AREA 0 - GENERAL

	CIVIL
0C01	STANDARD DETAILS
0C02	STANDARD DETAILS
0C03	STANDARD DETAILS
0C04	BASE COMPOSITE PLAN
0C05	SITE ACCESS
0C06	WATER DISTRIBUTION SCHEMATIC
0C07	PACKAGED DUPLEX LIFT STATION
0C08	PACKAGED SIMPLEX LIFT STATION
0C09	YARD PIPING
0C10	LANDSCAPING AND FENCING
0C11	SITE ACCESS
0C12	LAYOUT COORDINATES
0C13	STRUCTURE SETBACKS
	ELECTRICAL
0E01	ELECTRICAL LEGEND AND STANDARD DETAILS
0E02	ELECTRICAL STANDARD DETAILS
0E03	ELECTRICAL STANDARD DETAILS
0E04	SINGLE LINE DIAGRAM
0E05	MDC / MCC MOTOR SCHEDULE
0E06	MDC / MCC ELEVATIONS
0E07	LUMINAIRE & PANEL SCHEDULES
0E08	SITE LIGHTING AND DUCTS
	INSTRUMENTATION
0i01	INSTRUMENTATION STANDARD DETAILS
0i02	INSTRUMENTATION HART TRANSMITTER LOCATIONS
	MECHANICAL
0M01	HVAC LEGEND AND DETAILS
	PROCESS
0P01	STANDARD DETAILS
0P02	STANDARD DETAILS
0P03	STANDARD DETAILS
0P04	STANDARD DETAILS
0P05	STANDARD DETAILS
0P06	HYDRAULIC PROFILE
0P07	AIR COMPRESSOR SYSTEM - PIPING AND INSTRUMENTATION DIAGRAM
0P08	FERRIC CHLORIDE DOSING SYSTEM DETAILS
	STRUCTURAL
0S01	STRUCTURAL STANDARD DETAILS - GENERAL NOTES
0S02	STRUCTURAL STANDARD DETAILS
0S03	STRUCTURAL STANDARD DETAILS
0S04	STRUCTURAL STANDARD DETAILS
0S05	STRUCTURAL STANDARD DETAILS
0S06	STRUCTURAL STANDARD DETAILS
0S07	STRUCTURAL STANDARD DETAILS
0S08	STRUCTURAL STANDARD DETAILS
0S09	STRUCTURAL STANDARD DETAILS

AREA 1 - HEADWORKS

ELECTRICAL

1E01	LOWER FLOOR POWER & LIGHTING
1E02	MAIN FLOOR - POWER & LIGHTING

INSTRUMENTATION

1i01	AREAS 1, 3 AND 6 - MAIN FLOOR PLAN INSTRUMENTATION LAYOUT

MECHANICAL

1M01	HEADWORKS/DAF/BLOWER BUILDING - BASEMENT HVAC PLAN AND SECTION
1M02	PROCESS BUILDING - HVAC MAIN FLOOR PLAN
1M03	PROCESS BUILDING - MECHANICAL ROOF PLAN AND HEATING SCHEMATIC
1M04	PROCESS BUILDING - MECHANICAL DETAILS
1M05	HEADWORKS/DAF/BLOWER BUILDING - FOUNDATION PLUMBING PLAN
1M06	PROCESS BUILDING - HEATING MAIN FLOOR PLAN

PROCESS

1P01	HEADWORKS - PIPING AND INSTRUMENTATION DIAGRAM
1P02	MAIN FLOOR PLAN - GENERAL ARRANGEMENT
1P03	EQUALIZATION TANK - PIPING AND INSTRUMENTATION DIAGRAM
1P04	LOWER FLOOR PLAN - EQUALIZATION - GENERAL ARRANGEMENT

STRUCTURAL

1S01	HEADWORKS/DAF/BLOWER BUILDING - FOUNDATION PLAN
1S02	HEADWORKS/DAF/BLOWER BUILDING - MAIN FLOOR PLAN
1S03	HEADWORKS/DAF/BLOWER BUILDING - ROOF PLAN
1S04	HEADWORKS/DAF/BLOWER BUILDING - STAIR SECTIONS
1S05	HEADWORKS/DAF/BLOWER BUILDING - BUILDING SECTIONS
1S06	HEADWORKS/DAF/BLOWER BUILDING - ELEVATIONS
1S07	HEADWORKS/DAF/BLOWER BUILDING - ELEVATIONS
1S08	HEADWORKS/DAF/BLOWER BUILDING - DETAILS

AREA 2 - PRIMARY CLARIFIER

ELECTRICAL

2E01	POWER

INSTRUMENTATION

2i01	INSTRUMENTATION LAYOUT

PROCESS

2P01	PRIMARY CLARIFIER 1 - PIPING AND INSTRUMENTATION DIAGRAM
2P02	PRIMARY CLARIFIER PLAN
2P03	PRIMARY CLARIFIER - SECTIONS AND DETAILS

STRUCTURAL

2S01	FERMENTER / PRIMARY CLARIFIER - FOUNDATION / TOP PLAN AND DETAILS
2S02	FERMENTER / PRIMARY CLARIFIER - SECTIONS AND DETAILS
2S03	FERMENTER / PRIMARY CLARIFIER - SECTIONS AND DETAILS

AREA 3 - BIOREACTOR

ELECTRICAL

3E01	POWER & LIGHTING
3E02	BLOWER AREA POWER & LIGHTING
3E03	MAINTENANCE AREA POWER & LIGHTING
3E04	ELECTRICAL ROOM DETAILS

INSTRUMENTATION

1i01	AREAS 1, 3 AND 6 - MAIN FLOOR PLAN INSTRUMENTATION LAYOUT

PROCESS

3P01	PROCESS AIR BLOWER 1 - PIPING AND INSTRUMENTATION DIAGRAM
3P02	PROCESS AIR BLOWER 2 - PIPING AND INSTRUMENTATION DIAGRAM
3P03	PROCESS AIR BLOWER 3 - PIPING AND INSTRUMENTATION DIAGRAM
3P04	BIOREACTOR PIPING AND INSTRUMENTATION DIAGRAM
3P05	ALUM SYSTEM PIPING AND INSTRUMENTATION DIAGRAM
3P06	BIOREACTOR - FLOOR PLANS
3P07	BIOREACTOR - SECTIONS AND DETAILS
3P08	BIOREACTOR - SECTIONS AND DETAILS
3P09	BLOWER ROOM FLOOR PLAN - GENERAL ARRANGEMENT
3P10	BLOWER ROOM - SECTIONS AND DETAILS

STRUCTURAL

3S01	BIOREACTOR - FOUNDATION PLAN
3S02	BIOREACTOR - TOP PLAN
3S03	BIOREACTOR - SECTIONS AND DETAILS
3S04	BIOREACTOR - SECTIONS AND DETAILS
3S05	BIOREACTOR - SECTIONS AND DETAILS

AREA 4 - SECONDARY CLARIFIERS

ELECTRICAL

4E01	POWER

INSTRUMENTATION

4i01	INSTRUMENTATION LAYOUT

PROCESS

4P01	SECONDARY CLARIFIERS 1 AND 2 - PIPING AND INSTRUMENTATION DIAGRAM
4P02	SECONDARY CLARIFIERS - GENERAL ARRANGEMENT
4P03	SECONDARY CLARIFIERS - SECTIONS AND DETAILS
4P04	SECONDARY CLARIFIERS - GENERAL GEOMETRY

STRUCTURAL

4S01	SECONDARY CLARIFIERS - FOUNDATION PLANS / TOP PLANS
4S02	SECONDARY CLARIFIERS - SECTIONS AND DETAILS
4S03	SECONDARY CLARIFIERS - SECTIONS AND DETAILS
4S04	SLUDGE VAULTS - PLANS & SECTIONS

AREA 5 - FILTER/UV BUILDING

	ELECTRICAL
5E01	LIGHTING
5E02	POWER
	INSTRUMENTATION
5i01	INSTRUMENTATION LAYOUT
	MECHANICAL
5M01	PLUMBING AND HVAC
5M02	ROOF PLAN MECHANICAL LAYOUT
	PROCESS
5P01	FILTER 1 - PIPING AND INSTRUMENTATION DIAGRAM
5P02	UV DISINFECTION AND C3 PUMPS - PIPING AND INSTRUMENTATION DIAGRAM
5P03	FILTER/UV DISINFECTION - GENERAL ARRANGEMENT
5P04	FILTER/UV DISINFECTION - SECTIONS AND DETAILS
	STRUCTURAL
5S01	FOUNDATION PLAN
5S02	FLOOR PLAN
5S03	ROOF PLAN
5S04	ELEVATIONS
5S05	BUILDING SECTIONS
5S06	BUILDING SECTIONS

AREA 6 - SLUDGE MANAGEMENT

INSTRUMENTATION

1i01	AREAS 1, 3 AND 6 - MAIN FLOOR PLAN INSTRUMENTATION LAYOUT
6i01	LOWER FLOOR PLAN INSTRUMENTATION LAYOUT
6i02	MAIN FLOOR PLAN INSTRUMENTATION LAYOUT

PROCESS

6P01	DAF UNIT AND SLUDGE VAULT - PIPING AND INSTRUMENTATION DIAGRAM
6P02	LOWER FLOOR PLAN - GENERAL ARRANGEMENT
6P03	LOWER FLOOR - SECTIONS AND DETAILS
6P04	MAIN FLOOR PLAN - SECTIONS AND DETAILS

AREA 7 - ODOUR MANAGEMENT SYSTEM

PROCESS

7P01	FOUL AIR BLOWERS - PIPING AND INSTRUMENTATION DIAGRAM
7P02	PLANS, SECTIONS AND DETAILS

AREA 8 - OPERATIONS/ADMINISTRATION

ELECTRICAL

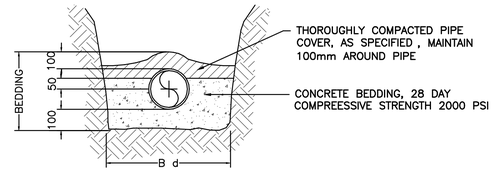
8E01	POWER & LIGHTING

MECHANICAL

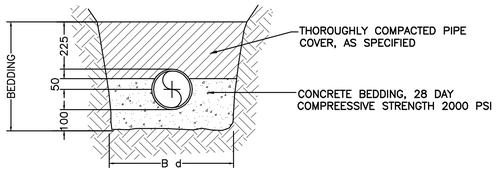
8M01	MAIN FLOOR HVAC PLAN
8M02	MAIN FLOOR PLUMBING

STRUCTURAL

8S01	FOUNDATION PLAN
8S02	MAIN FLOOR PLAN
8S03	BUILDING SECTIONS & DETAILS
8S04	ELEVATIONS
8S05	ROOF PLAN



FOR C.I., D.I., COPPER, G.I. AND CONCRETE PIPE

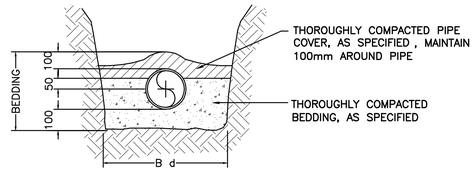


FOR PVC OR PE PIPE

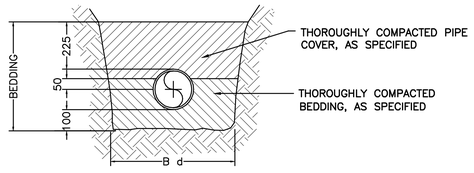
CLASS 'A' BEDDING

NOTES:
1) B c = PIPE O.D.
2) B d = MIN. Bc+400mm
   MAX. Bc+600mm
3) ALL DIMENSIONS SHOWN IN MILLIMETRES

1 / 0C01 BEDDING CLASSIFICATION
SCALE N.T.S.



FOR C.I., D.I., COPPER, G.I. AND CONCRETE PIPE

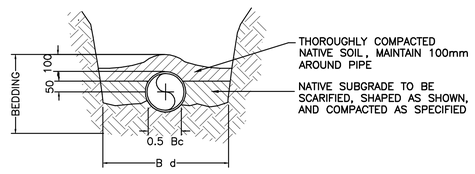


FOR PVC OR PE PIPE

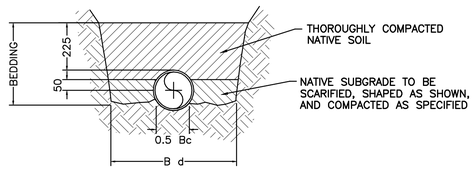
CLASS 'B' BEDDING

NOTES:
1) B c = PIPE O.D.
2) B d = MIN. Bc+400mm
   MAX. Bc+600mm
3) ALL DIMENSIONS SHOWN IN MILLIMETRES

2 / 0C01 BEDDING CLASSIFICATION
SCALE N.T.S.



FOR C.I., D.I., COPPER, G.I. AND CONCRETE PIPE

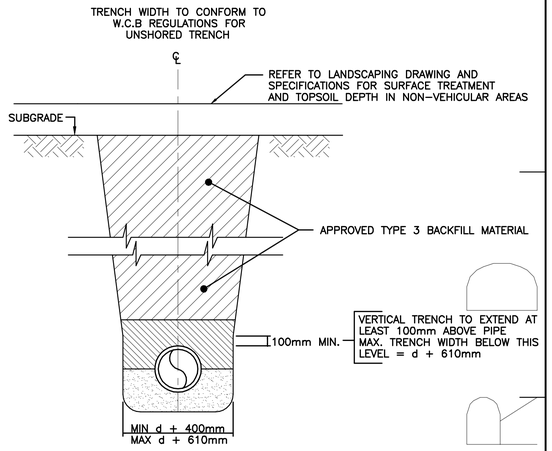


FOR PVC OR PE PIPE

CLASS 'C' BEDDING

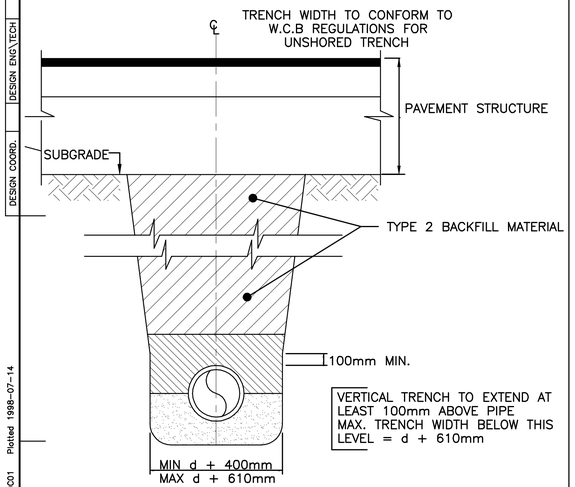
NOTES:
1) B c = PIPE O.D.
2) B d = MIN. Bc+400mm
   MAX. Bc+600mm
3) ALL DIMENSIONS SHOWN IN MILLIMETRES

3 / 0C01 BEDDING CLASSIFICATION
SCALE N.T.S.



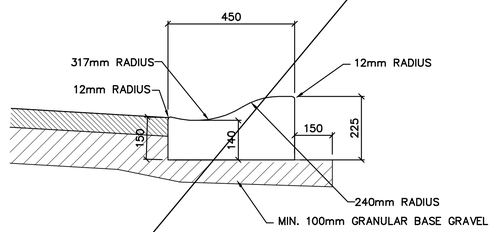
NOTE: d = OUTSIDE DIAMETER OF THE PIPE SECTION

4 / 0C01 UTILITY TRENCH – UNPAVED AREAS
SCALE N.T.S.

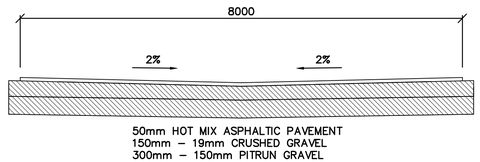


NOTE: d = OUTSIDE DIAMETER OF THE PIPE SECTION

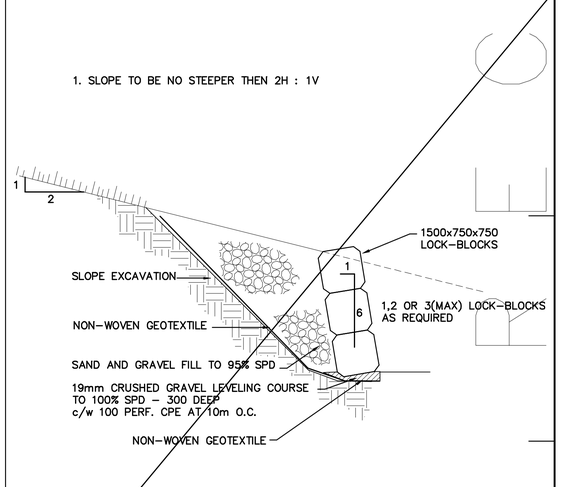
5 / 0C01 UTILITY TRENCH – PAVED AREAS
SCALE N.T.S.



6 / 0C01 STANDARD TYPE 2 CURB AND GUTTER
SCALE N.T.S.



7 / 0C01 ROAD CROSS-SECTION
SCALE N.T.S.



8 / 0C01 LOCK-BLOCK INSTALLATION
SCALE N.T.S.

DESIGN ENG\TECH
DESIGN COORD.
H:\PROJECTS\ENV\03984400\02A\123A\CIVIL\8440001 Plotted 1998-07-14
SWWTPA1

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No.	Date	By	Revision	Chkd
5	MAY98	ER	RECORD DRAWING	KJW
4	28MAY97	KJW	APPROVED FOR CONSTRUCTION, C.O. 4	MHC
3	25FEB97	KJW	FOR CONSTRUCTION – ROAD X-SECTION REVISED	MHC
2	AUG 96	KJW	ADDENDUM 1 – ROAD X-SECTION	MHC
1	JULY 96	KJW	ISSUED FOR GMP TENDER	MHC

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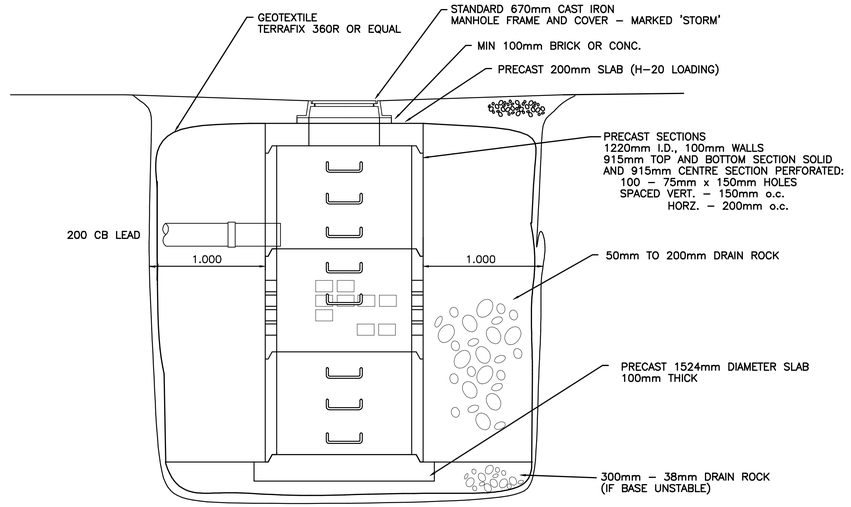
Design
Drawn KJW
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 0 – GENERAL SITE
CIVIL
STANDARD DETAILS

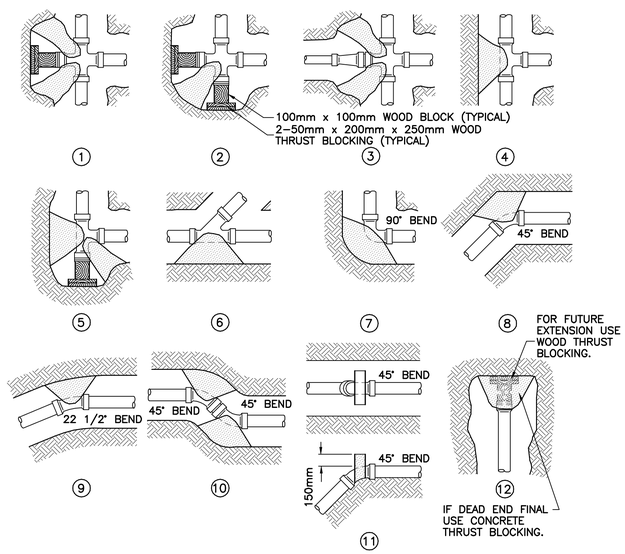
Reid Crowther 39844

Scale AS NOTED
Date JULY 1996
City File
Sheet of
Drawing 0C01

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO →



1 / 0C02 STANDARD DRYWELL
SCALE N.T.S.



REACTION BLOCKING – BEARING AREA													
	AREA IN m^2							AREA IN m^2					
TYPE	PIPE SIZE (mm)						TYPE	PIPE SIZE (mm)					
	100	150	200	250	300	400		100	150	200	250	300	400
1/4/12	0.20	0.40	0.65	1.10	1.45	2.60	9	0.10	0.15	0.30	0.45	0.60	1.10
2/5/7	0.30	0.55	0.90	1.45	2.10	3.70	10	0.30	0.60	1.00	1.20	2.20	4.20
3	0.10	0.15	0.20	0.35	0.50	0.85	HYDRNT		0.40				
6/8/12	0.15	0.30	0.60	0.60	1.20	2.00							

NOTES:

1. THRUST BLOCK AREAS BASED ON 75 Kpa HORIZONTAL LOADING.
2. CONCRETE TO BE 15 Mpa AT 28 DAYS.
3. ALL BLOCKING TO BE AGAINST SOLID GROUND.
4. WOOD BLOCKING TO BE AGAINST SOLID GROUND.
5. REACTION BLOCKING NOT REQUIRED AT FLANGED P.E. FITTINGS.

2 / 0C02 THRUST BLOCK DETAILS
SCALE N.T.S.

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4	MAY98	ER	RECORD DRAWING	KJW					
3	28MAY97	KJW	APPROVED FOR CONSTRUCTION, C.O. 4	MHC					
2	25FEB97	KJW	ISSUED FOR CONSTRUCTION	MHC					
1	JULY 96	KJW	ISSUED FOR GMP TENDER	MHC					

Design
Drawn KJW
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 0 – GENERAL SITE

Reid Crowther 39844

CIVIL
STANDARD DETAILS

Scale AS NOTED
Date JULY 1996
City File
Sheet of
Drawing 0C02

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO →

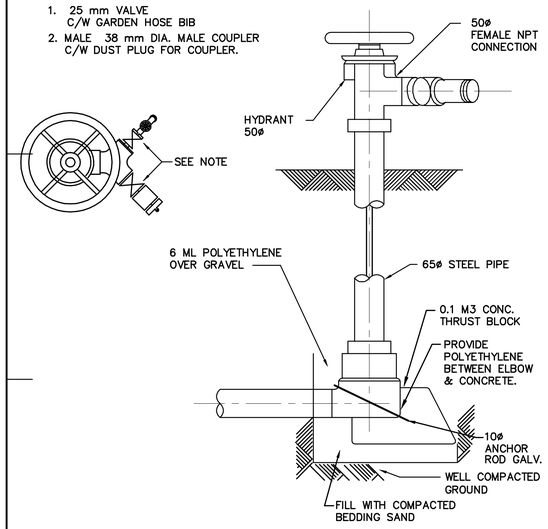
4

DESIGN COORD. | DESIGN ENG\TECH

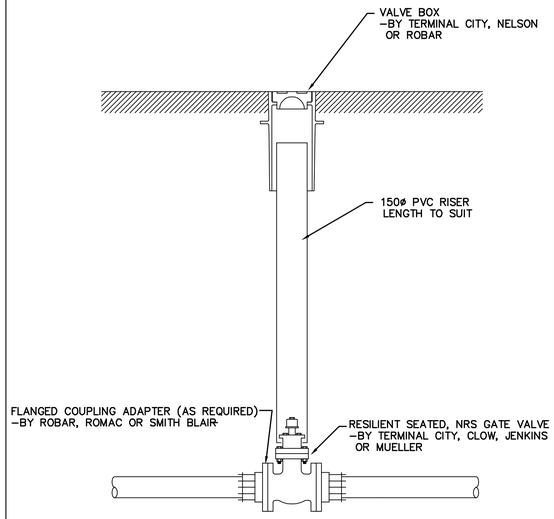
SWWTPA1 H:\PROJECTS\ENV\0398400\02A\123A\CIVIL\8440202 Plotted 1998-07-14

REC ORD

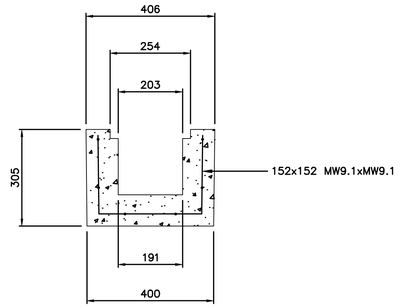
NOTE:
1. 25 mm VALVE C/W GARDEN HOSE BIB
2. MALE 38 mm DIA. MALE COUPLER C/W DUST PLUG FOR COUPLER.

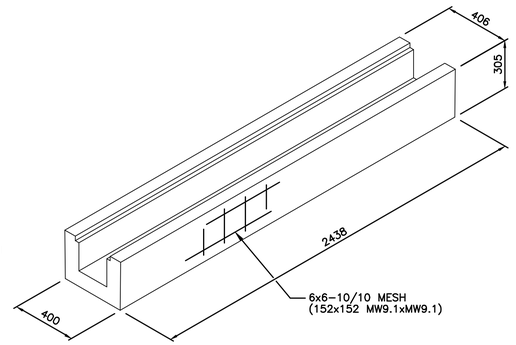


1 / 0C03 YARD HYDRANT
SCALE N.T.S.



2 / 0C03 BURIED GATE VALVE INSTALLATION
SCALE N.T.S.





ISOMETRIC

NOTE: SEE KONKAST ITEM NO. 1430

3 / 0C03 DRAINAGE TROUGH
SCALE N.T.S.

4 / 0C03 SCALE N.T.S.

5 / 0C03 SCALE N.T.S.

6 / 0C03 SCALE N.T.S.

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7 / 0C03 SCALE N.T.S.

DESIGN COORD. | DESIGN ENG\TECH

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
5	MAY98	ER	RECORD DRAWING	KJW					
4	28MAY97	KJW	APPROVED FOR CONSTRUCTION, C.O. 4	MHC					
3	24MAR97	KJW	ISSUED FOR CONSTRUCTION(DRAINAGE TROUGH)	MHC					
2	25FEB97	KJW	ISSUED FOR CONSTRUCTION	MHC					
1	JULY 96	KJW	ISSUED FOR GMP TENDER	MHC					

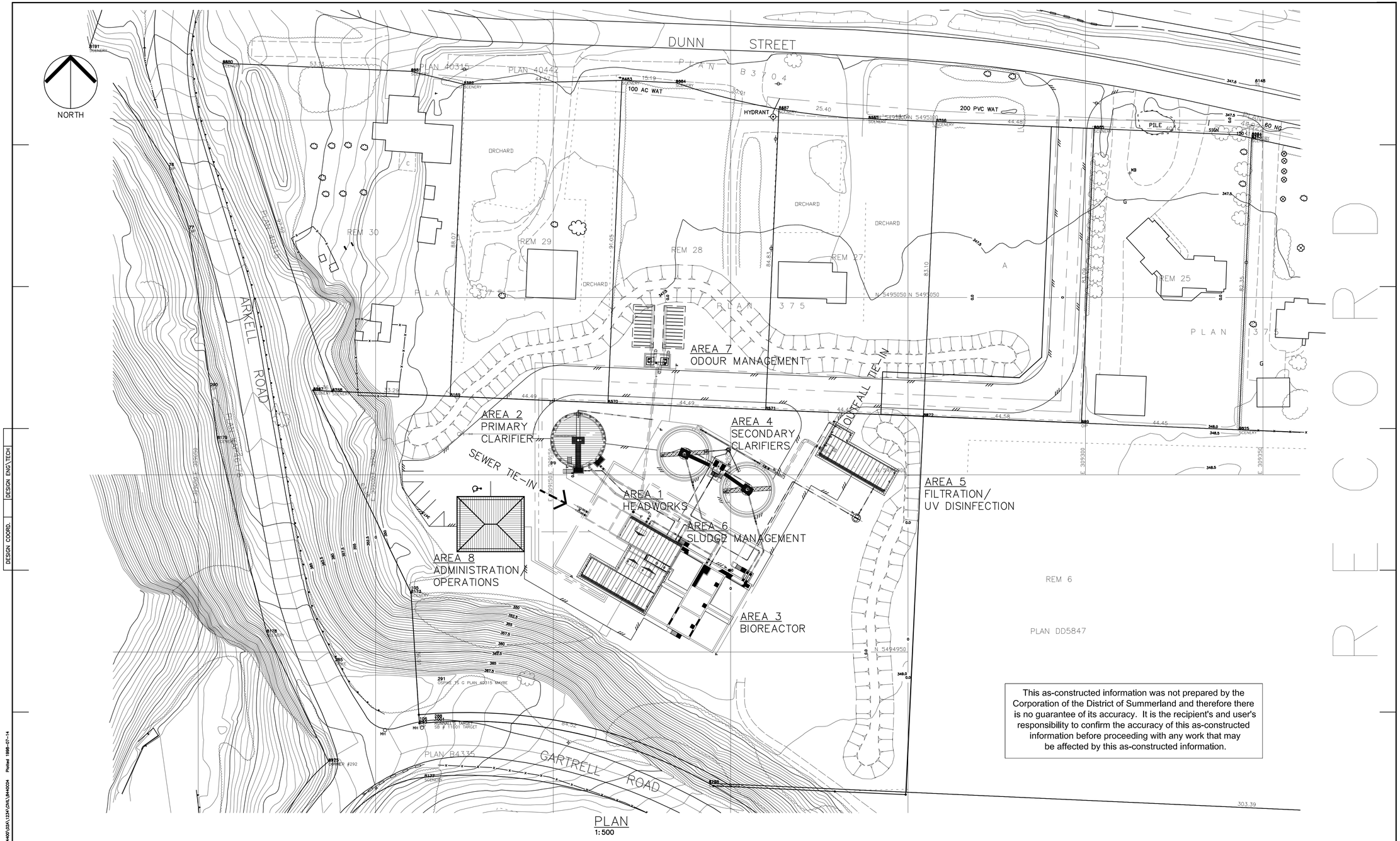
Design
Drawn KJW/MOT
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 0 – GENERAL SITE
CIVIL
STANDARD DETAILS

Reid Crowther 39844

Scale AS NOTED
Date JULY 1996
City File
Sheet of
Drawing 0C03

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 5



PLAN
1:500

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RECORD

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
6	28MAY97	KJW	APPROVED FOR CONSTRUCTION, C.O. 4	MHC					
5	25FEB97	KJW	ISSUED FOR CONSTRUCTION	MHC					
4	14FEB97	KJW	WORK IN PROGRESS V.2 (PARKING/ACCESS)	MHC					
3	11DEC96	KJW	WORK IN PROGRESS V.1 (SEC. CLAR. UPDATE)	MHC					
2	AUG 96	KJW	ADDENDUM 1 – ACCESS ROAD LOCATION	MHC					
1	JULY 96	KJW	ISSUED FOR GMP TENDER	MHC	7	MAY98	ER	RECORD DRAWING	KJW

Design
Drawn KJW
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT

Reid Crowther
39844

BASE COMPOSITE PLAN

Scale
Date MAY 1996
City File
Sheet of
Drawing 0C04

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 7

DESIGN COORD. | DESIGN ENG\TECH | H:\PROJECTS\DWG\98944001\02A\125#1\DWG\98440C04 Plotted: 1998-07-14 | SWWTPA1

NORTH

GRADE = 1.0%
GRADE = 1.5%
GRADE = 1.1%
GRADE = 1.2%
GRADE = 1.11%
GRADE = 1.0%

347.70
347.40 DW 2
347.15 DW 1
347.40
347.26
347.55
347.82
347.48 DW 3
347.72 DRAINAGE TROUGH
347.95
347.98
347.98
ASPHALT BUMP
347.80
FF=348.100
348.10 DW 4
348.60
348.40
348.35
348.30
348.30
348.40
348.55
348.75
348.26
348.26
348.75
348.26
348.05
347.75
347.80
347.55
FUTURE PARKING AREA
347.50
347.65
FF=347.65
FF=348.50

ENTRANCE
RAMP ENTRANCE
2.0%

8169
8170
8171
8172
768 SCENERY
105 8173 SCENERY
285 SPIKE
291 OSPIKE TS G PLAN 40315 MAYBE
106 292 OP MH
288 1001 RONNALLS TARGET SB # 11001 TARGET
MH

33.29
44.49
44.49
44.47
84.52

E 309100
E 309150
E 309200
N 5495000
N 5494950

0.0
0
349.0

DW 1 N= 5495005.449 E= 309119.333
DW 2 N= 5495018.330 E= 309141.619
DW 3 N= 5494997.949 E= 309150.000
DW 4 N= 5494980.495 E= 309200.837

RECORD

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No.	Date	By	Revision	Chkd
6	MAY98	ER	RECORD DRAWING	KJW
5	28MAY97	KJW	APPROVED FOR CONSTRUCTION, C.O. 4	MHC
4	24MAR97	KJW	FOR CONSTRUCTION (DRAINAGE TROUGH)	MHC
3	20FEB97	KJW	FOR CONSTRUCTION (SITE/ROAD GRADES)	MHC
2	AUG 96	KJW	ADDENDUM 1 – ACCESS ROAD ADDED	MHC
1	JULY 96	KJW	ISSUED FOR GMP TENDER	MHC

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Design	MHC
Drawn	KJW/MOT
Checked	
Submitted	
Approved	

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT

Reid Crowther 39844

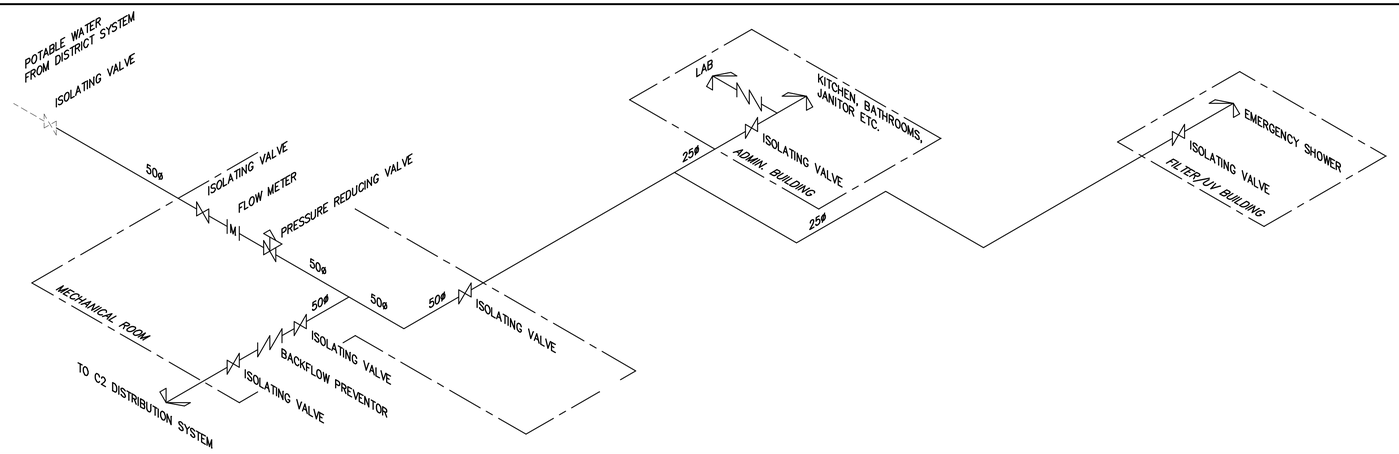
SITE ACCESS

Scale	1:250
Date	JAN 1997
City File	
Sheet	of
Drawing	0C05

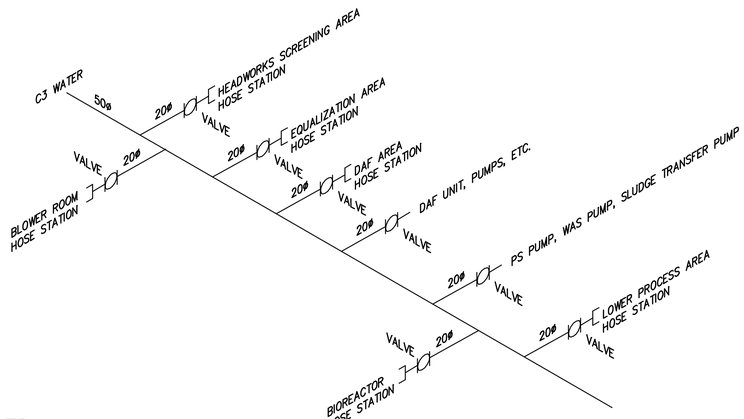
SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 6

DESIGN COORD. | DESIGN ENG\TECH

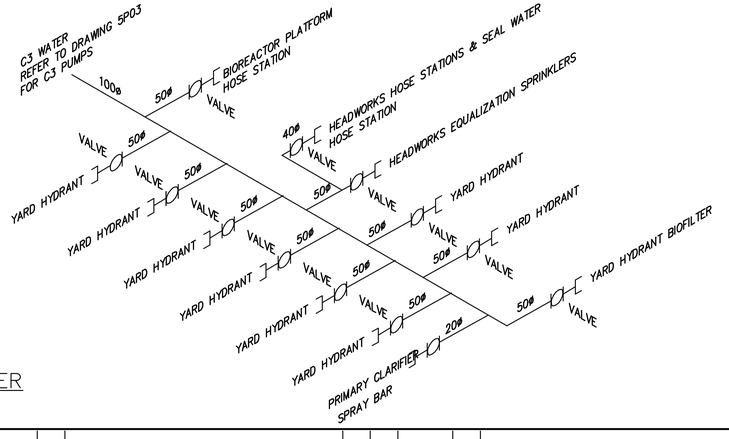
SWWTPA1 H:\PROJECTS\DWG\39844\00\A\1\ASH\DWN\39440205 Plotted 1998-07-14



C1 – POTABLE WATER



C3 – SERVICE WATER – RECYCLED



C3 – RECYCLED EFFLUENT WATER

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
5	MAY98	ER	RECORD DRAWING	KJW					
4	28MAY97	KJW	APPROVED FOR CONSTRUCTION, C.O. 4	CGL					
3	25FEB97	KJW	ISSUED FOR CONSTRUCTION (EQ C2&C3 WATER)	CGL					
2	09DEC96	KJW	WORK IN PROGRESS V.1 (LAB BACKFLOW)	CGL					
1	JULY 96	KJW	ISSUED FOR GMP TENDER	CGL					

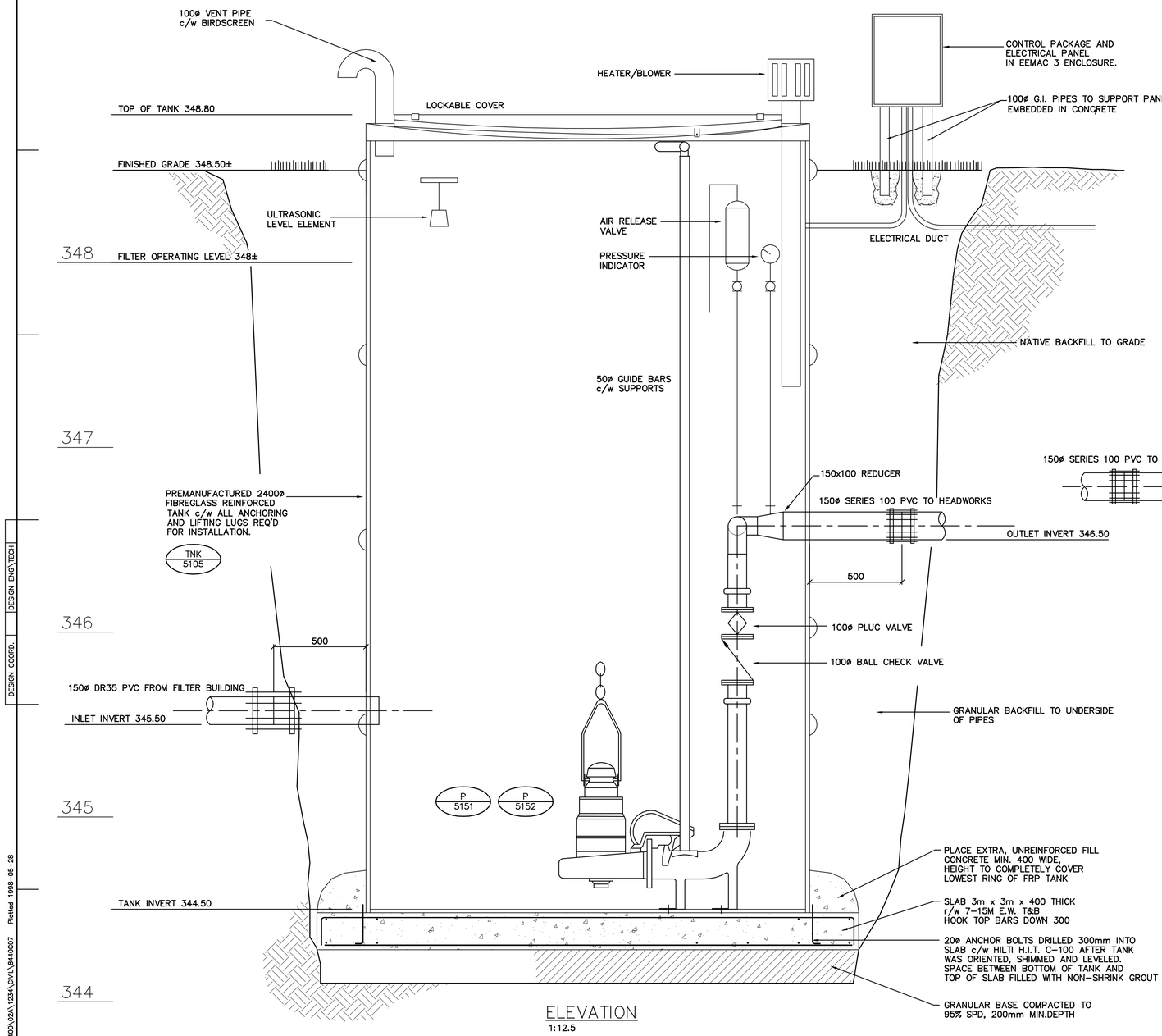
Design KJW
Drawn KJW
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 0 – GENERAL SITE
Reid Crowther 39844
CIVIL
WATER DISTRIBUTION SCHEMATIC

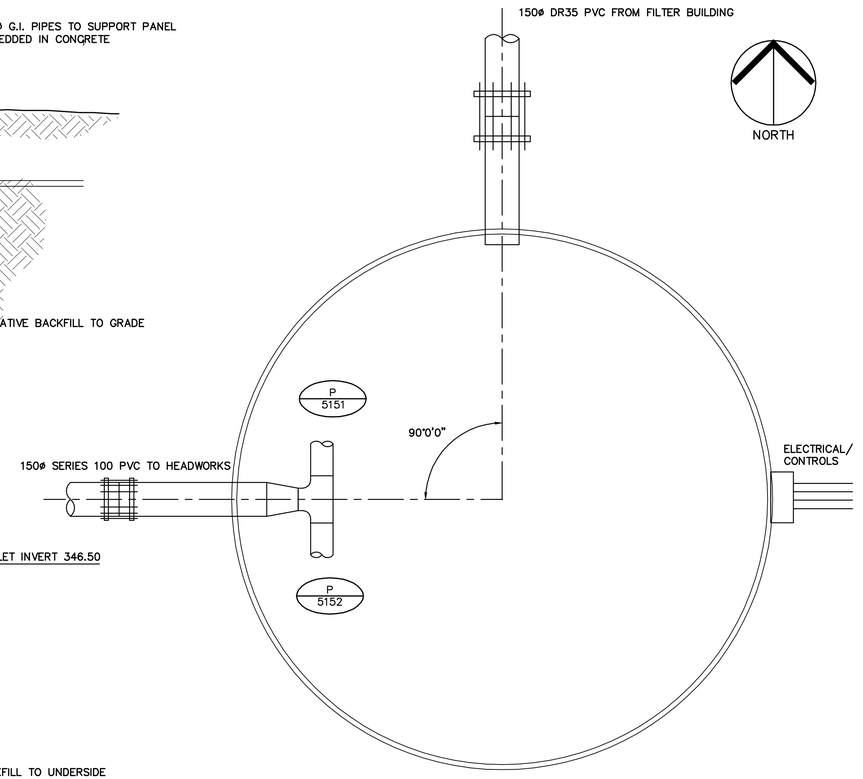
Scale NONE
Date JULY 1996
City File
Sheet of
Drawing 0C06

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 5

DESIGN COORD. | DESIGN ENG\TECH
SWWTPA1 H:\PROJECTS\DWG\03984400\00A\123A\CIVIL\8440C06 Plotted 1998-07-14



ELEVATION
1:12.5



PIPE LOCATION PLAN
1:12.5

RECORD

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
5	MAY98	ER	RECORD DRAWING	KJW					
4	28MAY97	KJW	APPROVED FOR CONSTRUCTION, C.O. 4	CGL					
3	25FEB97	KJW	ISSUED FOR CONSTRUCTION	CGL					
2	29NOV96	KJW	WORK IN PROGRESS V.1 (PIPE CONNECTIONS)	CGL					
1	JULY 96	KJW	ISSUED FOR GMP TENDER	MHC					

Design KJW
Drawn KJW
Checked
Submitted
Approved

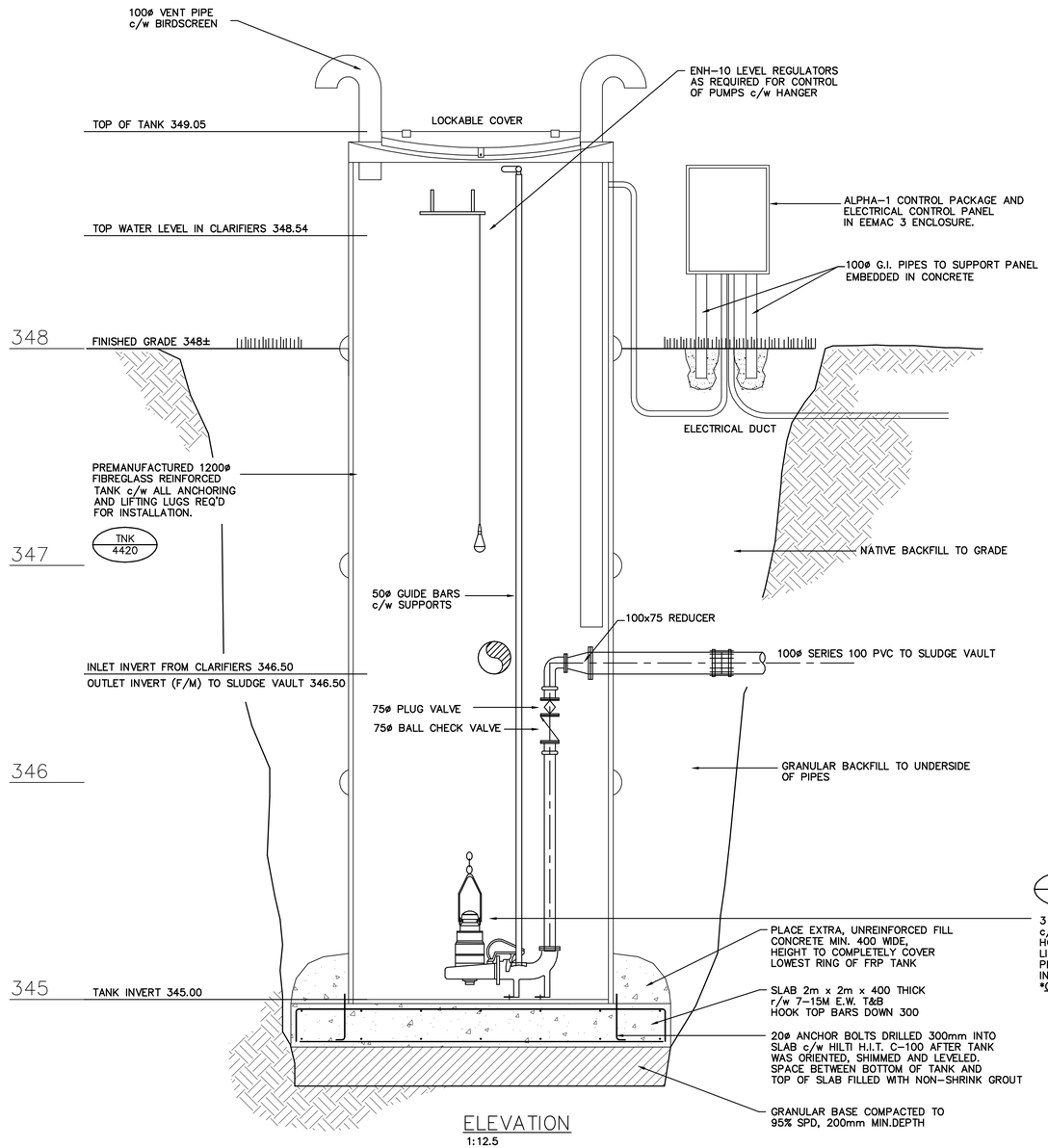
THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 0 – GENERAL SITE
CIVIL
PACKAGED DUPLEX LIFT STATION

Reid Crowther 39844

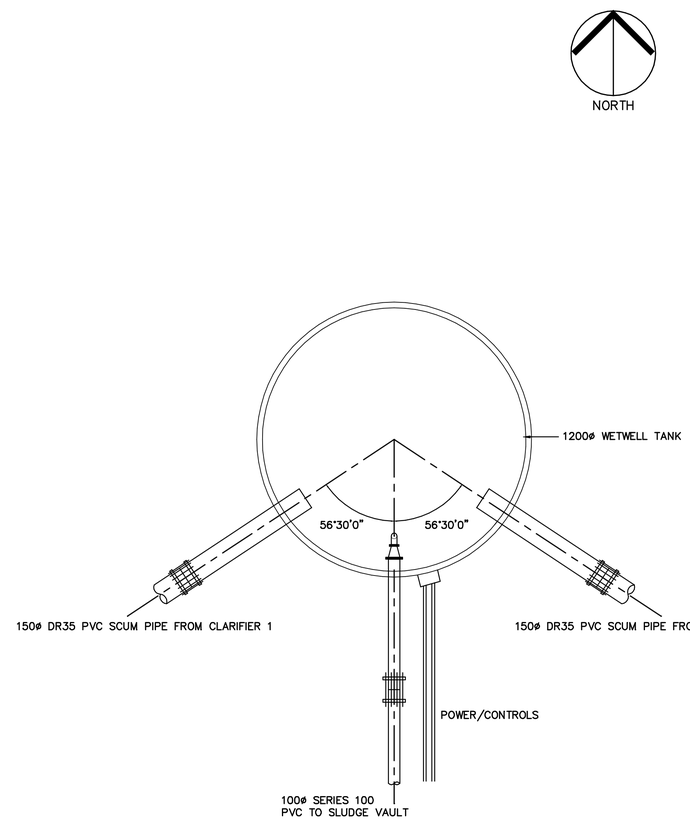
Scale NONE
Date JULY 1996
City File
Sheet of
Drawing 0C07

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 5

DESIGN COORD. | DESIGN ENG\TECH
SWWTP A1 H:\PROJECTS\ENV.0398400\02A\1234\CIVIL\8440C07 Plotted 1998-05-28



ELEVATION
1:12.5



PIPE LOCATION PLAN
1:12.5

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
5	MAY98	ER	RECORD DRAWING	KJW					
4	28MAY97	KJW	APPROVED FOR CONSTRUCTION, C.O. 4	CGL					
3	25FEB97	KJW	ISSUED FOR CONSTRUCTION	CGL					
2	29NOV96	KJW	WORK IN PROGRESS V.1 (PIPE CONNECTIONS)	CGL					
1	JULY 96	KJW	ISSUED FOR GMP TENDER	MHC					

Design KJW
Drawn KJW
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 0 – GENERAL SITE
Reid Crowther 39844

CIVIL
PACKAGED SIMPLEX LIFT STATION

Scale NONE
Date JULY 1996
City File
Sheet of
Drawing 0C08

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 5

DESIGN ENG\TECH
DESIGN COORD.
SWWTPA1 H:\PROJECTS\ENV\03984401\02A\123A\CIVIL\9440C08 Plotted 1998-07-14

RECORD

NORTH

768
SCENERY

8169

8170

8171

8172

200 WATER

INFLUENT FORCEMAIN

600 OUTFALL

ELECTRICAL/TELEPHONE
NATURAL GAS

GAS METER

TIE-IN TO OUTFALL PIPE
(NOT IN THIS CONTRACT)

FIRE HYDRAUL

250-FA-7020

100ø C3

500-FA-7100

450-PE-3005

50ø C3

25ø C1

50 STOP & DRAIN

150-PS-2021

450-PI-2005

TIE-IN TO INFLUENT
SEWER SYSTEM
(NOT IN THIS CONTRACT)

50ø WATER SERVICE

25 NG SERVICE

100ø SAN

300-MI-4200

100-SW-4490

200-RAS-3000

750-SE-5000

100-CS-5225

150-FBW-1016

300-MI-4300

300-PI-3015

1
0C03

2
0P03

E 5309150

E 5309100

N 5494950

N 5494920

105
8173
SCENERY

285
SPIKE

291
OSPIKE TS G PLAN 40315 MAYBE

106
293
288
1001
RUNNALLS TARGET
SB # 11001 TARGET

MH

84.52

350
352.5
355
357.5
360
362.5
365
367.5

PLAN
1:250

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RECORD

DESIGN COORD. | DESIGN ENG\TECH

SWWTP.A1 H:\PROJECTS\DWG\0394400\DGN\[SPY.DGN]L3944009 Plotted: 1998-05-28

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
6	3JUNE97	KJW	APPROVED FOR CONSTRUCTION, C.O. 4	MHC					
5	6MAY97	KJW	ISSUED WITH CCN 2 (FA PIPING)	MHC					
4	12MAR97	KJW	ISSUED FOR CONSTRUCTION (C3 REVISIONS)	MHC					
3	20FEB97	KJW	ISSUED FOR CONSTRUCTION (EQ/YARD REVISION)	MHC					
2	AUG 96	KJW	ADDENDUM 1 – ACCESS ROAD AND UTILITIES	MHC					
1	JULY 96	KJW	ISSUED FOR GMP TENDER	MHC	7	MAY 98	ER	RECORD DRAWING	KJW

Design	KJW
Drawn	KJW
Checked	
Submitted	
Approved	

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT

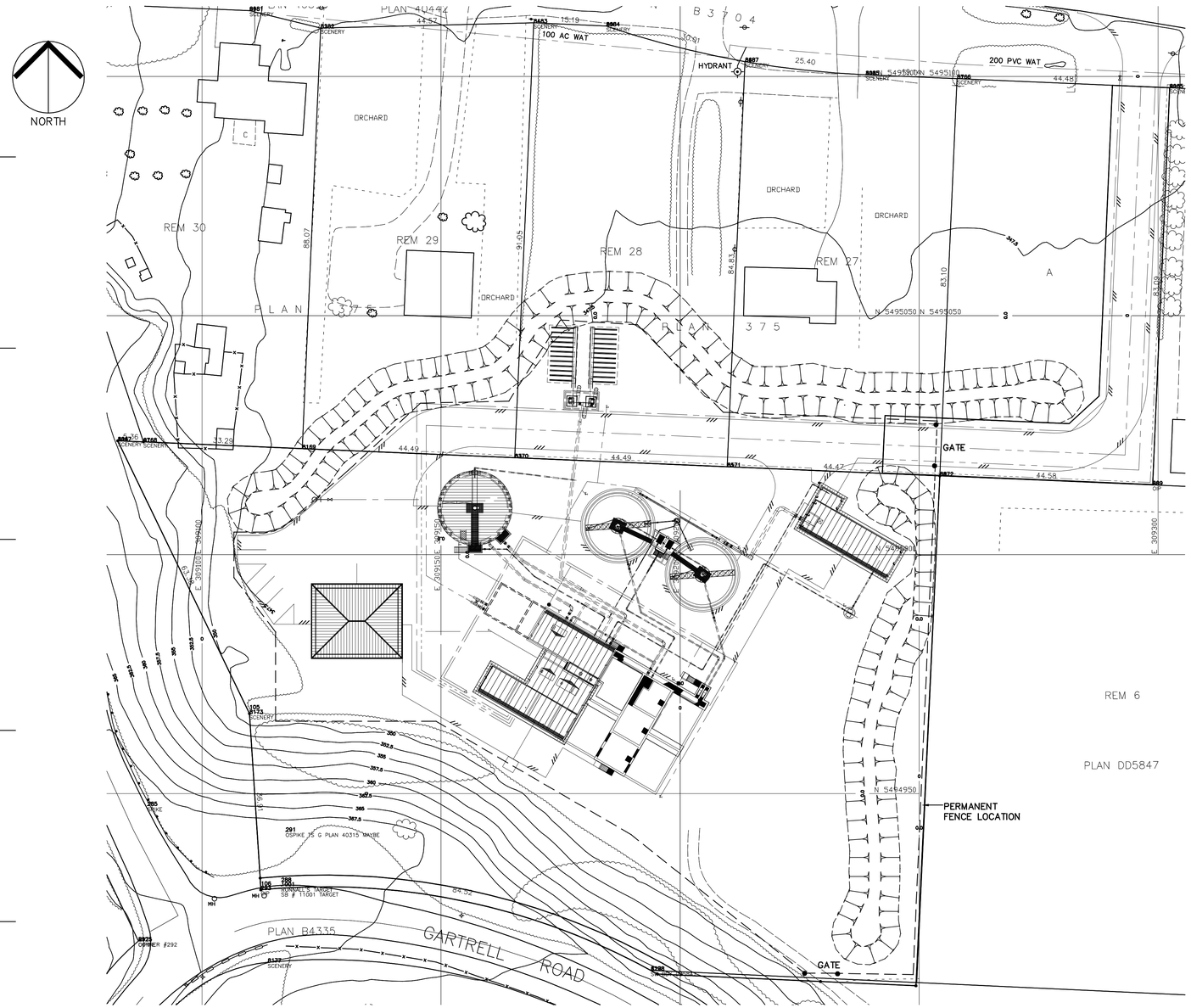
Reid Crowther
39844

YARD PIPING

Scale	
Date	JULY 1996
City File	
Sheet	of
Drawing	0C09

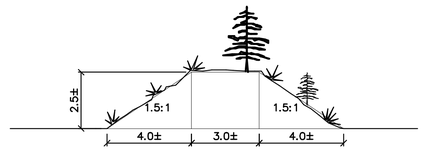
SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO →

7



BERM AND FENCING CONFIGURATION

1:1000



TYPICAL BERM CROSS-SECTION

NTS

RECORD

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
5	19 MAY 98	GDB	RECORD DRAWING	KJW					
4	28MAY97	KJW	APPROVED FOR CONSTRUCTION, C.O. 4	MHC					
3	25FEB97	KJW	ISSUED FOR CONSTRUCTION	MHC					
2	AUG 96	KJW	ADDENDUM 1 – REVISED TO SUIT ACCESS ROAD	MHC					
1	JULY 96	KJW	ISSUED FOR GMP TENDER	MHC					

Design KJW
Drawn KJW
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT

Reid Crowther
39844

LANDSCAPING AND FENCING

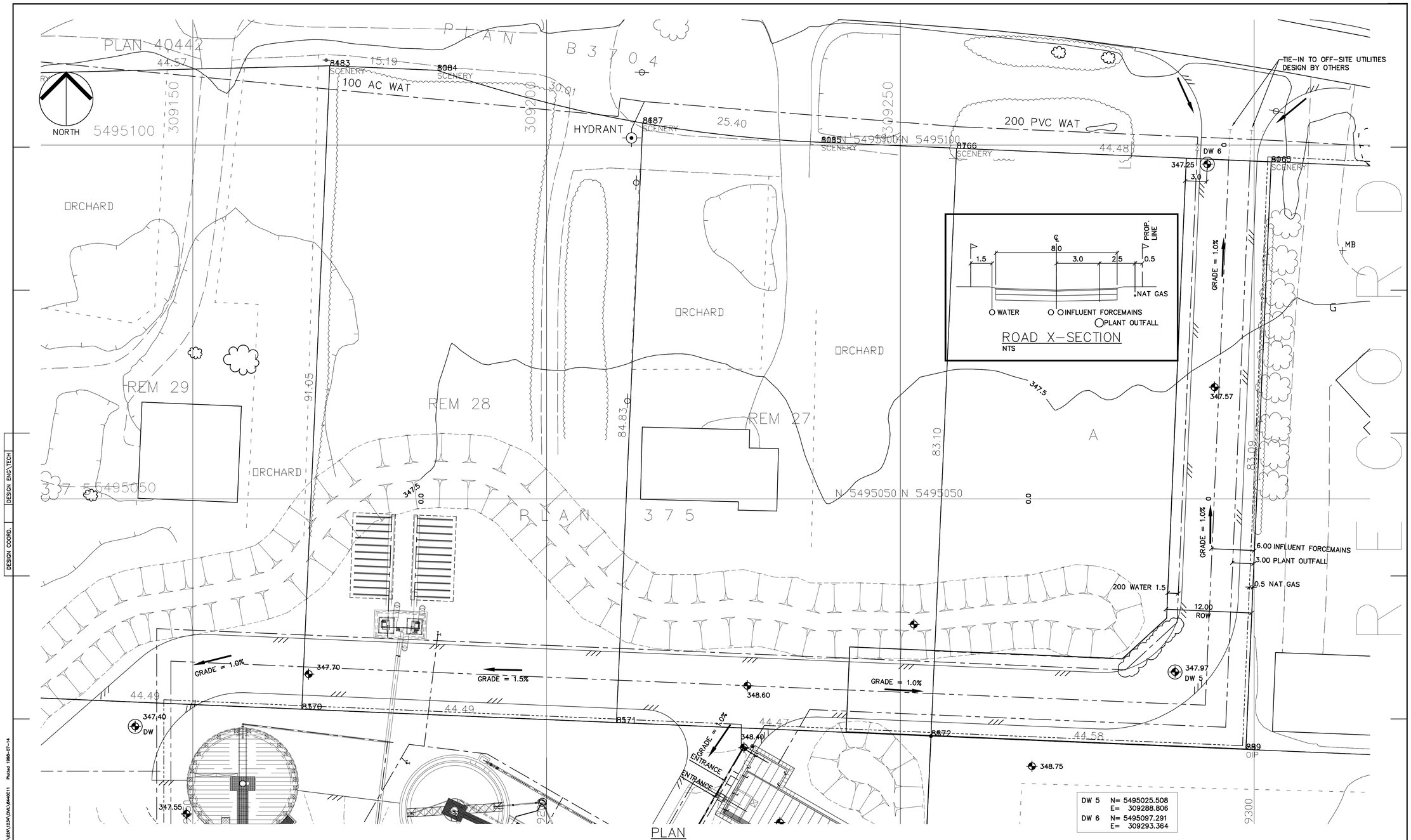
Scale
Date
City File
Sheet of
Drawing OC10

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO →

5

DESIGN COORD. | DESIGN ENG\TECH

SWWTP.A1 H:\PROJECTS\DWG\39844400\DGN\1234\DWL\844010 Plotted 1998-07-14



PLAN
1: 250

THESE RECORD DRAWINGS HAVE BEEN PREPARED ON THE BASIS OF INFORMATION COMPILED AND FURNISHED BY OTHERS. AS A RESULT THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT.

