















- [illegible]

E1	E11	E21	F1	F14	F25	F41
E2	E12	E22	F2	F15	F26	F45
E3	E13	E23	F3	F16	F27	F46
E4	E14	E24	F4	F17	F28	F47
E5	E15	E25	F5	F18	F29	F49
E6	E16	E26	F6	F19	F30	F50
E7	E17	E27	F7	F20	F37	FN
E8	E18	F8	F11	F21	F38	PV27
E9	F9	F12	F22	F22	F39	PV28
E10	E20	F10	F13	F23	F40	SIREN

SIZES OF SIGNS (PHOTOGRAPHS) IN INSIDE TO BE: 120 X 100mm, FIRE SIGNAGE TO BE PHOTOLUMINESCENT IN OFFICES, FIRE SIGNAGE TO COMPLY WITH SASI 11801 A.5, SIGNS TO BE ENGRAVED BY A QUALIFIED BUSINESS WITH A METAL FINISHER, SAND COATING 11801 A.5, SIGN TO BE



	30m Fire hose reel
	Fire hydrant
	2-hour fire stopping to be applied in ceiling void
	4.5 Secop Fire extinguisher
	6. Wet Chemical Fire extinguisher
	Pipe riser from below ground
	Fire Blanket
	New escape route or mitigate risk of dead-end corridors to be fitted in 17 in SANS 10400-1:2000.
	Door to be fitted with self closing device.
	New Class B fire rated door for escape route protection to be fitted in 17 in SANS 10400-1:2000.
	Doorframe to be fitted intumescent strip smoke-seal.
	2hr Fire Rated Glass (Pyram-S or Equal Approved) on Fire Rated Glass
	Escape route directional arrow
	Proposed new 120minute fire separation

- Council Water Supply
- Fire Water Supply
- Domestic Water Supply

Schedule of Fire Equipment:		
Equipment Description	Quantity	Location
4.5kg Dry Powder Fire Extinguisher	23	As shown on Layout D925-MF-A0-01
3M Wet Chemical Fire Extinguisher	1	Cell Kitchen
Fire Blanket	1	Cell Kitchen
30M Fire hose reel	11	As shown on Layout D925-MF-A0-01
Tamperproof type fire hydrant	10	As shown on Layout D925-MF-A0-01 and D925-MF-A0-02
Storage type fire hydrant	1	Site Entrance
Two-wire type fire booster connection	1	Site Entrance
Inert gas type fire suppression system c/w automatic fire detection fire tank	6 x 200bar cylinder manifold system	Battery / Inverter Storage Area
Electric fire alarm manual fire tank	1	Landscape Area (Back of site)
Electric fire alarm manual fire tank	1	Landscape Area (Back of site)


PRELIMINARY	
FOR INFORMATION ONLY	✓
FOR APPROVAL	
FOR TENDER PURPOSES	
FOR CONSTRUCTION	

1. FOR GENERAL NOTES REFER TO DRAWING
2. DRAWINGS ARE NOT TO BE SCALED. ALL LEVELS AND DIMENSIONS TO BE VERIFIED ON SITE PRIOR TO COMMENCEMENT OF WORKS. ANY DISCREPANCIES TO BE BROUGHT TO THE ENGINEERS' ATTENTION IMMEDIATELY.
3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS, SCHEDULES AND SPECIFICATIONS RELATED TO THIS PROJECT.
4. ALL BUILDING WORK AND MATERIALS ARE TO COMPLY WITH LOCAL AUTHORITY'S REQUIREMENTS AND ARE TO BE IN ACCORDANCE WITH SANS 10400 NATIONAL BUILDING REGULATIONS AS WELL AS THE RELEVANT MUNICIPAL BY-LAW.

OCCUPANCY CLASSIFICATION:
G1 - OFFICES
E1 - PLACE OF DETENTION
J2 - MODERATE RISK STORAGE

NO	DATE	DESCRIPTION	DRAWN
0	2023/10/27	ISSUED FOR INFORMATION	QA
1	2023/12/14	ISSUED FOR INFORMATION	QA

ARCHITECT DETAILS:
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Dihlase Consulting Engineers
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Email: dbn@dihlase.co.za



PROJECT NAME: PROPOSED NEW POLICE STATION FOR SOUTH AFRICAN POLICE SERVICES (SAPS) - PORTION 4 OF ERF 6934 IKAGENG EXT.4

SHEET TITLE:

**GROUND FLOOR
FIRE PROTECTION LAYOUT**

DATE: 2023/12/14	REF NO: 3925
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PAPER SIZE: A1	DESIGNED BY: O ADAM
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SCALE:	DRAWN BY: O ADAM
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1:50	CHECKED BY: W. J. ROUX
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DRAWING NUMBER:		REV
D3925-MF-A0-01		REV



- SITE LAYOUT SCALE: 1:500**
- GENERAL FIRE PROTECTION NOTES:**
- ALL WORK TO COMPLY WITH SANS 10400-2:2020 Edition 4
 - OCCUPANCY CLASSIFICATION: A1
 - MAXIMUM NUMBER OF OCCUPANTS: 2791 PERSONS
 - REFERENCE MUST BE MADE TO ARCHITECTURAL PLANS FOR SECTIONS AND ELEVATIONS.
 - FIRE STANDS TO BE READ IN CONJUNCTION WITH THE DESIGN REPORT.
 - ALL SAFETY DISTANCES COMPLY WITH SANS 10400-2:2020 FIRE PROTECTION TABLE 3
 - FIRE EXTINGUISHERS TO BE INSTALLED IN ACCORDANCE WITH SANS 10400-2:2020 AND SANS 1015 AS PER PLAN (RATE OF 1 x 4.5kg DCP PER 200m²)
 - FIRE EXTINGUISHERS TO BE HUNG ON PURPOSE MADE BOARDS, AS INDICATED ON PLAN OR RETAINED IN THE EXISTING FIRE EXTINGUISHER CABINETS ON-SITE.
 - FIRE HOSEREELS ON DRAGON SEAL AND TAMPERPROOF FIRE HYDRANTS TO BE INSTALLED AS PER SANS 10400-2:2020 AS PER PLAN.
 - ESCAPE DOORS MAY ONLY BE FITTED WITH LOCKING DEVICES APPROVED BY LOCAL AUTHORITY. DOORS TO BE UNLOCKED DURING WORK HOURS.
 - ALL FIRE DOORS TO COMPLY WITH SANS 1203 AND BE PROVIDED WITH SELF-CLOSING DEVICE AS WELL AS INTUMESCENT SMOKE SEAL STRIPS.
 - FIRE SEALING OF PENETRATIONS AND INTUMESCENT PAINTING OF SERVICES IN ACCORDANCE WITH FIRE ENGINEER'S SPECIFICATION AND TO BE COMPLETED BY APPROVED FIRE SEALING SPECIALIST CONTRACTOR. ALL PENETRATIONS FROM DIFFERING OCCUPANCIES TO BE FIRE SEALED ACCORDINGLY.
 - FLOOR COVERINGS TO COMPLY WITH SANS 10400.
 - WALL COVERINGS TO COMPLY WITH SANS 10400.
 - EMERGENCY LIGHTING TO BE SPECIFIED BY ELECTRICAL CONSULTANT AS PART OF THE BUILDING SHELL AND DOES NOT FORM A PART OF FIRE SERVICES SCOPE OF WORKS. EMERGENCY LIGHTING IF REQUIRED TO BE INSTALLED IN ACCORDANCE WITH SANS 10114 LIGHTING CODES BY AN ACCREDITED INSTALLER WITH A MINIMUM AVERAGE ILLUMINANCE OF 50 LUX ON A HORIZONTAL PLANE 100mm ABOVE THE FLOOR.
 - PHOTOLUMINESCENT STATUTORY EMERGENCY SIGNS TO BE PROVIDED AND TO COMPLY WITH SANS 1186 PART 1 AND 5.
 - SUPPLEMENTED CEILING AND ITS SUPPORTING MEMBERS SHALL BE OF NON-COMBUSTIBLE MATERIAL.
 - FIRE RATED SEPARATION WILL NEED TO BE PROVIDED FOR ANY SHARED WALLS OF DIFFERENT OCCUPANCIES.
 - FIRE WALLS TO BE CONSTRUCTED FULL HEIGHT FROM FLOOR TO INTERFERENCE OF 2.4m OR ROOF COVERING WITH ALL PENETRATIONS AND GAPS FIRE SEALED OR PROVIDED WITH APPROPRIATE FIRE DAMPER TO SANS 180.
 - ALL ABOVE AND BELOW GROUND PIPEWORK TO BE BLACK MILD STEEL. THURST BLOCKS TO BE INSTALLED ON ANY BENDS BELOW GROUND.
 - BELOW GROUND PIPEWORK TO BE WRAPPED IN DENSIO TAPE.
 - ANY FLAMMABLE LIQUIDS OR GASES TO BE STORED AND HANDLED IN ACCORDANCE WITH LOCAL AUTHORITY BY LAWS.
 - TO COMPENSATE FOR THE LACK OF WATER PRESSURE ON-SITE, A DEDICATED WATER STORAGE TANK AND DIESEL DRIVEN PUMP C/W ELECTRICAL JOCKEY PUMP WILL NEED TO BE INSTALLED. THE DEDICATED WATER SYSTEM WILL ENSURE MINIMUM MINIMUM CONSISTENT PRESSURE AT ALL FIRE EQUIPMENT FITTINGS IS MAINTAINED AND WILL BE SIZED FOR OPERATION OF 2 HYDRANTS AT 1200m PER HYDRANT FOR AN HOUR.
 - FIRE WATER SYSTEM TO HAVE A MINIMUM 30% REDUNDANCY IN THE EVENT OF PUMP FAILURE.
 - FOR THE INVERTER INSTALLATION BATTERY STORAGE AREA, THIS ZONE SHALL ADHERE TO THE COMPLIANCE REQUIREMENTS OUTLINED IN SUB-SECTION 10 OF THE FIRE DESIGN REPORT.
 - GENERATOR/TRANSFORMER AREAS ON-SITE TO ADHERE TO THE FIRE SAFETY REQUIREMENTS AND RECOMMENDATIONS PROVIDED IN SUB-SECTION 10 OF THE FIRE DESIGN REPORT.
 - IN THE EVENT THE CLIENT OPTS FOR SOLAR PANELS TO BE INSTALLED ON-SITE, THE INSTALLER AND DESIGN SHALL ADHERE TO THE COMPLIANCE REQUIREMENTS AND RECOMMENDATIONS OUTLINED IN SUB-SECTION 10 OF THE FIRE DESIGN REPORT.
 - FIRE SUPPRESSION FOR SERVER ROOM IS NOT REQUIRED AS PART OF SANS 10400-2:2020 CONFORMANCE. SHOULD THE CLIENT REQUIRE A FIRE SUPPRESSION SYSTEM TO BE INSTALLED, THIS WILL NOT FORM PART OF THE FIRE ENGINEER SCOPE AND SHALL BE DONE BY A SPECIALIST.
 - MANUAL FIRE DETECTION SYSTEMS TO BE INSTALLED IN ACCORDANCE WITH SANS 1019-2020 REGULATION.
 - REMANO SYSTEM TO BE INSTALLED AND LINKED TO CLOSEST FIRE DEPARTMENT.
 - FIRE DETECTION SYSTEM TO BE AS PER FIRE DETECTION LAYOUT. INMAN SYSTEM TO AUTO-SHUT OFF IN THE EVENT OF A FIRE.

