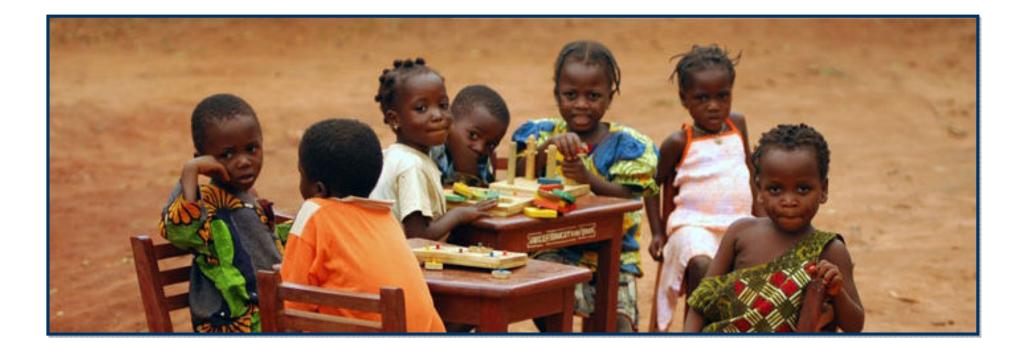
Early Childhood Development Centre

Design Proposal - January 2015 Prepared by Niall Fitzgerald Student Architect DIT Bolton Street





Action Ireland Trust are delighted to work with Unicef and The Ministry for Education and Training Lesotho on a project for the establishment of Early Childhood Development Centers (ECDC). This presentation document is for all parties to the project to consider as a draft to possible designs. The document explores possible features and concepts that can be delivered in a cost effective way and simultaneously provide a learning and teaching environment that will cater for the needs of children in early childhood education. This document was prepared by Niall FitzGerald student architect DIT in consultation with Fran Whelan Architect and CEO Action Ireland Trust and Niall FitzGerald Chairman Action Ireland Trust.





Introduction

Children are the foundation of sustainable development. The early years of life are crucial not only for individual health and physical development, but also for cognitive and socialemotional development. Events in the first few years of life are formative and play a vital role in building human capital, breaking the cycle of poverty, promoting economic productivity, and eliminating social disparities and inequities.

UNICEF works with governments, civil society, communities and other stakeholders to design and implement inter-sectoral evidence-based ECD programmes and policies that help young children reach their full potential by supporting families and communities, and by increasing access to quality early childhood care and education.



Why Early Childhood Development?

7.6 million children under the age of 5 worldwide die each year. More than 25 times that number – over 200 million children – survive, but do not reach their full potential. As a result, their countries have an estimated 20 per cent loss in adult productivity. What happens during the early years is of crucial importance for every child's development. It is a period of great opportunity, but also of vulnerability to negative influences.

Many children do not reach their full human potential because of their families' income status, geographic location, ethnicity, disability, religion or sexual orientation. They do not receive adequate nutrition, care and opportunities to learn. These children and their families can be helped. It is their right to develop as well as to survive. Good nutrition and health and consistent loving care and encouragement to learn in the early years of life help children to do better at school, be healthier, have higher earnings and participate more in society. This is especially important for children in poverty. A good foundation in the early years makes a difference through adulthood and even gives the next generation a better start. Educated and healthy people participate in, and contribute to, the financial and social wealth of their societies.

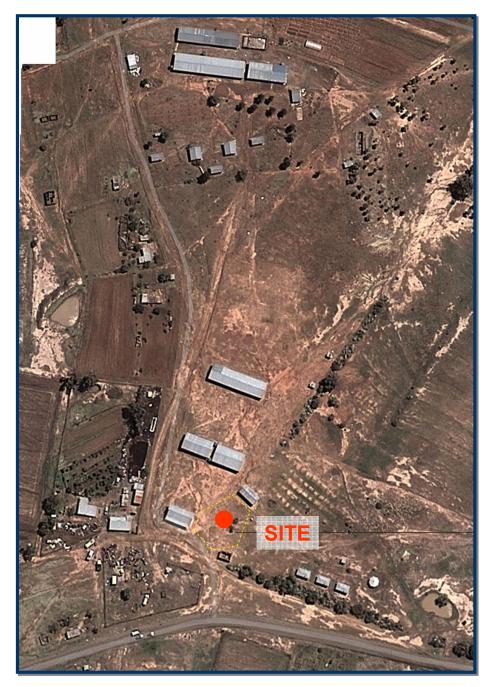
Early years of childhood form the basis of intelligence, personality, social behavior, and capacity to learn and nurture oneself as an adult. There is significant evidence that links the circumstances of adversity and habits formed in early years to the non-communicable diseases of adulthood.



