



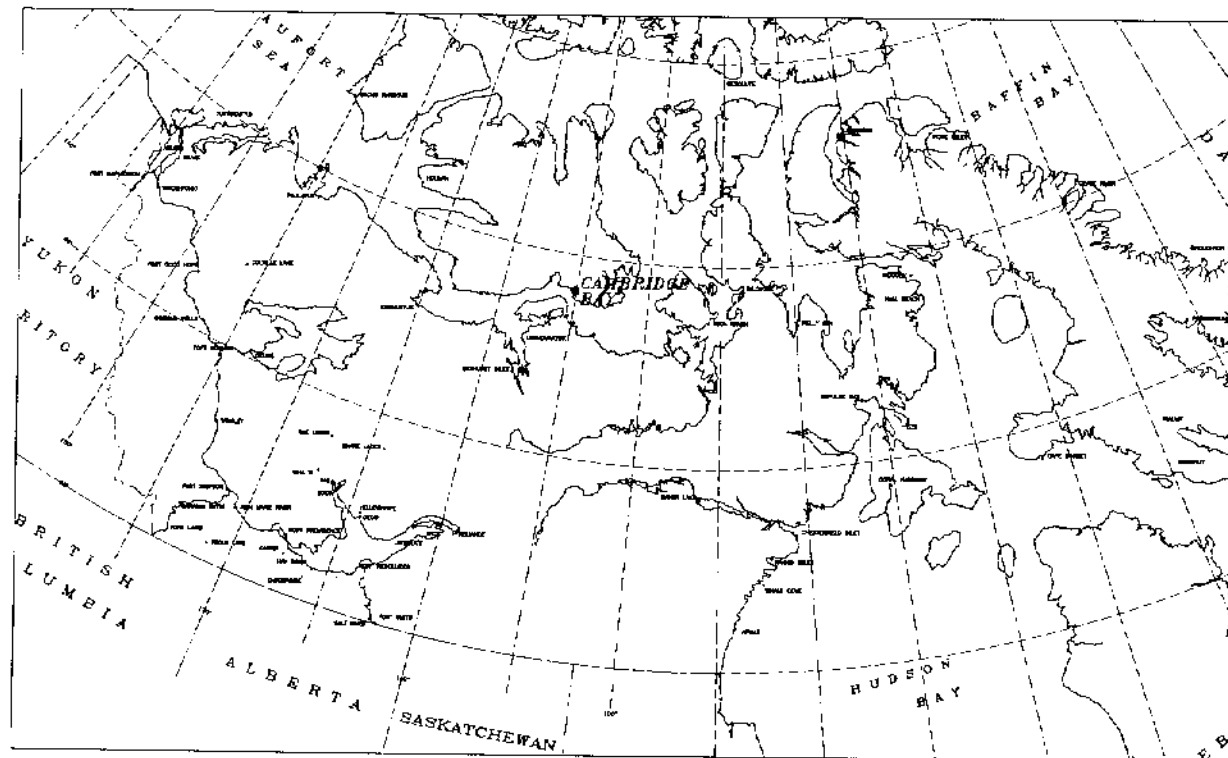
THE GOVERNMENT OF NUNAVUT COMMUNITY GOVERNMENT & TRANSPORTATION

PROJECT: WATER PIPELINE REPLACEMENT - ISSUED FOR CONSTRUCTION

LOCATION: CAMBRIDGE BAY, NUNAVUT

PROJECT NO: 02-4604

CONTRACT NO: CT03-2002



LOCATION PLAN

LIST OF DRAWINGS

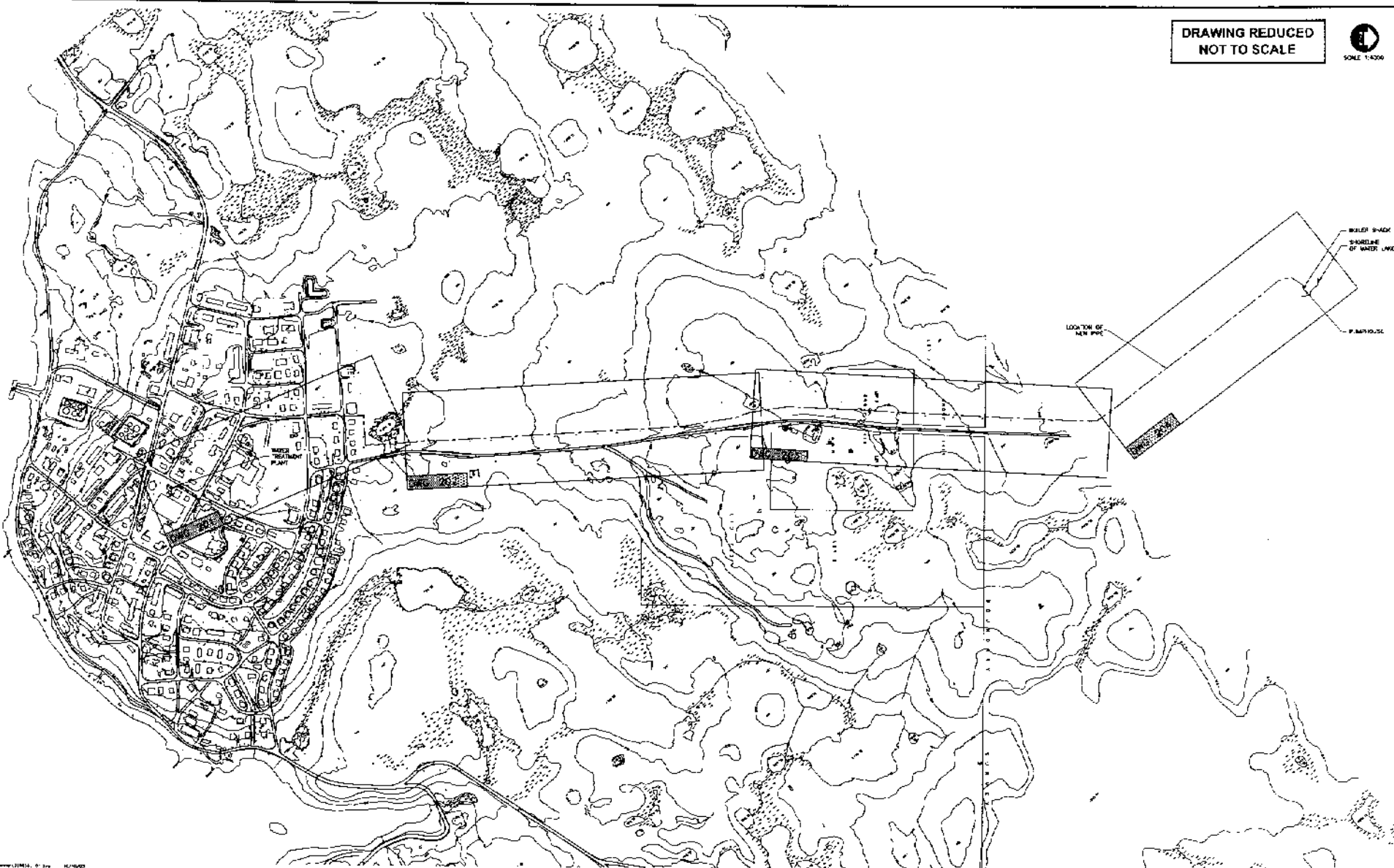
- FIGURE 100 COVER SHEET
- FIGURE 101 SITE LOCATION PLAN
- FIGURE 201 PIPELINE PLAN & PROFILE
STA 0+123.00 TO 0+600.00
- FIGURE 202 PIPELINE PLAN & PROFILE
STA 0+600.00 TO 1+350.00
- FIGURE 203 PIPELINE PLAN & PROFILE
STA 1+350.00 TO 2+100.00
- FIGURE 204 PIPELINE PLAN & PROFILE
STA 2+100.00 TO 2+627.78
- FIGURE 205 CONNECTIONS AND MISC. DETAILS
- FIGURE 206 SERVICE CONNECTIONS AND MISC. DETAILS
- FIGURE 207 TYPICAL ACCESS VAULT AND DETAILS
- FIGURE 208 VAULT CONFIGURATION DETAILS
- FIGURE 209 VAULT CONFIGURATION DETAILS
- FIGURE 301 EXISTING WATER SUPPLY SYSTEM SCHEMATIC
- FIGURE 401 BOILER SHACK LAYOUT & SCHEMATIC
- FIGURE 402 INTAKE PUMP-HOUSE DETAILS



