



Project 1017 **Newport energy from waste**
Created 06 October 2022

Document no.
1017.M0.J01.002

Rev.no.
01

Subject **Fire Strategy Report,
Attachments**

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FIRE STRATEGY REPORT - ATTACHMENTS

Rev.	Date	Description	Issuer	Reviewer	Approver
00	2022.10.06	First issue	SIBB	MUKH	PEJO
01	2023.01.31	Revised and additional documentation as noted	SIBB	MUKH	PEJO



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1 3D - Plant Layout

No.	Doc. No.	Title	Revision
1.1	1017.D2.001.101	GENERAL NEW EFW PLANT	R01
1.2	1017.D2.005.101	SECTION A-A & B-B	R01
1.3	1017.D2.007.101	SECTION C-C & D-D	R01
1.4	1017.D2.091.101	3D VIEW LOOK EAST 45~0 NORTH 55~0 DOWN (PROJECT)	R01
1.5	1017.D2.092.101	3D VIEW LOOK EAST 45~0 SOUTH 55~0 DOWN (PROJECT)	R01
1.6	1017.D2.093.101	3D VIEW LOOK WEST 45~0 SOUTH 55~0 DOWN (PROJECT)	R01
1.7	1017.D2.094.101	3D VIEW LOOK WEST 45~0 NORTH 55~0 DOWN (PROJECT)	R01

2 Mechanical - Fire fighting - P&ID

No.	Doc. No.	Title	Revision
2.1	1017.M2.J01.001	Fire water tank	R00
2.2	1017.M2.J02.001	Containerized fire pump unit	R00
2.3	1017.M2.J11.001	Fire ring main	R00
2.4	1017.M2.J12.001	Indoor fire main - STG building	R00
2.5	1017.M2.J13.001	Indoor fire main - Boiler area	R00
2.6	1017.M2.J14.001	Stand pipe 2m to 18m - Boiler area 1	R00
2.7	1017.M2.J14.002	Stand pipe 20m to 32m - Boiler area	R00
2.8	1017.M2.J15.001	Indoor fire main - Fuel bunker area	R00
2.9	1017.M2.J21.001	Sprinkler system - EMG & Fuel unloading area	R00
2.10	1017.M2.J22.001	Sprinkler system - Welfare bldg. ground flr	R00
2.11	1017.M2.J23.001	Sprinkler system - Step-up transformer	R00
2.12	1017.M2.J31.001	Foam system	R00
2.13	1017.M2.J41.001	Dry riser - Boiler area	R00
2.14	1017.M2.J51.001	Inert gas system - Switchgear building	R00
2.15	1017.M2.J52.001	Inert gas system - El. annex	R00
2.16	1017.M2.J53.001	Inert gas system - CEMS	R00
2.17	1017.M2.J54.001	Inert gas system - FGT filter	R00

3 Mechanical – Fire fighting - Process

No.	Doc. No.	Title	Revision
3.1	1017.S2.J01.001	Firefighting system	R03



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FIRE STRATEGY REPORT - ATTACHMENTS

4 Mechanical - Fire fighting - Hose Reel Layout

No.	Doc. No.	Title	Revision
4.1	1017.M4.J09.101	Boiler Building (UHA), Firehose, Ground Floor Plan Level +0.000m	R00
4.2	1017.M4.J09.102	Boiler Building (UHA), Firehose, Plan View, Level +4.880m	R00
4.3	1017.M4.J09.103	Boiler Building (UHA), Firehose, Plan View, Level +7.510m	R00
4.4	1017.M4.J09.104	Boiler Building (UHA), Firehose, Plan View, Level +10.030m	R00
4.5	1017.M4.J09.105	Boiler Building (UHA), Firehose, Plan View, Level +13.210m	R00
4.6	1017.M4.J09.106	Boiler Building (UHA), Firehose, Plan View, Level +18.310m	R00
4.7	1017.M4.J09.107	Boiler Building (UHA), Firehose, Plan View, Level +20.860m	R00
4.8	1017.M4.J09.108	Boiler Building (UHA), Firehose, Plan View, Level +23.410m	R00
4.9	1017.M4.J09.109	Boiler Building (UHA), Firehose, Plan View, Level +25.960m	R00
4.10	1017.M4.J09.110	Boiler Building (UHA), Firehose, Plan View, Level +28.510m	R00
4.11	1017.M4.J09.111	Boiler Building (UHA), Firehose, Plan View, Level +32.655m	R00
4.12	1017.M4.J09.211	Unloading Solid Fuel Building (UEA), Hose Reel Layout	R00
4.13	1017.M4.J09.251	Fuel Bunker Building (UEB), Hose Reel Layout, Ground Floor Plan, Level +2.500m	R00
4.14	1017.M4.J09.253	Fuel Bunker Building (UEB), Hose Reel Layout, Plan View, Level +20.830m	R00
4.15	1017.M4.J09.501	Turbine Building (UMA), Hose Reel Layout, Ground Floor Plan, Level +0.000m	R00
4.16	1017.M4.J09.502	Turbine Building (UMA), Hose Reel Layout, Plan View, Level +2.500m & +3.500m	R00

5 Electrical – Site Lighting

No.	Doc. No.	Title	Revision
5.1	1017.E4.S10.001	Light & Small Power Road Light	R00

6 Civil - Cladding

No.	Doc. No.	Title	Revision
6.1	1017.LP.001.01	UHA UEB Preliminary Cladding Layout	R01
6.2	1017.LP.001.02	UEA UEB Preliminary Cladding Layout	R01
6.3	1017.LP.001.03	UHA UEB Preliminary Cladding Roof Layout	R01
6.4	1017.LP.001.04	UEA UEB Preliminary Cladding Roof Layout	R01



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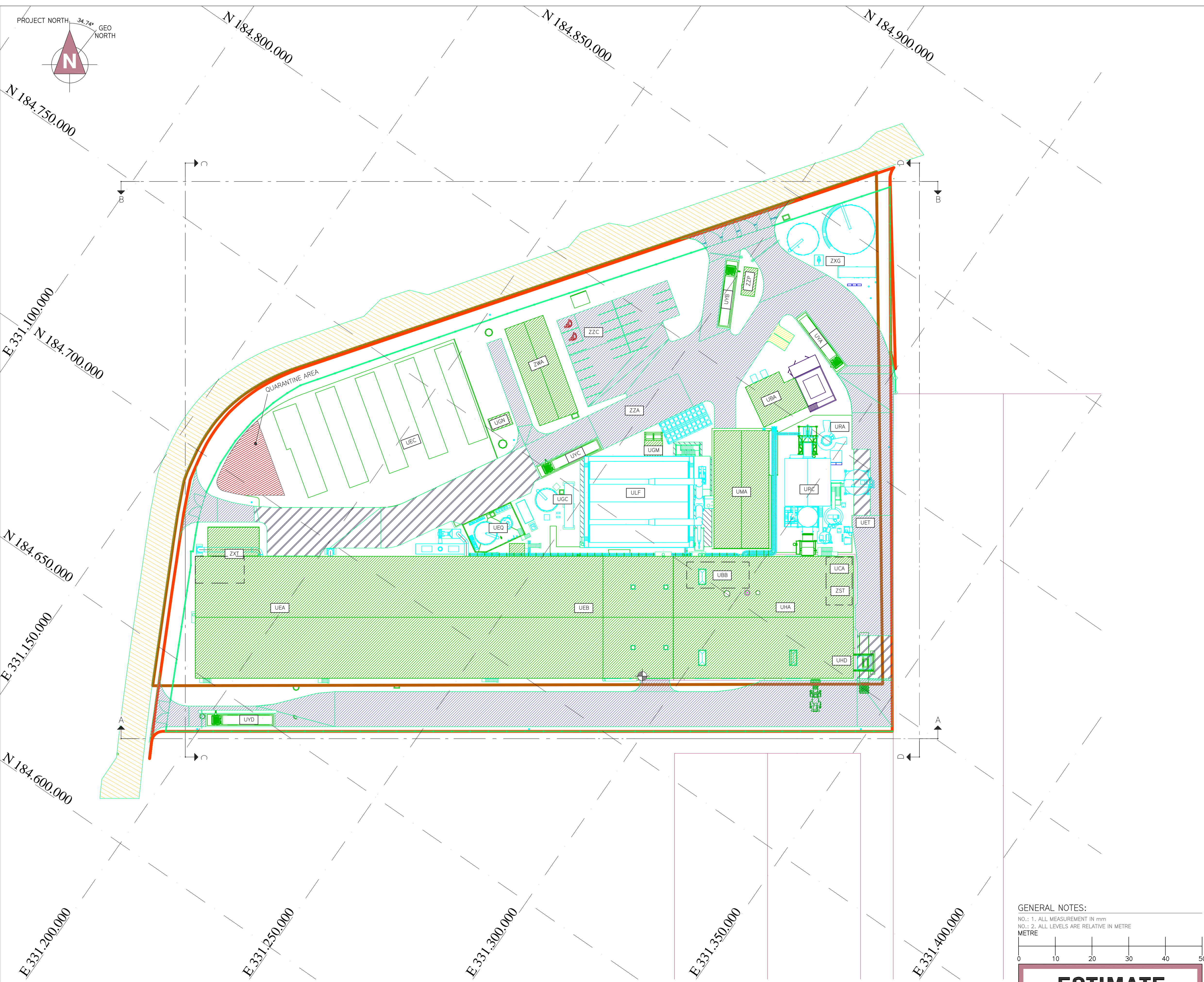
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FIRE STRATEGY REPORT - ATTACHMENTS

7 Civil – Drainage – Surface water, foul and trade

No.	Doc. No.	Title	Revision
7.1	1017.C0.750.000	Site Drainage. Overall Layout	R01
7.2	1017.C0.750.001	Site Drainage. Surface Water. Sheet 1	R01
7.3	1017.C0.750.002	Site Drainage. Surface Water. Sheet 2	R01
7.4	1017.C0.750.003	Site Drainage. Surface Water. Sheet 3	R01
7.5	1017.C0.750.004	Site Drainage. Surface Water. Sheet 4	R01
7.6	1017.C0.750.005	Site Drainage. Surface Water. Sheet 5	R01
7.7	1017.C0.750.011	Site Drainage. Foul & Trade Effluent. Sheet 1	R02
7.8	1017.C0.750.012	Site Drainage. Foul & Trade Effluent. Sheet 2	R02
7.9	1017.C0.750.013	Site Drainage. Foul & Trade Effluent. Sheet 3	R02
7.10	1017.C0.750.014	Site Drainage. Foul & Trade Effluent. Sheet 4	R02



UBA	SWITCHGEAR BUILDING
UBB	ELECTRICAL ANNEX (WITHIN UHA)
UCA	CONTROL ROOM BUILDING (WITHIN UHA)
UEA	UNLOADING SOLID FUEL BLDG.
UEB	FUEL BUNKER BUILDING
UEC	SOLID FUEL HANDLING AREA
UEQ	FUEL & UREA TANK AREA
UET	ASH & RESIDUES STORAGE AREA
UGC	WATER TREATMENT AREA
UGM	SEDIMENTATION BASIN
UGN	TRADE EFFLUENT TREATMENT AREA
UHA	BOILER BUILDING
UHD	SLAG STORAGE BUILDING
ULF	AIR COOLED CONDENSER AREA
UMA	TURBINE BUILDING
URA	STACK AREA
URC	FLUE GAS TREATMENT AREA
UYA	WEIGHBRIDGE IN FOR UTILITIES
UYB	WEIGHBRIDGE OUT
UYC	WEIGHBRIDGE IN
UYD	WEIGHBRIDGE OUT FOR UTILITIES
ZST	MECHANICAL WORKSHOP (WITHIN UHA)
ZWA	WELFARE BUILDING
ZYG	RAW WATER & FIRE EQUIPMENT AREA
ZXT	WORKSHOP & SHREDDER PARKING BLDG.
ZZA	REMAINING SITE
ZZP	GATE HOUSE

LEGEND:

- MECHANICAL EQUIPMENT
- ELECTRICAL EQUIPMENT
- OTHER SUPPLIER
- BUILDINGS
- ASPHALT ROAD
- CONCRETE ROAD
- PAVEMENT
- GRAVEL
- OUTSIDE ROAD
- DNO PARKING
- QUARANTINE AREA
- FENCE
- PLANNING BOUNDARY
- PROPERTY BOUNDARY
- ACCESSIBLE PARKING

REFERENCE:
1017:D2.005.101 SECTION A-A & B-B
1017:D2.007.101 SECTION C-C & D-D

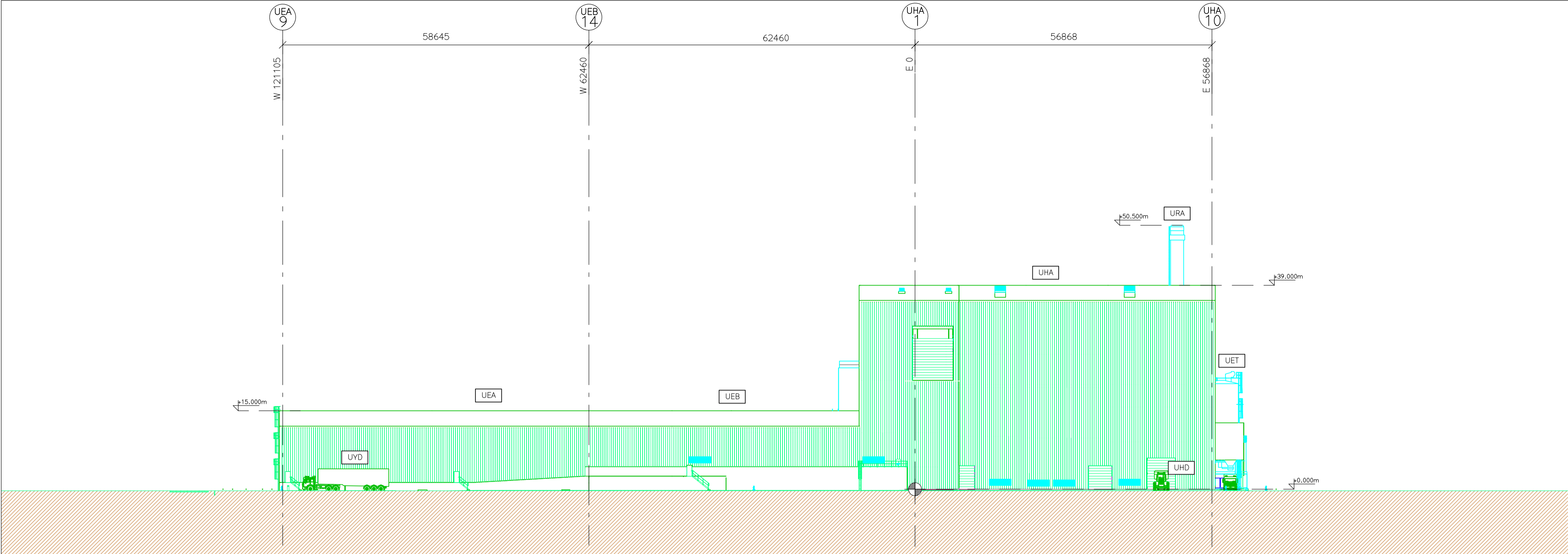
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OWNER:						TOM LEWIS WAY, ALEXANDRA DOCK NEWPORT, WALES UK NP20 2WF TELEPHONE :+44 01782 384898
SPONSOR:						ST HELENS, 1 UNDERSHAFT LONDON, EC3P 3QJ UK, VAT REG NO. 220227168 TELEPHONE :+44 (0)207 809 6000
PROJECT MANAGER:						BLVTHE HOUSE, BLYTHE PARK, CRESSWELL, STOKE ON TRENT, STAFFORDSHIRE ST11-9RD, UK TELEPHONE :+44 01782 384898
CONTRACTOR:						GYDEVANG 39-41 DK 3450 ALLERØD, DENMARK PHONE :+45 3326 6401 EMAIL :WWW.SECCONTRACTOR.DK
PROJECT:						NEWPORT ENERGY FROM WASTE PLANT
SUB-CONTRACTOR:						
SUBJECT:						SITE PLAN (ZZA) LAYOUT GENERAL NEW EPW PLANT
SCALE:				SEC DWG.NO.:		
A1=1:500 A3=1:1000				1017:D2.001.101		
				PROJECT NO. GR. NO. SHT.		
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GENERAL NOTES:
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NO.: 2. ALL LEVELS ARE RELATIVE IN METRE
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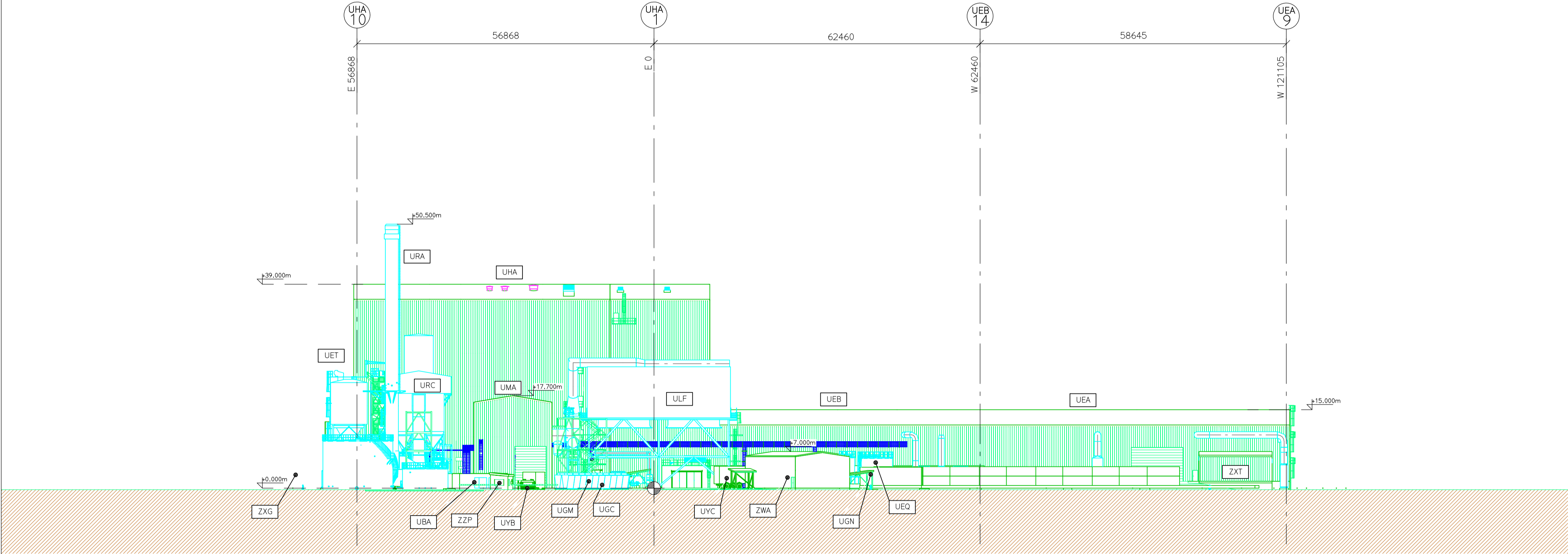
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ESTIMATE

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SECTION A-A: LOOK NORTH (PROJECT DIRECTION)



SECTION B-B: LOOK SOUTH (PROJECT DIRECTION)

UBA	SWITCHGEAR BUILDING
UEA	UNLOADING SOLID FUEL BLDG.
UEB	FUEL BUNKER BUILDING
UEQ	FUEL & UREA TANK AREA
UET	ASH & RESIDUES STORAGE AREA
UGC	WATER TREATMENT AREA
UGM	SEDIMENTATION BASIN
UGN	TRADE EFFLUENT TREATMENT AREA
UHA	BOILER BUILDING
UHD	SLAG STORAGE BUILDING
ULF	AIR COOLED CONDENSER AREA
UMA	TURBINE BUILDING
URA	STACK AREA
URC	FLUE GAS TREATMENT AREA
UYB	WEIGHBRIDGE OUT
UYC	WEIGHBRIDGE IN
UYD	WEIGHBRIDGE OUT FOR UTILITIES
ZWA	WELFARE BUILDING
ZXC	RAW WATER & FIRE EQUIPMENT AREA
ZXT	WORKSHOP & SHREDDER PARKING BLDG.
ZZP	GATE HOUSE

LEGEND:	
	ELECTRICAL EQUIPMENT
	MECHANICAL EQUIPMENT
	EARTH

GENERAL NOTES:
NO.: 1. ALL MEASUREMENT IN mm
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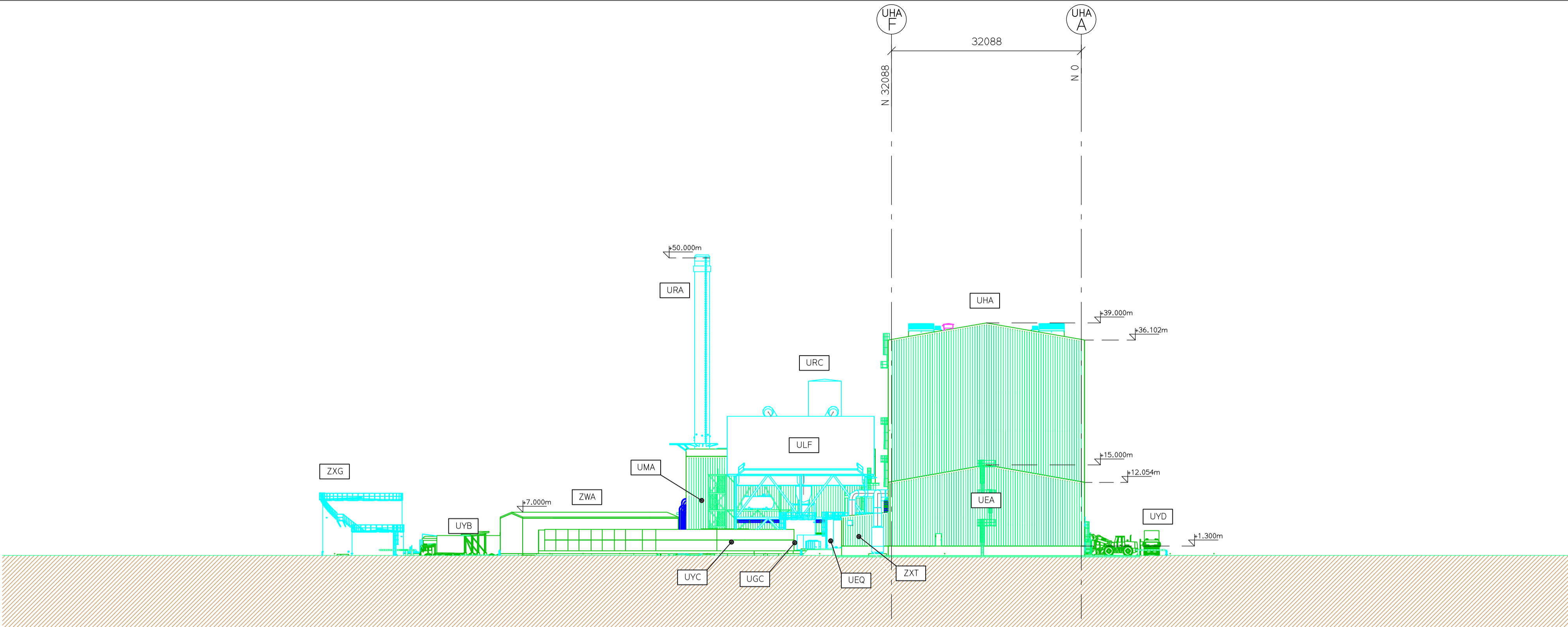
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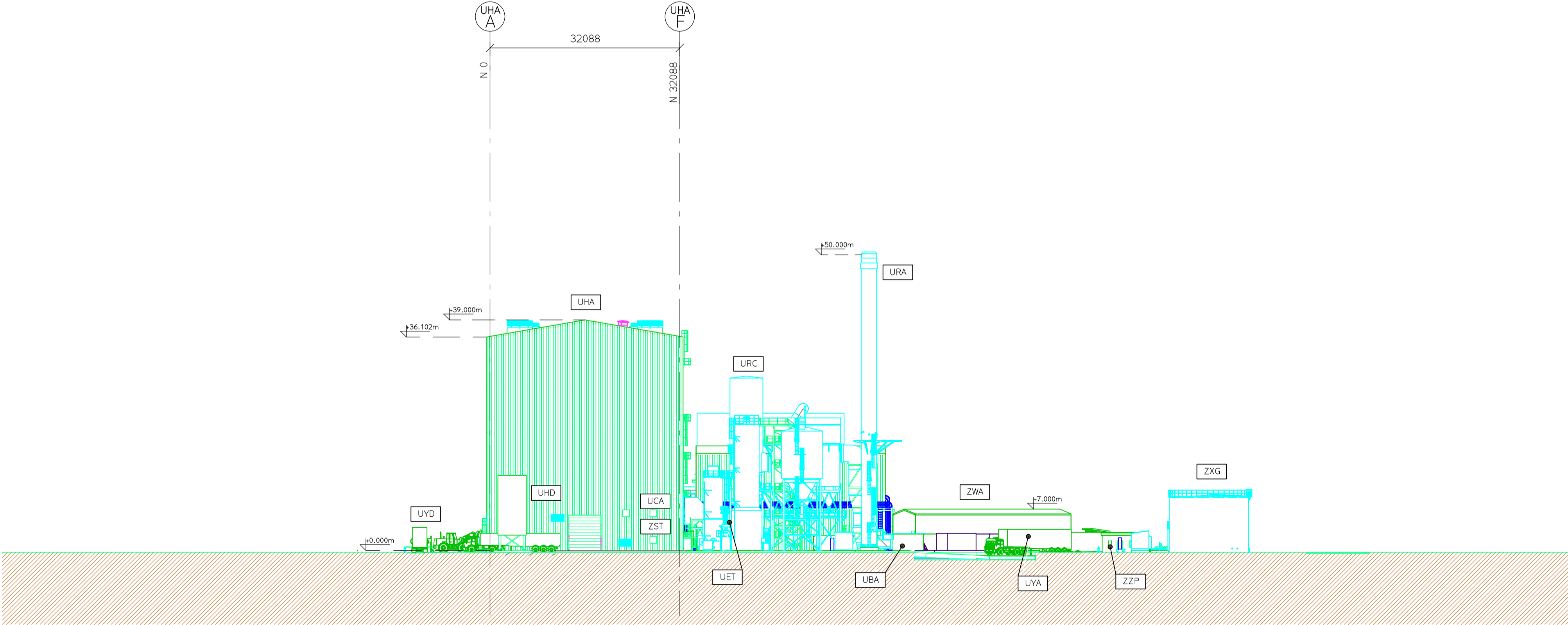
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0	2022.11.04	MARVA	STAA			RKNP
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OWNER:				TOM LEWIS WAY, ALEXANDRA DOCK NEWPORT, WALES UK NP20 2WF TELEPHONE :+44 01782 384898		
RDF ENERGY NO. 1 LTD						
SPONSOR:				ST HELEN'S, 1 UNDERSHAFT LONDON, EC3P 3DQ UK, VAT REG NO. Z20227168 TELEPHONE :+44 (0)207 809 6000		
PROJECT MANAGER:				BLTYE HOUSE, BLYTHE PARK, CRESSWELL, STOKE ON TRENT, STAFFORDSHIRE ST11-9RD, UK TELEPHONE :+44 01782 384898		
CONTRACTOR:				GYDEVANG 39-41 DK 3450 ALLERØED, DENMARK PHONE :+45 3226 6401 EMAIL :WWW.SECONTRACTOR.DK		
PROJECT: NEWPORT ENERGY FROM WASTE PLANT						
SUB-CONTRACTOR:						
SUBJECT: SITE PLAN (ZZA) LAYOUT SECTION A-A & B-B						
SCALE:		SEC DWG.NO.:		PROJECT NO. GR. NO. SHT.		
A1=1:500 A3=1:1000				1017:02:005:101		
				1 REV.		

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SECTION C-C: LOOK EAST (PROJECT DIRECTION)



SECTION D-D: LOOK WEST (PROJECT DIRECTION)

UBA	SWITCHGEAR BUILDING
UCA	CONTROL ROOM BUILDING (WITHIN UHA)
UEA	UNLOADING SOLID FUEL BLDG.
UEQ	FUEL & UREA TANK AREA
UET	ASH & RESIDUES STORAGE AREA
UGC	WATER TREATMENT AREA
UHA	BOILER BUILDING
UHD	SLAG STORAGE BUILDING
ULF	AIR COOLED CONDENSER AREA
UMA	TURBINE BUILDING
URA	STACK AREA
URC	FLUE GAS TREATMENT AREA
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ZST	MECHANICAL WORKSHOP (WITHIN UHA)
ZWA	WELFARE BUILDING
ZXG	RAW WATER & FIRE EQUIPMENT AREA
ZXT	WORKSHOP & SHREDDER PARKING BLDG.
ZZP	GATE HOUSE

LEGEND:	
	MECHANICAL EQUIPMENT
	ELECTRICAL EQUIPMENT
	OTHER SUPPLIER
	EARTH

GENERAL NOTES:
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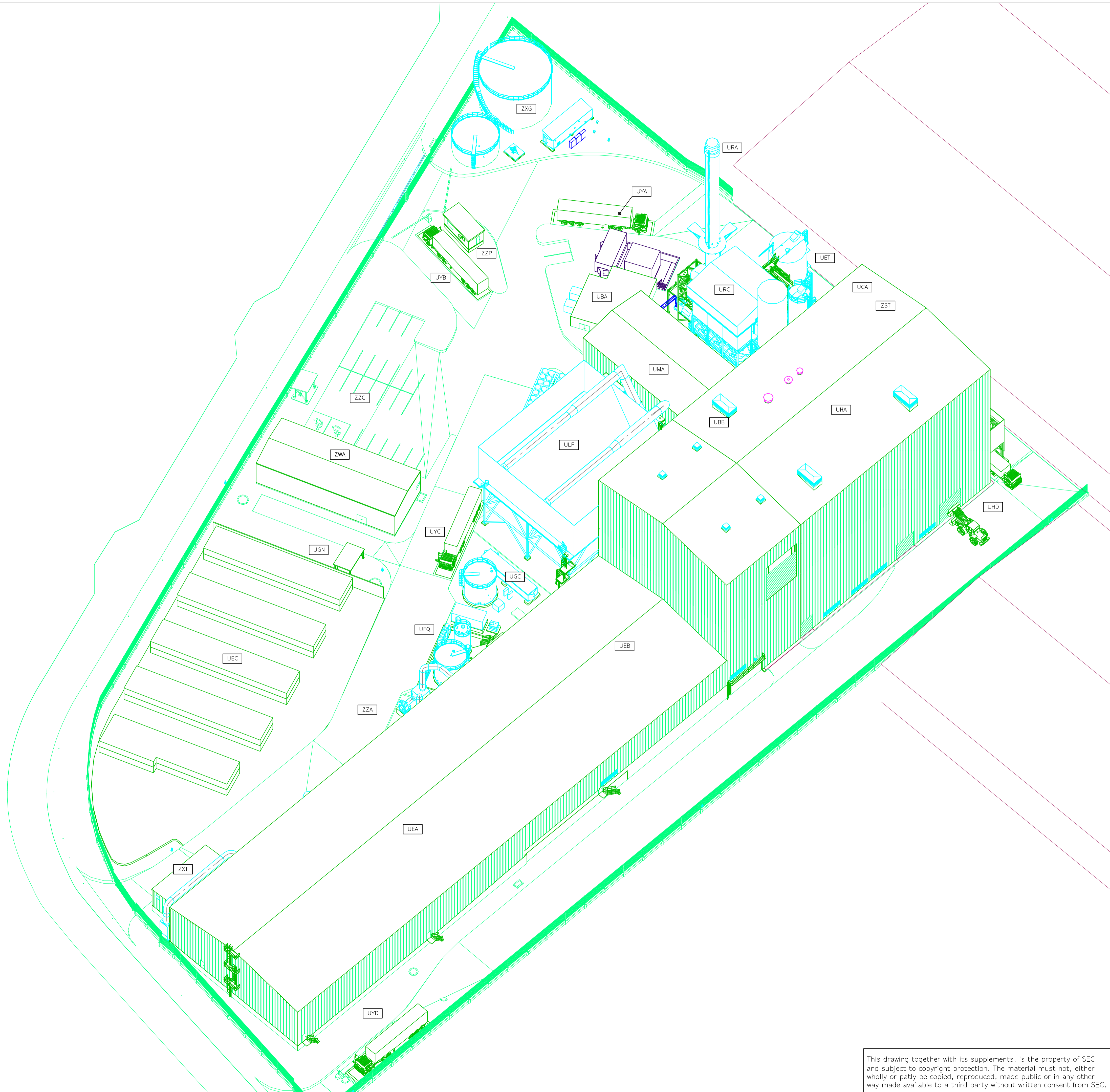
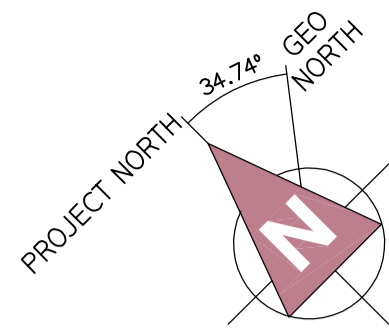
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ESTIMATE

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0	2022.11.04	MARVA	STAA			RKNP
REV	DATE	DRAWN BY	CHECKED BY	DESCRIPTION		APPROVED BY
OWNER:						TOM LEWIS WAY, ALEXANDRA DOCK NEWPORT, WALES UK NP20 2WF TELEPHONE :+44 01782 384898
SPONSOR:						ST HELEN'S, 1 UNDERSHAFT LONDON, EC3P 3DQ UK, VAT REG NO. 220227168 TELEPHONE :+44 (0)207 809 6000
PROJECT MANAGER:						BLTYE HOUSE, BLYTHE PARK, CRESSWELL, STOKE ON TRENT, STAFFORDSHIRE ST11-9RD, UK TELEPHONE :+44 01782 384898
CONTRACTOR:						GYDEVANG 39-41 DK 3450 ALLERED, DENMARK PHONE :+45 3226 6401 EMAIL :WWW.SECONTRACTOR.DK
PROJECT:						NEWPORT ENERGY FROM WASTE PLANT
SUB-CONTRACTOR:						
SUBJECT:						SITE PLAN (ZZA) LAYOUT SECTION C-C & D-D
SCALE:			SEC DWG.NO.:			
A1=1:500 A3=1:1000			1017:02:007:101			
			PROJECT NO. GR. NO. SHT.			
			REV.			