There is consistent and strong evidence which shows that:

- Brain development is most rapid in the early years of life. When the quality of stimulation, support and nurturance is deficient, child development is seriously affected.
- The effects of early disadvantage on children can be reduced. Early interventions for disadvantaged children lead to improvements in children's survival, health, growth, and cognitive and social development.
- Children who receive assistance in their early years achieve more success at school. As adults they have higher employment and earnings, better health, and lower levels of welfare dependence and crime rates than those who don't have these early opportunities.
- Efforts to improve early child development are an investment, not a cost. Available cost-benefit ratios of early intervention indicate that for every dollar spent on improving early child development, returns can be on average 4 to 5 times the amount invested, and in some cases, much higher.

Health services, health workers and community providers have an important role in promoting development of young children. Focussing exclusively on targeted interventions such as health and nutrition without considering the holistic nature of Early Childhood Development risks the hindrance of children's complete growth and development. Both biological and environmental factors affect brain development and behavior. For example, young children who experience extreme stress are at greater risk for developing cognitive, behavioral or emotional difficulties. These impediments can have lasting effects on children's readiness for school and later on their performance in school. For disadvantaged children, the initial deficit of interventions for development has a multiplying effect: children raised in poverty complete far less education than middle class children, due in part to their lowered ability to learn in school. The opportunity to help disadvantaged children attain a more equal start in schooling is in the earliest years of life, when children's brains are developing most rapidly, and the basis for their cognitive, social and emotional development is being formed. A commitment to reducing poverty and increasing the chances of success for all children requires investment in the earliest years.

