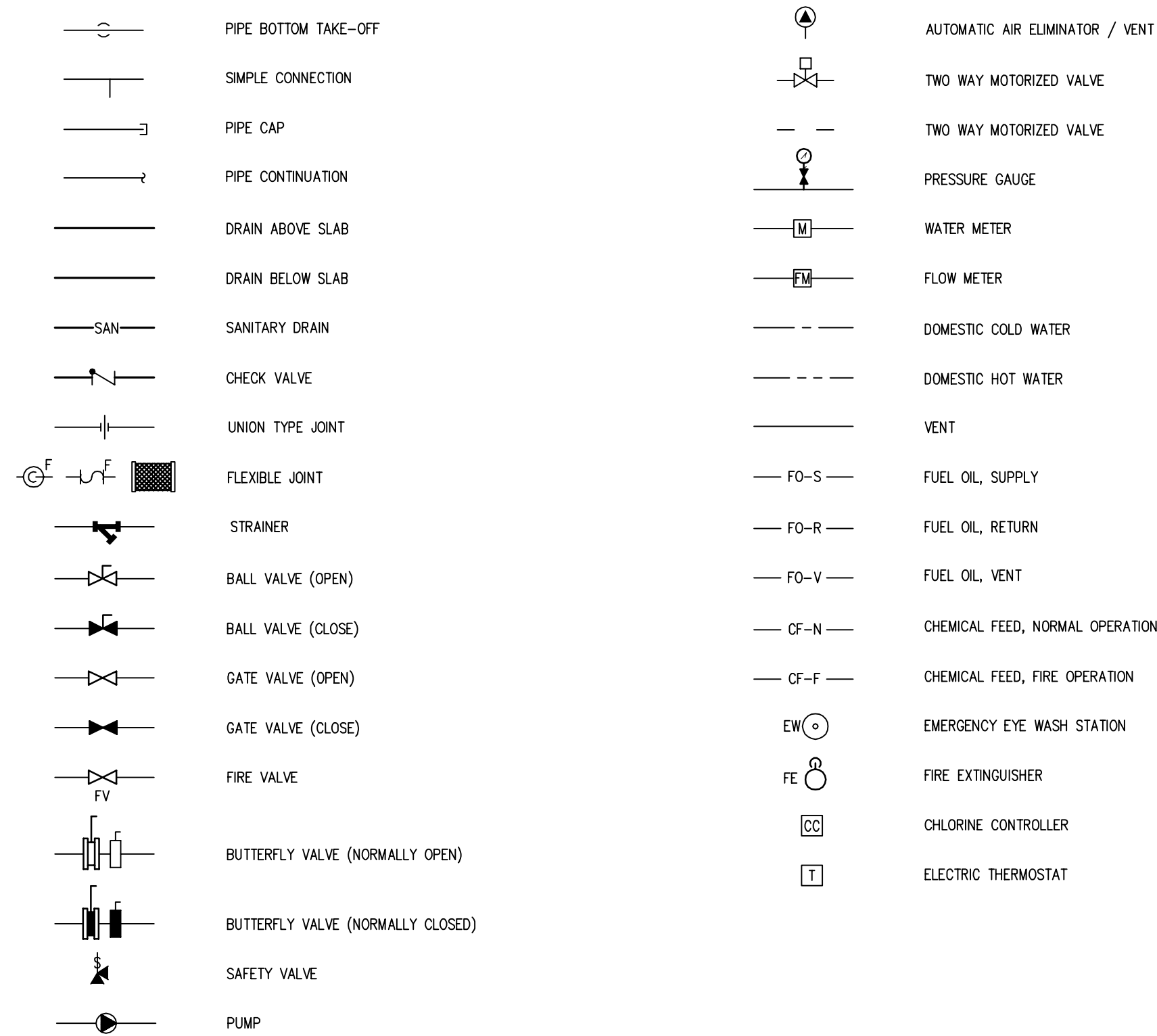
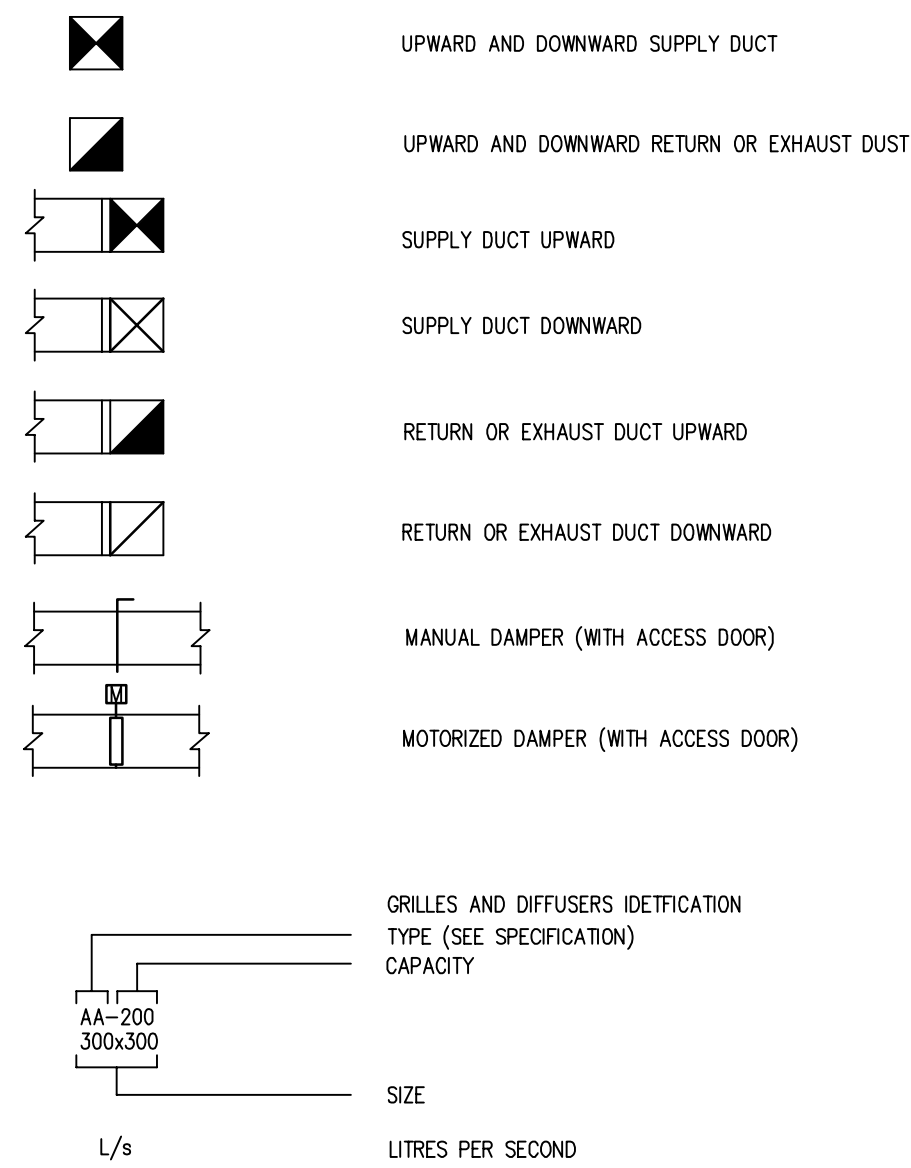


PLUMBING AND HEATING



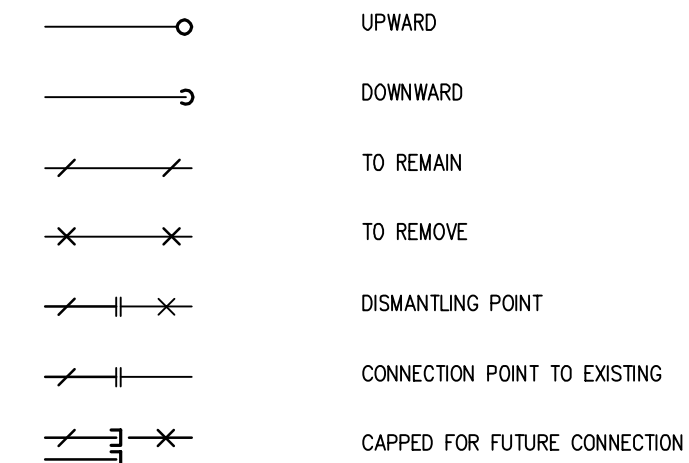
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DRAWING LIST

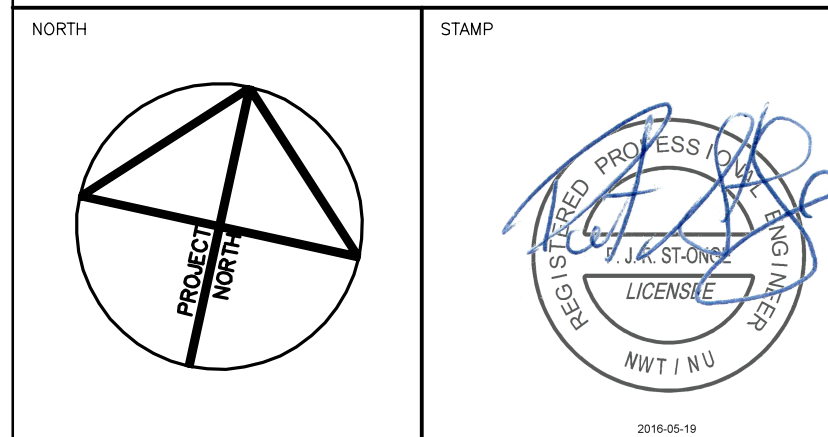
M100	MECHANICAL - LEGEND AND DRAWING LIST
M101	MECHANICAL - DETAILS
M200	MECHANICAL - PLUMBING LAYOUT
M201	MECHANICAL - PLUMBING ELEVATION DETAILS
M202	MECHANICAL - PLUMBING SCHEMATIC AND ELEVATION DETAIL
M300	MECHANICAL - FUEL SYSTEM LAYOUT
M301	MECHANICAL - FUEL SYSTEM SCHEMATIC & NORTH ELEVATION
M500	MECHANICAL - VENTILATION LAYOUT
M600	MECHANICAL - CONTROL SCHEMATICS
M601	MECHANICAL - CONTROL SCHEMATICS
M602	MECHANICAL - CONTROL SCHEMATICS

GENERAL



PERMIT TO PRACTICE BOUTHILLETTE PARIZEAU INC.

