIZE A1
 FOR TENDER PURPOSES

A

MEMBER	No OF BARS PER MEMB	DIA.	LENGTH	TOTAL NUMB	MARK	SC	BENDING								
							A	B	C	D	E / f				
01		Y16		1	STR										
02		R8	1850	2								650	150		

STIRRUPS AT 300mm c/c Y16 BARS CUT TO LENGTH ON SITE
BENDING SCHEDULE REFLECTS PER METER LENGTH

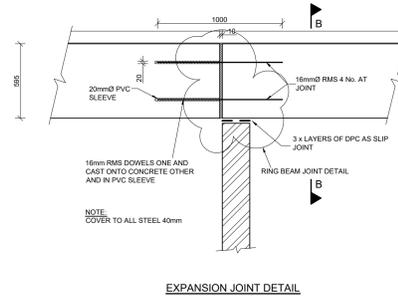


FOOTING DETAILS TO ALL WALLS AS PER THE ARCHITECT FOUNDATION PLAN

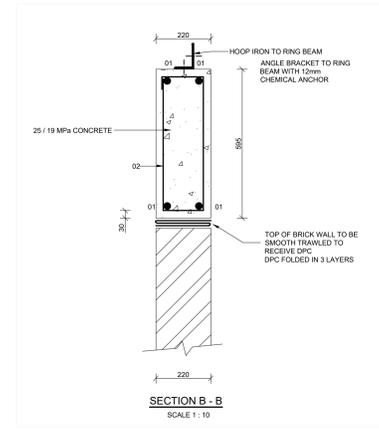
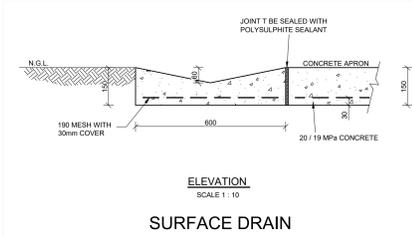
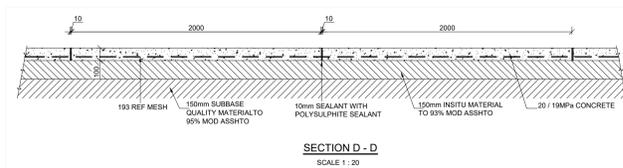
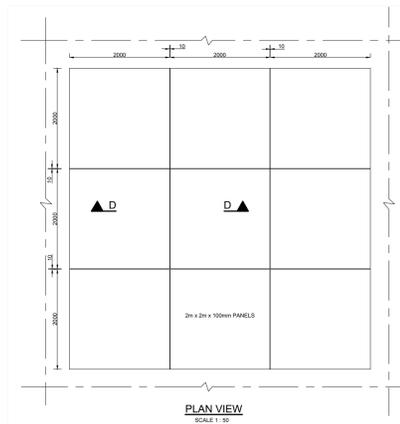
E

MEMBER	No OF BARS PER MEMB	DIA.	LENGTH	TOTAL NUMB	MARK	SC	BENDING							
							A	B	C	D	E / f			
01		Y16		1	STR									
02		R8	1850	2								650	150	

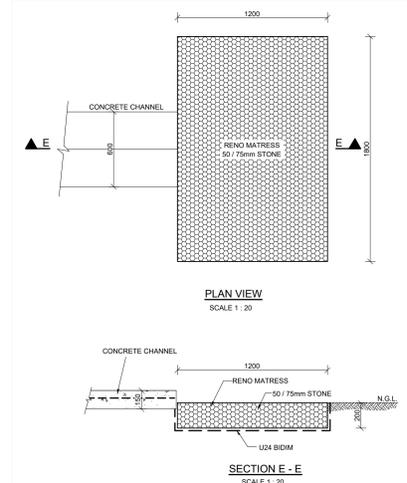
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BENDING SCHEDULE REFLECTS PER METER LENGTH



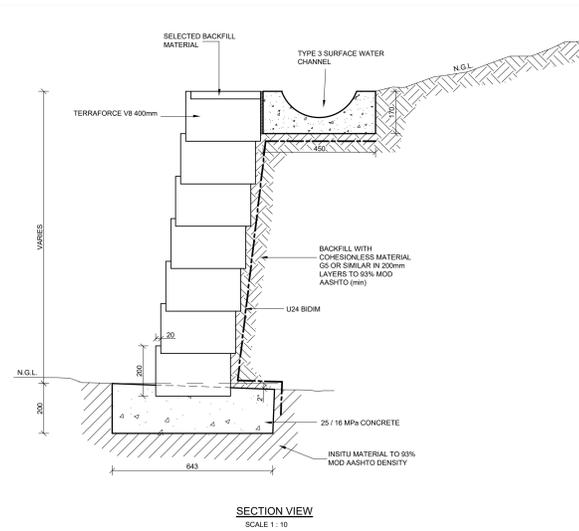
TYPICAL RING BEAM AND VERANDAH BEAM FOR BUILDINGS

**B****I**

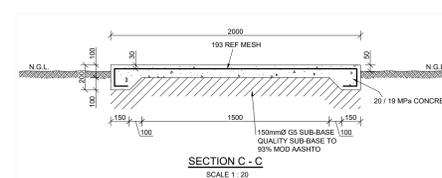
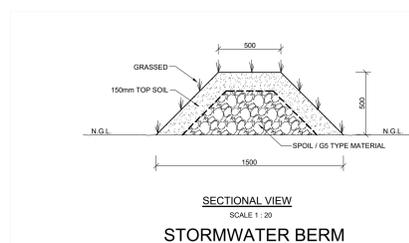
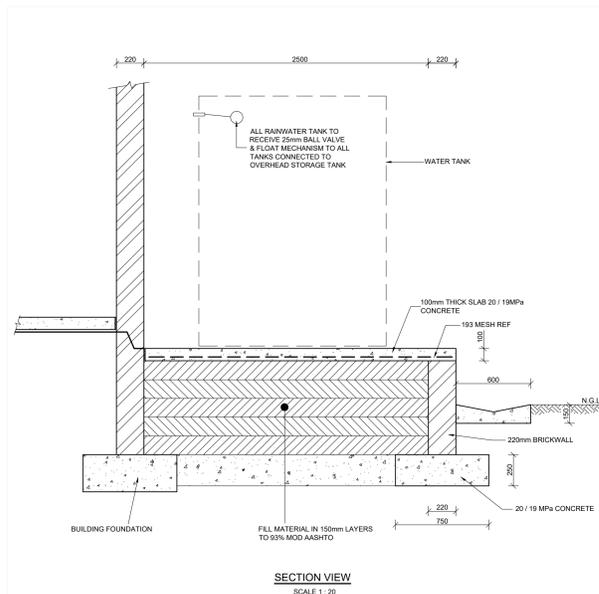
DETAIL OF CONCRETE PANELS FOR AREAS AROUND BUILDING AS INDICATED BY ARCHITECT

H

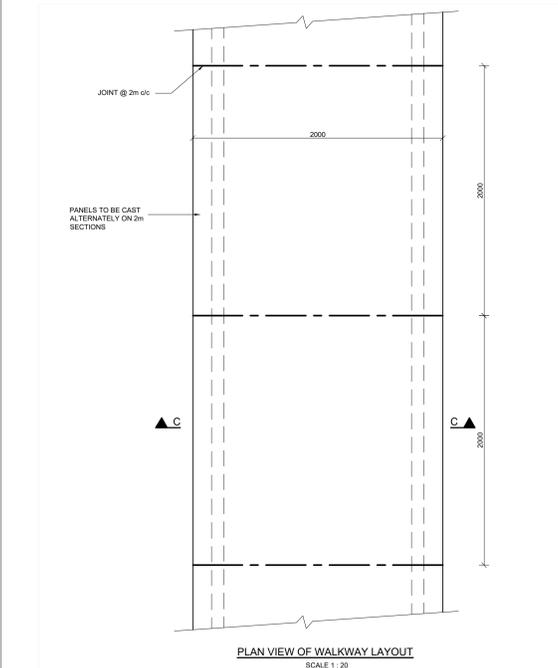
STORMWATER CHANNEL OUTLET DETAIL AT ALL OUTLETS

C

TYPICAL SECTION RETAINING WALL TYPE C

K**J****G**

WATER TANK BASE DETAIL



WALKWAY DETAILS

ORIGINAL SIZE A0

FOR TENDER PURPOSES

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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



CLIENT APPROVED DATE

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5 ST GEORGE'S ROAD SOUTHERWOOD EAST LONDON
TEL: (043) 743 7660/722 2738
FAX: (043) 743 7698
e-mail: ei@camdekoni.co.za

CONSULTANT SIGNATURE DATE

PROJECT TITLE
KWAMATHAMBO - SPS (32863)

