

KIMBERLEY NURSING COLLEGE PHASE 2

NORTHERN CAPE DEPARTMENT OF HEALTH

DRAWING NO.	DESCRIPTION	REVISION
P2A/MVD/00/001	DRAWING LIST	A
P2A/MVD/010/002	PHASE 2A LIGHTING SCHEDULE	A
P2A/MVD/010/001/MV	MV RETICULATION LAYOUT	A
P2A/MVD/010/001/LV	LV RETICULATION LAYOUT	
P2A/MVD/010/001/AL	AREA LIGHTING LAYOUT	A
P2A/MVD/010/001/IT	ICT RETICULATION LAYOUT	
P2A/MVD/010/010/LL	BLOCK A - GROUND FLOOR LIGHTING LAYOUT	
P2A/MVD/010/110/LL	BLOCK A - FIRST FLOOR LIGHTING LAYOUT	
P2A/MVD/010/015/LL	BLOCK B - LIGHTING LAYOUT	
P2A/MVD/010/020/LL	BLOCK C - LIGHTING LAYOUT	
P2A/MVD/010/025/LL	BLOCK D - LIGHTING LAYOUT	
P2A/MVD/010/030/LL	BLOCK E - GROUND FLOOR LIGHTING LAYOUT	
P2A/MVD/010/130/LL	BLOCK E - FIRST FLOOR LIGHTING LAYOUT	
P2A/MVD/010/035/LL	BLOCK F - LIGHTING LAYOUT	
P2A/MVD/010/040/LL	BLOCK H - LIGHTING LAYOUT	
P2A/MVD/010/045/LL	BLOCK G - LIGHTING LAYOUT	
P2A/MVD/010/070/LL	BLOCK M - LIGHTING LAYOUT	
P2A/MVD/010/075/LL	BLOCK N - LIGHTING LAYOUT	
P2A/MVD/010/010/SP	BLOCK A - GROUND FLOOR SMALL POWER LAYOUT	
P2A/MVD/010/110/SP	BLOCK A - FIRST FLOOR SMALL POWER LAYOUT	
P2A/MVD/010/015/SP	BLOCK B - SMALL POWER LAYOUT	
P2A/MVD/010/020/SP	BLOCK C - SMALL POWER LAYOUT	
P2A/MVD/010/025/SP	BLOCK D - SMALL POWER LAYOUT	
P2A/MVD/010/030/SP	BLOCK E - GROUND FLOOR SMALL POWER LAYOUT	
P2A/MVD/010/130/SP	BLOCK E - FIRST FLOOR SMALL POWER LAYOUT	
P2A/MVD/010/035/SP	BLOCK F - SMALL POWER LAYOUT	
P2A/MVD/010/040/SP	BLOCK H - SMALL POWER LAYOUT	
P2A/MVD/010/045/SP	BLOCK G - SMALL POWER LAYOUT	
P2A/MVD/010/070/SP	BLOCK M - SMALL POWER LAYOUT	
P2A/MVD/010/075/SP	BLOCK N - SMALL POWER LAYOUT	
P2A/MVD/010/010/IT	BLOCK A - GROUND FLOOR ICT LAYOUT	
P2A/MVD/010/110/IT	BLOCK A - FIRST FLOOR ICT LAYOUT	
P2A/MVD/010/015/IT	BLOCK B - ICT LAYOUT	
P2A/MVD/010/020/IT	BLOCK C - ICT LAYOUT	
P2A/MVD/010/025/IT	BLOCK D - ICT LAYOUT	
P2A/MVD/010/030/IT	BLOCK E - GROUND FLOOR ICT LAYOUT	
P2A/MVD/010/130/IT	BLOCK E - FIRST FLOOR ICT LAYOUT	
P2A/MVD/010/035/IT	BLOCK F - ICT LAYOUT	
P2A/MVD/010/040/IT	BLOCK H - ICT LAYOUT	
P2A/MVD/010/045/IT	BLOCK G - ICT LAYOUT	
P2A/MVD/010/070/IT	BLOCK M - ICT LAYOUT	
P2A/MVD/010/075/IT	BLOCK N - ICT LAYOUT	
P2A/MVD/010/010/AC	BLOCK A - GROUND FLOOR ACCESS CONTROL & CCTV LAYOUT	
P2A/MVD/010/110/AC	BLOCK A - FIRST FLOOR ACCESS CONTROL & CCTV LAYOUT	
P2A/MVD/010/015/AC	BLOCK B - ACCESS CONTROL & CCTV LAYOUT	
P2A/MVD/010/020/AC	BLOCK C - ACCESS CONTROL & CCTV LAYOUT	
P2A/MVD/010/025/AC	BLOCK D - ACCESS CONTROL & CCTV LAYOUT	
P2A/MVD/010/030/AC	BLOCK E - GROUND FLOOR ACCESS CONTROL & CCTV LAYOUT	
P2A/MVD/010/130/AC	BLOCK E - FIRST FLOOR ACCESS CONTROL & CCTV LAYOUT	
P2A/MVD/010/035/AC	BLOCK F - ACCESS CONTROL & CCTV LAYOUT	
P2A/MVD/010/040/AC	BLOCK H - ACCESS CONTROL & CCTV LAYOUT	
P2A/MVD/010/045/AC	BLOCK G - ACCESS CONTROL & CCTV LAYOUT	
P2A/MVD/010/070/AC	BLOCK M - ACCESS CONTROL & CCTV LAYOUT	
P2A/MVD/010/075/AC	BLOCK N - ACCESS CONTROL & CCTV LAYOUT	
P2A/MVD/010/010/FD	BLOCK A - GROUND FLOOR FIRE DETECTION LAYOUT	
P2A/MVD/010/110/FD	BLOCK A - FIRST FLOOR FIRE DETECTION LAYOUT	
P2A/MVD/010/015/FD	BLOCK B - FIRE DETECTION LAYOUT	
P2A/MVD/010/020/FD	BLOCK C - FIRE DETECTION LAYOUT	
P2A/MVD/010/025/FD	BLOCK D - FIRE DETECTION LAYOUT	
P2A/MVD/010/030/FD	BLOCK E - GROUND FLOOR FIRE DETECTION LAYOUT	
P2A/MVD/010/130/FD	BLOCK E - FIRST FLOOR FIRE DETECTION LAYOUT	
P2A/MVD/010/035/FD	BLOCK F - FIRE DETECTION LAYOUT	
P2A/MVD/010/040/FD	BLOCK H - FIRE DETECTION LAYOUT	
P2A/MVD/010/045/FD	BLOCK G - FIRE DETECTION LAYOUT	
P2A/MVD/010/070/FD	BLOCK M - FIRE DETECTION LAYOUT	
P2A/MVD/010/075/FD	BLOCK N - FIRE DETECTION LAYOUT	
P2A/MVD/010/010/AV	BLOCK A - GROUND FLOOR AV LAYOUT	
P2A/MVD/010/110/AV	BLOCK A - FIRST FLOOR AV LAYOUT	
P2A/MVD/010/015/AV	BLOCK B - AV LAYOUT	
P2A/MVD/010/020/AV	BLOCK C - AV LAYOUT	
P2A/MVD/010/025/AV	BLOCK D - AV LAYOUT	
P2A/MVD/010/030/AV	BLOCK E - GROUND FLOOR AV LAYOUT	
P2A/MVD/010/130/AV	BLOCK E - FIRST FLOOR AV LAYOUT	
P2A/MVD/010/035/AV	BLOCK F - AV LAYOUT	
P2A/MVD/010/045/AV	BLOCK G - AV LAYOUT	

DRAWING NO.	DESCRIPTION	REVISION
P2A/MVD/014/010/LP	BLOCK A - LIGHTNING PROTECTION LAYOUT	
P2A/MVD/014/015/LP	BLOCK B - LIGHTNING PROTECTION LAYOUT	
P2A/MVD/014/020/LP	BLOCK C - LIGHTNING PROTECTION LAYOUT	
P2A/MVD/014/025/LP	BLOCK D - LIGHTNING PROTECTION LAYOUT	
P2A/MVD/014/030/LP	BLOCK E - LIGHTNING PROTECTION LAYOUT	
P2A/MVD/014/035/LP	BLOCK F - LIGHTNING PROTECTION LAYOUT	
P2A/MVD/014/040/LP	BLOCK H - LIGHTNING PROTECTION LAYOUT	
P2A/MVD/014/045/LP	BLOCK G - LIGHTNING PROTECTION LAYOUT	
P2A/MVD/014/070/LP	BLOCK M - LIGHTNING PROTECTION LAYOUT	
P2A/MVD/014/075/LP	BLOCK N - LIGHTNING PROTECTION LAYOUT	
P2A/MVD/014/015/PV	BLOCK B - PV SOLAR LAYOUT	
P2A/MVD/014/040/PV	BLOCK H - PV SOLAR LAYOUT	
P2A/MVD/010/0001/SLD	MV & LV SINGLE LINE DIAGRAM	A
P2A/MVD/010/005/SLD1	BLOCK A - GROUND FLOOR SINGLE LINE DIAGRAM	
P2A/MVD/010/010/SLD2	BLOCK A - FIRST FLOOR SINGLE LINE DIAGRAM	
P2A/MVD/010/015/SLD	BLOCK B - SINGLE LINE DIAGRAM	
P2A/MVD/010/020/SLD	BLOCK C - SINGLE LINE DIAGRAM	
P2A/MVD/010/025/SLD	BLOCK D - SINGLE LINE DIAGRAM	
P2A/MVD/010/030/SLD1	BLOCK E - GROUND FLOOR SINGLE LINE DIAGRAM 1	
P2A/MVD/010/030/SLD2	BLOCK E - GROUND FLOOR SINGLE LINE DIAGRAM 2	
P2A/MVD/010/130/SLD	BLOCK E - FIRST FLOOR SINGLE LINE DIAGRAM	
P2A/MVD/010/035/SLD1	BLOCK F - SINGLE LINE DIAGRAM 1	
P2A/MVD/010/035/SLD2	BLOCK F - SINGLE LINE DIAGRAM 2	
P2A/MVD/010/045/SLD	BLOCK G - SINGLE LINE DIAGRAM	
P2A/MVD/010/040/SLD1	BLOCK H - SINGLE LINE DIAGRAM 1	
P2A/MVD/010/040/SLD2	BLOCK H - SINGLE LINE DIAGRAM 2	
P2A/MVD/010/070/SLD	BLOCK N - SINGLE LINE DIAGRAM	
P2A/MVD/010/060/SLD	BLOCK M - SINGLE LINE DIAGRAM	
P2A/MVD/030/015/LL	BLOCK B - LIGHTING ELEVATIONS	
P2A/MVD/030/020/LL	BLOCK C - LIGHTING ELEVATIONS	
P2A/MVD/030/025/LL	BLOCK D - LIGHTING ELEVATIONS	
P2A/MVD/030/030/LL	BLOCK E - LIGHTING ELEVATIONS 1	
P2A/MVD/031/030/LL	BLOCK E - LIGHTING ELEVATIONS 2	
P2A/MVD/031/035/LL	BLOCK F - LIGHTING ELEVATIONS	A
P2A/MVD/010/040/DS	ABOVE GROUND DIESEL STORAGE TANK AND FUEL PIPING INSTALLATION	
P2A/MVD/010/040/D	ABOVE GROUND DIESEL STORAGE TANK AND FUEL SPECIFICATIONS	
P2A/MVD/010/015/SLD 2	BLOCK B- DB B2 E SINGLE LINE DIAGRAM	

NOTE/NOTA :
NO DIMENSIONS ARE TO BE SCALED OFF ANY DRAWINGS. ALL DIMENSIONS ARE TO BE RATIFIED ON SITE PRIOR TO ANY CONSTRUCTION.

BEFORE CONTRACT COMMENCES, VOOR KONTRAK IN AANVANG NEEM.
AFTER CONTRACT HAS COMMENCED, NA KONTRAK IN AANVANG GENEEM HET.

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NO.	DATE	AMENDMENTS
A	JULY 2024	DRAWINGS ADDED TO LIST

NORTHERN CAPE PROVINCE DEPARTMENT OF TRANSPORT, ROADS AND PUBLIC WORKS

EN PROVINSIE NOORD-KAAP DEPARTEMENT VAN VEVOER, PAAIE OPENBARE WERKE

PHONDO LOMNTLA KAPA ISEBE IEZO THUTHO INDELELA NE LEZEMISEBENZI

PROFENSI YA KAPA BOKONE LEFAPHA LA DIPALANGWA DITSELA LE DITIRO

PROJECT
NCDOH NURSING COLLEGE PHASE 2

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DRAWING DESCRIPTION			
DRAWING LIST			
DESIGN ONTWERP	H. Jonck	PROJECT PROJEK	6207-2
DRAWN GETEKEN	H. Leemans	DATE DATUM	JULY 2024

MVD Kalahari
Consulting Engineers and Town Planning/Raadgewende Ingenieurs en Stadsbeplanning.

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CESA

SCALE: 1:100 @ A1
DRAWING No. P2A/MVD/00/001
REV No. A

FOR CONSTRUCTION

SCHEDULE OF LIGHTING LUMINAIRES								
Type	Type	Description	LED Lamp (Watt)	Lm (luminaire)	Mounting Height	Colour	IP	Photo
A		Province recessed ceiling mounted, 1200 x 600 module, 70W LED panel light, 4000K, type Theia with SA plug and 3,5m captyre cord or equal and approved.	70W	7000	Recessed ceiling	White	20	
B		Province recessed ceiling mounted, 600 x 600 module, 36W LED panel light, 4000K, type Theia with SA plug and 3,5m captyre cord or equal and approved.	36W	3600	Recessed ceiling	White	20	
C		Beka VLN, damp proof, 46W LED light, 4000K. Allow deeper round box in ceiling slab/void to accommodate the damp proof gland for wiring access through top base where new 20mm dia hole is cut. No surface conduit/wiring. Must have stainless steel diffuser clips or equal and approved.	46W	7062	Surface, ceiling mounted	White	65	
D		Beka, series 50, bulkhead, 4000K, prismatic-clear diffuser or equal and approved.	16W	2190	2500mm AFFL	Black, powder coated	65	
E		Beka, series 40, bulkhead, 4000K, prismatic-clear diffuser or equal and approved.	8W	1095	2500mm AFFL	Black, powder coated	65	
F		Beka, series 30, bulkhead, 4000K, opal diffuser or equal and approved.	17W	2620	Surface, ceiling mounted	Black, powder coated	65	
H1		Province lighting, Maria, recessed down lighter, 4000K or equal and approved.	40W	3500	Recessed, ceiling mounted	White	20	
H2		Province lighting, Aegeon, recessed down lighter, 4000K or equal and approved.	30W	2450	Recessed, ceiling mounted	White	20	
H3		Province lighting, Aegeon, recessed down lighter, 4000K or equal and approved.	20W	1650	Recessed, ceiling mounted	White	20	
H4		Province lighting, Aegeon, recessed down lighter, 4000K or equal and approved.	15W	1200	Recessed, ceiling mounted	White	20	
H5		Province lighting, Aegeon, recessed down lighter, 4000K or equal and approved.	10W	800	Recessed, ceiling mounted	White	20	
H6		Province lighting, Aegeon, recessed down lighter, 4000K or equal and approved.	5W	400	Recessed, ceiling mounted	White	20	
H7		Province lighting, Sirius 150 invisible light, recessed down lighter, 4000K or equal and approved.	30W	3240	Recessed, ceiling mounted	White with black reflector	20	
M		Ceiling mounted Hutz Hugo-LED-C medical examination lamp. Lux output: 50000 lux at 500mm/35000 lux @ 1000mm, with the switch on lamp head, Class 1 type B electrical safety classification, with 1540mm operating reach, or equal and approved.	17,5W	50000 LUX @ 500mm/35000 LUX @ 1000mm	3m Ceiling height	White	54	
M1		Gablier rail mounted Hutz Hugo-LED-R medical examination lamp. Lux output: 50000 lux at 500mm/35000 lux @ 1000mm, with the switch on lamp head, Class 1 type B electrical safety classification, with 1540mm operating reach, including 1,5m cabtyre and moulded plug top or equal and approved.	17,5W	50000 LUX @ 500mm/35000 LUX @ 1000mm	Gablier Rail	White	54	
N		Province, SIGMA, emergency exit light, with 1 hour, 100% output, Nickel-cadmium, 5 x 2Ahr battery pack, 4000K	3W		Wall, 250mm above door	Standard	20	
O1		Beka, Zela, post top, including a 4m mounting height galvanized pole as manufactured by Sectional Poles, including baseplate, circuit breaker (2,5kA), etc.	55W	6490	4m, Pole Mounted	Black (Pole & Fitting), powder coated	66	
O2		Beka, LEDume Midi, street light, including a 8,5m mounting height fibreglass pole as manufactured by BEKA, including baseplate, circuit breaker (2,5kA), and 1,5mm x 3c Cu surfix wiring, etc.	55W	6441	8,5m, Pole Mounted	Black (Pole & Fitting), powder coated	66	
P		Beka Omnistar 1-E Midi, 80 LED, 226W flood light with mounting bracket, 29434K, with SA plug and 3,5m captyre cord or equal and approved.	226W	29434	Surface against the roof steel trusses at 4,5m, at 20deg tilt to horizontal level.	White	66	
P1		Beka Omnistar 2E-Midi, LED, 910W including DALI Drivers, with mounting bracket, 4000K or equal and approved.	910W	99147	On 18m sportfield floodlight mast	Die-cast Aluminium	66	
P2		Beka Omnistar 2E-Maxi, LED, 1408W including DALI Drivers, with mounting bracket, 4000K or equal and approved.	1408W	151619	On 18m sportfield floodlight mast	Die-cast Aluminium	66	

SCHEDULE OF LIGHTING LUMINAIRES								
Type	Type	Description	LED Lamp (Watt)	Lm (luminaire)	Mounting Height	Colour	IP	Photo
Q		Province, Cassius, aluminium body, suspended LED continuous luminaire with suspension steel cables, 4000K, with SA plug and 3,5m captyre cord or equal and approved.	34W	3200	Suspended with 1m steel cables from ceiling.	White	20	
Q1		Province, Cassius, aluminium body, ceiling mounted LED continuous luminaire, 4000K, with SA plug and 3,5m captyre cord or equal and approved.	34W	3200	Suspended with 1m steel cables from ceiling.	White	20	
Q2		Province ceiling mounted LF55 x 80 Powder Coated Extruded Aluminium Continuous linear or curved body with separate driver compartment, Led Strip 2 x 1600mm 4000K, complete with 2 x LED drivers and power supply or equal and approved.	34W	3200	Suspended with 1m steel cables from ceiling.	White	20	
R		Track lights	177W	26430	Ceiling mounted	White	66	
S		Province ceiling mounted light frame 5, 600 linear strip, 4000K, complete with LED driver and power supply or equal and approved.	4.8W	600/m	Above ceiling bulkhead, 300mm from edge for uplight	White	22	
T		Province Lighting, Die-Cast Aluminium, Tempered Glass 4000K, Diam 160 x H 370 x D.275, 50000hr, complete with LED driver or equal and approved.	35W	4500	Ground Mount	Anthracit	66	
T1		Lamp Base GU10 Length (mm) 153 Overall Diameter (mm) 90 Weight (Kg) 0.549 Projection (mm) 30 Product Type Spike Lights Operating Temp. (Min) °C -25°C Operating Temp. (Max) °C 45°C	5W - 10W	580 - 800	Ground Mount	Black	65	
U		Neon Flex SSF - PPB (Side to Side Flexible) Up or Down Flex) 4000K 9.6W 280Lm, 10 metres in two directions per PSU, complete with LED driver and power supply or equal and approved.	6W - 9W	280lm - 670lm	Surface below benches	any color	65	
V		Province Lighting, 2 x 7W 4000K, GU10, 25000hr, 60 degree beam, Die Cast Aluminium Led Up / Down, Downlighter, complete with LED driver or equal and approved.	2x 7W	2x 580	Wall mounted at 2,5m AFFL	Graphite	65	
W		Province IP67 Pro profile PPB LED backlit surface mounted lighting to fit the signage letters.	n/a	n/a	Wall mounted as specified by architect	n/a	65	
X		Province, Delina Bollard, including, with 2 x 8W LED lamps and opal diffuser, 3000K and LED driver or equal and approved	8W	2x 720lm	Ground mounted	Black	65	

GENERAL NOTES	
Open area Lux Control sensor	
All recessed down lighters in concrete ceilings/soffits must be housed in a recessed galvanised concrete slab box sized according to the luminaire supplier's specification to accommodate the heat dissipation.	
Light symbols that are yellow colour coded refers to the requirement for a DALI dimmable driver for the relevant light fitting	
Alternative	Alternative offer must have the same or better efficacy lm/w performance as the product specified and must be submitted for approval to the engineer.
LED Drivers	All LED luminaires shall bear the Safety Requirements Mark, SANS 60598 and Performance Requirements Mark, SANS 475 and be fitted with high-frequency, "flicker free" drivers (LG, Osram, Tridonic, TCI/DC JOLLY) with a frequency greater than 100HZ.
LED aluminium strip lighting	All linear and or curved Aluminium LED strip lighting must be installed by the supplier's preferred specialist to ensure the perfect product installation with reference to the extruded aluminium metal cutting, fitting, levelling, etc.