Signature: *[Signature]*
Date: 2016-05-18
PERMIT NUMBER: P717
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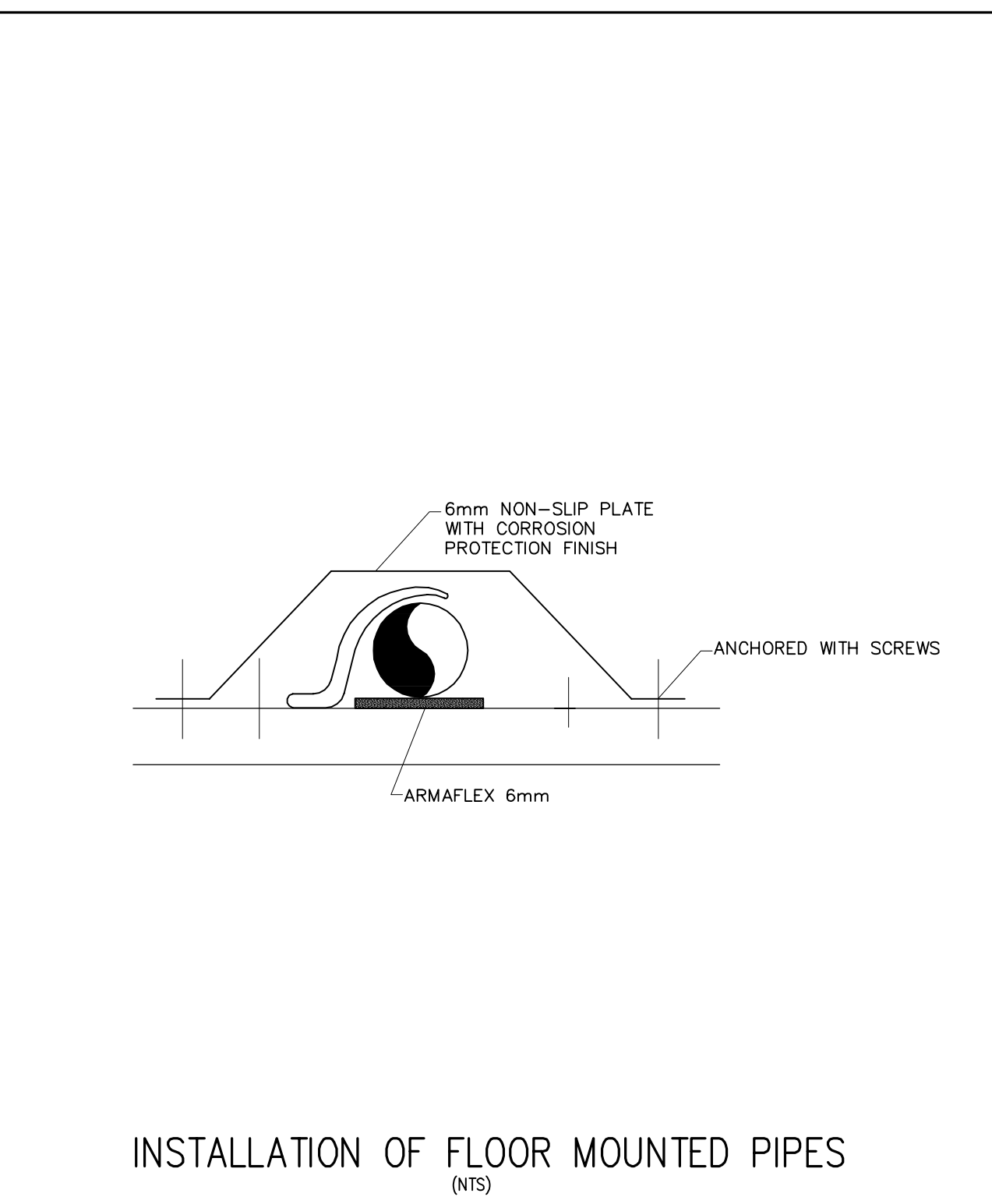
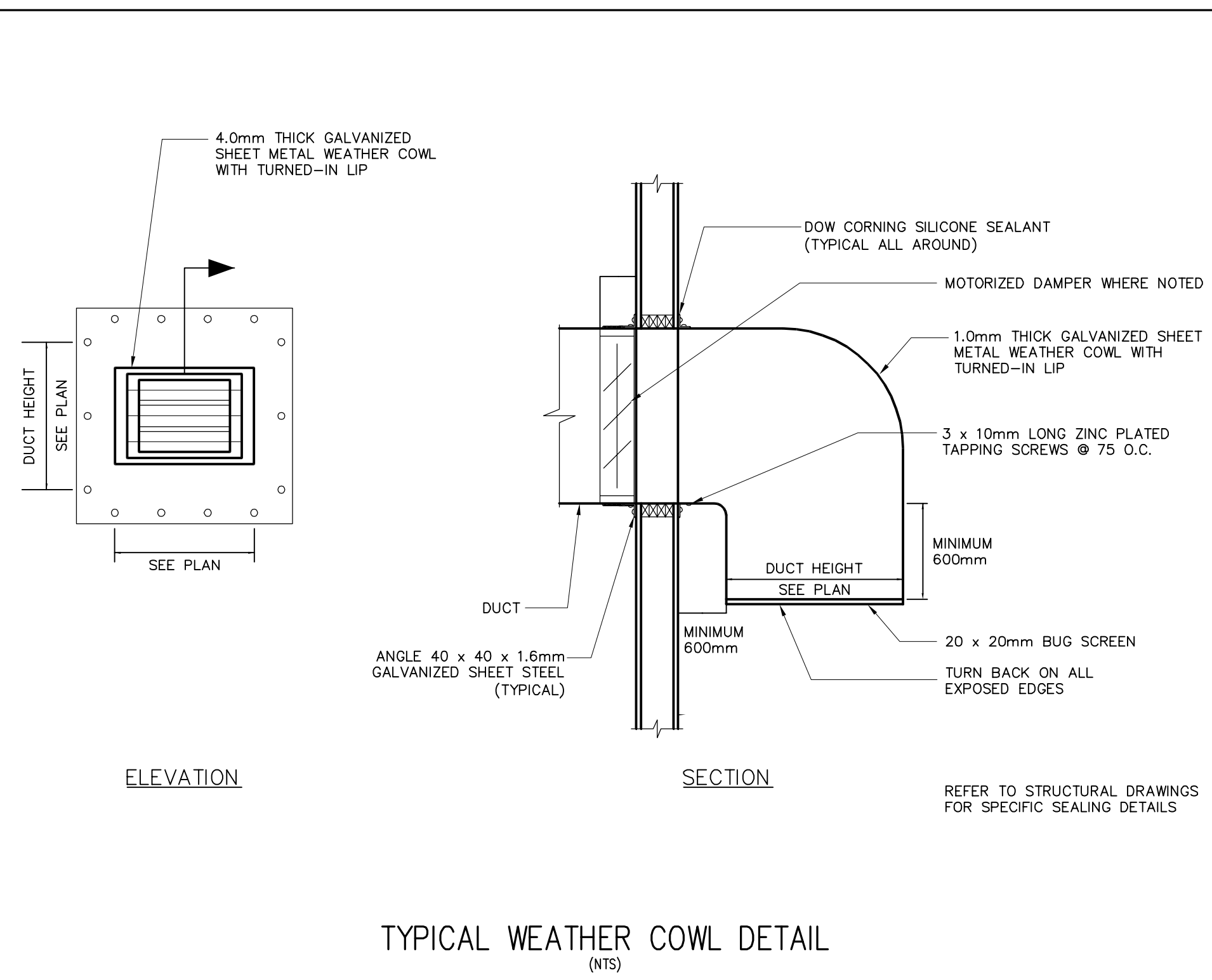
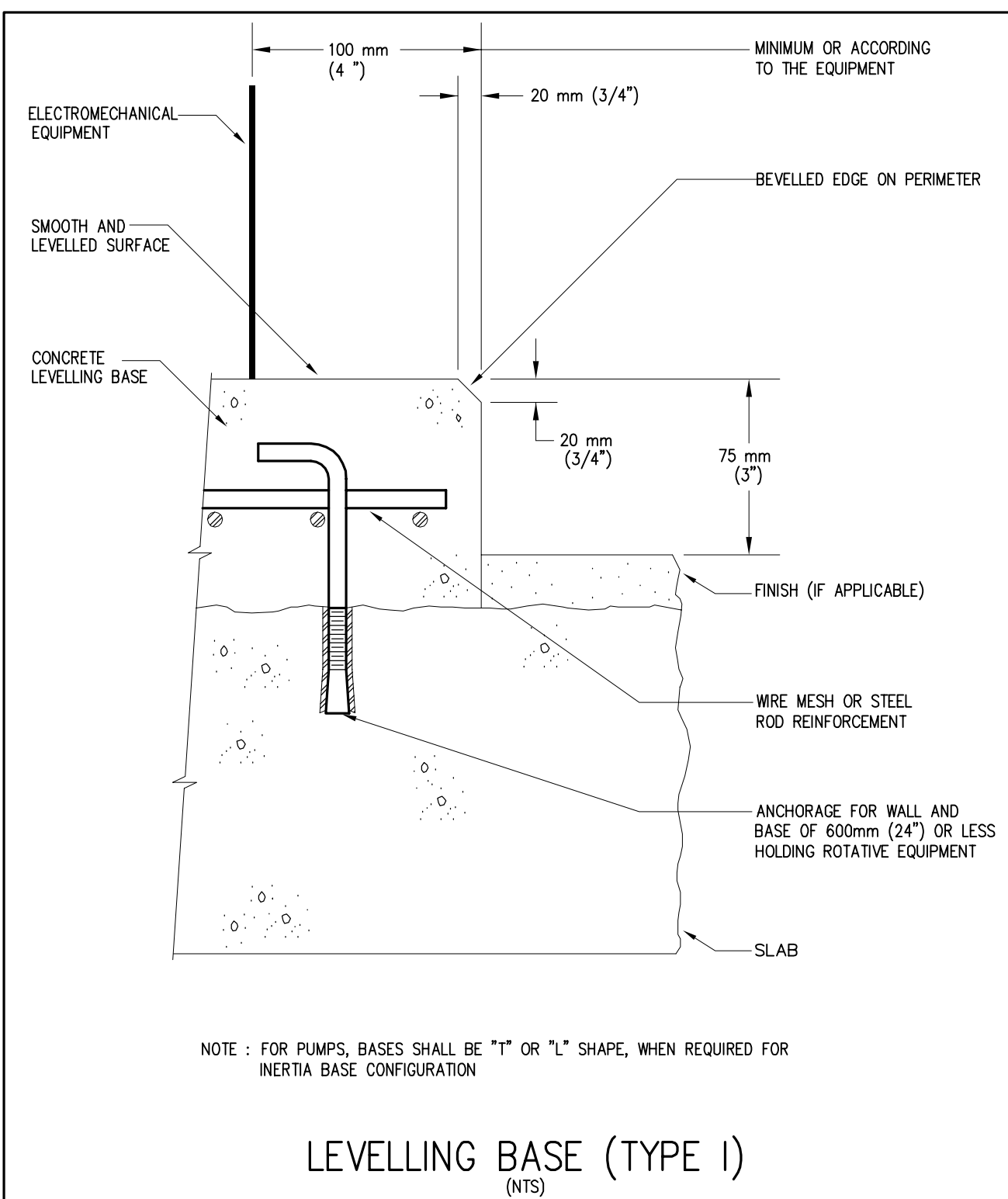


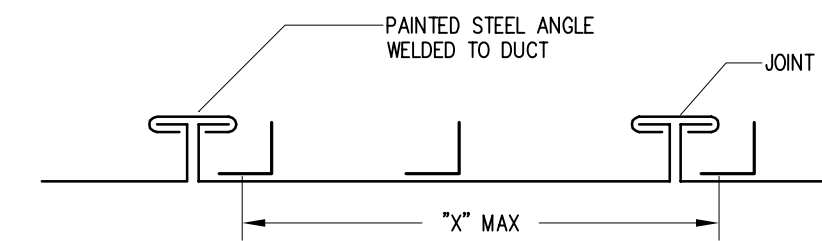
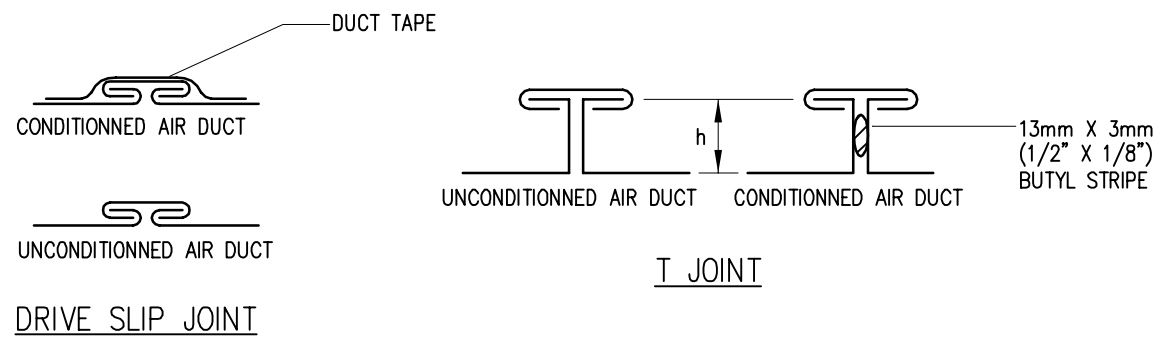
CLIENT: GOVERNMENT OF NUNAVUT
DEPARTMENT OF COMMUNITY AND GOVERNMENT SERVICES

PROJECT: REPULSE BAY, NUNAVUT
NEW PUMPING STATION

TITLE: MECHANICAL
LEGEND AND DRAWING LIST

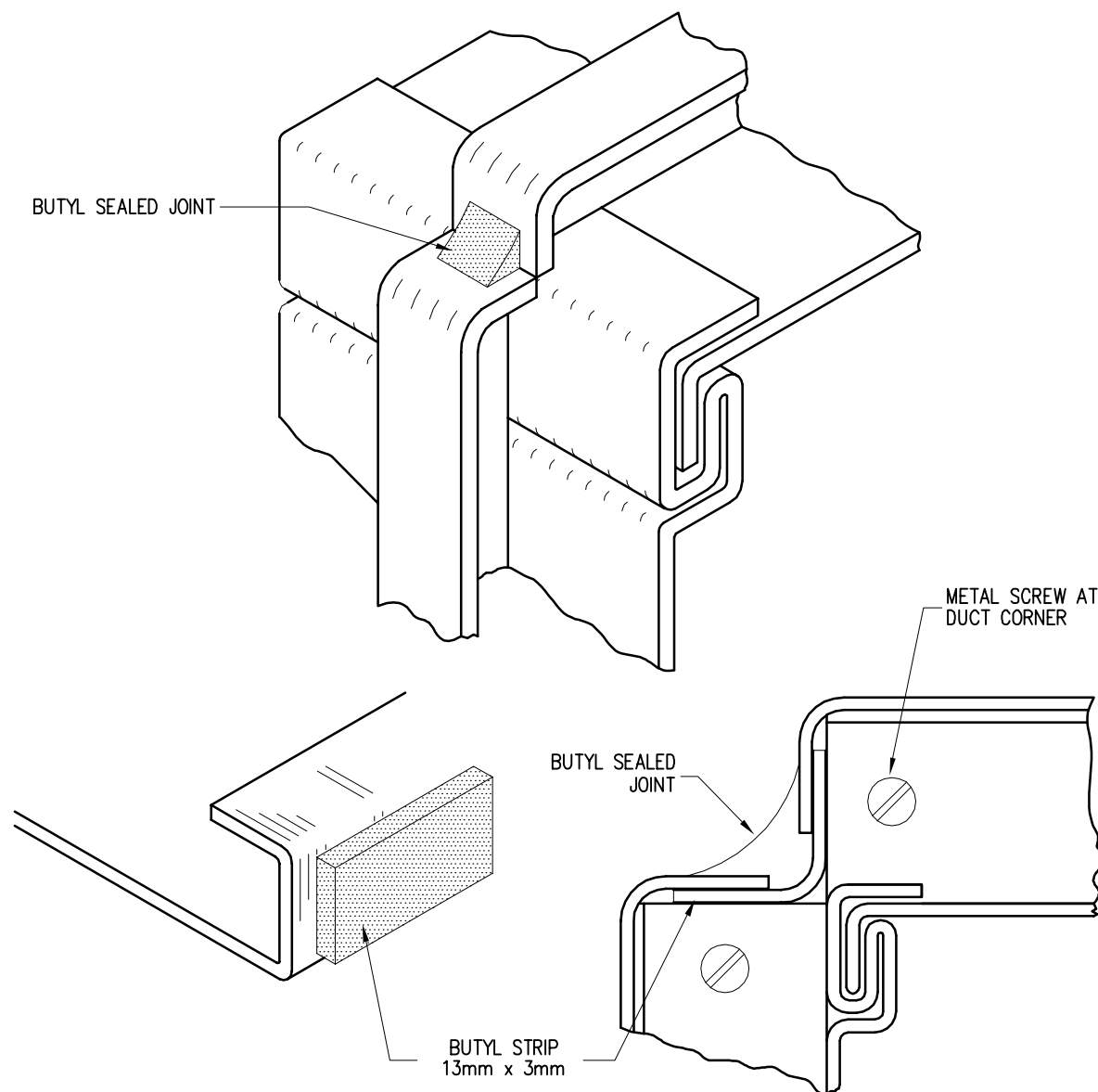
design by	P.C.	project no.	8012-099
drawn by	Y.G.	drawing no.	M100
checked by	P.S.O.		
date	DECEMBER 2014		
	N.T.S.		