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UBA	SWITCHGEAR BUILDING
UBB	ELECTRICAL ANNEX (WITHIN UHA)
UCA	CONTROL ROOM BUILDING (WITHIN UHA)
UEA	UNLOADING SOLID FUEL BLDG.
UEB	FUEL BUNKER BUILDING
UEC	SOLID FUEL HANDLING AREA
UEQ	FUEL & UREA TANK AREA
UET	ASH & RESIDUES STORAGE AREA
UGC	WATER TREATMENT AREA
UGN	TRADE EFFLUENT TREATMENT AREA
UHA	BOILER BUILDING
UHD	SLAG STORAGE BUILDING
ULF	AIR COOLED CONDENSER AREA
UMA	TURBINE BUILDING
URA	STACK AREA
URC	FLUE GAS TREATMENT AREA
UYA	WEIGHBRIDGE IN FOR UTILITIES
UYB	WEIGHBRIDGE OUT
UYC	WEIGHBRIDGE IN
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ZZA	REMAINING SITE
ZXT	WORKSHOP & SHREDDER PARKING BLDG.
ZZC	PARKING AREA
ZZP	GATE HOUSE

LEGEND:

- MECHANICAL EQUIPMENT
- ELECTRICAL EQUIPMENT
- EXISTING BUILDINGS & EQUIPMENT
- OTHER SUPPLIER

ESTIMATE

REV	DATE	DRAWN BY	CHECKED BY	DESCRIPTION	APPROVED BY
1	2023.01.27	MARVA	STAA		RKNP
0	2022.11.04	MARVA	STAA		RKNP

OWNER:
RDF ENERGY NO. 1 LTD
TOM LEMES WAY, ALEXANDRA DOCK
NEWPORT, WALES
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DK-3450 ALLERED, DENMARK
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EMAIL :WWW.SECONTRACTOR.DK

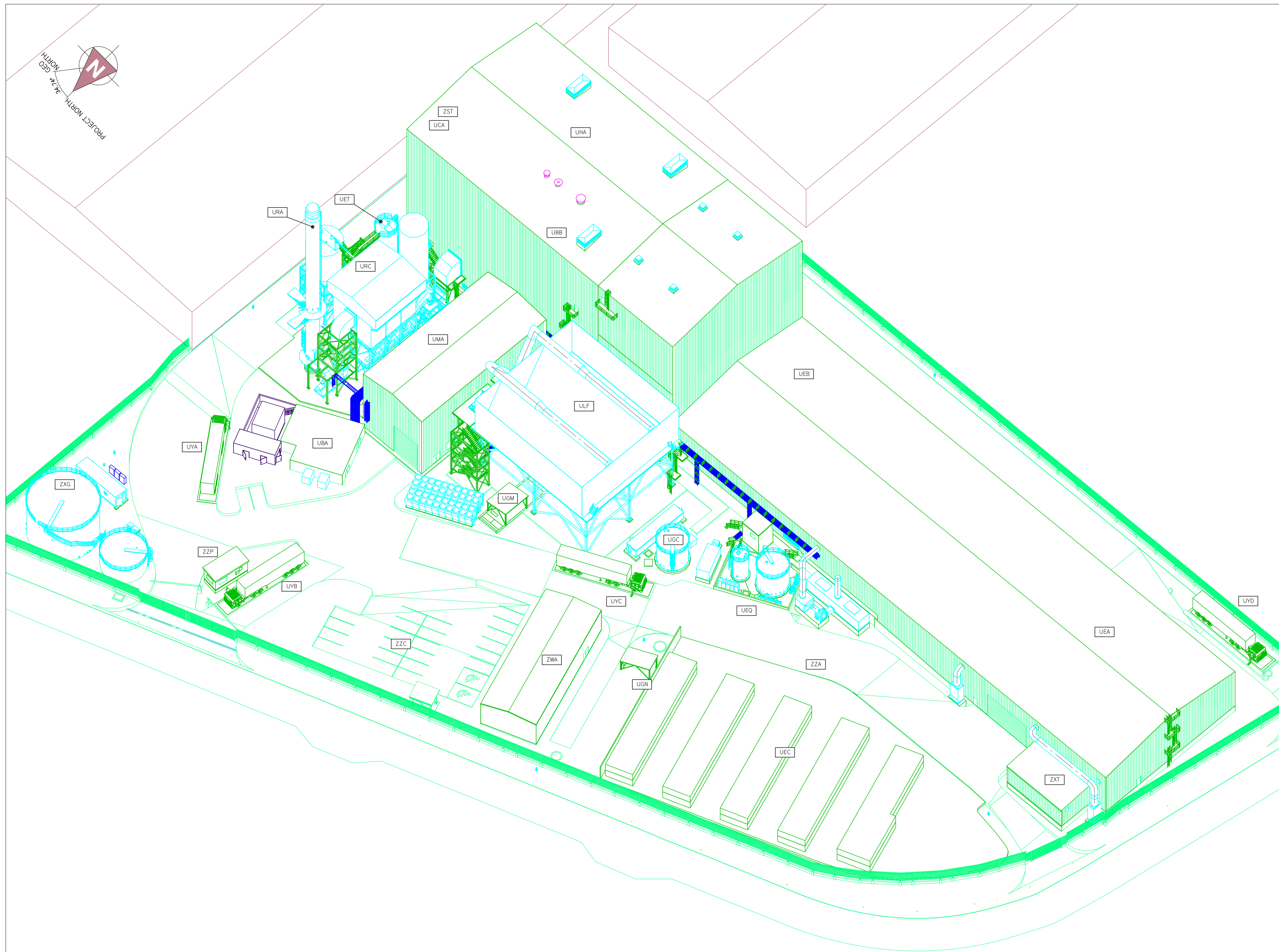
PROJECT:
NEWPORT ENERGY FROM WASTE PLANT

SUB-CONTRACTOR:

SUBJECT:
SITE PLAN (ZZA)
LAYOUT
3D VIEW: LOOK EAST 45° NORTH 55° DOWN (PROJECT DIRECTION)

SCALE: A1=NO SCALE A3=NO SCALE	SEC DWG.NO.: 1017, D2, 091, 101 PROJECT NO. GR. NO. REV. SHT.	1
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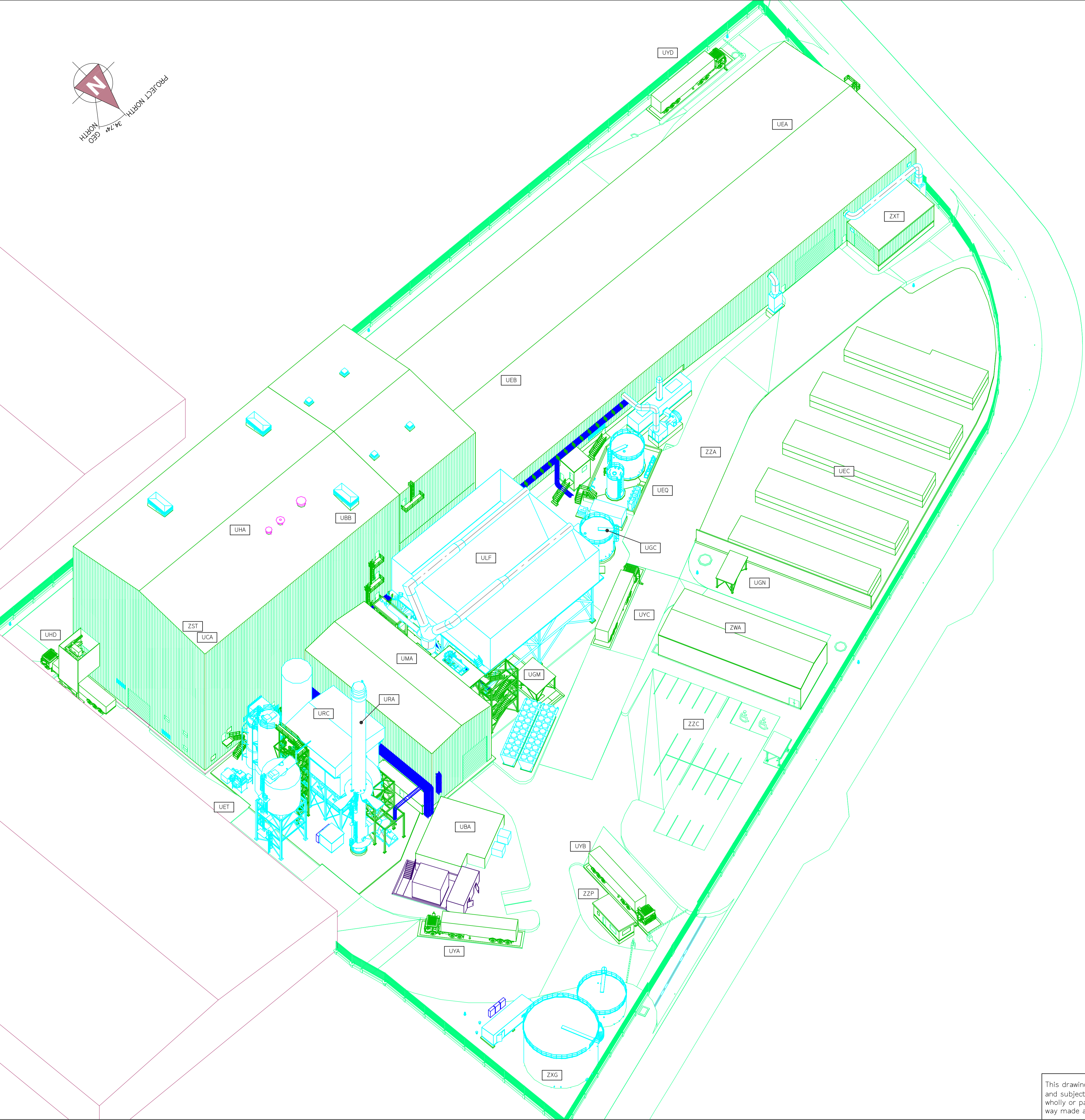
LEGEND:

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	MECHANICAL EQUIPMENT
	EXISTING BUILDINGS & EQUIPMENT
	OTHER SUPPLIER

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RDF ENERGY NO. 1 LTD						
SPONSOR:						ST HELEN'S, 1 UNDERSHAF LONDON, EC3P 3DD UK, VAT REG NO. Z2022T7168 TELEPHONE :+44 (0)207 809 6000
PROJECT MANAGER:						BLYTHE HOUSE, BLYTHE PARK, CRESSWELL, STOKES ON TRENT, STAFFORDSHIRE S11-19D, UK TELEPHONE :+44 (0)1782 384998
CONTRACTOR:						GYDEVANG 39-41 DK 3450 ALLERØD, DENMARK PHONE :+45 3226 6401 EMAIL :WWW.SECONTRACTOR.DK
PROJECT:						
SUB-CONTRACTOR:						
SUBJECT:						
SITE PLAN (ZZA)						
LAYOUT						
3D VIEW: LOOK EAST 45° SOUTH 55° DOWN (PROJECT DIRECTION)						
SCALE:		SEC DWG.NO.: <u>1017</u> : <u>D2</u> : <u>092</u> : <u>101</u> PROJECT NO. GR. NO. SH.				
A1=NO SCALE A3=NO SCALE						

SCALE: A1=NO SCALE
A3=NO SCALE





SEC DWG.NO.: 1017 : D2 : 092 : 101
PROJECT NO. GR. NO. SHT.



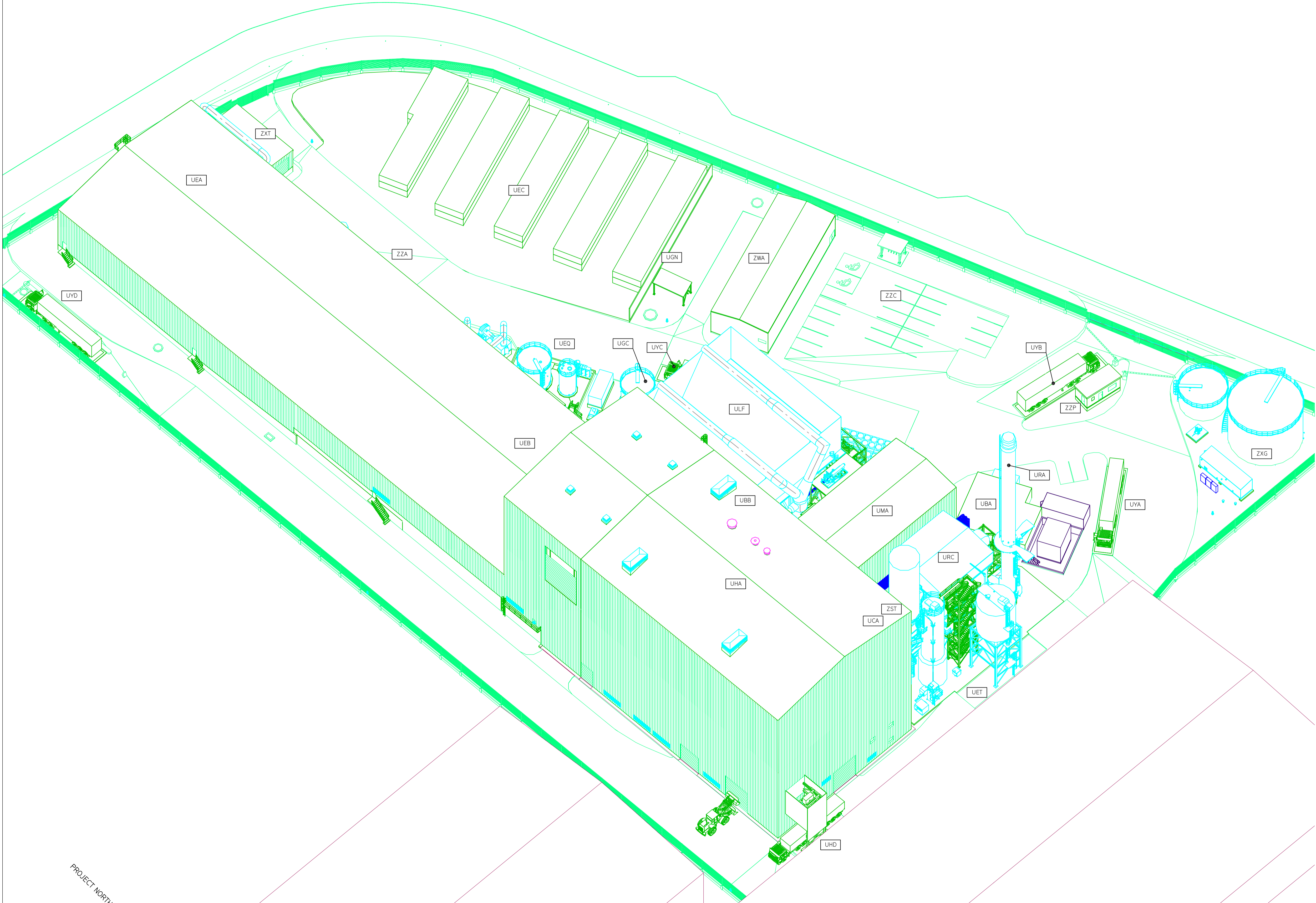
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UYA	WEIGHBRIDGE IN FOR UTILITIES
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UEQ	FUEL & UREA TANK AREA
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ZZA	REMAINING SITE
ZXT	WORKSHOP & SHREDDER PARKING BLDG.
ZZC	PARKING AREA
ZZP	GATE HOUSE

LEGEND:	
	ELECTRICAL EQUIPMENT
	MECHANICAL EQUIPMENT
	EXISTING BUILDINGS & EQUIPMENT
	OTHER SUPPLIER

ESTIMATE

1	2023.01.27	MARVA	STAA			RKNP
0	2022.11.04	MARVA	STAA			RKNP
REV	DATE	DRAWN BY	CHECKED BY	DESCRIPTION		APPROVED BY
OWNER:				TOM LEWIS WAY, ALEXANDRA DOCK NEWPORT, WALES UK NP20 2WF TELEPHONE :+44 01782 384898		
RDF ENERGY NO. 1 LTD						
SPONSOR:				ST HELEN'S, 1 UNDERSHAFT LONDON, EC3P 3DQ UK, VAT REG NO. 220227168 TELEPHONE :+44 (0)207 809 6000		
						
PROJECT MANAGER:				BLYTHE HOUSE, BLYTHE PARK, CRESSWELL, STOKES ON TRENT, STAFFORDSHIRE ST11-9RD, UK TELEPHONE :+44 01782 384898		
						
CONTRACTOR:				GYDEVANG 39-41 DK 3450 ALLERED, DENMARK PHONE :+45 3226 6401 EMAIL :WWW.SECONTRACTOR.DK		
				SCANDINAVIAN ENERGY CONTRACTOR		
PROJECT: NEWPORT ENERGY FROM WASTE PLANT						
SUB-CONTRACTOR:						
SUBJECT: SITE PLAN (ZZA) LAYOUT 3D VIEW: LOOK WEST 45° SOUTH 55° DOWN (PROJECT DIRECTION)						
SCALE:		SEC DWG.NO.:				
A1=NO SCALE		1017 : D2 : 093 : 101				
A3=NO SCALE		PROJECT NO. GR. NO. SHT.				
						

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UBA	SWITCHGEAR BUILDING
UBB	ELECTRICAL ANNEX (WITHIN UHA)
UCA	CONTROL ROOM BUILDING (WITHIN UHA)
UEA	UNLOADING SOLID FUEL BLDG.
UEB	FUEL BUNKER BUILDING
UEC	SOLID FUEL HANDLING AREA
UEQ	FUEL & UREA TANK AREA
UET	ASH & RESIDUES STORAGE AREA
UGC	WATER TREATMENT AREA
UGN	TRADE EFFLUENT TREATMENT AREA
UHA	BOILER BUILDING
UHD	SLAG STORAGE BUILDING
ULF	AIR COOLED CONDENSER AREA
UMA	TURBINE BUILDING
URA	STACK AREA
URC	FLUE GAS TREATMENT AREA
UYA	WEIGHBRIDGE IN FOR UTILITIES
UYB	WEIGHBRIDGE OUT
UYC	WEIGHBRIDGE IN
UYD	WEIGHBRIDGE OUT FOR UTILITIES
ZST	MECHANICAL WORKSHOP (WITHIN UHA)
ZWA	WELFARE BUILDING
ZYG	RAW WATER & FIRE EQUIPMENT AREA
ZZA	REMAINING SITE
ZXT	WORKSHOP & SHREDDER PARKING BLDG.
ZYC	PARKING AREA
ZZP	GATE HOUSE

LEGEND:

- ELECTRICAL EQUIPMENT
- MECHANICAL EQUIPMENT
- EXISTING BUILDINGS & EQUIPMENT
- OTHER SUPPLIER

ESTIMATE

REV	DATE	DRAWN BY	CHECKED BY	DESCRIPTION	APPROVED BY
1	2023.01.27	MARVA	STAA		RKNP
0	2022.11.04	MARVA	STAA		RKNP

OWNER:
RDF ENERGY NO. 1 LTD
TOM LEWIS WAY, ALEXANDRA DOCK
NEWPORT, WALES
UK NP20 2WF
TELEPHONE :+44 01782 384898

SPONSOR:
AVIVA
ST HELENS, 1 UNDERSHAFT
LONDON, EC3P 3DQ
UK, VAT REG NO. 220227168
TELEPHONE :+44 (0)207 809 6000

PROJECT MANAGER:
CoGen
BLYTHE HOUSE, BLYTHE PARK,
CRESSWELL, STOKE ON TRENT,
STAFFORDSHIRE ST11-9RD, UK
TELEPHONE :+44 01782 384898

CONTRACTOR:
SCANDINAVIAN ENERGY CONTRACTOR
GYDEVANG 39-41
DK 3450 ALLERED, DENMARK
PHONE :+45 3226 6401
EMAIL :WWW.SECONTRACTOR.DK

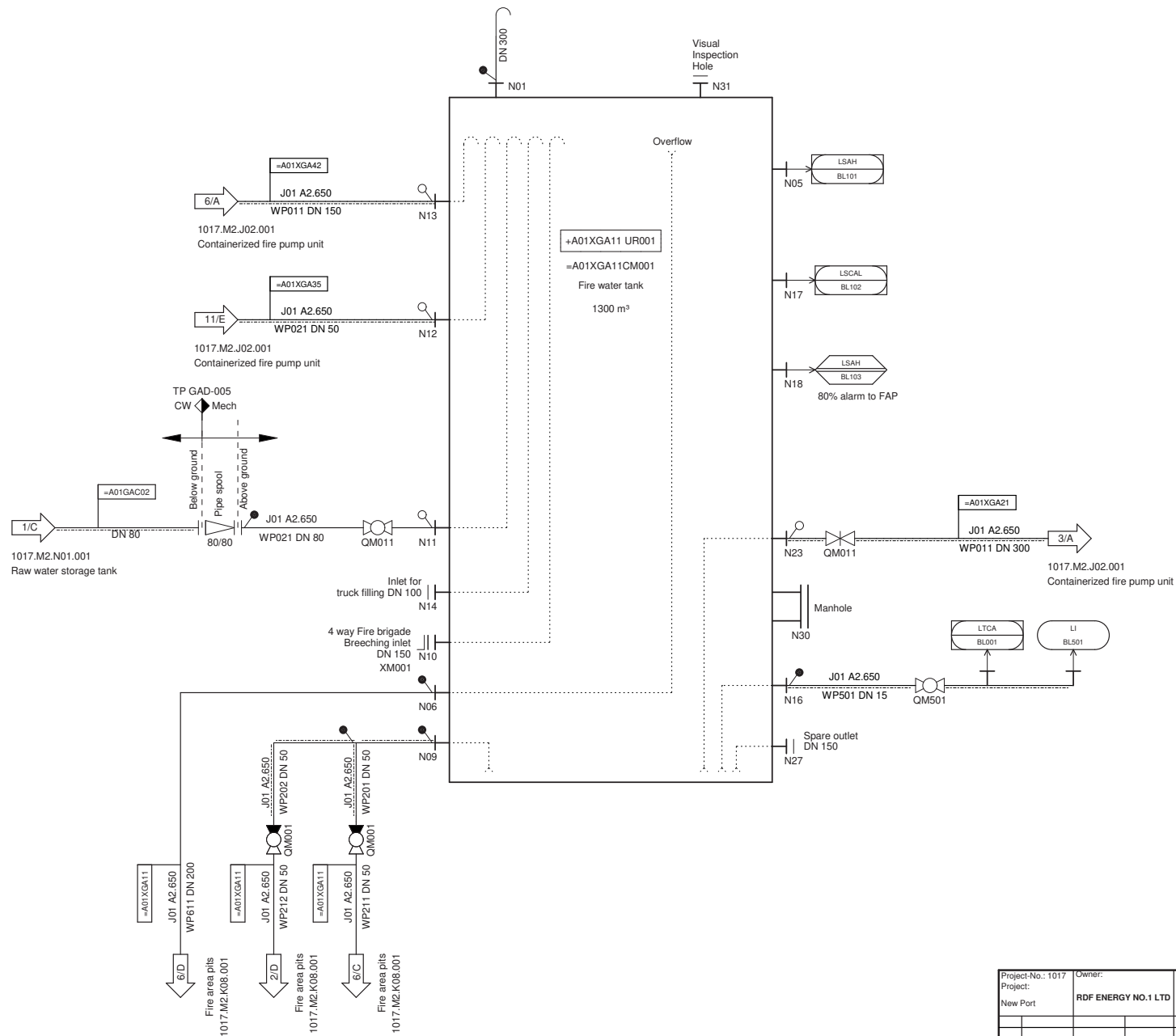
PROJECT:
NEWPORT ENERGY FROM WASTE PLANT





SUB-CONTRACTOR:

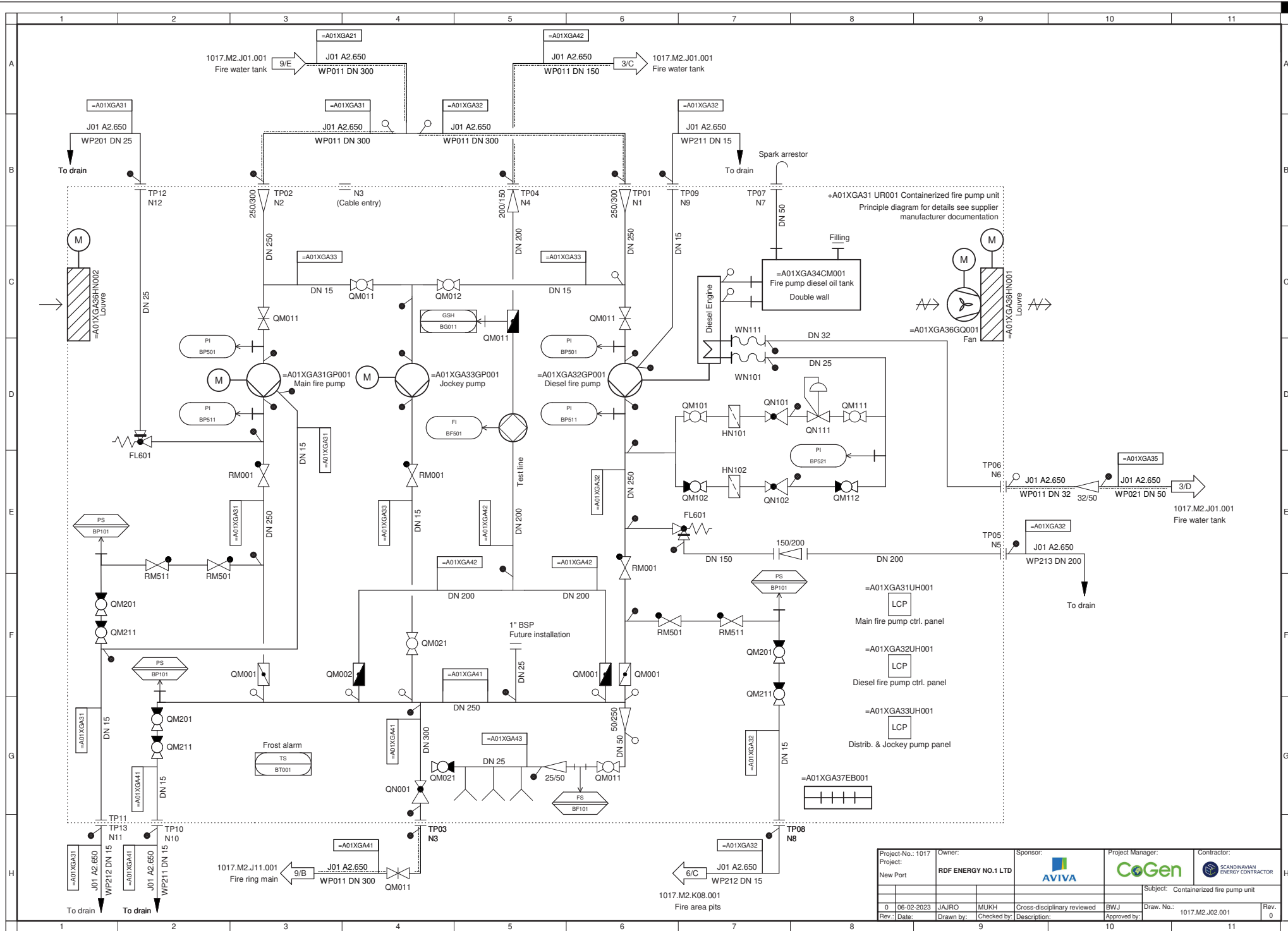
SUBJECT:
SITE PLAN (ZZA)
LAYOUT
3D VIEW: LOOK WEST 45° NORTH 55° DOWN (PROJECT DIRECTION)

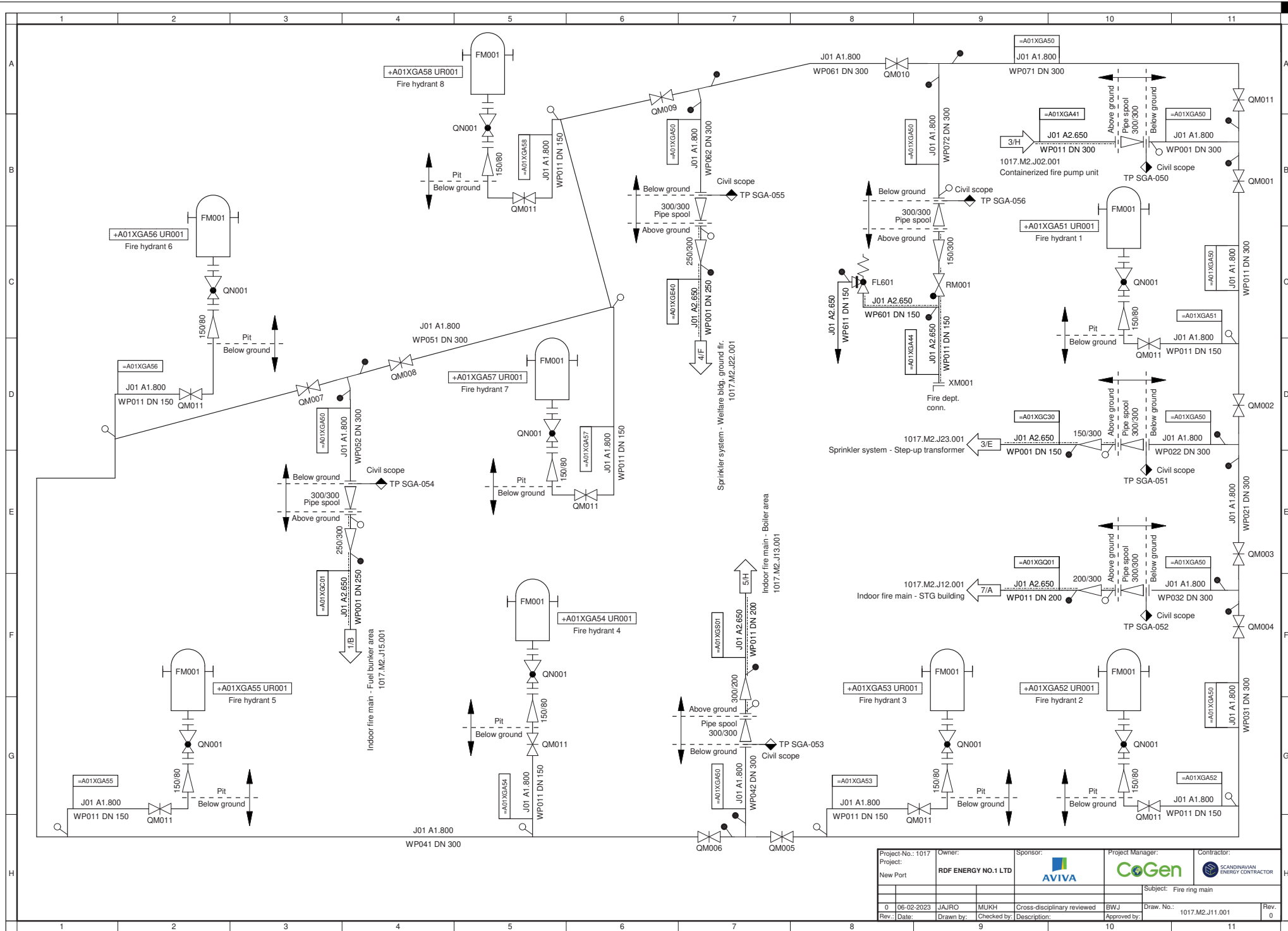
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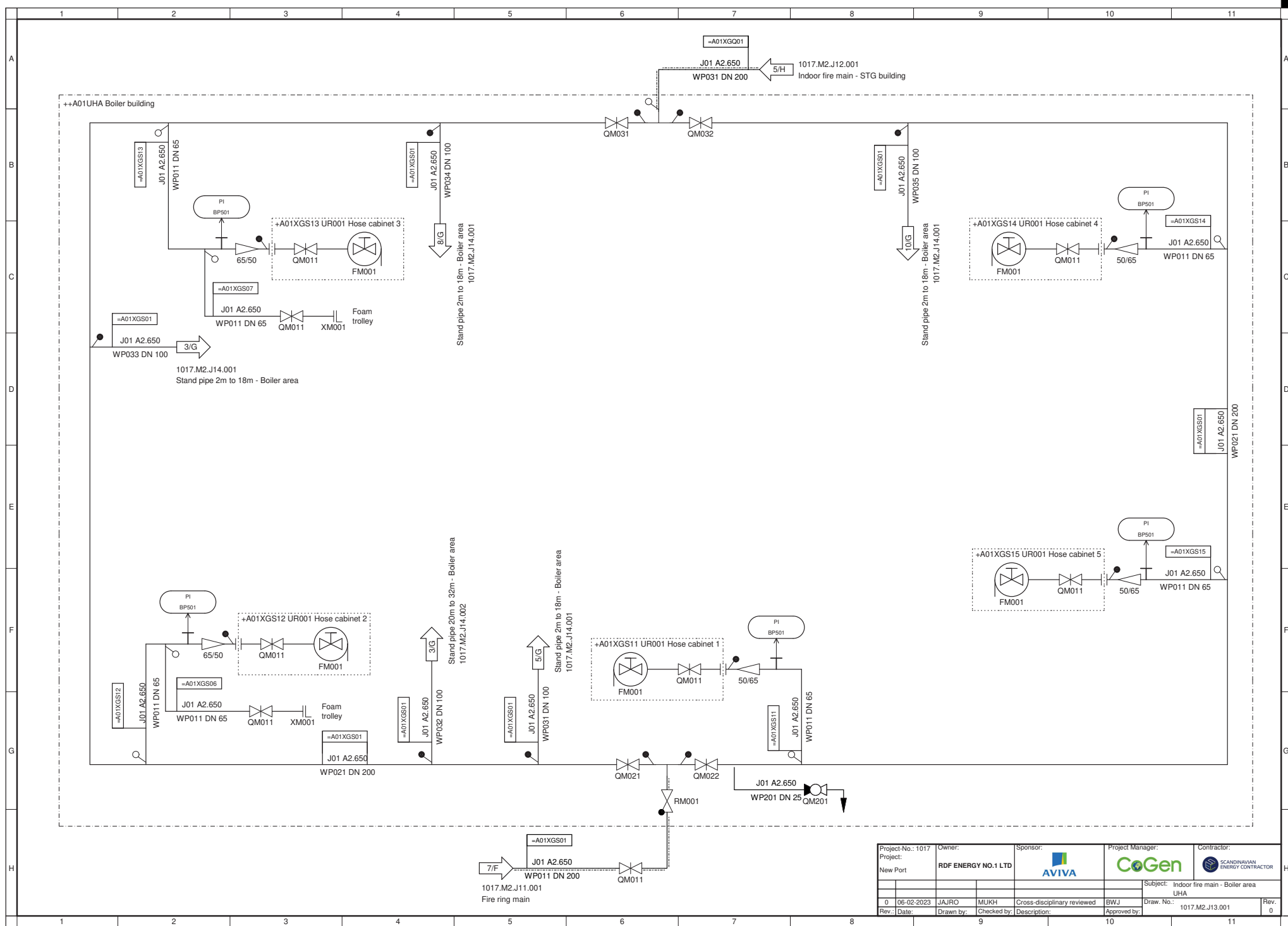
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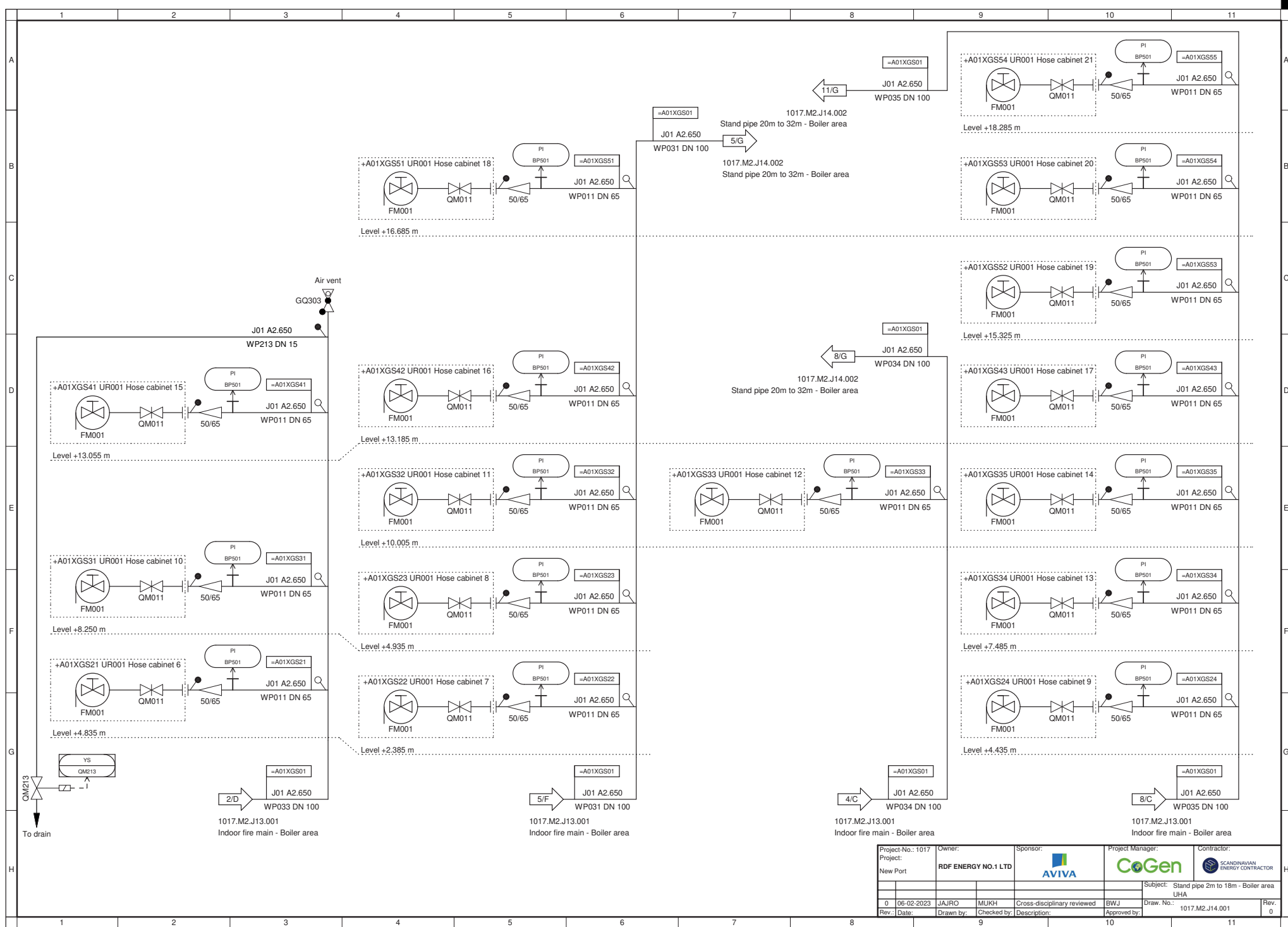
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Project:		RDF ENERGY NO.1 LTD							
New Port									
						Subject: Fire water tank			
0		06-02-2023		JAJ/RO		MUKH		Cross-disciplinary reviewed	
Rev.:		Date:		Drawn by:		Checked by:		Description:	
								Approved by: 	
						BWJ		Draw. No.: 1017.M2.J01.001	
								Rev. 0	

