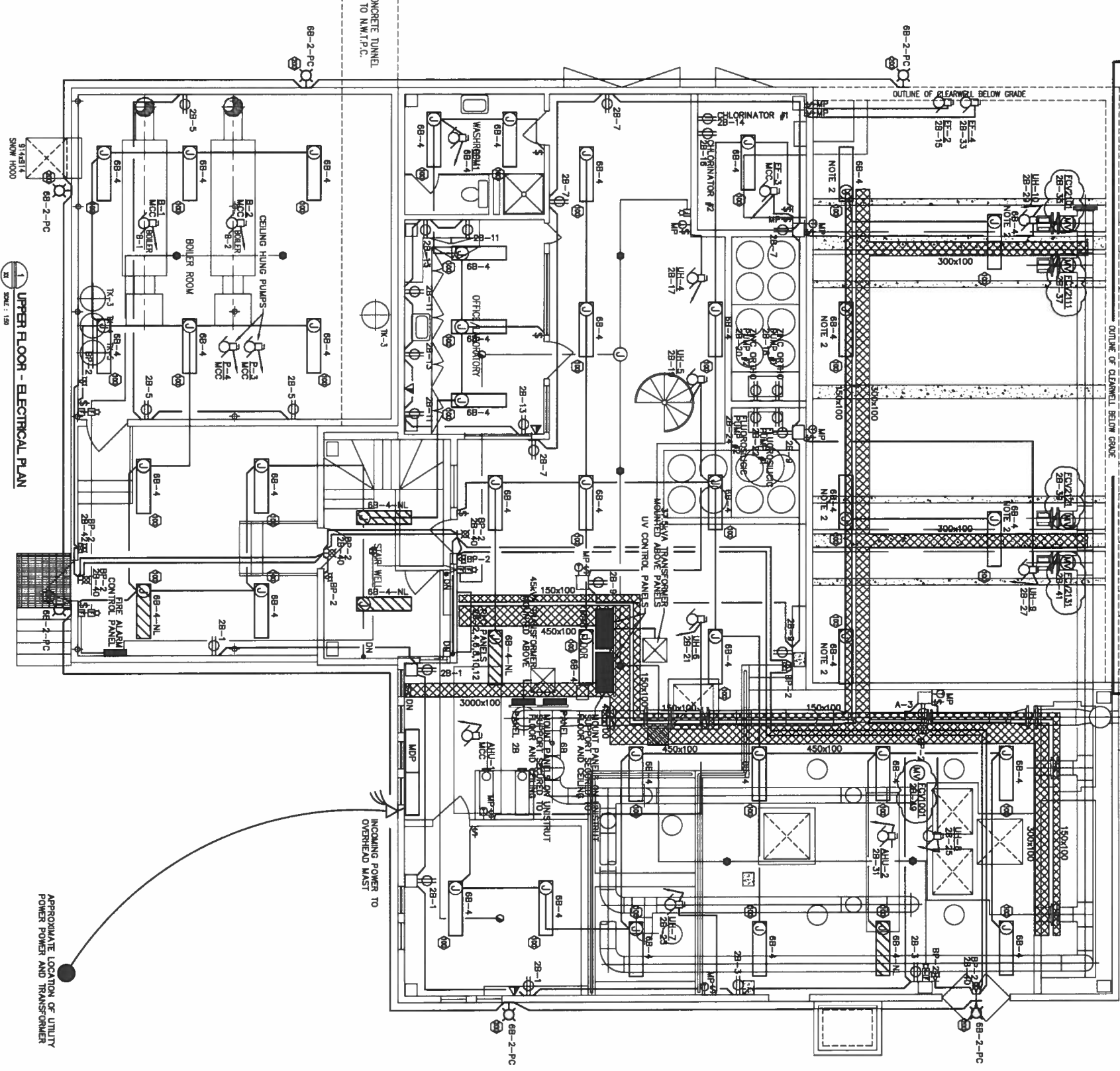


W/INTO TUNNEL

OUTLINE OF CLEANWELL BELOW GRADE

W/INTO TUNNEL



UPPER FLOOR - ELECTRICAL PLAN
SCALE: 1/8"

APPROXIMATE LOCATION OF UTILITY
POWER POWER AND TRANSFORMER

ELECTRICAL LEGEND

- COMPACT FLUORESCENT OR H.L.D. LUMINAIRE - WALL MOUNTED
- WALL MOUNTED EXIT LIGHT - DIRECTIONAL ARROWS AS INDICATED
- FLUORESCENT LUMINAIRE - SURFACE MOUNTED OR SUSPENDED
- INDICATES NIGHT LIGHT
- PHOTO ELECTRIC CELL
- BATTERY PACK C/W HEADS AS INDICATED
- EMERGENCY RELAYE HEADS
- SINGLE POLE SWITCH
- LUMINAIRE TYPE
- DUPLEX RECEPTACLE
- MOTOR
- MOTORIZED VALVE
- DISCONNECT SWITCH
- MANUAL MOTOR STARTER C/W PILOT LIGHT
- MAGNETIC MOTOR STARTER
- THERMOSTAT
- PANLEBOARD
- MANUAL BREAKGLASS STATION
- FIRE ALARM HORN C/W VISUAL ALARM STROBE
- SMOKE DETECTOR
- THERMAL DETECTOR - RATE OF RISE
- THERMAL DETECTOR - HIGH TEMPERATURE FIXED
- COMBINATION VOICE/DATA OUTLET BOX AND JACKS

NOTES

- REFER TO MOTOR SCHEDULE FOR CONDUIT AND WIRE SIZES
- CENTER LIGHT FIXTURE OVER CATWALK

PANEL 2B			
DESCRIPTION	KW	BKRL	CIRCUIT NO.
DESCRIPTION			

DESCRIPTION	KW	BKRL	CIRCUIT NO.	DESCRIPTION	KW	BKRL	CIRCUIT NO.
DESCRIPTION				DESCRIPTION			

PANEL 6B			
DESCRIPTION	KW	BKRL	CIRCUIT NO.
DESCRIPTION			

DESCRIPTION	KW	BKRL	CIRCUIT NO.	DESCRIPTION	KW	BKRL	CIRCUIT NO.
DESCRIPTION				DESCRIPTION			

RECORD DRAWING
INFORMATION CONTAINED IN THESE DRAWINGS
IS AS SUPPLIED BY:
THE RECORD DRAWING IS NOT GUARANTEED.
INFORMATION SHOULD BE VERIFIED AT THE
ACTUAL LOCATION BEFORE USE.

UPPER FLOOR
ELECTRICAL PLAN
AND SCHEDULES

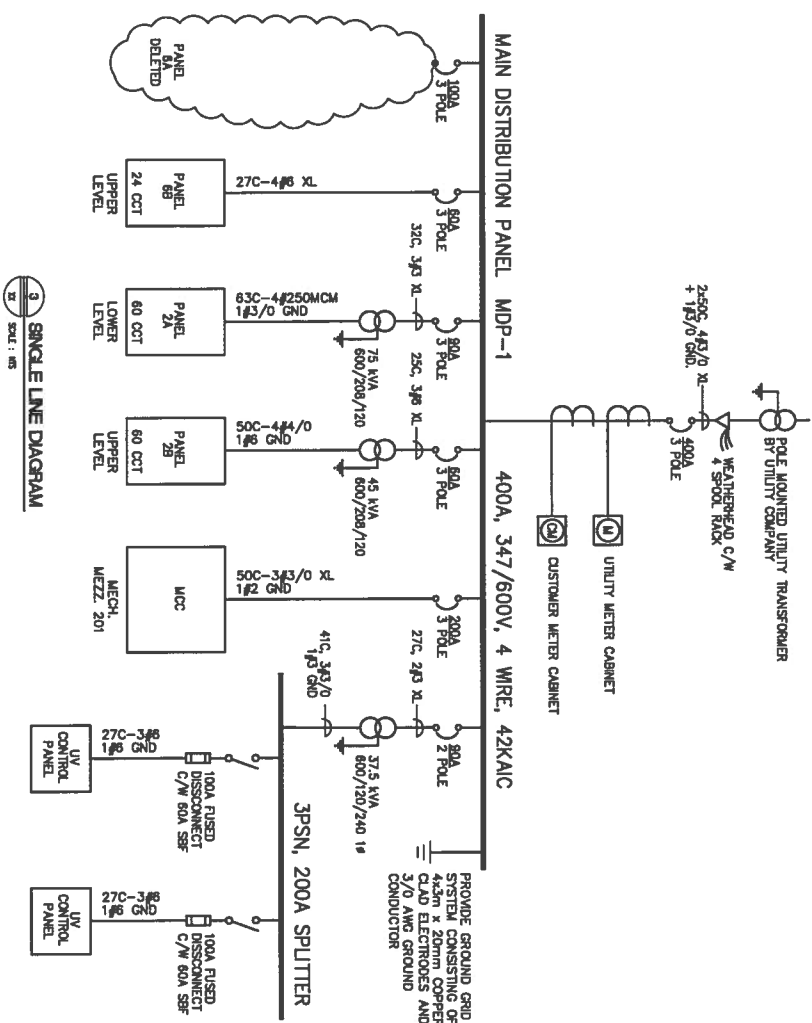
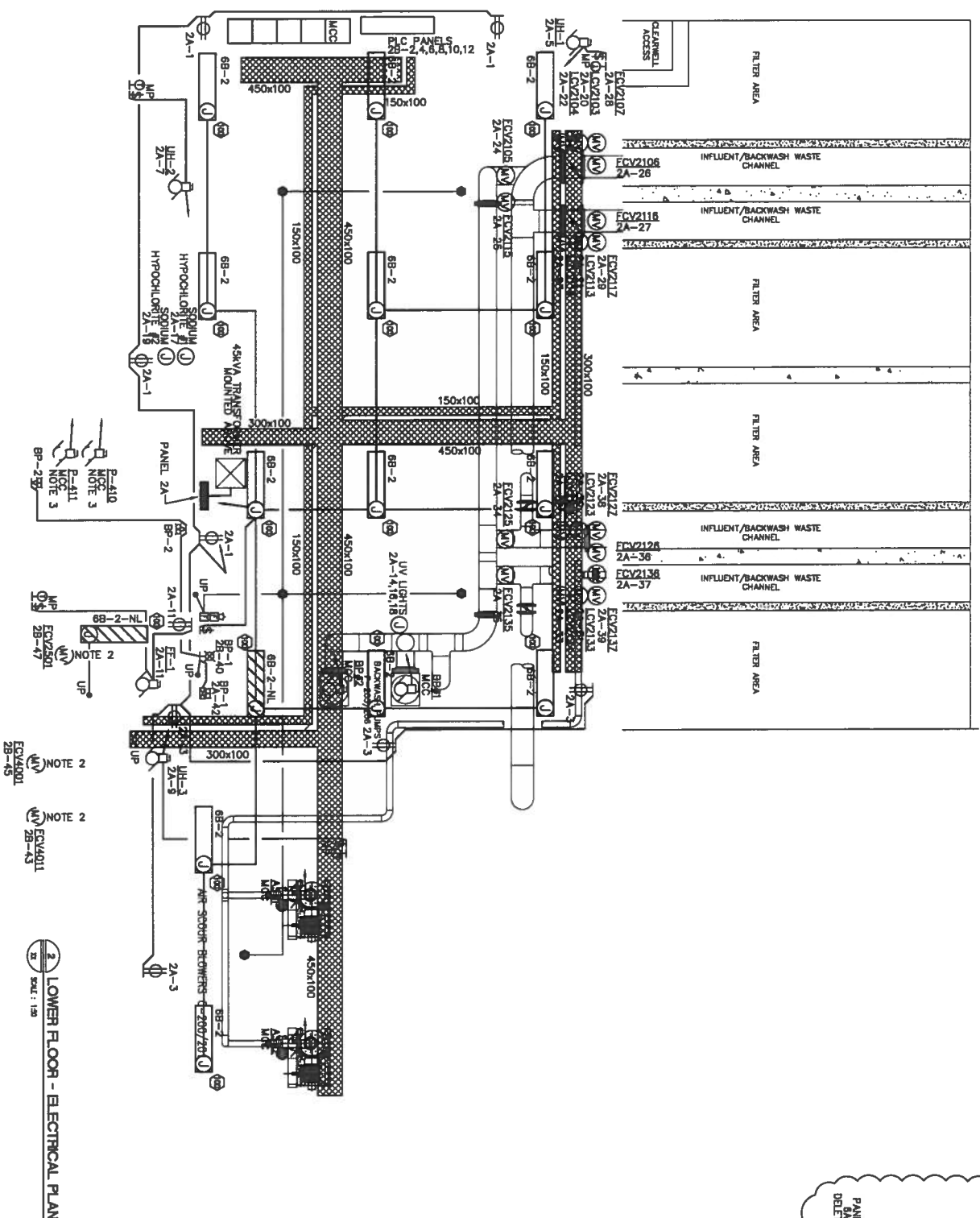
City of Iqaluit
CITY OF IQALUIT,
Nunavut

City of Iqaluit
CITY OF IQALUIT
WATER TREATMENT PLANT

Scale: AS NOTED
DATE: FEB. 03, 2003
REV. 1

Sheet No. 55524

1. REFER TO MOTOR SCHEDULE FOR CONDUIT AND WIRE SIZES FOR ALL MOTORS.
2. MOTORIZED VALVE LOCATED ON CLEARMELL FLOOR LEVEL. CONFIRM EXACT LOCATION PRIOR TO ROUGHIN.
3. PUMPS LOCATED ON CLEARMELL FLOOR LEVEL. CONFIRM EXACT LOCATION PRIOR TO ROUGHIN.
4. SUPPLY DISCOUNT (2A-13 FOR LIGHTING AND 2A-15 FOR POWER AND THERMAL) LOCATED ON CLEARMELL FLOOR LEVEL. PROVIDE ALL REQUIREMENTS ASSOCIATED WITH MAKING POWER AND LIGHTING CONNECTIONS.



PANEL					2A	
DESCRIPTION	KW	BOL.	CIRCUIT NO.	BOL.	KW	DESCRIPTION
DOOR HEATER	1P15A	1	2	1P15A		P/C PANELS
DOOR TRAILER	1P15A	3	4	1P15A		P/C PANELS
UNIT HEATER 1B-1	1P15A	5	6	1P15A		P/C PANELS
UNIT HEATER 1B-2	1P15A	7	8	1P15A		P/C PANELS
UNIT HEATER 1B-3	1P15A	8	10	1P15A		P/C PANELS
DOOR ALARMS	1P15A	11	12	1P15A		P/C PANELS
DOOR ALARMS	1P15A	13	14	1P15A	14	PANEL
SEALANT MOTOR	1P15A	15	16	1P15A	10	MEDIANEOL ROOM
HYDROCLIMATE #1	1P15A	17	18	1P15A		SPACE
HYDROCLIMATE #2	1P15A	19	20	1P15A		MOTORIZED VALVE
MOTORIZED VALVE	1P15A	21	22	1P15A		MOTORIZED VALVE
DO 2112 VALVE	1P15A	23	24	1P15A		MOTORIZED VALVE
MOTORIZED VALVE	1P15A	25	26	1P15A		MOTORIZED VALVE
DO 2118 VALVE	1P15A	27	28	1P15A		MOTORIZED VALVE
MOTORIZED VALVE	1P15A	29	30	1P15A		MOTORIZED VALVE
DO 2123 VALVE	1P15A	31	32	1P15A		MOTORIZED VALVE
MOTORIZED VALVE	1P15A	33	34	1P15A		MOTORIZED VALVE
MOTORIZED VALVE	1P15A	35	36	1P15A		MOTORIZED VALVE
DO 2133 VALVE	1P15A	37	38	1P15A		MOTORIZED VALVE
MOTORIZED VALVE	1P15A	39	40	1P15A		SPACE
MOTORIZED VALVE	1P15A	41	42	1P15A		BATTERY PACK 1B-1
DO 2137 VALVE	1P15A	43	44	1P15A		REC'D PLUGS
MOTORIZED VALVE	1P15A	45	46	1P15A		TO DAVE
DO 2143 VALVE	1P15A	47	48	1P15A		SPACE
MOTORIZED VALVE	1P15A	49	50	1P15A		UNIT HEATER
DO 2147 VALVE	1P15A	51	52	1P15A		UNIT HEATER
MOTORIZED VALVE	1P15A	53	54	1P15A		UNIT HEATER
DO 2153 VALVE	1P15A	55	56	1P15A		UNIT HEATER
MOTORIZED VALVE	1P15A	57	58	1P15A		UNIT HEATER
DO 2157 VALVE	1P15A	59	60	1P15A		UNIT HEATER
MOTORIZED VALVE	1P15A	61	62	1P15A		UNIT HEATER
DO 2163 VALVE	1P15A	63	64	1P15A		UNIT HEATER
MOTORIZED VALVE	1P15A	65	66	1P15A		UNIT HEATER
DO 2167 VALVE	1P15A	67	68	1P15A		UNIT HEATER
MOTORIZED VALVE	1P15A	69	70	1P15A		UNIT HEATER
DO 2173 VALVE	1P15A	71	72	1P15A		UNIT HEATER
MOTORIZED VALVE	1P15A	73	74	1P15A		UNIT HEATER
DO 2177 VALVE	1P15A	75	76	1P15A		UNIT HEATER
MOTORIZED VALVE	1P15A	77	78	1P15A		UNIT HEATER
DO 2183 VALVE	1P15A	79	80	1P15A		UNIT HEATER
MOTORIZED VALVE	1P15A	81	82	1P15A		UNIT HEATER
DO 2187 VALVE	1P15A	83	84	1P15A		UNIT HEATER
MOTORIZED VALVE	1P15A	85	86	1P15A		UNIT HEATER
DO 2193 VALVE	1P15A	87	88	1P15A		UNIT HEATER
MOTORIZED VALVE	1P15A	89	90	1P15A		UNIT HEATER
DO 2197 VALVE	1P15A	91	92	1P15A		UNIT HEATER
MOTORIZED VALVE	1P15A	93	94	1P15A		UNIT HEATER
DO 2203 VALVE	1P15A	95	96	1P15A		UNIT HEATER
MOTORIZED VALVE	1P15A	97	98	1P15A		UNIT HEATER
DO 2207 VALVE	1P15A	99	100	1P15A		UNIT HEATER
MOTORIZED VALVE	1P15A	101	102	1P15A		UNIT HEATER
DO 2213 VALVE	1P15A	103	104	1P15A		UNIT HEATER
MOTORIZED VALVE	1P15A	105	106	1P15A		UNIT HEATER
DO 2217 VALVE	1P15A	107	108	1P15A		UNIT HEATER
MOTORIZED VALVE	1P15A	109	110	1P15A		UNIT HEATER
DO 2223 VALVE	1P15A	111	112	1P15A		UNIT HEATER

Company Permit Engineer Seal

ELECTRICAL

LOWER FLOOR
ELECTRICAL PLAN
AND SCHEDULES

CITY OF IQUALUIT

QUALITY WATER TREATMENT PLANT

TECH TALK

1				
2	RECORD DRAWING	23/04/04		
0	ISSUED FOR CONSTRUCTION	22/04/03		
1	ISSUED FOR TENDER	19/02/03		
NO.	REVISION	DATE	INITIAL	

RECORD DRAWING
INFORMATION CONTAINED IN THESE DRAWINGS
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KRI ELECTRIC
THE COMPLETENESS AND ACCURACY OF THIS
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INFORMATION SHOULD BE VERIFIED AT THE
ACTUAL LOCATION BEFORE USE.