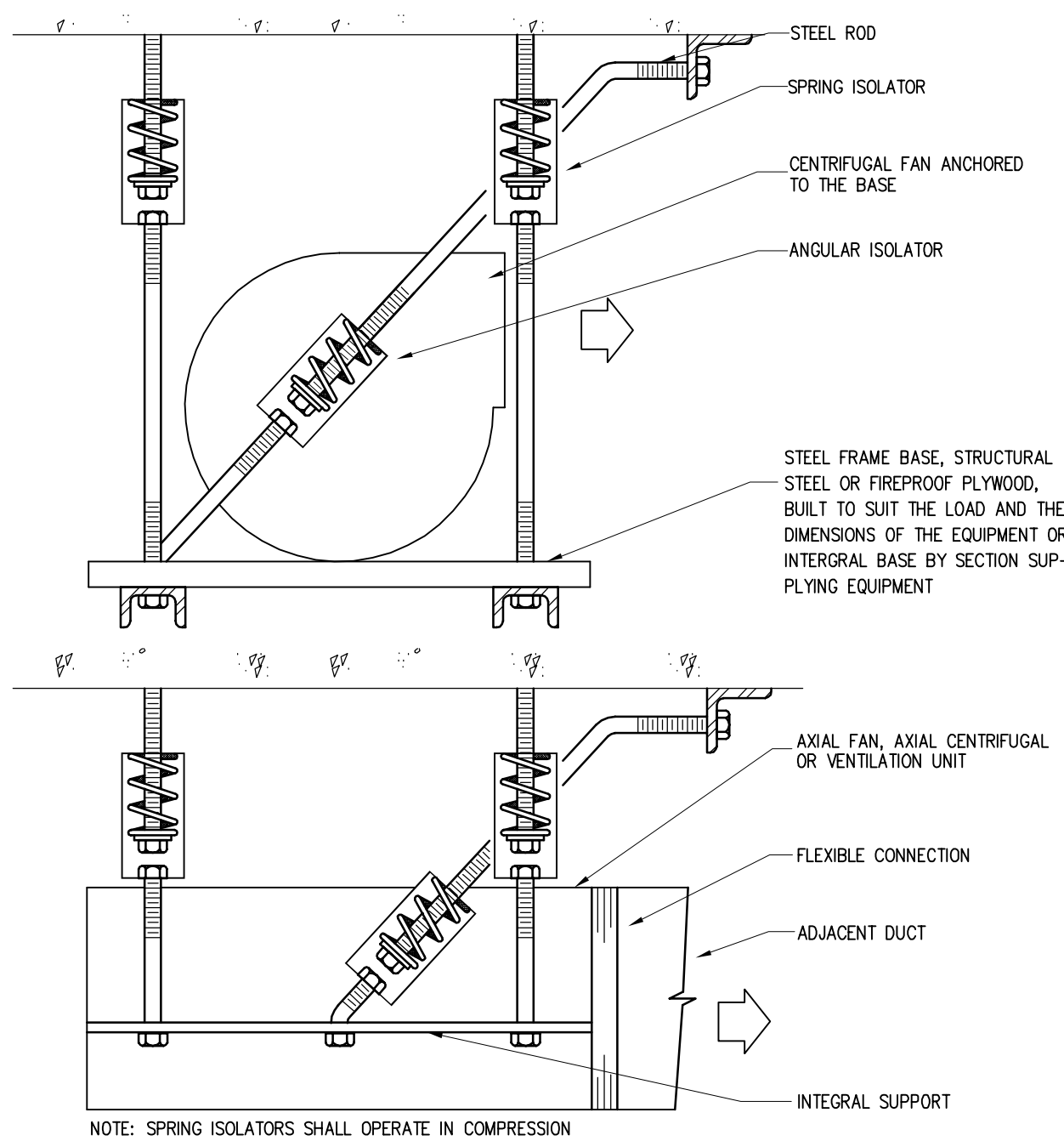


DIMENSIONS mm (in)	SHEET THICKNESS mm (CAL. US)	JOINT TYPE	\"/>
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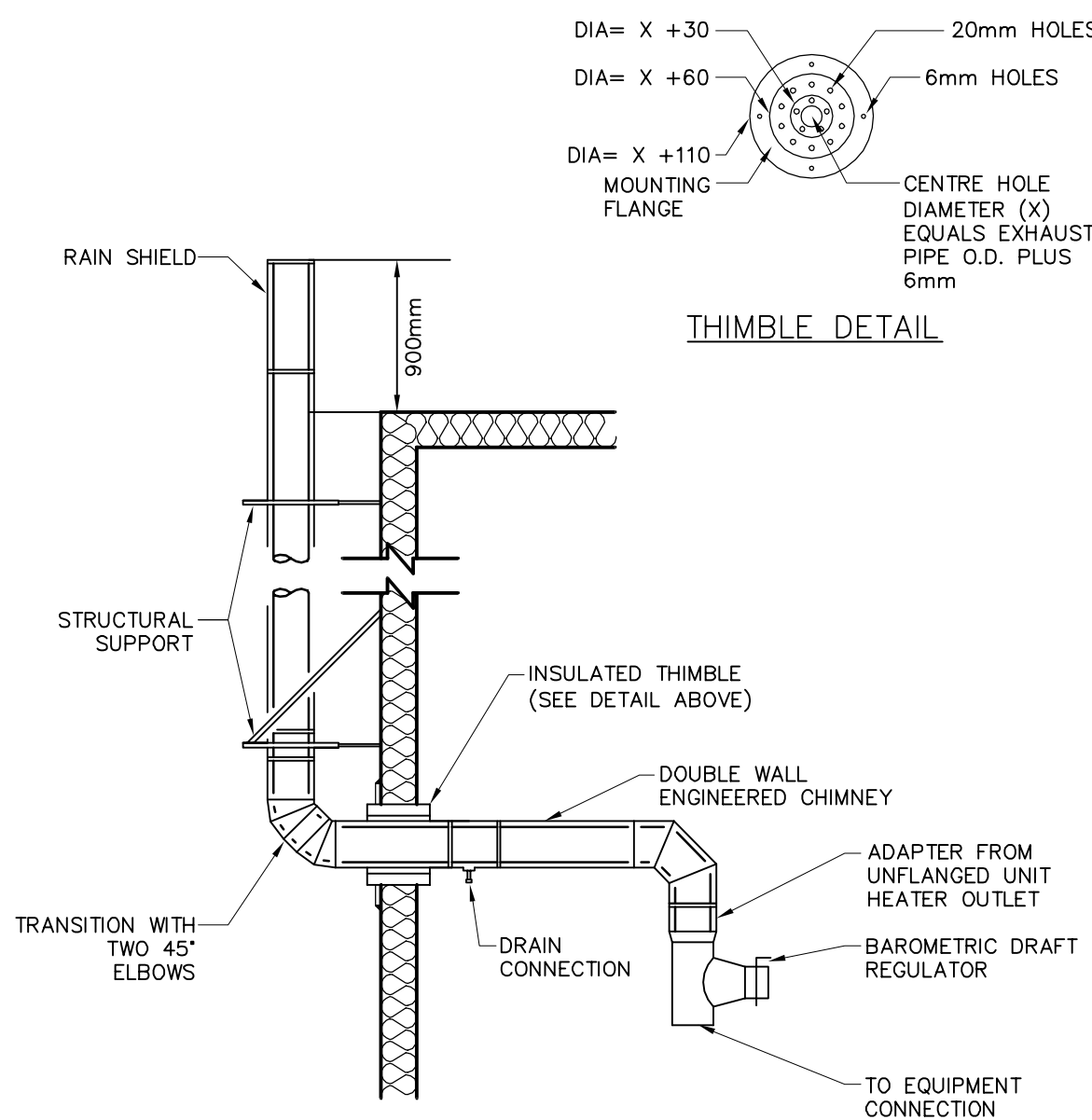
CROSS JOINT AND REINFORCEMENT FOR LOW PRESSURE RECTANGULAR DUCT
(NTS)



SEALED JOINT FOR LOW PRESSURE RECTANGULAR DUCT
(NTS)



SUSPENDED EQUIPMENT (TYPE VI)
(NTS)



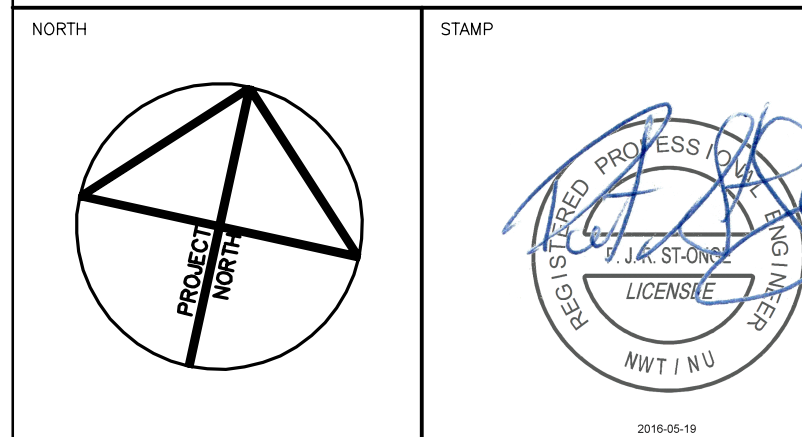
UNIT HEATER CHIMNEY DETAIL
(NTS)



PERMIT TO PRACTICE
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CLIENT
GOVERNMENT OF NUNAVUT
DEPARTMENT OF COMMUNITY
AND GOVERNMENT SERVICES

PROJECT
REPULSE BAY, NUNAVUT
NEW PUMPING STATION

TITLE
MECHANICAL
DETAILS

design by	P.C.	project no.	8012-099
drawn by	Y.G.	drawing no.	M101
checked by	P.S.O.		
date	DECEMBER 2014		
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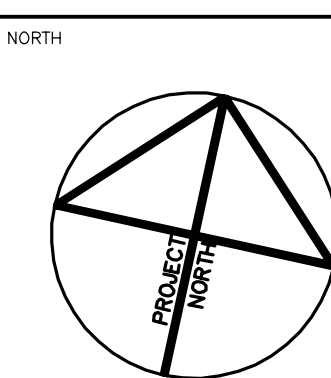
- ① LAYOUT OF CHEMICAL FEED PIPING (CF-N) IS SHOWN SCHEMATICALLY FOR CLARITY. COORDINATE FINAL LAYOUT ON SITE.
- ② THE PLAN VIEW, ELEVATION VIEWS AND SCHEMATIC DIAGRAM ON DRAWING M201 AND M202 ARE COMPLEMENTARY AND COVER ALL COMPONENTS AND ACCESSORIES REQUIRED.
- ③ THE CONTRACTOR SHALL PRODUCE PIPE FABRICATION AND ERECTION DRAWINGS, COMPLETE WITH LIST OF EQUIPMENT FOR REVIEW BY ENGINEER PRIOR TO ANY CONSTRUCTION.

- 1 PROVIDE NPS ½ DCW AND DHW PIPING TO EW-01, SK-01, & SK-02 C/W THERMOSTATIC MIXING VALVE NEAR OUTLET OF WH-01.
- 2 WH-01 SUSPENDED AT 200MM ABOVE FLOOR PLATE. DWP-01 INSTALLED BELOW ON FLOOR PLATE. REFER TO SUSPENDED EQUIPMENT DETAIL W101.
- 3 INSTALL SP-02 DIRECTLY BENEATH SERVICE SINK SK-01. PER DRAIN AND DRAIN SK-01, SK-02 AND EW-01 DIRECTLY INTO SP-02 TANK.
- 4 PROVIDE NPS ¾ HOSE BIB CONNECTION NEAR OUTLET OF DWP-01.
- 5 PIPE NPS ½ DRAIN FROM CC-01, CC-02 & CC-03 BACK TO SUMP PIT CONTAINING THE SUMP PUMP SP-02.
- 6 CONNECT PIPE TO TRUCK FILL ARM WITH FLEXIBLE JOINT. SEE DETAIL ON STRUCTURAL DRAWING 54.
- 7 SUPPLY AND INSTALL HIGH LEVEL INDICATOR SWITCH COMPLETE WITH RED LIGHT FOR EXTERIOR INSTALLATION. INSTALL SWITCH IN SEWAGE TANK.
- 8 LOCATION FOR THE INSTALLATION OF SEWAGE TANK LEVEL INDICATOR LIGHT.
- 9 TRENCH DRAIN
- 10 NPS 4 CAPPED FLANGE CONNECTION FOR FUTURE USE.

- ① INTAKE SHAFT TO MAIN WATER PUMPS WP-01 & WP-02 FROM FLANGE.
- ② SPACE AVAILABLE FOR FUTURE CARBON FILTRATION SYSTEM. CARBON FILTRATION SYSTEM MUST NOT PRECEED CHLORINE ADDITION AFTER FILTRATION.
- ③ CHLORINE CONTACT PIPE.
- ④ FLANGED CONNECTION POINT TO CHLORINE CONTACT PIPE. REFER TO DETAIL A ON DRAWING M201 AND DETAIL C ON DRAWING M202.
- ⑤ PROVIDE ADEQUATE SUPPORT FOR THE BASKET FILTER. FILTER TO BE ANCHORED TO THE FLOOR USING A SUPPORT STAND.
- ⑥ NPS 3 SEWAGE TANK DRAIN LINE WITH CAMLOCK CONNECTION.
- ⑦ VENT CAP TO BE REMOVED (FOR SEWAGE TANK VENTING PURPOSE).
- ⑧ NPS 3 PIPING TOWARDS THE SAMPLE COLLECTING STATION; TREATED WATER STATION. REFER TO DETAIL 1 ON DRAWING M202.
- ⑨ NPS 3 PIPING TOWARDS THE SAMPLE COLLECTING STATION; RAW WATER STATION. REFER TO DETAIL 1 ON DRAWING M202.
- ⑩ FLOAT SWITCH