DRAWING REDUCED
NOT TO SCALE



CAMBRIDGE BAY



11/10/2003 11:00 AM 11/10/2003 11:00 AM



- EXISTING PIPELINE ALIGNMENT
- PROPOSED PIPELINE ALIGNMENT
- ACCESS VALVE
- ▲ HIGH POINT (ON VENTS)
- LOW POINT (ON VENTS)

THE ASSOCIATION OF
PROFESSIONAL ENGINEERS
AND GEOSCIENTISTS
OF THE NORTHWEST TERRITORIES
PERMIT NUMBER
P 010
DILLON CONSULTING
LIMITED

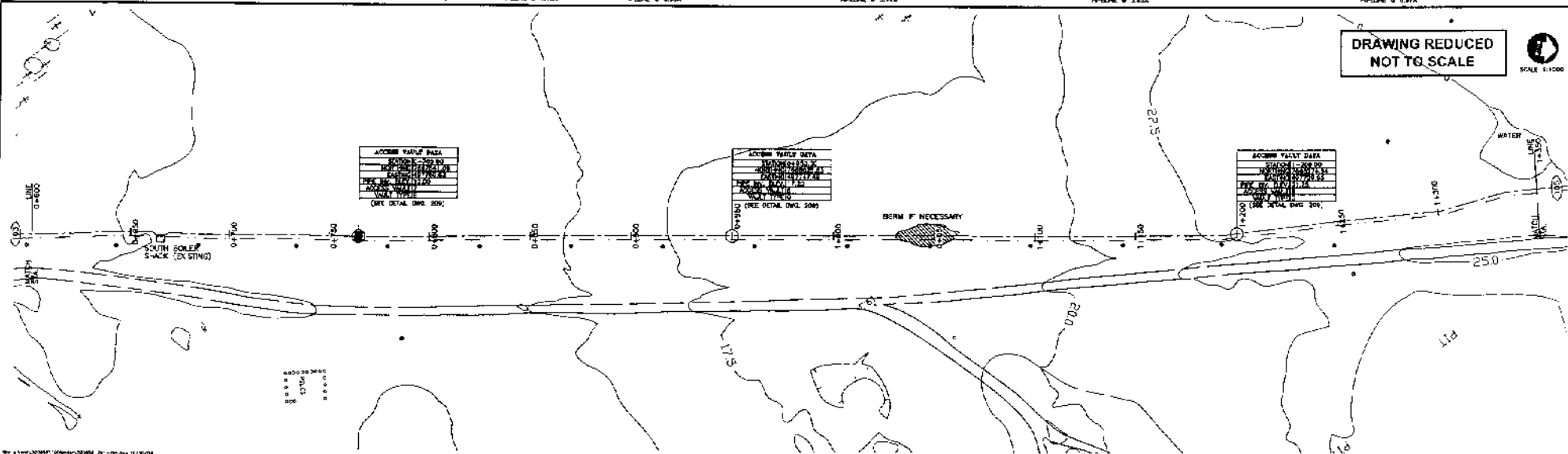
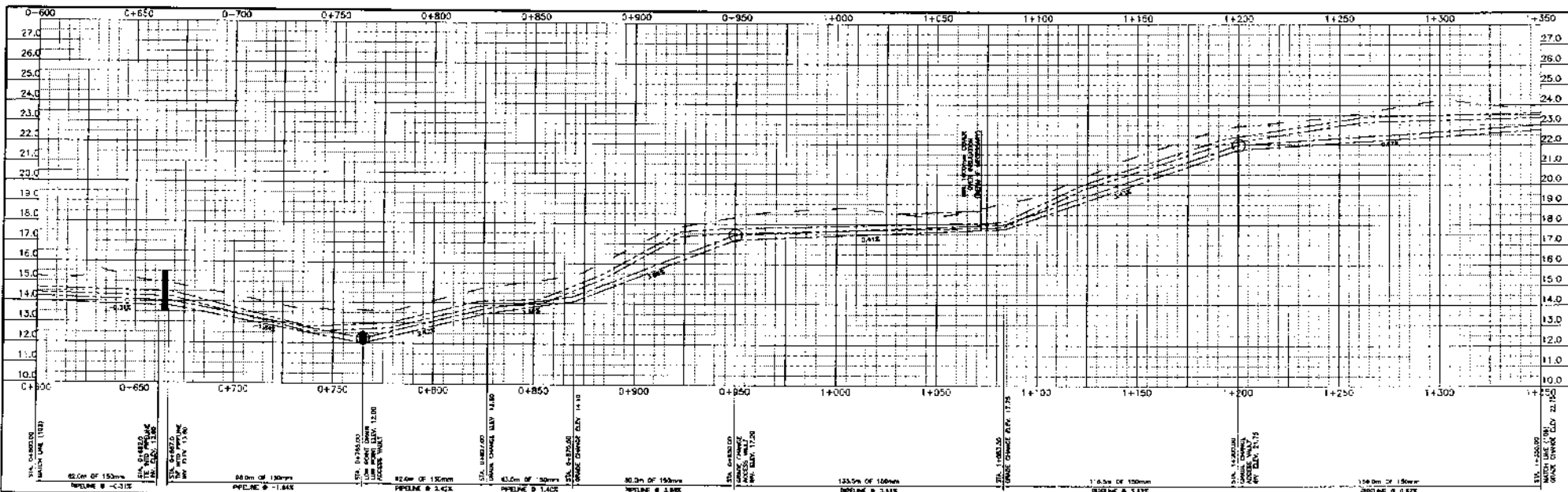