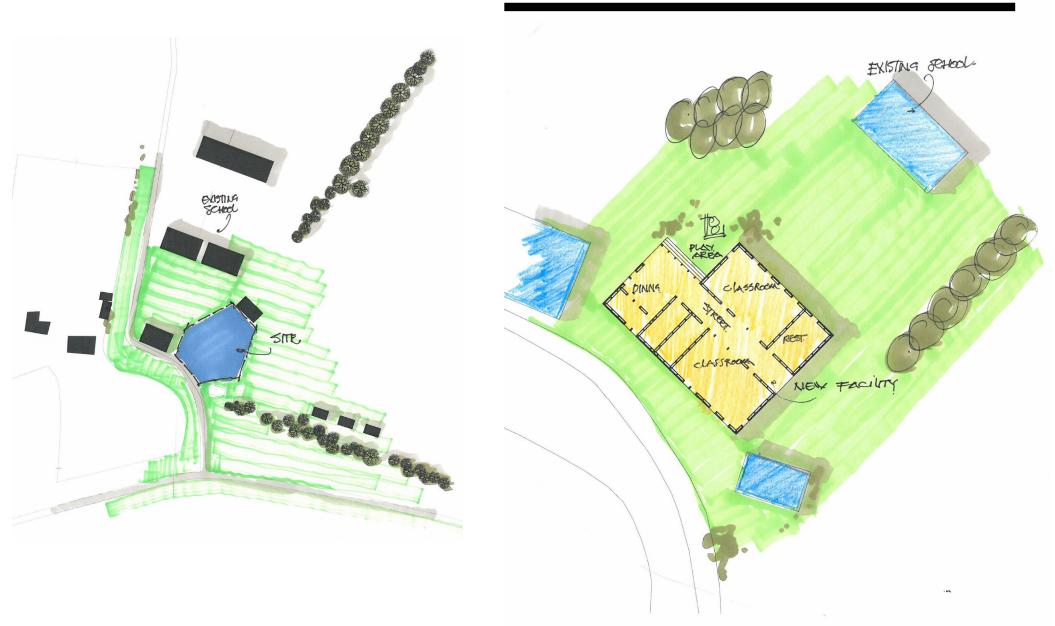


Site Location

Ha Hlalele Lesotho -29.442152, 27.412887



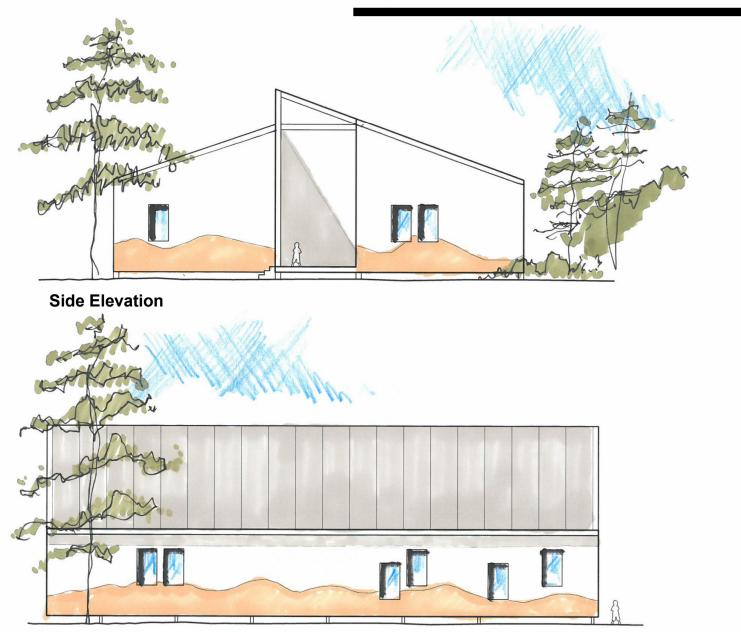
Site Plan



Floor Plan

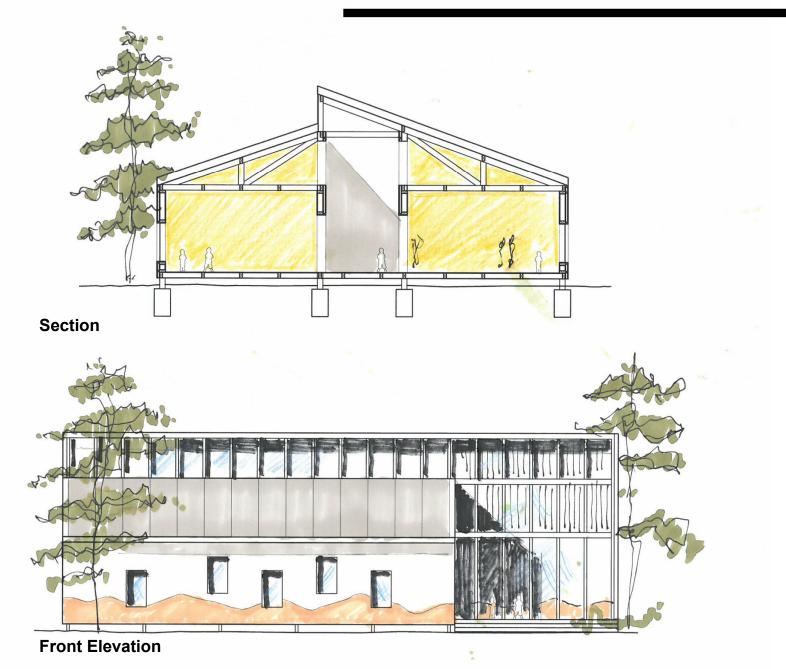


Elevations

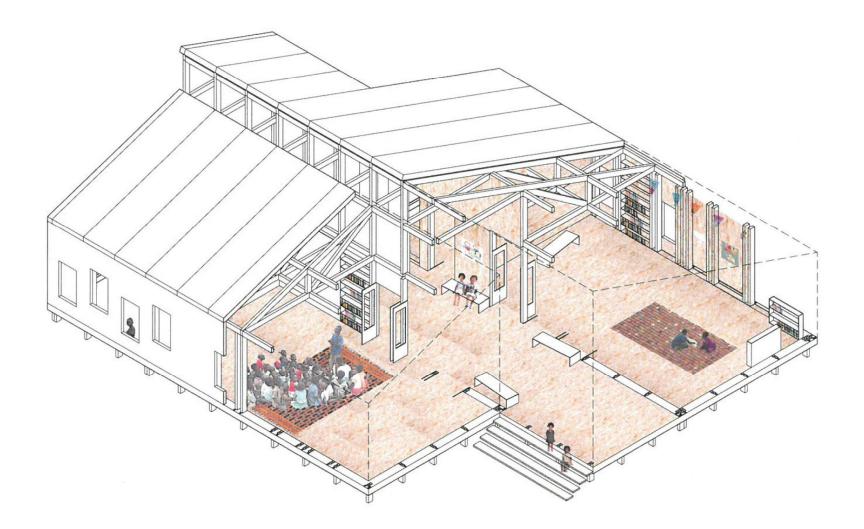


Rear Elevation

Section & Elevation

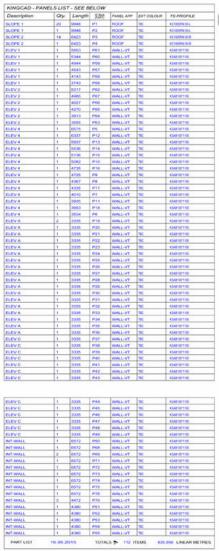


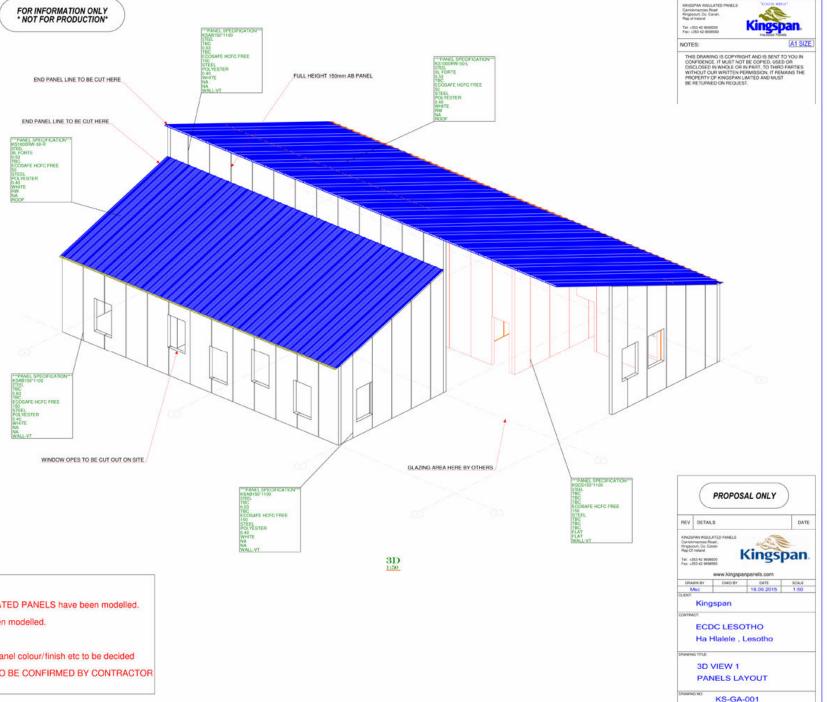
3D View











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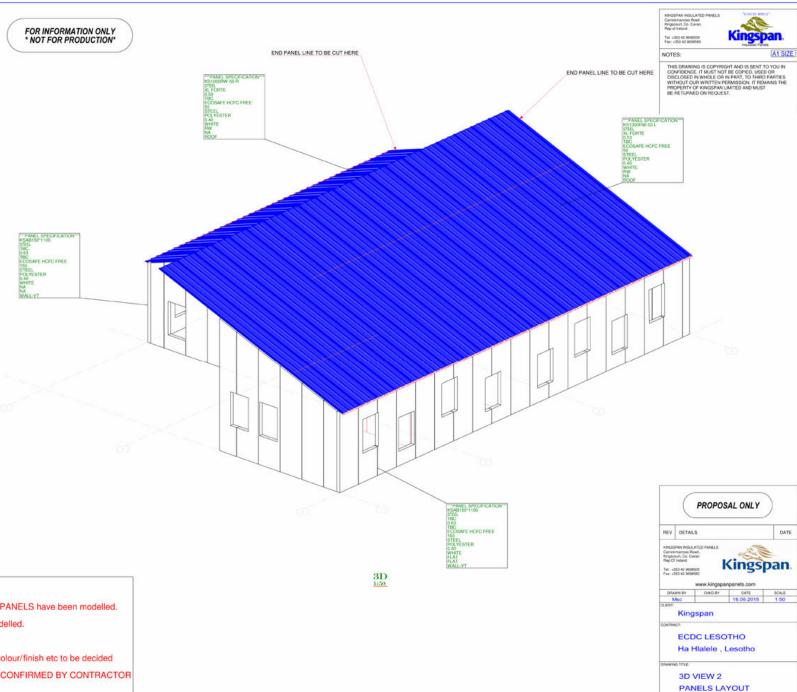
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Description	NELS LIST	Length	\$200	PANEL APP	EXT COLOUR	TS PROFILE
LOPE 1	20	9948	Pairo	ROOP	TK IS	KS10009-SHL
LOPE 1	1	9948	P2	ROOF	780	4510089550L
LOPE 2	14	6423	P3	ROOF	UC .	45100PM 45A
LOPE 2	1	6423	194	ROOF	190	K\$1000RW-50-R
LEV 1	1	5653	P61	WALL-VT	110	KSAB1507110E
LEV 1	1	6344	P60	WALLAT	100	#XA8150*1100
UEV 1	1	4944	P59	WALL-VT	100	K5481507159E
LEVI	1	4543	P57	WALL-VT	110	RSAB180*110E
LEV 1	1	4143	P58	WALL-VT	190	#2A815071100
LEV 1	1	3743	P56	WALL-VT	180	K5481107110E
LEV 2	1	6217	P62	WALL-VT	780	KSA81507110E
LEV 2	1	4965	P67	WALL-VT	190	R35A8150*110E
LEV 2	1	4027	POS	WALL-VT	190	K54815071108
LEV 2	1	4270	P65	WALL-VT	780	#SAB150*110E
LEV 2	1	3913	P64	WALL-VT	190	#SA8197110E