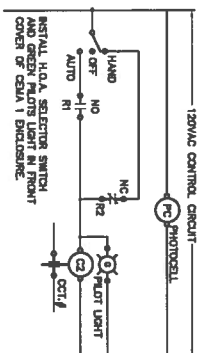
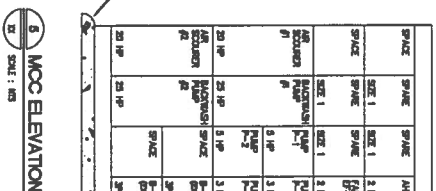
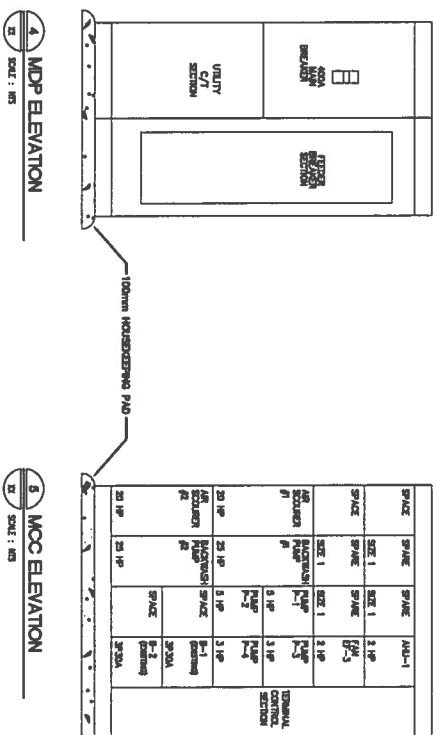
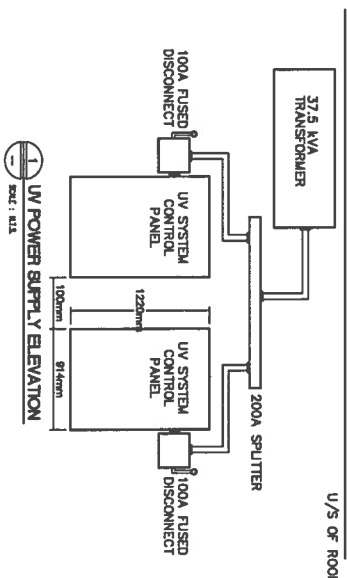
Iqaluit

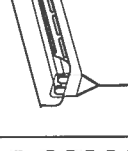
CITY of IQALUIT,
Nunavut

QUALITY WATER TREATMENT PLANT

DRAWN BY: FF	SCALE:	DATE:	SHEET NO.
CHECKED BY: WA	AS NOTED	FEB. 03, 2003	
CADD SYSTEM	DWG NO.		
AUTOCAD		E-2	REV. 1
			CONTRACT 55524

DATE:	FEB. 03, 2003	SHEET NO.
REV.	1	CONTRACT
E-2		55524

[illegible][illegible]

 LAMP TYPE: 32 WATT, T-8, FLUORESCENT LAMP QTY: 2 MOUNTING: SUSPENDED CEILING HOUSING: COOL ROLLED STEEL REFLECTOR: SLOTTED - WHITE POWDER PAINT LENS: NONE SPECIAL REQUIREMENT:	Performance and design to meet the following minimum requirements. Per approval of ACCEPTABLE PRODUCTS: _____ MANUFACTURER: _____ PART No. _____ CPI MATERIAL UTURNAL	LUMINAIRE SCHEDULE 100 TYPE No. 100
 LAMP TYPE: 150 WATT, HIGH PRESSURE SODIUM LAMP QTY: 1 SURFACE: WALL MOUNTING: WEATHER RESISTANT DIE CAST ALUMINUM REFLECTOR: SPECIAL ALZAK ALUMINUM LENS: MOLDED POLYCARBONIC SHOCK RESISTANT GLASS SPECIAL REQUIREMENT:	Performance and design to meet the following minimum requirements. Per approval of ACCEPTABLE PRODUCTS: _____ MANUFACTURER: _____ PART No. _____ COOPER HOLDING LUMINAIRE INDICATE	LUMINAIRE SCHEDULE 200 TYPE No. 200

[illegible]

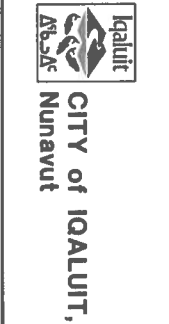
NO.	REVISION	DATE	INITIAL
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1	ISSUED FOR CONSTRUCTION	22/04/03	
2	RECORD DRAWING	19/07/04	

Company Permit

Engineer Seal

INFORMATION CONTAINED IN THESE DRAWINGS IS AS SUPPLIED BY THE SCHED. MECHANICAL CONTRACTOR. THE COMPLETION AND ACCEPTANCE OF THIS RECORD DRAWING IS NOT GUARANTEED. INFORMATION SHOULD BE OBTAINED ON LOCATION AND USED AS SUCH.

PLC SYSTEM



CITY OF IQALUIT

IQALUIT WATER TREATMENT PLANT

Earth Tech (Canada) Inc.

Drawn by: TDC

Checked by: MJS

CAD SYSTEM: AutoCAD

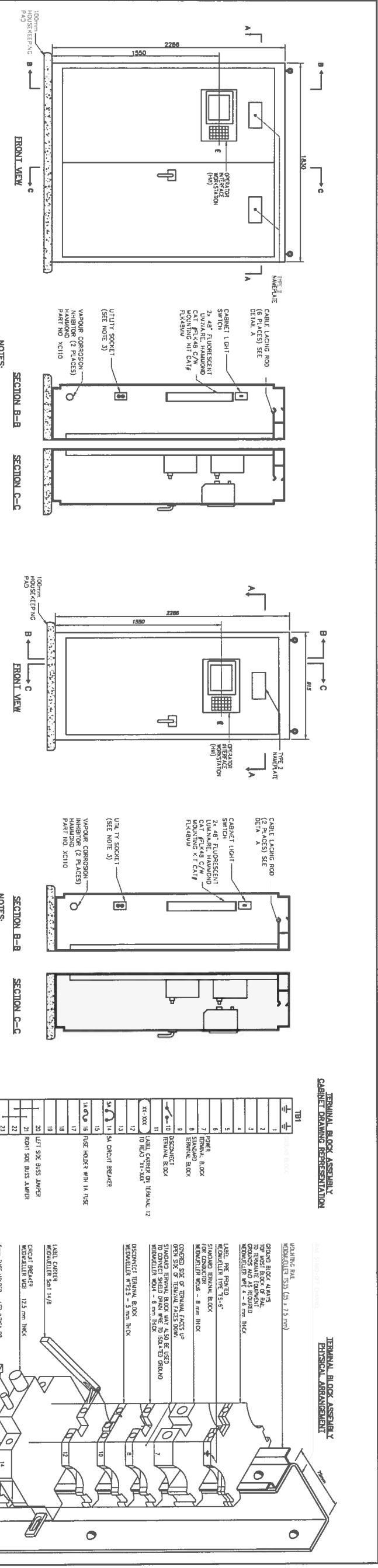
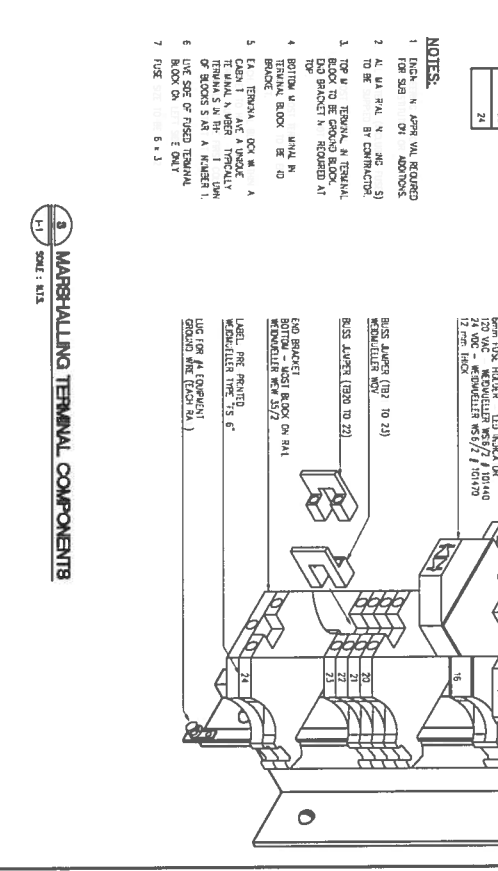
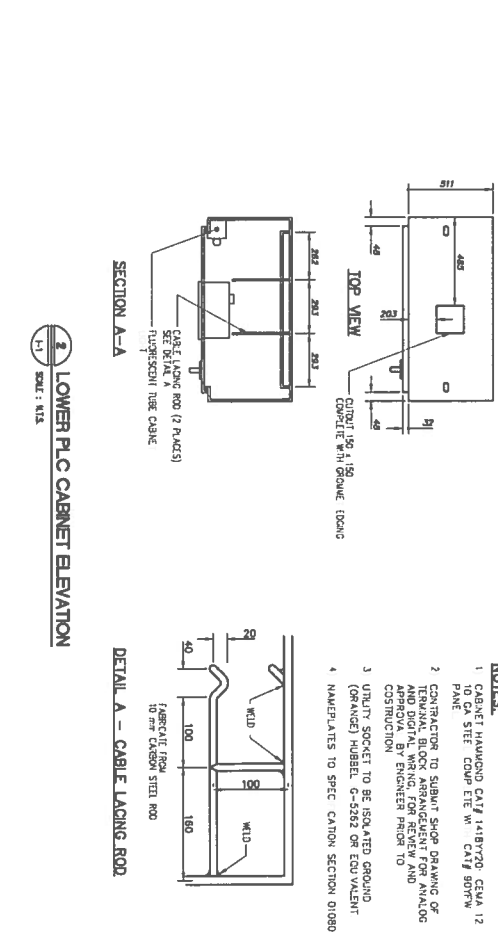
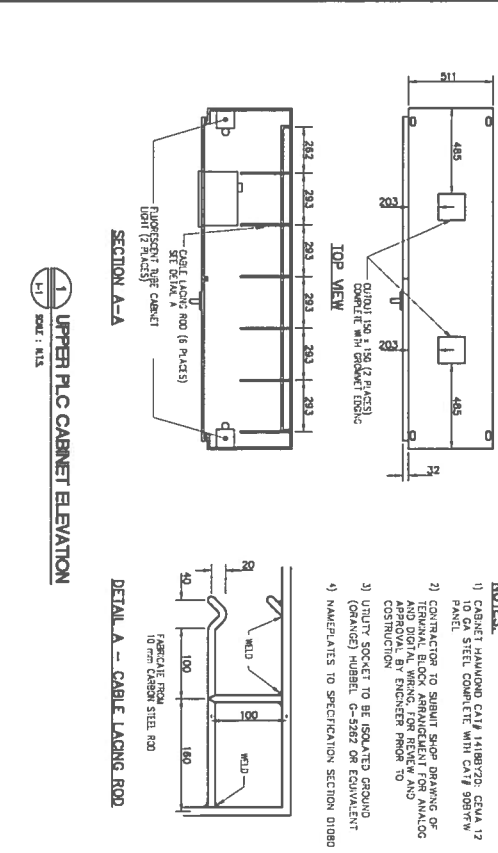
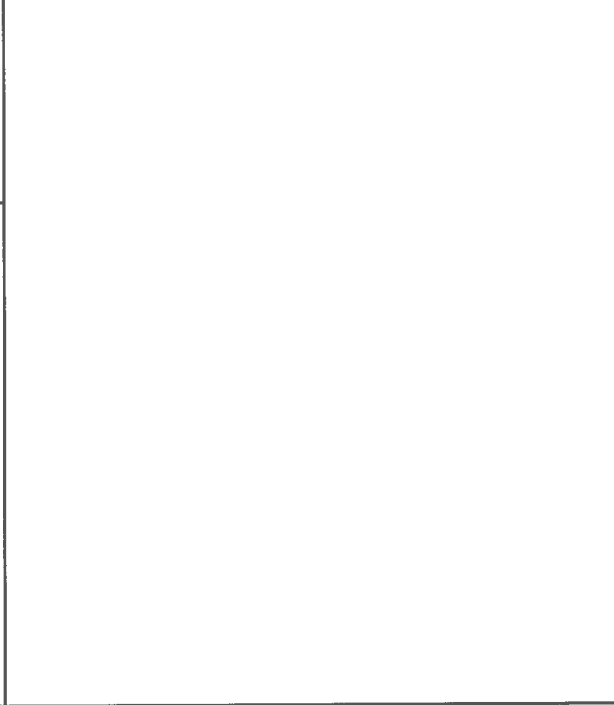
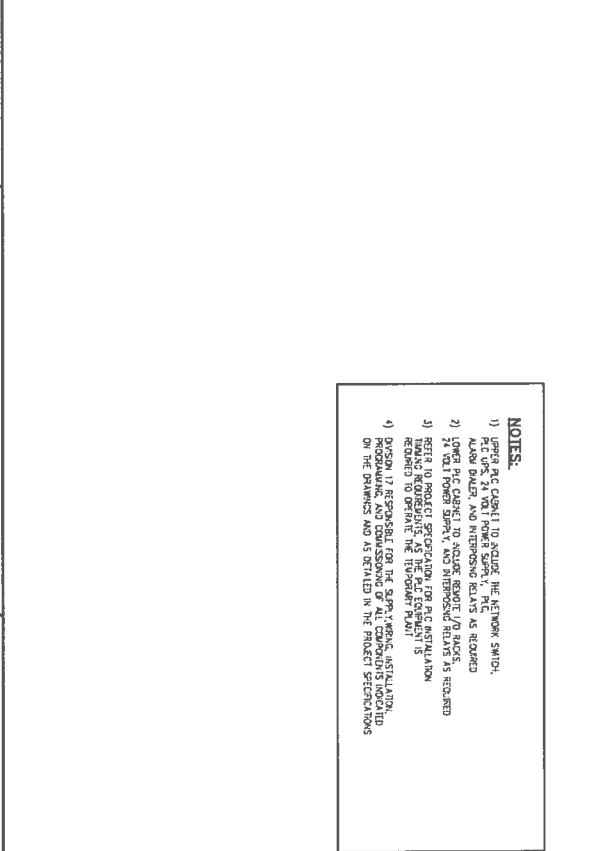
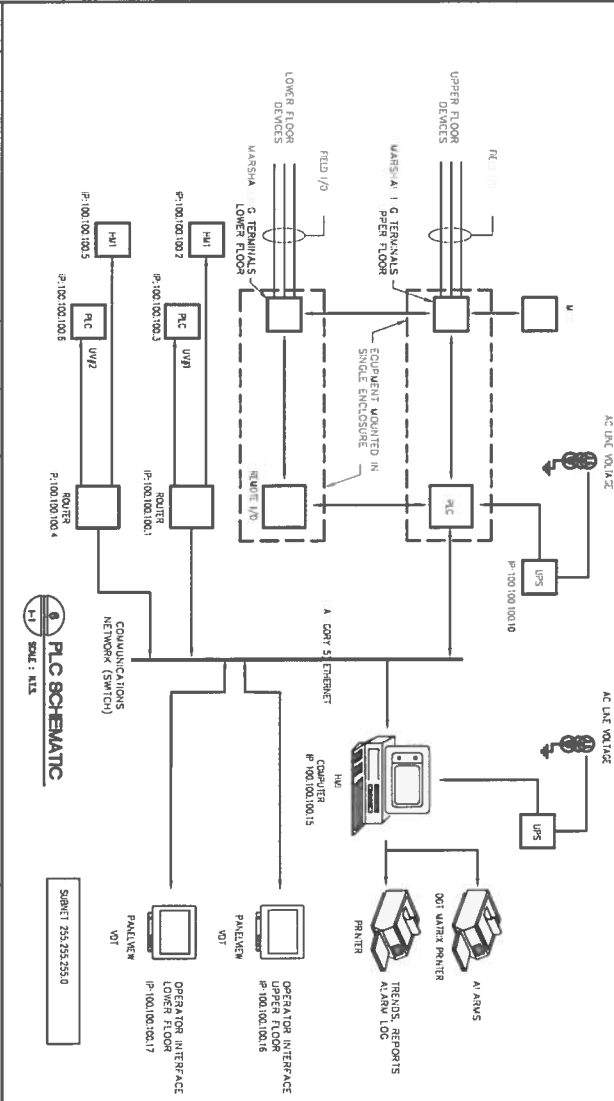
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DATE: FEB. 03, 2003

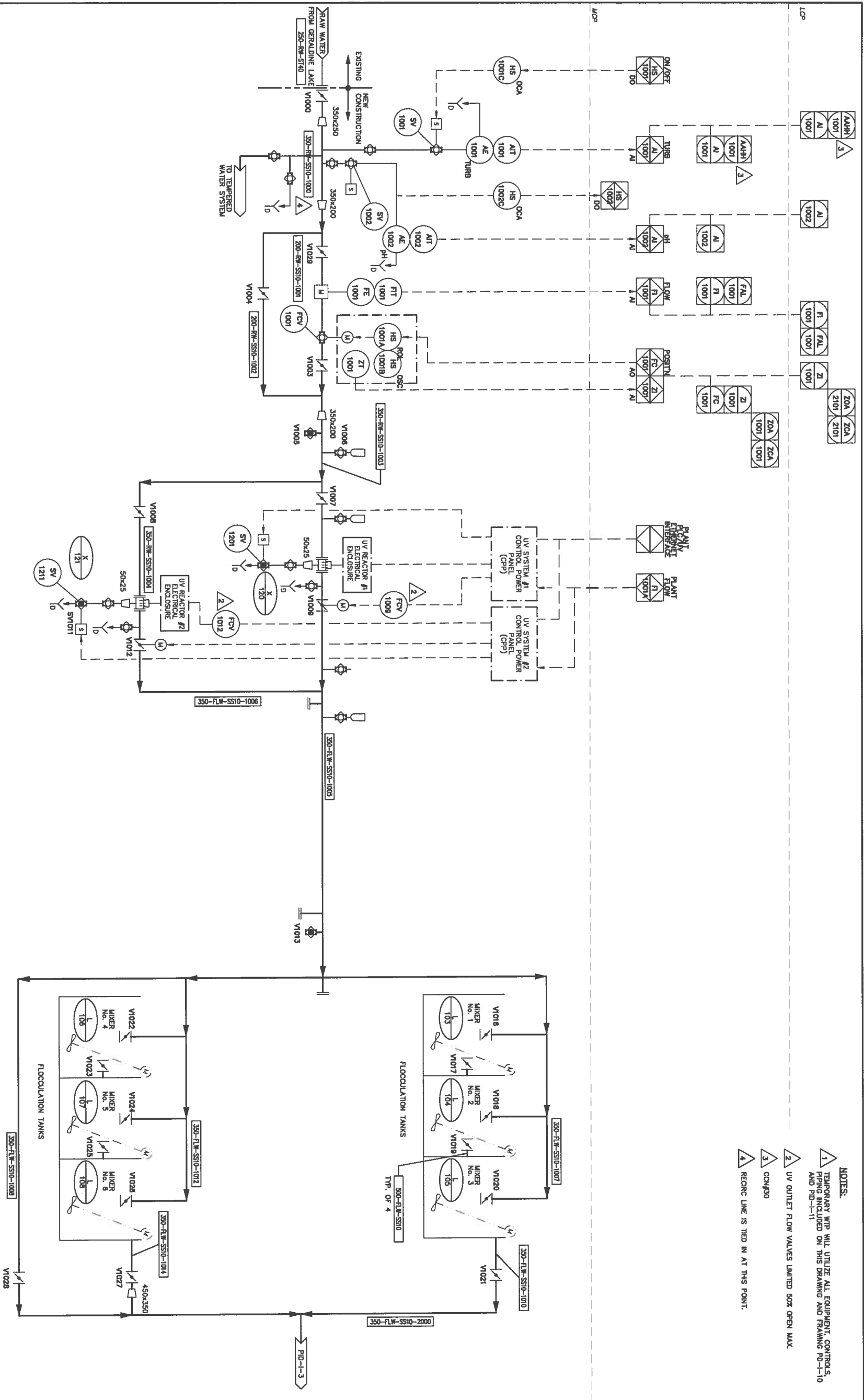
REV: 55561

SHEET NO.

CONTRACT



- NOTES:**
- TEMPORARY WTP WILL UTILIZE ALL EQUIPMENT, CONTROLS, PIPING INCLUDED ON THIS DRAWING AND FRAMING PD-1-10 AND PD-1-11
 - UV OUTLET FLOW VALVES LIMITED 50% OPEN MAX.
 - CCN#30
 - RECIRC LINE IS TIED IN AT THIS POINT.