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1	10/02/20	ISSUED FOR REVIEW	JRG

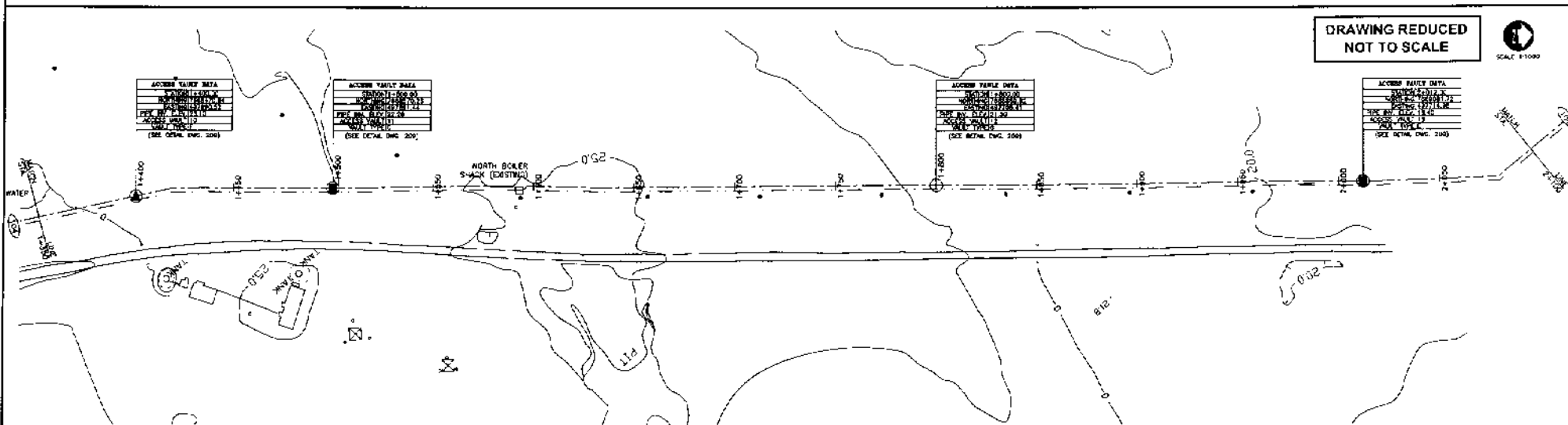
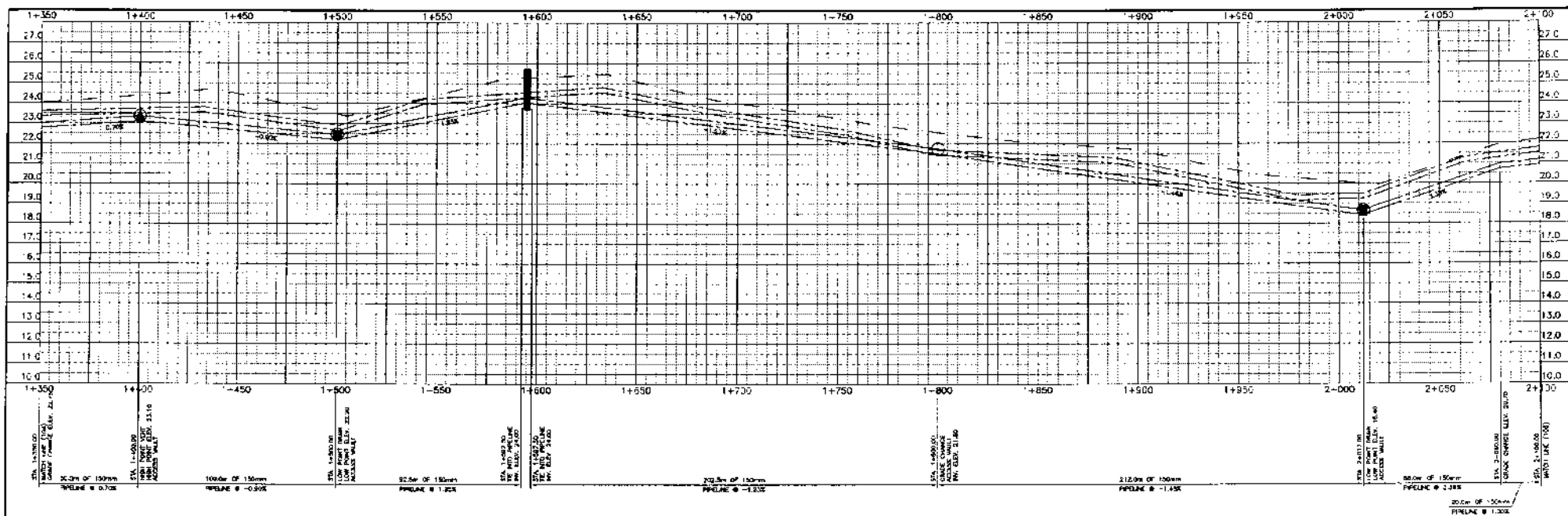
DESIGN	JRG
CHECKED	TPW
DATE	OCTOBER 2003

