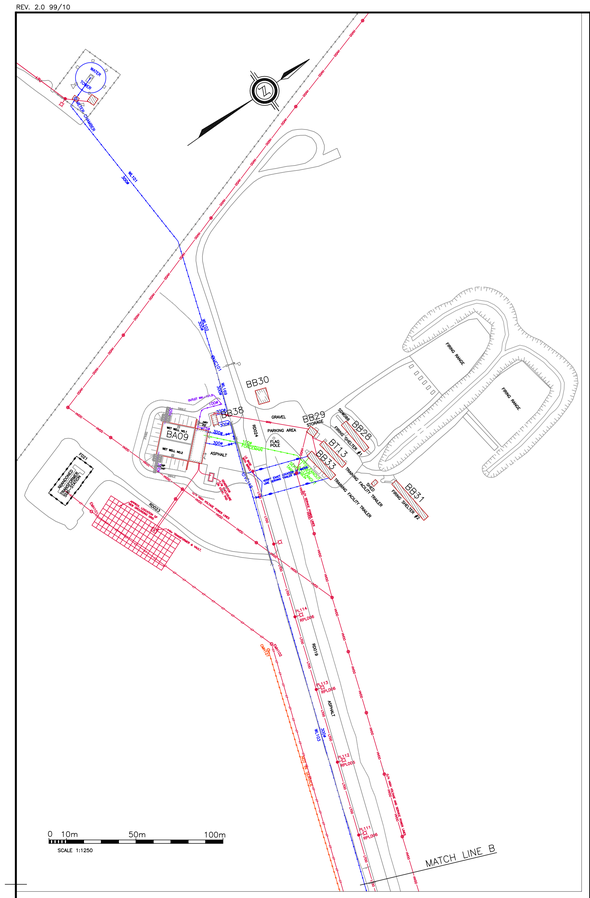
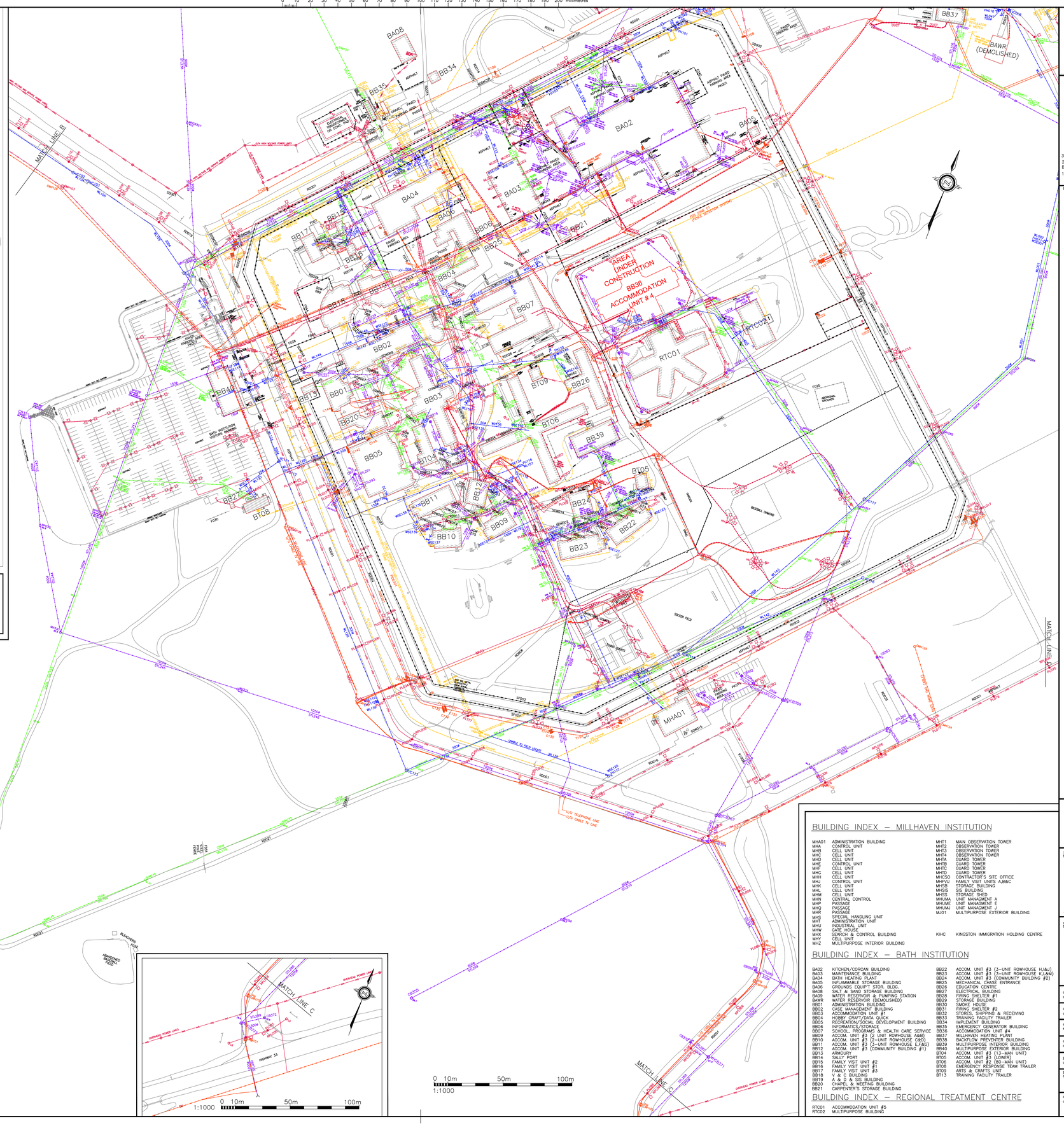
REV. 2.0 99/10