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Date: 2016-05-18
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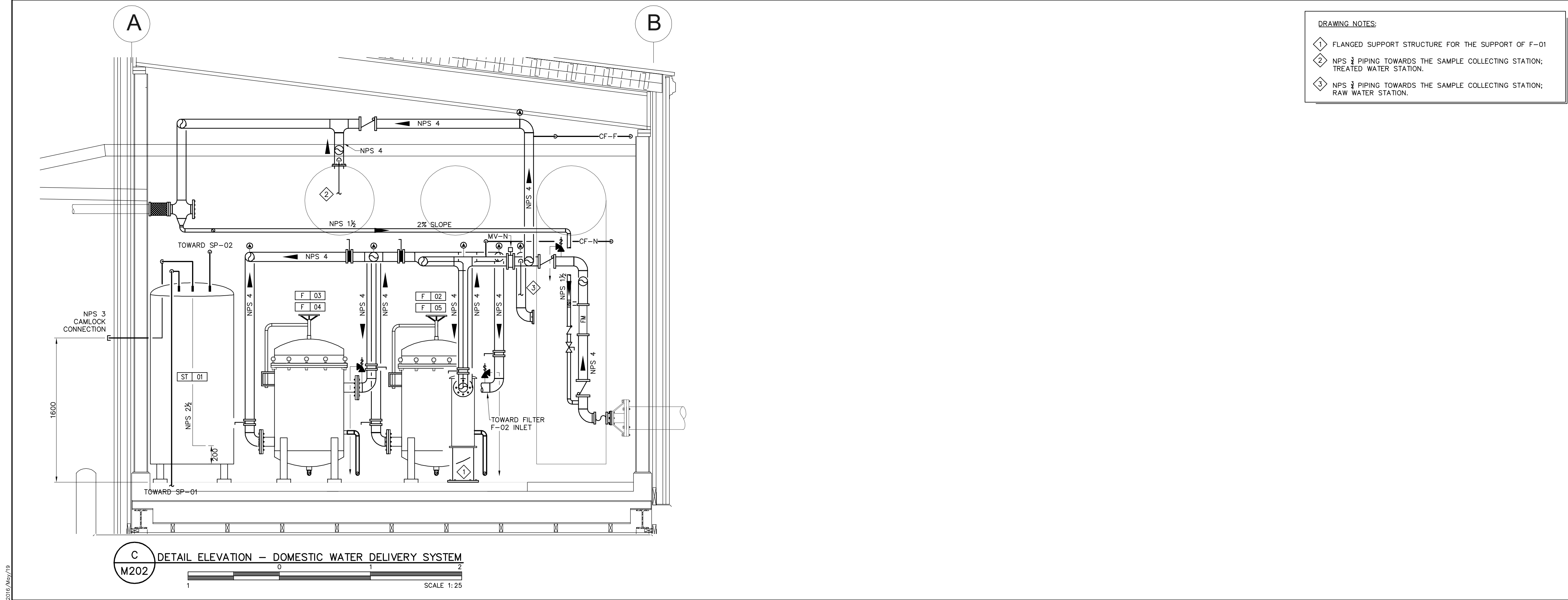
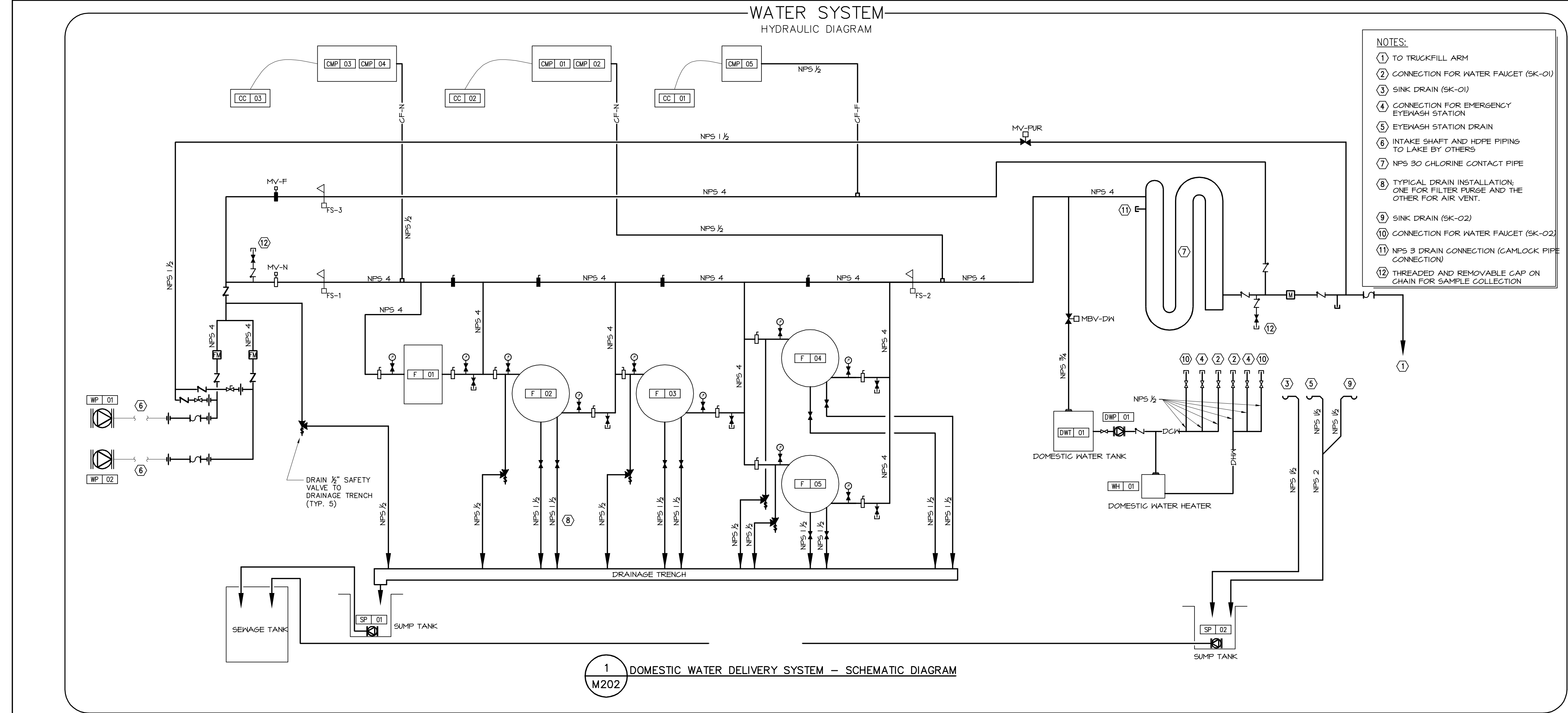
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DEPARTMENT OF COMMUNITY
AND GOVERNMENT SERVICES

PROJECT

REPULSE BAY, NUNAVUT
NEW PUMPING STATION

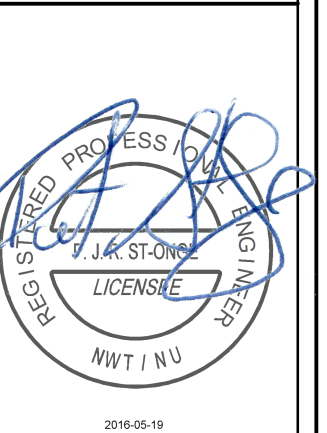
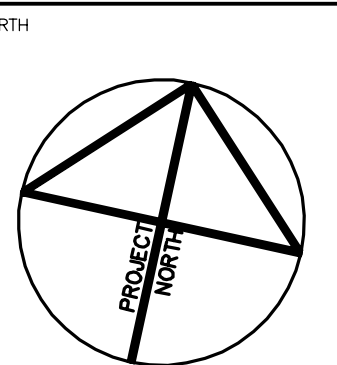
TITLE	MECHANICAL PLUMBING LAYOUT
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design by	P.C.	project no. 8012-095 drawing no. M200
drawn by	Y.G.	
checked by	P.S.O.	
date	DECEMBER 2014	
	1:25	



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BOUTHILLETTE PARIZEAU INC.

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Date: 2016-05-18
PERMIT NUMBER: P717
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PROJECT
REPULSE BAY, NUNAVUT
NEW PUMPING STATION

TITLE
MECHANICAL
PLUMBING SCHEMATIC
& ELEVATION DETAIL

design by	P.C.	project no.	8012-099
drawn by	Y.G.		
checked by	P.S.O.		
date	DECEMBER 2014		
	AS SHOWN		

M202

- GENERAL NOTES:
- 1 REFER TO FUEL SYSTEM SCHEMATIC ON DRAWING M-301, FOR ALL OIL ACCESSORIES.
 - 2 REFER TO ELEVATION DETAIL ON DRAWING M-301, FOR THE MAIN FUEL TANK PIPING LAYOUT.
 - 3 GATHER NEXT TO EACH OTHER ALL PIPING PENETRATING THE EXTERIOR WALL IN ORDER TO REDUCE THE WALL OPENING. REFER TO STRUCTURAL PLANS FOR DETAIL.

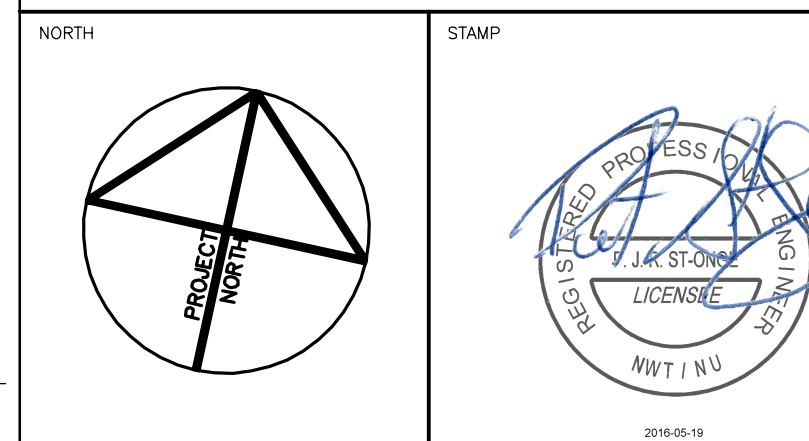
- DRAWING NOTES:
- 1 REFER TO STRUCTURAL PLANS FOR EXTERIOR PIPE SUPPORT STRUCTURE. ALL SUPPORT RINGS, HANGERS AND ACCESSORIES TO BE PROVIDED BY PRESENT SECTION.
 - 2 INSTALL EXTERIOR LEVELOMETER WIRING INSIDE A NPS 2 BLACK STEEL PIPE.
 - 3 CONCRETE SLAB TO BE PROVIDED BY PRESENT SECTION. REFER TO DETAIL ON DRAWING M100.
 - 4 VACCUM BREAKER / VENT AS REQUIRED BY MANUFACTURER.
 - 5 INSTALL EXTERIOR CONTROL WIRING INSIDE A NPS 2 BLACK STEEL PIPE. INSIDE TO BE EMT ALL THE WAY TO CONTROL ALARM PANEL.



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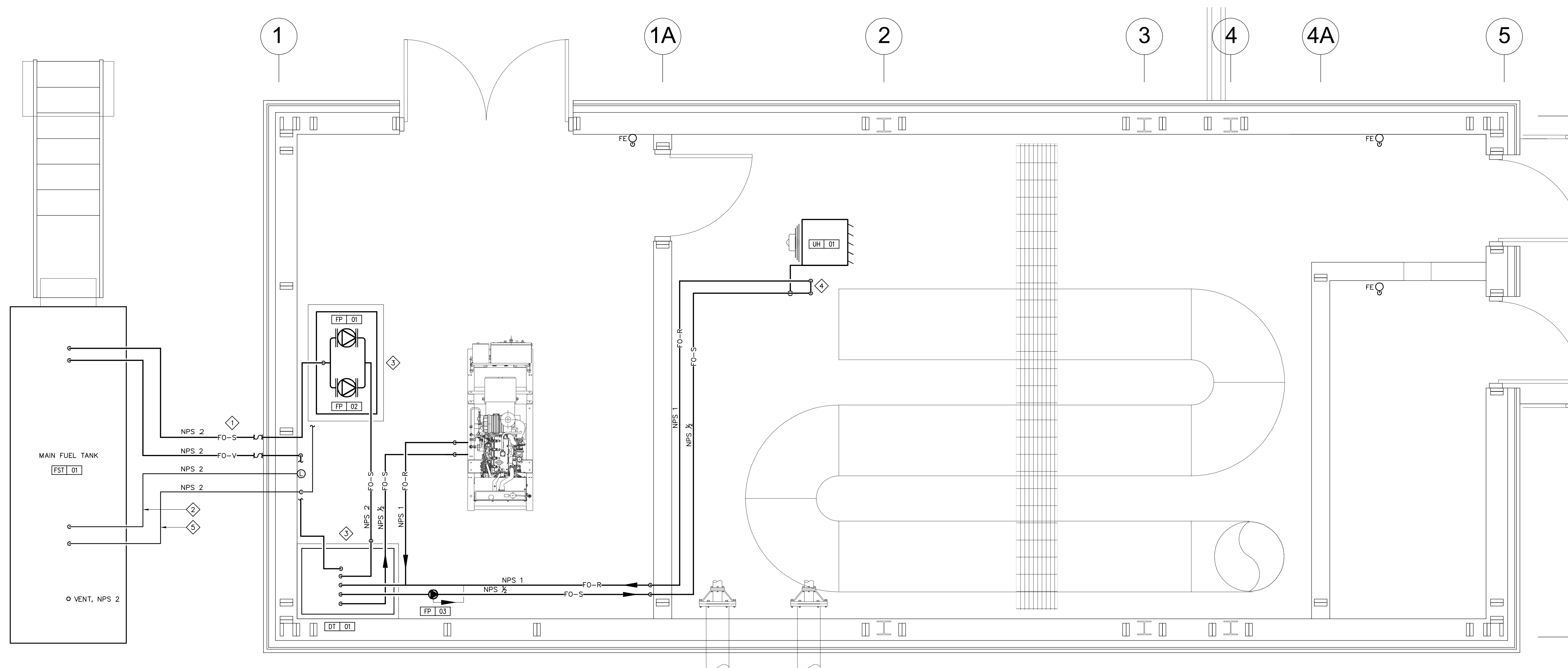


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PROJECT
REPULSE BAY, NUNAVUT
NEW PUMPING STATION

TITLE
MECHANICAL
FUEL SYSTEM LAYOUT

design by	P.C.	project no.	8012-099
drawn by	Y.G.	drawing no.	M300
checked by	P.S.O.		
date	DECEMBER 2014		
	1:25		



1 FUEL PIPING - NEW LAYOUT
M300
SCALE 1:25

FUEL SYSTEM SCHEMATICS
PIPING AND CONTROLS SCHEMATICS

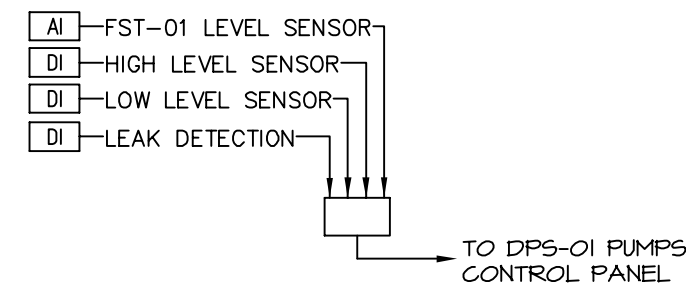
NOTES:

- 1 DOUBLE WALL MAIN FUEL STORAGE TANK
- 2 FST-01 FILL/VENT CONNECTION C/M LOCKING CAP (NPS-2)
- 3 FST-01 INSPECTION PORT
- 4 FUEL SUPPLY LINE TO GENERATOR'S DAY TANK (ALL NPS-3)
- 5 FUEL TANK VENT C/M VENT WHISTLE (NPS-2)
- 6 FUEL VENT LINE FROM GENERATOR'S DAY TANK (ALL NPS-2)
- 7 DAY TANK
- 8 STAINLESS STEEL FLEXIBLE CONNECTION. CONNECT TO FUEL SUPPLY AND RETURN CONNECTIONS ON ENGINE.
- 9 REFER TO MANUFACTURER INSTRUCTIONS FOR THE SUPPLY OF OIL TO THE UNIT HEATER.

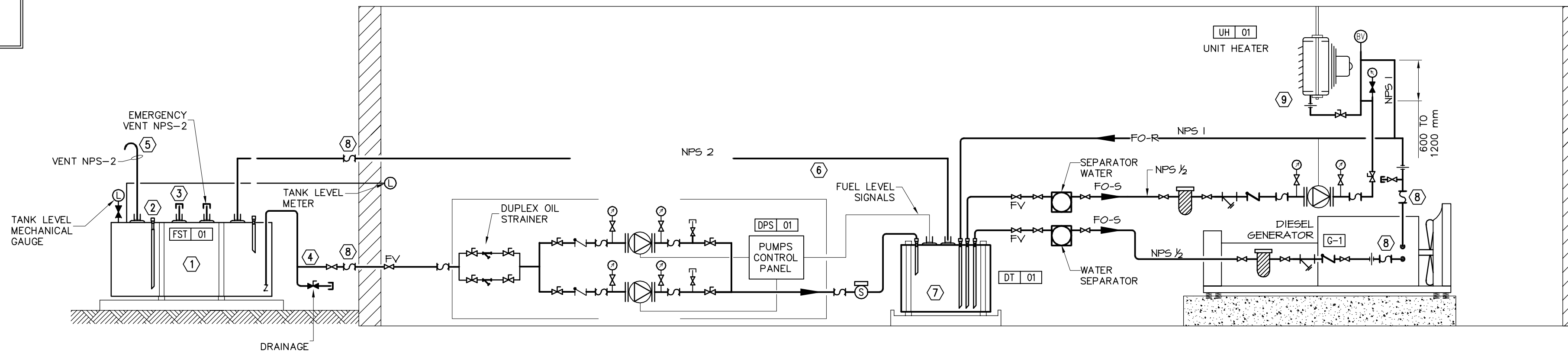
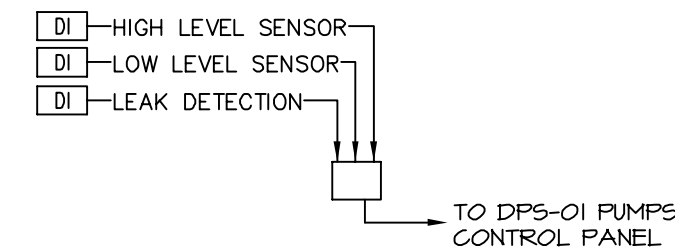
GENERAL NOTE:

THE SCHEMATIC DRAWING SHOWS DETAILS OF THE CONTROLS LAYOUT, EQUIPMENT CONNECTIONS AND PIPING COMPONENTS OF THE SYSTEM. REFER TO DRAWING M300 FOR DETAILS ON THE PIPING LAYOUT AND LOCATION OF EQUIPMENT.