NOTE/NOTA :
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A BEFORE CONTRACT COMMENCES, VOOR KONTRAK IN AANVANG NEEM.
A1 AFTER CONTRACT HAS COMMENCED, NA KONTRAK IN AANVANG GENEEM HET.

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NO.	DATE	AMENDMENTS
A	JULY 2024	TYPE P LIGHT DESCRIPTION CHANGED AND LIGHTS ADDED

NORTHERN CAPE PROVINCE
DEPARTMENT OF TRANSPORT,
ROADS AND PUBLIC WORKS

EN PROVINISIE NOORD-KAAP
DEPARTEMENT VAN VEVOER, PAAIE
OPENBARE WERKE

PHONDO LOMNTLA KAPA
ISEBE IEZO THUTHO INDLILA
NE LEZEMISEBENZI
PROFENSI YA KAPA BOKONE
LEFAPHA LA DIPALANGWA
DITSELA LE DITIRO

PROJECT
NCDOH NURSING COLLEGE
PHASE 2

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Web site: www.hdg.co.za

DRAWING DESCRIPTION			
PHASE 2A LIGTHING SCHEDULE			
DESIGN ONTWERP	H. Jonck	PROJECT PROJIEK	6207-2
DRAWN GETEKEN	H. Leemans	DATE DATUM	July 2024

MVD Kalahari
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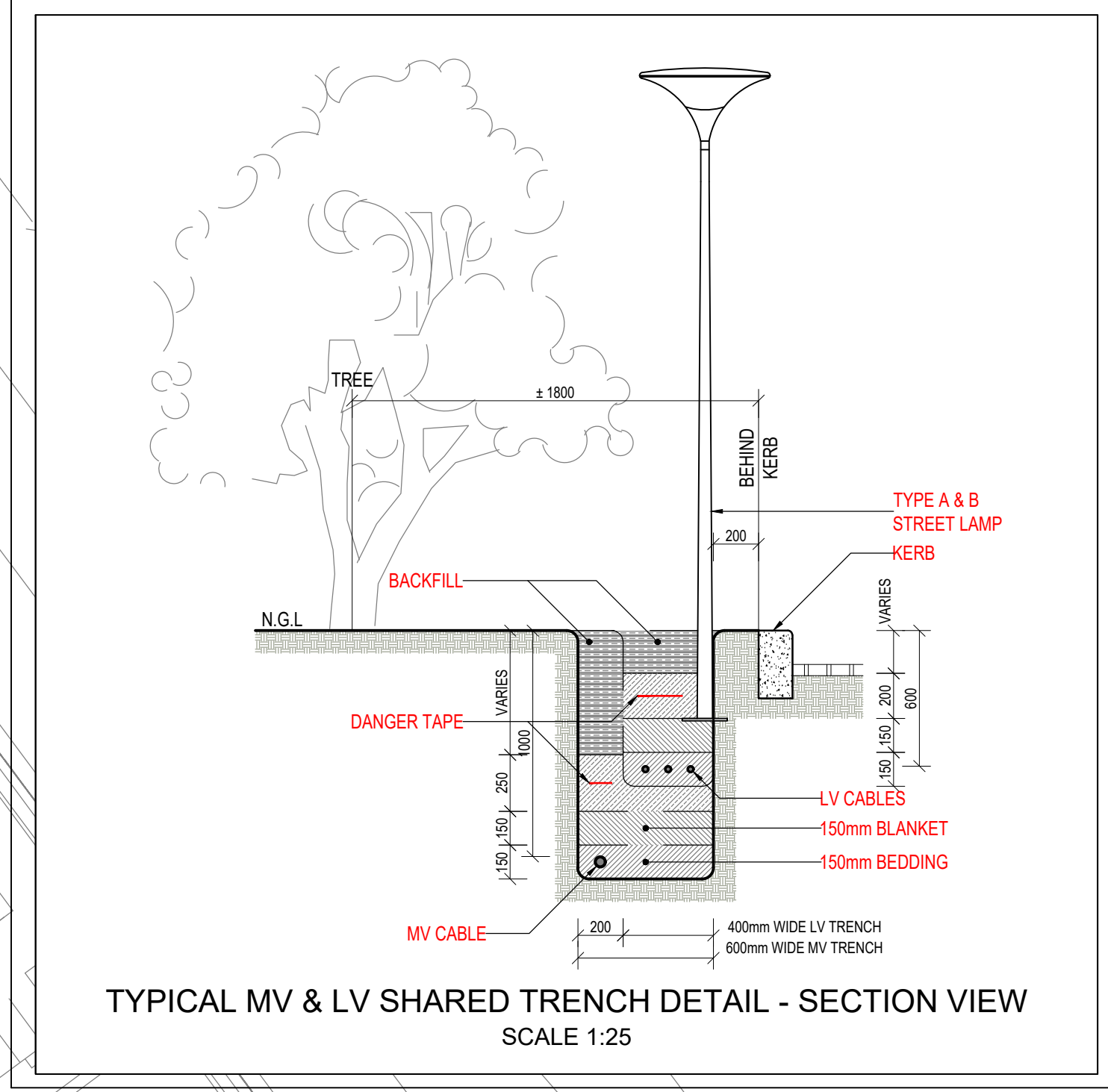
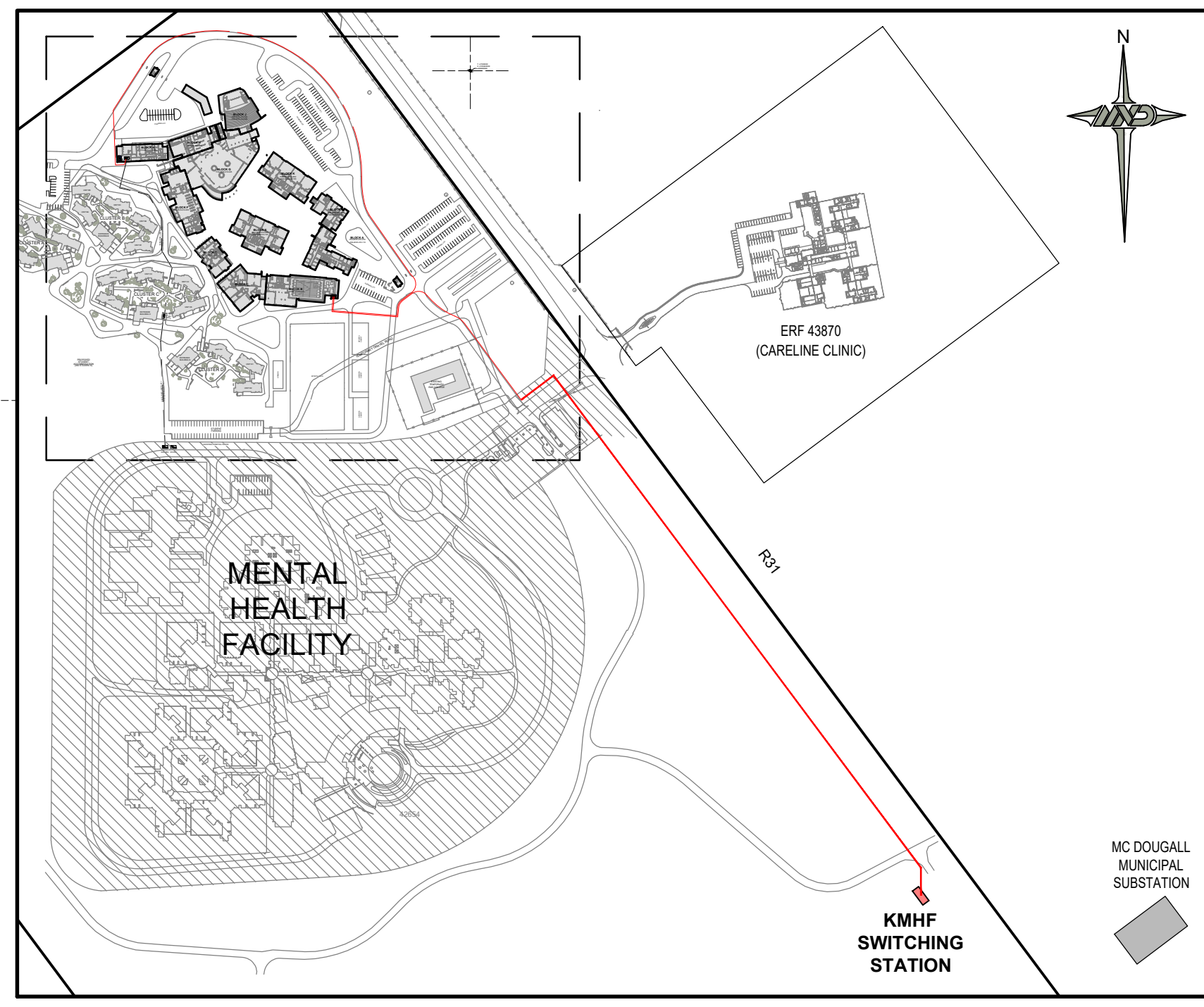
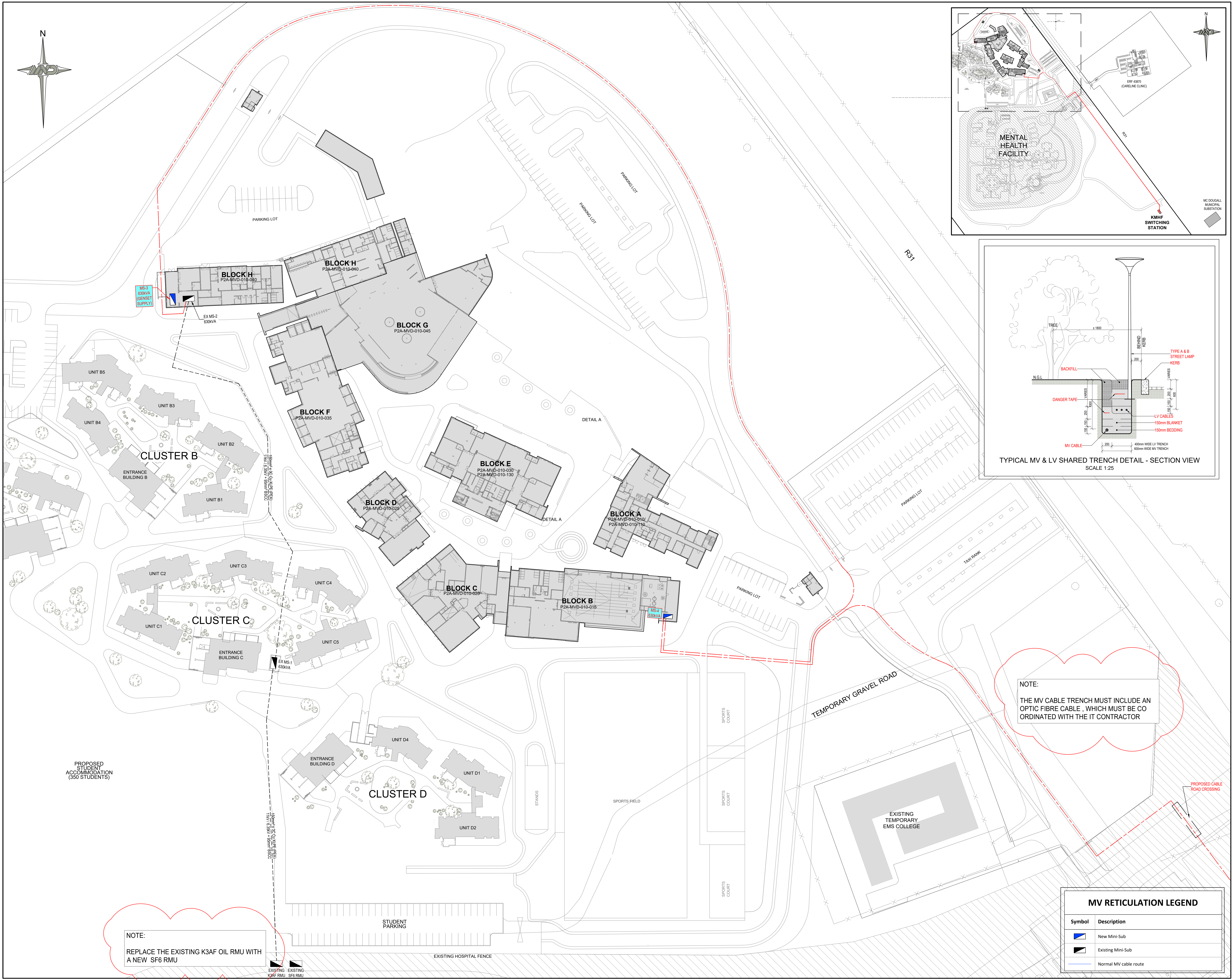
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Level 2 B-BBEE Contributor

SCALE
N.T.S

DRAWING No.
P2A-MVD-010-002

REV No.
A

FOR CONSTRUCTION



NOTE:
THE MV CABLE TRENCH MUST INCLUDE AN OPTIC FIBRE CABLE, WHICH MUST BE CO ORDINATED WITH THE IT CONTRACTOR

NOTE:
REPLACE THE EXISTING K3AF OIL RMU WITH A NEW SF6 RMU

MV RETICULATION LEGEND	
Symbol	Description
	New Mini-Sub
	Existing Mini-Sub
	Normal MV cable route

NOTENOTA:
NO DIMENSIONS ARE TO BE SCALED OFF ANY DRAWINGS. ALL DIMENSIONS ARE TO BE RATIFIED ON SITE PRIOR TO ANY CONSTRUCTION.
GEEN AFMETINGS MAG VAN TEKENINGE GESKAAL WORD NIE. ALLE AFMETINGS MOET OP TERREIN NAGEGAAN WORD VOOR KONSTRUKSIE.

FOR TENDER

A BEFORE CONTRACT COMMENCES
VOOR KONTRAK IN AANWAG NEM.
A1 AFTER CONTRACT HAS COMMENCED
NA KONTRAK IN AANWAG GENEEM HET.

NO. NR.	DATE DATUM	AMENDMENTS WYSIGINGS
A	JULY 2024	NOTES ADDED

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NORTHERN CAPE PROVINCE
DEPARTMENT OF TRANSPORT,
ROADS AND PUBLIC WORKS
PROVINSIE NOORD-KAAP
DEPARTEMENT VAN Vervoer, PAIE
EN OPENBARE WERKE

PHONDO LOMNTLA KAPA
ISEBE IEZO THUTHO INDELEA
NE LEZEMISEBENZI
PROFENSI YA KAPA BOKONE
LEFAPHA LA DIPALANGWA
DITSELA LE DITIRO

HDG
HOSTIPAL DESIGN GROUP

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MVD Kalahari

Raadgewende Ingenieurs en Stadsbeplanning,
Consulting Engineers and Town Planning.

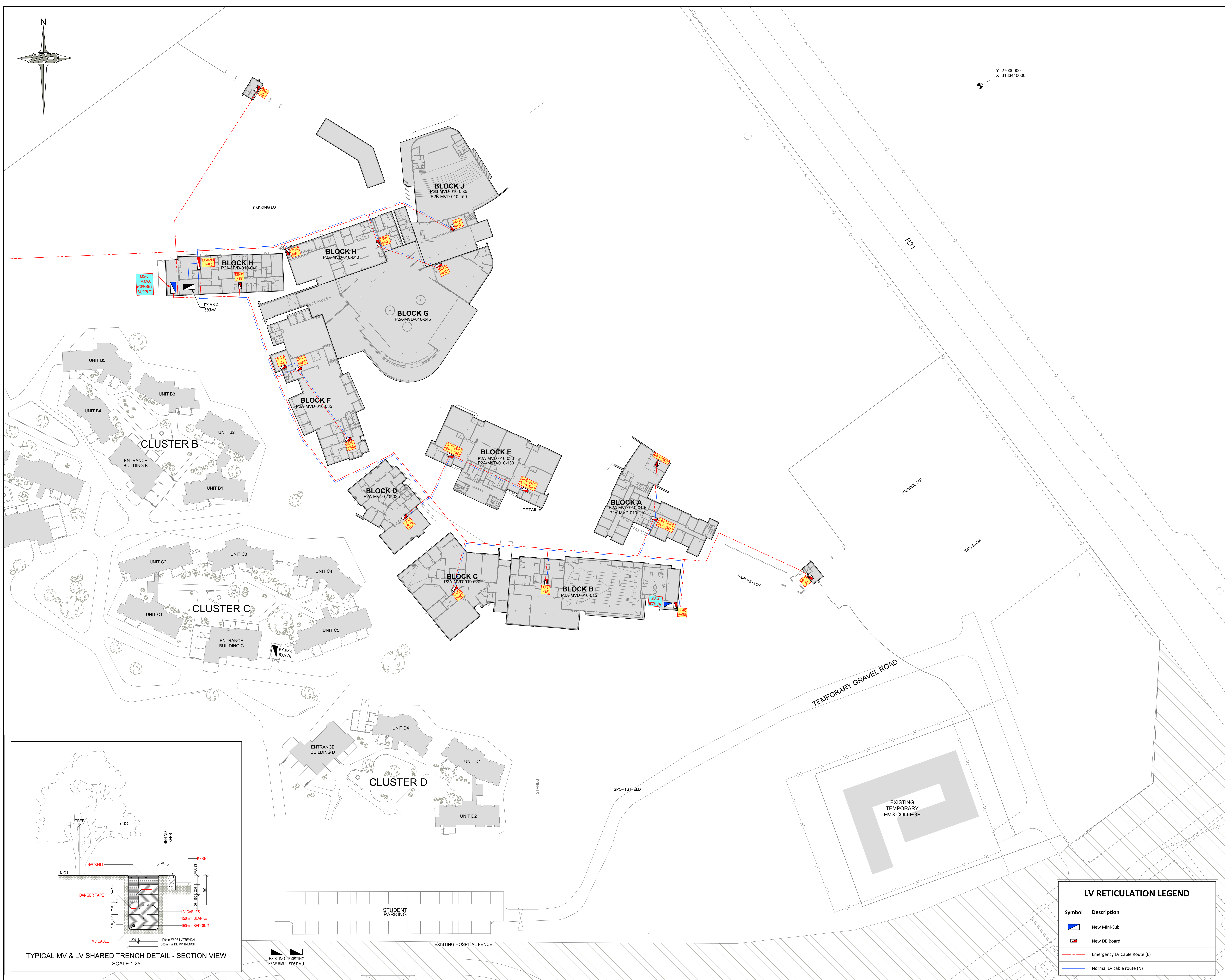
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Level 2 B-BBEE Contributor

PROJECT/PROJ. NCDOH NURSING COLLEGE PHASE 2

DRAWING DESCRIPTION/TEKENING BESKRIVING MV RETICULATION LAYOUT

DRAWING NO./TEKENING NR. P2A/MVD/010/001/MV REV No. A
SCALE/SKAAL 1 : 500 @ A0 DATE/DATUM JULY 2024

DESIGN ONTWERP	H. Jonck
DRAWN GETEKEN	H. Leemans
CHECKED NAGEGAAN	H. Jonck
PROJECT PROJ. NO.	6207-2



Y -27000000
X -3183440000

NOTENOTA:
NO DIMENSIONS ARE TO BE SCALED OFF ANY DRAWINGS. ALL DIMENSIONS ARE TO BE RATIFIED ON SITE PRIOR TO ANY CONSTRUCTION.
GEEN AFMETINGS MAG VAN TEKENINGE GESKAAL WORD NIE. ALLE AFMETINGS MOET OP TERREIN NAGEGAAN WORD VOOR KONSTRUKSIE.

