


REINFORCEMENT SCHEDULE				
MK	TYPE & SIZE	CUTTING LENGTH	SHAPE CODE	BENDING REMARKS
1	Y12	-	20	TOTAL LENGTH
2	R8	1890	60	620 x 200

700x280mm REINFORCED CONCRETE STRIP FOUNDATION FOOTING

- NOTES:
- THIS SPECIFICATION IS TO BE READ IN CONJUNCTION WITH ESKOM'S STANDARD SPECIFICATION AND GENERAL CONDITIONS OF CONTRACT. CONTRACTOR TO PAY ALL FEES IN REGARD TO SERVICES SUPPLIED BY AND FOR THE LOCAL AUTHORITY. PORTABLE LATRINES TO BE PROVIDED AND SERVICES BY CONTRACTOR. CONTRACTOR TO INCLUDE IN HIS PRICING FOR THE TEMPORARY SUPPLY OF WATER AND POWER FOR CONSTRUCTION PURPOSES. CONCRETE.
 - CONCRETE WORK TO BE IN ACCORDANCE WITH SANS 1200.
 - CONCRETE STRENGTH AT 28 DAYS = 25MPa OR UNLESS OTHERWISE STATED.
 - CONCRETE STRENGTH FOR BLINDING LAYER AT 28 DAYS = 15MPa.
 - NO CONCRETE TO BE POURED WHERE THE AIR TEMPERATURE WILL DROP BELOW 4 DEG CELSIUS IN 8 HOURS AFTER POURING, UNLESS A SUITABLE APPROVED ADDITIVE IS ADDED TO THE CONCRETE MIXES.
 - COMPACTION
 - COMPACTION AT THE BOTTOM OF ALL FOUNDATIONS AND TRENCHES SHALL BE COMPACTED TO 95% MOD. AASHTO. FOUNDATIONS.
 - SIZES AND DEPTHS AS INDICATED - 230 & 220mm WALLS WITHOUT ADJACENT TRENCHES TO HAVE 700x250mm MIN 25MPa CONCRETE FOUNDATIONS.
 - TYPE 1 TYPE 2:
 - FOUNDATIONS IN NON-COHESIVE SOILS OR FIRM COHESIVE SOILS, FOUNDATIONS TO BE REINFORCED WITH 3 NO Y12 REINFORCING BARS PLACED AT TOP AND BOTTOM WITH R08 STIRRUPS AT 250 ccs. MIN CONCRETE OF COVER 40mm. WALLS
 - BELOW GROUND - WELL BURNT RED HARD CLAY R.O.K. BRICKS.
 - FIRE WALL - 220mm WALL TO BE TAKEN UP TO UNDERSIDE OF ROOF SHEETING.
 - INTERNAL WALLS AND INTERNAL LAYER OF DOUBLE WALLS (230mm WALLS) - RED CLAY R.O.K. BRICKS (MIN COMPRESSIVE STRENGTH 7MPa).
 - LOADING BAY WALL AND EXTERNAL LAYER OF DOUBLE BRICK WALL (230mm WALLS) - COROBRIK GOLDEN WHEAT TAVERTINE FBS FACEBRICKS. MIN 35MPa OR TO ESKOM APPROVAL. FACEBRICK TO START MIN. 1 COURSE BELOW FINISHED GROUND LEVEL.
 - BRICKWORK - 150mm WIDE GALVANIZED TO FIRST 4 COURSES ABOVE FOUNDATIONS AND TOP 3 COURSES BELOW WALLPLATE. GABLES - 75mm WIDTH EVERY 4th COURSE UP TO APEX/RIDGE.
 - DPC - GUNPLAS 'BRIKGRIP' 375 MICRON STEPPED AT FLOOR LEVELS IN CAVITY WALLS AND AROUND OPENINGS.
 - CAVITY - ALL DOUBLE BRICK WALLS TO HAVE A 10mm THICK CAVITY.
 - JOINTED - FACEBRICK - 100mm RAKED. ALL OTHER BRICKWORK KEVED FOR PLASTERING.
 - MORTAR - ALL MORTAR TO BE 1:4 MIX CEMENT/SAND.
 - PLASTERWORK - 15mm THICK, SMOOTH STEEL FLOAT FINISH. MIX 1:1:6 (CEMENT/LIME/SAND). PAINTING
 - GALV. STEEL - CLEAN OFF WITH GALVOLKLEEN PREPARE APPLY 1x COAT CALCIUM PLUMBATE PRIMER, 1 UNIVERSAL UNDERCOAT AND 2x FINISHING COATS APPROVED GLOSS ENAMEL PAINT.
 - TRENCH COVERS - RED OXIDE PRIMER, 1x UNIVERSAL UNDERCOAT AND 2x FINISHING COATS APPROVED GLOSS ENAMEL PAINT COLOUR - LIGHT GREY(BATTLESHIP GREY).
 - INTERNAL WALLS - PLASCON PLASTER PRIMER, 1 FILLER COAT AND 2 FINISHING COATS PLASCON WALL COLOUR WHITE. FINAL PAINT COATS TO BE APPLIED ONLY AFTER COMMISSIONING OF ELECTRICAL EQUIPMENT COLOUR - LIGHT GREY(BATTLESHIP GREY).
 - ROOF
 - ROOF CONSTRUCTION - PITCH 20 DEGREES WITH 600mm OVERHANG, ROOF TO BE EARTHED.