LEV 2	1	3565	P63	WALL-VT	190	#SA81907110E
LEV 4	1	6575	P5	WALL-VT	180	K548159110E
EV 4	1	6337	P12	WALL-VT	190	K548152*115E
EV4	1	5937	P13	WALL-VT	780	K5481507110E
EV.4	1	5536	P14	WALL-VT	180	KSAB1507110E
UEV 4	1	5136	PIS	WALL-VT	192	#5A8150*110E
LEV 4	1	5082	P10	WALL-VT	190	KSA81NP1NE
LEV 4	1	4735	PIE	WALL-VT	780	K5481521100
LEV 4	1	4725	P9	WALL-VT	180	KSAB152*110E
LEV 4	1	4367	P8	WALL-VT	100	KGA815071100
UEV.4	1	4335	P17	WALL-VT	790	RSAR1NP110E
LEV 4	1	4010	P2	WALL-VT	190	#548150*110E
LEVA	1	3935	P11	WALLINT	100	K5481507110E
LEV 4	1	3653	PIR	WALL-VT	780	KSA81507110E
LEV 4	1	3534	P6	WALL-VT	110	K5A2150*110E
LEVA	2	3335	P19	WALLIVT	190	K548190*1108
LEVA	1	3335	P20	WALL-VT	180	#SA816/1100
EV A	1	3335	P21	WALL-VT	190	KSA8150*110E
LEV A	1	3335	P22	WALL-VT	80	KSA81507110E
LEVA	1	3335	P23	WALL-VT	180	KSA8159710E
LEVA	1	3335	P24	WALL-VT	THC	K5481521158
LEVA	1	3335	P25	WALL-VT.	180	#5481501100
LEVA	1	3335	P26	WALL-VT	780	#SA8150*110E
LEVA	1	3335	P27	WALL-VT	180	KSA815071106
LEVA	1	3335	P28	WALL-VT	110	K5481507110E
LEVA	i	3335	P29	WALL-VT	780	K5481621100
LEVA		3335	P30	WALL-VT	780	KSAB150*11SE
LEVA	1	3335	P31	WALLVT	180	#5481907110E
LEVA	1	3335	P32	WALL-VT	780	ASA815271106
LEVA	1	3335	P32	WALL-VT	180	KSA8150*1108