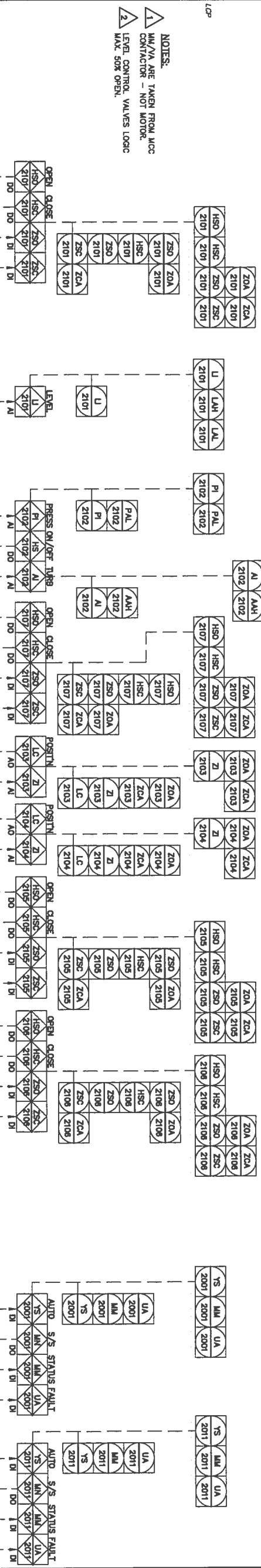


FCV 1001
1.2 M/day - 100M/day
MODULATING CONTROL

FCV 1008
1.2 M/day - 100M/day
ON/OFF CONTROL

FCV 1012
1.2 M/day - 100M/day
ON/OFF CONTROL

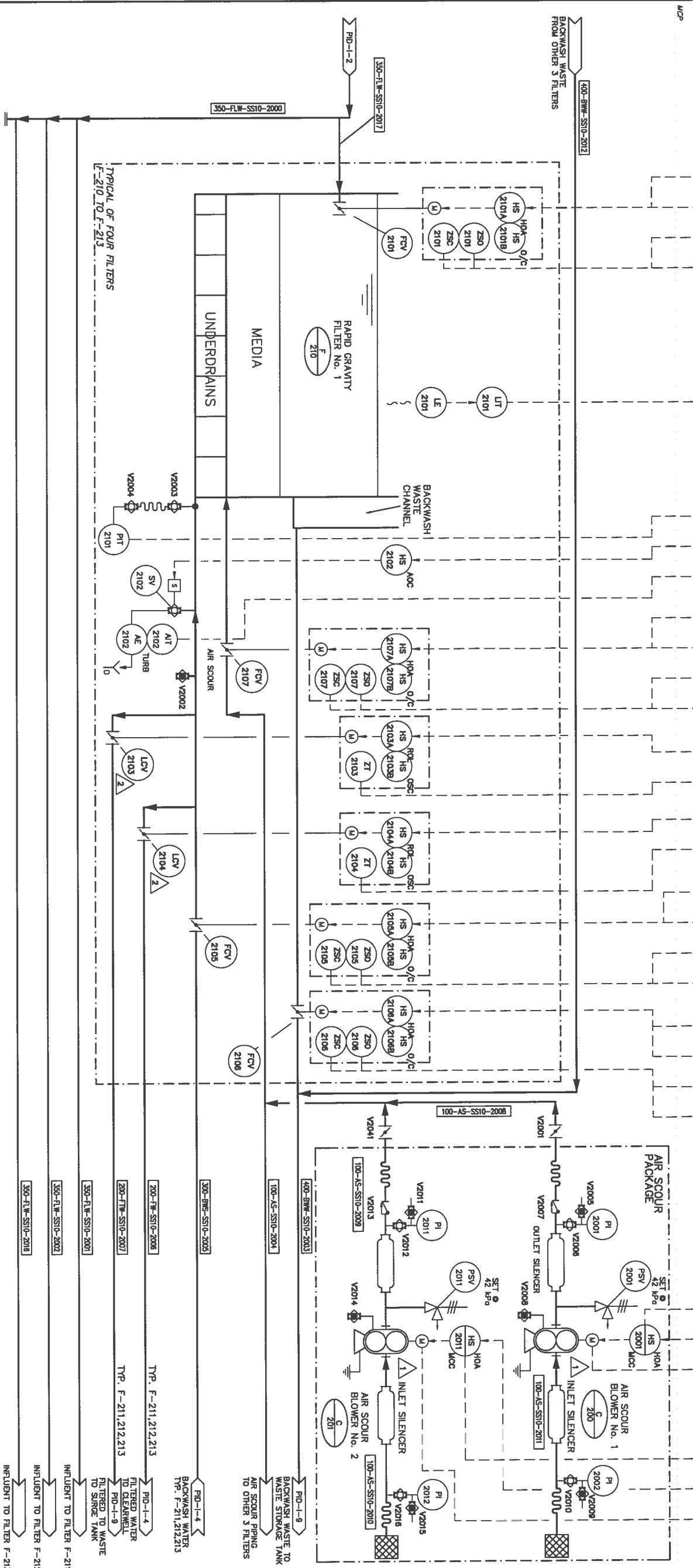
Company Permit		Engineer Seal	
RECORD DRAWING		PROCESS & INSTRUMENTATION	
P & ID - PRE-TREATMENT		CITY OF IQALUIT	
Iqaluit CITY OF IQALUIT, Nunavut		IQALUIT WATER TREATMENT PLANT	
EARTH T E R R O N		Earth Tech (Canada) Inc.	
DRAWN BY: CKW		SCALE: NOT NOTED	
CHECKED BY: CKW/JMH		DATE: FEB. 02/02/03	
CADD SYSTEM		DWG NO. 1-2	
AutoCAD		REV. 2	
55524		55524	



NOTES:

1 MM/VA ARE TAKEN FROM MCC CONTACTOR - NOT MOTOR.

2 LEVEL CONTROL VALVES LOGIC MAX. 50% OPEN.



TYPICAL OF FOUR FILTERS
F-210 TO F-213

FCV 2101
0.0 mL/day - 2.5mL/day
ON/OFF CONTROLFCV 2107
0.0 - 840 M³/hour (normal)
ON/OFF CONTROL

LCV 2103	LCV 2104
0.0 - 2.5mL/day	0.0 - 2.5mL/day
MODULATING CONTROL	MODULATING CONTROL

FCV 2105
0 - 167.0 L/s
1/OFF CONTROLFCV 2108
0.0 ~ 157.0 L/s
ON/OFF CONTROL

Company	Permit	Engineer Seal

PROCESS & INSTRUMENTATION

CITY OF IQALUIT

EARTH TECH

RECORD DRAWING
INFORMATION CONTAINED IN THESE DRAWINGS IS
AS SUPPLIED BY: SCHENCK MECHANICAL
CONSTRUCTION LTD. 4 LECROUX AVENUE
SCARBOROUGH, ONTARIO M1V 4P4

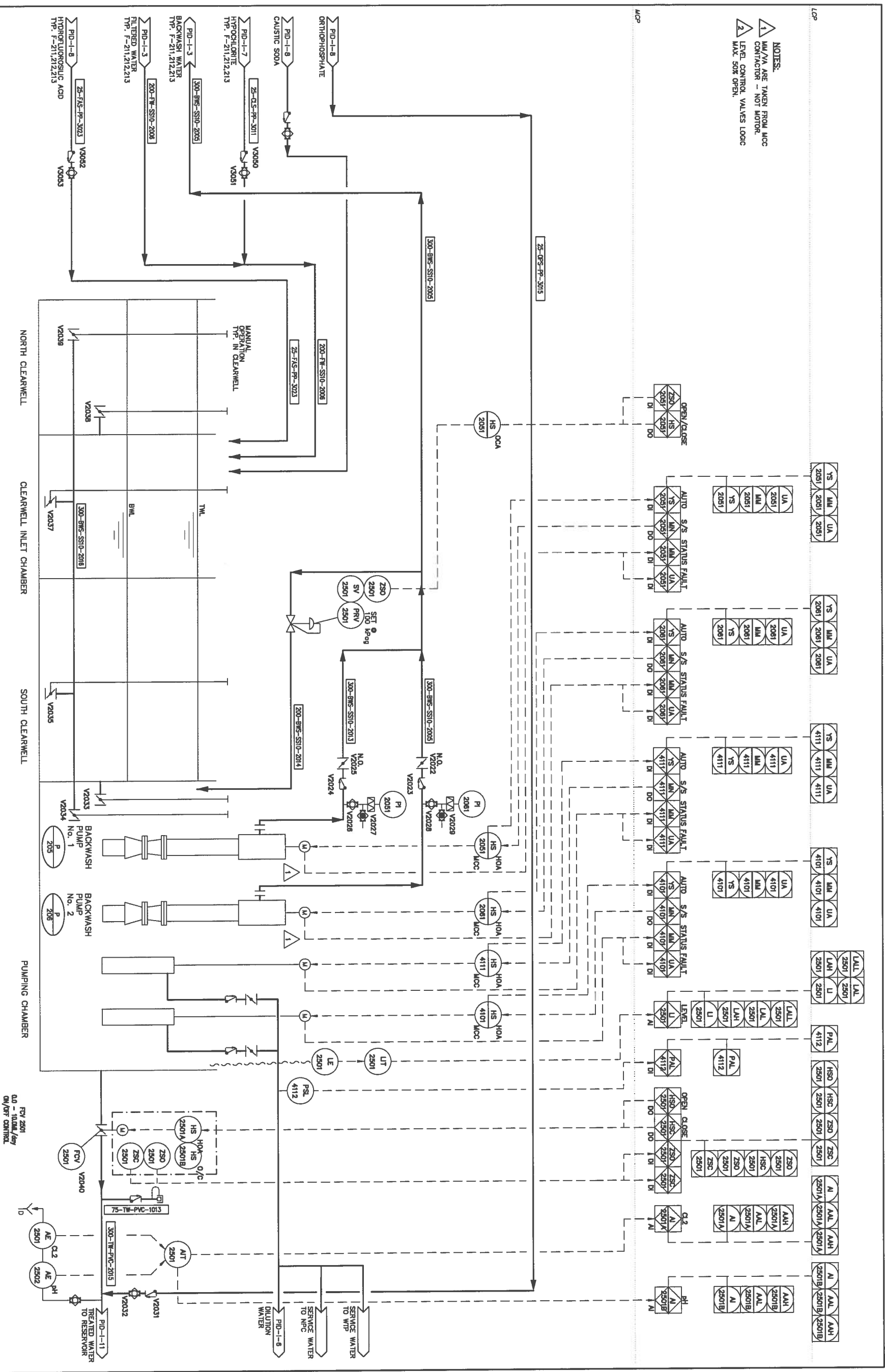
P & ID – FILTRATION

City of Iqaluit

IGALUIT WATER TREATMENT PLANT

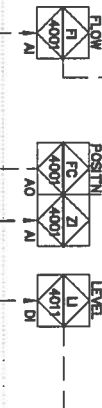
Earth Tech (Canada) Inc.	
DRAWN BY: CKW	SCALE:
CHECKED BY: CKW/JMH	
CADD SYSTEM AutoCAD	DWG NO.

SCALE:	DATE:	S#
MS. PLOTTED	FEBT. 02002003	
DWG NO.	REV.	CO
1-3	2	5

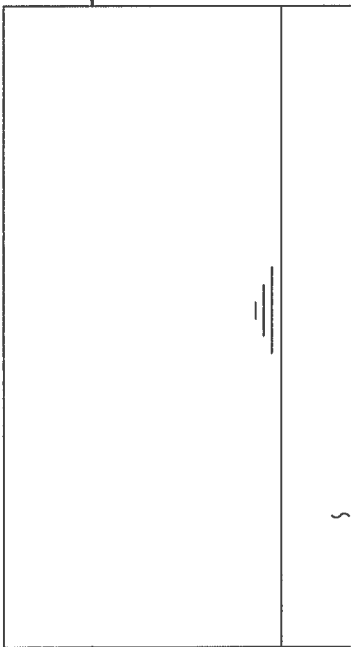




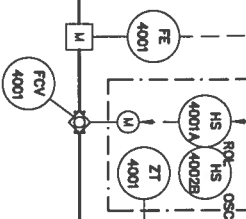
NOTES:
1. LINES ARE CONNECTED TO MAIN SEWAGE LINE C/W ORIFICE PLATE



PD-1-3
BACKWASH WASTE TO WASTE STORAGE TANK
TYP: FOR F-211,212,213

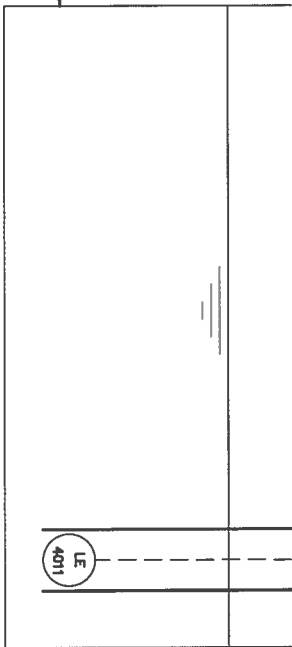


BACKWASH WASTE STORAGE TANK

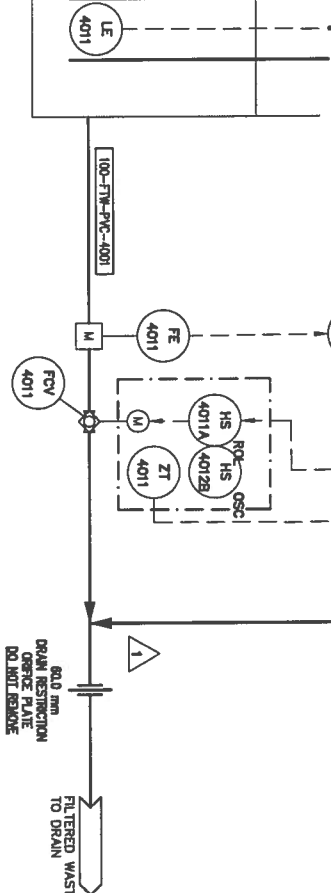


100-FTW-PVC-4000

PD-1-3
200-FTW-SS10-2007
FILTERED TO WASTE TO SURGE TANK



FILTER TO WASTE TANK (OLD SURGE TANK)



OLD 8mm ORANGE/RED LINE
DO NOT REMOVE
FILTERED WASTE TO DRAIN

FCV 4001
OD - 50 M /year
MODULATING CONTROL
Head Loss Across Valve
0.2M - 3.0m

FCV 4011
OD - 20 M /year
MODULATING CONTROL
Head Loss Across Valve
0.2M - 3.0m

		Company Permit		Engineer Seal	
2	RECORD DRAWING	19/07/04	LL		
1	ISSUED FOR CONSTRUCTION	22/04/03	CKW		
0	ISSUED FOR TENDER	19/02/03	CKW		
NO.	REVISION	DATE	INITIAL		

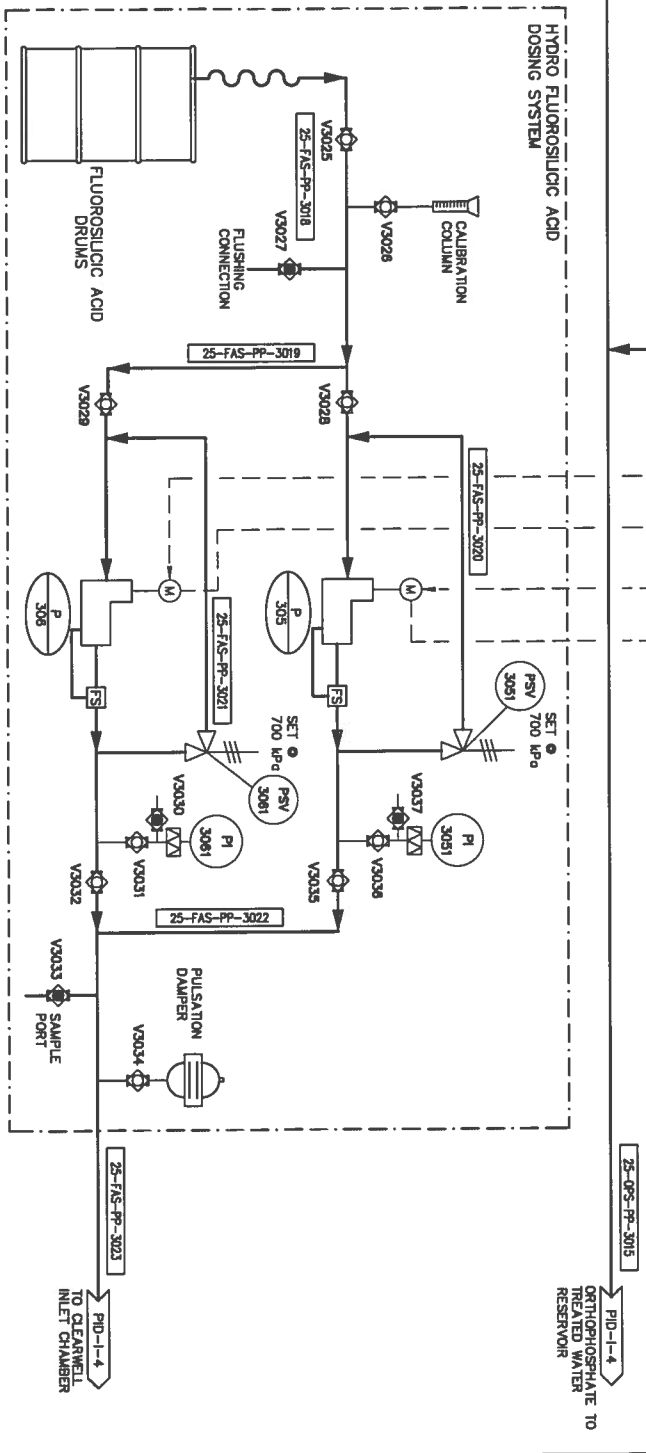
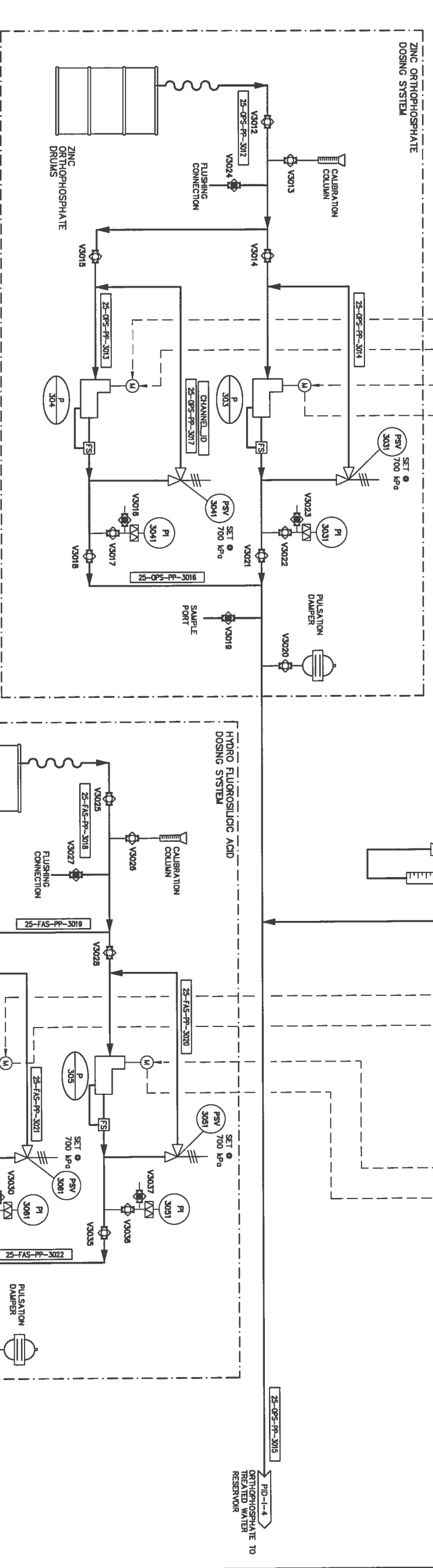
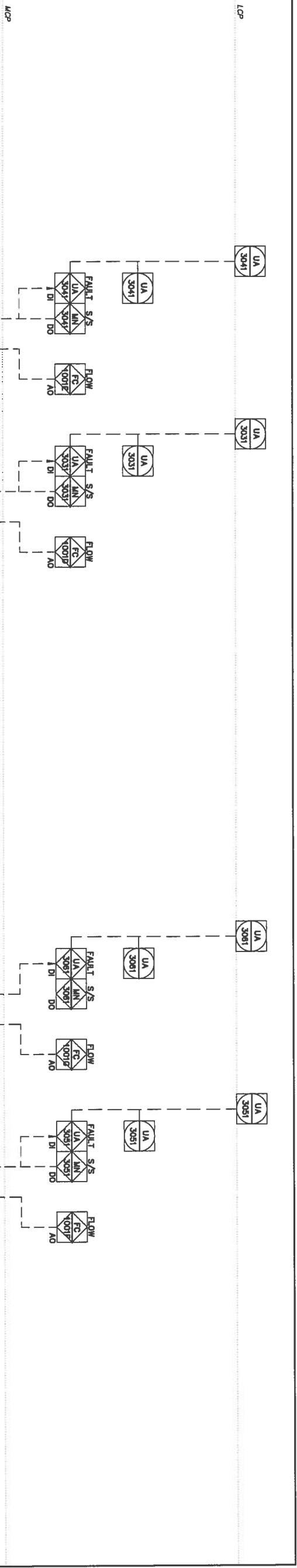
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PROCESS & INSTRUMENTATION	
P & ID – FLUORIDE & ORTHOPHOSPHATE SUPPLY	