Fire Protection Legend:

- 30m Fire hose reel
- Fire hydrant
- 2-hour fire stopping to be applied in ceiling void
- 4.5kg DCP Fire extinguisher
- 6L Wet Chemical Fire extinguisher
- Fire Blanket
- New escape door to mitigate risk of dead-end corridors as per clause 4.10.1 in SANS 10400-2:2020. Door to be fitted with self-closing device.
- 2hr Fire Rated Glass (Pyrom-D or Equal Approved) c/w Fire Rated Frame
- Escape route directional arrow
- Proposed new 120minute fire separation

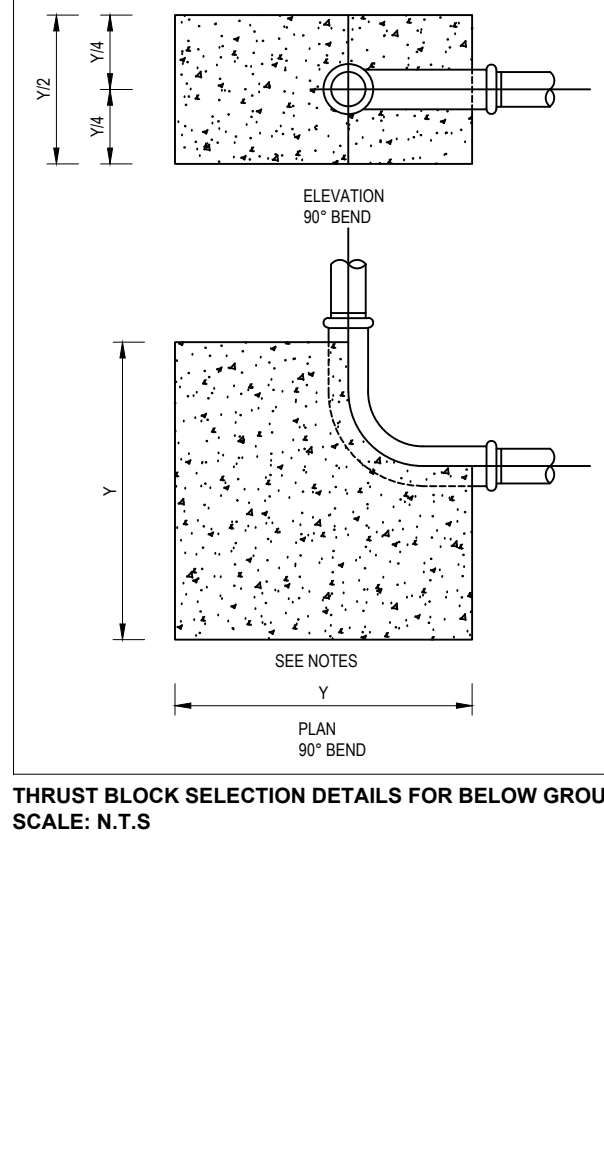
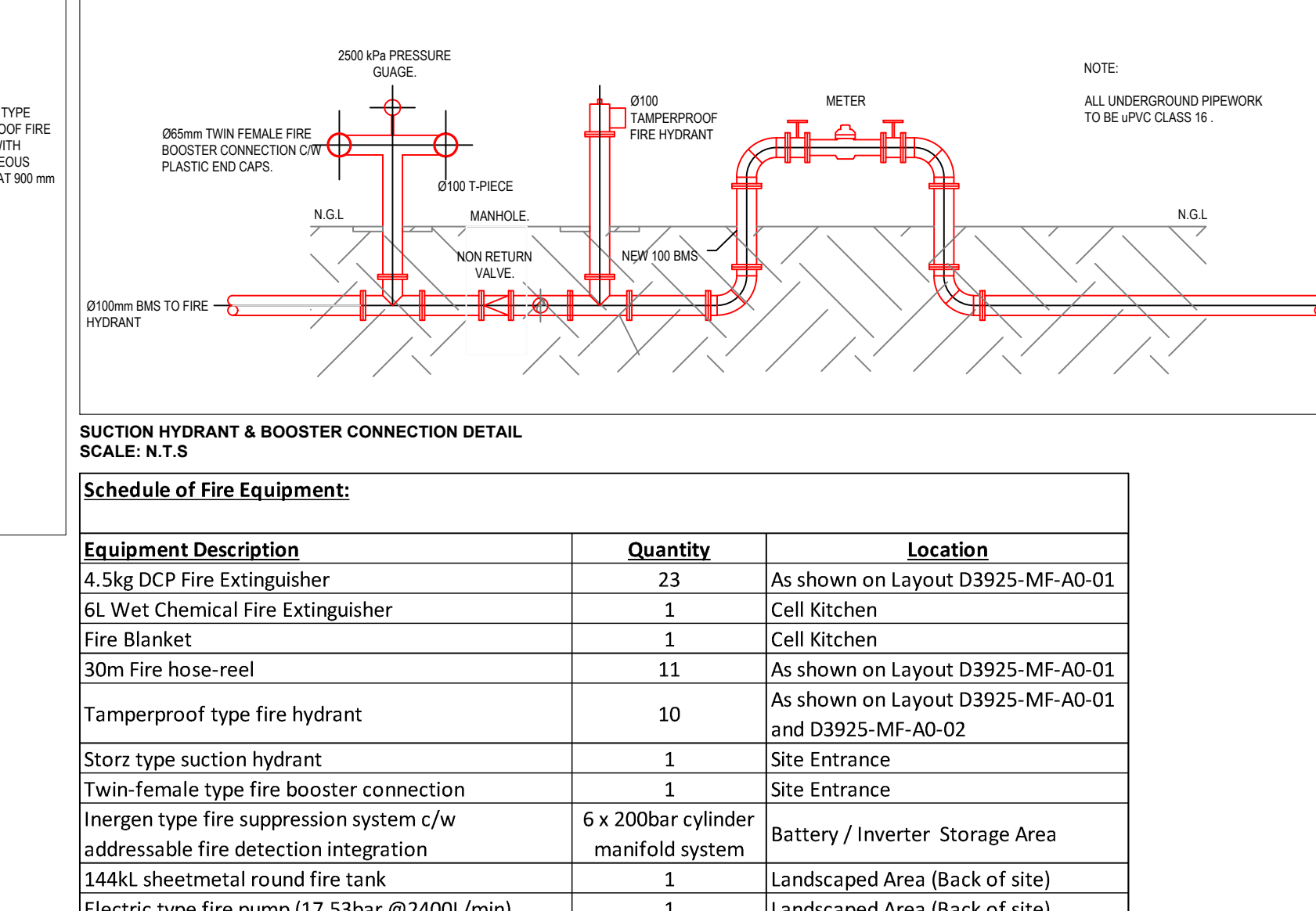
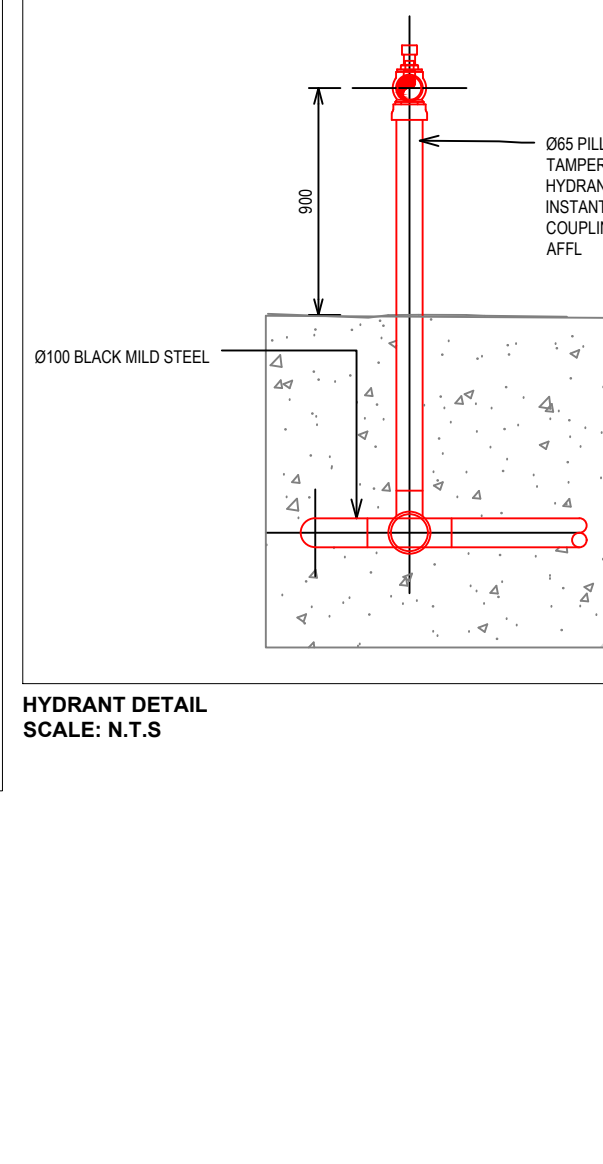
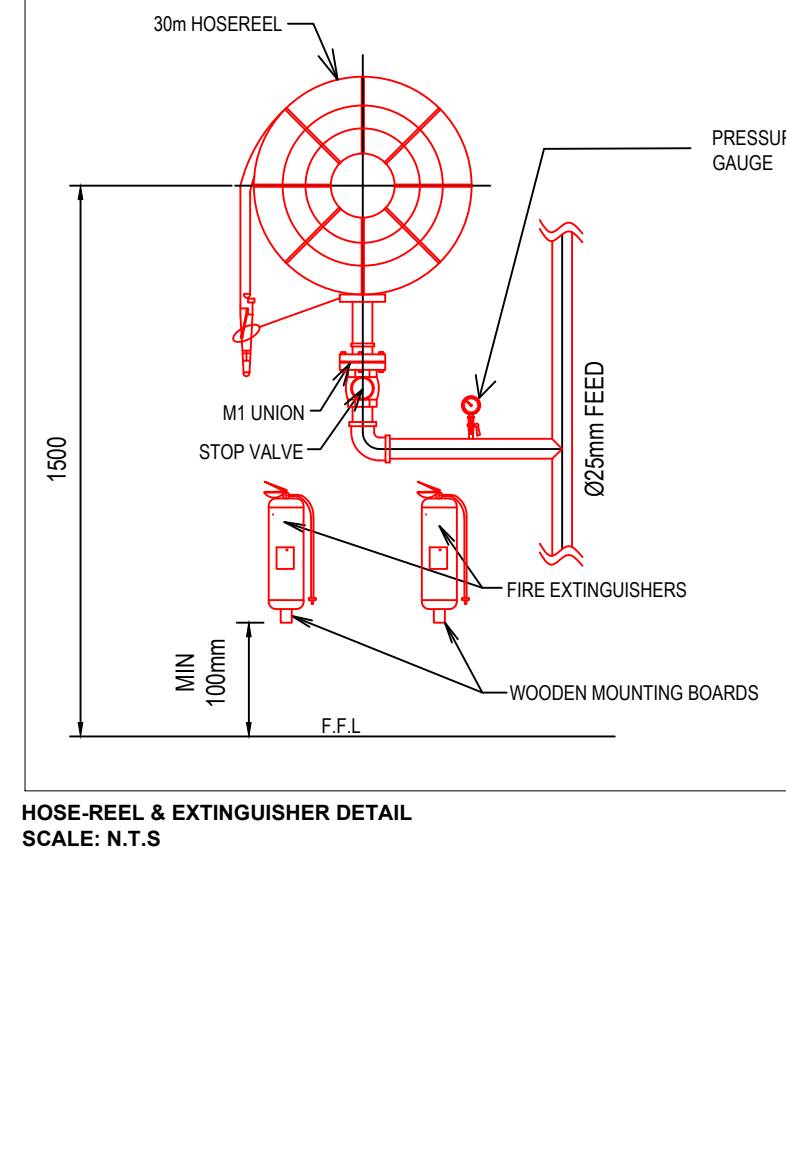
Piping Legend:

- Council Water Supply
- Fire Water Supply
- Domestic Water Supply

Fire Signage Legend:

E1	E11	E21	F1	F14	F25	F41
E2	E12	E22	F2	F15	F26	F45
E3	E13	E23	F3	F16	F27	F46
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E6	E16	E26	F6	F19	F30	F48
E7	E17	E27	F7	F20	F31	F49
E8	E18	F8	F11	F21	F38	PV27
E9	E19	F9	F12	F22	F39	FB14
E10	E20	F10	F13	F23	F40	SIREN

NOTES: 1. ALL SIGNS AND GRAPHICS TO BE INSTALLED IN ACCORDANCE WITH SANS 1019-2020. 2. ALL SIGNS TO BE INSTALLED IN ACCORDANCE WITH SANS 1019-2020. 3. ALL SIGNS TO BE INSTALLED IN ACCORDANCE WITH SANS 1019-2020. 4. ALL SIGNS TO BE INSTALLED IN ACCORDANCE WITH SANS 1019-2020.



MINIMUM VALUE OF Y (METERS)

OPERATIVE PRESSURE (N/m²)	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4	6.0	6.6	7.2	7.8	8.4	9.0	9.6	10.2	10.8	11.4	12.0	12.6	13.2	13.8	14.4	15.0	15.6	16.2	16.8	17.4	18.0	18.6	19.2	19.8	20.4	21.0	21.6	22.2	22.8	23.4	24.0	24.6	25.2	25.8	26.4	27.0	27.6	28.2	28.8	29.4	30.0	30.6	31.2	31.8	32.4	33.0	33.6	34.2	34.8	35.4	36.0	36.6	37.2	37.8	38.4	39.0	39.6	40.2	40.8	41.4	42.0	42.6	43.2	43.8	44.4	45.0	45.6	46.2	46.8	47.4	48.0	48.6	49.2	49.8	50.4	51.0	51.6	52.2	52.8	53.4	54.0	54.6	55.2	55.8	56.4	57.0	57.6	58.2	58.8	59.4	60.0	60.6	61.2	61.8	62.4	63.0	63.6	64.2	64.8	65.4	66.0	66.6	67.2	67.8	68.4	69.0	69.6	70.2	70.8	71.4	72.0	72.6	73.2	73.8	74.4	75.0	75.6	76.2	76.8	77.4	78.0	78.6	79.2	79.8	80.4	81.0	81.6	82.2	82.8	83.4	84.0	84.6	85.2	85.8	86.4	87.0	87.6	88.2	88.8	89.4	90.0	90.6	91.2	91.8	92.4	93.0	93.6	94.2	94.8	95.4	96.0	96.6	97.2	97.8	98.4	99.0	99.6	100.2	100.8	101.4	102.0	102.6	103.2	103.8	104.4	105.0	105.6	106.2	106.8	107.4	108.0	108.6	109.2	109.8	110.4	111.0	111.6	112.2	112.8	113.4	114.0	114.6	115.2	115.8	116.4	117.0	117.6	118.2	118.8	119.4	120.0	120.6	121.2	121.8	122.4	123.0	123.6	124.2	124.8	125.4	126.0	126.6	127.2	127.8	128.4	129.0	129.6	130.2	130.8	131.4	132.0	132.6	133.2	133.8	134.4	135.0	135.6	136.2	136.8	137.4	138.0	138.6	139.2	139.8	140.4	141.0	141.6	142.2	142.8	143.4	144.0	144.6	145.2	145.8	146.4	147.0	147.6	148.2	148.8	149.4	150.0	150.6	151.2	151.8	152.4	153.0	153.6	154.2	154.8	155.4	156.0	156.6	157.2	157.8	158.4	159.0	159.6	160.2	160.8	161.4	162.0	162.6	163.2	163.8	164.4	165.0	165.6	166.2	166.8	167.4	168.0	168.6	169.2	169.8	170.4	171.0	171.6	172.2	172.8	173.4	174.0	174.6	175.2	175.8	176.4	177.0	177.6	178.2	178.8	179.4	180.0	180.6	181.2	181.8	182.4	183.0	183.6	184.2	184.8	185.4	186.0	186.6	187.2	187.8	188.4	189.0	189.6	190.2	190.8	191.4	192.0	192.6	193.2	193.8	194.4	195.0	195.6	196.2	196.8	197.4	198.0	198.6	199.2	199.8	200.4	201.0	201.6	202.2	202.8	203.4	204.0	204.6	205.2	205.8	206.4	207.0	207.6	208.2	208.8	209.4	210.0	210.6	211.2	211.8	212.4	213.0	213.6	214.2	214.8	215.4	216.0	216.6	217.2	217.8	218.4	219.0	219.6	220.2	220.8	221.4	222.0	222.6	223.2	223.8	224.4	225.0	225.6	226.2	226.8	227.4	228.0	228.6	229.2	229.8	230.4	231.0	231.6	232.2	232.8	233.4	234.0	234.6	235.2	235.8	236.4	237.0	237.6	238.2	238.8	239.4	240.0	240.6	241.2	241.8	242.4	243.0	243.6	244.2	244.8	245.4	246.0	246.6	247.2	247.8	248.4	249.0	249.6	250.2	250.8	251.4	252.0	252.6	253.2	253.8	254.4	255.0	255.6	256.2	256.8	257.4	258.0	258.6	259.2	259.8	260.4	261.0	261.6	262.2	262.8	263.4	264.0	264.6	265.2	265.8	266.4	267.0	267.6	268.2	268.8	269.4	270.0	270.6	271.2	271.8	272.4	273.0	273.6	274.2	274.8	275.4	276.0	276.6	277.2	277.8	278.4	279.0	279.6	280.2	280.8	281.4	282.0	282.6	283.2	283.8	284.4	285.0	285.6	286.2	286.8	287.4	288.0	288.6	289.2	289.8	290.4	291.0	291.6	292.2	292.8	293.4	294.0	294.6	295.2	295.8	296.4	297.0	297.6	298.2	298.8	299.4	300.0	300.6	301.2	301.8	302.4	303.0	303.6	304.2	304.8	305.4	306.0	306.6	307.2	307.8	308.4	309.0	309.6	310.2	310.8	311.4	312.0	312.6	313.2	313.8	314.4	315.0	315.6	316.2	316.8	317.4	318.0	318.6	319.2	319.8	320.4	321.0	321.6	322.2	322.8	323.4	324.0	324.6	325.2	325.8	326.4	327.0	327.6	328.2	328.8	329.4	330.0	330.6	331.2	331.8	332.4	333.0	333.6	334.2	334.8	335.4	336.0	336.6	337.2	337.8	338.4	339.0	339.6	340.2	340.8	341.4	342.0	342.6	343.2	343.8	344.4	345.0	345.6	346.2	346.8	347.4	348.0	348.6	349.2	349.8	350.4	351.0	351.6	352.2	352.8	353.4	354.0	354.6	355.2	355.8	356.4	357.0	357.6	358.2	358.8	359.4	360.0	360.6	361.2	361.8	362.4	363.0	363.6	364.2	364.8	365.4	366.0	366.6	367.2	367.8	368.4	369.0	369.6	370.2	370.8	371.4	372.0	372.6	373.2	373.8	374.4	375.0	375.6	376.2	376.8	377.4	378.0	378.6	379.2	379.8	380.4	381.0	381.6	382.2	382.8	383.4	384.0	384.6	385.2	385.8	386.4	387.0	387.6	388.2	388.8	389.4	390.0	390.6	391.2	391.8	392.4	393.0	393.6	394.2	394.8	395.4	396.0	396.6	397.2	397.8	398.4	399.0	399.6	400.2	400.8	401.4	402.0	402.6	403.2	403.8	404.4	405.0	405.6	406.2	406.8	407.4	408.0	408.6	409.2	409.8	410.4	411.0	411.6	412.2	412.8	413.4	414.0	414.6	415.2	415.8	416.4	417.0	417.6	418.2	418.8	419.4	420.0	420.6	421.2	421.8	422.4	423.0	423.6	424.2	424.8	425.4	426.0	426.6	427.2	427.8	428.4	429.0	429.6	430.2	430.8	431.4	432.0	432.6	433.2	433.8	434.4	435.0	435.6	436.2	436.8	437.4	438.0	438.6	439.2	439.8	440.4	441.0	441.6	442.2	442.8	443.4	444.0	444.6	445.2	445.8	446.4	447.0	447.6	448.2	448.8	449.4	450.0	450.6	451.2	451.8	452.4	453.0	453.6	454.2	454.8	455.4	456.0	456.6	457.2	457.8	458.4	459.0	459.6	460.2	460.8	461.4	462.0	462.6	463.2	463.8	464.4	465.0	465.6	466.2	466.8	467.4	468.0	468.6	469.2	469.8	470.4	471.0	471.6	472.2	472.8	473.4	474.0	474.6	475.2	475.8	476.4	477.0	477.6	478.2	478.8	479.4	480.0	480.6	481.2	481.8	482.4	483.0	483.6	484.2	484.8	485.4	486.0	486.6	487.2	487.8	488.4	489.0	489.6	490.2	490.8	491.4	492.0	492.6	493.2	493.8	494.4	495.0	495.6	496.2	496.8	497.4	498.0	498.6	499.2	499.8	500.4	501.0	501.6	502.2	502.8	503.4	504.0	504.6	505.2	505.8	506.4	507.0	507.6	508.2	508.8	509.4	510.0	510.6	511.2	511.8	512.4	513.0	513.6	514.2	514.8	515.4	516.0	516.6	517.2	517.8	518.4	519.0	519.6	520.2	520.8	521.4	522.0	522.6	523.2	523.8	524.4	525.0	525.6	526.2	526.8	527.4	528.0	528.6	529.2	529.8	530.4	531.0	531.6	532.2	532.8	533.4	534.0	534.6	535.2	535.8	536.4	537.0	537.6	538.2	538.8	539.4	540.0	540.6	541.2	541.8	542.4	543.0	543.6	544.2	544.8	545.4	546.0	546.6	547.2	547.8	548.4	549.0	549.6	550.2	550.8	551.4	552.0	552.6	553.2	553.8	554.4	555.0	555.6	556.2	556.8	557.4	558.0	558.6	559.2	559.8	560.4	561.0	561.6	562.2	562.8	563.4	564.0	
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NOTES:

- CONCRETE CLASS 20/19
- WALL OF THE DEPTH OF 0.60 METER SHALL BE BELOW THE FREE SURFACE
- FOOTING AND CONNECTIONS TO NOT YET CLEAR OF CONCRETE
- BLOCK-OUT AGAINST UNDESIRABLE EXPOSURE