DRAWING TITLE
STANDARD DETAILS

SCALE AS SHOWN

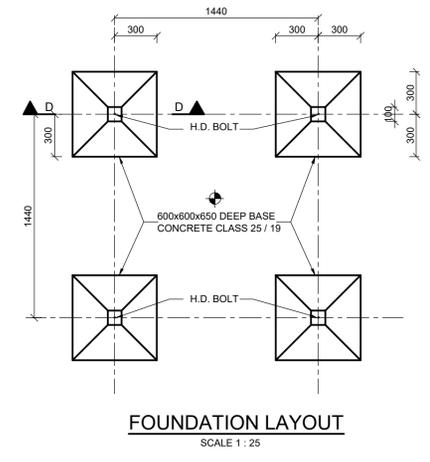
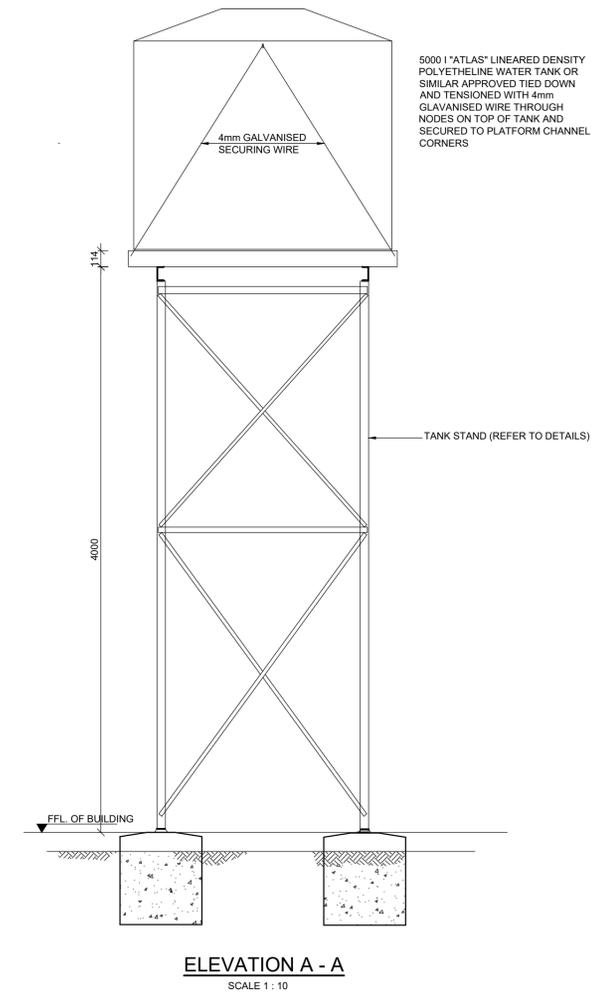
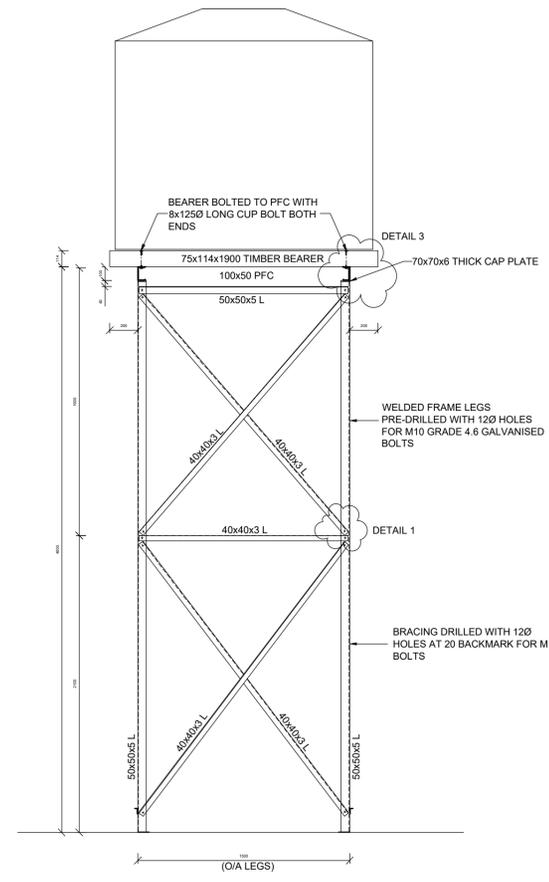
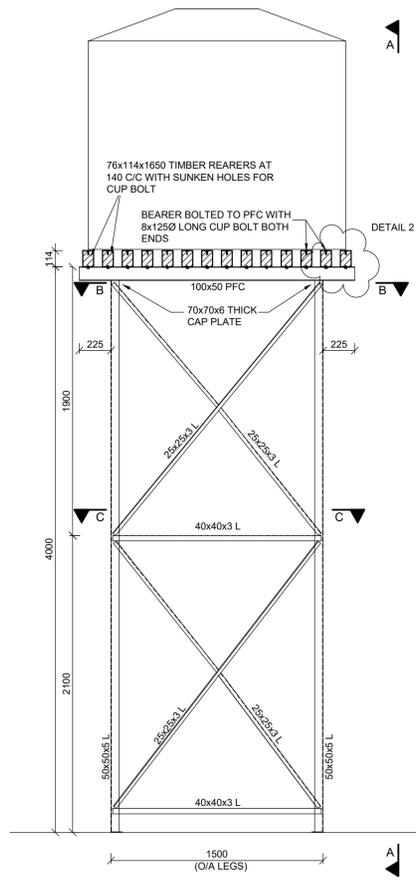
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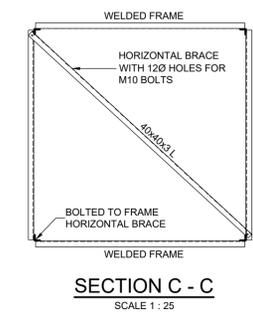
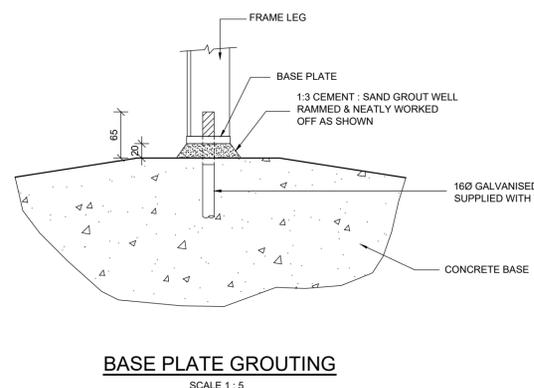
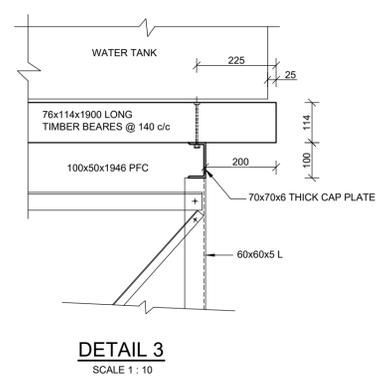
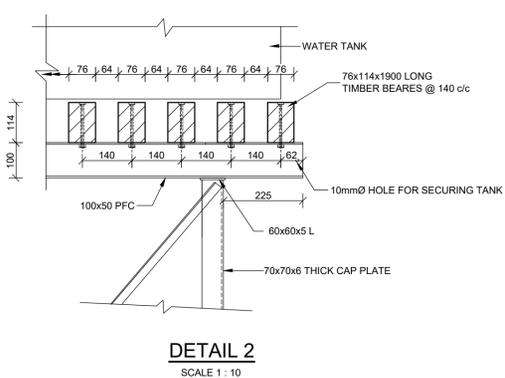
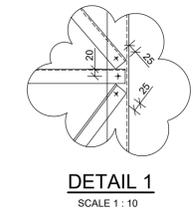
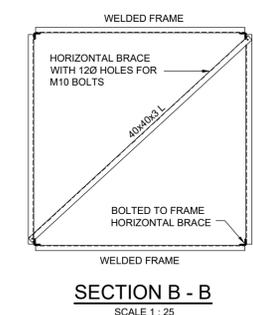
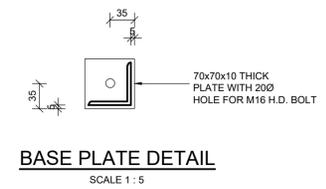
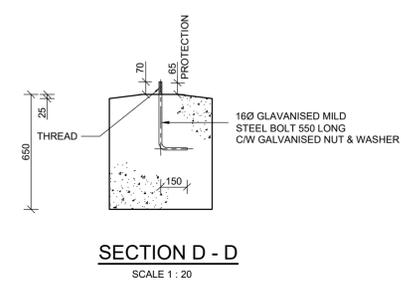
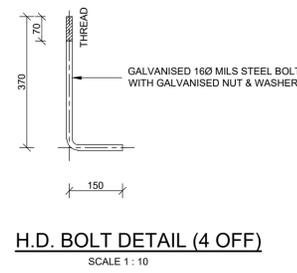
THE COPYRIGHT IN THIS DRAWING, INCLUDING THE DESIGN AND DETAILS SHOWN HEREON, IS RESERVED BY THE ENGINEERS.

NOTES :

NOTE:
 1. TANKSTAND TO BE POSITIONED WHERE SUITABLE NATURAL FOUNDATION MATERIAL IS FOUND AND GROUND LEVEL IS HIGHER, OR MAX 150mm BELOW FFL OF BUILDING, TAKEN AT POINT "X" SHOWN THUS
 2. MIN. BASE SIZES AS SHOWN TO BE ADHERED TO



NOTE:
 1. STEEL TO BE GRADE 300W
 2. STRUCTURAL STEEL TO BE MANUFACTURED IN ACCORDANCE WITH SABS 02143.
 3. ALL WELDING TO BE CONTINUOUS FILLET WELDS.
 4. M10 BOLTS, NUTS & WASHERS TO BE HOT DIP GALVANISED.
 5. TIMBER TO BE C.C.A. (GRADE H3) TREATED SA PINE PAINTED WITH TWO COATS CREOSOTE AFTER ERECTION.
 6. STRUCTURAL STEEL ELEMENTS TO BE HOT DIPPED GALVANISED TO SABS 763. COATING THICKNESS MIN. 80 MICRON.
 7. CUTTING AND WELDING OF ANY STEEL ELEMENTS ON SITE SHALL NOT BE PERMITTED AND WILL RESULT IN REJECTION OF STAND.



ORIGINAL SIZE A1

FOR TENDER PURPOSES

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
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 e-mail: ei@camdekong.co.za

CONSULTANT SIGNATURE	DATE
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PROJECT TITLE
KWAMATHAMBO - SPS (32863)

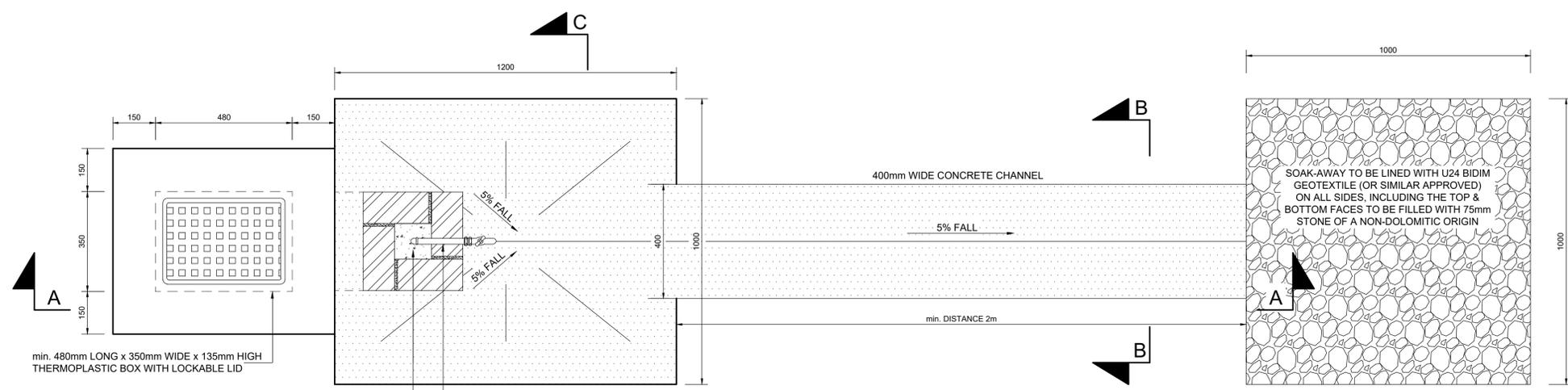
DRAWING TITLE
TANK STAND ARRANGEMENT

SCALE AS SHOWN	REV. 0
DRAWING No. 32863-DET-2	

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

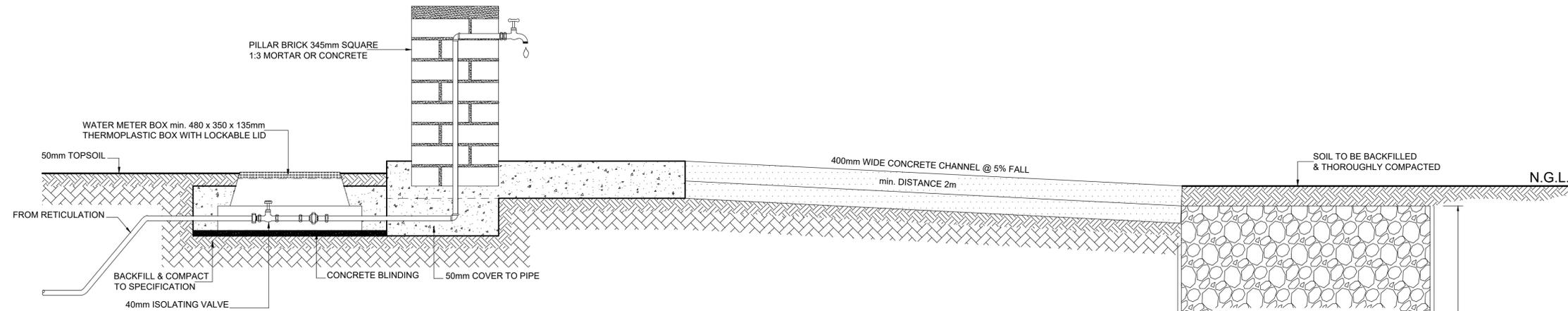
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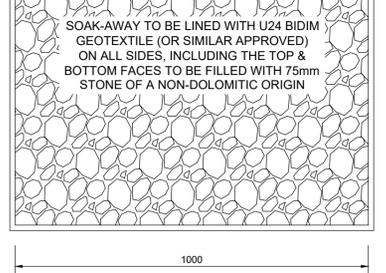


