

# NUNAVUT, IQALUIT BULK FUEL STORAGE FARM UPGRADES

PROJECT NO: 5618



# ISSUED FOR TENDER

□UNE 19, 2017

LIST OF DRAWINGS		
DWGS #	DRAWING NAME	ISSUED
COVER PAGE		
001	COVER PAGE AND KEY PLAN	●
CIVIL		
C-101	EXISTING CONDITIONS AND DEMOLITION SITE PLAN	●
C-102	CIVIL SITE PLAN	●
C-501	CIVIL DETAILS	●
ELECTRICAL		
E-100	CABLE TRAY LAYOUT	●
E-101	POWER/INSTRUMENTATION	●
E-102	LIGHTING LAYOUT	●
E-103	GROUNDING LAYOUT	●
E-104	MAIN BUILDING - ELECTRICAL LAYOUT	●
E-200	CONTROL PANEL CP-01 - LAYOUT AND BOM	●
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E-300	ELECTRICAL DETAILS (1 OF 2)	●
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M-404	TANK 2 - ROOF STRUCTURAL PLAN	●
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M-501	DETAILS AND ISOMETRIC VIEWS	●
M-601	PIPING AND INSTRUMENTATION DIAGRAM - FUEL OIL SYSTEM	●



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Legend

## Notes

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Permit-Seal

<b>PERMIT TO PRACTICE</b> NUNAMI STATEEC LTD.	
Signature	
Date	19 JUNE 2017
<b>PERMIT NUMBER: P 1117</b> NT/NU Association of Professional Engineers and Geoscientists	

Client/Project  
Qulliq Energy Corporation

## Bulk Fuel Storage Farm Upgrades

Iqaluit, Nunavut

Title	Cover Page and Key Plan
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Project No.	Scale
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Drawing No.	Sheet	Revision
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001 of B








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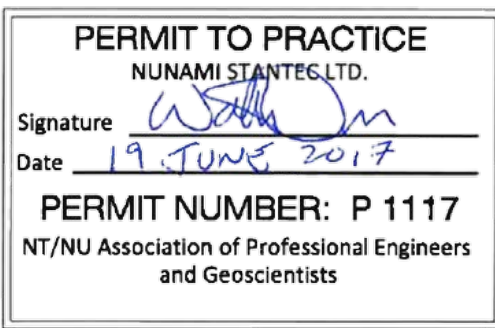
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	EDGE OF ROAD
	PIPE LINE
	FENCE
	CONTOURS
	LIMITS OF EXCAVATION

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## Notes

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Client/Project

Qulliq Energy Corporation

## Bulk Fuel Storage Farm Upgrades

Iqaluit, Nunavut

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Title

EXISTING CONDITIONS AND  
DEMOLITION SITE PLAN

Project No.

Scale  
1:250

Drawing No.

Sheet

Revision

C101

1

of 3

0

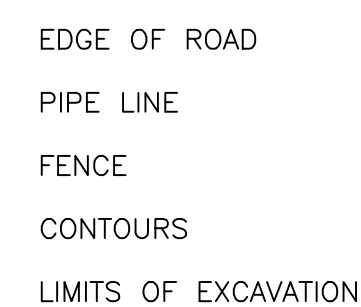


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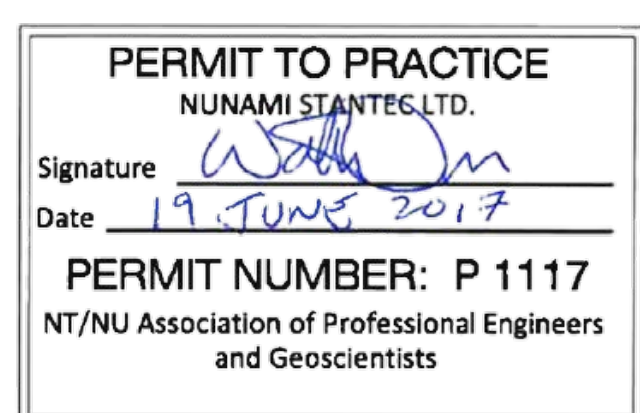


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Legend



Revision	By	Appd.	YYMMDD
ISSUED FOR TENDER	J.M.	W.O.	17.06.19
ISSUED FOR 95% REVIEW	A.B.	W.O.	17.05.31
ISSUED FOR 80% REVIEW	W.O	IF	17.04.21
Issued	By	Appd.	YYMMDD
File Name:			
	Draw.	Chkd.	Design
			YYMMDD



Qulliq Energy Corporation

## Bulk Fuel Storage Farm Upgrades

Iqaluit, Nunavut

title

CIVIL SITE PLAN

Project No.  
1440024/2Project No.  
144002462

Drawing No.