FST-01 CONTROLS



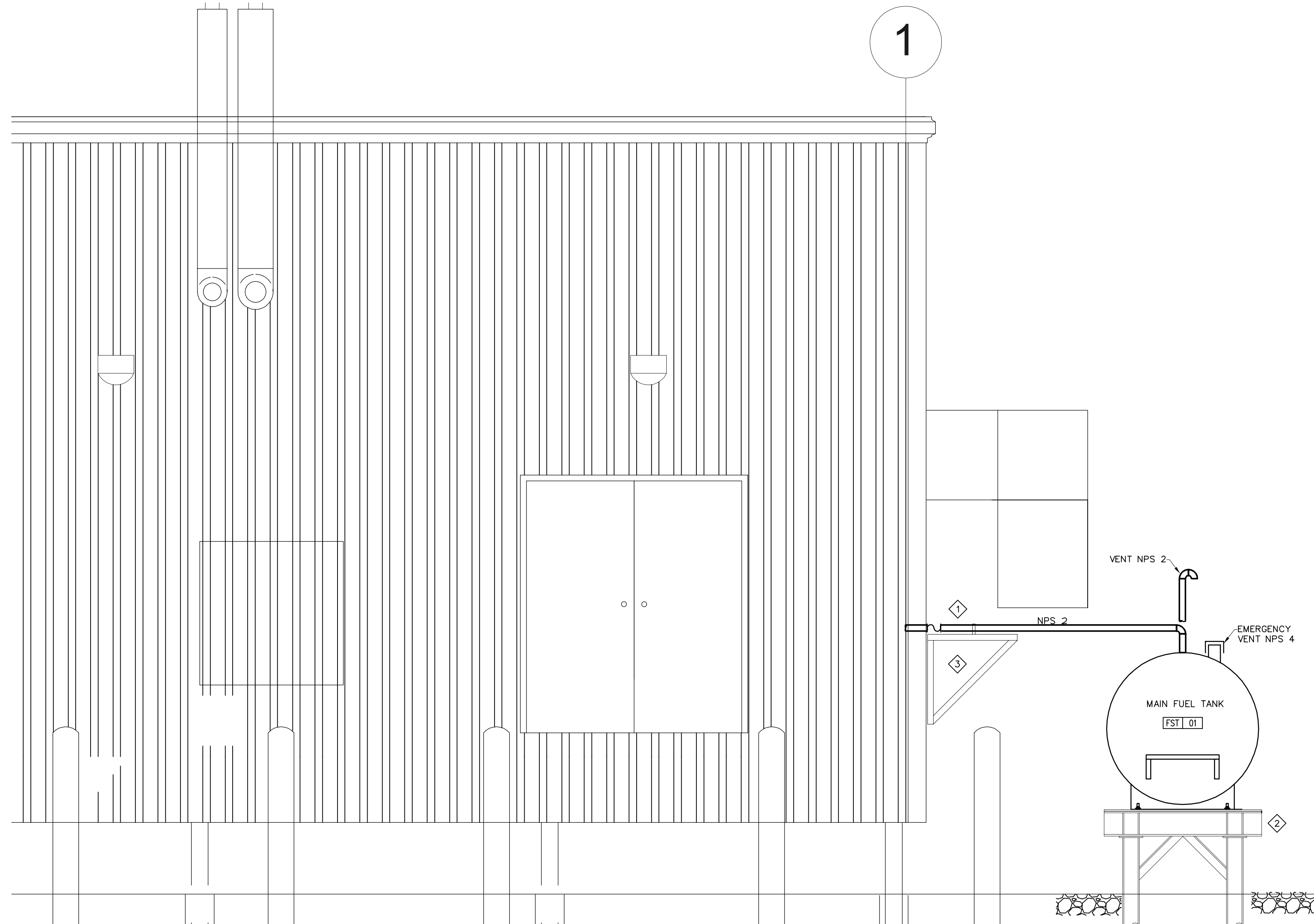
DAY TANK CONTROLS



DRAWING NOTES:

- 1 REFER TO DRAWING M-300 FOR PIPING LAYOUT. ALL PIPING INSTALLED AT SAME HEIGHT. PROVIDE NECESSARY STEEL CLAMPS TO SECURE PIPING TO THE SUPPORT STRUCTURE PROVIDED BY STRUCTURAL.
- 2 STAIRS AND STEEL STRUCTURE FOR FUEL TANK PROVIDED BY STRUCTURE.
- 3 REFER TO STRUCTURAL PLANS FOR THE PIPE SUPPORT STRUCTURE.

1



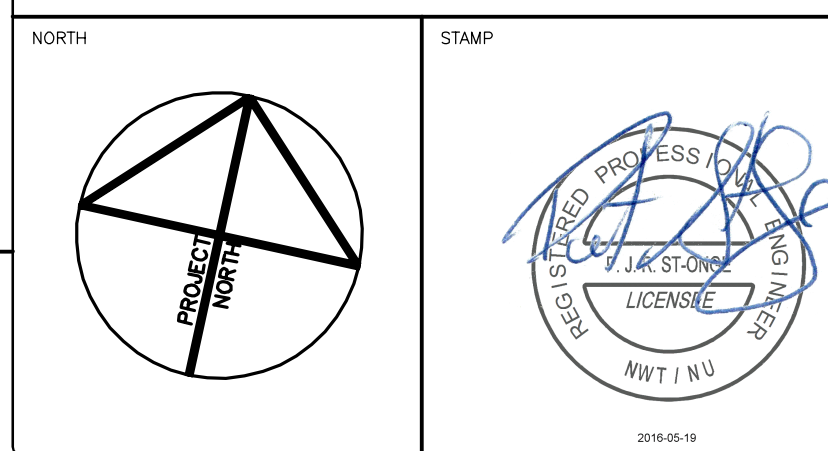
1 NORTH ELEVATION - MAIN FUEL TANK
M301
SCALE 1:25



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Signature: *[Signature]*
Date: 2016-05-18

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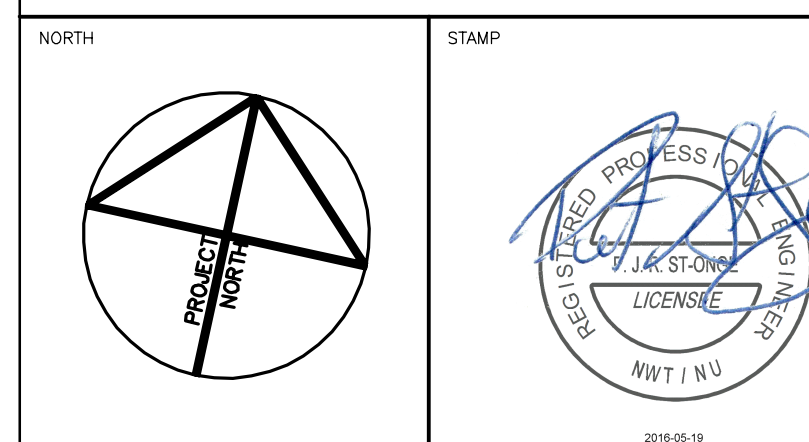
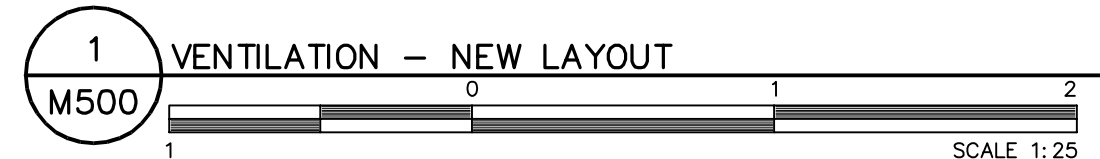
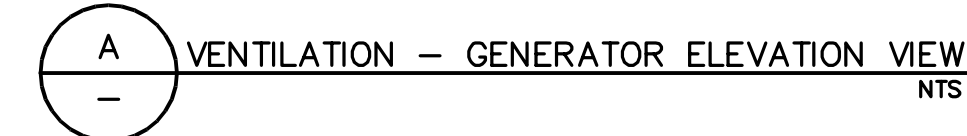
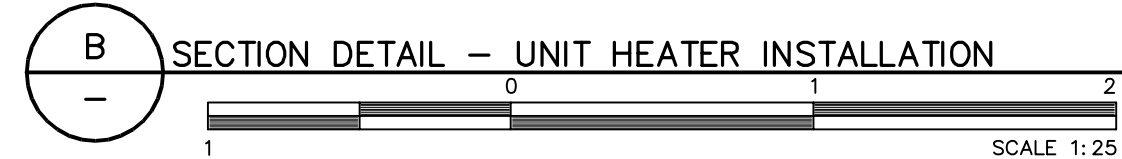