P/PWFORM

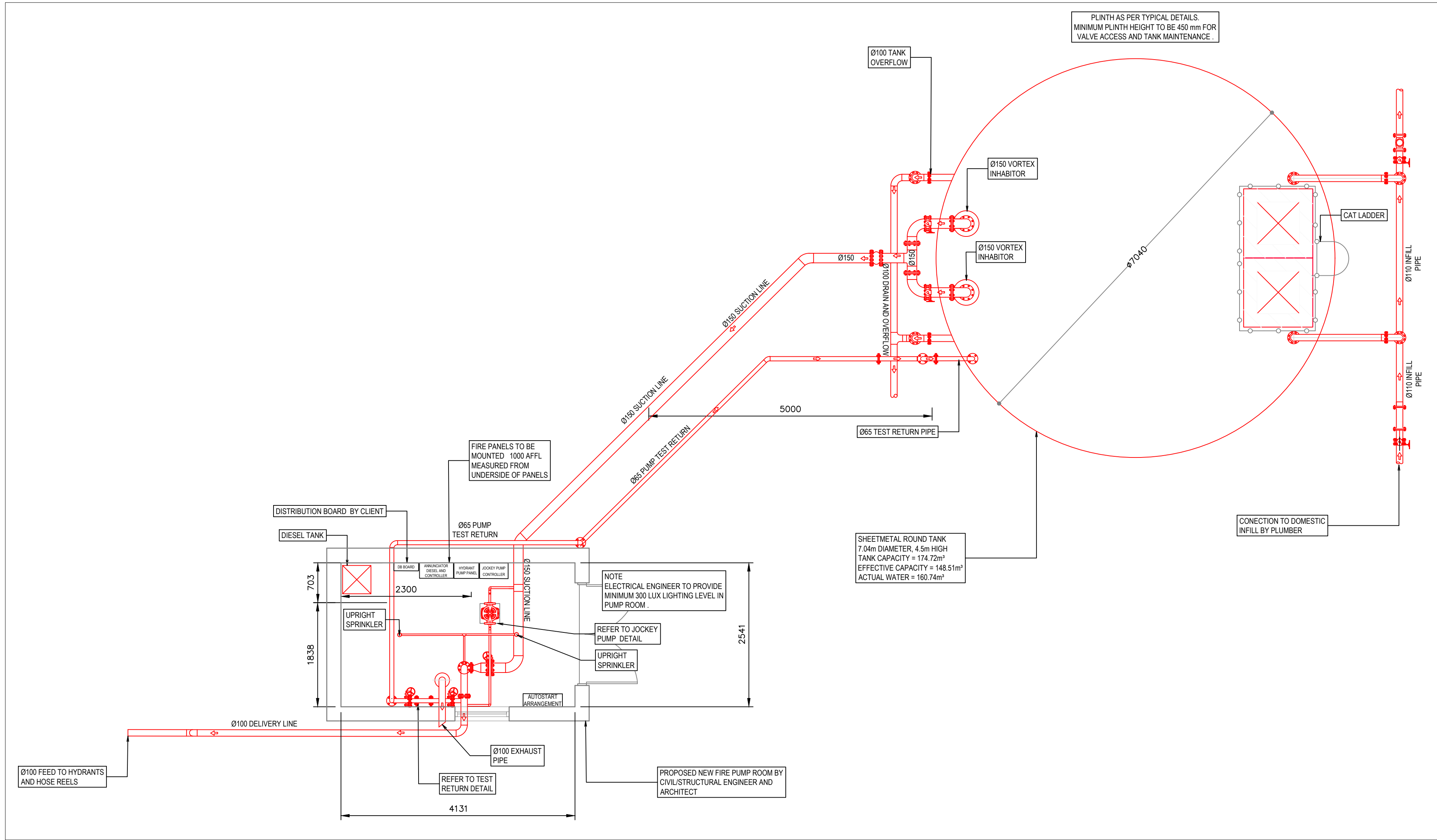
PRELIMINARY

FOR INFORMATION ONLY

FOR APPROVAL

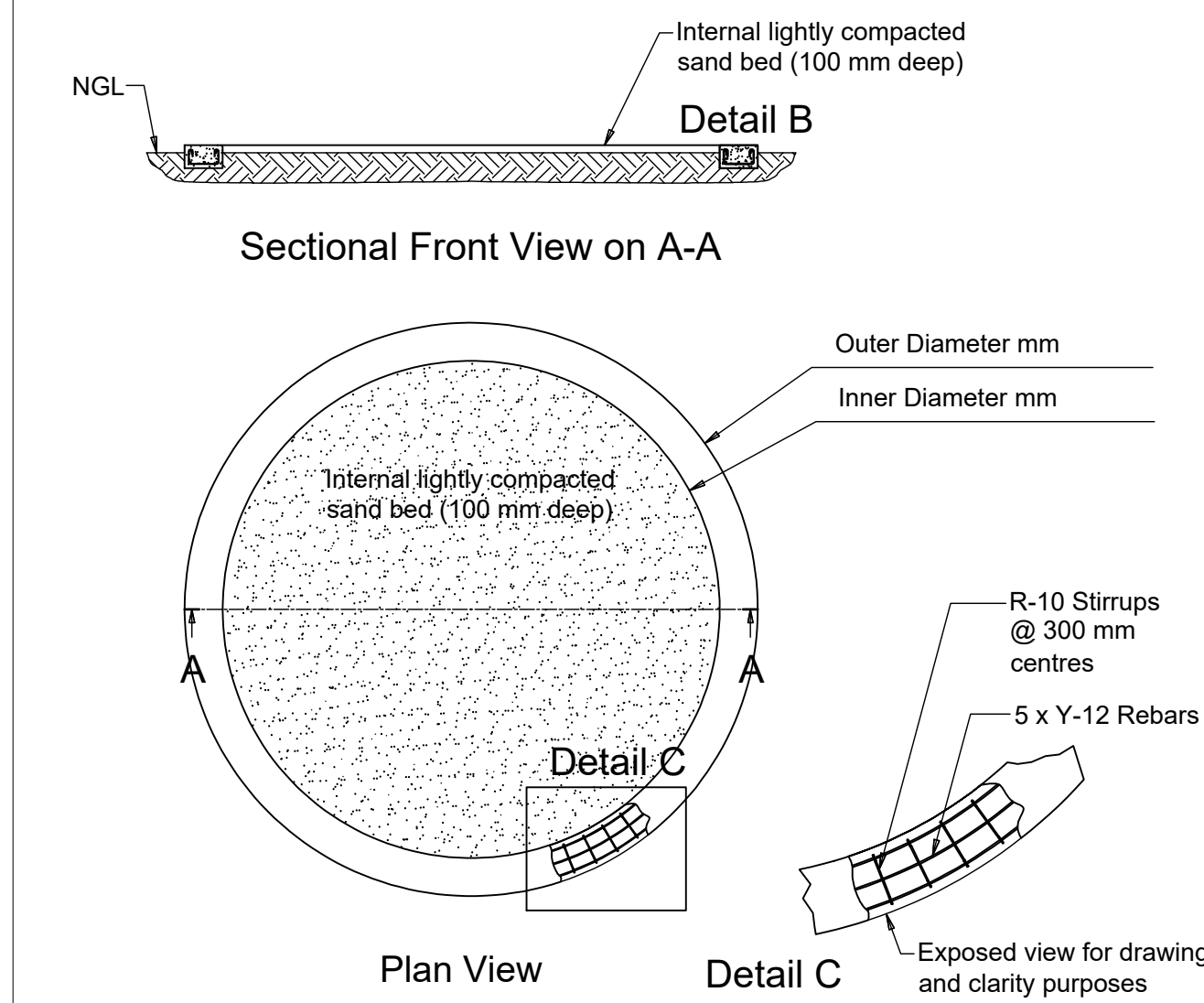
