



Department of Community and Government Services
Ministère des services communautaires

April 5, 2004

Nunavut Water Board
P.O. Box 119
Gjoa Haven, NU
X0B 1J0

Attention : Jim Wall, Technical Advisor

Re : Utilidor Replacement, Area 1, Rankin Inlet, NU

Dear Sir;

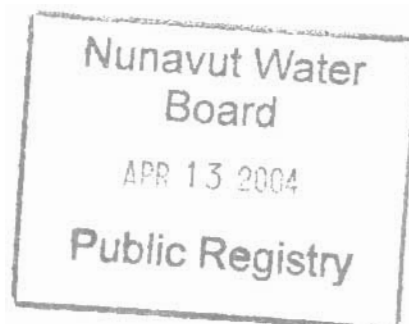
Please find enclosed for your files revised and updated drawings for the above mention project.

I understand this project had been previously reviewed and accepted by your division.

If you have any questions, please call me at the telephone number below.

Regards,

Wayne Thistle, CET
Project Officer



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Utilidor Replacement, Area 1

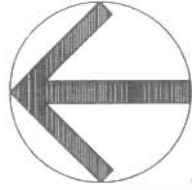
Rankin Inlet, NU

Tender Drawings

Project No. 00-3049
April 2004

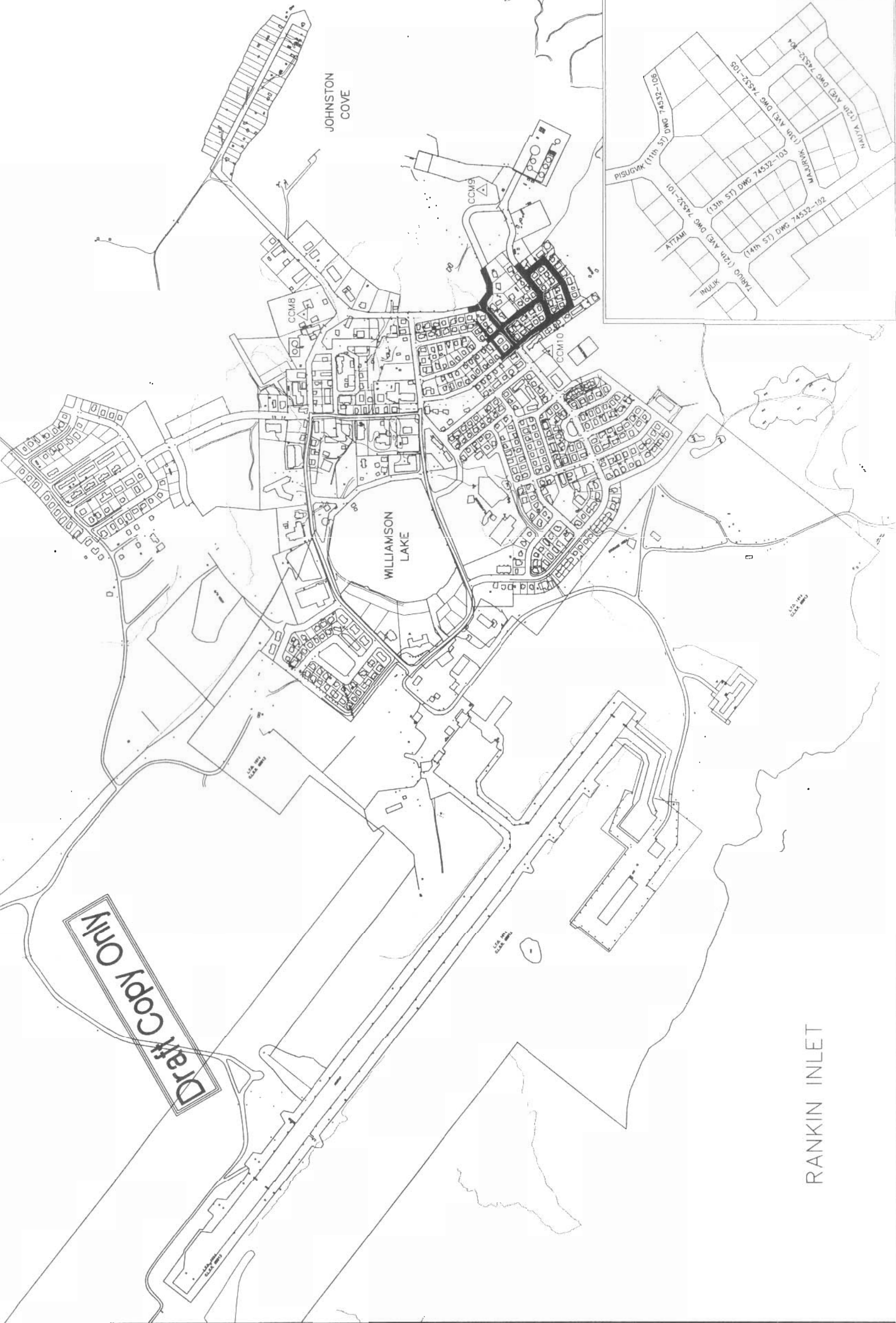
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DRAWING NO.	LIST OF DRAWINGS		REV.	DRAWING NO.	LIST OF DRAWINGS		REV.
	DRAWING TITLE	DRAWING TITLE			DRAWING TITLE	DRAWING TITLE	
	COVER SHEET			74532 – 201	ACCESS VAULTS, STANDARD DETAILS		0
				74532 – 202	ACCESS VAULTS, MISC. DETAILS		0
74532 – 001	SITE PLAN		0	74532 – 203	ACCESS VAULTS, STANDARD DETAILS		0
74532 – 002	SYSTEM SCHEMATIC		0	74532 – 204	TYPICAL WATER SERVICE DETAILS		0
				74532 – 205	TYPICAL SEWER SERVICE DETAILS		0
74532 – 101	PLAN PROFILE, REAR LOT LINE, STA 0–004 TO 0+114		0	74532 – 206	MISCELLANEOUS SERVICE DETAILS		0
74532 – 102	PLAN PROFILE, INULIK (14th ST.), STA 0+000 TO 0+227		0	74532 – 207	TRENCH DETAILS		0
74532 – 103	PLAN PROFILE, ATTAMI (13th ST.), STA 0–013 TO 0+181		0				
74532 – 104	PLAN PROFILE, NAUYA (14th AVE.), STA 0+010 TO 0+141		0	74532 – 230	ACCESS VAULT SCHEMATICS AV B–17, AV B–18		0
74532 – 105	PLAN PROFILE, NAUYA (14th AVE.), STA 0+010 TO 0+074		0	74532 – 231	ACCESS VAULT SCHEMATICS AV B–19, AV 01–1		0
	MAJURVIK (13th AVE.), STA 0+010 TO 0+106		0	74532 – 232	ACCESS VAULT SCHEMATICS AV 01–2, AV 01–3		0
74532 – 106	PLAN PROFILE, PISUGVUK(11th ST.), STA 0+000 TO 0+115		0	74532 – 233	ACCESS VAULT SCHEMATICS AV 01–4, AV 01–5		0
				74532 – 234	ACCESS VAULT SCHEMATICS AV 01–6, AV 01–7		0