 - 0.8mm THICK GALV. CHROMADECK IBR SHEETING ON 75x50mm PURLINES @ MAX. 1500mm CENTRES (MAX.) COLOUR TO BE 'GREEN' (TRAFFIC GREEN). ONLY WHITE UNDERTILE MEMBRANE LAPPED INTO GUTTERS SIDE OVERLAPPING TO BE MIN 800mm. ALL EDGES TO BE TAPED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
 - ON PREFABRICATED ROOF TRUSSES TO 20 DEGREES PITCH TRUSSES TO BE AT 1500mm CENTRES (MAX.) ON 114x38mm WALLPLATES EACH TIED DOWN WITH HOOP IRON OR GALVANIZED WIRE INTO BRICKWORK MIN 600mm DEEP INTO WALLS.
 - 'COLOMET' CLOSE FITTING ADJUSTABLE RIDGE CAPPING TO BE USED WITH BIRDPROOF METAL CLOSER AND POLYCLOSER TO ALL JOINTS. BRICK EAVES FILLING ALL TO ARCHITECTS APPROVAL. SINGLE LENGTH U SHAPED PVC GUTTERS ON BRACKETS AT 900mm CENTRE (MAX.) AND Ø75mm 'COLOMET' RAINWATER DOWNPIPES. COLOUR WHITE.
 - FLOORS
 - RELAY ROOM AND BATTERY ROOM
 - NB FLOOR TO BE LAID WITH A TOLERANCE OF 0.5mm PER METER WITH A MAXIMUM OF 2.5mm DIFFERENCE OVER LENGTH ABE 'KOROCRON' CEMENTITIOUS FLOOR HARDENER LAID STRICTLY TO MANUFACTURERS SPECIFICATION AND INSTRUCTIONS ON 100mm THICK 25MPa POWER FLOATED CONCRETE SURFACE BED ON 250 MICRON GUNPLAS USB GREEN WATERPROOF SHEETING ON MIN 50mm SAND FILL ON WELL COMPACTED HARD-CORE FILL IN LAYERS. MAX 150mm. MIN 25mm SMOOTH STEEL FLOATED GRANO SCREED ON 25MPa 100mm CONCRETE SURFACE BED.
 - REINFORCING - REF 245 WELD MESH MIN 50mm FROM BOTTOM OF SLAB.
 - STORE ROOM AND TOILET - MIN 25mm SMOOTH STEEL FLOATED GRANO SCREED ON 25MPa 100mm CONCRETE SURFACE BED AND REMAINDER AS ELSEWHERE.
 - LOADING BAY - 100mm BROOM FINISH 25MPa CONCRETE SURFACE BED WITH 245 WELD MESH.
 - FLOOR FINISH
 - RELAY ROOM
 - FLOOR DUCTS TO HAVE TO BE FLOATED FINISH. EPOXY BASED PAINT FLOOR FINISH, PREPARED AND APPLIED TO PAINT MANUFACTURES SPECIFICATION.
 - TOILET
 - EPOXY BASED PAINT FLOOR FINISH, PREPARED AND APPLIED TO PAINT MANUFACTURES SPECIFICATION.
 - STORE ROOM
 - EPOXY BASED PAINT FLOOR FINISH, PREPARED AND APPLIED TO PAINT MANUFACTURES SPECIFICATION.
 - BATTERY ROOM
 - 420x420x5mm GREY ANTI-SLIP TILES WITH LIGHT GREY(BATTLESHIP GREY) ACID RESISTANT GROUT SEALER. CEILINGS
 - SUSPENDED CEILING - RELAY ROOM
 - 4mm THICK FIBRE CEMENT PANELS AS SUSPENDED CEILING PANEL SET IN WHITE PRE-PAINTED ALUMINIUM T-HANGER SYSTEM AT 3200mm A.F.F.L. APPROVED. 1x UNIVERSAL UNDERCOAT, 2x ACRYLIC PVA FINISH : COLOUR - WHITE.
 - CLADUIT CEILING - STORE ROOM, TOILET AND BATTERY ROOM
 - 4mm THICK FIBRE CEMENT CEILING PANELS ON 38x38mm BATTERNS AT 900x450mm CENTRES, 16mm HALF-ROUND S.A. PINE COVER STRIPS, ALL NAIL HEADS TO BE PRIMED BEFORE CEILINGS ARE PAINTED.
 - 1x UNIVERSAL UNDERCOAT, 2x ACRYLIC PVA FINISH : COLOUR - WHITE.
 - FINISH PAINT COATS TO BE APPLIED ONLY AFTER COMMISSIONING OF ELECTRICAL EQUIPMENT. AIRBRICK
 - 2x AIRBRICKS BUILT INTO GABLE WALLS ROOF SPACE VENTING ON ENTRANCE SIDE AND 1x AIRBRICK ON TOILET AND STORE ROOM SIDE, ONE BRICK LAYER ABOVE THE ANTENNA BRACKET.
 - FIRE EXTINGUISHER
 - TWO FIRE EXTINGUISHERS ARE TO BE INSTALLED IN THE CONTROL ROOM. ONE TO BE IN THE LOADING BAY OPPOSITE THE CONTROL ROOM DOOR, MOUNTED ON THE WALL IN A GLASS FIBRE BOX WITH THE STANDARD LABELLING. THE SECOND IS TO BE MOUNTED IN THE CONTROL ROOM, TO THE LEFT OF RIGHT OF THE ENTRANCE ON A BRACKET WITH STANDARD LABELLING.