PROJECT	GOVERNMENT OF NUAVUT CAMBRIDGE BAY WATER PIPELINE
TITLE	SITE LOCATION PLAN

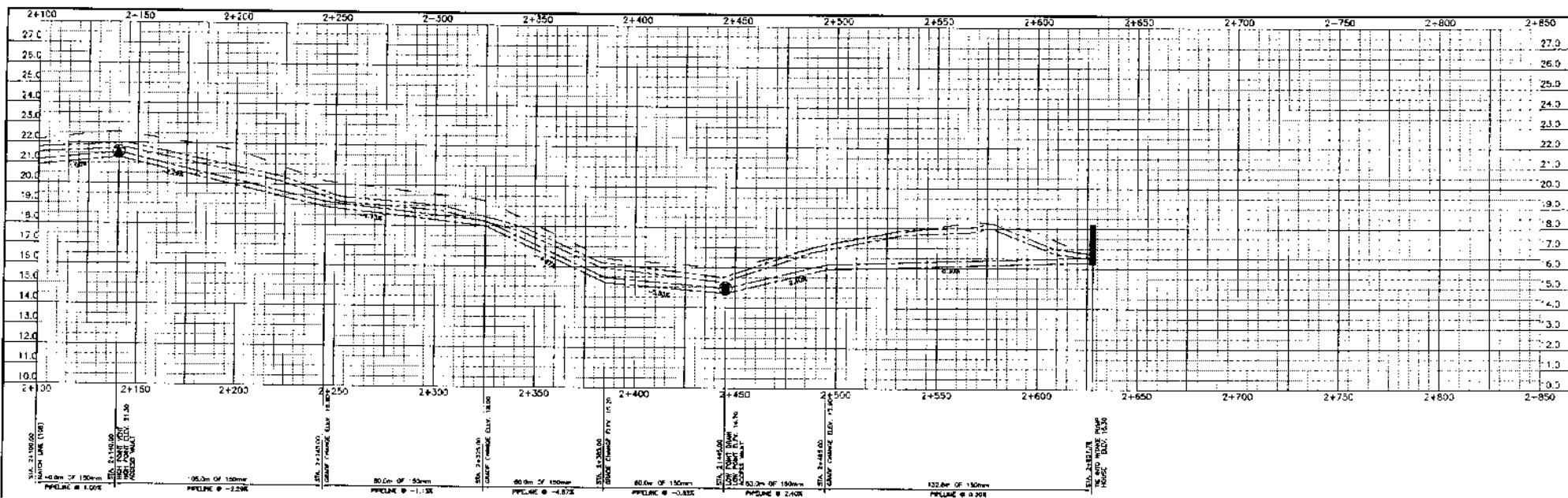
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PROJECT NUMBER	02-4604	
DRAWING NUMBER	101	



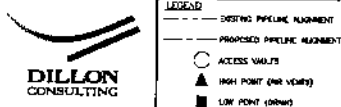
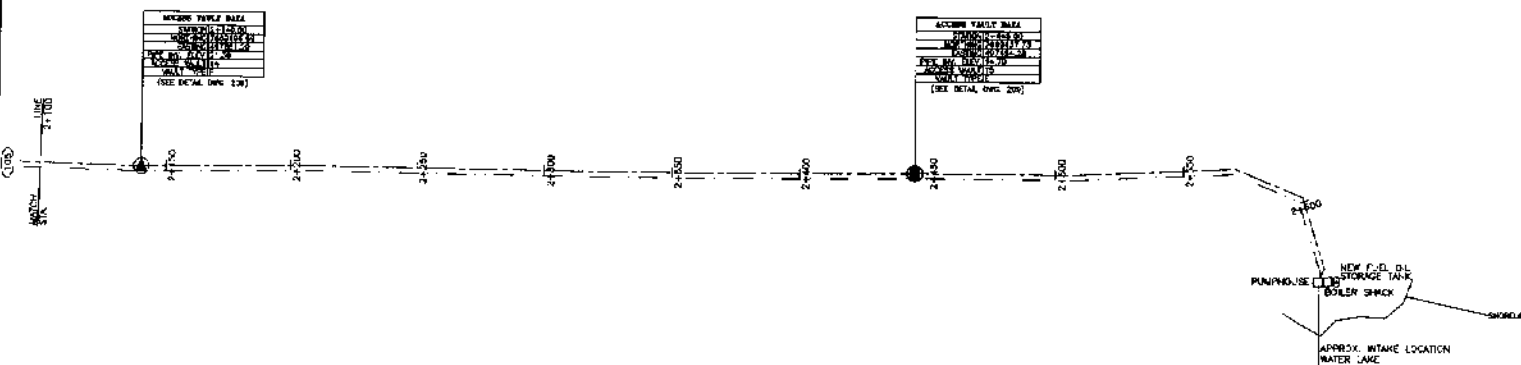
	LEGEND --- EXISTING PIPELINE ALIGNMENT --- PROPOSED PIPELINE ALIGNMENT ○ ACCESS VAULT ▲ HIGH POINT (FOR VENTS) ■ LOW POINT (DRAIN)		REVISIONS		DESIGN: JRG DRAWN: TFW CHECKED: GE DATE: OCTOBER 2003	PROJECT: GOVERNMENT OF MUNAVUT CAMBRIDGE BAY WATER PIPELINE	SCALE: HORIZONTAL: 1:1000 VERTICAL: 1:100																					
			THE ASSOCIATION OF PROFESSIONAL ENGINEERS AND GEODETISTS OF THE NORTHWEST TERRITORIES PERMIT NUMBER P080 DILLON CONSULTING LIMITED	<table border="1"> <thead> <tr> <th>CHANGE</th> <th>DATE</th> <th>DESCRIPTION</th> <th>DESIGNER</th> <th>CHECK</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>10/03/10</td> <td>ISSUED FOR CONSTRUCTION</td> <td>GS</td> <td></td> </tr> <tr> <td>2</td> <td>03/03/15</td> <td>ISSUED FOR TENDER</td> <td>JRG</td> <td></td> </tr> <tr> <td>1</td> <td>02/03/17</td> <td>SEN REVIEW</td> <td>JRG</td> <td></td> </tr> <tr> <td>0</td> <td>10/01/10</td> <td>ISSUED FOR REVIEW</td> <td>JRG</td> <td></td> </tr> </tbody> </table>	CHANGE	DATE	DESCRIPTION	DESIGNER	CHECK	1	10/03/10	ISSUED FOR CONSTRUCTION	GS		2	03/03/15	ISSUED FOR TENDER	JRG		1	02/03/17	SEN REVIEW	JRG		0	10/01/10	ISSUED FOR REVIEW	JRG
CHANGE	DATE	DESCRIPTION	DESIGNER	CHECK																								
1	10/03/10	ISSUED FOR CONSTRUCTION	GS																									
2	03/03/15	ISSUED FOR TENDER	JRG																									
1	02/03/17	SEN REVIEW	JRG																									
0	10/01/10	ISSUED FOR REVIEW	JRG																									