No.	Date	By	Revision	Chkd
6	19 MAY 98	GDB	RECORD DRAWING	KJW
5	28MAY97	KJW	APPROVED FOR CONSTRUCTION, C.O. 4	MHC
4	15APR97	KJW	FOR CONSTRUCTION (WAT/SAN UTILITY ROUTES)	MHC
3	20FEB97	KJW	FOR CONSTRUCTION (ROAD GRADES)	MHC
2	12DEC96	KJW	WORK IN PROGRESS V.1 (BERM LOCATION)	MHC
1	AUG 96	KJW	ADDENDUM 1 – ACCESS ROAD	MHC

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Design	MHC/KJW
Drawn	KJW/MOT
Checked	
Submitted	
Approved	

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT

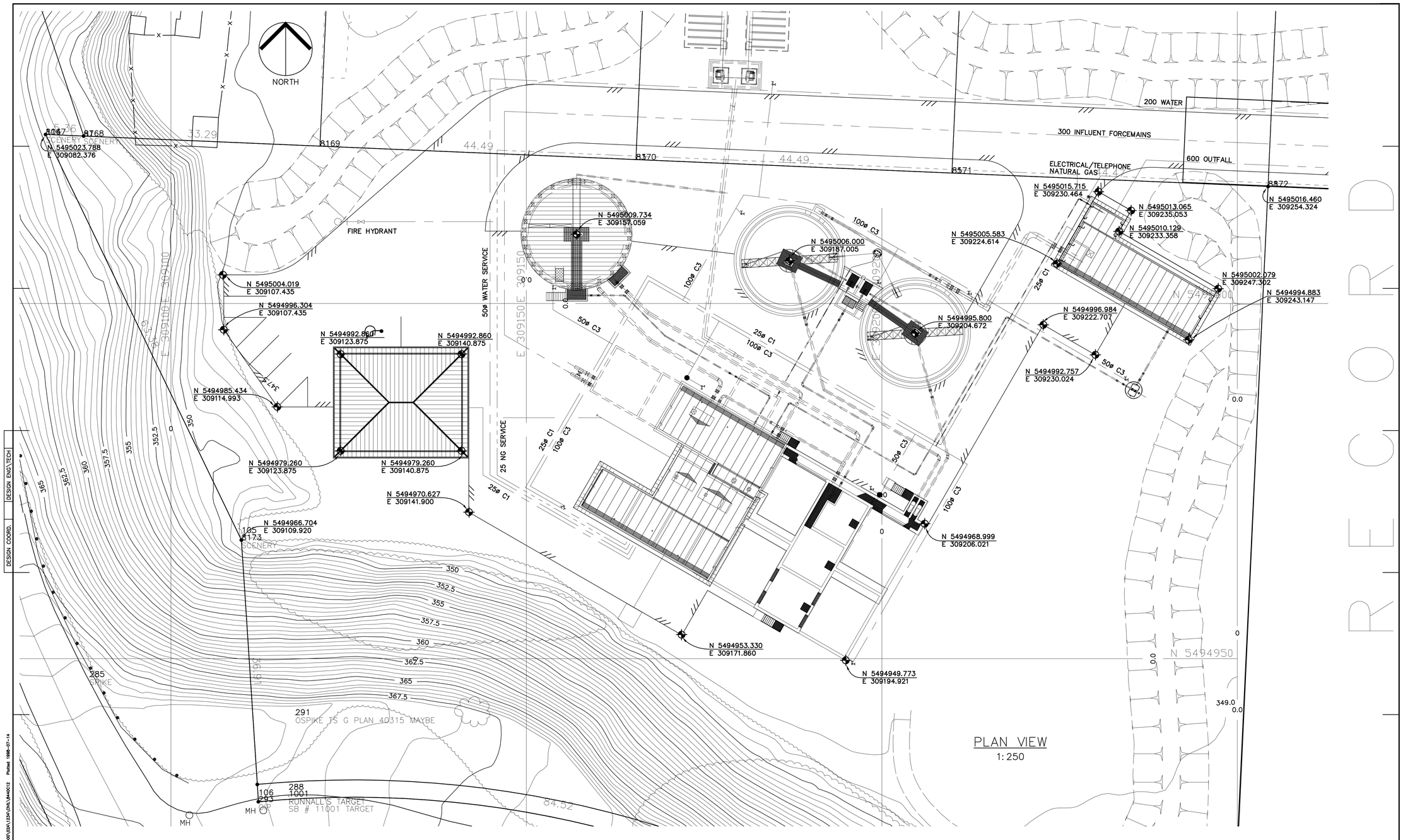
Reid Crowther
39844

SITE ACCESS

Scale	
Date	JAN 1997
City File	
Sheet	of
Drawing	OC11

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 6

DESIGN ENG\TECH | DESIGN COORD. | SWWTP.A1 H:\PROJECTS\DWG\39844\DWG\ASP\DWG\39440211 Plotted: 1998-07-14



PLAN VIEW
1:250

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No.	Date	By	Revision	Chkd
6	19 MAY 98	GDB	RECORD DRAWING	KJW
5	28MAY97	KJW	APPROVED FOR CONSTRUCTION, C.O. 4	MHC
4	25FEB97	KJW	ISSUED FOR CONST. – PARKING/ADMIN.	MHC
3	25FEB97	KJW	FOR CONST. – SITE PREP. SC/PC/BIO C.O. 1	MHC
2	11DEC96	KJW	ISSUED FOR CONST. – EXCAVATION OF SC	MHC
1	NOV 96	KJW	ISSUED FOR CONST. – SITE PREP. SC/PC/BIO	MHC

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Design	KJW
Drawn	KJW/MOT
Checked	
Submitted	
Approved	

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT

AA

LAYOUT COORDINATES

Reid Crowther
39844

Scale	1:250
Date	NOV 96
City File	
Sheet	of
Drawing	OC12

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 6

DESIGN ENG\TECH
DESIGN COORD.
SWWTPA1 H:\PROJECTS\DWG\39844\OPA\OPA\39844C12 Plotted 1998-07-14

RECORD

PLAN
1:500

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
4	19 MAY 98	GDB	RECORD DRAWING	KJW					
3	28MAY97	KJW	APPROVED FOR CONSTRUCTION, C.O. 4	MHC					
2	25FEB97	KJW	ISSUED FOR CONSTRUCTION	MHC					
1	8JAN97	KJW	ISSUED FOR PERMITS	MHC					

Design
Drawn KJW
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT

Reid Crowther
39844

STRUCTURE SETBACKS

Scale
Date JAN 1997
City File
Sheet of
Drawing OC13

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 4

DESIGN ENG\TECH
DESIGN COORD.
SWWTPA1 H:\PROJECTS\DWG\0394400\DGN\ISPA\DWG\3944013 Plotted: 1998-07-14

COORD

ONE LINE

- LOAD BREAK SWITCH
- UNFUSED DISCONNECT SWITCH
- FUSED CUTOUT SWITCH
- FUSED DISCONNECT SWITCH
- DISTRIBUTION TRANSFORMER
- DRAW OUT CIRCUIT BREAKER
- CIRCUIT BREAKER
- CIRCUIT BREAKER C/W CURRENT LIMITERS
- 52 / 800A — POWER CIRCUIT BREAKER C/W FRAME SIZE INDICATION
- LIGHTNING ARRESTER
- SURGE ARRESTER
- 3 / 400/5 — CURRENT TRANSFORMER C/W RATIO AND QUANTITY
- ZSCT — ZERO SEQUENCE CURRENT TRANSFORMER
- 2 / 480V/120V — POTENTIAL TRANSFORMER C/W VOLTAGE RATIO AND QUANTITY
- A / 0-400A — METER C/W SWITCH V-VOLTAGE, A-AMP, PF-POWER FACTOR, KW(H)-KILOWATT (HOUR), ETM-ELAPSED TIME
- CONTACT
- THERMAL OVERLOAD DEVICE
- 5 — CAPACITOR C/W KVAR RATING
- FUSE
- SPECIAL OUTLET
- STAB TYPE DISCONNECT
- 10 HP / 7.5 KW — ELECTRIC MOTOR C/W KW OR HP RATING
- 3 PHASE GENERATOR
- TERMINAL
- CABLE TERMINATION
- WEATHERHEAD
- BUS BAR WITH CONNECTION

3 PHASE TRANSFORMER CONNECTION SYMBOLS

- DELTA
- WYE OR STAR WITH SOLID GROUNDED NEUTRAL
- 5A — WYE OR STAR WITH RESISTANCE GROUNDED NEUTRAL AND MAXIMUM CURRENT INDICATOR

LINE SYMBOLS

- CONDUCTOR
- UNDERGROUND CONDUCTOR
- TRIPPING OR INTERLOCKING CIRCUIT
- EQUIPMENT OUTLINE
- K — KEY INTERLOCKING

SWITCHGEAR DEVICE NUMBER AND FUNCTIONS

- (27) AC UNDERVOLTAGE
- (32) DIRECTIONAL POWER RELAY
- (40) LOSS OF FIELD PROTECTION RELAY
- (46) PHASE BALANCE CURRENT RELAY
- (47) PHASE SEQUENCE RELAY
- (48) INCOMPLETE SEQUENCE RELAY
- (49) AC THERMAL OVERLOAD RELAY
- (50) AC INSTANTANEOUS OVERCURRENT RELAY
- (51) AC TIME DELAY OVERCURRENT RELAY
- [52] AC CIRCUIT BREAKER
- (59) AC OVERVOLTAGE RELAY
- (78) PHASE ANGLE MEASURING RELAY
- (81) UNDERFREQUENCY RELAY
- (86) LOCKOUT RELAY
- (87) DIFFERENTIAL CURRENT RELAY

SPECIALIZED RELAY FUNCTIONS ARE INDICATED BY A LETTER SUFFIX. e. g.
S – STALL. G – GROUND. T – TEMPERATURE.

- XX / XX — EXAMPLE OF MULTIPLE FUNCTION RELAY DESIGNATION
- or — RESISTOR
- THERMISTOR

SCHEMATIC

- CR 284 — CONTROL RELAY 284 (TYP.) COIL
- M — MOTOR CONTROL RELAY (TYP.) COIL
- TD — TIME – DELAY RELAY (TYP.) COIL
- N.O. CONTACT
- N.C. CONTACT
- TIME DELAY CLOSE ON ENERGIZE
- TIME DELAY OPEN ON ENERGIZE
- TIME DELAY OPEN ON DE–ENERGIZE
- TIME DELAY CLOSE ON DE–ENERGIZE
- LEVEL SWITCH (N.C.)
- LEVEL SWITCH (N.O.)
- FLOW SWITCH (N.C.)
- FLOW SWITCH (N.O.)
- PRESSURE SWITCH (N.C.)
- PRESSURE SWITCH (N.O.)
- TEMPERATURE SWITCH (N.C.) — OOHT
- TEMPERATURE SWITCH (N.O.)
- VIBRATION SWITCH (N.C.)
- VIBRATION SWITCH (N.O.)
- LIMIT SWITCH (N.C.)
- LIMIT SWITCH (N.O.)

SWITCH FUNCTION DESCRIPTOR, PLACED BELOW SWITCH SYMBOL
FIRST LETTER: C (CLOSE) OR O (OPEN)
SECOND LETTER: O (ON)
THIRD LETTER: H (HIGH) OR L (LOW) OPTIONAL
FOURTH LETTER: VARIABLE, e.g. L (LEVEL), P (PRESSURE), ETC.

- MOMENTARY PUSHBUTTON (N.C.)
- MOMENTARY PUSHBUTTON (N.O.)
- 2 POSITION MAINTAINED SELECTOR SWITCH
- (XXX) O H A — 3 POSITION MAINTAINED SELECTOR SWITCH
- FUSE
- BREAKER
- PANEL WIRING
- FIELD WIRING
- CONTROL PANEL TERMINAL
- MCC TERMINAL
- FIELD TERMINAL
- SWITCHGEAR
- EQUIPMENT CONTROL PANEL
- FIELD JUNCTION BOX TERMINAL

LAYOUT

IF REQUIRED, USE NUMBER OR LETTERS INSIDE SYMBOL, EXAMPLE

- A — MCC "A"
- 2 — FIELD TERMINATION PANEL "2"

LIGHTING

- INCANDESCENT OR H.I.D FIXTURE : RECESSED
- INCANDESCENT OR H.I.D FIXTURE : CEILING MOUNTED
- INCANDESCENT OR H.I.D FIXTURE : WALL MOUNTED
- EXTERIOR POLE MOUNTED LIGHT FIXTURE
- CEILING MTD. EXIT LIGHT – DIRECTIONAL ARROWS AS INDICATED
- WALL MTD. EXIT LIGHT – DIRECTIONAL ARROWS AS INDICATED
- FLUORESCENT FIXTURE – SURFACE MOUNTED
- FLUORESCENT FIXTURE – RECESSED
- PC — PHOTO – ELECTRIC CELL
- TC — TIME –CLOCK
- BATTERY PACK C/W HEADS AS INDICATED
- SINGLE POLE SWITCH
- 3 — THREE WAY SWITCH
- P — SWITCH & PILOT LIGHT
- K — KEY SWITCH
- DIMMER SWITCH
- LOW VOLTAGE SWITCH
- M — LOW VOLTAGE MASTER SWITCH

CONDUIT AND WIRE

- CONDUIT STUB
- HOME RUN WITH WIRE COUNT
- THREE PHASE : 1 NEUTRAL : 1 GROUND
- VERTICAL LEVEL CHANGE (ON PLAN) OR RECEEDING CONDUIT (ON ELEVATION)
- CONDUIT FITTING
- CONDUIT BREATHER/DRAIN
- CONDUIT SEAL
- CONDUIT DRAIN SEAL
- CONDUIT CAP
- CONDUIT CONCEALED IN WALL OR DROPPED CEILING
- CONDUIT RUN IN FLOOR OR BELOW GRADE
- OVERHEAD POWER LINES
- CONDUIT RUN EXPOSED
- E.C. — EMPTY CONDUIT
- GROUND ROD C/W WELL
- GROUND ROD WITHOUT WELL
- GROUND CONDUCTOR
- GROUND CONNECTION

POWER

- J — JUNCTION BOX
- SINGLE RECEPTACLE
- DUPLEX RECEPTACLE
- SPLIT –WIRED DUPLEX RECEPTACLE
- ISOLATED GROUND RECEPTACLE
- GF — GROUND FAULT RECEPTACLE
- SPECIAL RECEPTACLE – AS NOTED
- VERTICAL WIREWAY
- G.F. GROUND FAULT
- W.P. WEATHERPROOF
- MOTOR
- DISCONNECT
- M — MANUAL MOTOR SWITCH C/W PILOT LIGHT
- MAGNETIC MOTOR STARTER
- COMBINATION MAGNETIC MOTOR STARTER
- C — MAGNETIC CONTACTOR
- PUSH BUTTON STATION
- T — THERMOSTAT
- PS / 146A — FIELD CONTROL DEVICE C/W TAG NO. (INSIDE BALLOON)
- T — 120VAC SUPPLY TO INSTRUMENT C/W WP DISCONNECT SWITCH

PANELS

- PANEL 120/208V
- PANEL 347/600V
- TELEPHONE PANEL
- MISCELLANEOUS CABINETS AS INDICATED

COMMUNICATIONS AND SECURITY

- T.V. OUTLET
- TELEPHONE OUTLET : WALL MOUNTED
- COMPUTER TERMINAL OUTLET

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Design KM
Drawn KM
Checked
Submitted
Approved

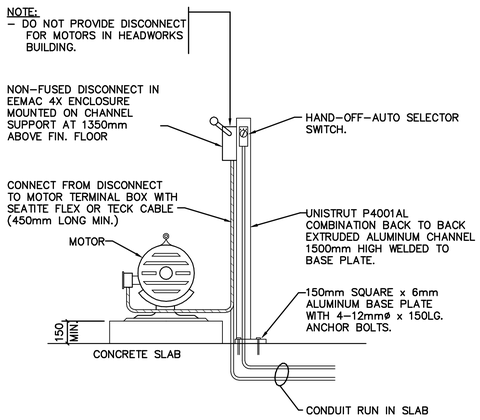
THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 0 – GENERAL
Reid Crowther 39844

STANDARD ELECTRICAL DETAILS
LEGEND AND STANDARD DETAILS

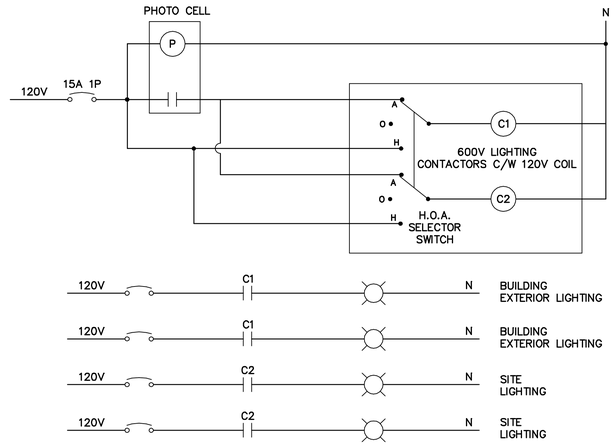
Scale NTS
Date JULY 1996
City File
Sheet of
Drawing 0E01

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 4

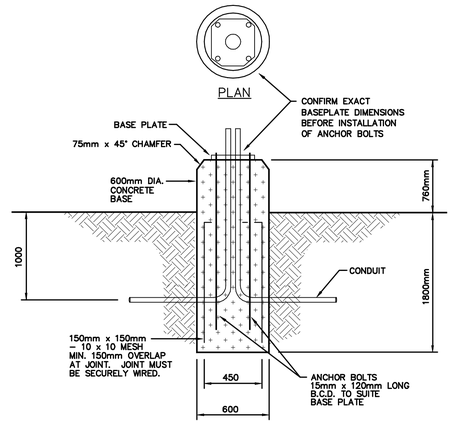
DESIGN ENG\TECH
DESIGN COORD.
H:\PROJECTS\DWV\039844\00\09A\123A\ELEC\844E01 Plotted 1998-07-17
SWWTPA1



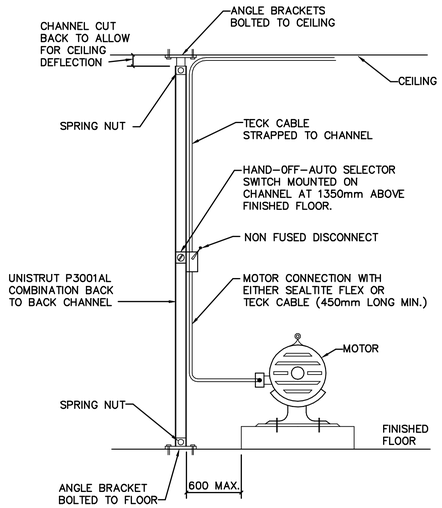
1 / 0E02 TYPICAL PROCESS MOTOR CONNECTION DETAIL
SCALE NTS



3 / 0E02 EXTERIOR LIGHTING CONTROLS DETAIL
SCALE NTS



5 / 0E02 POLE BASE DETAIL
SCALE NTS



2 / 0E02 TYPICAL PROCESS MOTOR CONNECTION DETAIL
SCALE NTS

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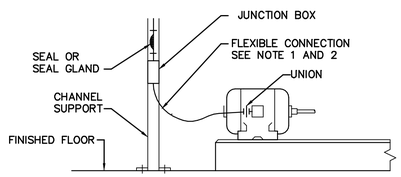
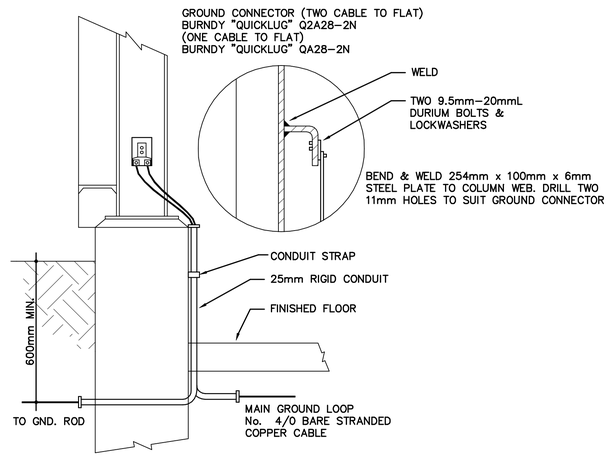


3ø MOTOR CONNECTION

NOTE:
1. DIV.1. LOCATION – USE EXPLOSION PROOF FLEX.
2. DIV.2. LOCATION – USE LIQUID TIGHT FLEX.
3. ALL DEVICES TO BE APPROVED FOR CLASS 1 DIV. 2 CLASSIFICATION.

4 / 0E02 TYPICAL MOTOR CONNECTIONS(CLASS I DIV. 2)
SCALE NTS



6 / 0E02 TYPICAL GROUNDING FOR STEEL COLUMNS & EQUIPMENT
SCALE NTS

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1	JULY 96	KM	ISSUED FOR GMP TENDER	KHM					

Design KM
Drawn KM
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 0 – GENERAL
Reid Crowther 39844

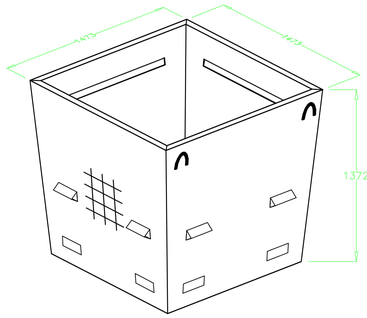
STANDARD DETAILS
ELECTRICAL DETAILS

Scale NTS
Date JULY 1996
City File
Sheet of
Drawing 0E02

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 4

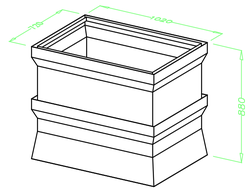
DESIGN ENG\TECH
DESIGN COORD.
SWWTPA1
H:\PROJECTS\EMV\038#400\02A\123A\ELEC\$#40202 Plotted 1998-07-17

A
B
C
D
E



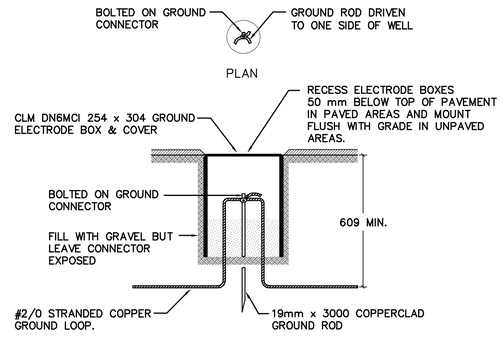
NOTE
REFER TO 'KON KAST' (KELOWNA, B.C.) FOR PULL BOX #1021 C/W #1025 ASSEMBLY DETAILS.

1 / 0E03 MANHOLE FOR POWER&CONTROL
SCALE N.T.S.

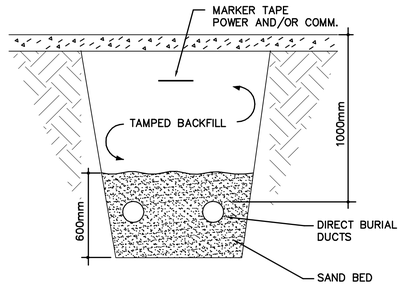


NOTE
REFER TO 'AE' CONCRETE PRECAST (LANGLEY, B.C.) SERVICE BOX 5686. INCLUDE RISER SECTION, METAL LID, AND OTHER REQUIRED MATERIAL.

1A / 0E03 MANHOLE FOR TELEPH. SERVICE
SCALE N.T.S.



3 / 0E03 GROUNDING CONNECTION DETAIL
SCALE N.T.S.



NOTES:
- NUMBER OF DUCTS AND SIZES ARE INDICATED IN DUCT SCHEDULES, DETAIL No. 4/0E03.

2 / 0E03 TYPICAL DUCTBANK DETAIL
SCALE N.T.S.

DUCTBANK #1

POWER	
CONDUIT SIZE	DESCRIPTION
100mm	RW90 CABLE – MAIN POWER FEEDER
100mm	RW90 CABLE – MAIN POWER FEEDER
100mm	RW90 CABLE – MAIN POWER FEEDER
100mm	RW90 CABLE – MAIN POWER FEEDER

DUCTBANK #2

POWER AND INSTRUMENTATION	
CONDUIT SIZE	DESCRIPTION
75mm	TECK CABLE – POWER FEEDERS
75mm	TECK CABLE – POWER BRANCH CIRCUITS
75mm	TECK CABLE – POWER BRANCH & LTG. CIRC.
75mm	SPARE
75mm	CONTROLS AND INSTRUMENTATION CABLING
75mm	CONTROLS AND INSTRUMENTATION CABLING
75mm	CONTROLS AND INSTRUMENTATION CABLING
75mm	SPARE

DUCTBANK #3

POWER AND INSTRUMENTATION	
CONDUIT SIZE	DESCRIPTION
100mm	TECK CABLE – POWER BRANCH CIRCUITS
100mm	TECK CABLE – POWER BRANCH CIRCUITS
100mm	TECK CABLE – POWER BRANCH & LTG. CIRC.
100mm	SPARE
100mm	CONTROLS AND INSTRUMENTATION CABLING
100mm	CONTROLS AND INSTRUMENTATION CABLING
100mm	CONTROLS AND INSTRUMENTATION CABLING
100mm	SPARE

DUCTBANK #4

POWER – HIGH VOLTAGE	
CONDUIT SIZE	DESCRIPTION
75mm	HIGH VOLTAGE CABLE
75mm	HIGH VOLTAGE – SPARE
75mm	TELEPHONE SERVICE

NOTE:
- SEE DRAWING 0E08 FOR LOCATIONS OF DUCTBANK SECTIONS.

4 / 0E03 DUCT SCHEDULES
SCALE N.T.S.

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Design KM
Drawn KM
Checked
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Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 0 – GENERAL
STANDARD DETAILS
ELECTRICAL DETAILS

Reid Crowther 39844

Scale NTS
Date JULY 1996
City File
Sheet of
Drawing 0E03

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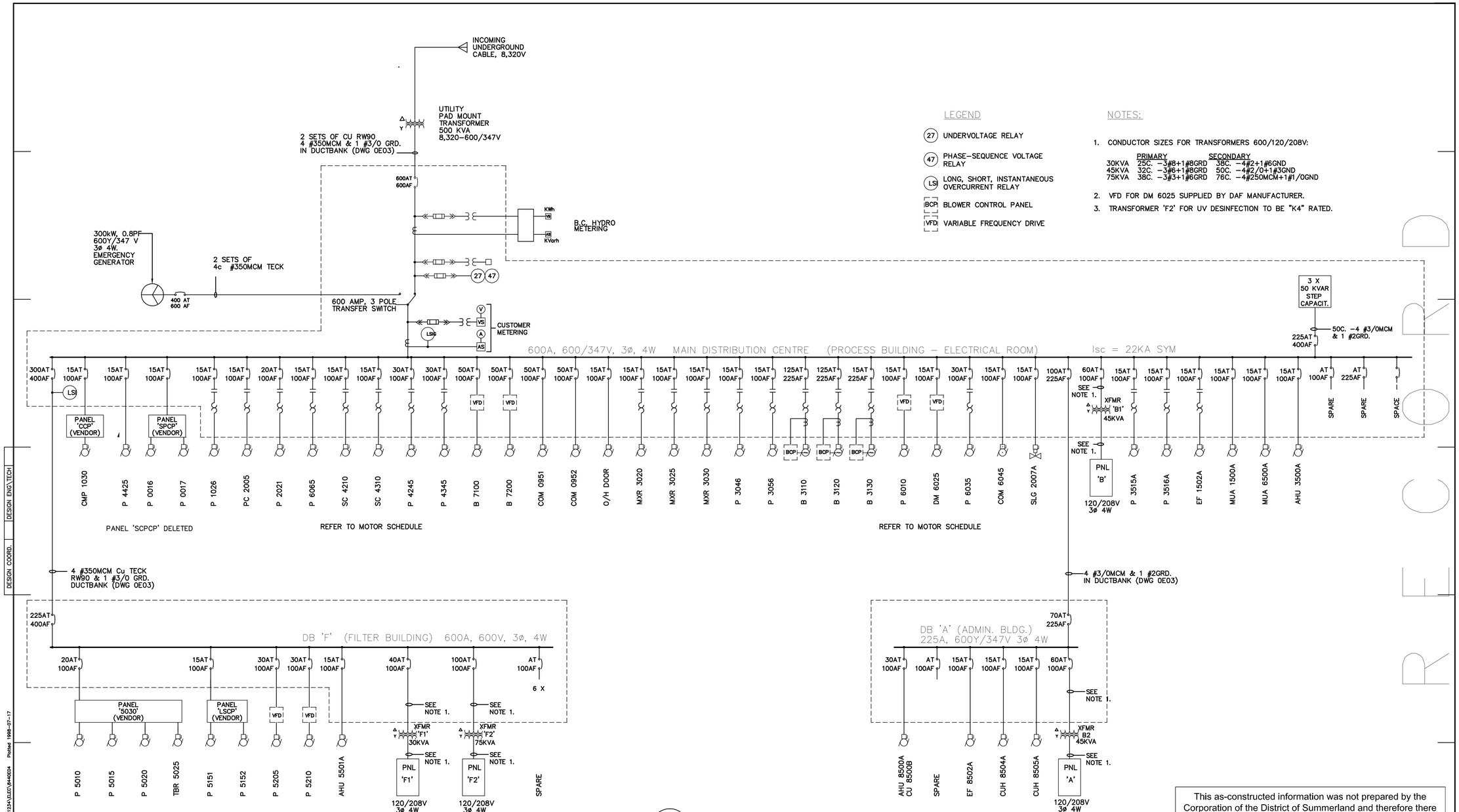
DESIGN COORD. | DESIGN ENG\TECH
H:\PROJECTS\DWG\039844\00\A\12A\GLEE\@844033 Plotted: 1998-07-17
SWWTPA1



LEGEND

- (27) UNDERVOLTAGE RELAY
- (47) PHASE–SEQUENCE VOLTAGE RELAY
- (LS) LONG, SHORT, INSTANTANEOUS OVERCURRENT RELAY
- BCP BLOWER CONTROL PANEL
- VFD VARIABLE FREQUENCY DRIVE

NOTES:

1. CONDUCTOR SIZES FOR TRANSFORMERS 600/120/208V:

	PRIMARY	SECONDARY
30KVA	25C. –3#8+1#8GRD	38C. –4#2+1#6GND
45KVA	32C. –3#6+1#8GRD	50C. –4#2/0+1#3GND
75KVA	38C. –3#3+1#6GRD	76C. –4#250MCM+1#1/0GND

2. VFD FOR DM 6025 SUPPLIED BY DAF MANUFACTURER.
3. TRANSFORMER 'F2' FOR UV DESINFECTION TO BE "K4" RATED.

1 / 0E04 SINGLE LINE DIAGRAM
SCALE NTS

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Design KM
Drawn KM
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THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 0 – GENERAL
SINGLE LINE DIAGRAM

Reid Crowther 39844

Scale NTS
Date JULY 1996
City File
Sheet of
Drawing 0E04

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 4

DESIGN ENG\TECH
DESIGN COORD.
H:\PROJECTS\SWW\03884400\00A\1234\ELEC\844E04 Plotted 1998-07-17
SWWTPA1

Process Load Schedule

Unit No.	Unit Description	Unit Location	Motor Data hp	Volt	Ph	FLA	Breaker Amps	Feeder	Feeder Type (mm)	Starter Location	Type (b)	Size	Control (c)	P.L. (e)	Control Type (d)	Supl'd by (a)	Instl'd by (a)	Wiring by (a)	Notes
	GENERAL																		
COM 0951	AIR COMPRESSOR 1	AREA 0	20	575	3	22	50A 3P	3 #10 +GRD	TECK	MDC				R					1
COM 0952	AIR COMPRESSOR 2	AREA 0	20	575	3	22	50A 3P	3 #10 +GRD	TECK	MDC				R					1
ADR 0955	INSTR. AIR COND. SYSTEM	AREA	N/A	120	1	N/A	15A 1P	2 #12 +GRD	TECK	PNL B									1
P 6065	SLUDGE TRANSFER PUMP	AREA 6	10	575	3	11	20A 3P	3 #12 +GRD	TECK	MDC	Mg	1	HOA	R					2,6
P 5205	RECYCLE WATER PUMP 1	AREA 5	10	575	3	11	30A 3P	3 #12 +GRD	TECK	DB F	VFD	x	HOA	R					2,6
P 5210	RECYCLE WATER PUMP 2	AREA 5	10	575	3	11	30A 3P	3 #12 +GRD	TECK	DB F	VFD	x	HOA	R					2,6
B 7100	BIOFILTER FAN	AREA 7	20	575	3	22	50A 3P	3 #10 +GRD	TECK	MDC	VFD	x	HOA	R					2,6
B 7200	BIOFILTER FAN	AREA 7	20	575	3	22	50A 3P	3 #10 +GRD	TECK	MDC	VFD	x	HOA	R					2,6
	HEADWORKS																		
BSCP	BAR SCREEN CONTROL PNL.	AREA 1		120	1		15A 1P	2 #12 +GRD	TECK	PNL B									1
SCN 1020	BAR SCREEN DRIVE	AREA 1	0.17	120	1	3.8	15A 1P	2 #12 +GRD	TECK	BSCP									3,4,6
CCP	COMPACTOR CONTR. PNL.	AREA 1	1.5	575	3	2.6	15A 3P	3 #12 +GRD	TECK	MDC				R					1
CMP 1030	COMPACTOR	AREA 1	1.5	575	3	2.6	15A 3P	3 #12 +GRD	TECK	CCP									3,5,6
SPCP	SUMP PUMP CONTR. PNL.	AREA 1	4.4	575	3	5.2	15A 3P	3 #12 +GRD	TECK	MDC				R					1
P 0016	SUMP PUMP	AREA 1	2.2	575	3	2.6	15A 3P	3 #12 +GRD	TECK	SPCP				R					3,6
P 0017	SUMP PUMP	AREA 1	2.2	575	3	2.6	15A 3P	3 #12 +GRD	TECK	SPCP				R					3,6
P 1035	EQUALIZATION PUMP 1	AREA 1	5	575	3	6.1	15A 3P	3 #12 +GRD	TECK	MDC				R					3,6
VBA1030A	BALL VALVE ACTUATOR	AREA 1	N/A	575	3	N/A	15A 3P	3 #12 +GRD	TECK	MDC				R					1
	PRIMARY CLARIFIER																		
CM 2005	MECHANISM	AREA 2	0.5	575	3	0.8	15A 3P	3 #12 +GRD	TECK	MDC	Mg	1	HOA	R					2,6
P 2021	PRIMARY SLUDGE PUMP 1	AREA 2	3	575	3	3.9	15A 3P	3 #12 +GRD	TECK	MDC	Mg	1	HOA	R					2,6
VBA2010A	BALL VALVE ACTUATOR	AREA 2	N/A	575	3	N/A	15A 3P	3 #12 +GRD	TECK	MDC				R					1
VBA2020A	BALL VALVE ACTUATOR	AREA 2	N/A	575	3	N/A	15A 3P	3 #12 +GRD	TECK	MDC				R					1
SLG2007A	SLUICE GATE ACTUATOR	AREA 2	N/A	575	3	N/A	15A 3P	3 #12 +GRD	TECK	MDC				R					1
	BIOREACTOR																		
B 3110	AIR BLOWER 1	AREA 3	60	575	3	55.4	125A 3P	3 #4 +GRD	TECK	MDC	Mg	4	HOA	R					2,6,7
B 3120	AIR BLOWER 2	AREA 3	60	575	3	55.4	125A 3P	3 #4 +GRD	TECK	MDC	Mg	4	HOA	R					2,6,7
B 3130	AIR BLOWER 3	AREA 3	60	575	3	55.4	125A 3P	3 #4 +GRD	TECK	MDC	Mg	4	HOA	R					2,6,7
MXR 3020	ANAEROBIC MIXER	AREA 3	2.2	575	3	3.2	15A 3P	3 #12 +GRD	TECK	MDC	Mg	1	HOA	R					2,6
MXR 3025	ANOXIC MIXER 1	AREA 3	2.2	575	3	3.2	15A 3P	3 #12 +GRD	TECK	MDC	Mg	1	HOA	R					2,6
MXR 3030	ANOXIC MIXER 2	AREA 3	2.2	575	3	3.2	15A 3P	3 #12 +GRD	TECK	MDC	Mg	1	HOA	R					2,6
AMCP	ALUM. MET. PUMP PANEL	AREA 3	0.66	120	1	14.4	20A 3P	2 #12 +GRD	TECK	PNL B									1
P 3215	ALUM. MET. PUMP 1	AREA 3	0.33	120	1	0.72	15A 3P	2 #12 +GRD	TECK	AMCP			HOA	R					2,6
P 3225	ALUM. MET. PUMP 2	AREA 3	0.33	120	1	0.72	15A 3P	2 #12 +GRD	TECK	AMCP			HOA	R					2,6
P 6010	WAS PUMP 1	AREA 6	5	575	3	4.8	15A 3P	3 #12 +GRD	TECK	MDC	VFD		HOA	R					2,6
P 3046	RECYCLE PUMP 1	AREA 3	4	575	3	5.1	15A 3P	3 #12 +GRD	TECK	MDC	Mg	1	HOA	R					2,6
P 3056	RECYCLE PUMP 2	AREA 3	4	575	3	5.1	15A 3P	3 #12 +GRD	TECK	MDC	Mg	1	HOA	R					2,6
	SECONDARY CLARIFIER																		
SC 4210	MECHANISM 1	AREA 4	0.5	575	3	0.8	15A 3P	3 #12 +GRD	TECK	MDC	Mg	1	HOA	R					2,6
SC 4310	MECHANISM 2	AREA 4	0.5	575	3	0.8	15A 3P	3 #12 +GRD	TECK	MDC	Mg	1	HOA	R					2,6
P 4245	RAS PUMP 1	AREA 4	7.5	575	3	9	20A 3P	3 #12 +GRD	TECK	MDC	Mg	1	OO	R					2,6
P 4345	RAS PUMP 2	AREA 4	7.5	575	3	9	20A 3P	3 #12 +GRD	TECK	MDC	Mg	1	OO	R					2,6
P 4425	SCUM PUMP 1	AREA 4	3.2	575	3	3.3	15A 3P	3 #12 +GRD	TECK	MDC	Ma	1	SS	R					3,6
	FILTER																		
PNL 5030	EFFLUENT FILTER	AREA 5	10	575	3		20A 3P	3 #10 +GRD	TECK	DB F				R					1,8
P 5010	BACKWASH PUMP	AREA 5	3	575	3	3.9	15A 3P	3 #12 +GRD	TECK	PNL 5030									3
P 5015	WASHWATER PUMP	AREA 5	3	575	3	3.9	15A 3P	3 #12 +GRD	TECK	PNL 5030									3
P 5020	SKIMMER PUMP	AREA 5	3	575	3	3.9	15A 3P	3 #12 +GRD	TECK	PNL 5030									3
TBR 5025	TRAVELLING BRIDGE	AREA 5	0.5	575	3	0.8	15A 3P	3 #12 +GRD	TECK	PNL 5030									3
LSCP	LIFT STATION CONTR. PNL.	AREA 5		575	3		15A 3P	3 #12 +GRD	TECK	DB F				R					1
P 5151	LIFT STATION PUMP 1	AREA 5	3.2	575	3	3.3	15A 3P	3 #12 +GRD	TECK	LSCP									3,6
P 5152	LIFT STATION PUMP 2	AREA 5	3.2	575	3	3.3	15A 3P	3 #12 +GRD	TECK	LSCP									3,6
P 5301	HYPOCHL. METERING PUMP	AREA 5		120	1	1.5	15A 1P	2 #12 +GRD	TECK	PNL F1									9
P 5302	HYPOCHL. METERING PUMP	AREA 5		120	1	1.5	15A 1P	2 #12 +GRD	TECK	PNL F1									9
	UV																		
UV 5051	UV BANK 1	AREA 5		208	3	17	30A 3P	4 #10 +GRD	TECK	PNL F2									2
UV 5052	UV BANK 2	AREA 5		208	3	17	30A 3P	4 #10 +GRD	TECK	PNL F2									2
UV 5053	UV BANK 3	AREA 5		208	3	17	30A 3P	4 #10 +GRD	TECK	PNL F2									2
	DAF																		
DM 6025	DAF THICKENER	AREA 3	1	575	3	1.4	15A 3P	3 #12 +GRD	TECK	MDC	VFD	x	HOA	R					1,2
P 6035	RECYCLE PUMP	AREA 3	10	575	3	11	20A 3P	3 #12 +GRD	TECK	MDC	Mg	1	HOA	R					2
COM 6045	COMPRESSOR	AREA 6	2	575	3	2.3	15A 3P	3 #12 +GRD	TECK	MDC	Mg	1	HOA	R					1,2,3
	OTHER LOADS																		
DB F	DISTRIBUTION PANEL	AREA 5					300A3P	4 350MCM +GRD	TECK	MDC									1
DB A	DISTRIBUTION PANEL	AREA 8					100A3P	4 3/0MCM +GRD	TECK	MDC									1
XFMR B1	TRANSFORMER B1	AREA 3					60A 3P	3 #6 +GRD	TECK	MDC									1
	CAPACITOR BANKS	AREA 3					225A3P	4 3/0MCM +GRD	TECK	MDC									1
	SPARE						100A3P			MDC									1
	SPARE						225A3P			MDC									1

Mechanical Motor Schedule

Unit No.	Unit Description	Unit Location	Motor Data KW	Volt	Ph	FLA	Breaker Amps	Feeder	Conduit Size (mm)	Starter Location	Type (b)	Size	Control (c)	P.L. (e)	Control Type (d)	Supl'd by (a)	Instl'd by (a)	Wiring by (a)	Notes
	PROCESS BUILDING																		
MUA 1500A	MAKE-UP AIR UNIT	AREA 3	–	575	3	4.2	15A 3P	3 #12 +GRD	19	AT UNIT	Mg	1	HOA	R	T	M	M	M	1,3,5,6
MUA 6500A	MAKE-UP AIR UNIT	AREA 3	–	575	3	3.2	15A 3P	3 #12 +GRD	19	AT UNIT	Mg	1	HOA	R	T	M	M	M	1,3,5,8
EF 6501A	EXHAUST FAN	AREA 3	0.37	120	1	9.8	20A 1P	2 #12 +GRD	12	AT UNIT	Ma	–	OA	R	–	E	E	E	–
EF 1502A	EXHAUST FAN	AREA 3	0.75	575	3	1.4	15A 3P	3 #12 +GRD	19	MDC	Mg	1	SS	R	O	E	E	E	8,10
SF 6502A	SUPPLY FAN	AREA 3	1.1	208	3	5.2	15A 3P	3 #12 +GRD	19	PNL B	Mg	1	SS	R	O	E	E	E	8,10
CUH 3530A	CABINET UNIT HEATER	AREA 3	0.03	120	1	–	15A 1P	2 #12 +GRD	12	PNL B	Ma	–	SS	R	T	E	E	E	–
CUH 6515A	CABINET UNIT HEATER	AREA 3	0.03	120	1	–	15A 1P	2 #12 +GRD	12	PNL B	Ma	–	SS	R	T	E	E	E	–
CUH 3535A	CABINET UNIT HEATER	AREA 3	0.03	120	1	–	15A 1P	2 #12 +GRD	12	PNL B	Ma	–	SS	R	T	E	E	E	–
BLR 3509A	BOILER	AREA 3		120	1	1.5	15A 1P	2 #12 +GRD	12	AT UNIT	Ma	–	SS	R	T	M	E	E	8
BLR 3510A	BOILER	AREA 3		120	1	1.5	15A 1P	2 #12 +GRD	12	AT UNIT	Ma	–	SS	R	T	M	E	E	8
BLR 3511A	BOILER	AREA 3		120	1	1.5	15A 1P	2 #12 +GRD	12	AT UNIT	Ma	–	SS	R	T	M	E	E	8
BLR 3512A	BOILER	AREA 3		120	1	1.5	15A 1P	2 #12 +GRD	12	AT UNIT	Ma	–	SS	R	T	M	E	E	8
BLR 3513A	BOILER	AREA 3		120	1	1.5	15A 1P	2 #12 +GRD	12	AT UNIT	Ma	–	SS	R	T	M	E	E	8
DWH 1521A	DOM. WATER HEATER	AREA 3		120	1	–	15A 1P	2 #12 +GRD	12	PNL B	Ma	–	SS	R	T	M	E	E	8
P 3515A	GLYCOL PUMP	AREA 3	3.73	575	3	6.1	15A 3P	3 #12 +GRD	19	MDC	Mg	1	HOA	R	O	M	E	E	8
P 3516A	GLYCOL PUMP	AREA 3	3.73	575	3	6.1	15A 3P	3 #12 +GRD	19	MDC	Mg	1	HOA	R	O	M	E	E	8
P 3517A	GLYCOL FILL	AREA 3	0.25	115	1	–	15A 1P	2 #12 +GRD	12	AT UNIT	Mg	–	OA	R	T	M	E	E	8
AHU 3500A	AIR HANDLING UNIT	AREA 3	–	575	3	6.7	15A 3P	3 #12 +GRD	19	AT UNIT	Ma	1	HOA	R	T	M	M	M	1,3,8
UH 3525A	UNIT HEATER	AREA 3	0.062	120	1	–	15A 1P	2 #12 +GRD	12	AT UNIT	Ma		SS	R	T	M	E	E	–
UH 3510A	UNIT HEATER	AREA 3	0.037	120	1	–	15A 1P	2 #12 +GRD	12	AT UNIT	Ma	–	SS	R	T	M	E	E	–
UH 3515A	UNIT HEATER	AREA 3	0.062	120	1	–	15A 1P	2 #12 +GRD	12	AT UNIT	Ma	–	SS	R	T	M	E	E	–
UH 3520A	UNIT HEATER	AREA 3	0.037	120	1	–	15A 1P	2 #12 +GRD	12	AT UNIT	Ma	–	SS	R	T	M	E	E	–
UH 3505A	UNIT HEATER	AREA 3	0.062	120	1		15A 1P	2 #12 +GRD	12	AT UNIT	Ma		SS	R	T	M	E	E	
CU 3520A	EVAPORATOR UNIT	AREA 5		208	1	28	40A 2P	2 #8 +GRD	12	AT UNIT	Mg	1	OA	R	T	M	M	M	1,3,8
CU 3520B	CONDENSING UNIT	AREA 5		208	3	19	30A 3P	3 #10 +GRD	19	AT UNIT	Mg	+	OA	R	T	M	M	M	1,3,8
	ADMINISTR. BUILDING																		
AHU 8500A CU 8500B	AIR HANDLING UNIT & CONDENSING UNIT	AREA 8		575	3	19.7	30A 3P	3 #10 +GRD	19	AT UNIT	Mg	1	OA	R	T	M	M	M	1,3,8
DWH 8501A	DOM. WATER HEATER	AREA 8		115	1	–	15A 1P	2 #12 +GRD	12	Mech.Rm	Ma	–	SS	R	T	M	E	E	8
EF 8502A	LAB. EXHAUST FAN	AREA 8	2.23	575	3	3.9	15A 3P	3 #12 +GRD	19	AT UNIT	Mg	1	SS	R	–	M	E	E	8
EF 8503A	SANIT. EXHAUST FAN	AREA 8	0.19	115	1	–	15A 1P	2 #12 +GRD	12	AT UNIT	Ma	–	SS	R	–	M	E	E	8
CUH 8504A	ELEC. CABINET HEATER	AREA 8	3	208	1	–	30A2P	2 #10 +GRD	19	AT UNIT	Mg	–	OA	R	T	M	E	E	1,3,8
CUH 8505A	ELEC. CABINET HEATER	AREA 8	4	208	1	–	30A3P	2 #10 +GRD	19	AT UNIT	Mg	–	OA	R	T	M	E	E	1,3,8
	FILTER BUILDING																		
CU 5000A	EVAPORATOR UNIT	AREA 5		208	1	28	40A 2P	2 #8 +GRD	19	AT UNIT	Mg	1	OA	R	T	M	M	M	1,3,8
CU 5000B	CONDENSING UNIT	AREA 5		208	3	19	30A 3P	3 #10 +GRD	19	AT UNIT	Mg	1	OA	R	T	M	M	M	1,3,8
AHU 5501A	AIR HANDLING UNIT	AREA 5	–	575	3	4.3	15A 3P	3 #12 +GRD	19	AT UNIT	Ma		OA	R	T,H	M	M	M	1,3,8
SF 5502	SUPPLY FAN	AREA 5	0.186	115	1	–	15A 1P	2 #12 +GRD	12	AT UNIT	Ma	–	SS	R	T	M	E	E	8
UH 5503A	UNIT HEATER	AREA 5	0.025	115	1	–	15A 1P	2 #12 +GRD	12	AT UNIT	Ma	–	SS	R	T	M	E	E	8

(a)Supplied By:
- E = Electrical
- M = Mechanical

(b)Starter Type:
- Ma = Manual c/w pilot light
- Mg = Magnetic
- Cm = Combination

(c)Control Type:
- SS = Stop/Start
- OA = Off/Auto
- HOA = Hand /Off/Auto
- OO = On/Off

(d)Control Device:
- P = Pressure Switch
- F = Float Switch
- C = Time Clock
- T = Thermostat
- H = Humidifier
- D = Differential Level
- L = Level Electrode
- Q = Torque Switch

(e)Pilot Lights:
- R = Red (run)
- G = Green (off)

Notes for Process Load Schedule:
1. Provide Breaker Only.
2. Provide Disconnect Switch.
3. Starter in Division 15 Package Unit.
4. Interlocked with CMP 1030.
5. Interlocked with SCN 1020.
6. Local HOA Control.
7. Provide Space for 100HP Starter.
8. Festoon Cable by Vendor
9. Provide Receptacle 120V.