PLAN VIEW
SCALE 1:10

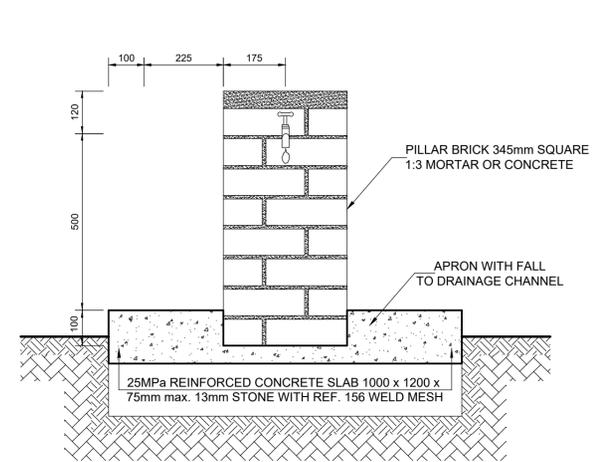
ALTERNATIVE DRAIN TO SOAK-AWAY FROM BUILDING & AT TAPSTANDS



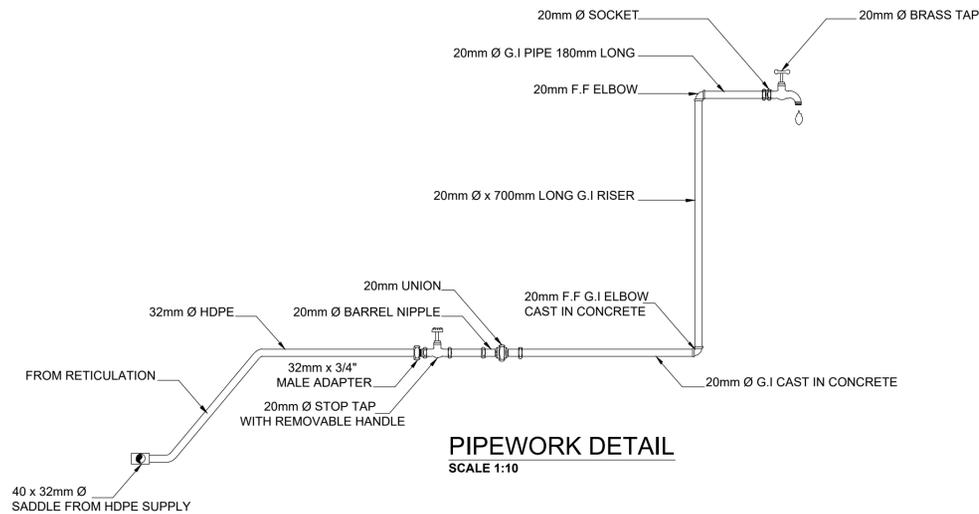
SECTION A - A
SCALE 1:10



SECTION B - B CONCRETE CHANNEL
SCALE 1:5



SECTION C - C
SCALE 1:10



PIPEWORK DETAIL
SCALE 1:10

ORIGINAL SIZE A1

FOR TENDER PURPOSES

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
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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

CLIENT



CLIENT APPROVED	DATE
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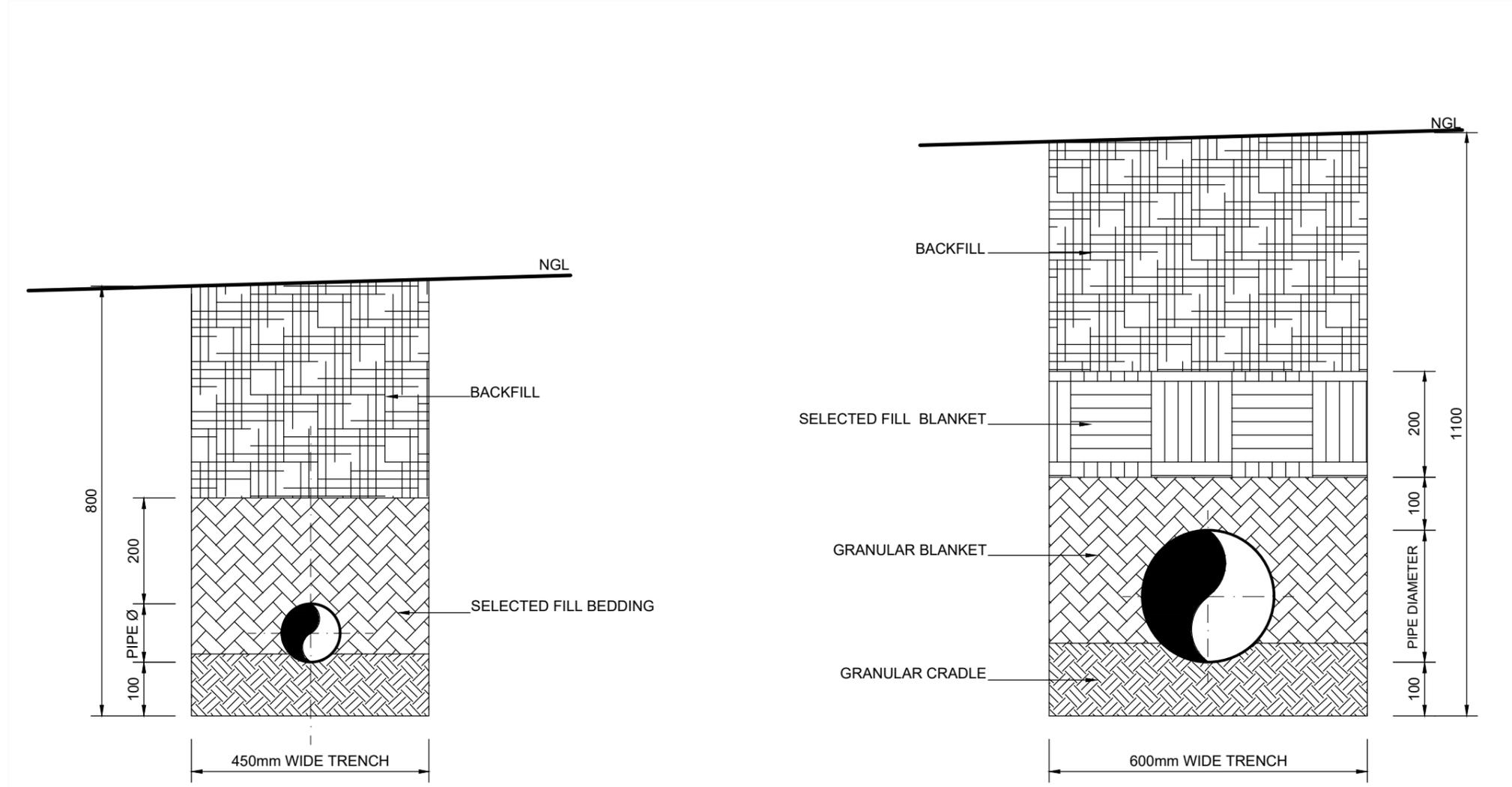
PROJECT TITLE