 DILLON CONSULTING	LEGEND --- EXISTING PIPELINE ALIGNMENT - - - PROPOSED PIPELINE ALIGNMENT ○ ACCESS VAULT ▲ HIGH POINT (AIR MONITOR) ■ LOW POINT (DRAIN)	THE ASSOCIATION OF PROFESSIONAL ENGINEERS, SURVEYORS AND GEOMATICS OF THE NORTH-WEST TERRITORIES PERMIT NUMBER P010 DILLON CONSULTING LIMITED		REVISIONS			DESIGN JRG	PROJECT GOVERNMENT OF NUHAVUT CAMBRIDGE BAY WATER PIPELINE	SCALE HORIZONTAL 1:1000	VERTICAL 1:800
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							CHECKED TPW	TITLE STATION 1+350.00 TO STATION 2+100.00	PROJECT NUMBER 02-4604	DRAWING NUMBER 203
							DATE OCTOBER 2003			



DRAWING REDUCED
NOT TO SCALE



THE ASSOCIATION OF
PROFESSIONAL ENGINEERS
AND GEODETIC SURVEYORS
OF THE NORTHWEST TERRITORIES
PERMIT NUMBER
P 010
DILLON CONSULTING
LIMITED



REVISIONS			
NO.	DATE	DESCRIPTION	CHECK
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1	03/03/17	55% REVIEW	JRG
0	10/02/20	ISSUED FOR REVIEW	JRG

DESIGN	JRG
DRAWN	TPW
CHECKED	DB
DATE	OCTOBER 2008

PROJECT
**GOVERNMENT OF NUNAVUT
CAMBRIDGE BAY WATER PIPELINE**

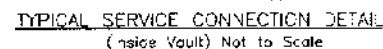
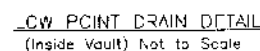
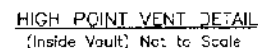
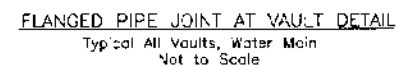
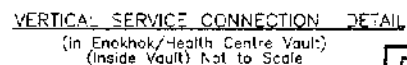
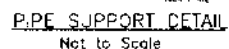
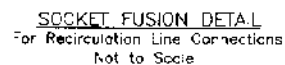
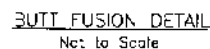
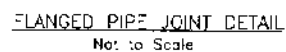
FILE
**STATION 2+100.00
TO STATION 2+627.78**

SCALE
HORIZONTAL
1:1000

VERTICAL
1:100

PROJECT NUMBER
02-4804

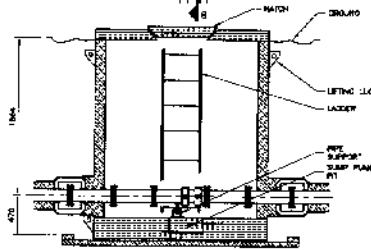
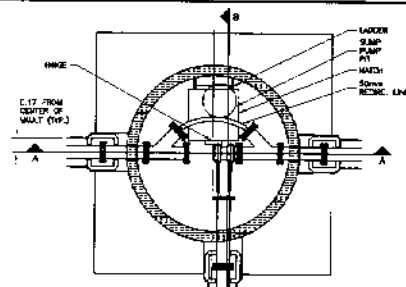
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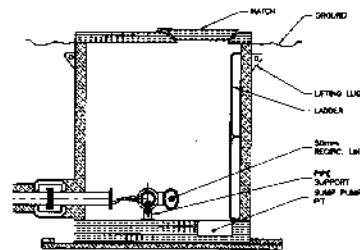
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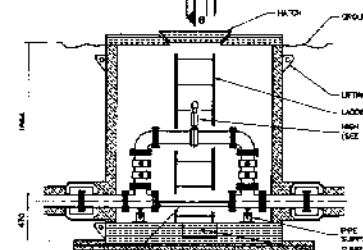
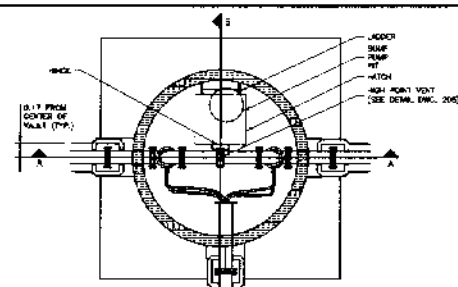


A-A

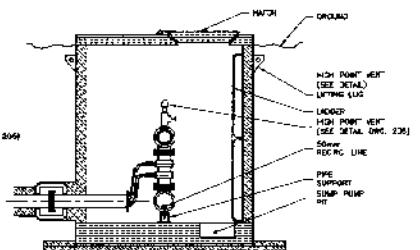


B-B

VAULT CONFIGURATION DETAIL - TYPE A SINGLE SERVICE CONNECTION
(1 REQUIRED) SCALE: 1:50

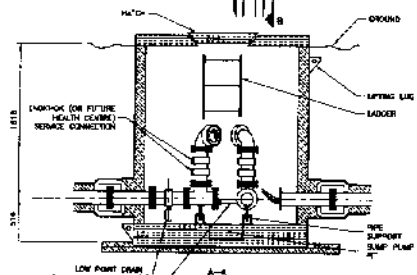
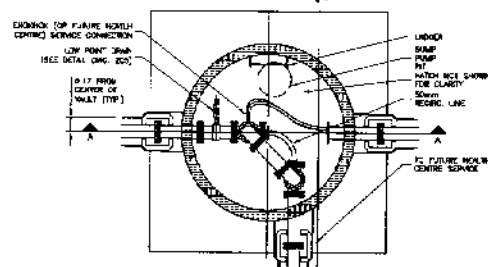