FOR CONSTRUCTION

A BEFORE CONTRACT COMMENCES
VOOR KONTRAK IN AANVAAG NEM.
A1 AFTER CONTRACT HAS COMMENCED
NA KONTRAK IN AANVAAG GENEEM HET.

NO. NR.	DATE DATUM	AMENDMENTS WYSGINGS

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TEL +27 58 622 2942
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Web site: www.hdg.co.za

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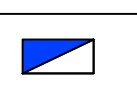



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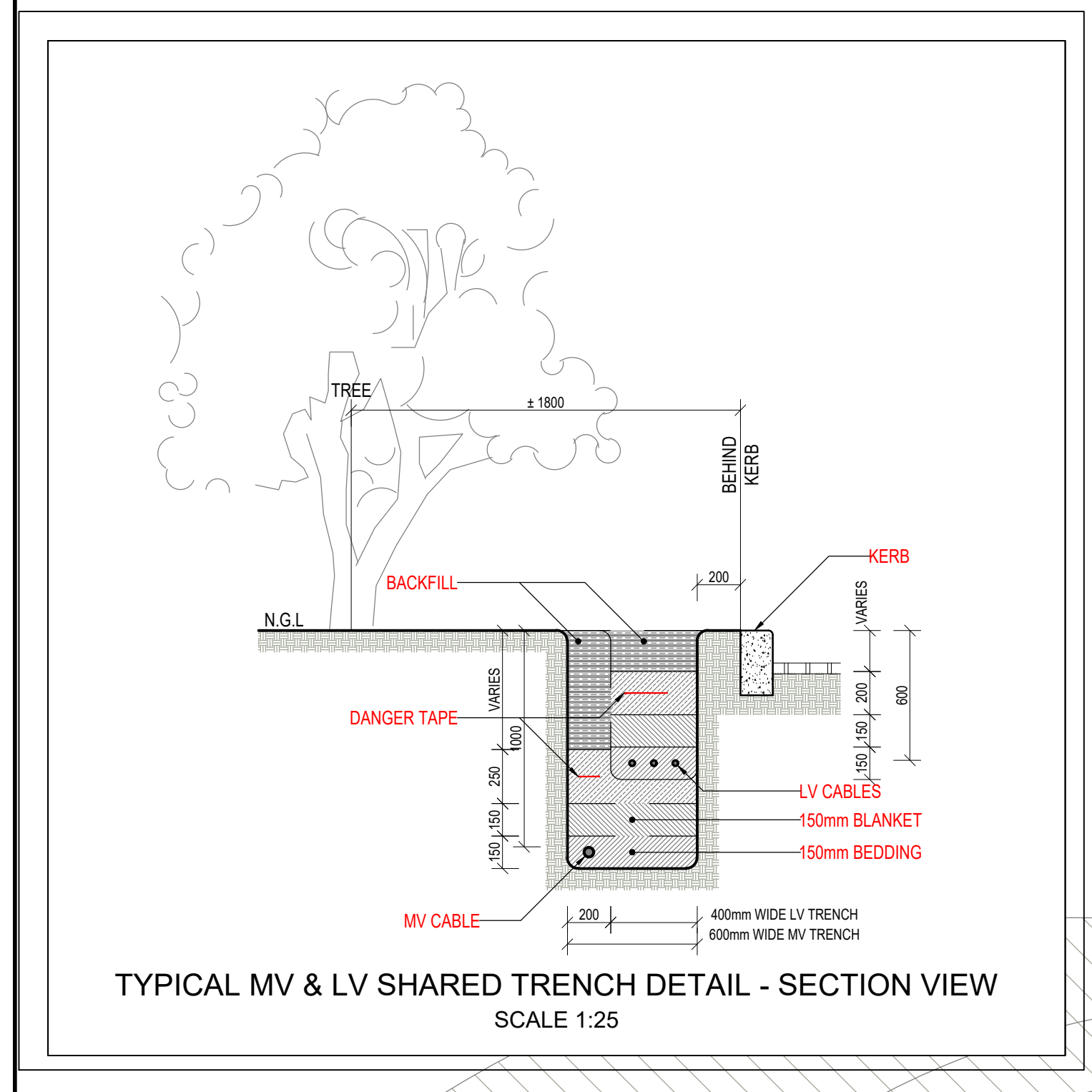
PROJECTPROJEK
**NCDOH NURSING COLLEGE
PHASE 2**

DRAWING DESCRIPTION/TEKENING BESKRIVING
LV RETICULATION LAYOUT

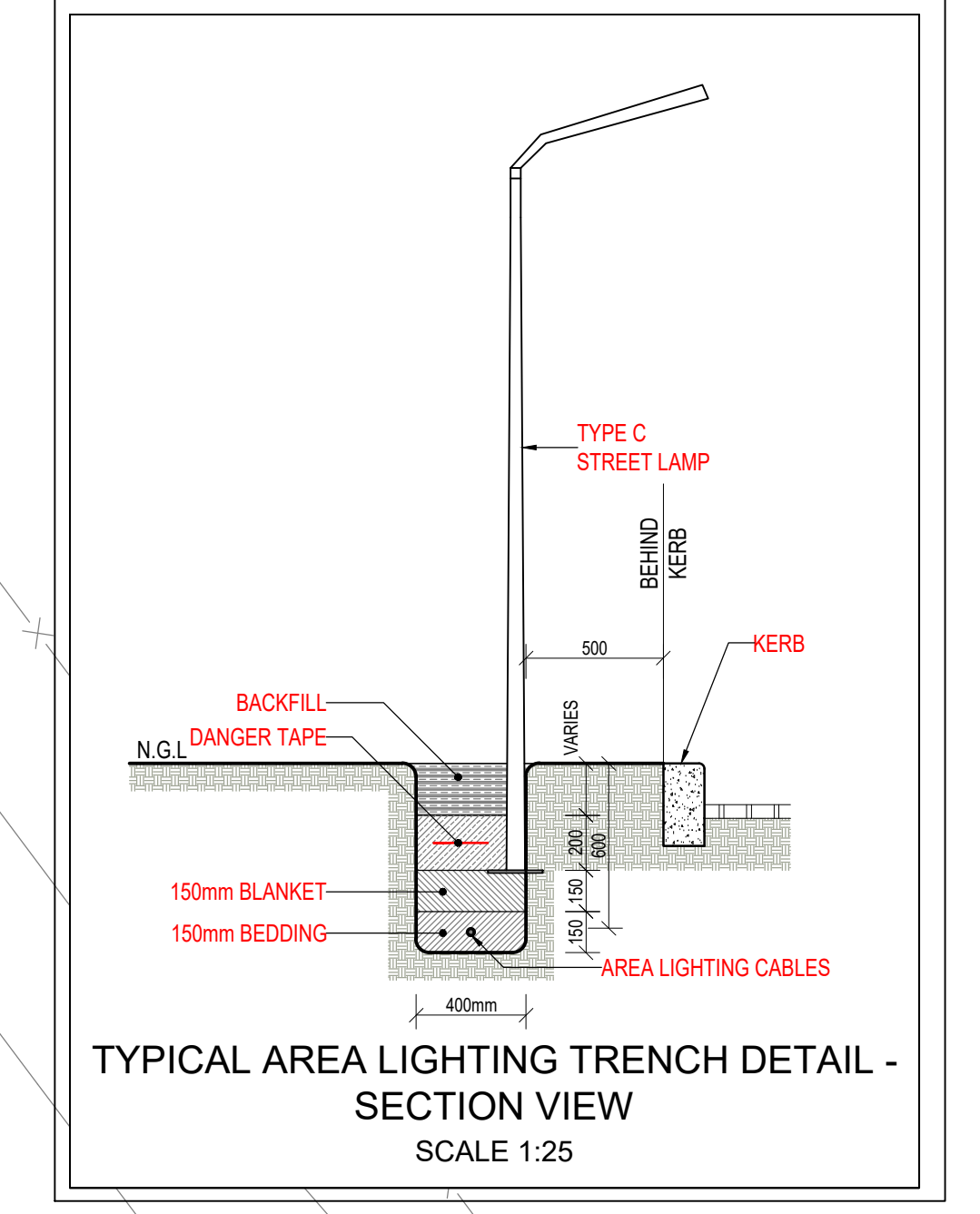
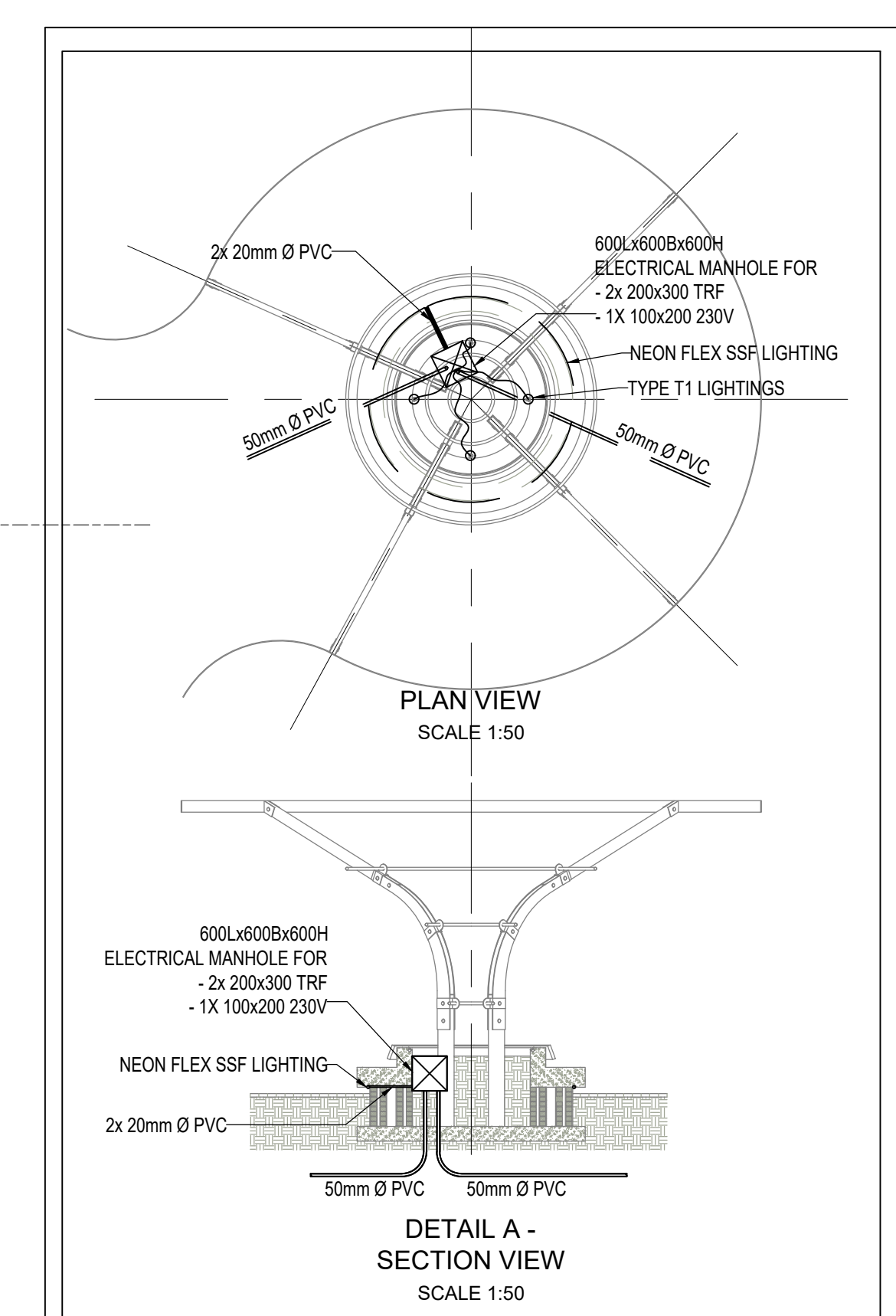
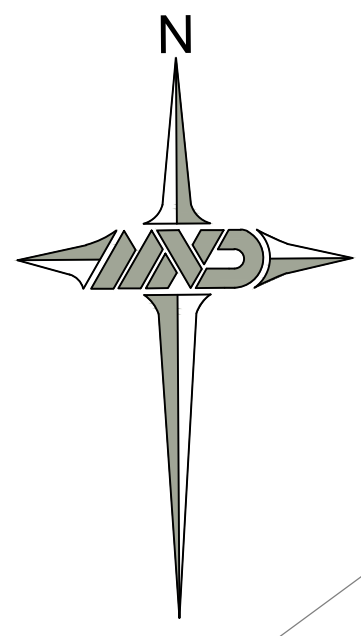
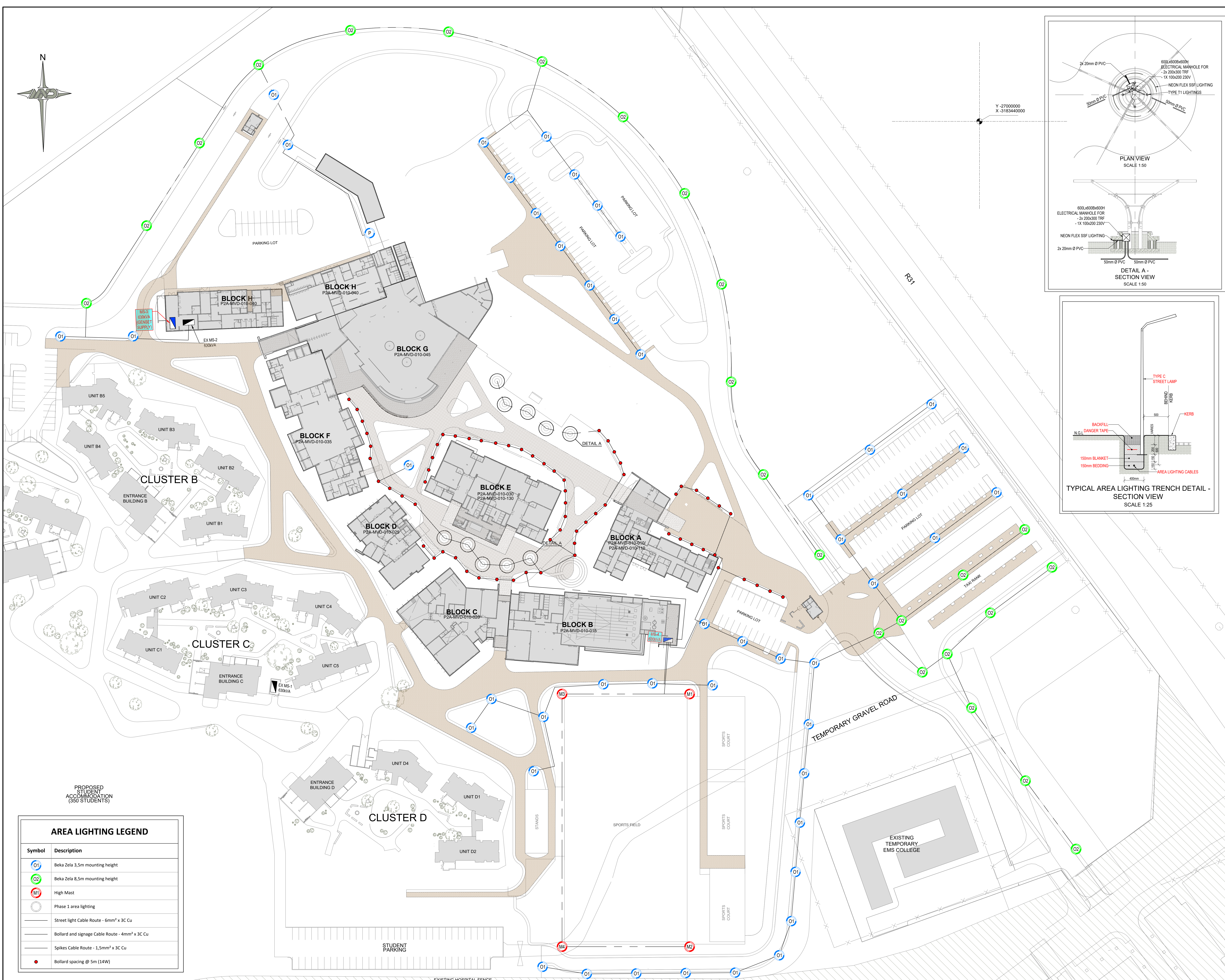
DRAWING NO./TEKENING NR. **P2A/MVD/010/001/LV** REV. NO. --
SCALE/SKAAL **1 : 500 @ A0** DATE/DATUM **Aug 2021**

DESIGN ONTWERP **H. Jonck**
DRAWN GETEKEN **H. Leemans**
CHECKED NAGEGAAN **H. Jonck**
PROJECT PROJEK **6207-2**

LV RETICULATION LEGEND	
Symbol	Description
	New Mini-Sub
	New DB Board
	Emergency LV Cable Route (E)
	Normal LV cable route (N)