**KWAMATHAMBO - SPS
(32863)**

DRAWING TITLE

TYPICAL PIPE TRENCH DETAIL

SCALE 1:10	REV. 0
DRAWING NO. 32683-DET-5	



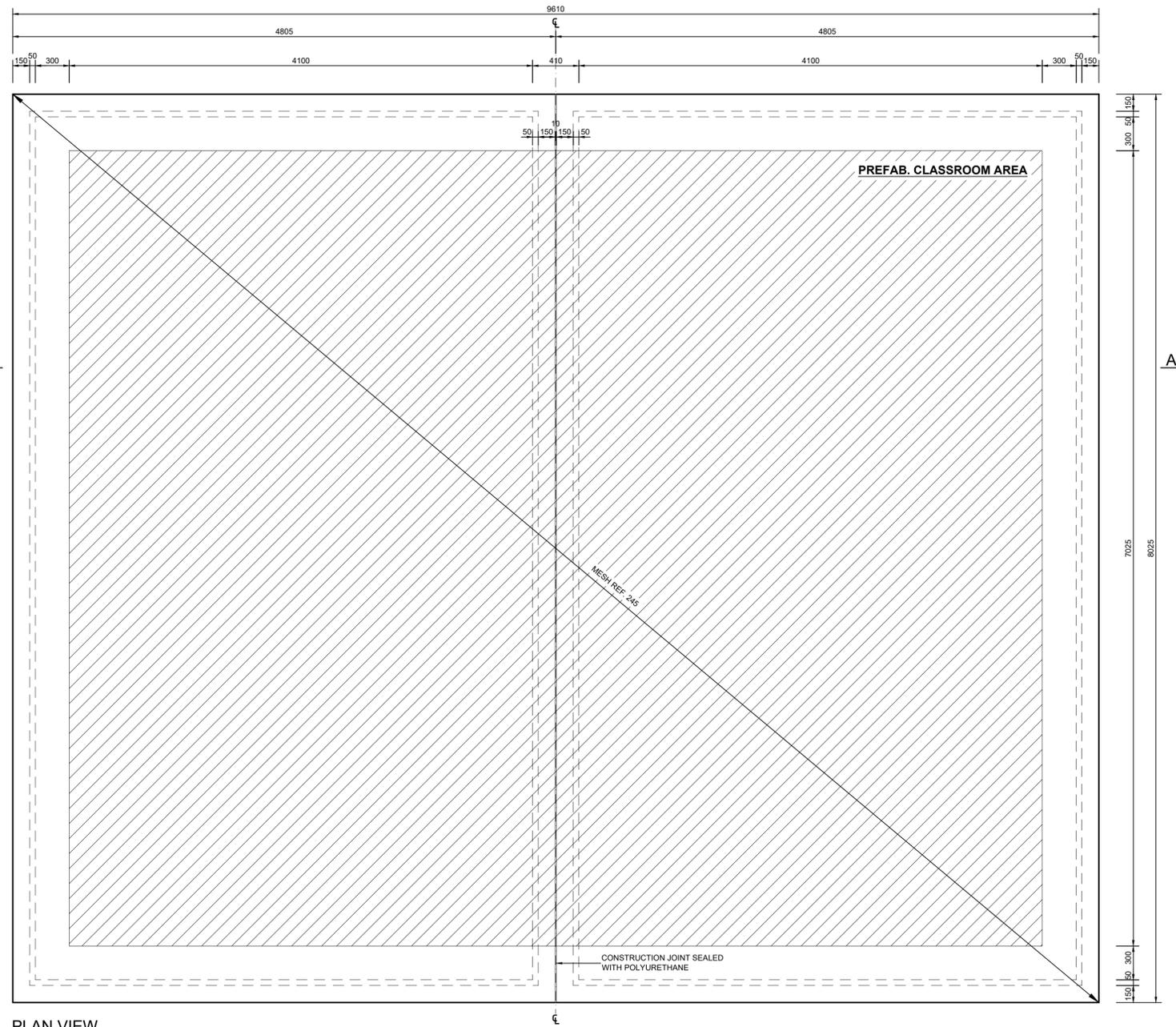
TYPICAL PIPE TRENCHES

ORIGINAL SIZE A3
FOR TENDER PURPOSES

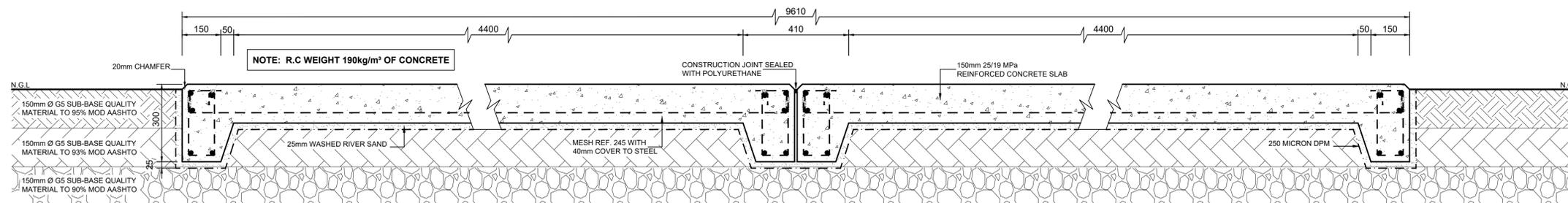
ALL DIMENSIONS AND LEVELS ARE TO BE VERIFIED ON SITE BY THE CONTRACTOR BEFORE COMMENCING ANY WORK.

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NOTES :



PLAN VIEW
SCALE 1:25



SECTION A - A
SCALE 1:10

ORIGINAL SIZE A1
FOR TENDER PURPOSES

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

CLIENT

CLIENT APPROVED _____ DATE _____

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

PROJECT TITLE
KWAMATHAMBO - SPS (32863)

DRAWING TITLE
CLASSROOM REINFORCED CONCRETE SLABS

SCALE AS SHOWN	REV. 0
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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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 - 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 CONSTRUCTIBILITY 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 ADEQUATE BRACING, SHORING AND PROPPING IN ORDER TO KEEP THE BUILDING WORKS AND INDICATIONS STABLE AT ALL TIMES.
 - THE CONTRACTOR IS RESPONSIBLE FOR THE ADEQUACY OF ALL TEMPORARY WORKS INCLUDING SHORING, PROPPING AND BRACING AND WHERE NECESSARY TO EMPLOY 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 INDICATION, FORMWORK, REINFORCEMENT, MEMBRANES AND 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
 - ALL CONCRETE SHALL COMPLY WITH SANS 1200G.
 - COMPRESSIVE STRENGTH GRADES:
 - * UNREINFORCED STRIP FOOTINGS - 15/19
 - * REINFORCED STRIP FOOTINGS - 25/19
 - * RETAINING WALL FOOTINGS - 25/19
 - * BASES - 25/19
 - * SURFACE BED - 30/19
 - * COLUMNS - 30/19
 - * SLABS AND BEAMS - 25/19
 - CONCRETE PROFILES
 - SIZES OF CONCRETE ELEMENTS DO NOT INCLUDE THICKNESS OF APPLIED FINISHES.
 - 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.
 - CONSTRUCTION JOINTS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE TO THE WRITTEN APPROVAL OF THE ENGINEER.
 - COMPACT ALL CONCRETE, INCLUDING FOOTINGS AND SURFACE SLABS, WITH MECHANICAL VIBRATORS.
 - ALL CONCRETE TO BE CURED.
 - SLIP JOINTS TO BE USED ON ALL LOAD-BEARING MASONRY WALLS BENEATH CONCRETE SLABS.
 - BRICKS USED IN LOAD-BEARING CONSTRUCTION SHOULD HAVE A MINIMUM COMPRESSIVE STRENGTH OF 14MPa.
 - 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 APPROVED _____ DATE _____

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CONSULTANT SIGNATURE _____ DATE _____

PROJECT TITLE

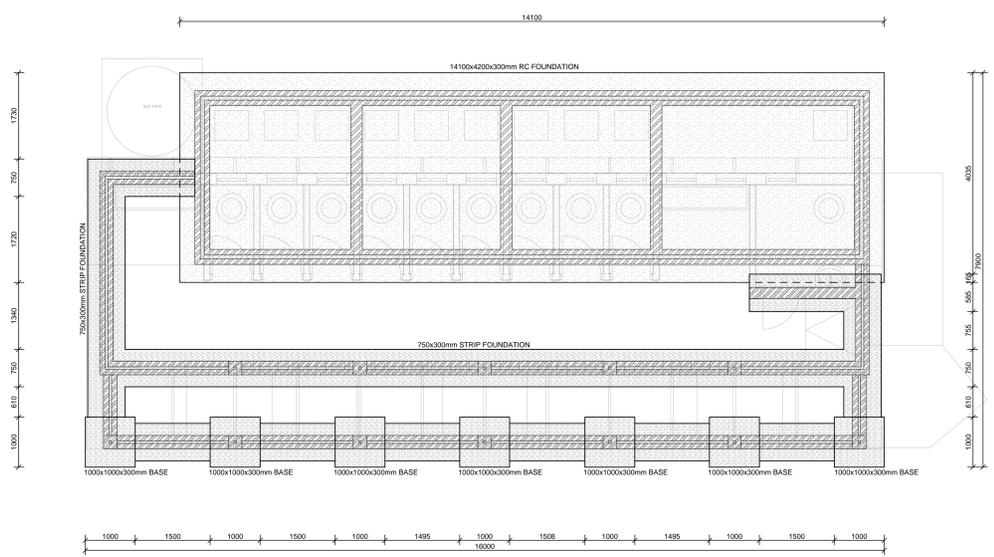
KWAMANTHAMBO (32863)