Notes for Mechanical Motor Schedule:
1. Provide Breaker Only.
2. Emergency Power.
3. Starter in Div.15 Package Unit.
4. Variable Speed Controllers by Div.15.
5. Two Speed Starter.
6. Reduced Voltage Starter.
7. Explosion Proof.
8. Provide Disconnect Switch

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No.	Date	By	Revision	Chkd
4	26JUN98	KM	RECORD DRAWING	KJW
3	38MAY97	KM	APPROVED FOR CONSTRUCTION, CO 4	KHM
2	09APR97	KM	ISSUED FOR CONSTRUCTION (DUCT SCHEDULE)	KHM
1	JULY 96	KM	ISSUED FOR GMP TENDER	KHM

Design	KM
Drawn	KM
Checked	
Submitted	
Approved	

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT

AREA 0 – GENERAL

MDC / MCC
MOTOR SCHEDULE

Reid Crowther 39844

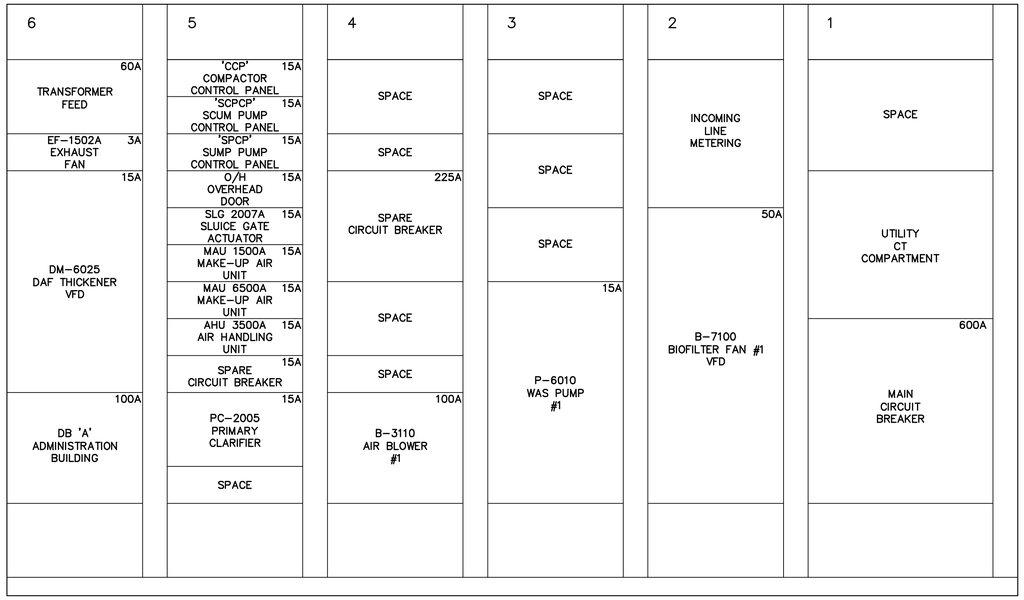
Scale	NTS
Date	JULY 1996
City File	
Sheet	of
Drawing	0E05

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO

4

DESIGN ENG\TECH | DESIGN COORD. | H:\PROJECTS\SWV\03884400\00A\1234\ELEC\844E05 Plotted 1998-07-17 | SWWTPA1

RECORD



1 / 0E06 MCC WEST ELEVATION (REFER TO DWG. 3E04)
SCALE N.T.S.

2 / 0E06 MCC EAST ELEVATION (REFER TO DWG. 3E04)
SCALE N.T.S.

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Design KM
Drawn KM
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 0 – GENERAL
MDC / MCC
ELEVATIONS

Reid Crowther 39844

Scale NTS
Date JULY 1996
City File
Sheet of
Drawing 0E06

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO

H:\PROJECTS\DNA\039844\00\02A\1234\ELEC\844038 Plotted 1998-07-17 SWWTPA1 DESIGN ENG\TECH DESIGN COORD.

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	CATALOGUE NO.	LAMPS NO.	LAMPS TYPE	MOUNTING	REMARKS
102	INDUSTRIAL TYPE FLUORESCENT C/W SLOTTED REFLECTOR	LITHONIA LIGHTING	AF 2 32 120 ADDE PO CSA	2	32W, T-8	SURFACE/CEILING OR CHAIN SUSPENDED	FIXTURE C/W PORCELAIN ENAMEL REFLECTOR
112	1220mm LONG FLUORESCENT CUBE LIGHT	LITHONIA LIGHTING	WC 2 32 120 ADDE CSA	2	32W, T-8	SURFACE/WALL	WALL MOUNTED IN STAIRWELL
122	1220mm LONG FLUORESCENT VAPOR PROOF FIXTURE	LITHONIA LIGHTING	DMSW 2 32 120 ADDE CSA AL	2	32W, T-8	SURFACE/CEILING	CEILING MOUNTED IN SHOWER AREA
132	610 X 1220mm RECESSED FLUORESCENT C/W K12 LENS	LITHONIA LIGHTING	2JH 2 32 A12125 20 ADDE PO CSA	2	32W, T-8	RECESSED/CEILING T-BAR	FIXTURE C/W HINGED FRAME
133	610 X 610mm RECESSED FLUORESCENT C/W K12 LENS	LITHONIA LIGHTING	2JH 2 U316 A12125 120 ADDE CSA	2	32W, T-8U	RECESSED/CEILING T-BAR	FIXTURE C/W HINGED FRAME
142	230 X 1220mm SURFACE WRAPAROUND FLUORESCENT FIXTURE	LITHONIA LIGHTING	BW 232 120 ADDE CSA	2	32W, T-8	SURFACE/CEILING	CEILING MOUNTED
152	180 X 1315mm FLUORESCENT FIXTURE CORROSION RESISTANT	NORTHERN RIG-A LITE	DURAPRO 483C2413	2	40W, T-12	SURFACE/CEILING	CEILING MOUNTED IN HEADWORKS BUILDING CLASS 1, DIV. II
162	1270mm LONG INDUSTRIAL FLUOR. VAPOR PROOF FIXTURE	LITHONIA LIGHTING	FCD 2 32 120 ADDE CSA	2	32W, T-8	SURFACE/CEILING OR CHAIN SUSPENDED	CEILING MOUNTED IN FILTER/UV BUILDING
172	RECESSED COMPACT FLUORESCENT DOWNLIGHT	LITHONIA LIGHTING	AFV 18TRT 5AR 120 GEB 10 CSA TRW	1	18W T5 TRI-TUBE	CEILING MOUNT	RECESSED MOUNTED ABOVE COUNTER IN CONTROL ROOM (ADMIN. BLDG.)
200	EXTERIOR HPS WALL-EYE	LITHONIA LIGHTING	TWP 150S 120/347 CSA	1	150W HPS	SURFACE/WALL	WALL MOUNTED ABOVE EXIT DOORS
201	AREA LIGHT HPS FIXTURE	LITHONIA LIGHTING	KAD 150S R3 120/347 SPD04 CSA	1	150W HPS	LIGHT STANDARD	ALUMINUM ANODIZED FINISH, 9 METER POLE C/W TYPE 2 MOUNTING ARRANGEMENT
202	AREA LIGHT HPS FIXTURE	LITHONIA LIGHTING	TWP 150S 120/347 CSA	1	150W HPS	SURFACE/WALL	WALL MOUNTED ON FACADE
203	INDUSTRIAL HID HID FIXTURE	HAZLUX 3	DHO 25 C 120-TGL-C2-C	1	250W M.H.	SURFACE/CEILING	MOUNTED TO UNDERSIDE OF ROOF STRUCTURE AT HEADWORKS BUILDING
202A	GENERAL PURPOSE FLOODLIGHT	LITHONIA LIGHTING	TFL 175M	1	175W MH	SURFACE/WALL	WALL MOUNTED IN FILTER BUILDING
300	EMERGENCY LIGHTING BATTERY PACK C/W 2 HEADS	EMERGY-LITE	12ESL144/2MQ8-MP6	2	120VAC 8W-12VDC QTZ. HALOGEN	SUPPORT SHELF	WALL MOUNTED ON SUPPORT SHELF AT +2300 A.F.F.
301	NOT USED						
302	EMERGENCY LIGHTING DOUBLE REMOTE LAMPS	EMERGY-LITE	EF9DQ-12V8W	2	8W-12V QTZ. HALOGEN	SURFACE/WALL	EMERGENCY LIGHTING DOUBLE REMOTE HEADS
303	SINGLE FACE EXIT LIGHT	EMERGY-LITE	LP EX51G-EM12	1	120VAC/12VDC 2 WATT LED BAR	SURFACE/WALL	EMERGENCY LIGHTING EXIT LIGHT SINGLE FACE C/W DC OPERATION FOR CONNECTION TO EM. BATTERY PACK
305	NOT USED						
306	SINGLE FACE EXIT LIGHT EXPLOSION PROOF	EMERGY-LITE	XFE-1-120-CL. I/DIV.2	1	120VAC/PL7 12V DC	SURFACE/WALL	EMERGENCY LIGHTING EXIT LIGHT SINGLE FACE SELF DC POWERED UNIT CLASS I, DIV. 2
307	NOT USED						
308	EMERGENCY LIGHTING DOUBLE REMOTE LAMPS EXPLOSION PROOF	EMERGY-LITE	EFXP2-12V25W-CL. I/DIV. 2	2	12VOLT 25W A-19	SURFACE/WALL	EMERGENCY LIGHTING DOUBLE REMOTE 25W HEADS. CLASS I, DIV. 2 25W HEADS. CLASS I, DIV. 2
309	EMERGENCY LIGHTING SINGLE REMOTE LAMP EXPLOSION PROOF	EMERGY-LITE	EFXP1-12V25W-CL. I/DIV. 2	1	12VOLT 25W A-19	SURFACE/WALL	EMERGENCY LIGHTING SINGLE REMOTE 25W HEAD. CLASS I, DIV. 2
310	SINGLE FACE EXIT LIGHT WEATHERPROOF	EMERGY-LITE	LPEXPK1-EM12	1	120VAC/12VDC 2 WATT LED BAR	SURFACE/WALL	EMERGENCY LIGHTING EXIT LIGHT SINGLE FACE C/W DC OPERATION FOR CONNECTION TO EM. BATTERY PACK
311	EMERGENCY LIGHTING DOUBLE REMOTE LAMPS WEATHERPROOF	EMERGY-LITE	EF11DQ-12V8W	2	8W-12V QTZ. HALOGEN	SURFACE/WALL	EMERGENCY LIGHTING DOUBLE REMOTE HEADS C/W GASKETTED CANOPY
312	NOT USED						

1 / 0E07 LUMINAIRE SCHEDULE
SCALE N.T.S.

VOLTS 120/208 — PANEL 'A' — TYPE
PHASE 3 — LOCATION ADMIN. BLDG. ELEC. ROOM — BUS SIZE 225A
WIRE 4 — FEEDER SEE DWG 0E04 — MTG. SURFACE

CR	REMARKS	BKR	WATTAGE ø A	ø B	ø C	CR	REMARKS	BKR	WATTAGE ø A	ø B	ø C
1	LIGHTING LABORATORY	15A	500			2	RECEPTS. LABORATORY	15A	1000		
3	LTG OFFICE & RECEPC.	15A		500		4	GFCI RECEPTACLES	15A		1000	
5	LTG MECH/ELEC, JANTR	15A			300	6	RECEPTS. OFFICE/REC.	15A			1000
7	LTG CONTROL ROOM	15A	500			8	RECEPTS. CONTROL RM.	15A	1200		
9	LTG. TOILETS	15A		300		10	RECEPTS. MECH/ELEC.	15A		1000	
11	LIGHTING CORRIDOR	15A			300	12	HAND DRYER	20A			1000
13	BLDG. EXTERIOR LTG.	15A	500			14	HAND DRYER	20A	500		
15	EMERG. LIGHTING BP#3	15A		100		16	FRIDGE	15A		800	
17	EXIT LIGHTS	15A			50	18	REC. CONTR. RM. COUNT	15A			1000
19	REC. LAB. COUNTER	15A	1000			20	REC. CONTR. RM. COUNT	15A	1000		
21	REC. LAB. COUNTER	15A		1000		22	FUME HOOD 220V REC.	15A		1000	
23	REC. LAB. COUNTER	15A			1000	24		2P			1000
25	REC. LAB. COUNTER	15A	1000			26	FEMALE WASHROOM REC.	15A	1000		
27	EF-8503A	15A		300		28	PHOTO CELL	15A		100	
29	SPARE	15A			300	30	HVAC CONTROL	15A			100
31	BASEBOARD HEATER	15A	1800			32	MALE WASHROOM REC.	15A	1000		
33	BASEBOARD HEATER	15A		1800		34	BASEBOARD HEAT. #1	15A		1000	
35	CUH-8504A	20A			300	36	BASEBOARD HEAT. #2	2P			1000
37		2P	300			38	BASEBOARD HEAT. #3	15A	1250		
39	CUH-8505B	20A		1800		40	BASEBOARD HEAT. #4	2P		1000	
41		2P			1800	42	SPARE	15A			1000
TOTALS			5600	5800	4050	TOTALS			6950	5900	6100

VOLTS 120/208 — PANEL 'B' — TYPE
PHASE 3 — LOCATION ELECTRICAL ROOM — BUS SIZE 225A
WIRE 4 — FEEDER SEE DWG 0E04 — MTG. SURFACE

CR	REMARKS	BKR	WATTAGE ø A	ø B	ø C	CR	REMARKS	BKR	WATTAGE ø A	ø B	ø C
1	LTG. SHOP&MECH ROOM	15A	300			2	MARSHALLING PANEL #1	15A	100		
3	LTG. ELEC&GEN ROOM	15A		500		4	VBA-2010A	15A		100	
5	HEADWORKS LIGHTING	15A			800	6	VBA-2020A (4)	15A			100
7	HEADWORKS LIGHTING	15A	800			8	BOILER PNL	15A	500		
9	HEADWORKS LIGHTING	20A		800		10	HVAC CONTROL PANEL	15A		100	
11	HEADWORKS LIGHTING	15A			800	12	EF-6501A (4)	15A			370
13	BLOWER RM. LIGHTING	15A	600			14	CUH 3530A,3535A,6515A	15A	90		
15	GENSET BLOCK HEATER	30A		1000		16	BLOWER CONTROL PNL.	15A		200	
17		2P			1000	18	UH 3510A,3525A,3505A	15A			160
19	EXIT LIGHTING	15A	100			20	UH 3515A,3520A,DAMP.	15A	100		
21	EMERG. LIGHTING BP#1	15A		100		22	INSTRUMENTATION	15A		500	
23	BUILDING EXT. LTG. (C1)	20A			500	24	INSTRUMENTATION	15A			500
25	BUILDING EXT. LTG. (C1)	20A	500			26	INSTRUMENTATION	15A	500		
27	SITE LIGHTING (C2)	20A		1000		28	SAMPLING PUMP REC.	15A		300	
29	SITE LIGHTING (C2)	20A			1000	30	REFRIGERATOR REC.	15A			300
31	RECEPTS. SHOP	15A	1200			32	CU 3520A	30A	1800		
33	RECEPTS. SHOP	15A		1200		34		2P		1800	
35	RECEPTS. M,E,G, ROOMS	15A			1000	36	REC. IN ROOF UNITS	15A			500
37	RECEPTS. LOWER FLOOR	15A	1200			38	'BSCP'	15A	200		
39	RECEPTS. HEADWORKS	15A		1200		40	'AMCP'	15A		660	
41	RECEPTS. BLOWER RM.	15A			1200	42	ADR 0955	15A			100
43	SF 6502A	15A	370			44	GENSET BATT. CHARGER	15A	100		
45		3P		370		46	VBA 1030A	15A		100	
47		3P			370	48	GLYCOL PUMP	15A			100
49	SPACE		–			50	SOLENOID 6040	15A	50		
51	SPACE			–		52	CU 3520B	30A		2278	
53	SPACE				–	54		3P			2278
55	SPACE		–			56		3P	2278		
57	SPACE			–		58	SPACE			–	
59	SPACE				–	60	SPACE				–
TOTALS			5070	6170	6670	TOTALS			6218	6038	4408

VOLTS 120/208 — PANEL 'F1' — TYPE
PHASE 3 — LOCATION FILTER BLDG. ELEC. RM. — BUS SIZE 225A
WIRE 4 — FEEDER SEE DWG 0E04 — MTG. SURFACE

CR	REMARKS	BKR	WATTAGE ø A	ø B	ø C	CR	REMARKS	BKR	WATTAGE ø A	ø B	ø C
1	LIGHTING ELEC. ROOM	15A	300			2	RECEPTS. ELEC. ROOM	15A	1000		
3	LIGHTING FILTER	20A		1000		4	RECEPTS. FILTER	15A		1000	
5	LIGHTING FILTER	15A			400	6	RECEPTS. FILTER	15A			1000
7	SPARE	15A	1000			8	GROUND FAULT RECEPT.	15A	1000		
9	BLDG. EXTER. LTG.	15A		1000		10	GROUND FAULT RECEPT.	15A		1000	
11	EXIT LIGHTING	15A			100	12	SF-5502A	15A			186
13	EMERG. LIGHTING BP#2	15A	100			14	UH-5503A	15A	25		
15	SAMPLING PUMP	15A		300		16	CU-5000A	35A		1800	
17	REFRIGERATOR REC. (4)	15A			800	18		2P			1800
19	3 POLE RECEPTACLE	30A	3000			20	METERING PUMP 5301	15A	16		
21		3P		3000		22	METERING PUMP 5302	15A		16	
23		3P			3000	24	INSTRUM. PWR. SUPPLY	15A			500
25	SPARE	15A	–			26	INSTRUM. PWR. SUPPLY	15A	500		
27	CU 5000B	30A		2278		28	INSTRUM. PWR. SUPPLY	15A		500	
29		3P			2278	30	SPARE				1000
31		3P	2278			32	SPACE				
33	SPACE					34	SPACE				
35	SPACE					36	SPACE				
37	SPACE					38	SPACE				
39	SPACE					40	SPACE				
41	SPACE					42	SPACE				
TOTALS			6678	7578	6578	TOTALS			2541	4316	4486

VOLTS 120/208 — PANEL 'F2' — TYPE
PHASE 3 — LOCATION ELECTRICAL ROOM — BUS SIZE 225A
WIRE 4 — FEEDER SEE DWG 0E04 — MTG. SURFACE

CR	REMARKS	BKR	WATTAGE ø A	ø B	ø C	CR	REMARKS	BKR	WATTAGE ø A	ø B	ø C
1	UV BANK 1 (UV 5051)	30A	–			2	SPACE		–		
3		3P		–		4	SPACE			–	
5		3P			–	6	SPACE				–
7	UV BANK 2 (UV 5052)	30A	–			8	SPACE		–		
9		3P		–		10	SPACE			–	
11		3P			–	12	SPACE				–
13	UV BANK 3 (UV 5053)	30A	–			14	SPACE		–		
15		3P		–		16	SPACE			–	
17		3P			–	18	SPACE				–
19	SPACE		–			20	SPACE		–		
21	SPACE			–		22	SPACE			–	
23	SPACE					24	SPACE				
TOTALS						TOTALS					

3 / 0E07 PANEL SCHEDULES
SCALE N.T.S.

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
4	26JUN98	KM	RECORD DRAWING	KJW					
3	38MAY97	KM	APPROVED FOR CONSTRUCTION, CO 4	KHM					
2	09APR97	KM	ISSUED FOR CONSTRUCTION (DUCT SCHEDULE)	KHM					
1	JULY 96	KM	ISSUED FOR GMP TENDER	KHM					

Design KM
Drawn KM
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 0 – GENERAL
LUMINAIRE & PANEL SCHEDULES

Reid Crowther
39844

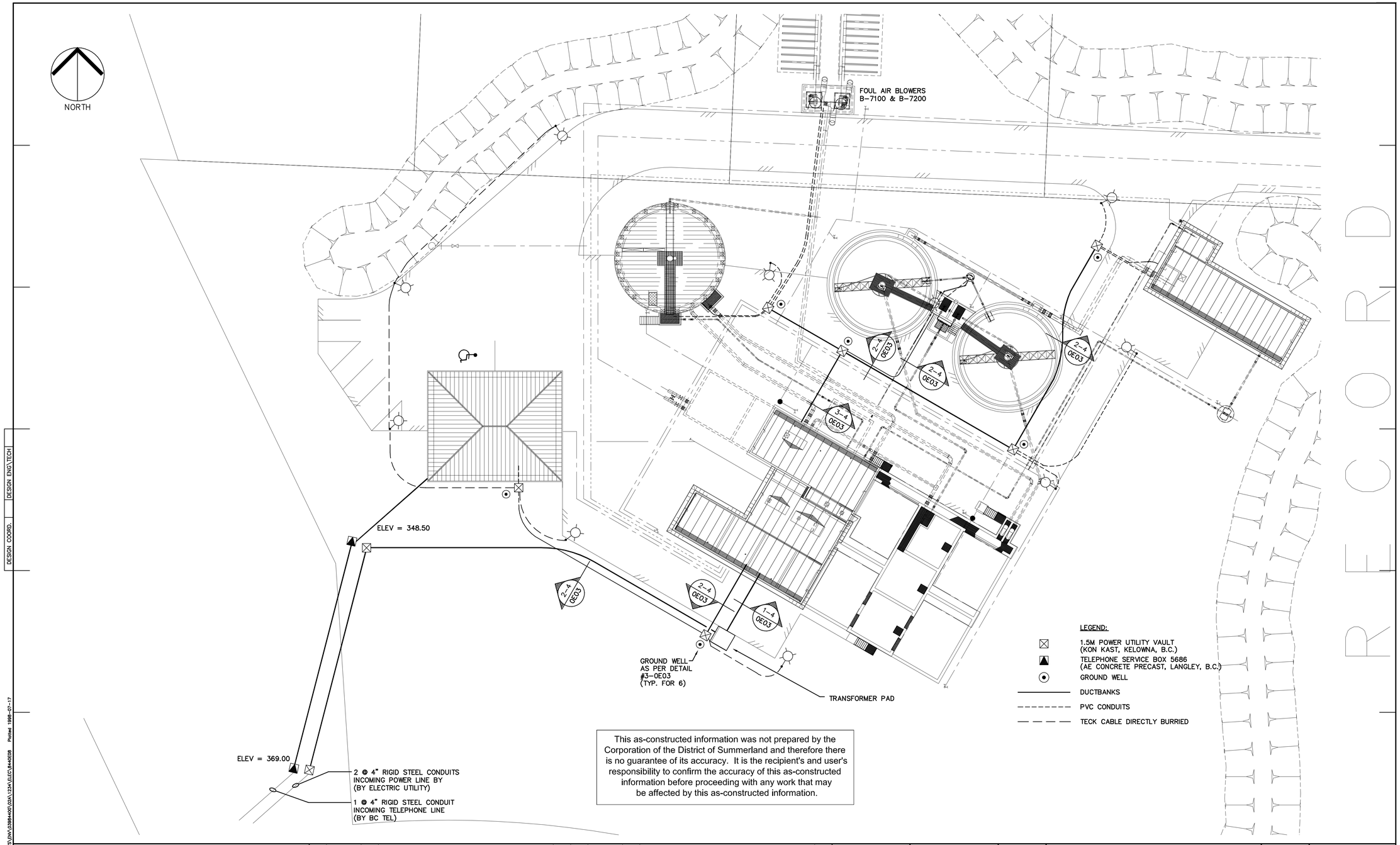
Scale NTS
Date JULY 1996
City File
Sheet of
Drawing 0E07

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 4

DESIGN COORD. | DESIGN ENG\TECH

H:\PROJECTS\DWG\0088440\020A\125A\LUEL\0440207 Plotted 1998-07-17

SWWTPA1



RECORD

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DESIGN COORD. | DESIGN ENG\TECH

H:\PROJECTS\UNIX\39844400\00A\123A\ELEC\#44038 Plotted: 1998-07-17

SWWTP.A1

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
5	JUNE 98	KM	RECORD DRAWING	KJW					
4	25APR97	KM	ISSUED WITH CCN 3 (ELECTRICAL ROUTE)	KHM					
3	8APR97	KM	ISSUED FOR CONSTRUCTION (DUCT SECTIONS)	KHM					
2	25MAR97	KM	ISSUED FOR CONSTRUCTION (GENERAL REVISIONS)	KHM					
1	JULY 96	KM	ISSUED FOR GMP TENDER	KHM					

Design KM
Drawn KM
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT

Reid Crowther
39844

AREA 0 – GENERAL

SITE LIGHTING AND DUCTS

Scale NTS
Date JULY 1996
City File
Sheet of
Drawing 0E08

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO →

5

FUNCTIONAL IDENTIFICATION

	FIRST LETTER (4)		SUCCEEDING-LETTERS (3)			I/O TYPES (1)
	MEASURED OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER	TYPICAL ASSOCIATED CDACS
A	ANALYSIS		ALARM			DI
B	BURNER, COMBUSTION			INCREADE, RAMP UP		DO
C	COMMUNICATIONS		CLOSE	CONTROL, CONTROLLER	CLOSE	AO, DO
D	DENSITY	DIFFERENTIAL		DECREASE, RAMP DOWN		DO
E	VOLTAGE		SENSOR (PRIMARY ELEMENT)			
F	FLOW RATE	RATIO (FRACTION)			FAIL	DI
G	GAS		GLASS VIEWING DEVICE			
H	HAND				H-HIGH-(ALARM) HH: HI-HI (SHUTDOWN)	DI
I	CURRENT (ELECTRICAL)		INDICATE			AI
J	POWER	SCAN			SUPPLY	DO, AI
K	TIME, TIME SCHEDULE	TIME RATE OF CHANGE		CONTROL STATION		DO, DI, AO
L	LEVEL		LIGHT		L-LOW-(ALARM) LL: LO-LO (SHUTDOWN)	DI
M	MOTOR	MOMENTARY	ON OR OPERATING		MIDDLE, INTERMEDIATE	DI
N	MOISTURE			START	ON OR OPERATE	DO
O	OVERLOAD, TORQUE		OPEN ORIFICE TEST CONNECTION	STOP	OPEN	DO, DI
P	PRESSURE, VACUUM			PNEUMATIC		
Q	QUANTITY	INTEGRATE, TOTALIZE		INTEGRATE OR TOTALIZE		DI, AI
R	RADIATION		RECORD			AI
S	SPEED, FREQUENCY SOLENOID	SAFETY		SWITCH, OR SAFETY		DI, DO
T	TEMPERATURE			TRANSMIT, TRANSMITTER		AI
U	MULTIVARIABLE		MULTIFUNCTION	MULTIFUNCTION	MULTIFUNCTION	DI
V	VIBRATION, MECHANICAL ANALYSIS	VALVE		VALVE, DAMPER, LOUVRE		
W	WEIGHT, FORCE		WELL			
X	UNCLASSIFIED	X AXIS	UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED	DI, DO
Y	EVENT, STATE PRESENCE	Y AXIS		RELAY, COMPUTE, CONVERT		DI, DO
Z	POSITION, DIMENSION	Z AXIS		DRIVER, ACTUATOR, UNCLASSIFIED - FINAL CONTROL ELEMENT		

INSTRUMENT AND FUNCTION SYMBOLS

- XXXX / XXXX — FIELD MOUNTED INSTRUMENT
- XXXX / XXXX — DISTRIBUTED CONTROL, AUXILIARY OPERATOR'S INTERFACE DEVICE
- XXXX XXXX / XXXX XXXX — INSTRUMENT WITH TWO SERVICE OR FUNCTION
- XXXX / XXXX — DISTRIBUTED CONTROL SYSTEM - INTERNAL SYSTEM FUNCTION (i.e. COMPUTATION/SIGNAL CONDITIONING) USED IN CONJUNCTION WITH FUNCTION BUBBLES
- XXXX / XXXX — LOCAL PANEL - MOUNTED INSTRUMENT
- XXXX / XXXX — COMPUTER - INTERNAL SYSTEM FUNCTION (i.e. COMPUTATION/SIGNAL CONDITIONING)
- XXXX / XXXX — INSTRUMENT MOUNTED BEHIND LOCAL CONTROL PANEL
- XXXX / XXXX — COMPUTER - INTERNAL SYSTEM FUNCTION NORMALLY ACCESSIBLE TO OPERATOR
- XXXX / XXXX — INSTRUMENT MOUNTED ON MAIN PANEL
- XXXX / XXXX — EQUIPMENT TAG, SEE PROCESS LEGEND
- XXXX / XXXX — INSTRUMENT MOUNTED BEHIND MAIN PANEL
- XXXX / XXXX — LOGIC OR SEQUENTIAL CONTROL
- XXXX / XXXX — DISTRIBUTED CONTROL, SHARED DISPLAY NOT NORMALLY ACCESSIBLE TO OPERATOR
- XXXX / XXXX — LOGIC OR SEQUENTIAL CONTROL PREFORMED WITHIN A DISTRIBUTED CONTROL SYSTEM
- XXXX / XXXX — DISTRIBUTED CONTROL, SHARED DISPLAY NORMALLY ACCESSIBLE TO OPERATOR
- XXXX / XXXX — LOGIC OR SEQUENTIAL CONTROL PREFORMED WITHIN A DISTRIBUTED CONTROL SYSTEM NORMALLY ACCESSIBLE TO OPERATOR

PRIMARY ELEMENT SYMBOLS

- ORIFICE PLATE
- VENTURI OR FLOW TUBE
- PITOT TUBE
- PROPELLER OR TURBINE METER
- FLUME
- WEIR
- F1 — VARIABLE AREA FLOW INDICATOR (ROTAMETER)
- DIAPHRAGM SEAL
- IN-LINE PRESSURE SENSOR
- VORTEX FLOW SENSOR
- MAGNETIC FLOWMETER
- SONIC FLOWMETER (DOPPLER OR TRANSIT TIME)
- POSITIVE DISPLACEMENT METER
- T — THERMAL FLOW ELEMENT
- FLOAT LEVEL ELEMENT
- DISPLACEMENT LEVEL ELEMENT
- BUBBLER LEVEL TUBE
- ULTRASONIC LEVEL ELEMENT

MISCELLANEOUS SYMBOLS

- P — PURGE OR FLUSHING DEVICE
- R — RESET FOR LATCH-TYPE OPERATOR
- W — SEAL WATER CONTROL UNIT

INSTRUMENT IDENTIFICATION

COMPLETE IDENTIFIER

FIT-2123A

- FIT — FUNCTIONAL ID CODE (FOLLOW TABLE ABOVE)
- 21 — PLANT AREA/PROCESS IDENTIFIER
- 23 — 3 DIGIT EQUIPMENT NUMBER; DIVISIONS AS FOLLOWS:
  - PROCESS- 000-499
  - MECHANICAL- 500-699
  - ELECTRICAL- 700-799
  - INSTRUMENTATION- 800-899
  - GENERAL SITE- 900-999
- A — SUFFIX, REQUIRED IF DUPLICATE ITEMS EXIST IN ONE LOOP

INSTRUMENT OPERATING FUNCTIONS

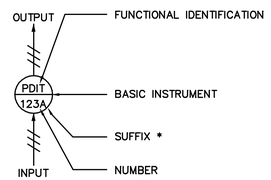
ANALYTICAL FUNCTIONS

RES Cl_2	RESIDUAL CHLORINE
SO_2	SULFUR DIOXIDE
COMB	COMBUSTIBLE GAS
H_2S	HYDROGEN SULFIDE
pH	pH
DO	DISSOLVED OXYGEN

SWITCHING FUNCTIONS

HA	HAND-AUTO SELECTION
HOA	HAND-OFF-AUTO SELECTION
JOA	JOG-OFF-AUTO SELECTION
SS	START-STOP
LL	LEAD-LAG SELECTION

TYPICAL INSTRUMENT IDENTIFICATION



* OPTIONAL

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INSTRUMENT SIGNAL SYMBOLS

- INSTRUMENT SUPPLY, PROCESS TAPS
- PNEUMATIC SIGNAL
- ELECTRIC SIGNAL (ANALOG)
- CAPILLARY TUBE OR FILLED SYSTEM
- ELECTROMAGNETIC OR SONIC SIGNAL (GUIDED)
- ELECTROMAGNETIC OR SONIC SIGNAL (UNGUIDED)
- SOFTWARE OR DATA LINK
- MECHANICAL LINK
- HYDRAULIC
- ES — ELECTRIC POWER SUPPLY 120 VAC 60 HZ U.O.N.
- SA — SERVICE AIR SUPPLY
- IA — INSTRUMENT QUALITY AIR SUPPLY
- C2 — WATER SUPPLY C1, C2, ETC.

U.O.N. = UNLESS OTHERWISE NOTED

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
4	JUNE 98	KM	RECORD DRAWING	KJW					
3	28MAY97	KJW	APPROVED FOR CONSTRUCTION, C.O. 4	CGL					
2	5MAR97	KJW	ISSUED FOR CONSTRUCTION	CGL					
1	JULY 96	KJW	ISSUED FOR GMP TENDER	CGL					

Design BLC
Drawn KJW
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 0 - GENERAL SITE

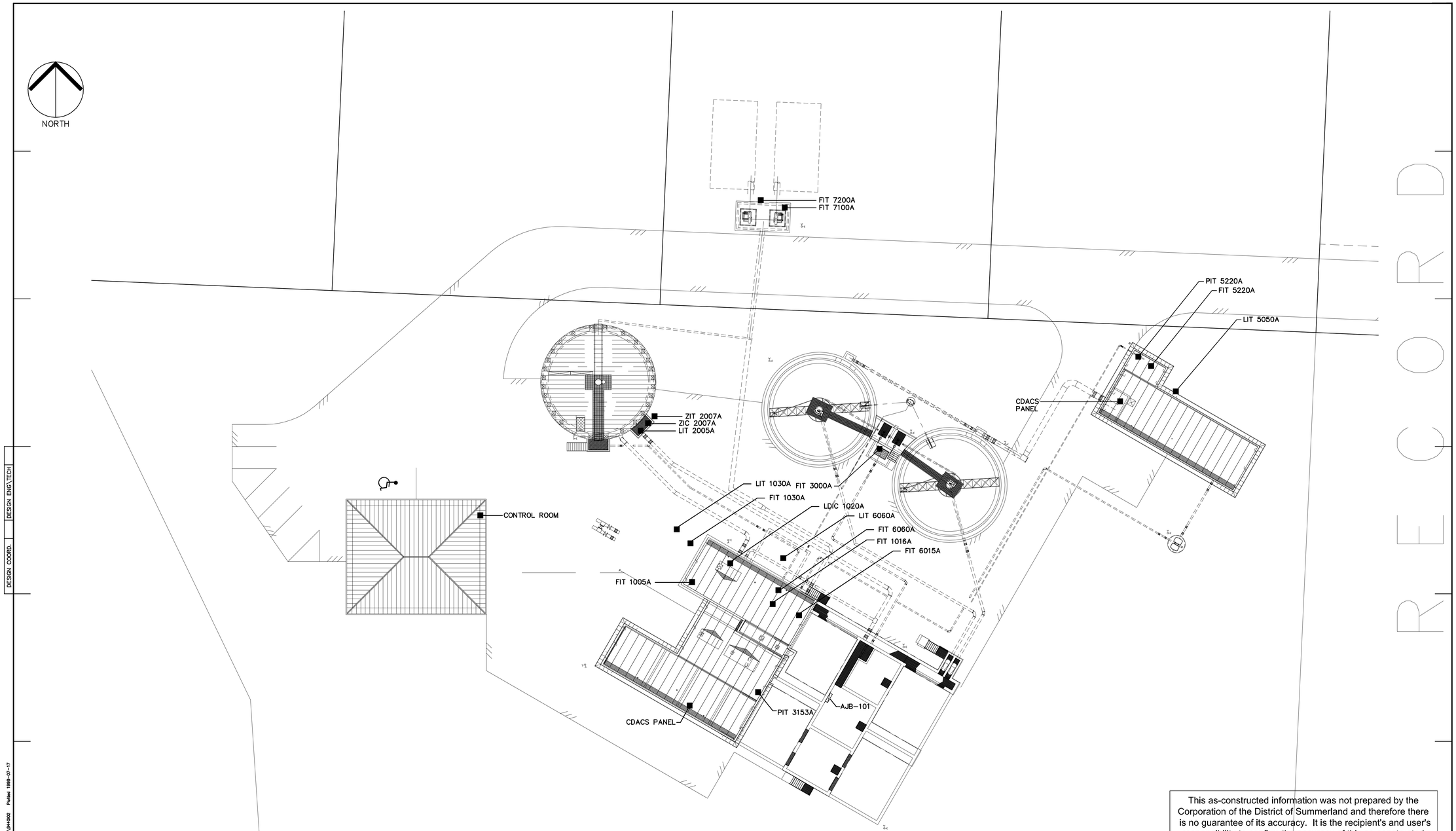
Reid Crowther 39844

INSTRUMENTATION
STANDARD DETAILS

Scale AS NOTED
Date JULY 1996
City File
Sheet 1 of 2
Drawing 0101

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 4

DESIGN ENG\TECH
DESIGN COORD.
Plotted 1998-07-17
H:\PROJECTS\ENV\0398400\02A\123A\ELEC\8440101
SWWTPA1



PLAN
1:250

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
5	JUNE 98	KM	RECORD DRAWING	KJW					
4	3JUNE97	KJW	APPROVED FOR CONSTRUCTION, C.O. 4	CGL					
3	3MAR97	KJW	ISSUED FOR CONSTRUCTION	CGL					
2	9JAN97	KJW	WORK IN PROGRESS V.1 (NO CHANGES)	KAC					
1	JULY 96	KJW	ISSUED FOR GMP TENDER	MHC					

Design BLC
Drawn KJW
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 0 – GENERAL
INSTRUMENTATION
HART TRANSMITTER LOCATIONS

Reid Crowther
39844

Scale AS NOTED
Date JULY 1996
City File
Sheet 2 of 2
Drawing 0102

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 5

DESIGN COORD. | DESIGN ENG\TECH

SWWTP A1 H:\PROJECTS\SM\3398440\00A\1234\UEDC 0444002 Plotted 1998-07-17

COMMODITY LIST

C1	POTABLE WATER (DOMESTIC)
C2	NON-POTABLE WATER
DHR	DOMESTIC HOT WATER RECIRC
DHS	DOMESTIC HOT WATER SUPPLY
DSFR	DIESEL FUEL RETURN
DSFS	DIESEL FUEL SUPPLY
GLR	GLYCOL RETURN
GLS	GLYCOL SUPPLY
NG	NATURAL GAS
V	VENT, SANITARY
SAN	SANITARY DRAINAGE
STD	STORMWATER DRAINAGE

EQUIPMENT ABBREVIATIONS

AF	AIR FILTER
AHU	AIR HANDLING UNIT
BFP	BACK FLOW PREVENTOR
BLR	BOILER
BWV	BACK WATER VALVE
CC	COOLING COIL
CH	CABINET UNIT HEATER
DVC	DOUBLE CHECK VALVE
EF	EXHAUST FAN
ETNK	EXPANSION TANK
F	FAN
HC	HEATING COIL
M	MOTOR
P	PUMP
RF	RETURN FAN
RHC	REHEAT COIL
RV	RELIEF VALVE
SEP	SEPARATOR (AIR)
SF	SUPPLY FAN
SLR	SILENCER
STR	STRAINER
TNK	TANK
UH	UNIT HEATER
V	VALVE
VC	CHECK VALVE
WH	WATER HEATER

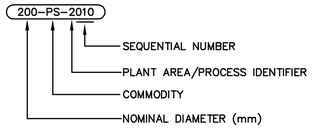
HVAC ABBREVIATIONS

DG	DOOR GRILLE	O/A	OUTDOOR AIR
E/A	EXHAUST AIR	R/A	RETURN AIR
EG	EXHAUST GRILLE	RG	RETURN GRILLE
L/S	LITRES PER SECOND	S/A	SUPPLY AIR
LVR	LOUVRE	SG	SUPPLY GRILLE
M/A	MIXED AIR	SD	SUPPLY DIFFUSER

PROCESS IDENTIFIERS

0	GENERAL SITE
1	HEADWORKS
2	PRIMARY CLARIFIER/FERMENTER
3	BIOREACTOR
4	SECONDARY CLARIFIER
5	FILTRATION AND DISINFECTION
6	SLUDGE MANAGEMENT
7	ODOUR MANAGEMENT
8	OPERATIONS/ADMINISTRATION

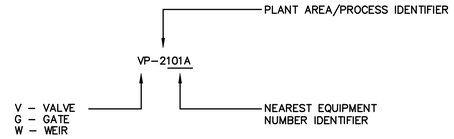
PIPE IDENTIFICATION



PIPE SEQUENTIAL NUMBERS:

0-499	PROCESS PIPES
500-699	MECHANICAL PIPES
700-799	N/A
800-899	N/A
900-999	GENERAL SITE PIPES

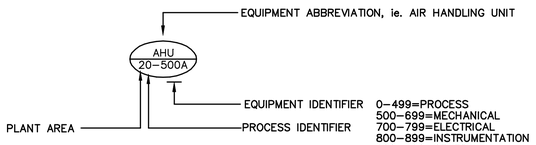
VALVE, GATE & WEIR IDENTIFICATION



VP=PLUG VALVE
VG=GATE VALVE
VBA=BALL VALVE
VBF=BUTTERFLY VALVE
VK=KNIFE GATE VALVE
VC=CHECK VALVE

SG=SLUICE GATE, SLIDE GATE
FG=FABRICATED GATE
FLG=FLAP GATE
ALC=AUTOMATIC LEVEL CONTROL

EQUIPMENT IDENTIFICATION



NOTE:
1. ALL MOTORS, INSTRUMENTATION, VALVES ETC. ASSOCIATED WITH A PIECE OF EQUIPMENT WILL SHARE THE EQUIPMENT IDENTIFICATION NUMBER.

PLUMBING & HEATING LEGEND

FD-#	FLOOR DRAIN TYPE #	(M)	METER (WATER/GAS)
FFD-#	FUNNEL FLOOR DRAIN TYPE #	MH	MANHOLE
RD-#	ROOF DRAIN TYPE #	FEC	FIRE EXTINGUISHER TYPE #
CO	CLEAN OUT PLUG		PRESSURE GAUGE
CO	CLEAN OUT & COVER		TEMPERATURE GAUGE
HB-#	HOSE BIBB TYPE #		FLOW DIRECTION
	RUNNING TRAP		GRADE DIRECTION
	FLEXIBLE CONNECTION		
	SIDE STREAM FILTER		
	SIGHT GLASS		

PLUMBING FIXTURE TAG

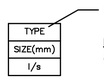
FIXTURE ABBREVIATION
FIXTURE IDENTIFIER

FIXTURE NAMES XXXX

EW	EYE WASH	SH	SHOWER
L	LAVATORY	SK	SINK
HWT	HOT WATER TANK	UR	URINAL
		WC	WATER CLOSET

PLUMBING & HVAC LEGEND

	SUPPLY AIR DUCT RISE	M	MOTORIZED DAMPER
	RETURN AIR DUCT RISE	F	FIRE DAMPER
	EXHAUST AIR DUCT RISE	B	BACKDRAFT DAMPER
	SUPPLY AIR DUCT DROP		BALANCING DAMPER
	RETURN AIR DUCT DROP		
	EXHAUST AIR DUCT DROP		
	DUCT WITH INTERNAL ACOUSTIC INSULATION (DUCT SIZE NOTED IS CLEAR INTERNAL DIMENSION)		DOUBLE THICKNESS TURNING VANES IN MITRED ELBOWS
	ROUND DUCT RISE		FLEXIBLE DUCT CONNECTION
	ROUND DUCT DROP	T	THERMOSTAT
		H	HUMIDISTAT
	SPLITTER VANES IN SHORT TURN RADIUS ELBOW		



QUANTITY & TYPE REQUIRED

DIFFUSER & GRILLE TAG
(REFER TO SCHEDULE IN SPECIFICATIONS)

SUPPLY/RETURN/EXHAUST DIFFUSER/GRILLE

M	BLOWER OR CENTRIFUGAL FAN		QUICK CONNECTOR
	RECEIVER OR PRESSURE VESSEL		CAP OR PLUG
M	MOTOR		BLIND FLANGE
M	PUMP, CENTRIFUGAL		STRAINER
M	PUMP, SUBMERSIBLE		SUCTION DIFFUSER
			AIR SEPARATOR
		D	DRAIN
			SIGHT GLASS

PIPE LEGEND

	FLANGED	SCREWED	WELDED
90ø ELBOW			
45ø ELBOW			
TEE			
LATERAL			
ELBOW TURNED DOWN			
ELBOW TURNED UP			
ELBOW SIDE OUTLET DOWN			
ELBOW SIDE OUTLET UP			
TEE OUTLET DOWN			
TEE OUTLET UP			
REDUCER CONCENTRIC			
REDUCER ECCENTRIC			
EXPANSION JOINT			
FLANGE			
UNION			
CAP			
ORFICE			

VALVE AND FITTING LEGEND

	THREE WAY VALVE	M	MANUAL AIR VALVE
	TWO WAY VALVE	A	AUTOMATIC AIR VALVE
	GATE VALVE		BACK FLOW PREVENTOR
	BALANCING VALVE		BACK WATER VALVE
	PLUG VALVE		DOUBLE CHECK VALVE
	BALL VALVE		GLOBE VALVE
	BUTTERFLY VALVE		CHECK VALVE
	BUTTERFLY VALVE		

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HEATING PIPING SMALLER THAN 100mm DIAMETER & ALL DOMESTIC PLUMBING PIPING AND ALL FIRE PROTECTION PIPING IS SHOWN SINGLE LINE.

HEATING PIPING 100mm DIAMETER AND LARGER IS SHOWN DOUBLE LINE.

No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
4	20 MAY 98	GDB	RECORD DRAWING	KJW					
3	30MAY97	JFK	APPROVED FOR CONSTRUCTION, C.O. 4	KJW					
2	7APR97	JFK	ISSUED FOR CONSTRUCTION	KJW					
1	JULY 96	AGT	ISSUED FOR G.M.P. TENDER	GSR					

Design	GSR
Drawn	AGT
Checked	
Submitted	
Approved	

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT

MECHANICAL STANDARD DETAILS

HVAC LEGEND AND DETAILS

Reid Crowther 39844

Scale	N.T.S.
Date	JUNE 1996
City File	
Sheet	of
Drawing	0M01

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 4

SWWTPA1 H:\PROJECTS\SWA\03984400\02A\1234\HVAC\0\8440M01 Plotted 1998-07-16 DESIGN COORD. DESIGN ENG\TECH

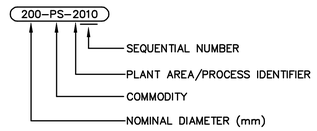
COMMODITY LIST

C1	POTABLE WATER (DOMESTIC)
C2	SEAL WATER
C3	RECYCLED, NON-POTABLE WATER
CLS	CHLORINE SOLUTION
CHV	CHEMICAL VENT
DR	DRAINAGE
FA	FOUL AIR
FBW	FILTER BACKWASH WATER
FPS	FERMENTED PRIMARY SLUDGE
FSU	FERMENTER SUPERNATANT
FY	FERMENTER SCUM
GR	GRIT
IA	INSTRUMENT AIR
ML	MIXED LIQUOR
NG	NATURAL GAS
OF	OVERFLOW
PA	PROCESS AIR
PD	PROCESS DRAIN
PE	PRIMARY EFFLUENT
PS	PRIMARY SLUDGE
PY	PRIMARY SCUM
RAS	RETURN ACTIVATED SLUDGE
RS	RAW SEWAGE
SA	SERVICE AIR
SAN	SANITARY DRAINAGE
SC	SCREENINGS
SCP	SCREENINGS COMPACTOR PRESSATE
SE	SECONDARY EFFLUENT
STM	STORMWATER DRAINAGE
SW	SEAL WATER
SY	SECONDARY SCUM
V	VENT
WAS	WASTE ACTIVATED SLUDGE
Y	SCUM

PLANT AREA/PROCESS IDENTIFIERS

0	GENERAL SITE
1	HEADWORKS
2	PRIMARY CLARIFIER/FERMENTER
3	BIOREACTOR
4	SECONDARY CLARIFICATION
5	FILTRATION AND DISINFECTION
6	SLUDGE MANAGEMENT
7	ODOUR MANAGEMENT
8	OPERATIONS/ADMINISTRATION

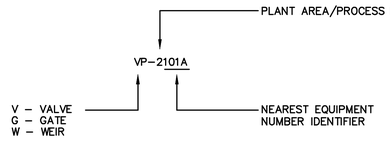
PIPE IDENTIFICATION



PIPE SEQUENTIAL NUMBERS:

0-499	PROCESS PIPES
500-699	MECHANICAL PIPES
700-799	N/A
800-899	N/A
900-999	GENERAL SITE PIPES

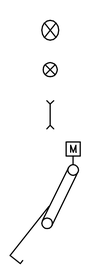
VALVE, GATE & WEIR IDENTIFICATION



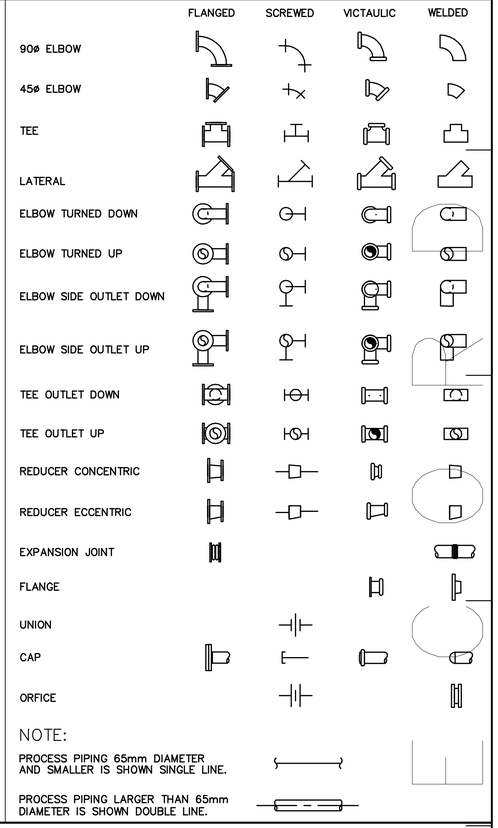
VP=PLUG VALVE
VG=GATE VALVE
VBA=BALL VALVE
VBF=BUTTERFLY VALVE
VK=KNIFE GATE VALVE
VC=CHECK VALVE

SG=SLUICE GATE, SLIDE GATE
FG=FABRICATED GATE
FLG=FLAP GATE
ALC=AUTOMATIC LEVEL CONTROL

EQUIPMENT LEGEND



PIPE LEGEND



NOTE:

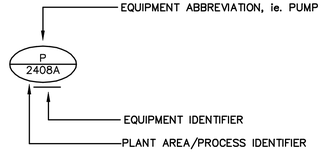
PROCESS PIPING 65mm DIAMETER AND SMALLER IS SHOWN SINGLE LINE.

PROCESS PIPING LARGER THAN 65mm DIAMETER IS SHOWN DOUBLE LINE.

PROCESS EQUIPMENT ABBREVIATIONS

AER	AERATOR
B	BLOWER
BC	BIOREACTOR CELL
CM	CLARIFIER MOTOR
CMP	CHEMICAL METERING PUMP
COM	COMPRESSOR
CON	CONTAINER
CMP	SCREENINGS COMPACTOR
FLT	FILTER
FLU	FLUME
G	GATE (FLAP, SLUICE, SLIDE, FABRICATED)
SKM	SKIMMER
MXR	MIXER
M	MOTOR
P	PUMP
PC	PRIMARY CLARIFIER
PRV	PRESSURE REDUCING VALVE
SC	SECONDARY CLARIFIER
SCN	SCREEN (BAR, ROTARY, ETC.)
SG	SLIDE GATE
SL	STOP LOG
SLC	SILENCER
TNK	TANK
V	VALVE
VFD	VARIABLE SPEED DRIVE
VTP	VERTICAL TURBINE PUMP
W	WEIR (CONTROL, MEASURING)
UV	ULTRAVIOLET DISINFECTION

EQUIPMENT IDENTIFICATION

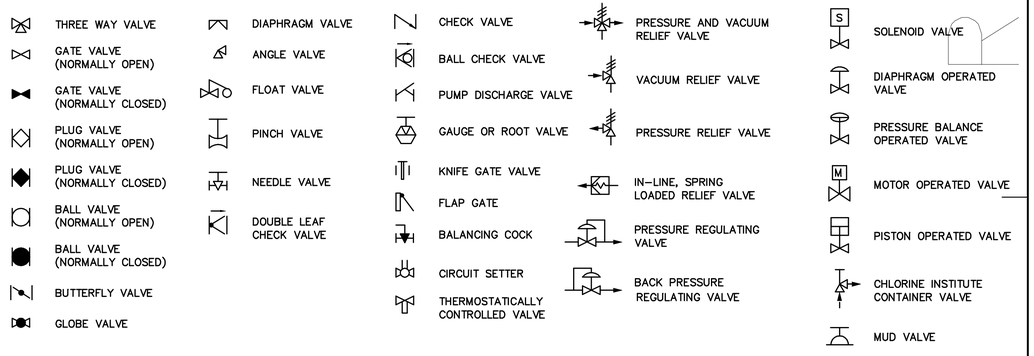


EQUIPMENT IDENTIFIER NUMBERS:

0-499	PROCESS EQUIPMENT
500-699	MECHANICAL EQUIPMENT
700-799	ELECTRICAL EQUIPMENT
800-899	INSTRUMENTATION EQUIPMENT
900-999	GENERAL SITE EQUIPMENT

NOTE:
1. ALL MOTORS, INSTRUMENTATION, VALVES ETC. ASSOCIATED WITH A PIECE OF EQUIPMENT WILL SHARE THE EQUIPMENT IDENTIFICATION NUMBER.

VALVE LEGEND



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2	25FEB97	KJW	ISSUED FOR CONSTRUCTION	CGL
1	JULY 96	KJW	ISSUED FOR GMP TENDER	CGL

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Design	
Drawn	KJW
Checked	
Submitted	
Approved	

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT

AREA 0 - GENERAL SITE

Reid Crowther 39844

PROCESS
STANDARD DETAILS

Scale	AS NOTED
Date	JULY 1996
City File	
Sheet	of
Drawing	0P01

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO →

4

DESIGN COORD. | DESIGN ENG'TECH

Plotted 1998-07-15

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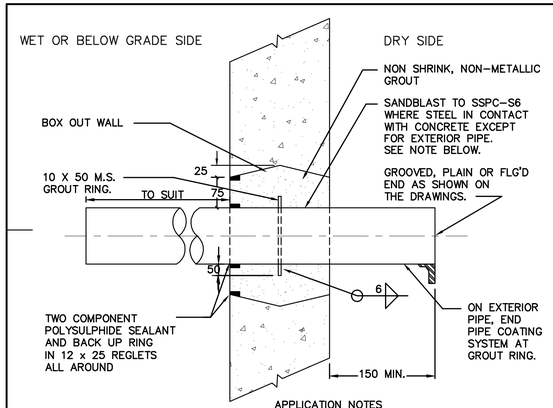
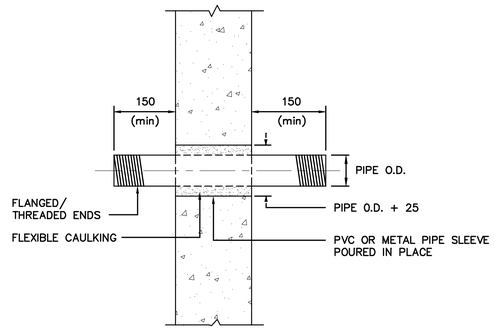
SWWTPA1



APPLICATION NOTES
1. CONCRETE WALL
2. USE FOR SCH20 OR STRONGER STAINLESS STEEL OR STEEL PIPE.
3. CONDITION
   a) WET TO DRY
   b) WET TO WET
   c) INTERIOR TO BELOW GRADE
4. NO TRANSVERSE MOVEMENT ALLOWED
5. LIQUID SIDE MUST PASS LEAKAGE TEST TO WHICH STRUCTURE IS SUBJECTED.
6. SAME DETAIL FOR VERTICAL WALL OR FLOOR/CEILING SLAB.
7. WITH ENGINEER'S APPROVAL BOX-OUT MAY BE DELETED AND POURED IN PLACE PIPE SET IN FORMWORK. REGLET CAULKING AT PIPE MUST STILL BE PROVIDED

1 / 0P02 WALL PENETRATION NO. 1
SCALE N.T.S.



APPLICATION NOTES
1. CONCRETE WALL
2. STEEL, DUCTILE IRON, PVC OR FRP PIPE; LESS THAN 75mm NOMINAL I.D.
3. CONDITION
   a) DRY TO DRY
4. ALLOW TRANSVERSE MOVEMENT

2 / 0P02 WALL PENETRATION NO. 2
SCALE N.T.S.