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 millimetres





NOTES:

1. ALL CO-ORDINATES FOR THIS PLAN ARE REFERENCED TO THE NAD 83 DATUM. ON SITE NAD83 CO-ORDINATES WERE ESTABLISHED USING D.G.P.S. POSITIONING. CO-ORDINATES ARE REDUCED GRID VALUES. APPLY A COMBINED SCALE FACTOR OF 0.999816 TO PLAN CO-ORDINATES TO OBTAIN GROUND DISTANCES.

2. HORIZONTAL CONTROL:
   1) BASE STATION FOR THE ABOVE WORKS WAS MONUMENT #723114 AS SUPPLIED BY GEODETIC SURVEY OF CANADA.
      UNIQUE NUMBER: 723114 NAME: AMHERST U.S.L.C.(U.S. LAKE SURVEY)
      PROVINCIAL AGENT: 001723114
      DATUM: NAD83
      LAT. 44-07-23.32540 LONG. 76-41-24.00902
      UTM ZONE 18 N= 4,886,939.077m E= 364,785.483m
      GEOID SEPARATION: -34.624m

3. VERTICAL CONTROL:
   1) ALL ELEVATIONS SHOWN ON PLAN ARE GEODETIC AND ARE REFERENCED TO BENCHMARK 671J182 – ELEVATION 76.061m. ELEVATIONS ARE BASED ON CGD28 (CANADIAN GEODETIC DATUM OF 1928).
      BENCHMARK 671J182 BE LOCATED ON A LARGE CONCRETE CULVERT UNDER HWY #33, 1.4 Km EAST OF JUNCTION WITH HWY #133, 0.5Km WEST OF THE ENTRANCE TO C.I.L. MILLHAVEN FIBRES LTD. PLANT, TABLET IN TOP OF CULVERT, 30cm FROM SOUTH END, 30cm FROM EAST EDGE, 1m BELOW ROAD LEVEL.

4. ORIGINAL FIELD SURVEY TO COMPLETE CONDITION SURVEY SITE PLAN WAS CONDUCTED FROM NOVEMBER 1994 TO MARCH 31, 1995. ADDITIONAL SURVEY TO UPDATE SITE PLAN FOR "BATH INSTITUTION" ONLY WAS CONDUCTED FROM NOVEMBER 1996 AND MAY, JUNE AND SEPTEMBER 1997.

5. MONUMENTATION:
   ADDITIONAL BRASS MONUMENTS LABELLED PUBLIC WORKS CANADA, SURVEY MARKER WERE SET ON SITE. MONUMENTS #9 AND #10 ARE PERMANENTLY SET BOLTS WITH NO LABEL. MONUMENT AT BUILDING A-3 HAS NO LABEL.
   NEW MONUMENTS ARE AS FOLLOWS:

LABEL	NORTHING	EASTING	ELEVATION
1	N= 4,894,478.534	E= 360,159.060	ELEV.= 91.041
2	N= 4,894,386.849	E= 359,869.026	ELEV.= 91.182
4	N= 4,894,618.686	E= 359,666.093	ELEV.= 96.075
5	N= 4,894,680.874	E= 359,593.008	ELEV.= 95.884
7	N= 4,895,246.307	E= 360,161.974	ELEV.= 95.158 DESTROYED
SMO08	N= 4,895,381.460	E= 359,866.755	ELEV.=
9	N= 4,895,101.828	E= 359,844.821	ELEV.= 95.835
10	N= 4,895,159.266	E= 359,844.801	ELEV.= 96.189
SMO11	N= 4,895,404.450	E= 359,834.173	ELEV.= 98.923
A-3	N= 4,894,812.764	E= 359,817.025	ELEV.= 97.005

6. ADDITIONAL TOPOGRAPHIC AND SITE SERVICES INFORMATION WAS OBTAINED FROM:
   1) PWGSC CONTRACT DRAWINGS – "PERIMETER SECURITY FENCE" PROJ. No. 698469, DATED 94-12-02
   2) PWGSC CONTRACT DRAWINGS – "INMATE HOUSING" PROJ. No. 670568, DATED 94-05-16
   3) VARIOUS "AS-BUILT" DRAWINGS OF SITE SERVICES WORKS AND "1985 PHYSICAL PLAN SURVEY" DRAWINGS PROJ. No. 620651, DATED FEB, 1985.

7. LOCATION RECORDS OF BURIED GAS MAIN AND SERVICES WAS SUPPLIED BY CENTRA GAS ONTARIO INC. WITH SOME LINE LOCATES DONE BY PWGSC IN 96/97 SURVEYS.

8. LOCATION RECORDS OF BURIED MAIN TELEPHONE SERVICE WAS SUPLIED BY BELL CANADA. WITH SOME LINE LOCATES DONE BY PWGSC IN 96/97 SURVEYS.

9. ALL PIPE DIAMETERS ARE IN MILLIMETRES.

CAUTION

1. SOME BURIED ELECTRICAL, TELEPHONE, WATER AND GAS LINES ARE SHOWN IN APPROXIMATE LOCATIONS

2. EXACT LOCATION OF ALL BURIED SERVICES TO BE CONFIRMED ON SITE PRIOR TO ANY CONSTRUCTION WORKS.

NB

10. BETWEEN MARCH 31, 1995 AND MARCH 31, 2008 SEVERAL PLANIMETRIC MAPPING AND UTILITY DATA VALIDIFICATION SURVEYS HAVE BEEN CARRIED OUT AT BOTH THE MILLHAVEN AND BATH INSTITUTIONS, TO REFLECT THE PHYSICAL CHANGES TO THESE SITES AND TO VERIFY THE LOCATION OF THE UNDERGROUND SERVICES.

    CAUTION: THESE UPDATES DO NOT CAPTURE SITE CONSTRUCTION THAT WAS INCOMPLETE AT DECEMBER 31, 20007.

THE FOLLOWING HEATING MANHOLES CONTAIN VALVES:

HMH101
HMH102
HMH103
HMH104
HMH105
HMH107
HMH109

Public Works and Government Services Canada
Architectural and Engineering Services
Ontario Region

Travaux publics et Services gouvernementaux Canada
Services d'architecture et de genie
Region de l'Ontario

Revisions	Date
3 EXPAND PARKING LOT AT BATH INSTITUTION.	03/2015
2 UPDATE SITE SERVICES WITH NEW WATER RESERVOIR AT BATH & FIRE ROUTE AT MILLHAVEN	01/2014
1 UPDATE SITE SERVICES WITH AS BUILT INFORMATION FOR G/GO BUILDINGS AT BATH, RTC & MH	02/2014