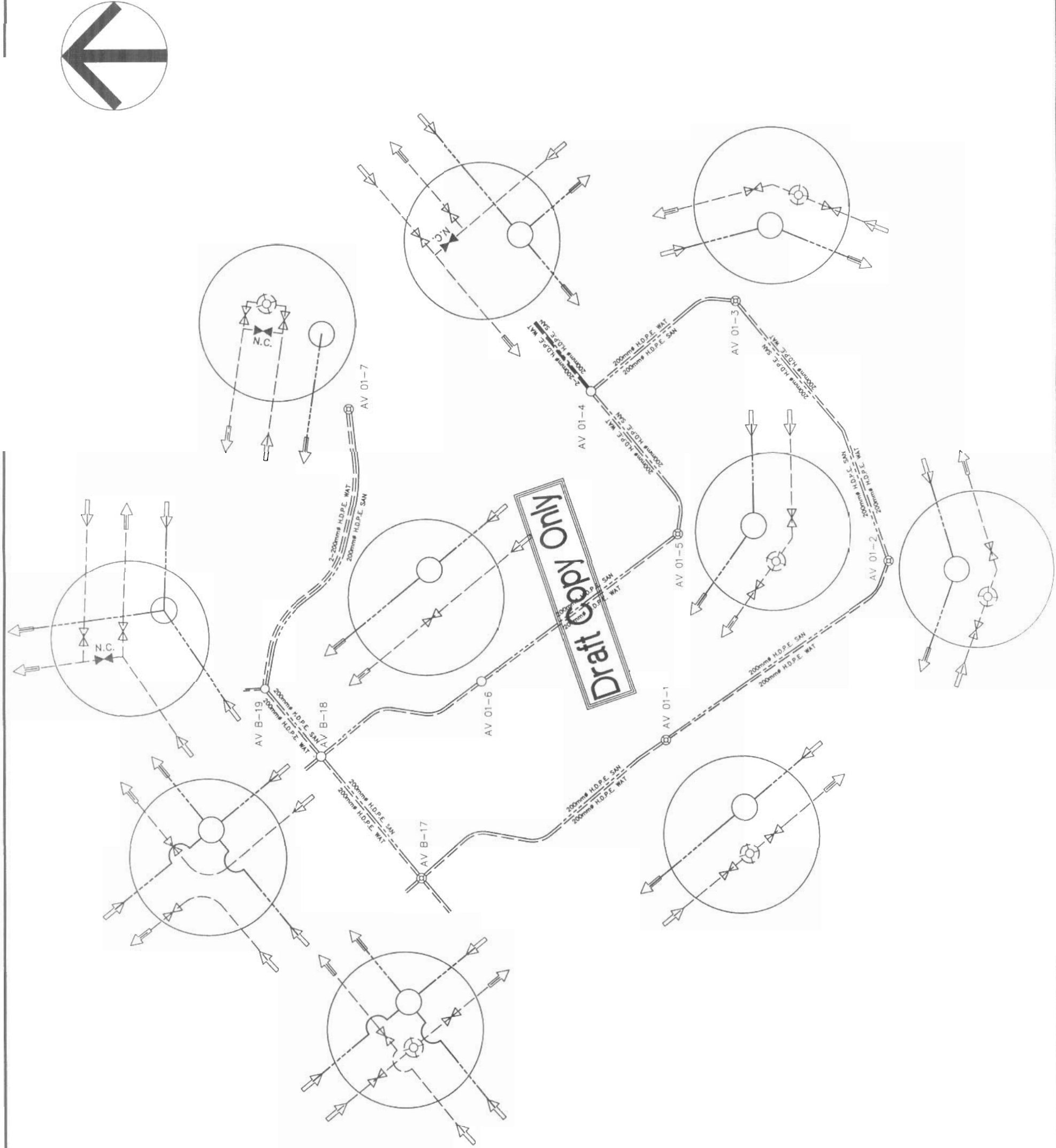
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