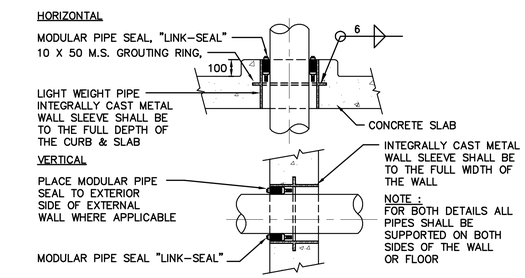


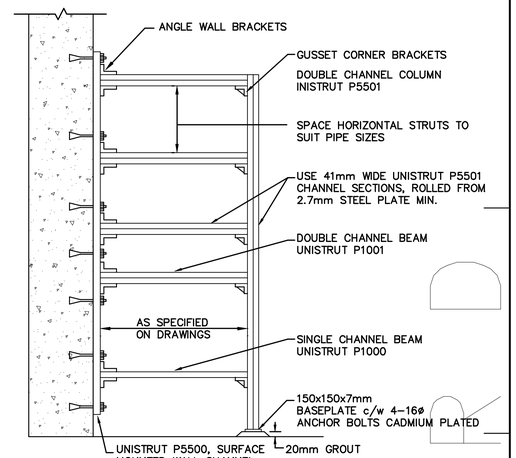
TABLE OF "LINK-SEAL" SERIES FOR STEEL PIPE - FOR OTHER SIZES AND MATERIALS SEE SUPPLIER'S TABLES*

STEEL PIPE		WALL SLEEVE	LINK-SEAL		STEEL PIPE		WALL SLEEVE	LINK-SEAL	
SIZE	ACTUAL O.D.	I.D.	LINKS PER SEAL	MODEL NO.*	SIZE	ACTUAL O.D.	I.D.	LINKS PER SEAL	MODEL NO.*
13	21.3	52.5	4	LS-200-C	250	273.1	336.6	10	LS-425-C
20	26.7	62.7	5	LS-275-C	300	323.9	387.4	12	LS-425-C
25	33.4	62.7	5	LS-200-C	350	355.6	438.2	13	LS-400-C
32	42.2	77.9	7	LS-275-C	400	406.4	489.0	15	LS-400-C
38	48.3	90.1	5	LS-300-C	450	457.2	590.6	16	LS-500-C
50	60.3	102.3	6	LS-300-C	500	508.0	590.6	18	LS-400-C
75	89.0	128.2	8	LS-300-C	600	609.6	743	21	LS-500-C
100	114.3	154.1	10	LS-300-C	750	762.0	895	26	LS-500-C
125	141.3	202.7	6	LS-425-C	900	914.4	1048	30	LS-500-C
150	168.3	254.5	7	LS-400-C	1050	1066.8	1200	36	LS-500-C
200	219.1	304.8	12	LS-475-C	1200	1219.2	1353	41	LS-500-C

* USE FD OR FS MODEL FOR FIRE RATED SERVICE, REFER TO SUPPLIER FOR DETAIL.

APPLICATION NOTES
1. CONCRETE WALL
2. STEEL, DUCTILE IRON, PVC OR FRP PIPE; NON-INSULATED
3. CONDITION
   a) DRY TO DRY
   b) DRY TO DRY
   c) DRY TO BELOW GRADE
4. GROUT RING REQ'D ONLY FOR PENETRATION IN WET AREAS OR BELOW GRADE.
5. FOR DRY TO BELOW GRADE CONDITION, PLACE LINK SEAL ON INTERIOR FACE AND GROUT FROM OUTSIDE WALL TO LINK SEAL.

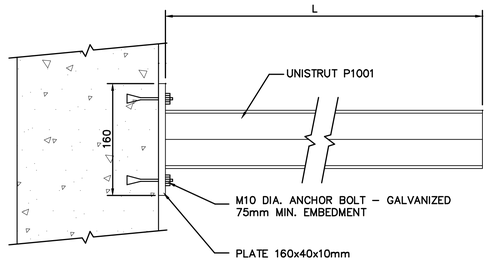
3 / 0P02 WALL & FLOOR PENETRATION NO. 3
SCALE N.T.S.



BEAM WIDTH (mm)	MAXIMUM LOAD SINGLE CHANNEL UNISTRUT P1000 (kg)	MAXIMUM LOAD DOUBLE CHANNEL UNISTRUT P1001 (kg)	MAXIMUM COLUMN LOADING UNISTRUT P5501 (kg)	MAXIMUM LOAD DOUBLE CHANNEL UNISTRUT P5501 (kg)
600	770	1125	8400	1680
900	510	1125	8260	1680
1200	390	1080	7990	1680

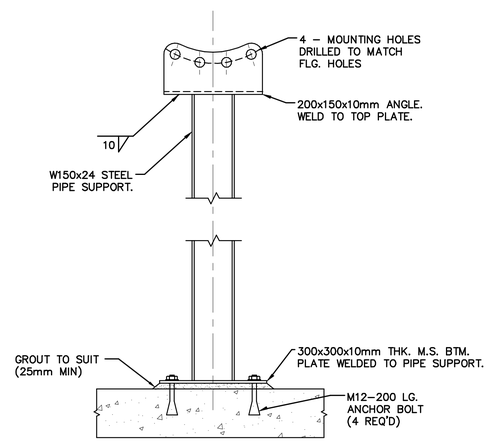
MINIMUM SAFETY FACTOR = 3

4 / 0P02 PIPE RACK
SCALE N.T.S.

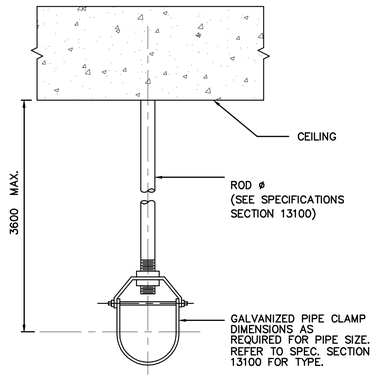


MAXIMUM LOAD OF BEAM LOADED @ CENTER (kg)	LENGTH OF SUPPORT L (mm)
9,800	760
10,000	450
10,000	300

5 / 0P02 WALL MOUNTED PIPE SUPPORT
SCALE N.T.S.



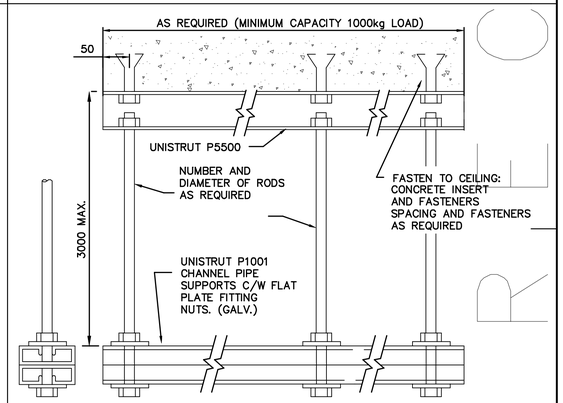
6 / 0P02 FLANGED ELBOW SUPPORT
SCALE N.T.S.



PIPE SIZE (mm)	ROD SIZE (mm)	MAX LOAD (kg)
25	9.4	280
50	9.4	280
75	12.0	510
100	16.0	800
150	20.0	1230
200	22.0	1710
250	25.0	2250
300	25.0	2250
350	25.0	2250
450	25.0	2250
500	32.0	3630
600	32.0	3630

GRINNELL OR SIMILAR
SAFETY FACTOR = 5

7 / 0P02 SINGLE PIPE HANGER
SCALE N.T.S.



	PIPE SIZES ON RACK	ROD SIZE REQ'D
600mm SPACING	150mm AND SMALLER	9mm
	300mm AND SMALLER	12mm
900mm SPACING	100mm AND SMALLER	9mm
	200mm AND SMALLER	12mm
	300mm AND SMALLER	19mm
1200mm SPACING	75mm AND SMALLER	9mm
	150mm AND SMALLER	12mm
	200mm AND SMALLER	16mm
	300mm AND SMALLER	19mm

NOTE:
1. MAXIMUM SPACING = 1200mm
2. MINIMUM SAFETY FACTOR = 3

8 / 0P02 MULTI PIPE HANGER
SCALE N.T.S.

DESIGN COORD. | DESIGN ENG\TECH
Plotted 1998-07-15
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3	28MAY97	KJW	APPROVED FOR CONSTRUCTION, C.O. 4	CGL
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1	JULY 96	KJW	ISSUED FOR GMP TENDER	CGL

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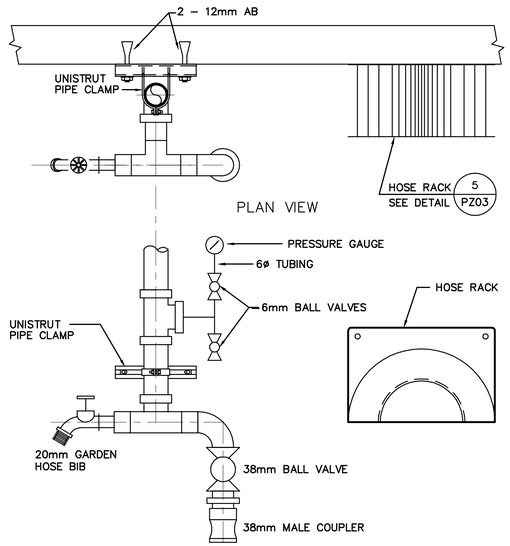
Design
Drawn KJW
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 0 - GENERAL SITE
PROCESS
STANDARD DETAILS

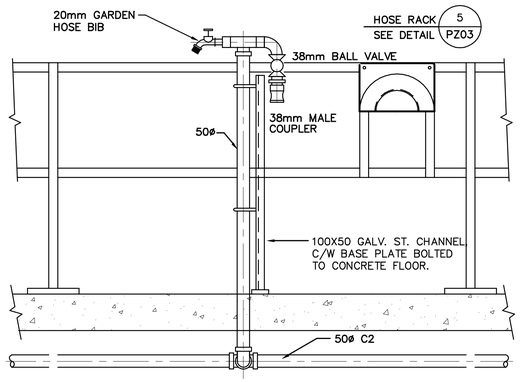
Reid Crowther 39844

Scale AS NOTED
Date JULY 1996
City File
Sheet of
Drawing 0P02

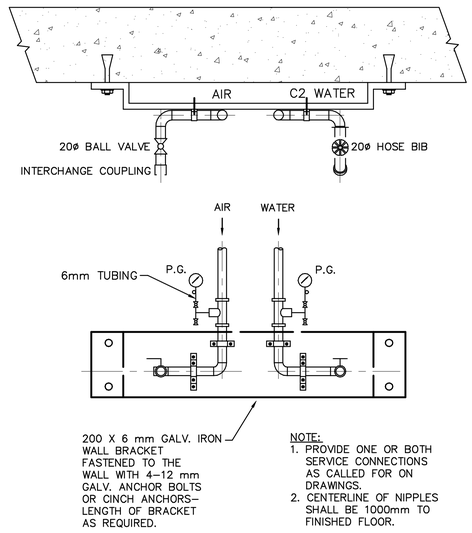
SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 4



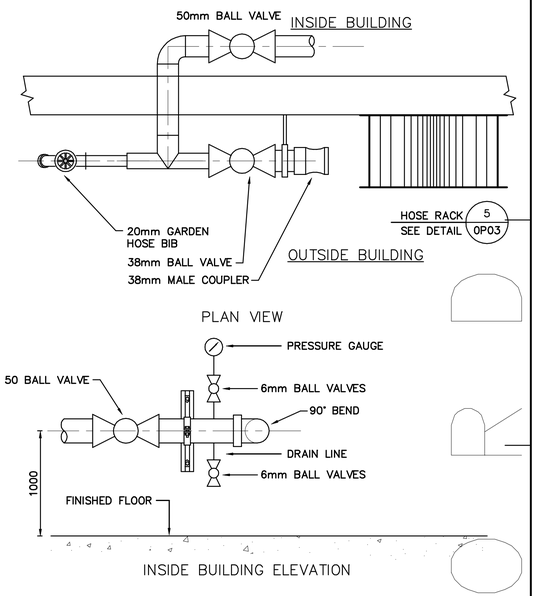
1 0P03 HOSE STATION TYPE I
SCALE N.T.S.



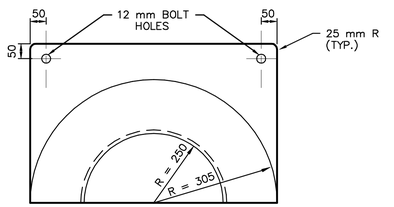
2 0P03 HOSE STATION TYPE II
SCALE N.T.S.

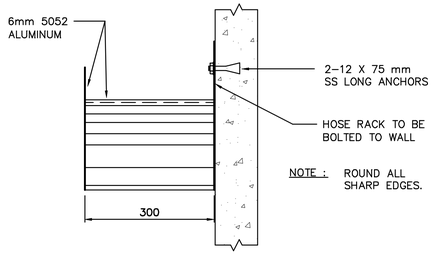


3 0P03 HOSE STATION TYPE III
SCALE N.T.S.

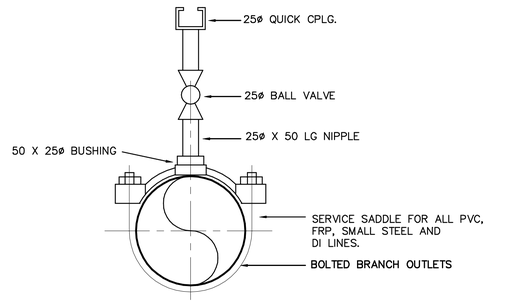


4 0P03 HOSE STATION TYPE IV
SCALE N.T.S.





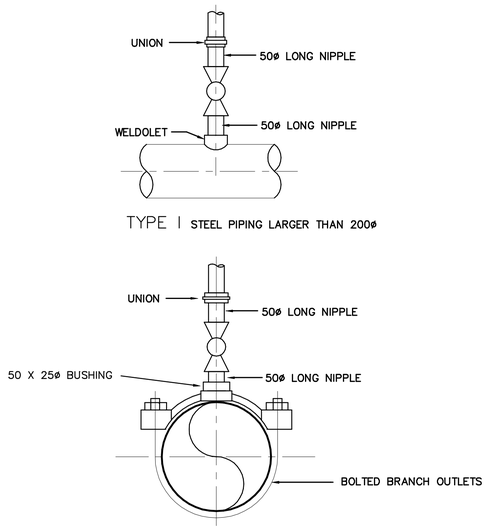
5 0P03 HOSE RACK
SCALE N.T.S.



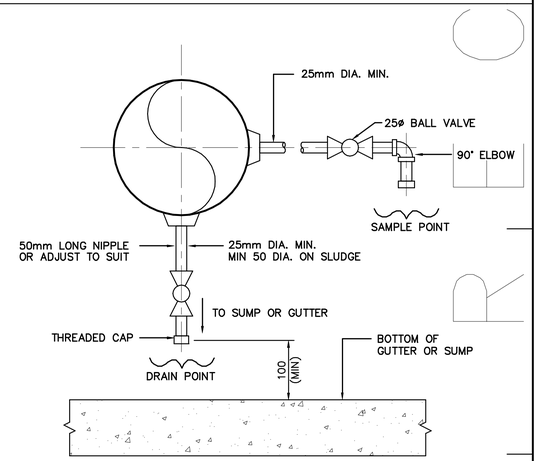
NOTE:

1. FOR STEEL LINES GREATER THAN 200ø, USE 50 SOCKOLET. LINE PIPE AFTER INSTALLATION.
2. FOR DI LINES GREATER THAN 200ø, THREAD PIPE FOR A 50ø CONNECTION.

6 0P03 FLUSHING CONNECTION
SCALE N.T.S.



7 0P03 TAPPINGS
SCALE N.T.S.



NOTES:

1. ALL DRAIN & SAMPLE POINT FITTINGS SHALL BE GALVANIZED STEEL.

8 0P03 SAMPLE AND DRAIN POINTS
SCALE N.T.S.

DESIGN ENG\TECH
DESIGN COORD.
Plotted 1998-07-15
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SWWTPA1

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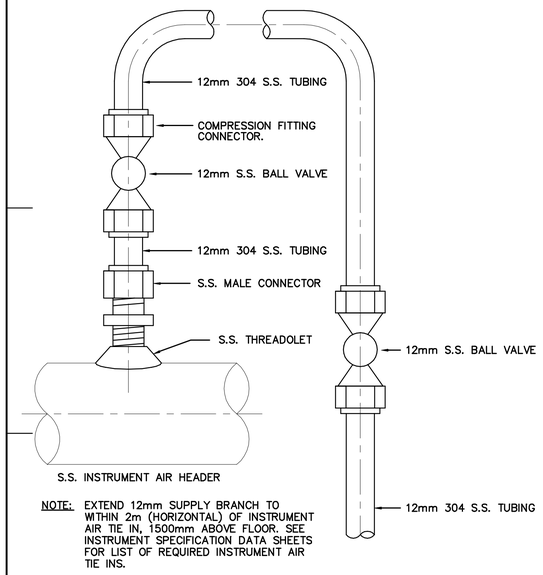
Drawn KJW
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 0 – GENERAL SITE
PROCESS
STANDARD DETAILS

Reid Crowther 39844

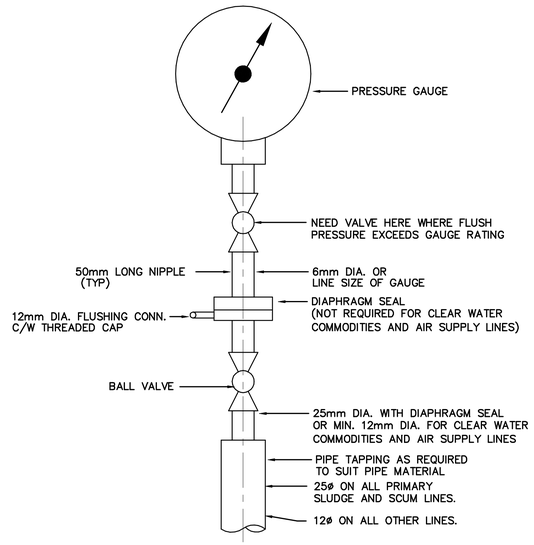
Scale AS NOTED
Date JULY 1996
City File
Sheet of
Drawing 0P03

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 4



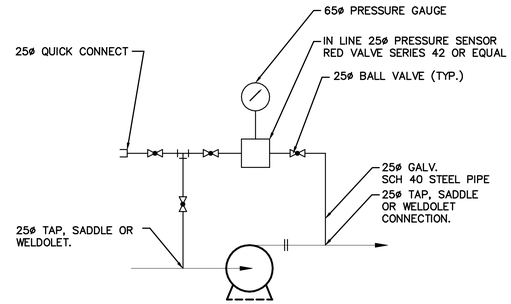
NOTE: EXTEND 12mm SUPPLY BRANCH TO WITHIN 2m (HORIZONTAL) OF INSTRUMENT AIR TIE IN, 1500mm ABOVE FLOOR. SEE INSTRUMENT SPECIFICATION DATA SHEETS FOR LIST OF REQUIRED INSTRUMENT AIR TIE INS.

1 / 0P04 — INSTRUMENT AIR TAKEOFF
SCALE N.T.S.



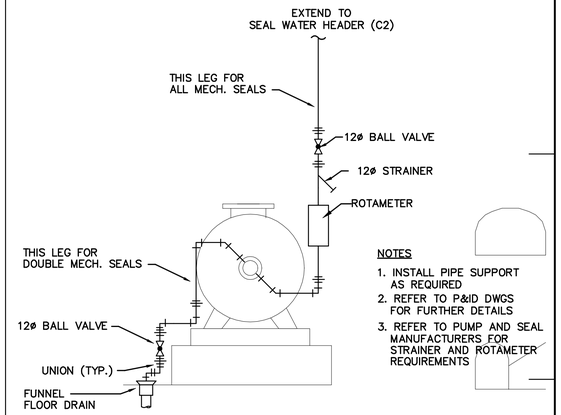
NOTES:
1. PRESSURE SENSOR RANGE NOT TO EXCEED 150% OF PUMP SHUT OFF HEAD

2 / 0P04 — PRESSURE GAUGE CONNECTION
SCALE N.T.S.



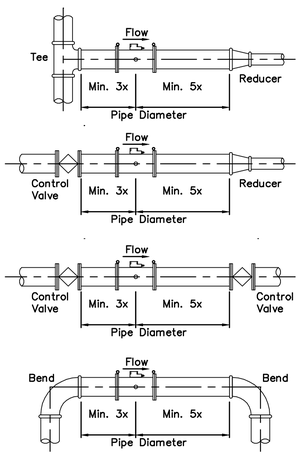
NOTES:
1. ARRANGEMENT SHOWN IS SCHEMATIC FOR ALL PUMPS HANDLING SEWAGE, SLUDGE, SCUM OR GRIT.
2. ARRANGE PIPING IN FIELD TO MINIMIZE LENGTH OF CONNECTION.
3. PRESSURE SENSOR SHALL BE MOUNTED IN HORIZONTAL LEG.
4. ALL ELBOWS SHALL BE LONG RADIUS.
5. PRESSURE SENSOR RANGE NOT TO EXCEED 150% OF PUMP SHUT OFF HEAD

3 / 0P04 — PRESSURE SENSING ARRANGEMENT ON SEWAGE, SCUM, SLUDGE AND GRIT PUMPS
SCALE N.T.S.



NOTES
1. INSTALL PIPE SUPPORT AS REQUIRED.
2. REFER TO P&ID DWGS FOR FURTHER DETAILS
3. REFER TO PUMP AND SEAL MANUFACTURERS FOR STRAINER AND ROTAMETER REQUIREMENTS

4 / 0P04 — TYPICAL SEAL WATER PIPING FOR PUMPS
SCALE N.T.S.



Notes:
1. Refer to Manufacturers installation instructions in conjunction with these installation recommendations.
2. Where specific installation conflicts arise which might prevent these installation recommendations from being complied with, consult with the Engineer before proceeding with the installation.
3. Where the drawings indicate dimensions other than those shown on these details, the drawings shall take priority.

5 / 0P04 — MAGNETIC FLOWMETER INSTALLATION
SCALE N.T.S.

6 / 0P04 — SCALE N.T.S.

7 / 0P04 — SCALE N.T.S.

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8 / 0P04 — SCALE N.T.S.

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
4	19 MAY 98	GDB	RECORD DRAWING	KJW					
3	28MAY97	KJW	APPROVED FOR CONSTRUCTION, C.O. 4	CGL					
2	25FEB97	KJW	ISSUED FOR CONSTRUCTION	CGL					
1	JULY 96	KJW	ISSUED FOR GMP TENDER	CGL					

Design
Drawn KJW
Checked
Submitted
Approved

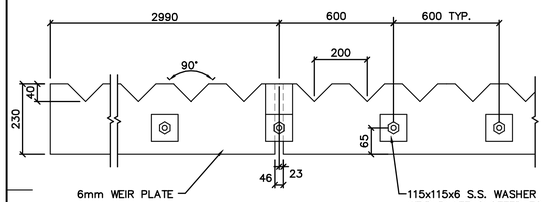
THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 0 – GENERAL SITE
PROCESS
STANDARD DETAILS

Reid Crowther 39844

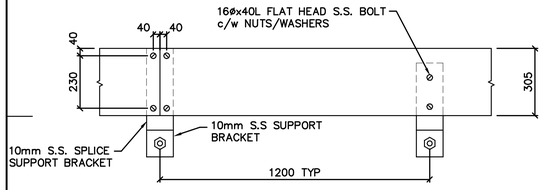
Scale AS NOTED
Date JULY 1996
City File
Sheet of
Drawing 0P04

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 4

DESIGN ENG\TECH
DESIGN COORD.
Plotted 1998-07-15
H:\PROJECTS\ENV\03984400\02A\123A\PROC\0\8440P04
SWWTPA1

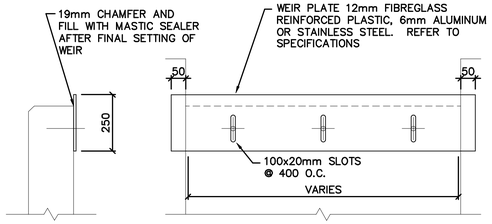


V-NOTCH WEIR INSTALLATION

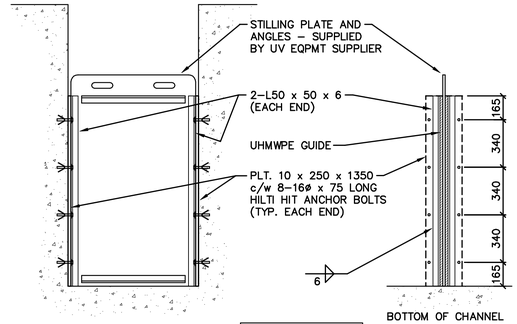


BAFFLE INSTALLATION

1 OP05 WEIR AND BAFFLE PLATE INSTALLATION
SCALE N.T.S.

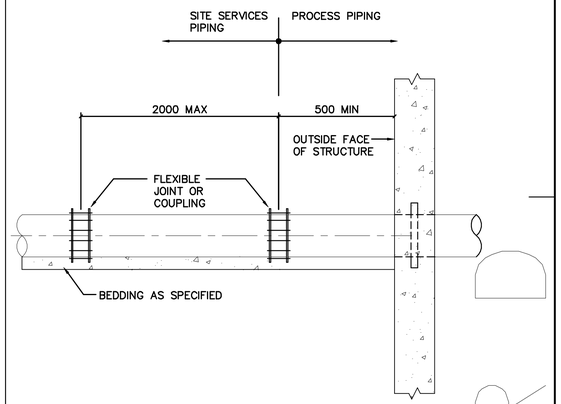


2 OP05 WEIR PLATES
SCALE N.T.S.



NOTE:
ALL PARTS TO BE STAINLESS STEEL OR ALUMINUM UNLESS NOTED.

3 OP05 STILLING PLATE
SCALE N.T.S.



WHERE DETAIL ON DRAWING DIFFERS
THIS STANDARD HAS PRIORITY

4 OP05 UNDERGROUND PIPE CONNECTION TO STRUCTURES
SCALE N.T.S.

5 OP05 SCALE N.T.S.

6 OP05 SCALE N.T.S.

7 OP05 SCALE N.T.S.

6 OP05 SCALE N.T.S.

AS-CONSTRUCTED

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No.	Date	By	Revision	Chkd
4	19 MAY 98	GDB	RECORD DRAWING	KJW
3	28MAY97	KJW	APPROVED FOR CONSTRUCTION, C.O. 4	CGL
2	25FEB97	KJW	ISSUED FOR CONSTRUCTION	CGL
1	JULY 96	KJW	ISSUED FOR GMP TENDER	CGL

Design
Drawn KJW
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 0 – GENERAL SITE
PROCESS
STANDARD DETAILS

Reid Crowther 39844

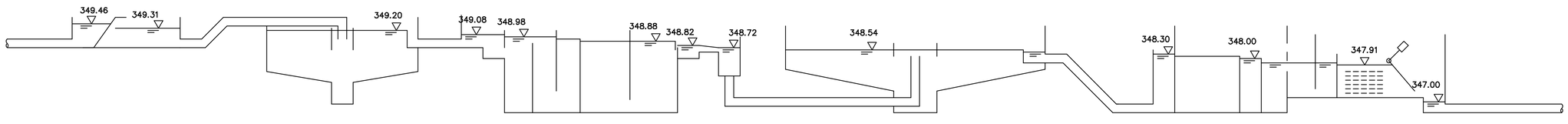
Scale AS NOTED
Date JULY 1996
City File
Sheet of
Drawing OP05

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 4

DESIGN COORD. | DESIGN ENG\TECH

H:\PROJECTS\ENV\0398400\02A\123A\PROC\0\8440P05 Plotted 1998-07-15

SWWTPA1



PEAK FLOW HYDRAULIC PROFILE

RECORD WEIR ELEVATIONS:

PRIMARY CLARIFIER	BOTTOM	349.16
BIOREACTOR	INFLUENT W-3025A	349.00
	ANORIC/AEROBIC W-3040A W-3040B	348.76
	ANORIC/AEROBIC W-3050A W-3050B	348.76
	EFFLUENT W-3200A W-3200B	348.86
SECONDARY CLARIFIER	BOTTOM	348.50
FILTRATION	INFLUENT W-5050A	348.20
	EFFLUENT W-5050B	NO PLATE

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
4	19 MAY 98	GDB	RECORD DRAWING	KJW					
3	28MAY97	KJW	APPROVED FOR CONSTRUCTION, C.O. 4	CGL					
2	25FEB97	KJW	ISSUED FOR CONSTRUCTION	CGL					
1	JULY 96	KJW	ISSUED FOR GMP TENDER	CGL					

Design CGL
Drawn GDS
Checked
Submitted
Approved

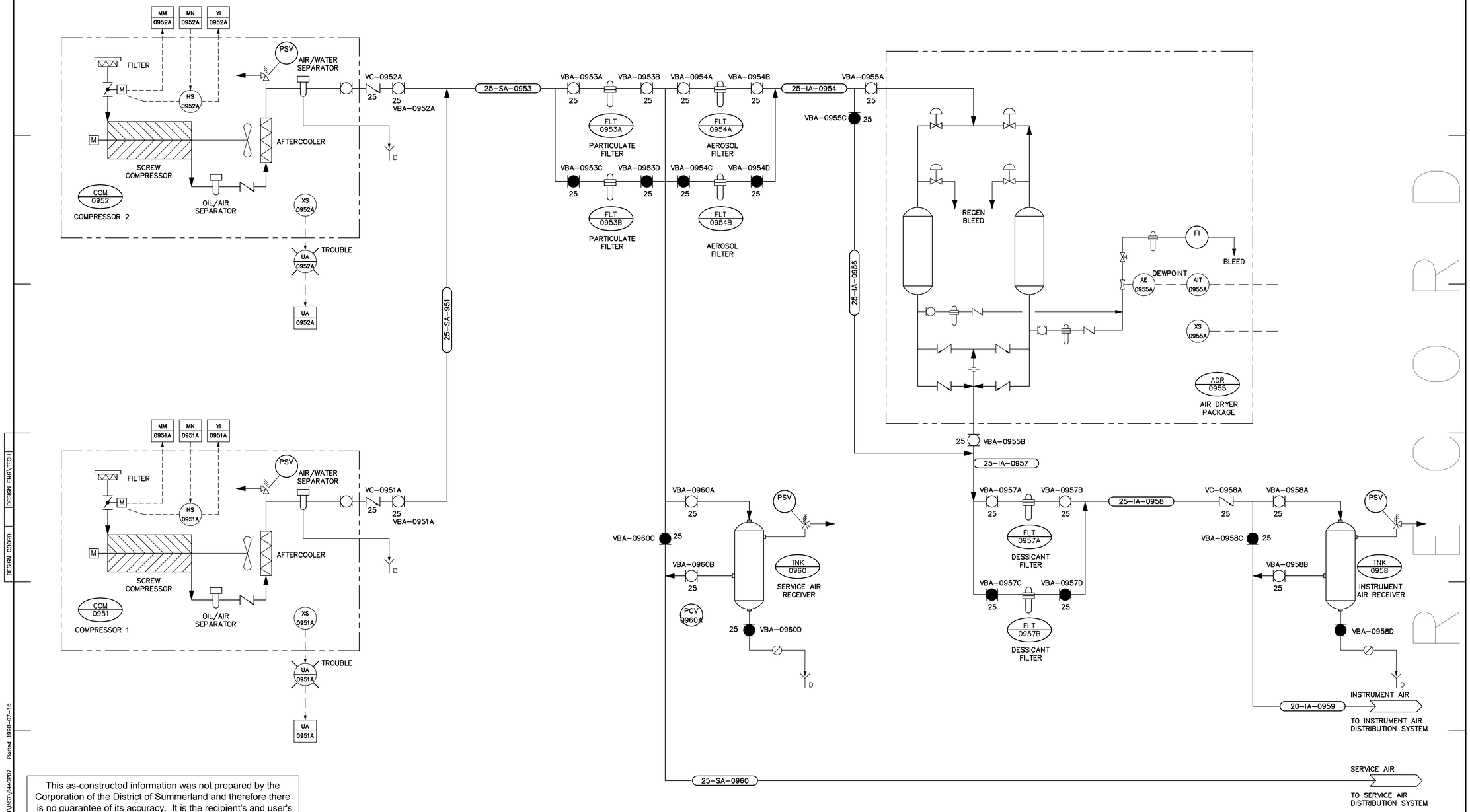
THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 0 – GENERAL SITE
Reid Crowther 39844
PROCESS
HYDRAULIC PROFILE

Scale NONE
Date JUNE 1996
City File
Sheet of
Drawing OP06

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO →

4

DESIGN ENG\TECH | DESIGN COORD. | SWWTP1 H:\PROJECTS\ENV\03984401\02A\123A\PROC\0\9446P06 Plotted 1998-07-15



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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
5	19 MAY 98	DB	RECORD DRAWING	KJW					
4	3JUNE97	KJW	APPROVED FOR CONSTRUCTION, C.O. 4	CGL					
3	28FEB97	KJW	ISSUED FOR CONSTRUCTION	CGL					
2	8JAN97	KJW	WORK IN PROGRESS V.1 (NO CHANGES)	KAC					
1	JULY 96	KJW	ISSUED FOR GMP TENDER	BLC					

Design CGL
Drawn GDS/KJW
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 0 – GENERAL
AIR COMPRESSOR SYSTEM
PIPING AND INSTRUMENTATION DIAGRAM

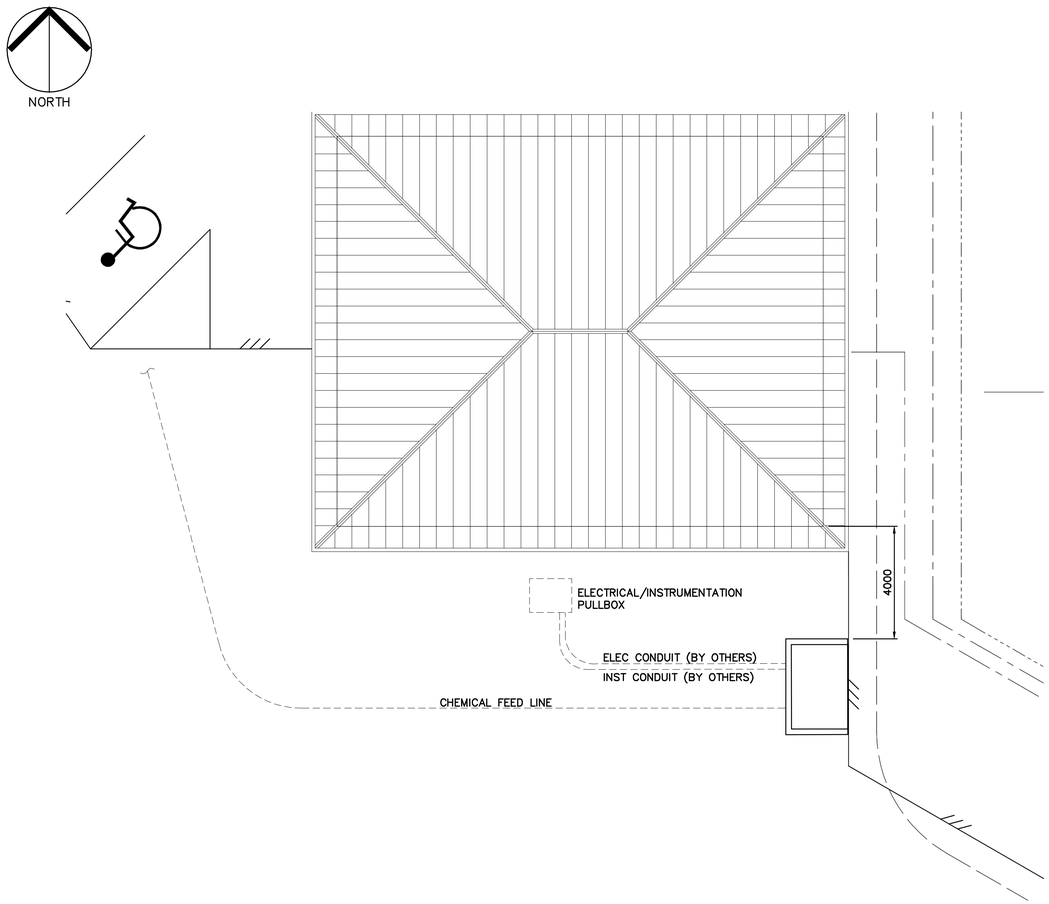
Reid Crowther 39844

Scale AS NOTED
Date MAY 1996
City File
Sheet of
Drawing 0P07

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 5

DESIGN COORD. | DESIGN ENG\TECH | H:\PROJECTS\EW\03884400\02A\123A\WST\8440P07 Plotted 1998-07-15 | SWPTP.A1

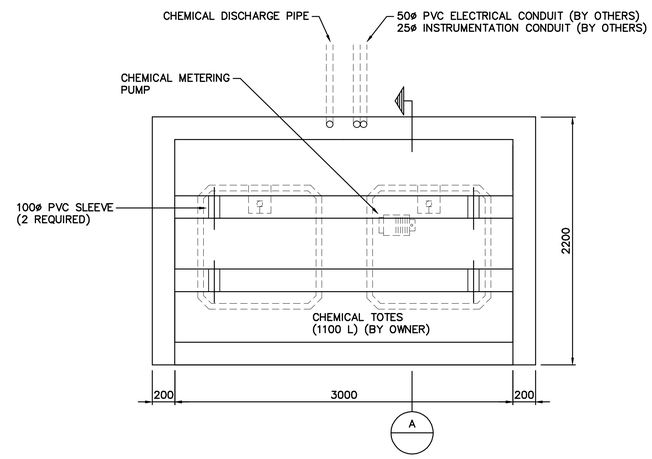
RECORD

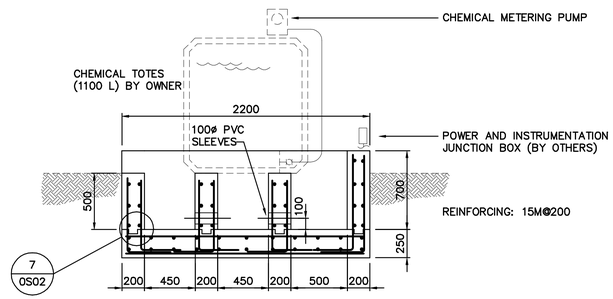


SITE PLAN
1:100

NOTES:

1. REFER TO CONTRACT DOCUMENTS FOR CONCRETE, REINFORCING, BACKFILL AND COMPACTION SPECIFICATIONS.
2. DOSING SYSTEM FOR FERRIC CHLORIDE. WATSON–MARLOW PERISTALTIC PUMP MODEL 313SD c/w #17 TUBING. CONTACT: SMITH–CAMERON INDUSTRIAL (RANDY SMITH) #18, 13478–78TH AVENUE, SURREY, BC 1–800–663–5841





A SECTION

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RECORD

No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
3	19 MAR 98	GDB	RECORD DRAWING	KJW					
2	09FEB98	KJW	RE–ISSUED FOR CCN5 (CONTRACT 2)	KJW					
1	12DEC97	KJW	ISSUED WITH CCN41	KJW					

Design KJW
Drawn KJW
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 0 – GENERAL
FERRIC CHLORIDE DOSING SYSTEM
DETAILS
SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO

Reid Crowther
39844

Scale AS SHOWN
Date DEC 1997
City File
Sheet of
Drawing 0P08
3

DESIGN COORD.
DESIGN ENG\TECH
SWWTPA1 H:\PROJECTS\DWG\0288400\02A\123A\PROC\0_8440P08 Plotted 1998-07-15

1. GENERAL NOTES

1.1 KEEP ACCURATE AS-BUILT RECORDS OF ALL NEW WORKS.

1.2 CONTRACTOR TO EXAMINE ALL DRAWINGS THOROUGHLY (PROCESS, STRUCTURAL, MECHANICAL, ELECTRICAL AND INSTRUMENTATION), AND VERIFY ALL DIMENSIONS AND DETAILS PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE CONTRACT ADMINISTRATOR IMMEDIATELY.

1.3 SHOP DRAWINGS TO BE SUBMITTED TO THE CONTRACT ADMINISTRATOR FOR REVIEW PRIOR TO FABRICATION.

1.4 EXCAVATE AND BACKFILL TO LINES AND GRADES AS SHOWN ON THE DRAWINGS AND AS OUTLINED IN THE GEOTECHNICAL REPORT AND THE SPECIFICATIONS.

1.5 DESIGN AND INSTALLATION OF TEMPORARY DEWATERING AND SITE DRAINAGE IS THE RESPONSIBILITY OF THE CONTRACTOR. DESIGN OF DEWATERING SYSTEM SHALL BE PERFORMED BY A QUALIFIED PROFESSIONAL GEOTECHNICAL ENGINEER REGISTERED IN THE PROVINCE OF BRITISH COLUMBIA AND RETAINED BY THE CONTRACTOR FOR THAT PURPOSE. DEWATERING SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE RECOMMENDATIONS INCLUDED IN THE GEOTECHNICAL REPORT PREPARED BY GOLDER ASSOCIATES.

"THE CORPORATION OF THE
DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT

REPORT ON GEOTECHNICAL INVESTIGATION
SEWAGE TREATMENT FACILITY
(REF. NO. 962-4059

JULY 15, 1996"

1.6 ALL WORK TO BE DONE IN ACCORDANCE WITH THE BRITISH COLUMBIA BUILDING CODE, 1992 EDITION. FACILITIES HAVE BEEN DESIGNED IN ACCORDANCE WITH THE BRITISH COLUMBIA BUILDING CODE, AND ACI 350: "ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES".

1.7 BACKFILLING AGAINST BELOW-GRADE WALLS IS NOT ALLOWED UNTIL ALL PERMANENT BRACING SYSTEMS HAVE BEEN INSTALLED. (IE: FLOOR SLABS AND/OR ROOF STRUCTURES, AS APPLICABLE.)

1.8 ALL STOPLOG GATE OPENINGS SHALL BE COVERED WITH SEALED COVER PLATES, IN ACCORDANCE WITH STANDARD DETAILS, UNLESS NOTED OTHERWISE.

1.9 DESIGN LOADS:

1.9.1 GROUND SNOW LOAD	1.8 kPa
1.9.2 1/30 HOURLY WIND PRESSURE	0.43 kPa
1.9.3 FOR DEAD & LIVE FLOOR & ROOF LOAD REFER TO DWG. FOR EACH STRUCTURE	4.0 kPa

1.10 LIVE LOADS:

1.10.1 BASEMENT FLOOR SLABS	12 kPa
1.10.2 WALKWAYS, STAIRS, FLOOR SLABS, U.N.O.	4.8 kPa

1.11 ALL MATERIALS TESTING TO BE PERFORMED BY AN INDEPENDENT TESTING AGENCY APPOINTED AND PAID BY THE OWNER. CONTRACTOR TO CO-OPERATE AND COORDINATE SUCH TESTING WITH THE TESTING AGENCY. WORK NOT COMPLYING WITH THE REQUIREMENTS OF THE CONTRACT SHALL BE REMOVED AND RECONSTRUCTED BY THE CONTRACTOR AT NO EXTRA COST TO THE OWNER.

1.12 SITE SURVEY AND LAYOUT IS CONTRACTOR'S RESPONSIBILITY. ACCURACY OF SAME IS CONTRACTOR'S RESPONSIBILITY. REMEDIAL ACTION RESULTING FROM INACCURACIES WILL BE AT CONTRACTOR'S OWN EXPENSE.

1.13 BUILDING CONTROL LINES, REFERENCE LINES, GRID LINES AND TEMPORARY BENCH MARKS SHALL BE CLEARLY IDENTIFIED AND MAINTAINED BY THE CONTRACTOR DURING THE ENTIRE CONSTRUCTION PERIOD.

1.14 ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED. THE CONTRACTOR SHALL VERIFY DIMENSIONS BEFORE CONSTRUCTION AND REPORT DISCREPANCIES BEFORE PROCEEDING WITH THE WORK. DO NOT SCALE DRAWINGS.

1.15 DRAWINGS SHOW COMPLETED STRUCTURES ONLY. PROVIDE TEMPORARY BRACING FOR CONSTRUCTION LOADING CONDITIONS AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN LOADS.

1.16 ALL ELEVATIONS ON DRAWINGS ARE GEODEDIC ELEVATIONS.

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2. CONCRETE

2.1 ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH CSA STANDARDS CAN/CSA-A23.1, -A23.2 AND -A23.3, LATEST EDITION AND ALL APPLICABLE ACI GUIDELINES, AS NOTED IN SPECIFICATIONS. SEE SPECIFICATIONS FOR REQUIRED CONCRETE MIX DESIGNS

2.2 CONTRACTOR TO NOTIFY CONTRACT ADMINISTRATOR 24 HOURS IN ADVANCE OF ALL CONCRETE POURS.

2.3 THE USE OF CALCIUM CHLORIDE WILL NOT BE PERMITTED.

2.4 NO FLYASH IS PERMITTED IN ANY CONCRETE.

2.5 MAXIMUM LENGTH OF POUR FOR FOUNDATIONS OR SLABS OR BEAMS SHALL BE 10 METRES OR AS SHOWN ON DRAWINGS. ANY PROPOSED CHANGES OR ADDITIONS TO CONSTRUCTION JOINT LOCATIONS TO BE SUBMITTED FOR REVIEW TO THE CONTRACT ADMINISTRATOR MINIMUM TWO WEEKS PRIOR TO CONSTRUCTION.

2.6 ALL EXPOSED EDGES ARE TO HAVE 25mm CHAMFER UNLESS NOTED OTHERWISE.

2.7 HEATING AND HOARDING WHEN REQUIRED SHALL BE PROVIDED AT NO EXTRA COST TO THE OWNER.

2.8 INTENTIONALLY ROUGHENED JOINTS: WHERE NOTED, THOROUGHLY CLEAN THE HORIZONTAL CONSTRUCTION JOINT, REMOVING ALL LAITANCE AND PARTIALLY EXPOSING AGGREGATE, TO PRODUCE A SURFACE WITH A ROUGHNESS AMPLITUDE OF APPROXIMATELY 6 mm. INSTALL WATERSTOP AND APPLY A BONDING AGENT (STERNSON ST-431 OR APPROVED EQUIVALENT) TO THE ROUGHENED SURFACE IMMEDIATELY PRIOR TO THE NEXT POUR, IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

2.9 ALL SURFACES IN CONTACT WITH INFLUENT, EFFLUENT OR OTHER PROCESS LIQUID, SHALL BE TREATED WITH TWO COATS OF A SILANE SEALER IN ACCORDANCE WITH THE SPECIFICATIONS. ALL FLOOR SLABS SHALL BE TREATED WITH A SILANE SEALER.

2.10 GAS-PROOF COATING: WHERE NOTED ON THE DRAWINGS, PROVIDE A NOVOLAC EPOXY COATING. SEE SPEC. SECTION 09830.

2.11 VERIFY SIZE AND LOCATION OF ALL MECHANICAL OPENINGS, CURBS, EQUIPMENT PADS WITH MECHANICAL DRAWINGS AND MECHANICAL CONTRACTOR. (MAJOR OPENINGS NOT SHOWN TO BE VERIFIED WITH ENGINEER.

3. REINFORCING STEEL

3.1 ALL REINFORCING TO BE NEW BILLET STEEL DEFORMED BARS, CONFORMING TO CSA G30.12 GRADE 400. TIES & STIRRUPS, CONFORMING TO CSA G30.12 GRADE 300.

3.2 REINFORCING SHALL HAVE THE FOLLOWING CONCRETE COVER, UNLESS NOTED OTHERWISE:

3.2.1 SURFACES IN CONTACT WITH GROUND	75mm
3.2.2 ALL VERTICAL SURFACES	50mm
3.2.3 SOFFITS OF STRUCTURAL SLABS	25mm

3.3 ALL REINFORCING BARS TO BE TENSION LAP SPLICES CLASS C UNLESS NOTED OTHERWISE.

3.4 ALL HOOKED BARS TO BE STANDARD HOOKS UNLESS NOTED OTHERWISE.

3.5 SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH THE SPECIFICATIONS.

3.6 REINFORCING WORK SHALL BE IN ACCORDANCE WITH CSA CAN3-A23.1 AND CSA CAN3-A23.3

3.7 REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE LATEST EDITION OF THE ACI DETAILING MANUAL OR THE REINFORCING STEEL INSTITUTE OF CANADA DETAILING MANUAL.

4. PRECAST CONCRETE

4.1 DESIGN, FABRICATION AND ERECTION TO CSA A23.4-M78 AND ACI A135. DESIGN LOADS AS SHOWN ON DRAWINGS.

4.2 THE MANUFACTURER OF PRECAST CONCRETE UNITS SHALL BE CERTIFIED IN ACCORDANCE WITH CSA STANDARD A251.

4.3 FABRICATE HOLLOW CORE TO CSA A23.1 TO .4, CAPABLE TO SUPPORT LOADINGS INDICATED. LIVE LOAD DEFLECTIONS NOT TO EXCEED 1/360 OF THE SPAN.

4.4 GROUT FOR HOLLOW CORE SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 30 MPa.

4.6 PRECAST SUPPLIER TO SUBMIT SHOP & ERRECTION DRAWINGS FOR REVIEW.

4.7 PRECAST SUPPLIER TO CHECK WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR OPENINGS AND PROVIDE DESIGN WHERE NECESSARY. STEEL FRAMING AT OPENINGS TO BE SUPPLIED BY PRECAST FABRICATOR.

4.9 NOTIFY ENGINEER PRIOR TO PROVIDING ANY OPENINGS IN HOLLOW CORE IN THE FIELD. OPENINGS SHALL BE PLACED THROUGH VOIDS ONLY. UNDER NO CIRCUMSTANCES WILL PRESTRESS STRANDS IN HOLLOW CORE BE SEVERED WITHOUT WRITTEN APPROVAL OF ENGINEER AND PRECAST SUPPLIER

5. METALS

5.1 STRUCTURAL STEEL, ALUM. AND MISC. DETAILS, CONNECTIONS AND FABRICATION TO BE PERFORMED IN ACCORDANCE WITH CSA STANDARD CSA S16. ALL CONNECTIONS SHALL HAVE A MIN. OF 2-20 DIA. A325 BOLTS.

5.2 SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH THE SPECIFICATIONS.

5.3 MECHANICAL EXPANSION ANCHORS FOR EQUIPMENT SHALL NOT BE ALLOWED. ONLY ADHESIVE RESIN ANCHORS WILL BE PERMITTED.

6. MASONRY

6.1 MASONRY WORK SHALL CONFORM TO CSA CAN3-S304, CAN3-A371 AND TO DETAILS SHOWN ON DRAWINGS.

6.2 MASONRY WALLS TO BE PROPERLY BRACED UNTIL ROOF STRUCTURE IS COMPLETED.

6.3 CONCRETE BLOCKS TO HAVE A MINIMUM UNIT COMPRESSIVE STRENGTH OF 15 MPa., (BASED ON NET AREA) CONFORMING TO CSA A165 SERIES -94.

6.4 MORTAR TO BE TYPE S, HAVING MINIMUM 10 MPa COMPRESSIVE STRENGTH, IN ACCORDANCE WITH CSA STANDARD A179-M1979.

6.5 LOAD BEARING WALLS (U.N.O.): REINFORCE AS NOTED ON THE DRAWINGS; PROVIDE EXTRA 15M VERTICAL BARS AT UNSUPPORTED ENDS OF WALLS, AT EACH CORNER OR INTERSECTION, AND EACH SIDE OF DOORS, WINDOWS AND OTHER OPENINGS. PROJECT HORIZ. BARS 400mm BEYOND OPENING.

6.6 ALL VERTICAL FILL TO BE PLACED IN LIFTS NOT EXCEEDING 1500mm.

6.7 FILL CELLS CONTAINING VERTICAL OR HORIZONTAL REINFORCING AND CAST-IN-PLACE OR DRILLED ANCHORS WITH 25MPa. CONCRETE, 10mm MAX. AGGREGATE, 150mm SLUMP.

6.8 LINTELS FOR BLOCK WALLS (U.N.O.):

5.8.1 OPENINGS UP TO 1600mm - USE NOMINAL 400 mm DEEP LINTEL BLOCK, FILL WITH CONCRETE 2 COURSES DEEP, REINFORCE WITH 2-20M BARS BOTTOM.
5.8.2 SEE STD. DETAILS AND DRAWINGS FOR OPENINGS GREATER THAN 2400.

6.9 BOND BEAMS (U.N.O.):

5.9.1 AT TOP OF BLOCK WALLS, PROVIDE NOMINAL 200 mm DEEP BOND BEAM REINFORCED WITH 2-15M BARS.

6.10 NO MASONRY WORK SHALL BE PERMITTED WHEN AIR TEMPERATURE IS BELOW 5 C. UNLESS PROVISIONS ARE MADE FOR HEATING THE MATERIAL AND PROTECTING THE WORK FROM COLD.

6.11 ALL KNOCK-OUT PANELS SHALL INCLUDE 15M AT 400 o.c. VERTICALS AND 10M AT 200 o.c. HORIZONTALS. FACES EXPOSED TO EFFLUENT SHALL BE COMPLETLY WATERPROOFED WITH A SUITABLE ELASTOMERIC URETHANE COATING.

7. ABBREVIATIONS

@	AT	mm	MILLIMETER
ALUM	ALUMINUM	NTS	NOT TO SCALE
A.I.F.B.	ASPHALT IMPREGNATED FIBREBOARD	No.	NUMBER
		O.C. or O/C	ON CENTER
B or BOT	BOTTOM	OPNG.	OPENING
B.W.	BOTH WAYS	O/O	OUT TO OUT
BLDG	BUILDING	O.F.	OUTSIDE FACE
C	CENTER LINE	R	RADIUS
C/W	COMPLETE WITH	REINF.	REINFORCE or REINFORCEMENT
CONC.	CONCRETE	R/W	REINFORCE WITH
C.J.	CONSTRUCTION JOINT	SHT.	SHEET
CONT.	CONTINUOUS	S.J.	SLAB CONTROL JOINT
CL	CLEAR	STD.	STANDARD
DP	DEEP	S.F.	STEP FOOTING
DIA.	DIAMETER	STIRR.	STIRRUP
DWG	DRAWING	STR.	STRAIGHT
DWL	DOWEL	TYP	TYPICAL
EA.	EACH	T.H.	TEST HOLE
E.F.	EACH FACE	T.O.	TOP OF
E.W.	EACH WAY	TUL	TOP UPPER LAYER
EQ.SP.	EQUAL SPACE	TLL	TOP LOWER LAYER
EL. or ELEV.	ELEVATION	BUL	BOTTOM UPPER LAYER
E.J.	EXPANSION JOINT	BLL	BOTTOM LOWER LAYER
EXIST	EXISTING	U/N	UNLESS NOTED
F.O.C.	FACE OF CONCRETE	U.N.O.	UNLESS NOTED OTHERWISE
GRAN.	GRANULAR	U/S	UNDERSIDE
HORIZ	HORIZONTAL	VERT	VERTICAL
I.F.	INSIDE FACE	W	WIDTH
MAX	MAXIMUM	W/	WITH
MIN	MINIMUM		

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Design GDH
Drawn BWP
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT

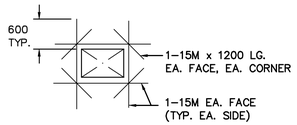
Reid Crowther
39844

STRUCTURAL STANDARD DETAILS
GENERAL NOTES

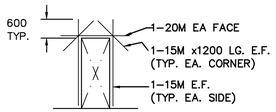
Scale N.A.
Date JUNE 1996
City File
Sheet 1 of 9
Drawing OS01

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 4

DESIGN ENG\TECH | DESIGN COORD. | Plotted 1998-07-15 | SWTP.A1 H:\PROJECTS\ENV\03984400\02A\123A\STRUCT\OS01



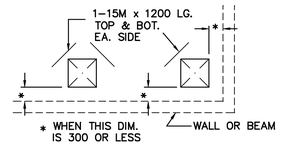
ELEVATION SHOWING EXTRA REINF.
AROUND WALL OPENINGS



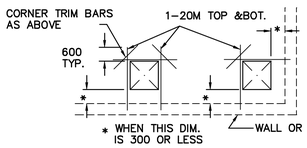
ELEVATION SHOWING EXTRA REINF.
AROUND DOORWAY (MAX. OPNG. WIDTH= 2000)

NOTES:
1. NUMBER OF REINF. BARS CUT TO BE KEPT AT A MINIMUM. DEFLECT AS MANY BARS AS POSSIBLE AROUND OPENING.
2. REINF. BARS TO BE KEPT 50mm CLEAR OF OPENING.
3. CIRCULAR OPENINGS TO BE TREATED IN THE SAME MANNER AS RECTANGULAR OPENINGS.
4. WHERE REINF. SHOWN ON A DWG. DIFFERS FROM THIS STANDARD, THEN THE DWG. HAS PRIORITY.

1 / 0S02 — REINFORCING AROUND WALL OPENINGS — N.T.S.



