

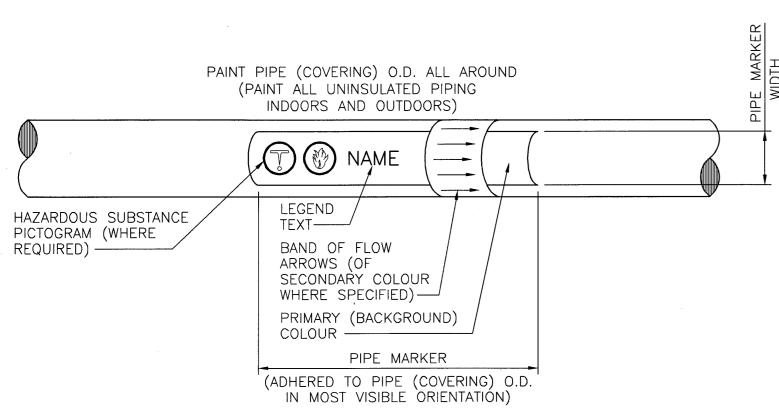
GENERAL NOTES:

- 1. PROVIDE ALL MATERIALS, LABOUR, AND ASSOCIATED SERVICES TO COMPLETE AND MAKE ALL SYSTEMS FUNCTIONAL AND OPERATIONAL AND BE COMPLIANT WITH REQUIREMENTS LISTED IN ALL CODES, REGULATIONS, INDUSTRY STANDARDS, GUIDELINES, AND GOVERNING AUTHORITIES.
- 2. ALL MATERIALS TO BE NEW AND FULLY WARRANTED FOR MINIMUM OF 1 YEAR, EXCEPT WHERE OTHER WISE NOTED.
- 3. PERFORM ALL WORK IN COORDINATION WITH ALL OTHER TRADES AND CONTRACTORS ON THE OWNERS PROPERTY. COMPLETE WORK IN A TIMELY MANNER AND COMPLIANT WITH THE PROJECT REQUIREMENTS.
- 4. USE SKILLED AND LICENSED LABOURERS AND JOURNEYMENT TO PERFORM ALL WORK.
- 5. PATCH ALL OPENINGS REMAINING AFTER EQUIPMENT, OR PIPING INSTALLATIONS. PATCHING TO ACHIEVE COLOUR MATCHED FINISH OF LIKE MATERIALS TO THE SURROUNDING SURFACE MATERIALS.
- 6. CUT ALL NEW OPENINGS REQUIRED FOR NEW INSTALLATIONS USING DUE CARE AND APPROPRIATE TOOLS AND METHODS TO MAINTAIN THE INTEGRITY OF THE STRUCTURE/ASSEMBLY IN WHICH THE OPENING IS BEING CUT.
- 7. ALL NECESSARY PERMITS SHALL BE OBTAINED AND ALL FEES SHALL BE PAID TO CARRY OUT THE SPECIFIC WORK.
- 8. DIMENSIONS SHOWN ON THE DRAWING ARE APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE TO VERIFY SYSTEM LOCATION AND DIMENSIONS ON SITE.
- 9. PROVIDE FIRE STOP SYSTEMS TO CONDUITS AND PIPING AT THEIR PENETRATIONS OF FIRE SEPARATIONS.
- 10. SEAL PIPE PENETRATIONS THROUGH WALLS.
- 11. ELECTRICALLY ISOLATE ALL DISSIMILAR METALS.
- 12. ALL SYSTEMS SHALL BE DESIGNED AND ALL MATERIALS SHALL BE SUITABLE FOR THE APPLICATIONS (SALT, SAND, AND LIQUID DE-ICER HANDING).

DESIGN CONDITIONS

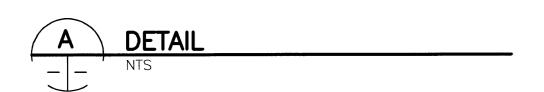
- 1. OUTDOOR AMBIENT (NBC 1995): WINTER (1%): −35°C SUMMER (2.5%): 30°C DRY BULB 23°C WET BULB
- 2. INDOOR AMBIENT:
- SAME AS OUTDOOR AMBIENT.
- VENTILATION:

BY NATURAL VENTILATION. NET OPENING AREA OF THE VENTILATION SYSTEM SHALL BE MINIMUM OF 4% OF THE NET OCCUPIABLE FLOOR AREA AS PER ASHRAE STANDARD 62. NET OCCUPIABLE AREA DOES NOT INCLUDE MATERIAL PILE UP AREAS.