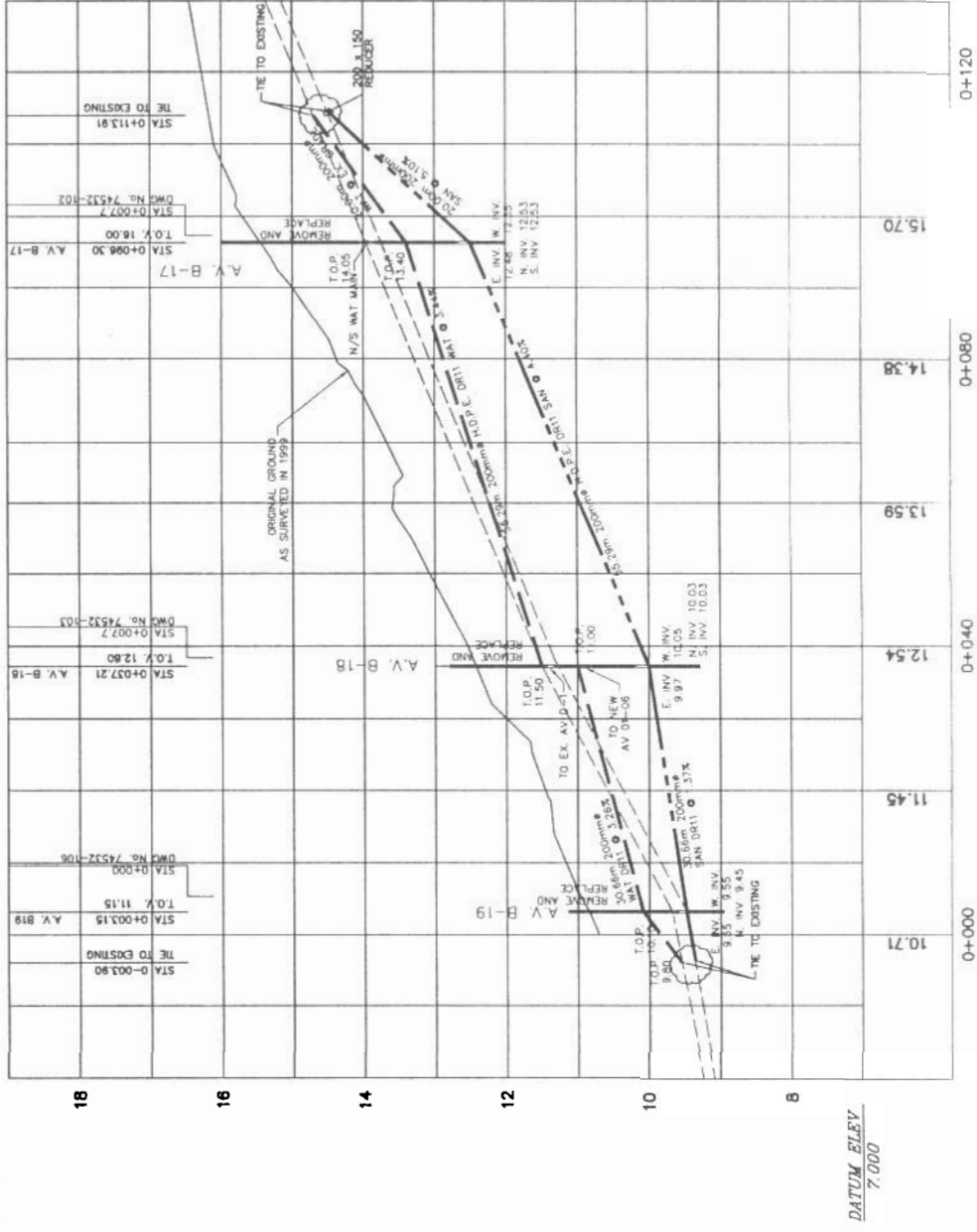
RANKIN INLET

