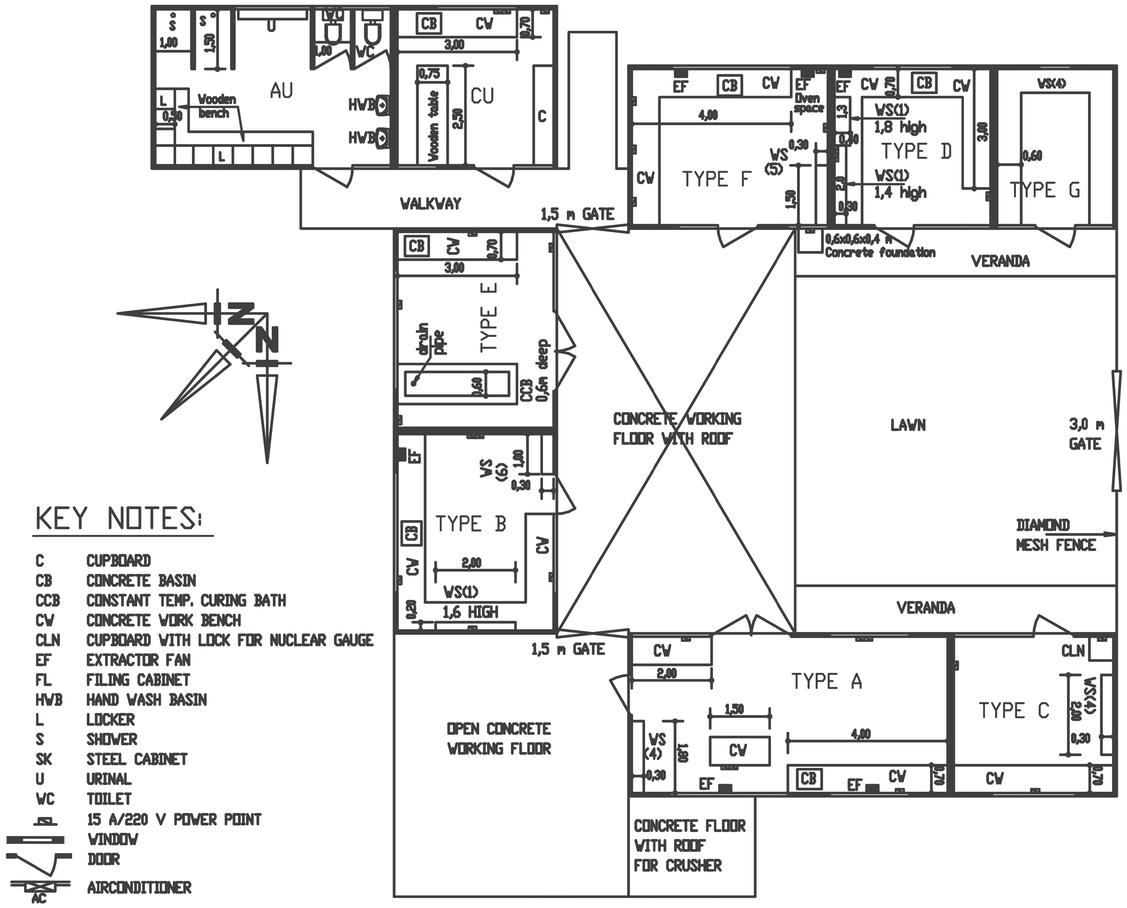
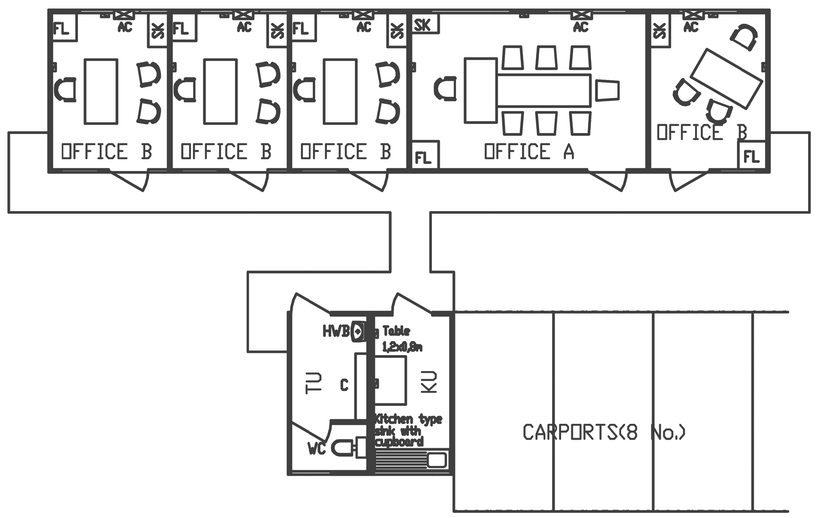