HEIGHT OF LEGEND LE	ETTERS AND NUMBERS		
OUTSIDE DIAMETER OF PIPE OR COVERING	HEIGHT OF LETTERS AND NUMBERS		
mm	mm		
19 TO 32	13		
38 TO 51	19		
64 TO 150	32		
200 TO 250	64		

OVER 250

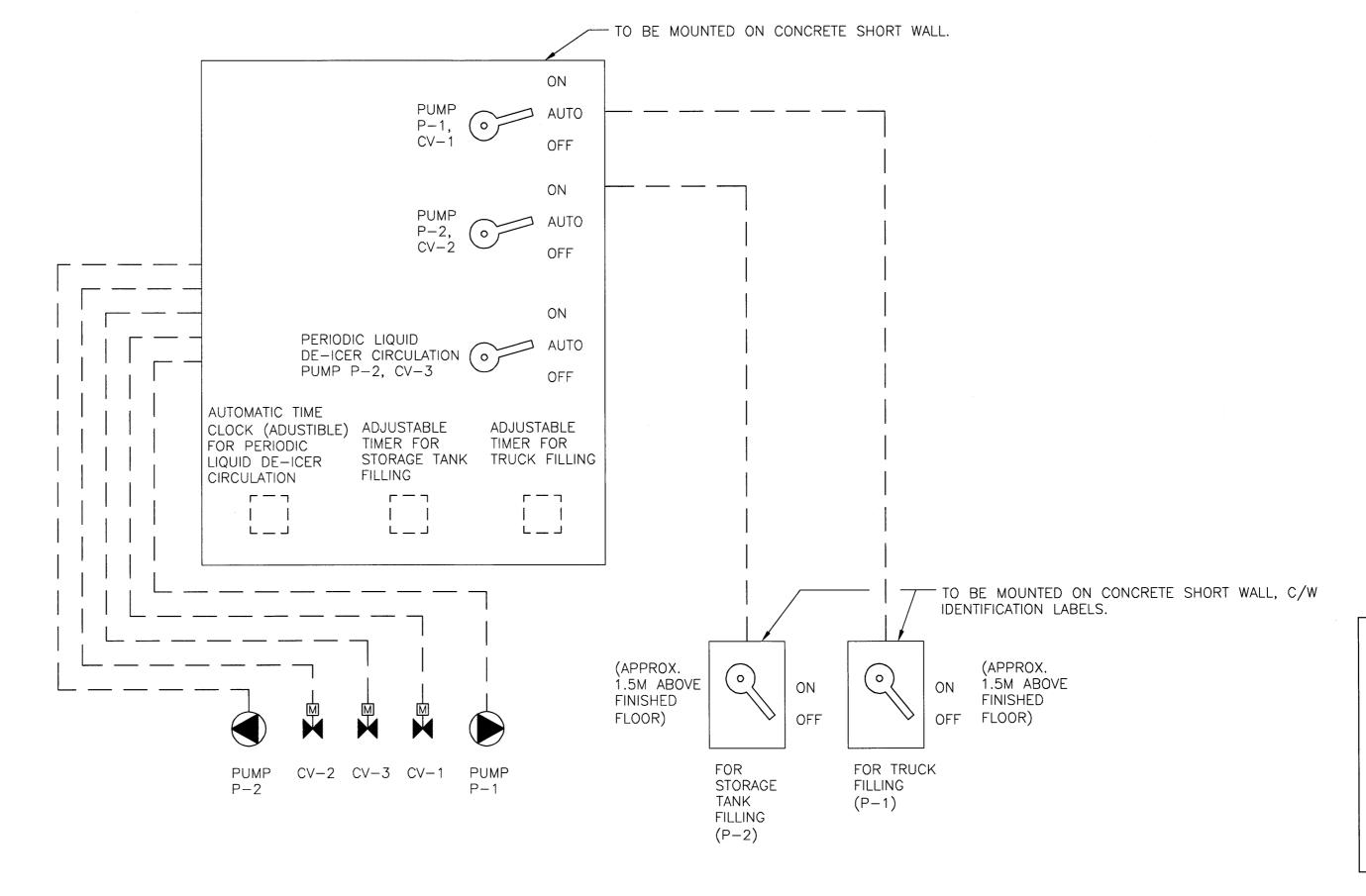


PUMP SCHEDULE									
EQUIPMENT TAG NO.	LOCATION	FLUID	TYPE	FLOW RATE (L/S)	DESIGN HEAD (M)	PUMP (RPM)	MOTOR (kw)	MANUFACTURER AND MODEL NO.	VOLTAGE
P-1, P-2	BUILDING	30% ± CALCIUM CHLORIDE	SELF PRIMING	2.3	9.1	3450	0.56	MONARCH BSEF – S75	230/1