LEGEND

- 27.89 MAIN FLOOR ELEVATION
- HORIZONTAL CTRL MONUMENT
- VERTICAL BENCH MARK
- SURVEY IRON BAR
- SURVEY & PERIMETER BOUNDARIES
- BUILDING
- BURIED STRUCTURE
- DITCH
- CULVERT
- ANTENNA
- GUARDRAIL
- SIGN (SINGLE/DOUBLE POST)
- REGULAR FENCE
- SECURITY FENCE
- GATE
- POST
- BOLLARD
- FLAG POST
- LIGHT SUPPORT
- TREE
- MARSH
- CCTV CAMERA
- MOTION SENSOR
- TM TRANSCEIVER MODULE
- FENCE DETECTOR
- FA-SEC FIRE ALARM & SECURITY U/G
- APED BELL PEDESTAL
- BMH BELL MANHOLE
- B BELL O/H CABLE
- B BELL U/G CABLE
- PA PUBLIC ADDRESS SPEAKER
- INTERCOM
- SD SATELLITE DISH
- CMO COMMUNICATION O/H VOICE/DATA CABLE
- CMU COMMUNICATION U/G VOICE/DATA CABLE
- FA FIRE ALARM
- FOU FIBRE OPTICS U/G (MULTI C/W CABLE)
- VID VIDEO SIGNAL U/G (CABLE)
- TRANSF. ON CONCRETE PAD
- PULL PIT
- JUNCTION BOX/HANDHOLE
- GROUND INSPECTION BOX
- LS LIGHT STANDARD
- HP HYDRO POLE
- POLE MT'D TRANSFORMER
- EMH ELECTRICAL MANHOLE
- FIBRE OPTICS MANHOLE
- STREET LIGHT SINGLE/DOUBLE
- SUSPENDED LUMINAIRE
- POLE ANCHOR
- FLOOD LIGHT
- WALL MOUNTED LIGHT
- ELECT. RECEPTACLE
- HVDO 44.0kV O/H LINE
- HVO 12.5/7.2kV O/H LINE
- HVU 12.5/7.2kV U/G LINE
- MVO 600V 3Ø 3W O/H LINE
- MVU 600V 3Ø 3W U/G LINE
- NVO 120/240V 1Ø 3W O/H PGB/PI SERVICE
- NVU 120/240V 1Ø 3W U/G POWER SERVICE
- LTO 120/240V 1Ø 3W STREET LIGHTING
- LTOO 120-1Ø 2W STREET LIGHTING AND POWER SERVICE U/G LINE
- WATER WELL
- SIAMESE CONNECTION
- WATER METER
- PIPE CAP
- FH FIRE HYDRANT
- WATER VALVE
- VPC VALVE PUMP CHAMBER
- PIV POST INDICATOR VALVE
- HOSE CONNECTION
- VENT
- THRUST BLOCK
- FM FIRE MAIN
- WATER LINE/WELL SUPPLY LINE
- WATER IRRIGATION LINE
- STEAM LINE (SUPPLY & RETURN)
- PROPANE LINE
- GAS LINE
- GAS VALVE
- GAS METER
- GAS LINE MARKER
- FUEL PUMP
- MH STEAM MANHOLE
- STORM SEWER
- SUBDRAIN
- MHCB MANHOLE CATCHBASIN
- STORM MANHOLE
- CB CATCH BASIN
- SUMP PUMP
- SANITARY SEWER
- SAM SANITARY MANHOLE
- G.I.H.T'S GREASE INTERCEPTOR
- HOLDING TANK
- CLEANOUT
- SEPTIC BED
- (TBV) TO BE VERIFIED
- ABANDONED SERVICES
- HAZARDOUS MATERIAL

BUILDING INDEX – MILLHAVEN INSTITUTION

MHA01	ADMINISTRATION BUILDING	MHT1	MAIN OBSERVATION TOWER
MHA	CONTROL UNIT	MHT2	OBSERVATION TOWER
MHB	CELL UNIT	MHT3	OBSERVATION TOWER
MHC	CELL UNIT	MHT4	OBSERVATION TOWER
MHD	CELL UNIT	MHTA	GUARD TOWER
MHE	CONTROL UNIT	MHTB	GUARD TOWER
MHF	CELL UNIT	MHTC	GUARD TOWER
MHG	CELL UNIT	MHTD	GUARD TOWER
MHH	CELL UNIT	MHCSO	CONTRACTOR'S SITE OFFICE
MHJ	CONTROL UNIT	MHFVU	FAMILY VISIT UNITS A,B&C
MHK	CELL UNIT	MHSB	STORAGE BUILDING
MHL	CELL UNIT	MHSIS	SIS BUILDING
MHM	CELL UNIT	MHSS	STORAGE SHED
MHN	CENTRAL CONTROL	MHUMA	UNIT MANAGMENT A
MHP	PASSAGE	MHUME	UNIT MANAGMENT E
MHQ	PASSAGE	MHUMJ	UNIT MANAGMENT J
MHR	PASSAGE	MJO1	MULTIPURPOSE EXTERIOR BUILDING
MHS	SPECIAL HANDLING UNIT		
MHT	ADMINISTRATION UNIT		
MHU	INDUSTRIAL UNIT		
MHW	GATE HOUSE		
MHX	SEARCH & CONTROL BUILDING	KIHC	KINGSTON IMMIGRATION HOLDING CENTRE
MHY	CELL UNIT		
MHZ	MULTIPURPOSE INTERIOR BUILDING		

