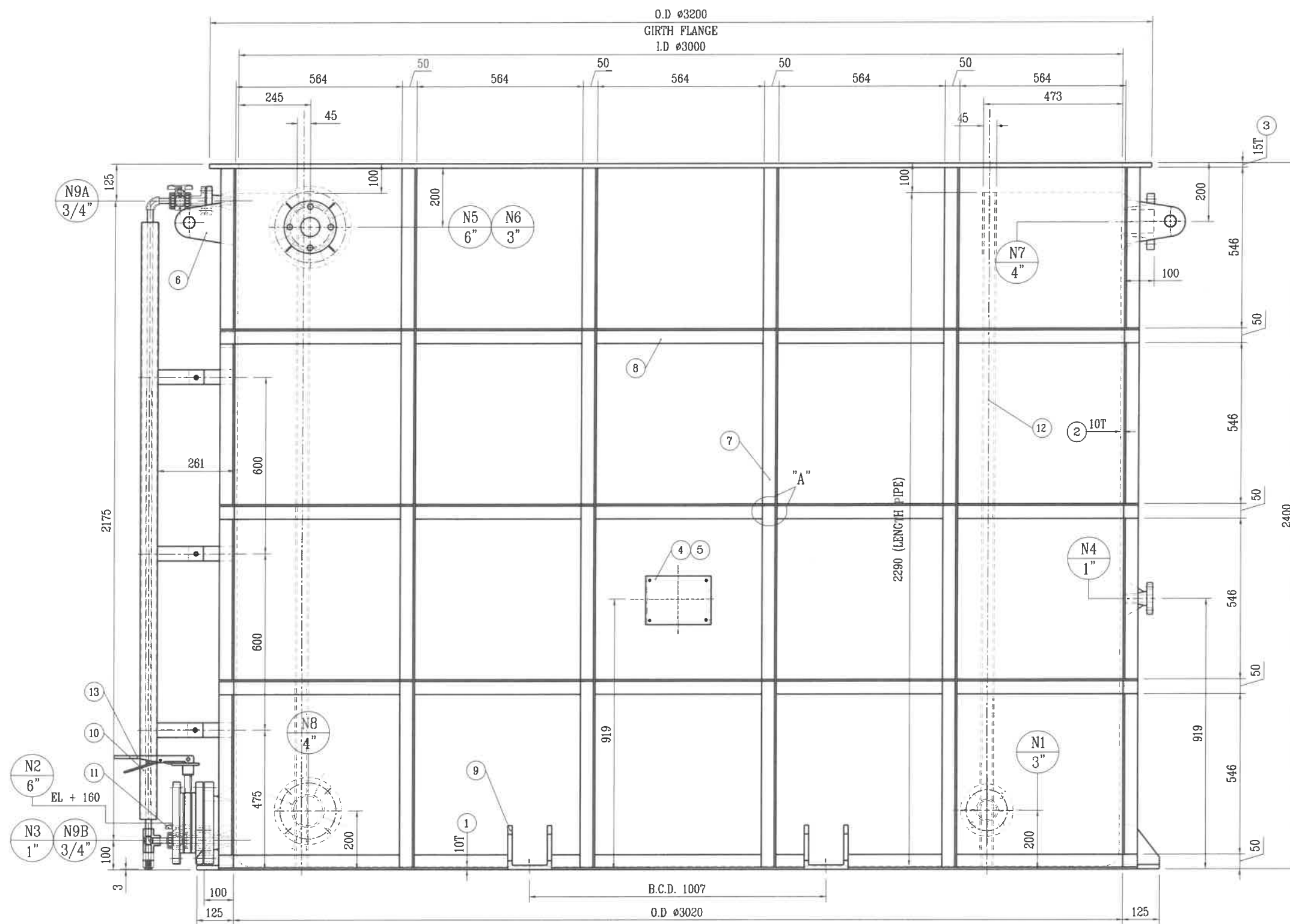




FOR CONSTRUCTION



NOZZLE ELEVATION TANK-1
OPTION - 2
SCALE 1 : 15



DESIGN DATA

DESIGN DATA	BS4994 & ASME RTP-1, 2015
SERVICE	WASTE WATER FOR SUBMERGED UF TANK
FLUID	WASTE WATER
SIZE OF TANK	3000(L) MM X 1170(W) MM
HEIGHT OF TANK	2400 MM
VOLUME	8.42 M ³
SPEC GRAVITY	1.1
DESIGN PRESSURE	ATMOSPHERIC
DESIGN TEMPERATURE	30° C
OPERATING PRESSURE	ATMOSPHERIC
OPERATING TEMPERATURE	AMBIENT
EMPTY WEIGHT	1158.71 KG
TEST WEIGHT	10930.8 KG
OPERATING WEIGHT	9582.7 KG
ROOF TYPE	OPEN
BOTTOM TYPE	FLAT (FULL SUPPORTED)
MATERIAL	FRP
QUANTITY OF TANK	1 UNIT
COLOR OF TANK	LIGHT GREY (AS NATURAL RESIN)

ACCESORIES

LADDER	YES / NO
HANDRAIL	YES / NO
PLATFORM	YES / NO
NAMEPLATE	YES / NO
LIFTING LUGS	YES / NO

NOZZLE SCHEDULE

MARK	SIZE	Q'TY	STANDARD	SERVICE	FLANGE FACE	MATERIAL
N1	3"	1	ANSI 16.5 CL150	OUTLET SPARE (BLIND)	FF	FRP
N2	6"	1	ANSI 16.5 CL150	CHEMICAL DRAIN	FF	FRP
N3	1"	1	ANSI 16.5 CL150	LEVEL TRANSMITTER	FF	FRP
N4	1"	1	ANSI 16.5 CL150	BALL VALVE FOR SAMPLING	FF	FRP
N5	6"	1	ANSI 16.5 CL150	OVERFLOW FOR NOZZLE	FF	FRP
N6	3"	1	ANSI 16.5 CL150	SPARE (BLIND)	FF	FRP
N7	4"	1	ANSI 16.5 CL150	OPTIONAL SPARE (BLIND)	FF	FRP
N8	4"	1	ANSI 16.5 CL150	SPARE (BLIND)	FF	FRP
N9A/B	3/4"	2	ANSI 16.5 CL150	LEVEL INDICATOR	FF	FRP

NOTES :
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED
2. ALL THE NOZZLE WILL BE PROVIDED WITH SUITABLE STIFFENERS
3. ALL THE BOLT HOLES SHALL STRADDLE VESSEL CENTERLINE

13	BUTTERFLY VALVE	PVC	1	6" BUTTERFLY VALVE
12	PIPE & PLATE	FRP	2	O.D. #45 & 10 mmT
11	BALL VALVE 3/4"	PVC	2	ANSI 16.5 CL150
10	LEVEL INDICATOR	PVC CLEAR	1	SEE DETAIL
9	HOLDDOWN LUGS	FRP	6	SEE DETAIL
8	REINFORCE HORIZONTAL	SS400+FRP	16	L.50x50x6
7	REINFORCE VERTICAL	SS400+FRP	14	L.50x50x6
6	LIFTING LUGS	SS400+FRP	4	15T
5	NAME PLATE BRACKET	FRP	1	5T
4	NAME PLATE	SUS304	1	0.8T
3	GIRTH FLANGE	FRP	1	15T
2	SHELL	FRP	1	10T
1	BOTTOM	FRP	1	10T