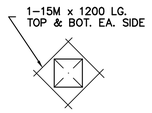
PLAN SHOWING EXTRA REINFORCING
AROUND OPENINGS 150 TO 280



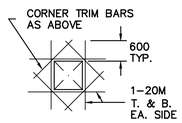
PLAN SHOWING EXTRA REINFORCING
AROUND OPENINGS 300 TO 760

NOTES:
1. NUMBER OF REINF. BARS CUT TO BE KEPT AT A MINIMUM. DEFLECT AS MANY BARS AS POSSIBLE AROUND OPENING.
2. REINF. BARS TO BE KEPT 50mm CLEAR OF OPENING.
3. CIRCULAR OPENINGS TO BE TREATED IN THE SAME MANNER AS RECTANGULAR OPENINGS.
4. FOR REINF. AROUND A HOLE LARGER THAN 760mm IN ANY DIRECTION, SEE SLAB REINF. DWG.
5. WHERE REINF. SHOWN ON A DWG. DIFFERS FROM THIS STANDARD, THEN THE DWG. HAS PRIORITY.

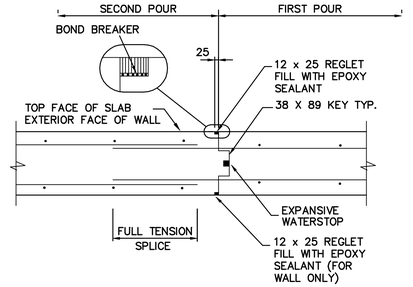
2 / 0S02 — REINFORCING AROUND OPENINGS IN SLAB — N.T.S.



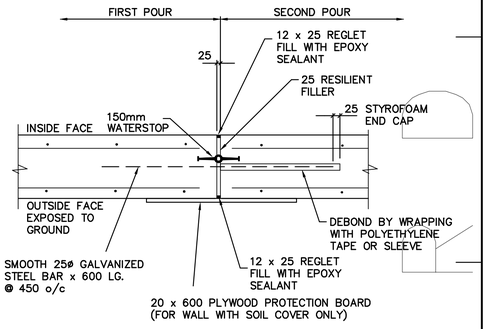
WHEN OPENING IS MORE THAN 300 FROM BEAM OR WALL



WHEN OPENING IS MORE THAN 300 FROM BEAM OR WALL



3 / 0S02 — CONC. SLAB & WALL CONSTRUCTION JOINT (C.J.) — N.T.S.



4 / 0S02 — CONC. SLAB & WALL EXPANSION JOINT (E.J.) — N.T.S.

WHERE DETAILS SHOWN ON DRAWING DIFFERS FROM THIS STANDARD, THEN THE DRAWING HAS PRIORITY.

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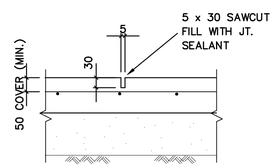
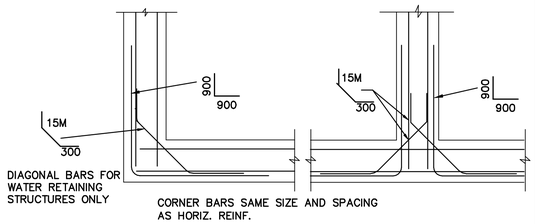
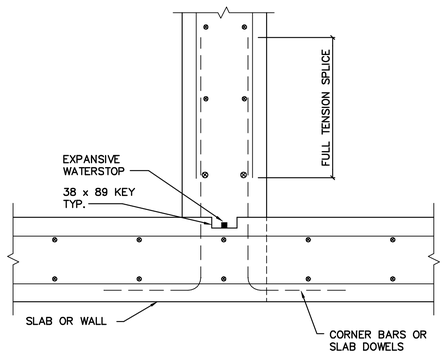


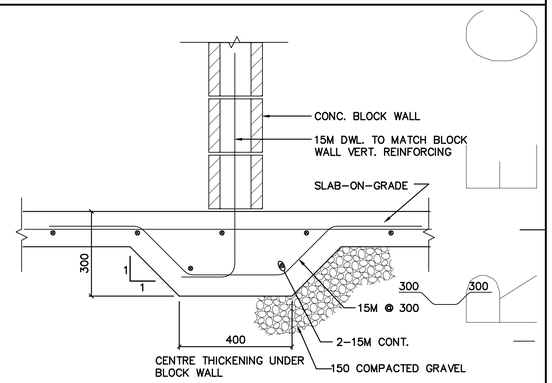
5 / 0S02 — SLAB ON GRADE CONTROL JOINT DETAIL (S.J.) — N.T.S.



DETNO / DWGREF — TYPICAL CORNER BAR DETAIL — SCALE



7 / 0S02 — SLAB & WALL INTERSECTION JOINT — N.T.S.



8 / 0S02 — TYP. SLAB THICKENING — N.T.S.

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Design GDH
Drawn BWP
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT

Reid Crowther 39844

STRUCTURAL STANDARD DETAILS

Scale NTS
Date JUNE 1996
City File
Sheet 2 of 9
Drawing 0S02

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 4

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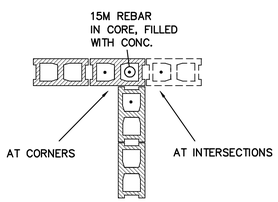
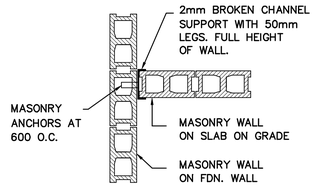
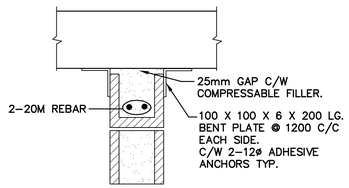
SWWTP1 H:\PROJECTS\ENV\03984400\02A\1234\STRUCT\QA\0S02 Plotted 1998-07-15



A VERTICAL REINFORCING
N.T.S.



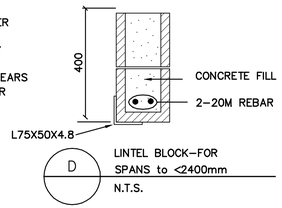
B INTERSECTING WALL
BROKEN CHANNEL SUPPORT
N.T.S.



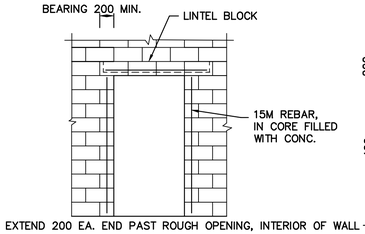
C WALL TO ROOF CONNECTION
N.T.S.

NOTES

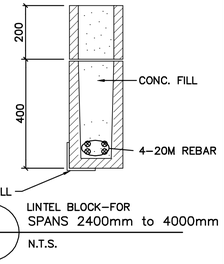
1. CONCRETE BLOCK VERTICAL REINF. AS PER DETAIL 'A' SHALL BE INSTALLED AT ALL CORNERS IN BLOCK WALLS AND AT END OF BLOCK WALLS.
2. BROKEN CHANNEL SUPPORTS AS PER DETAIL 'B' SHALL BE INSTALLED AT ALL INTERSECTIONS OF MASONRY WALLS WHERE ONE WALL BEARS ON FOUNDATION WALLS & THE OTHER BEARS ON SLAB ON GRADE. SEE PLANS FOR LOCATIONS.
3. ALL CONCRETE FILL SHALL BE 25MPa STRENGTH.



D LINTEL BLOCK–FOR SPANS to <2400mm
N.T.S.

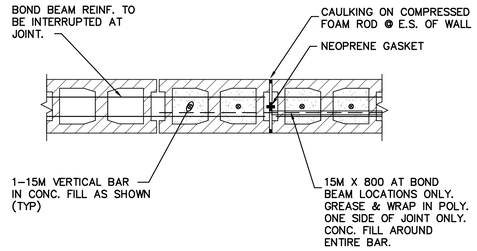


E TYPICAL BEARING FOR CONCRETE BLOCK LINTELS
N.T.S.

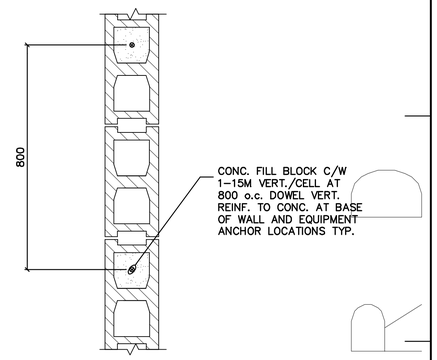


F LINTEL BLOCK–FOR SPANS 2400mm to 4000mm
N.T.S.

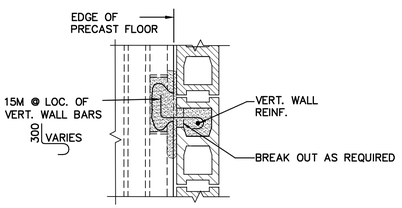
1 / 0S03 TYPICAL CONCRETE BLOCK REINFORCEMENT DETAILS
N.T.S.



2 / 0S03 TYPICAL CONCRETE BLOCK WALL CONTROL JOINT (C.J.)

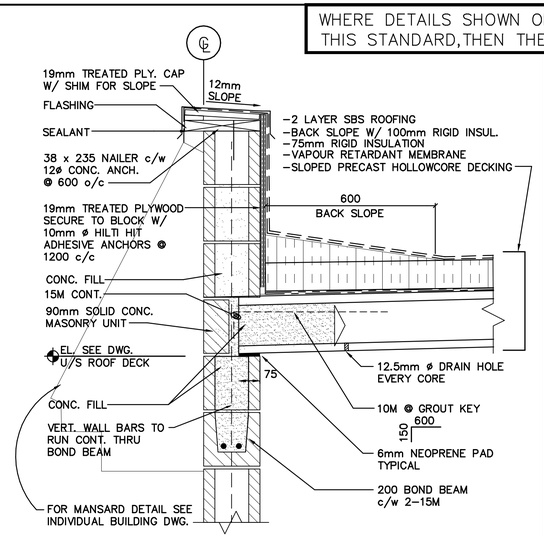


3 / 0S03 TYPICAL PLAN DETAIL SHOWING VERT. MASONRY WALL REINF.

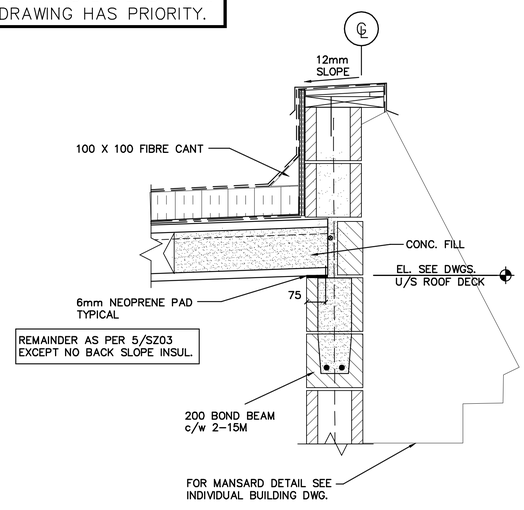


4 / 0S03 HOLLOWCORE PARALLEL TO WALL

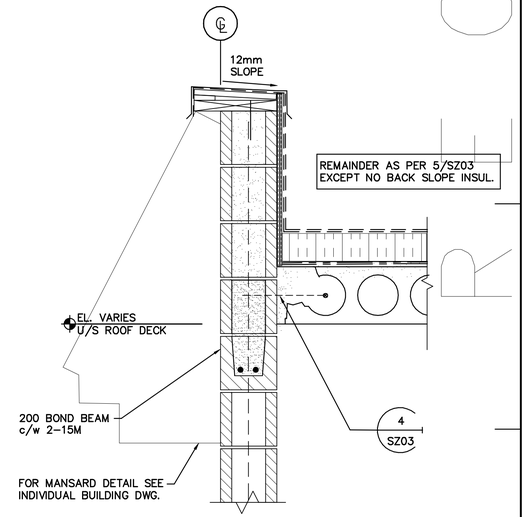
WHERE DETAILS SHOWN ON DRAWING DIFFERS FROM THIS STANDARD, THEN THE DRAWING HAS PRIORITY.



5 / 0S03 200 HOLLOWCORE ROOF CONNECTION TO 190 CONCRETE BLOCK WALL



6 / 0S03 200 HOLLOWCORE ROOF CONNECTION TO 190 CONCRETE BLOCK WALL



7 / 0S03 HOLLOWCORE ROOF CONNECTION PARALLEL TO BLOCK WALL

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Design	GDH
Drawn	BWP
Checked	
Submitted	
Approved	

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT

Reid Crowther 39844

STRUCTURAL STANDARD DETAILS

Scale	NTS
Date	JUNE 1996
City File	
Sheet	3 of 9
Drawing	0S03

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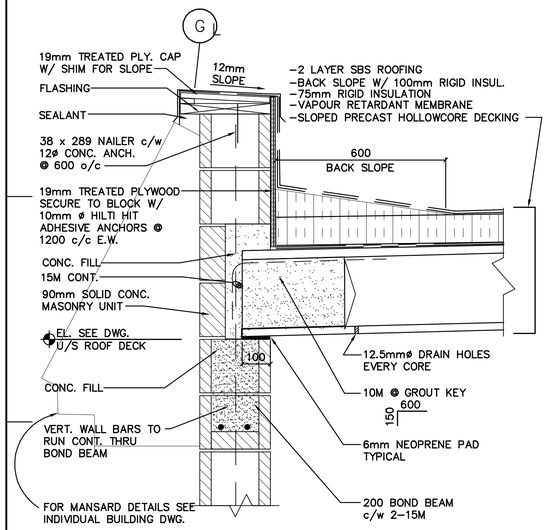
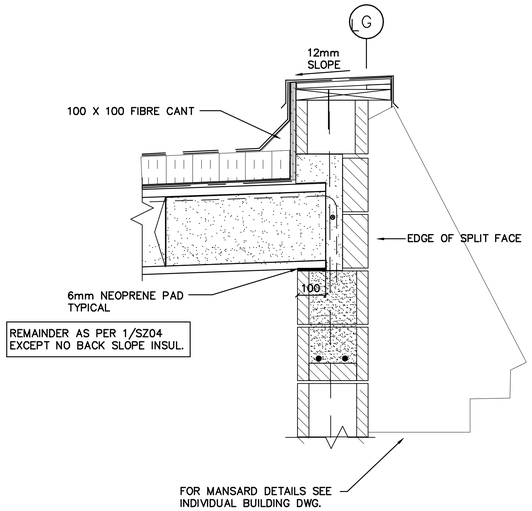
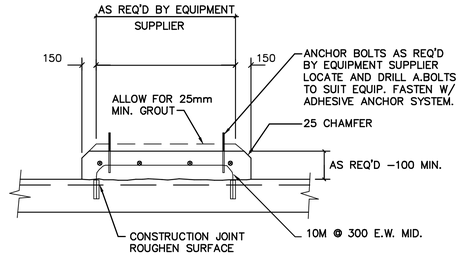


1 / 0S04 — 300 HOLLOWCORE ROOF CONNECTION TO 240 CONCRETE BLOCKWALL



2 / 0S04 — 300 HOLLOWCORE ROOF CONNECTION TO 240 CONCRETE BLOCKWALL

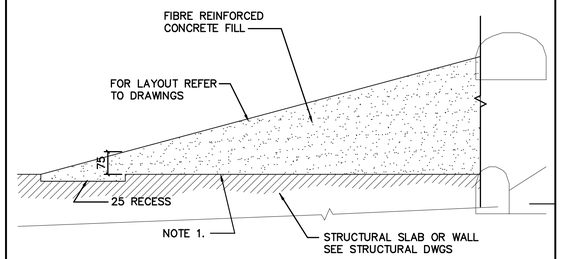


3 / 0S04 — TYP. HOUSE KEEPING PAD

N.T.S.

NOTES

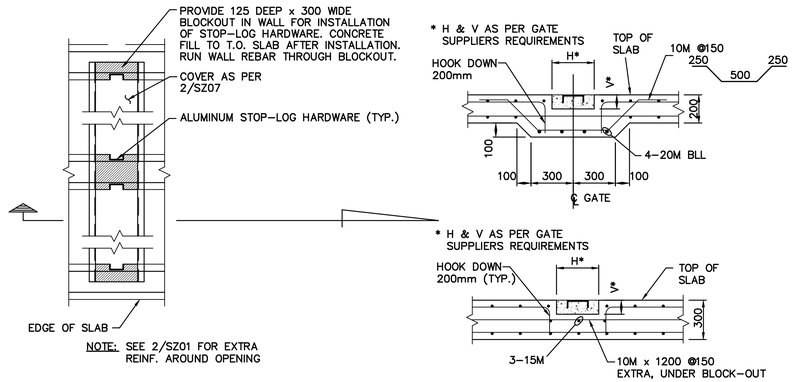
1) PLACE CONCRETE FILL OVER THOROUGHLY CLEANED AND DEGREASED SURFACES.
2) CONTINUE JOINTS FROM UNDERLYING SLABS TO TOP OF FILL.
3) SAWCUT FILL AS NECESSARY TO PREVENT SIGNIFICANT CRACKING AS JUDGED & DIRECTED BY ENGINEER.



CONCRETE FILL IN TANKS, SUMPS OR BENCHING

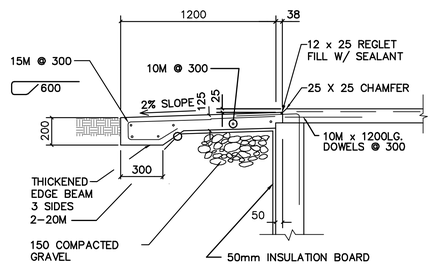
4 / 0S04 — CONCRETE FILL OR GROUT IN TANKS, SUMPS, TUNNELS OR PUMPHOUSE FLOORS

WHERE DETAILS SHOWN ON DRAWING DIFFERS FROM THIS STANDARD, THEN THE DRAWING HAS PRIORITY.



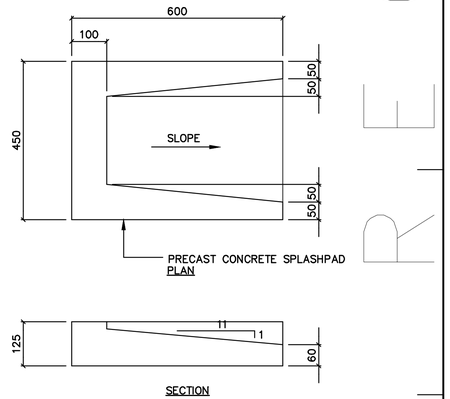
5 / 0S04 — TYPICAL STOPLOG DETAIL

N.T.S.



NOTE:
APRON SHALL BEAR ON BEAM OR WALL IN A RECESS WHICH EXTENDS THE WIDTH OF THE DOOR ONLY
WHERE APRON EXTENDS PAST DOOR JAMBS, INSTALL ISOLATION JOINT AT OUTSIDE FACE OF WALL OR BEAM

6 / 0S04 — TYPICAL CONCRETE APRON AT EXTERIOR DOORS



TYPICAL CONC. SPLASHPAD

7 / 0S04 — TYP. CONCRETE SPLASHPAD AT EXTERIOR DOORS

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4	27MAY98	GDB	RECORD DRAWING	KJW
3	28MAY97	BWP	APPROVED FOR CONSTRUCTION, C.O. 4	GDH
2	FEB 97	BWP	ISSUED FOR CONSTRUCTION	GDH
1	JULY 96	BWP	ISSUED FOR G.M.P. TENDER	GDH

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Design	GDH
Drawn	BWP
Checked	
Submitted	
Approved	

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT

Reid Crowther 39844

STRUCTURAL STANDARD DETAILS

Scale	NTS
Date	JUNE 1996
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Sheet	4 of 9
Drawing	0S04

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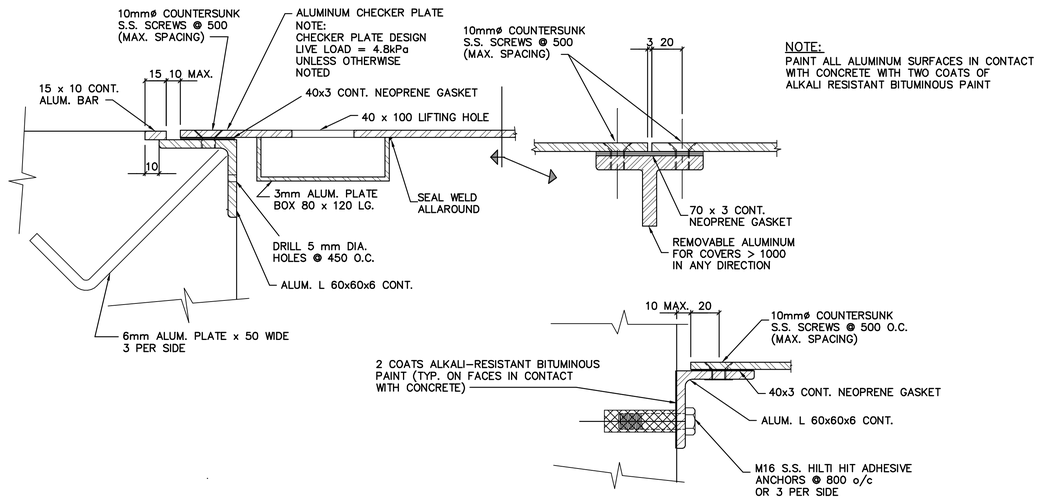
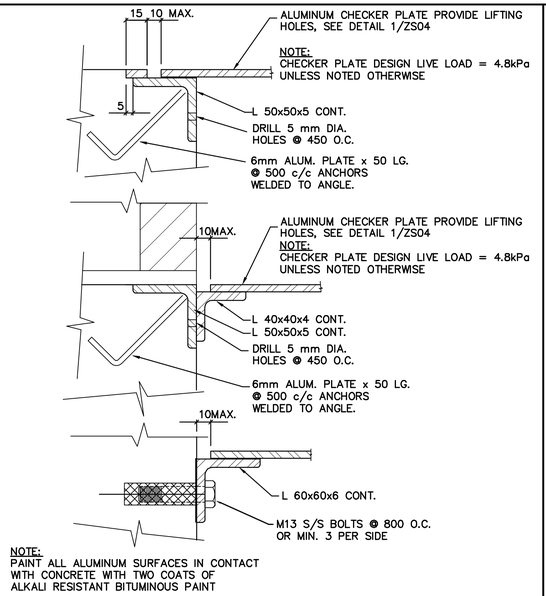
DESIGN COORD. | DESIGN ENG\TECH

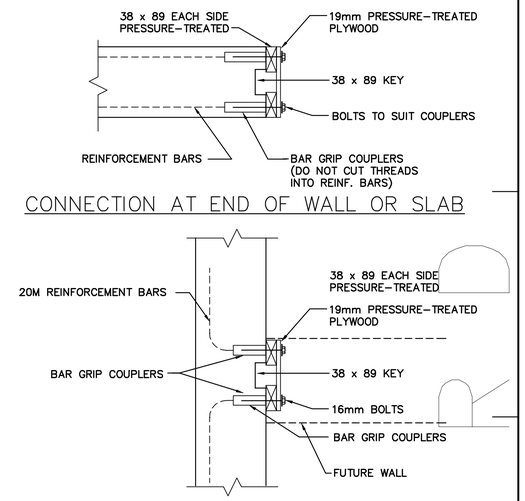
SWWTPA1 H:\PROJECTS\ENV\039844\00\02A\234\STRUCT\0\0S04 Plotted 1998-07-15



1 OS05 ALUM. SEALED COVER & FRAME
N.T.S.

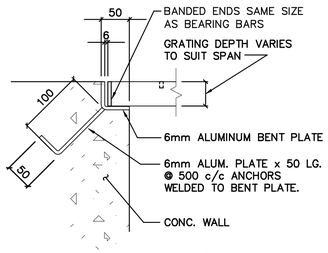


2 OS05 ALUM. COVER & FRAME
N.T.S.



3 OS05 PROTECTION FOR FUTURE CONNECTION
N.T.S.

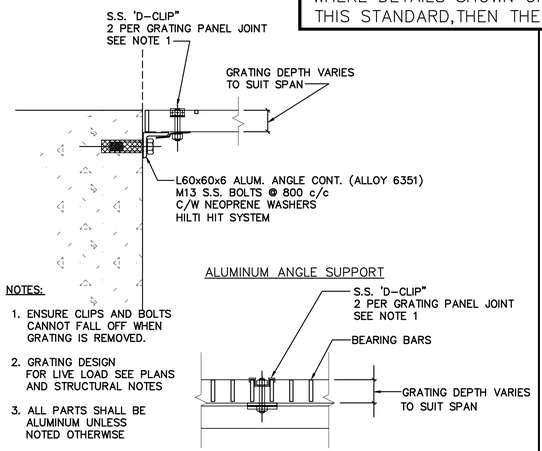
WHERE DETAILS SHOWN ON DRAWING DIFFERS FROM THIS STANDARD, THEN THE DRAWING HAS PRIORITY.



NOTES:

1. GRATING DESIGN FOR LIVE LOAD SEE PLANS AND STRUCTURAL NOTES
2. ALL PARTS SHALL BE ALUMINUM UNLESS NOTED OTHERWISE
3. PAINT ALL ALUMINUM SURFACES IN CONTACT WITH CONCRETE WITH TWO COATS OF ALKALI RESISTANT BITUMINOUS PAINT

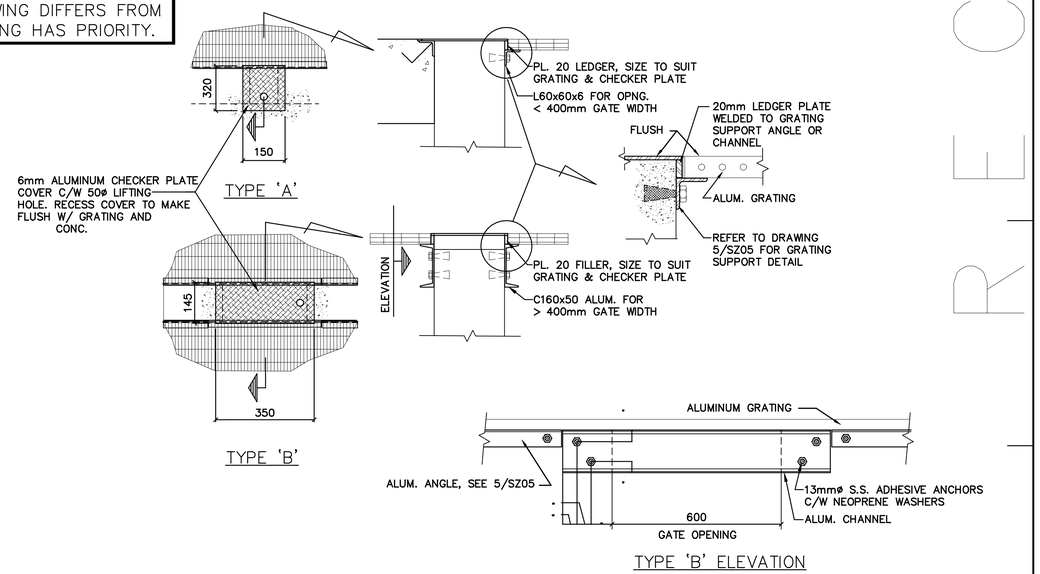
4 OS05 ALUM. GRATING c/w FRAME
N.T.S.



NOTES:

1. ENSURE CLIPS AND BOLTS CANNOT FALL OFF WHEN GRATING IS REMOVED.
2. GRATING DESIGN FOR LIVE LOAD SEE PLANS AND STRUCTURAL NOTES
3. ALL PARTS SHALL BE ALUMINUM UNLESS NOTED OTHERWISE
4. PAINT ALL ALUMINUM SURFACES IN CONTACT WITH CONCRETE WITH TWO COATS OF ALKALI RESISTANT BITUMINOUS PAINT
5. OPENINGS IN GRATING TO BE BANDED WITH SAME SIZE OF PLATE USED FOR BEARING BARS AND GROUNG TO A SMOOTH FINISH. REFER TO MANUFACTURER'S SPEC. FOR MAX. OPENING SIZE.

5 OS05 ALUM. GRATING c/w FRAME
N.T.S.



6 OS05 RECESSED CHECKER PLATE COVERS
N.T.S.

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Drawn	BWP
Checked	
Submitted	
Approved	

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT

Reid Crowther 39844

STRUCTURAL STANDARD DETAILS

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Date	JUNE 1996
City File	
Sheet	5 of 9
Drawing	OS05

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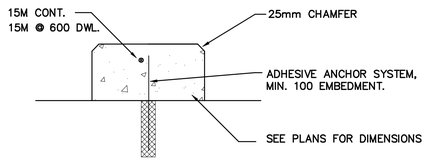
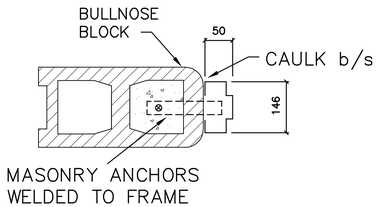
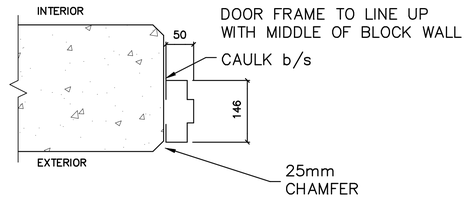
DESIGN ENG\TECH | DESIGN COORD. | Plotted 1998-07-15 | SWWTP.A1 H:\PROJECTS\ENV\03984401\02A\1234\STRUCT\01\0505



1 OS06 TYPICAL CURB DETAIL



BLOCKWALL

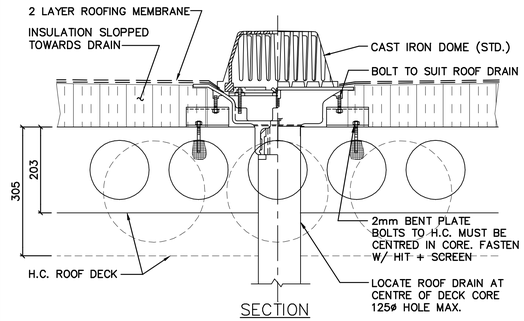


DOOR FRAME TO LINE UP WITH MIDDLE OF BLOCK WALL

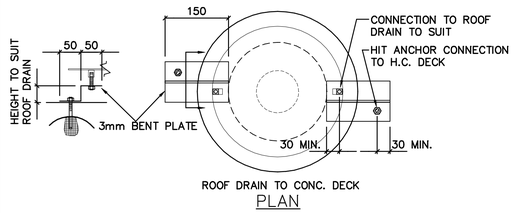
CONC. WALL

ANCHOR DOOR FRAME TO CONC.AS PER SUPPLIERS REQUIREMENTS

2 OS06 TYPICAL MANDOOR FRAME



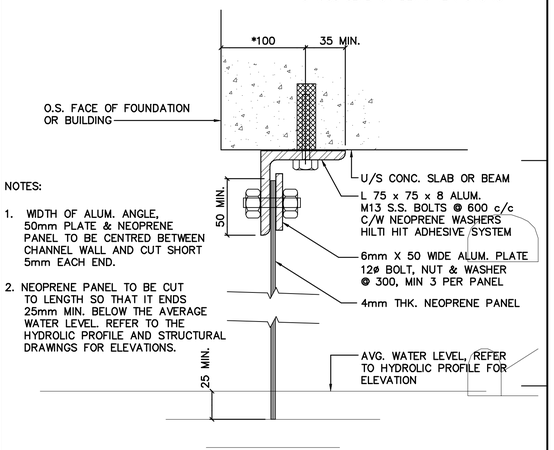
SECTION



PLAN

3 OS06 ROOF DRAIN

* DIMENSION TO BE CONFIRMED. A.BOLTS TO MISS SLAB OR BEAM REINFORCING



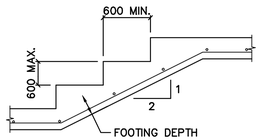
NOTES:

1. WIDTH OF ALUM. ANGLE, 50mm PLATE & NEOPRENE PANEL TO BE CENTRED BETWEEN CHANNEL WALL AND CUT SHORT 5mm EACH END.
2. NEOPRENE PANEL TO BE CUT TO LENGTH SO THAT IT ENDS 25mm MIN. BELOW THE AVERAGE WATER LEVEL. REFER TO THE HYDROLIC PROFILE AND STRUCTURAL DRAWINGS FOR ELEVATIONS.

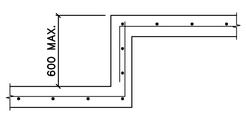
TYP. NEOPRENE AIR BARRIER

4 OS06

WHERE DETAILS SHOWN ON DRAWING DIFFERS FROM THIS STANDARD,THEN THE DRAWING HAS PRIORITY.

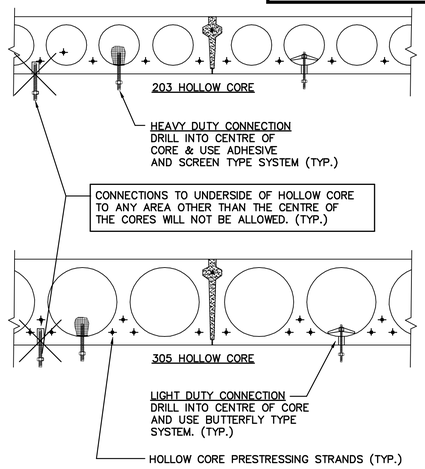


STEPPED FOOTING (S.FTG.1)



STEPPED FOOTING (S.FTG.2)

5 OS06 TYP. STEPPED FOOTING (S.F.)



* NOTE
CONTRACTORS TO REPORT LOADS TO THE STRUCTURAL ENGINEERS PRIOR TO INSTALLATION OF ANY EQUIPMENT REQUIRING CONNECTION TO THE HOLLOW CORE ROOF DECK.

TYP. SUPPORT CONNECTION TO UNDERSIDE OF HOLLOW CORE

6 OS06

DESIGN ENG\TECH | DESIGN COORD. | Plotted 1998-07-15 | SWWTPA1 H:\PROJECTS\SWA\03984400\02A\1234\STRUCT\0\0S06

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Design GDH
Drawn BWP
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT

Reid Crowther 39844

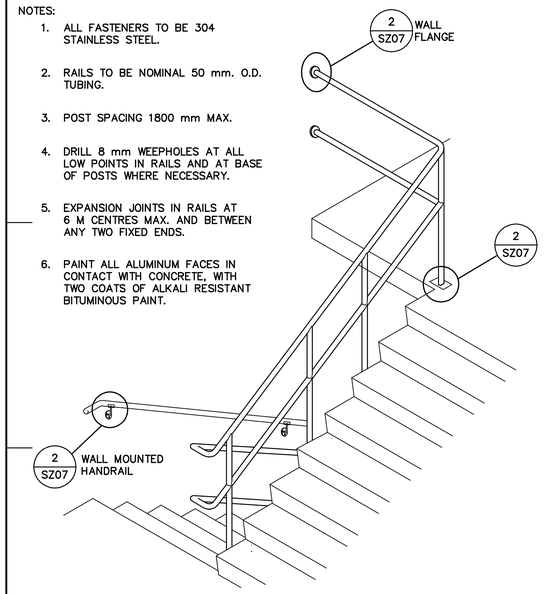
STRUCTURAL STANDARD DETAILS

Scale NTS
Date JUNE 1996
City File
Sheet 6 of 9
Drawing 0S06

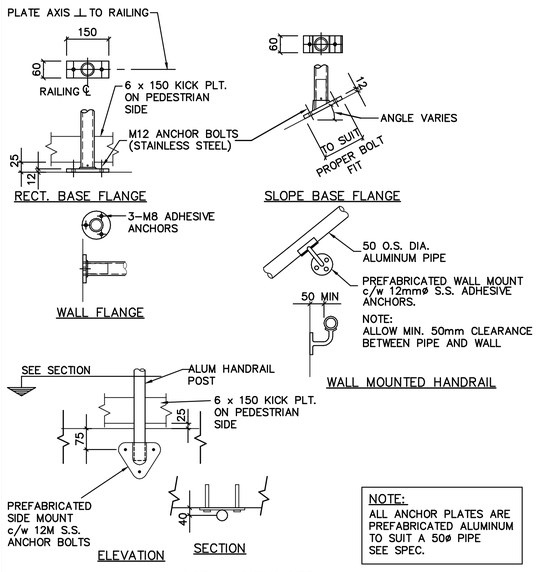
SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 5

NOTES:

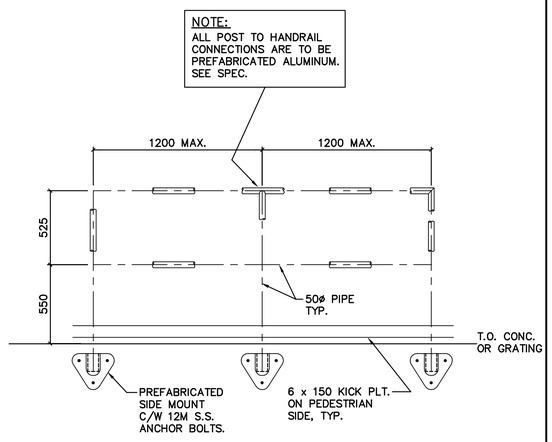
1. ALL FASTENERS TO BE 304 STAINLESS STEEL.
2. RAILS TO BE NOMINAL 50 mm. O.D. TUBING.
3. POST SPACING 1800 mm MAX.
4. DRILL 8 mm WEEPHOLES AT ALL LOW POINTS IN RAILS AND AT BASE OF POSTS WHERE NECESSARY.
5. EXPANSION JOINTS IN RAILS AT 6 M CENTRES MAX. AND BETWEEN ANY TWO FIXED ENDS.
6. PAINT ALL ALUMINUM FACES IN CONTACT WITH CONCRETE, WITH TWO COATS OF ALKALI RESISTANT BITUMINOUS PAINT.



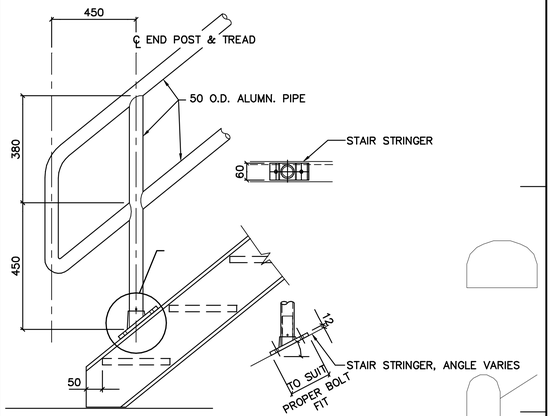
1 0S07 TYPICAL ALUMINUM RAILING
N.T.S.



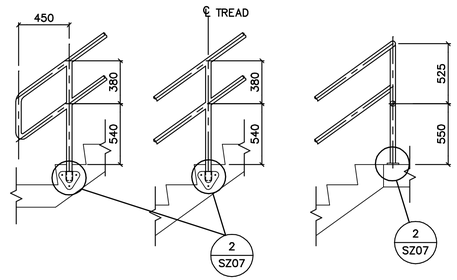
2 0S07 ALUMINUM RAILING
CONCRETE CONNECTION DETAILS



3 0S07 TYP. HANDRAIL DETAIL
N.T.S.



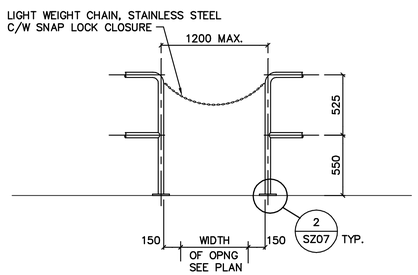
4 0S07 HANDRAIL TO METAL STAIR CONNECTION
N.T.S.



NOTE:
DIMENSIONS TYP. FOR SIDE-MOUNT & TREAD-MOUNT CONNECTIONS

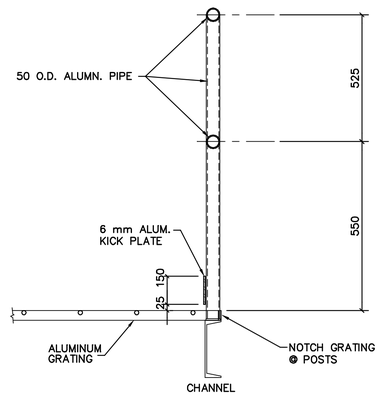
5 0S07 ALUMINUM RAILING
ON CONCRETE STAIR

WHERE DETAILS SHOWN ON DRAWING DIFFERS FROM THIS STANDARD, THEN THE DRAWING HAS PRIORITY.



SAFETY CHAIN OPENING

6 0S07 SAFTEY CHAIN OPENING
N.T.S.



7 0S07 HANDRAIL ON PLATFORM
N.T.S.

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Design GDH
Drawn BWP
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT

Reid Crowther 39844

STRUCTURAL STANDARD DETAILS

Scale NTS
Date JUNE 1996
City File
Sheet 7 of 9
Drawing 0S07

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SWWTP.A1 H:\PROJECTS\ENV.03984401\02A\123A\STRUCT\0\0S07 Plotted 1998-07-15

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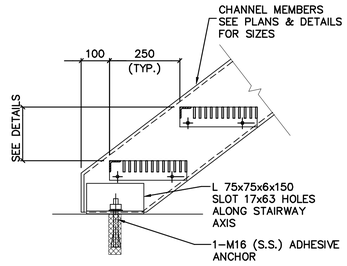
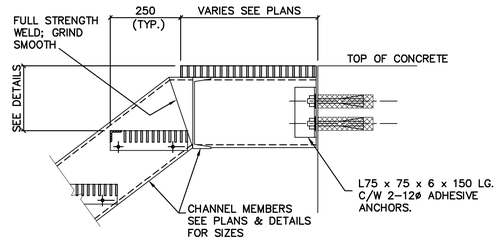
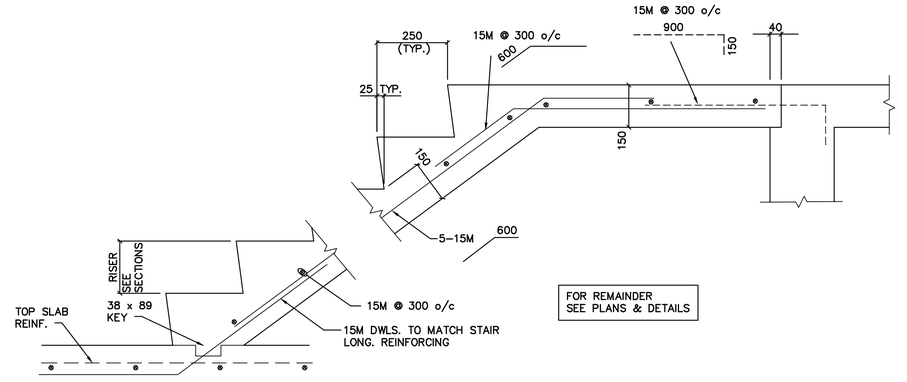


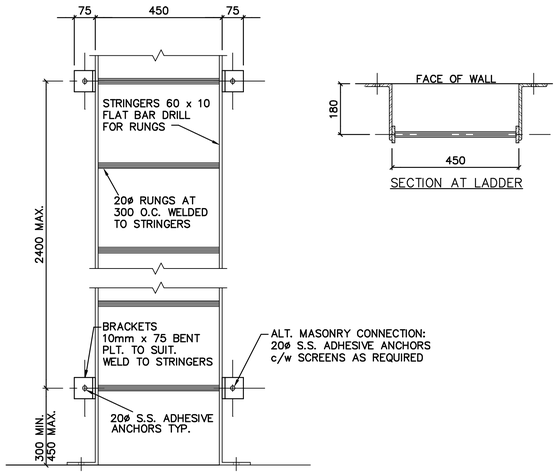
1 / 0S08 TYP. METAL STAIR (BOTTOM CONNECTION)



2 / 0S08 TYP. METAL STAIR (TOP CONNECTION)



3 / 0S08 TYPICAL CONC. STAIR DETAIL



NOTE:
1. REFER TO BUILDING SECTION FOR EXTENT OF LADDER.
2. LADDER(S) SHALL CONFORM TO THE REQUIREMENTS OF THE WORKERS COMPENSATION BOARD OF BRITISH COLUMBIA "INDUSTRIAL HEALTH AND SAFETY REGULATIONS",LATEST EDITION, AND ANSI A14.3-1974 "SAFETY REQUIREMENTS FOR FIXED LADDERS".

4 / 0S08 TYPICAL ALUM. LADDER DETAIL

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NOTE:
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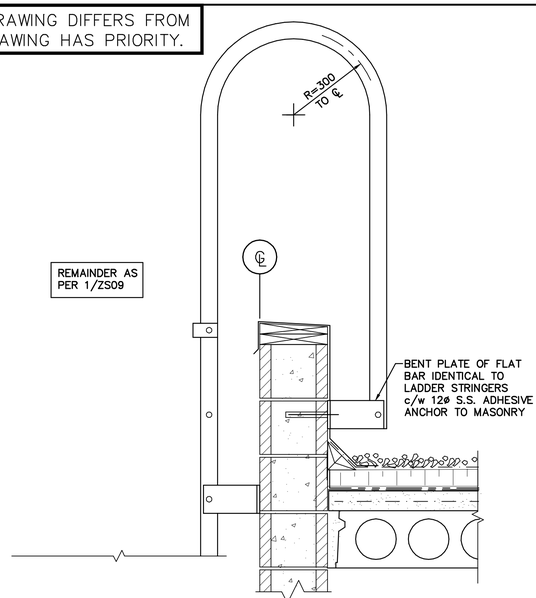
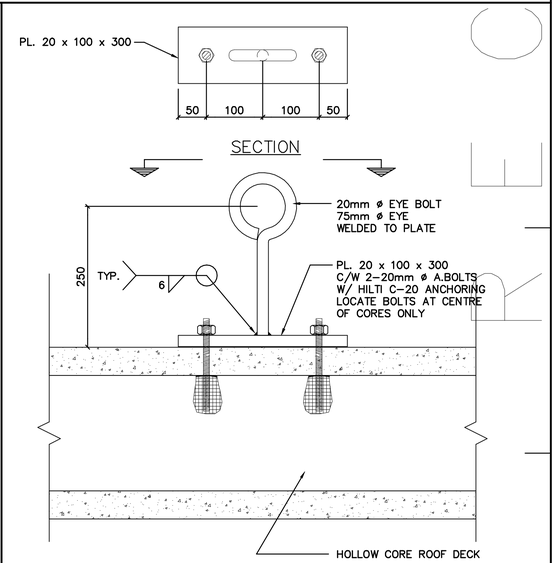
EDITION, AND ANSI A14.3-1974 "SAFETY REQUIREMENTS FOR FIXED LADDERS".

REMAINDER AS
PER 1/ZS09



5 / 0S08 LADDER DETAIL N.T.S.



6 / ZS08 TYP. TETHER EYE BOLT

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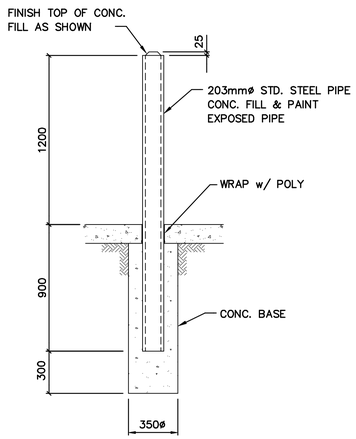
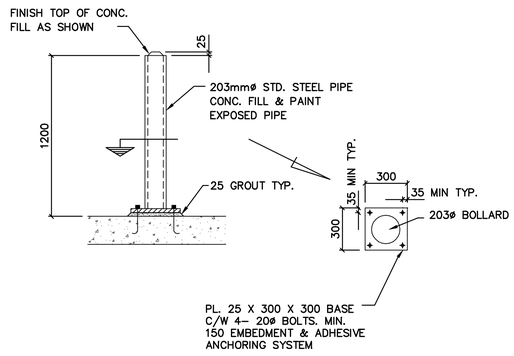
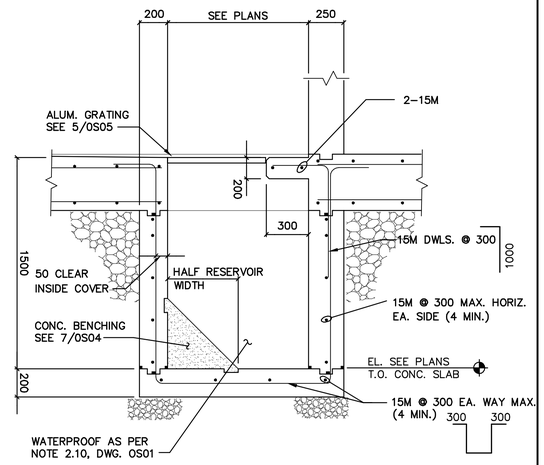


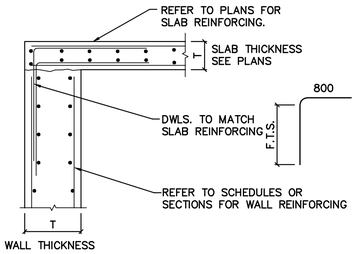
1 / 0S09 EXTERIOR BOLLARD



2 / 0S09 EXTERIOR BOLLARD "SECURED"

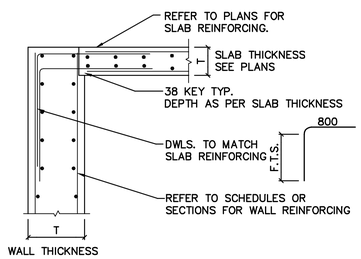


3 / 0S09 TYP. SUMP RESERVOIR

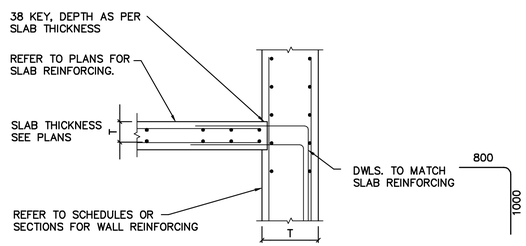


4 / 0S09 TYP. SLAB TO END WALL CONNECTION

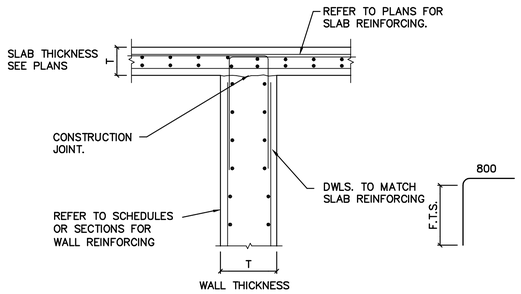
WHERE DETAILS SHOWN ON DRAWING DIFFERS FROM THIS STANDARD, THEN THE DRAWING HAS PRIORITY.



5 / 0S09 TYP. SLAB TO WALL KEY CONNECTION



6 / 0S09 TYP. SLAB TO MID WALL KEY CONNECTION



7 / 0S09 TYP. SLAB OVER WALL CONNECTION

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
4	27MAY98	GDB	RECORD DRAWING	KJW					
3	30MAY97	BWP	APPROVED FOR CONSTRUCTION, C.O. 4	GDH					
2	25FEB97	BWP	ISSUED FOR CONSTRUCTION	GDH					
1	JULY 96	BWP	ISSUED FOR G.M.P. TENDER	GDH					

Design GDH
Drawn BWP
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT

Reid Crowther 39844

STANDARD STRUCTURAL DETAILS

Scale NTS
Date JUNE 1996
City File
Sheet 9 of 9
Drawing 0S09

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 4

DESIGN COORD. | DESIGN ENG\TECH

SWWTP A1 H:\PROJECTS\ENV\03984400\02A\1234\STRUCT\Q\0S09 Plotted 1998-07-15

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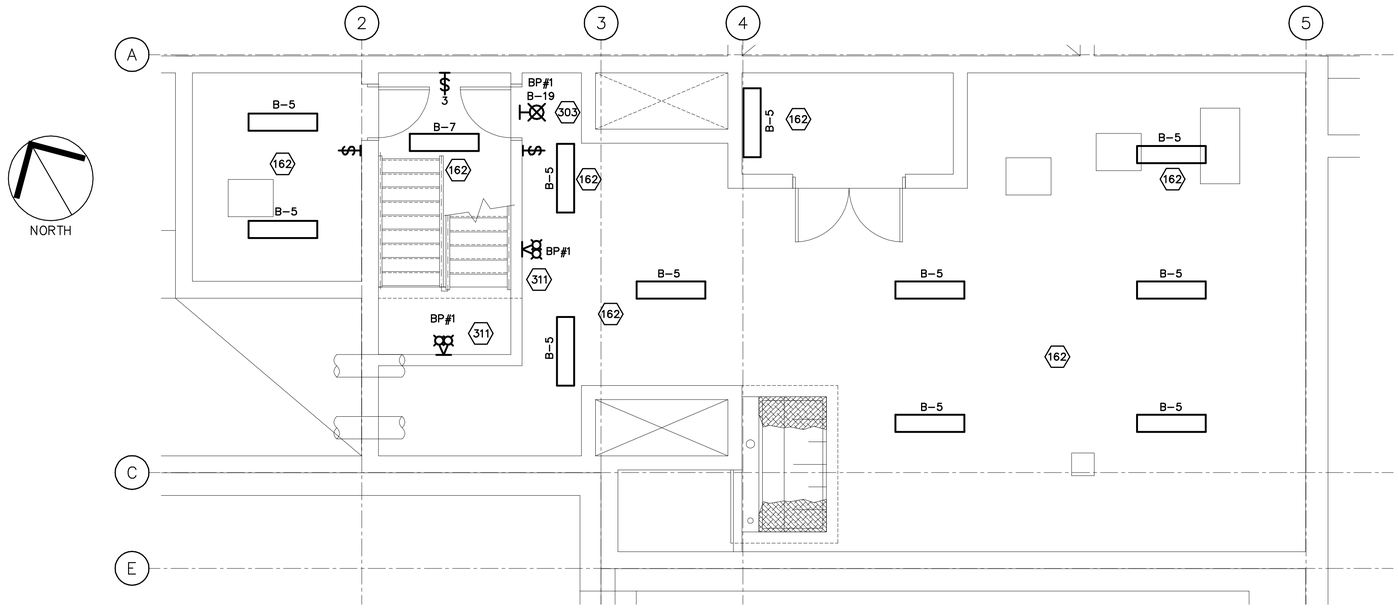

1 / 1E01 HEADWORKS LOWER FLOOR – LIGHTING
SCALE 1:100

2 / 1E01 HEADWORKS LOWER FLOOR – POWER
SCALE 1:100

NOTES:
1. PROVIDE APPROVED TRANSITION FRAMES AND/OR CONDUITS WHEN PASSING FORM NON-HAZARDOUS TO HAZARDOUS AREA.
2. PROVIDE SEALS ON ALL CONDUITS AND CABLE TRAYS PENETRATING INTERIOR AND EXTERIOR WALLS OF HEADWORKS/SLUDGE AREA.
3. TO UNDERGROUND VAULTS.