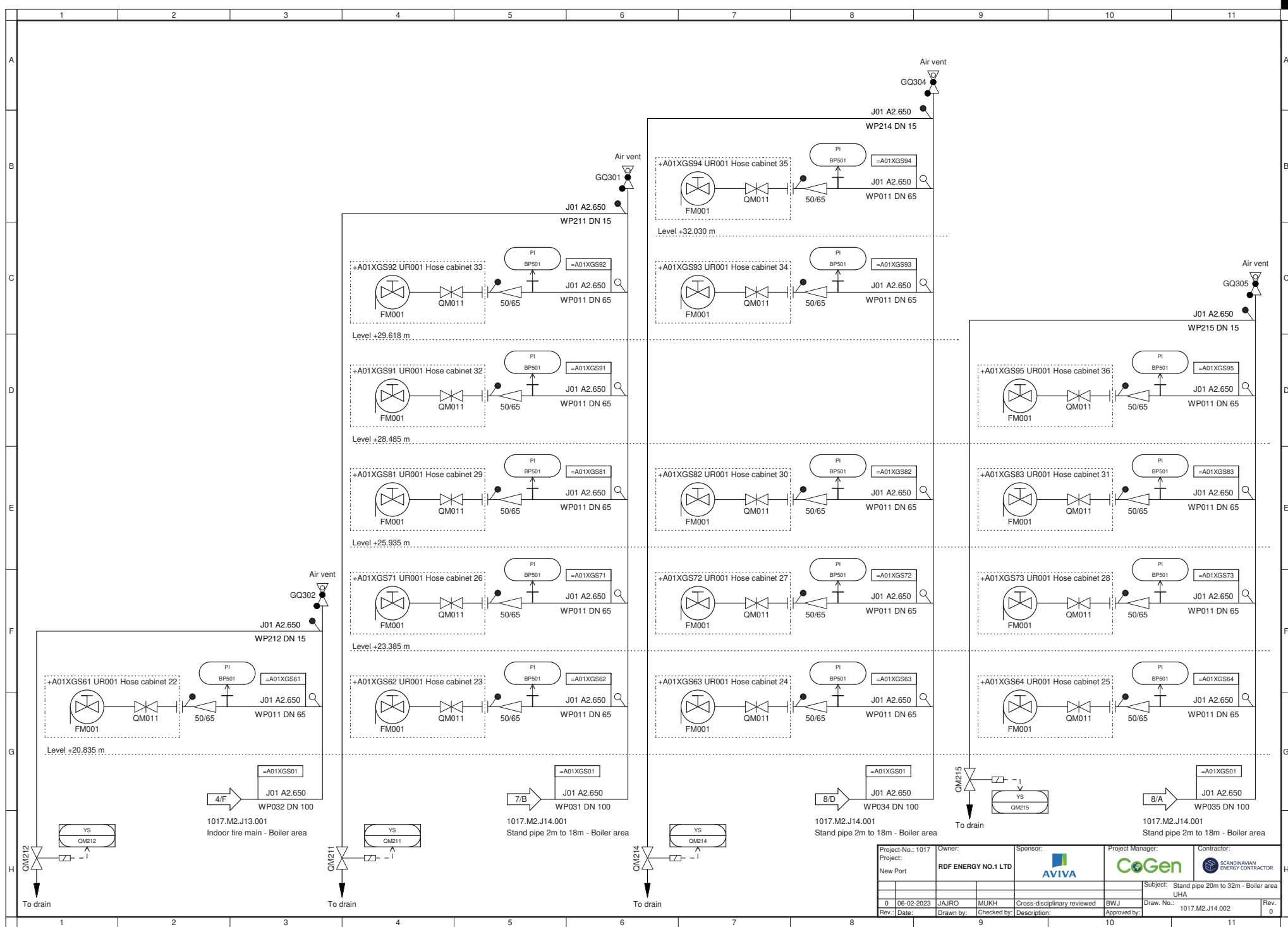


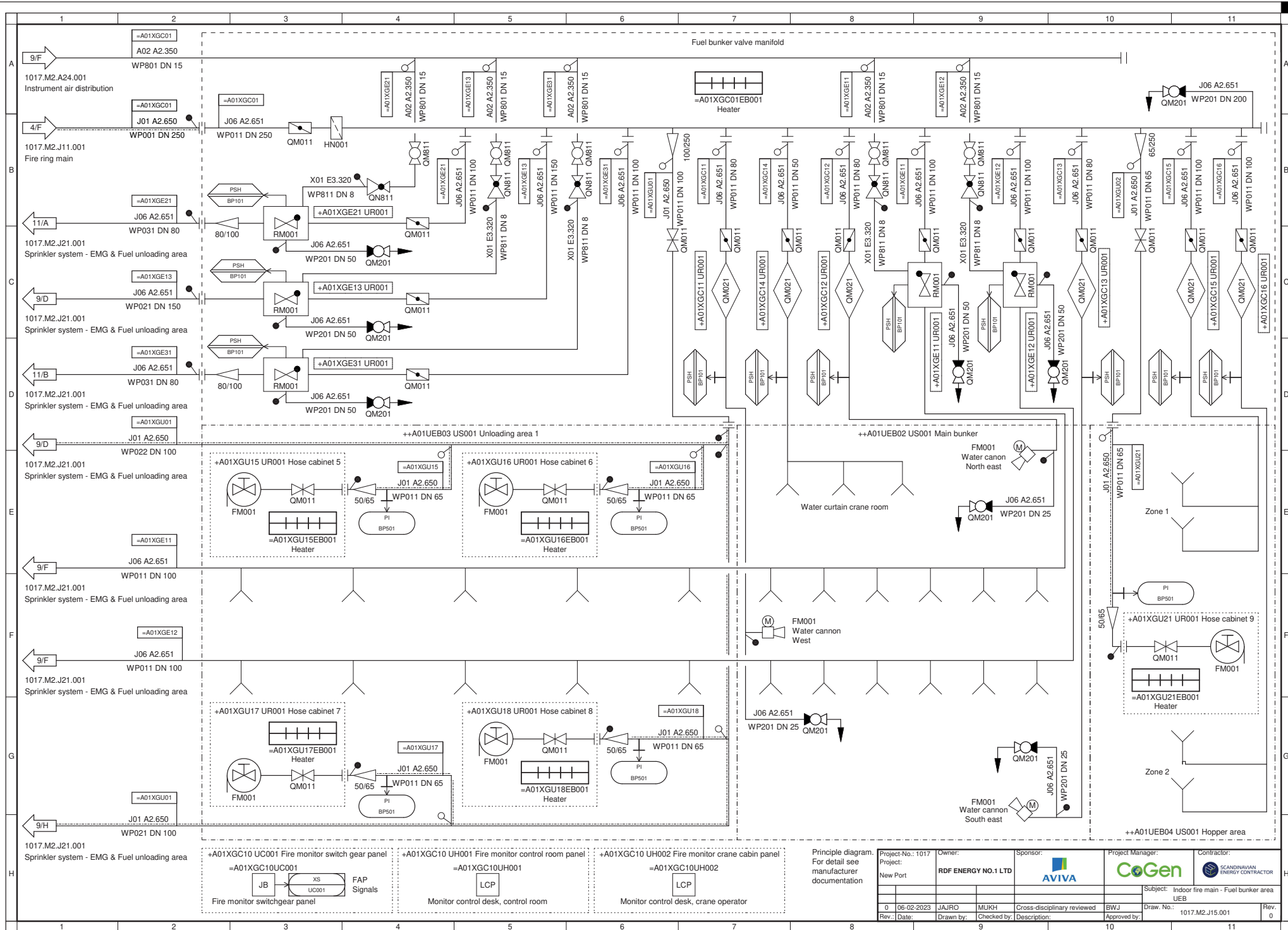


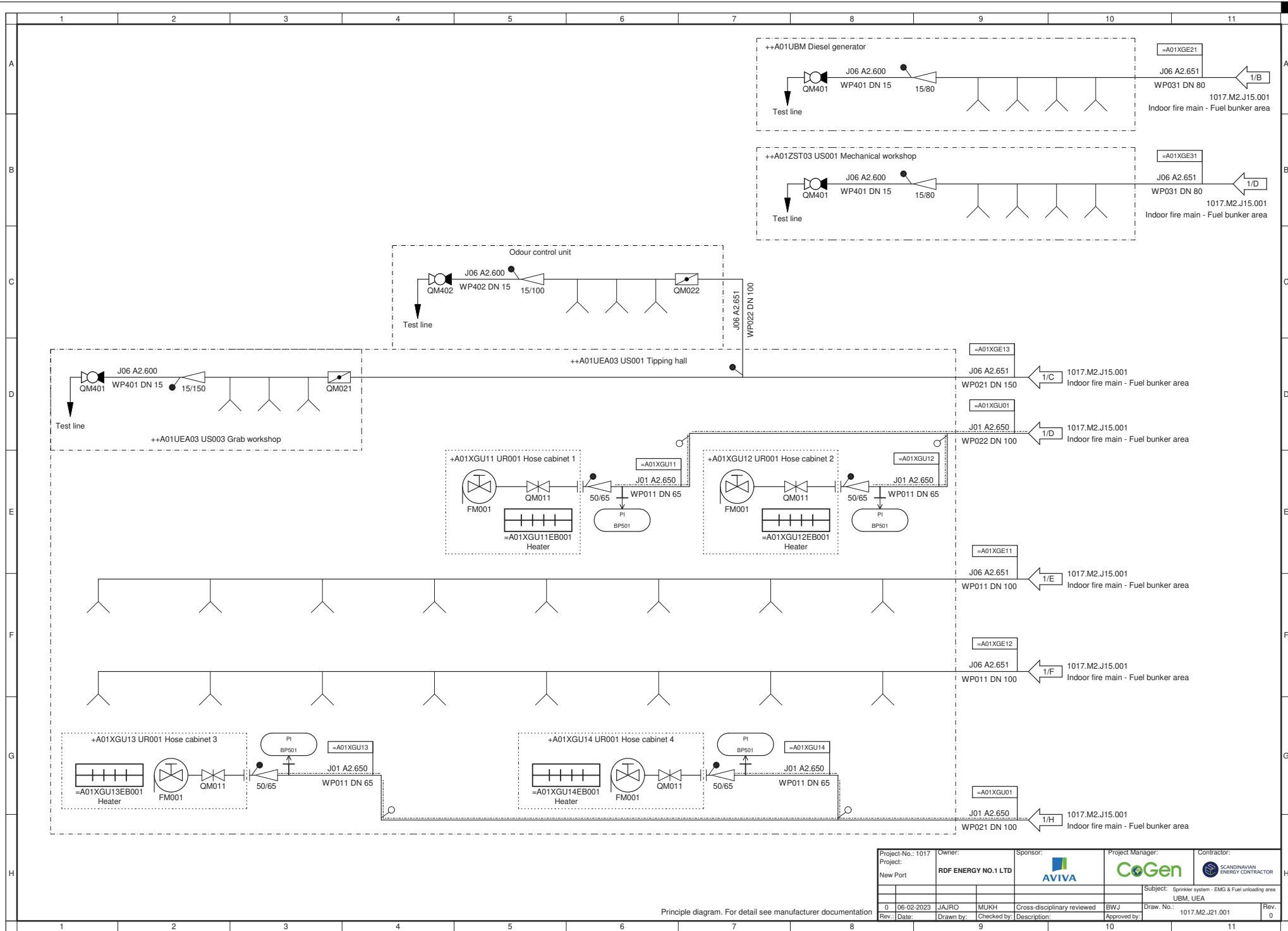


Project-No.: 1017	Owner:	Sponsor:	Project Manager:	Contractor:
Project:	RDF ENERGY NO.1 LTD	AVIVA	CoGen	SCANDINAVIAN ENERGY CONTRACTOR
New Port				
0	06-02-2023	JAJRO	MUKH	Cross-disciplinary reviewed
Rev.	Date	Drawn by:	Checked by:	Description:
			BMJ	Approved by:
				Draw. No.: 1017.M2.J11.001
				Rev. 0

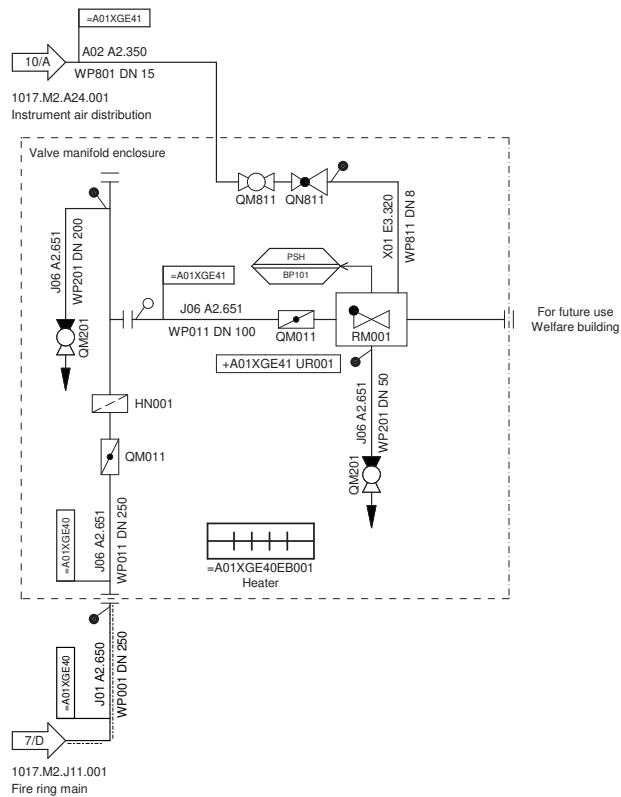




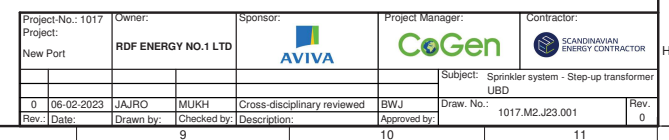


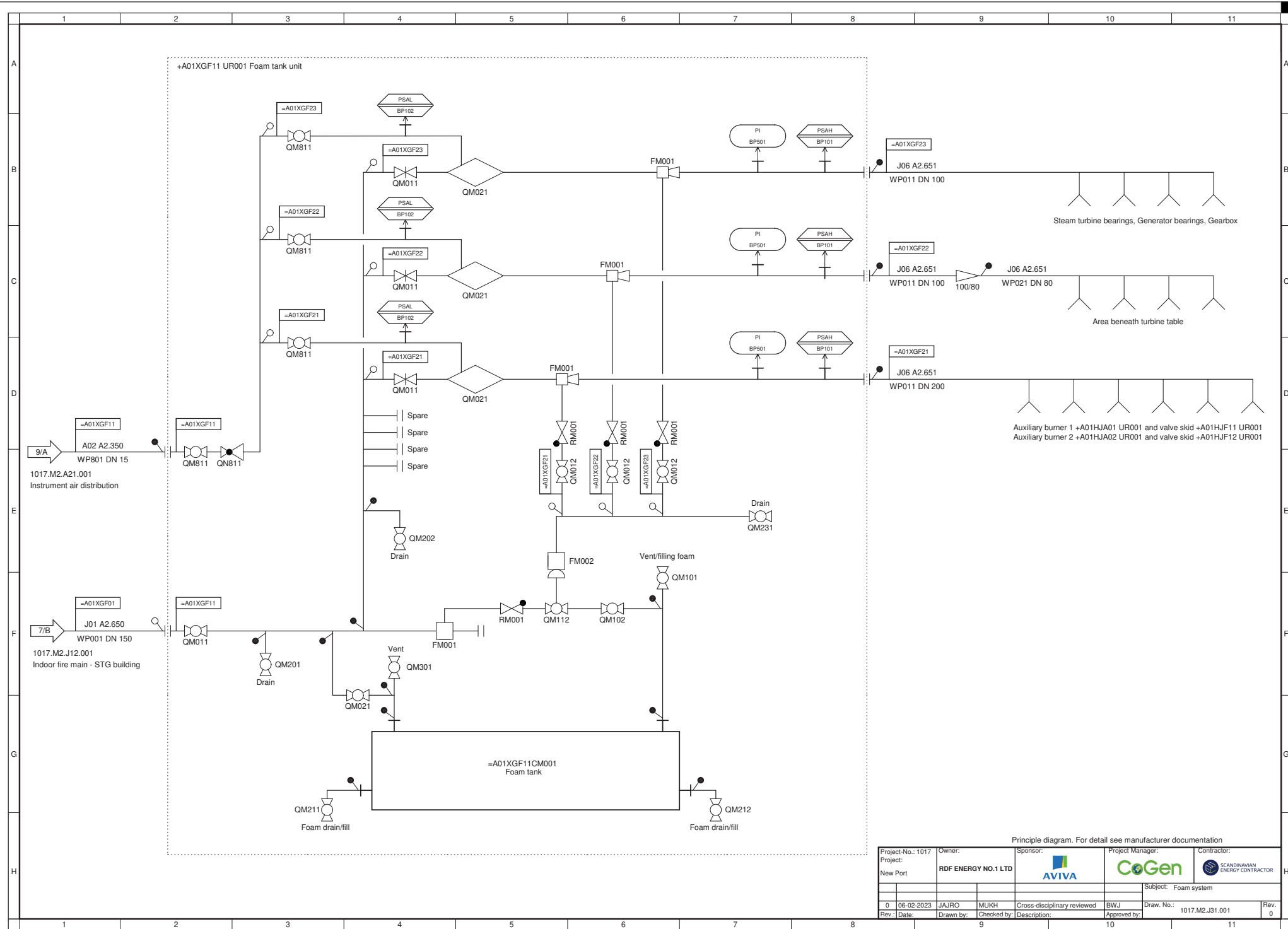


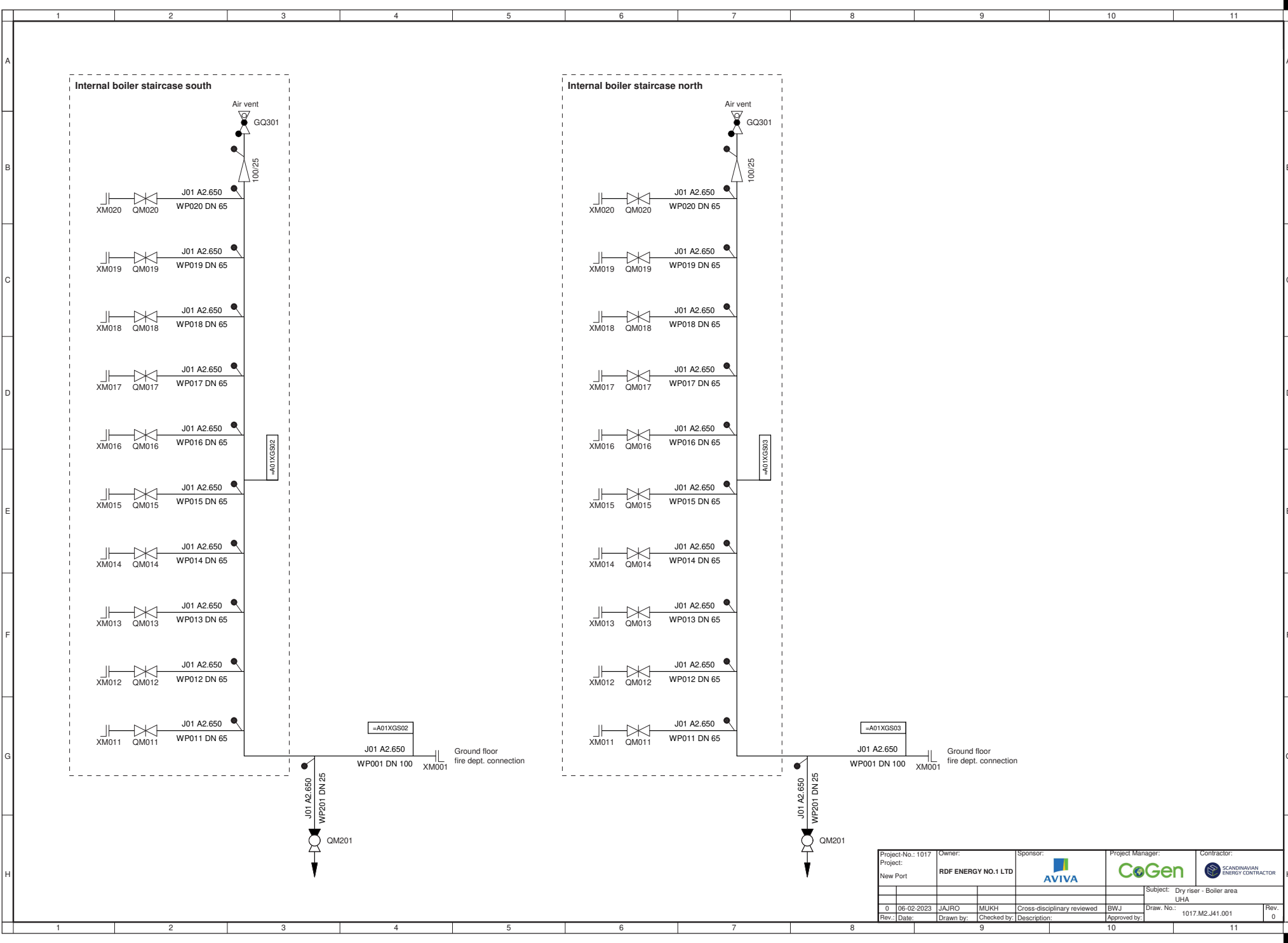
Principle diagram. For detail see manufacturer documentation



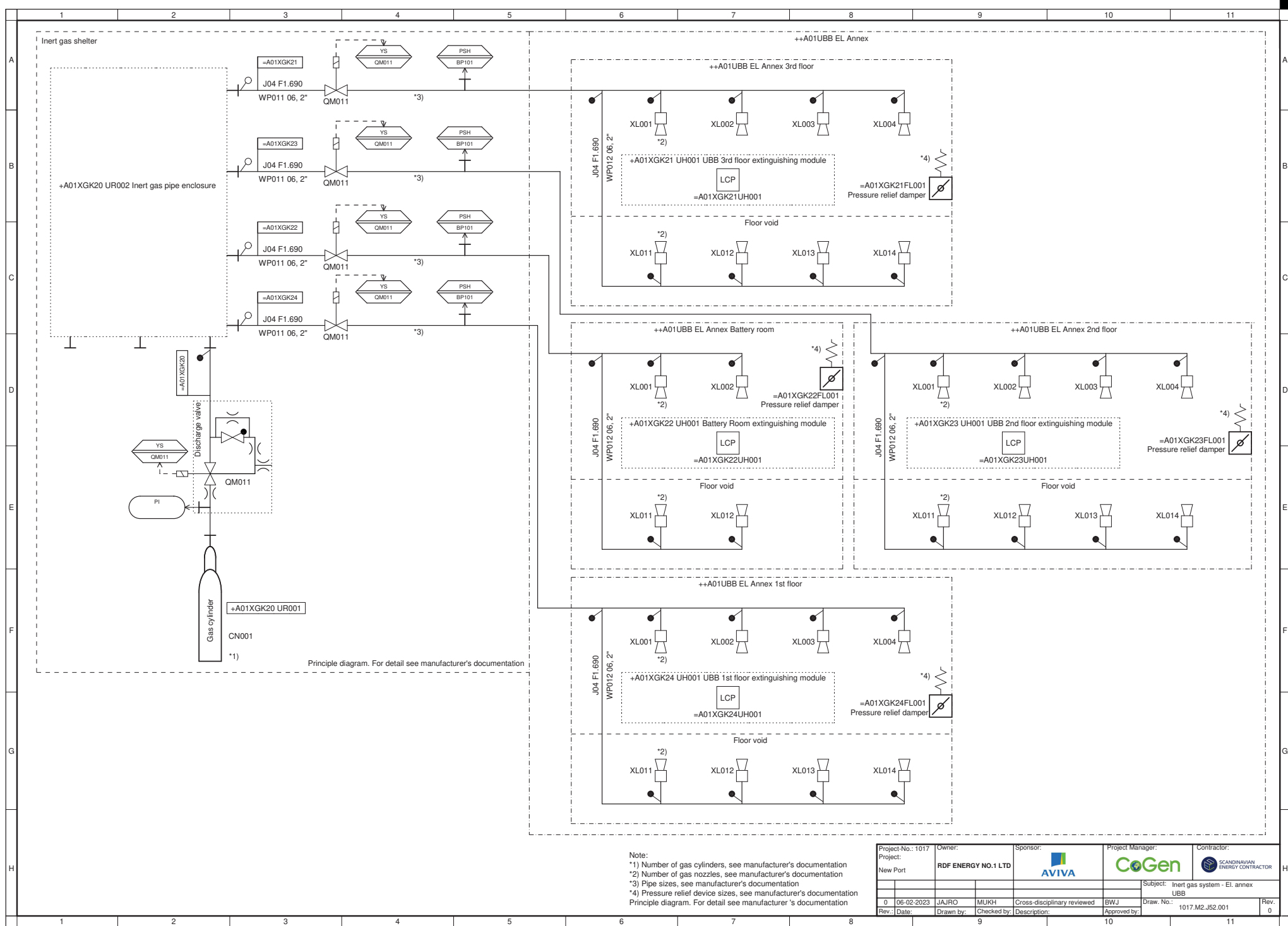
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Project: New Port	RDF ENERGY NO.1 LTD	AVIVA	CoGen	SCANDINAVIAN ENERGY CONTRACTOR
			Subject: Sprinkler system - Welfare bldg. ground flr.	
			ZWA	
0 06-02-2023	JAJRO	MUKH	Cross-disciplinary reviewed	BWJ
Rev.: Date:	Drawn by:	Checked by:	Description:	Approved by:
			Draw. No.: 1017.M2.J22.001	Rev. 0



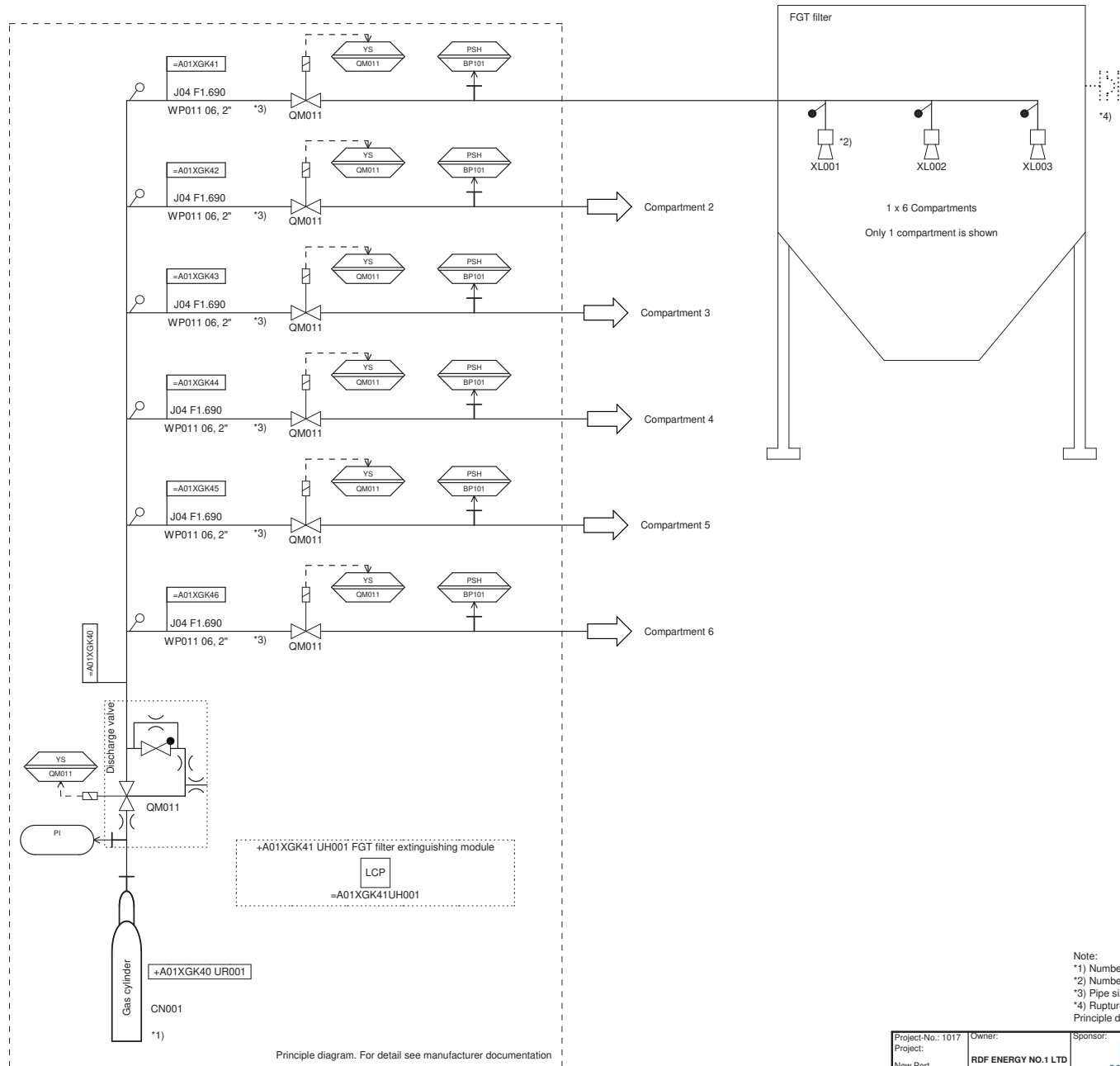




Project No.: 1017	Owner:	Sponsor:	Project Manager:	Contractor:
Project:	RDF ENERGY NO.1 LTD	AVIVA	CoGen	SCANDINAVIAN ENERGY CONTRACTOR
New Port				
				Subject: Dry riser - Boiler area
				UHA
0	06-02-2023	JAJRO	MUKH	Cross-disciplinary reviewed
Rev:	Date:	Drawn by:	Checked by:	Description:
			BWJ	Approved by:
				Draw. No.: 1017.M2.J41.001
				Rev. 0

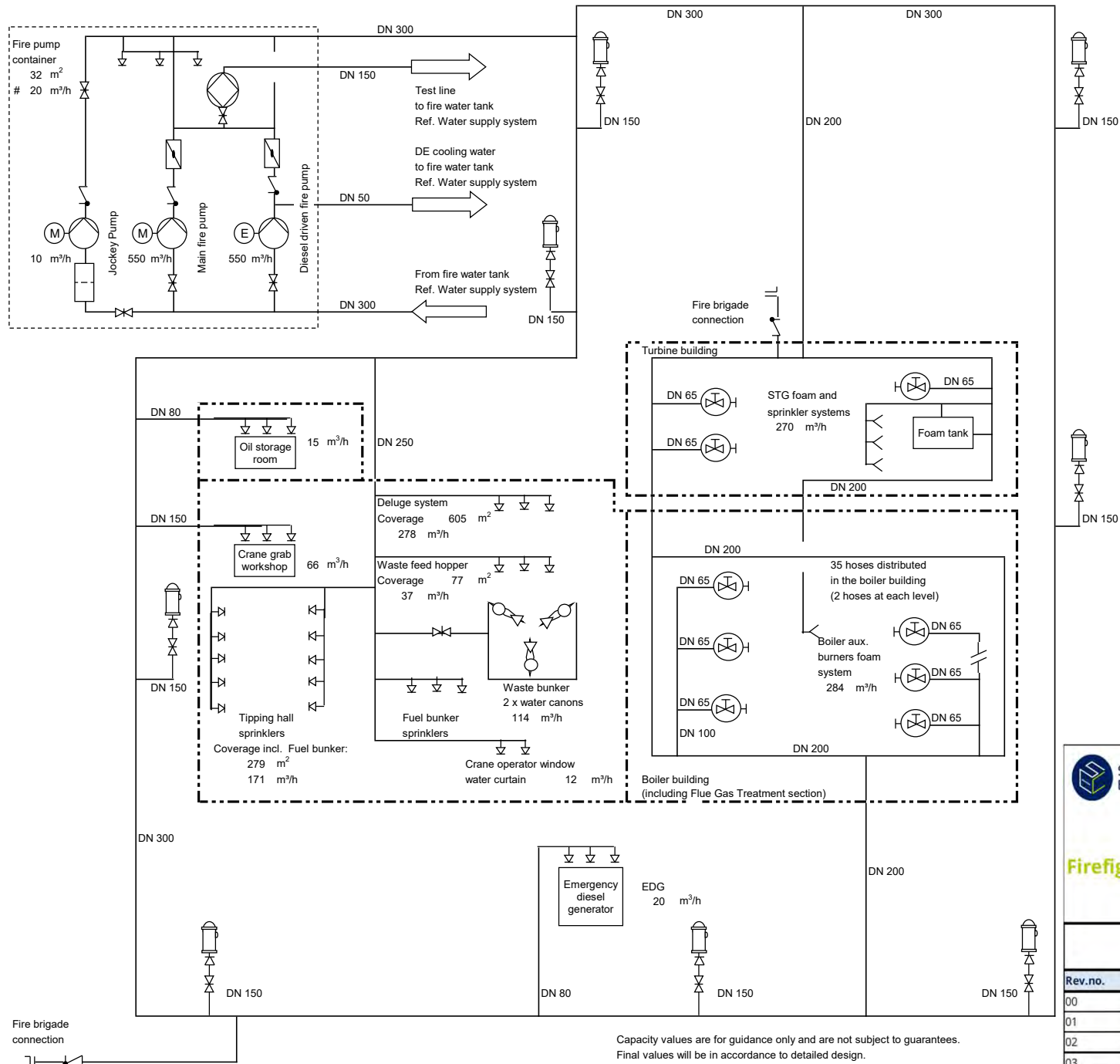


Project-No.: 1017		Owner:	Sponsor:		Project Manager:		Contractor:
Project:		RDF ENERGY NO.1 LTD		AVIVA		CoGen	
New Port						SCANDINAVIAN ENERGY CONTRACTOR	
0	06-02-2023	JAJRO	MUKH	Cross-disciplinary reviewed		BWJ	Subject: Inert gas system - EL annex
Rev.	Date	Drawn by:	Checked by:	Description:		Approved by:	UBB
							Draw. No.: 1017.M2.J52.001
							Rev. 0



Note:
 *1) Number of gas cylinders, see manufacturer's documentation
 *2) Number of gas nozzles, see manufacturer's documentation
 *3) Pipe sizes, see manufacturer's documentation
 *4) Rupture disc to be followed
 Principle diagram. For detail see manufacturer's documentation

Project No.: 1017	Owner:	Sponsor:	Project Manager:	Contractor:
Project: New Port	RDF ENERGY NO.1 LTD	AVIVA	CoGen	SCANDINAVIAN ENERGY CONTRACTOR
Rev.: 0	Date: 06-02-2023	Drawn by: JAJRO	Checked by: MUKH	Cross-disciplinary reviewed: BWJ
				Draw. No.: 1017.M2.J54.001
				Rev.: 0



Fire Design basis:

Largest simultaneously operated fixed extinguisher system at power plant:

Deluge system, only one zone (75% of the area)	278 m ³ /h
Waste feed hopper sprinklers	37 m ³ /h

Fire water pump:

Fire hose stream + largest fixed extinguisher system (acc. NFPA 850)	
Fire hose capacity (acc. NFPA 850):	113.4 m ³ /h
Largest fixed extinguisher system (+30% gradient):	410 m ³ /h
Fire pump min. capacity:	523 m ³ /h

Fire and service water tank:

Required fire water tank capacity (acc. NFPA):	1100 m ³
Service water storage capacity (option):	0 m ³
Additional service water storage capacity (option):	0 m ³

Total fire and service water tank capacity: 1100 m³

Fire water storage and pump will serve both suppression systems (e.g. sprinklers) and hydrants

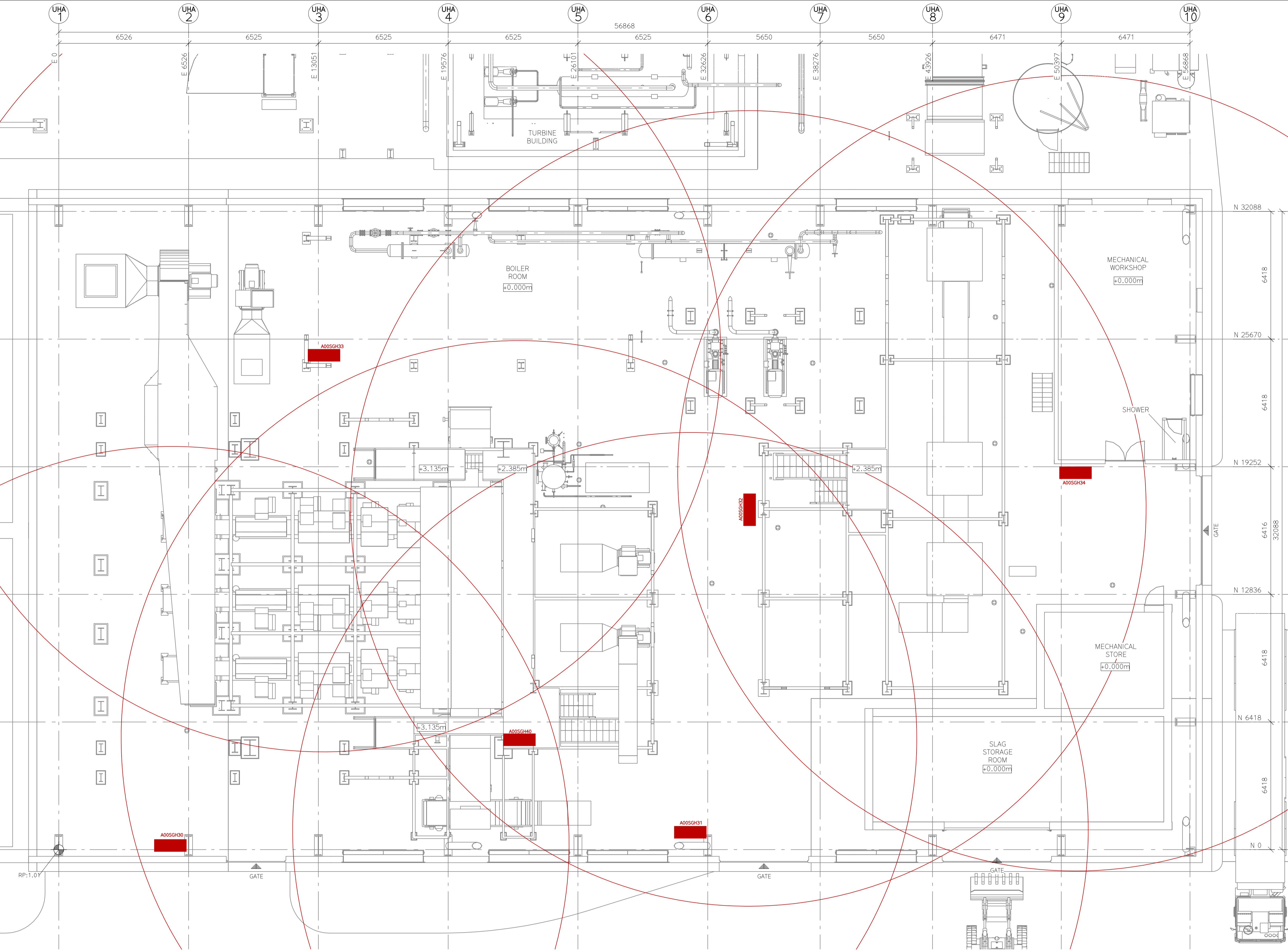
PE pipe below ground. Steel pipe above ground.



Firefighting system capacity diagram

Newport			Proj.no.	Document no.	
			1017	S2J01.001	
Rev.no.	Date	Purpose	Issuer	Reviewer	Approver
00	2022.05.31	First version	RBBD	ALGU	-
01	2022.11.10	Revised data	ALGU	-	-
02	2022.12.19	Revised layout & data	ALGU	-	-
03	2023.01.31	Included deluge system	ALGU	SIBB	-

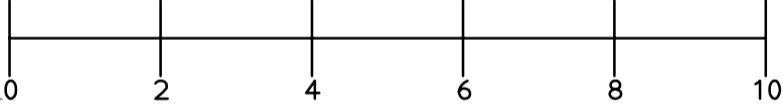
Capacity values are for guidance only and are not subject to guarantees.
Final values will be in accordance to detailed design.