EXISTING EXISTING
K3AF R3AU SP6 R3AU



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NO. NR.	DATE DATUM	AMENDMENTS WYSIGINGS
A	JULY 2024	LIGHTS MOVED

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 PHASE 2**

DRAWING DESCRIPTION/TEKENING BESKRIVING
AREA LIGHTING LAYOUT

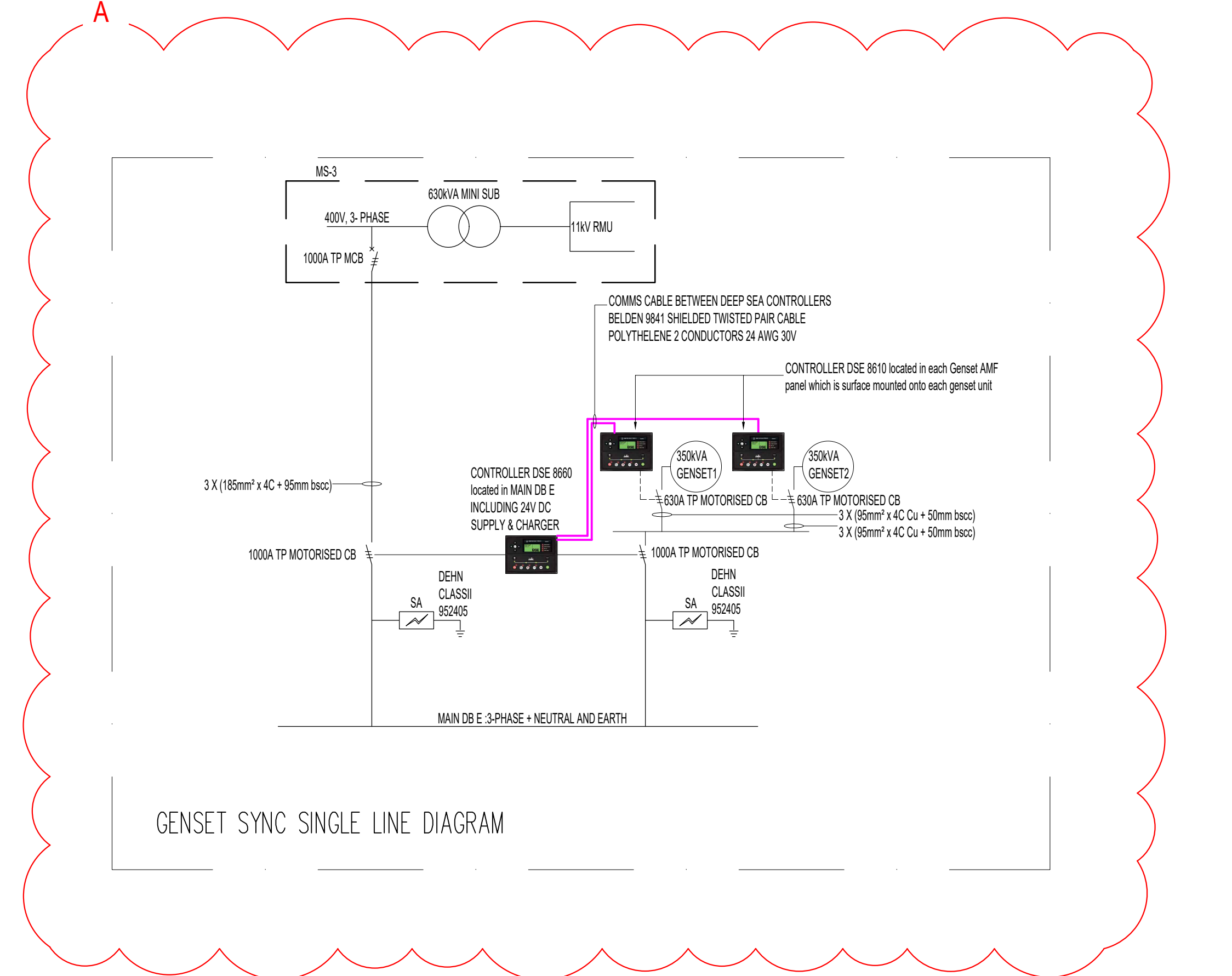
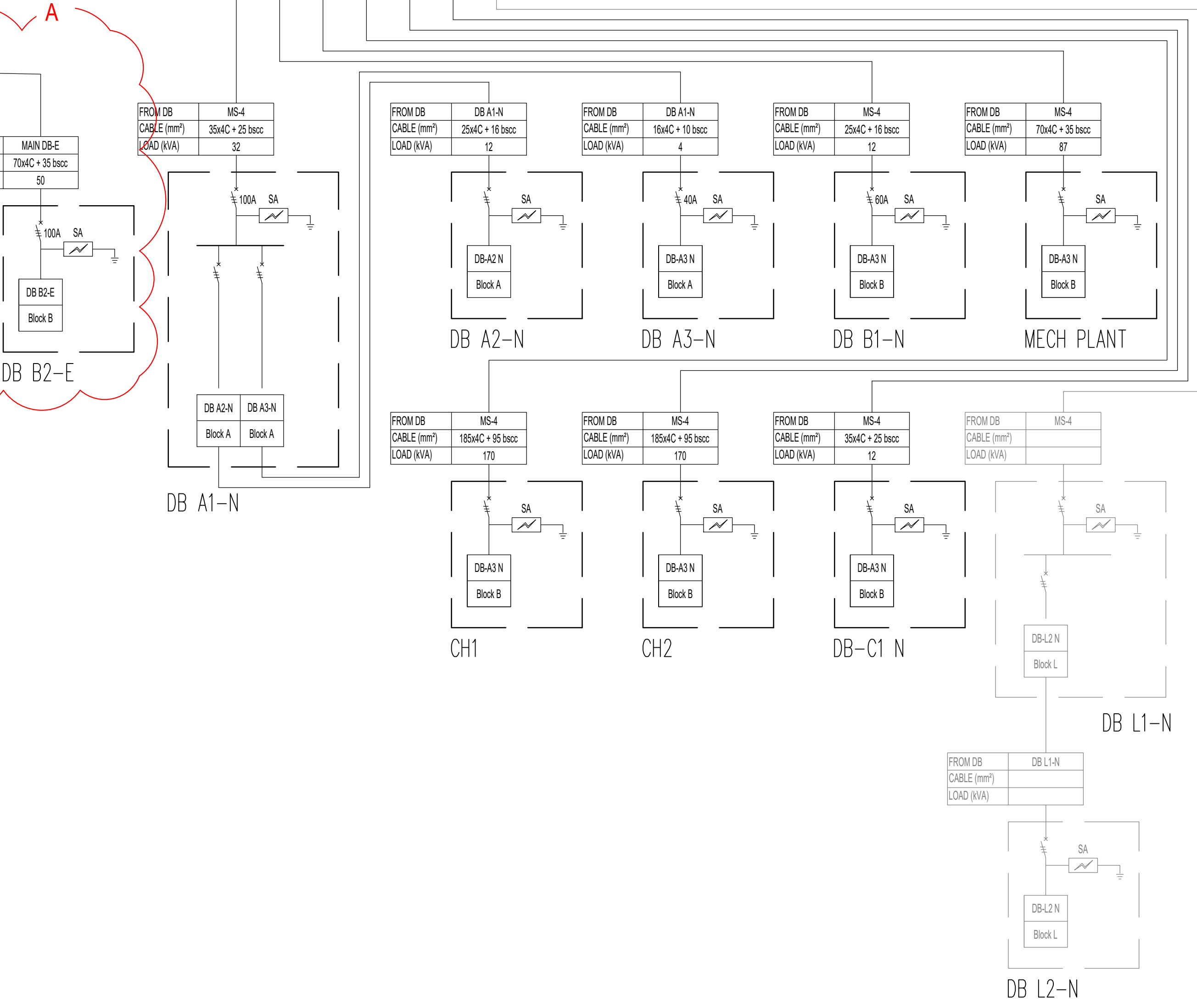
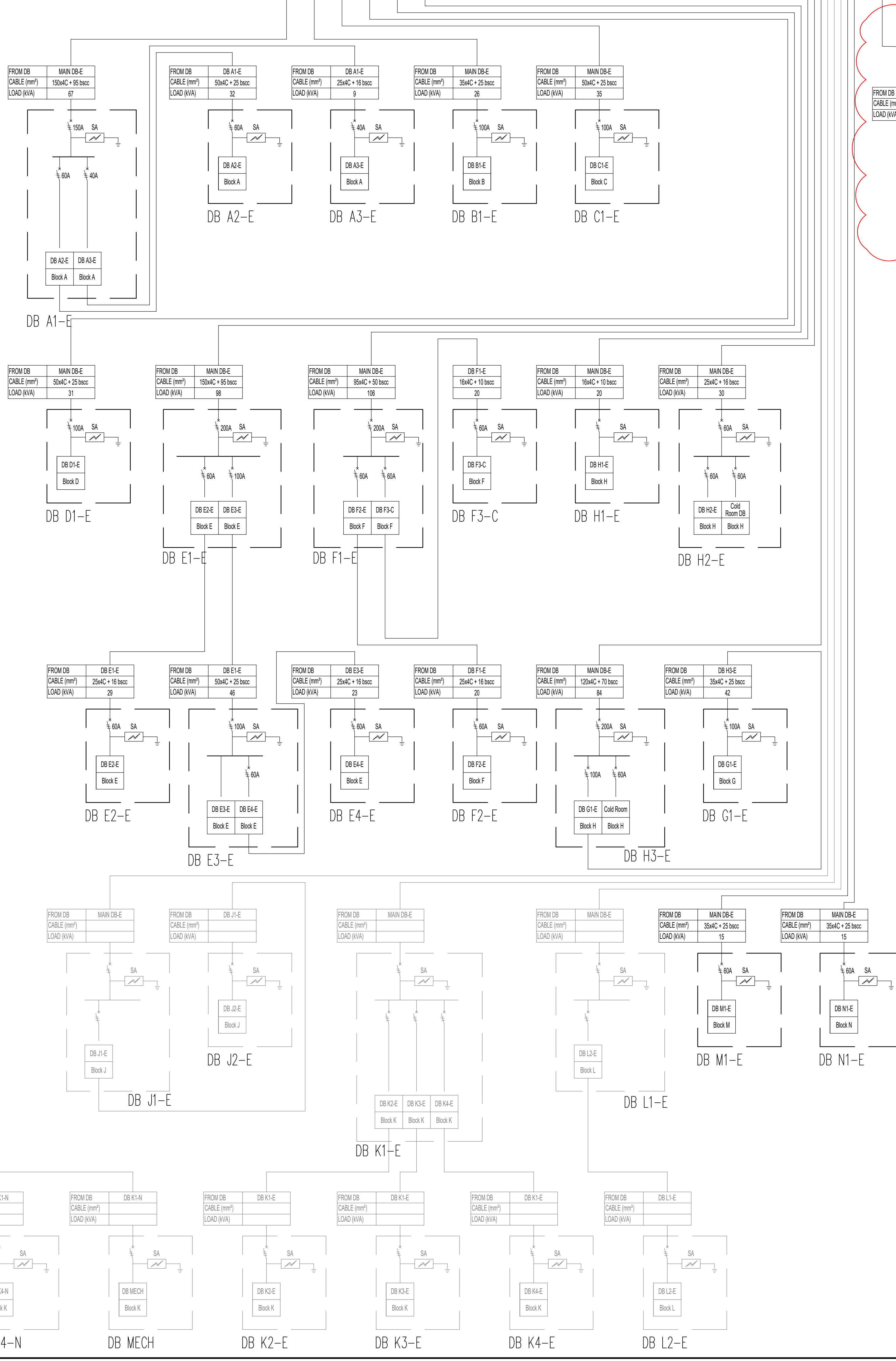
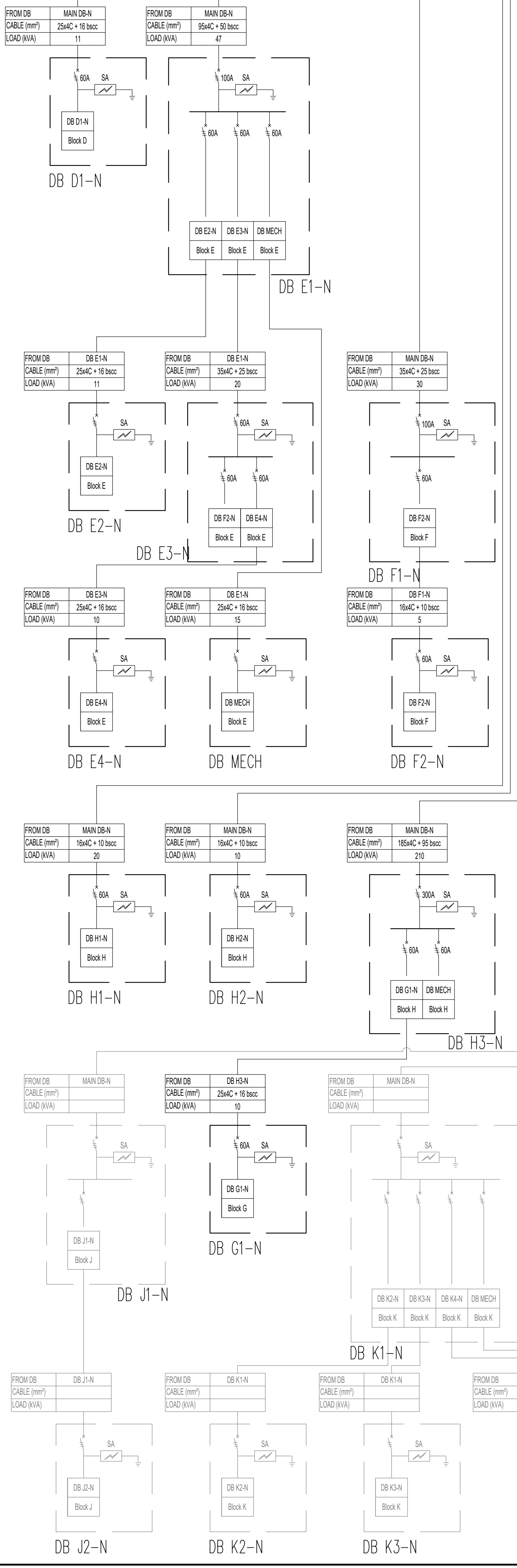
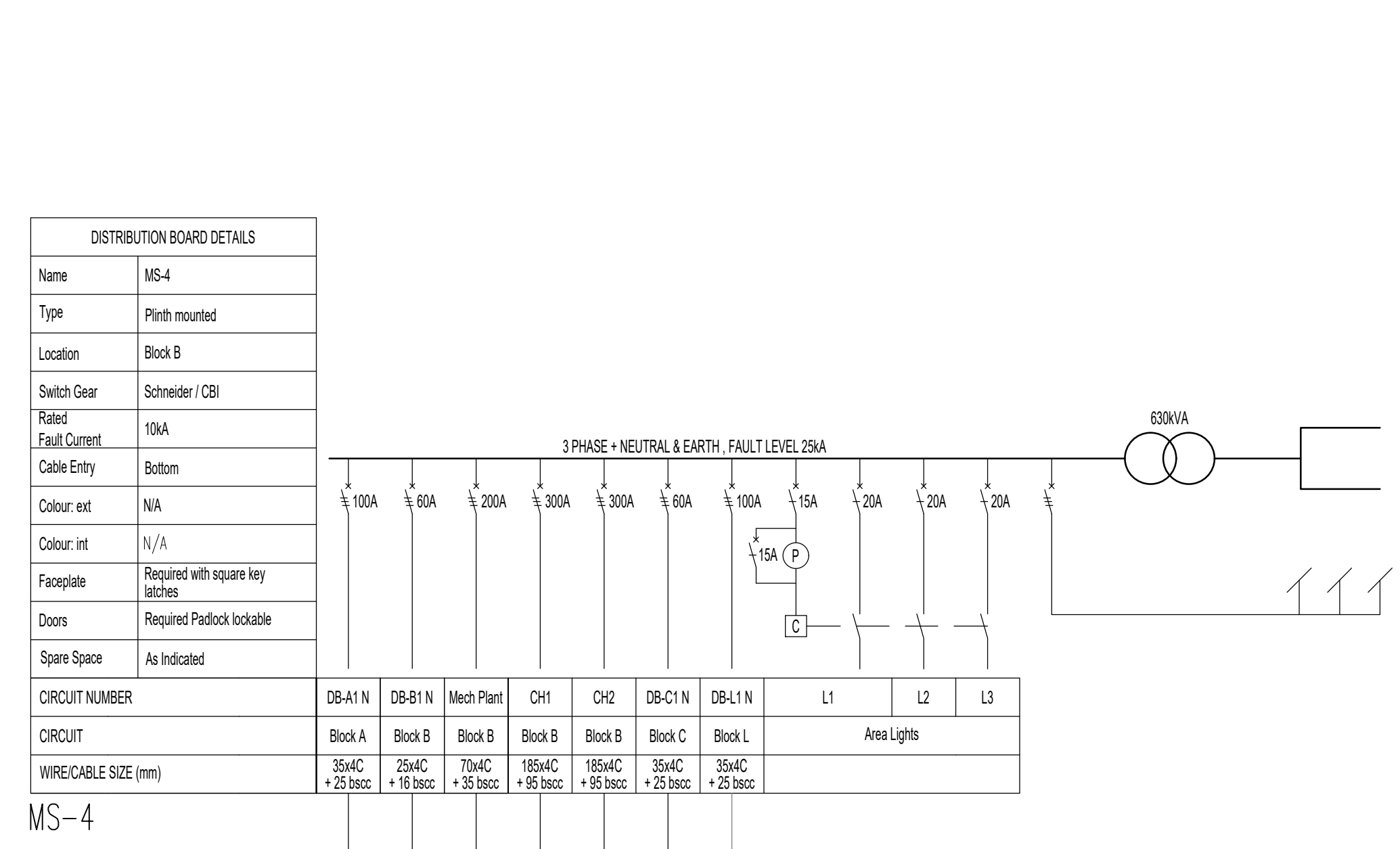
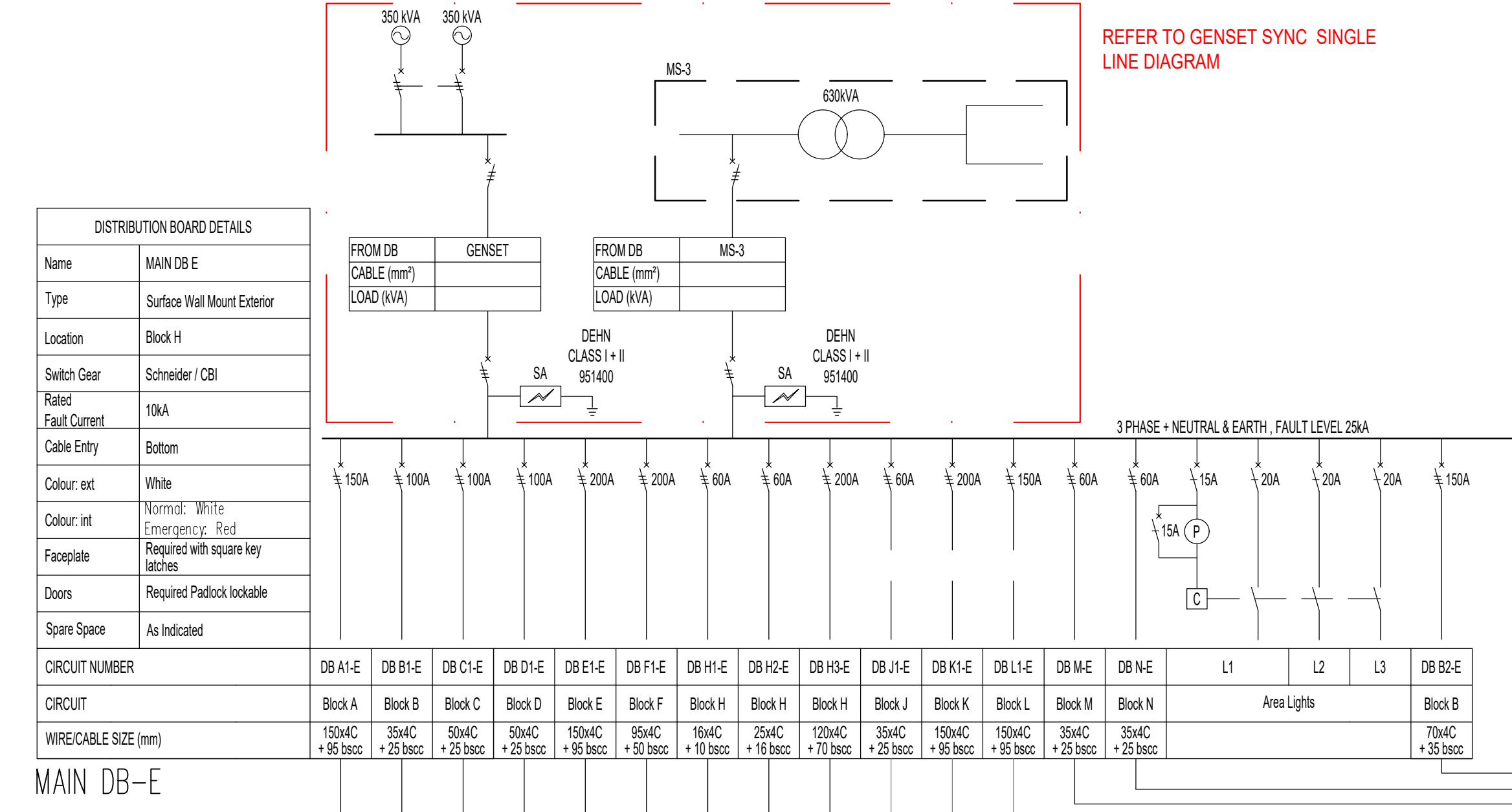
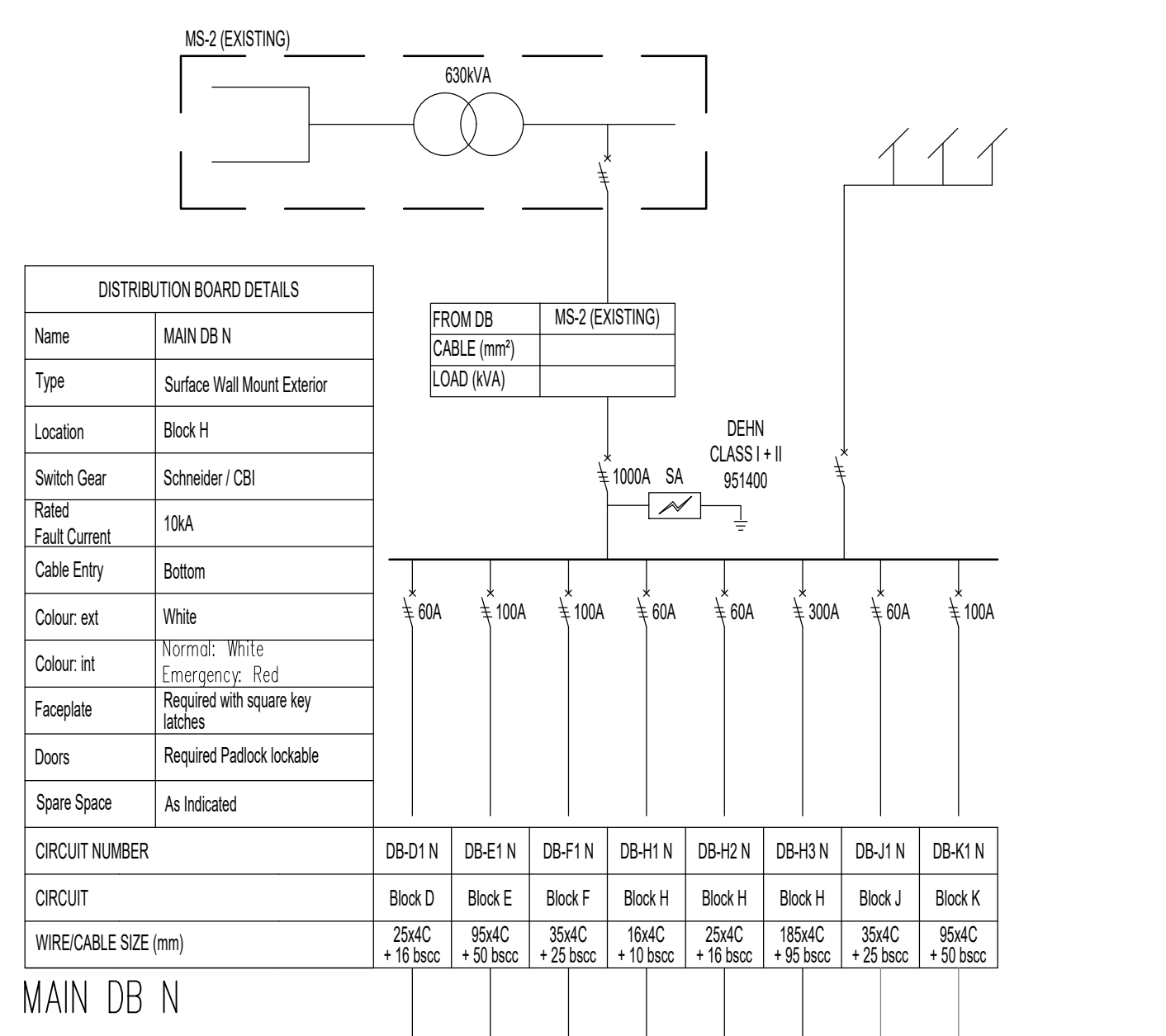
DRAWING NO./TEKENING NR. **P2A/MVD/010/001/AL** REV No. **A**