KEY NOTES:

C	CUPBOARD
CB	CONCRETE BASIN
CCB	CONSTANT TEMP. CURING BATH
CV	CONCRETE WORK BENCH
CLN	CUPBOARD WITH LOCK FOR NUCLEAR GAUGE
EF	EXTRACTOR FAN
FL	FILING CABINET
HWB	HAND WASH BASIN
L	LOCKER
S	SHOWER
SK	STEEL CABINET
U	URINAL
WC	TOILET
	15 A/220 V POWER POINT
	WINDOW
	DOOR
AC	AIRCONDITIONER

TYPICAL LAYOUT FOR LABORATORY UNITS



TYPICAL LAYOUT FOR OFFICE UNITS

UNIT TYPES:

TYPE A - LABORATORY (Basic compaction unit)
TYPE B - LABORATORY (Basic indicator unit)
TYPE C - LABORATORY (Field density unit)
TYPE D - LABORATORY (Chemical unit)
TYPE E - LABORATORY (Concrete unit)
TYPE F - LABORATORY (Asphalt/bitumen rubber unit)
TYPE G - LABORATORY (Store unit)
CU - COOKING UNIT
AU - ABLUTION BLOCK
KU - KITCHEN
TU - TOILET
OFFICE A
OFFICE B

STANDARD FURNITURE AND EQUIPMENT

ITEM		NUMBER PER UNIT											
		LABORATORY TYPE							GENERAL				OFFICE
		A	B	C	D	E	F	G	CU	AU	KU	TU	A	B
INTERIOR FLOOR AREA IN m² (SPECIFIED IN PROJECT SPES.)	Small													
	Medium								16	24			24	
	Large	40	24			24								
	Standard			16	16		20	12			8	8		16
HIGH CHAIRS (Lab type) or DRAUGHTSMAN STOOLS		2	2	2	2	2								1
LIGHTS-Double 80 W Fluorescent type complete		3	2	2	2	2	2	2	2	2	1	1	1	2
HEATERS													1	1
220/250 POWER POINTS		8	5	3	3	4	7		3	2	2		2	2
400/231V 3-Phase POWER POINTS		1												
LABORATORY BASINS COMPLETE WITH SWAN NECK TAPS		1	1		1	1	1							
EXTRACTOR FANS (Complete)		2	1		1		2							
BCF TYPE FIRE EXTINGUISHERS		1	1	1	1	1	2		1		1		1	
WOODEN SHELVING (m)		8	10	5	8	2	8	24	2					
WORK BENCHES WITH CONCRETE TOPS (m)		6	8	3	7	2	5		2					
CONCRETE FOUNDATIONS FOR LAB.EQUIPMENT (m³)		1				0,5	1							
SINGLE DOORS		1	1	1	1		1	1	1	3	1	2	1	1
DOUBLE DOORS		1				1								
CUPBOARD WITH LOCK FOR NUCLEAR GAUGE				1										
CONSTANT TEMPERATURE CURING BATH (Proj.spec.)						*								
CONCRETE BASINS									1					
WOODEN TABLES (KitchenXm)									2		1			
FOUR PLATE STOVE									1					
HOT PLATE FOR COOKING PURPOSES											1			
REFRIGERATOR									1		1			
RUBBISH BINS/WASTE PAPER BASKETS									1		1		1	1
KITCHEN CHAIRS (Refer to number of people)									*		2			
VENETIAN BLINDS FOR WINDOWS @ 25% FLOOR AREA									yes		yes		yes	yes
SHOWERS										2				
WC PANS										2		1		
URINALS 2 m LONG										1		1		
HAND WASH BASIN										2		1		
LOCKERS (Refer to number of people)										*				
WOODEN BENCHES (m)										2				
LOCKABLE GENERAL PURPOSE STEEL CUPBOARD													1	1
FILING CABINET													1	1
OFFICE CHAIRS													8	3
OFFICE DESK													1	1
CONFERENCE TABLE (8 PERSONS)													1	
AIR-CONDITIONER													1	1
KITCHEN TYPE SINK WITH STEEL CUPBOARD (1,8 m)											1			
KITCHEN CUPBOARD									1					
DRAWING TABLE (2 m)														1
DRAWING RACK or SHELF FOR PLAN STORAGE													1	1
BOOKSHELVES													1	1
WHITEBOARD (2 m)													1	
SMALL TABLE FOR COMPUTER & PRINTER													1	1