MECHANICAL EQUIPMENT			WEIGHT
SGH30	HOSE CABINET		30 kg
SGH31	HOSE CABINET		30 kg
SGH32	HOSE CABINET		30 kg
SGH33	HOSE CABINET		30 kg
SGH34	HOSE CABINET		30 kg
SGH40	HOSE CABINET		30 kg

LEGEND:
FIRE HOSE

GENERAL NOTES:
NO.: 1. ALL MEASUREMENT IN mm
NO.: 2. ALL LEVELS ARE RELATIVE IN METRE
METRE



ESTIMATE

REV	DATE	DRAWN BY	CHECKED BY	DESCRIPTION	APPROVED BY
0	2022.11.18	MARVA			

OWNER:

SPONSOR:

PROJECT MANAGER:

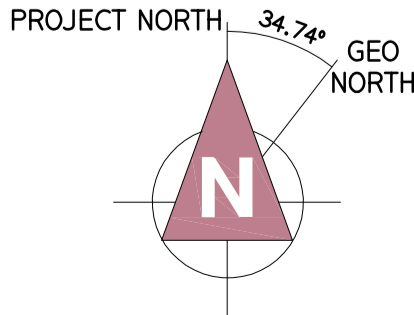
CONTRACTOR:

PROJECT: NEWPORT ENERGY FROM WASTE PLANT

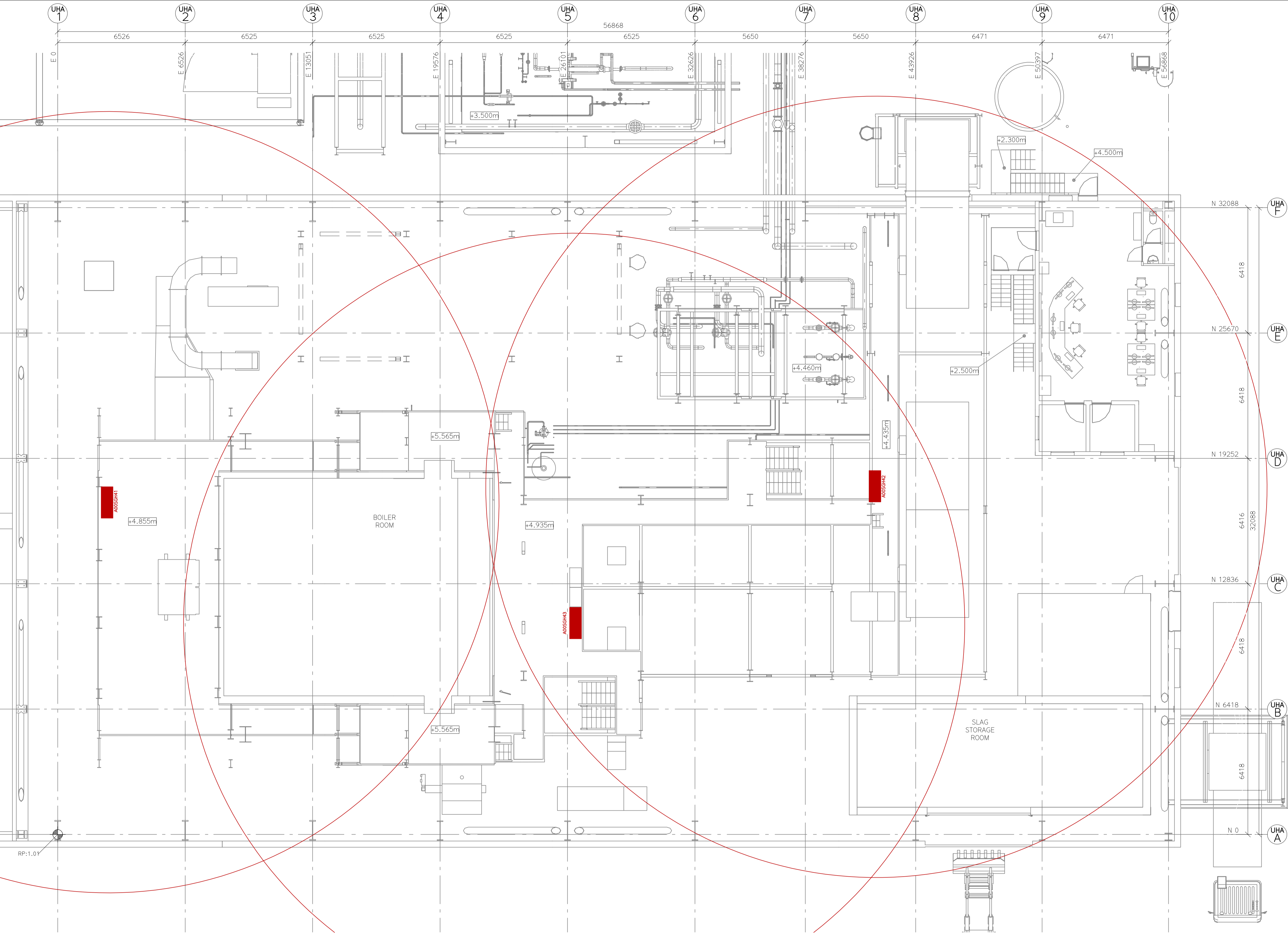
SUB-CONTRACTOR:

SUBJECT: BOILER BUILDING (UHA)
FIREHOSE
GROUND FLOOR PLAN: LEVEL +0.000m

SCALE: A1=1:100 A3=1:200	SEC DWG.NO.: 1017:M4-J09-101 PROJECT NO. GR. NO. SHT.	REV. 0
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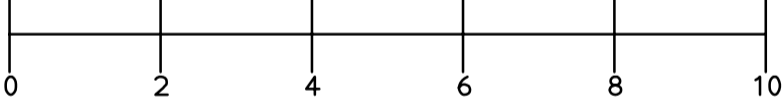
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MECHANICAL EQUIPMENT			WEIGHT
SGH41	HOSE CABINET		30 kg
SGH42	HOSE CABINET		30 kg
SGH43	HOSE CABINET		30 kg

LEGEND:
FIRE HOSE

GENERAL NOTES:
NO.: 1. ALL MEASUREMENT IN mm
NO.: 2. ALL LEVELS ARE RELATIVE IN METRE



ESTIMATE

REV	DATE	DRAWN BY	CHECKED BY	DESCRIPTION	APPROVED BY
0	2022.11.18	MARVA			

OWNER:

SPONSOR:

PROJECT MANAGER:

CONTRACTOR:

PROJECT:

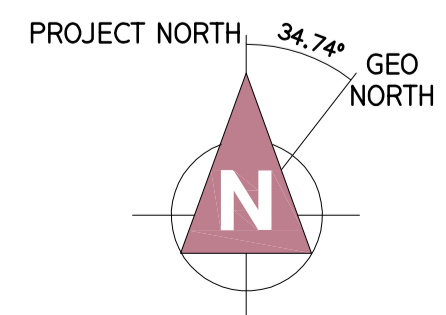
SUB-CONTRACTOR:

SUBJECT:

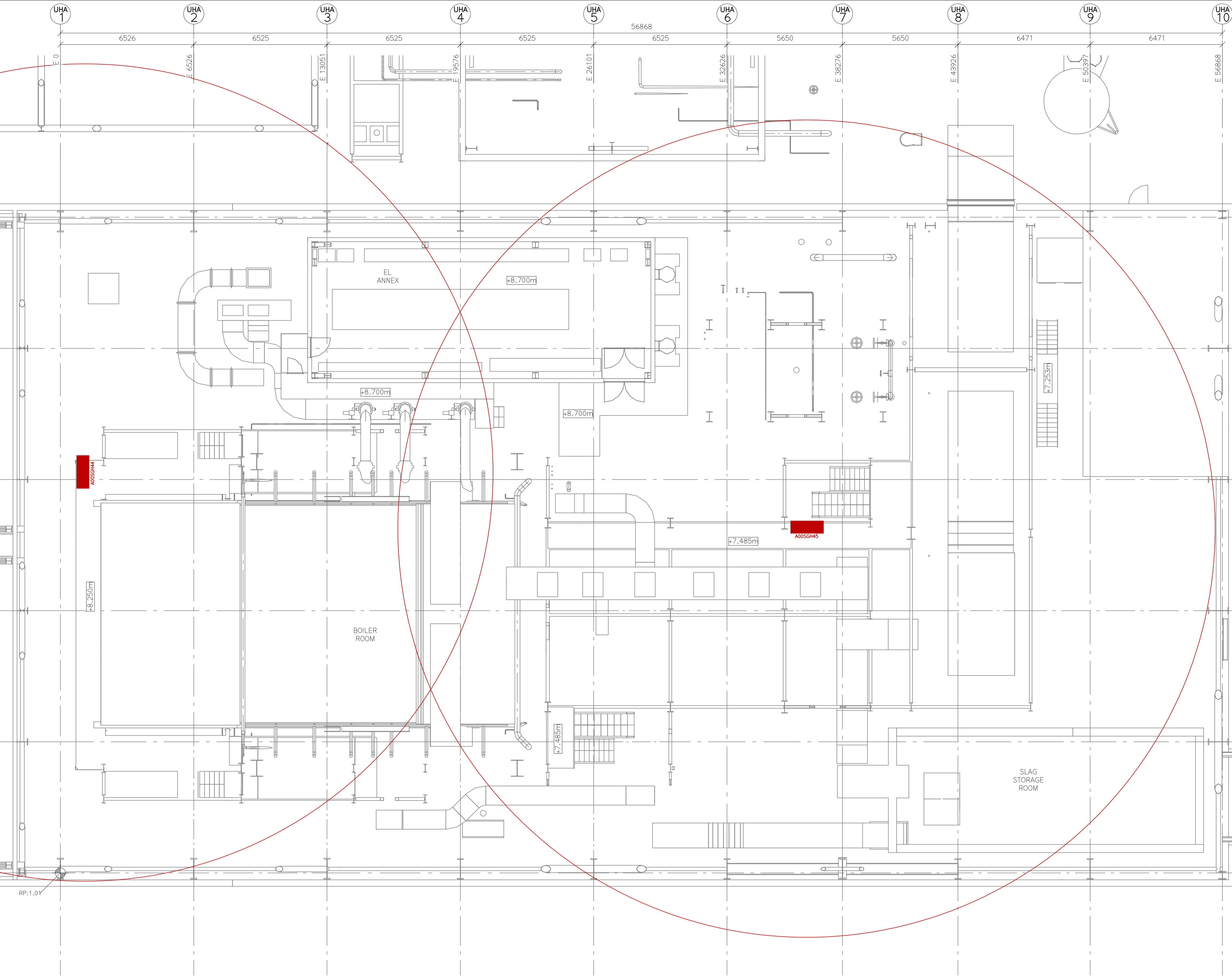
BOILER BUILDING (UHA)
FIREHOSE
PLAN VIEW: LEVEL +4.880m

SCALE: A1=1:100 A3=1:200

SEC DWG.NO.: 1017 :M4 J09 .102



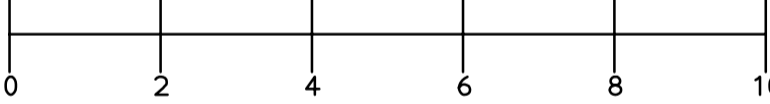
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MECHANICAL EQUIPMENT		WEIGHT
SGH44	HOSE CABINET	30 kg
SGH45	HOSE CABINET	30 kg

LEGEND:
FIRE HOSE

GENERAL NOTES:
NO.: 1. ALL MEASUREMENT IN mm
NO.: 2. ALL LEVELS ARE RELATIVE IN METRE



ESTIMATE

REV	DATE	DRAWN BY	CHECKED BY	DESCRIPTION	APPROVED BY
0	2022.11.18	MARVA			

OWNER:

SPONSOR:

PROJECT MANAGER:

CONTRACTOR:

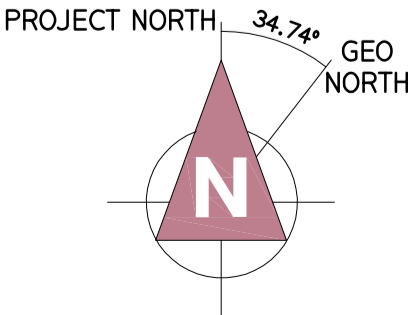
PROJECT: NEWPORT ENERGY FROM WASTE PLANT

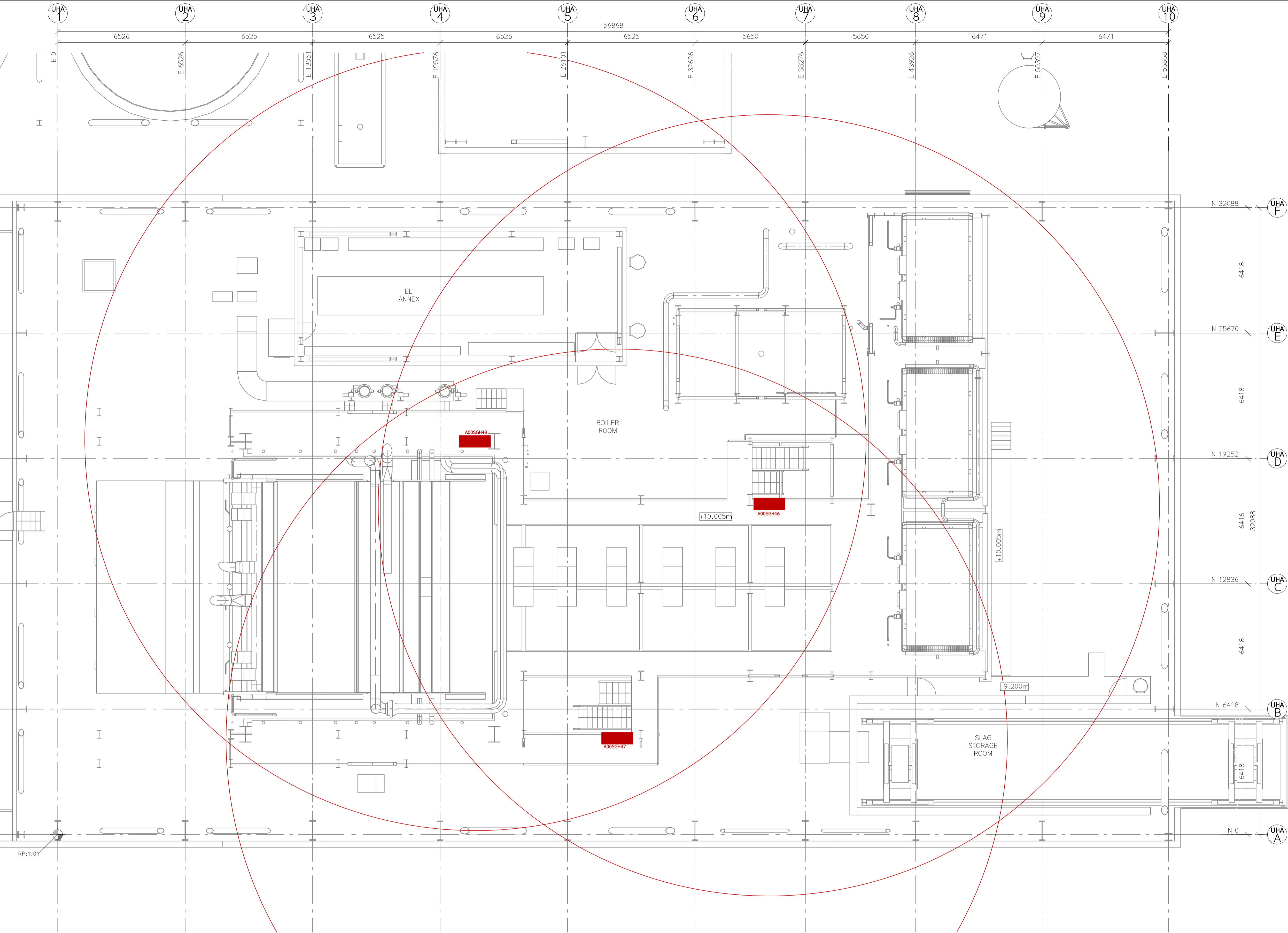
SUB-CONTRACTOR:

SUBJECT: BOILER BUILDING (UHA)
FIREHOSE
PLAN VIEW: LEVEL +7.510m

SCALE: A1=1:100 A3=1:200	SEC DWG.NO.: 1017:M4-J09-103 PROJECT NO. GR. NO. SHT. REV.
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MECHANICAL EQUIPMENT			WEIGHT
SGH46	HOSE CABINET		30 kg
SGH47	HOSE CABINET		30 kg
SGH48	HOSE CABINET		30 kg

LEGEND:
[Red Rectangle] FIRE HOSE

GENERAL NOTES:
NO.: 1. ALL MEASUREMENT IN mm
NO.: 2. ALL LEVELS ARE RELATIVE IN METRE
METRE
0 2 4 6 8 10

ESTIMATE

REV	DATE	DRAWN BY	CHECKED BY	DESCRIPTION	APPROVED BY
0	2022.11.18	MARVA			

OWNER:

SPONSOR:

PROJECT MANAGER:

CONTRACTOR:

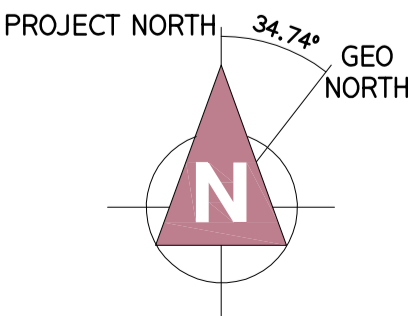
PROJECT: **NEWPORT ENERGY FROM WASTE PLANT**

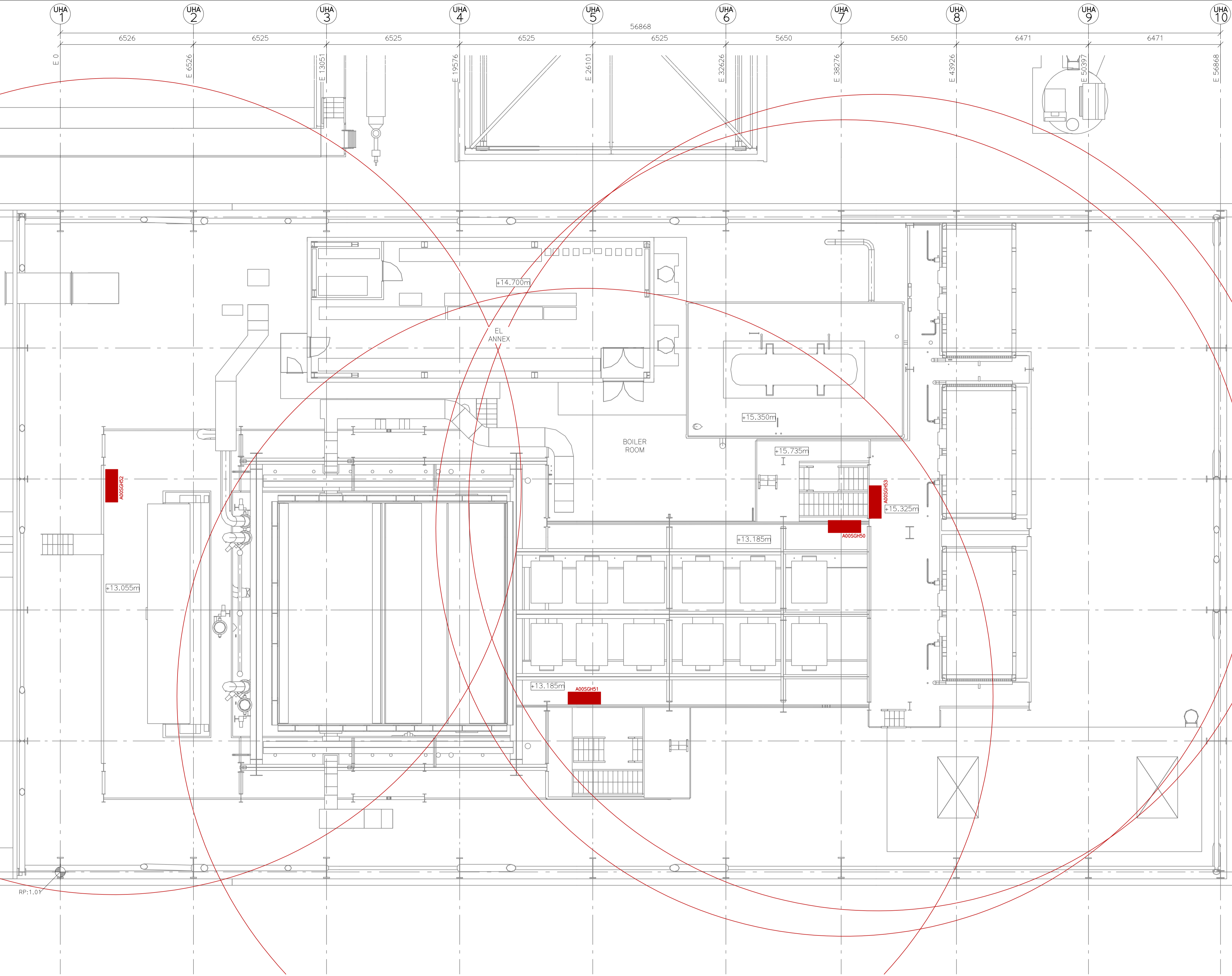
SUB-CONTRACTOR:

SUBJECT: **BOILER BUILDING (UHA)
FIREHOSE
PLAN VIEW: LEVEL +10.030m**

SCALE: A1=1:100 A3=1:200	SEC DWG.NO.: 1017:M4-J09-104 PROJECT NO. GR. NO. SHT. REV.
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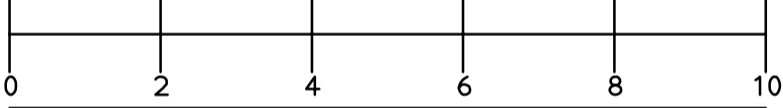




MECHANICAL EQUIPMENT			WEIGHT
SGH50	HOSE CABINET		30 kg
SGH51	HOSE CABINET		30 kg
SGH52	HOSE CABINET		30 kg
SGH53	HOSE CABINET		30 kg

LEGEND:
FIRE HOSE

GENERAL NOTES:
NO.: 1. ALL MEASUREMENT IN mm
NO.: 2. ALL LEVELS ARE RELATIVE IN METRE



ESTIMATE

REV	DATE	DRAWN BY	CHECKED BY	DESCRIPTION	APPROVED BY
0	2022.11.18	MARVA			

OWNER:

SPONSOR:

PROJECT MANAGER:

CONTRACTOR:

PROJECT:

NEWPORT ENERGY
FROM WASTE PLANT

SUB-CONTRACTOR:

SUBJECT:

BOILER BUILDING (UHA)

FIREHOSE

PLAN VIEW: LEVEL +13.210m

SCALE:

A1=1:100

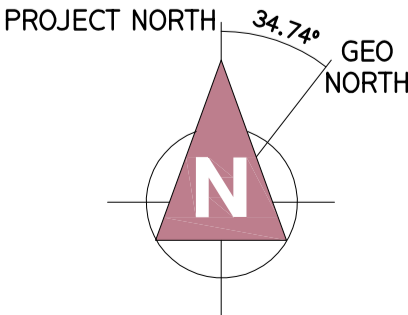
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SEC DWG.NO.:

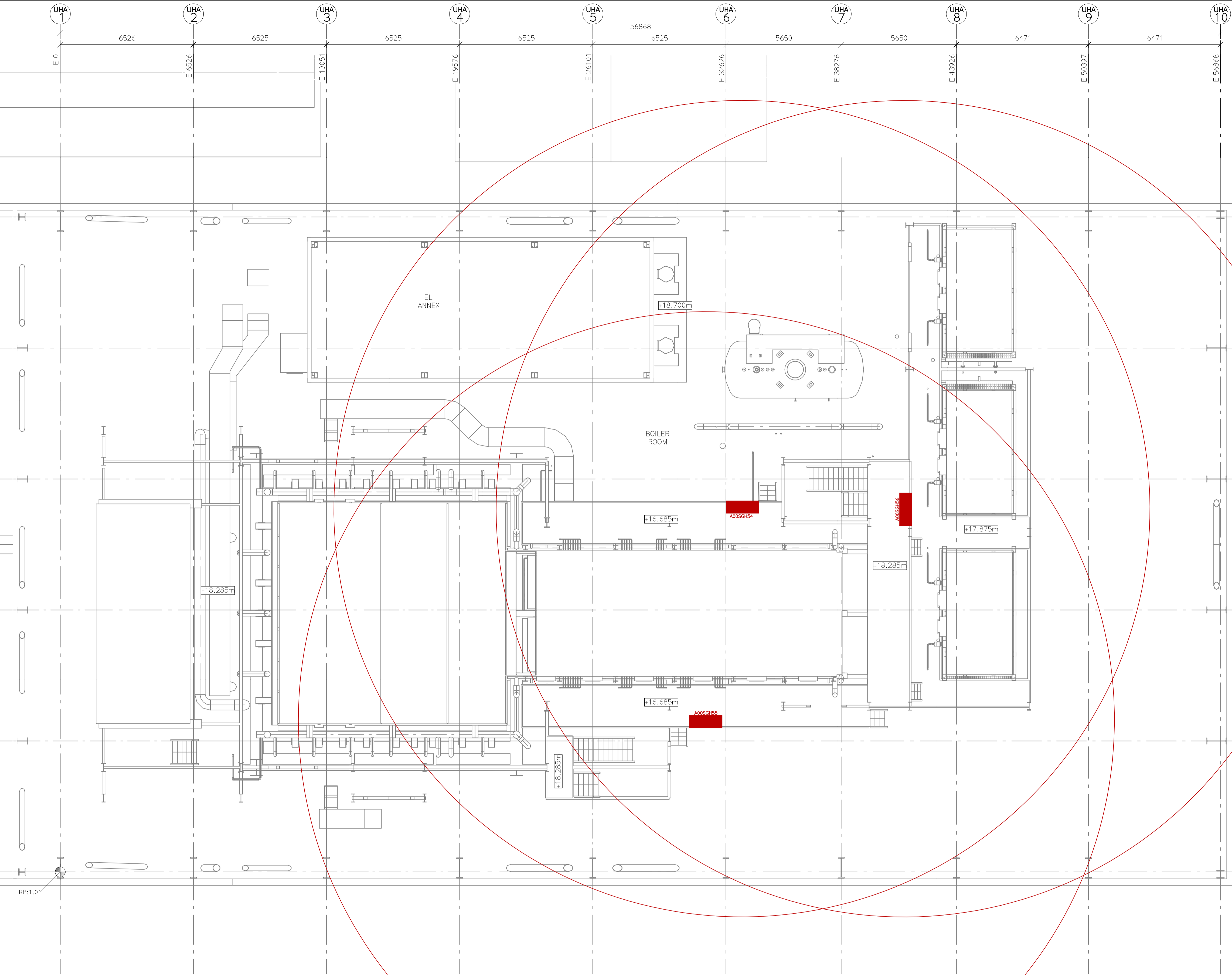
1017 :M4 :J09 :105

PROJECT NO. GR. NO. SHEET

REV.



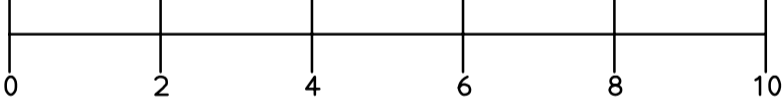
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MECHANICAL EQUIPMENT			WEIGHT
SGH54	HOSE CABINET		30 kg
SGH55	HOSE CABINET		30 kg
SGH56	HOSE CABINET		30 kg

LEGEND:
FIRE HOSE

GENERAL NOTES:
NO.: 1. ALL MEASUREMENT IN mm
NO.: 2. ALL LEVELS ARE RELATIVE IN METRE



ESTIMATE

REV	DATE	DRAWN BY	CHECKED BY	DESCRIPTION	APPROVED BY
0	2022.11.18	MARVA			

OWNER:

SPONSOR:

PROJECT MANAGER:

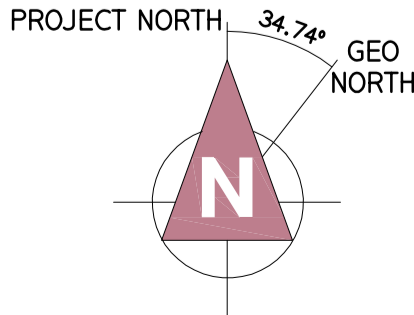
CONTRACTOR:

PROJECT: NEWPORT ENERGY FROM WASTE PLANT

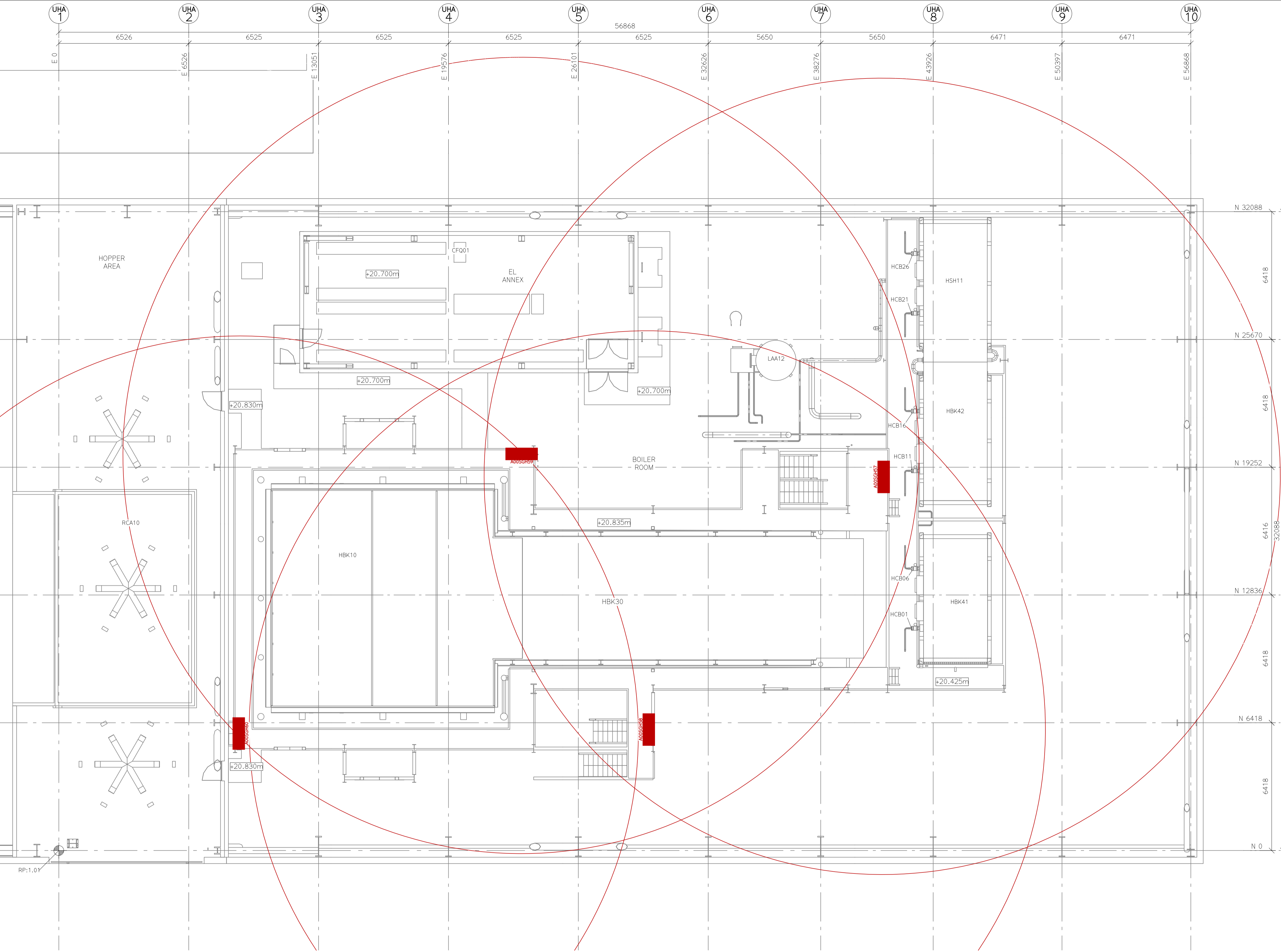
SUB-CONTRACTOR:

SUBJECT: BOILER BUILDING (UHA)
FIREHOSE
PLAN VIEW: LEVEL +18.310m

SCALE: A1=1:100 A3=1:200	SEC DWG.NO.: 1017:M4-J09-106 PROJECT NO. GR. NO. SHT.	REV.
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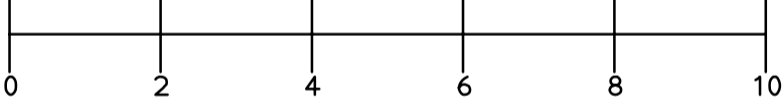
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MECHANICAL EQUIPMENT			WEIGHT
SGH57	HOSE CABINET		30 kg
SGH58	HOSE CABINET		30 kg
SGH59	HOSE CABINET		30 kg
SGH60	HOSE CABINET		30 kg

LEGEND:
FIRE HOSE

GENERAL NOTES:
NO.: 1. ALL MEASUREMENT IN mm
NO.: 2. ALL LEVELS ARE RELATIVE IN METRE



ESTIMATE

0	2022.11.18	MARVA			
REV	DATE	DRAWN BY	CHECKED BY	DESCRIPTION	APPROVED BY
OWNER:					

SPONSOR:

PROJECT MANAGER:

CONTRACTOR:

PROJECT:

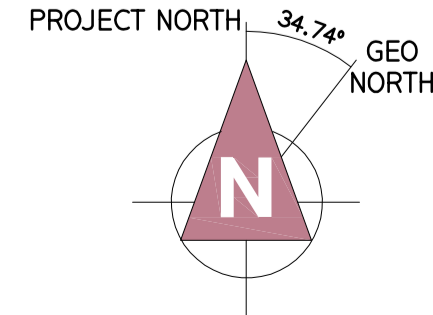
NEWPORT ENERGY FROM WASTE PLANT

SUB-CONTRACTOR:

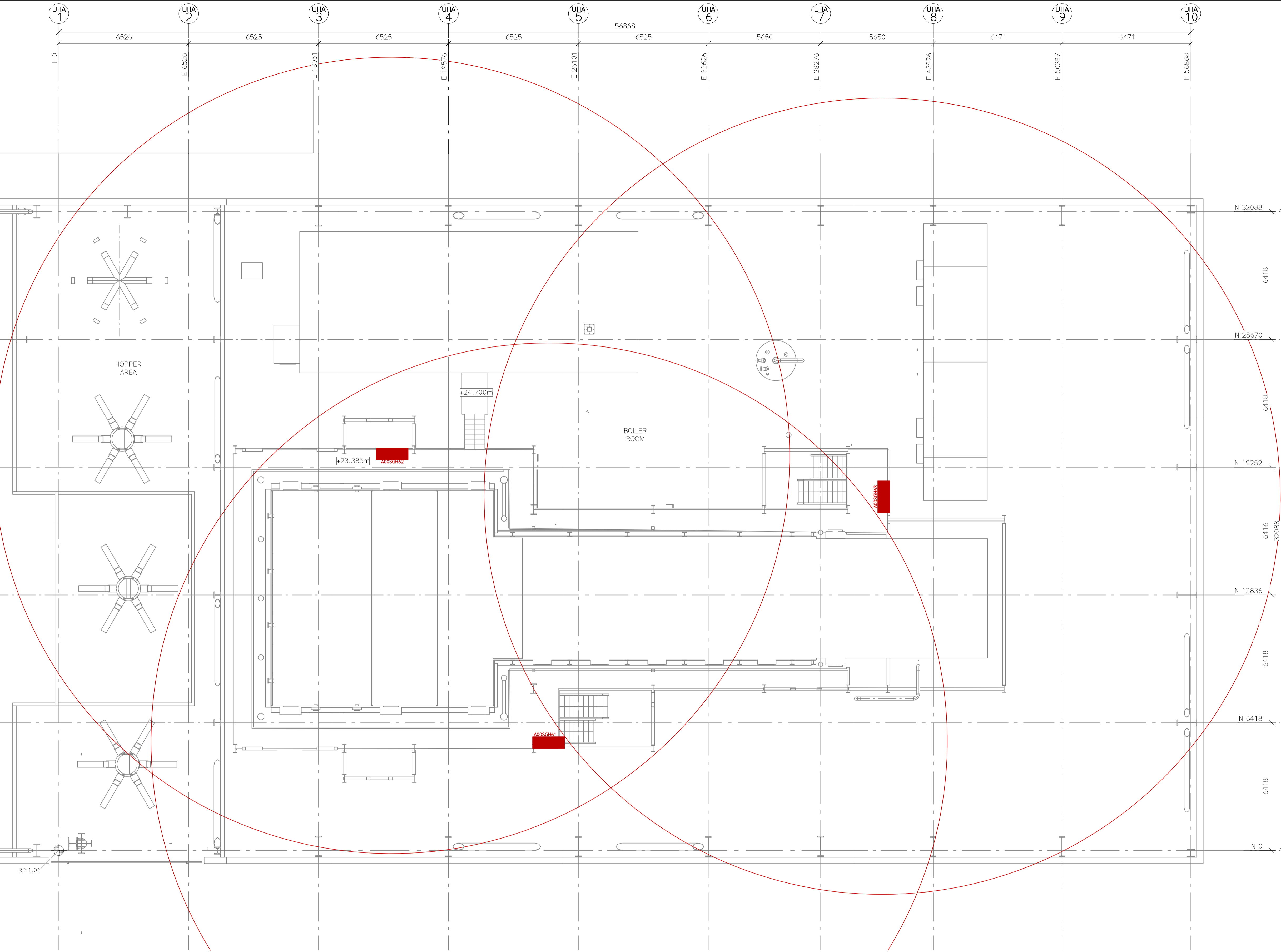
SUBJECT:

BOILER BUILDING (UHA)
FIREHOSE
PLAN VIEW: LEVEL +20.860m

SCALE: A1=1:100 A3=1:200	SEC DWG.NO.: PROJECT NO. GR. NO. SHT. REV.
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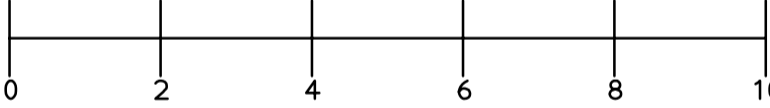
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MECHANICAL EQUIPMENT			WEIGHT
SGH61	HOSE CABINET		30 kg
SGH62	HOSE CABINET		30 kg
SGH63	HOSE CABINET		30 kg

LEGEND:
[Red Line] FIRE HOSE

GENERAL NOTES:
NO.: 1. ALL MEASUREMENT IN mm
NO.: 2. ALL LEVELS ARE RELATIVE IN METRE



ESTIMATE

REV	DATE	DRAWN BY	CHECKED BY	DESCRIPTION	APPROVED BY
-----	------	----------	------------	-------------	-------------

OWNER:

SPONSOR:

PROJECT MANAGER:

CONTRACTOR:

PROJECT:

NEWPORT ENERGY
FROM WASTE PLANT

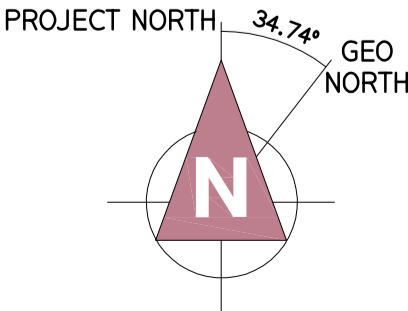
SUB-CONTRACTOR:

SUBJECT:

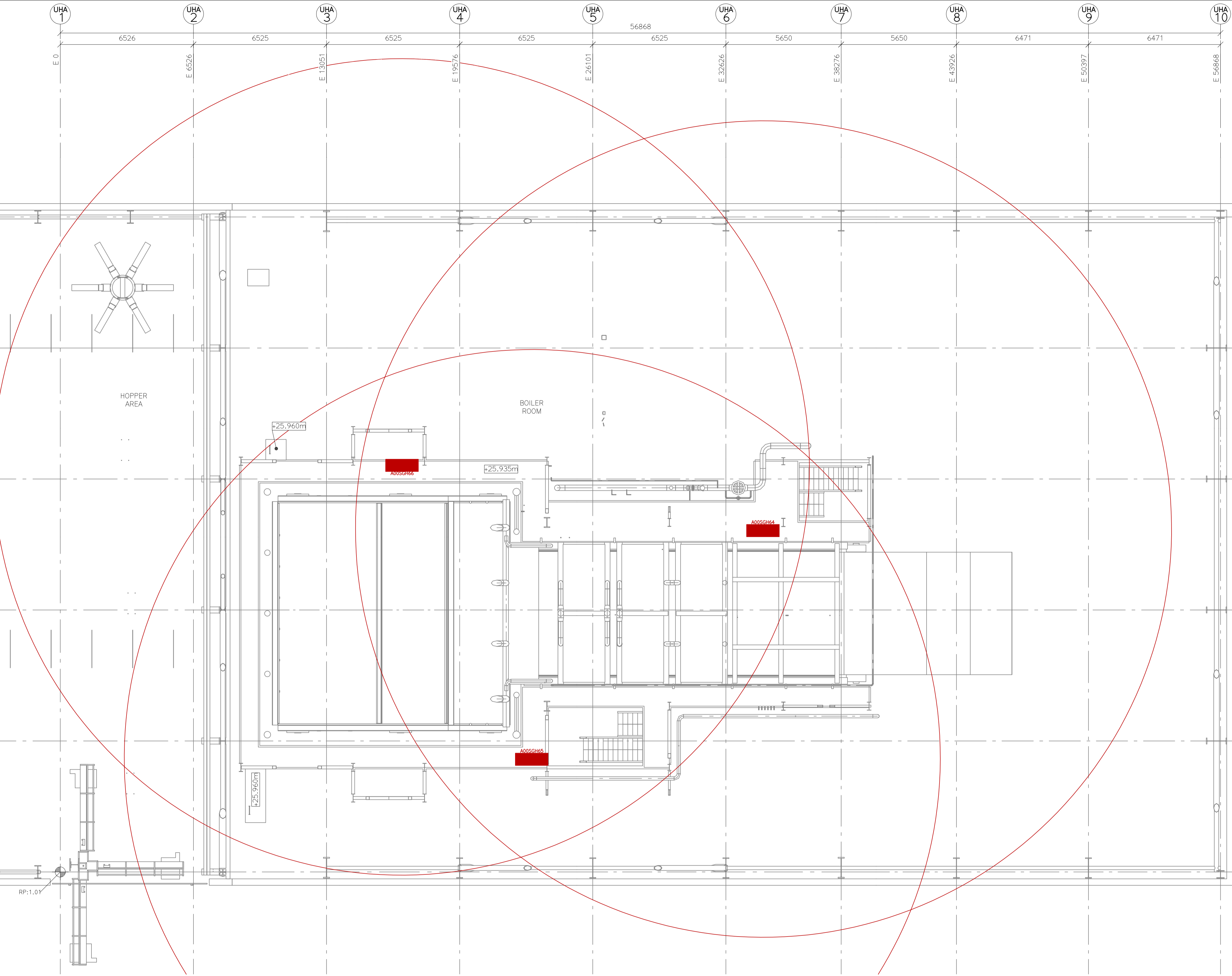
BOILER BUILDING (UHA)
FIREHOSE
PLAN VIEW: LEVEL +23.410m

SCALE:
A1=1:100
A3=1:200

SEC DWG.NO.:
1017:M4-J09-108
PROJECT NO. GR. NO. SHT. REV.