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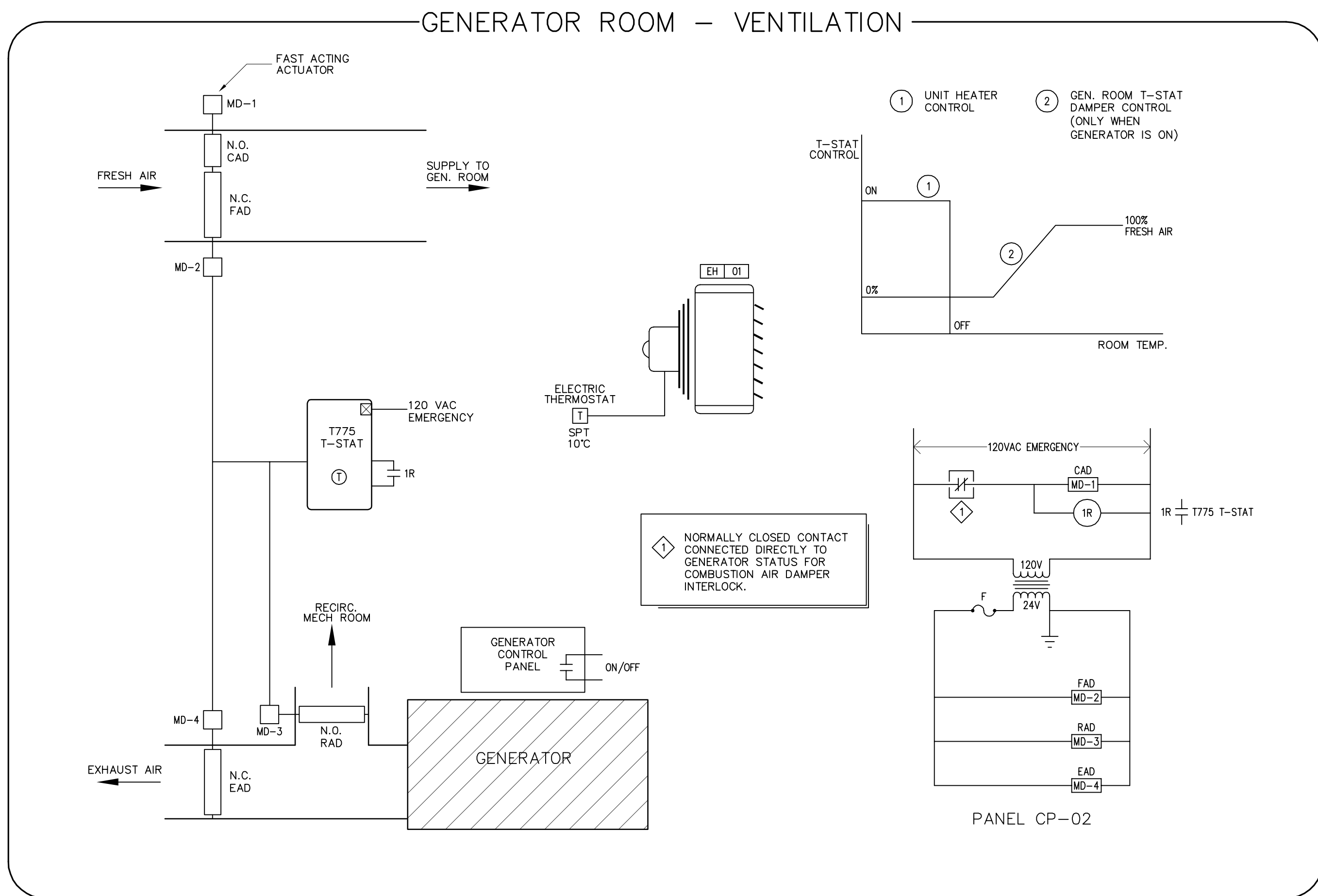
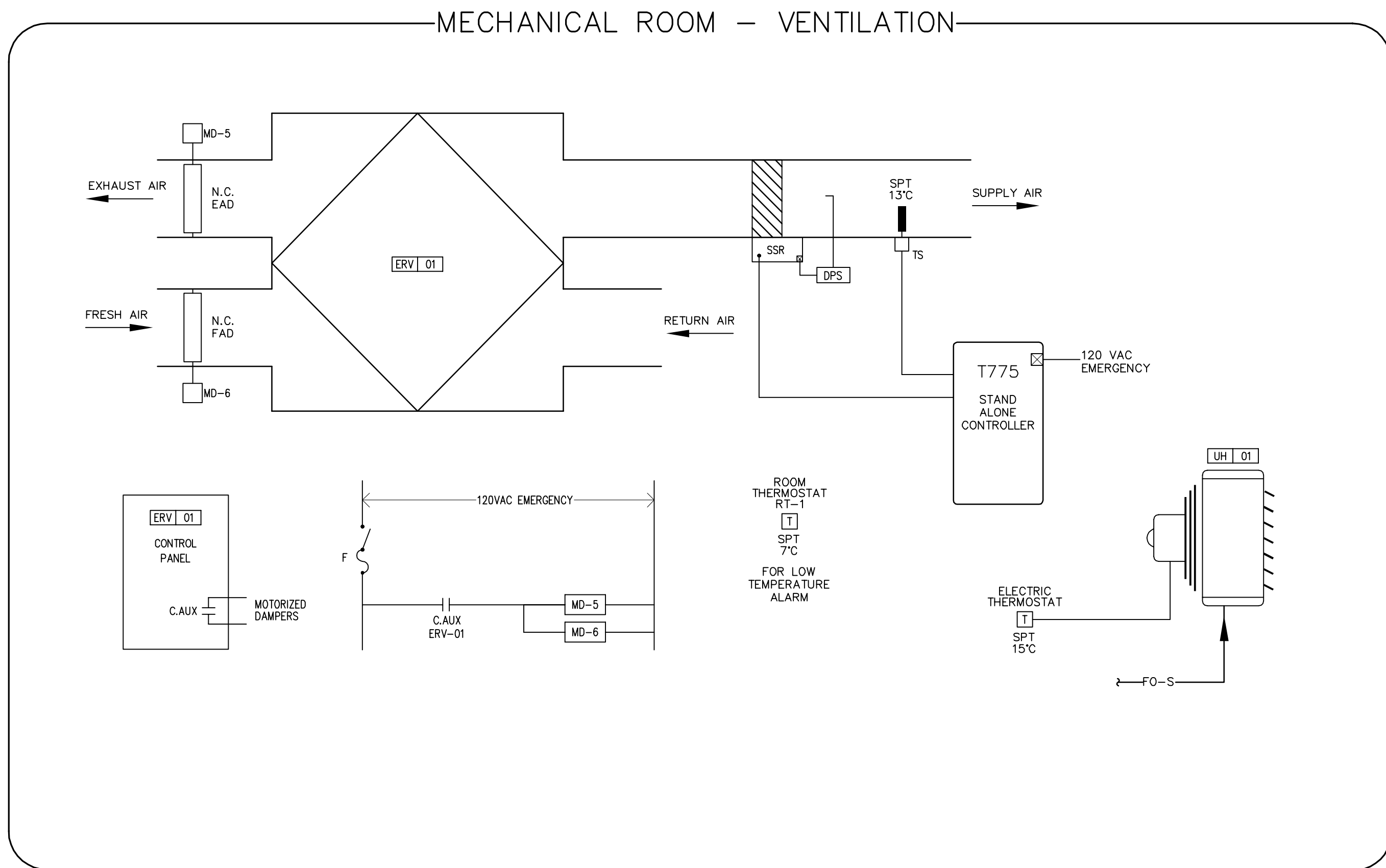
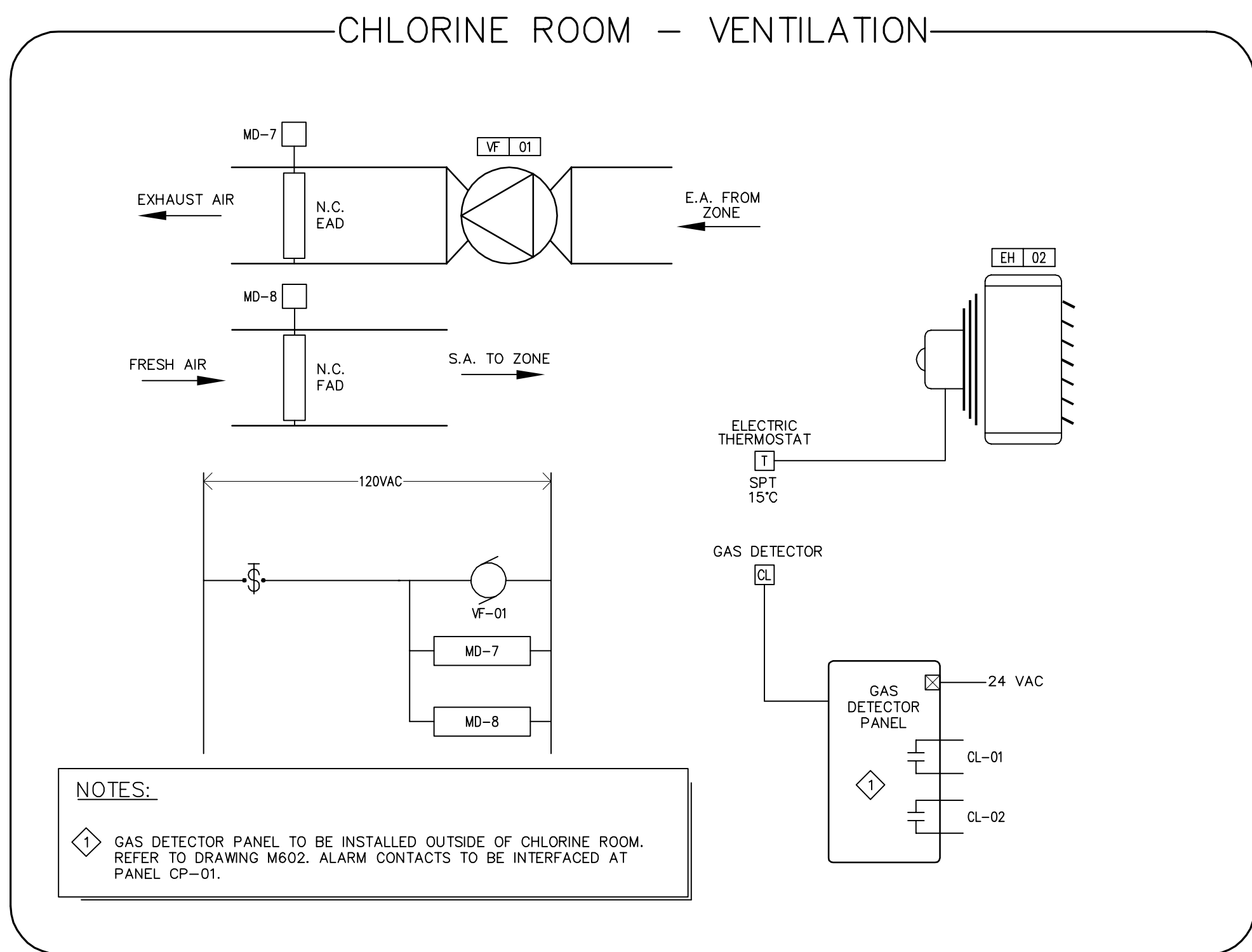
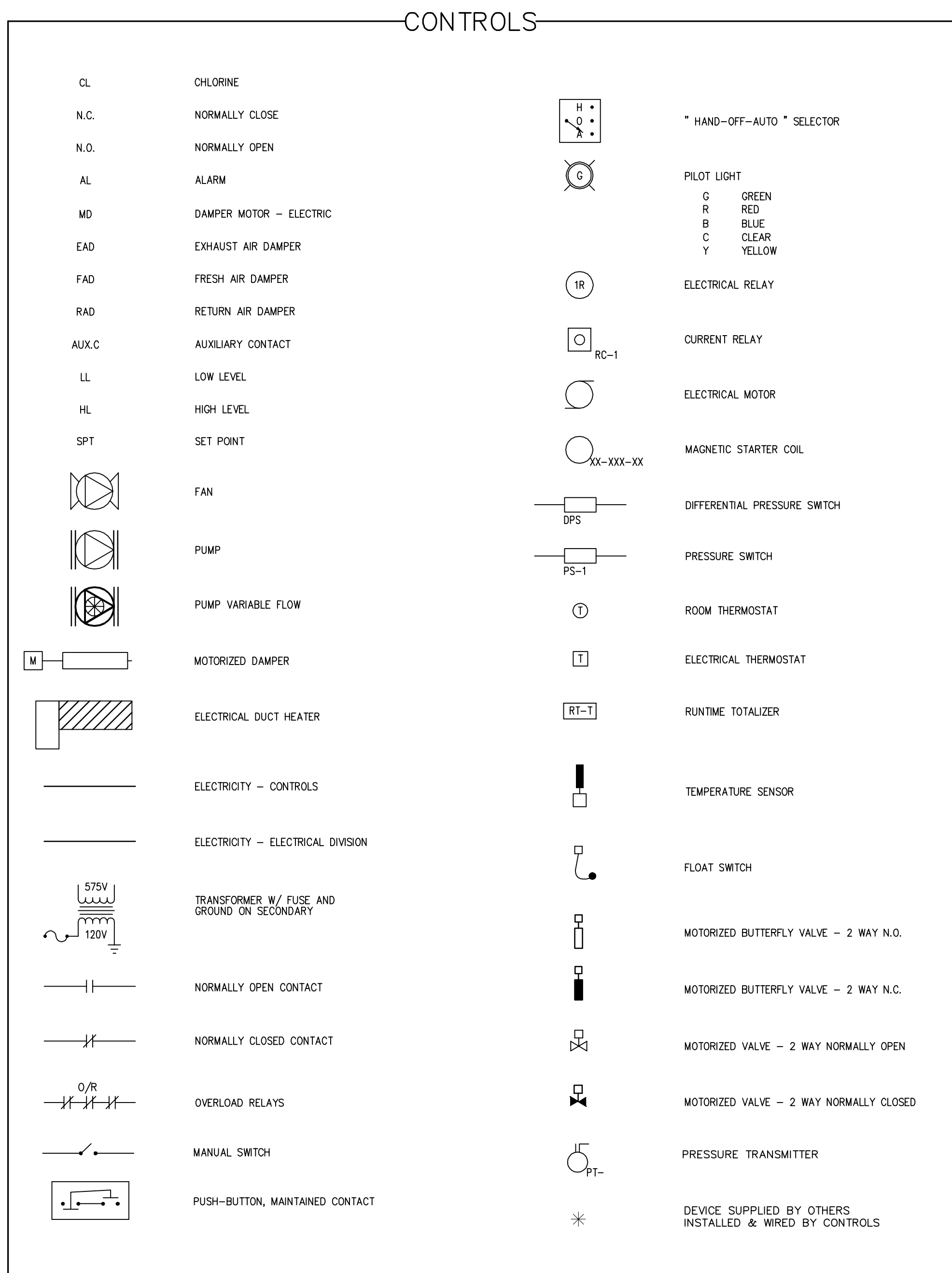
PROJECT
REPULSE BAY, NUNAVUT
NEW PUMPING STATION

TITLE
MECHANICAL
PLUMBING SCHEMATIC
& NORTH ELEVATION

design by	P.C.	project no.	8012-099
drawn by	Y.G.	drawing no.	M301
checked by	P.S.O.		
date	DECEMBER 2014		
	AS SHOWN		



design by	P.C.	project no. 8012-099 drawing no. M500
drawn by	Y.G.	
checked by	P.S.O.	
date	DECEMBER 2014	
AS SHOWN		

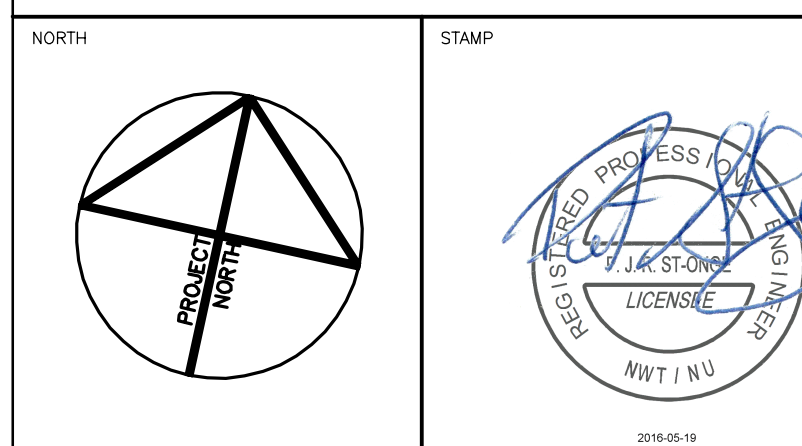


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PROJECT
**REPULSE BAY, NUNAVUT
NEW PUMPING STATION**

TITLE
**MECHANICAL
CONTROLS SCHEMATICS**

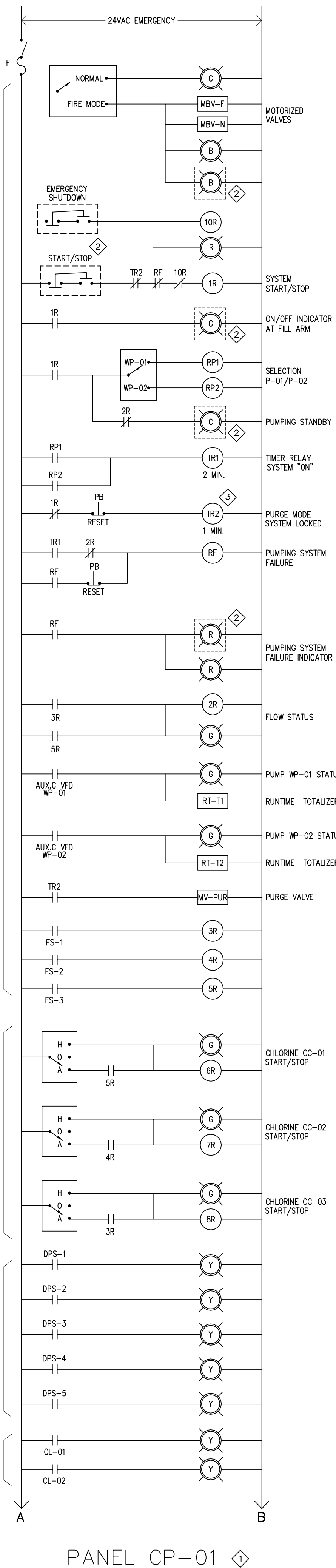
design by	L.P.	project no.	8012-099
drawn by	L.P.	drawing no.	M600
checked by	P.S.O.		
date	DECEMBER 2014		
	N.T.S.		