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
4	26JUN98	KM	RECORD DRAWING	KJW					
3	38MAY97	KM	APPROVED FOR CONSTRUCTION, CO 4	KHM					
2	09APR97	KM	ISSUED FOR CONSTRUCTION (DUCT SCHEDULE)	KHM					
1	JULY 96	KM	ISSUED FOR GMP TENDER	KHM					

Design KM
Drawn KM
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 1 – HEADWORKS
LOWER FLOOR
POWER & LIGHTING

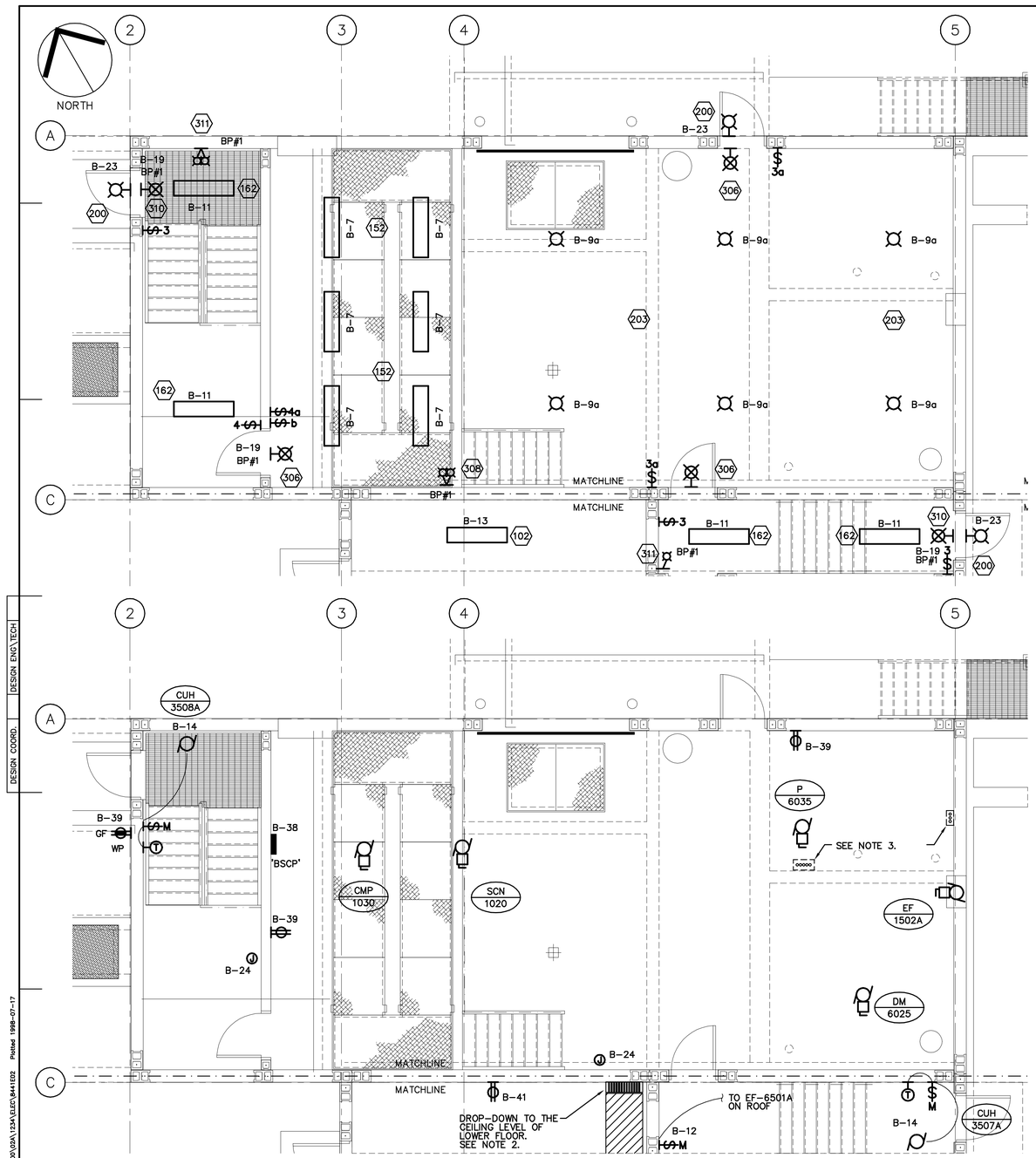
Reid Crowther 39844

Scale AS SHOWN
Date JULY 1996
City File
Sheet of
Drawing 1E01

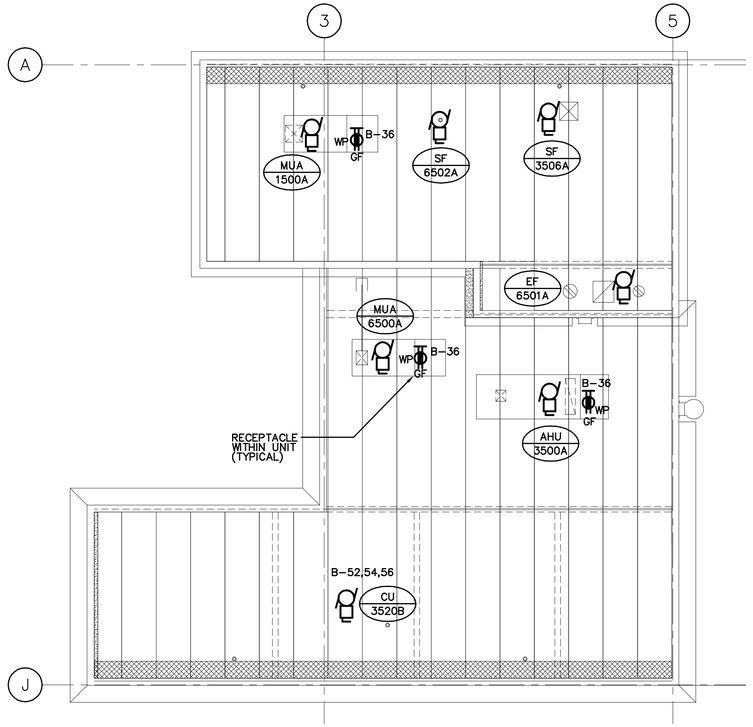
SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 4

DESIGN ENG\TECH
DESIGN COORD.
SWWTPA1
H:\PROJECTS\DWY\03984400\02A\123\ELEC\84415101 Plotted 1998-07-17

RECORD



2 1E02 HEADWORKS MAIN FLOOR – POWER
SCALE 1:100



3 1E02 ROOF PLAN – POWER
SCALE 1:200

NOTES:
1. ALL POWER AND CONTROL WIRING IN THE HEADWORKS/SLUDGE MAIN FLOOR AREA IS TO BE ROUTED TO ELECTRICAL ROOM IN THE PROCESS BUILDING VIA CABLE TRAYS IN THE LOWER FLOOR. ALL WIRING TO BE IN TECK CABLE.
2. PROVIDE APPROVED SEALS ON ALL CONDUITS AND CABLE TRAYS PENETRATING WALLS AND/OR FLOORS OF THE PROCESS BUILDING.
3. PROVIDE APPROVED TRANSITION FRAMES AND/OR CONDUITS WHEN PASSING FROM NON-HAZARDOUS TO HAZARDOUS AREA.
4. ALL ELECTRICAL DEVICES & LUMINAIRES INSTALLED IN THE HEADWORKS/ SLUDGE MAIN FLOOR AREA TO MEET CLASS I, DIV. 2 REQUIREMENTS.

1 1E02 HEADWORKS MAIN FLOOR – LIGHTING
SCALE 1:100

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4	26JUN98	KM	RECORD DRAWING	KJW
3	38MAY97	KM	APPROVED FOR CONSTRUCTION, CO 4	KHM
2	09APR97	KM	ISSUED FOR CONSTRUCTION (DUCT SCHEDULE)	KHM
1	JULY 96	KM	ISSUED FOR GMP TENDER	KHM

Design	KM
Drawn	KM
Checked	
Submitted	
Approved	

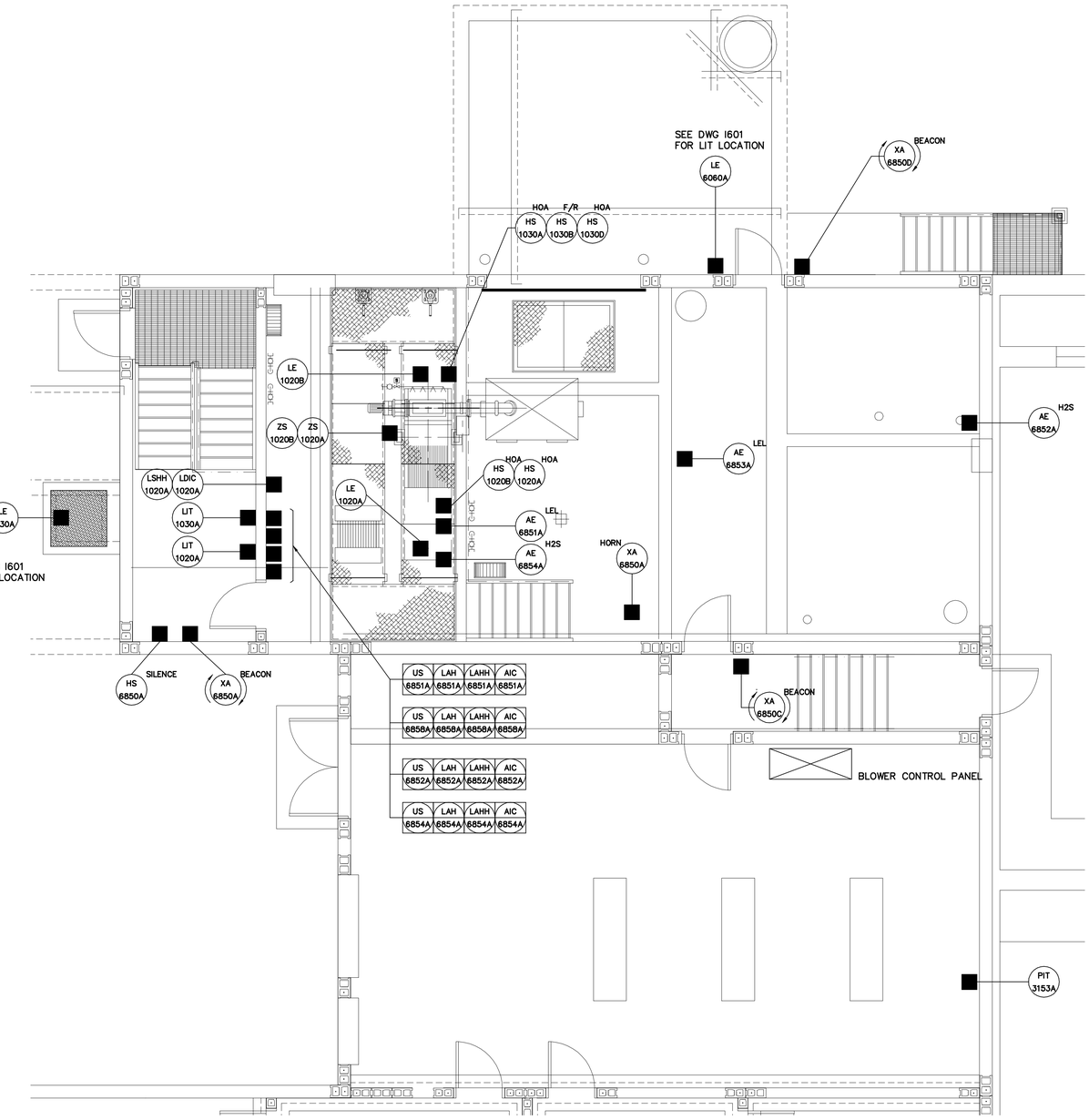
THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 1 – HEADWORKS
MAIN FLOOR
POWER & LIGHTING

Reid Crowther 39844

Scale	NTS
Date	JULY 1996
City File	
Sheet	of
Drawing	1E02

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 4

DESIGN ENG\TECH | DESIGN COORD. | Plotted 1998-07-17 | SWWTP-A1 H:\PROJECTS\ENV\03884400\03A\123A\ELEC\3844102



PLAN
1:50

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
5	JUNE 98	KM	RECORD DRAWING	KJW					
4	28MAY97	KJW	APPROVED FOR CONSTRUCTION, C.O. 4	CGL					
3	5MAR97	KJW	ISSUED FOR CONSTRUCTION	CGL					
2	9JAN97	KJW	WORK IN PROGRESS V.1 (NO CHANGES)	KAC					
1	JULY 96	KJW	ISSUED FOR GMP TENDER	CGL					

Design BLC
Drawn GDS/KJW
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT

AREAS 1, 3 AND 6

Reid Crowther
39844

MAIN FLOOR PLAN
INSTRUMENTATION LAYOUT

Scale AS NOTED
Date JULY 1996
City File
Sheet 1 of 1
Drawing 1101

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 5

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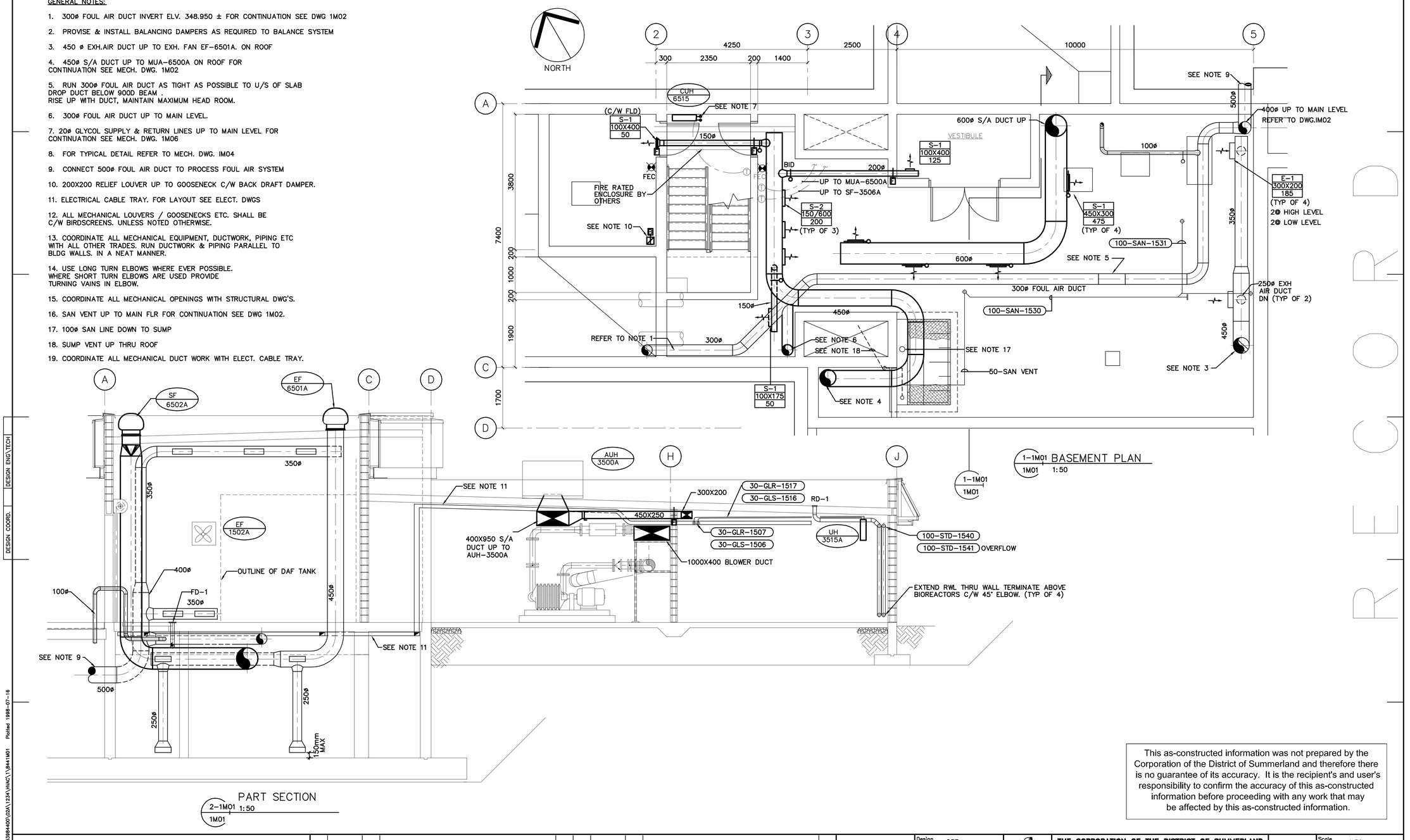
RECORD

DESIGN ENG\TECH
DESIGN COORD.
SWWTPA1 H:\PROJECTS\DWG\0398400\00A\1234\LEDS\94x1101 Plotted 1998-07-17

GENERAL NOTES:

1. 300ø FOUL AIR DUCT INVERT ELV. 348.950 ± FOR CONTINUATION SEE DWG 1M02
2. PROVISE & INSTALL BALANCING DAMPERS AS REQUIRED TO BALANCE SYSTEM
3. 450 ø EXH.AIR DUCT UP TO EXH. FAN EF-6501A. ON ROOF
4. 450ø S/A DUCT UP TO MUA-6500A ON ROOF FOR CONTINUATION SEE MECH. DWG. 1M02
5. RUN 300ø FOUL AIR DUCT AS TIGHT AS POSSIBLE TO U/S OF SLAB DROP DUCT BELOW 900D BEAM . RISE UP WITH DUCT, MAINTAIN MAXIMUM HEAD ROOM.
6. 300ø FOUL AIR DUCT UP TO MAIN LEVEL.
7. 20ø GLYCOL SUPPLY & RETURN LINES UP TO MAIN LEVEL FOR CONTINUATION SEE MECH. DWG. 1M06
8. FOR TYPICAL DETAIL REFER TO MECH. DWG. IM04
9. CONNECT 500ø FOUL AIR DUCT TO PROCESS FOUL AIR SYSTEM
10. 200X200 RELIEF LOUVER UP TO GOOSENECK C/W BACK DRAFT DAMPER.
11. ELECTRICAL CABLE TRAY. FOR LAYOUT SEE ELECT. DWGS
12. ALL MECHANICAL LOUVERS / GOOSENECKS ETC. SHALL BE C/W BIRDSCREENS. UNLESS NOTED OTHERWISE.
13. COORDINATE ALL MECHANICAL EQUIPMENT, DUCTWORK, PIPING ETC WITH ALL OTHER TRADES. RUN DUCTWORK & PIPING PARALLEL TO BLDG WALLS. IN A NEAT MANNER.
14. USE LONG TURN ELBOWS WHERE EVER POSSIBLE. WHERE SHORT TURN ELBOWS ARE USED PROVIDE TURNING VAINS IN ELBOW.
15. COORDINATE ALL MECHANICAL OPENINGS WITH STRUCTURAL DWG'S.
16. SAN VENT UP TO MAIN FLR FOR CONTINUATION SEE DWG 1M02.
17. 100ø SAN LINE DOWN TO SUMP
18. SUMP VENT UP THRU ROOF
19. COORDINATE ALL MECHANICAL DUCT WORK WITH ELECT. CABLE TRAY.



PART SECTION
2-1M01 1:50
1M01

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No.	Date	By	Revision	Chkd
5	20 MAY 98	GDB	RECORD DRAWING	KJW
4	2JUNE97	JFK	APPROVED FOR CONSTRUCTION, C.O. 4	KJW
3	6MAY97	JFK	ISSUED WITH CCN 2 (FA PIPING)	KJW
2	12MAR97	JFK	ISSUED FOR CONSTRUCTION	KJW
1	JULY 96	AGT	ISSUED FOR GMP TENDER	

Design GSR
Drawn JFK
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 1

Reid Crowther 39844

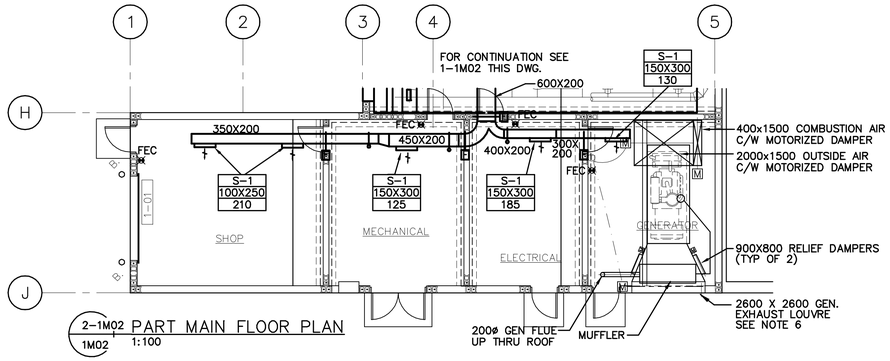
HEADWORKS/DAF/BLOWER BUILDING
BASEMENT HVAC PLAN AND SECTION

Scale 1:50
Date MARCH 97
City File
Sheet 1 of 6
Drawing 1M01

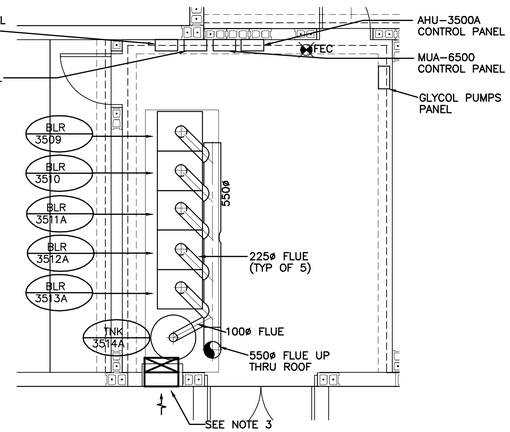
SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 5

DESIGN COORD. | DESIGN ENG\TECH

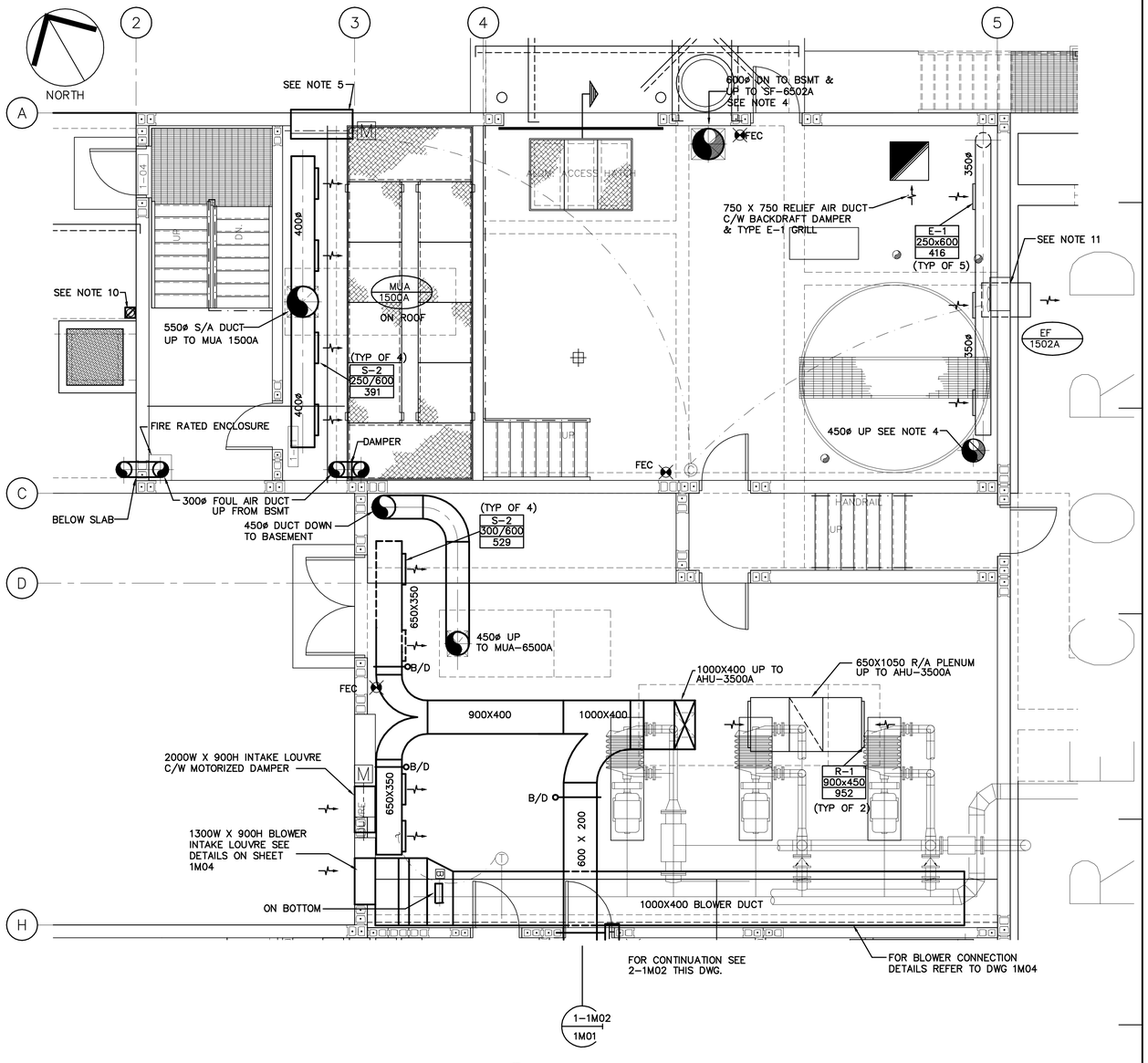
SWWTP1A1 H:\PROJECTS\ENV\03884400\02A\123A\HVAC\1\B441M01 Plotted 1998-07-16



2-1M02 / 1M02 PART MAIN FLOOR PLAN 1:100



3-1M02 / 1M02 MECHANICAL ROOM FLOOR PLAN 1:50



1-1M02 / 1M02 PARTIAL FLOOR PLAN 1:50

GENERAL NOTES:

1. GENERATOR AND BLOWER ROOM LOUVERS EQUIVALENT TO AIROLITE T9212 ACOUSTIC LOUVER.

2. PROVIDE BIRDSCREENS ON ALL INTAKE & EXHAUST UNLESS NOTED OTHERWISE.

3. 1050X450 COMBINATION COMBUSTION/RELIEF DUCT C/W AIROLITE K609 LOUVER OR EQUIVALENT, BIRDSCREEN & ESKIMO TRAP. EXTEND DUCT DN TO FIN. FLOOR.

4. 450ø EXH. & 600ø S/A DUCT UP FROM BSMT. OFFSET DUCT @ MAIN FLR. CEILING SLAB AS REQUIRED TO PENETRATE HOLLOW CORE ROOF @ DESIGNATE OPENING.

5. 1200x1200 INTAKE LOUVER C/W MOTORIZED DAMPER & FILTER ASSEMBLY.

6. GENERATOR EXHAUST LOUVER & DUCT SHALL BE REMOVABLE TO ALLOW FOR REMOVAL OF THE GENERATOR.

7. 200X200 GRAVITY RELIEF DAMPER & GOOSENECK

8. COORDINATE ALL MECHANICAL ROOF OPENINGS THRU ROOF WITH STRUCTURAL OPENINGS.

9. PROVIDE AIR TIGHT SEAL AROUND ALL MECHANICAL EQUIPMENT, PIPING ETC. THAT PENETRATE FLOOR SLAB WALL OF A HIGH HAZARD AREA. (CLASS 1. DIV.2)

10. 200x200 GOOSENECK C/W BIRDSCREEN. (AT GRADE LEVEL)

11. WALL EXHAUST FAN EF-1502A C/W 650X650 RAIN HOOD & BIRDSCREEN.

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4	20 MAR 98	GDB	RECORD DRAWING	KJW					
3	2JUNE97	JFK	APPROVED FOR CONSTRUCTION, C.O. 4	KJW					
2	MAR 97	JFK	ISSUED FOR CONSTRUCTION	KJW					
1	JULY 96	AGT	ISSUED FOR GMP TENDER						

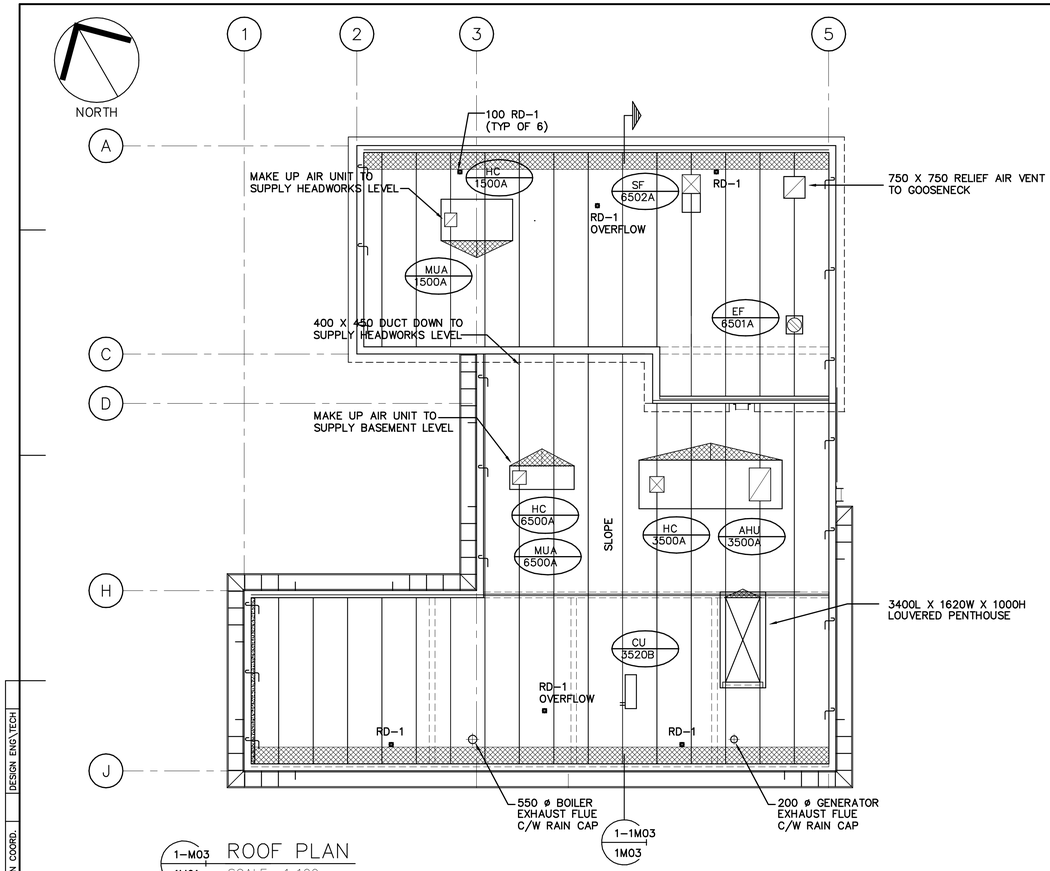
Design GSR
Drawn JFK
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 1
PROCESS BUILDING
HVAC MAIN FLOOR PLAN
SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO 4

Reid Crowther 39844

Scale AS NOTED
Date JULY 1996
City File
Sheet 2 of 6
Drawing 1M02

DESIGN COORD. | DESIGN ENG\TECH
SWWTP1A1 H:\PROJECTS\ENV\03884400\02A\123A\HVAC\1\0841M02 Plotted 1998-07-16



1-M03 / 1M01 ROOF PLAN
SCALE 1:100

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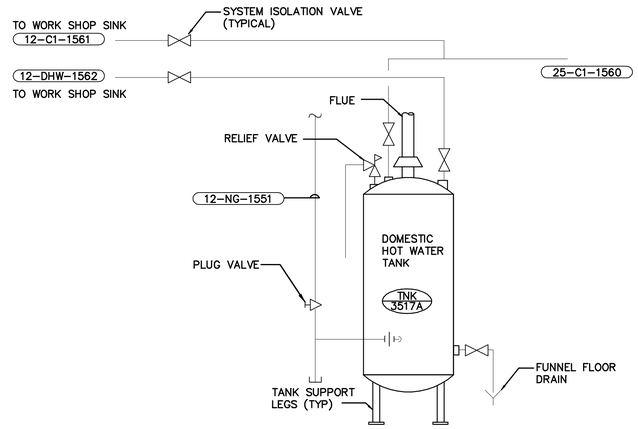
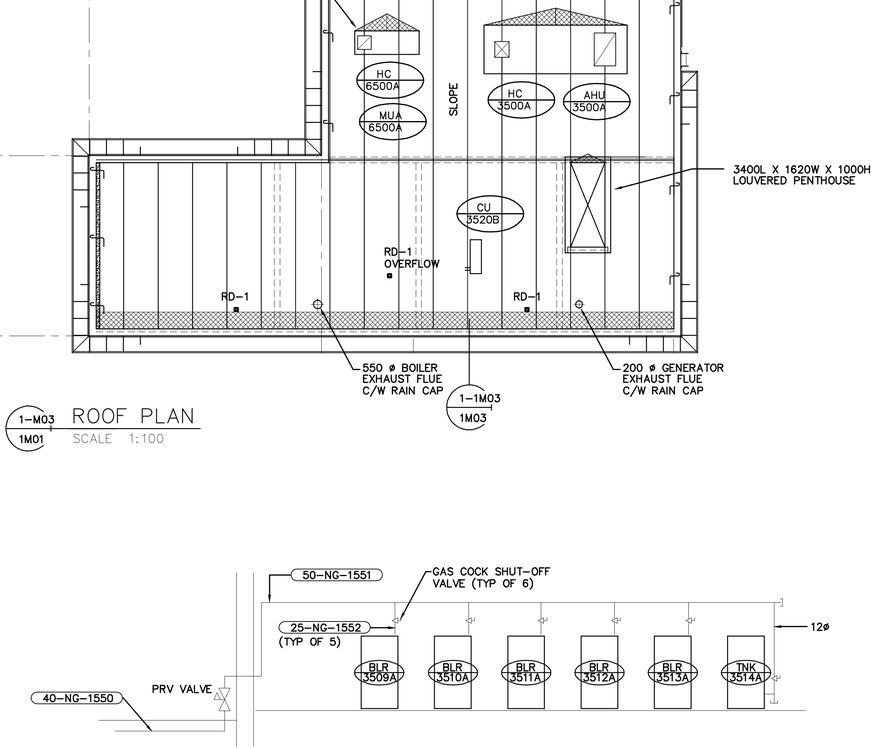
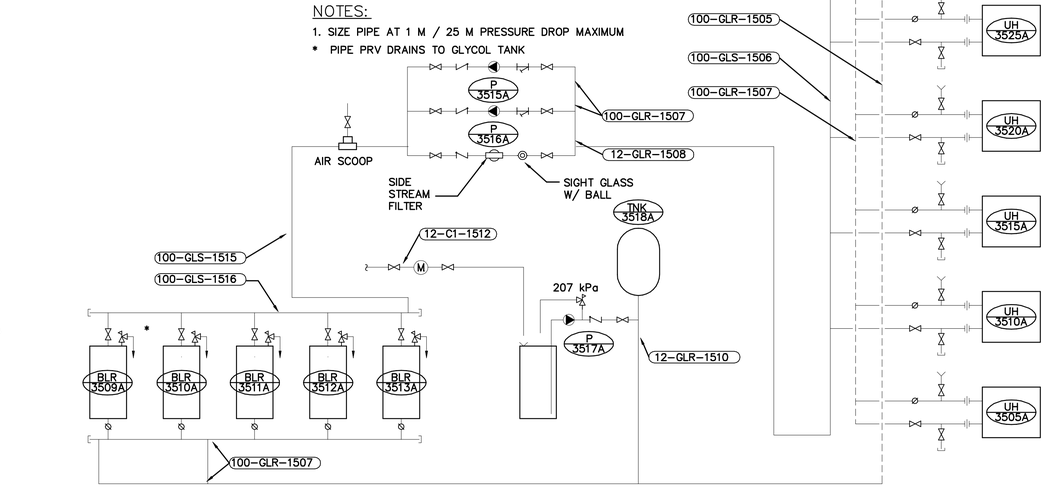


4-1M03 / 1M01 DOMESTIC HOT WATER PIPING SCHEMATIC
SCALE N.T.S.

NOTES:
1. SIZE PIPE AT 1 M / 25 M PRESSURE DROP MAXIMUM
* PIPE PRV DRAINS TO GLYCOL TANK



4-1M03 / 1M01 NATURAL GAS SCHEMATIC
SCALE N.T.S.



3-1M03 / 1M01 HEATING SCHEMATIC
SCALE N.T.S.

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6	20 MAY 98	GDB	RECORD DRAWING	KJW					
5	2JUNE97	AGT	APPROVED FOR CONSTRUCTION, C.O. 8	KJW					
4	2JUNE97	AGT	APPROVED FOR CONSTRUCTION, C.O. 4	KJW					
3	14MAY97	AGT	REVISED MECH. PENTHOUSE	KJW					
2	12MAR97	AGT	ISSUED FOR CONSTRUCTION	KJW					
1	JULY 96	AGT	ISSUED FOR GMP TENDER						

Design GSR
Drawn JFK
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 1
PROCESS BUILDING
MECHANICAL ROOF PLAN AND HEATING SCHEMATIC
SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO

Reid Crowther 39844

Scale AS NOTED
Date MAR 97
City File
Sheet 3 of 6
Drawing 1M03
6

RECORD

DESIGN ENG\TECH
DESIGN COORD.
SWWTP\A1 H:\PROJECTS\ENVI\0398400\02A\123A\HVAC\1\98411M03 Plotted 1998-07-16

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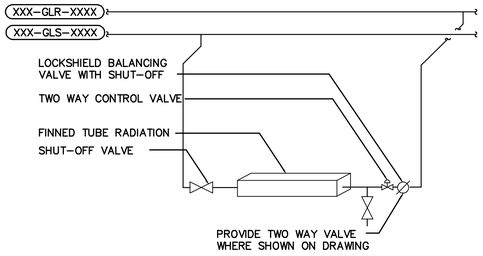
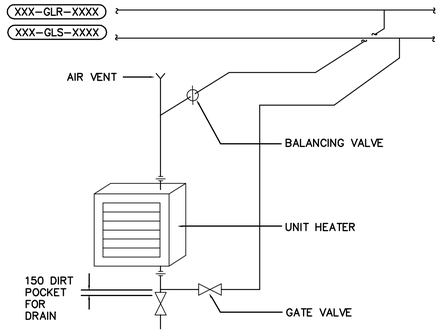
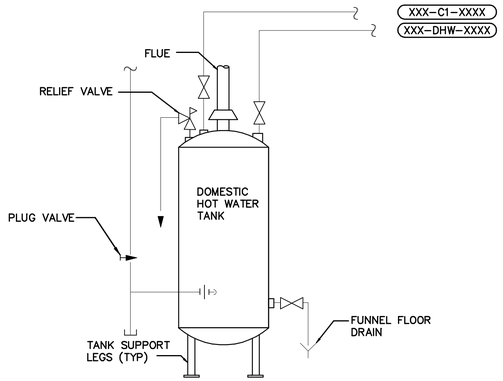


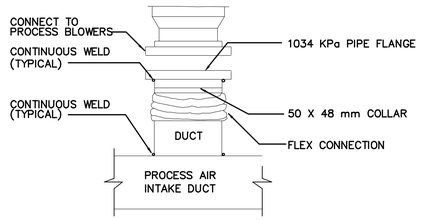
RADIATION & CONVECTOR PIPING DETAIL
NTS



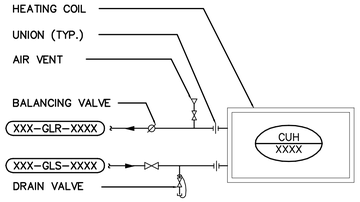
HORIZONTAL UNIT HEATER PIPING DETAIL
NTS



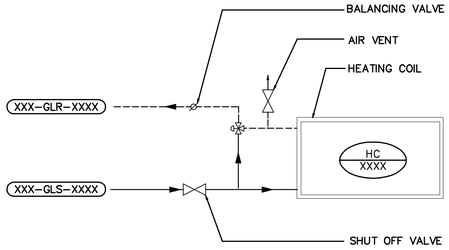
HOT WATER TANK PIPING DETAIL
NTS



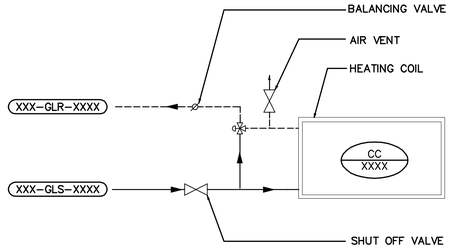
PROCESS AIR FLANGE CONNECTION DETAIL
NTS



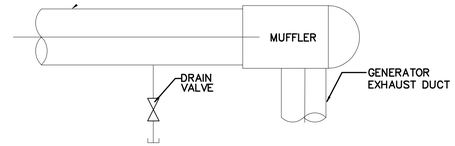
CABINET UNIT HEATER PIPING DETAIL
NTS



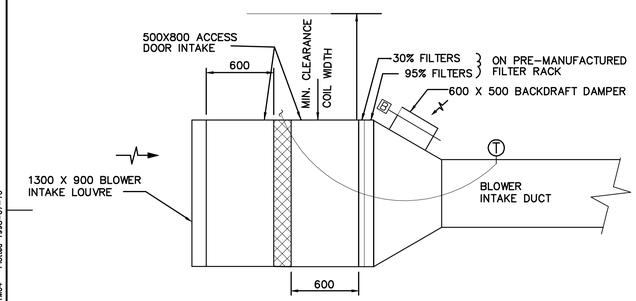
HEATING COIL PIPING DETAIL
NTS



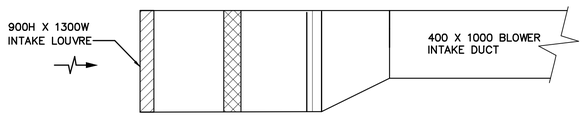
COOLING COIL PIPING DETAIL
NTS



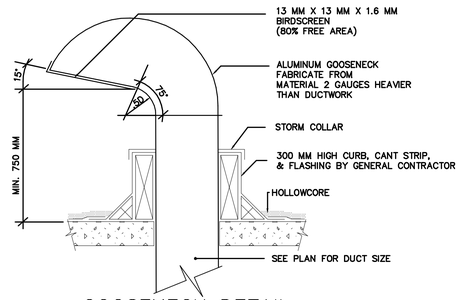
GENERATOR QUICK CONNECT DETAIL
NTS



BLOWER DUCT DETAIL PLAN
SCALE 1:50



BLOWER DUCT DETAIL SECTION
SCALE 1:50



GOOSENECK DETAIL
NTS

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
4	20 MAY 98	GDB	RECORD DRAWING	KJW					
3	2JUNE97	JFK	APPROVED FOR CONSTRUCTION, C.O. 4	KJW					
2	12MAR97	JFK	ISSUED FOR CONSTRUCTION	KJW					
1	JULY 96	AGT	ISSUED FOR GMP TENDER						

Design VSW
Drawn VSW
Checked
Submitted
Approved

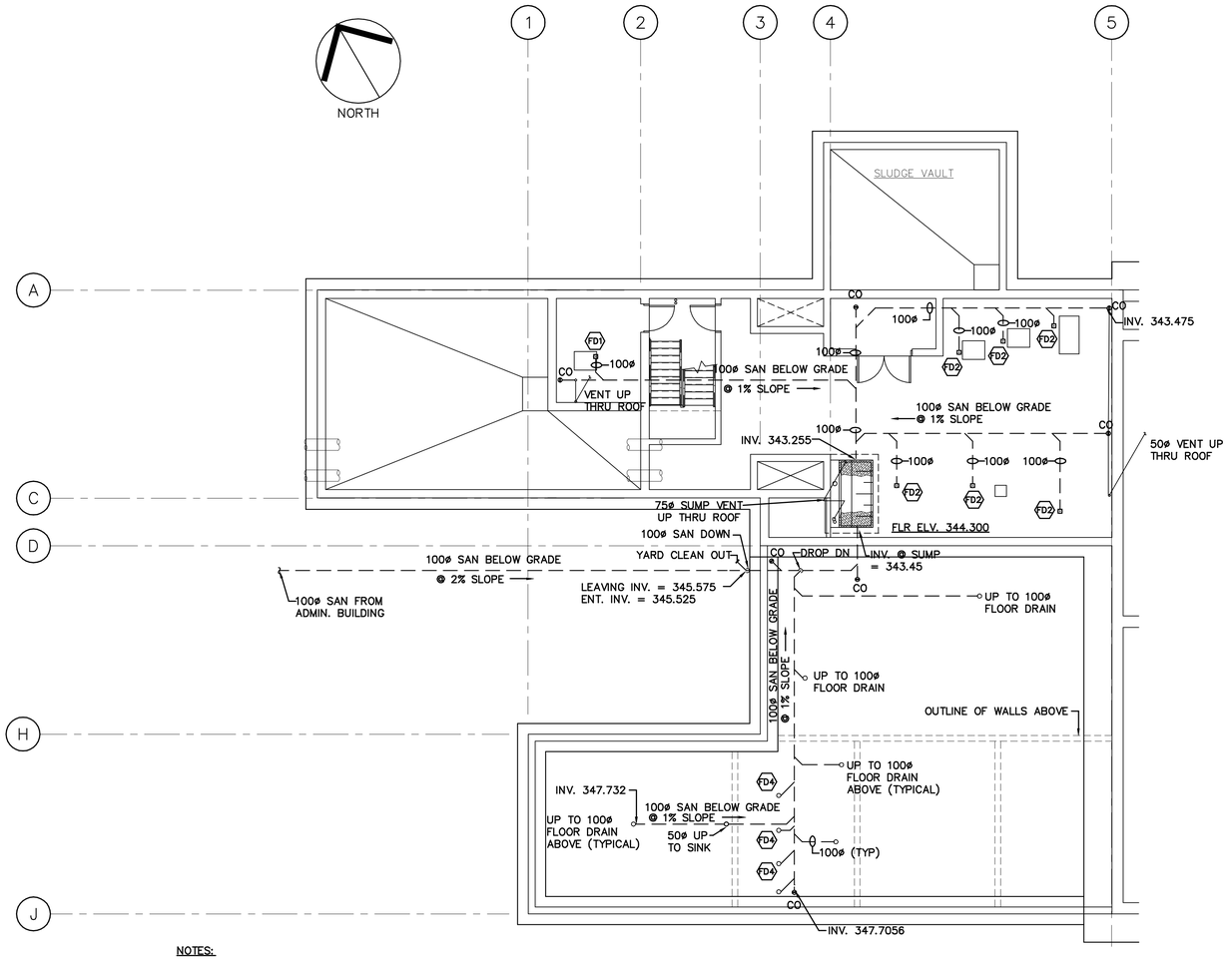
THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 1
PROCESS BUILDING
MECHANICAL DETAILS

Reid Crowther 39844

Scale NTS
Date MAR 97
City File
Sheet 4 of 6
Drawing 1M04

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 4

DESIGN ENG\TECH
DESIGN COORD.
SWWTP.A1 H:\PROJECTS\SWA\0398-1400\00A\123A\WWC\1M04.MDX Plotted 1998-07-16



FOUNDATION PLAN
1:100

NOTES:

FD2 DENOTES FLOOR DRAIN IN UNFINISHED FLOOR AREAS
ANCON FD-200

FD4 DENOTES FUNNEL FLOOR DRAIN
ANCON FD-200-EG

1. PROVIDE & INSTALL TRAPS & VENTING AS PER PLUMBING CODES & AUTHORITY HAVING JURISDICTION.

2. EXACT LOCATION OF SHOP SINK TO BE DETERMINED ON SITE.

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RECORD

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
5	20 MAR 98	GDB	RECORD DRAWING	KJW					
4	7MAR97	JFK	ISSUED FOR CONSTRUCTION C.O. 3	JFK					
3	3MAR97	JFK	50ø SAN ADDED FOR SHOP SINK	JFK					
2	12FEB97	JFK	ISSUED FOR CONSTRUCTION	KJW					
1	JULY 96	AGT	ISSUED FOR GMP TENDER						

Design JFK
Drawn JFK
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 1
HEADWORKS/DAF/BLOWER BUILDING
FOUNDATION PLUMBING PLAN

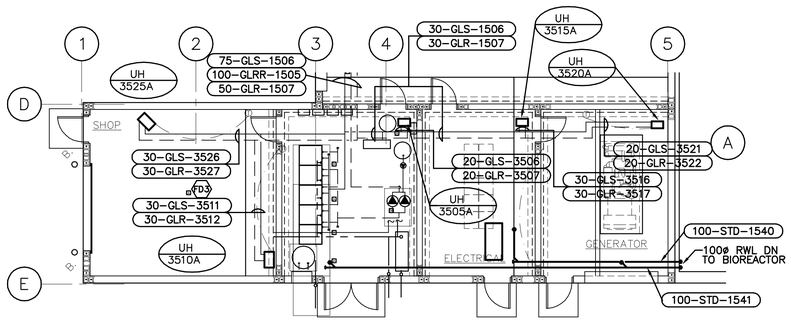
Reid Crowther 39844

Scale
Date
City File
Sheet 5 of 6
Drawing 1M05

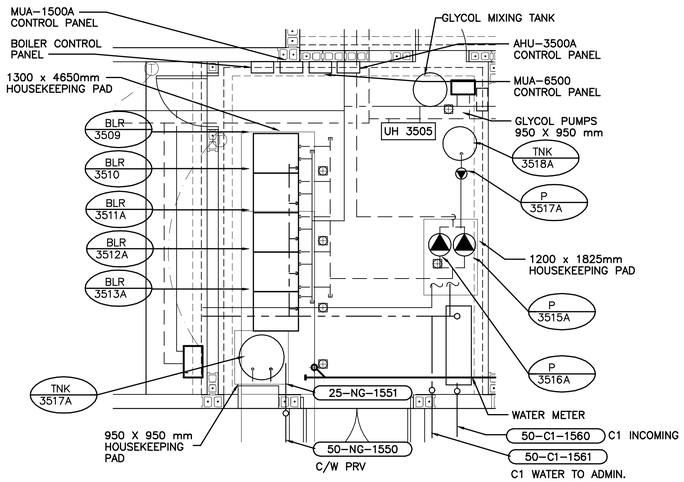
SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 5

DESIGN COORD. | DESIGN ENG\TECH

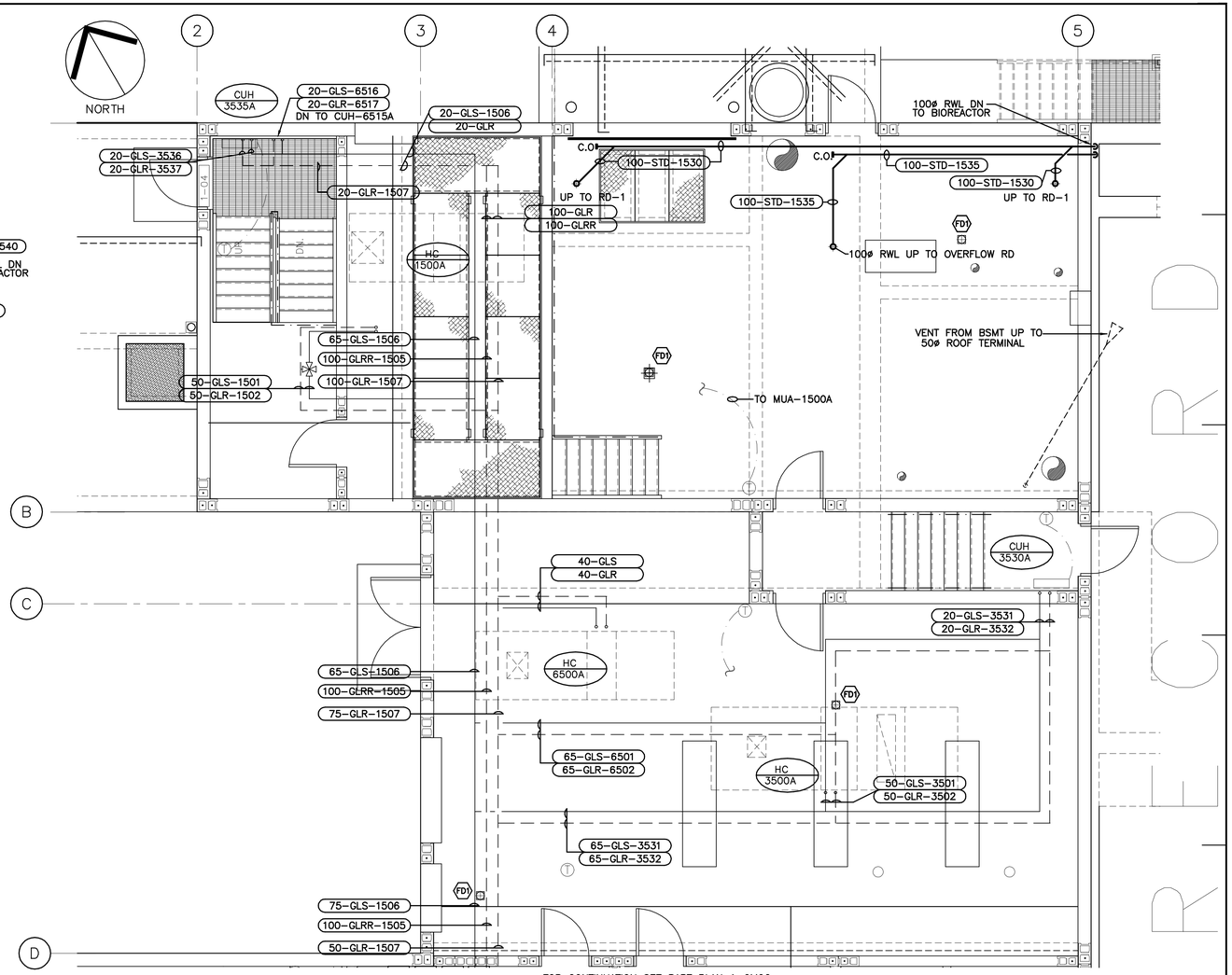
SWWTP\A1 H:\PROJECTS\GW\03894400\02A\123A\HVAC\1M41M05 Plotted 1998-07-16



2-1M02 / 1M02 PARTIAL FLOOR PLAN 1:100



3-1M02 / 1M02 MECHANICAL ROOM FLOOR PLAN 1:50



1-1M02 / 1M02 PARTIAL FLOOR PLAN 1:50

GENERAL NOTES

1. PROVIDE AND INSTALL FUNNEL FLOOR DRAIN FOR ALL EQUIPMENT REQUIRING INDIRECT CONNECT FROM EQUIPMENT TO SAN LINE ALL OTHER FLOOR DRAIN SHALL BE FLUSH FLOOR MOUNTED TYPE.

2. PROVIDE DRIP PAN IN THE ELECTRICAL ROOM OVER ANY ELECTRICAL EQUIPMENT THAT HAS MECHANICAL EQUIPMENT/PIPING ABOVE IT.

3. DROP 100ø RWL DOWN INTERIOR WALL AND EXTEND THRU WALL WITH A 45° ELBOW TERMINATE 150mm ABOVE BIOREACTORS. (TYP OF 4 LOCATIONS).

4. FOR PIPING DETAIL FROM DOMESTIC HOT WATER TANK TO SHOP SINK REFER TO SCHEMATIC 2-1M03.

4. FOR NATURAL GAS PIPING TO HOT WATER TANK AND BOILERS REFER TO SCHEMATIC 4-1M03. GAS SERVICE INLET SHALL BE AT THE TOP OF EACH BOILER.