LEVA	1	3335	P34	WALL-VT	110	K3A8192110E
LEVA	1	3335	P35	WALL-VT	190	KSAB1507110E
	1	3335	P36		THC	KSAB150110E
LEVA	1			WALL-VT		
LEVIC	1	3335	P37	WALLVT	16	K548152110E
LEVIC	-	3335	P38	WALL-VT	100 M	KSA81971100
LEV C	1	3338	P39	WALL-VT	190	K5481521100
LEVC	1		P40	WALL-VT		
LEVIC		3335	P41	WALL-VT	10	KSAR15P110E
LEV C		3335	P42	WALL-VT	180	K548150*110E
	1	3335	P4)	WALL-VT	190	REARISPING
EVG	1	3335	P44	WALL-VT	TRC	KSAB1507110E
LEVC	3	3335	P45	WALL-VT	16	K3A8150*1108
LEVIC	1	3335	PAS	WALL-VT	80	KSA81507110E
LEVO	1	3335	P47	WALL-VT	780	KSAB1507110E
EVC	1	3335	P48	WALL-VT	TRC .	KSAR152115E
	1	3335	P40			K54815271100
EVC	1	6572	P50	WALL-VT WALL-VT	780	KSA81507110E
T AWALL		6572		WALL-VT	190	KSAB150*110E
			PG8 PG0			KSAB1507110E
T-WALL				WALL-VT	190	
T-WALL	2	6572			1947	
IT-WALL IT-WALL IT-WALL	2	6572	P71	WALL-VT	780	15481521100
IT-WALL IT-WALL IT-WALL IT-WALL	2	6572 6572	P71 P72	WALL-VT	190	KSAB152110E KSAB152110E
IT-WALL IT-WALL IT-WALL IT-WALL IT-WALL	2	6572 6572 6672	P71 P72 P73	WALL-VT	19C 19C	KSABISPINE KSABISPINE KSABISPINE
YT-WALL YT-WALL YT-WALL YT-WALL YT-WALL YT-WALL	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6572 6572 6572 6572	P71 P72 P73 P74	WALL-VT WALL-VT	190 790 790	KSAB1521100 KSAB1521100 KSAB1521100 KSAB1521100