NOTES:

1. CONCRETE WORK BENCHES MUST BE 700mm WIDE AND 920mm HIGH,WITH ONE WOODEN SHELVE UNDERNEATH.
2. EXTRACTOR FANS AND AIR-CONDITIONING UNITS MUST HAVE OWN POWER POINTS.
3. FIRE EXTINGUISHERS MUST BE MOUNTED OUTSIDE UNIT,NEXT TO DOOR OPENING.
4. DOORS MUST OPEN IN DIRECTION SHOWED ON THE DRAWING.
5. TOILET AND ABLUTION UNIT WINDOWS MUST BE OPAQUE.
6. INSIDE LAYOUT DETAILS OF LABORATORY UNITS SHALL BE COMPLIED WITH;LAYOUT OF LABORATORY AND OFFICE BUILDING COMPLEX MAY BE AS AGREED WITH ENGINEER.
7. CONCRETE WORKING FLOORSOPEN AND COVERED AS SPECIFIED IN THE PROJECT SPEC.
8. VERANDA TO BE PROVIDED FOR EACH BUILDING;1,5 m WIDE OVER FULL LENGTH ON ONE SIDE OF BUILDING AS INDICATED ON DRAWING.
9. TELEPHONE EXTENSIONS TO BE PROVIDED IN OFFICES ONLY AS SPECIFIED IN THE PROJECT SPECIFICATION.
10. WINDOW AREA TO BE 25% OF FLOOR AREA OF EACH UNIT.
11. ALL UNITS SHALL BE PROVIDED WITH EFFECTIVE BURGLAR PROOFING.
12. SITE LABORATORY NOT APPLICABLE TO THIS CONTRACT.

FOR TENDER ONLY

No.	DATE	REVISION	CONSULT. ENG.
T01	29/10/2024	ISSUED FOR RETENDER	
T00	28/02/2022	ISSUE FOR TENDER	

CONSTRUCTION RECORD (AS-BUILT)
WORKS CONTRACT ENGINEER
Name :
Prof. Reg. No. :
Date :
SANRAL PROJECT MANAGER
Name :
Date :

DESIGNED BY
NAME
Prof. Reg. No.
CHECKED BY
NAME
Prof. Reg. No.
DRAWN BY
NAME

CONSULTANT APPROVAL
Name :
Prof. Reg. No. :
Date :

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South Africa

Tel: (012) 844 8000

SANRAL
SOUTH AFRICAN NATIONAL ROADS AGENCY SOC LTD
Reg No. 1998/009884/06
BUILDING SOUTH AFRICA THROUGH BETTER ROADS

NORTHERN REGION
38 Ida Street
Menlo Park
Pretoria
0081

Private Bag X17
Lynnwood Ridge
0040

Tel: (012) 426 6200

ACCEPTANCE
THIS ACCEPTANCE IS FOR PROCEDURAL AND ADMINISTRATIVE REVIEW PURPOSES ONLY AND DOES NOT ATTRACT LEGAL LIABILITY OR LIABILITY OF ANY KIND FROM WHATSOEVER CAUSE OR HOWEVER ARISING
for the SA NATIONAL ROADS AGENCY SOC LTD.
Date:

PROJECT DESCRIPTION
FOR TRAINING AND CONSTRUCTION MANAGEMENT SERVICES FOR A COMMUNITY DEVELOPMENT PROJECT TO UPGRADE ACCESS ROADS IN AND NEAR KWAMHLANGA TOWNSHIP – MPUMALANGA PROVINCE

DRAWING DESCRIPTION
PROPOSED TYPICAL LAYOUT FOR OFFICE

SCALE : NTS
SHEET 1 OF 1

PROJECT NUMBER	C.002-053-2023/1
DRAWING LOCATION DATA	START / END
ROUTE	- / -
SECTION	- / -
DRAWING km DISTANCE	- / -
DRAWING TYPE	TYPICAL DRAWING - OTHERS
BRIDGE/STRUCTURE No.	
CONSULTANT DRAWING No.	60487450-4-1-C-DA-111-T-01 VER
SANRAL DOCUMENT #	T01

SANRAL TITLE BLOCK #164823H(DWG\PDF) VERSION V11.1