FOR TENDER PURPOSES

FOR CONSTRUCTION

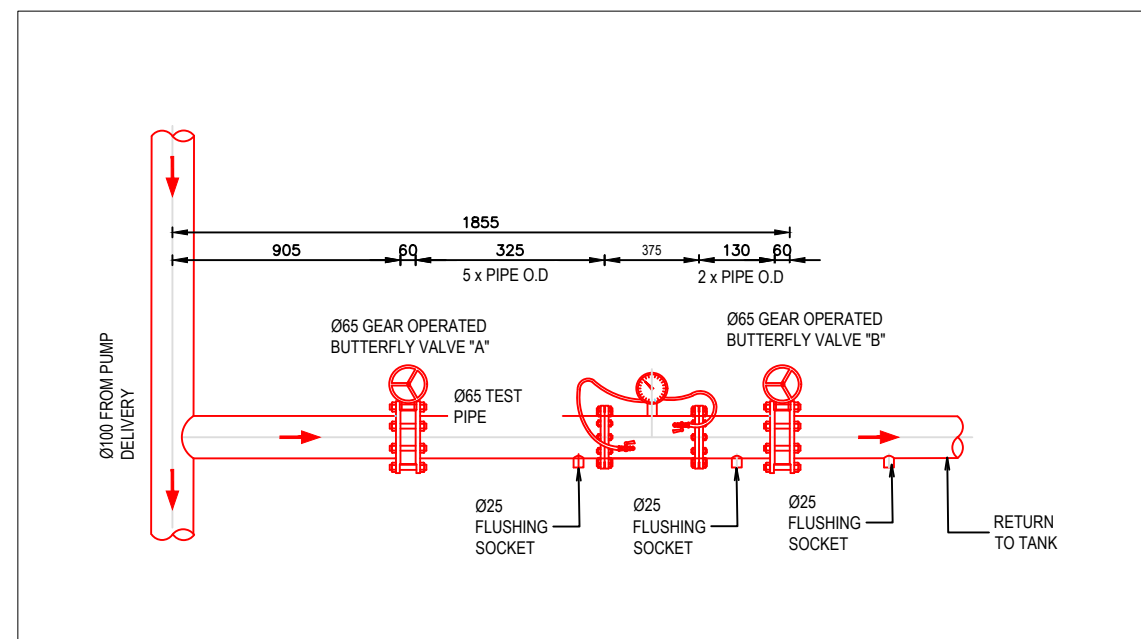
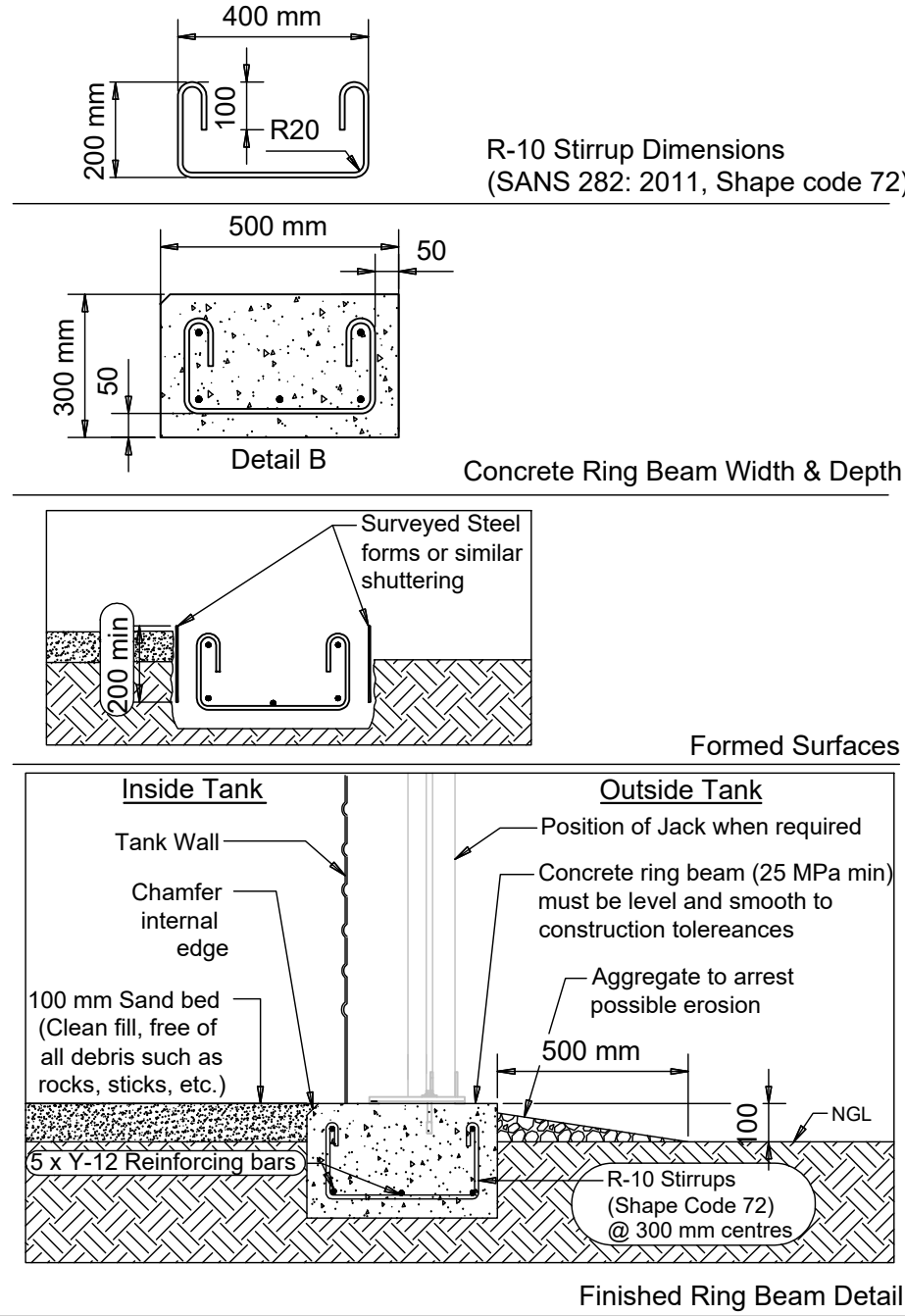