A-A

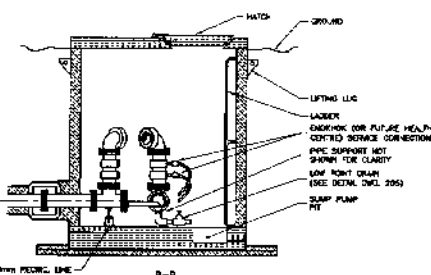


B-B

VAULT CONFIGURATION DETAIL - TYPE C SOLAR AP'S/GROUND HOME
(1 REQUIRED) SCALE: 1:50

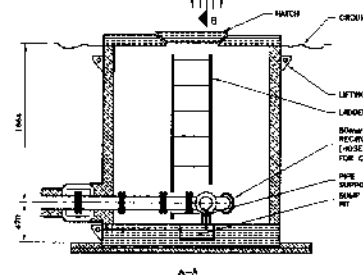
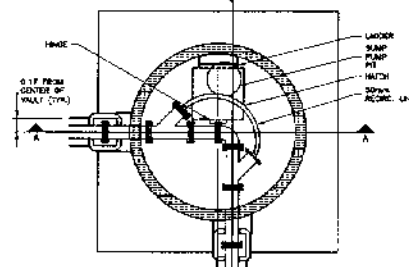


A-A

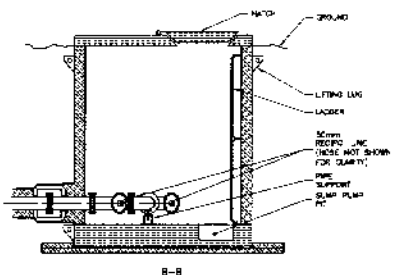


B-B

VAULT CONFIGURATION DETAIL - TYPE B END-ON/SOUTH CENTRE
(1 REQUIRED) SCALE: 1:50



A-A

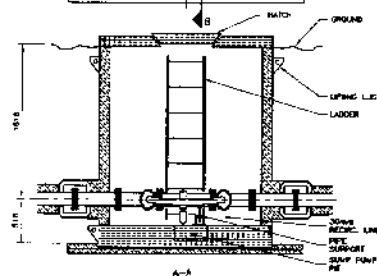
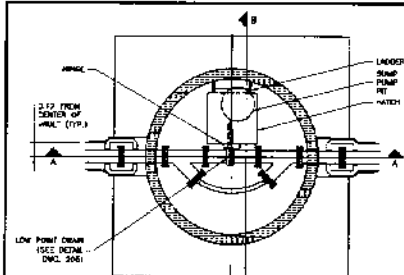


B-B

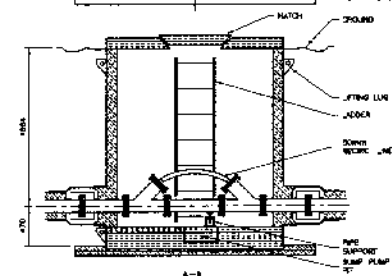
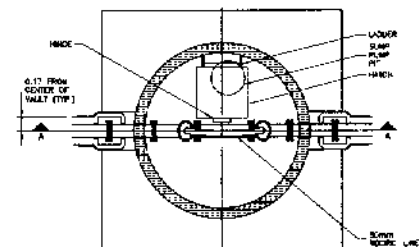
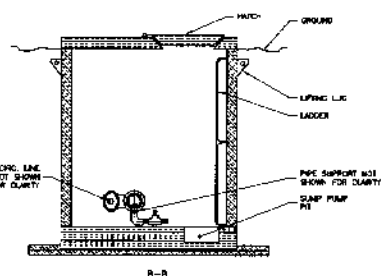
VAULT CONFIGURATION DETAIL - TYPE D 90° BEND
(1 REQUIRED) SCALE: 1:50

DRAWING REDUCED
NOT TO SCALE

 DILLON CONSULTING			THE ASSOCIATION OF PROFESSIONAL ENGINEERS, GEODETISTS AND GEOMATICS OF THE NORTHWEST TERRITORIES PERMIT NUMBER P 670 DILLON CONSULTING LIMITED		REVISIONS				DESIGN JRG	PROJECT GOVERNMENT OF NUNAVUT CAMBRIDGE BAY WATER PIPELINE	SCALE HORIZONTAL AS SHOWN									
					<table><tr><td>1</td><td>10/03/10</td><td>ISSUED FOR CONSTRUCTION</td><td>OS</td></tr><tr><td>2</td><td>03/03/15</td><td>ISSUED FOR TENDER</td><td>JRG</td></tr><tr><td>3</td><td>12/13/17</td><td>ISSUE REVIEW</td><td>JRG</td></tr><tr><td>4</td><td>10/02/20</td><td>ISSUED FOR REVIEW</td><td>JRG</td></tr></table>	1	10/03/10	ISSUED FOR CONSTRUCTION	OS		2	03/03/15	ISSUED FOR TENDER	JRG	3	12/13/17	ISSUE REVIEW	JRG	4	10/02/20
1	10/03/10	ISSUED FOR CONSTRUCTION	OS																	
2	03/03/15	ISSUED FOR TENDER	JRG																	
3	12/13/17	ISSUE REVIEW	JRG																	
4	10/02/20	ISSUED FOR REVIEW	JRG																	
					CHANGE	DATE	DESCRIPTION	CHECK	DRAWING NUMBER 208											

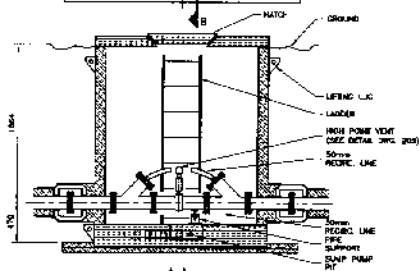
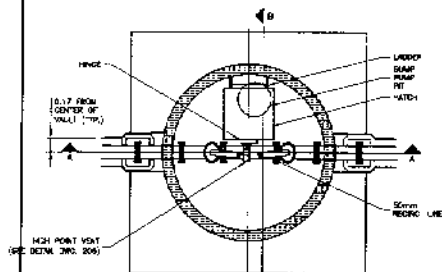