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
4	20 MAY 98	GDB	RECORD DRAWING	KJW					
3	3JUNE97	JFK	APPROVED FOR CONSTRUCTION, C.O. 4	KJW					
2	12MAR97	JFK	ISSUED FOR CONSTRUCTION	KJW					
1	JULY 96	AGT	ISSUED FOR GMP TENDER						

Design GSR
Drawn JFK
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 1
PROCESS BUILDING
HEATING MAIN FLOOR PLAN

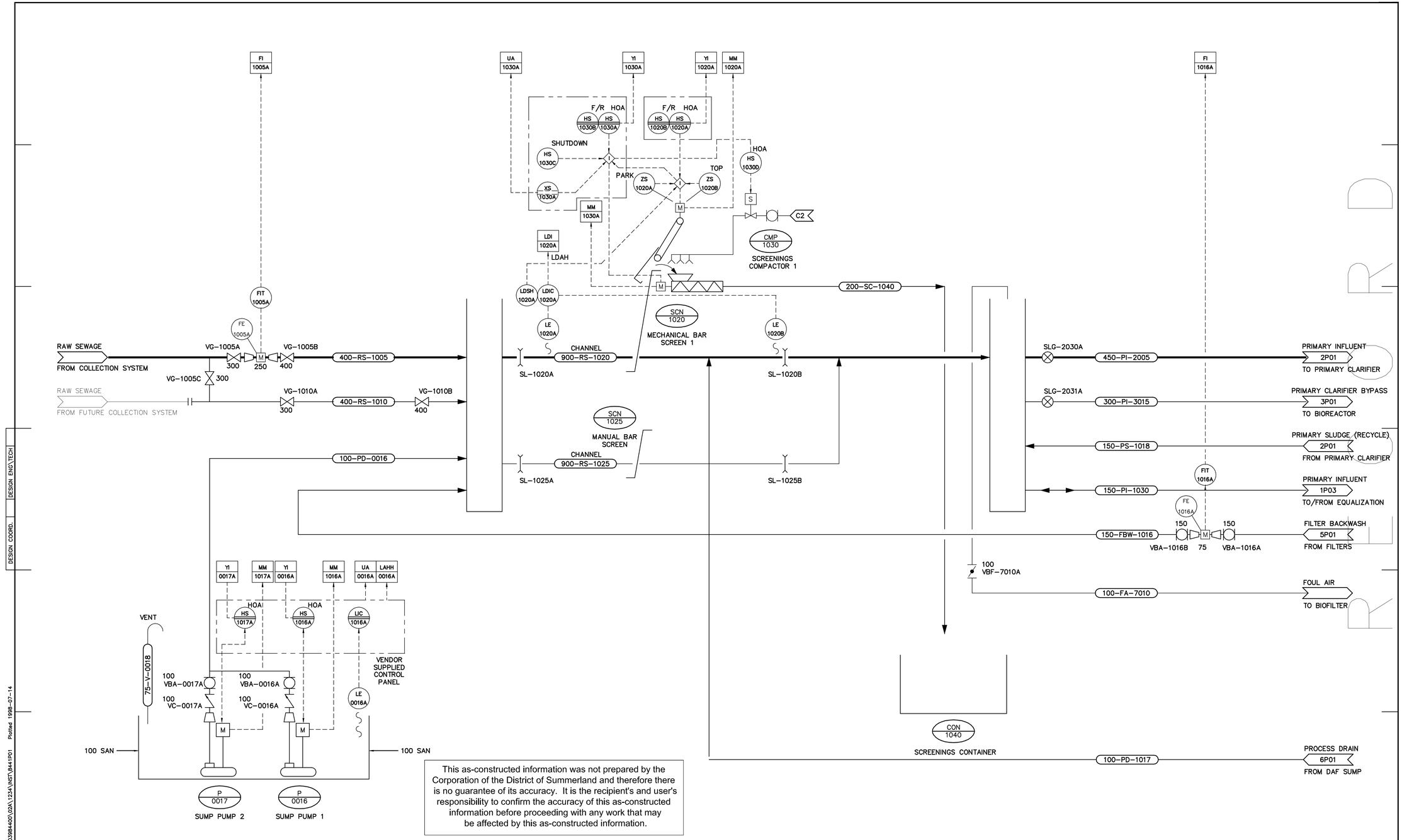
Reid Crowther 39844

Scale AS NOTED
Date MARCH 97
City File
Sheet 6 of 6
Drawing 1M06

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 4

DESIGN COORD. | DESIGN ENG\TECH

S:\WTP\A1 WL\PROJECTS\ENV\03884400\02A\1234\HVAC\1_8441M06 Plotted 1998-07-16



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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
4	19MAY98	GDB	RECORD DRAWING	KJW					
3	13FEB97	KJW	ISSUED FOR CONSTRUCTION – REVISED	CGL					
2	8JAN97	KJW	WORK IN PROGRESS V.1 (MAG METERS)	KAC					
1	JULY 96	KJW	ISSUED FOR GMP TENDER	BLC					

Design CGL/BLC
Drawn KJW
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 1 – HEADWORKS
HEADWORKS
PIPING AND INSTRUMENTATION DIAGRAM

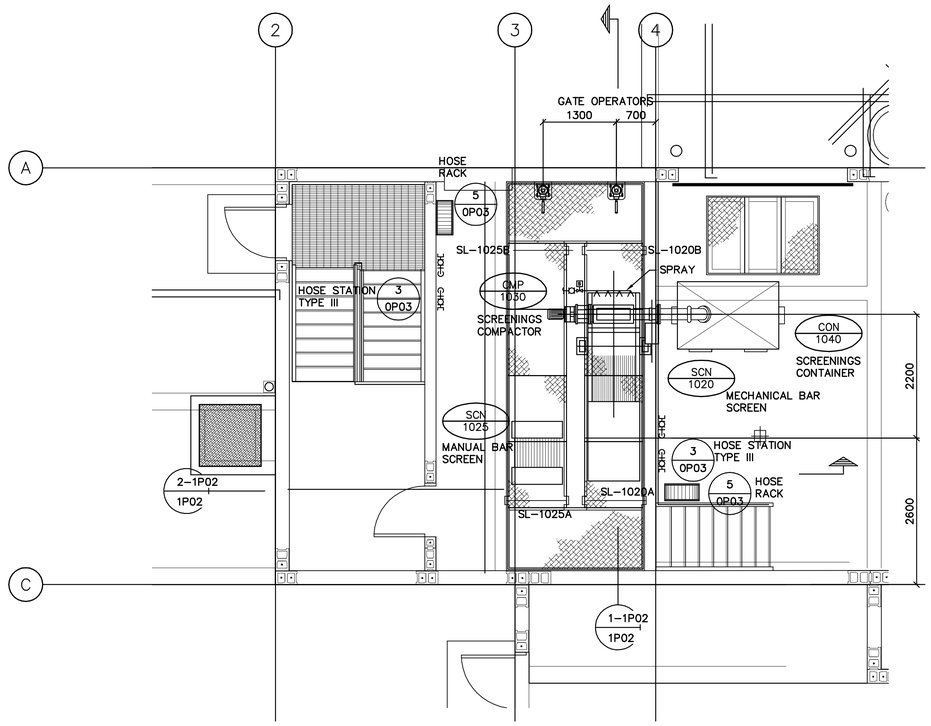
Reid Crowther 39844

Scale AS NOTED
Date MAY 1996
City File
Sheet of
Drawing 1P01

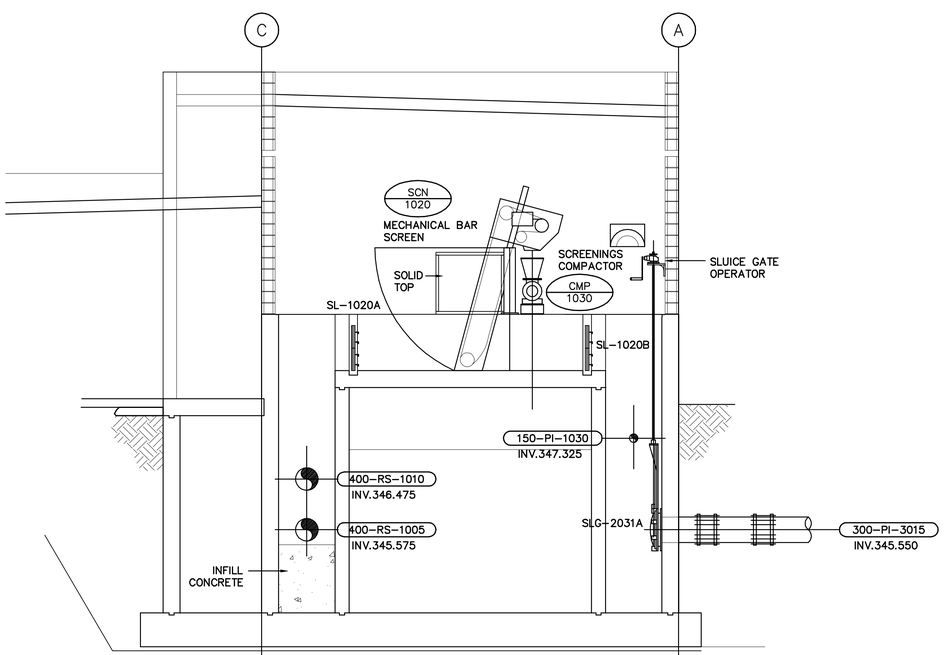
SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO →

4

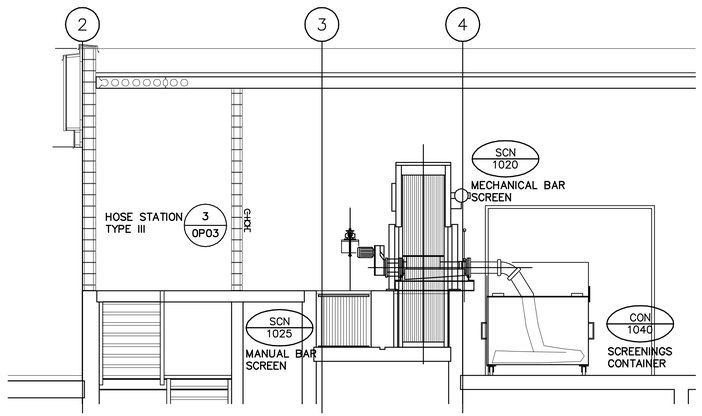
DESIGN ENG\TECH | DESIGN COORD. | SWWTPA1 H:\PROJECTS\ENV\03984400\02A\23A\INST\B441P01 Plotted 1998-07-14



PLAN
1:50



1-1P02 / 1P02 SECTION
1:50



2-1P02 / 1P02 SECTION
1:50

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
6	19 MAY 98	GDB	RECORD DRAWING	KJW					
5	28MAY97	KJW	APPROVED FOR CONSTRUCTION, C.O. 4	CGL					
4	26FEB97	KJW	ISSUED FOR CONSTRUCTION	CGL					
3	17FEB97	KJW	WORK IN PROGRESS V.2 (HOSE STN/EQ PIPE)	CGL					
2	20NOV96	KJW	WORK IN PROGRESS V.1 (FLOOR DRAINS)	BWP					
1	JULY 96	KJW	ISSUED FOR GMP TENDER	CGL					

Design CGL/KJW
Drawn KJW
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 1 – HEADWORKS
MAIN FLOOR PLAN
GENERAL ARRANGEMENT

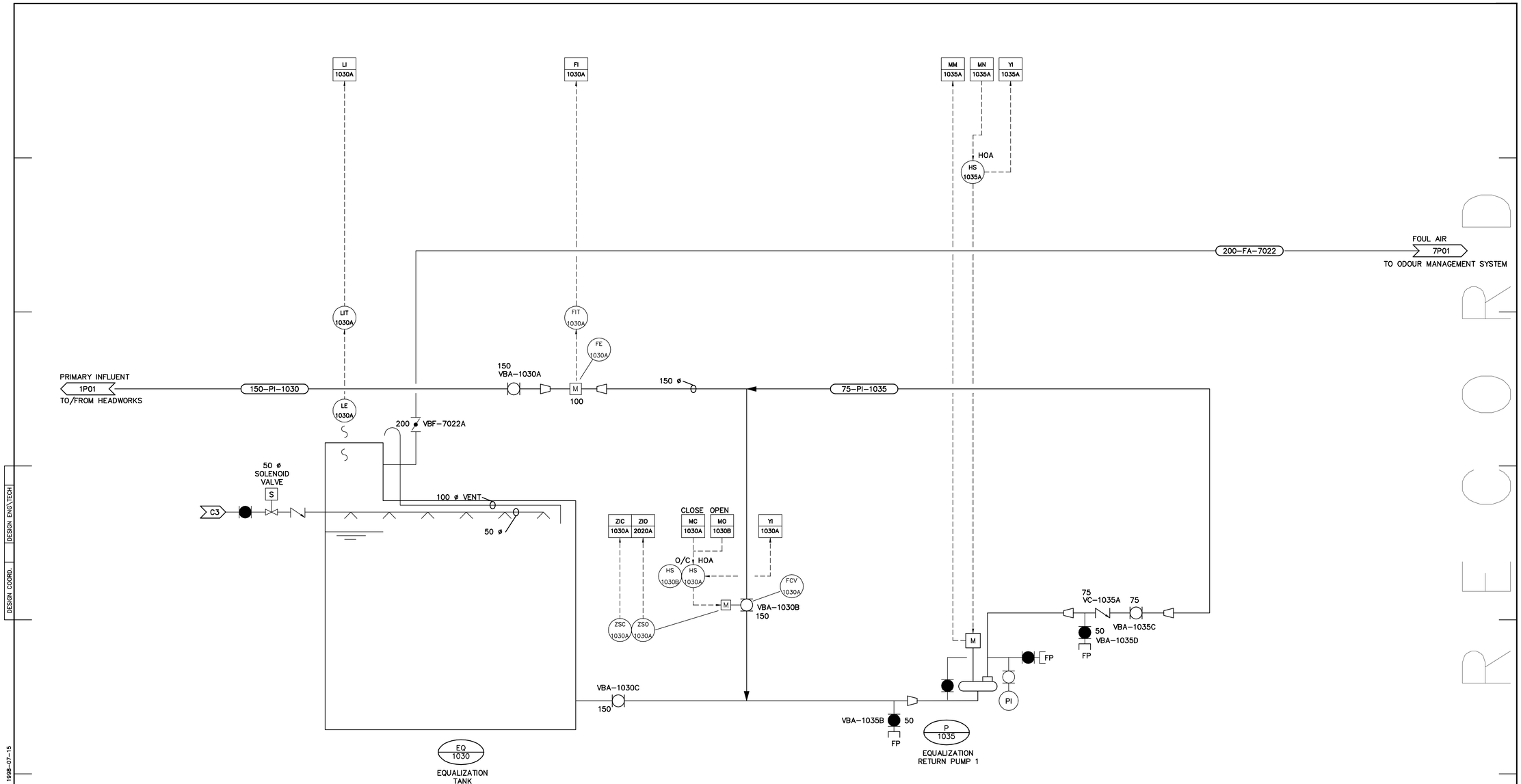
Reid Crowther
39844

Scale AS NOTED
Date JUNE 1996
City File
Sheet of
Drawing 1P02

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 6

DESIGN ENG\TECH
DESIGN COORD.
SWWTPA1 H:\PROJECTS\DWG\00884400\00A\1234\PROC\1P44102 Plotted: 1998-07-15

RECORD



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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
4	19 MAY 98	GDB	RECORD DRAWING	KJW					
3	28MAY97	KJW	APPROVED FOR CONSTRUCTION, C.O. 4	CGL					
2	28FEB97	KJW	ISSUED FOR CONSTRUCTION	CGL					
1	17FEB97	KJW	WORK IN PROGRESS V.1	CGL					

Design CGL/MKF
Drawn KJW
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT

Reid Crowther 39844

AREA 1 – HEADWORKS

EQUALIZATION TANK
PIPING AND INSTRUMENTATION DIAGRAM

Scale AS NOTED
Date FEB 1997
City File
Sheet of
Drawing 1P03

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 4

DESIGN ENG\TECH
DESIGN COORD.
Plotted 1998-07-15
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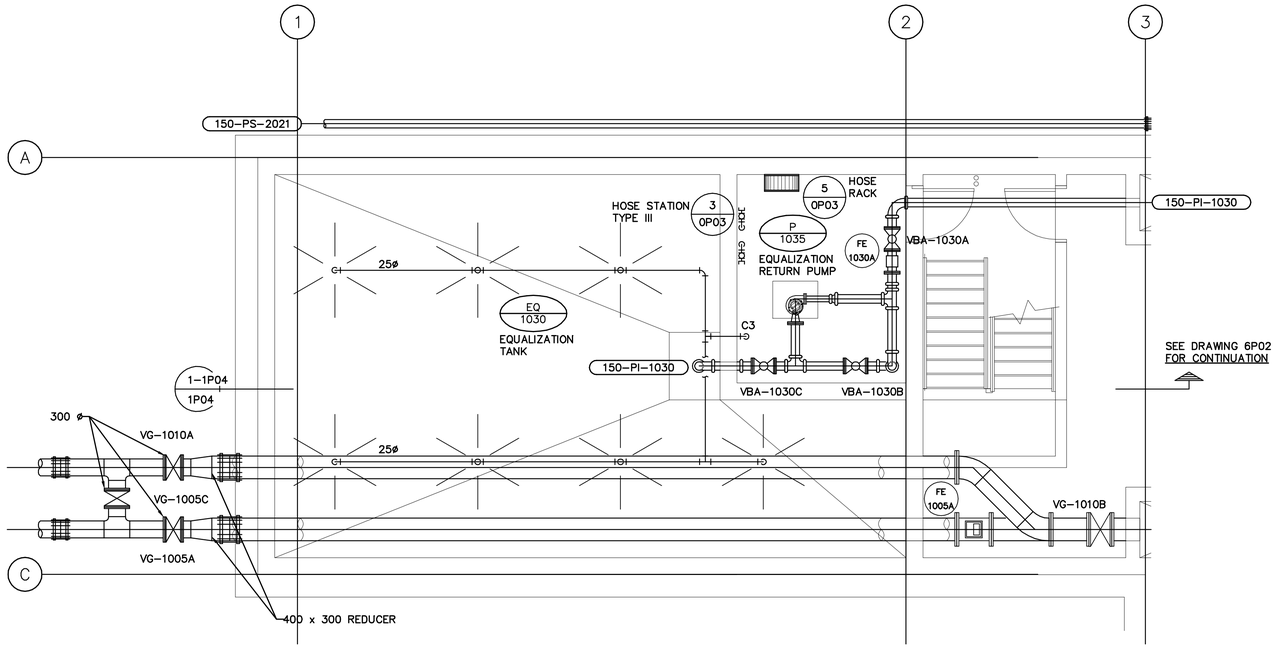
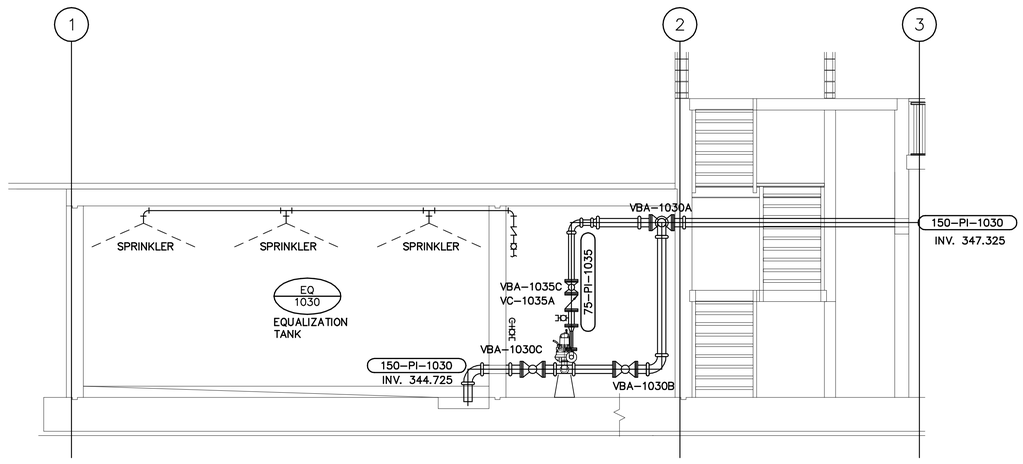
SWWTPA1



PLAN
1:50



1–1P04 / 1P04 SECTION 1:50

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
4	19 MAY 98	GDB	RECORD DRAWING	KJW					
3	28MAY97	KJW	APPROVED FOR CONSTRUCTION, C.O. 4	CGL					
2	26FEB97	KJW	ISSUED FOR CONSTRUCTION (SPRINKLERS)	CGL					
1	17FEB97	KJW	WORK IN PROGRESS V.1 (EQUALIZATION PIPING)	CGL					

Design CGL/KJW
Drawn KJW
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT

Reid Crowther 39844

AREA 1 – HEADWORKS

LOWER FLOOR PLAN – EQUALIZATION
GENERAL ARRANGEMENT

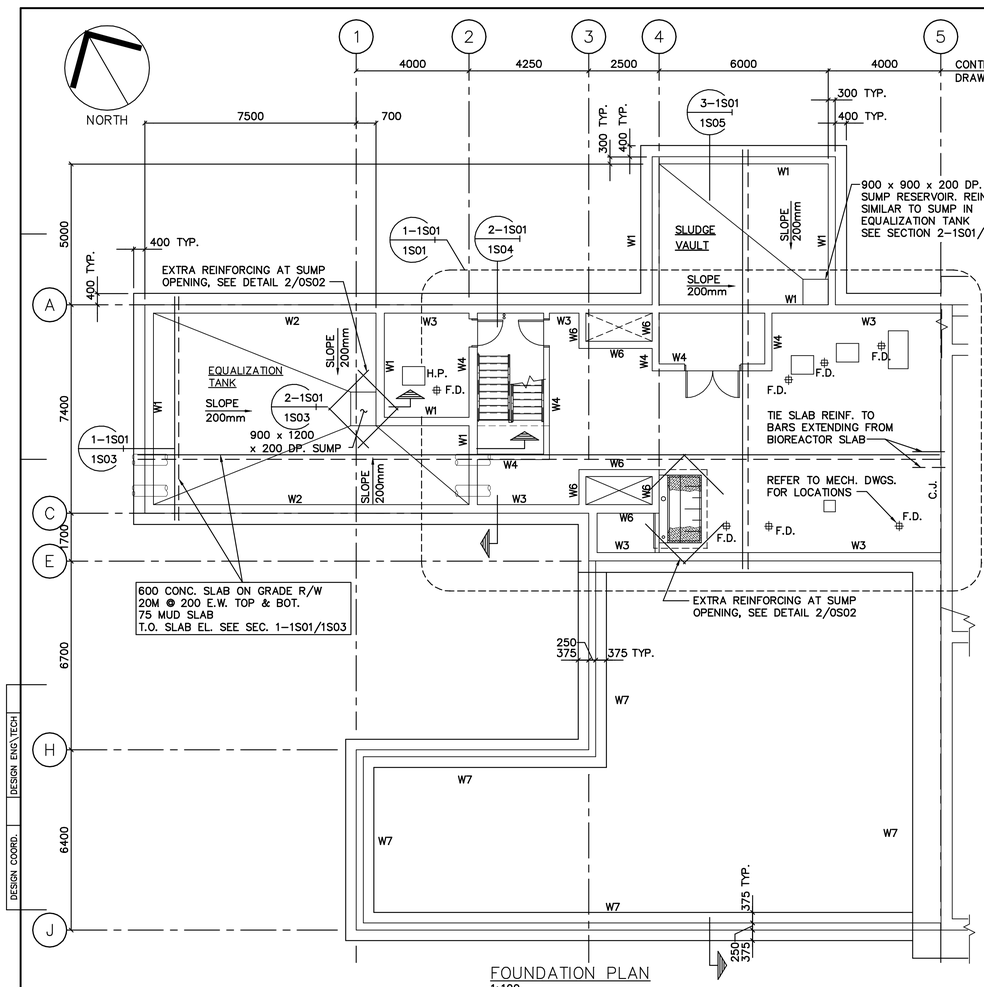
Scale AS NOTED
Date FEB 1997
City File
Sheet of
Drawing 1P04

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 4

DESIGN COORD. | DESIGN ENG\TECH

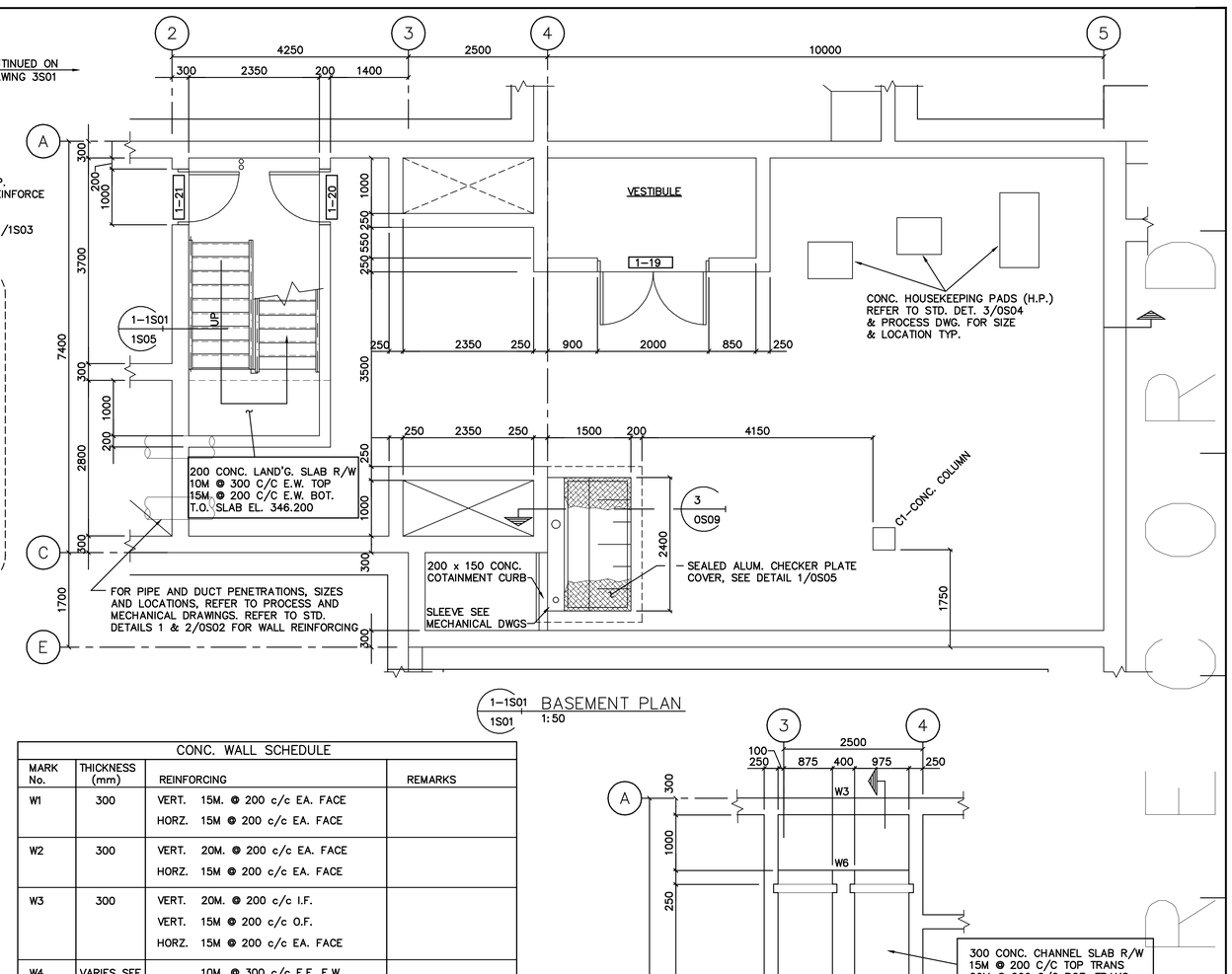
SWWTPA1 H:\PROJECTS\DWG\00864400\DGN\1234\PROC\1P04.prt Plotted 1998-07-15

RECORD



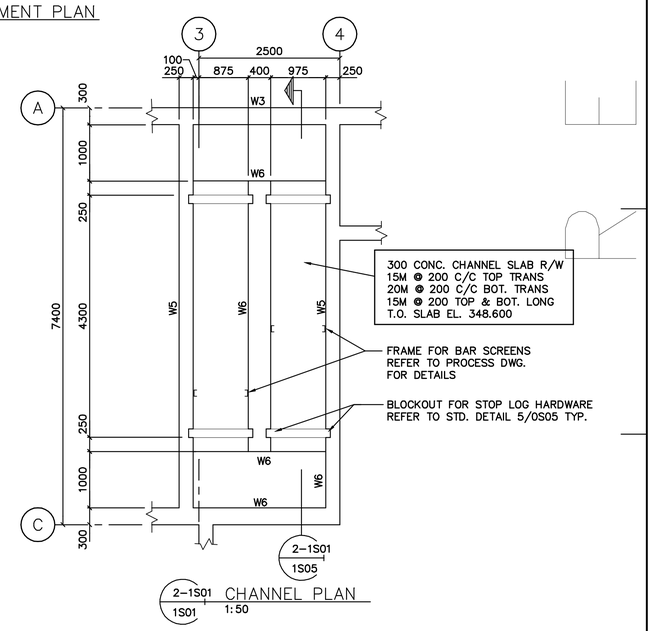
FOUNDATION PLAN

1:100



1-1S01 BASEMENT PLAN

1S01 1:50



2-1S01 CHANNEL PLAN

1S01 1:50

NOTES

1. ALL PROCESS, MECHANICAL AND ELECTRICAL PENETRATIONS THROUGH SLABS AND WALLS MAY NOT BE SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO PROCESS, MECHANICAL AND ELECTRICAL DRAWINGS FOR SIZE AND LOCATION OF OPENINGS.
2. CONTRACTOR TO CONFIRM PIPE, DUCT AND CABLE TRAY OPENING SIZES WITH MECHANICAL AND ELECTRICAL CONTRACTORS.

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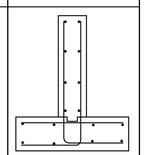
BEAM & COLUMN SCHEDULE

MARK No.	THICKNESS (mm)	REINFORCING	REMARKS
B1	250X900D	2 – 25M. TOP & BOT 4 – 15M MID. 10M STIR. @ 400 C/C	
B2	250X900D	2 – 25M. TOP & BOT 4 – 15M MID. 10M STIR. @ 400 C/C	
B3	400X900D	3 – 20M. TOP 2 – 25M BOT. 4 – 15M @ MID. 10M STIR. @ 400 C/C	
B4	400X900D	5 – 25M. TOP & BOT 4 – 15M MID. 10M STIR. @ 400 C/C	
C1	400X400	8 – 20M. VERT. 10M STIR. @ 400 C/C	

CONC. WALL SCHEDULE

MARK No.	THICKNESS (mm)	REINFORCING	REMARKS
W1	300	VERT. 15M. @ 200 c/c EA. FACE HORZ. 15M @ 200 c/c EA. FACE	
W2	300	VERT. 20M. @ 200 c/c EA. FACE HORZ. 15M @ 200 c/c EA. FACE	
W3	300	VERT. 20M. @ 200 c/c I.F. VERT. 15M @ 200 c/c O.F. HORZ. 15M @ 200 c/c EA. FACE	
W4	VARIES SEE PLANS	10M. @ 300 c/c E.F. E.W.	
W5	250	15M. @ 200 c/c E.W E.F 2–20M T & B	
W6	VARIES SEE PLANS	15M. @ 200 c/c E.W E.F	
W7	250	15M DWLS @ 400 E.F. 4 – 15M EA. FACE HORIZ. FOOTING – 1000 x 300 R/E 4–15M T.& B. LONG. 15M @ 400 TOP TRANS.	
W8	250	10M @ 300 EA. WAY E.F. 2–20M TOP & BOT.	

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No.	Date	By	Revision	Chkd
6	FEB. 98	BWP	RECORD DRAWING	GDH
5	30MAY97	BWP	APPROVED FOR CONSTRUCTION, C.O. 4	GDH
4	10MAR97	BWP	ISSUED FOR CONSTRUCTION	GDH
3	11FEB97	BWP	WORK IN PROGRESS V.2 (WALL DESIGN)	GDH
2	31JAN97	BWP	WORK IN PROGRESS V.1 (BSMT. SLAB)	GDH
1	JULY 96	BWP	ISSUED FOR G.M.P. TENDER	GDH

Design	GDH
Drawn	BWP
Checked	
Submitted	
Approved	

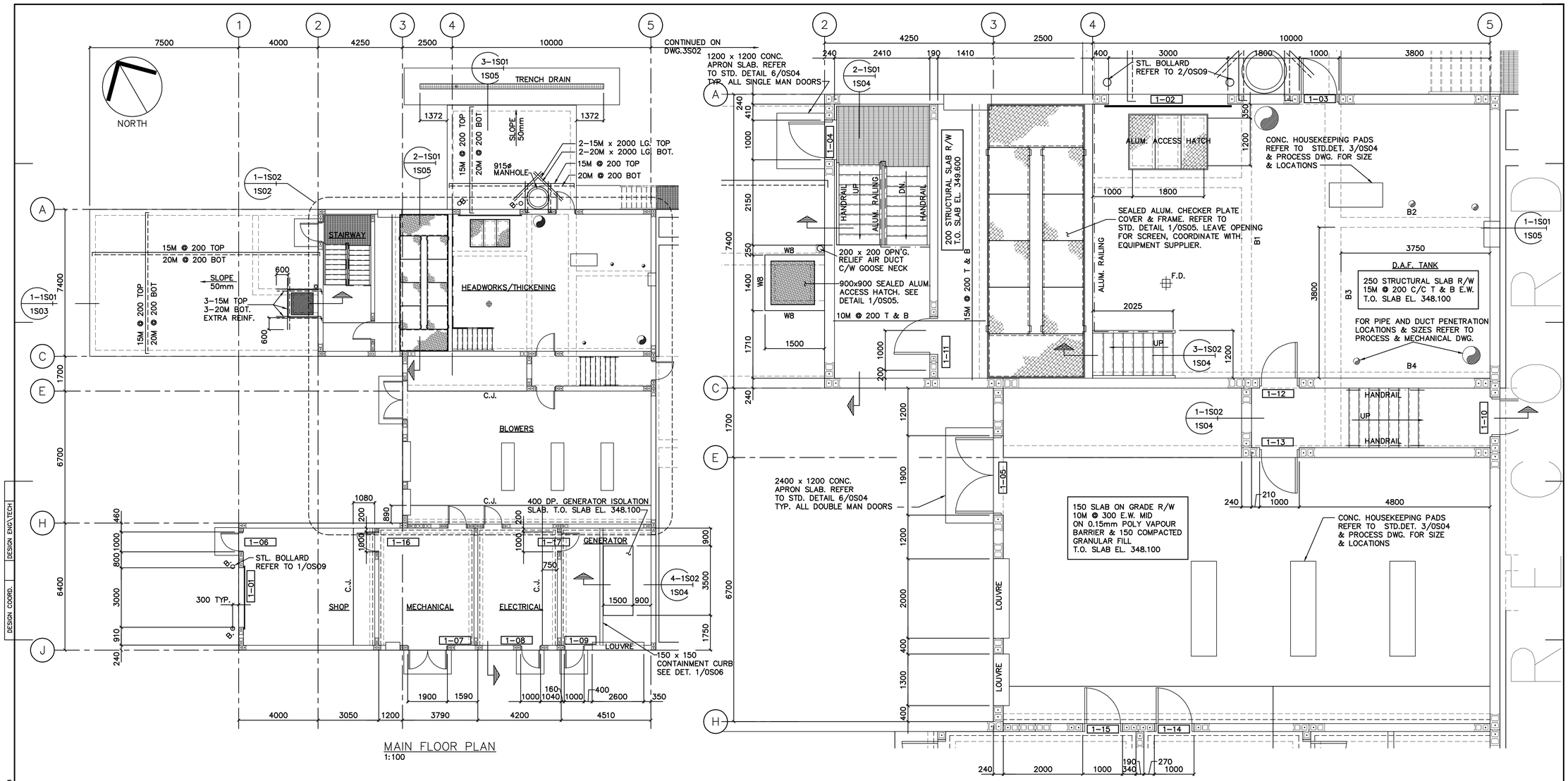
THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 1
HEADWORKS/DAF/BLOWER BUILDING
FOUNDATION PLAN

Reid Crowther 39844

Scale
Date
City File
Sheet 1 of 8
Drawing 1S01

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 5

DESIGN ENG\TECH | DESIGN COORD. | SWMTPA1 H:\PROJECTS\DWG\03884400\02A\123A\STRUCT\1S8441S01 Plotted: 1998-05-28



MAIN FLOOR PLAN
1:100

PARTIAL FLOOR PLAN
1:50

NOTES

1. ALL PROCESS, MECHANICAL AND ELECTRICAL PENETRATIONS MAY NOT BE SHOWN ON THIS DRAWING. REFER TO PROCESS, MECHANICAL AND ELECTRICAL DRAWINGS FOR SIZES AND LOCATIONS.

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
5	FEB. 98	BWP	RECORD DRAWING	GDH					
4	30MAY97	BWP	APPROVED FOR CONSTRUCTION, C.O. 4	GDH					
3	10MAR97	BWP	ISSUED FOR CONSTRUCTION	GDH					
2	11FEB97	BWP	WORK IN PROGRESS V.1 (CONC. SLAB DESIGNS)	BWP					
1	JULY 96	BWP	ISSUED FOR G.M.P. TENDER	GDH					

Design GDH
Drawn BWP
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 1
HEADWORKS/DAF/BLOWER BUILDING
MAIN FLOOR PLAN

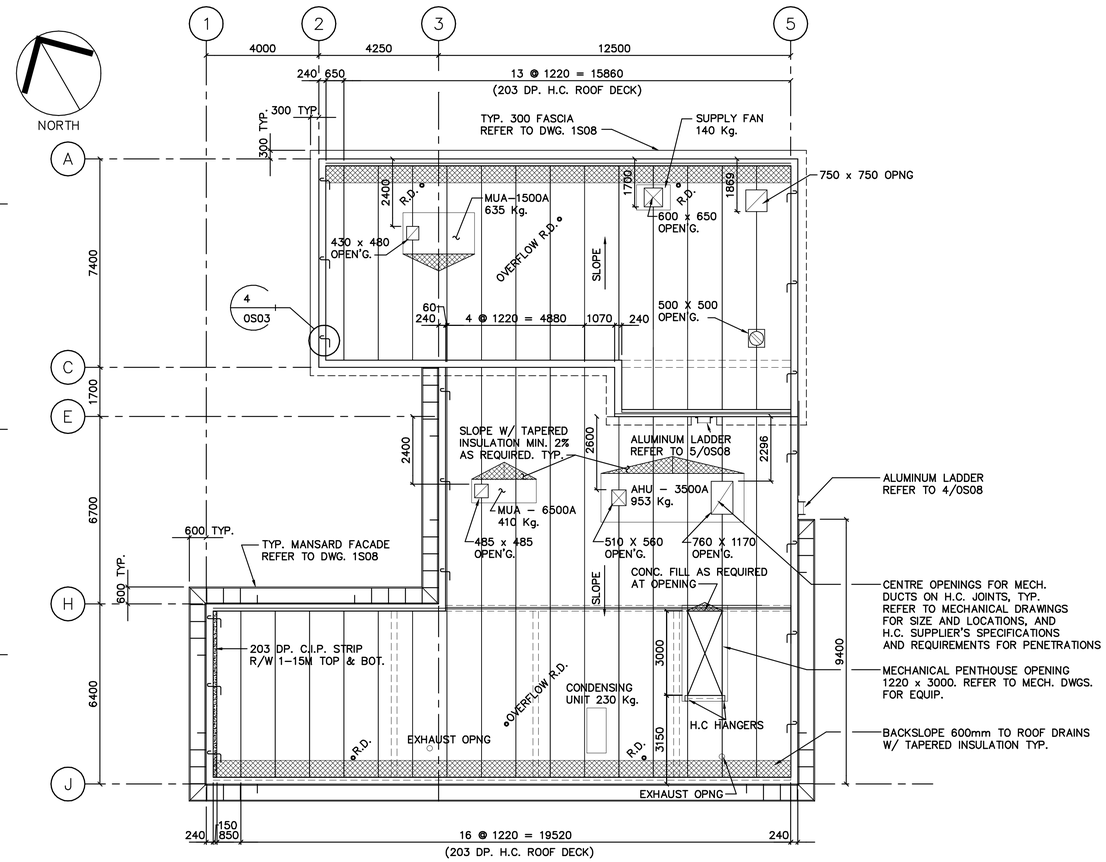
Reid Crowther 39844

Scale AS NOTED
Date JUNE 1996
City File
Sheet 2 of 8
Drawing 1S02

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO

5

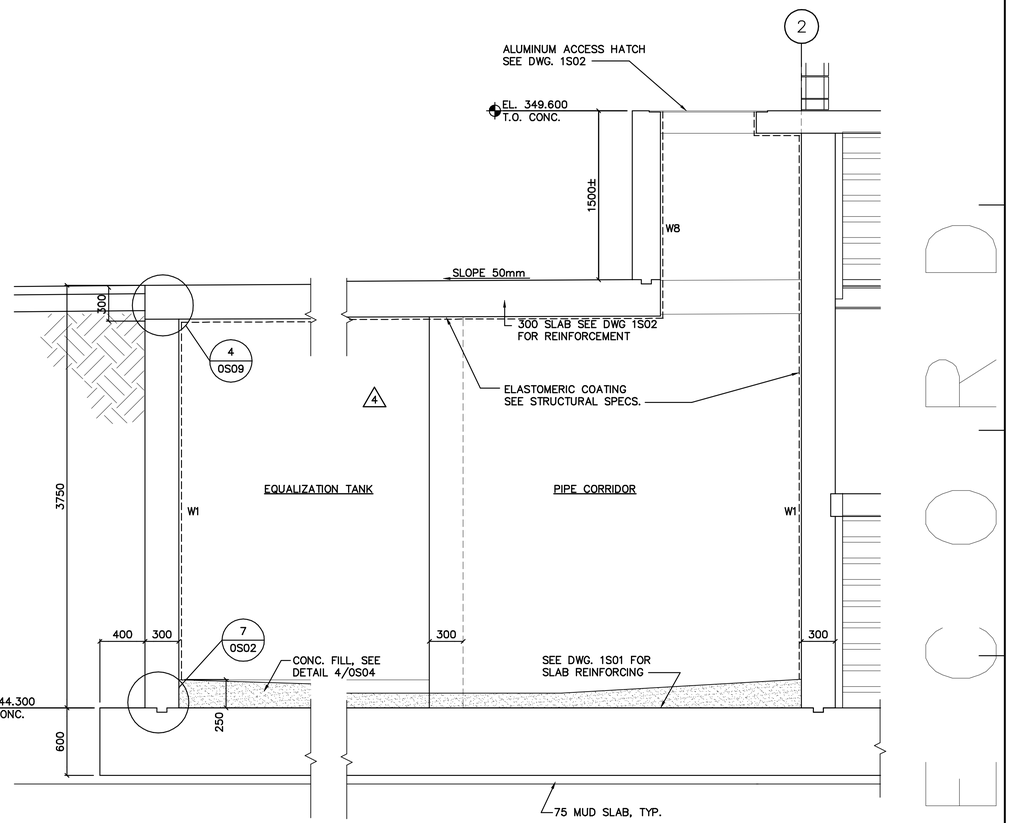
SWWTPA1 H:\PROJECTS\SNY\03084400\02A\123-1\STRUCT\1\08441502 Plotted 1998-05-28



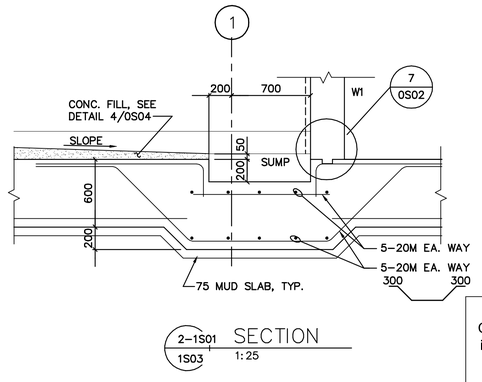
ROOF PLAN
1:100

ROOF LOADING
SUPERIMPOSED DEAD LOAD = 0.8 kPa.
LIVE LOAD (SNOW) = 1.54 kPa. PLUS
BUILT-UP SNOW
AS PER N.B.C.

NOTE:
REFER TO MECHANICAL DRAWINGS AND SPECS.
FOR SIZE, LOCATION & WEIGHT OF ROOF TOP
EQUIPMENT.



1-1S01 / 1S03 SECTION
1:25



2-1S01 / 1S03 SECTION
1:25

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
6	30MAY97	BWP	APPROVED FOR CONSTRUCTION, C.O. 4	GDH					
5	15MAY97	BWP	MECH. PENTHOUSE CCN #6	GDH					
4	14MAY97	BWP	EQUAL. TANK ROOF CCN #5	GDH					
3	10MAR97	BWP	ISSUED FOR CONSTRUCTION	GDH					
2	11FEB97	BWP	ISSUED FOR WORK IN PROGRESS V1 (FDN DESIGN)	GDH	8	FEB. 98	BWP	RECORD DRAWING	GDH
1	JULY 96	BWP	ISSUED FOR G.M.P. TENDER	GDH	7	2JUNE97	BWP	APPROVED FOR CONSTRUCTION, C.O. 7 & 8	GDH

Design	GDH
Drawn	BWP
Checked	
Submitted	
Approved	

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT

Reid Crowther 39844

AREA 1

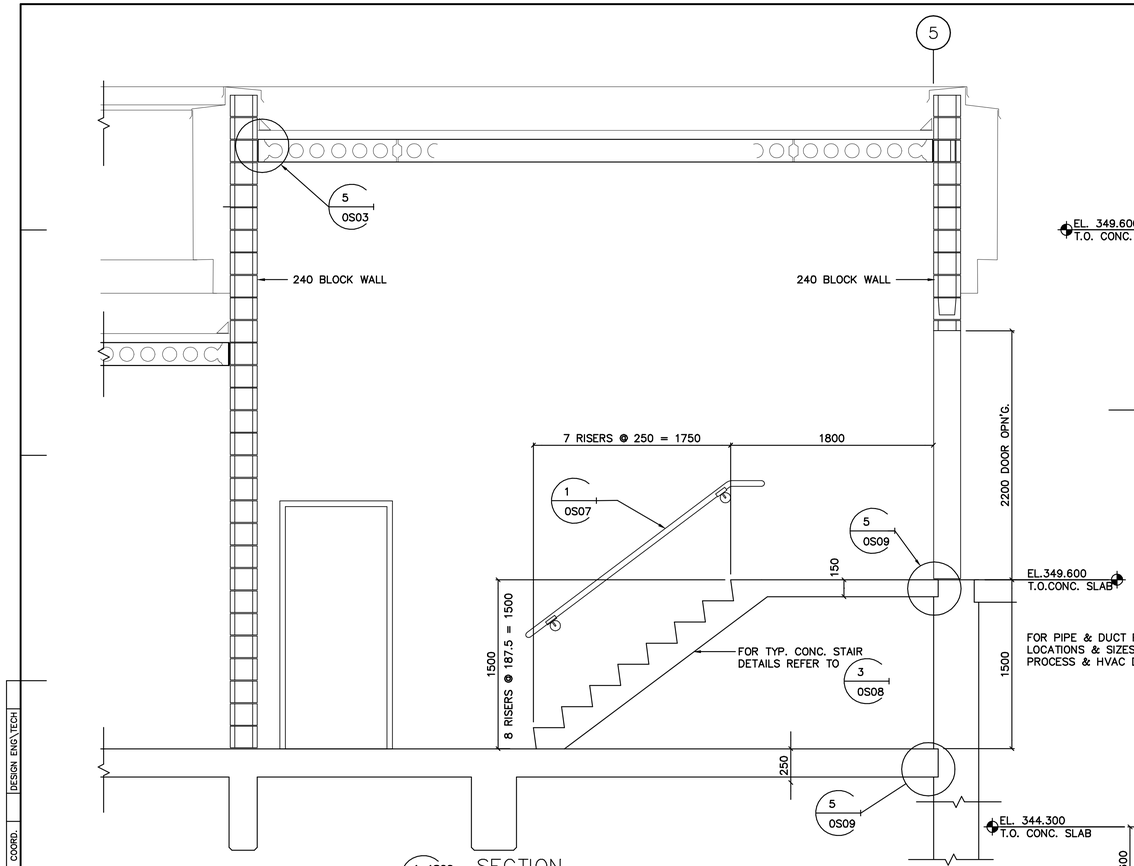
HEADWORKS/DAF/BLOWER BUILDING
ROOF PLAN

Scale	
Date	JUNE 1996
City File	
Sheet	3 of 8
Drawing	1S03

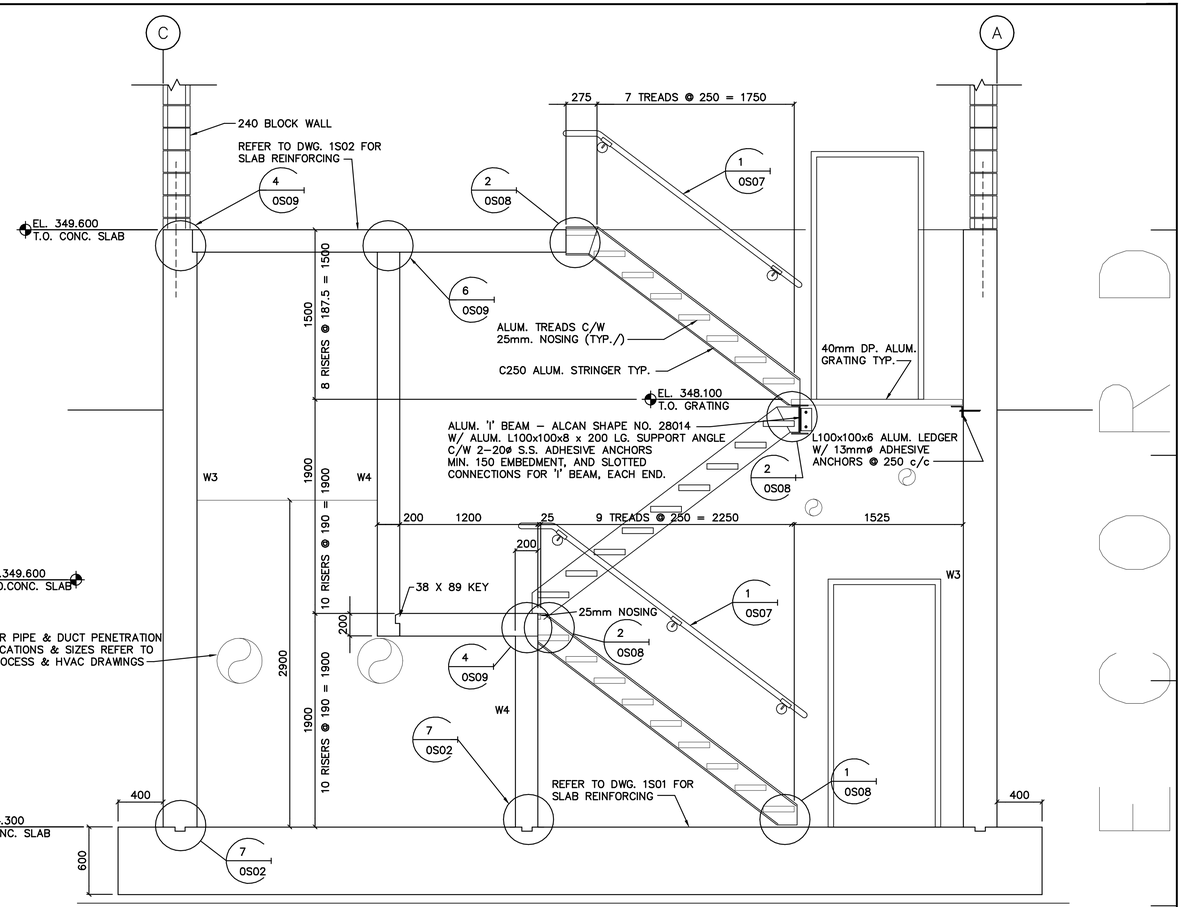
SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 8

SWWTP A1 H:\PROJECTS\ENV\03984400\02A\123A\STRUCT\1\8441503 Plotted 1998-05-28 DESIGN ENG\TECH DESIGN COORD.

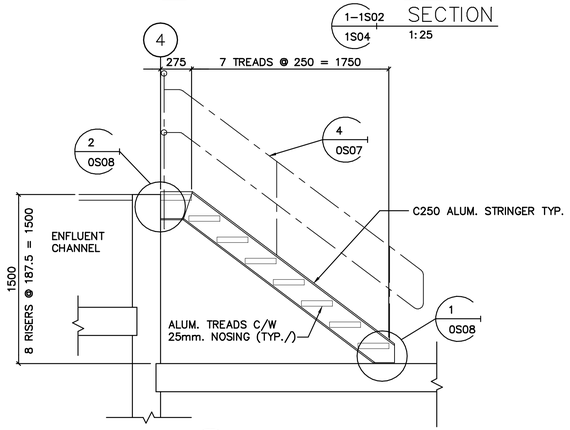
RECORD



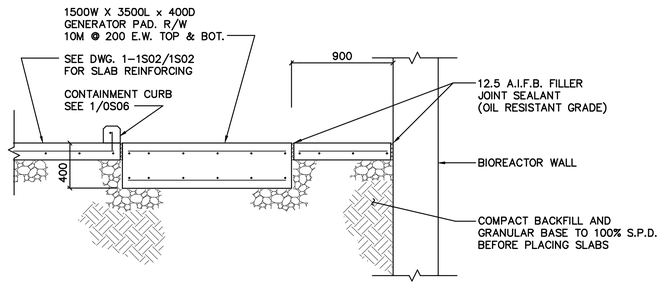
1–1S02 SECTION
1S04 1:25



2–1S02 SECTION
1S04 1:25



3–1S02 SECTION
1S04 1:25



4–1S02 SECTION
1S04 1:25

NOTES

1. ALL ALUMINUM SURFACES IN CONTACT WITH CONCRETE OR MASONRY ARE TO BE COATED WITH TWO COATS OF ALKALI RESISTANT BITUMINOUS COATING, TYP.