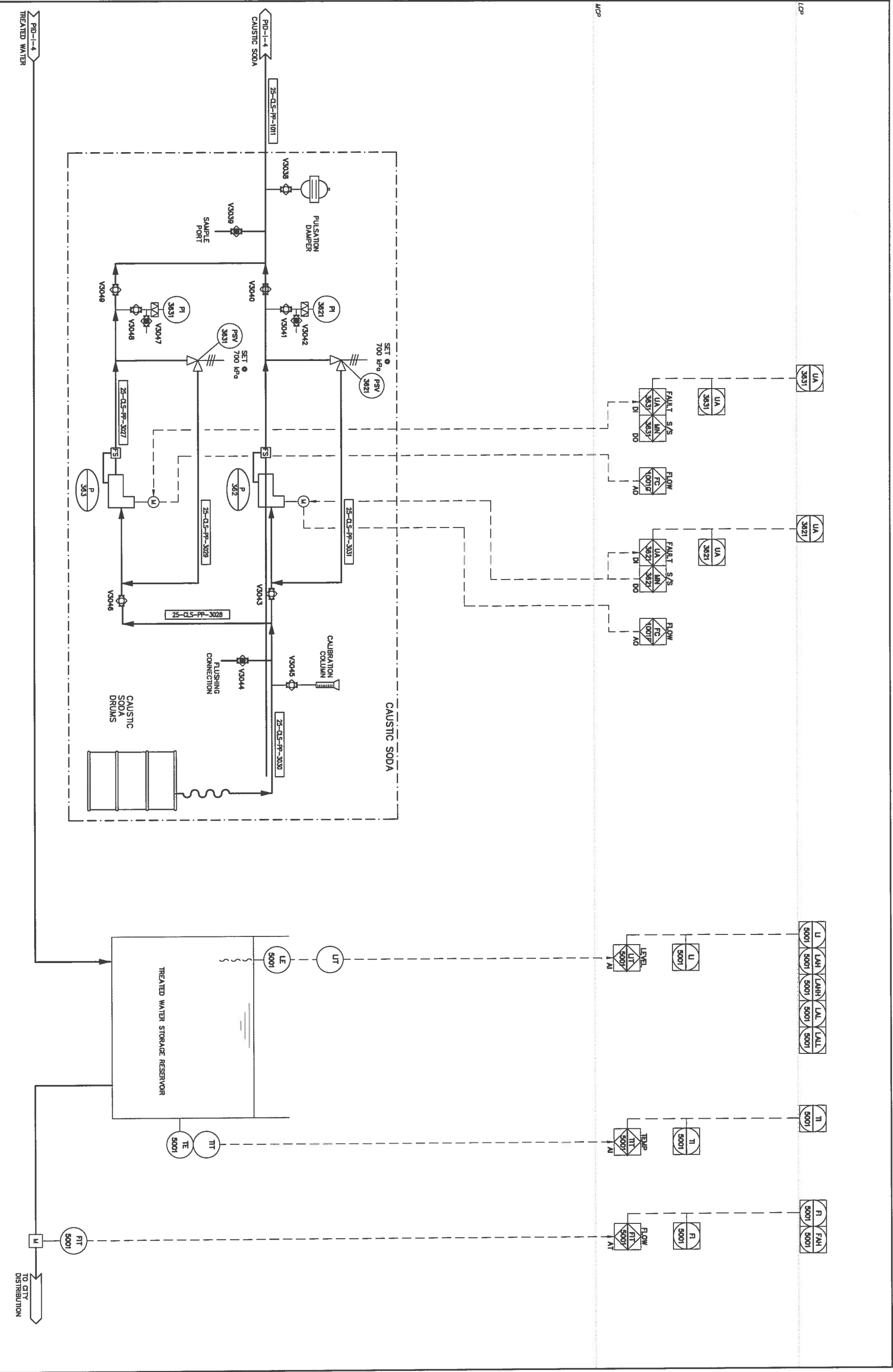
 CITY of IQALUIT, Nunavut	
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CITY OF IQALUIT	
IQALUIT WATER TREATMENT PLANT	

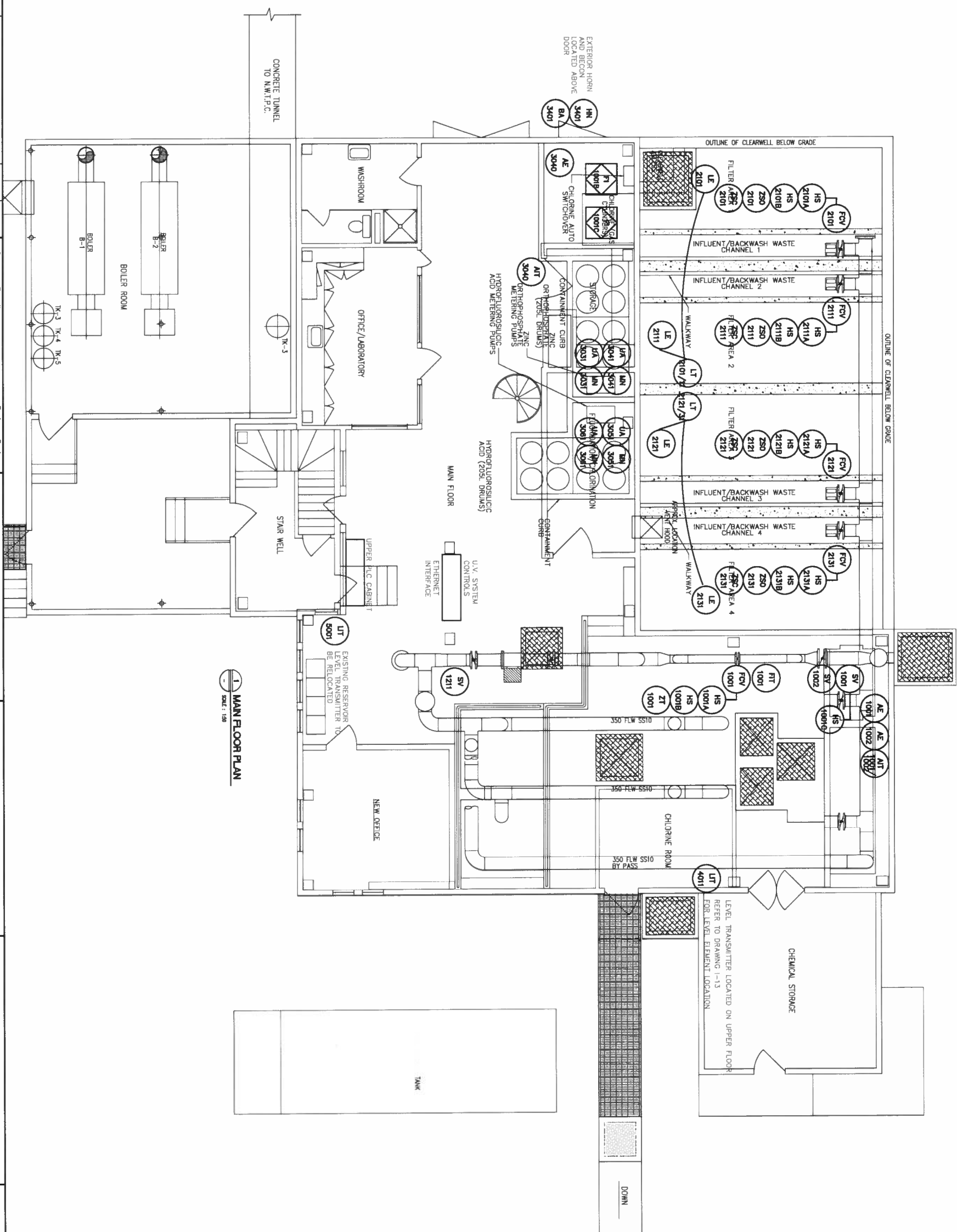
E A R T H T E C H			
			
Earth Tech (Canada) Inc.			
DRAWN BY: CKW	SCALE: NOT NOTED	DATE: FEBRUARY 2003	SHEET NO.
CHECKED BY: CKW/JMH			
CADD SYSTEM: AutoCAD	DWG NO: 1-5	REV: 2	CONTRACT: 55524



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Company Permit		Engineer Seal	
RECORD DRAWING		P & ID - TEMPORARY CHLORINATION PLANT	
INFORMATION CONTAINED IN THESE DRAWINGS IS AS SUPPLIED BY: SCHEDULE 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000		Earth Tech (Canada) Inc.	
DRAWN BY: KIM/JAH		SCALE: N.T.S.	
CHECKED BY: CKW/JAH		DATE: OCT. 2002	
CADD SYSTEM: AutoCAD		DWG NO.: 1-7	
REV: 2		SHEET NO.: 55524	



2	RECORD DRAWING	14/09/04	T/C
1	ISSUED FOR CONSTRUCTION	22/04/03	C/W
0	ISSUED FOR TENDER	19/02/03	C/W
NO.	REVISION	DATE	INITIAL

RECORD DRAWING

INSTRUMENTATION	FILTERS FLOOR	DEVICE	LOCATIONS
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CITY OF IQUALUIT
IQUALUIT WATER TREATMENT PLANT

EARTH TECH

DRAWN BY: TDC	SCALE:	DATE:	SHEET NO.
CHECKED BY: CMW	AS NOTED	OCT. 2002	
CADD SYSTEM: AutoCAD	DWG NO.	1-9	REV. 1 CONTRACT 55524

NO.	REVISION	DATE	INITIAL
1	ISSUED FOR CONSTRUCTION	22/04/03	CKW
0	ISSUED FOR TENDER	19/02/03	CKW

Company Permit

Engineer Seal

RECORD DRAWING

INFORMATION CONTAINED IN THESE DRAWINGS IS AS SUPPLIED BY THE CLIENT. THE ENGINEER'S RESPONSIBILITY IS TO DESIGN AND CHECK THE DRAWINGS FOR CONFORMANCE WITH THE SPECIFICATIONS AND STANDARDS OF THE RECORD DRAWING IS NOT GUARANTEED. INFORMATION SHOULD BE VERIFIED ON LOCATION BEFORE USE.

INSTRUMENTATION

CLEARWELL FLOOR

DEVICE

LOCATIONS

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CITY of IQALUIT,

Abas Nunavut

CITY OF IQALUIT

IQALUIT WATER TREATMENT PLANT

EARTH TECH

Earth Tech (Canada) Inc.

Drawn by: TDC

Scale: AS NOTED

Date: OCT. 2002

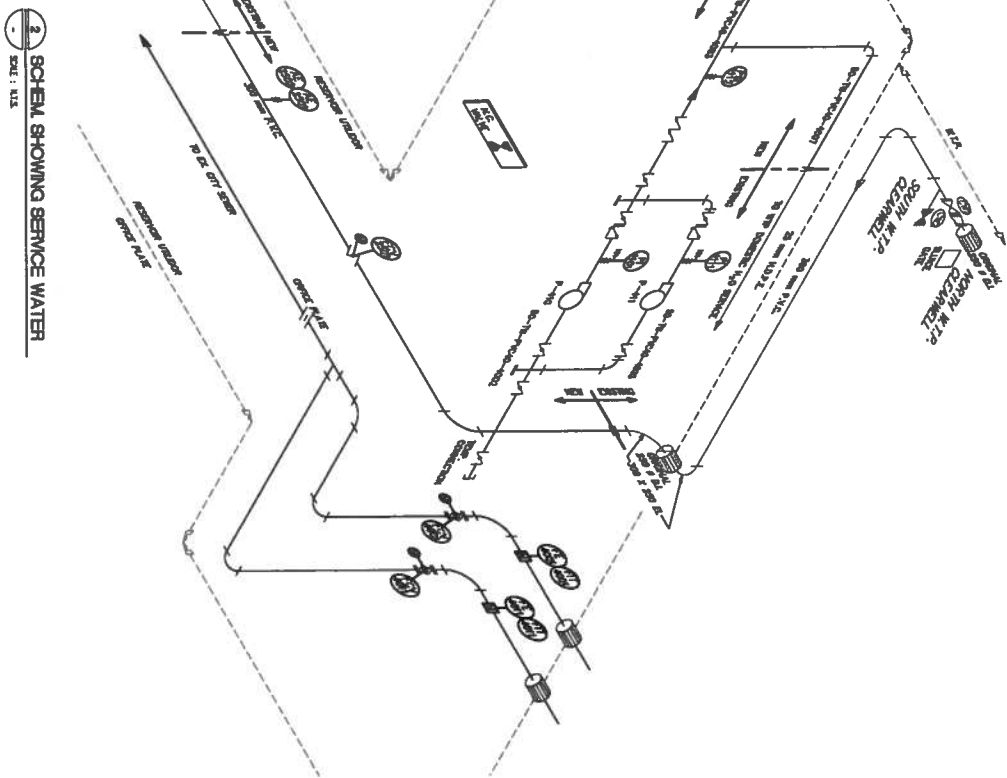
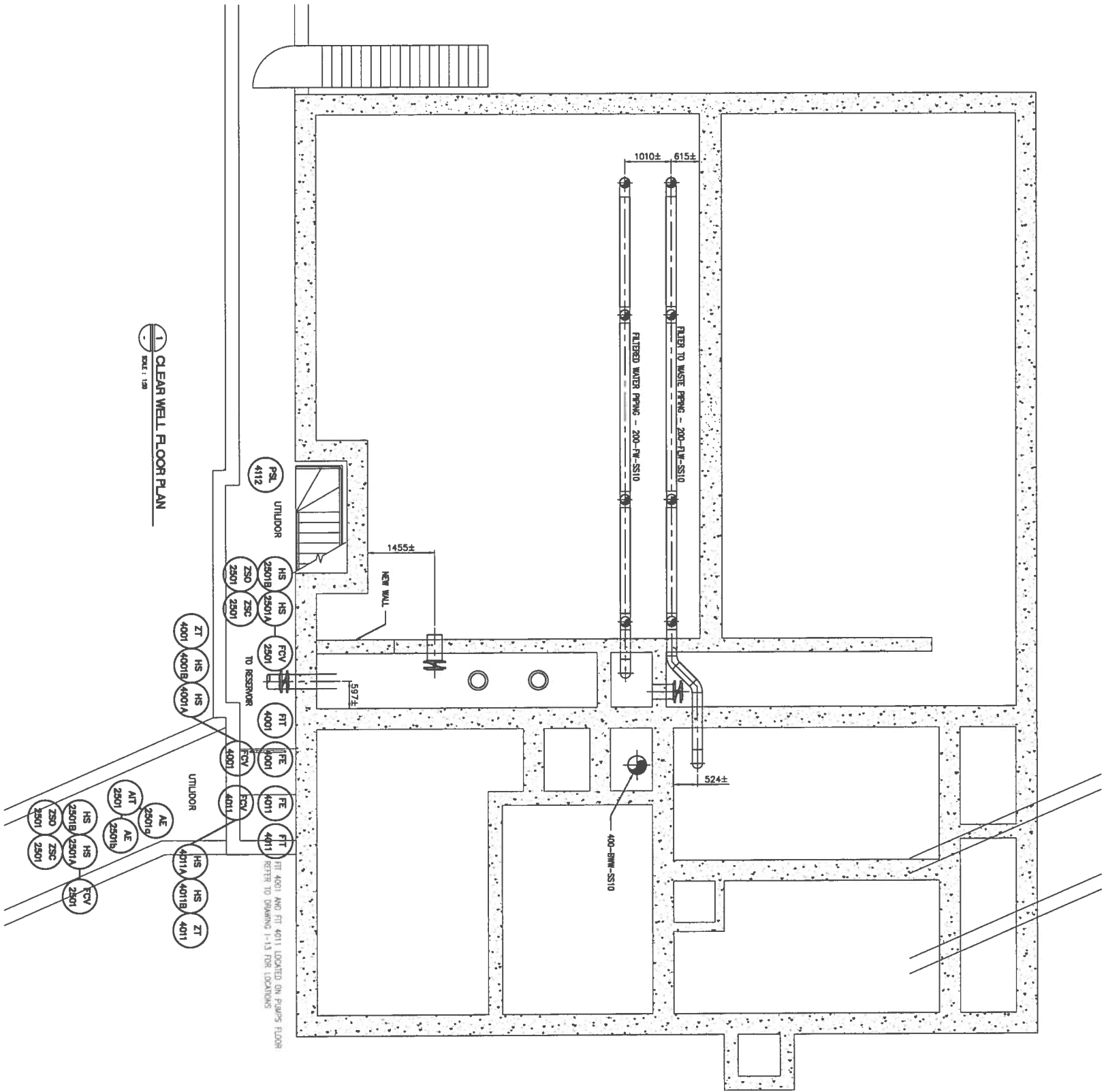
Sheet No. 55524

Checked by: CKW

Draw No. 1-1

Rev. 1

Contract 55524



		Company Permit		Engineer Seal	
2		RECORD DRAWING		23/04/04	
1		ISSUED FOR CONSTRUCTION		22/04/03	
0		ISSUED FOR TENDER		19/02/03	
NO.		REVISION		DATE INITIAL	

RECORD DRAWING

INFORMATION CONTAINED IN THESE DRAWINGS IS AS SUPPLIED BY SHERIDAN MECHANICAL CONTRACTING LTD. DATE: MAY 03, 2004

MECHANICAL		CITY OF IQALUIT		CITY OF IQALUIT WATER TREATMENT PLANT	
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Earth Tech (Canada) Inc.

Earth Tech (Canada) Inc.

SCALE: AS NOTED

DATE: FEB. 03, 2003

REV. 1

SHEET NO.