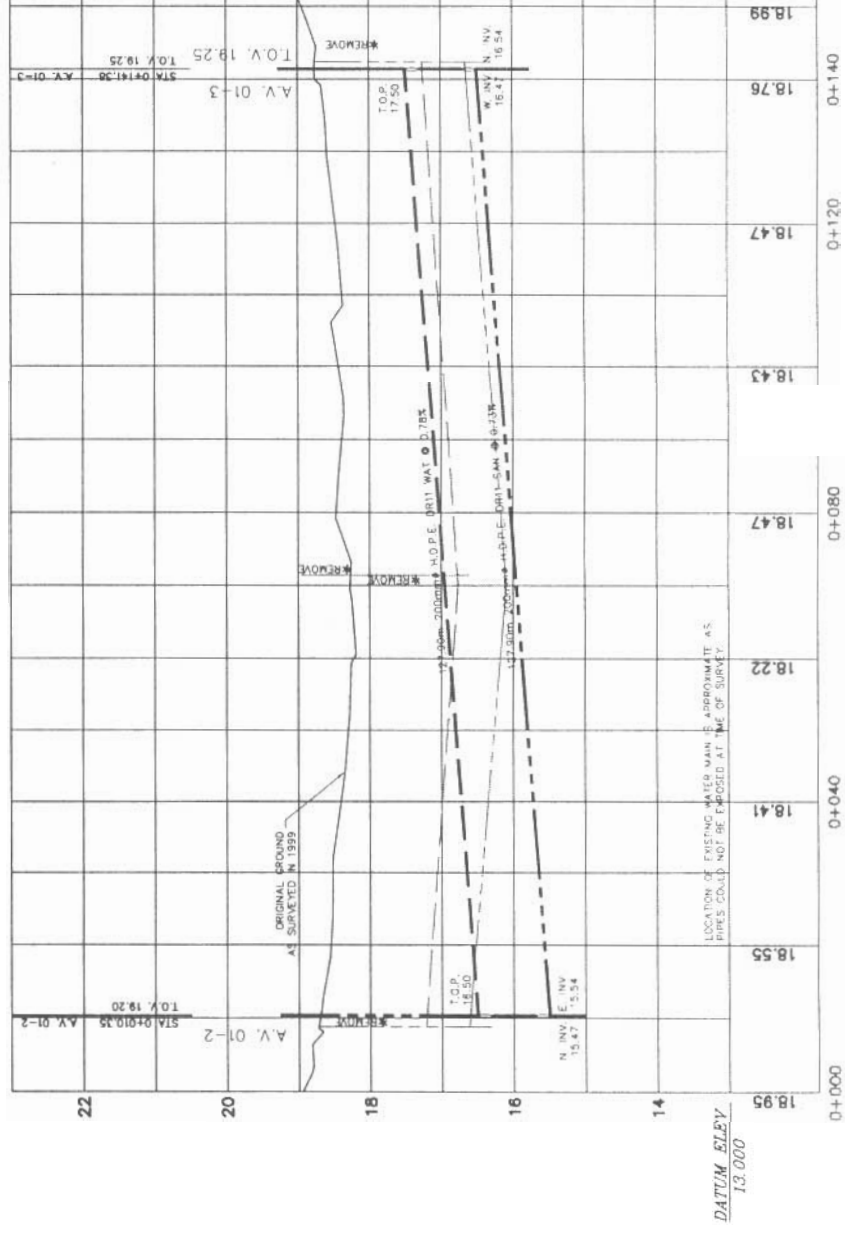


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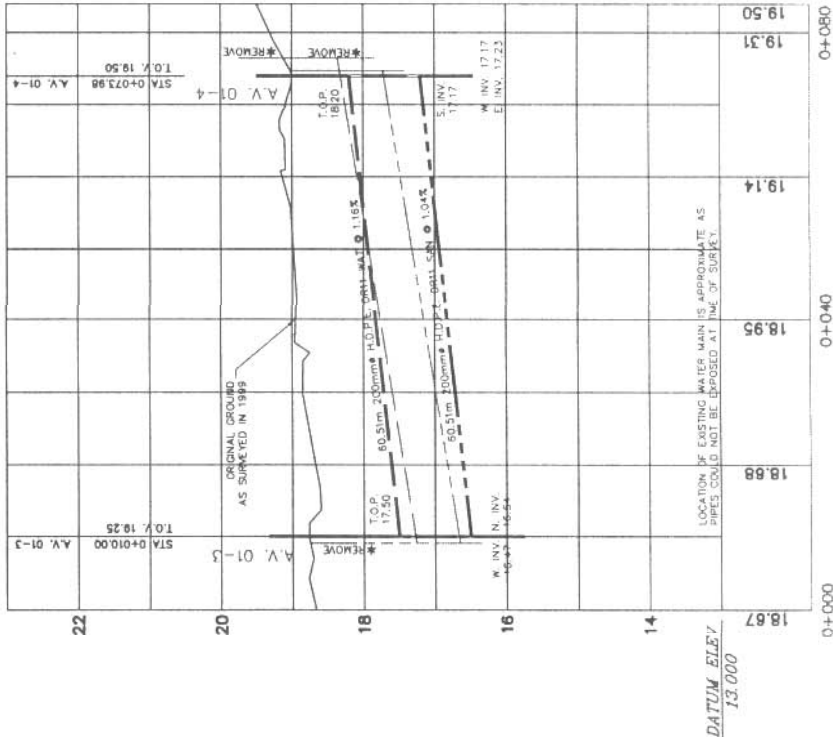
 EARTH TECH A. ENGINEERING LTD. COMPANY		4818 47TH ST TELLMONTE, NT X1A 2H6 CANADA Tel. 687-8721-8318 Fax. 687-8732-8607 www.earthtech.ca																																	
PERMIT TO PRACTICE EARTH TECH (CANADA) INC. Signature _____ Date _____ PERMIT NUMBER: P-005 The Association of Professional Engineers, Geologists and Geophysicists of the NWNTMA																																			
PROJECT AREA 																																			
SEPTEMBER 2004 LOW TIDE: .32m +/- HIGH TIDE: 4.39m +/-																																			
BENCHMARK INFORMATION CCM 8 N. 6964827.31 E. 546910.64 EL. 18.22 CCM 9 N. 6964358.33 E. 547233.40 EL. 31.47 CCM 10 N. 6964186.92 E. 546815.28 EL. 27.24																																			
 A = DETAIL NO. B = LOCATED ON DRAWING NO.																																			
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<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:5%;">0</td> <td style="width:15%;">04 Apr.</td> <td style="width:55%;">ISSUED FOR TENDER</td> <td style="width:25%;">MAL</td> </tr> <tr> <td>No.</td> <td>Date</td> <td>Description</td> <td>Chkd</td> </tr> </table>		0	04 Apr.	ISSUED FOR TENDER	MAL	No.	Date	Description	Chkd																										
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SITE PLAN																																			
Scale 1:5000 Project No. 00 - 3049 April 2004 Drawing No. 74532 - 001 Revision 0																																			







Sanitary and water main map for the area around MAJURVIK (13th AVE.) and NAUYA (14th AVE.). The map shows residential lots 240-262, 243-248, and 253-259. It details the layout of 200mm H.D.P.E. water and sewer lines, including connections to main field determine sewers and replacements to houses. Key features include the intersection of MAJURVIK (13th AVE.) and NAUYA (14th AVE.), and the location of the MAJURVIK (13th AVE.) water main. The map is labeled with 'LTO 1282' and 'MAJURVIK (13th AVE.)' and 'NAUYA (14th AVE.)'.