ACCESS VAULT TYPICAL DETAIL - TYPE E LOW POINT DRAIN
(4 REQUIRED) SCALE = 1:50

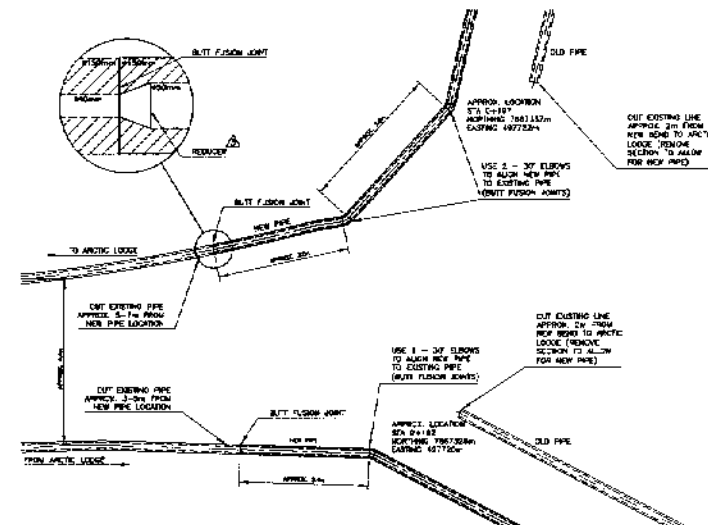
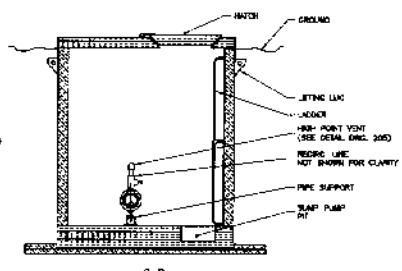


VAULT CONFIGURATION DETAIL - TYPE C THROUGH
(3 REQUIRED) SCALE = 1:50

DRAWING REDUCED
NOT TO SCALE



VAULT CONFIGURATION DETAIL - TYPE F HIGH POINT VENT
(3 REQUIRED) SCALE = 1:50



ARCTIC LOOPS LOOP DETAIL
NOT TO SCALE



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GEODETISTS AND SURVEYORS
OF THE NORTHWEST TERRITORIES
PERMIT NUMBER
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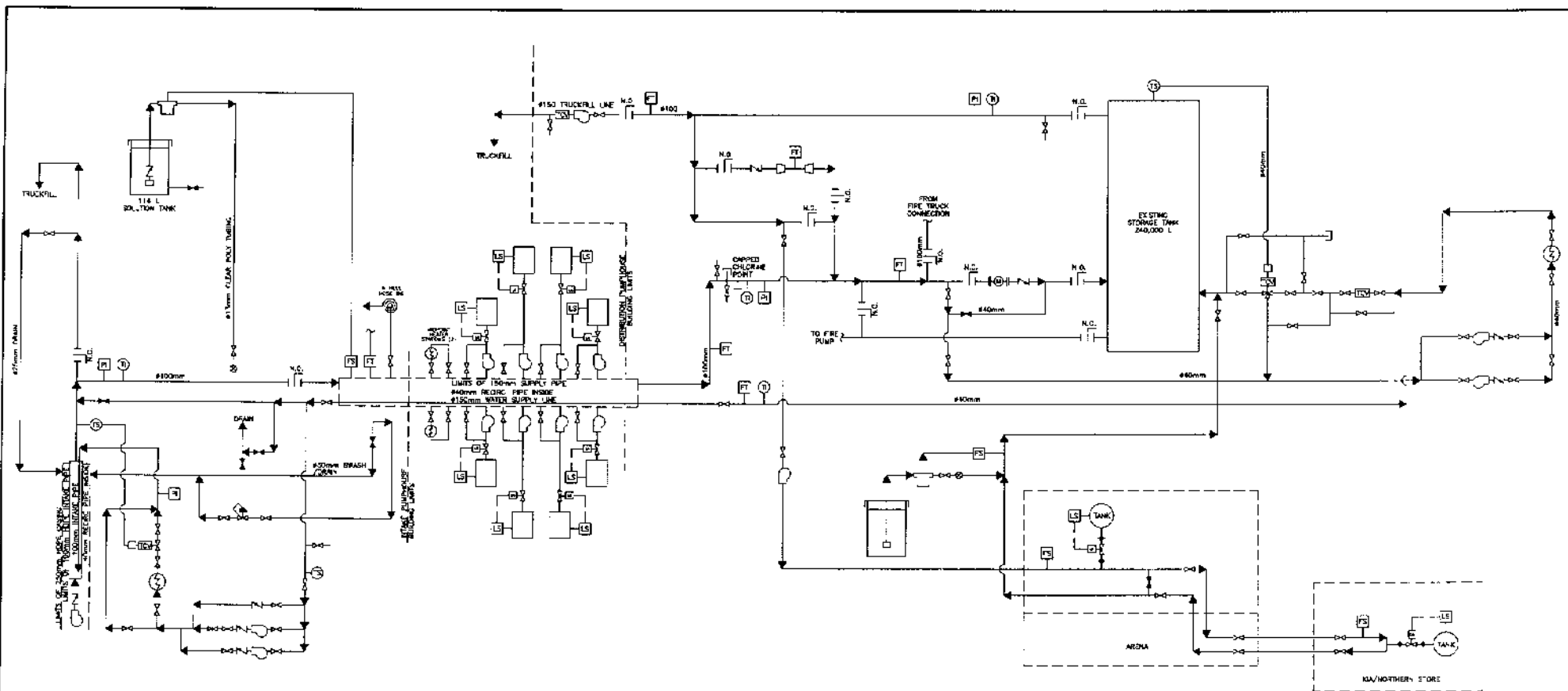


REVISIONS				
NO.	DATE	DESCRIPTION	DESIGN	CHECK
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2	03/03/15	ISSUED FOR TENDER	JRG	
1	02/03/17	55% REVIEW	JRG	
0	10/02/30	ISSUED FOR REVIEW	JRG	

DESIGN JRG
DRAWN TPW
CHECKED GS
DATE OCTOBER 2008

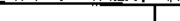
PROJECT
**GOVERNMENT OF NUNAVUT
CAMBRIDGE BAY WATER PIPELINE**
TITLE
**VAULT CONFIGURATION
DETAILS**

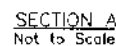
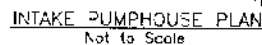
SCALE
HORIZONTAL: AS SHOWN
VERTICAL: AS SHOWN
PROJECT NUMBER
02-4604
DRAWING NUMBER
209