55524

MECHANICAL LEGEND

PLUMBING	
DIRECTION OF FLOW	→
SANITARY	SAN
ABOVE SLAB	SAN
BELOW SLAB	ST
STORM	ST
ABOVE SLAB	ST
BELOW SLAB	V
VENT	V
DOMESTIC COLD WATER	
DOMESTIC HOT WATER	
DOMESTIC HOT WATER RECIRC.	
LOW PRESSURE NATURAL GAS	G
MEDIUM PRESSURE NATURAL GAS	MG
OIL VENT	OV
HOSE BIBB	HB
CLEANOUT	CO
RUNNING TRAP	FD
FLOOR DRAIN	FD
FUNNEL FLOOR DRAIN	HD
HUB DRAIN	RD/AD
ROOF/AREA DRAIN	
RAIN WATER LEADER	
FUEL OIL FILL	
FUEL OIL SUPPLY	FO
RETURN	FOR
SPRINKLER LINE	SP
SPRINKLER HEAD	○
UPRIGHT	●
PENDANT	▲
SIDEWALL	◆
DRY	⊗
FLUSH	⊠
FIRE LINE	F
FIRE HOSE CABINET	FHC
FIRE EXTINGUISHER	FE
GLYCOL SUPPLY	GLYS
RETURN	GLYR

PIPE FITTINGS	
PIPE ANCHOR & GUIDES	
EXPANSION JOINT	
AIR VENT	MANUAL
AUTOMATIC	
AQUA-STAT	
FLOW SWITCH	
PRESSURE SWITCH	
THERMOMETER & WELL	
PRESSURE GAUGE & TAP	
FLOW METER	
PIPE RISE	
PIPE DROP	
PIPE TOP TAKE-OFF	
PIPE BOTTOM TAKE-OFF	
SIMPLE CONNECTION	
PIPE CAP	
PIPE CONTINUATION	
GATE VALVE	
GLOBE VALVE	
BALANCING VALVE	
CHECK VALVE	
PRESSURE REDUCING VALVE	
3-WAY CONTROL VALVE	
2-WAY CONTROL VALVE	
BALL VALVE	
GAS COCK	
SOLENOID VALVE	
STRAINER (IN-LINE)	
STRAINER (BLOW-OFF)	
BUCKET STRAINER	
UNION	
BUTTERFLY VALVE	
FLOAT & THERMOSTATIC TRAP	
BUCKET TRAP	
THERMODYNAMIC TRAP	
SUPERSEED ISOLATION VALVE	
SUPERSEED ZONE VALVE	
COMBINATION STRAINER/	
SUCTION GUIDE	
FLOTREX CHECK/SHUT-OFF VALVE	
FLOW CONTROL REGULATOR	
RELIEF VALVE	
O.S. & Y VALVE	
NEEDLE VALVE	
BACKWATER VALVE	
VACUUM BREAKER	
ECCENTRIC REDUCER	
DOUBLE CHECK BACKFLOW PREVENTOR	
REDUCED PRESSURE BFP	
LOCKSHIELD VALVE	
SUCTION DIFFUSER	
CIRCUIT BALANCING VALVE	
ALARM CHECK VALVE	
ECCENTRIC PLUG VALVE (BALANCING VALVE)	
PUMP (SCHEMATIC)	

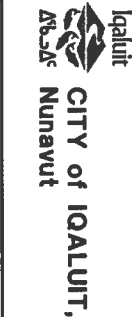
AIR DISTRIBUTION	
SUPPLY AIR (S/A)	
RETURN AIR (R/A)	
EXHAUST AIR (E/A)	
OUTSIDE AIR (O/A)	
BALANCING DAMPER	
BACKRAFT DAMPER	
FIRE DAMPER	
SMOKE DAMPER	
FIRE/SMOKE DAMPER	
MOTORIZED DAMPER	
TURNING VANES	
ACOUSTIC LINED DUCTWORK	
EXTERNAL INSULATION	
FLEXIBLE DUCTWORK	
THERMOSTAT	
HUMIDISTAT	
CARBON DIOXIDE DETECTOR	
DIFFERENTIAL PRESSURE SENSOR	
FREEZE STAT	
DOOR UNDERCUT	
DOOR GRILLE c/w SIZE	
DUCT DIMENSIONING	
ROUND DUCT	
RECTANGULAR DUCT	
SINGLE LINE DUCT REPRESENTATION	
DUCTWORK TO BE REMOVED	
AIR OUTLET TAG	
SUPPLY	S
RETURN	R
EXHAUST	E
TRANSFER	T
LOUVER	L
TYPE	SIZE (mm)
FLOW (L/s)	
RADIATION / PANEL TAG	
TYPE	LENGTH (mm)
OUTPUT (WATTS)	
REVISION TAG	
REVISION NUMBER	

NOTE: WHERE '300' IS THE VISIBLE DIMENSION

NO.	REVISION	DATE	INITIAL
0	ISSUED FOR TENDER	19/02/03	DBF
1	ISSUED FOR CONSTRUCTION	22/04/03	DBF
2	RECORD DRAWING	03/04/04	IV

RECORD DRAWING
INFORMATION CONTAINED IN THESE DRAWINGS
IS AS SUPPLIED BY SHERIDAN MECHANICAL
CONTRACTING LTD.
DATE: MAY 03, 2004

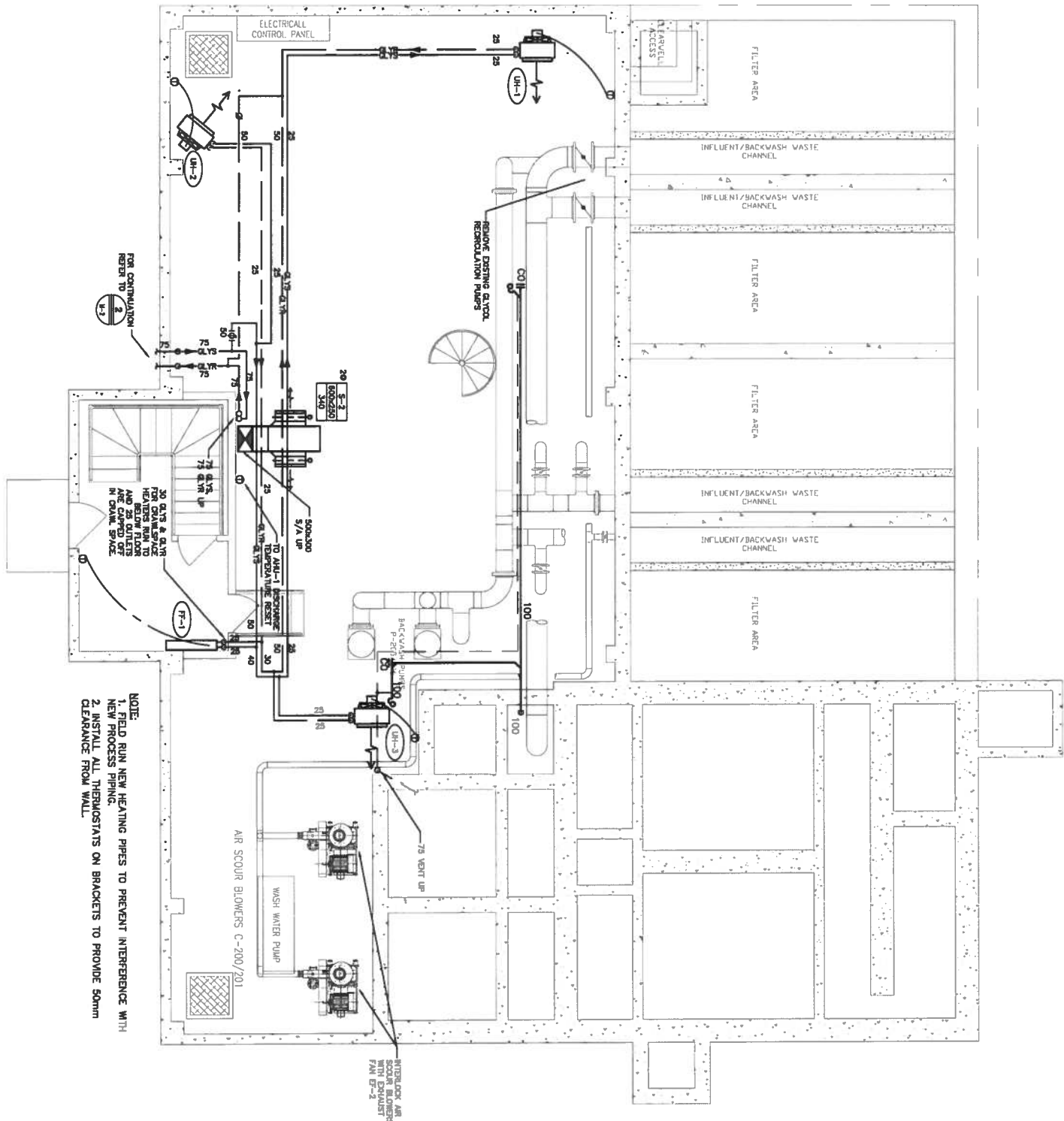
MECHANICAL
LOWER FLOOR
MECHANICAL LAYOUT



CITY OF IQALUIT
IQALUIT WATER TREATMENT PLANT

Earth Tech (Canada) Inc.			
DRAWN BY: E.L.	SCALE: AS NOTED	DATE: FEB. 03, 2003	SHEET NO.
CHECKED BY: DBF			
CADD SYSTEM: AUTOCAD	DWG NO. M-3	REV. 1	CONTRACT 55524

1 LOWER FLOOR - MECHANICAL PLAN
SCALE: 1/8"

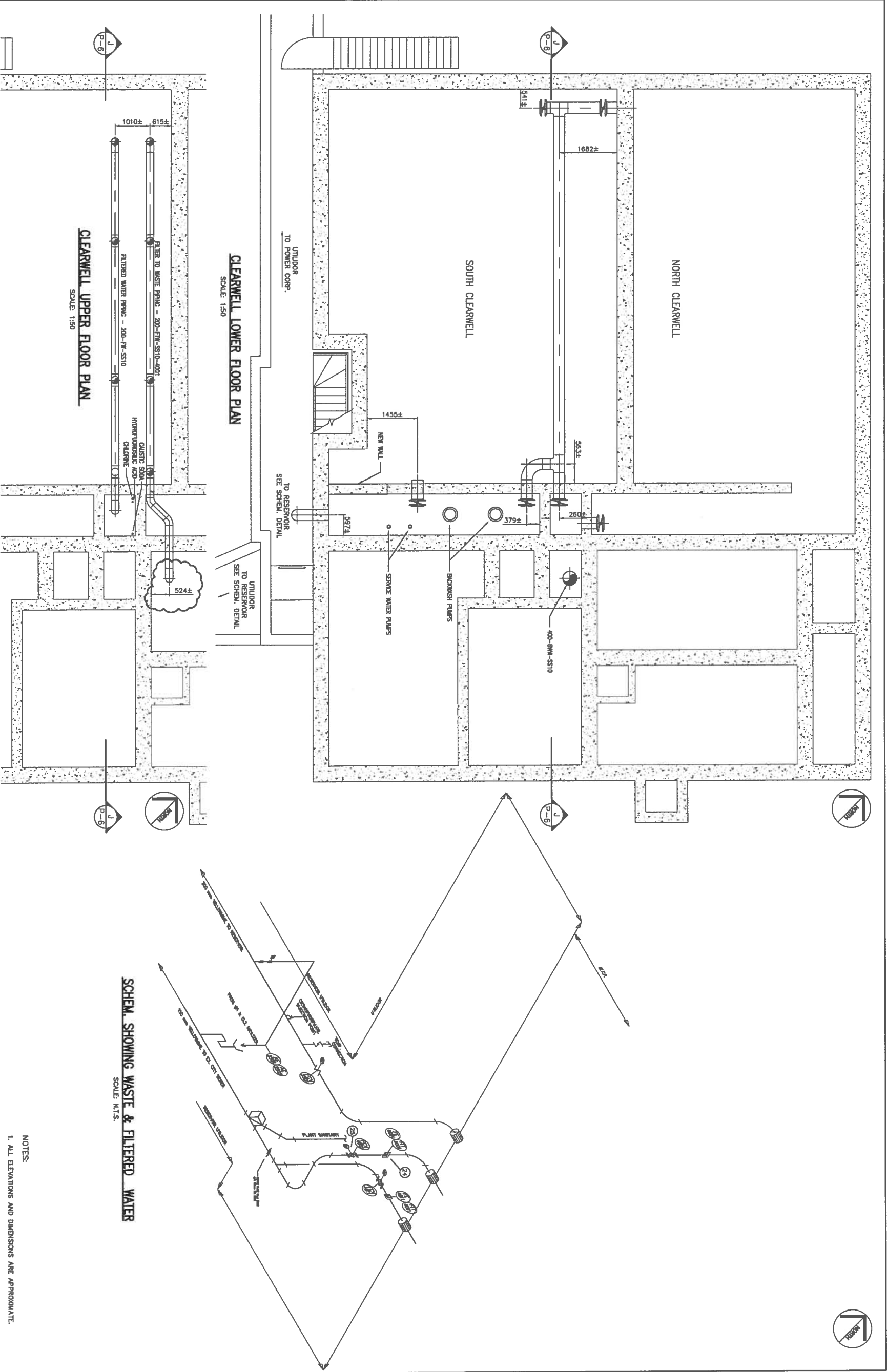




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DWG NO.	P-1	REV. 1	CONTRACT 55524	

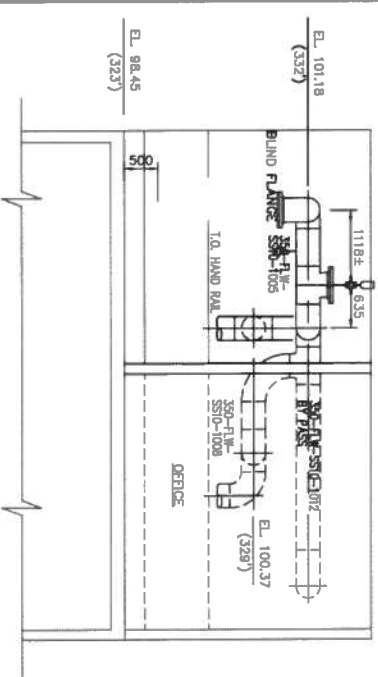
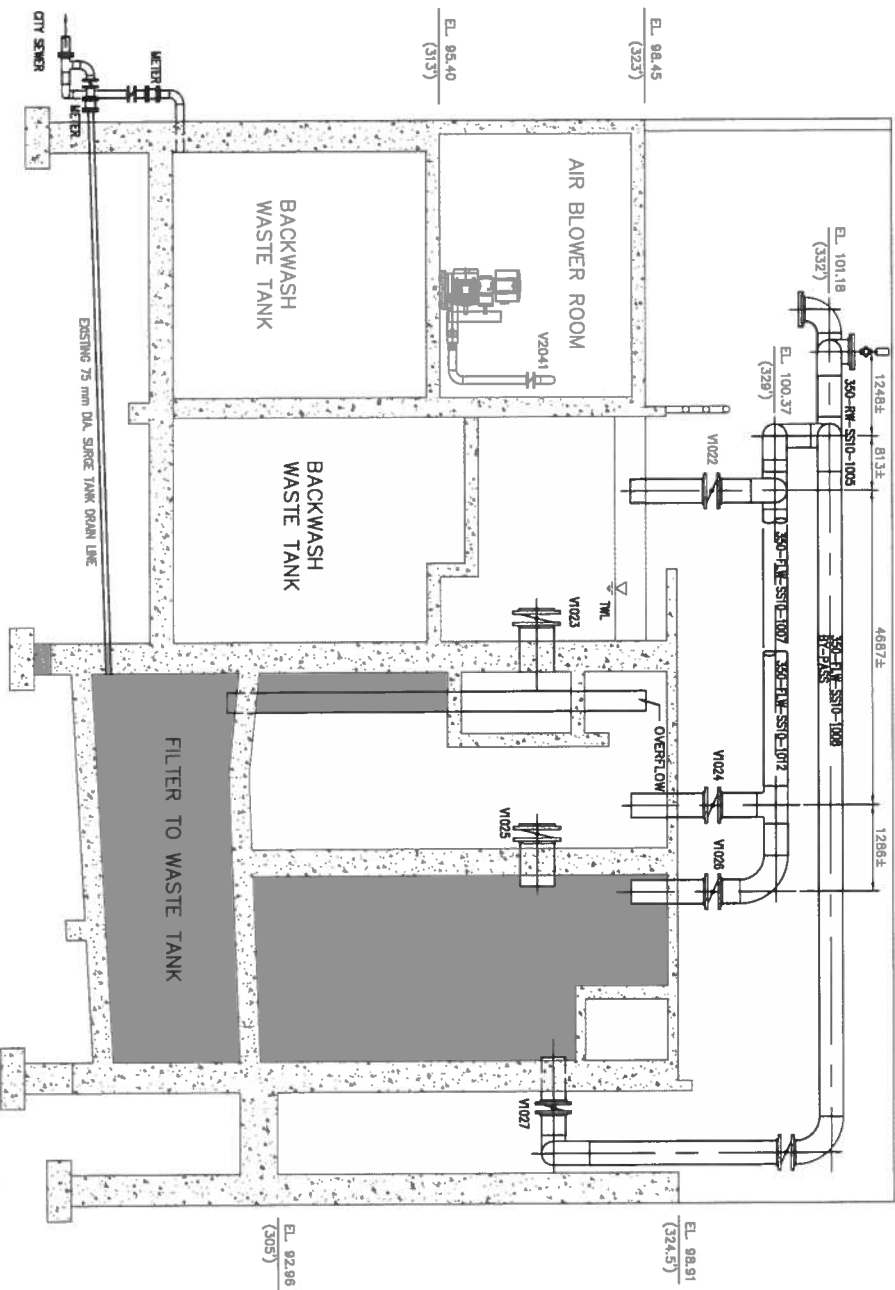
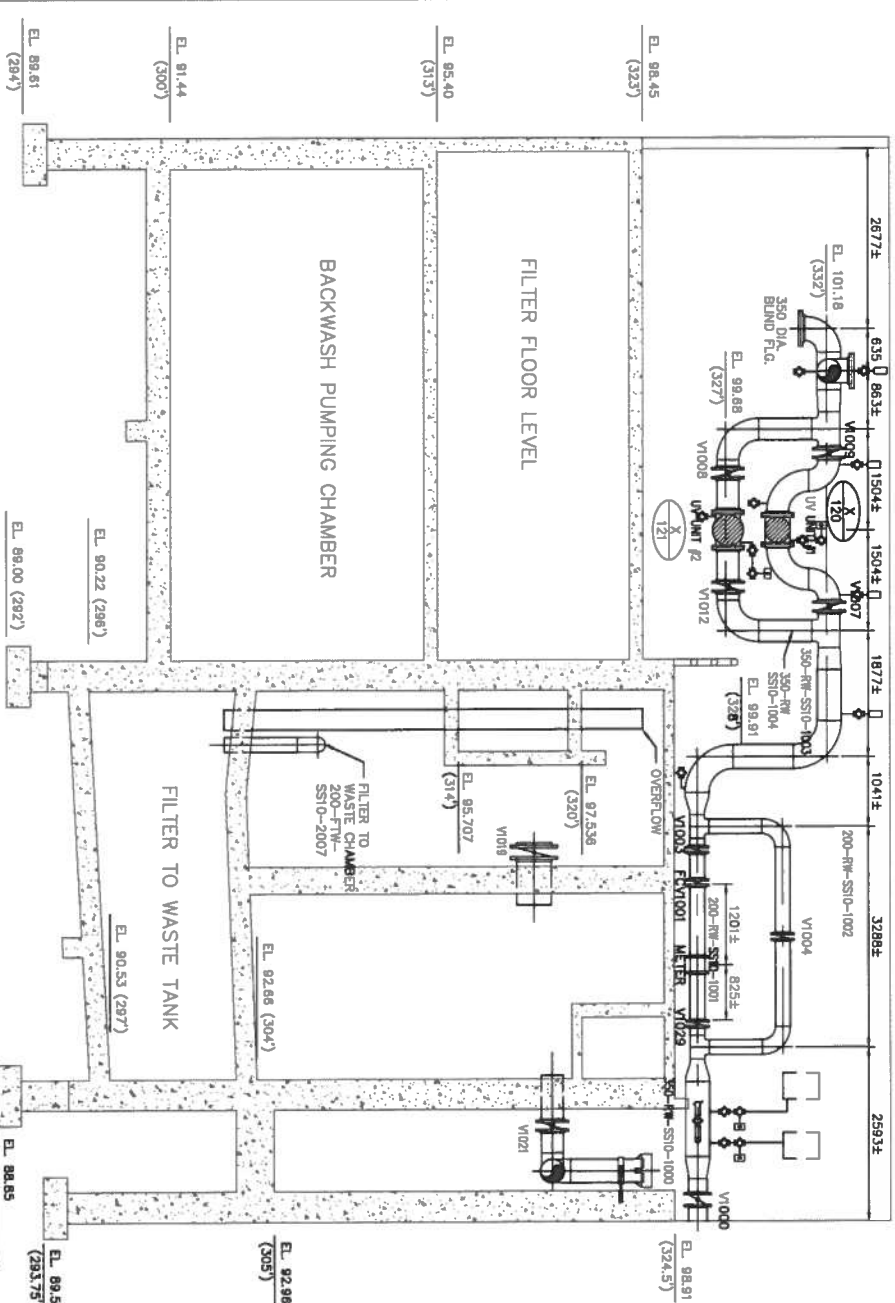
NOTES:

1. ALL ELEVATIONS AND DIMENSIONS ARE APPROXIMATE



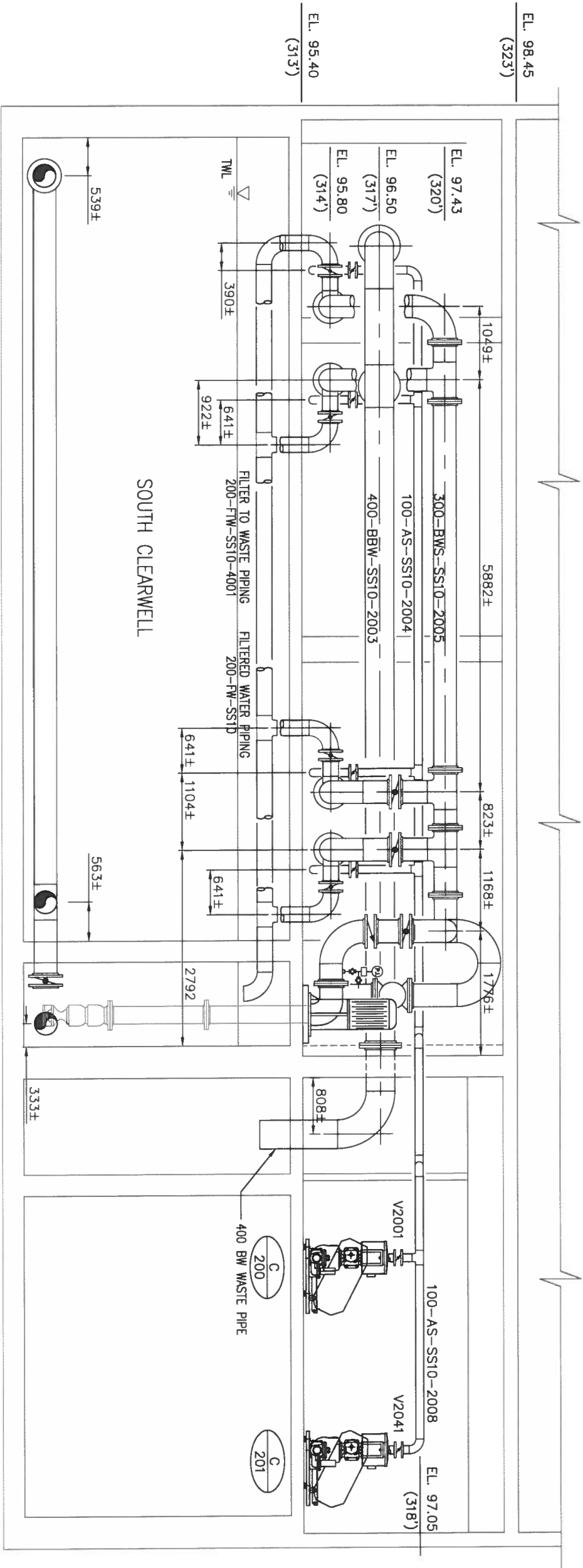
NOTES:
1. ALL ELEVATIONS AND DIMENSIONS ARE APPROXIMATE.