SCALE/SKALA: **1:500 @ A0** DATE/DATUM: **Aug 2021**

DESIGN ONTWERP	H. Jonck
DRAWN GETEKEN	H. Leemans
CHECKED NAGEGAAN	H. Jonck
PROJECT PROJEC	6207-2

PROPOSED STUDENT ACCOMMODATION (350 STUDENTS)

Symbol	Description
01	Beka Zela 3,5m mounting height
02	Beka Zela 8,5m mounting height
M1	High Mast
○	Phase 1 area lighting
—	Street light Cable Route - 6mm ² x 3C Cu
—	Bollard and signage Cable Route - 4mm ² x 3C Cu
—	Spikes Cable Route - 1,5mm ² x 3C Cu
●	Bollard spacing @ 5m (14W)



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NO. NR.	DATE DATUM	AMENDMENTS WYSGORINGS
A	JULY 2024	NEW NOTES ADDED. DB ADDED AND NEW SINGLE LINE DIAGRAM ADDED.

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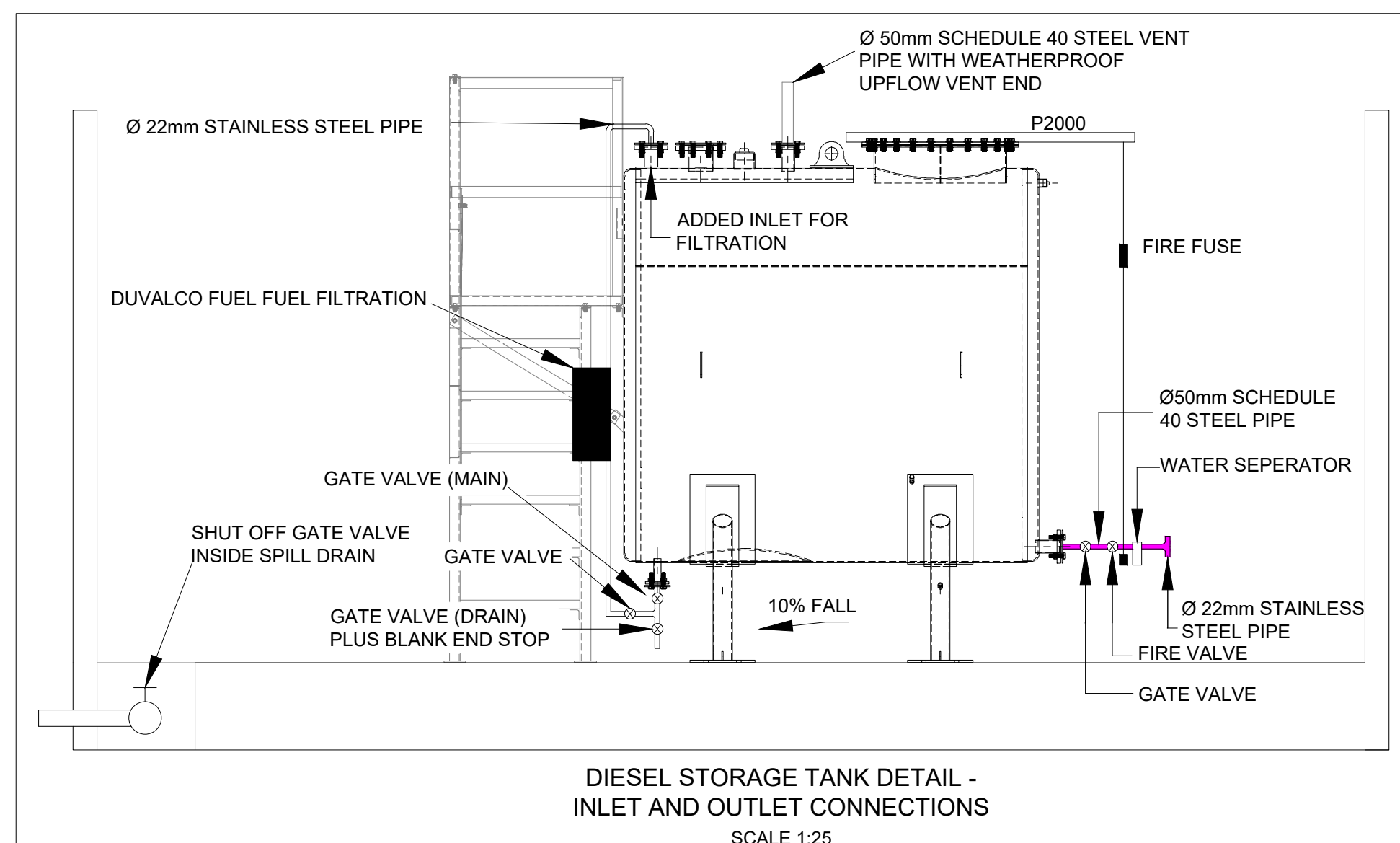
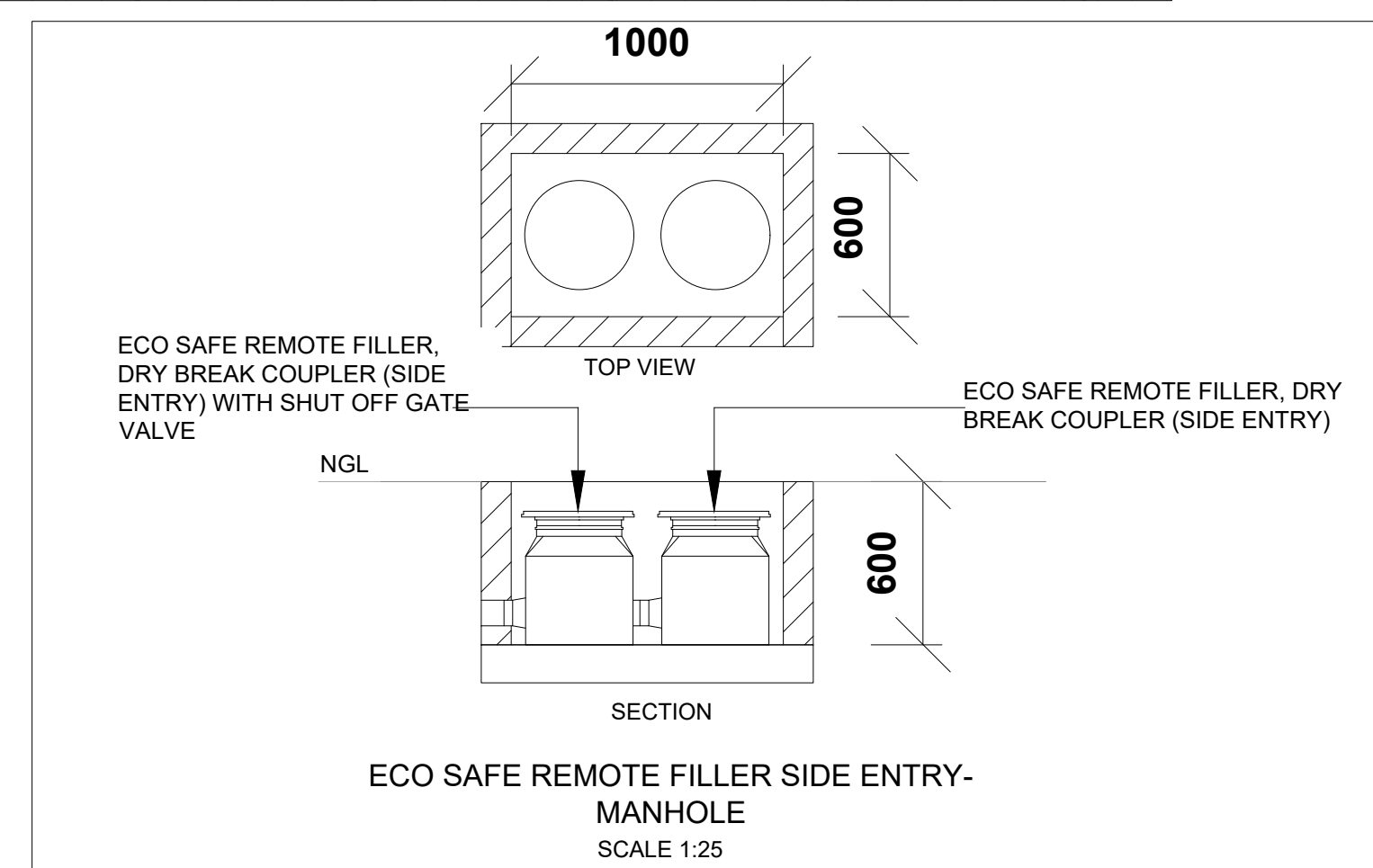
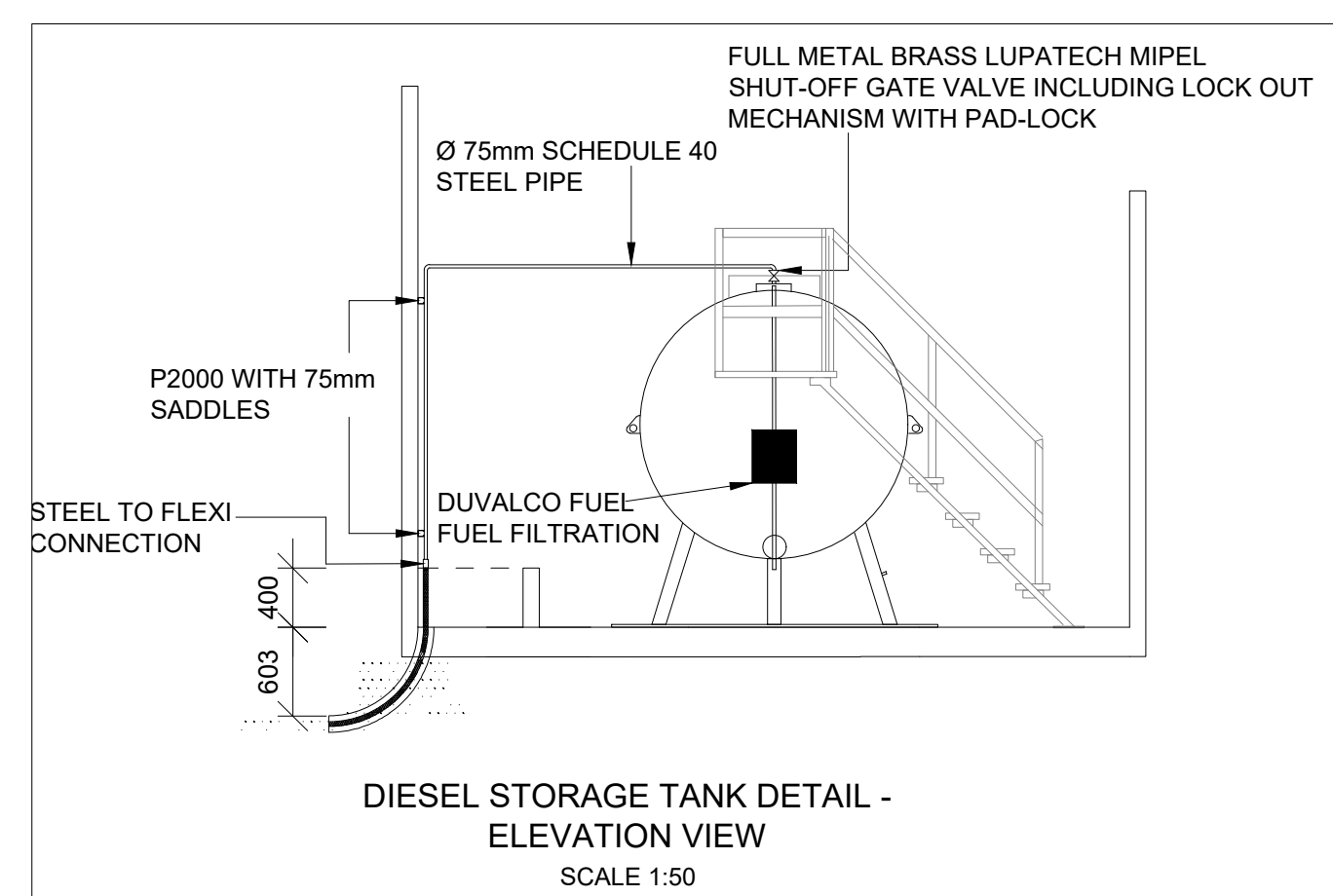
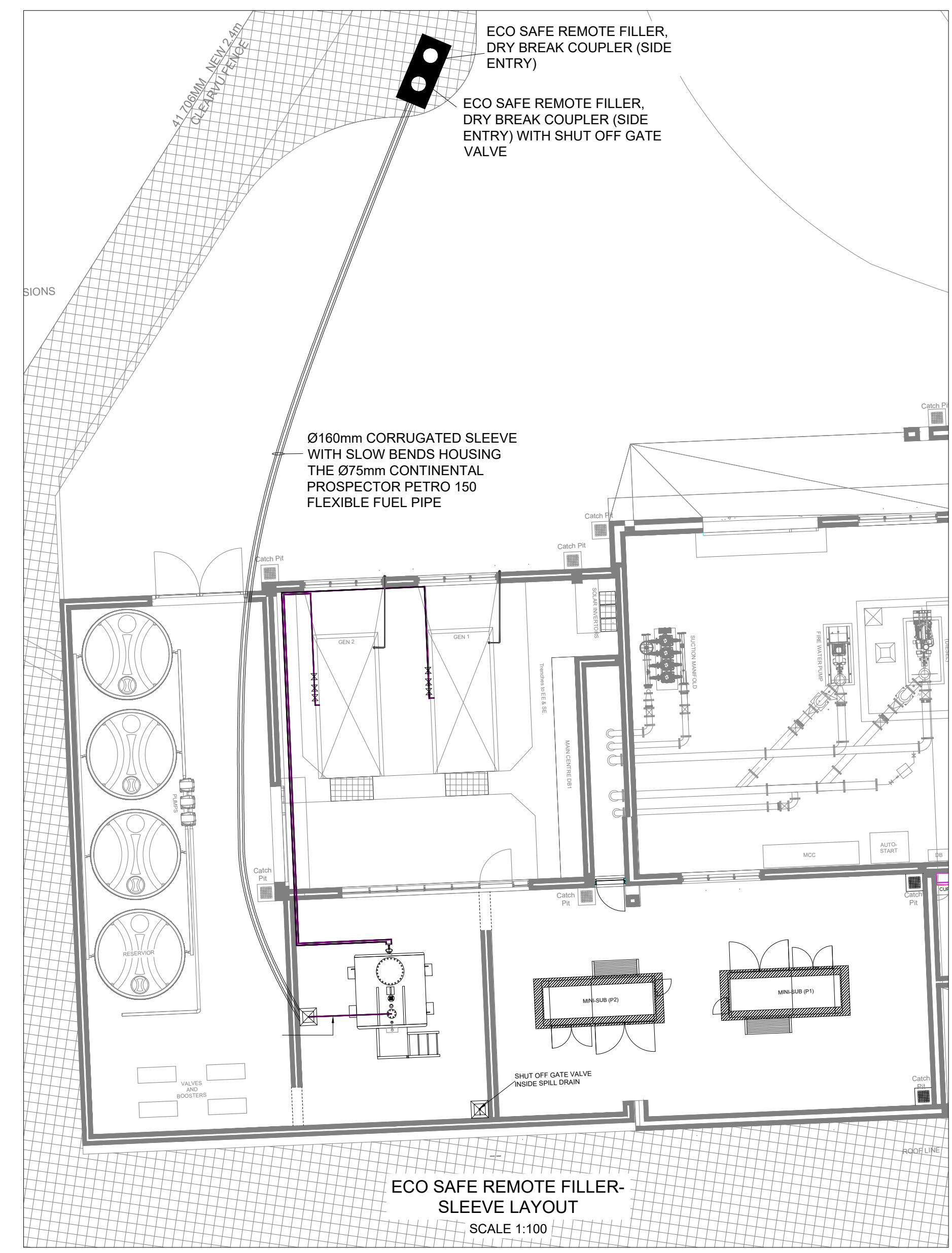
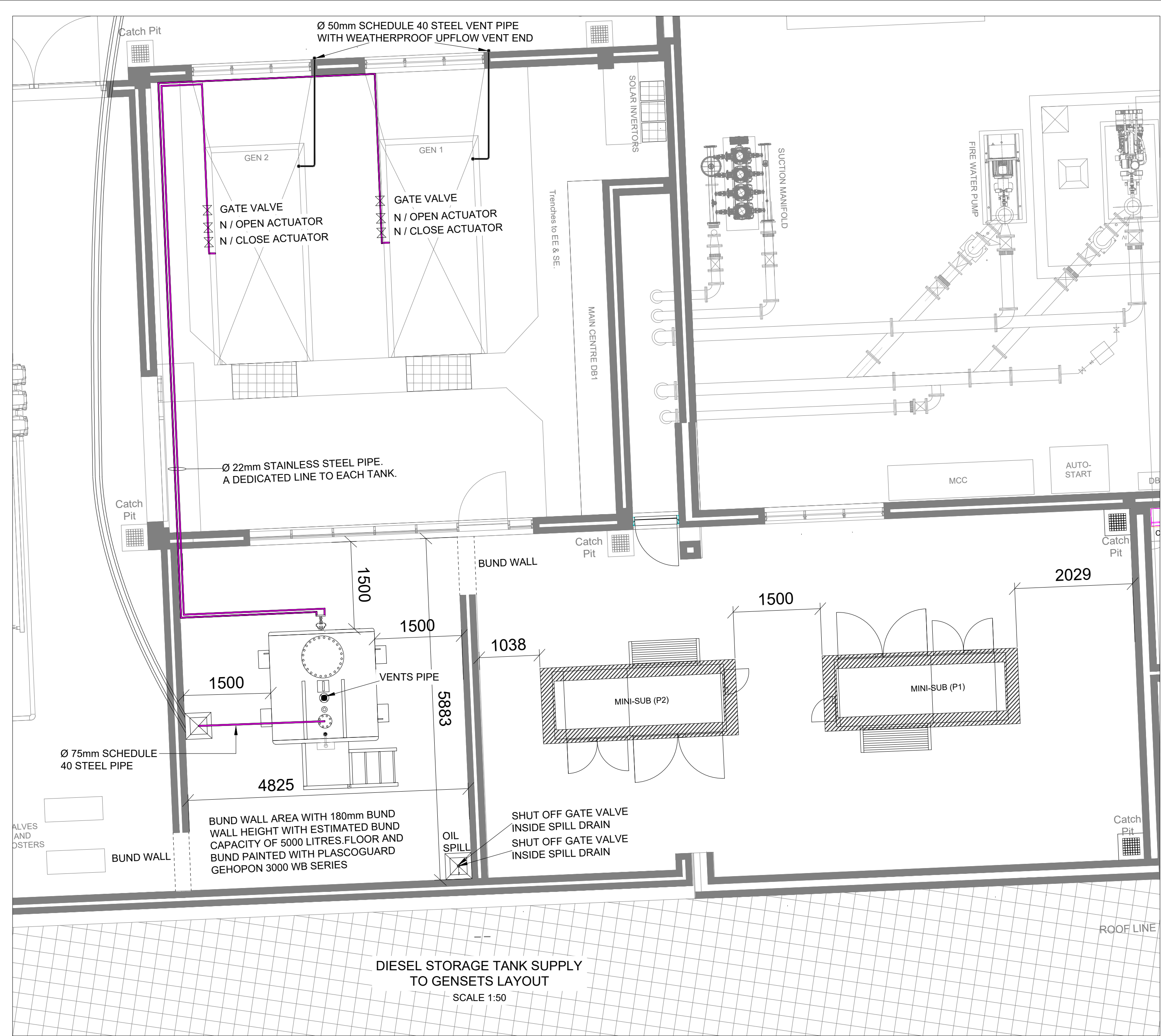
PROJECT/PROEJ:
**NCDOH NURSING COLLEGE
 PHASE 2**