DRAWING TITLE

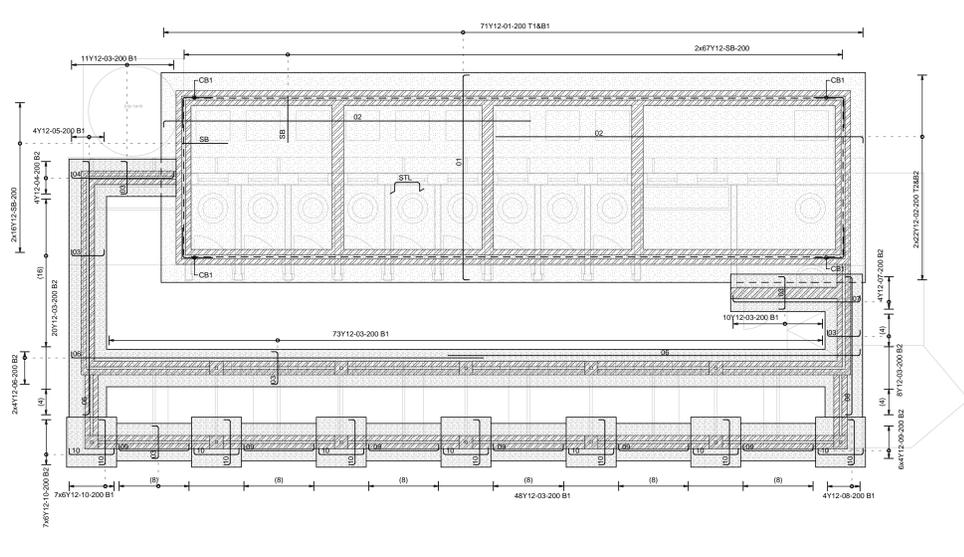
ABLUTIONS LAYOUT AND REINFORCEMENT

SCALE AS SHOWN

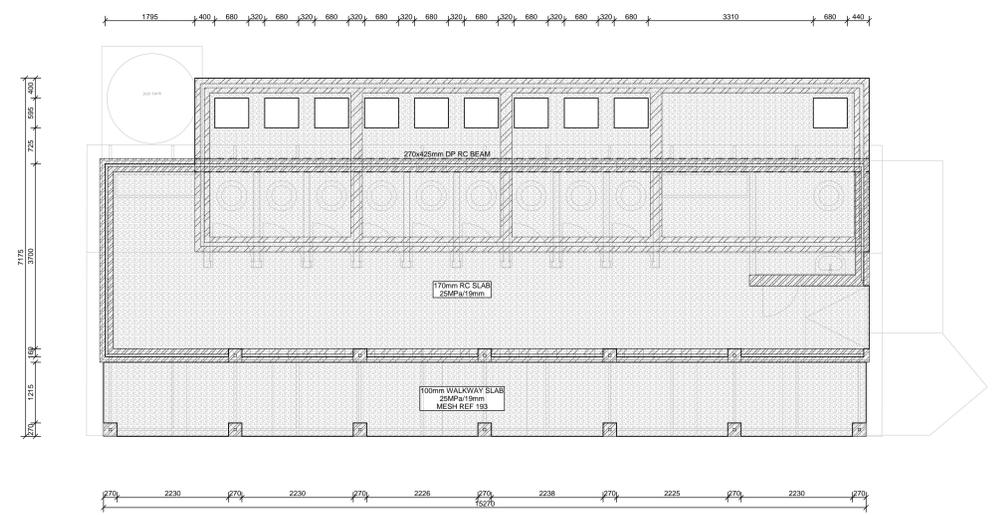
DRAWING No. 32863-STR-2 REV. 0



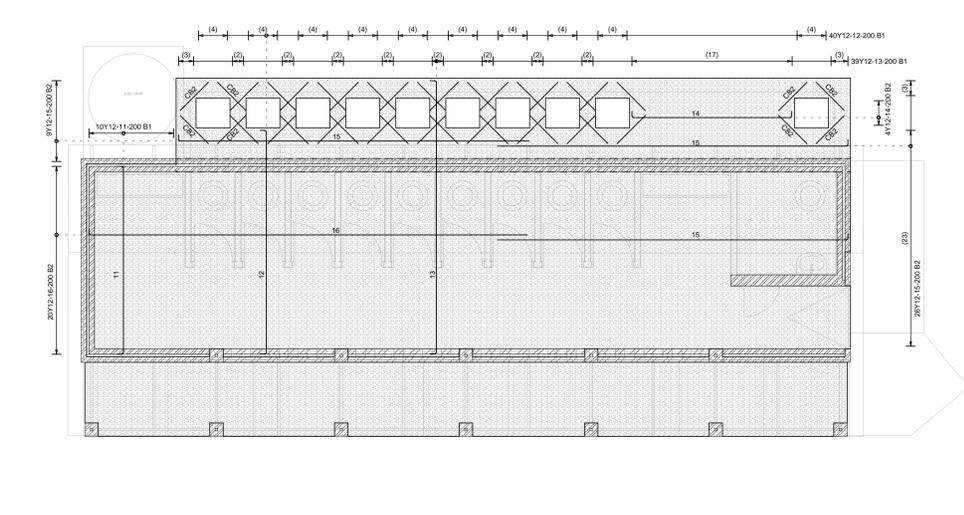
FOUNDATION LAYOUT
SCALE 1:50



FOUNDATION REINFORCEMENT
SCALE 1:50

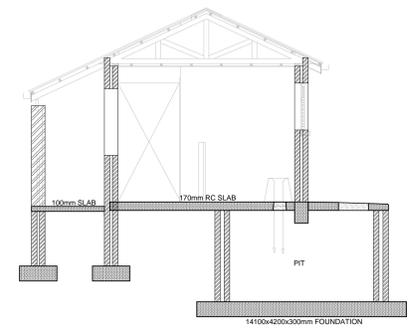


SLAB LAYOUT
SCALE 1:50

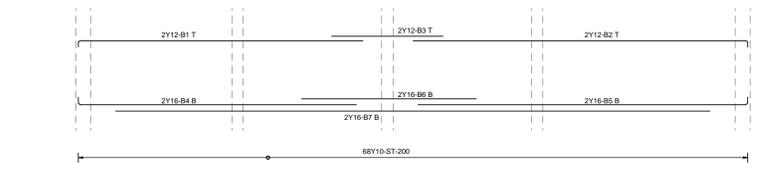


SLAB REINFORCEMENT
SCALE 1:50

MEMBER	No OF	BARS PER MEMB	DIA	LENGTH	TOTAL NUM-BER	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	63	500		175	100			
		36	Y12	1200	36	CB1	37	600						
	SLAB	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					
		4	Y12	2050	4	08	35	2760						
		24	Y12	1600	24	09	35	1400						
		84	Y12	1100	84	10	35	900						
BEAM		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							
		2	Y12	8800	2	B1	34	5700						
		2	Y12	6800	2	B2	34	5700						
		2	Y12	2200	2	B3	20							
	2	Y16	5700	2	B4	34	5570							
	2	Y16	6700	2	B5	34	6600							
	2	Y16	3500	2	B6	20								
	2	Y16	11900	2	B7	20								
	68	Y10	1100	68	ST	60	170	320						
R	8	10	12	16	20	25	32	40	TOT	Date				
Y	46	2823	88						2957	Det. by				
TOT	46	2823	88						2957	Ref Dwg				
									2957	Job No				

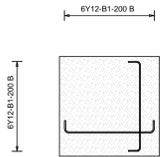


SECTION
SCALE 1:50

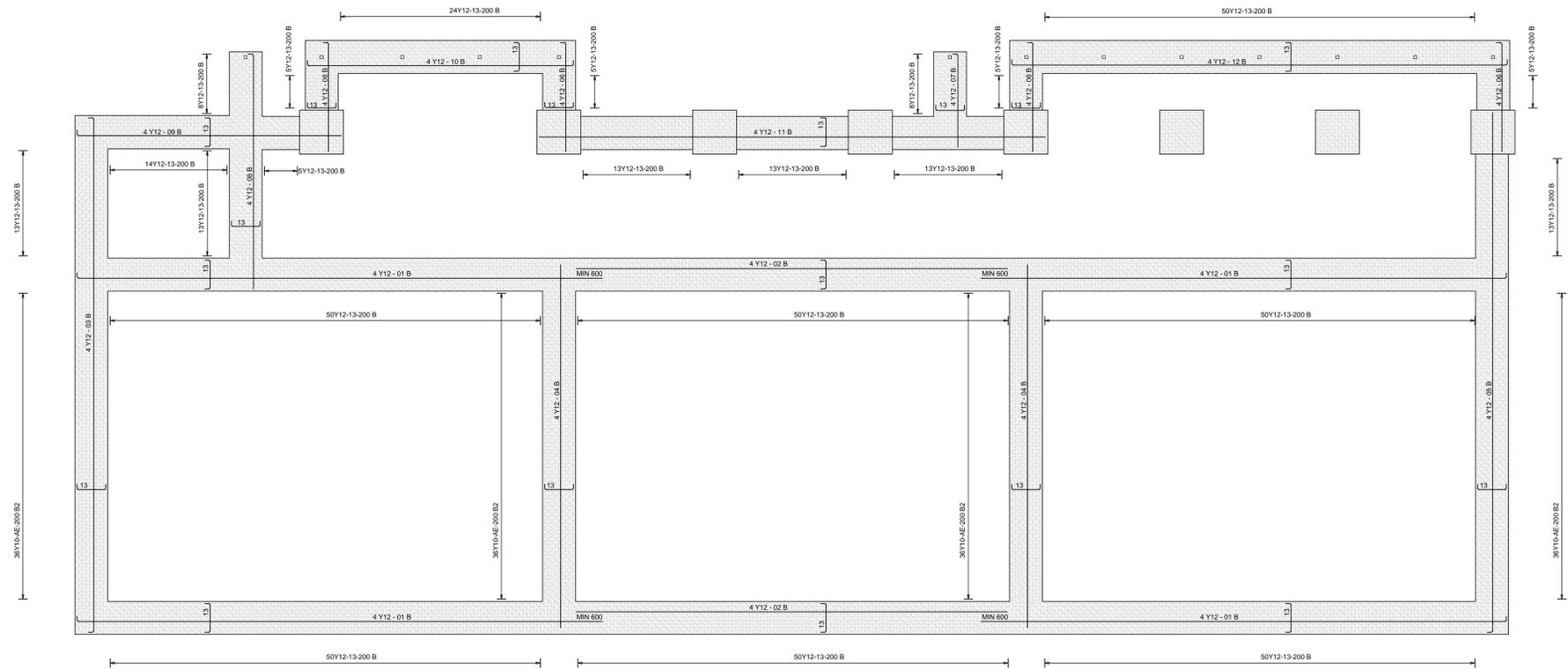


BEAM REINFORCEMENT
SCALE 1:50

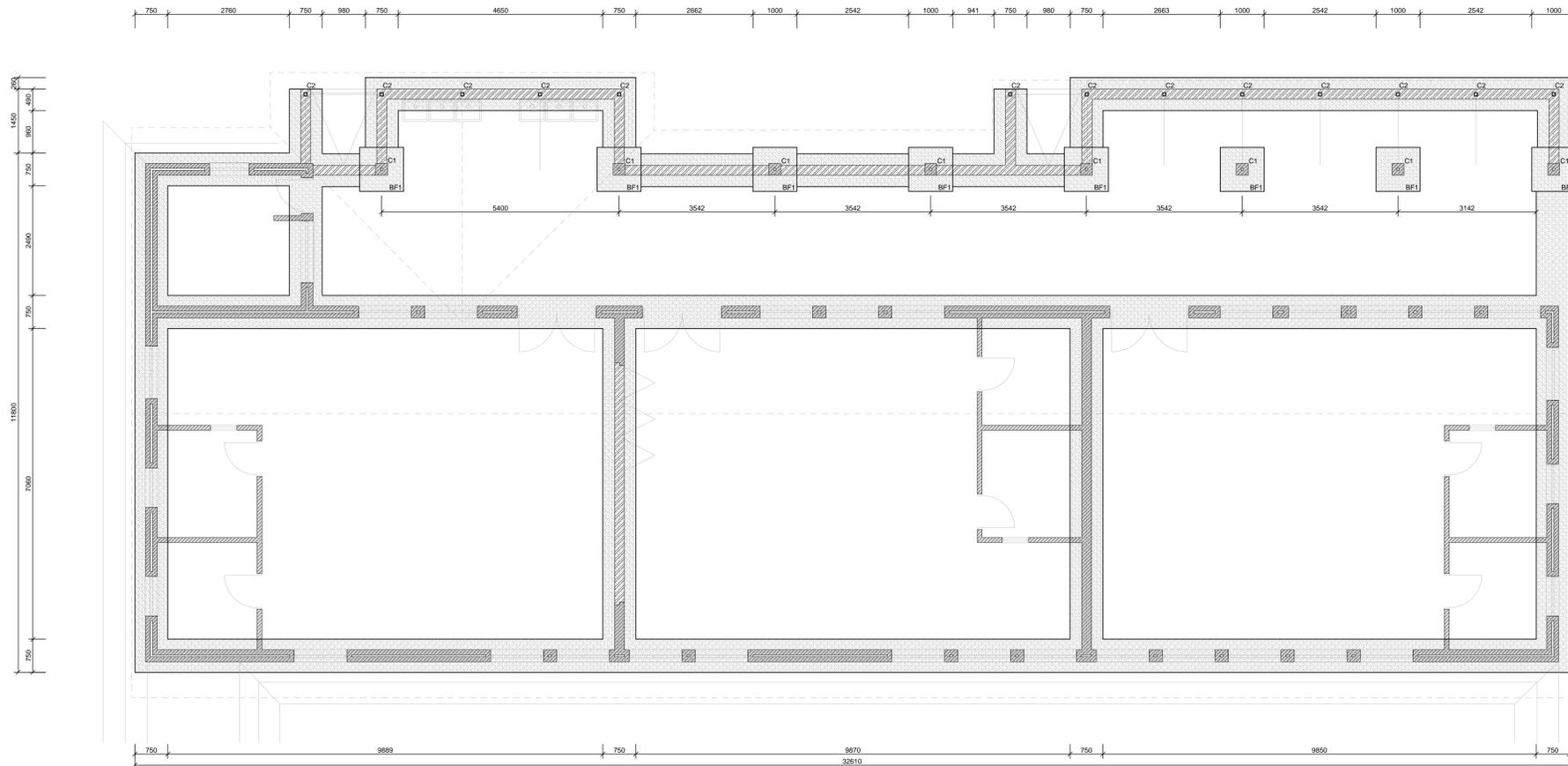
MEMBER	No OF	BARS PER MEMB	DIA.	LENGTH	TOTAL NUM-BER	MARK	S C	BENDING							
								A	B	C	D	E/r			
BASE	8	6	Y12	1100	48	B1	35	900							
FOOTING	16	Y12	12050	16	1	34	11950								
	4	Y12	3900	4	2	20									
	4	Y12	11900	4	3	35	11700								
	8	Y12	8250	8	4	20	11820								
	4	Y12	11950	4	5	34									
	16	Y12	2600	16	6	34	2480								
	4	Y12	2250	4	7	34	2120								
	4	Y12	5450	4	8	34	5340								
	4	Y12	6100	4	9	34	6010								
	4	Y12	6250	4	10	35	6050								
	4	Y12	11500	4	11	20									
	4	Y12	11500	4	12	35	11270								
	651	Y12	350	651	13	35	650								
R	8	10	12	16	20	25	32	40	TOT	Date					
Y									1077	Det. by					
TOT									1077	Ref Dwg					
									1077	Job No					



BASE REINFORCEMENT NO. OF 8



FOUNDATION & BASES REINFORCEMENT LAYOUT SCALE 1:50



FOUNDATION LAYOUT SCALE 1:50

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- CONCRETE NOTES:
- CONCRETE QUALITY
 - 1.1 ALL CONCRETE SHALL COMPLY WITH SANS 1200G.
 - COMPRESSIVE STRENGTH GRADES:
 - * UNREINFORCED STRIP FOOTINGS - 15/19
 - * REINFORCED STRIP FOOTINGS - 25/19
 - * 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.
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 - 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	
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CLIENT APPROVED	DATE
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 e-mail: ei@camdekon.co.za