NO	NAME OF PART	MATERIAL	QUANTITY	REMARKS
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9	08-11-22	ISSUED FOR REVIEW	RID	IFF	YAN
8	03-11-22	ISSUED FOR REVIEW	RID	IFF	YAN
7	31-10-22	ISSUED FOR REVIEW	RID	IFF	YAN
6	29-10-22	ISSUED FOR REVIEW	RID	IFF	YAN
5	14-10-22	ISSUED FOR REVIEW	RID	IFF	YAN
4	04-10-22	ISSUED FOR REVIEW	RID	IFF	YAN
3	03-10-22	ISSUED FOR REVIEW	RID	IFF	YAN
2	28-09-22	ISSUED FOR REVIEW	RID	IFF	YAN
1	14-09-22	ISSUED FOR REVIEW	RID	IFF	YAN
0	09-09-22	ISSUED FOR REVIEW	RID	IFF	YAN

REV.	DATE	DESCRIPTION	DRAWN	CHECKED	APPROVED
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PROJECT : SQUARE TANK FRP

OWNER :

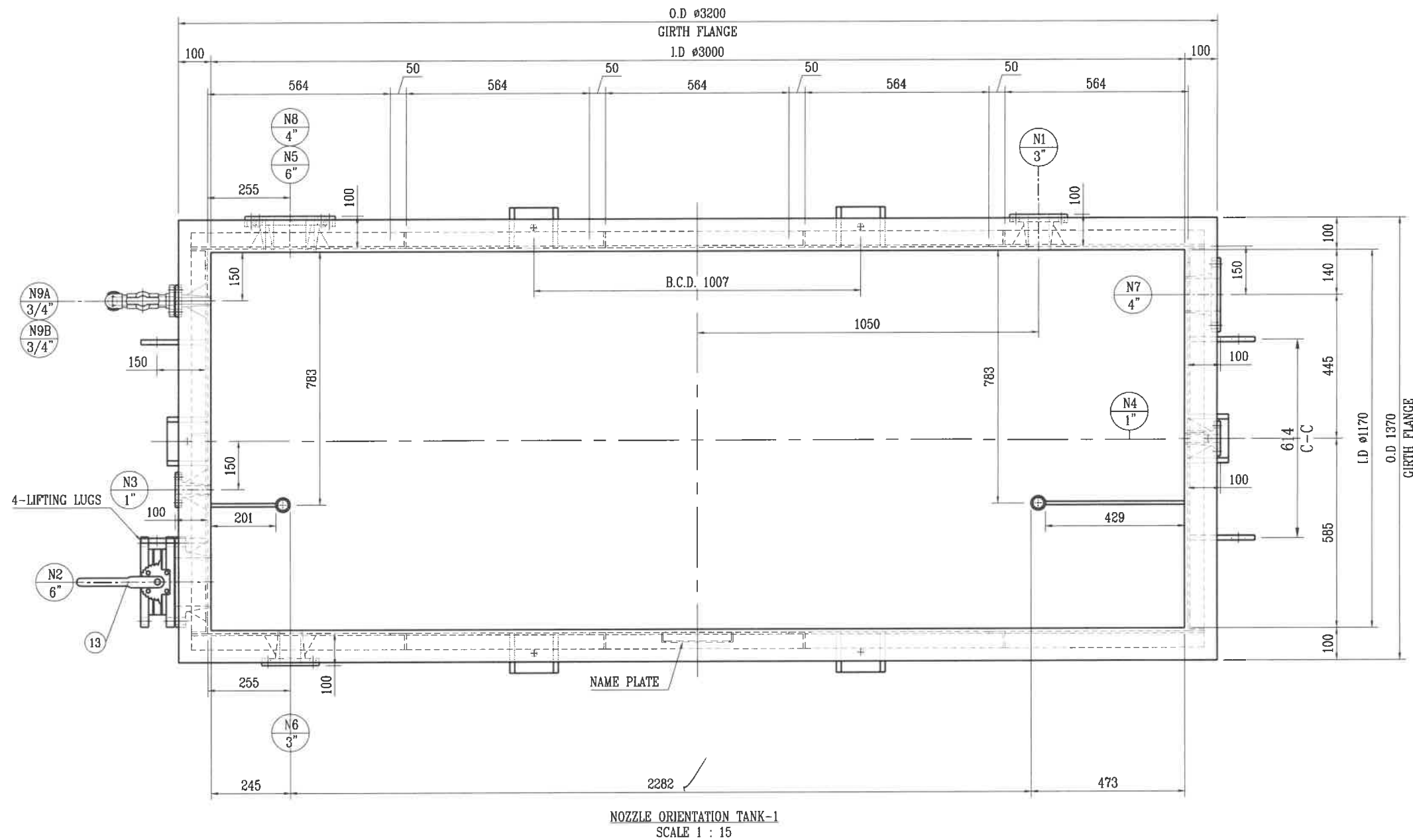
MANUFACTURER :

Fiber Glass Systems

DWG SIZE : A3	TITLE : GENERAL ARRANGEMENT WASTE WATER FOR SUBMERGED UF TANK (FRP)
SCALE : AS SHOWN	
DWG REF. :	
SHEET 1 OF 9	DRAWING NO. : NOV-E-22075-TK-01-01 REV. 9



FOR CONSTRUCTION



DESIGN DATA

DESIGN DATA	BS4994 & ASME RTP-1, 2015
SERVICE	WASTE WATER FOR SUBMERGED UF TANK
FLUID	WASTE WATER
SIZE OF TANK	3000(L) MM X 1170(W) MM
HEIGHT OF TANK	2400 MM
VOLUME	8.42 m ³
SPEC GRAVITY	1.1
DESIGN PRESSURE	ATMOSPHERIC
DESIGN TEMPERATURE	30° C
OPERATING PRESSURE	ATMOSPHERIC
OPERATING TEMPERATURE	AMBIENT
EMPTY WEIGHT	1158.71 KG
TEST WEIGHT	10930.8 KG
OPERATING WEIGHT	9582.7 KG
ROOF TYPE	PLATE
BOTTOM TYPE	FLAT (FULL SUPPORTED)
MATERIAL	FRP
QUANTITY OF TANK	1 UNIT
COLOR OF TANK	LIGHT GREY (AS NATURAL RESIN)

ACCESORIES

LADDER	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
HANDRAIL	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
PLATFORM	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
NAMEPLATE	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
LIFTING LUGS	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>

NOZZLE SCHEDULE

MARK	SIZE	Q'TY	STANDARD	SERVICE	FLANGE FACE	MATERIAL
N1	3"	1	ANSI 16.5 CL150	OUTLET	FF	FRP
N2	6"	1	ANSI 16.5 CL150	CHEMICAL DRAIN	FF	FRP
N3	1"	1	ANSI 16.5 CL150	LEVEL TRANSMITTER	FF	FRP
N4	1"	1	ANSI 16.5 CL150	BALL VALVE FOR SAMPLING	FF	FRP
N5	6"	1	ANSI 16.5 CL150	OVERFLOW FOR NOZZLE	FF	FRP
N6	3"	1	ANSI 16.5 CL150	SPARE (BLIND)	FF	FRP
N7	4"	1	ANSI 16.5 CL150	OPTIONAL SPARE (BLIND)	FF	FRP
N8	4"	1	ANSI 16.5 CL150	SPARE (BLIND)	FF	FRP
N9A/B	3/4"	2	ANSI 16.5 CL150	LEVEL INDICATOR	FF	FRP

NOTES :

- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED
- ALL THE NOZZLE WILL BE PROVIDED WITH SUITABLE STIFFENERS
- ALL THE BOLT HOLES SHALL STRADDLE VESSEL CENTERLINE