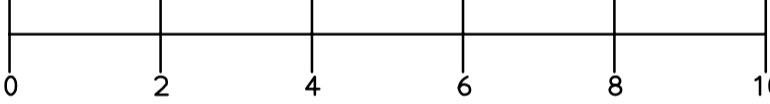
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MECHANICAL EQUIPMENT		WEIGHT
SGH64	HOSE CABINET	30 kg
SGH65	HOSE CABINET	30 kg
SGH66	HOSE CABINET	30 kg

LEGEND:
FIRE HOSE

GENERAL NOTES:
NO.: 1. ALL MEASUREMENT IN mm
NO.: 2. ALL LEVELS ARE RELATIVE IN METRE
METRE



ESTIMATE

0	2022.11.18	MARVA			
REV	DATE	DRAWN BY	CHECKED BY	DESCRIPTION	APPROVED BY
OWNER:					

SPONSOR:

PROJECT MANAGER:

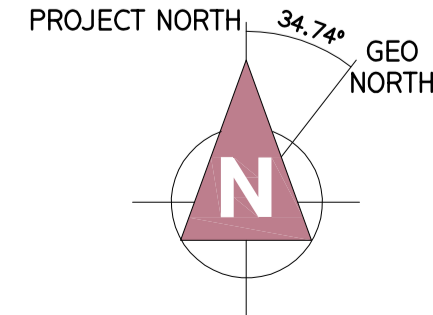
CONTRACTOR:

PROJECT: NEWPORT ENERGY FROM WASTE PLANT

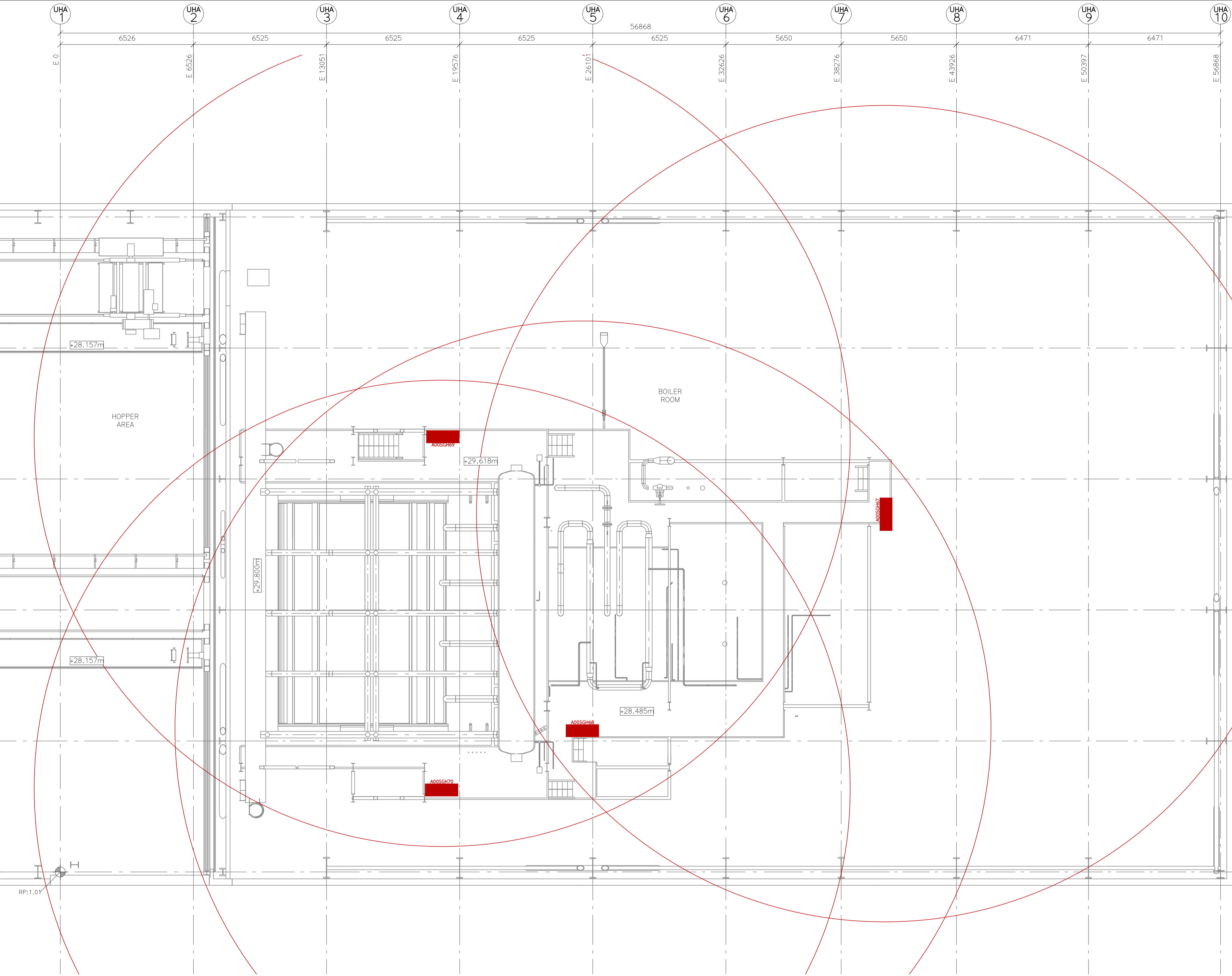
SUB-CONTRACTOR:

SUBJECT: BOILER BUILDING (UHA)
FIREHOSE
PLAN VIEW: LEVEL +25.960m

SCALE: A1=1:100 A3=1:200	SEC DWG.NO.: 1017:M4-J09-109 PROJECT NO. GR. NO. SHT.	REV. 0
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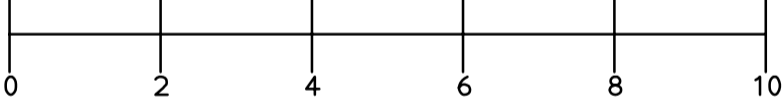
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MECHANICAL EQUIPMENT			WEIGHT
SGH67	HOSE CABINET		30 kg
SGH68	HOSE CABINET		30 kg
SGH69	HOSE CABINET		30 kg
SGH70	HOSE CABINET		30 kg

LEGEND:
FIRE HOSE

GENERAL NOTES:
NO.: 1. ALL MEASUREMENT IN mm
NO.: 2. ALL LEVELS ARE RELATIVE IN METRE
METRE



ESTIMATE

REV	DATE	DRAWN BY	CHECKED BY	DESCRIPTION	APPROVED BY
0	2022.11.18	MARVA			

OWNER:

SPONSOR:

PROJECT MANAGER:

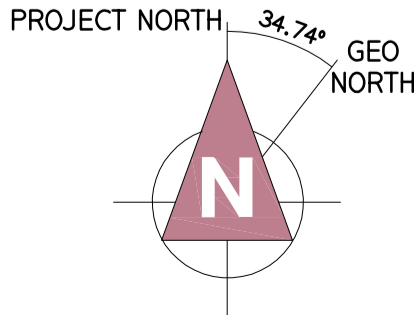
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PROJECT: NEWPORT ENERGY FROM WASTE PLANT

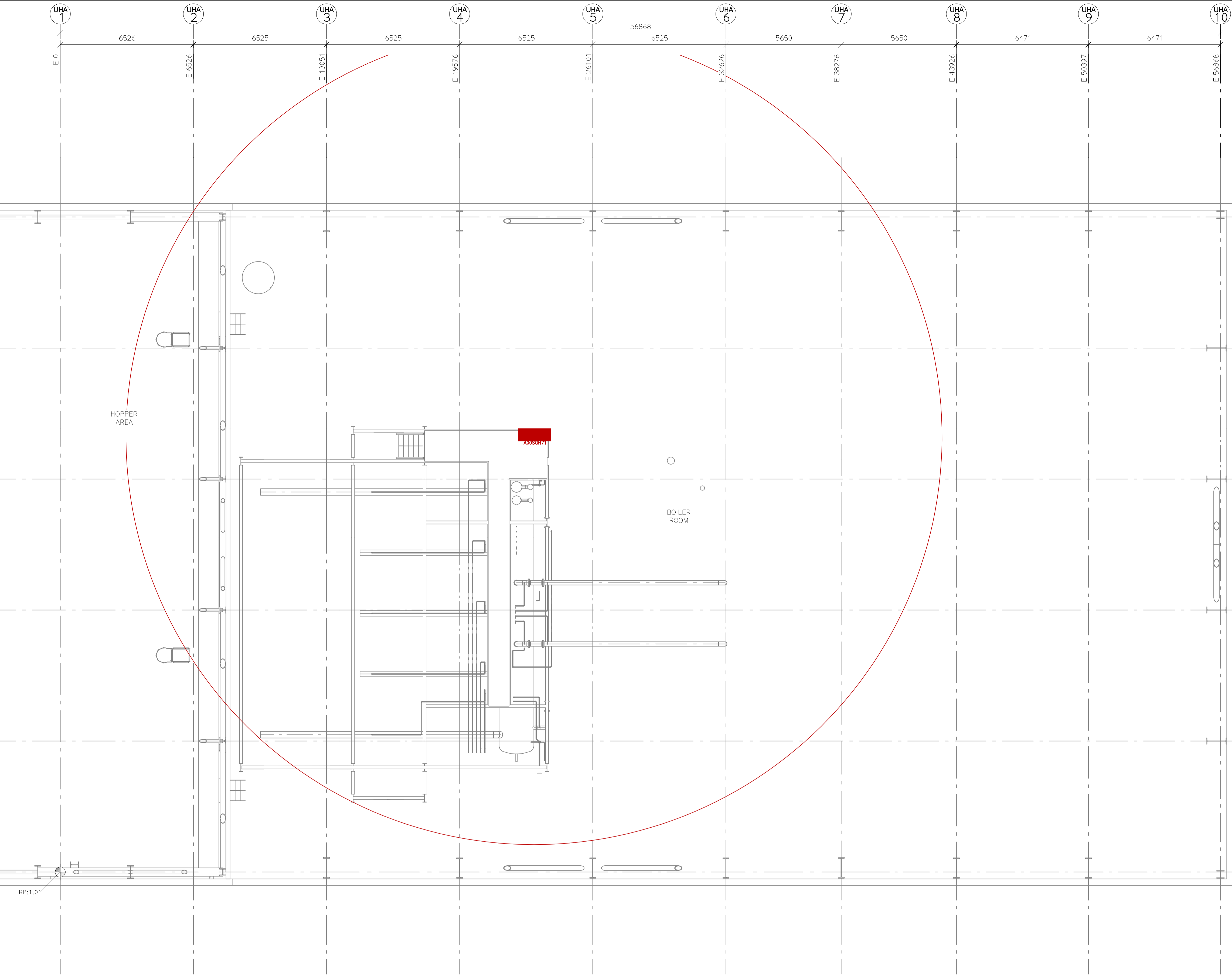
SUB-CONTRACTOR:

SUBJECT: BOILER BUILDING (UHA)
FIREHOSE
PLAN VIEW: LEVEL +28.510m

SCALE: A1=1:100 A3=1:200	SEC DWG.NO.: PROJECT NO. 1017, GR. M4, NO. J09, SHEET 110	REV. 0
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MECHANICAL EQUIPMENT
SGH71 HOSE CABINET 30 kg

LEGEND:
FIRE HOSE

GENERAL NOTES:
NO.: 1. ALL MEASUREMENT IN mm
NO.: 2. ALL LEVELS ARE RELATIVE IN METRE
METRE

ESTIMATE

REV	DATE	DRAWN BY	CHECKED BY	DESCRIPTION	APPROVED BY
0	2022.11.18	MARVA			

OWNER:

SPONSOR:

PROJECT MANAGER:

CONTRACTOR:

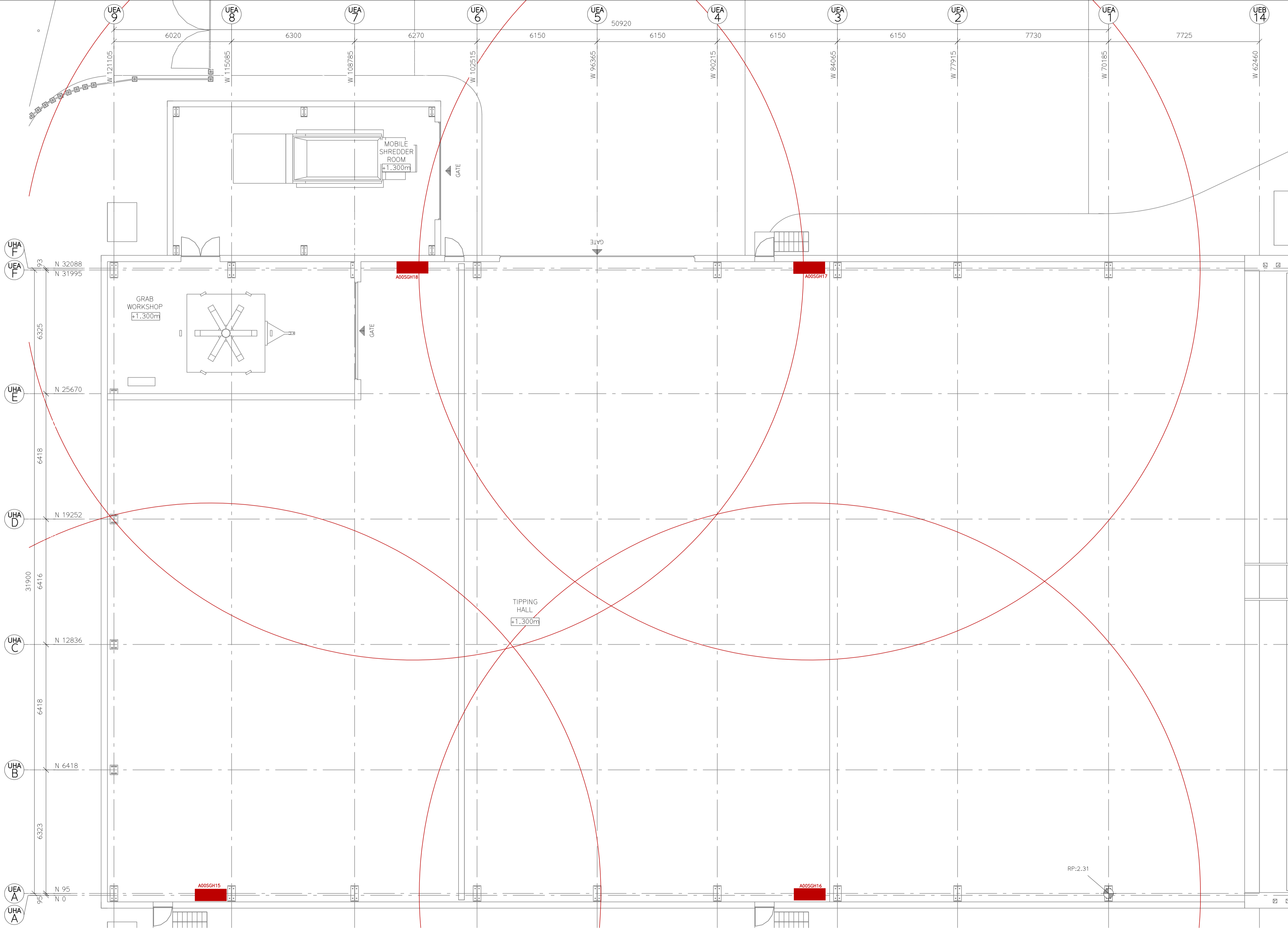
PROJECT: NEWPORT ENERGY FROM WASTE PLANT

SUB-CONTRACTOR:

SUBJECT: BOILER BUILDING (UHA)
FIREHOSE
PLAN VIEW: LEVEL +32.655m

SCALE: A1=1:100 A3=1:200
SEC DWG.NO.: 1017:M4:J09:111
PROJECT NO. GR. NO. SHT. REV.

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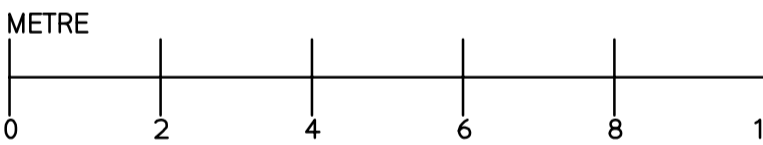
MECHANICAL EQUIPMENT			WEIGHT
SGH15	HOSE CABINET		30 kg
SGH16	HOSE CABINET		30 kg
SGH17	HOSE CABINET		30 kg
SGH18	HOSE CABINET		30 kg

LEGEND:

FIRE HOSE

GENERAL NOTES:

NO.: 1. ALL MEASUREMENT IN mm
NO.: 2. ALL LEVELS ARE RELATIVE IN METRE



ESTIMATE

0	2022.11.17	MARVA				
REV	DATE	DRAWN BY	CHECKED BY	DESCRIPTION	APPROVED BY	

OWNER:

SPONSOR:

PROJECT MANAGER:

CONTRACTOR:

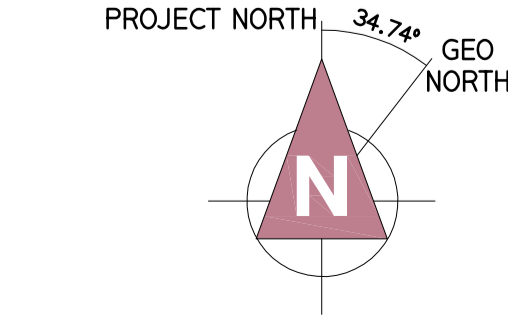
PROJECT: **NEWPORT ENERGY FROM WASTE PLANT**

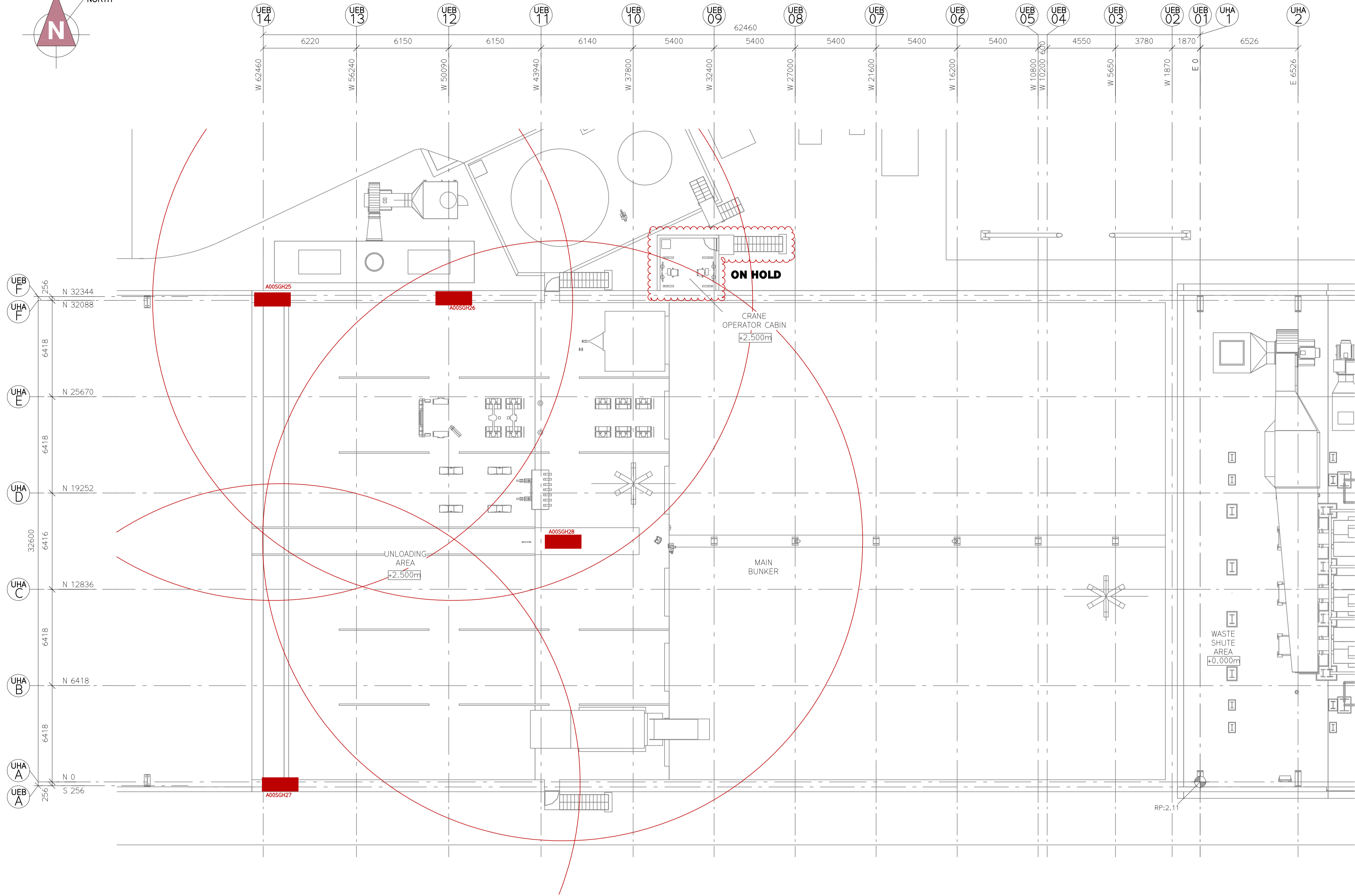
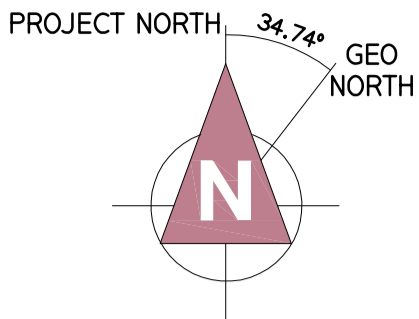
SUB-CONTRACTOR:

SUBJECT:
UNLOADING SOLID FUEL BUILDING (UEA)
HOSE REEL LAYOUT
GROUND FLOOR PLAN, LEVEL: +1.300m

SCALE: A1=1:100 A3=1:200	SEC DWG.NO.: 1017.M4.J09.211 PROJECT NO. GR. NO. SHT.	REV. <div>0</div>
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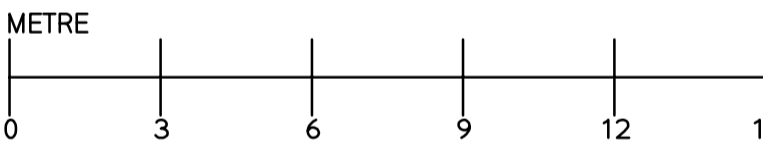
MECHANICAL EQUIPMENT			WEIGHT
SGH25	HOSE CABINET		30 kg
SGH26	HOSE CABINET		30 kg
SGH27	HOSE CABINET		30 kg
SGH28	HOSE CABINET		30 kg

LEGEND:

FIRE HOSE

GENERAL NOTES:

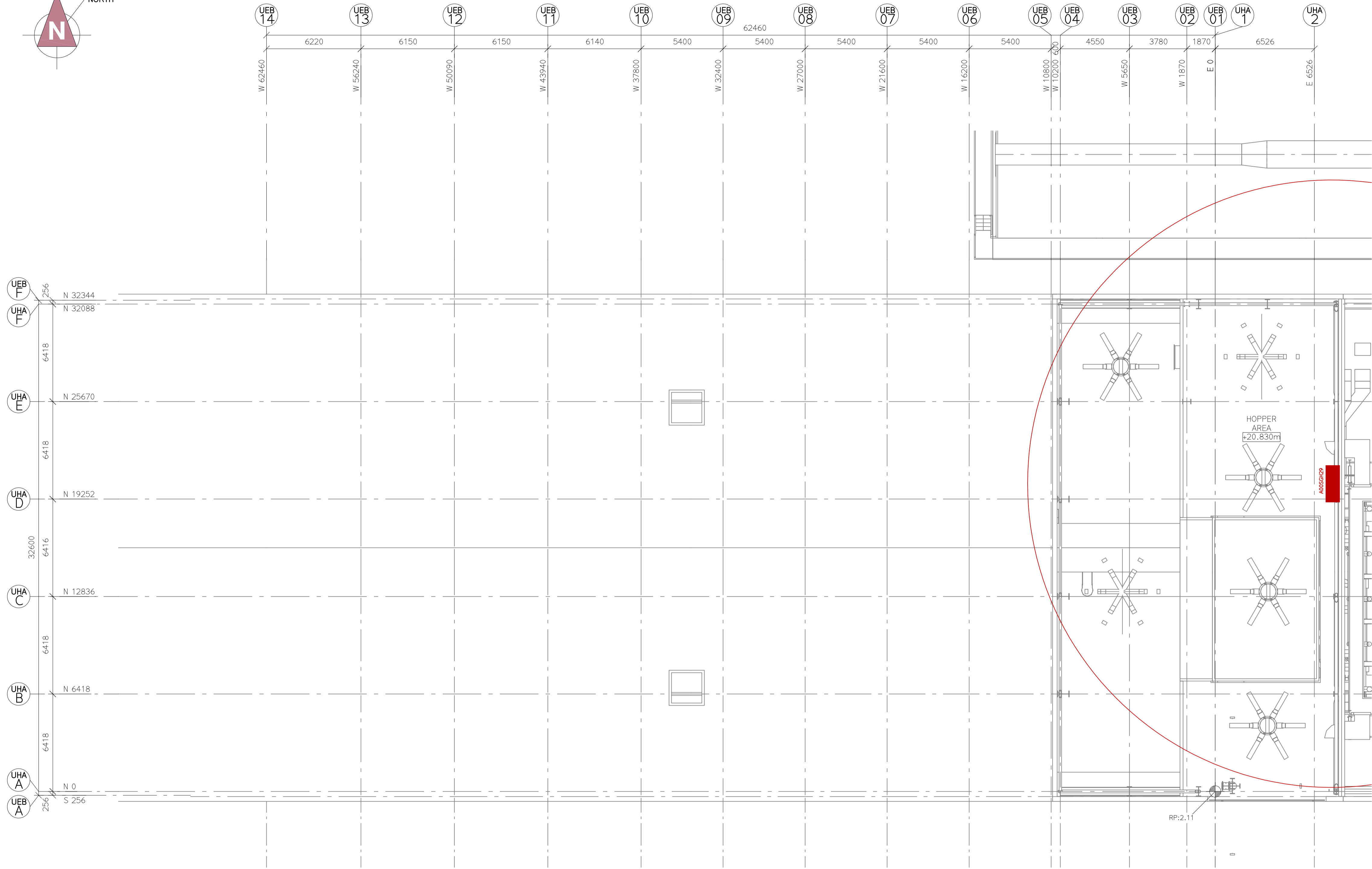
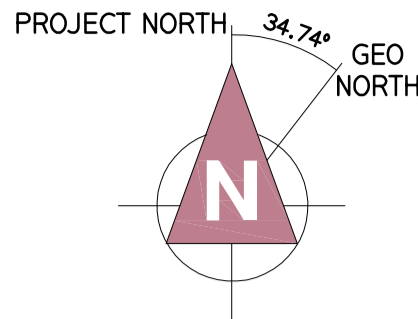
NO.: 1. ALL MEASUREMENT IN mm
NO.: 2. ALL LEVELS ARE RELATIVE IN METRE



ESTIMATE

0	2022.11.17	MARVA				
REV	DATE	DRAWN BY	CHECKED BY	DESCRIPTION	APPROVED BY	
OWNER:						
SPONSOR:						
PROJECT MANAGER:						
CONTRACTOR:						
PROJECT:						
SUB-CONTRACTOR:						
SUBJECT:						
FUEL BUNKER BUILDING (UEB) HOSE REEL LAYOUT GROUND FLOOR PLAN, LEVEL: +2.500m						
SCALE:			SEC DWG.NO.:			
A1=1:150 A3=1:300			1017.M4.J09.251			
PROJECT NO.			GR.			NO.
						SHT.
						REV.
						0

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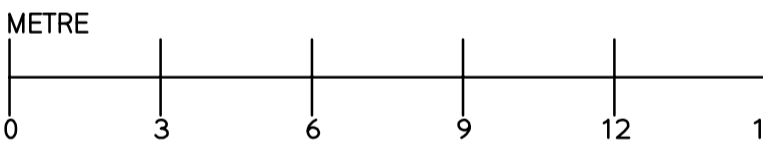
MECHANICAL EQUIPMENT		WEIGHT
SGH29	HOSE CABINET	30 kg

LEGEND:

■ FIRE HOSE

GENERAL NOTES:

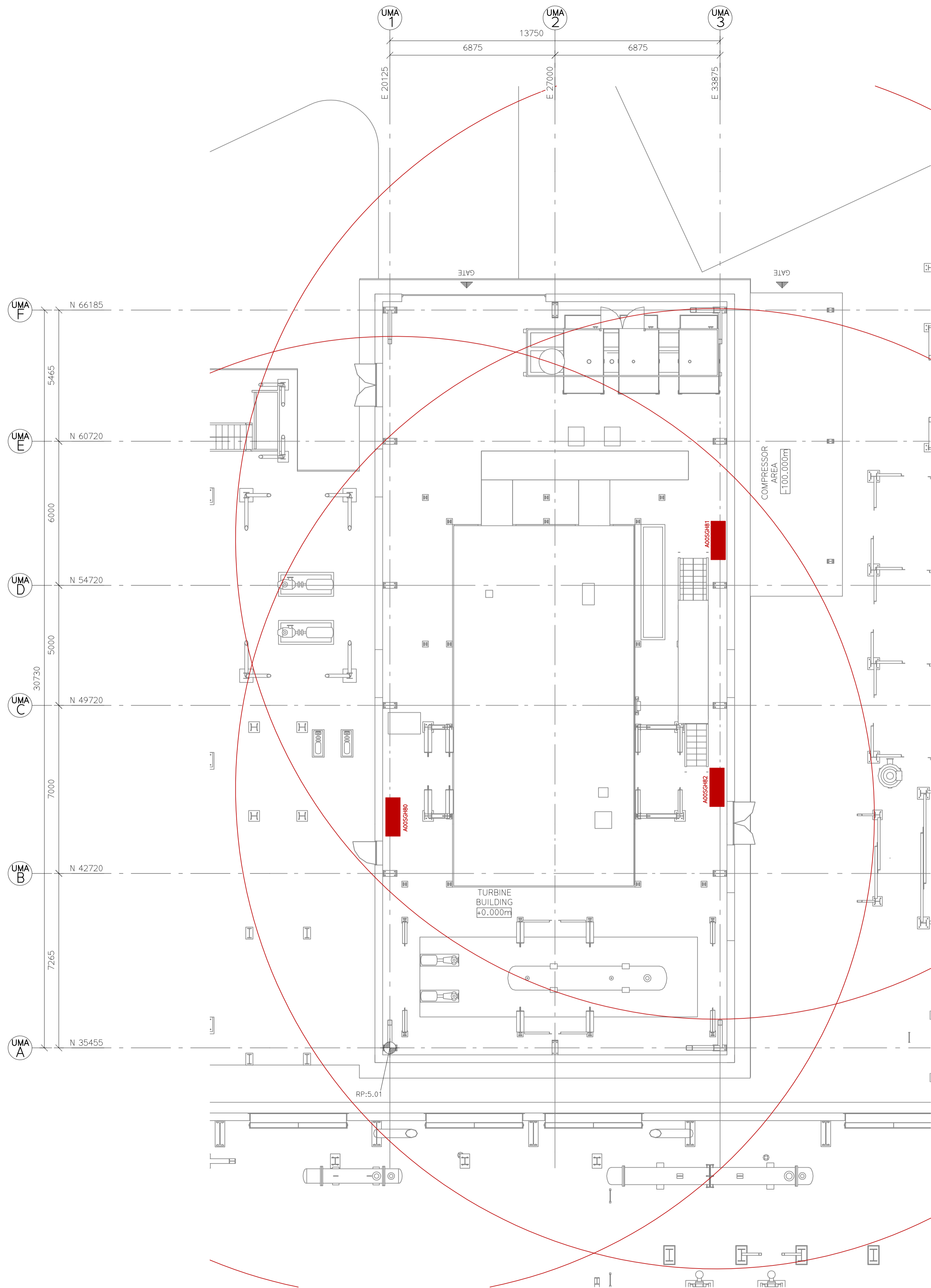
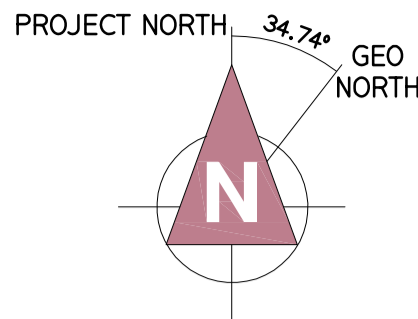
NO.: 1. ALL MEASUREMENT IN mm
NO.: 2. ALL LEVELS ARE RELATIVE IN METRE



ESTIMATE

0	2022.11.17	MARVA				
REV	DATE	DRAWN BY	CHECKED BY	DESCRIPTION	APPROVED BY	
OWNER:						
SPONSOR:						
PROJECT MANAGER:						
CONTRACTOR:						
PROJECT:						
NEWPORT ENERGY FROM WASTE PLANT						
SUB-CONTRACTOR:						
SUBJECT:						
FUEL BUNKER BUILDING (UEB)						
HOSE REEL LAYOUT						
FLOOR PLAN, LEVEL: +20.830m						
SCALE:			SEC DWG.NO.:			
A1=1:150			1017.M4.J09.253			
A3=1:300			PROJECT NO. GR. NO. SH. REV.			
			<div><div>0</div><div>REV.</div></div>			

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MECHANICAL EQUIPMENT		WEIGHT
SGH80	HOSE CABINET	30 kg
SGH81	HOSE CABINET	30 kg
SGH82	HOSE CABINET	30 kg

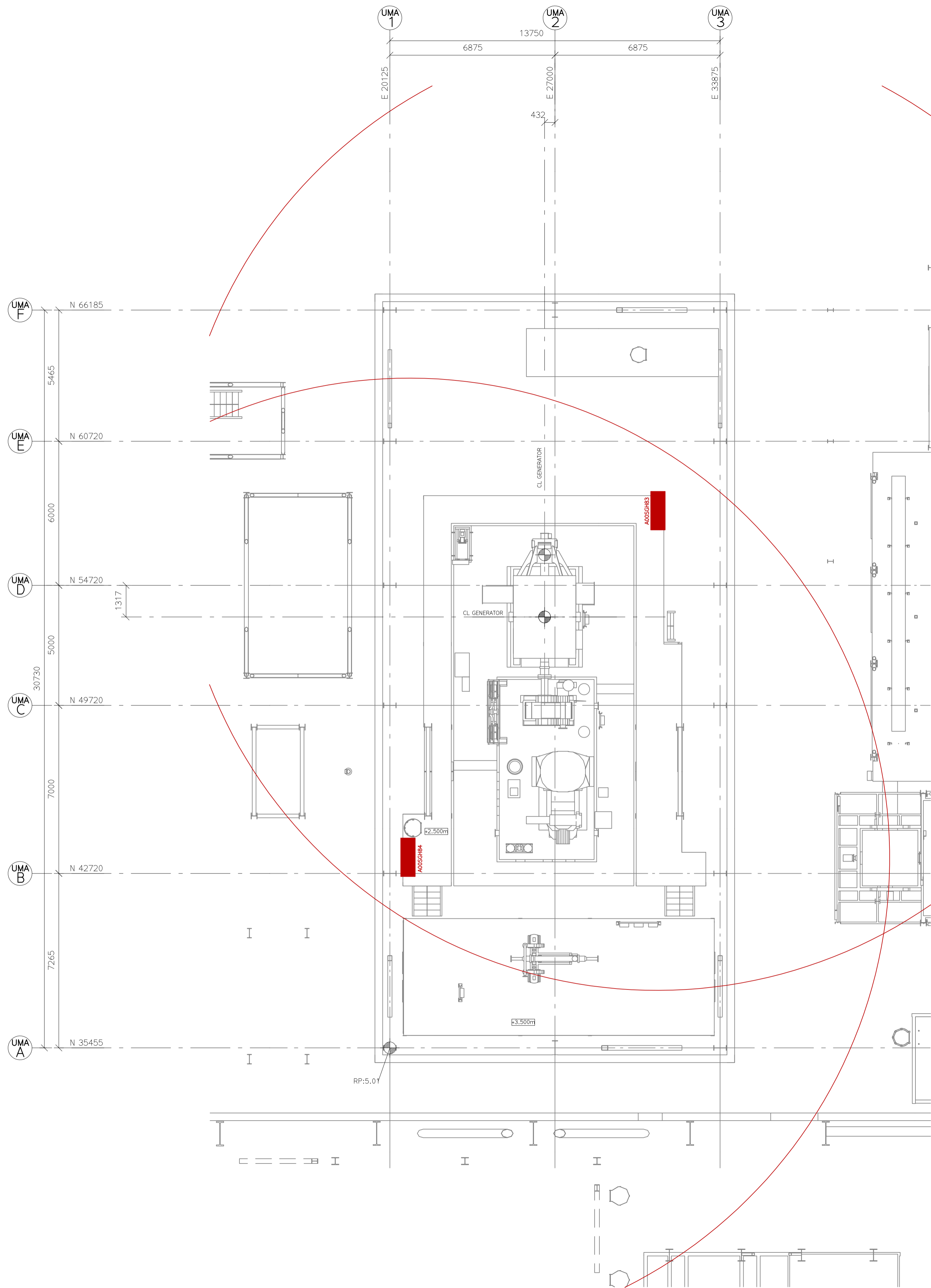
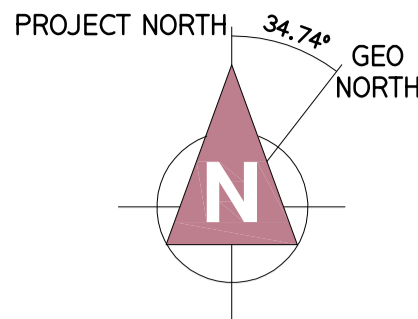
LEGEND:
FIRE HOSE

GENERAL NOTES:
NO.: 1. ALL MEASUREMENT IN mm
NO.: 2. ALL LEVELS ARE RELATIVE IN METRE
METRE
0 2 4 6 8 10

ESTIMATE

0	2022.11.17	MARVA			
REV	DATE	DRAWN BY	CHECKED BY	DESCRIPTION	APPROVED BY
OWNER:					
SPONSOR:					
PROJECT MANAGER:					
CONTRACTOR:					
PROJECT: NEWPORT ENERGY FROM WASTE PLANT					
SUB-CONTRACTOR:					
SUBJECT: TURBINE BUILDING (UMA) HOSE REEL LAYOUT GROUND FLOOR PLAN, LEVEL +0.000m					
SCALE: A1=1:100 A3=1:200			SEC DWG.NO.: 1017:M4:J09:501 PROJECT NO. GR. NO. SHT. REV.		