LOUVER	LOUVER SCHEDULE - PROVIDED BY BUILDING SUPPLIER					
TYPE	MANUFACTURER MODEL/No.	DESCRIPTION				
L	PRICE AIROLITE 609B4X	STAINLESS STEEL INTAKE AIR LOUVER C/W BIRD SCREEN. AMCA CERTIFIED				

TANK SCHEDULE							
ITEM	MANUFACTURER MODEL/No.	DESCRIPTION					
T-1, T-2	POLYWEST 24600L CAPTOR TANKS	DOUBLE WALL TANKS C/W FLANGED CONNECTION FITTINGS FOR PIPING, VENTING SYSTEM, ACCESS MANWAY, CONNECTION FITTINGS SUITABLE FOR LEVEL SENSOR. LIQUID: CALCIUM CHLORIDE					

VENTILATION	ON SCHEDULE -	PROVIDED BY BUILDING SUPPLIER				
ITEM	MANUFACTURER MODEL/No.	DESCRIPTION				
V-1 VENTILATION MAXIMUM CA-2012		STATIC VENTILATOR COMPLETE WITH EPOXY COATING ON ALL SURFACES (INSIDE AND OUTSIDE). COLOUR: GREY SIZE: 300mm x 300mm; RATED FOR 197L/s EXTRACTED AIR FLOW RATE AT APPROACH WIND VELOCITY OF 6.4km/hr VENTILATOR SHALL BE BUILT IN ONE PIECE				



- SYSTEM LAYOUTS SHOWN IN THE TENDER DRAWINGS ARE FOR REFERENCE PURPOSE. THE CONTRACTOR IS RESPONSIBLE FOR DESIGN AND PROVIDE CODE COMPLIANT, FULLY FUNCTIONAL SYSTEMS TO SUIT APPLICATION. SYSTEMS SHALL MEET OR EXCEED ALL REQUIREMENTS DESCRIBED IN THE CONTRACT DOCUMENT. THE CONTRACTOR IS RESPONSIBLE FOR ALL DOCUMENT SUBMISSION TO OBTAIN APPROVAL FROM THE CITY.
- 2. ALL MATERIALS SHALL BE SUITABLE FOR SALT SAND, AND DE-ICING LIQUID HANDLING ENVIRONMENT (CORROSIVE).

CONTROLS SCHEMATIC

METRIC WHOLE NUMBERS INDICATE MILLIMETRES DECIMALIZED NUMBERS INDICATE METRES

Certificate of Authorization UMA Engineering Ltd. No. 256 Expiry: April 30, 2005

BID OPORTUNITY No. 229-2004

LOCATION APPROVED UNDERGROUND STRUCTURES	B.M. ELEV.			ENGINEER'S SEAL	PUBLIC WORKS DEPARTMENT	
SUPR. U/G STRUCTURES DATE COMMITTEE		Consulting • Engineering	Construction Management Services	ORDINGE OF MANIFORM	Winnipeg ENGINEERING DE	
NOTE: LOCATION OF UNDERGROUND STRUCTURES AS		DESIGNED WY	CHECKED	REG YUEN	SAND/SALT STORAGE FACILITY	CITY DRAWING NUMBER N/A
SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE. BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR		DRAWN ALG	APPROVED BY	PROFESSION PROFESSION	PUBLIC WORKS YARD 1539 WAVERLEY STREET	SHEET 3 OF 4
THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES	0 ISSUED FOR BID 04May25 CC 0 ISSUED FOR REVIEW 04May04 CC	— VEDTICAL NI/A	VN RELEASED FOR O CONSTRUCTION	CONSULTANT DRAWING NO.	MECHANICAL LEGEND, GENERAL NOTES, SCHEDULES	03 1
BEFORE PROCEEDING WITH CONSTRUCTION.	NO. REVISIONS DATE B	Y/M/D: 04/02/12	DATE	41-09-0265-366-00		