13	BUTTERFLY VALVE	PVC	1	6" , ANSI 16.5 CL150
NO	NAME OF PART	MATERIAL	QUANTITY	REMARKS

9	08-11-22	ISSUED FOR REVIEW	RID	IFF	YAN
8	03-11-22	ISSUED FOR REVIEW	RID	IFF	YAN
7	31-10-22	ISSUED FOR REVIEW	RID	IFF	YAN
6	29-10-22	ISSUED FOR REVIEW	RID	IFF	YAN
5	14-10-22	ISSUED FOR REVIEW	RID	IFF	YAN
4	04-10-22	ISSUED FOR REVIEW	RID	IFF	YAN
3	03-10-22	ISSUED FOR REVIEW	RID	IFF	YAN
2	28-09-22	ISSUED FOR REVIEW	RID	IFF	YAN
1	14-09-22	ISSUED FOR REVIEW	RID	IFF	YAN
0	09-09-22	ISSUED FOR REVIEW	RID	IFF	YAN
REV.	DATE	DESCRIPTION	DRAWN	CHECKED	APPROVED

PROJECT :

SQUARE TANK FRP

OWNER :

MANUFACTURER :

NOV Fiber Glass Systems

DWG SIZE :

A3

SCALE :

AS SHOWN

DWG REF :

SHEET :

2 OF 9

TITLE :

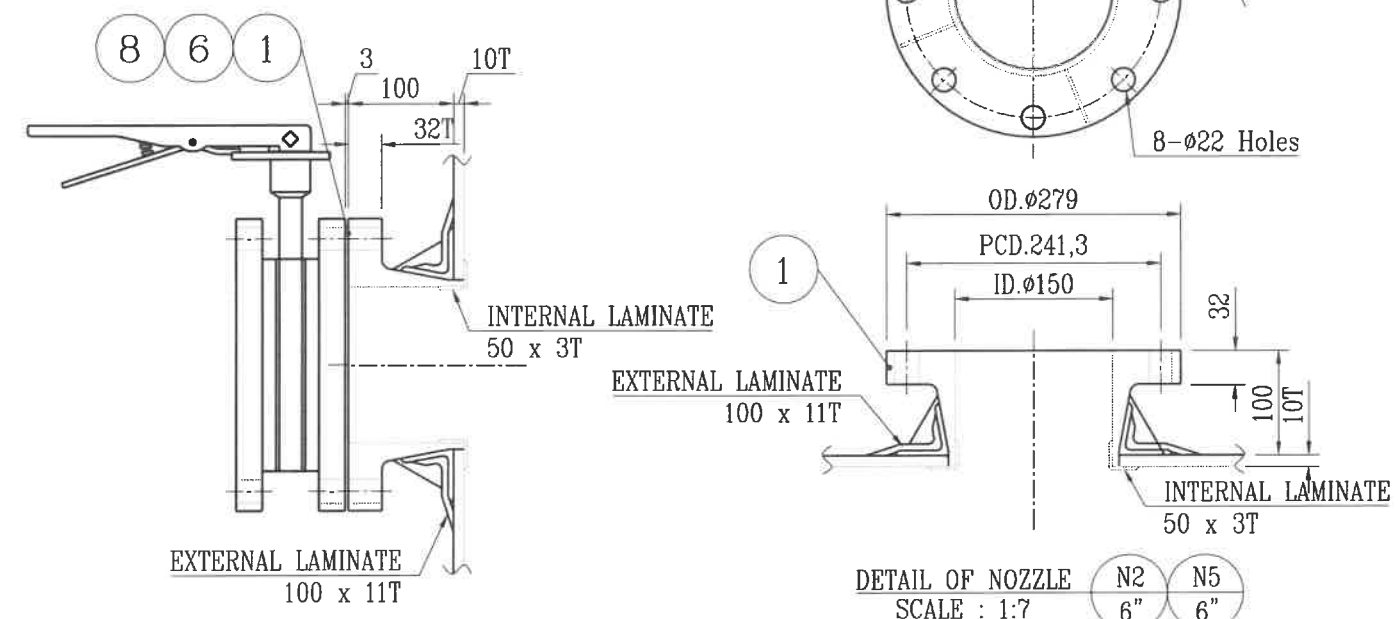
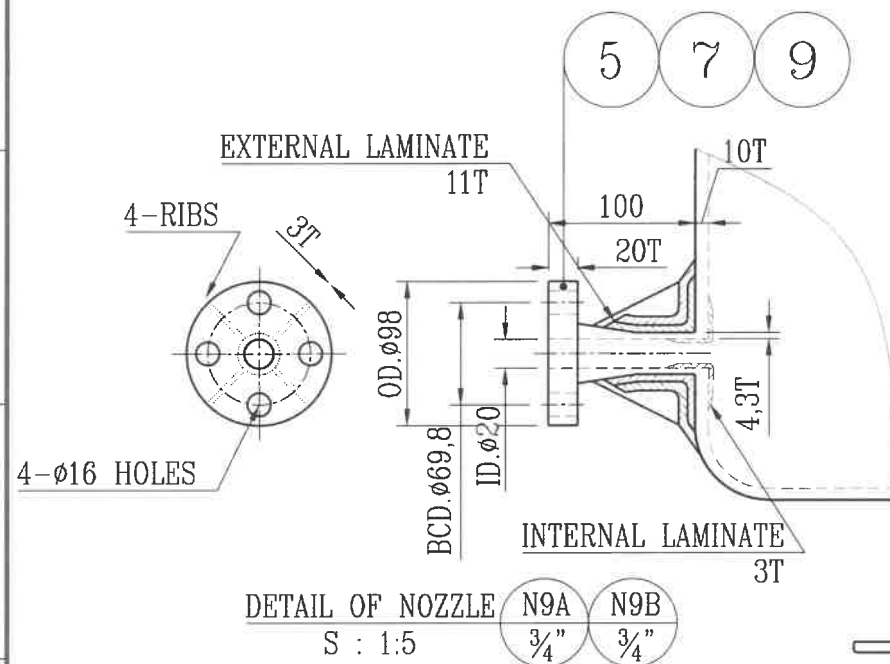
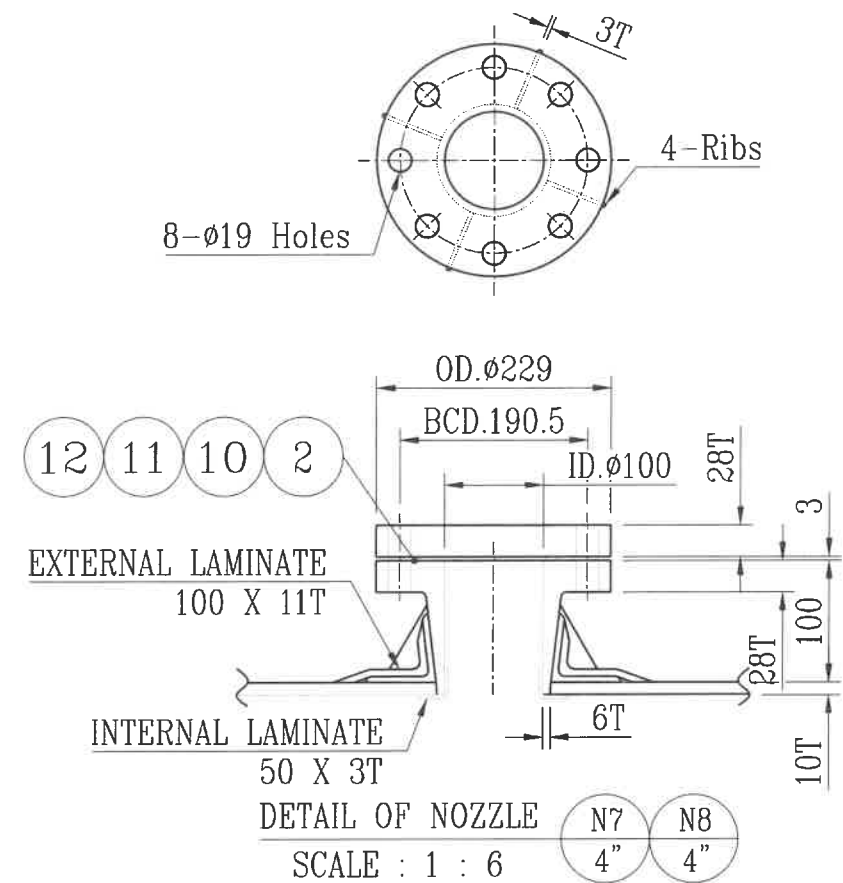
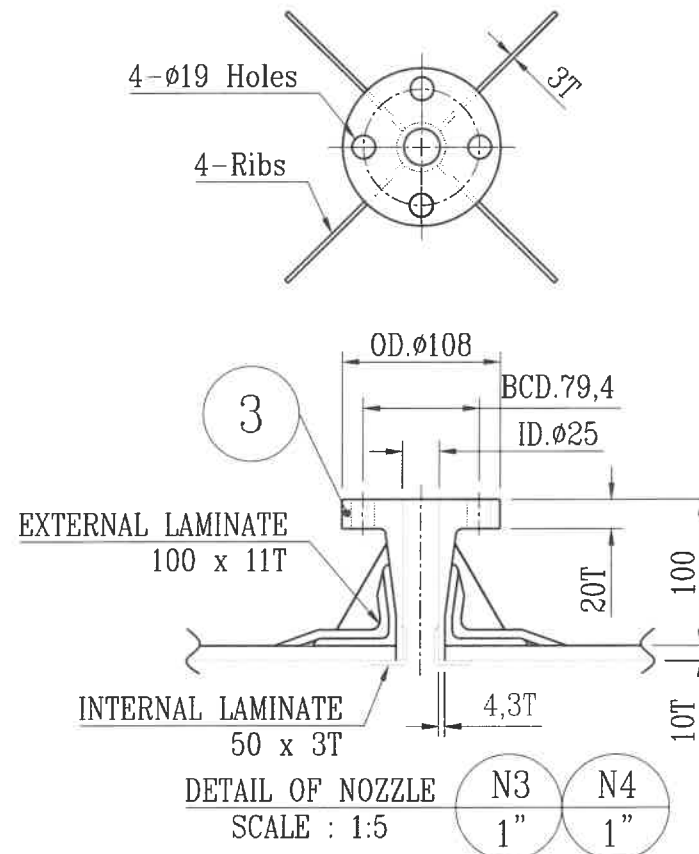
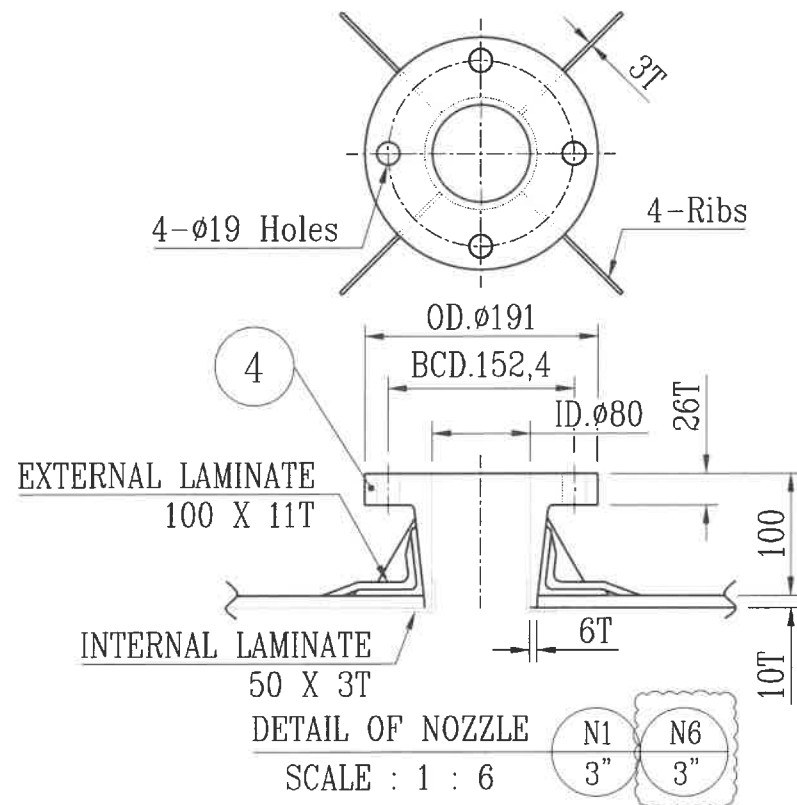
GENERAL ARRANGEMENT
WASTE WATER FOR SUBMERGED UF TANK (FRP)