FIRE PUMP ROOM AND DEDICATED FIRE STORAGE DETAIL: FLOOR PLAN (AERIAL VIEW)
SCALE: 1:50

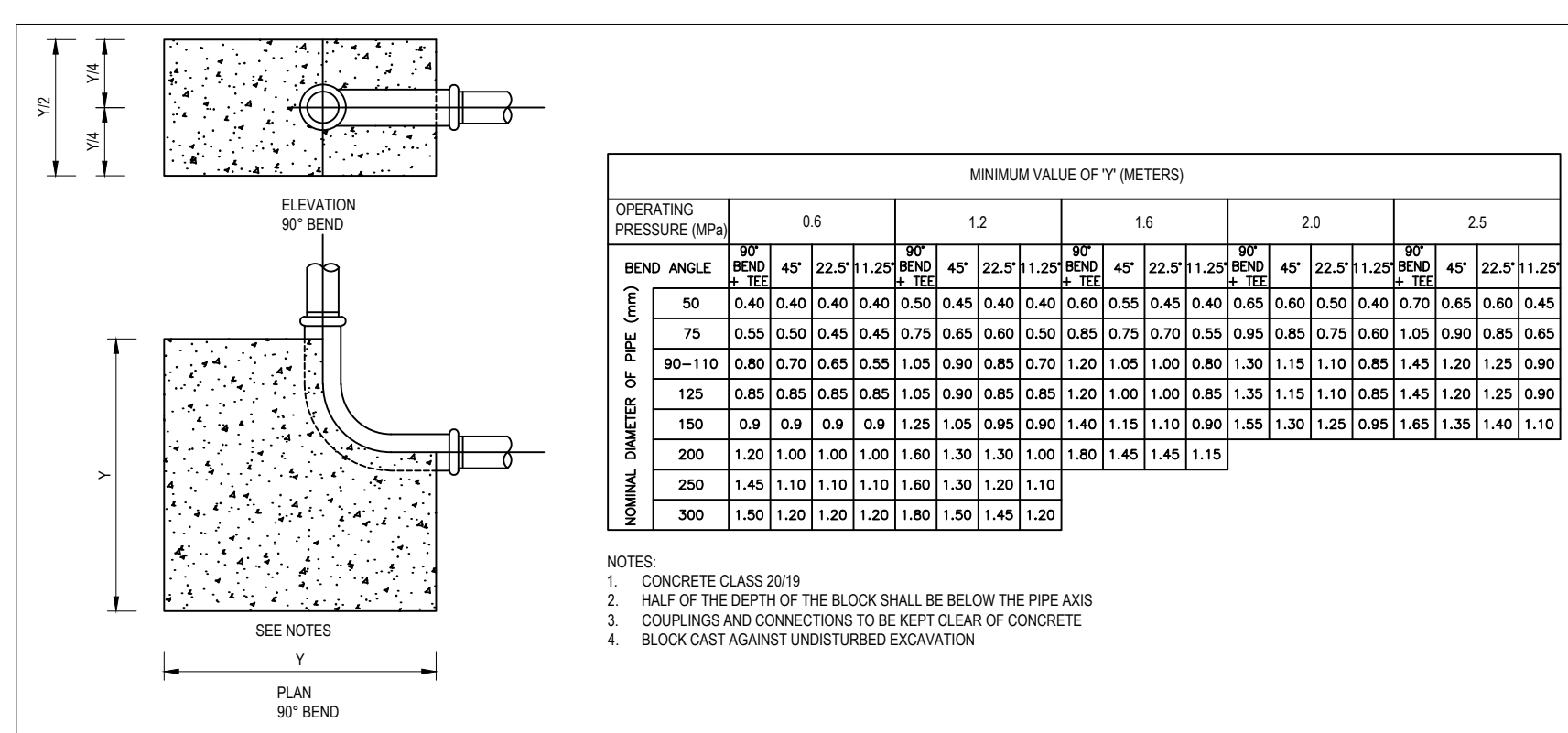
ST10 Concrete Ring Beam - Not to Scale



FIRE TANK PLINTH DETAIL
SCALE: N.T.S



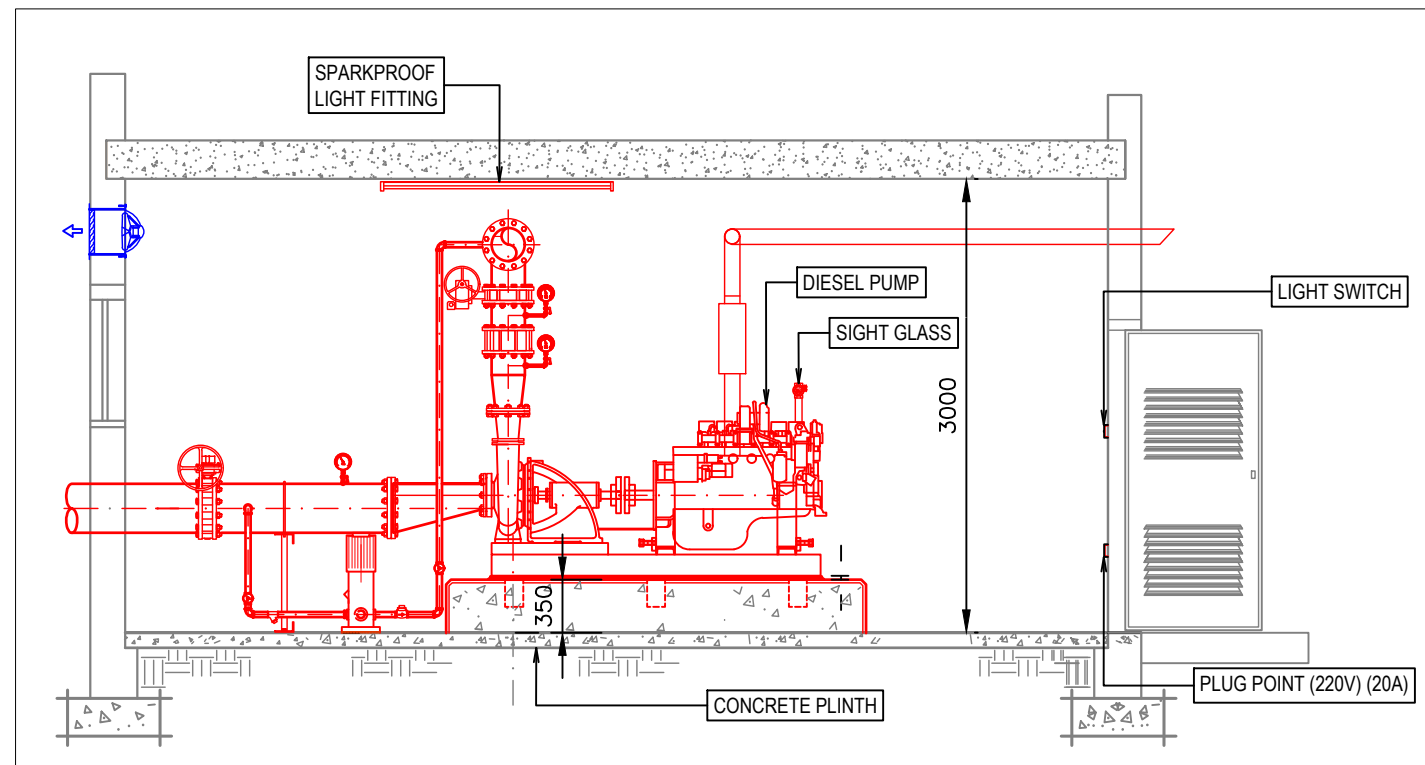
TEST RETURN PIPE DETAIL
SCALE: 1:30



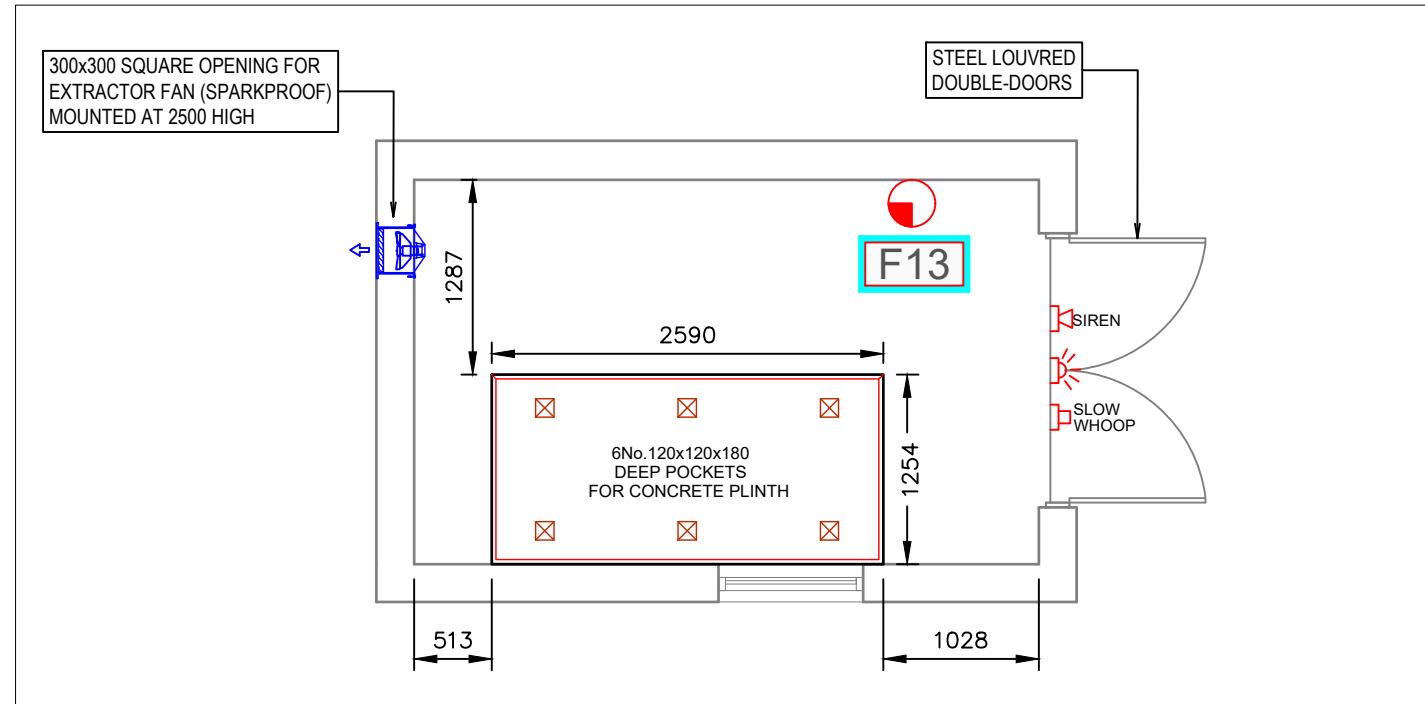
THRUST BLOCK SELECTION DETAILS FOR BELOW GROUND PIPEWORK
SCALE: N.T.S

GENERAL FIRE PROTECTION NOTES:

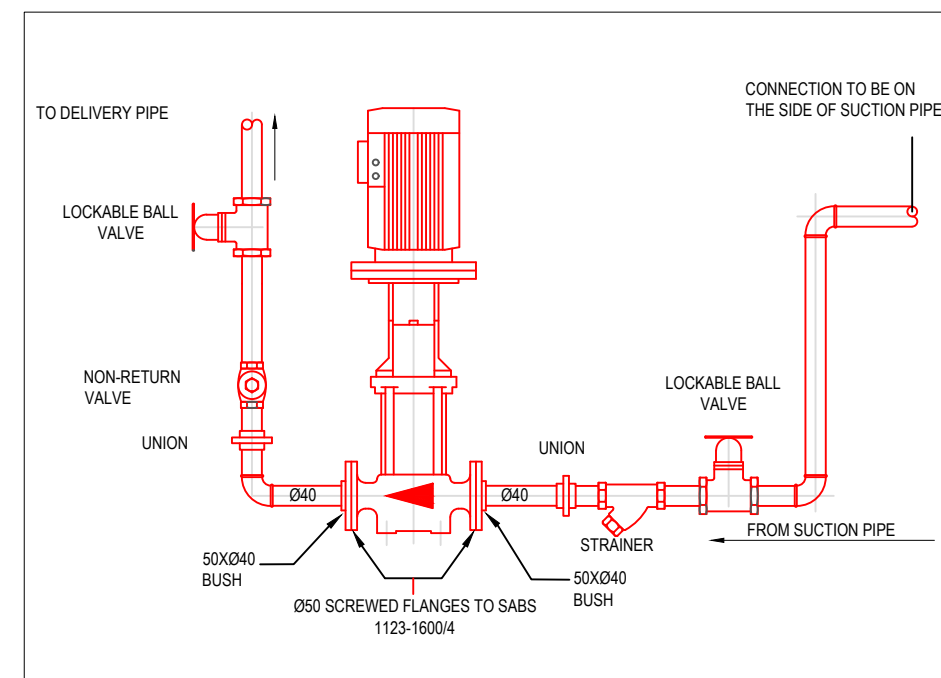
- ALL WORK TO COMPLY WITH SANS 10400-T:2020 EDITION 4
- OCCUPANCY CLASSIFICATION: A1
- MAXIMUM NUMBER OF OCCUPANTS = 2791 PERSONS
- REFERENCE MUST BE MADE TO ARCHITECTURAL PLANS FOR SECTIONS AND ELEVATIONS.
- FIRE PLANS TO BE READ IN CONJUNCTION WITH FIRE DESIGN REPORT.
- ALL SAFETY DISTANCES COMPLY WITH SANS 10400-T: 2020 FIRE PROTECTION TABLE 2.
- FIRE EXTINGUISHERS TO BE INSTALLED IN ACCORDANCE WITH SANS 10400-T:2020 AND SANS 10105 AS PER PLAN (RATE OF 1 x 4.5KG DCP PER 200m²).
- CABINETS ON-SITE.
- FIRE HOSE REELS C/W DRAGON SEAL AND TAMPERPROOF FIRE HYDRANTS TO BE INSTALLED AS PER SANS 10400-T:2020 AS PER PLAN.
- ESCAPE DOORS MAY ONLY BE FITTED WITH LOCKING DEVICES APPROVED BY LOCAL AUTHORITY. DOORS TO BE UNLOCKED DURING WORK HOURS.
- ALL FIRE DOORS TO COMPLY WITH SANS 1253 AND BE PROVIDED WITH SELF-CLOSING DEVICE AS WELL AS INTUMESCENT SMOKE-SEAL STRIPS.
- FIRE SEALING OF PENETRATIONS AND INTUMESCENT PAINTING OF SERVICES IN ACCORDANCE WITH FIRE ENGINEER'S SPECIFICATION AND TO BE COMPLETED BY APPROVED FIRE SEALING SPECIALIST CONTRACTOR. ALL PENETRATIONS FROM DIFFERING OCCUPANCIES TO BE FIRE SEALED ACCORDINGLY.
- FLOOR COVERINGS TO COMPLY WITH SANS 10400.
- WALL COVERINGS TO COMPLY WITH SANS 10400.
- EMERGENCY LIGHTING TO BE SPECIFIED BY ELECTRICAL CONSULTANT AS PART OF THE BUILDING SHELL AND DOES NOT FORM A PART OF FIRE SERVICES SCOPE OF WORKS. EMERGENCY LIGHTING (IF REQUIRED) TO BE INSTALLED IN ACCORDANCE WITH SANS 10114-2 LIGHTING CODES BY AN ACCREDITED INSTALLER WITH A MINIMUM AVERAGE ILLUMINANCE OF 50 LUX ON A HORIZONTAL PLANE 100mm ABOVE THE FLOOR.
- PHOTOLUMINESCENT STATUTORY EMERGENCY SIGNS TO BE PROVIDED AND TO COMPLY WITH SANS 1186 - PART 1 AND 5.