RT-WALL RT-WALL RT-WALL RT-WALL RT-WALL RT-WALL RT-WALL	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6572 6572 6572 6572 0572	P71 P72 P73 P74 P75	WALL-VT WALL-VT WALL-VT WALL-VT	190 190 190 190	K548152*1102 K548152*1102 K548152*1102 K548152*1102 K548152*1102
NT-WALL NT-WALL NT-WALL NT-WALL NT-WALL NT-WALL NT-WALL NT-WALL NT-WALL	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6572 6572 6572 0572 0572 6372	P71 P72 P73 P74 P75 P76	WALL-VT WALL-VT WALL-VT WALL-VT	190 190 190 190 190	KSABISPINE KSABISPINE KSABISPINE KSABISPINE KSABISPINE
YT-WALL YT-WALL YT-WALL YT-WALL YT-WALL YT-WALL YT-WALL YT-WALL	2 1 1 1 1 1 1 3	6572 6572 6572 6572 6572 6572 6572 4472	P71 P72 P73 P74 P75 P76 P70	WALL-VT WALL-VT WALL-VT WALL-VT WALL-VT	180 196 196 186 186 186 186	KS481521102 KS481521102 KS481521103 KS481521103 KS481521103 KS481521103 KS481521103
PT-WALL PT-WALL PT-WALL PT-WALL PT-WALL PT-WALL PT-WALL PT-WALL PT-WALL PT-WALL	2 1 1 1 1 1 1 3 1 1 1 1 1 1 1 1 1 1 1 1	6572 6572 6572 6572 6572 6572 6572 6572	P71 P72 P73 P74 P75 P76 P70 P51	WALL-VT WALL-VT WALL-VT WALL-VT WALL-VT WALL-VT	110 710 710 710 710 710 710 710 710	KSA81521102 KSA81521102 KSA81521102 KSA81521102 KSA81521102 KSA81521102 KSA81521102 KSA81521102