DRAWING NO. :

NOV-E-22075-TK-01-02

REV.

9



NOTES :

1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED
2. ALL THE NOZZLE WILL BE PROVIDED WITH SUITABLE STIFFENERS
3. ALL THE BOLT HOLES SHALL STRADDLE VESSEL CENTERLINE

NO	NAME OF PART	MATERIAL	QUANTITY	REMARKS
12	GASKET 3mmThk	EPDM	3	4", ANSI 16.5 CL150
11	BLIND FLANGE	FRP	3	4", ANSI 16.5 CL150
10	HEX.B/2N/2WS	SUS 304	16	M16 x 107L
9	HEX.B/2N/2WS	SUS 304	8	M12 x 83L
8	HEX.B/2N/2WS	SUS 304	8	M20 x 123L
7	GASKET 3mmThk	EPDM	2	3/4", ANSI 16.5 CL150
6	GASKET 3mmThk	EPDM	1	6", ANSI 16.5 CL150
5	FLANGE	FRP	2	3/4", ANSI 16.5 CL150
4	FLANGE	FRP	2	3", ANSI 16.5 CL150
3	FLANGE	FRP	2	1", ANSI 16.5 CL150
2	FLANGE	FRP	2	4", ANSI 16.5 CL150
1	FLANGE	FRP	2	6", ANSI 16.5 CL150

REV.	DATE	DESCRIPTION	DRAWN	CHECKED	APPROVED
9	08-11-22	ISSUED FOR REVIEW	RID	IFF	YAN
8	03-11-22	ISSUED FOR REVIEW	RID	IFF	YAN
7	31-10-22	ISSUED FOR REVIEW	RID	IFF	YAN
6	29-10-22	ISSUED FOR REVIEW	RID	IFF	YAN
5	14-10-22	ISSUED FOR REVIEW	RID	IFF	YAN
4	04-10-22	ISSUED FOR REVIEW	RID	IFF	YAN
3	03-10-22	ISSUED FOR REVIEW	RID	IFF	YAN
2	28-09-22	ISSUED FOR REVIEW	RID	IFF	YAN
1	14-09-22	ISSUED FOR REVIEW	RID	IFF	YAN
0	09-09-22	ISSUED FOR REVIEW	RID	IFF	YAN

PROJECT : SQUARE TANK FRP

OWNER :