- SUSPENDED CEILINGS AND ITS SUPPORTING MEMBERS, SHALL BE OF NON-COMBUSTIBLE MATERIAL.
- FIRE RATED SEPARATION WILL NEED TO BE PROVIDED FOR ANY SHARED WALLS OF DIFFERENT OCCUPANCIES.
- FIRE WALLS TO BE CONSTRUCTED FULL HEIGHT FROM FLOOR TO UNDERSIDE OF SLAB OR ROOF COVERING WITH ALL PENETRATIONS AND GAPS FIRE SEALED OR PROVIDED WITH APPROPRIATE FIRE DAMPER TO SANS 193.
- ALL ABOVE AND BELOW GROUND PIPEWORK TO BE BLACK MILD STEEL. THRUST BLOCKS TO BE INSTALLED ON ANY BENDS BELOW GROUND.
- BELOW GROUND PIPEWORK TO BE WRAPPED IN DENSO TAPE.
- ANY FLAMMABLE LIQUIDS OR GASES TO BE STORED AND HANDLED IN ACCORDANCE LOCAL AUTHORITY BY-LAWS.
- TO COMPENSATE FOR THE LACK OF WATER PRESSURE ON-SITE, A DEDICATED WATER STORAGE TANK AND DIESEL DRIVEN PUMP C/W ELECTRICAL JOCKEY PUMP WILL NEED TO BE INSTALLED. THE PUMP/TANK SYSTEM WILL ENSURE 300kPa MINIMUM COMPLAINT PRESSURE AT ALL FIRE EQUIPMENT FITTINGS IS MAINTAINED AND WILL BE SIZED FOR OPERATION OF 2 HYDRANTS AT 1200l/m PER HYDRANT FOR AN HOUR.
- FIRE WATER SYSTEM TO HAVE A MUNICIPAL BYPASS TO OFFER REDUNDANCY IN THE EVENT OF PUMP FAILURE.
- FOR THE INVERTER INSTALLATION BATTERY STORAGE AREA, THIS ZONE SHALL ADHERE TO THE COMPLIANCE REQUIREMENTS OUTLINED IN SUB-SECTION 7 OF THE FIRE DESIGN REPORT.
- GENERATOR/TRANSFORMER AREAS ON-SITE TO ADHERE TO THE FIRE SAFETY REQUIREMENTS AND RECOMMENDATIONS PROVIDED IN SUB-SECTION 8 OF THE FIRE DESIGN REPORT.
- IN THE EVENT THE CLIENT OPTS FOR SOLAR PANELS TO BE INSTALLED ON-SITE, THE INSTALLER AND DESIGN SHALL ADHERE TO THE COMPLIANCE REQUIREMENTS AND RECOMMENDATIONS OUTLINED IN SUB-SECTION 9 OF THE FIRE DESIGN REPORT.
- FIRE SUPPRESSION FOR SERVER ROOM IS NOT REQUIRED AS PART OF SANS 10400-T:2020 CONFORMANCE. SHOULD THE CLIENT REQUIRE A FIRE SUPPRESSION SYSTEM TO BE INSTALLED, THIS WILL NOT FORM PART OF THE FIRE ENGINEER SCOPE AND SHALL BE DONE BY A SPECIALIST.
- MANUAL FIRE DETECTION SYSTEM TO BE INSTALLED IN ACCORDANCE WITH SANS 10139:2021 REGULATIONS.
- REMRAD SYSTEM TO BE INSTALLED AND LINKED TO CLOSEST FIRE DEPARTMENT.
- FIRE DETECTION SYSTEM TO BE AS PER FIRE DETECTION LAYOUT. HVAC SYSTEM TO AUTO-SHUT OFF IN THE EVENT OF A FIRE.