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MECHANICAL EQUIPMENT		WEIGHT
SGH83	HOSE CABINET	30 kg
SGH84	HOSE CABINET	30 kg

LEGEND:

FIRE HOSE

GENERAL NOTES:

NO.: 1. ALL MEASUREMENT IN mm
NO.: 2. ALL LEVELS ARE RELATIVE IN METRE

METRE

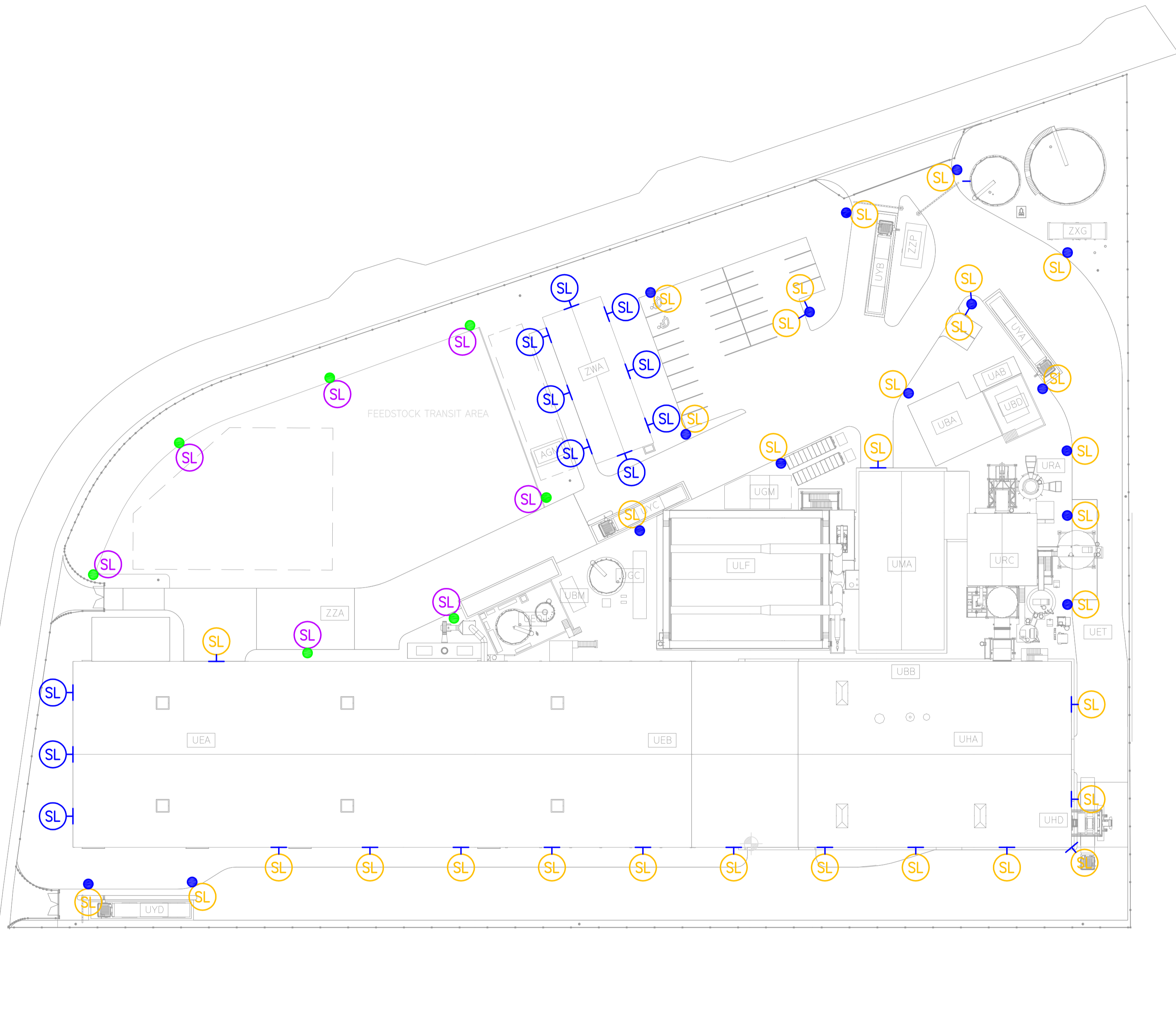
0 2 4 6 8 10








ESTIMATE

0	2022.11.17	MARVA			
REV	DATE	DRAWN BY	CHECKED BY	DESCRIPTION	APPROVED BY
OWNER:					
SPONSOR:					
PROJECT MANAGER:					
CONTRACTOR:					
PROJECT: NEWPORT ENERGY FROM WASTE PLANT					
SUB-CONTRACTOR:					
SUBJECT: TURBINE BUILDING (UMA) HOSE REEL LAYOUT PLAN VIEW, LEVEL +2.500m & +3.500m					

SCALE: A1=1:100 A3=1:200	SEC DWG.NO.: 1017:M4-J09-502 PROJECT NO. GR. NO. SHT. REV.	<div>0</div>
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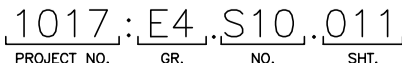



SYMBOL	DESCRIPTION	QTY
	FIGHTER 30W	11
	FIGHTER 70W	32
	FIGHTER 200W	7
	10m POLE MOUNTING OF FIXTURES	16
	DOUBLE ARM BRACKET MOUNTING OF FIXTURES	2
	20m POLE MOUNTING OF FIXTURES	7
	BRACKET MOUNTING OF FIXTURES	25

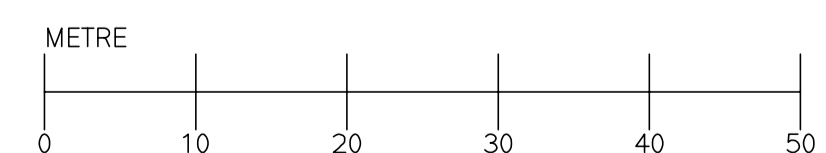
1. ALL ROADLIGHT FIXTURES ARE TILTED UP AT 15 DEGREES

1. ALL ROADLIGHT FIXTURES ARE TILTED UP AT 15 DEGREES

FOR
APPROVAL

O	2022.12.01	GELMA	JOMS/KETH	FIRST ISSUE	ALIZ
REV	DATE	DRAWN BY	CHECKED BY	DESCRIPTION	APPROVED BY
OWNER:					
RDF ENERGY NO. 1 LTD				TOM LEWIS WAY, ALEXANDRA DOCK NEWPORT, WALES UK NP20 2WF TELEPHONE : +44 01782 384898	
SPONSOR					
		ST HELEN'S, 1 UNDERSHAFT LONDON, EC3P 3DQ UK, VAT REG NO. 220227168 TELEPHONE: +44 (0)207 809 6000			
PROJECT MANAGER:					
		BLYTHE HOUSE, BLYTHE PARK, CRESSWELL, STOKE ON TREANT, STAFFORDSHIRE ST11-9RD, UK TELEPHONE: +44 01782 384998			
CONTRACTOR:					
		GYDEVANG 39 - 41 DK 3450 ALLEROED, DENMARK TELEPHONE : +45 3226 6401 EMAIL: WWW.SECONTRACTOR.DK			
PROJECT:					
NEWPORT ENERGY FROM WASTE PLANT					
SUB-CONTRACTOR:					
SUBJECT:					
LAYOUT OF LIGHTING FIXTURES ROAD LIGHTING					
SCALE: A1 = 1:500 A3 = 1:1000		SEC DWG.NO.:  PROJECT NO. GR. NO. SHI.			

REFERENCE DOCUMENT		
DRAWING NO.	DOCUMENT TITLE	REV. NO.
1017.D2.001.101	LAYOUT DRAWING	0

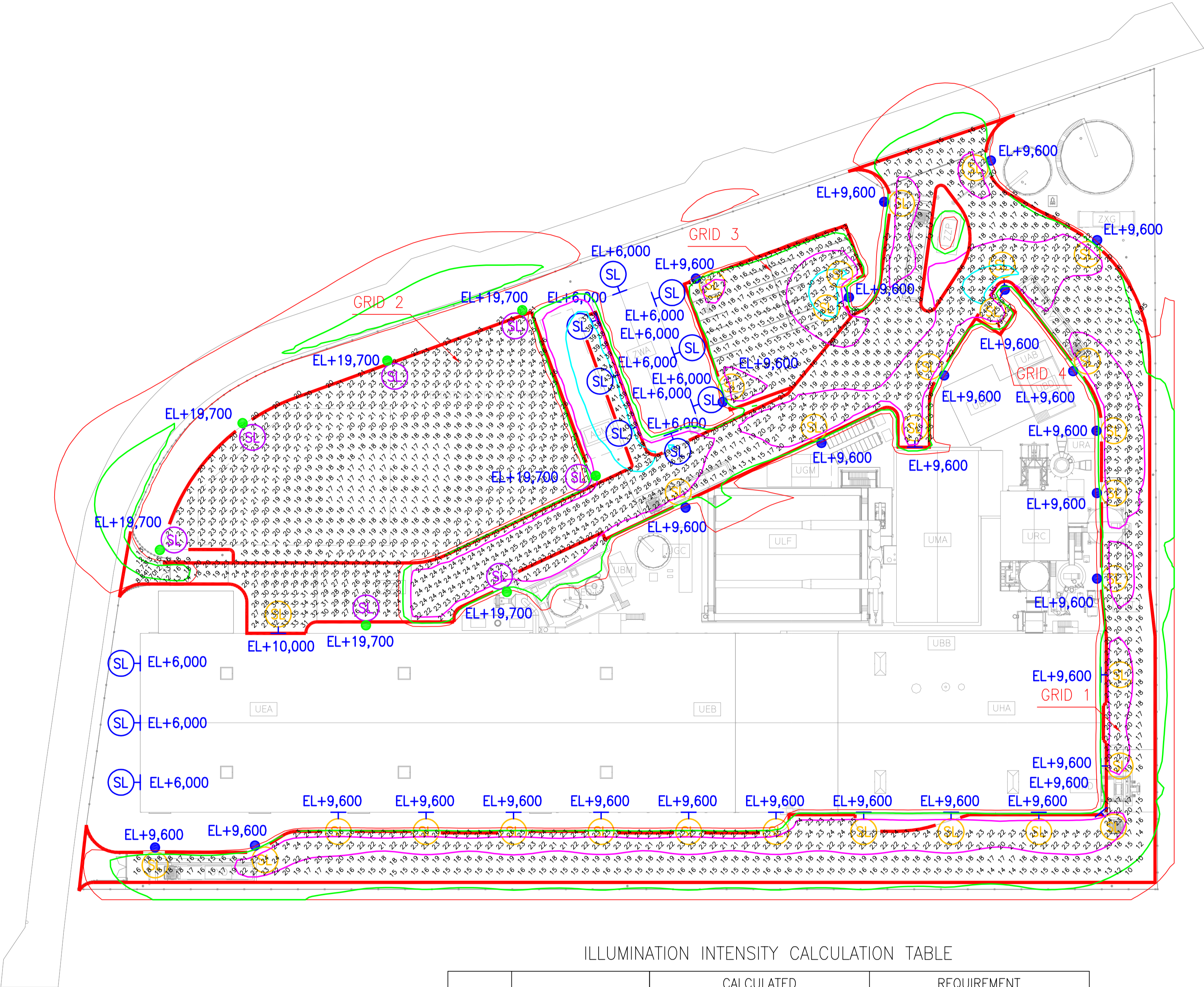
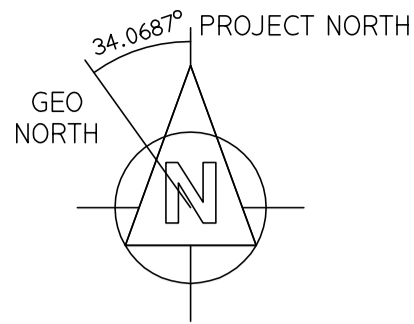


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SCALE:
A1 = 1:500
A3 = 1:1000

SEC DWG.NO.: 1017 : E4 . S10 . 011
PROJECT NO. GR. NO. SHT.

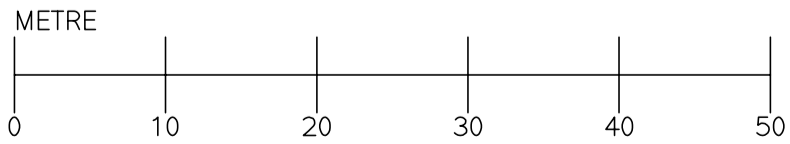




ILLUMINATION INTENSITY CALCULATION TABLE

GRID NO.	AREA CONSIDERED	CALCULATED		REQUIREMENT	
		ILLUMINATION LEVEL (LUX)	MIN./AVE.	ILLUMINATION LEVEL (LUX)	MIN./AVE.
1	ROADWAY	22.0	0.41	20	0.40
2	FEEDSTOCK TRANSIT AREA	21.0	0.78	20	0.25
3	PARKING AREA	20.0	0.66	20	0.40
4	DNO PARKING AREA	25.0	0.75	20	0.40

REFERENCE DOCUMENT		
DRAWING NO.	DOCUMENT TITLE	REV. NO.
1017.D2.001.101	LAYOUT DRAWING	0



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LEGEND:

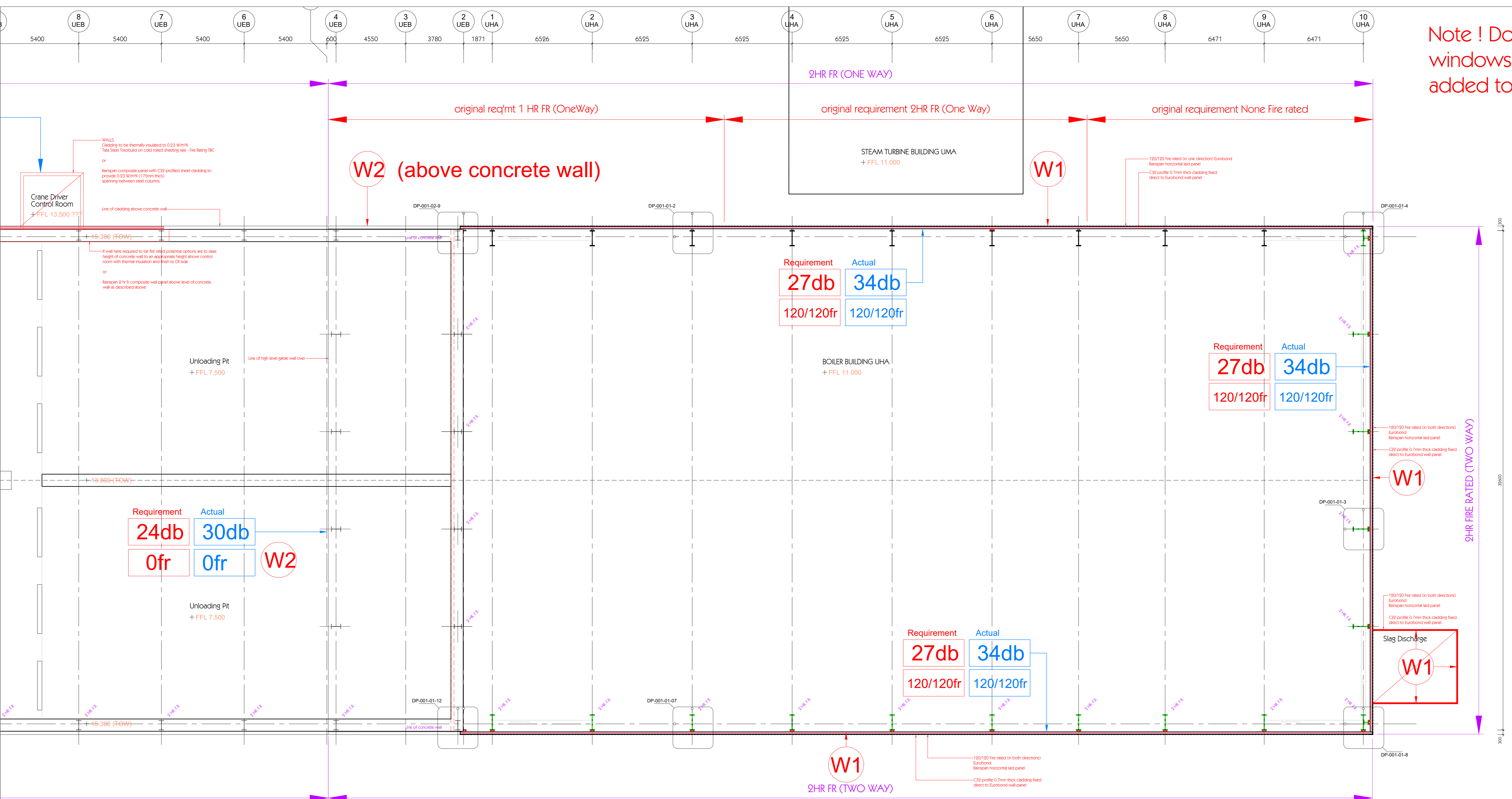
SYMBOL	DESCRIPTION	QTY
	FIGHTER 30W	11
	FIGHTER 70W	32
	FIGHTER 200W	7
	10m POLE MOUNTING OF FIXTURES	16
	DOUBLE ARM BRACKET MOUNTING OF FIXTURES	2
	20m POLE MOUNTING OF FIXTURES	7
	BRACKET MOUNTING OF FIXTURES	25

NOTES:

- ALL DIMENSIONS AND ELEVATIONS ARE IN MILLIMETERS. (EL+XX,XXX).
- ALL ROADLIGHT FIXTURES ARE TILTED UP AT 15 DEGREES.
- THE ILLUMINATION LEVEL OF OUTDOOR LIGHTING WILL BE MEASURED HORIZONTALLY AT FLOOR LEVEL.
- ISOLINES OF LUX INTENSITY ARE AS FOLLOWS:
 - 5.0 lx
 - 10.0 lx
 - 20.0 lx
 - 30.0 lx
 - 50.0 lx

FOR APPROVAL

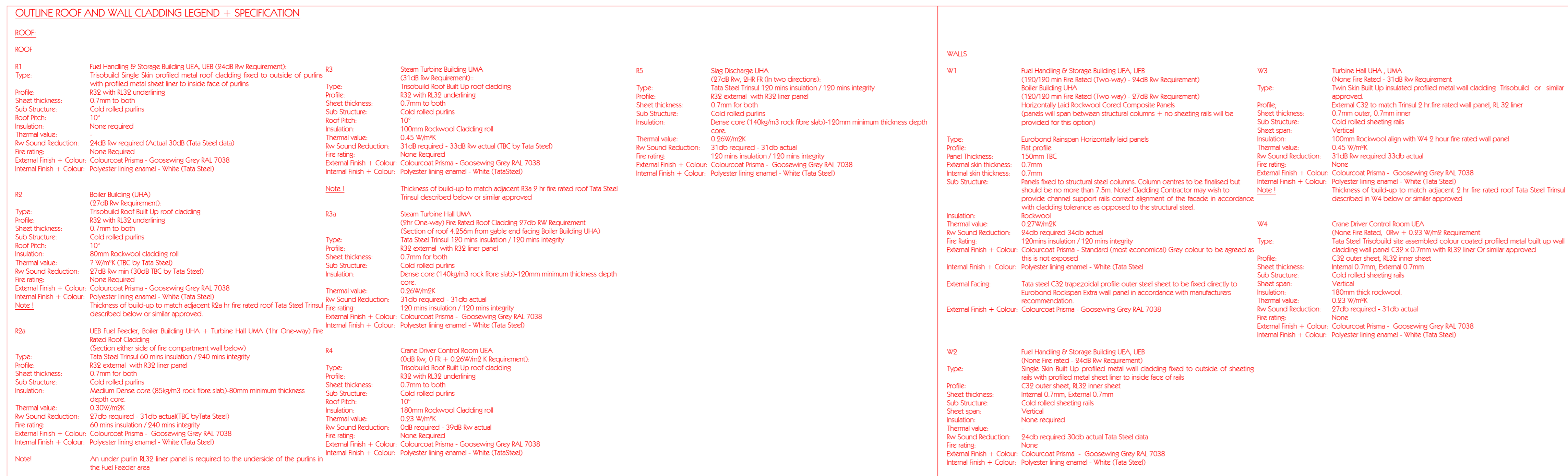
0	2022.12.01	GELMA	JOMS/KETH	FIRST ISSUE	ALIZ
REV	DATE	DRAWN BY	CHECKED BY	DESCRIPTION	APPROVED BY
OWNER: RDF ENERGY NO. 1 LTD					TOM LEWIS WAY, ALEXANDRA DOCK NEWPORT, WALES UK NP20 2WF TELEPHONE : +44 01782 384898
SPONSOR AVIVA					ST HELEN'S, 1 UNDERSHAFT LONDON, EC3P 3DQ UK, VAT REG NO. 220227168 TELEPHONE: +44 (0)207 809 6000
PROJECT MANAGER: CoGen					BLYTHE HOUSE, BLYTHE PARK, CRESSWELL, STOKE ON TREANT, STAFFORDSHIRE ST11-9RD, UK TELEPHONE: +44 01782 384898
CONTRACTOR: SCANDINAVIAN ENERGY CONTRACTOR					GYDEVANG 39 - 41 DK 3450 ALLERØD, DENMARK TELEPHONE : +45 3226 8401 EMAL: WWW.SECONTRACTOR.DK
PROJECT: NEWPORT ENERGY FROM WASTE PLANT					
SUB-CONTRACTOR:					
SUBJECT: ILLUMINATION INTENSITY CALCULATIONS ROAD LIGHTING					
SCALE: A1 = 1:500 A3 = 1:1000		SEC DWG.NO.: 1017.E4.S10.111		PROJECT NO. GR. NO. SHT. REV.	

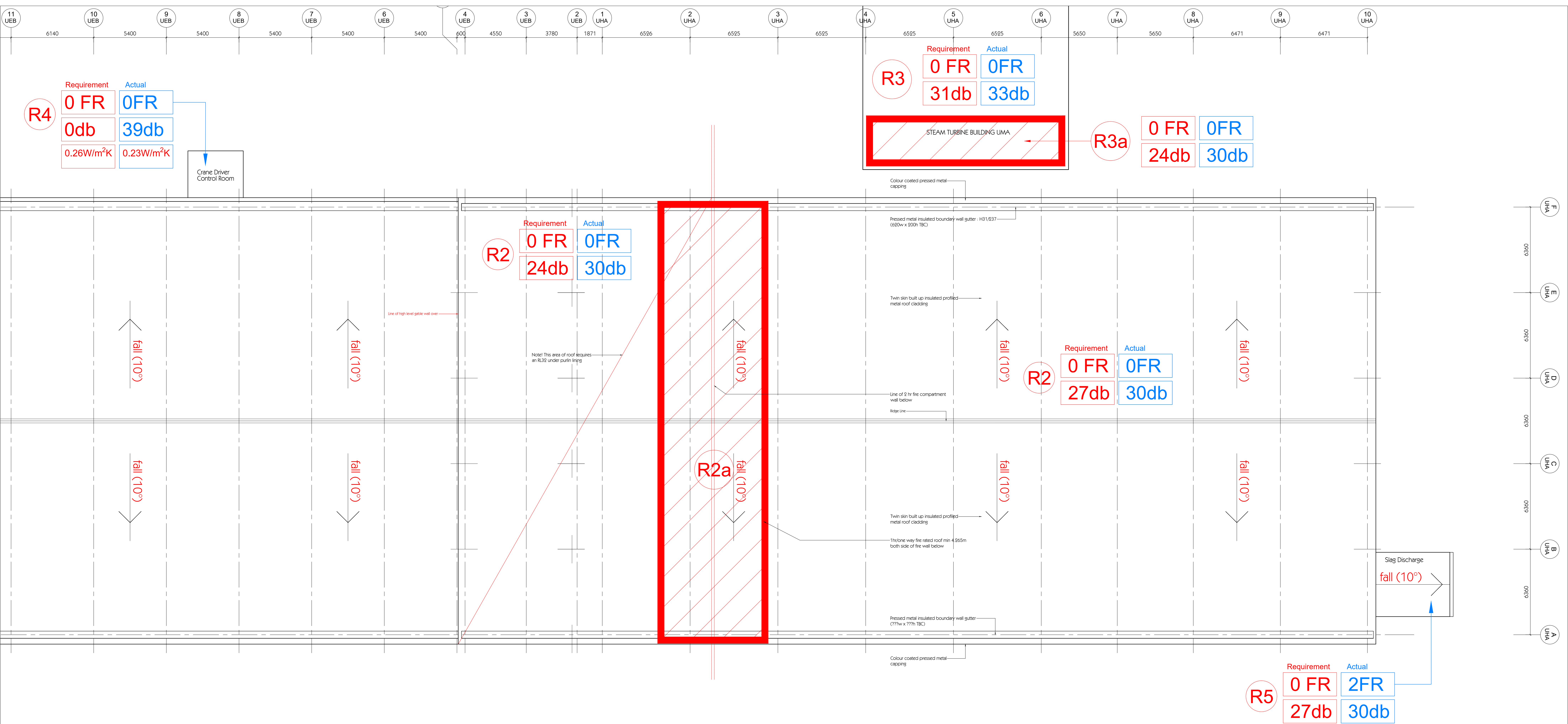


Note ! Door and windows still to be added to UHA

OUTLINE ROOF AND WALL CLADDING LEGEND + SPECIFICATION

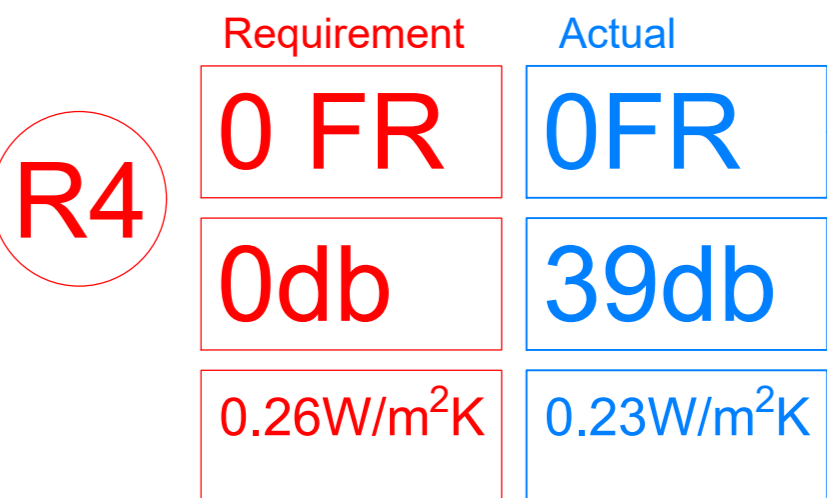
ROOF			
ROOF			
R1	Fuel Handling in Storage Building UEA, UEB (0.4db Rv Requirement)	R3	Steam Turbine Building UMA
Type:	Trebolite Single Skin profiled metal roof cladding fixed to outside of purlins	Type:	Trebolite Roof Built Up roof cladding
Profile:	R32 with R32 underlayment	Profile:	R32 external with R32 inner panel
Sheet thickness:	0.7mm to both	Sheet thickness:	0.7mm to both
Sub Structure:	Cold rolled purlins	Sub Structure:	Cold rolled purlins
Roof Pitch:	None required	Roof Pitch:	10°
Insulation:	None required	Insulation:	100mm Rockwool Cladding roll
Thermal value:	0.4db Rv required (Actual 30db (Tata Steel data))	Thermal value:	0.45 W/m²K
Rv Sound Reduction:	None required	Rv Sound Reduction:	31db required - 33db Rv actual (TBC by Tata Steel)
Fire rating:	Colocast Prime - Gossweing Grey RAL 7038	Fire rating:	None required
External Finish + Colour:	Colocast Prime - Gossweing Grey RAL 7038	External Finish + Colour:	Colocast Prime - Gossweing Grey RAL 7038
Internal Finish + Colour:	Polyester lining enamel - White (Tata Steel)	Internal Finish + Colour:	Polyester lining enamel - White (Tata Steel)
Note 1			
R2	Boiler Building UHA	R3a	Steam Turbine Hall UMA
Type:	Trebolite Roof Built Up roof cladding	Type:	Trebolite Roof Built Up roof cladding
Profile:	R32 with R32 underlayment	Profile:	R32 external with R32 inner panel
Sheet thickness:	0.7mm to both	Sheet thickness:	0.7mm to both
Sub Structure:	Cold rolled purlins	Sub Structure:	Tata Steel Trebolite 100 mins insulation / 120 mins integrity
Roof Pitch:	10°	Roof Pitch:	10°
Insulation:	100mm Rockwool Cladding roll	Insulation:	100mm Rockwool Cladding roll
Thermal value:	0.45 W/m²K (TBC by Tata Steel)	Thermal value:	0.45 W/m²K
Rv Sound Reduction:	31db required - 33db Rv actual (TBC by Tata Steel)	Rv Sound Reduction:	31db required - 33db Rv actual (TBC by Tata Steel)
Fire rating:	Colocast Prime - Gossweing Grey RAL 7038	Fire rating:	Colocast Prime - Gossweing Grey RAL 7038
External Finish + Colour:	Colocast Prime - Gossweing Grey RAL 7038	External Finish + Colour:	Colocast Prime - Gossweing Grey RAL 7038
Internal Finish + Colour:	Polyester lining enamel - White (Tata Steel)	Internal Finish + Colour:	Polyester lining enamel - White (Tata Steel)
Note 1			
R2a	UEB Fuel Feeder Boiler Building UMA + Turbine Hall UMA (1hr One-way) fire rated roof cladding	R4	Crane Driver Control Room UEA
Type:	Trebolite Single Skin profiled metal roof cladding fixed to outside of purlins	Type:	Trebolite Roof Built Up roof cladding
Profile:	R32 external with R32 inner panel	Profile:	R32 with R32 underlayment
Sheet thickness:	0.7mm to both	Sheet thickness:	0.7mm to both
Sub Structure:	Cold rolled purlins	Sub Structure:	Cold rolled purlins
Roof Pitch:	10°	Roof Pitch:	10°
Insulation:	100mm Rockwool Cladding roll	Insulation:	100mm Rockwool Cladding roll
Thermal value:	0.45 W/m²K	Thermal value:	0.45 W/m²K
Rv Sound Reduction:	31db required - 33db Rv actual (TBC by Tata Steel)	Rv Sound Reduction:	31db required - 33db Rv actual (TBC by Tata Steel)
Fire rating:	Colocast Prime - Gossweing Grey RAL 7038	Fire rating:	Colocast Prime - Gossweing Grey RAL 7038
External Finish + Colour:	Colocast Prime - Gossweing Grey RAL 7038	External Finish + Colour:	Colocast Prime - Gossweing Grey RAL 7038
Internal Finish + Colour:	Polyester lining enamel - White (Tata Steel)	Internal Finish + Colour:	Polyester lining enamel - White (Tata Steel)
Note 1			
Note 2			
An under purlin R32 liner panel is required to the underside of the purlins in the Fuel Feeder area			
WALLS			
W1	Fuel Handling in Storage Building UEA, UEB	W1	Turbine Hall UMA, UMA
Type:	Trebolite Single Skin profiled metal roof cladding fixed to outside of purlins	Type:	Trebolite Single Skin profiled metal roof cladding
Profile:	R32 with R32 underlayment	Profile:	R32 external with R32 inner panel
Sheet thickness:	0.7mm to both	Sheet thickness:	0.7mm to both
Sub Structure:	Cold rolled purlins	Sub Structure:	Cold rolled purlins
Roof Pitch:	10°	Roof Pitch:	10°
Insulation:	100mm Rockwool Cladding roll	Insulation:	100mm Rockwool Cladding roll
Thermal value:	0.45 W/m²K	Thermal value:	0.45 W/m²K
Rv Sound Reduction:	31db required - 33db Rv actual (TBC by Tata Steel)	Rv Sound Reduction:	31db required - 33db Rv actual (TBC by Tata Steel)
Fire rating:	Colocast Prime - Gossweing Grey RAL 7038	Fire rating:	Colocast Prime - Gossweing Grey RAL 7038
External Finish + Colour:	Colocast Prime - Gossweing Grey RAL 7038	External Finish + Colour:	Colocast Prime - Gossweing Grey RAL 7038
Internal Finish + Colour:	Polyester lining enamel - White (Tata Steel)	Internal Finish + Colour:	Polyester lining enamel - White (Tata Steel)
Note 1			
W2	Fuel Handling in Storage Building UEA, UEB	W2	Crane Driver Control Room UEA
Type:	Trebolite Single Skin profiled metal roof cladding fixed to outside of purlins	Type:	Trebolite Roof Built Up roof cladding
Profile:	R32 with R32 underlayment	Profile:	R32 with R32 underlayment
Sheet thickness:	0.7mm to both	Sheet thickness:	0.7mm to both
Sub Structure:	Cold rolled purlins	Sub Structure:	Cold rolled purlins
Roof Pitch:	10°	Roof Pitch:	10°
Insulation:	100mm Rockwool Cladding roll	Insulation:	100mm Rockwool Cladding roll
Thermal value:	0.45 W/m²K	Thermal value:	0.45 W/m²K
Rv Sound Reduction:	31db required - 33db Rv actual (TBC by Tata Steel)	Rv Sound Reduction:	31db required - 33db Rv actual (TBC by Tata Steel)
Fire rating:	Colocast Prime - Gossweing Grey RAL 7038	Fire rating:	Colocast Prime - Gossweing Grey RAL 7038
External Finish + Colour:	Colocast Prime - Gossweing Grey RAL 7038	External Finish + Colour:	Colocast Prime - Gossweing Grey RAL 7038
Internal Finish + Colour:	Polyester lining enamel - White (Tata Steel)	Internal Finish + Colour:	Polyester lining enamel - White (Tata Steel)
Note 1			

[illegible]



OUTLINE ROOF AND WALL CLADDING LEGEND + SPECIFICATION




ROOF			
ROOF			
R1	Fuel Handling & Storage Building UEA, UEB (0.4db Rv Requirement) Trebuilt Single Skin profiled metal roof cladding fixed to outside of purlins with profiled metal sheet liner to inside face of purlins Profile: R32 with R32 underlayment Sheet thickness: 0.7mm to both Sub Structure: Cold rolled purlins Roof Pitch: 10° Insulation: None required Thermal value: 0.26W/m²K Rv Sound Reduction: 0db Fire rating: None Required External Finish + Colour: Colourscoat Prime - Gosswey Grey RAL 7038 Internal Finish + Colour: Polyester lining enamel - White (TataSteel)	R3	Steam Turbine Building UMA (0.7db Rv Requirement) Trebuilt Roof Built Up roof cladding Profile: R32 with R32 underlayment Sheet thickness: 0.7mm to both Sub Structure: Cold rolled purlins Roof Pitch: 10° Insulation: 100mm Rockwool Cladding roll core Thermal value: 0.45 W/m²K Rv Sound Reduction: 31db required - 33db Rv actual (TBC by Tata Steel) Fire rating: None Required External Finish + Colour: Colourscoat Prime - Gosswey Grey RAL 7038 Internal Finish + Colour: Polyester lining enamel - White (TataSteel)
R2	Boiler Building UEA (0.7db Rv Requirement) Trebuilt Roof Built Up roof cladding Profile: R32 with R32 underlayment Sheet thickness: 0.7mm to both Sub Structure: Cold rolled purlins Roof Pitch: 10° Insulation: 80mm Rockwool cladding roll core Thermal value: 0.26W/m²K Rv Sound Reduction: 0db Fire rating: None Required External Finish + Colour: Colourscoat Prime - Gosswey Grey RAL 7038 Internal Finish + Colour: Polyester lining enamel - White (TataSteel)	R3a	Steam Turbine Building UMA (0.7db Rv Requirement) Trebuilt Roof Built Up roof cladding Profile: R32 with R32 underlayment Sheet thickness: 0.7mm to both Sub Structure: Cold rolled purlins Roof Pitch: 10° Insulation: 100mm Rockwool Cladding roll core Thermal value: 0.45 W/m²K Rv Sound Reduction: 31db required - 33db Rv actual (TBC by Tata Steel) Fire rating: None Required External Finish + Colour: Colourscoat Prime - Gosswey Grey RAL 7038 Internal Finish + Colour: Polyester lining enamel - White (TataSteel)
R2a	UEA Fuel Feeders Boiler Building UEA + Turbine Hall UMA (1hr One-way) fire rated roof cladding Section either side of fire compartment wall below Tata Steel Tinsul 60 mins insulation / 540 mins integrity Thickness of build-up to match adjacent R3a 2 hr fire rated roof Tata Steel Tinsul described below or similar approved	R4	Crane Driver Control Room UEA (0.4db Rv Requirement) Trebuilt Roof Built Up roof cladding Profile: R32 with R32 underlayment Sheet thickness: 0.7mm to both Sub Structure: Cold rolled purlins Roof Pitch: 10° Insulation: 100mm Rockwool Cladding roll core Thermal value: 0.26W/m²K Rv Sound Reduction: 0db Fire rating: None Required External Finish + Colour: Colourscoat Prime - Gosswey Grey RAL 7038 Internal Finish + Colour: Polyester lining enamel - White (TataSteel)
Note: An under purlin R32 liner panel is required to the underside of the purlins in the Fuel Releaser area			
WALLS			
W1	Fuel Handling & Storage Building UEA, UEB (0.4db Rv Requirement) Boiler Building UEA (0.7db Rv Requirement) Trebuilt Single Skin profiled metal roof cladding fixed to outside of purlins with profiled metal sheet liner to inside face of purlins Profile: R32 with R32 underlayment Sheet thickness: 0.7mm to both Sub Structure: Cold rolled purlins Roof Pitch: 10° Insulation: None required Thermal value: 0.26W/m²K Rv Sound Reduction: 0db Fire rating: None Required External Finish + Colour: Colourscoat Prime - Gosswey Grey RAL 7038 Internal Finish + Colour: Polyester lining enamel - White (TataSteel)	W2	Fuel Handling & Storage Building UEA, UEB (0.4db Rv Requirement) Boiler Building UEA (0.7db Rv Requirement) Trebuilt Single Skin profiled metal roof cladding fixed to outside of purlins with profiled metal sheet liner to inside face of purlins Profile: R32 with R32 underlayment Sheet thickness: 0.7mm to both Sub Structure: Cold rolled purlins Roof Pitch: 10° Insulation: None required Thermal value: 0.26W/m²K Rv Sound Reduction: 0db Fire rating: None Required External Finish + Colour: Colourscoat Prime - Gosswey Grey RAL 7038 Internal Finish + Colour: Polyester lining enamel - White (TataSteel)
W3	Turbine Hall UEA, UMA (0.7db Rv Requirement) Boiler Building UEA (0.7db Rv Requirement) Trebuilt Single Skin profiled metal roof cladding fixed to outside of purlins with profiled metal sheet liner to inside face of purlins Profile: R32 with R32 underlayment Sheet thickness: 0.7mm to both Sub Structure: Cold rolled purlins Roof Pitch: 10° Insulation: None required Thermal value: 0.26W/m²K Rv Sound Reduction: 0db Fire rating: None Required External Finish + Colour: Colourscoat Prime - Gosswey Grey RAL 7038 Internal Finish + Colour: Polyester lining enamel - White (TataSteel)	W4	Crane Driver Control Room UEA (0.4db Rv Requirement) Boiler Building UEA (0.7db Rv Requirement) Trebuilt Single Skin profiled metal roof cladding fixed to outside of purlins with profiled metal sheet liner to inside face of purlins Profile: R32 with R32 underlayment Sheet thickness: 0.7mm to both Sub Structure: Cold rolled purlins Roof Pitch: 10° Insulation: None required Thermal value: 0.26W/m²K Rv Sound Reduction: 0db Fire rating: None Required External Finish + Colour: Colourscoat Prime - Gosswey Grey RAL 7038 Internal Finish + Colour: Polyester lining enamel - White (TataSteel)