Company Permit		Engineer Seal		PROCESS		CITY OF IQUALUIT		EARTH T E C H N I C S	
RECORD DRAWING		RECORD DRAWING		CLEARWELL LEVEL		IQUALUIT WATER TREATMENT PLANT		Earth Tech (Canada) Inc.	
2		23/04/04		23/04/04		23/04/04		DRAWN BY: CKW/KWM	
1		22/04/03		22/04/03		22/04/03		CHECKED BY: CKW	
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Company Permit		Engineer Seal		PROCESS		CITY OF IQUALUIT		EARTH TIGHT	
RECORD DRAWING		RECORD DRAWING		UPPER FLOOR		IQUALUIT WATER TREATMENT PLANT		Earth Tech (Canada) Inc.	
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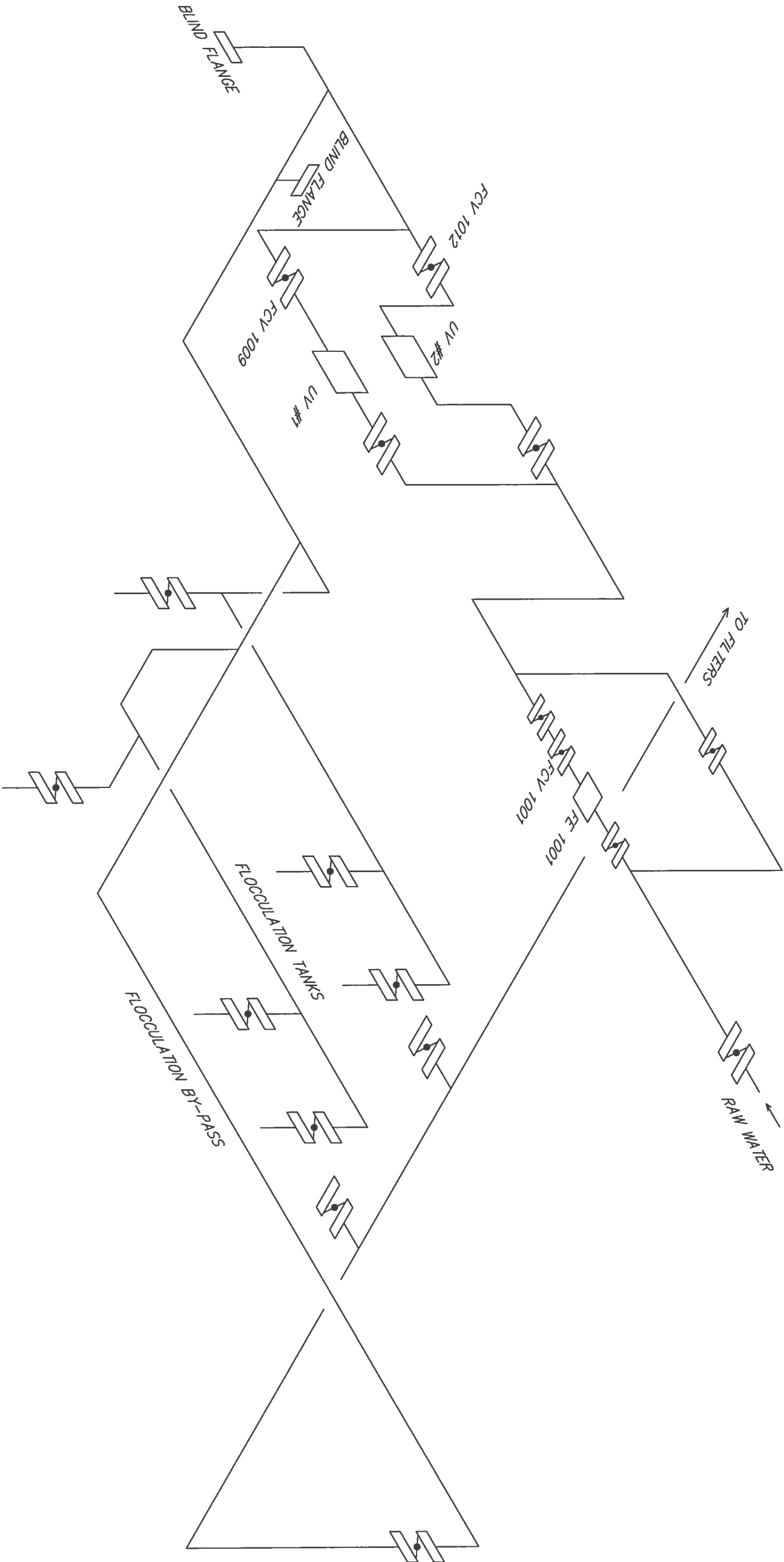
NOTES:
1. ALL ELEVATIONS AND DIMENSIONS ARE APPROXIMATE.



SECTION
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P-2
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NOTES:
1. ALL ELEVATIONS AND DIMENSIONS ARE APPROXIMATE.

Company Permit		Engineer Seal		PROCESS		CITY OF IQUALUIT		EARTH T R O N	
RECORD DRAWING		RECORD DRAWING		FILTER FLOOR		IQUALUIT WATER TREATMENT PLANT		Earth Tech (Canada) Inc.	
2		23/04/04		DKB				DRAWN BY: CRW/KMW	
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								DATE: OCT. 2002	
								REV.	
								SHEET NO.	
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								55524	



NOTES:
1. ALL ELEVATIONS AND DIMENSIONS ARE APPROXIMATE.

		Company Permit		Engineer Seal	
2	RECORD DRAWING	23/04/04	DKB		
1	ISSUED FOR CONSTRUCTION	22/04/03	CKW		
0	ISSUED FOR TENDER	19/02/03	CKW		
NO.	REVISION	DATE	INITIAL		
RECORD DRAWING PROVISIONAL DRAWING IS AS SHOWN BY THE DRAWINGS SCHEMEL MECHANICAL CONTRACTING LTD. THIS RECORD DRAWING IS NOT GUARANTEED. REFORMATION SHOULD BE TENDER AT THE ACTUAL LOCATION BEFORE USE.					
PROCESS					
UPPER FLOOR PIPING SCHEMATIC					
 CITY OF IQALUIT, Nunavut					
CITY OF IQALUIT					
IQALUIT WATER TREATMENT PLANT					
Earth Tech (Canada) Inc.					
DRAWN BY: DKB		SCALE: N.T.S.		DATE: APR. 29 2004	
CHECKED BY: DAT				SHEET NO.	
CADD SYSTEM AutoCAD		DWG NO.		REV. 1	
		P-7		CONTRACT 55524	

RECORD DRAWING
 INFORMATION CONTAINED IN THESE DRAWINGS
 IS AS SUPPLIED BY:
 HENREY NORTH CONSTRUCTION &
 DEVELOPMENT LTD.
 THE COMPLETENESS AND ACCURACY OF THIS
 RECORD DRAWING IS BEING GUARANTEED.
 INFORMATION IS BEING REPORTED AT THE
 ACTUAL LOCATION BEFORE USE.

• NOTE: LISTED STANDARD PROCTOR DENSITIES ARE REQUIRED FOR BOTH THE SUB-GRADE AND THE FILL MATERIAL TO BE PLACED OVER THE SUB-GRADE.

1. ALL REINFORCING BARS SHALL CONFORM TO CSA G40.21-1462, GRADE 400, INCLUDING REINFORCING BARS TO CONFORM TO CSA STANDARD WELDED-CLIP DETAILING, YIELDING OF REINFORCING BARS IN REINFORCED CONCRETE CONSTRUCTION, MINOR CONSULTANT SELECTION OF REINFORCING IS REQUIRED AND RESERVE WORKSHOP PERSH TO PROCEEDANCE.
2. REINFORCING WORK SHALL BE IN ACCORDANCE WITH CAN/CSA-431-1, LATEST EDITION.
3. REINFORCING STEEL SHALL BE DETAILD IN ACCORDANCE WITH THE LATEST EDITION OF THE CANADIAN STANDARD FOR THE REINFORCING STEEL INSTITUTE OF CANADA DEVELOPED UNANIL.
4. MECHANICAL COUPLERS ARE REQUIRED IF REQUIRED AND WHERE SPECIFIED, SLEIGHT PROPOSED COUPLER TYPE TO CONSULTANT FOR REVIEW AND APPROVAL. P TO USE COUPLERS SHALL BE CAPABLE OF DEVELOPING 125% OF THE SPECIFIED YIELD CAPACITY OF THE BARS BEING COUPLED.
5. FOR HOOKS AND FOR HOOKS WHERE SHOWN SHALL BE DETAILD AS STANDARD HOOKS UNLESS NOTED OTHERWISE.
6. WHERE REINFORCED LAPPS ARE REQUIRED IN ADJACENT BARS, STAGGER LAPS AND MINIMUM 300 mm TO BE MAINTAINED.
7. REINFORCED LAPS SHALL BE DETAILD AS STANDARD LAPS, STAGGER LAPS SHALL BE CUT AND SUPERIMPOSED WITH CLAS C LAP BARS OF SAME SIZE ADJACENT TO THE CUT BAR AS INDICATED IN THE FOLLOWING DETAIL :

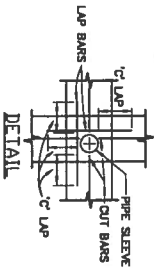
8. REINFORCED LAPS SHALL BE DETAILD AS STANDARD LAPS, STAGGER LAPS SHALL BE CUT AND SUPERIMPOSED WITH CLAS C LAP BARS OF SAME SIZE ADJACENT TO THE CUT BAR AS INDICATED IN THE FOLLOWING DETAIL :
9. REINFORCED LAPS SHALL BE DETAILD AS STANDARD LAPS, STAGGER LAPS SHALL BE CUT AND SUPERIMPOSED WITH CLAS C LAP BARS OF SAME SIZE ADJACENT TO THE CUT BAR AS INDICATED IN THE FOLLOWING DETAIL :
10. REINFORCED LAPS SHALL BE DETAILD AS STANDARD LAPS, STAGGER LAPS SHALL BE CUT AND SUPERIMPOSED WITH CLAS C LAP BARS OF SAME SIZE ADJACENT TO THE CUT BAR AS INDICATED IN THE FOLLOWING DETAIL :
11. REINFORCED LAPS SHALL BE DETAILD AS STANDARD LAPS, STAGGER LAPS SHALL BE CUT AND SUPERIMPOSED WITH CLAS C LAP BARS OF SAME SIZE ADJACENT TO THE CUT BAR AS INDICATED IN THE FOLLOWING DETAIL :
12. REINFORCED LAPS SHALL BE DETAILD AS STANDARD LAPS, STAGGER LAPS SHALL BE CUT AND SUPERIMPOSED WITH CLAS C LAP BARS OF SAME SIZE ADJACENT TO THE CUT BAR AS INDICATED IN THE FOLLOWING DETAIL :
13. REINFORCED LAPS SHALL BE DETAILD AS STANDARD LAPS, STAGGER LAPS SHALL BE CUT AND SUPERIMPOSED WITH CLAS C LAP BARS OF SAME SIZE ADJACENT TO THE CUT BAR AS INDICATED IN THE FOLLOWING DETAIL :
14. REINFORCED LAPS SHALL BE DETAILD AS STANDARD LAPS, STAGGER LAPS SHALL BE CUT AND SUPERIMPOSED WITH CLAS C LAP BARS OF SAME SIZE ADJACENT TO THE CUT BAR AS INDICATED IN THE FOLLOWING DETAIL :

CAST-IN-PLACE CONCRETE NOTES

1. CONCRETE SHALL CONFORM TO CSA CAN-1231-(LATEST EDITION), UNLESS NOTED OTHERWISE.
2. CONCRETE SHALL BE NORMAL WEIGHT AND MEET THE FOLLOWING REQUIREMENTS, UNLESS NOTED OTHERWISE:
- | CONCRETE CLASS | MINIMUM COMPRESSIVE STRENGTH @ 28 DAYS (MPa) | MAXIMUM WATER/CEMENTING MATERIALS RATIO | MINIMUM CEMENT CONTENT (kg) | NOMINAL SIZE OF COARSE AGGREGATE (mm) | AIR CONTENT (%) | SUMP 1 SLUMP (mm) |
|----------------|--|---|-----------------------------|---------------------------------------|-----------------|-------------------|
| ALL | 30 | 0.43 | 280 | 20 | 5-7 | 70-50 |
1. SLUMP PRIOR TO THE ADDITION OF ANY SUPERPLASTICIZER.
3. TYPE 50 CEMENT SHALL BE USED FOR ALL CONCRETE.
- CALCULATED CHARGE IN ANY FORM IS NOT PERMITTED IN ANY CONCRETE.

REINFORCING STEEL NOTES

1. ALL REINFORCING BARS SHALL CONFORM TO CSA G40.21-M92, GRADE 400. WEAVING OF REINFORCING BARS TO CONFORM TO CSA STANDARD WIRE REINFORCING (LATEST EDITION), WEAVING OF REINFORCING BARS IN REINFORCED CONCRETE SHALL BE APPROVED BY THE SUPERVISOR. THE WEAVING OF REINFORCING IS REQUIRED AND RECEIVE APPROVAL PRIOR TO PROCEEDING.
2. REINFORCING WORK SHALL BE IN ACCORDANCE WITH CAN/CSA-S-43.1- LATEST EDITION.
3. REINFORCING STEEL SHALL BE DETAILD IN ACCORDANCE WITH THE LATEST EDITION OF THE CANADIAN STANDARD FOR THE REINFORCING STEEL INSTITUTE OF CANADA DESIGNING MANUAL.
4. MECHANICAL COUPLES ARE PERMITTED IF REQUIRED AND WHERE SPECIFIED. THE PROPOSED COUPLED TIE TO BE USED MUST FOR REVIEW AND APPROVAL BY THE SUPERVISOR. THE COUPLED TIE SHALL BE OF THE FOLLOWING TYPE: TIED CAPACITY OF THE BARS BEING COUPLED.
5. BY JOINS AND JAP JOINS WHERE SHOWN SHALL BE DETAILD AS STANDARD HOOK UNLESS NOTED OTHERWISE.
6. WHERE SHORING/SCAFFOLD LAYS ARE REQUIRED IN ADVANCEMENT BARS, STAGGER LAYS MINIMUM 1200 UNLESS NOTED OTHERWISE.
7. REINFORCEMENT THAT IS IN CONFLICT WITH PRE-EXISTING LOCATIONS, OPENINGS, ETC. SHALL BE CUT AND SUPERIMPOSED WITH CLAS'S OF LAP BARS OF SAME SIZE. ADVISORY TO THE CUT BAR AS INDICATED IN THE FOLLOWING DETAIL :



SITE CAST-IN-PLACE REINFORCED CONCRETE WORK

1. REINFORCED CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF CM/CSA-A23.1-LATEST EDITION, CM/CSA-A23.2-LATEST EDITION, CM/CSA-A23.3-LATEST EDITION, THE CONTRACTOR SHALL HAVE COPIES OF THESE STANDARDS ON SITE AT ALL TIMES FOR REFERENCE.
2. CONCRETE COVER TO REINFORCING STEEL SHALL CONFORM TO THE MOST STRINGENT REQUIREMENT LISTED BELOW, UNLESS NOTED OTHERWISE:

- CONCRETE CAST AGAINST EARTH OR ROCK
- CONCRETE CAST IN FORMS BUT EXPOSED TO
EARTH, WEATHER, OR CONTAINED WATER
- CONCRETE NOT EXPOSED TO WEATHER OR NOT
IN CONTACT WITH GROUND OR CONTAINED WATER
- WALLS
SLABS
BEAMS - TO STRUCTURE
COLUMNS - TO FILL
- 40 mm
40 mm
40 mm
40 mm
- UNLESS NOTED OTHERWISE, REINFORCING BAR LAYS SHALL BE CLASS C TENSION
SPRINGS
- DOWNES AND ANCHOR BOLTS SHALL BE SECURED IN POSITION BY MEANS OF
TEMPERATURES BEFORE CONCRETE IS PLACED.
- REINFORCING STEEL IN SLABS AND BEAMS SHALL BE ADEQUATELY SUPPORTED TO
ENSURE THAT IT REMAINS IN POSITION DURING PLACEMENT.
- REINFORCING STEEL SHALL NOT BE LIFTED INTO POSITION DURING CASTING.
- CONTRACTOR SHALL SUBMIT TO THE CONSULTANT FOR APPROVAL, WELL IN ADVANCE
OF CONCRETE PLACEMENT DATE, THE LOCATIONS AND DETAILS OF ALL
CONCRETE JOINTS.
- CONTRACTOR SHALL SUBMIT TO THE CONSULTANT FOR APPROVAL, WELL IN ADVANCE
OF CONCRETE PLACEMENT DATE, THE LOCATIONS OF ALL STAIRS AND OPENINGS
NOT SHOWN ON THE DRAWINGS. REVEAL ALL DRAWINGS FOR DETAILS OF PARTITIONS,
STAIRS, ETC., WHICH ARE REQUIRED TO BE CAST INTO CONCRETE ELEMENTS.
- CONTRACTOR SHALL PROVIDE STRUCTURAL DETAILS AS REQUIRED FOR STAIRS
AND OPENINGS.

6. PROVIDE RECESSES IN THE TOP OF FOUNDATION WALLS AND GRADE DOOR OPENINGS, TO ALLOW SLAB-OR-BRIDGE TO CONTINUE OVER.
7. REVEAL ALL CORNINGS, FLOOR RECESSES AND SLOPE REQUIREMENTS FOR CORNERS OVER.
8. REVEAL AND DESCRIBE FOR PERSON AND WORK.
9. FOUNDED ON AIN CUT CONTROL, SLAB-OR-BRIDGE CONSTRUCTION TO BE REVEALED FOR PERSON AND WORK.
10. REVEAL ALL CORNINGS, FLOOR RECESSES AND SLOPE REQUIREMENTS FOR CORNERS OVER.
11. REVEAL ALL CORNINGS, FLOOR RECESSES AND SLOPE REQUIREMENTS FOR CORNERS OVER.
12. REVEAL ALL CORNINGS, FLOOR RECESSES AND SLOPE REQUIREMENTS FOR CORNERS OVER.
13. REVEAL ALL CORNINGS, FLOOR RECESSES AND SLOPE REQUIREMENTS FOR CORNERS OVER.
14. REVEAL ALL CORNINGS, FLOOR RECESSES AND SLOPE REQUIREMENTS FOR CORNERS OVER.
15. REVEAL ALL CORNINGS, FLOOR RECESSES AND SLOPE REQUIREMENTS FOR CORNERS OVER.