DRAWING DESCRIPTION/TEKENING BESKRIVING
**MV & LV
 SINGLE LINE DIAGRAM**

FROM/NO. /TEKENING NR.
P2A/MVD/010/001/SLD

SCALE/SKAAL: **N.T.S @ A0** DATE/DATUM: **JULY 2024**

DESIGN ONTWERP:	H. Jonck
DRAWN GETEKEN:	H. Leemans
CHECKED NAGEGAAN:	H. Jonck
PROJECT PROJUK:	6207-2




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PROJECT
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 PHASE 2A- ACADEMIC CAMPUS**



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 Web site: www.hdg.co.za

DRAWING DESCRIPTION
**ABOVE GROUND DIESEL STORAGE
 TANK AND FUEL PIPING INSTALLATION**

DESIGN ONTWERP	H. Jonck	PROJECT PROJEK	6207-2
DRAWN GETEKEN	G. Bosman	DATE DATUM	July 2024

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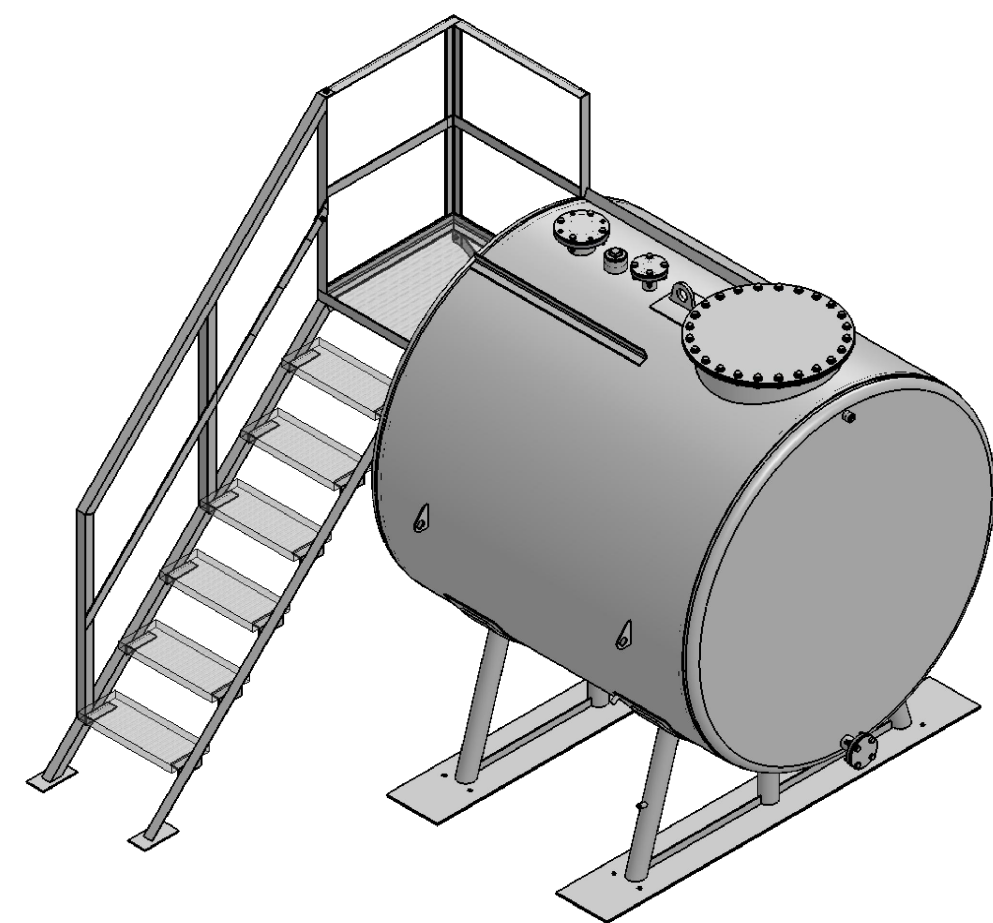


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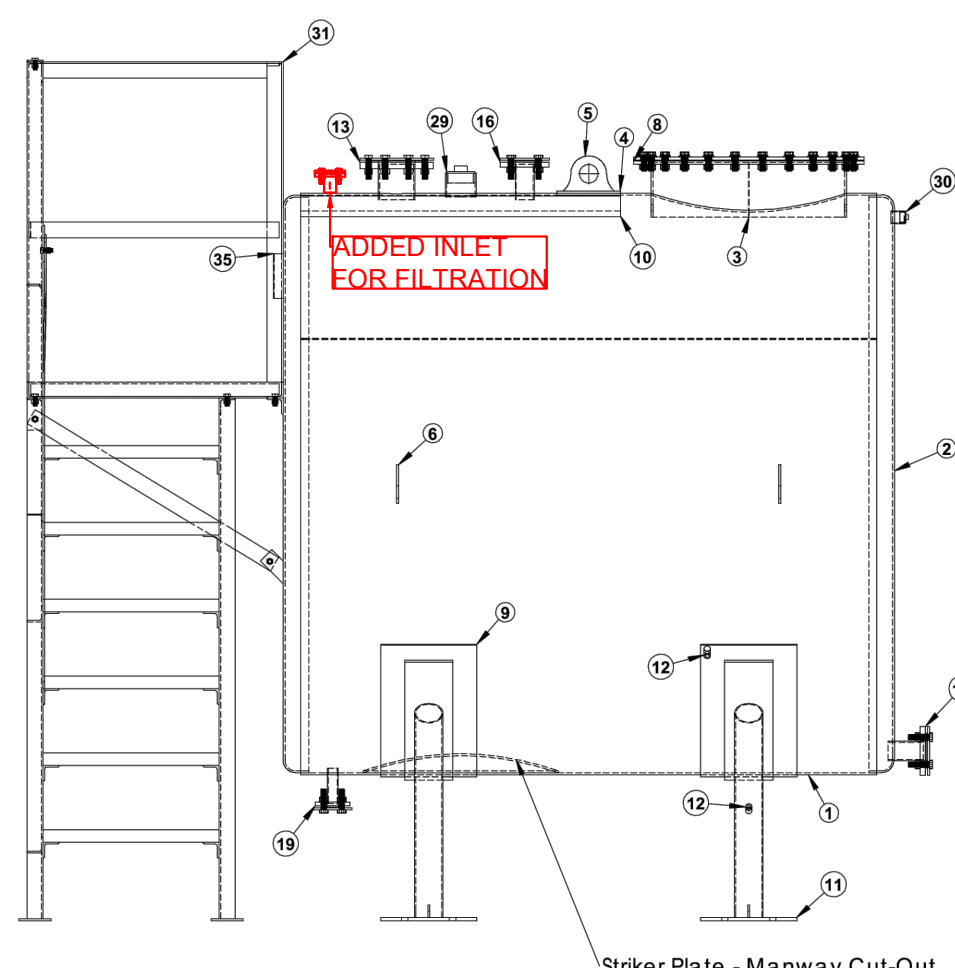
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P2A-MVD-010-040-DS

REV No.

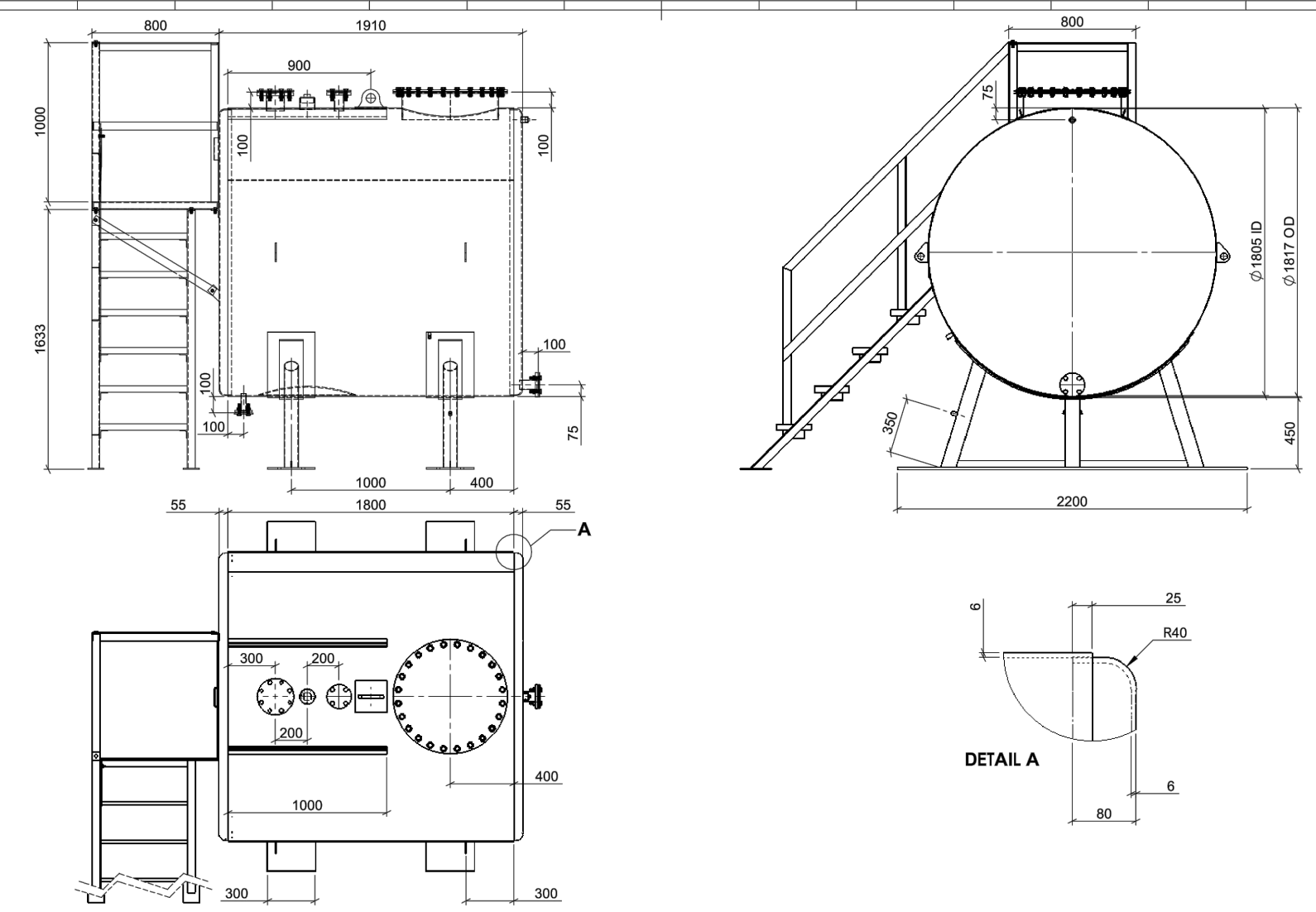
FOR INFORMATION



Design Data	
Design Standard	SANS 10131:2004
Shell Material	6mm SANS 50025-2 GrS355JR
Flanges	ANSI B 16.5 150SA Mild Steel
Piping	SANS 62-1 & SANS 62-2
Leak Test	45 kPa Internal Pneumatic Pressure
External Surface Preparation	Sandblast SA 2.5
External Coating	Paint - Forgeweld Gray
External Surface Coating Test	DFT @ 75µm
Gaskets	3mm Non-asbestos Fibre Ring
Tank Volume (Calculated)	34.84 m ³
Tank Weight (Calculated)	±1560 kg
Overall Length (Calculated)	±1910 mm



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	BRFLA745	Barrel 1800D	1
2	BRND02015	Flat End 1910	2
3	BRMANH000	Manhole Neck Complete	1
4	BRBASE000	Base Plate 200 x 200 x 6mm	1
5	BRUG9000	Lifting Lug 16mm - 23m3	1
6	BRUG9020	Tie Down Lifting Lug	4
7	BRFLAN500	720 O/D Manhole Blank	1
8	BRGASK140	720 Manhole Gasket	1
9	BRDOL8000	Doubling Plate 1800 x 300 x 6	2
10	BRANGL099	Kickplate 50 x 50 x 5 x 1000	1
11	BRCALD050	Cradle 1605	2
12	BRSD05000	M12 Earthing Boss	2
13	BRSTU8000	100mm Stub Flange	1
14	BRFLAN105	100mm Blank	1
15	BRGASK000	100mm Gasket	1
16	BRSTUB015	50mm Stub Flange	2
17	BRFLAN335	50mm Blank	2
18	BRGASK095	50mm Gasket	2
19	BRSTUB010	25mm Stub Flange	1
20	BRFLAN265	25mm Blank	1
21	BRGASK050	25mm Gasket	1
22	BRSLB4000	Isolator Bush	24
23	BRBOLT105	M16 Flat Washer	24
24	BRBOLT150	M16 x 50 Bolt	24
25	BRBOLT160	M16 x 65 Bolt	18
26	BRBOLT110	M16 Nut	40
27	BRBOLT065	M12 x 30 Bolt	8
28	BRBOLT050	M12 Nut	8
29	BRSDCK130	80NB Steam Socket Wrought Steel	1
30	BRSDCK090	25NB Steam Socket Wrought Steel	1
31	BRPLAT005	4.5 - 14m3 Platf & Staircase	1
32	BRANGL055	Platform Mounting Bracket	1
33	BRFLAT130	50 x 5 Flat Bar	1
34	BRFLAT130	50 x 5 Flat Bar	1
35	BRNAME015	Name Plate Bracket	1



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APPROV		

FORGEWELD
LEADERS IN STEEL TANK MANUFACTURE, SINCE 1963.