	Requirement	Actual
R1	24db	30db
	0fFR	0fFR

Wp	Flat Hending & Storage Building (Wp) - 1400mm x 100mm x 100mm (Wp) - 2400mm x 100mm x 100mm
Profile	Batter 100mm x 100mm x 100mm
Sheet thickness:	100mm x 100mm x 100mm
Sheet Structure:	100mm x 100mm x 100mm
Sheet Spacing:	100mm x 100mm x 100mm
Thermal wup:	100mm x 100mm x 100mm
Thermal wup:	100mm x 100mm x 100mm
Fire rating:	100mm x 100mm x 100mm
Internal Fin - Colour	100mm x 100mm x 100mm
External Fin - Colour	100mm x 100mm x 100mm
Wp	Flat Hending & Storage Building (Wp) - 1400mm x 100mm x 100mm
Profile	Batter 100mm x 100mm x 100mm
Sheet thickness:	100mm x 100mm x 100mm
Sheet Structure:	100mm x 100mm x 100mm
Sheet Spacing:	100mm x 100mm x 100mm
Thermal wup:	100mm x 100mm x 100mm
Thermal wup:	100mm x 100mm x 100mm
Fire rating:	100mm x 100mm x 100mm
Internal Fin - Colour	100mm x 100mm x 100mm
External Fin - Colour	100mm x 100mm x 100mm

[illegible]

BOOK	16.12.22	NBR	CAR	PRO
REV	DATE	ISSUED BY	ISSUED/VERIFIED BY	DES
OWNER: DRF ENERGY NO. 1 LTD				
SPONSOR:				
				
PROJECT MANAGER:				
				
CONTRACTOR:				
				
PROJECT:				
<div>NEWPORT FROM WA</div>				
SUB-CONTRACTOR:				
SUBJECT:				
<div>UEA/UEB PRELIMINARY LAYOUT</div>				
SCALE:		BWSG DWG NO.:		

TONY LEWIS WY. ALEXANDER 007
 HEMPSTADT, ILLINOIS
 UNK 3RD ST
 TELEPHONE 444 01782 384688

ST HELENE, 1 UNDERSTAY
 LONDON, EC2P 300
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BLYTHE HOUSE, BLYTHE PARK
 CROSSLAND, STONE ON TREAT,
 STAFFORDSHIRE
 TELEPHONE 444 01782 384688

ODDINGDON 38-41
 DK 1460 ALPENO, DENMARK
 PHONE 444 3226 8451
 EMAIL: STOCKRETRACTOR.DK

ENERGY
 SITE PLANT

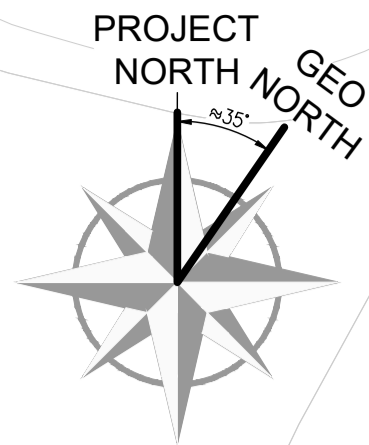
CLADDING ROOF

SCALE: A0 = 1:100
A2 = 1:200

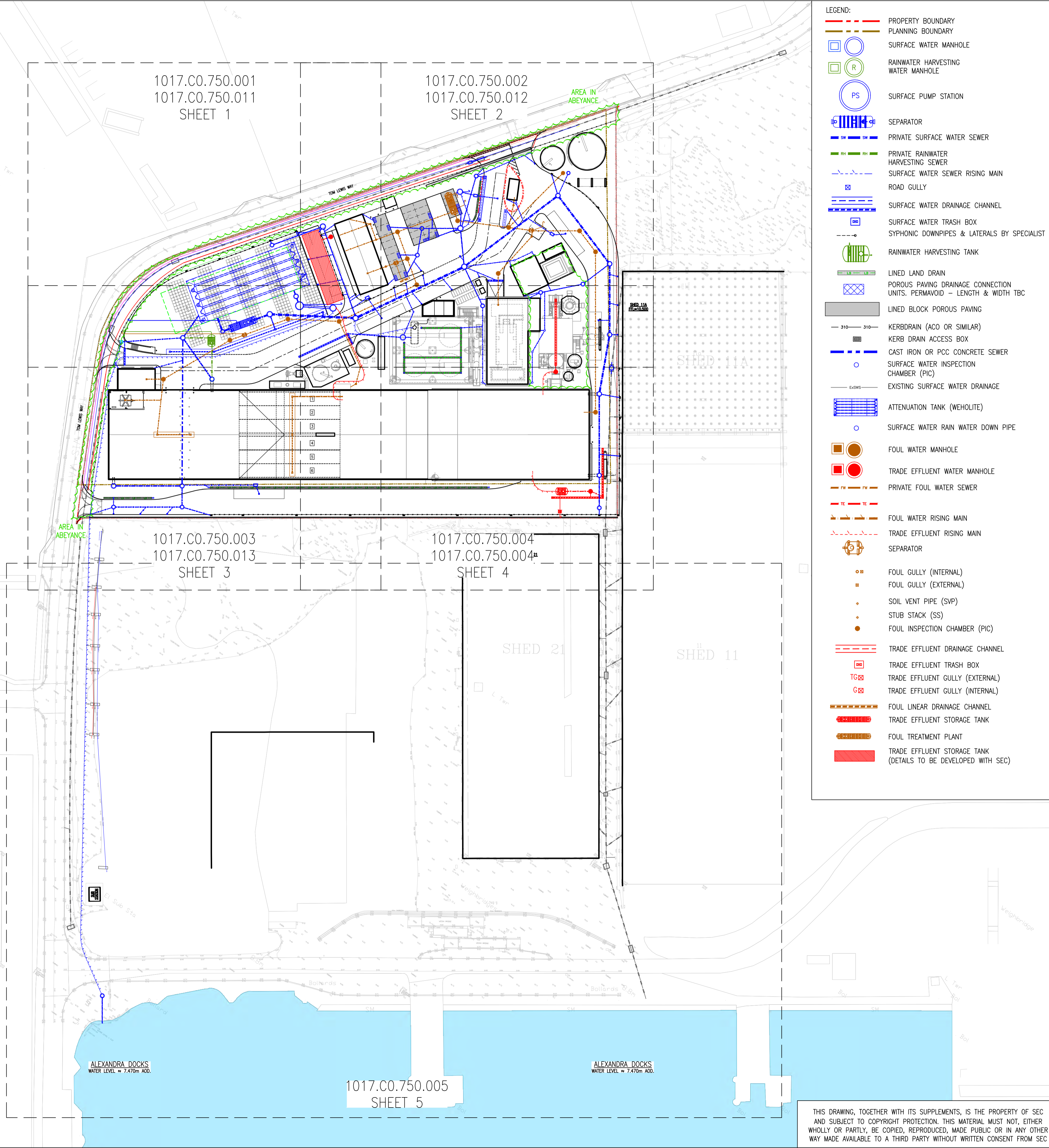
BWSC DWG. NO.: 1017 : LP 001 04
PROJECT NO. OR. NO. SHT.

SCALE: A0 = 1:100
A2 = 1:200

BWSC DWG. NO.: 1017 : LP 001 04
PROJECT NO. OR. NO. SHT.



PRELIMINARY



- LEGEND:
- PROPERTY BOUNDARY
 - PLANNING BOUNDARY
 - SURFACE WATER MANHOLE
 - RAINWATER HARVESTING WATER MANHOLE
 - SURFACE PUMP STATION
 - SEPARATOR
 - PRIVATE SURFACE WATER SEWER
 - PRIVATE RAINWATER HARVESTING SEWER
 - SURFACE WATER SEWER RISING MAIN
 - ROAD GULLY
 - SURFACE WATER DRAINAGE CHANNEL
 - SURFACE WATER TRASH BOX
 - SYPHONIC DOWNPIPES & LATERALS BY SPECIALIST
 - RAINWATER HARVESTING TANK
 - LINED LAND DRAIN
 - POROUS PAVING DRAINAGE CONNECTION UNITS, PERMAVOID - LENGTH & WIDTH TBC
 - LINED BLOCK POROUS PAVING
 - KERBDRAIN (ACO OR SIMILAR)
 - KERB DRAIN ACCESS BOX
 - CAST IRON OR PCC CONCRETE SEWER
 - SURFACE WATER INSPECTION CHAMBER (PIC)
 - EXISTING SURFACE WATER DRAINAGE
 - ATTENUATION TANK (WEHOLITE)
 - SURFACE WATER RAIN WATER DOWN PIPE
 - FOUL WATER MANHOLE
 - TRADE EFFLUENT WATER MANHOLE
 - PRIVATE FOUL WATER SEWER
 - FOUL WATER RISING MAIN
 - TRADE EFFLUENT RISING MAIN
 - SEPARATOR
 - FOUL GULLY (INTERNAL)
 - FOUL GULLY (EXTERNAL)
 - SOIL VENT PIPE (SVP)
 - STUB STACK (SS)
 - FOUL INSPECTION CHAMBER (PIC)
 - TRADE EFFLUENT DRAINAGE CHANNEL
 - TRADE EFFLUENT TRASH BOX
 - TRADE EFFLUENT GULLY (EXTERNAL)
 - TRADE EFFLUENT GULLY (INTERNAL)
 - FOUL LINEAR DRAINAGE CHANNEL
 - TRADE EFFLUENT STORAGE TANK
 - FOUL TREATMENT PLANT
 - TRADE EFFLUENT STORAGE TANK (DETAILS TO BE DEVELOPED WITH SEC)

SAFETY HEALTH AND ENVIRONMENTAL INFORMATION

IN ADDITION TO THE HAZARD/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING RISKS AND INFORMATION.

RISKS LISTED HERE ARE NOT EXHAUSTIVE. REFER TO DESIGN ASSESSMENT FORM NO.

CONSTRUCTION

DEMOLITION

FOR INFORMATION RELATING TO USE, CLEANING AND MAINTENANCE SEE THE HEALTH AND SAFETY FILE

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT.

NOTE:

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER ASSOCIATED FAIRHURST DRAWINGS, SPECIFICATIONS & TOPOGRAPHICAL SURVEY BY CITY SURVEYS LTD FOR THIS PROJECT.
- SHOWN HAS BEEN BASED UPON INFORMATION SUPPLIED BY SEC DRAWING NO. 1017.D2.001.D01 REV: 03 & 1017.D4.251.101 146083-NWE-HP1537-BUR-05-ULF-STR-DRW-116000-A1-C3 CITY SURVEY LTD: CSGP007435-SU-DRG-004 - 006 WITH TRIAL HOLE INFORMATION

ITEMS REVISED

AREA IN ABEYANCE

01	14.12.2022	TD	JDF	BASE LAYOUT INFORMATION & DRAINAGE UPDATED. NOT CLOUDED FOR CLARITY.	MJT
00	18.01.22	TD	JDF	FIRST ISSUE.	MJT
REV	DATE	DRAWN BY	CHECKED BY	DESCRIPTION	APPROVED BY

OWNER:

RDF ENERGY NO. 1 LTD

TOM LEWIS WAY, ALEXANDRA DOCK
NEWPORT, WALES
UK NP20 2WF
TELEPHONE :+44 01782 384898

SPONSOR:

AVIVA

ST HELEN'S, 1 UNDERSHAFT
LONDON, EC3P 3QD
UK, VAT REG NO. 220227168
TELEPHONE :+44 (0)207 809 6000

PROJECT MANAGER:

CoGen

BLTYE HOUSE, BLYTHE PARK,
CRESSWELL, STOKE ON TRENT,
STAFFORDSHIRE ST11-9RD, UK
TELEPHONE :+44 01782 384898

CONTRACTOR:

SCANDINAVIAN ENERGY CONTRACTOR

GYDEVANG 39-41
DK 3450 ALLERØD, DENMARK
PHONE :+45 3226 8401
EMAIL :WWW.SECONTRACTOR.DK

PROJECT:

NEWPORT ENERGY FROM WASTE PLANT

SUB-CONTRACTOR:

FAIRHURST

ONE HOUSE
WISSEY CRESCENT
WATFORD
WD14 4HP
TELEPHONE :+44 (0)1923 210 460
EMAIL :newport@fairhurst.co.uk

SUBJECT:

SITE DRAINAGE OVERALL LAYOUT

SCALE:

A1 = 1:750
A3 = 1:1500

SEC DWG.NO.:

1017.CO.750.000

PROJECT NO. GR. NO. SHF.

1017.CO.750.000

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1017.CO.750.000

LEGEND:

PROPERTY BOUNDARY
PLANNING BOUNDARY

SURFACE WATER MANHOLE

RAINWATER HARVESTING WATER MANHOLE

SURFACE PUMP STATION

SEPARATOR

PRIVATE SURFACE WATER SEWER

PRIVATE RAINWATER HARVESTING SEWER

SURFACE WATER SEWER RISING MAIN

ROAD GULLY

SURFACE WATER DRAINAGE CHANNEL

SURFACE WATER TRASH BOX

SYPHONIC DOWNPIPES & LATERALS BY SPECIALIST

RAINWATER HARVESTING TANK

LINED LAND DRAIN

POROUS PAVING DRAINAGE CONNECTION UNITS. PERMAVOID - LENGTH & WIDTH TBC

LINED BLOCK POROUS PAVING

KERBDRAIN (ACO OR SIMILAR)

KERB DRAIN ACCESS BOX

CAST IRON OR PCC CONCRETE SEWER

SURFACE WATER INSPECTION CHAMBER (PIC)

EXISTING SURFACE WATER DRAINAGE

ATTENUATION TANK (WEHOLITE)

SURFACE WATER RAIN WATER DOWN PIPE

V=VENTED PIPE
PEN=PENSTOCK
PS=PUMP STATION
VC=VALVE CHAMBER
C=CATCHPIT MANHOLE

PRELIMINARY



ITEMS REVISED

AREA IN ABEYANCE

SW PUMP STATION 01 (PRIVATE SURFACE WATER PUMP STATION).
FIREFIGHTING ALTERNATIVE: TO BE USED IN THE EVENT OF A FIRE SCENARIO, WHICH DISCHARGES TO THE FUEL UNLOADING PIT.
CL 11.007
IL 6.500 (LOWEST INCOMING SEWER=375mm)
BASE IL (BY SPECIALIST)

- E: N =
- DUTY & STANDBY PUMP CONFIGURATION.
- MINIMUM PUMPING RATE TO ACHIEVE SELF CLEANSING VELOCITY IN THE RISING MAIN TO BE INCLUDED BY THE PUMP SPECIALIST.
- PUMP STATION TO BE PUMP SPECIALIST DETAILS. SURROUNDED IN CONCRETE (250mm MINIMUM) FOR PROTECTION.
- DESIGN TO PREVENT FLOATION TBC.
- PUMP TO BE VENTED TO A CONVENIENT LOCATION (INDICATIVELY SHOWN ON LAYOUT).
- ABOVE GROUND KIOSK MAY BE REQUIRED. PUMP SPECIALIST TO CONFIRM.
- PUMP STATION TO BE INSTALLED TO SUIT THE MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.
- CLIMATIC CHANGE: 40%.

DISCHARGE OPTION 1.

- DISCHARGE RATE 12l/s TO SURFACE WATER OUTFALL.
- ATTENUATION VOLUME REQUIRED: 1760M³.

DISCHARGE OPTION 2.

- DISCHARGE RATE 50l/s TO SURFACE WATER OUTFALL.
- ATTENUATION VOLUME REQUIRED: 880M³.

NOTE:

- SURFACE WATER DISCHARGE OFF-SITE TO BE AGREED WITH THE PLANNING AUTHORITY AS WELL AS THE PORT AUTHORITY (ABP).
- SURFACE WATER ATTENUATION TANK DOES NOT INCLUDE DRAINAGE VOLUMES FROM THE FOUL SEWAGE TREATMENT PLANT OR FIREFIGHTING REQUIREMENTS.

SITE INVESTIGATION REQUIRED TO UNDERSTAND IF THE PROPOSED KERB RADI CAN BE BUILT WITHOUT AFFECTING THE EXISTING MANHOLE. CONDITION OF MANHOLE AND COVER SLAB DETAILS ARE REQUIRED TO ASCERTAIN IF MANHOLE IS IN AN ACCEPTABLE CONDITION.

- OTHERWISE A NEW MANHOLE IS REQUIRED, TO EXISTING 225mm \varnothing DRAINAGE:
- TYPE C MANHOLE. 1200 x 675mm (1200mm \varnothing TYPE B MANHOLE CAN BE USED IF CONSTRAINTS TO EXISTING SERVICES ALLOWS).
 - COVER-D400 LOADING.
 - 600mm MINIMUM ROCKER PIPES TO EACH SIDE.
 - INVERT LEVEL TO MATCH THE EXISTING (\approx 8.970m AOD).

SW LINEAR CHANNEL No:01 CL=9.965

BELOW GROUND CELLULAR ATTENUATION TANK (NOT TO SCALE) WEHOLITE OR SIMILAR APPROVED.
VOLUME: 1760m³.
SIZE: (TBC)m² x (TBC)m DEPTH.
SIZE BASED ON 1 IN 100 YEAR PLUS 40% CLIMATE CHANGE EVENT.
SURFACE/GROUND LEVEL VARIES: \approx 11.152m AOD TO \approx 10.106m AOD.
TOP OF TANK= 8.950m AOD
IL OF TANK= 6.750m AOD
TANK DETAILS, INCLUDING MAINTENANCE INSPECTION CHAMBERS, TO SUIT THE MANUFACTURER'S RECOMMENDATIONS/REQUIREMENTS.
NOTE THAT MAINTENANCE INSPECTION CHAMBERS ARE NOT TO BE PLACED IN LOCATIONS OF BALER STORAGE.
NOTE: SURFACE WATER ATTENUATION TANK DOES NOT INCLUDE DRAINAGE VOLUMES FROM THE FOUL SEWAGE TREATMENT PLANT OR FIREFIGHTING REQUIREMENTS.

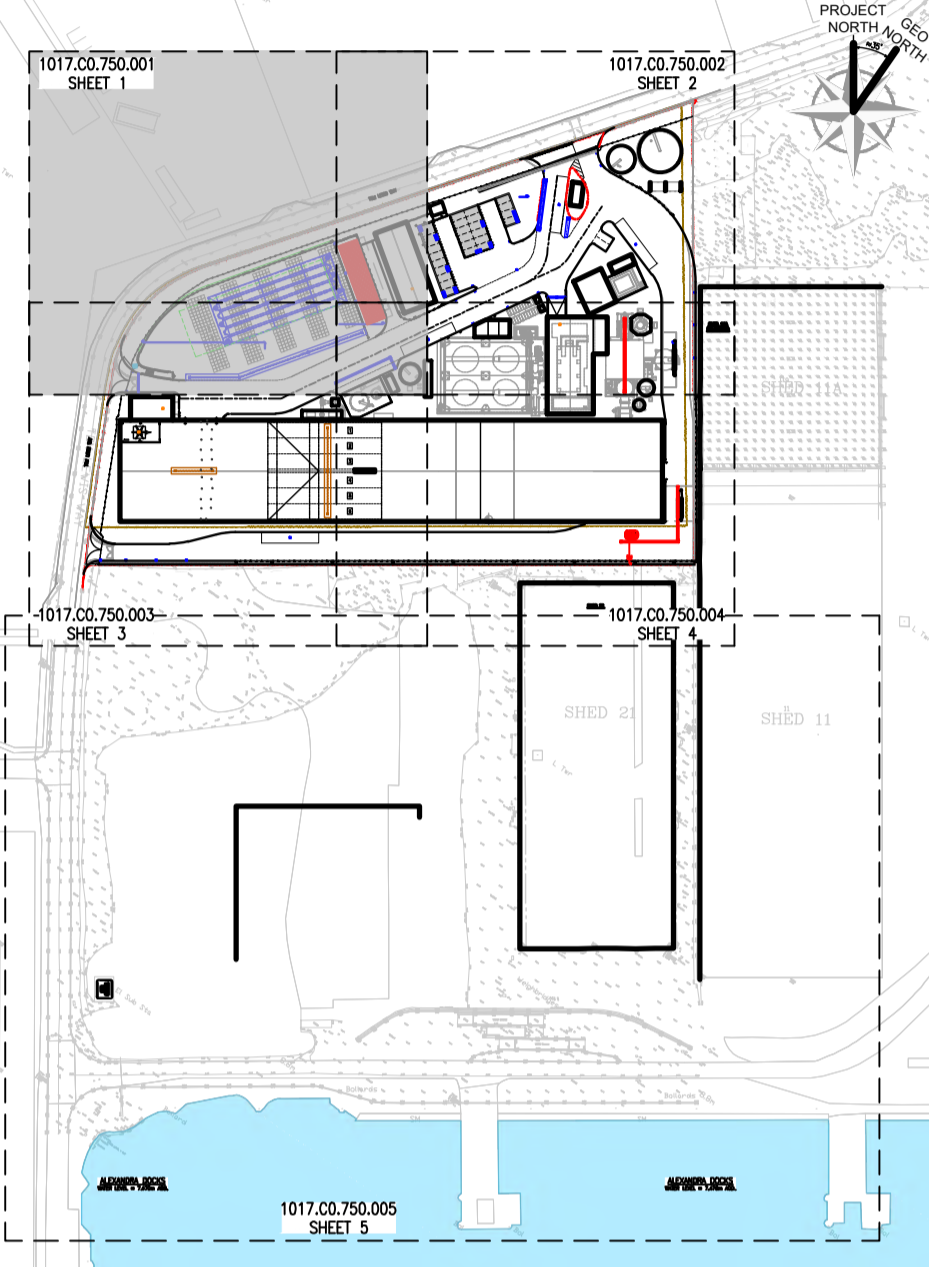





POTENTIAL EXTENTS FOR A BELOW GROUND CELLULAR ATTENUATION TANK OF 1760m³ VOLUME-TBC BY SPECIALIST. WEHOLITE OR SIMILAR APPROVED.
VOLUME: 1760m³ (\approx 800m² X 2.2m).
NOTE THAT MAINTENANCE INSPECTION CHAMBERS ARE NOT TO BE PLACED IN BALER STORAGE LOCATIONS.

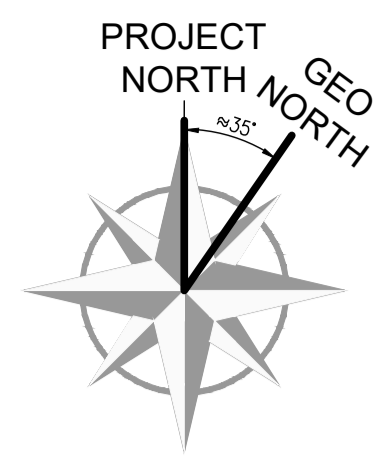
PENSTOCK ACTIVATION ASSUMED TO DIVERT SURFACE WATER DISCHARGE FROM THE BALER AREA TO THE TRADE EFFLUENT TANK IN THE EVENT THAT THE BALER STORAGE DISCHARGE IS 'CONTAMINATED'. THIS MANHOLE IS OVERSIZED TO ACCOMMODATE TWO PENSTOCKS.

THIS PROCESS IS TO BE AGREED WITH SEC.

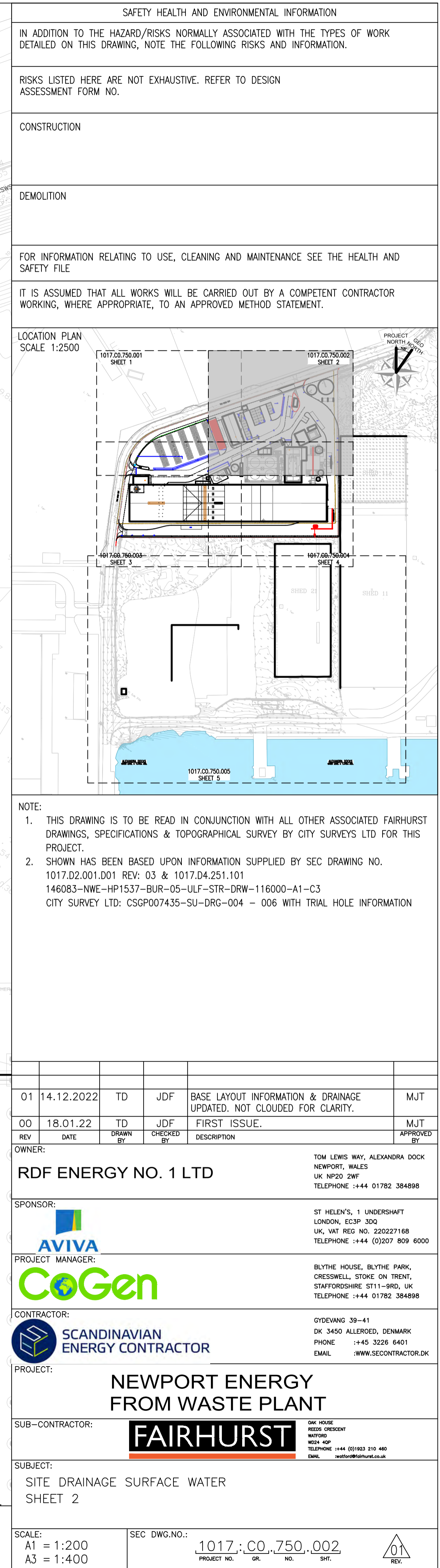
REFER TO THE TRADE EFFLUENT DRAINAGE DRAWING PROPOSALS FOR THE RISING MAIN INFORMATION (FIRE FIGHTING).

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SAFETY HEALTH AND ENVIRONMENTAL INFORMATION					
IN ADDITION TO THE HAZARD/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING RISKS AND INFORMATION.					
RISKS LISTED HERE ARE NOT EXHAUSTIVE. REFER TO DESIGN ASSESSMENT FORM NO.					
CONSTRUCTION					
DEMOLITION					
FOR INFORMATION RELATING TO USE, CLEANING AND MAINTENANCE SEE THE HEALTH AND SAFETY FILE					
IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT.					
LOCATION PLAN SCALE 1:2500					
					
NOTE:					
1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER ASSOCIATED FAIRHURST DRAWINGS, SPECIFICATIONS & TOPOGRAPHICAL SURVEY BY CITY SURVEYS LTD FOR THIS PROJECT.					
2. SHOWN HAS BEEN BASED UPON INFORMATION SUPPLIED BY SEC DRAWING NO. 1017.D2.001.D01 REV: 03 & 1017.D4.251.101					
146083-NWE-HP1537-BUR-05-ULF-STR-DRW-116000-A1-C3					
CITY SURVEY LTD: CSGP007435-SU-DRG-004 - 006 WITH TRIAL HOLE INFORMATION					
01	14.12.2022	TD	JDF	BASE LAYOUT INFORMATION & DRAINAGE UPDATED. NOT CLOUDED FOR CLARITY.	MJT
00	18.01.21	TD	JDF	FIRST ISSUE.	MJT
REV	DATE	DRAWN BY	CHECKED BY	DESCRIPTION	APPROVED BY
OWNER:					
RDF ENERGY NO. 1 LTD				TOM LEWIS WAY, ALEXANDRA DOCK NEWPORT, WALES UK NP20 2WF TELEPHONE :+44 01782 384898	
SPONSOR:					
		ST HELEN'S, 1 UNDERSHAFT LONDON, EC3P 30Q UK, VAT REG NO. 2202227168 TELEPHONE :+44 (0)207 809 6000			
PROJECT MANAGER:					
		BLYTHE HOUSE, BLYTHE PARK, CRESSWELL, STOKES ON TRENT, STAFFORDSHIRE ST11-9RD, UK TELEPHONE :+44 01782 384898			
CONTRACTOR:					
		GYDEWANG 39-41 DK 3450 ALLERØD, DENMARK PHONE :+45 3226 6401 EMAIL :WWW.SECONTRACTOR.DK			
PROJECT:					
NEWPORT ENERGY FROM WASTE PLANT					
SUB-CONTRACTOR:					
				GWL HOUSE RIDEWAY CRESCENT WATFORD MICK HOP TELEPHONE :+44 (0)1923 210 440 EMAIL :info@fairhurst.co.uk	
SUBJECT:					
SITE DRAINAGE SURFACE WATER SHEET 1					
SCALE:					
A1 = 1:200 A3 = 1:400					
SEC DWG.NO.:					
1017.CO.750.001					
PROJECT NO. GR. NO. SH.					
					



AREA IN ABEYANCE



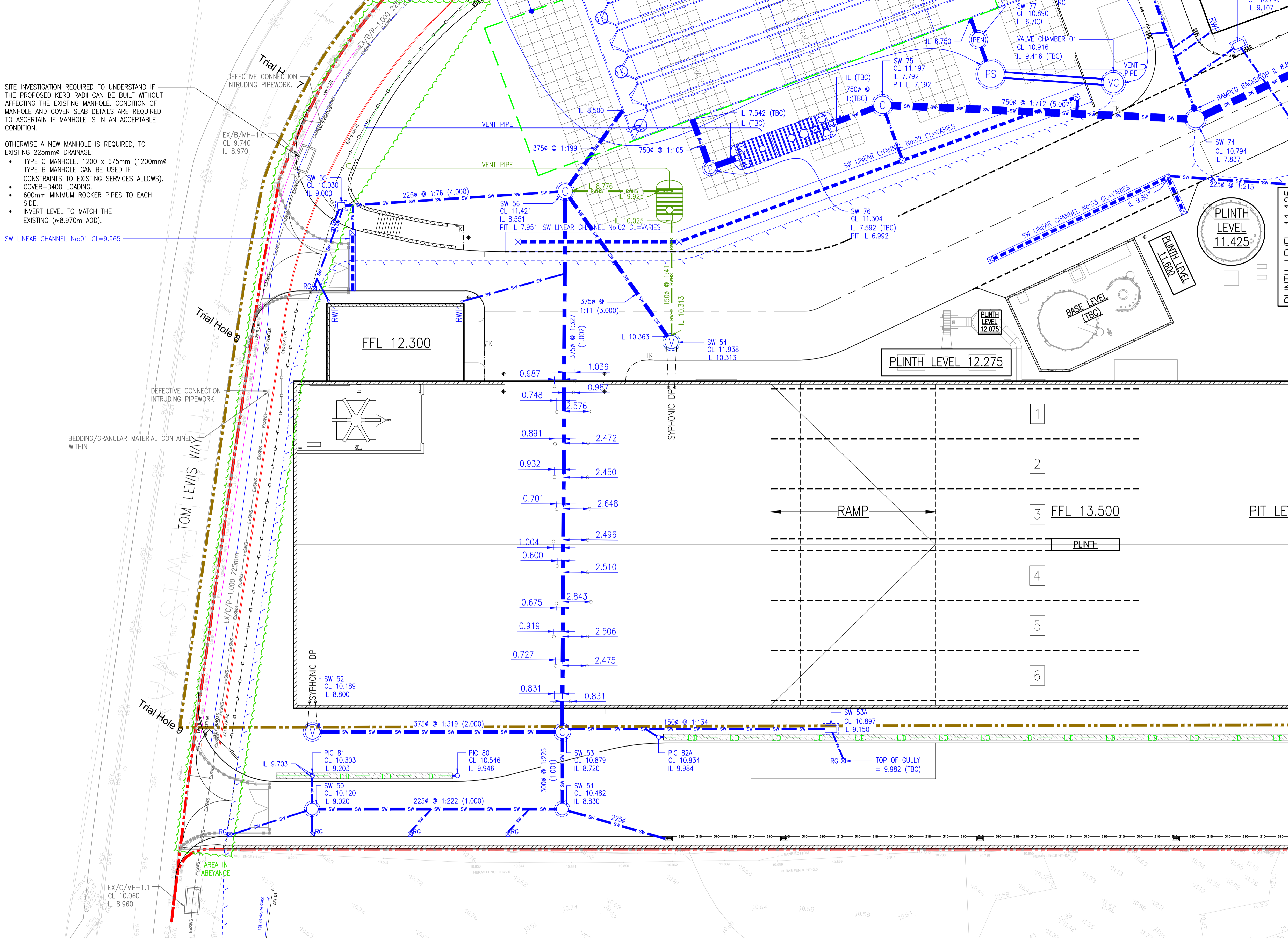
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WAY MADE AVAILABLE TO A THIRD PARTY WITHOUT WRITTEN CONSENT FROM SEC

SITE INVESTIGATION REQUIRED TO UNDERSTAND IF THE PROPOSED KERB RADI CAN BE BUILT WITHOUT AFFECTING THE EXISTING MANHOLE. CONDITION OF MANHOLE AND COVER SLAB DETAILS ARE REQUIRED TO ASCERTAIN IF MANHOLE IS IN AN ACCEPTABLE CONDITION.

OTHERWISE A NEW MANHOLE IS REQUIRED, TO EXISTING 225mmØ DRAINAGE:

- TYPE C MANHOLE. 1200 x 675mm (1200mmØ TYPE B MANHOLE CAN BE USED IF CONSTRAINTS TO EXISTING SERVICES ALLOWS).
- COVER-D400 LOADINGS.
- 600mm MINIMUM ROCKER PIPES TO EACH SIDE.
- INVERT LEVEL TO MATCH THE EXISTING (≈8.970m AOD).

SW LINEAR CHANNEL No:01 CL=9.965

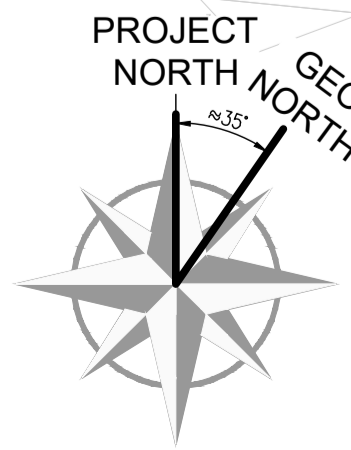


LEGEND:			
	PROPERTY BOUNDARY		SURFACE WATER SEWER RISING MAIN
	PLANNING BOUNDARY		ROAD GULLY
	SURFACE WATER MANHOLE		SURFACE WATER DRAINAGE CHANNEL
	RAINWATER HARVESTING WATER MANHOLE		SURFACE WATER TRASH BOX
	SURFACE PUMP STATION		SYPHONIC DOWNPIPES & LATERALS BY SPECIALIST
	SEPARATOR		RAINWATER HARVESTING TANK
	PRIVATE SURFACE WATER SEWER		LINED LAND DRAIN
	PRIVATE RAINWATER HARVESTING SEWER		POROUS PAVING DRAINAGE CONNECTION UNITS, PERMAVOID - LENGTH & WIDTH TBC
			KERBSIDE DRAIN (ACO OR SIMILAR)
			KERB DRAIN ACCESS BOX
			CAST IRON OR PCC CONCRETE SEWER
			SURFACE WATER INSPECTION CHAMBER (PIC)
			EXISTING SURFACE WATER DRAINAGE
			ATTENUATION TANK (WEHOLUTE)
			RWP
			SURFACE WATER RAIN WATER DOWN PIPE
			<ul style="list-style-type: none">V=VENTED PIPEPEN=PENSTOCKPS=PUMP STATIONVC=VALVE CHAMBERC=CATCHPIT MANHOLE

ITEMS REVISED

AREA IN ABEYANCE

PRELIMINARY



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SAFETY HEALTH AND ENVIRONMENTAL INFORMATION

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RISKS LISTED HERE ARE NOT EXHAUSTIVE. REFER TO DESIGN ASSESSMENT FORM NO.

CONSTRUCTION

DEMOLITION

FOR INFORMATION RELATING TO USE, CLEANING AND MAINTENANCE SEE THE HEALTH AND SAFETY FILE

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT.

LOCATION PLAN

SCALE 1:2500

NOTE:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER ASSOCIATED FAIRHURST DRAWINGS, SPECIFICATIONS & TOPOGRAPHICAL SURVEY BY CITY SURVEYS LTD FOR THIS PROJECT.

2. SHOWN HAS BEEN BASED UPON INFORMATION SUPPLIED BY SEC DRAWING NO. 1017.D2.001.D01 REV: 03 & 1017.D4.251.101 146083-NWE-HP1537-BUR-05-ULF-STR-DRW-116000-A1-C3 CITY SURVEY LTD: CSCP007435-SU-DRG-004 - 006 WITH TRIAL HOLE INFORMATION

01	14.12.2022	TD	JDF	BASE LAYOUT INFORMATION & DRAINAGE UPDATED. NOT CLOUDED FOR CLARITY.	MJT
00	18.01.22	TD	JDF	FIRST ISSUE.	MJT
REV	DATE	DRAWN BY	CHECKED BY	DESCRIPTION	APPROVED BY

OWNER:

RDF ENERGY NO. 1 LTD

SPONSOR:

PROJECT MANAGER:

CONTRACTOR:

SUB-CONTRACTOR:

SUBJECT:

SITE DRAINAGE SURFACE WATER SHEET 3

SCALE:

A1 = 1:200
A3 = 1:400

SEC DWG.NO.:

1017.CO.750.003

PROJECT NO. GR. NO. SHEET.