CONSULTANT SIGNATURE	DATE
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PROJECT TITLE
KWAMANTHAMBO (32863)

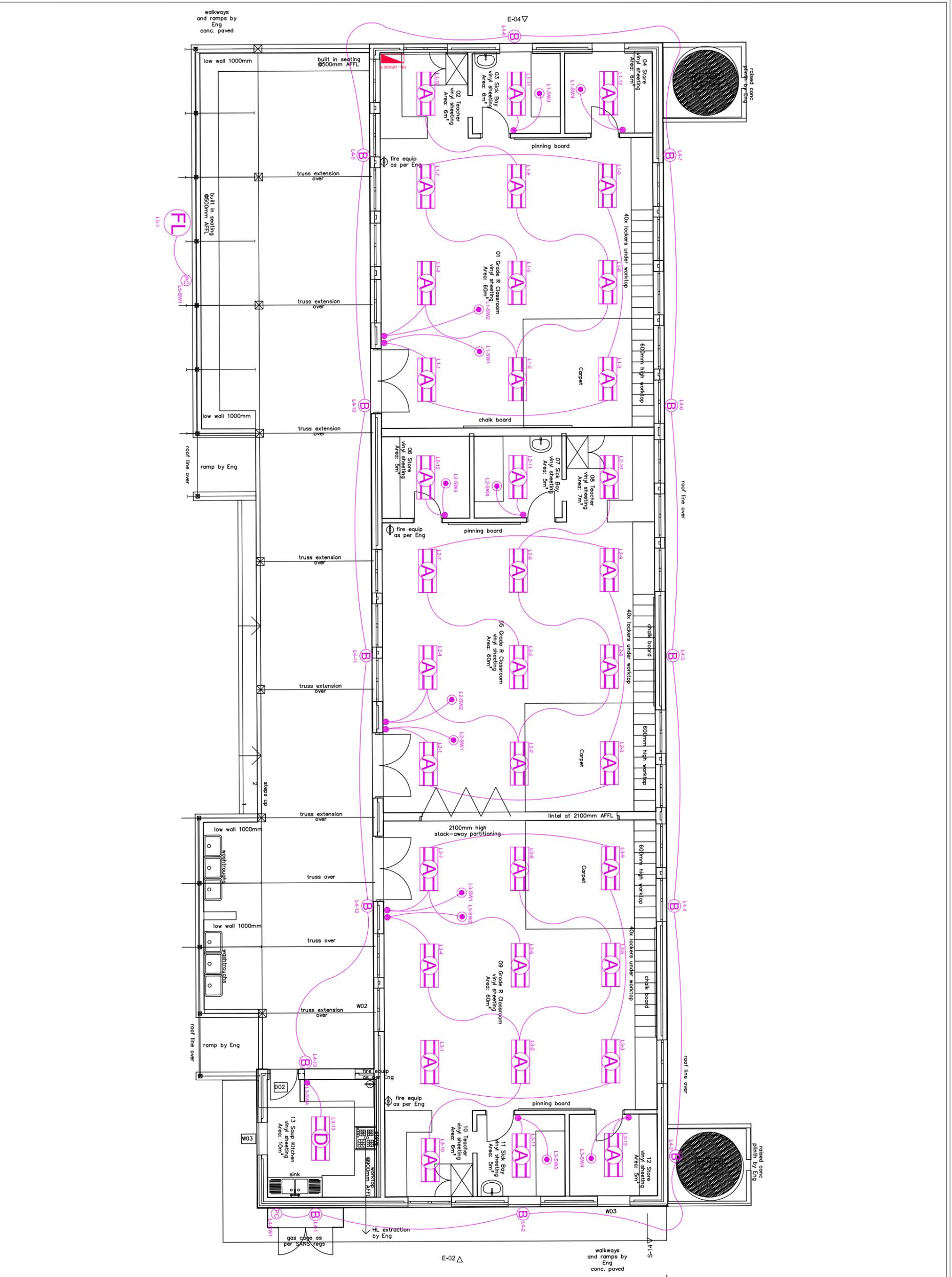
DRAWING TITLE
 CLASSROOM LAYOUT AND REINFORCEMENT

SCALE	AS SHOWN	REV.	0
DRAWING No.	32863-STR-1		

BASE SCHEDULE		
BASE MARK	NUMBER OF	SIZE
FB1		1000x1000x300

COLUMN SCHEDULE		
COLUMN MARK	NUMBER OF	SIZE
C1		270x270
C2		75x75x3.0 SHS

RC FOOTING 750x300mm DP 25MPa/19mm
 SURFACE BED 100mm THICK 30MPa/19mm
 WITH REF. 193 MESH



NO.	SYMBOL	DESCRIPTION
1	(Symbol)	2000mm x 1000mm DOWNLIGHT, 1x2000WATT
2	(Symbol)	2000mm x 1000mm DOWNLIGHT, 1x2000WATT
3	(Symbol)	2000mm x 1000mm DOWNLIGHT, 1x2000WATT
4	(Symbol)	2000mm x 1000mm DOWNLIGHT, 1x2000WATT
5	(Symbol)	2000mm x 1000mm DOWNLIGHT, 1x2000WATT
6	(Symbol)	2000mm x 1000mm DOWNLIGHT, 1x2000WATT
7	(Symbol)	2000mm x 1000mm DOWNLIGHT, 1x2000WATT
8	(Symbol)	2000mm x 1000mm DOWNLIGHT, 1x2000WATT
9	(Symbol)	2000mm x 1000mm DOWNLIGHT, 1x2000WATT
10	(Symbol)	2000mm x 1000mm DOWNLIGHT, 1x2000WATT
11	(Symbol)	2000mm x 1000mm DOWNLIGHT, 1x2000WATT
12	(Symbol)	2000mm x 1000mm DOWNLIGHT, 1x2000WATT
13	(Symbol)	2000mm x 1000mm DOWNLIGHT, 1x2000WATT
14	(Symbol)	2000mm x 1000mm DOWNLIGHT, 1x2000WATT
15	(Symbol)	2000mm x 1000mm DOWNLIGHT, 1x2000WATT
16	(Symbol)	2000mm x 1000mm DOWNLIGHT, 1x2000WATT
17	(Symbol)	2000mm x 1000mm DOWNLIGHT, 1x2000WATT
18	(Symbol)	2000mm x 1000mm DOWNLIGHT, 1x2000WATT
19	(Symbol)	2000mm x 1000mm DOWNLIGHT, 1x2000WATT
20	(Symbol)	2000mm x 1000mm DOWNLIGHT, 1x2000WATT
21	(Symbol)	2000mm x 1000mm DOWNLIGHT, 1x2000WATT
22	(Symbol)	2000mm x 1000mm DOWNLIGHT, 1x2000WATT
23	(Symbol)	2000mm x 1000mm DOWNLIGHT, 1x2000WATT
24	(Symbol)	2000mm x 1000mm DOWNLIGHT, 1x2000WATT
25	(Symbol)	2000mm x 1000mm DOWNLIGHT, 1x2000WATT
26	(Symbol)	2000mm x 1000mm DOWNLIGHT, 1x2000WATT
27	(Symbol)	2000mm x 1000mm DOWNLIGHT, 1x2000WATT
28	(Symbol)	2000mm x 1000mm DOWNLIGHT, 1x2000WATT
29	(Symbol)	2000mm x 1000mm DOWNLIGHT, 1x2000WATT
30	(Symbol)	2000mm x 1000mm DOWNLIGHT, 1x2000WATT
31	(Symbol)	2000mm x 1000mm DOWNLIGHT, 1x2000WATT
32	(Symbol)	2000mm x 1000mm DOWNLIGHT, 1x2000WATT
33	(Symbol)	2000mm x 1000mm DOWNLIGHT, 1x2000WATT
34	(Symbol)	2000mm x 1000mm DOWNLIGHT, 1x2000WATT
35	(Symbol)	2000mm x 1000mm DOWNLIGHT, 1x2000WATT
36	(Symbol)	2000mm x 1000mm DOWNLIGHT, 1x2000WATT
37	(Symbol)	2000mm x 1000mm DOWNLIGHT, 1x2000WATT
38	(Symbol)	2000mm x 1000mm DOWNLIGHT, 1x2000WATT
39	(Symbol)	2000mm x 1000mm DOWNLIGHT, 1x2000WATT
40	(Symbol)	2000mm x 1000mm DOWNLIGHT, 1x2000WATT
41	(Symbol)	2000mm x 1000mm DOWNLIGHT, 1x2000WATT
42	(Symbol)	2000mm x 1000mm DOWNLIGHT, 1x2000WATT
43	(Symbol)	2000mm x 1000mm DOWNLIGHT, 1x2000WATT
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46	(Symbol)	2000mm x 1000mm DOWNLIGHT, 1x2000WATT
47	(Symbol)	2000mm x 1000mm DOWNLIGHT, 1x2000WATT
48	(Symbol)	2000mm x 1000mm DOWNLIGHT, 1x2000WATT
49	(Symbol)	2000mm x 1000mm DOWNLIGHT, 1x2000WATT
50	(Symbol)	2000mm x 1000mm DOWNLIGHT, 1x2000WATT

CLIENT: Province of the EASTERN CAPE EDUCATION

IMPLEMENTING AGENT: idt

ARCHITECTS: Osmond Lange Architects and Partners (Pty) Ltd East London
 Address: Plot 1061/1062, Keena, 5214
 Phone: 031 271 0038
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 Email: info@olap.co.za

ELECTRICAL ENGINEERS: CARIFRO, CESA

PROJECT TITLE: KWAMATHAMBO SP SCHOOL

DRAWING TITLE: KWAMATHAMBO SP SCHOOL GRADE R LIGHTING LAYOUT

DESIGNED BY: T.S. **DRAWN BY:** T.S. **APPROVED BY:** S.P.