EXISTING WATER SUPPLY SYSTEM SCHEMATIC

- LEGEND:**
- | | |
|-------------------------------------|---------------------------|
| —○— (CLOSED) | LEVEL SWITCH |
| —○— (NORMALLY OPEN) | FLOW TRANSMITTER |
| —○— (NORMALLY CLOSED) | FLOW SWITCH |
| —○— (SOLENOID VALVE) | FLOW ACTUATOR |
| —○— (CHECK VALVE) | TEMPERATURE SENSOR |
| —○— (VALVE (BUTTERFLY)) | TEMPERATURE INDICATOR |
| —○— (MOTORISED VALVE NORMALLY OPEN) | TEMPERATURE CONTROL VALVE |
| —○— (PRESSURE RELEASE VALVE) | PRESSURE INDICATOR |
| —○— (NORMALLY OPEN) | FLOW INDICATOR |
| —○— (NORMALLY CLOSED) | WATER METER |
| —○— (4" EXCHANGE) | PUMP |
| —○— (PUMP) | CHLORINE PUMP |
| —○— (CHLORINE PUMP) | REDUCER |
| —○— (REDUCER) | |

a:\dms\project\02-4804\0201.dwg 17/10/02																																																															
 DILLON CONSULTING		THE ASSOCIATION OF PROFESSIONAL ENGINEERS, ARCHITECTS AND SURVEYORS OF THE NORTHERN TERRITORIES PERMIT NUMBER P 010 DILLON CONSULTING LIMITED		<table><thead><tr><th colspan="5">REVISIONS</th></tr><tr><th>NO.</th><th>DATE</th><th>DESCRIPTION</th><th>BY</th><th>CHECK</th></tr></thead><tbody><tr><td>1</td><td>10/03/11</td><td>ISSUED FOR CONSTRUCTION</td><td>GS</td><td></td></tr><tr><td>2</td><td>03/03/15</td><td>ISSUED FOR TENDERS</td><td>JRG</td><td></td></tr><tr><td>1</td><td>02/03/17</td><td>ISSUE REVIEW</td><td>JRG</td><td></td></tr><tr><td>0</td><td>10/02/30</td><td>ISSUED FOR REVIEW</td><td>JRG</td><td></td></tr><tr><td>CHANGE</td><td>DATE</td><td>DESCRIPTION</td><td></td><td></td></tr></tbody></table>	REVISIONS					NO.	DATE	DESCRIPTION	BY	CHECK	1	10/03/11	ISSUED FOR CONSTRUCTION	GS		2	03/03/15	ISSUED FOR TENDERS	JRG		1	02/03/17	ISSUE REVIEW	JRG		0	10/02/30	ISSUED FOR REVIEW	JRG		CHANGE	DATE	DESCRIPTION			<table><tr><td>DESIGN</td><td>JRG</td></tr><tr><td>DRAWN</td><td>TPW</td></tr><tr><td>CHECKED</td><td>GS</td></tr><tr><td>DATE</td><td>OCTOBER 2008</td></tr></table>	DESIGN	JRG	DRAWN	TPW	CHECKED	GS	DATE	OCTOBER 2008	<table><tr><td>PROJECT</td><td>CAMBRIDGE BAY WATER PIPELINE REPLACEMENT</td></tr><tr><td>TITLE</td><td>EXISTING WATER SUPPLY SYSTEM SCHEMATIC</td></tr></table>	PROJECT	CAMBRIDGE BAY WATER PIPELINE REPLACEMENT	TITLE	EXISTING WATER SUPPLY SYSTEM SCHEMATIC	<table><tr><td>SCALE</td><td>HORIZONTAL: NTS</td><td>VERTICAL: NTS</td></tr><tr><td>PROJECT NUMBER</td><td colspan="2">02-4804</td></tr><tr><td>DRAWING NUMBER</td><td colspan="2">301</td></tr></table>	SCALE	HORIZONTAL: NTS	VERTICAL: NTS	PROJECT NUMBER	02-4804		DRAWING NUMBER	301	
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PROJECT NUMBER	02-4804																																																														
DRAWING NUMBER	301																																																														



- LEGEND:**
- | | | | |
|---|------------------------------------|---|------------------------------|
|  | VALVE (CLOSE) |  | LEVEL SWITCH |
|  | NORMALLY OPEN |  | 7.2M TRANSMITTER |
|  | NORMALLY CLOSED |  | FLOW SWITCH |
|  | SOLENOID VALVE |  | FLOW INDICATOR |
|  | CHECK VALVE |  | TEMPERATURE SENSOR |
|  | VALVE INDICATOR |  | TEMPERATURE INDICATOR |
|  | MOTORIZED VALVE
NORMALLY CLOSED |  | TEMPERATURE
CONTROL VALVE |
|  | PRESSURE RELEASE
VALVE |  | PRESSURE INDICATOR |
|  | FUSIBLE LINK VALVE |  | FLOW DIRECTION |
|  | NORMALLY OPEN |  | WATER METER |
|  | NORMALLY CLOSED |  | COMBINATION STEP |
|  | HOT EXCHANGE |  | V AND BUMP FLANGE |
|  | PUMP | | |
|  | CHLORINE PUMP | | |
|  | RECEIVER | | |

GENERAL NOTES:

1. TO COMPLETE INSTALLATION IN ACCORDANCE TO NATIONAL ELECTRICAL CODE AND STANDARDS AND STANDARDS OF LOCAL AUTHORITIES.
2. SUBMIT TO ELECTRICAL INSPECTION DEPARTMENT AND CITY AUTHORITY RELEVANT NUMBER OF DRAWINGS AND SPECIFICATIONS FOR EXAMINATION AND APPROVAL PRIOR TO COMMENCEMENT OF WORK AND PAY ASSOCIATED FEES.
3. FURNISH COPIES OF ACCEPTANCE FROM ELECTRICAL INSPECTION DEPARTMENT ON COMPLETION OF WORK TO ENGINEER.
4. EQUIPMENT AND MATERIALS TO BE CSA CERTIFIED

NOTES:

- [illegible]

REVISIONS				DLS-GM	JRG
1	03/03/10	ISSUED FOR CONSTRUCTION	CS	DRAWN	TPW
2	03/03/15	ISSUED FOR TENDER	JRG	CHECKED	GS
3	03/03/17	PDS REVIEW	JRG		
4	15/02/30	ISSUED FOR REVIEW	JRG	DATE	OCTOBER 2003
CHANGE	DATE	DESCRIPTION	CHECK		

DLS GN	JRG
DRAWN	TPW
CHECKED	GS
DATE	OCTOBER 1991

PROJECT	CAMBRIDGE BAY WATER PIPELINE REPLACEMENT
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TITLE **INTAKE PUMPHOUSE
UPGRADES**

SCALE	
HORIZONTAL	VERTICAL
AS SHOWN	
PROJECT NUMBER	02-4604
DRAWING NUMBER	403