D-DT-5281	SHEET 7G	CONTROL ROOM BUILDING TABLE, CHAIR, KEY PANEL AND MIMIC PANEL BOARD
D-DT-5281	SHEET 6F	CONTROL ROOM BUILDING 400/230V AC DISTRIBUTION BOARD KEY DIAGRAM
D-DT-5281	SHEET 5E	CONTROL ROOM TOILET, BATTERY ROOM AND SEPTIC TANK DETAILS
D-DT-5281	SHEET 4D	CONTROL ROOM SECURITY GATES SCHEDULE AND DETAILS
D-DT-5281	SHEET 3C	CONTROL ROOM DOORS AND MINIBLOCK SCHEDULE AND DETAILS
D-DT-5281	SHEET 2B	CONTROL ROOM HANDRAIL AND STEPS LAYOUT
DRG NO.	SHEET NO.	REFERENCE DRAWINGS

THIS DRAWING IS THE NEW OFFICIAL REVISION AND IT SUPERSEDES ALL OTHER PUBLISHED DRAWINGS						
1	ADDED AIR CONDITIONING NOTES AND REFERENCE SHEET 7G		BWH	NSH	NMM	11/04/2018
0	NEW DRAWING					//
REV	REVISION DESCRIPTION		BY	CHKD	AUTH	DATE
<div><div>SUBSTATION CONTROL ROOM SECTIONS AND DETAILS</div></div>						
			AUTH: N WEBBER			
			DATE: 07/01/2015			
			CHKD: B HLOMENDLINI			
			DATE: 07/01/2015			
DRAWING	G BEETGE		SET			SHEET
DATE:	05/01/2015		D-DT-5281			1A
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