FILE: FORGEWELD STD - 4.5kL AST
3D View
DRAW NO: BFTANK225-rev1
SHEET 1 OF 4

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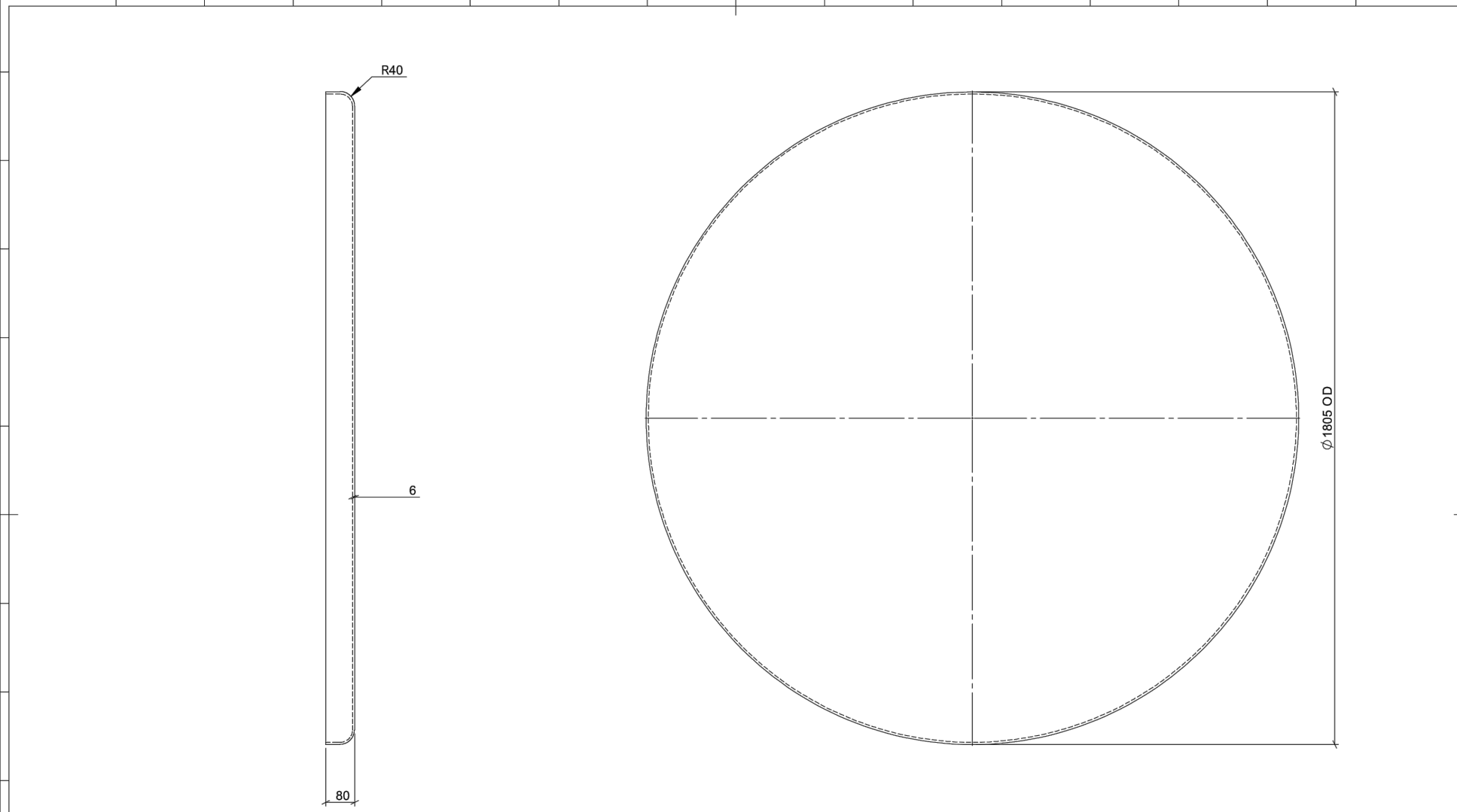
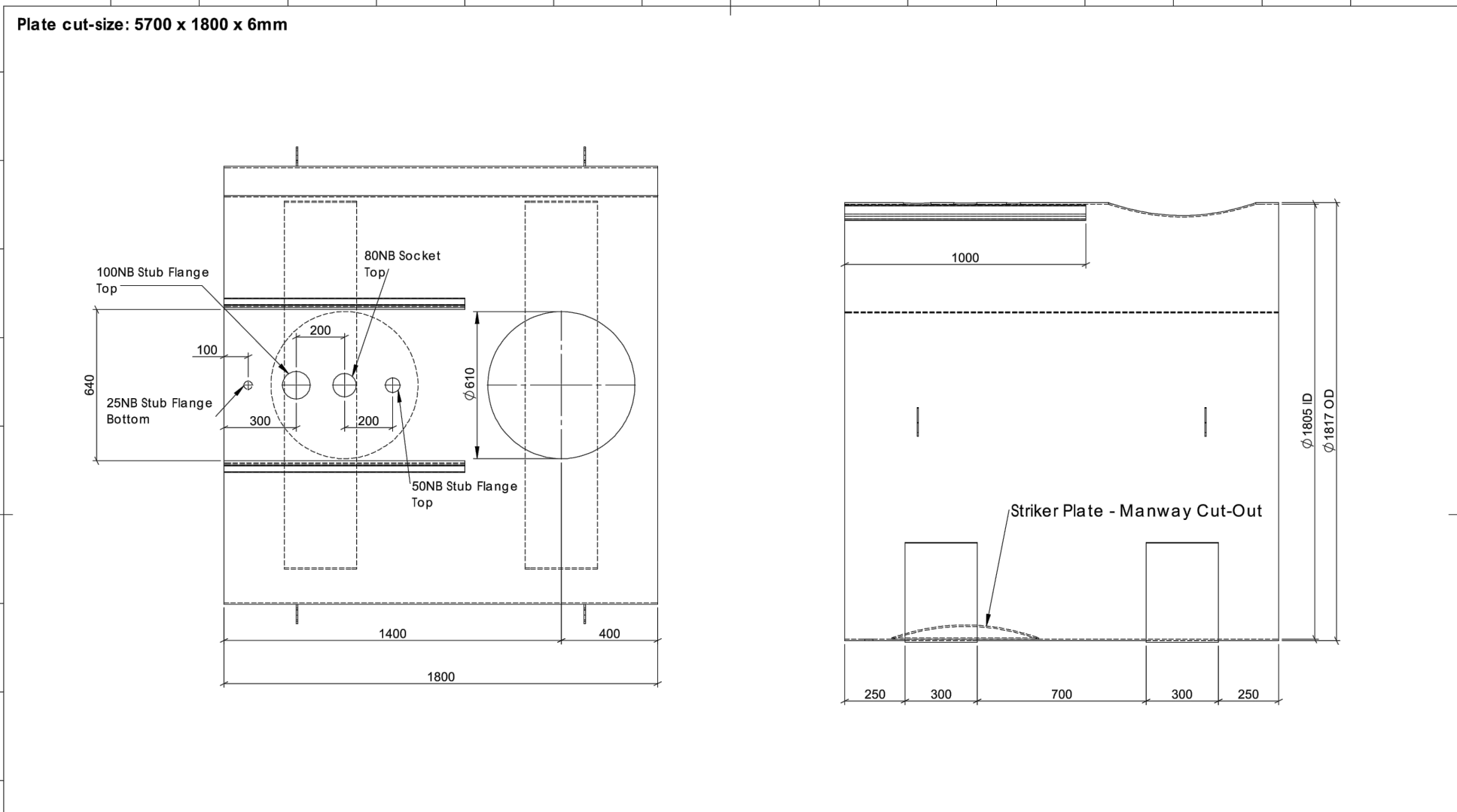
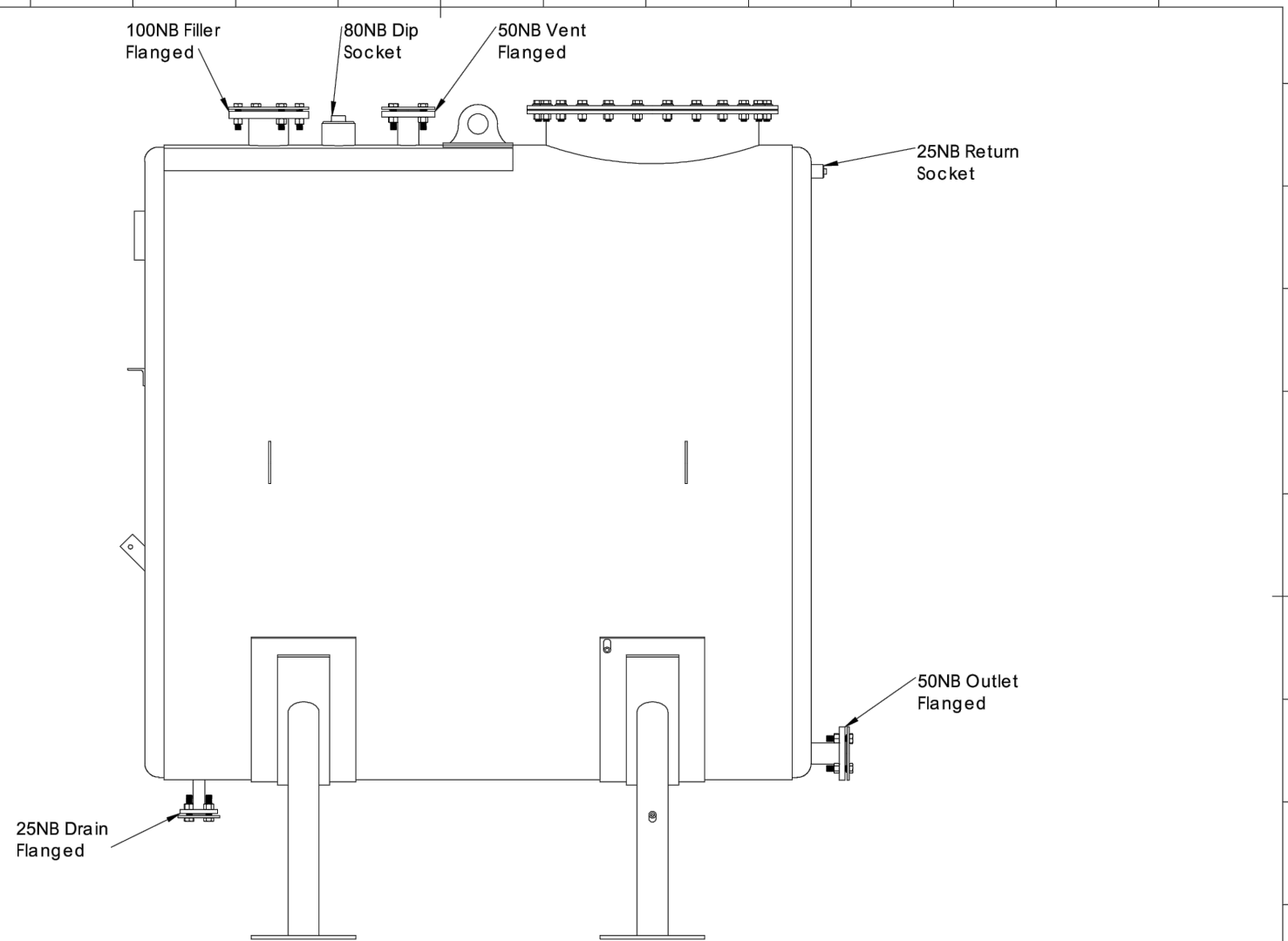
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General Arrangement Drawing
DRAW NO: BFTANK225-rev1
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General Arrangement Drawing
DRAW NO: BFTANK225-rev1
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FORGEWELD
LEADERS IN STEEL TANK MANUFACTURE, SINCE 1963.

FILE: FORGEWELD STD - 4.5kL AST
Nozzle Arrangement Drawing
DRAW NO: BFTANK225-rev1
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FORGEWELD
LEADERS IN STEEL TANK MANUFACTURE, SINCE 1963.

FILE: FORGEWELD STD - 4.5kL AST
Tank Shell Detail
DRAW NO: BFTANK225-rev1
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FORGEWELD
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FILE: FORGEWELD STD - 4.5kL AST
Tank End Detail
DRAW NO: BFTANK225-rev1
SHEET 1 OF 4

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NO.	DATE	AMENDMENTS

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PROJECT
KIMBERLEY NURSING COLLEGE
PHASE 2A- ACADEMIC CAMPUS

OMEGA BUILDING
57 WARDEN STREET
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PO Box 762
TEL: +27 56 622 3942
FAX: +27 56 623 0844
e-mail: hdg@hdg.co.za
Web site: www.hdg.co.za

DRAWING DESCRIPTION
ABOVE GROUND DIESEL STORAGE
TANK AND FUEL SPECIFICATIONS

DESIGN ONTWERP	H. Jonck	PROJECT PROJEK	6207-2
DRAWN GETEKEN	G. Bosman	DATE DATUM	JULY 2024

MVD Kalahari
Consulting Engineers and Town Planning/Raadgewende Ingenieurs en Stadsbeplanning.

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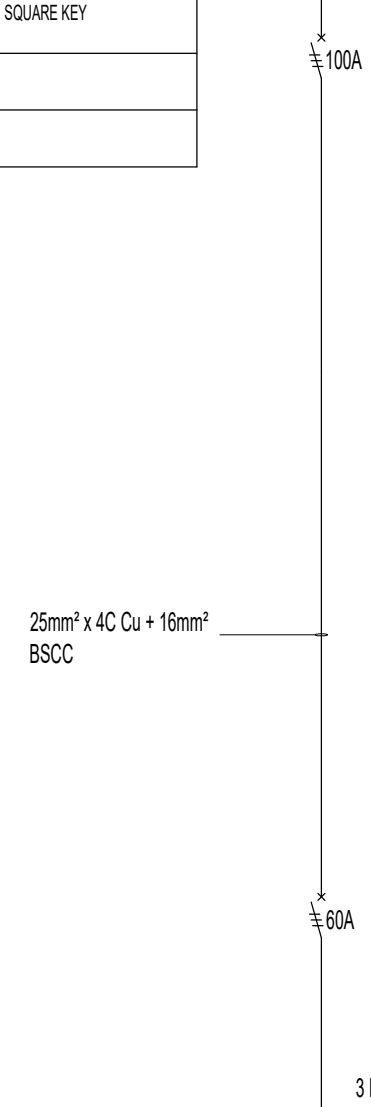
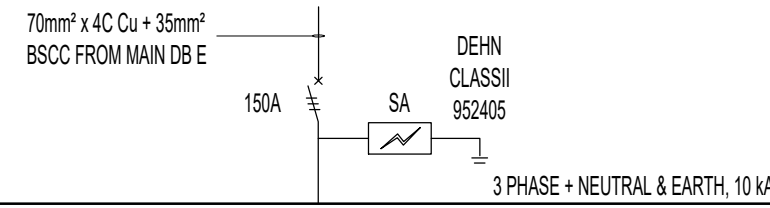
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DRAWING No.
P2A-MVD-010-040-D

REV No.

FOR INFORMATION

DISTRIBUTION BOARD DETAILS	
NAME	DB B2 E
TYPE	SURFACE WALL MOUNTED OUTDOOR-WEATHERPROOF
LOCATION	BLOCK B-PLANT ROOM
SWITCH GEAR	SCHNEIDER / CBI
RATED FAULT CURRENT	6kA
CABLE ENTRY	BOTTOM
COLOUR: EXT	SIGNAL RED
Colour: int	NORMAL-WHITE
FACEPLATE	REQUIRED WITH SQUARE KEY LATCHES
DOORS	YES
SPARE SPACE	30%