WATER SYSTEM

CHLORINE CONTROLLERS

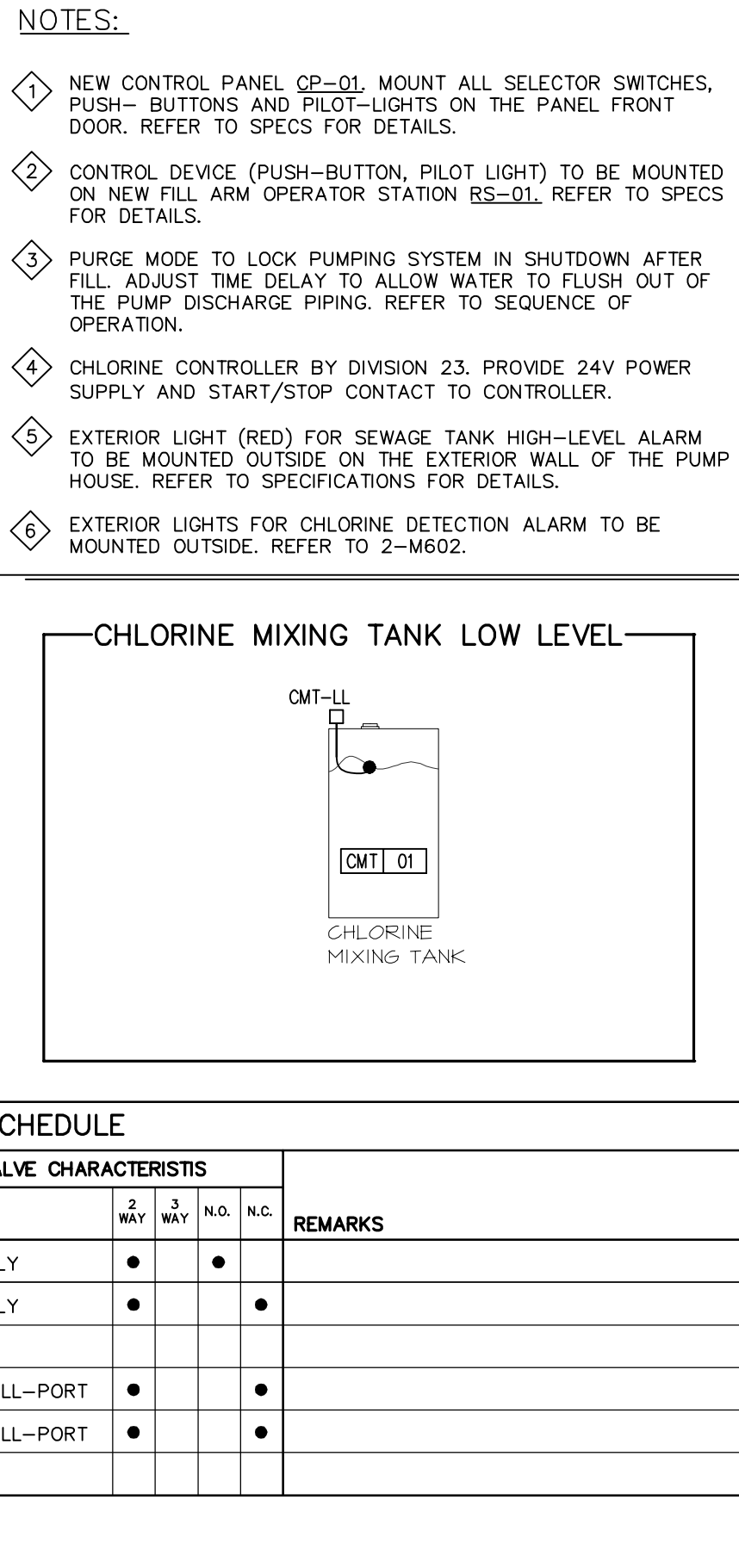
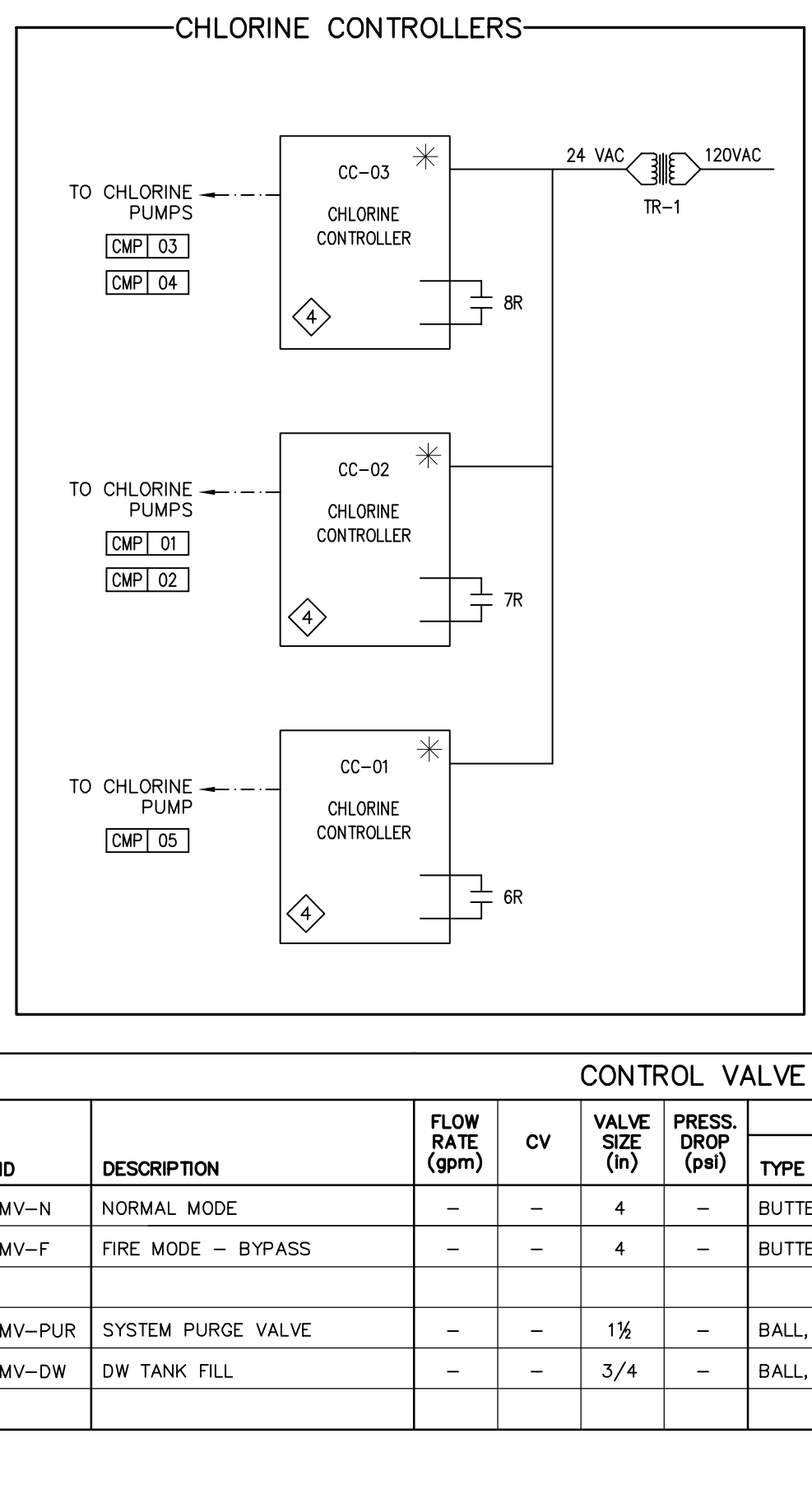
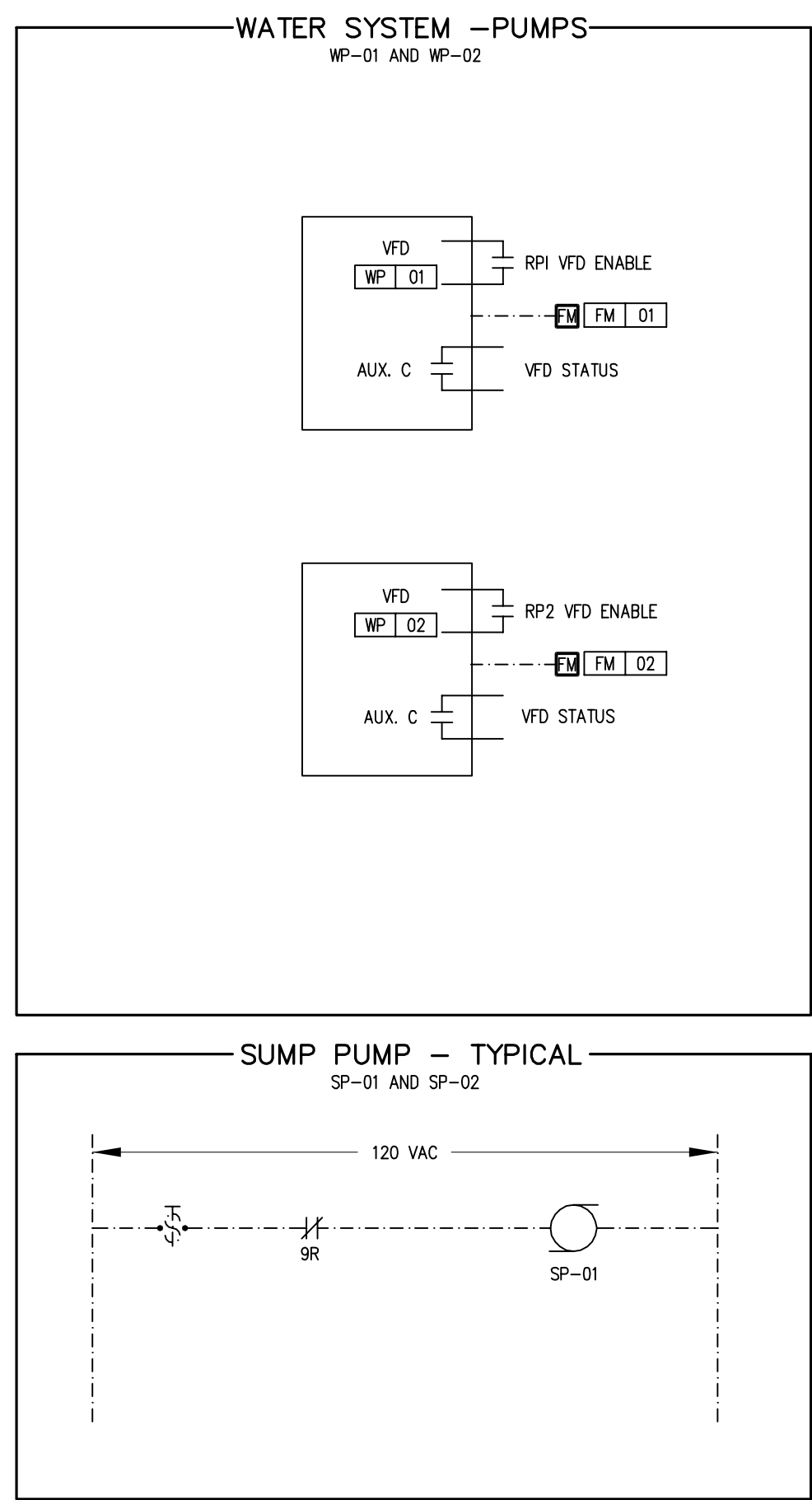
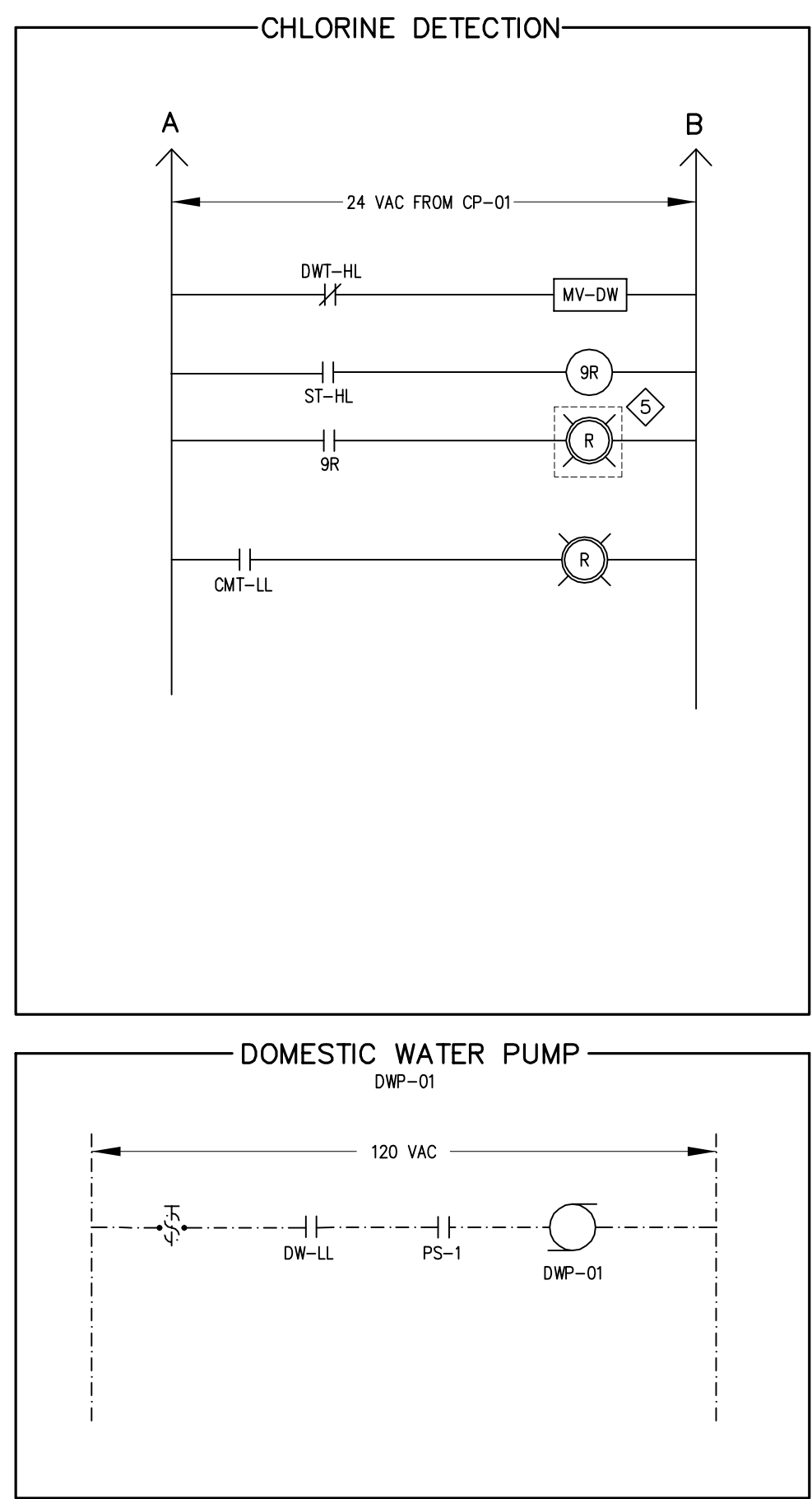
FILTERS