OWNER:

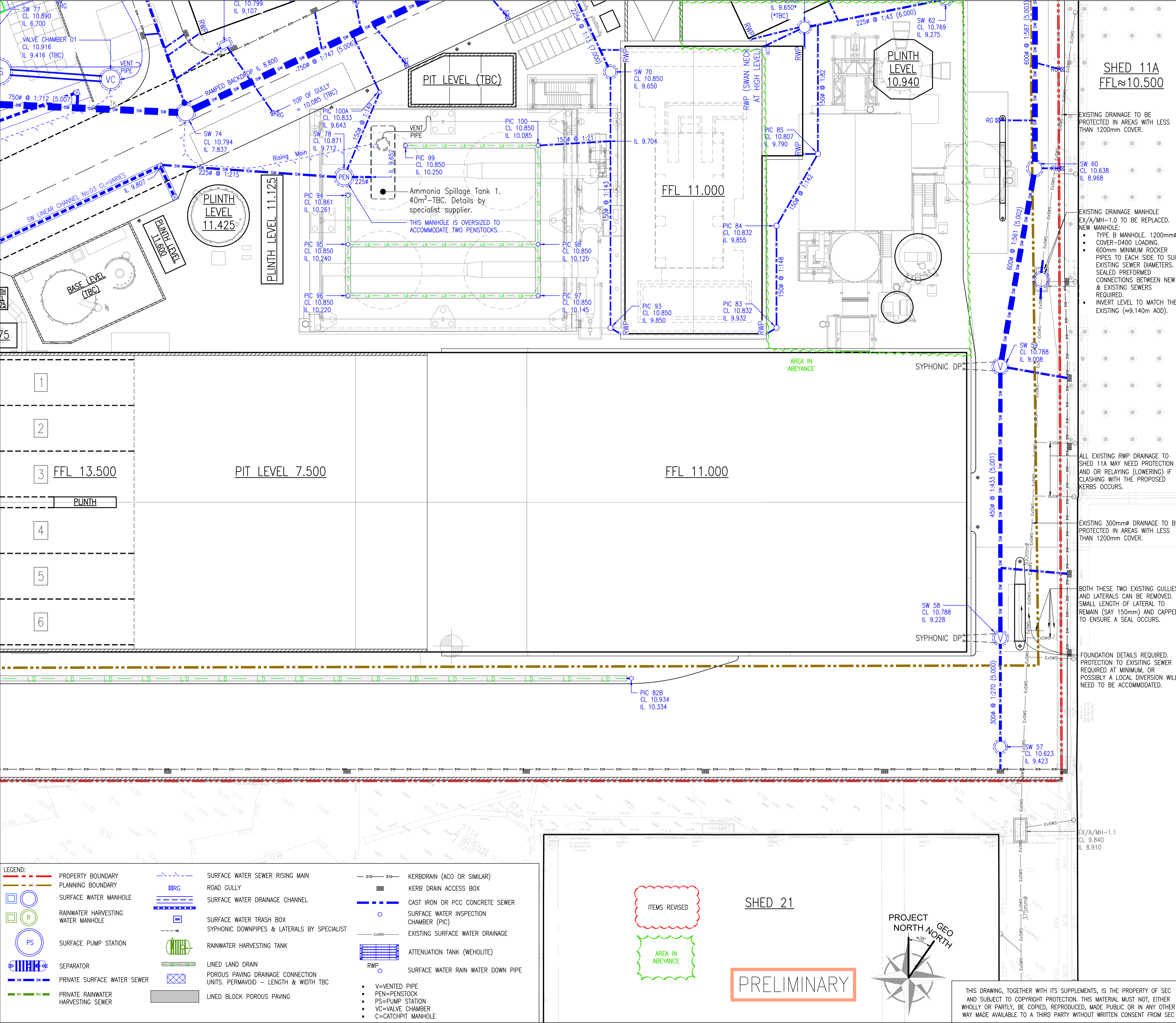
TOM LEWIS WAY, ALEXANDRA DOCK NEWPORT, WALES UK NP20 2WF TELEPHONE +44 01782 384898

ST HELEN'S, 1 UNDERSHAFT LONDON, EC3P 300 UK. VAT REG NO. 220227168 TELEPHONE +44 (0)207 809 6000

BLTYHE HOUSE, BLYTHE PARK, CRESSWELL, STOKE ON TRENT, STAFFORDSHIRE ST11-9RD, UK TELEPHONE +44 01782 384898

GYDEWANG 39-41 DK 3450 ALLERØD, DENMARK PHONE +45 3226 8401 EMAIL WWW.SECONTRACTOR.DK

ONE HOUSE, WOODS GREEN, WATFORD, MIDDLESEX, UK TELEPHONE +44 (0)1923 210 460 EMAIL newton@fairhurst.co.uk



SAFETY HEALTH AND ENVIRONMENTAL INFORMATION

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CONSTRUCTION

DEMOLITION

FOR INFORMATION RELATING TO USE, CLEANING AND MAINTENANCE SEE THE HEALTH AND SAFETY FILE

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LOCATION PLAN SCALE 1:2500

NOTE:

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER ASSOCIATED FAIRHURST DRAWINGS, SPECIFICATIONS & TOPOGRAPHICAL SURVEY BY CITY SURVEYS LTD FOR THIS PROJECT.
- SHOWN HAS BEEN BASED UPON INFORMATION SUPPLIED BY SEC DRAWING NO. 1017.02.001.D01 REV: 03 & 1017.04.251.101 146083-NWE-HP1537-BUR-05-ULF-STR-DRAW-116000-A1-C3 CITY SURVEY LTD: CSGP007435-SU-DRG-004 - 006 WITH TRIAL HOLE INFORMATION

1017.CO.750.004

01	14.12.2022	TD	JDF	BASE LAYOUT INFORMATION & DRAINAGE UPDATED. NOT CLOUDED FOR CLARITY.	MJT
00	18.01.22	TD	JDF	FIRST ISSUE.	MJT
REV	DATE	DRAWN BY	CHECKED BY	DESCRIPTION	APPROVED BY

OWNER:

RDF ENERGY NO. 1 LTD

SPONSOR:

PROJECT MANAGER:

CONTRACTOR:

SUB-CONTRACTOR:

SUBJECT:

SCALE:

SEC DWG.NO.:

ITEMS REVISED

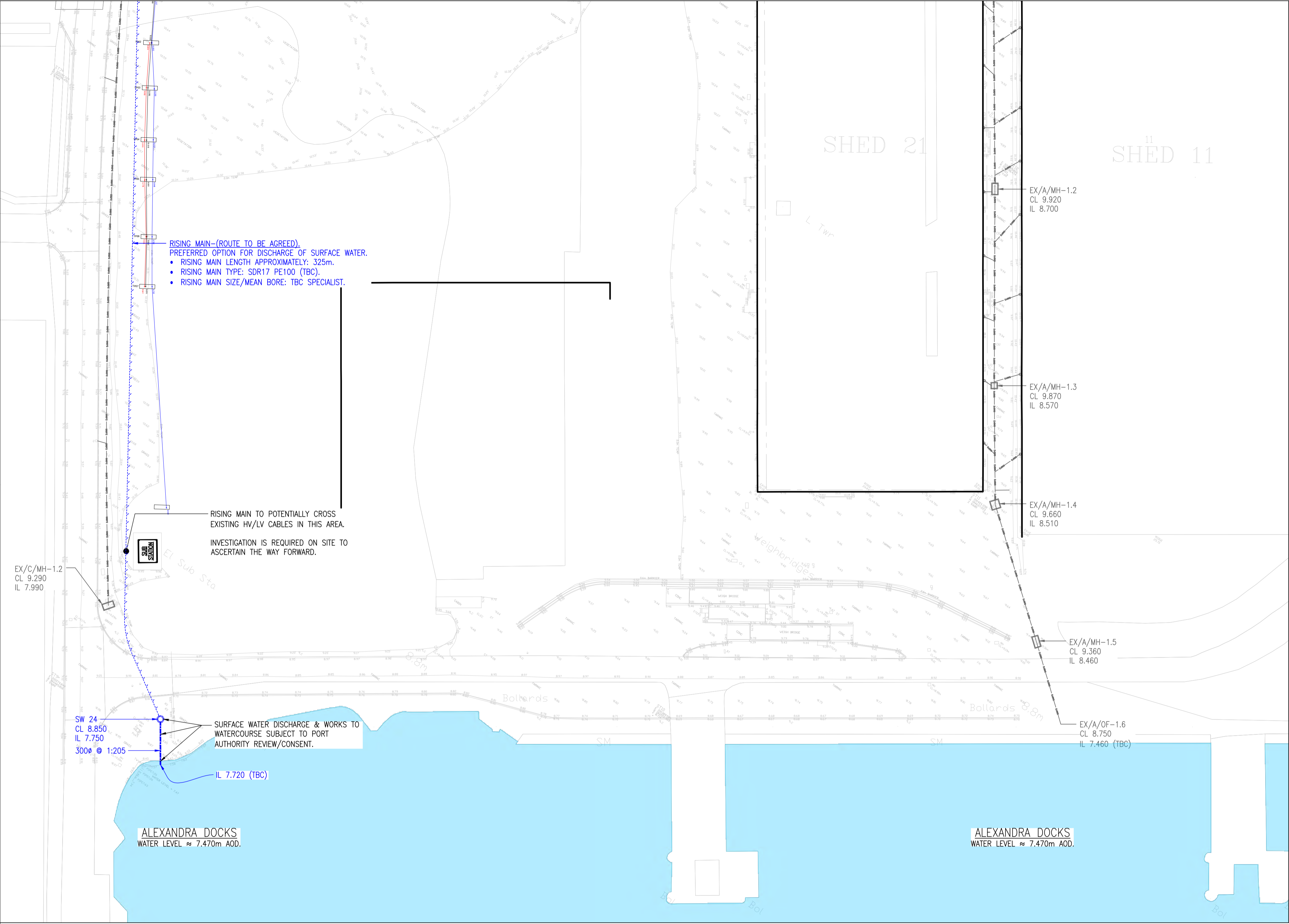
AREA IN ABEYANCE

SHED 21

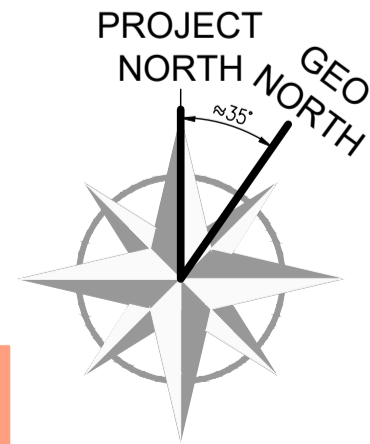
PRELIMINARY

PROJECT NORTH

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LEGEND:			
	PROPERTY BOUNDARY		SURFACE WATER SEWER RISING MAIN
	PLANNING BOUNDARY		ROAD GULLY
	SURFACE WATER MANHOLE		SURFACE WATER DRAINAGE CHANNEL
	RAINWATER HARVESTING WATER MANHOLE		SURFACE WATER TRASH BOX
	SURFACE PUMP STATION		SYPHONIC DOWNPIPES & LATERALS BY SPECIALIST
	SEPARATOR		RAINWATER HARVESTING TANK
	PRIVATE SURFACE WATER SEWER		LINED LAND DRAIN
	PRIVATE RAINWATER HARVESTING SEWER		POROUS PAVING DRAINAGE CONNECTION UNITS, PERMAVOID - LENGTH & WIDTH TBC
			LINED BLOCK POROUS PAVING
			KERBRAIN (ACO OR SIMILAR)
			KERB DRAIN ACCESS BOX
			CAST IRON OR PCC CONCRETE SEWER
			SURFACE WATER INSPECTION CHAMBER (PIC)
			EXISTING SURFACE WATER DRAINAGE
			ATTENUATION TANK (WEHOLITE)
			RWP
			SURFACE WATER RAIN WATER DOWN PIPE
			<ul style="list-style-type: none">• V=VENTED PIPE• PEN=PENSTOCK• PS=PUMP STATION• VC=VALVE CHAMBER• C=CATCHPIT MANHOLE



PRELIMINARY

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SAFETY HEALTH AND ENVIRONMENTAL INFORMATION					
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CONSTRUCTION					
DEMOLITION					
FOR INFORMATION RELATING TO USE, CLEANING AND MAINTENANCE SEE THE HEALTH AND SAFETY FILE					
IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT.					
LOCATION PLAN SCALE 1:2500					
NOTE: 1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER ASSOCIATED FAIRHURST DRAWINGS, SPECIFICATIONS & TOPOGRAPHICAL SURVEY BY CITY SURVEYS LTD FOR THIS PROJECT. 2. SHOWN HAS BEEN BASED UPON INFORMATION SUPPLIED BY SEC DRAWING NO. 1017.D2.001.D01 REV: 03 & 1017.D4.251.101 146083-NWE-HP1537-BUR-05-ULF-STR-DRW-116000-A1-C3 CITY SURVEY LTD: CSGP007435-SU-DRG-004 - 006 WITH TRIAL HOLE INFORMATION					
01	14.12.2022	TD	JDF	BASE LAYOUT INFORMATION & DRAINAGE UPDATED. NOT CLOUDED FOR CLARITY.	MJT
00	18.01.22	TD	JDF	FIRST ISSUE.	MJT
REV	DATE	DRAWN BY	CHECKED BY	DESCRIPTION	APPROVED BY
OWNER:				TOM LEWIS WAY, ALEXANDRA DOCK NEWPORT, WALES UK NP20 2WF TELEPHONE :+44 01782 384898	
RDf ENERGY NO. 1 LTD					
SPONSOR:				ST HELEN'S, 1 UNDERSHAFT LONDON, EC3P 3QD UK, VAT REG NO. 220227168 TELEPHONE :+44 (0)207 809 6000	
PROJECT MANAGER:				BLYTHE HOUSE, BLYTHE PARK, CRESSWELL, STOKE ON TRENT, STAFFORDSHIRE ST11-9RD, UK TELEPHONE :+44 01782 384898	
CONTRACTOR:				GYNDEWANG 39-41 DK 3450 ALLERØD, DENMARK PHONE :+45 3226 6401 EMAIL :WWW.SECONTRACTOR.DK	
SCANDINAVIAN ENERGY CONTRACTOR					
PROJECT:				NEWPORT ENERGY FROM WASTE PLANT	
SUB-CONTRACTOR:				FAIRHURST ONE HOUSE WILSON CRESCENT WATFORD MID4 4HP TELEPHONE :+44 (0)1923 210 460 EMAIL :newport@fairhurst.co.uk	
SUBJECT:				SITE DRAINAGE SURFACE WATER SHEET 5	
SCALE:		SEC DWG.NO.:		1017.CO.750.005	
A1 = 1:500				PROJECT NO. GR. NO. SH.	
A3 = 1:1000				1017.CO.750.005	
				REV.	

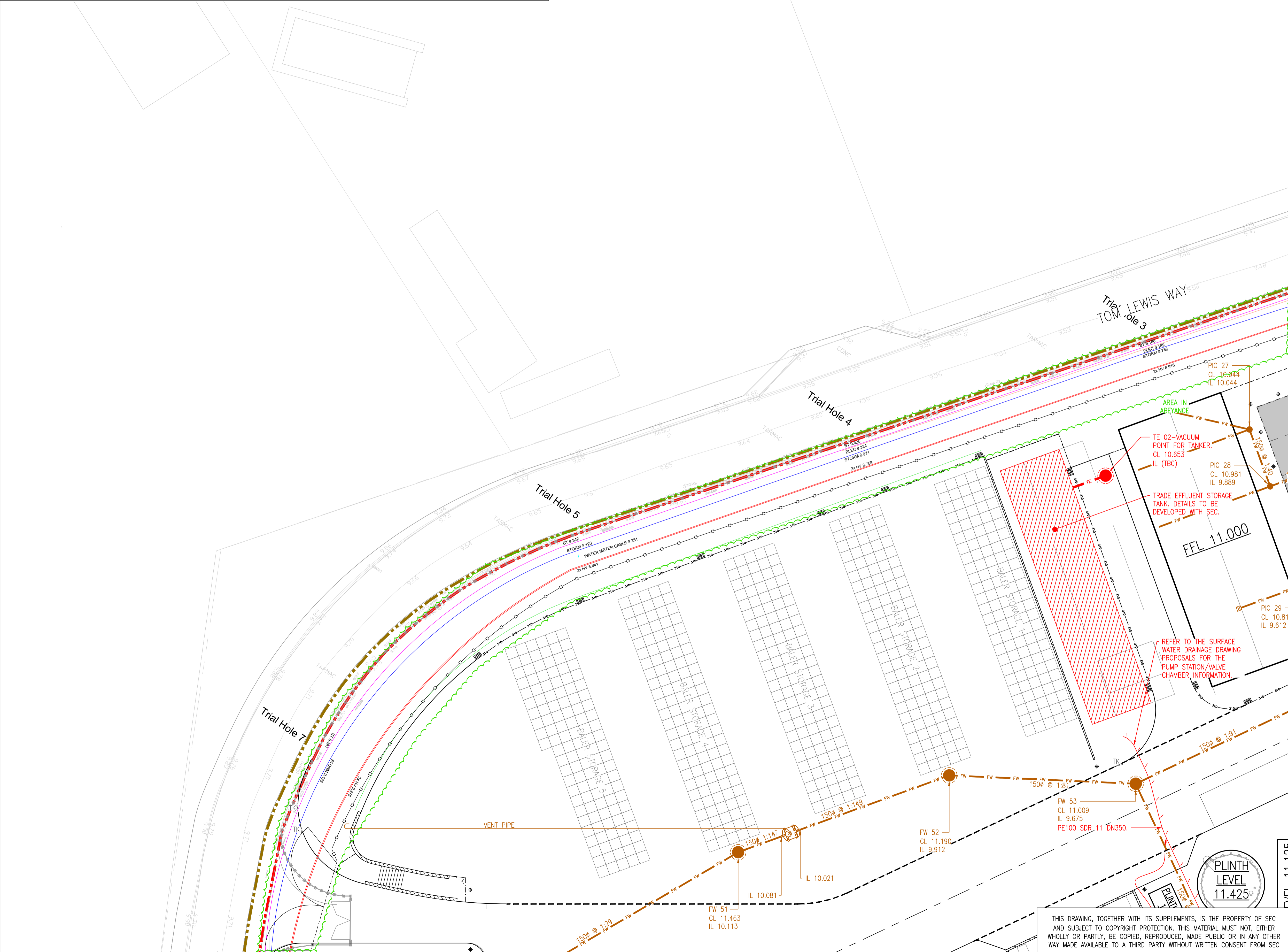
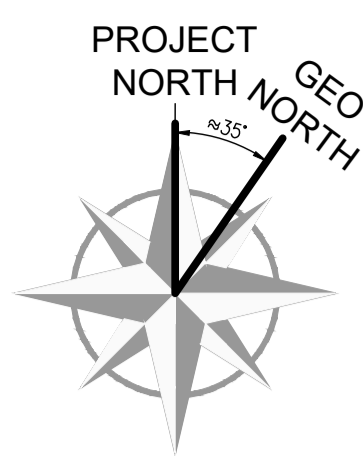
1017.CO.750.005

LEGEND:			
	PROPERTY BOUNDARY		FOUL GULLY (INTERNAL)
	PLANNING BOUNDARY		FOUL GULLY (EXTERNAL)
	FOUL WATER MANHOLE		SOIL VENT PIPE (SVP)
	TRADE EFFLUENT WATER MANHOLE		STUB STACK (SS)
	PRIVATE FOUL WATER SEWER		FOUL INSPECTION CHAMBER (PIC)
	PRIVATE TRADE EFFLUENT SEWER		TRADE EFFLUENT DRAINAGE CHANNEL
	FOUL WATER RISING MAIN		TRADE EFFLUENT TRASH BOX
	TRADE EFFLUENT RISING MAIN		TRADE EFFLUENT GULLY (EXTERNAL)
	SEPARATOR		TRADE EFFLUENT GULLY (INTERNAL)
	FOUL LINEAR DRAINAGE CHANNEL		TRADE EFFLUENT STORAGE TANK
	TRADE EFFLUENT STORAGE TANK		FOUL TREATMENT PLANT
	TRADE EFFLUENT STORAGE TANK (DETAILS TO BE DEVELOPED WITH SEC)		

ITEMS REVISED

AREA IN ABEYANCE

PRELIMINARY



SAFETY HEALTH AND ENVIRONMENTAL INFORMATION

IN ADDITION TO THE HAZARD/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING RISKS AND INFORMATION.

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CONSTRUCTION

DEMOLITION

FOR INFORMATION RELATING TO USE, CLEANING AND MAINTENANCE SEE THE HEALTH AND SAFETY FILE

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LOCATION PLAN
SCALE 1:2500

NOTE:
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146083-NWE-HP1537-BUR-05-ULF-STR-DRW-116000-A1-C3
CITY SURVEY LTD: CSGP007435-SU-DRG-004 - 006 WITH TRIAL HOLE INFORMATION

02	14.12.2022	TD	JDF	BASE LAYOUT INFORMATION & DRAINAGE UPDATED. NOT CLOUDED FOR CLARITY.	MJT
01	18.01.22	TD	JDF	BASE LAYOUT INFORMATION UPDATED. PROPOSALS AMENDED AS REQUIRED.	MJT
00	07.12.2021	TD	JDF	FIRST ISSUE.	MJT
REV	DATE	DRAWN BY	CHECKED BY	DESCRIPTION	APPROVED BY

OWNER:

RDF ENERGY NO. 1 LTD

OWNER:

TOM LEWIS WAY, ALEXANDRA DOCK
NEWPORT, WALES
UK NP20 2WF
TELEPHONE :+44 01782 384898

SPONSOR:

AVIVA

PROJECT MANAGER:

CoGen

CONTRACTOR:

SCANDINAVIAN ENERGY CONTRACTOR

PROJECT:

NEWPORT ENERGY FROM WASTE PLANT

SUB-CONTRACTOR:

FAIRHURST

SUBJECT:

SITE DRAINAGE FOUL & TRADE EFFLUENT SHEET 1

SCALE:

A1 = 1:200
A3 = 1:400

SEC DWG.NO.:

1017.CO.750.011

PROJECT NO. GR. NO. SHE. REV.

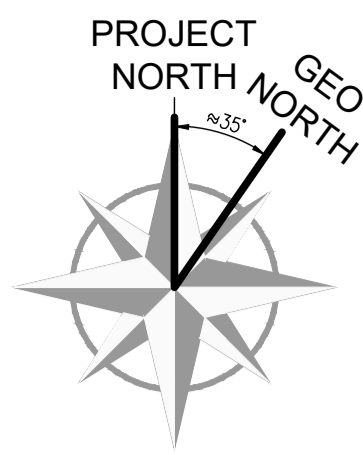
02

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1017.CO.750.011

LEGEND:

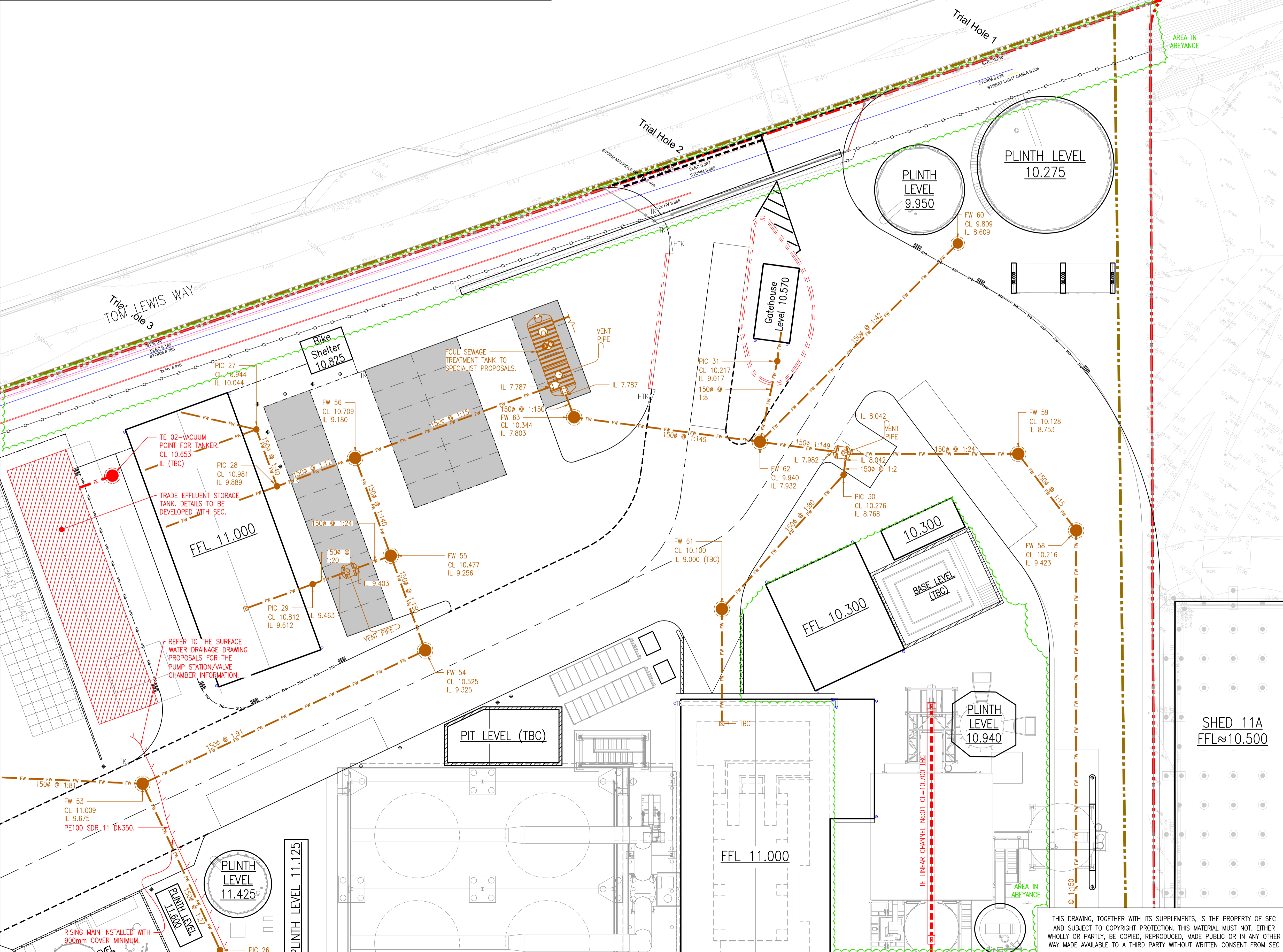
PROPERTY BOUNDARY	FOUL GULLY (INTERNAL)	FOUL LINEAR DRAINAGE CHANNEL
PLANNING BOUNDARY	FOUL GULLY (EXTERNAL)	TRADE EFFLUENT STORAGE TANK
FOUL WATER MANHOLE	SOIL VENT PIPE (SVP)	FOUL TREATMENT PLANT
TRADE EFFLUENT WATER MANHOLE	STUB STACK (SS)	TRADE EFFLUENT STORAGE TANK (DETAILS TO BE DEVELOPED WITH SEC)
PRIVATE FOUL WATER SEWER	FOUL INSPECTION CHAMBER (PIC)	
PRIVATE TRADE EFFLUENT SEWER	TRADE EFFLUENT DRAINAGE CHANNEL	
FOUL WATER RISING MAIN	TRADE EFFLUENT TRASH BOX	
TRADE EFFLUENT RISING MAIN	TRADE EFFLUENT GULLY (EXTERNAL)	
SEPARATOR	TRADE EFFLUENT GULLY (INTERNAL)	



PRELIMINARY

ITEMS REVISED

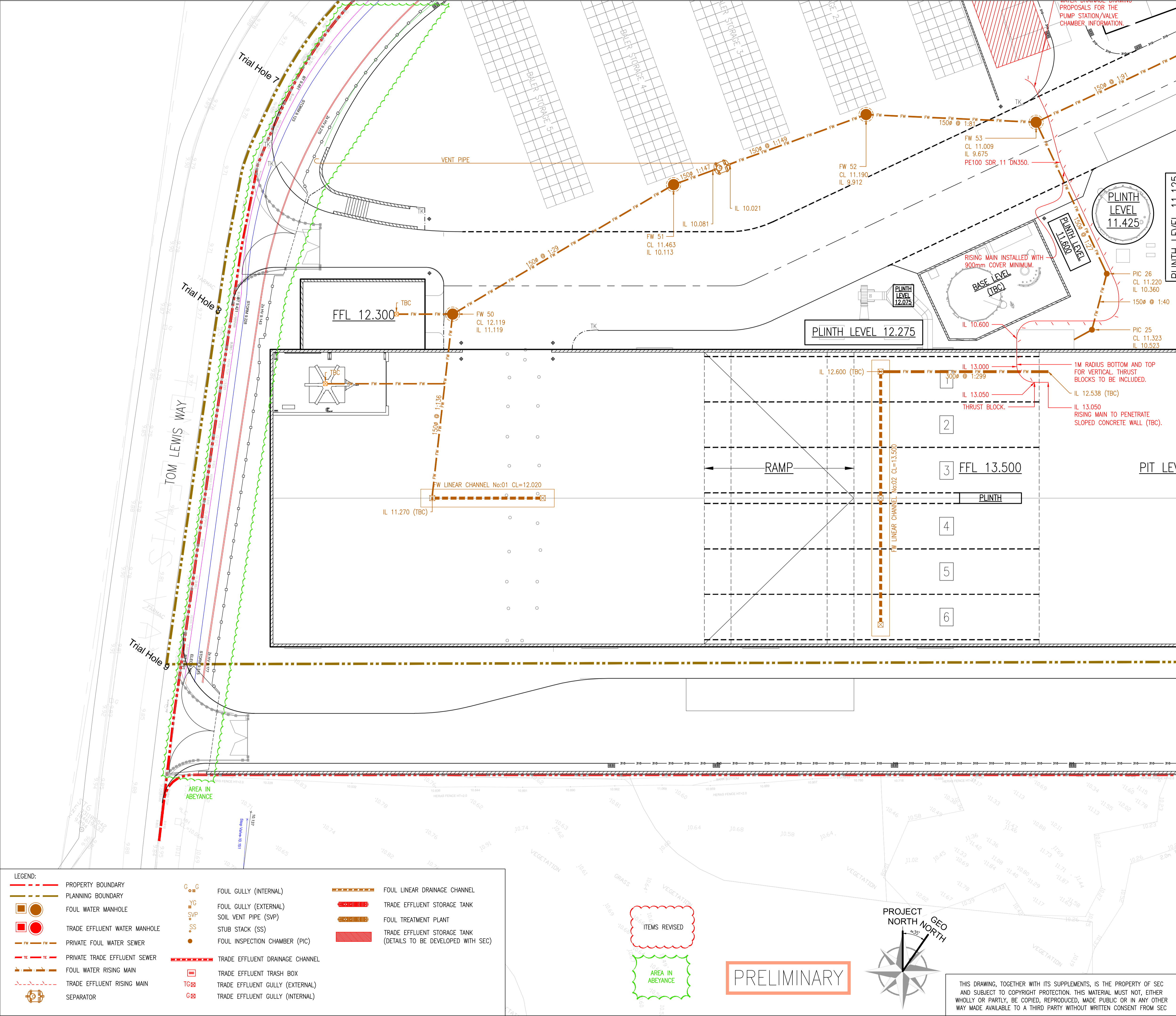
AREA IN ABEYANCE



SAFETY HEALTH AND ENVIRONMENTAL INFORMATION					
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RISKS LISTED HERE ARE NOT EXHAUSTIVE. REFER TO DESIGN ASSESSMENT FORM NO.					
CONSTRUCTION					
DEMOLITION					
FOR INFORMATION RELATING TO USE, CLEANING AND MAINTENANCE SEE THE HEALTH AND SAFETY FILE					
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LOCATION PLAN SCALE 1:2500					
NOTE: 1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER ASSOCIATED FAIRHURST DRAWINGS, SPECIFICATIONS & TOPOGRAPHICAL SURVEY BY CITY SURVEYS LTD FOR THIS PROJECT. 2. SHOWN HAS BEEN BASED UPON INFORMATION SUPPLIED BY SEC DRAWING NO. 1017.D2.001.D01 REV: 03 & 1017.D4.251.101 146083-NWE-HP1537-BUR-05-ULF-STR-DRAW-116000-A1-C3 CITY SURVEY LTD: CSGP007435-SU-DRG-004 - 006 WITH TRIAL HOLE INFORMATION					
02	14.12.2022	TD	JDF	BASE LAYOUT INFORMATION & DRAINAGE UPDATED. NOT CLOUDED FOR CLARITY.	MJT
01	18.01.22	TD	JDF	BASE LAYOUT INFORMATION UPDATED. PROPOSALS AMENDED AS REQUIRED.	MJT
00	07.12.2021	TD	JDF	FIRST ISSUE.	MJT
REV	DATE	DRAWN BY	CHECKED BY	DESCRIPTION	APPROVED BY
OWNER: RDF ENERGY NO. 1 LTD TOM LEWIS WAY, ALEXANDRA DOCK NEWPORT, WALES UK NP20 2WF TELEPHONE :+44 01782 384898					
SPONSOR: AVIVA PROJECT MANAGER: CoGen ST HELEN'S, 1 UNDERSHAFT LONDON, EC3P 3QD UK VAT REG NO: 220227168 TELEPHONE :+44 (0)207 809 6000					
CONTRACTOR: SCANDINAVIAN ENERGY CONTRACTOR GYDEWANG 39-41 DK 3450 ALEKROD, DENMARK PHONE :+45 3226 8401 EMAIL :WWW.SECONTRACTOR.DK					
PROJECT: NEWPORT ENERGY FROM WASTE PLANT					
SUB-CONTRACTOR: FAIRHURST ONE HOUSE WISSE GREEN WATFORD MIDX HP8 4HP TELEPHONE :+44 (0)1923 210 460 EMAIL :newport@fairhurst.co.uk					
SUBJECT: SITE DRAINAGE FOUL & TRADE EFFLUENT SHEET 2					
SCALE: A1 = 1:200 A3 = 1:400		SEC DWG.NO.: 1017.CO.750.012 PROJECT NO. GR. NO. SHE. REV.			

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1017.CO.750.012



SAFETY HEALTH AND ENVIRONMENTAL INFORMATION

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CONSTRUCTION

DEMOLITION

FOR INFORMATION RELATING TO USE, CLEANING AND MAINTENANCE SEE THE HEALTH AND SAFETY FILE

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LOCATION PLAN SCALE 1:2500

NOTE:
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2. SHOWN HAS BEEN BASED UPON INFORMATION SUPPLIED BY SEC DRAWING NO. 1017.D2.001.D01 REV: 03 & 1017.D4.251.101
146083-NWE-HP1537-BUR-05-ULF-STR-DRW-116000-A1-C3
CITY SURVEY LTD: CSGP007435-SU-DRG-004 - 006 WITH TRIAL HOLE INFORMATION

NOT YET ISSUED AS REVISION 01

02	14.12.2022	TD	JDF	BASE LAYOUT INFORMATION & DRAINAGE UPDATED. NOT CLOUDED FOR CLARITY.	MJT
01	18.01.22	TD	JDF	BASE LAYOUT INFORMATION UPDATED. PROPOSALS AMENDED AS REQUIRED.	MJT
00	07.12.2021	TD	JDF	FIRST ISSUE.	MJT
REV	DATE	DRAWN BY	CHECKED BY	DESCRIPTION	APPROVED BY

OWNER:
TOM LEWIS WAY, ALEXANDRA DOCK
NEWPORT, WALES
UK NP20 2WF
TELEPHONE :+44 01782 384898

SPONSOR:

PROJECT MANAGER:

CONTRACTOR:

SUB-CONTRACTOR:

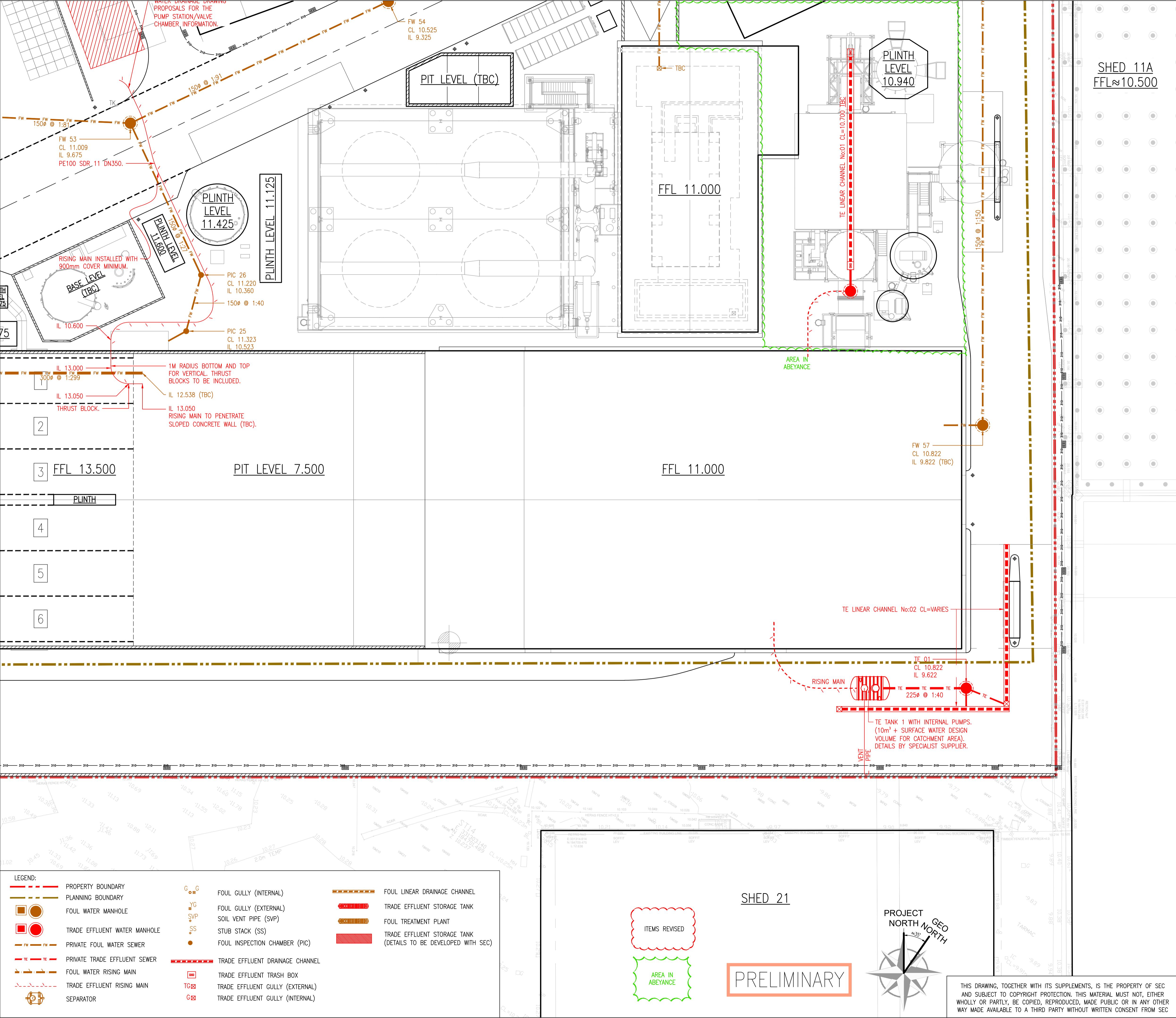
SUBJECT:
SITE DRAINAGE FOUL & TRADE EFFLUENT
SHEET 3

SCALE:
A1 = 1:200
A3 = 1:400

SEC DWG.NO.:
1017.CO.750.013
PROJECT NO. GR. NO. SHE. REV.

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1017.CO.750.013



SAFETY HEALTH AND ENVIRONMENTAL INFORMATION

IN ADDITION TO THE HAZARD/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING RISKS AND INFORMATION.

RISKS LISTED HERE ARE NOT EXHAUSTIVE. REFER TO DESIGN ASSESSMENT FORM NO.

CONSTRUCTION

DEMOLITION

FOR INFORMATION RELATING TO USE, CLEANING AND MAINTENANCE SEE THE HEALTH AND SAFETY FILE

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT.

LOCATION PLAN
SCALE 1:2500

NOTE:

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER ASSOCIATED FAIRHURST DRAWINGS, SPECIFICATIONS & TOPOGRAPHICAL SURVEY BY CITY SURVEYS LTD FOR THIS PROJECT.
- SHOWN HAS BEEN BASED UPON INFORMATION SUPPLIED BY SEC DRAWING NO. 1017.D2.001.D01 REV: 03 & 1017.D4.251.101 146083-NWE-HP1537-BUR-05-ULF-STR-DRW-116000-A1-C3 CITY SURVEY LTD: CSGP007435-SU-DRG-004 - 006 WITH TRIAL HOLE INFORMATION

02	14.12.2022	TD	JDF	BASE LAYOUT INFORMATION & DRAINAGE UPDATED. NOT CLOUDED FOR CLARITY.	MJT
01	18.01.22	TD	JDF	BASE LAYOUT INFORMATION UPDATED. PROPOSALS AMENDED AS REQUIRED.	MJT
00	07.12.2021	TD	JDF	FIRST ISSUE.	MJT
REV	DATE	DRAWN BY	CHECKED BY	DESCRIPTION	APPROVED BY

OWNER:

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TELEPHONE :+44 01782 384898

SPONSOR:

AVIVA

PROJECT MANAGER:

CoGen

CONTRACTOR:

SCANDINAVIAN ENERGY CONTRACTOR

SUB-CONTRACTOR:

FAIRHURST

SUBJECT:

SITE DRAINAGE FOUL & TRADE EFFLUENT
SHEET 4

SCALE:

A1 = 1:200
A3 = 1:400

SEC DWG.NO.:

1017.CO.750.014
PROJECT NO. GR. NO. SHEET

REV.

1017.CO.750.014