FIRE PUMP ROOM: TYPICAL SECTION
SCALE: N.T.S



FIRE PUMP ROOM PLINTH DETAIL: FLOOR PLAN
SCALE: N.T.S



ELECTRICAL JOCKEY PUMP DETAIL
SCALE: 1:30

PRELIMINARY	
FOR INFORMATION ONLY	✓
FOR APPROVAL	
FOR TENDER PURPOSES	
FOR CONSTRUCTION	

NOTES:

- FOR GENERAL NOTES REFER TO DRAWING
- DRAWINGS ARE NOT TO BE SCALED. ALL LEVELS AND DIMENSIONS TO BE VERIFIED ON SITE PRIOR TO COMMENCEMENT OF WORKS. ANY DISCREPANCIES TO BE BROUGHT TO THE ENGINEERS' ATTENTION IMMEDIATELY
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS, SCHEDULES AND SPECIFICATIONS RELATED TO THIS PROJECT.
- ALL BUILDING WORK AND MATERIALS ARE TO COMPLY WITH LOCAL AUTHORITY'S REQUIREMENTS AND ARE TO BE IN ACCORDANCE WITH SANS 10400 NATIONAL BUILDING REGULATIONS AS WELL AS THE RELEVANT MUNICIPAL BY-LAWS

OCCUPANCY CLASSIFICATION:
G1 - OFFICES
E1 - PLACE OF DETENTION
J2 - MODERATE RISK STORAGE

NO	DATE	DESCRIPTION	DRAWN BY
0	2023/10/27	ISSUED FOR INFORMATION	OA
1	2023/12/14	ISSUED FOR INFORMATION	OA

CLIENT NAME:



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MECHANICAL (FIRE)

PROJECT NAME:

PROPOSED NEW POLICE STATION FOR
SOUTH AFRICAN POLICE SERVICES
(SAPS) - PORTION 4 OF ERF 6934
IKAGENG EXT.4

SHEET TITLE:

FIRE PUMP ROOM AND DEDICATED
FIRE STORAGE TANK LAYOUT

DATE: 2023/12/14	REF NO: 3925
PAPER SIZE: A1	DESIGNED BY: O ADAM
SCALE: 1:50	DRAWN BY: O ADAM
	CHECKED BY: W.J ROUX
DRAWING NUMBER: D3925-MF-A1-03	REV: 1

- ### Fire Signage Legend:
- WHERE CODES ARE INDICATED IN SQUARES ACCORDING WITH THE HOUSE REQUIRING THE SPECIFIC SIGNAGE
- | | | | | | | |
|------|-----|-----|-----|-----|-----|-------|
| E1 | E11 | E21 | F1 | F14 | F25 | F41 |
| E2 | E12 | E22 | F2 | F15 | F26 | F45 |
| E3 | E13 | E23 | F3 | F16 | F27 | F46 |
| E4 | E14 | E24 | F4 | F17 | F28 | F47 |
| EXIT | E15 | E25 | F5 | F18 | F29 | F49 |
| EXIT | E16 | E26 | F6 | F19 | F30 | F42 |
| E7 | E17 | E27 | F7 | F20 | F31 | FN |
| E8 | E18 | F8 | F11 | F21 | F32 | PV27 |
| E9 | F9 | F10 | F12 | F22 | F33 | |
| E10 | E20 | F10 | F13 | F23 | F40 | SIREN |
| EXIT | | | | | | △ |
- NOTE: SOME PHOTOGRAPHS ARE IDENTICAL TO A SIGN - VIEW FIRE SIGNAGE TO SEE WHICH PHOTOGRAPH IS IDENTICAL TO WHICH SIGN



PRELIMINARY	
FOR INFORMATION ONLY	✓
FOR APPROVAL	
FOR TENDER PURPOSES	
FOR CONSTRUCTION	

- | | | | |
|----------------------------|--|--|--|
| OCCUPANCY CLASSIFICATION: | | | |
| G1 - OFFICES | | | |
| E1 - PLACE OF DETENTION | | | |
| J2 - MODERATE RISK STORAGE | | | |
-
- | NO | DATE | DESCRIPTION | DRAWN |
|----|------------|------------------------|-------|
| 0 | 2023/10/27 | ISSUED FOR INFORMATION | QA |
| 1 | 2023/12/14 | ISSUED FOR INFORMATION | QA |

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MECHANICAL (FIRE)

PROJECT NAME:
PROPOSED NEW POLICE STATION FOR
SOUTH AFRICAN POLICE SERVICES
(SAPS) - PORTION 4 OF ERF 6934
IKAGENG EXT.4

SHEET TITLE:

GROUND FLOOR
TRAVEL DISTANCES

DATE: 2023/12/14	REF NO: 3925
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PAPER SIZE: A1	DESIGNED BY: O ADAM
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	CHECKED BY: W.J ROUX

DRAWING NUMBER:
D3925-MF-A0-05