C102

Scale 1:250

Sheet

2 of 3

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Revision

0



## SPECIAL PIPING ITEMS

SP 001	BRADED 316L S.S. FLEXIBLE CONNECTOR
SP 002	Dn50 DRY BREAK VALVE
SP 003	Dn50 WATER DRAW-OFF VALVE W/ Dn80 FLANGE
SP 004	Dn250 EMERGENCY VENT
SP 005	Dn200 GAUGE INSPECTION HATCH
SP 006	Dn25 THERMAL RELIEF VALVE
SP 007	Dn250 FREE VENT

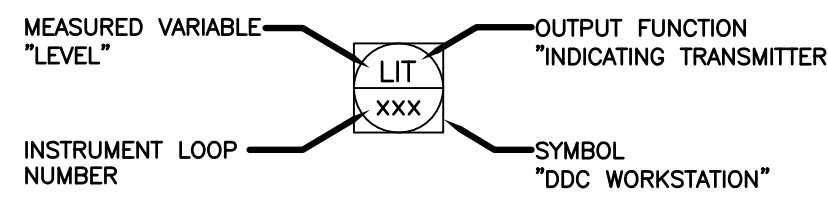
## VENT/OVERFLOW

506651-0100-4500-0015 SHT-1  
FROM INSIDE DAY TANKS #1 & #2

## GENERAL INSTRUMENT SYMBOLS

LOCATION/ACCESSIBILITY	INSTRUMENTS	SHARED DISPLAY AND CONTROL (DDC)	PLC	DISCRETE HARDWARE INTERLOCK
FIELD MOUNTED				
1. FIELD OR LOCALLY MOUNTED. 2. ACCESSIBLE TO AN OPERATOR AT DEVICE				
PRIMARY LOCATION NORMALLY ACCESSIBLE TO AN OPERATOR				
1. CENTRAL OR MAIN CONTROL ROOM. 2. FRONT OF MAIN PANEL OR CONSOLE MOUNTED 3. VISIBLE ON VIDEO DISPLAY 4. ACCESSIBLE TO AN OPERATOR AT DEVICE OR CONSOLE				

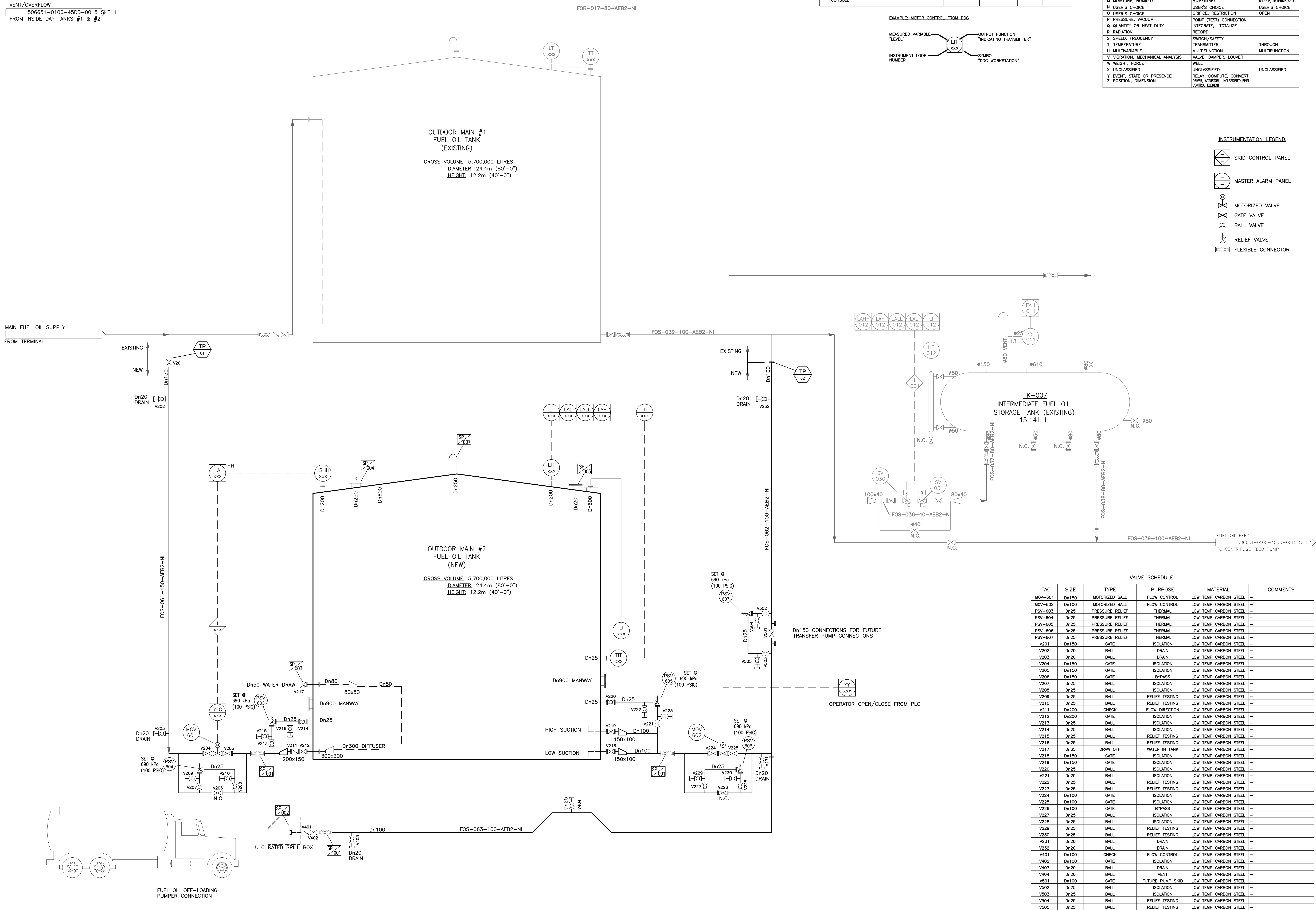
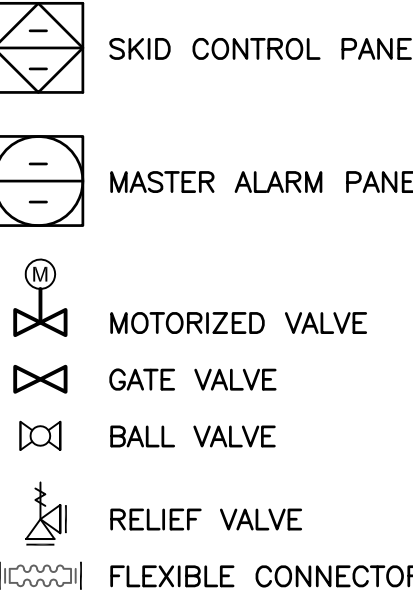
## EXAMPLE: MOTOR CONTROL FROM DDC