STRUCTURAL STEEL NOTES

1. ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH CSA C454-S16-(LATEST EDITION) AND THE CISC CODE OF STANDARD PRACTICE FOR BULKHEADS (LATEST EDITION) UNLESS NOTED OTHERWISE.
2. MATERIAL REQUIREMENTS
 - A) STRUCTURAL SHAPES AND PLATE (EXCLUDING HSB) IN ACCORDANCE WITH CAN/CSA C454-S16-(LATEST EDITION) AND CAN/CSA G40.21-(LATEST EDITION)
 - B) HSS SECTIONS IN ACCORDANCE WITH CAN/CSA G40.20-(LATEST EDITION) AND CAN/CSA G40.21-(LATEST EDITION), 500M
 - C) ROUND PIPE SECTIONS IN ACCORDANCE WITH ASTM STANDARD A53, MIN. YIELD STRENGTH 40K MPa
 - D) ANCHOR BOLTS: THERMEK ROD; GRADE 300M
 - E) ALL OTHER BOLTS IN ACCORDANCE WITH ASTM A325 OR A328M
 - F) STEEL STUD CONNECTORS: TO CSA W59-(LATEST EDITION)
 - G) HOT DIP GALVANIZING: TO CSA G16-(LATEST EDITION)
 - H) SHOP PAINT: PRIMING COATINGS - ALL EXTERIOR STRUCTURAL STEEL TO BE GALVANNEED UNLESS REFER TO SPECIFICATIONS
 - I) SHOP PAINT: PRIMER (FIRST COAT) AND FIELD TOUCH-UP PRIMER: IN ACCORDANCE WITH C885 1-02-113.

3. ALL WELDING SHALL BE DONE WITH E60XX ELECTRODES AND SHALL CONFORM TO THE REQUIREMENTS OF THE CANADIAN WELDING INSTITUTE (CWI) COMPACT STANDARD (CWI-1—LATEST EDITION).
4. ALL GROUP UNDER BEARING PLATES AND BASEMETALS SHALL BE NON-ELECTRIC, NON-STRETCH TYPE WITH MINIMUM 20 DAY COMPRESSIVE STRENGTH OF 40 MPa. REINFORCEMENTS IN ACCORDANCE WITH SPECIFICATIONS AND MANUFACTURERS' RECOMMENDATIONS.
5. CONNECTIONS, IF NOT SPECIFICALLY DESIGNED BY THE CONTRACTOR IN ACCORDANCE WITH CSA CAN. ST.1—LATEST EDITION TO MEET THE REQUIREMENTS OF THE CANADIAN WELDING INSTITUTE (CWI) COMPACT STANDARD, THIS INFORMATION IS NOT GIVEN DESIGN CONNECTIONS TO MEET THE SPECIFIED DEAD LOAD OF ALL MATERIALS AND THE SPECIFIED LIVE LOADS. ALL CONNECTIONS SHALL BE DESIGNED TO BE RESISTED BY FRAGILE DESIGN OF THE CONCRETE AND REINFORCEMENT BARRIER (RESISTED TO FAILURE IN THE PROVINCE OF ALBERTA).

6. CONNECTED TO SOME FACES OF HSS ALLEGES SHALL BE REINFORCED AS REQUIRED AND SHALL BE DESIGNED FOLLOWING ADEQUATE SET OUT IN THE STEEL OR FOLLOWING OTHER STANDARD ENGINEERING PRACTICES.
7. PROPOSED HOT WELD IN STRUTTED MEMBER, WHERE DOWN AND WERE REQUIRED FOR THE ATTACHMENT OF ROLLED BLOOD OR FASTENERS BY OTHER TUBES
8. PROPOSED STITCHED BEARING PLATE ON BOTH SIDE OF W-SHAPE AND ON ONE SIDE OF C-CHANNELS AT ALL LOCATIONS WHERE CONCENTRATED LOADS OCCUR AND AT BEARING SUPPORTS UNLESS INDICATED OTHERWISE
9. PLATES AND HAVE A MINIMUM THICKNESS OF 3 mm BUT SHALL NOT BE THINNER THAN THE WEB OF THE BEAM.

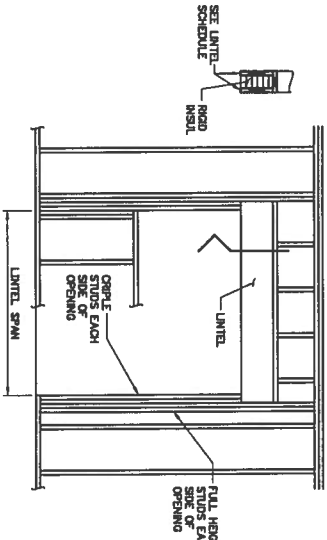
9. PROVIDE GUSSET PLATES AT ALL OPEN ENDS OF ALL TIES JOISTERS. PLATE THICKNESS TO EQUAL WALL THICKNESS OF TIES, UNLESS NOTED OTHERWISE.
10. MAKE ALL OPENINGS IN ROOF AND FLOOR SYSTEMS, ROUND AND RECTANGULAR, PLATE ALL LAMINERS IN AREA WITH A 400 MM DIAMETER HOLE. COORDINATE WITH MECHANICAL, PLUMBING, ARCHITECTURAL, PAINTING AND OTHER CONTRACT DOCUMENTS AND PROVIDE REINFORCED CONCRETE BEAM FRAMES TO SUPPORT CEILING UNITS INCLUDING EQUIPMENT WHERE APPLICABLE.
11. SHOP DRAWINGS SHALL BE SUBMITTED FOR CONSULTANT REVIEW PRIOR TO ANY FABRICATION.
12. THE STRUCTURAL STEEL FRAMING IS SPACED FOR PERMANENT LATERAL STABILITY. ROOF BEAMS ARE DESIGNED TO ACT AS HORIZONTAL DIAPHRAGMS. PROVIDING TEMPORARY BRACING IS REQUIRED DURING CONSTRUCTION. SECTION BRACING TO BE REMOVED ONLY AFTER ROOF DECK, FLOOR DECK AND ALL PERMANENT STRUCTURAL FRAMING IS IN PLACE.
- ALL PERFORATED DECK ANGLES ARE REQUIRED TO BE CONTINUOUS TO JOINTS AS PART OF THE DIAPHRAGM. ANGLES CONTINUITY SHALL BE MAINTAINED BY APPROVED STUDS. STUDS TO BE LOCATED AT SUPPORT POINTS ONLY.

13. CLEAN ALL STEEL PRIOR TO PAINTING TO SSPC SURFACE PREPARATION SPECIFICATION NO. 10. BRUSH-OR BLAST-CLEANED EXPOSED STRUCTURAL STEEL SHALL BE CLEANED TO SSPC SURFACE PREPARATION SPECIFICATION NO. 6. COMMERCIAL "SHALL CLEANING".
14. FIELD WELDING AND FIELD MODIFICATION OF STRUCTURAL STEEL SHALL NOT BE ALLOWED WITHOUT PRIOR REVIEW AND APPROVAL BY CONSULTANT.
15. AT THE COMPLETION OF ERECTION, ALL FIELD JOINTS, BOLTS, WELDS, PAINTED AND UNPAINTED SURFACES SHALL BE THOROUGHLY CLEANED AND PAINTED WITH AN EPOXY-BASED PAINT. ALL STEEL SHALL BE PAINTED WITH TWO COATS OF AN EPOXY-BASED PAINT (DOW-2000-20) TO FORM A DRY FILM THICKNESS OF .8 MILS (IN ACCORDANCE WITH ASTM-A-780).
16. APPLY TWO COATS OF AN APPROVED ASPHALTIC BASED PAINT TO ALL STEEL EXPOSED TO SOIL.

TIMBER NOTES

1. GENERAL
- 1.1. TIMBER CONSTRUCTION SHALL CONFORM TO CAN/CSA 066.1 (A1957) UNLESS NOTED OTHERWISE.
2. MATERIALS AND METHODS OF CONSTRUCTION:
 1. LUMBER: BIL-P-UP BEAMS : 5-4-F-8E 1" / 1" NO. 2 (S-DRY)
 2. JOISTS : PERMANCOATED WOOD - 1" JOISTS TO DETAILS AND PER CAPACITIES
 3. STOMCH ON FLOOR: REFER ABOVE TO SECTION 041000.
 4. MANUFACTURED MEMBERS TO SIZES AS NOTED ON DRAWINGS.
5. PLYWOOD : CAN/CSA 0121 DOUGLAS FIR PLYWOOD
CAN/CSA 0151 CANADIAN SCOTCH PLYWOOD
CAN/CSA 0457 DOUGLAS FIR PLYWOOD
CAN/CSA 0457D WYBOMBED & STANDBOARD
4. EXTERIOR SEALING/ING TO BE PLYWOOD NOT O.S.B.
5. ALL LUMBER IN DIRECT CONTACT WITH MASONRY, CONCRETE, SOIL OR MOISTURE SHALL BE TREATED. REFER TO SPECIALTIONS.
6. PLYWOOD FOR WALLS AND ROOF TO BE AS NOTED ON DRAWINGS.
 1. PLYWOOD FASTENING REQUIREMENTS (U.L.O.)
 - WALL & ROOF SEALING/ING
 - INTERLATCHING FRAMING MEMBERS
 - 16mm (5/8") (U.L.O.)
 2. USE 16mm WALLS U.L.O.

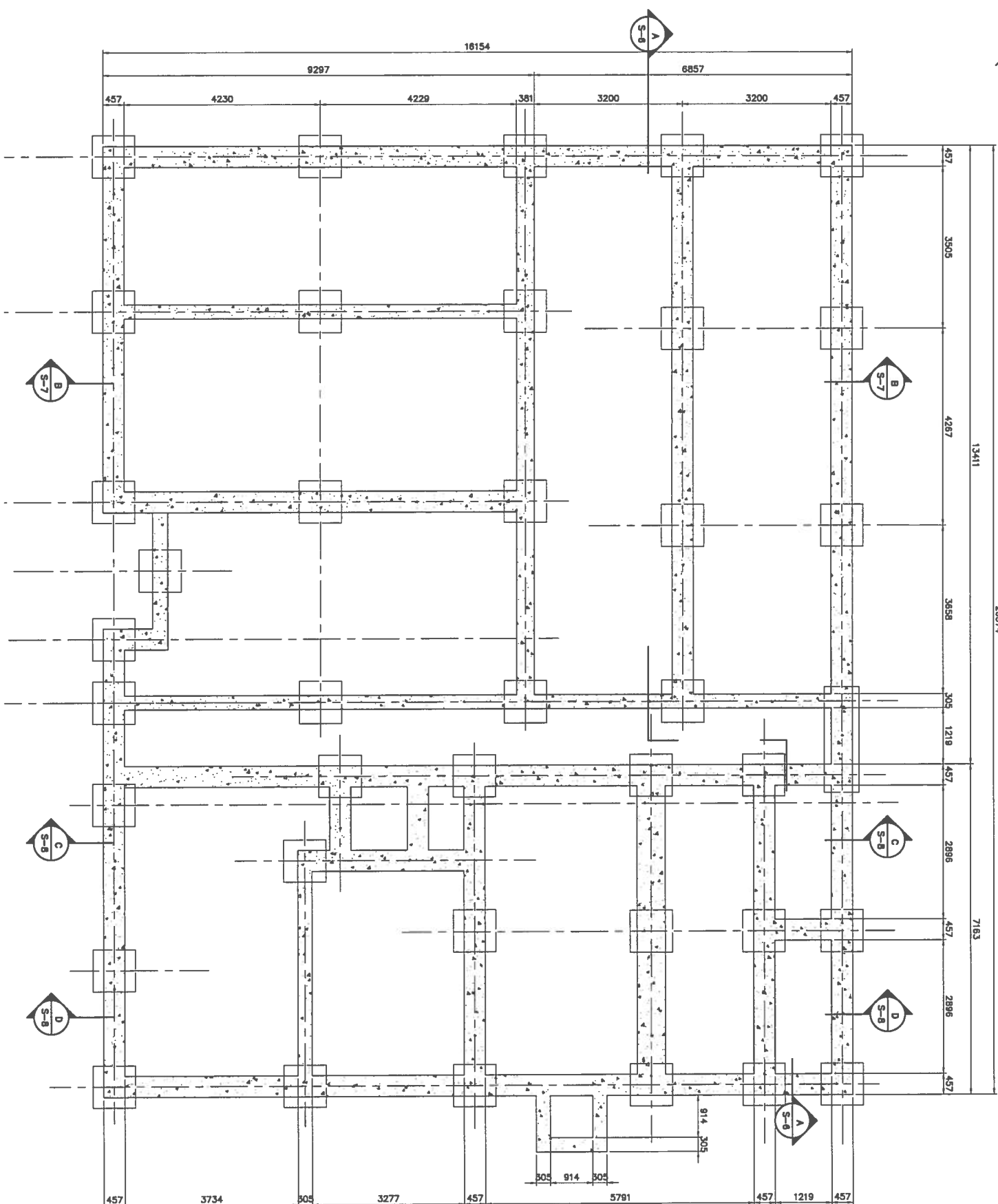
- | UNIT* | SPAN
(mm) | CABLE STUDS
EACH SIDE | FULL HEIGHT STUDS
EACH SIDE |
|------------|--------------|--------------------------|--------------------------------|
| 2 @ 36x184 | 0 - 1200 | 1 | 1 |
| 2 @ 36x226 | 1201 - 1800 | 1 | 2 |
| 3 @ 36x268 | 1801 - 2400 | 2 | 2 |
| 4 @ 36x268 | 2401 - 3000 | 2 | 3 |
- * LAYER THICKNESS WITH RIGID INSULATION
TO MAKE UP TOTAL THICKNESS OF WALL



FILTER TANK FLOOR POST-TENSIONING NOTES

1. PRECONCRETE:
 - 1.1 ALL NEW CONCRETE WALL CONSTRUCTION AND FLOOR TOPPING CONCRETE SHALL BE COMPLETE AND CURED TO AT LEAST 60% f_c PRIOR TO PROCEEDING WITH THERMOCOL STRESSING.
 - 1.2 EACH 20mm DIAMETER THERMOCOL SHALL BE STRESSED WITH A HYDRAULIC JACK TO PROVIDE A 200kN FORCE AFTER ALL SEALING LOSSES.
- DO NOT DISTURB, ANCHORS

- 1.3 STRESSING SHALL OCCUR IN THE SEQUENCE INDICATED ON THE PLAN, OR WHERE NOT INDICATED IN AN ENGINEER THE APPROVED SEQUENCE.
- 1.4 A CRYSTAL CALIBRATION GAGE SHALL ACCOMPANY EACH HYDRAULIC AND STRESSING OPERATION. THE GAGE SHALL BE CALIBRATED TO ACHIEVE RELAXATION, PLASTIC FLOW, ETC. SHALL BE CONSIDERED. SLIGHT ALL TO ENGINEER IN ADVANCE OF STRESSING OPERATION.
- 1.5 STRESS IN THE TENSILEBARS SHALL BE RELEASED BY MEANS OF BAR DOWEL GUIDES WHEN DISCREPANCIES BETWEEN EXTENSION AND GAGE PRESSURE EXIST. WHEN STRESSING SHALL STOP AND NOT PROCEED AGAIN UNTIL THE SITUATION IS RECTIFIED.
- 1.6 RECORDS SHALL BE MAINTAINED FOR ALL STRESSING OPERATIONS INCLUDING THE FOLLOWING: (1) STRESSING LOCATION, (2) SPLIT END COPY TO THE ENGINEER UPON PROJECT COMPLETION.
- 1.7 UNLESS OTHERWISE INDICATED POST STRESSING PROCEDURES SHALL CONFORM TO CSA A23.1-70, AND TO GOOD PRACTICE FOR QUALITY POST STRESSING OPERATION. IN CONFORMANCE WITH ALL REQUIREMENTS OF THE SUPPLY/MANUFACTURE.
2. VALIDATION
- 2.1 P-T GAGE/RECORD TO BE PROVIDED THROUGHOUT BY ENGINEER APPROVED EQUIVA. TO CSA G27-422 FIVE (5)X30 UP TO BE NOT DIPPED DAWANED AFTER FABRICATION.
- 2.2 P-T ANCHOR PLATES, NUTS, CONEPLATES - AS MANUFACTURED BY FABRICATOR, ENGINEER APPROVED MANUFACTURER FOR STRENGTH USE. FABRICATOR, ENGINEER APPROVED MANUFACTURER NOT DIPPED DAWANED AFTER FABRICATION, UNLESS NOTED OTHERWISE.



PLAN BELOW ELEVATION 91.440 (300')

SCALE: 1:50

1. REFERENCE : INFORMATION PRESENTED ON THIS DRAWING DESCRIBING EXISTING STRUCTURE, FROM CONTRACT NO. CA-02-1-28 DRAINAGES.
2. ALL EXISTING WALLS AND SLABS ARE REINFORCED CONCRETE. REINFORCEMENT NOT INDICATED.
3. REFER TO DEPARTMENT OF PUBLIC WORKS CANADA - WATER TREATMENT AND WATER SUPPLY DRAWINGS FOR FROBISHER BAY W.W.T. CONTRACT NO. CA-02-1-28 FOR DETAILS DESCRIBING EXISTING STRUCTURE.

Company Permit Engineer Seal

STRUCTURAL

CITY OF IQUALUIT

EARTHTECH

RECORD DRAWING
INFORMATION CONTAINED IN THESE DRAWINGS
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EXISTING FOUNDATION LAYOUT