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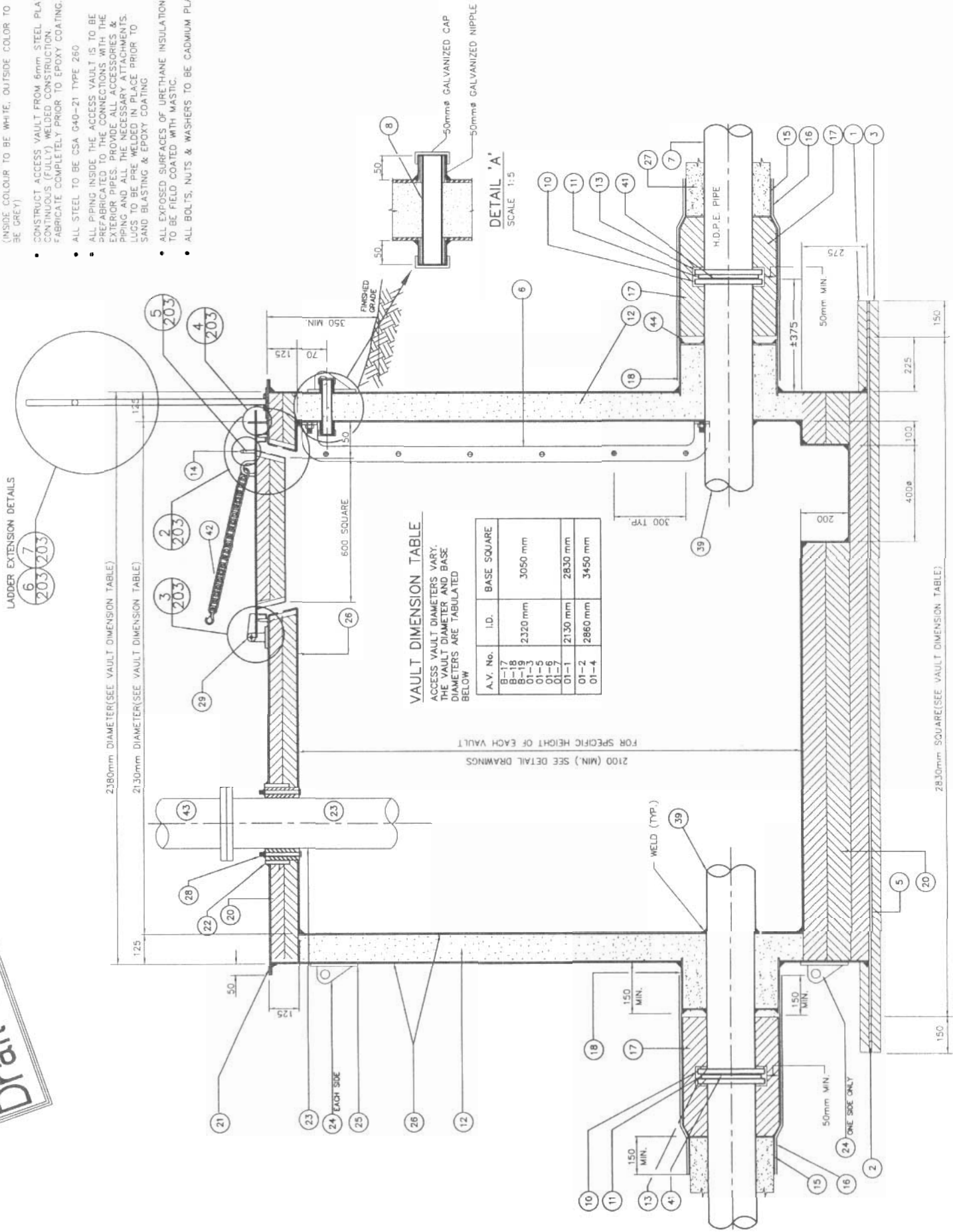
GENERAL NOTES:

- FILL VOID BETWEEN PRE-INSULATED PIPE AND PREFORMED INSULATION HALF-SHELLS WITH FOAMED-IN-PLACE URETHANE.
- ALL PREFABRICATED STEEL PARTS OF ACCESS VAULT SHALL BE SAND BLASTED AND EPOXY COATED INSIDE AND OUTSIDE EXCEPT TOP TO BE GALVANIZED (INSIDE COLOUR TO BE WHITE, OUTSIDE COLOR TO BE GREY).
- CONSTRUCT ACCESS VAULT FROM 6mm STEEL PLATE WITH CONTINUOUS (FULLY) WELDED CONSTRUCTION. FABRICATE COMPLETELY PRIOR TO EPOXY COATING.
- ALL STEEL TO BE CSA G40-21 TYPE 260
- ALL PIPING INSIDE THE ACCESS VAULT IS TO BE PREFABRICATED TO THE CONNECTIONS WITH THE EXTERIOR PIPES. PROVIDE ALL ACCESSORIES & PIPING AND ALL THE NECESSARY ATTACHMENTS. LUGS TO BE PRE WELDED IN PLACE PRIOR TO SAND BLASTING & EPOXY COATING
- ALL EXPOSED SURFACES OF URETHANE INSULATION TO BE FIELD COATED WITH MASTIC.
- ALL BOLTS, NUTS & WASHERS TO BE CADMIUM PLATED

KEY TO NUMBERED PARTS

- 38mm THICK STYROFOAM, CUT TO MATCH EXTERIOR WALL RADIUS.
- FILLER PIECE, 10mm THICK INSULATION.
- 38mm THICK STYROFOAM INSULATION.
- 20mm THICK HIGH DENSITY POLYETHYLENE SHEET.
- 10mm THICK x (SEE DIMENSION TABLE) SQUARE STEEL BASE
- LADDER LENGTH AS REQUIRED, SEE DETAIL DRAWING 74532-202
- 1/2 S. H.D.P.E. PIPE DR.11
- 37mmø PVC CONDUIT (ELECTRICAL) SEE DETAIL 'A'
- 20 GAUGE METAL (DO NOT USE 6mm PLATE).
- FORGED STEEL FLANGE WELDED TO STEEL PIPE 1035 kPa, ASA B 16.1, SIZE TO SUIT, FLAT FACED.
- P.E. STUB END BUTT FUSED TO H.D.P.E. PIPE.
- FOAMED-IN-PLACE INSULATION (URETHANE).
- STEEL (GALVANIZED) SLP-ON FLANGE TO SUIT H.D.P.E. PIPE STUB. DRILL TO ANSI B16.5 BOLT CIRCLES
- HANDLE, 12mmø GALVANIZED STEEL
- FIRST LAYER OF HEAT SHRINK SLEEVE (0.9mm) THICK BLACK POLYETHYLENE SELF ADHESIVE).
- SECOND LAYER OF HEAT SHRINK SLEEVE (SAME AS ITEM 15 ABOVE).
- INSULATED COVER FOR FLANGED JOINT, O.D. TO MATCH O.D. OF ITEM (18) SIZE TO SUIT, MASTIC COATED.
- OUTER STEEL SLEEVE SECTION WELDED TO ACCESS VAULT OUTER WALL 10 mm THICK THICK PROTRUDING 200 mm, O.D. 445 mm FOR 200 mm ø , 380 mm FOR 150 mm ø 330 mm FOR 100mm ø
- 10mm x 50mm CONTINUOUSLY WELDED TO EXTERIOR BARREL
- URETHANE SHEET INSULATION CUT TO SIZE.
- 12mm CAD. PLATED STEEL BOLT, NUT & WASHER, 150mm SPACING.
- 350mmø STD.(346mm I.D.) STEEL PIPE
- x 100mm LONG, WELDED TO ACCESS VAULT, GALV.
- HYDRANT BARREL (McAVITY M67 204.8 O.D.)
- LIFTING LUGS - THREE PER ACCESS VAULT 150mm x 75mm x 12mm THICK WITH 38mmø LIFTING EYE
- REINFORCING PLATE 200mm x 200mm x 12mm CURVED TO EXTERIOR WALL RADIUS
- 6mm THICK STEEL PLATE ACCESS VAULT CONSTRUCTION.
- 75mm URETHANE PIPE INSULATION, SHOP APPLIED.
- LINK SEAL
- HINGES SPACED AT 400mm APART, SEE DETAIL 3/201
- GASKET 50mm x 3mm COMPRESSIBLE NEOPRENE RUBBER
- #12-30 PAN HEAD SHEET METAL SCREWS AT 100mm SPACING.
- HASP ASSEMBLY, SEE DETAIL 4/201
- 12mm x 38mm x 500mm STEEL BAR ALL AROUND HATCH (INSIDE HINGES), TAPPED FOR (36)
- 20mm x 38mm CLOSED CELL NEOPRENE ASTM D1056-B5, GRADE 2A2-CE1/F2MP PERMASTIK 1220X OR EQUAL
- 6mm GALVANIZED BOLT NUT & WASHER AT 100mm SPACING.
- 6mm x 31mm CAD. PLATED STEEL BOLT 150mm SPACING.
- 6.5mm x 17mm SPACER, GALVANIZED PIPE.
- 3mm x32mm x 20mm GALVANIZED IRON.
- SCHEDULE 80 STEEL PIPE, SIZE TO SUIT.
- 38mm WIDE TEFLON TAPE, LOW TEMPERATURE ADHESIVE, 15mil.
- FULL FACE NEOPRENE GASKET AS PER SPECIFICATION (NOT WITH HEAVY CLOTH INSERT)
- 1000mm LONG GRADE 30 REGULAR LINK CHAIN WITH SAFETY HOOK
- c/w SNAP LINKS ON BOTH SIDES
- HYDRANT (McAVITY M-67) AS PER SPECS
- 10mm STEEL RING TO MATCH 6mm WELD TO OUTER SLEEVE AND STEEL PIPE
- 10mm THICK STEEL PLATE, 50mm x 225mm
- 25mmø GALVANIZED STEEL BAR