CHLORINE DETECTION

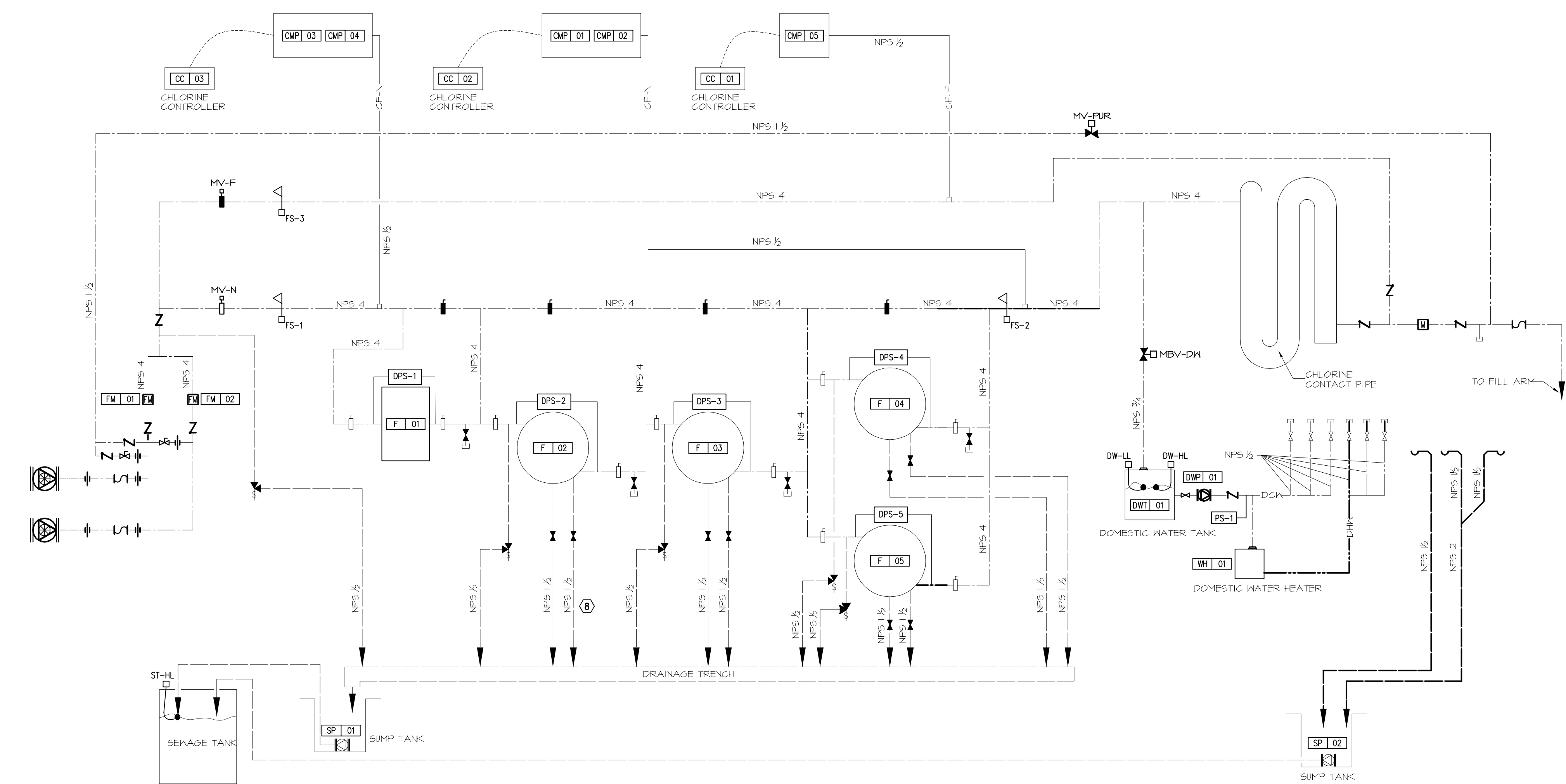


PANEL CP-01

WATER SYSTEM – CONTROLS DIAGRAM



CONTROL VALVE SCHEDULE										
ID	DESCRIPTION	FLOW RATE (gpm)	CV	VALVE SIZE (in)	PRESS. DROP (psi)	VALVE CHARACTERISTICS				REMARKS
						TYPE	2 WAY	3 WAY	N.O.	
MV-N	NORMAL MODE	—	—	4	—	BUTTERFLY	●	●		
MV-F	FIRE MODE — BYPASS	—	—	4	—	BUTTERFLY	●		●	
MV-PUR	SYSTEM PURGE VALVE	—	—	1½	—	BALL, FULL-PORT	●		●	
MV-DW	DW TANK FILL	—	—	3/4	—	BALL, FULL-PORT	●		●	



PERMIT TO PRACTICE
BOUTHILLETTE PARIZEAU INC.

Signature:

Date: 2016-05-18

PERMIT NUMBER: P717
NWT/NU Association of Professional Engineers and Geoscientists

NORTH

STAMP

NOTES: GENERAL CONTRACTOR TO VERIFY ALL DIMENSIONS WITH FINAL ARCHITECTURAL AND MECHANICAL DRAWINGS. NOTIFY THE ENGINEERS OF ANY ERRORS AND/OR OMISSIONS PRIOR TO CONSTRUCTION FOR DIRECTION. DO NOT SCALE THIS DRAWING.

REVISIONS				
No.	DESCRIPTION	DATE	BY	APP'D
1	ISSUED FOR CONSTRUCTION	2016/05/18	BPA	P.S.O.

Ottawa : 100-1960 Robertson Road, Suite 100, K2H 5B9
T.(613) 596.6454 F.(613) 596.3346
www.bpa.ca

Gatineau : 430 de l'hôpital bid, suite 210, J8V 1T7
T.(819) 778.2448 F.(819) 778.5031
Consulting Engineers



CLIENT
GOVERNMENT OF NUNAVUT
DEPARTMENT OF COMMUNITY AND GOVERNMENT SERVICES

PROJECT
REPULSE BAY, NUNAVUT
NEW PUMPING STATION

TITLE
MECHANICAL
CONTROLS SCHEMATICS

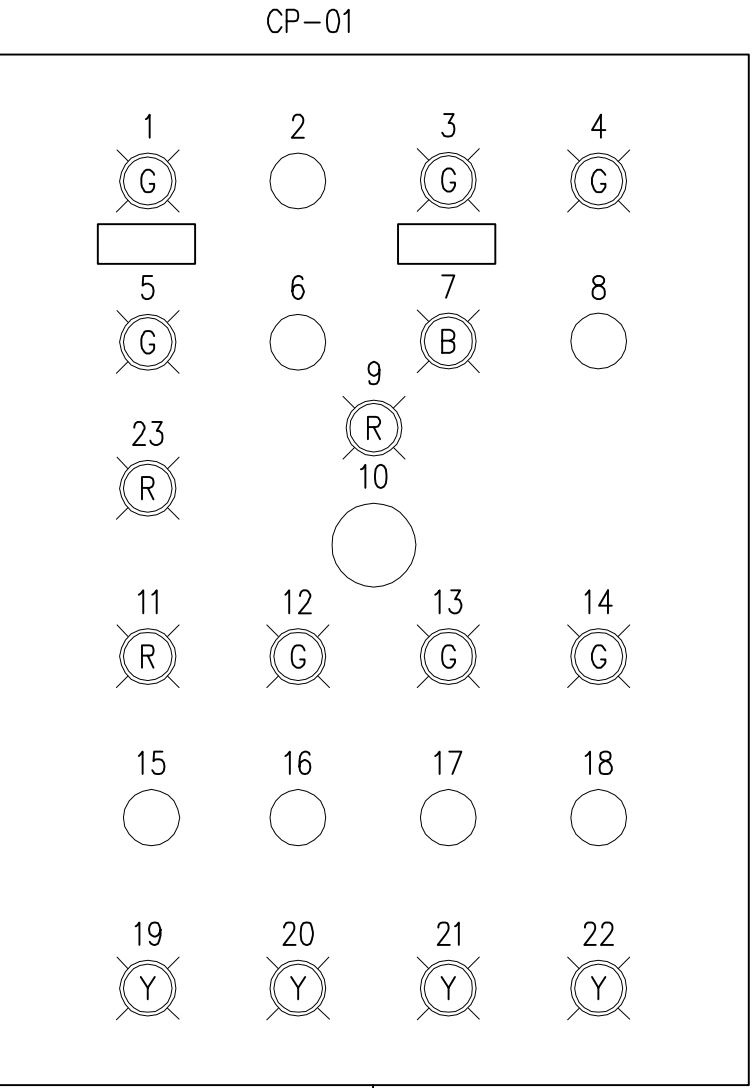
design by L.P. project no. 8012-099

drawn by L.P. drawing no. M601

checked by P.S.O.

date DECEMBER 2014

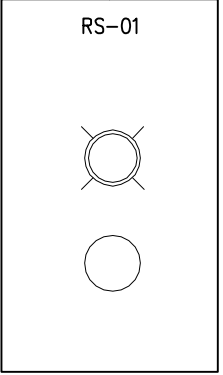
N.T.S.



MAIN CONTROL PANEL CP-01 TO BE INSTALLED INSIDE PUMP HOUSE.
REFER TO RELAY LOGIC AND SPECS FOR PANEL DETAILS.

CP-01 NOTES:

1. P1 STATUS
2. LEAD PUMP P1/P2 SELECTOR
3. P2 STATUS
4. FLOW STATUS
5. NORMAL MODE
6. NORMAL MODE/FIRE SELECTOR
7. FIRE MODE
8. MANUAL PURGE P.B.
9. EMERGENCY SHUTDOWN STATUS
10. EMERGENCY SHUTDOWN P.B.
11. PUMPING FAILURE ALARM
12. CC-01 STATUS
13. CC-02 STATUS
14. CC-03 STATUS
15. PUMPING FAILURE RESET P.B.
16. CC-01 H/O/A SELECTOR
17. CC-02 H/O/A SELECTOR
18. CC-03 H/O/A SELECTOR
19. FILTER 2 ALARM
20. FILTER 3 ALARM
21. FILTER 4 ALARM
22. FILTER 5 ALARM
23. CHLORINE MIXING TANK LOW LEVEL ALARM



REMOTE OPERATOR STATION RS-01 TO BE INSTALLED ON THE FILL
ARM OUTSIDE. REFER TO RELAY LOGIC AND SPECS FOR STATION
DETAILS.

1 CP-01 PANEL LAYOUT



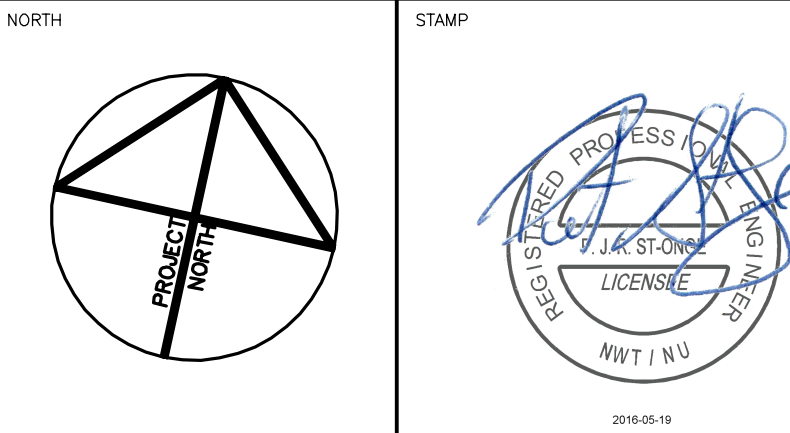
PERMIT TO PRACTICE
BOUTHILLETTE PARIZEAU INC.

Signature:

Date: 2016-05-18

PERMIT NUMBER: P717

NWT/NU Association of Professional
Engineers and Geoscientists



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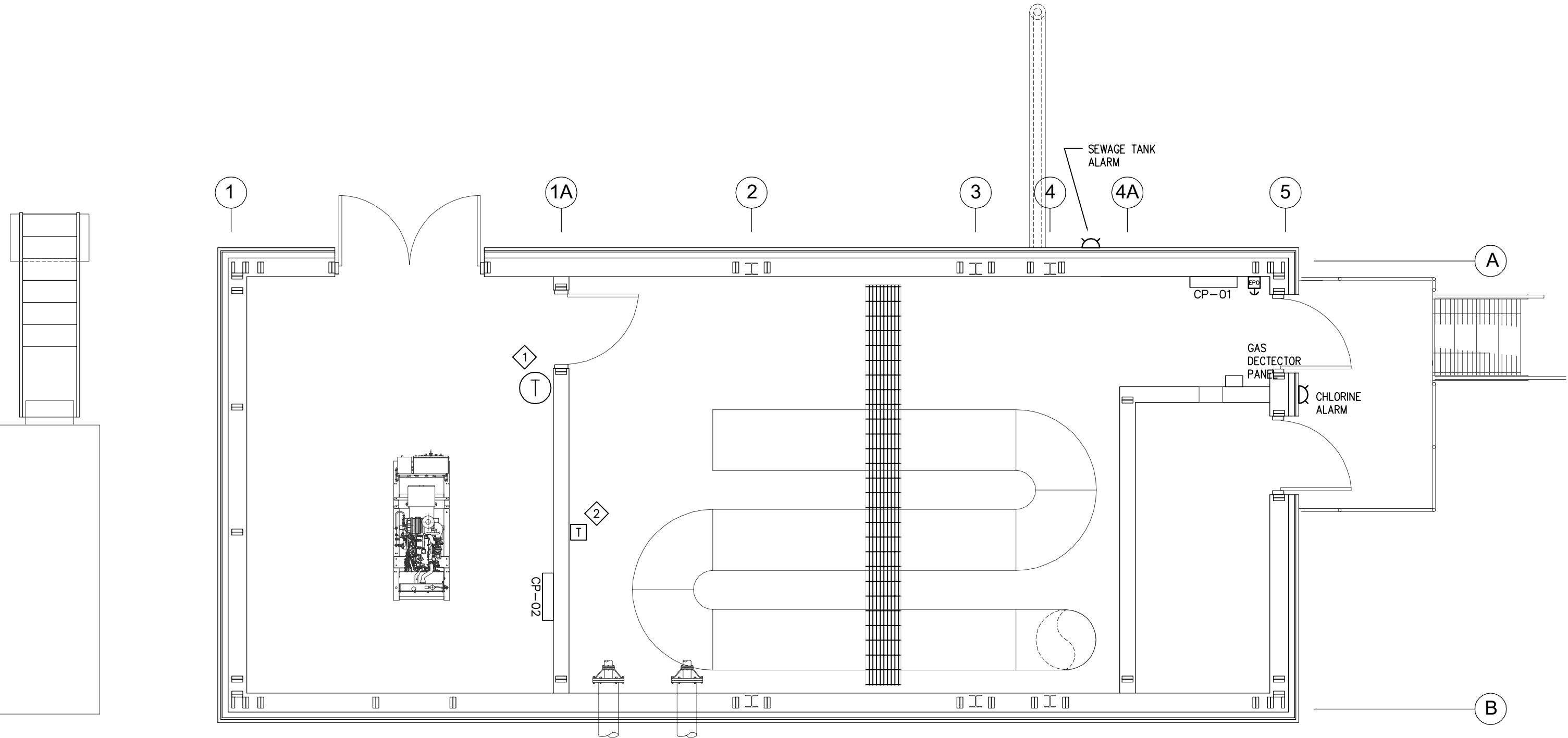


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DEPARTMENT OF COMMUNITY
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PROJECT
REPULSE BAY, NUNAVUT
NEW PUMPING STATION

TITLE
MECHANICAL
CONTROLS SCHEMATICS

design by	L.P.	project no.	8012-099
drawn by	L.P.	drawing no.	M602
checked by	P.S.O.		
date	DECEMBER 2014		
	N.T.S.		



NOTES:

1. T-775 THERMOSTAT/CONTROLLER
2. THERMOSTAT FOR ROOM LOW TEMPERATURE ALARM.

2 SYSTEM LAYOUT
SCALE 1:50