IT-WALL IT-WALL IT-WALL IT-WALL IT-WALL IT-WALL IT-WALL IT-WALL IT-WALL IT-WALL IT-WALL IT-WALL IT-WALL	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6572 6572 6572 0572 0572 0572 6572 6572 4472 4380 4380	P71 P72 P73 P74 P75 P76 P70 P51 P52	WALL-VT WALL-VT WALL-VT WALL-VT WALL-VT WALL-VT WALL-VT	100 100 100 100 100 100 100 100 100	KS4815271302 KS4815271302 KS4815271302 KS4815271302 KS4815271302 KS4815271302 KS4815271302 KS4815271302
T-WALL	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6572 6572 6572 6572 6572 6572 4472 4380 4380 4380	P71 P72 P73 P74 P75 P76 P76 P70 P51 P52 P53	WALL-VT WALL-VT WALL-VT WALL-VT WALL-VT WALL-VT WALL-VT	100 100 100 100 100 100 100 100 100 100	45441521102 45441521102 45441521103 45441521103 45441521103 45441521103 45441521103 45441521103
PEWALL PEWALL PEWALL PEWALL PEWALL PEWALL PEWALL PEWALL PEWALL PEWALL	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6572 6572 6572 0572 0572 0572 6572 6572 4472 4380 4380	P71 P72 P73 P74 P75 P76 P70 P51 P52	WALL-VT WALL-VT WALL-VT WALL-VT WALL-VT WALL-VT WALL-VT	100 100 100 100 100 100 100 100 100	KS4815271302 KS4815271302 KS4815271302 KS4815271302 KS4815271302 KS4815271302 KS4815271302 KS4815271302