MANUFACTURER : **NOV Fiber Glass Systems**

DWG SIZE : A3

SCALE : AS SHOWN

DWG REF : -

SHEET : 4 OF 9

TITLE : **DETAIL OF NOZZLE
WASTE WATER FOR SUBMERGED UF TANK (FRP)**

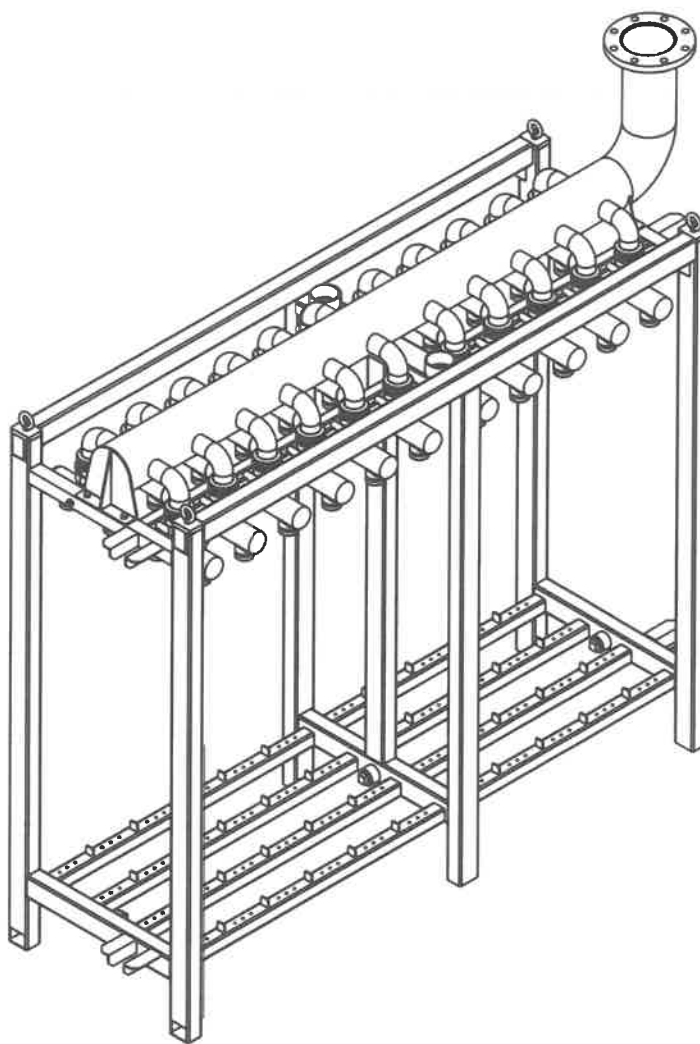
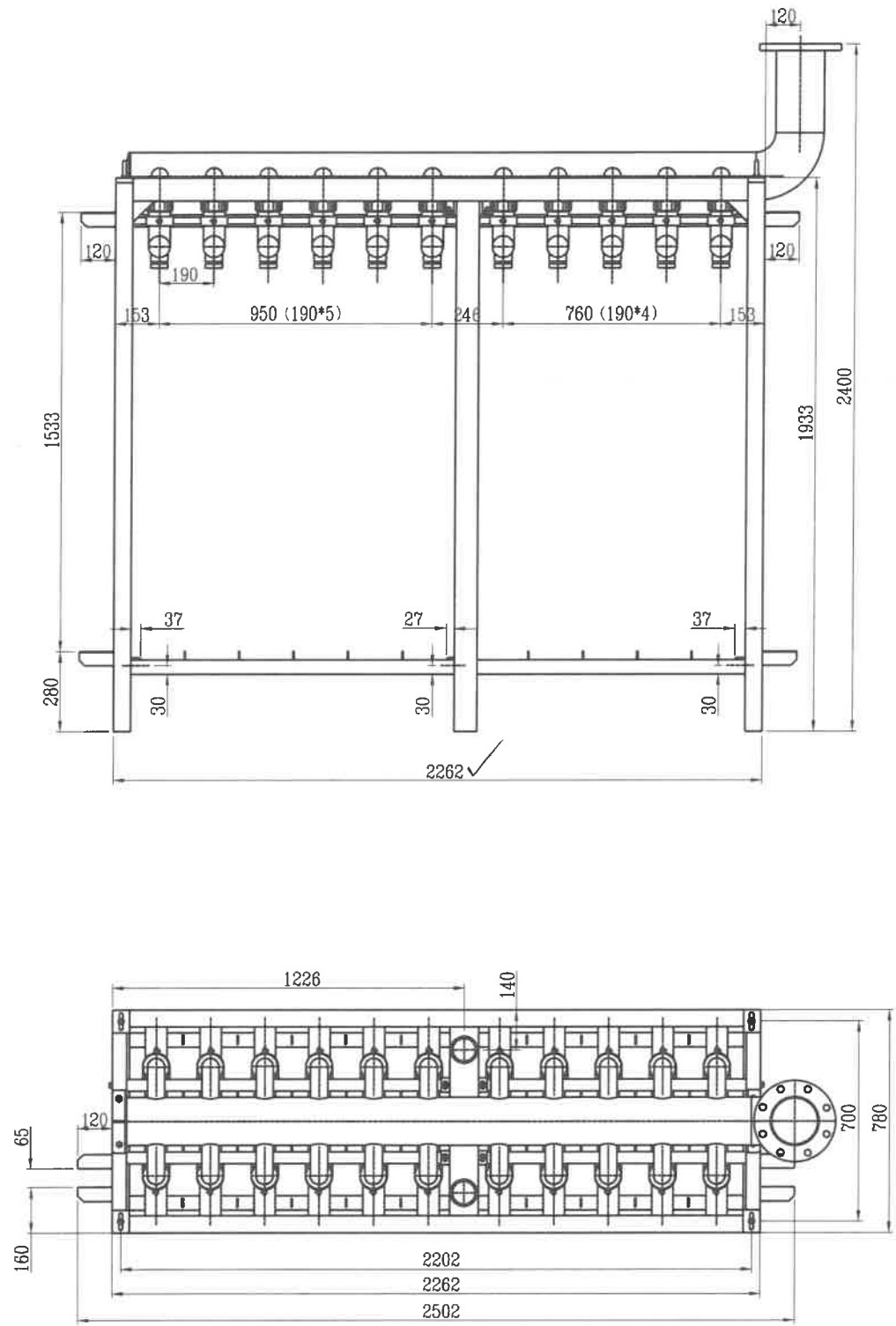
DRAWING NO. : NOV-E-22075-TK-01-04