SCALE: NTS **COPYRIGHT:** RESERVED **DATE:** JAN 2017

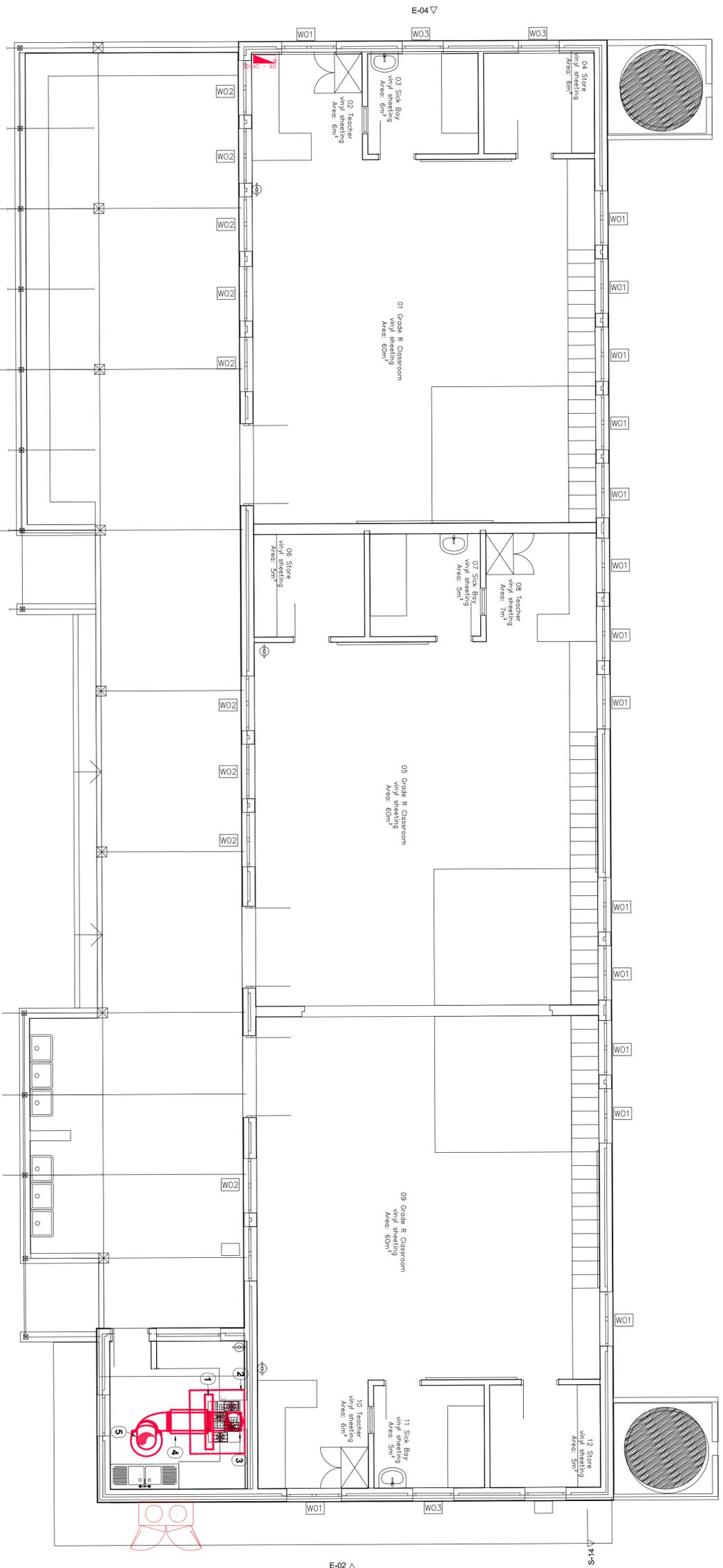
DRAWING FILE NAME: GRADE R CLASSROOMS **REV:** 0

SHEET NO.: CAR16E/1654/KSPS/002E **SIZE:** A3

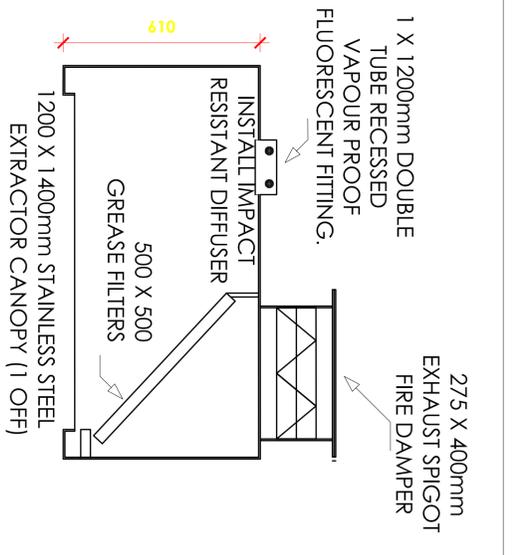
PROJECT STATUS: TENDER

PROJECT STATUS: TENDER

EQUIPMENT SCHEDULE				
NO	QTY	DESCRIPTION	SIZE	CAPACITY
1	1	VAPOUR PROOF FLUORESCENT LIGHT FITTING	1200	72 watts
2	1	STAINLESS STEEL KITCHEN EXTRACTOR CANOPY	(1200 X 1400 X 610) 1 OFF	
3	1	EXHAUST SPIGOT	275 X 400	0.66
4	1	SOUND ATTENUATOR	400 dba	0.66
5	1	MIKED FLOW ROOF EXTRACTOR FAN	400	0.66M3S @ 350 Pa



FLOOR PLAN
NTS



Extraction Canopy Detail
NTS

No.	Date	By	Description

CLIENT:

Province of the
EASTERN CAPE
EDUCATION

IMPLEMENTING AGENT:

ARCHITECTS:

idT
INDEPENDENT DEVELOPMENT TRUST

ARCHITECTS:

Osmond Lange Architects and
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Address: Pletstroom, The Quarry
Selborne, East London
(043) 21 0033
(043) 21 0038
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MECHANICAL ENGINEERS:

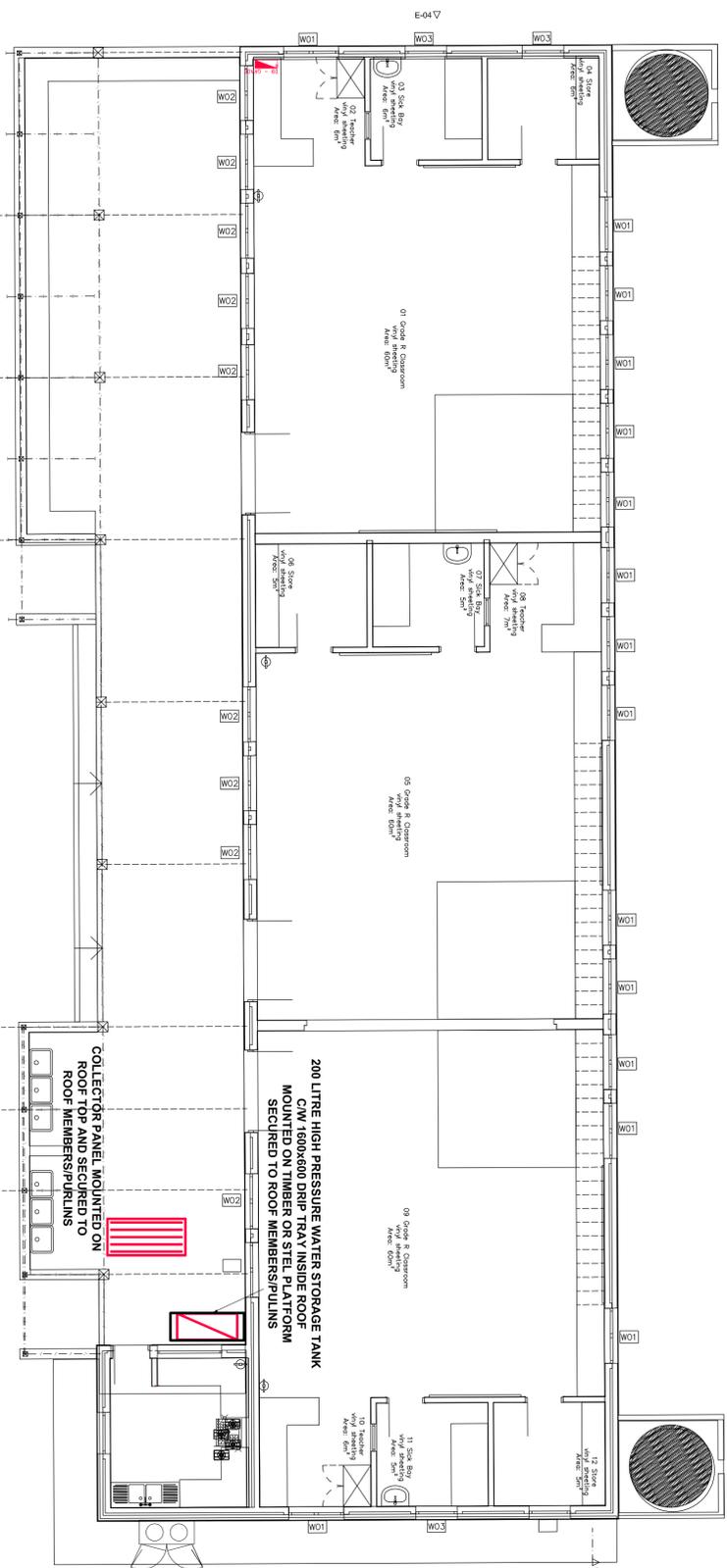
CARIFRO
CESA
S.A. ENGINEERING CONSULTANTS

PROJECT TITLE: ED and DDC Pletstroom School Program - 2016/17 FY
NEW LEARN CHILDHOOD DEVELOPMENT CENTRE TO
KWAMATAMBO
SP SCHOOL
Nqunzulu, Luthuli, Eastern Cape
EAMS: 200 500 373