## INSTRUMENT IDENTIFICATION LETTERS

MEASURED VARIABLE	OUTPUT FUNCTION	MODIFIER
A ANALYSIS	ALARM	
B BURNER, FLAME, COMBUSTION	USER'S CHOICE	USER'S CHOICE
C CONDUCTIVITY - ELECTRICAL	CONTROL	CLOSED
D DENSITY, SPECIFIC GRAVITY	DIFFERENTIAL	DIVERT
E VOLTAGE	SENSOR (PRIMARY ELEMENT)	
F FLOW RATE	RATIO (FRACTION)	
G GAUGING (DIMENSIONAL)	GLASS, VIEWING DEVICE	
H HAND		
I CURRENT (ELECTRICAL)	INDICATE	HIGH
J POWER	SCAN	
K TIME, TIME SCHEDULE	CONTROL STATION	
L LEVEL	LIGHT	LOW
M MOISTURE, HUMIDITY	MOMENTARY	MIDDLE, INTERMEDIATE
N USER'S CHOICE	USER'S CHOICE	USER'S CHOICE
O USER'S CHOICE	ORIFICE, RESTRICTION	OPEN
P PRESSURE, VACUUM	POINT (TEST) CONNECTION	
Q QUANTITY OR HEAT DUTY	INTEGRATE, TOTALIZE	
R RADIATION	RECORD	
S SPEED, FREQUENCY	SWITCH/SAFETY	
T TEMPERATURE	TRANSMITTER	THROUGH
U MULTIVARIABLE	MULTIFUNCTION	MULTIFUNCTION
V VIBRATION, MECHANICAL ANALYSIS	VALVE, DAMPER, LOUVER	
W WEIGHT, FORCE	WELL	
X UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED
Y EVENT, STATE OR PRESENCE	RELAY, COMPUTE, CONVERT	
Z POSITION, DIMENSION	ORDER ACTUATOR, UNCLASSIFIED FINAL CONTROL ELEMENT	

## INSTRUMENTATION LEGEND:



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## Legend

## Notes

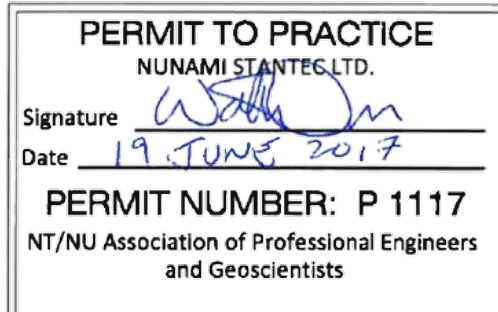
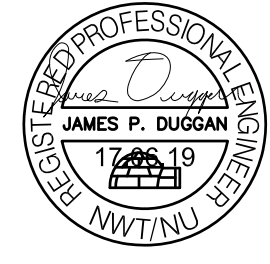
Revision	By	Appd.	YY/MM/DD

C. ISSUED FOR TENDER	B.L.	J.P.D.	17.06.19
B. ISSUED FOR PDS REVIEW	B.L.	J.P.D.	17.05.31
A. ISSUED FOR SRS REVIEW	B.L.	J.P.D.	17.04.21

Issued By Appd. YY/MM/DD

File Name: \_\_\_\_\_

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## Client/Project

Quilq Energy Corporation

Bulk Fuel Storage Farm Upgrades

Ikaluit, Nunavut

Title  
Piping and Instrumentation Diagram  
Fuel Oil System

Project No. 144902463 Scale NTS

Drawing No. Sheet Revision

M-601 of C