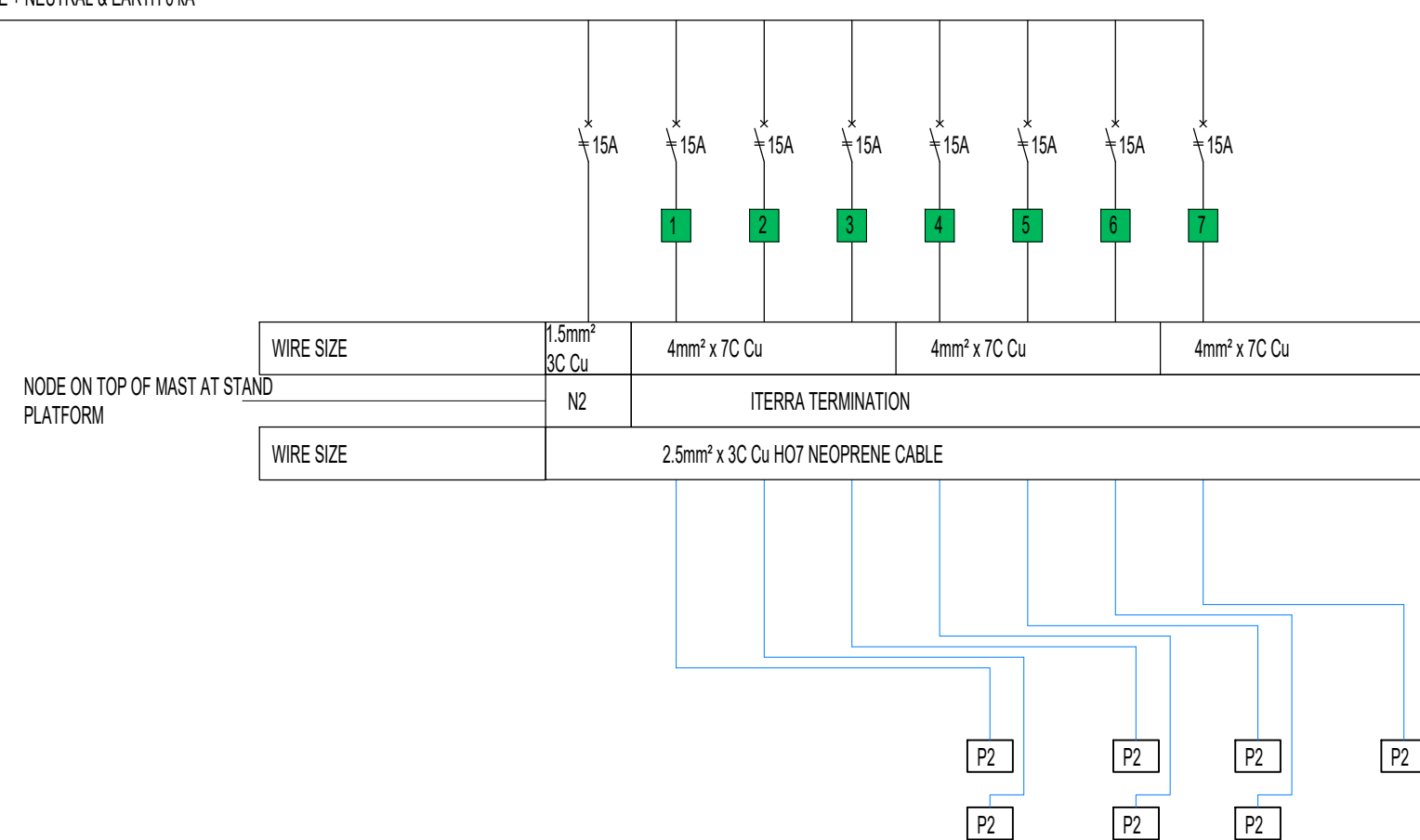
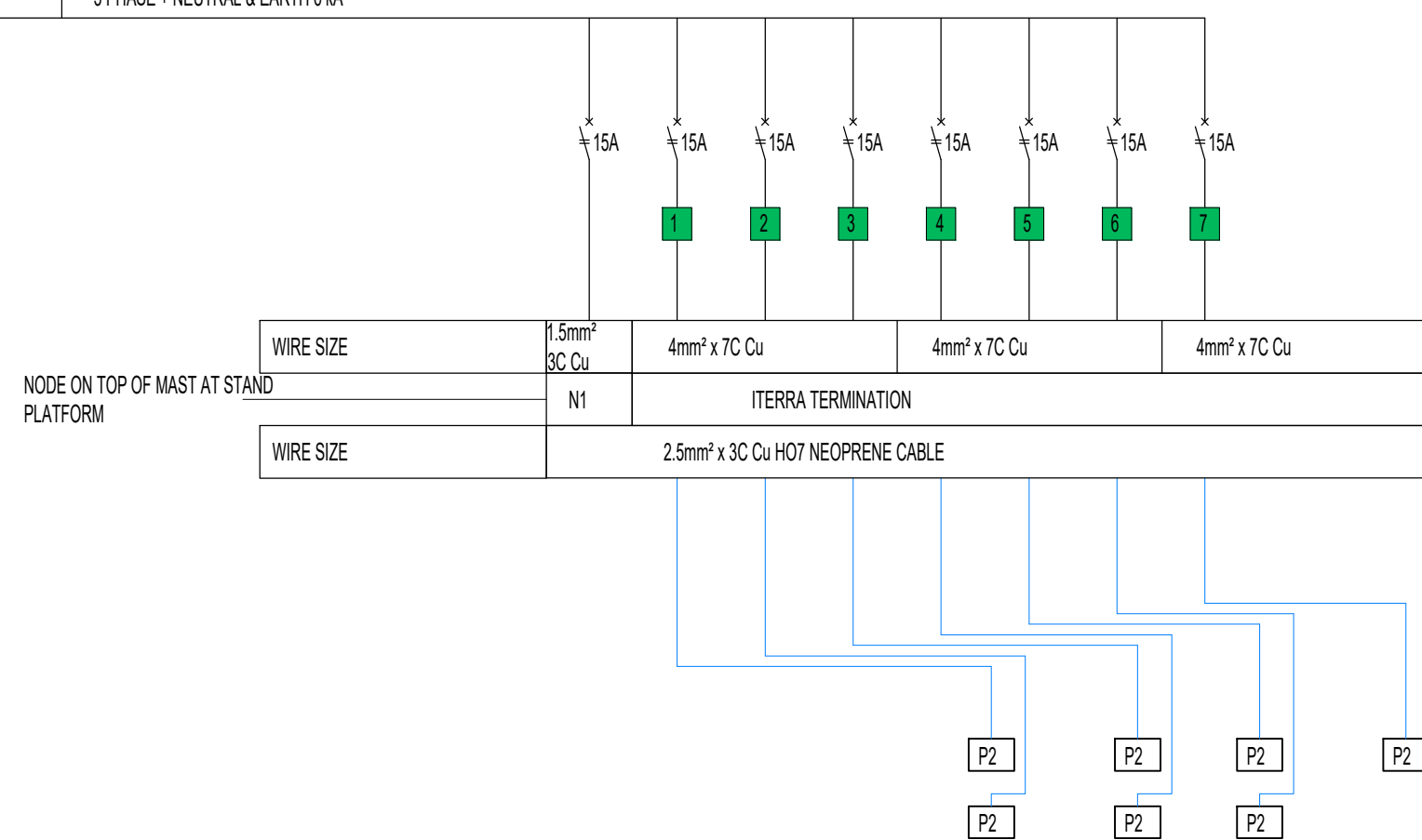


DISTRIBUTION BOARD DETAILS	
NAME	MAST 1 DB
TYPE	SURFACE IN MAST
LOCATION	INSIDE MAST
SWITCH GEAR	SCHNEIDER / CBI
RATED FAULT CURRENT	6kA
CABLE ENTRY	BOTTOM
COLOUR: EXT	SIGNAL RED
Colour: int	NORMAL-WHITE
FACEPLATE	REQUIRED WITH SQUARE KEY LATCHES
DOORS	YES
SPARE SPACE	30%

CIRCUIT NUMBER	
CIRCUIT DESCRIPTION	
WIRE SIZE	

DISTRIBUTION BOARD DETAILS	
NAME	MAST 2 DB
TYPE	SURFACE IN MAST
LOCATION	INSIDE MAST
SWITCH GEAR	SCHNEIDER / CBI
RATED FAULT CURRENT	6kA
CABLE ENTRY	BOTTOM
COLOUR: EXT	SIGNAL RED
Colour: int	NORMAL-WHITE
FACEPLATE	REQUIRED WITH SQUARE KEY LATCHES
DOORS	YES
SPARE SPACE	30%

CIRCUIT NUMBER	
CIRCUIT DESCRIPTION	
WIRE SIZE	

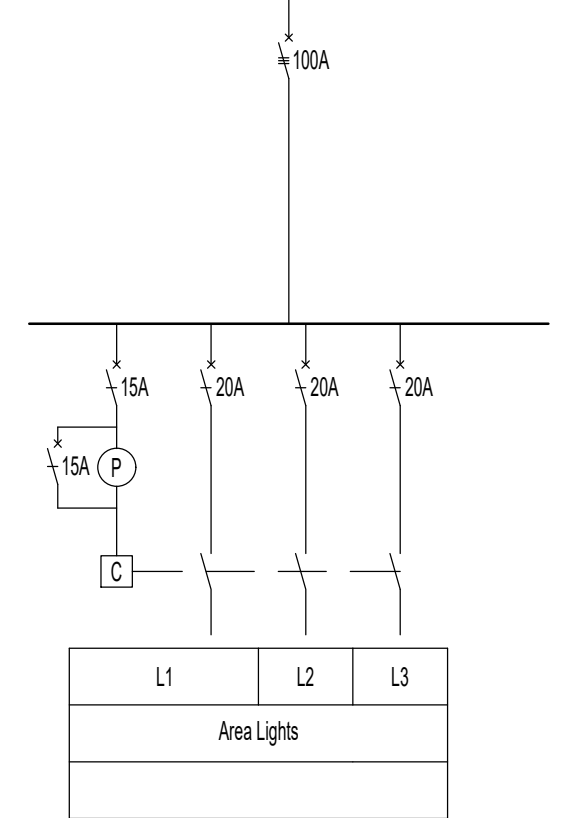
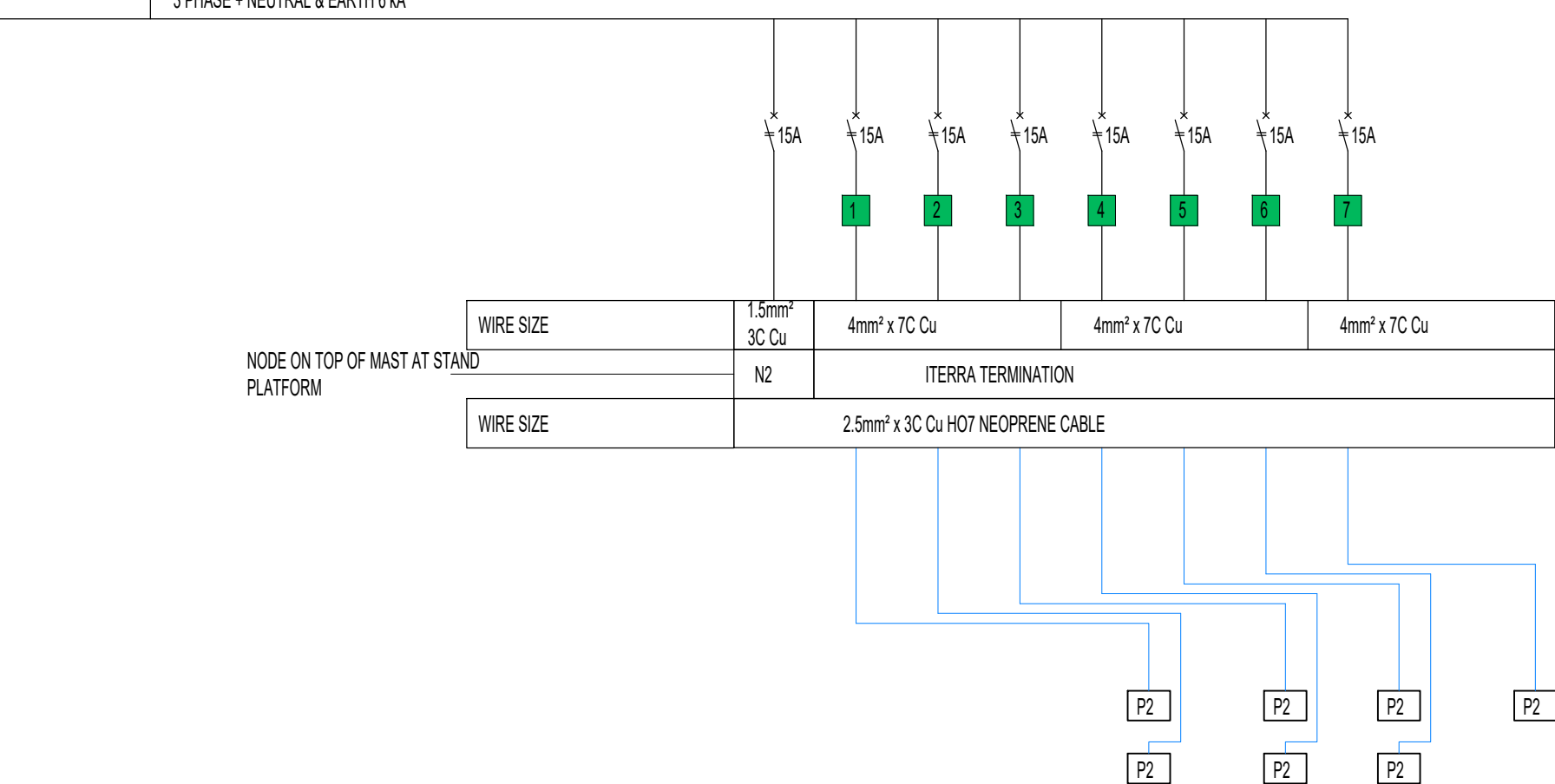
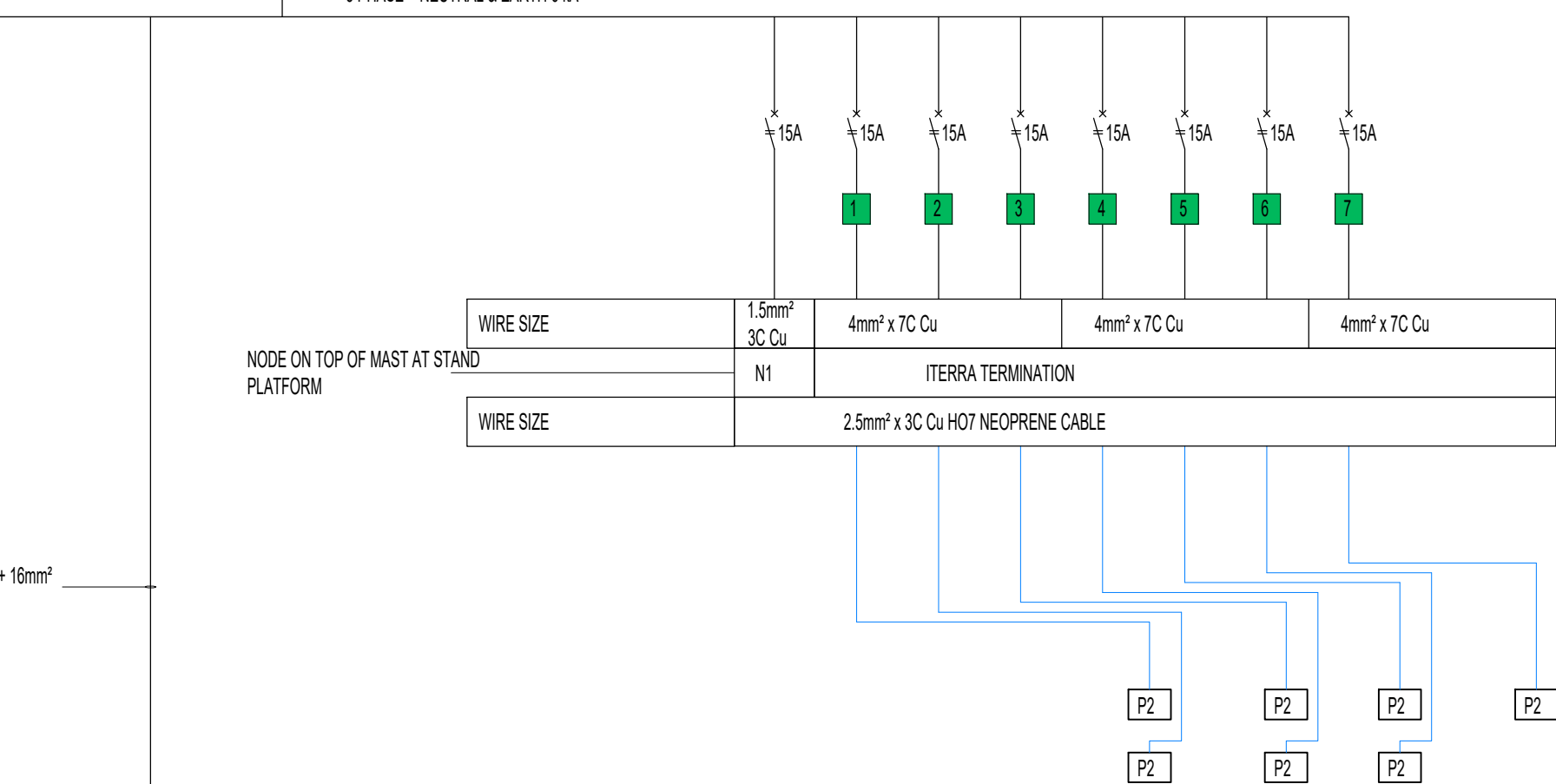
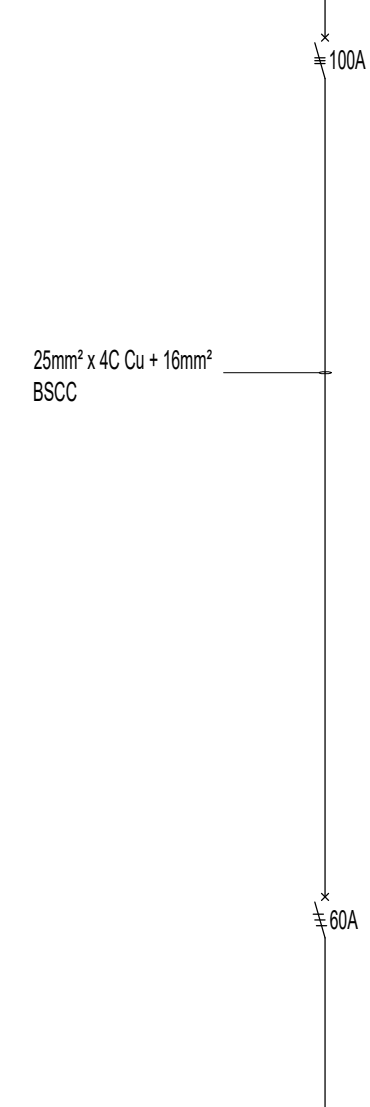


DISTRIBUTION BOARD DETAILS	
NAME	MAST 3 DB
TYPE	SURFACE IN MAST
LOCATION	INSIDE MAST
SWITCH GEAR	SCHNEIDER / CBI
RATED FAULT CURRENT	6kA
CABLE ENTRY	BOTTOM
COLOUR: EXT	SIGNAL RED
Colour: int	NORMAL-WHITE
FACEPLATE	REQUIRED WITH SQUARE KEY LATCHES
DOORS	YES
SPARE SPACE	30%

CIRCUIT NUMBER	
CIRCUIT DESCRIPTION	
WIRE SIZE	

DISTRIBUTION BOARD DETAILS	
NAME	MAST 4 DB
TYPE	SURFACE IN MAST
LOCATION	INSIDE MAST
SWITCH GEAR	SCHNEIDER / CBI
RATED FAULT CURRENT	6kA
CABLE ENTRY	BOTTOM
COLOUR: EXT	SIGNAL RED
Colour: int	NORMAL-WHITE
FACEPLATE	REQUIRED WITH SQUARE KEY LATCHES
DOORS	YES
SPARE SPACE	30%

CIRCUIT NUMBER	
CIRCUIT DESCRIPTION	
WIRE SIZE	



NOTE/NOTA :

NO DIMENSIONS ARE TO BE SCALED OFF ANY DRAWINGS. ALL DIMENSIONS ARE TO BE RATIFIED ON SITE PRIOR TO ANY CONSTRUCTION.

GEEN AFMETINGS MAG VAN TEKENINGE GESKAAL WORD NIE. ALLE AFMETINGS MOET OP TERREIN NAGEGAAN WORD VOOR KONSTRUKSIE.

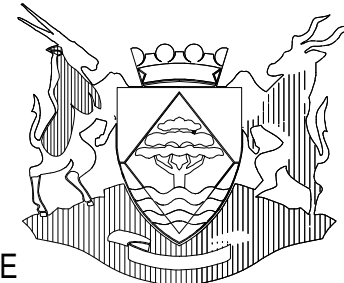
A BEFORE CONTRACT COMMENCES. VOOR KONTRAK IN AANVANG NIEEM.
A1 AFTER CONTRACT HAS COMMENCED. NA KONTRAK IN AANVANG GENEEM HET.

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NO.	DATE	AMENDMENTS

NORTHERN CAPE PROVINCE
DEPARTMENT OF TRANSPORT,
ROADS AND PUBLIC WORKS
EN PROVINSIE NOORD-KAAP
DEPARTEMENT VAN VEVOER,PAIE
OPENBARE WERKE



PHONDO LOMNTLA KAPA
ISEBE IEZO THUTHO INDLILA
NE LEZEMISEBENZI
PROFENSI YA KAPA BOKONE
LEFAPHA LA DIPALANGWA
DITSELA LE DITIRO

PROJECT
KIMBERLEY NURSING COLLEGE
PHASE 2A- ACADEMIC CAMPUS



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DRAWING DESCRIPTION
BLOCK B- DB B2 E
SINGLE LINE DIAGRAM

DESIGN ONTWERP	H. Jonck	PROJECT PROJEK	6207-2
DRAWN GETEKEN	G. Bosman	DATE DATUM	July 2024

MVD Kalahari

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DRAWING No.

P2A-MVD-010-015-SLD 2



REV No.

FOR INFORMATION