REV. : 9

FOR CONSTRUCTION

FOR REFERENCE

FOR REFERENCE

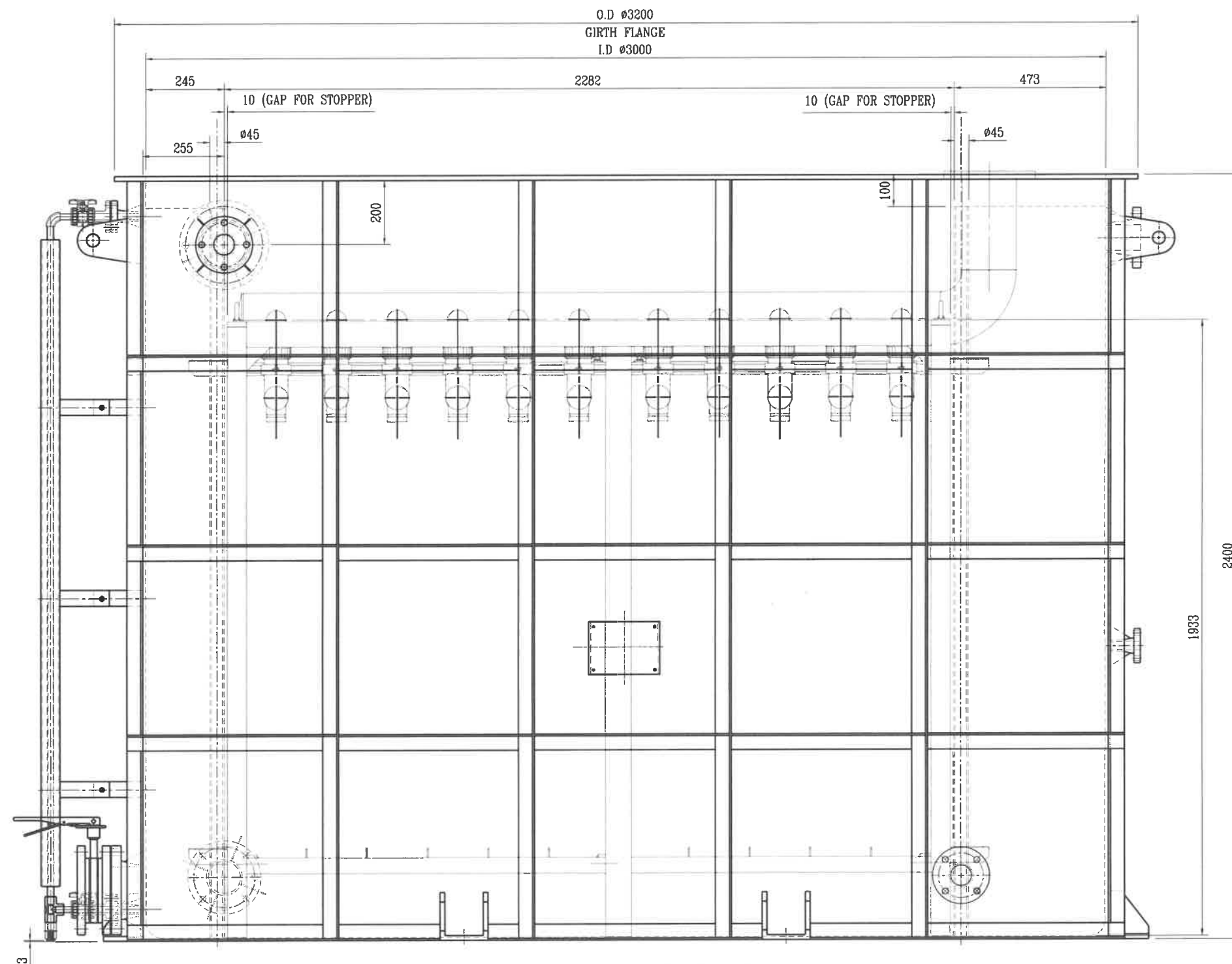


NOTES :
1. THIS DRAWING FROM DWG NO. BSMT-SMP-22003-002

PROJECT :		SQUARE TANK FRP	
OWNER :		-	
MANUFACTURER :		NOV Fiber Glass Systems	
DWG SIZE :	A3	TITLE : DETAIL OF CASSETE WASTE WATER FOR SUBMERGED UF TANK (FRP)	
SCALE :	AS SHOWN		
DWG REF :	-	DRAWING NO. : NOV-E-22075-TK-01-05	
SHEET	5 OF 9		
			REV. 9



FOR CONSTRUCTION




NOZZLE ELEVATION FOR OVERFLOW
OPTION - 2
SCALE 1 : 15

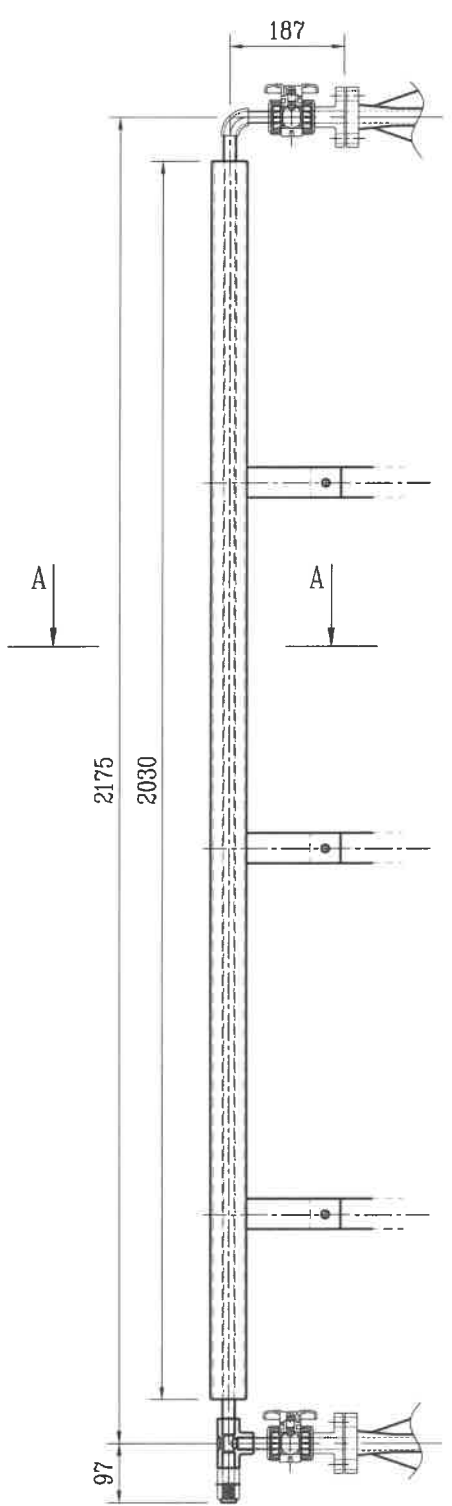
9	08-11-22	ISSUED FOR REVIEW	RID	IFF	YAN
8	03-11-22	ISSUED FOR REVIEW	RID	IFF	YAN
7	31-10-22	ISSUED FOR REVIEW	RID	IFF	YAN
6	29-10-22	ISSUED FOR REVIEW	RID	IFF	YAN
5	14-10-22	ISSUED FOR REVIEW	RID	IFF	YAN
4	04-10-22	ISSUED FOR REVIEW	RID	IFF	YAN
3	03-10-22	ISSUED FOR REVIEW	RID	IFF	YAN
2	28-09-22	ISSUED FOR REVIEW	RID	IFF	YAN
1	14-09-22	ISSUED FOR REVIEW	RID	IFF	YAN
0	09-09-22	ISSUED FOR REVIEW	RID	IFF	YAN
REV.	DATE	DESCRIPTION	DRAWN	CHECKED	APPROVED

PROJECT : SQUARE TANK FRP					
OWNER :					
MANUFACTURER : NOV Fiber Glass Systems					
DWG SIZE :	A3	TITLE : DETAIL OF NOZZLE OVERFLOW FOR SUBMERGED UF TANK (FRP)			
SCALE :	AS SHOWN				
DWG REF :	-				
SHEET :	6 OF 9				
DRAWING NO. : NOV-E-22075-TK-01-06					REV. 9