BUILDING INDEX – BATH INSTITUTION

BA02	KITCHEN/CORCAN BUILDING	BB22	ACCOM. UNIT #3 (3-UNIT ROWHOUSE HJ&J)
BA03	MAINTENANCE BUILDING	BB23	ACCOM. UNIT #3 (3-UNIT ROWHOUSE K,L&M)
BA04	BATH HEATING PLANT	BB24	ACCOM. UNIT #3 (COMMUNITY BUILDING #2)
BA05	INFLATABLE STORAGE BUILDING	BB25	MECHANICAL CHASE ENTRANCE
BA06	GROUNDS EQUIPT STOR. BLDG.	BB26	EDUCATION CENTRE
BA08	SALT & SAND STORAGE BUILDING	BB27	ELECTRICAL BUILDING
BA09	WATER RESERVOIR & PUMPING STATION	BB28	FIRING SHELTER #1
BAWR	WATER RESERVOIR (DEMOLISHED)	BB29	STORAGE BUILDING
BB01	ADMINISTRATION BUILDING	BB30	SMOKE HOUSE
BB02	CASE MANAGEMENT BUILDING	BB31	FIRING SHELTER #2
BB03	ACCOMMODATION UNIT #1	BB32	STORES, SHIPPING & RECEIVING
BB04	HOBBY CRAFT/DATA QUICK	BB33	TRAINING FACILITY TRAILER
BB05	RECREATION/SOCIAL DEVELOPMENT BUILDING	BB34	IMPLEMENT BUILDING
BB06	INFORMATICS/STORAGE	BB35	EMERGENCY GENERATOR BUILDING
BB07	SCHOOL, PROGRAMS & HEALTH CARE SERVICE	BB36	ACCOMMODATION UNIT #4
BB09	ACCOM. UNIT #3 (2 UNIT ROWHOUSE A&B)	BB37	MILLHAVEN HEATING PLANT
BB10	ACCOM. UNIT #3 (2-UNIT ROWHOUSE C&D)	BB38	BACKFLOW PREVENTER BUILDING
BB11	ACCOM. UNIT #3 (3-UNIT ROWHOUSE E,F&G)	BB39	MULTIPURPOSE INTERIOR BUILDING
BB12	ACCOM. UNIT #3 (COMMUNITY BUILDING #1)	BB40	MULTIPURPOSE EXTERIOR BUILDING
BB13	ARMOURY	BT04	ACCOM. UNIT #3 (13-MAN UNIT)
BB14	SALLY PORT	BT05	ACCOM. UNIT #3 (LOWER)
BB15	FAMILY VISIT UNIT #2	BT06	ACCOM. UNIT #2 (80-MAN UNIT)
BB16	FAMILY VISIT UNIT #1	BT08	EMERGENCY RESPONSE TEAM TRAILER
BB17	FAMILY VISIT UNIT #3	BT09	ARTS & CRAFTS UNIT
BB18	V & C BUILDING	BT13	TRAINING FACILITY TRAILER
BB19	A & D & SIS BUILDING		
BB20	CHAPEL & MEETING BUILDING		
BB21	CARPENTER'S STORAGE BUILDING		

BUILDING INDEX – REGIONAL TREATMENT CENTRE

RTC01	ACCOMMODATION UNIT #5
RTC02	MULTIPURPOSE BUILDING

A Detail No, No. du detail
B drawing no. – where detail required dessin no. – ou detail exige
C drawing no. – where detailed dessin no. – ou detaille

project title
titre du projet
MILLHAVEN ONTARIO
CORRECTIONAL SERVICE CANADA
BATH INSTITUTION

AERP–CONDITION SURVEY 2007

drawing title
titre du dessin
SITE SERVICES MASTER PLAN

designed by
conc par

drawn by
dessine par J.Sormilic

reviewed by
examine par R. Pitton

approved by
approuve par

project date
date du projet 2007-12-31

project no.
no. du projet 310304

drawing no.
dessine no. 423-01/1

version no. 3

GSC-A0 PLOT SCALE: 1:100 CAD FILE: EDRM DOC # 74473