City of Iqaluit, Nunavut

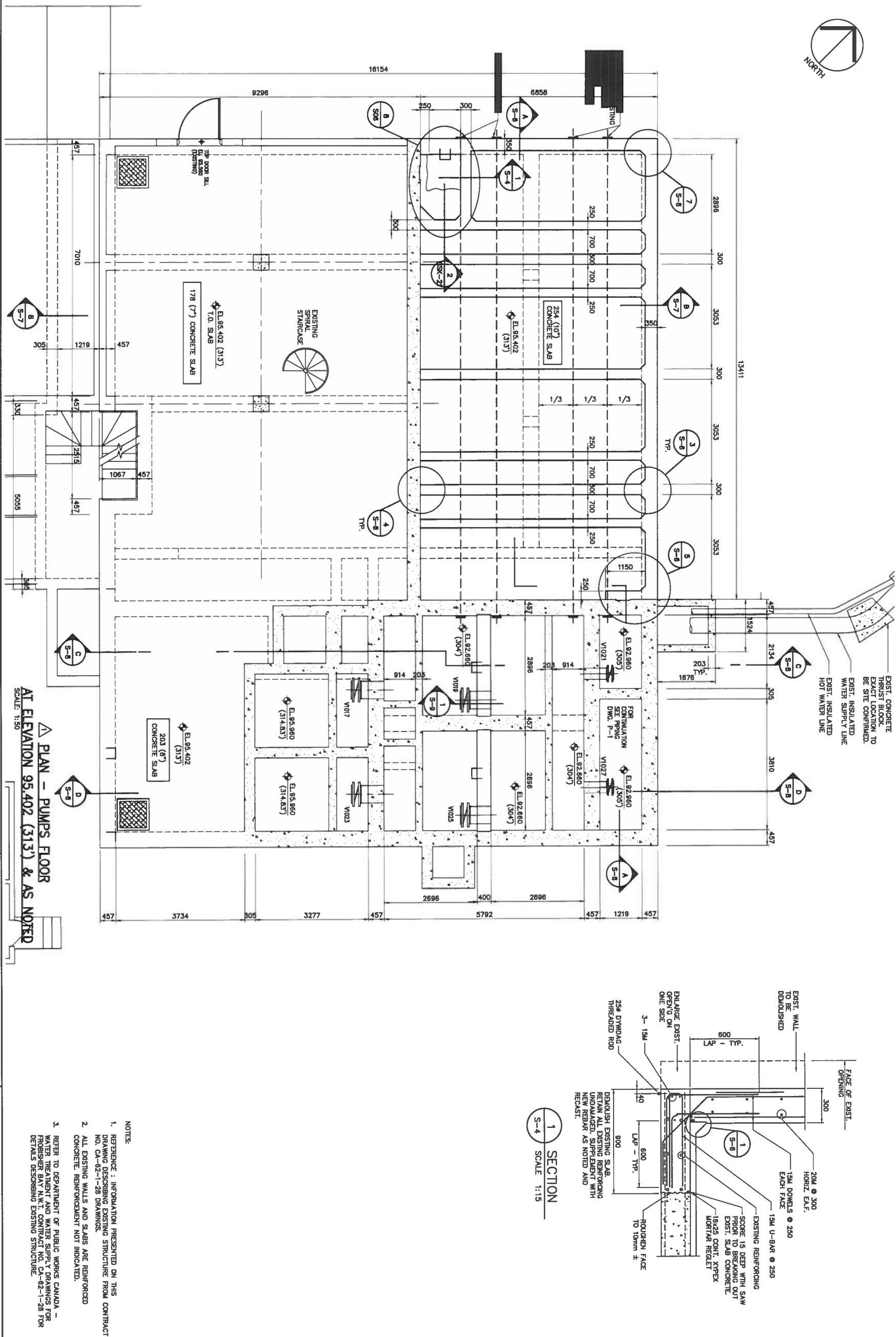
QUALITY WATER TREATMENT PLANT

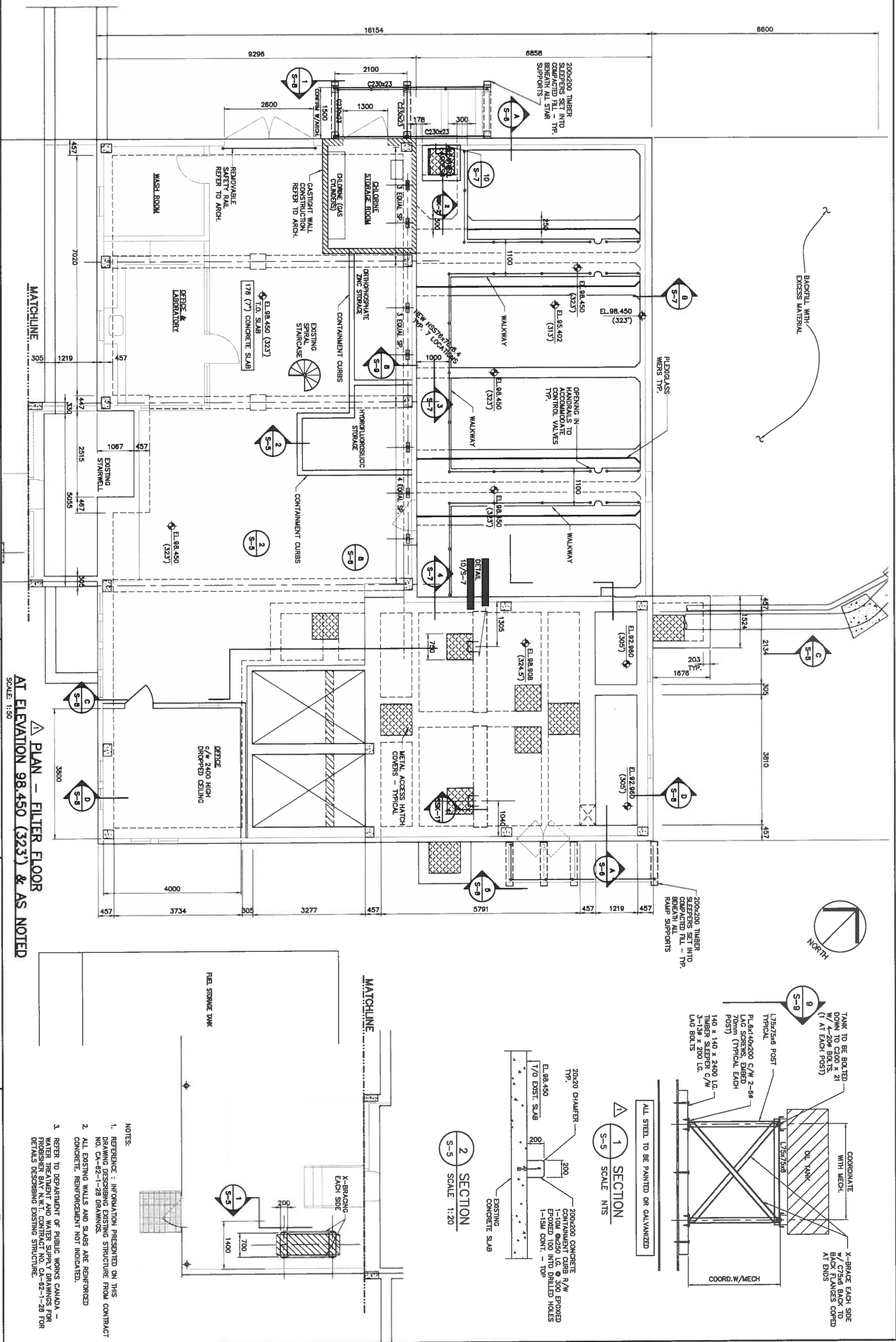
Earth Tech (Canada) Inc.		SCALE:		DATE:		SHEET NO.	
DRAWN BY: BL		AS NOTED		FEB. 19, 2003			
CHECKED BY: GJK							
CADD SYSTEM: AutoCAD		DWG NO.		REV.		CONTACT	
				1		55524	

SCALE:	AS NOTED	DATE:	FEB. 19, 2003	SHEET NO.
DWG NO.	S-2		REV.	CONTRACT
			1	55524

S-2

REV.	1	55524
CONTINUED		





NO.	REVISION	DATE	INITIAL
2	RECORD DRAWING	23/04/04	
1	ISSUED FOR CONSTRUCTION	22/04/03	
0	ISSUED FOR TENDER	19/02/03	
A	ISSUED FOR FINAL REVIEW	03/02/03	

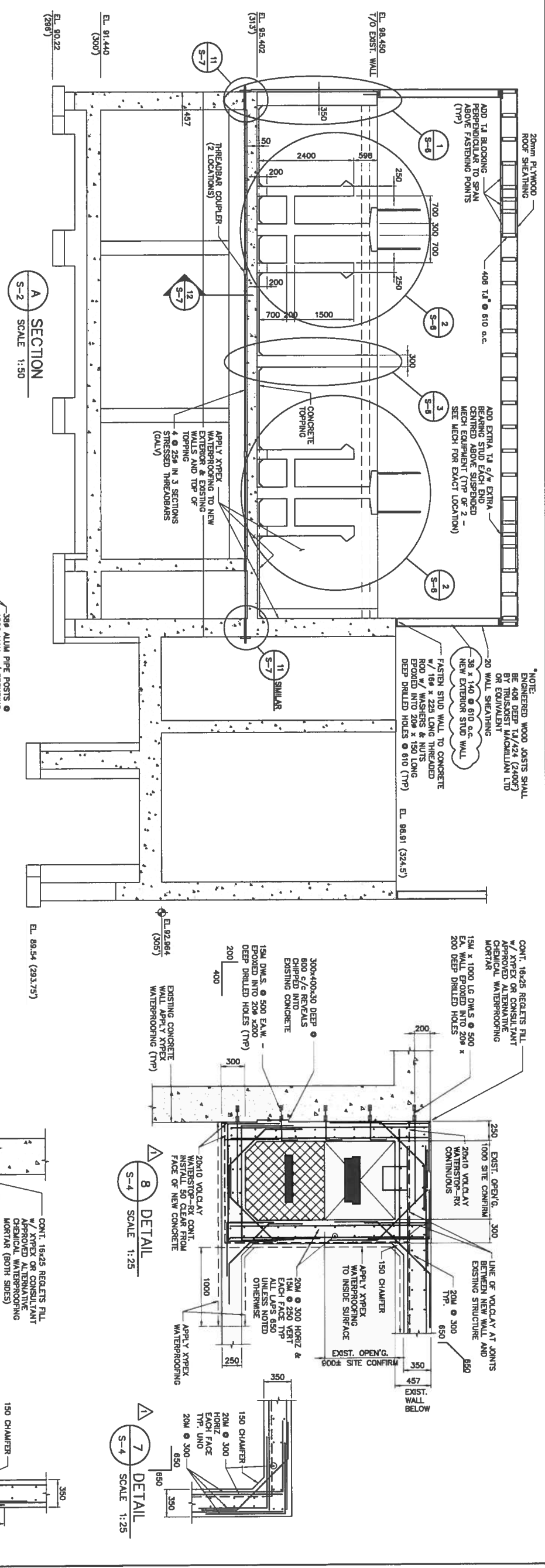
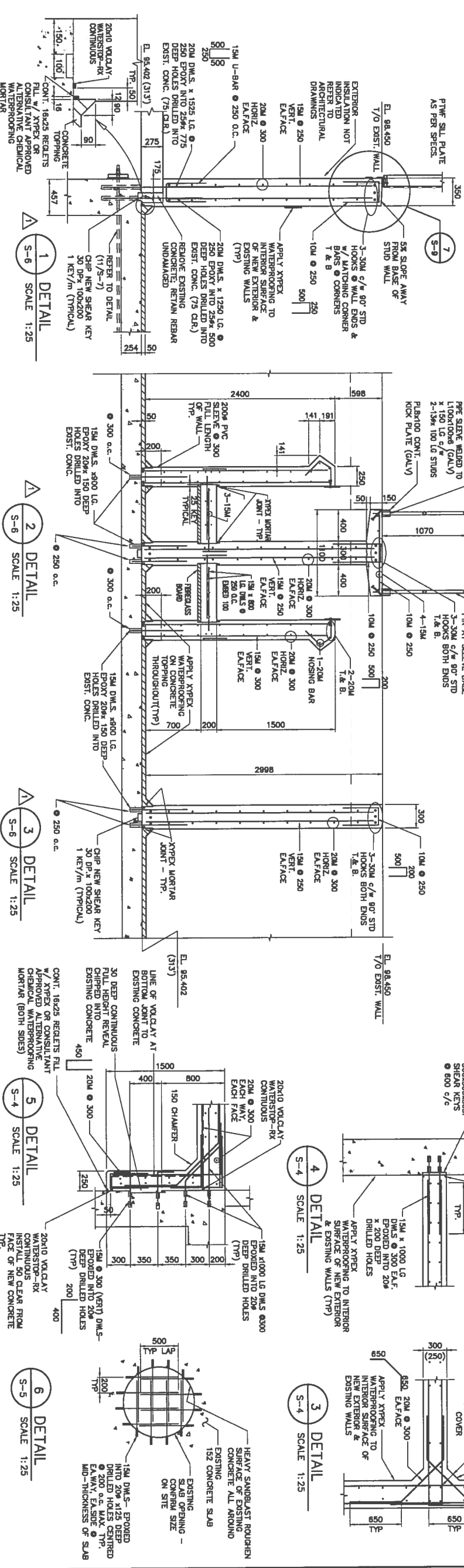
RECORD DRAWING
APPROVED BY: AS SHOWN IN
NINETEEN NORTH CONSTRUCTION &
RELOCATION TO THE
THE RECORD DRAWING IS NOT GUARANTEED.
INFORMATION SHOULD BE VERIFIED AT THE
ACTUAL LOCATION BEFORE USE.

STRUCTURAL
SECTIONS AND DETAILS

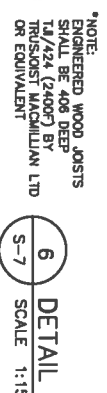
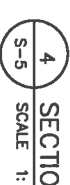
Iqaluit
CITY OF IQALUIT,
Nunavut

IQALUIT WATER TREATMENT PLANT

EARTH TIE
Earth Tech (Canada) Inc.
SCALE: AS NOTED
DATE: FEB. 19, 2003
SHEET NO.
DRAWN BY: ELK
CHECKED BY: CLK
CADD SYSTEM: AUTOCAD
DWG NO.:
REV. 1
CONTRACT: 55524



1. REFERENCE : INFORMATION PRESENTED ON THIS DRAWING DESCRIBING EXISTING STRUCTURE FROM CONTRACT NO. CA-82-1-28 DRAWINGS.
2. ALL EXISTING WALLS AND SLABS ARE REINFORCED CONCRETE. REINFORCEMENT NOT INDICATED.
3. REFER TO DEPARTMENT OF PUBLIC WORKS CANADA - WATER TREATMENT AND WATER SUPPLY DRAWINGS FOR PROSIBER A/N.W.T. CONTRACT NO. CA-82-1-28 FOR DETAILS DESCRIBING EXISTING STRUCTURE.



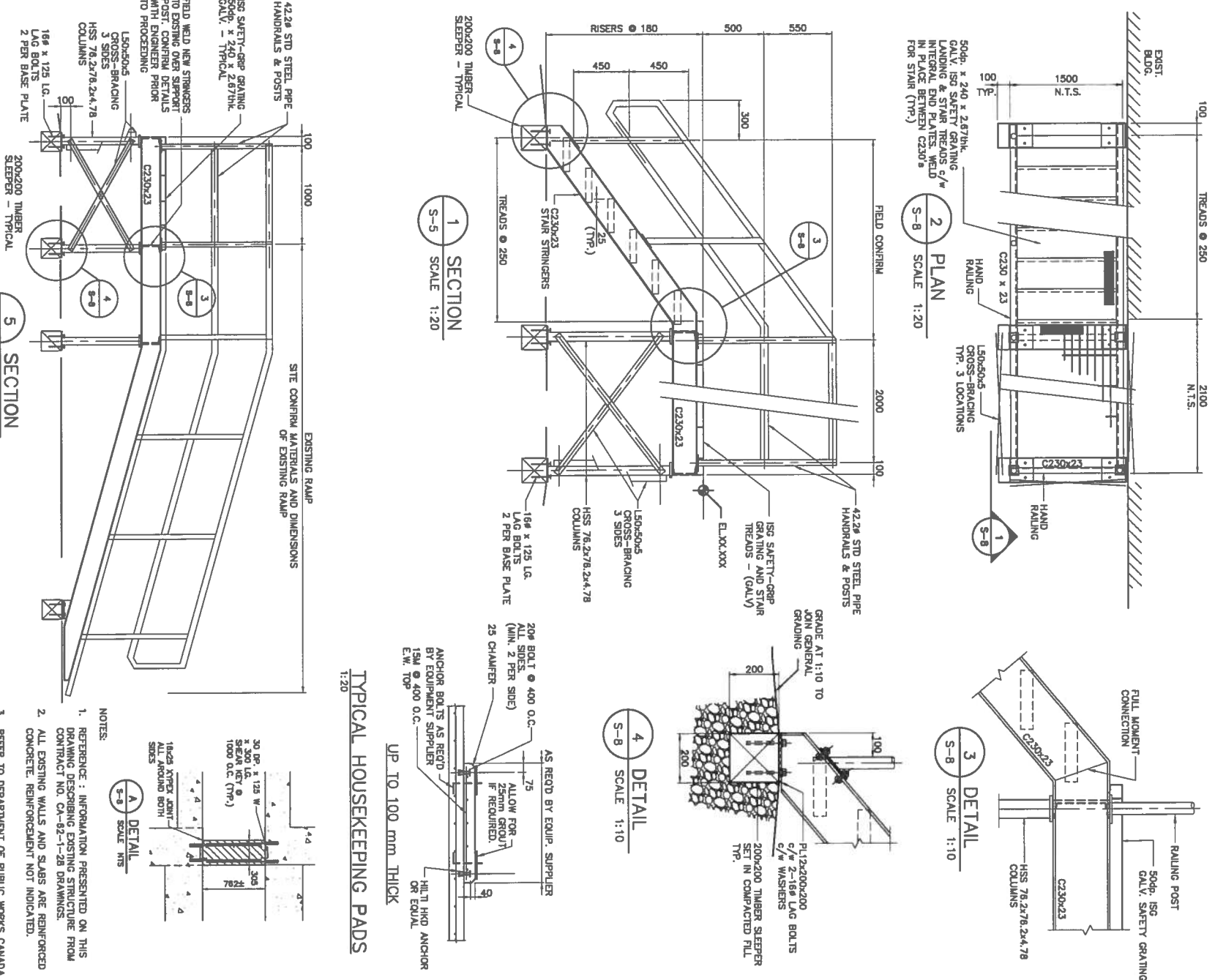
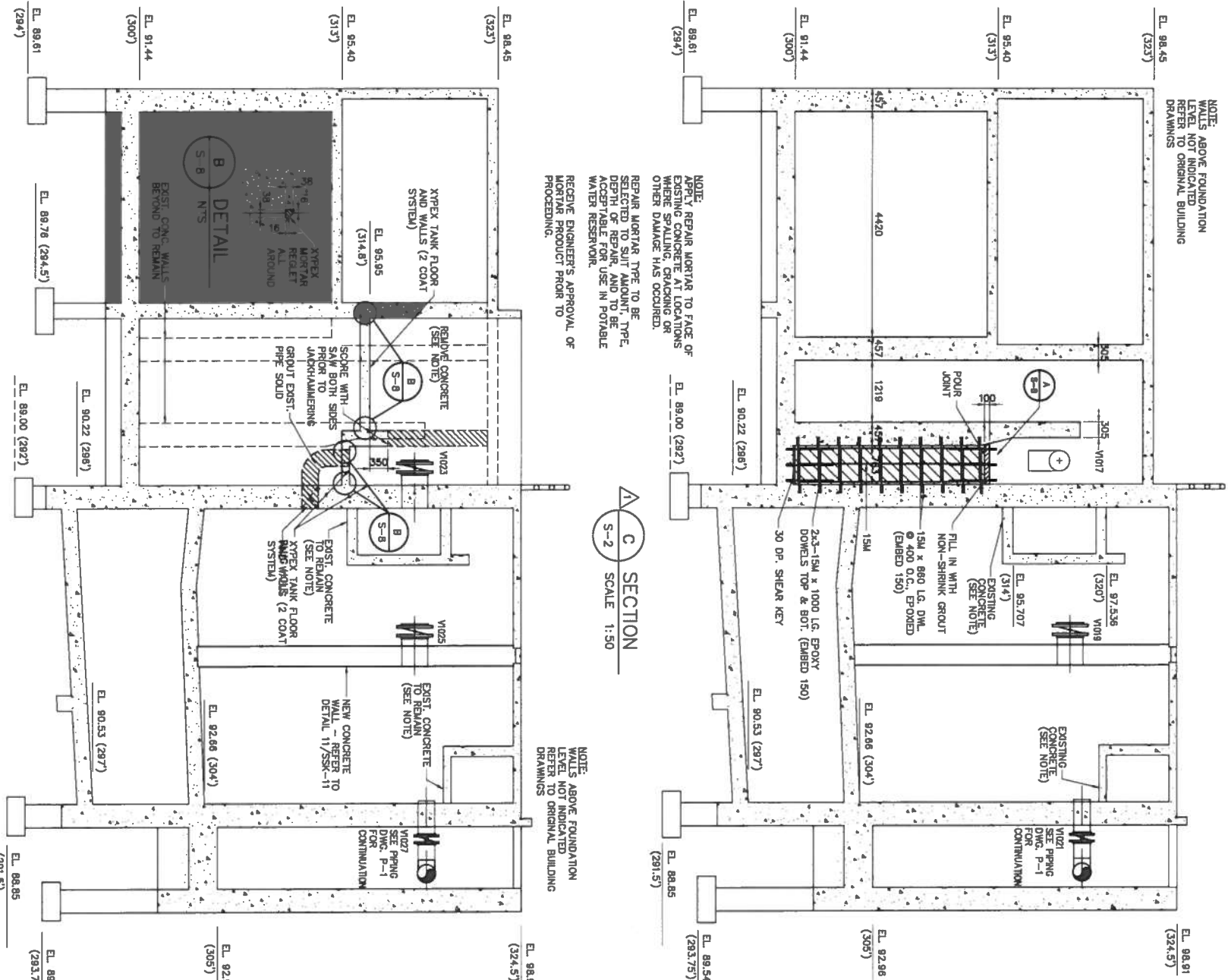
RECORD DRAWING
REGISTRATION CONTAINED IN THESE DRAWINGS
IS AS SUPPLIED BY:
NHEHTY NORTH CONSTRUCTION &
DEVELOPMENT LTD.
THE COMPLETENESS AND ACCURACY OF THIS
RECORD DRAWING IS NOT GUARANTEED.
REGISTRATION SHOULD BE VERIFIED AT THE
ACTUAL LOCATION BEFORE USE.

SECTIONS AND DETAILS

CITY OF IQUALUIT
IQUALUIT WATER TREATMENT PLANT

THE

Earth Tech (Canada) Inc.				E A R T H T E C H	
Drawn By: BL	SCALE:	AS NOTED	DATE:	FEB. 19, 2003	SHEET NO.
CHECKED BY: CLK					
CADD SYSTEM	DWG NO.	S-7		REV.	1
				CONTACT	55524



RECORD DRAWING				STRUCTURAL			
NO.	REVISION	DATE	INITIAL	NO.	REVISION	DATE	INITIAL
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1	ISSUED FOR CONSTRUCTION	22/04/03					
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A	ISSUED FOR FINAL REVIEW	03/02/03					

City of Iqaluit,
City of Iqaluit,

Earth Tech (Canada) Inc.

City of Iqaluit Water Treatment Plant

DRAWN BY: BLK	SCALE: AS NOTED	DATE: FEB. 19, 2003	SHEET NO.
CHECKED BY: GJK	NO. AS NOTED	REV. 1	CONTRACT NO. 55524
CADD SYSTEM: AutoCAD			