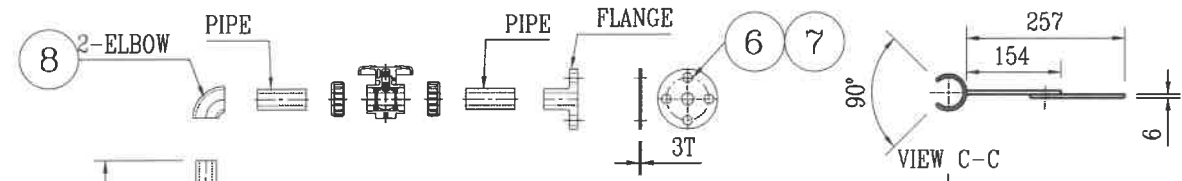


PROJECT :		SQUARE TANK FRP	
OWNER :		-	
MANUFACTURER :			
DWG SIZE :	A3	TITLE : DETAIL OF CASSETTE ORIENTATION FOR SUBMERGED UF TANK (FRP)	REV. 9
SCALE :	AS SHOWN		
DWG REF :	-		
SHEET :	7 OF 9		
DRAWING NO. :		NOV-E-22075-TK-01-07	

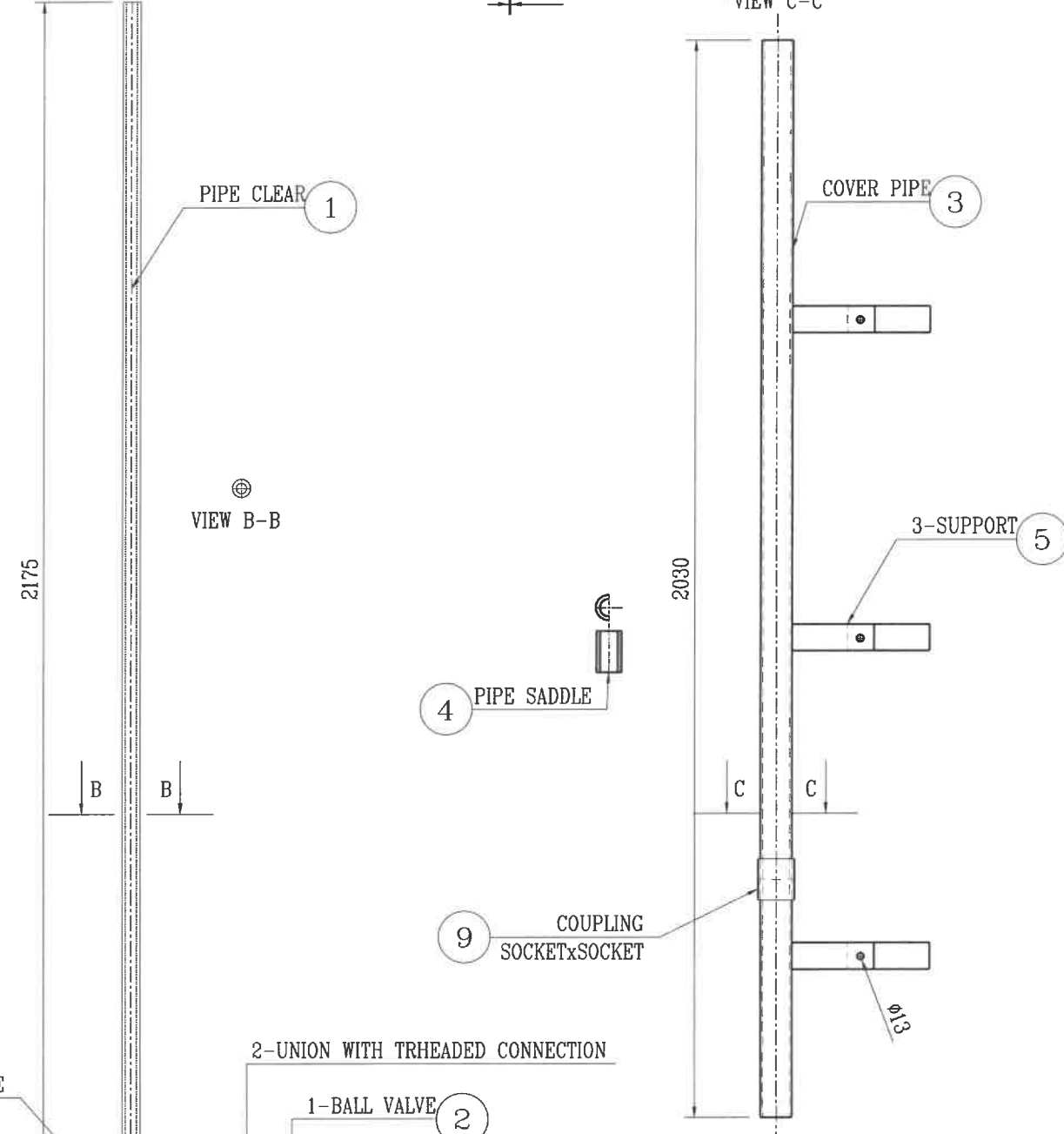
FOR CONSTRUCTION



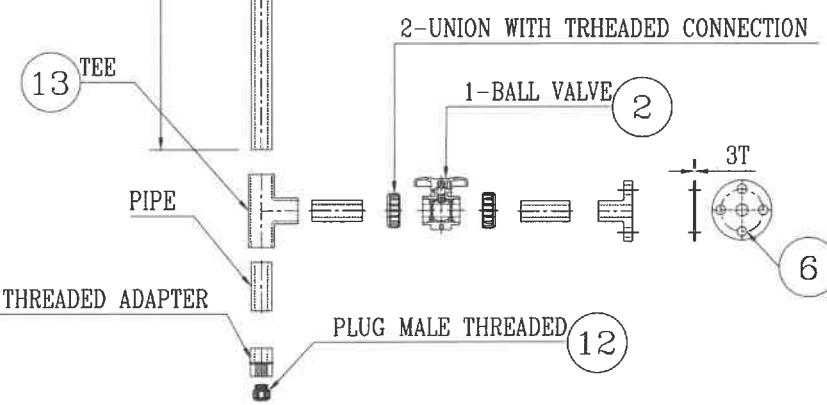
ASSEMBLY OF LEVEL INDICATOR
SCALE : 1:12