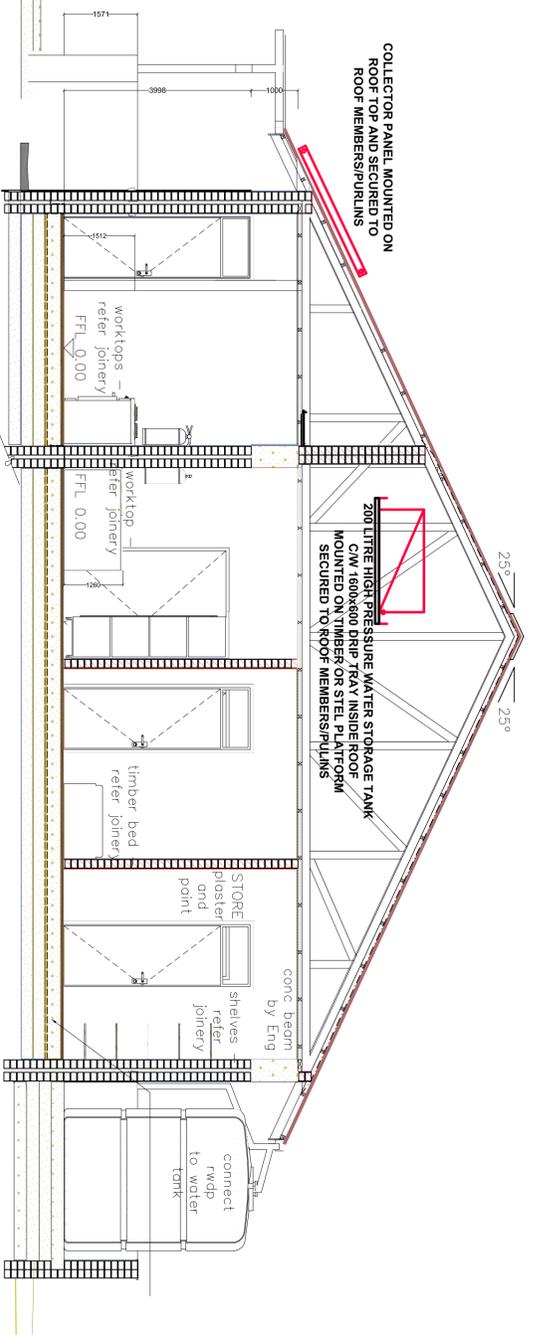
DRAWING TITLE:
KWAMATHAMBO SP SCHODL
KITCHEN EXTRACTION SYSTEM
FLOOR PLAN

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

PROJECT STATUS: TENDER



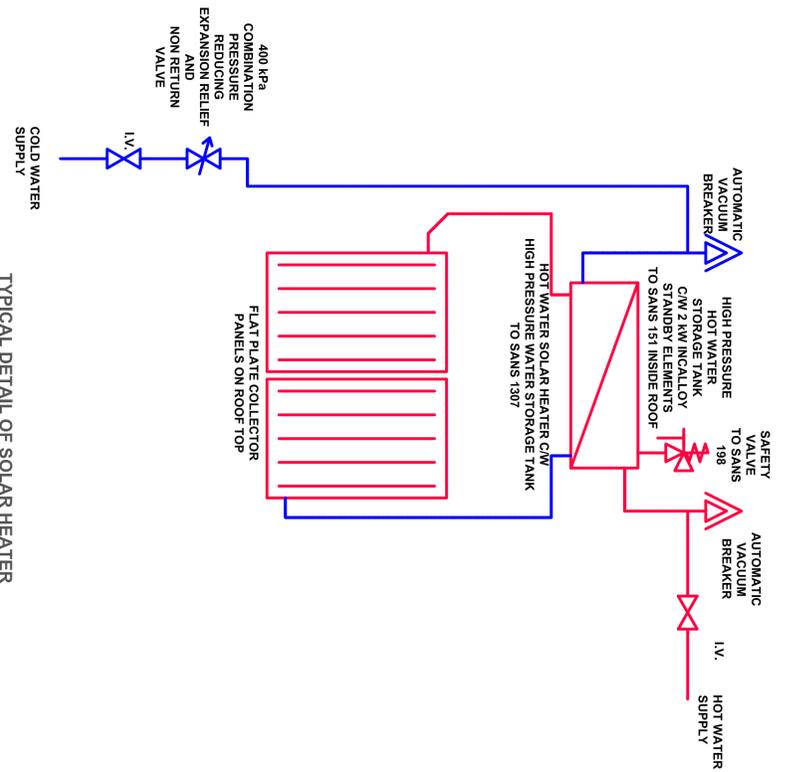
PLAN VIEW
SCAFFOLDS



SECTIONS: SOUP KITCHEN
SCAFFOLDS

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.



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

No.	Date	By	Description

CLIENT

Province of the
EASTERN CAPE
EDUCATION

IMPLEMENTING AGENT

Independent Electoral Commission

ARCHITECTS

Osmond Lange Architects and
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Suburb: East London
Tel: 0487 21 0033
Fax: 0487 21 0034
Email: info@ol.co.za

MECHANICAL ENGINEERS

CARIFRO
CESA

PROJECT TITLE: UP AND GOE Ruvandeni School Region - 2016/17/18
NEW LEADY CHURCH/GOVERNMENT CENTER 10
**KWAMATAMBO
SP SCHOOL**
Region:18, Lomaxo, Eastern Cape
EMIS: 200 500 373

DRAWING TITLE:
**KWAMATAMBO SP SCHOOL
SOLAR HOT WATER STORAGE
GENERATING SYSTEMS**

DESIGNED: MR	DRAWN: J.T	APPROVED: MR
SCALE: NTS	COPYRIGHT RESERVED	DATE: Feb 2017
DRAWING FILE NAME: SOLAR HOT WATER STORAGE GENERATING SYSTEMS	REV: 0	SIZE: A1
SHEET NO: CAR16M/1554/KSPS/001HW	SIZE: A1	

PROJECT STATUS: **TENDER**

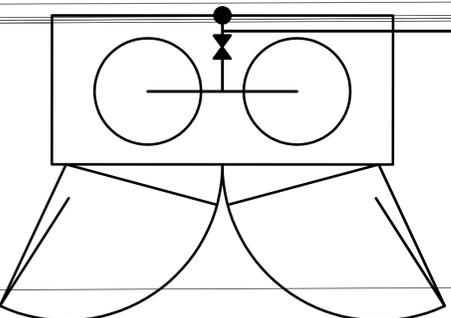
VERSION: 1.0

vinyl sheeting
Area: 5m²

200 (3/4) LPG
grade copper
tube fixed to wall

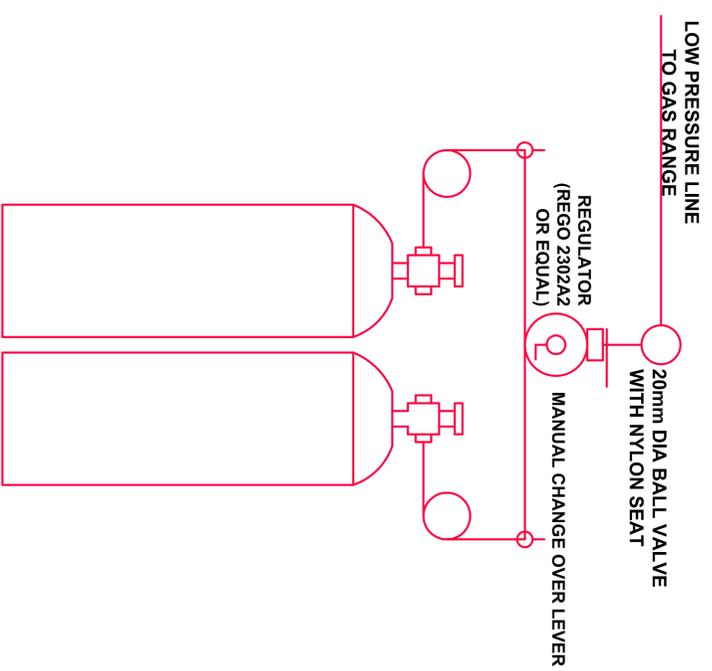
Shut off
Valve

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.

No.	Date	By	Description

CLIENT:



IMPLEMENTING AGENT:



ARCHITECTS:



MECHANICAL ENGINEERS:



PROJECT TITLE: IDP and DOE Feedlot Schools Program - 2016/17/18
NEW DASH/CHILDRON DEVELOPMENT CENTRE TO KWAMATAMBO SP SCHOOL
Nelson Mandela, Langa, East London
EMMS: 200 500 373

DRAWING TITLE: KWAMATHAMBO SP SCHOOL LIQUEFIED PETROLEUM GAS INSTALLATION FLOOR PLAN

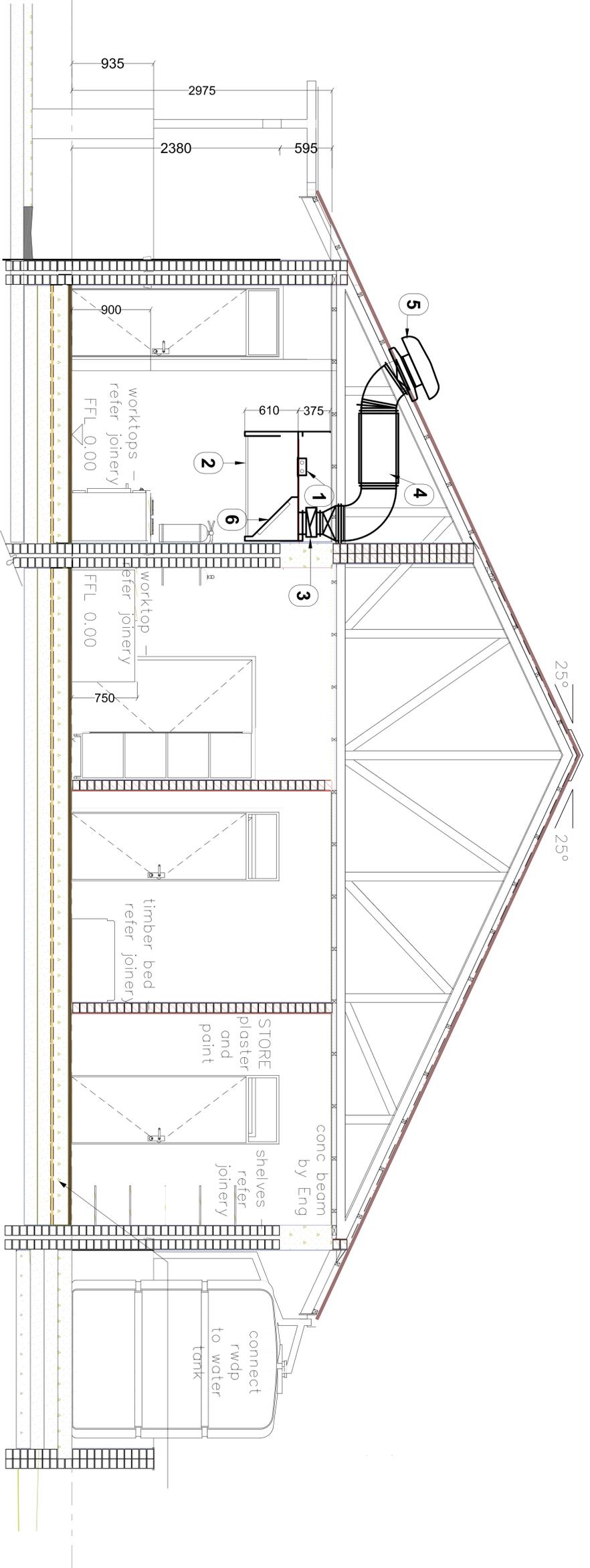
DESIGNED: M.R. DRAWN: J.T. APPROVED: M.R.
SCALE: NTS. REVISIONS: DATE: Feb 2017
DRAWING FILE NAME: REV: 0
LIQUEFIED PETROLEUM GAS INSTALLATION FLOOR PLAN SIZE: A1

SHEET NO: CAR16M/1654/KSPS/001LPG A1

PROJECT STATUS: TENDER

VERSION: 0.0

EQUIPMENT SCHEDULE				
NO	QTY	DESCRIPTION	SIZE	CAPACITY
1	1	VAPOUR PROOF FLUORESCENT LIGHT FITTING	(1200 X 1400 X 610) 1 OFF	0.66
2	1	STAINLESS STEEL KITCHEN EXTRACTOR CANOPY	275 X 400	0.66
3	1	EXHAUST SPRIGOT	1200	72 watts
4	1	SOUND ATTENUATOR	400 dia	0.66
5	1	MIXED FLOW ROOF EXTRACTOR FAN	400	0.66WATS @ 350 Pa
6	1	S/S GREASE FILTERS	500 x 500mm	



SECTIONS: SOUP KITCHEN
SCALE: NTS

No.	Date	By	Description

CLIENT:

Province of the
EASTERN CAPE
EDUCATION

IMPLEMENTING AGENT:

Independent Electoral Commission

ARCHITECTS:

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Fax: 0487 21 0034
E: info@olpa.co.za
O: olpa@olpa.co.za

MECHANICAL ENGINEERS:

CARIFRO (South African Refrigeration Contractors Association)
CESA (Central Engineering Society of Africa)

PROJECT TITLE: UP and OPE Pavilion School Program - 2016/17/18
NEW EARLY CHILDHOOD DEVELOPMENT CENTRE 10
KWAMATAMBO
SP SCHOOL
Ngqweni, Lomaxa, Eastern Cape
EMIS: 200 500 373

DRAWING TITLE:
KWAMATHAMBO SP SCHEDL
KITCHEN EXTRACTIION SYSTEM
SECTIONS

DESIGNED: M.R.	DRAWN: J.T.	APPROVED: M.R.
SCALE: NTS	COPYRIGHT RESERVED: F.e.b. 2017	DATE: 06/2017
DRAWING FILE NAME: KITCHEN EXTRACTION SYSTEM SECTIONS	REV: 0	SIZE: A1
SHEET NO: CAR16M/1654/KSPS/002CAN		
PROJECT STATUS: TENDER		

VERSION: 1.0