KS-GA-002

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PARTLIST

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TOTALS - 112 ITEMS 635.856 LINEAR METRES

Structural Design to be confirmed.

16.06.2015

Roof Panel, External Wall Panel, and Internal Wall Panel colour/finish etc to be decided
 ALL WINDOW/DOOR CILL AND HEAD HEIGHTS TO BE CONFIRMED BY CONTRACTOR

Description	Qty.	Length	8205	PANEL APP	EXT COLOUR	TS PROFILE
ELEV 1	1	5663	P61	WALL-VT	110	KSAR1507110E
LEV 1	1	5344	PBC	WALL-VT	180	ASAB150110E
LEV 1	1	4944	P59	WALL-VT	100	#5481507110E
LEV 1	1	4543	P67	WALL-VT	TRC	K548139110E
LEV 1	1	4143	PSR	WALL-VT	TRC	#5481507110E
LEV 1	1	3743	P56	WALLVT	thC .	#3.481507110E
LEV 2	1	5217	P62	WALL-VT	180	K5481507110E
ELEV 2	1	4285	P67	WALL-VT	TRC	#SAB150*110E
ELEV 2	1	4627	1966	WALLVY	190	KEAB1NP110E
ELEV 2	1	4270	POS	WALL-VT	190	K548100*110E
ELEV 2	1	3913	P64	WALL-VT	780	#5481507110E
ELEV 2	1	3555	P03	WALL-VT	180	835481501110E
ELEV 4	1	6575	PS	WALL-VT	190	K54815071100
ELEV 4	1	6337	P12	WALL-VT	780	45A8150*110E
LEV 4	1	0937	P13	WALL-VT	190	ASAB150*110E
ELEV 4	1	5536	P14	WALLVT	180	4548190119E
ELEV 4	1	5130	P15	WALL-VT	180	KS48150*110E
ELEV 4	1	5082	Pto	WALL-VT	180	K5481501110E
LEV4	1	4735	P16	WALL-VT	780	#5A8150*110E
LEV 4	1	4725	P9	WALL-VT	780	KSA8150*110E
ELEV 4	1	4367	PR	WALL-VT	1982	#5481507110E
ELEV 4	1	4335	P17	WALL-VT	190	#SA8150*110E
LEV 4	1	4010	P7	WALL-VT	780	K5481521100
ELEV 4	1	3935	P11	WALL-VT	190	KSAB150*110E
ELEV 4	1	3653	P18	WALL-VT	790	REA8150110E
LEV 4	1	3534	P6	WALL-VT	780	#SAB1NP110E
ELEV A	2	3335	Pte	WALL-VT	190	#248150*1196
LEV A	1	3335	P20	WALL-VT	tec.	K5481507110E
LEV A	1	3335	P21	WALL-VT	780	KSA815071100
LEV A	1	3335	P22	WALL-VT	180	K5A2150*1100
ELEV A	1	3335	P23	WALLIVT	190	K548150*1108
ELEV A	1	3335	1924	WALL-VT	TRC	KSAB1NPTINE
LEV A	1	3335	P25	WALL-VT	180	KSAB1NP110E
ELEV A	1	3335	P26	WALL-VT	190	KSA81507110E
LEV A	1	3335	P27	WALL-VT	180	KSA81597198
ELEV A	1	3335	P28	WALL-VT	THC	#3481501155E
ELEV A	1	3335	P29	WALL-VT.	190	#5A81501100
ELEV A	1	3335	P30	WALL-VT	780	#SA8150*110E
ELEV A	1	3335	P31	WALL-VT	180	KSA8150*1106
ELEV A	1	3335	P32	WALL VT	190	KSA8150*110E
ELEV A	1	3335	P33	WALL-VT	780	KEARISPINE
LEV A	1	3335	P34	WALL-VT	180	K548150*1156
ELEV A	1	3335	P35	WALLINT	180	R5A8192110E
ELEVA	1	3335	P36	WALL-VT	780	ASA81021100
ELEV C	1	5335	P37	WALL-VT	190	KSA8150*1106
ELEV C	1	3335	P38	WALL-VT.	190	K5A8192119E
ELEV G	1	3335	P39	WALL-VT	780	KSA81507110E
LEV C	1	3335	PHO	WALL-VT	TRC	KSA8100*110E
LEVIC	1	3335	P41	WALLIVE	190	K5A8152110E
ELEV G	1	3335	P42	WALL-VT	180	KSA8102110E
LEV C	1	3338	P42	WALL-VT	190	KSAB150*110E
ELEVIC	1	3335	P44	WALLVT	190	K548150110E
LEVIC	1	3335	P45	WALL-VT	780	KSAR15P110E
ELEV C	1	3335	PHE	WALL-VT	THC	KSAR150*110E
ELEV C	1	3335	P47	WALL-VT.	180	KSAR162110E
ELEV G	1	3335	P48	WALL-VT	180	K5481007110E
ELEVIC	1	3335	P49	WALL-VT	180	#348150*110E
	1	6572	P50	WALL-VT	16	KSA81507110E

ELEV C	13	3335	P49	WALL-VT	180	#3A81021208
INT-WALL	1	6572	P50	WALL-VT	BC .	KSA815071100
INT-WALL	1	0572	P68	WALL-VT	780	KSA815071100
INT-WALL	2	6572	P69	WALL-VT	THC	KSAR150*110E
INT-WALL	1	6572	P71	WALL-VT	780	#3A81507110E
INT-WALL	1	6572	P72	WALL-VT	780	#SAB152110E
INT-WALL	1	6572	P73	WALL-VT	190	#5A815071100
INT-WALL	1	6572	P74	WALL-VT	100	#SA81071108
INT-WALL	1	6572	P75	WALL-VT	780	K5481521100
INT WALL	1	6572	P76	WALL-VT	190	KSAR1821102
INT WALL	1	4380	P61	WALL VT	790	RGA815071100
INT-WALL	1	4360	P52	WALL-VT	780	#348102110E
INT-WALL	1	4380	P53	WALL-VT	190	KSA0150*1108
INT-WALL	1	4380	P04	WALL-VT	180	#3481N7110E
INT-WALL	1	4380	P65	WALL-VT	780	KSA81507110E



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- ARCHITECTS REFERENCE PLAN SHOWN WITH GRAY DOTTED LINE