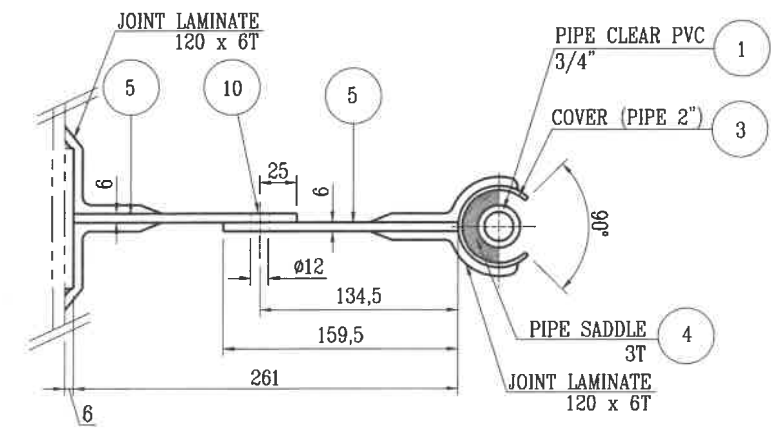
VIEW C-C



VIEW B-B



PIECES OF LEVEL INDICATOR
SCALE : 1:12



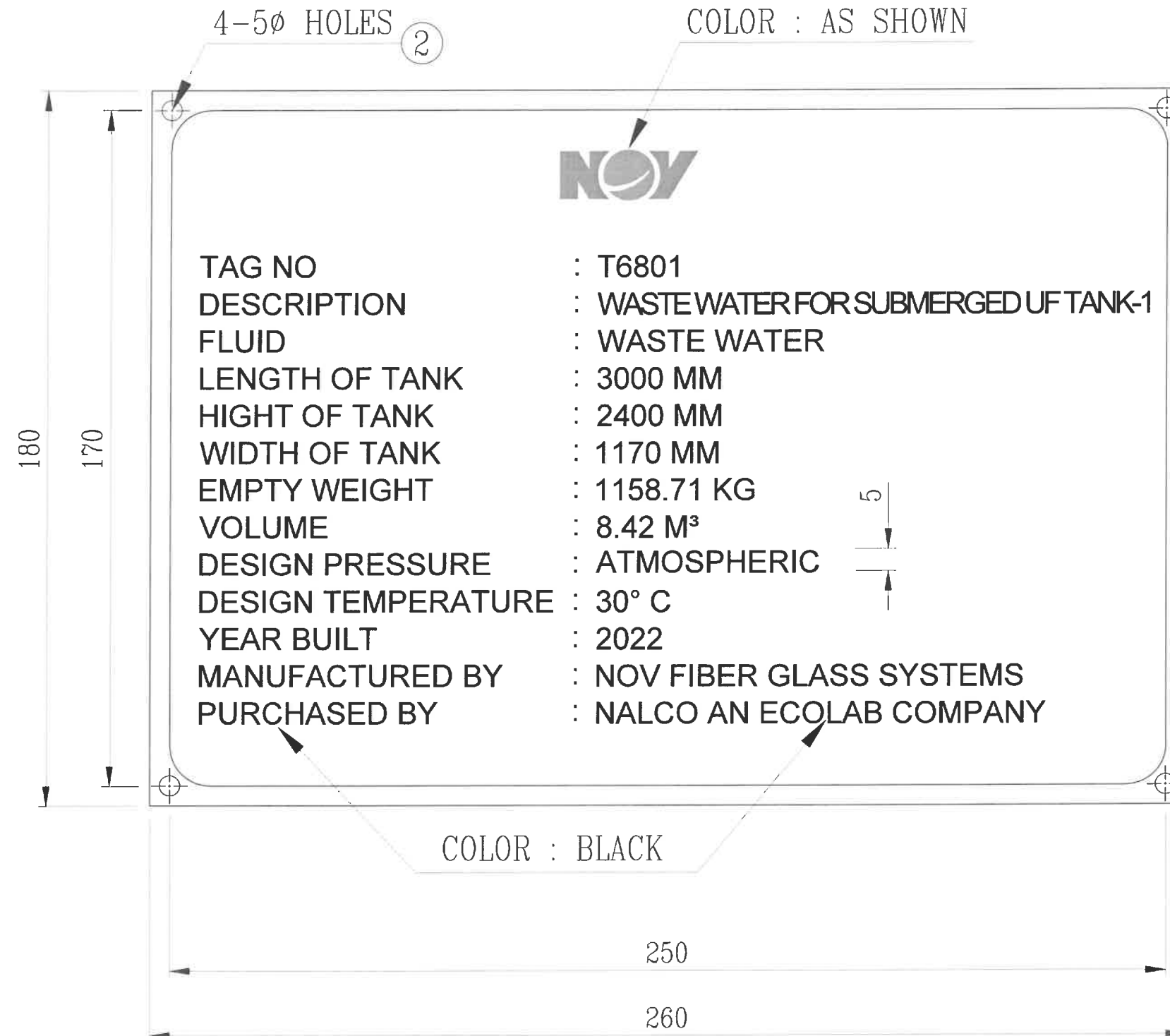
SECTION A - A
SCALE 1 : 3

13	CONCENTRIC TEE	PVC	1	3/4"	
12	PLUG MALE THREADED	PVC	1	3/4"	
11	FEMALE THREADED ADAPT.	PVC	1	3/4"	
10	HEX.B/2N/2WS	SUS 304	3	M10 x 48L	
9	COUPLING	PVC CLEAR	1	3/4"	
8	ELBOW 90° LR	FRP	2	3/4"	
7	HEX.B/2N/2WS	SUS 304	8	M12 x 83L	
6	GASKET 3mmT	EPDM	2	3/4" ANSI 16.5 CL 150	
5	COVER SUPPORT	FRP	3	6T	
4	PIPE SADDLE	FRP	2	3T	
3	COVER PIPE	FRP	1	2"	
2	BALL VALVE	PVC	2	3/4" ANSI 16.5 CL 150	
1	PIPE CLEAR	PVC CLEAR	1	3/4"	

NO	NAME OF PART	MATERIAL	QUANTITY	REMARKS
9	08-11-22	ISSUED FOR REVIEW	RID	IFF YAN
8	03-11-22	ISSUED FOR REVIEW	RID	IFF YAN
7	31-10-22	ISSUED FOR REVIEW	RID	IFF YAN
6	29-10-22	ISSUED FOR REVIEW	RID	IFF YAN
5	14-10-22	ISSUED FOR REVIEW	RID	IFF YAN
4	04-10-22	ISSUED FOR REVIEW	RID	IFF YAN
3	03-10-22	ISSUED FOR REVIEW	RID	IFF YAN
2	28-09-22	ISSUED FOR REVIEW	RID	IFF YAN
1	14-09-22	ISSUED FOR REVIEW	RID	IFF YAN
0	09-09-22	ISSUED FOR REVIEW	RID	IFF YAN


REV.	DATE	DESCRIPTION	DRAWN	CHECKED	APPROVED
PROJECT :	SQUARE TANK FRP				
OWNER :					
MANUFACTURER :	NOV Fiber Glass Systems				
DWG SIZE :	A3	TITLE :	DETAIL OF LEVEL INDICATOR WASTE WATER FOR SUBMERGED UF TANK - 2 (FRP)		
SCALE :	AS SHOWN	DRAWING NO. :	NOV-E-22075-TK-01-08		
DWG REF. :	-	SHEET :	8 OF 9	REV.	9

FOR CONSTRUCTION



DETAIL OF NAMEPLATE
SCALE 1 : 1.3

NOTES :
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED
2. ALL THE NOZZLE WILL BE PROVIDED WITH SUITABLE STIFFENRS
3. ALL THE BOLT HOLES SHALL STRADDLE VESSEL CENTERLINE

2	HEX.BOLT /N/ZWS	SUS 304	4	M4 X 30L	
1	NAME PLATE	SUS 304	1	0.8T	
NO	NAME OF PART	MATERIAL	QUANTITY	REMARKS	
9	08-11-22	ISSUED FOR REVIEW	RID	IFF YAN	
8	03-11-22	ISSUED FOR REVIEW	RID	IFF YAN	
7	31-10-22	ISSUED FOR REVIEW	RID	IFF YAN	
6	29-10-22	ISSUED FOR REVIEW	RID	IFF YAN	
5	14-10-22	ISSUED FOR REVIEW	RID	IFF YAN	
4	04-10-22	ISSUED FOR REVIEW	RID	IFF YAN	
3	03-10-22	ISSUED FOR REVIEW	RID	IFF YAN	
2	28-09-22	ISSUED FOR REVIEW	RID	IFF YAN	
1	14-09-22	ISSUED FOR REVIEW	RID	IFF YAN	
0	09-09-22	ISSUED FOR REVIEW	RID	IFF YAN	
REV.	DATE	DESCRIPTION	DRAWN	CHECKED	APPROVED
PROJECT : SQUARE TANK FRP					
OWNER :					
MANUFACTURER :  Fiber Glass Systems					
DWG SIZE :	A3	TITLE : DETAIL OF NAMEPLATE			
SCALE :	AS SHOWN	WASTE WATER FOR SUBMERGED UF TANK (FRP)			
DWG REF :	-	DRAWING NO. :			
SHEET :	9 OF 9	NOV-E-22075-TK-01-09			REV. 9