PARTS MARKED AS *
SEE DETAILS ON DRAWING 203



1 STEEL PREFABRICATED ACCESS VAULT TYPICAL SECTION
201 SCALE 1:10



- ① 25mm $\varnothing$ N.P.T. PLUG
- ② 25mm $\varnothing$ BALL VALVE
- ③ 25mm $\varnothing$ N.P.T. NIPPLE
- ④ 25mm $\varnothing$ -90° GALVANIZED ELBOW
- ⑤ 25mm $\varnothing$ THREADLET
- ⑥ WATERMAIN



- ① WATERMAIN
- ② 50mm N.P.T. PLUG
- ③ 50mm ϕ BALL VALVE—FULL PORT OPEN
- ④ 50mm ϕ N.P.T. NIPPLE
- ⑤ 50mm ϕ LATROLET

ALL FITTINGS GALVANIZED AFTER FABRICATION



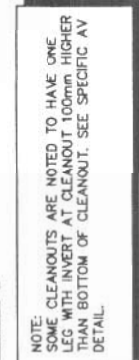
PLAN



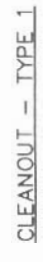
SECTION



1
202



SECTION X-X
SCALE 1:5



DETAIL



DETAIL
SCALE 1:10



ACCESS VAULT MARKER POST

LARD DETAILS



ELEVATION
SCALE 1:5

KEY TO NUMBERED PARTS (CLEANOUT ONLY)

- 1 25 N.P.T. HALF COUPLING $c/4$ NIP & CAP
- 2 SCH. 40 STEEL PIPE NIPPLE GROOVED, SIZED TO SUIT.
- 3 CLEANOUT COVER AND SEAL LIP FABRICATED FROM 6mm THICK PLATE CONTOURED TO FIT COVER AND HOT DIPPED GALVANIZED AFTER FABRICATION
- 4 CLEANOUT BODY FABRICATED FROM 6mm THICK PLATE CONTINUOUS BUTT WELDED AND HOT DIPPED GALVANIZED AFTER FABRICATION
- 5 BOLT LUGS TAPPED
- 6 12 mm x 50 mm LONG CAD PLATED HEX HEAD CAP SCREW WITH WING HEAD
- 7 20mm ϕ ONE PIECE SOFT RUBBER GASKET, STRETCH TO FIT COVER
- 8 12mm SQUARE ROD RIM
- 9 DRILL AND TAP 12mm.
- 10 25 x 25 x 6 L FOR LIP SEAL

NOTES:

SEE INDIVIDUAL ACCESS VALLIES FOR
FOR NUMBER AND SIZE OF SLIPS TO
AT EACH ACCESS VALL AND FOR AN
RE-MEN STIES

NOTE
EPOXY COATED AFTER FABRICATION

ACCESS VAULT LADDER DETAIL

SPAIN 101

BOLLARD

ACCESS VAULT MARKER POST

LARD DETAILS

ACCESS VAULTS
MISC. DETAILS

Scale AS NOTED

Project No. 00-3049

74532-202