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
5	FEB. 98	BWP	RECORD DRAWING	GDH					
4	30MAY97	BWP	APPROVED FOR CONSTRUCTION, C.O. 4	GDH					
3	10MAR97	BWP	ISSUED FOR CONSTRUCTION	GDH					
2	11FEB97	BWP	WORK IN PROGRESS V.1 (WALL DESIGN)	GDH					
1	JULY 96	BWP	ISSUED FOR G.M.P. TENDER	GDH					

DESIGN ENG\TECH
DESIGN COORD.
SWWTPA1

Design GDH
Drawn BWP
Checked
Submitted
Approved

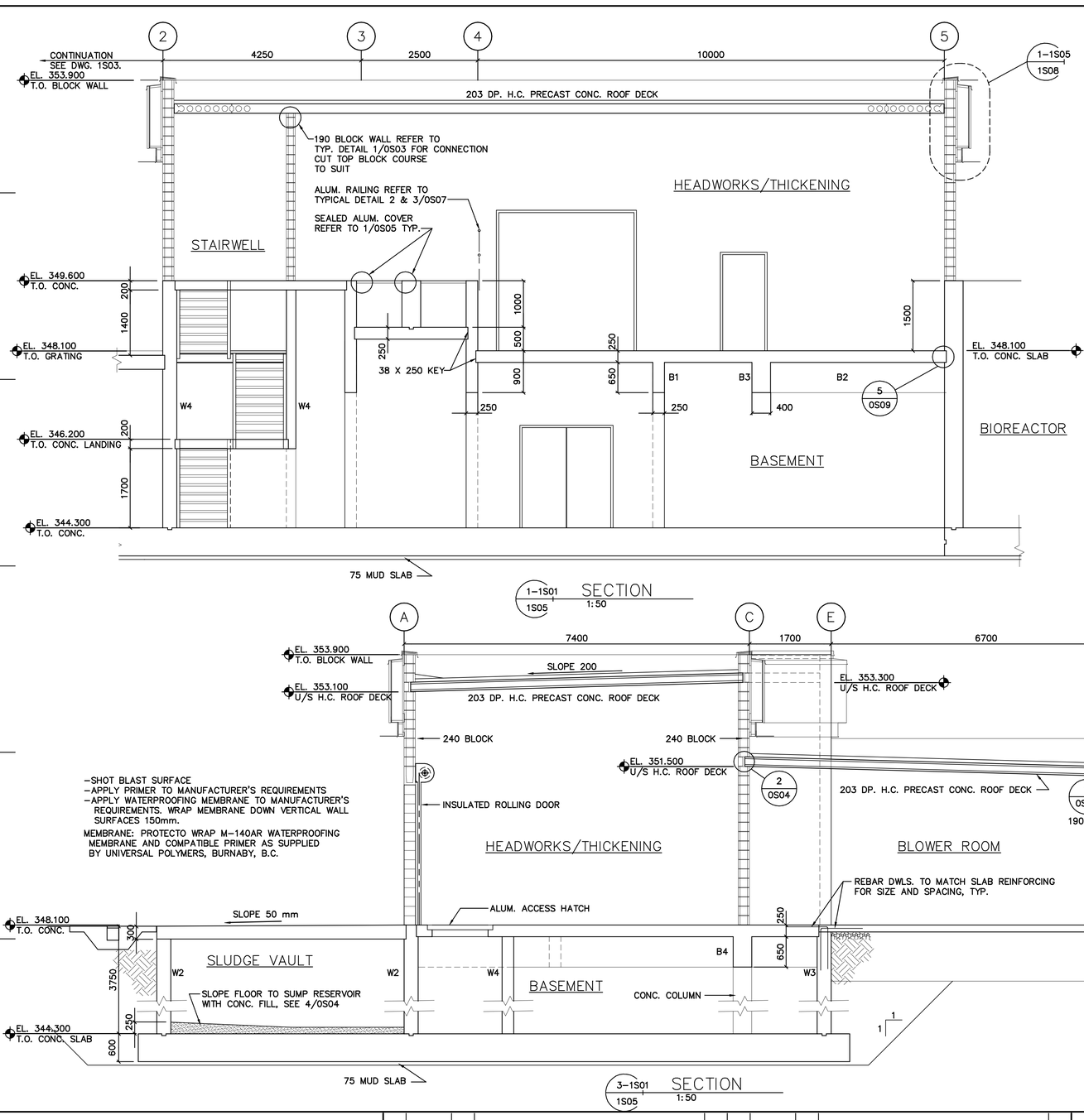
THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 1

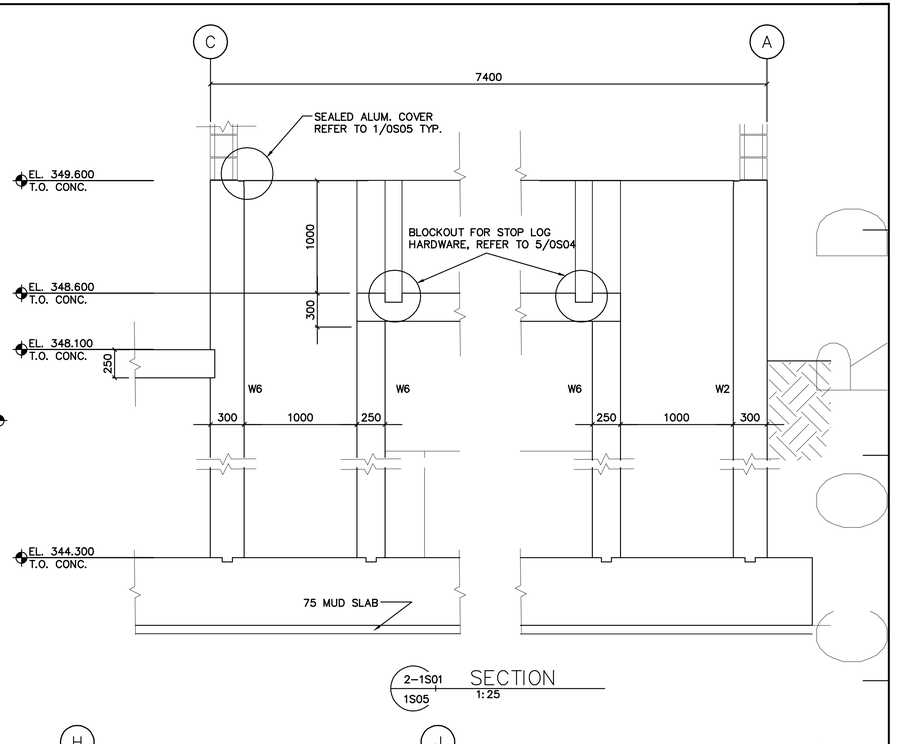
Reid Crowther
39844

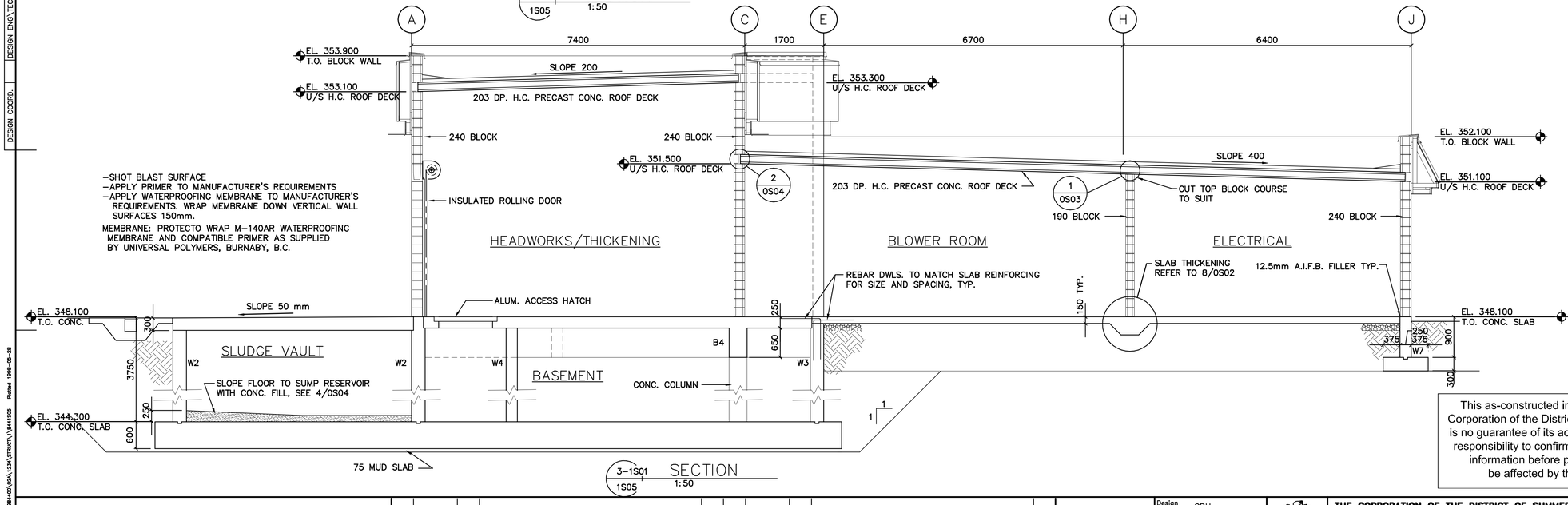
HEADWORKS/DAF/BLOWER BUILDING
STAIR SECTIONS

Scale 1:50
Date JUNE 1996
City File
Sheet 4 of 8
Drawing 1S04

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 5







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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
5	JAN. 98	BWP	RECORD DRAWING	GDH					
4	30MAY97	BWP	APPROVED FOR CONSTRUCTION, C.O. 4	GDH					
3	10MAR97	BWP	ISSUED FOR CONSTRUCTION	GDH					
2	11FEB97	BWP	WORK IN PROGRESS V.1 (FDN. DESIGN)	GDH					
1	JULY 96	BWP	ISSUED FOR G.M.P. TENDER	GDH					

Design GDH
Drawn BWP
Checked
Submitted
Approved

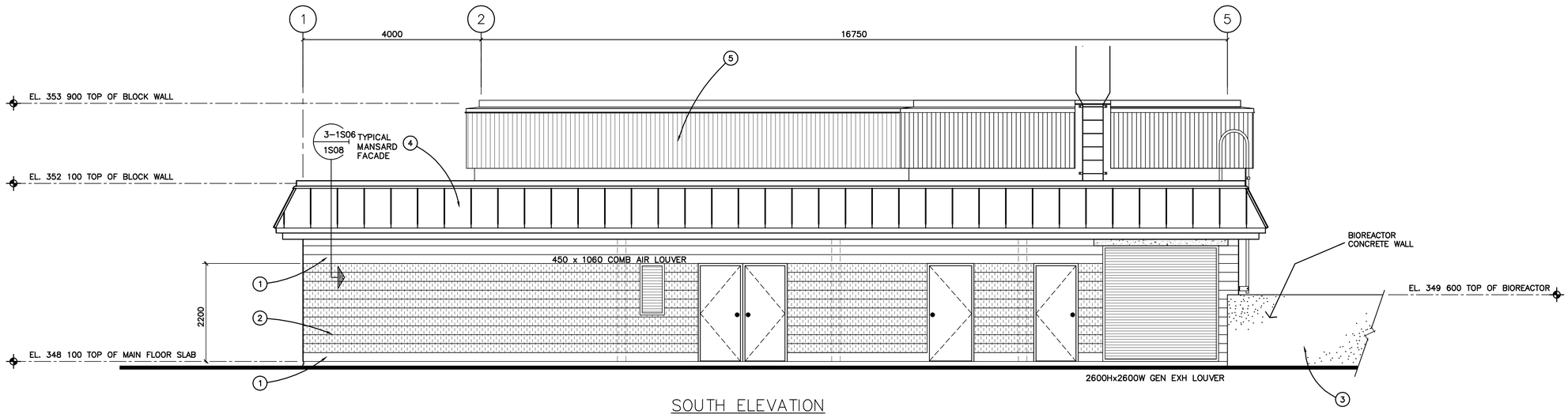
THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 1
Reid Crowther 39844

HEADWORKS/DAF/BLOWER BUILDING
BUILDING SECTIONS

Scale 1:50
Date JUNE 1996
City File
Sheet 5 of 8
Drawing 1S05

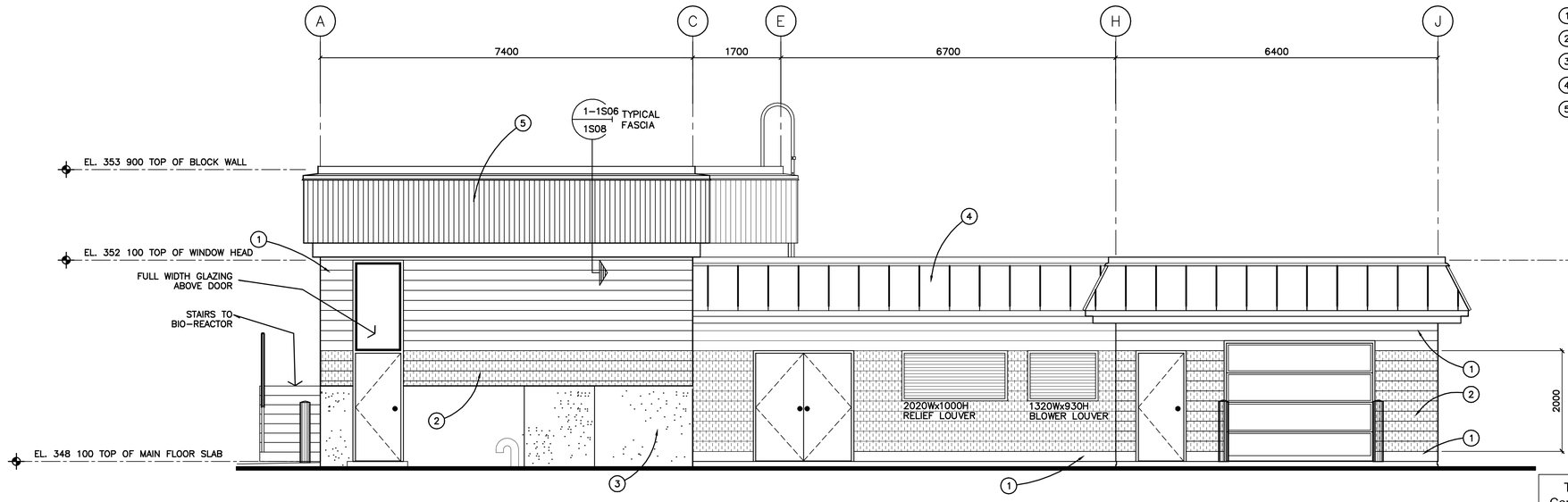
SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 4

DESIGN ENG\TECH
DESIGN COORD.
SWWTPA1 H:\PROJECTS\DAN\0098-400\DGN\123A1.DWG(CT:\)8-1-1505 Printed 1998-05-28



SOUTH ELEVATION

1:50



WEST ELEVATION

1:50

EXTERIOR FINISHES

1. SMOOTH FACED CONCRETE BLOCK
2. COLOURED SPLIT FACED CONCRETE BLOCK
3. EXPOSED CONCRETE
4. PRE-FINISHED STANDING SEAM METAL ROOF
5. METAL SIDING - 38mm DEEP

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No.	Date	By	Revision	Chkd
4	JAN. 98	BWP	RECORD DRAWING	GDH
3	30MAY97	BWP	APPROVED FOR CONSTRUCTION, C.O. 4	GDH
2	10MAR97	BWP	ISSUED FOR CONSTRUCTION	GDH
1	JULY 96	BWP	ISSUED FOR G.M.P. TENDER	GDH

PLANNING DESIGN
3-2908 32nd St.
Vernon, B.C. V1T 5M1
Tel/Fax: (604) 260-1450

Design	PQA
Drawn	KP
Checked	
Submitted	
Approved	

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT

AREA 1

HEADWORKS/DAF/BLOWER BUILDING
ELEVATIONS

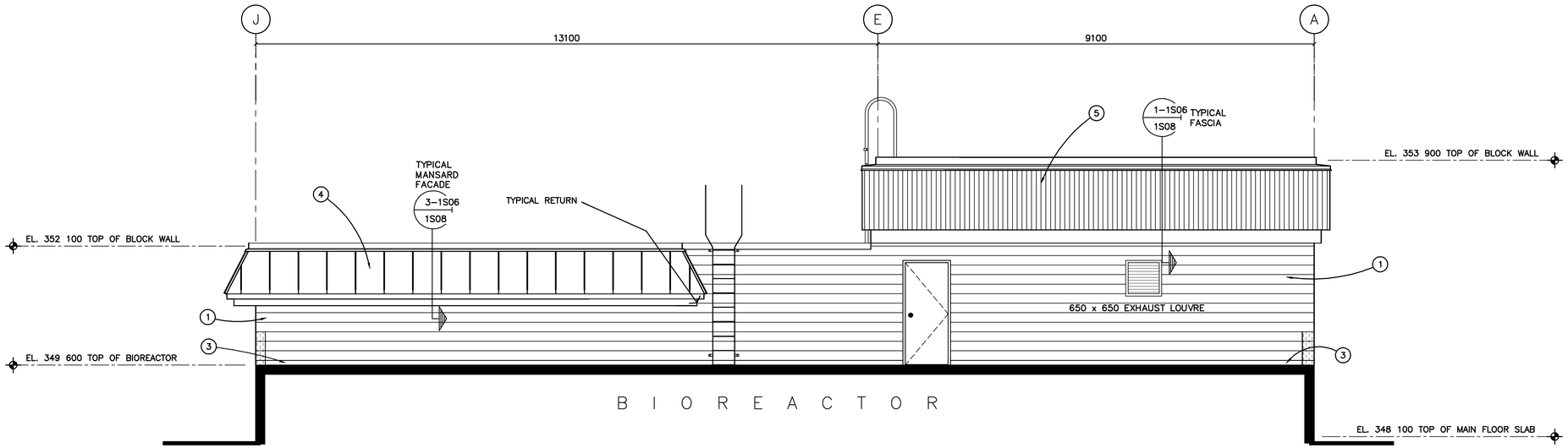
Reid Crowther
39844

Scale	1:50
Date	JULY 1996
City File	
Sheet	6 of 8
Drawing	1S06

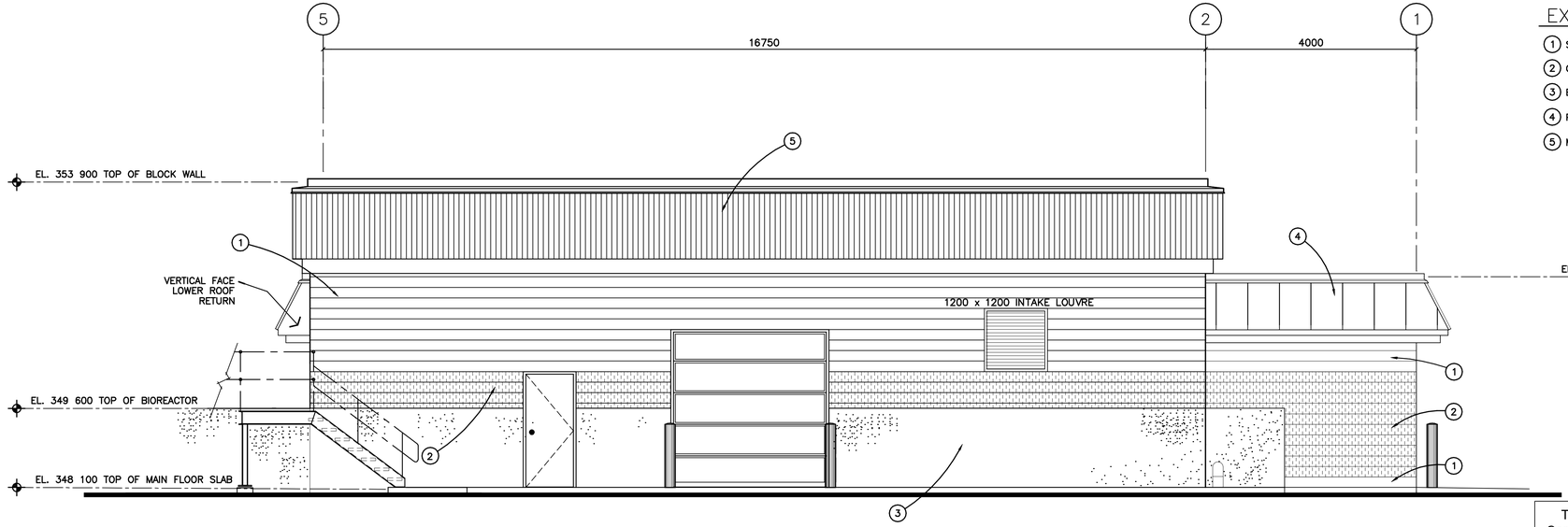
SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO

4

SWWTP1A H:\PROJECTS\ENV\03984400\02A\123A\STRUCT\1S441S06 Plotted 1998-05-28 DESIGN COORD. DESIGN ENG\TECH



EAST ELEVATION
1:50



NORTH ELEVATION
1:50

EXTERIOR FINISHES

1. SMOOTH FACED CONCRETE BLOCK
2. COLOURED SPLIT FACED CONCRETE BLOCK
3. EXPOSED CONCRETE
4. PRE–FINISHED STANDING SEAM METAL ROOF
5. METAL SIDING – 38mm DEEP

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No.	Date	By	Revision	Chkd
4	JAN. 98	BWP	RECORD DRAWING	GDH
3	30MAY97	BWP	APPROVED FOR CONSTRUCTION, C.O. 4	GDH
2	10MAR97	BWP	ISSUED FOR CONSTRUCTION	GDH
1	JULY 96	BWP	ISSUED FOR G.M.P. TENDER	GDH

PQA PLANNING DESIGN
3-2908 32nd St.
Vernon,B.C. V1T 5M1
Tel/Fax:
(604) 260-1450

Design	PQA
Drawn	KP
Checked	
Submitted	
Approved	

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 1
Reid Crowther 39844

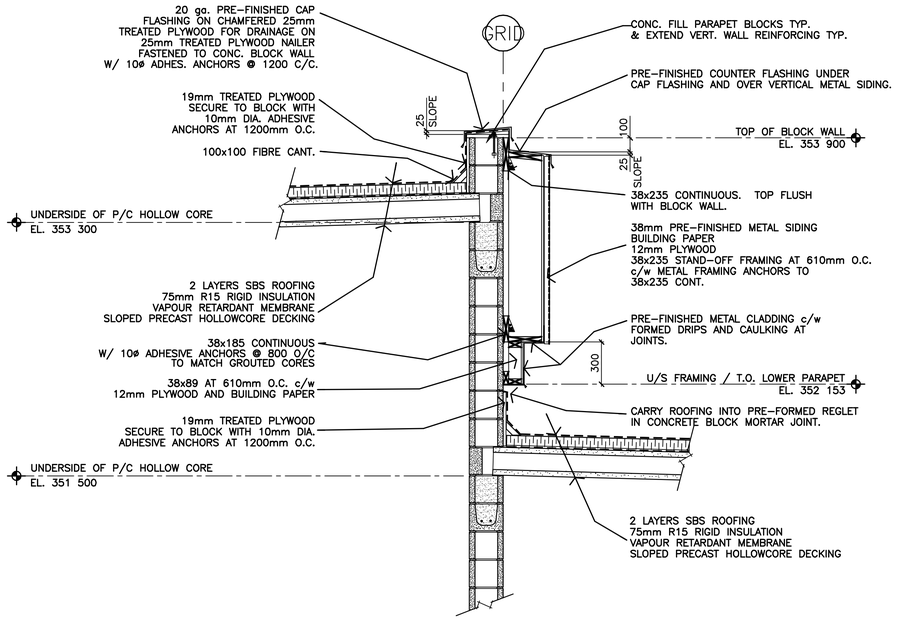
HEADWORKS/DAF/BLOWER BUILDING
ELEVATIONS

Scale	1:50
Date	JULY 1996
City File	
Sheet	7 of 8
Drawing	1S07

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 3

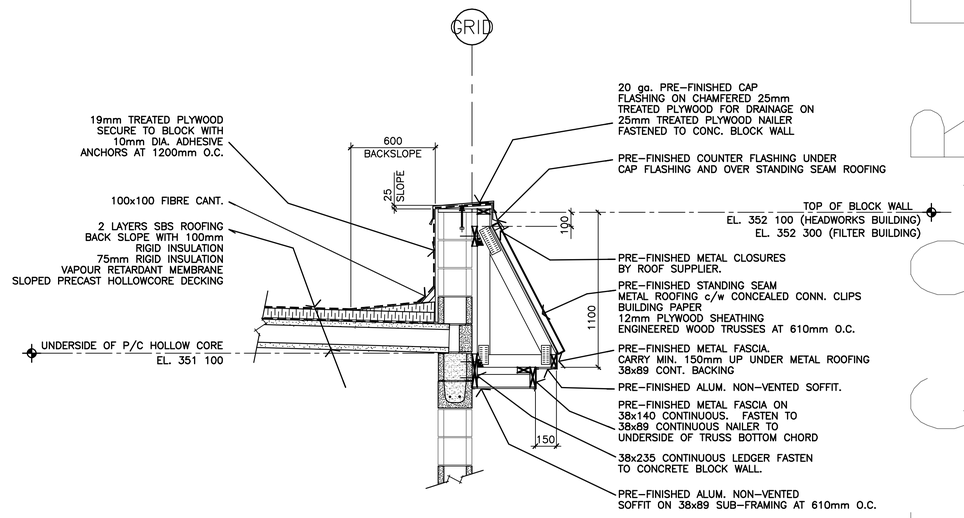
DESIGN COORD. | DESIGN ENG\TECH

SWWTP.A1 H:\PROJECTS\ENV\03984400\02A\1234\STRUCT\1_8441S07 Plotted 1998-05-28



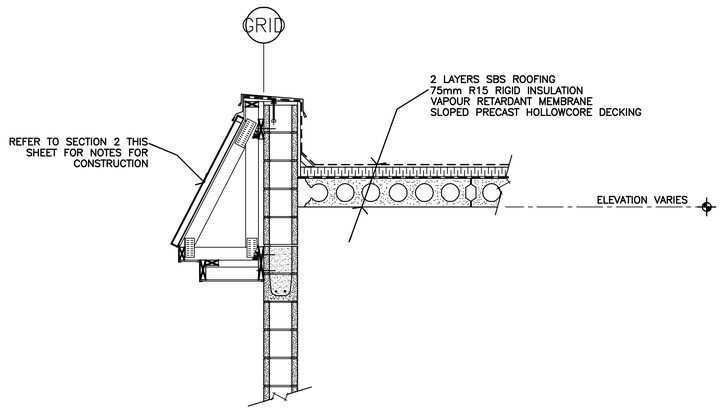
1-1S08 / 1S08 HEADWORKS WALL SECTION

1:20



2-1S08 / 1S08 HEADWORKS WALL SECTION

1:20



3-1S08 / 1S08 HEADWORKS WALL SECTION

1:20

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
4	JAN. 98	BWP	RECORD DRAWING	GDH					
3	30MAY97	BWP	APPROVED FOR CONSTRUCTION, C.O. 4	GDH					
2	10MAR97	BWP	ISSUED FOR CONSTRUCTION	GDH					
1	JULY 96	BWP	ISSUED FOR G.M.P. TENDER	GDH					

PQA PLANNING DESIGN
3-2908 32nd St. Vernon, B.C. V1T 5M1
Tel/Fax: (604) 260-1450

Design	PQA
Drawn	KP
Checked	
Submitted	
Approved	

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 1

Reid Crowther 39844

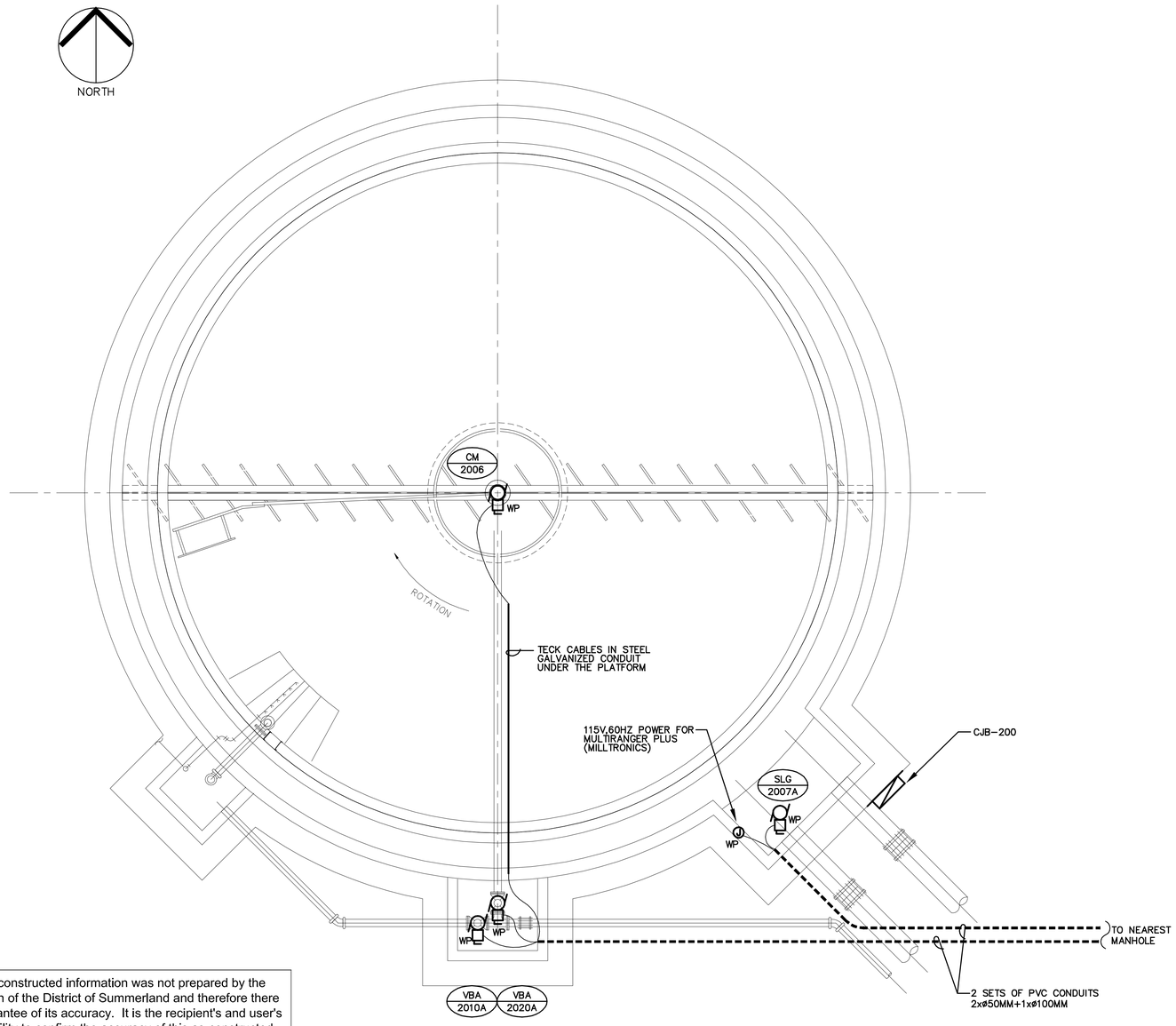
HEADWORKS/DAF/BLOWER BUILDING DETAILS

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO →

Scale	AS NOTED
Date	JUNE 1996
City File	
Sheet	8 of 8
Drawing	1S08

3

DESIGN ENG\TECH | DESIGN COORD. | SWWTP1 H:\PROJECTS\ENV\039844\00\02A\1234\STRUCT\1844 1S08 Plotted 1998-05-28



NOTE:
REFER TO DWG. 0E08 FOR CABLING TO ELECTRICAL ROOM IN PROCESS BLDG.

1 / 2E01 PRIMARY CLARIFIER – POWER
SCALE 1 : 50

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
4	26JUN98	KM	RECORD DRAWING	KJW					
3	38MAY97	KM	APPROVED FOR CONSTRUCTION, CO 4	KHM					
2	09APR97	KM	ISSUED FOR CONSTRUCTION (DUCT SCHEDULE)	KHM					
1	JULY 96	KM	ISSUED FOR GMP TENDER	KHM					

Design KM
Drawn KM
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 2 – PRIMARY CLARIFIER
POWER

Reid Crowther 39844

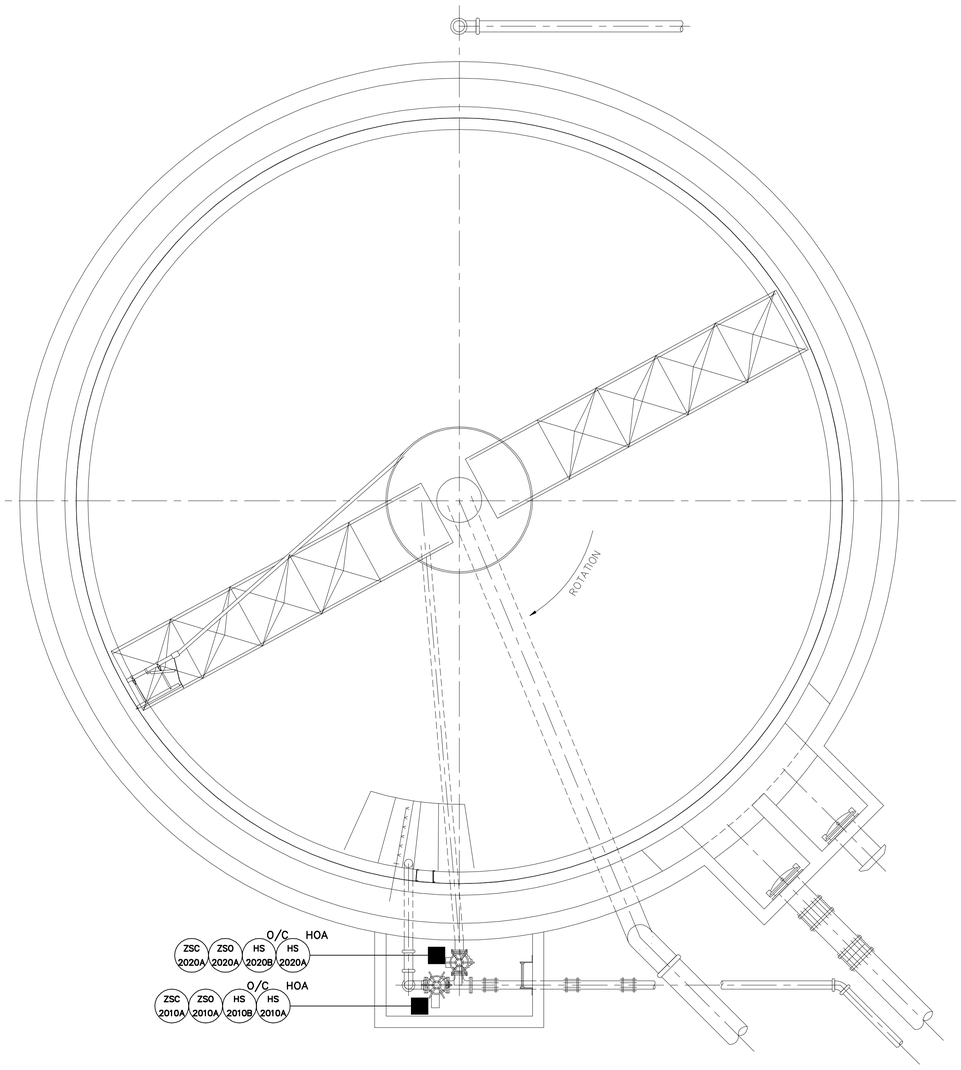
Scale AS SHOWN
Date JULY 1996
City File
Sheet of
Drawing 2E01

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 4

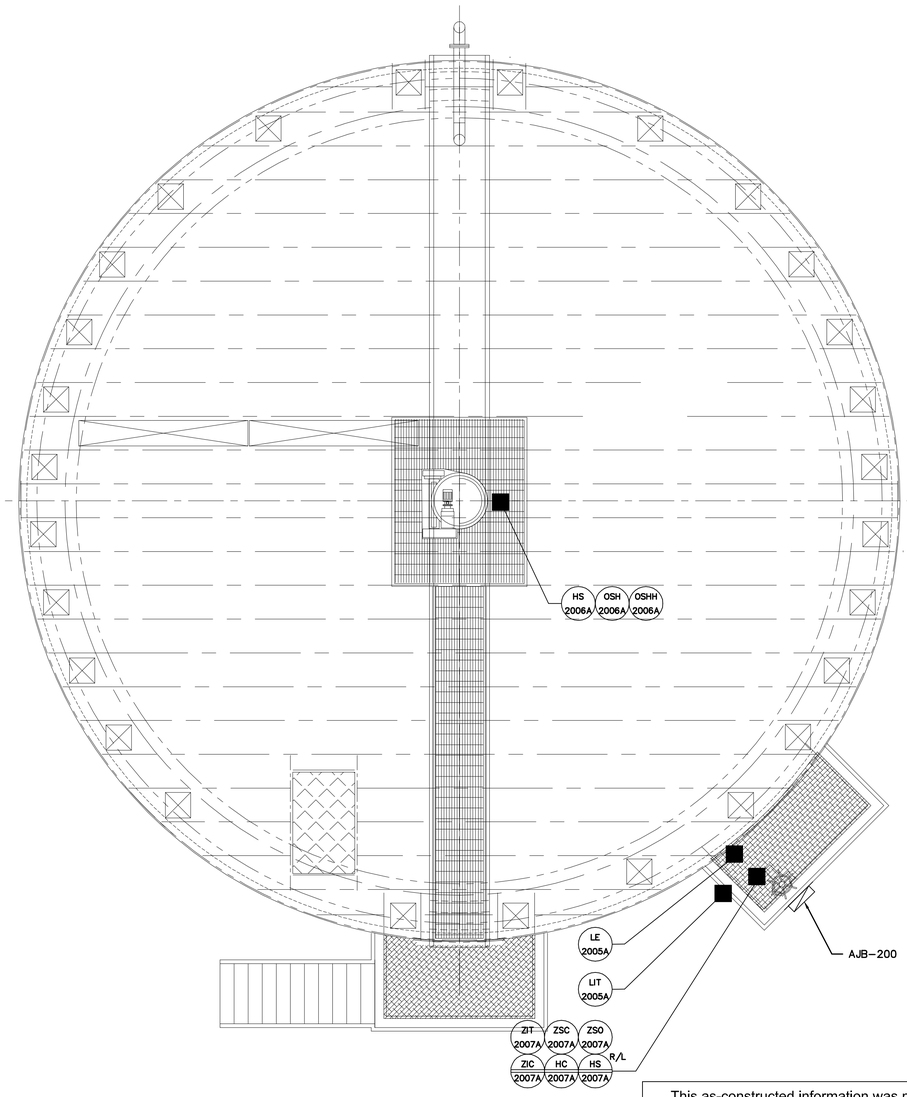
DESIGN COORD. | DESIGN ENG\TECH

SWMTP A1 H:\PROJECTS\DWG\039844\00\DGN\12AA.E(LEC)@44201 Plotted 1998-07-17

RECORD



FLOOR PLAN
1:50



ROOF PLAN
1:50

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AS CONSTRUCTED RECORD

DESIGN ENG\TECH
DESIGN COORD.
SWWTPA1 H:\PROJECTS\DWG\3398\4400\00A\123A\ELEC\#4280 Plotted: 1998-07-17

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
5	JUNE 98	KM	RECORD DRAWING	KJW					
4	28MAY97	KJW	APPROVED FOR CONSTRUCTION, C.O. 4	CGL					
3	5MAR97	KJW	ISSUED FOR CONSTRUCTION	CGL					
2	9JAN97	KJW	WORK IN PROGRESS V.1 (NO CHANGES)	KAC					
1	JULY 96	KJW	ISSUED FOR GMP TENDER	CGL					

Design BLC
Drawn GDS/KJW
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT

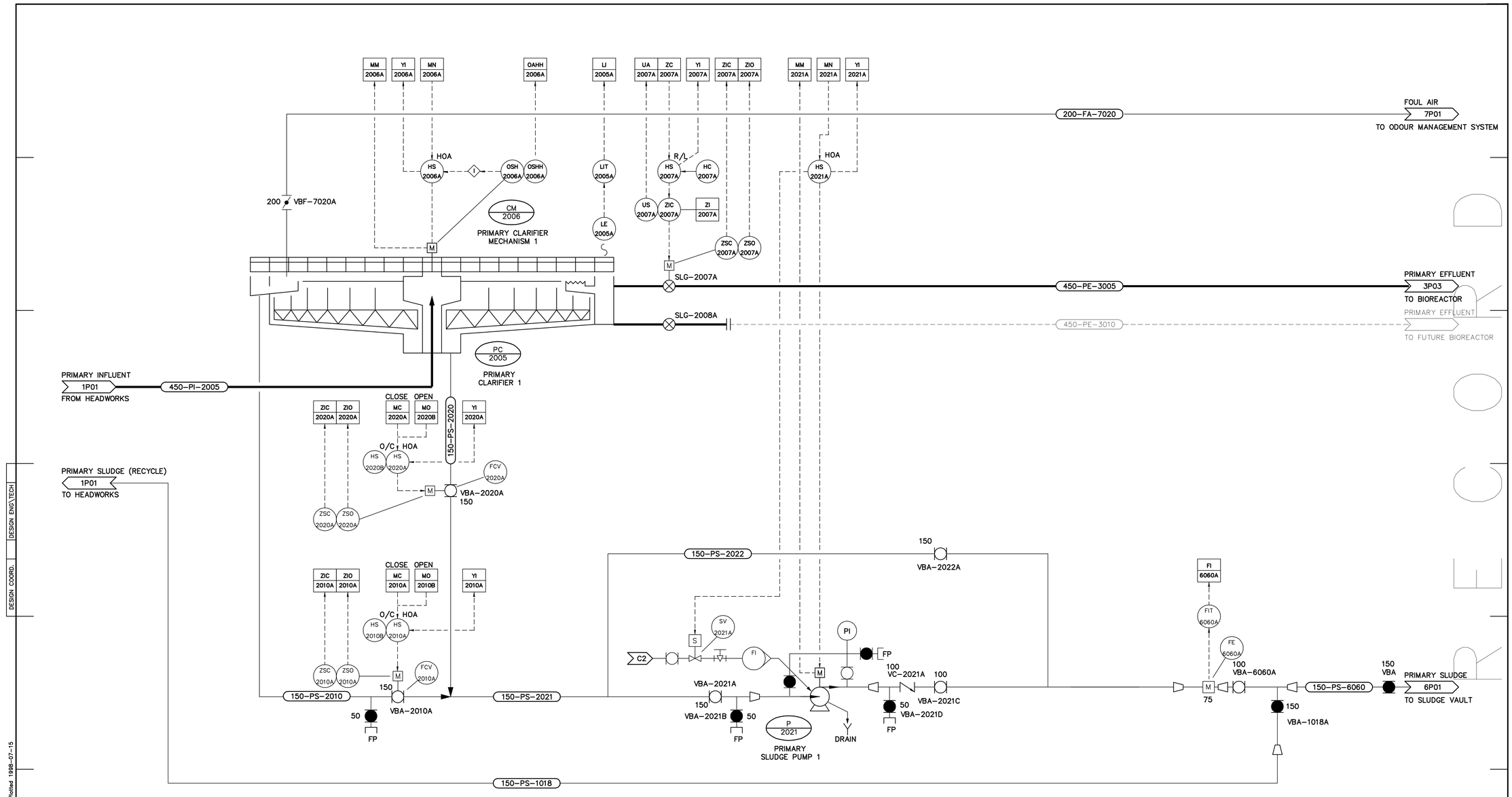
AREA 2 – PRIMARY CLARIFIER

INSTRUMENTATION LAYOUT

Reid Crowther
39844

Scale AS NOTED
Date JULY 1996
City File
Sheet 1 of 1
Drawing 2101

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 5



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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
5	19 MAY 98	GDB	RECORD DRAWING	KJW					
4	28MAY97	KJW	APPROVED FOR CONSTRUCTION, C.O. 4	CGL					
3	28FEB97	KJW	ISSUED FOR CONSTRUCTION	CGL					
2	8JAN97	KJW	WORK IN PROGRESS V.1 (MAG METERS)	KAC					
1	JULY 96	KJW	ISSUED FOR GMP TENDER	BLC					

Design CGL/BLC
Drawn GDS/KJW
Checked
Submitted
Approved

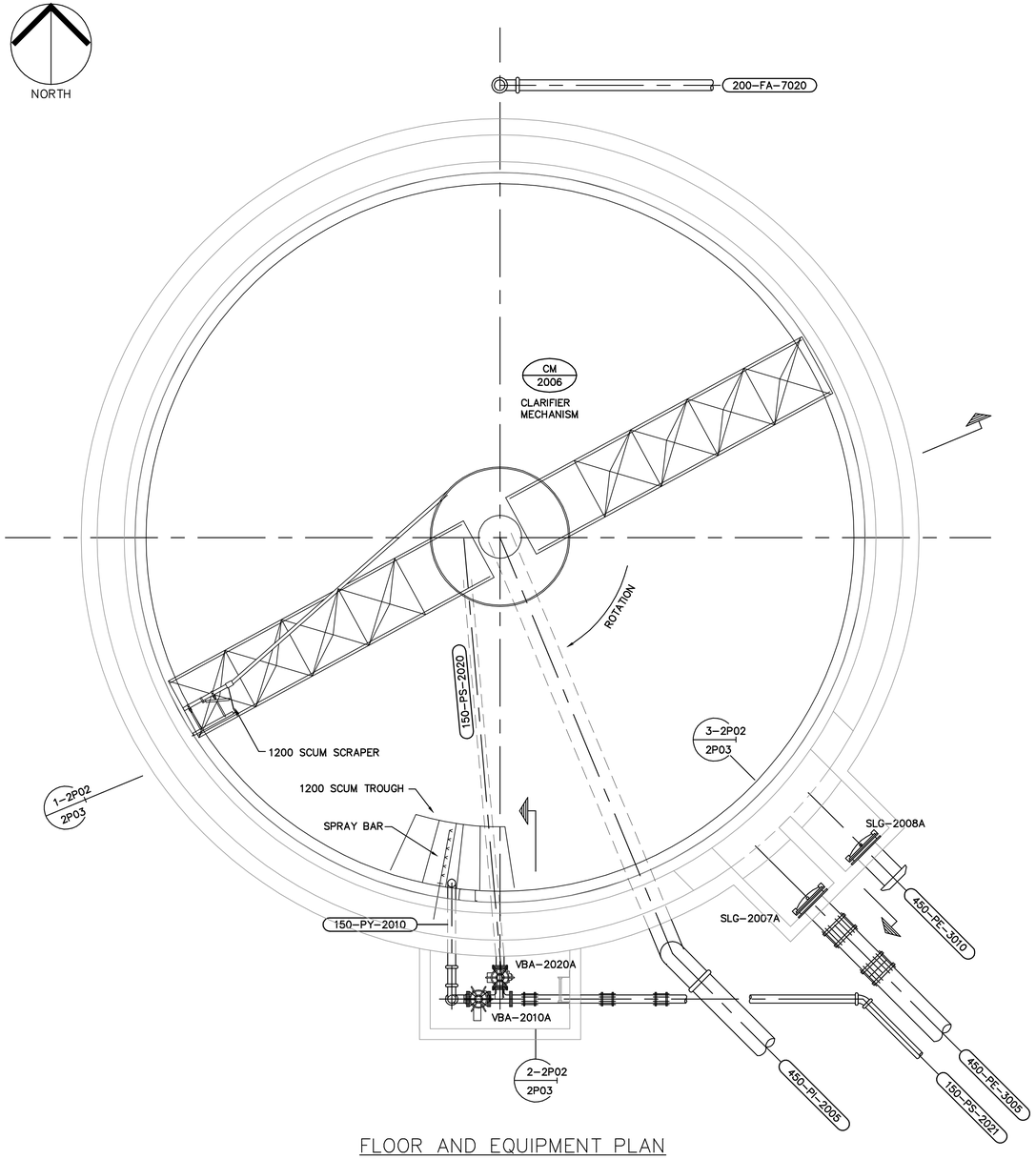
THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 2 – PRIMARY CLARIFICATION
Reid Crowther 39844

PRIMARY CLARIFIER 1
PIPING AND INSTRUMENTATION DIAGRAM

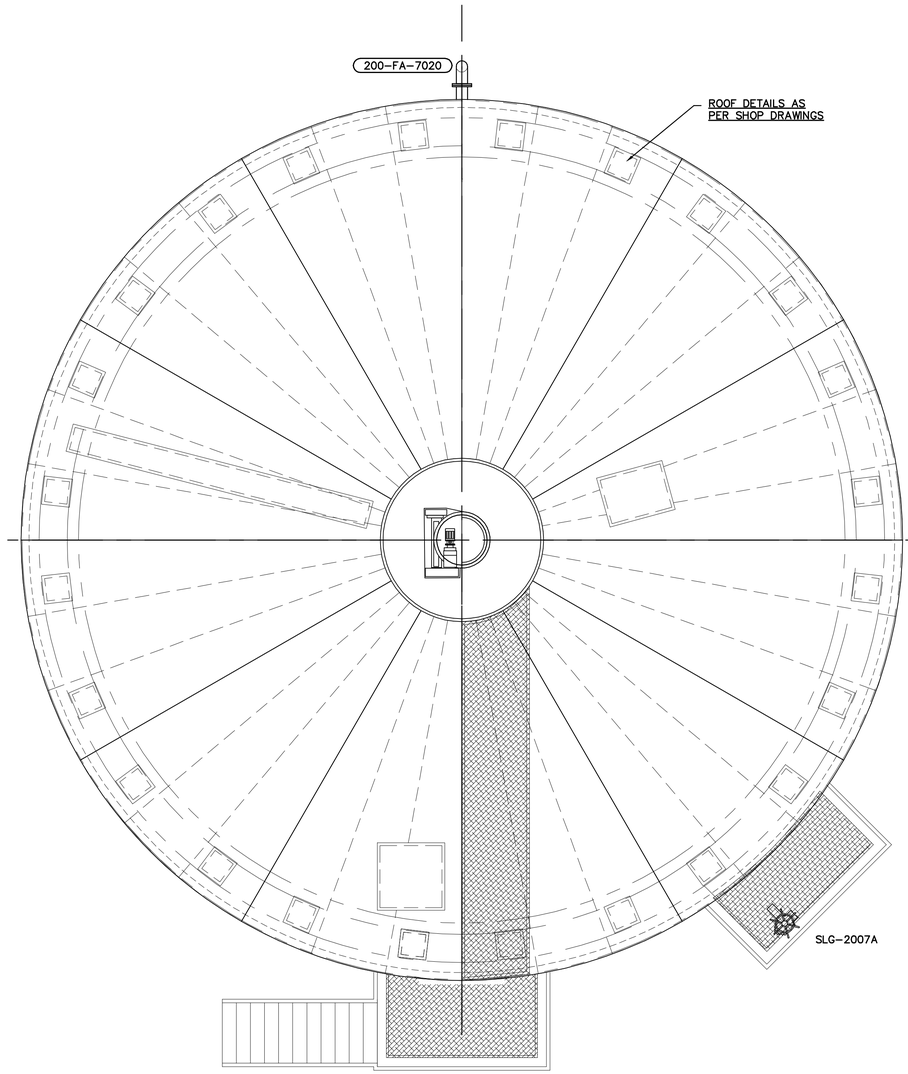
Scale AS NOTED
Date MAY 1996
City File
Sheet of
Drawing 2P01

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 5

DESIGN ENG\TECH
DESIGN COORD.
Plotted 1998-07-15
H:\PROJECTS\DWG\03984400\GDA\1234\WST\8442P01
SWWTPA1



FLOOR AND EQUIPMENT PLAN
1:50



ROOF PLAN
1:50

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4	19 MAY 98	GDB	RECORD DRAWING	KJW					
3	7MAR97	KJW	ISSUED FOR CONSTRUCTION C.O. 3	CGL					
2	12FEB97	KJW	ISSUED FOR CONSTRUCTION	CGL					
1	JULY 96	KJW	ISSUED FOR GMP TENDER	CGL					

Design CGL/KJW
Drawn KJW
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 2 – PRIMARY CLARIFIER
PLAN

Reid Crowther
39844

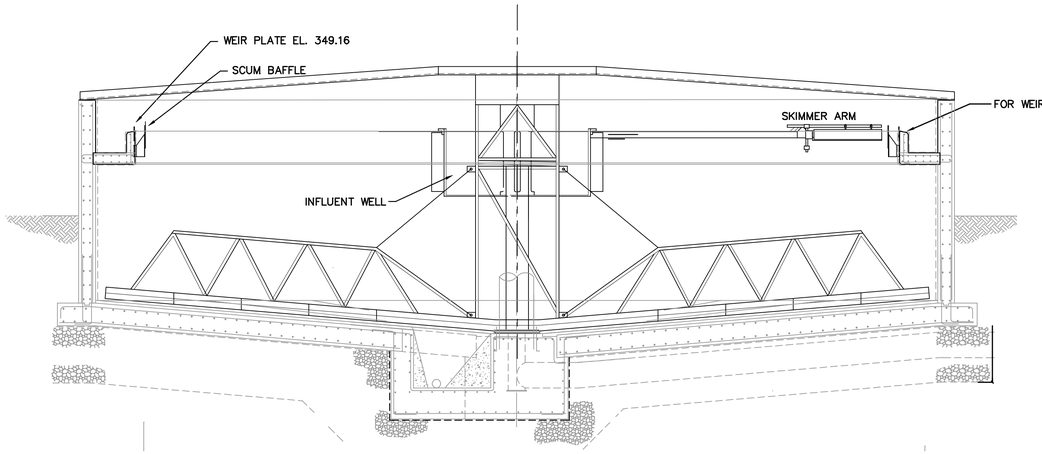
Scale AS NOTED
Date JUNE 1996
City File
Sheet of
Drawing 2P02

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 4

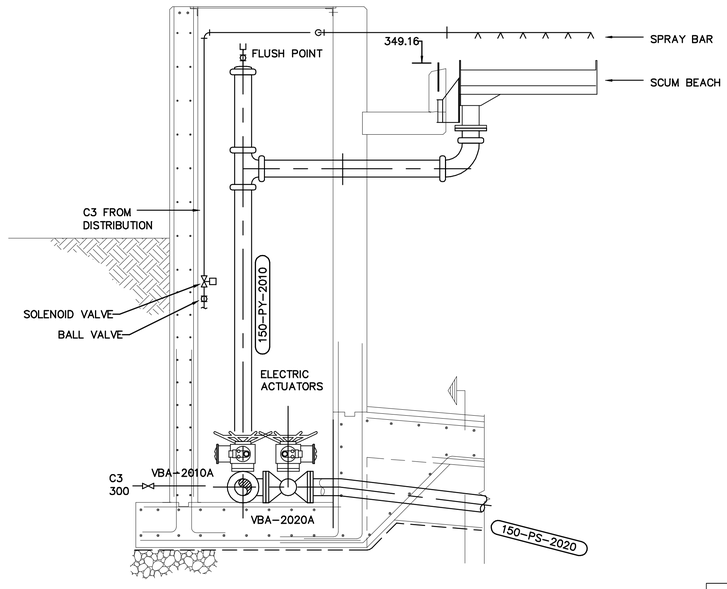
DESIGN COORD. | DESIGN ENG\TECH

SWWTP.A1 H:\PROJECTS\ENV\03984400\02A\123A\PROC\A\8442P02 Plotted 1998-07-16

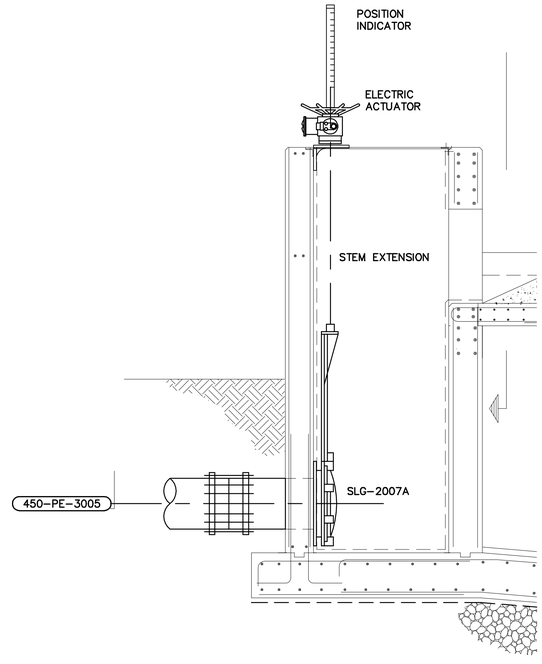
RECORD



1-2P02 SECTION
2P03 1:50



2-2P02 SECTION
2P03 1:50



3-2P02 SECTION
2P03 1:50

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2	13FEB97	KJW	ISSUED FOR CONSTRUCTION	CGL					
1	JULY 96	KJW	ISSUED FOR GMP TENDER	CGL					

Design CGL/KJW
Drawn KJW
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 2 – PRIMARY CLARIFIER
SECTIONS AND DETAILS

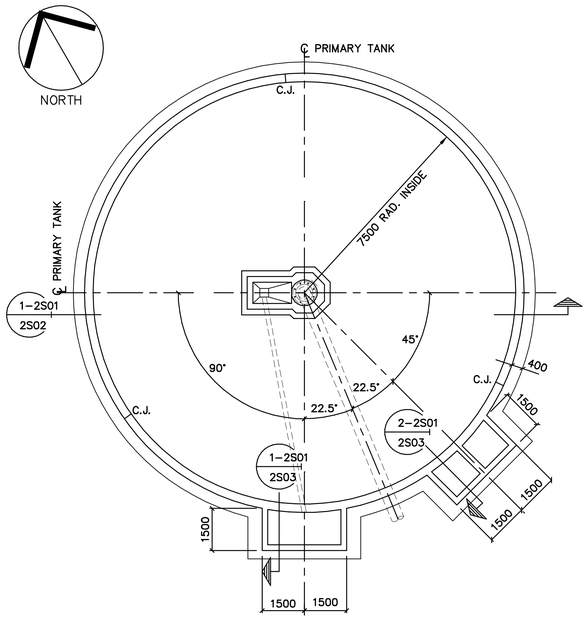
Reid Crowther 39844

Scale AS NOTED
Date JUNE 1996
City File
Sheet of
Drawing 2P03

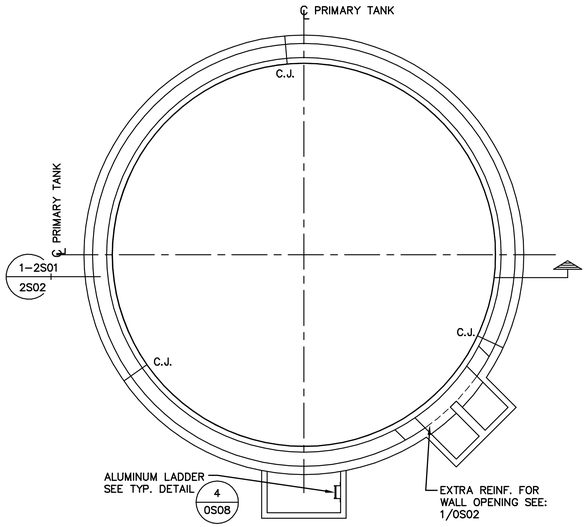
SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 4

DESIGN COORD. | DESIGN ENG\TECH
SWTP1A1 H:\PROJECTS\ENV\03984400\02A\123A\PROC\A\84429P03 Plotted 1998-07-16

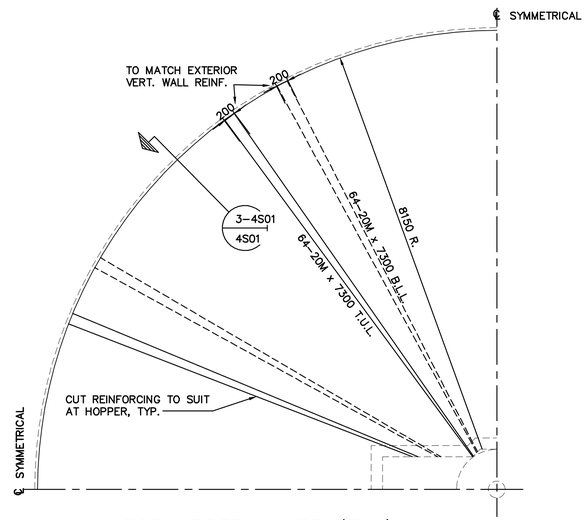
RECORD



FOUNDATION PLAN
1:100

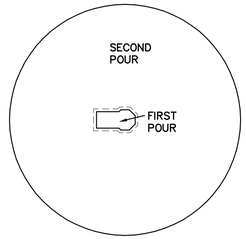


TOP PLAN
1:100

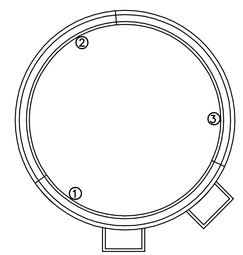


TOP UPPER LAYER (TUL)
AND
BOT. LOWER LAYER (BLL)

1–4S01 / 4S01 BASE SLAB RADIAL REINFORCING
1:50



BASE SLAB POUR SEQUENCE
N.T.S.



WALL AND LAUNDER POUR SEQUENCE
N.T.S.

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RECORD

DESIGN COORD. | DESIGN ENG'TECH

SWWTP A1

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5	FEB. 98	BWP	RECORD DRAWING	GDH					
4	5FEB 97	BWP	APPROVED FOR CONSTRUCTION, C.O. 2	GDH					
3	4FEB 97	BWP	ISSUED FOR BUILDING PERMIT.	GDH					
2	DEC. 96	BWP	ISSUED FOR CONSTRUCTION	GDH					
1	JULY 96	BWP	ISSUED FOR G.M.P. TENDER	GDH					

Design GDH
Drawn BWP
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 2
FERMENTER / PRIMARY CLARIFIER
FOUNDATION / TOP PLAN AND DETAILS

Reid Crowther
39844

Scale AS NOTED
Date JUNE 1996
City File
Sheet 1 of 3
Drawing 2S01

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO →
5

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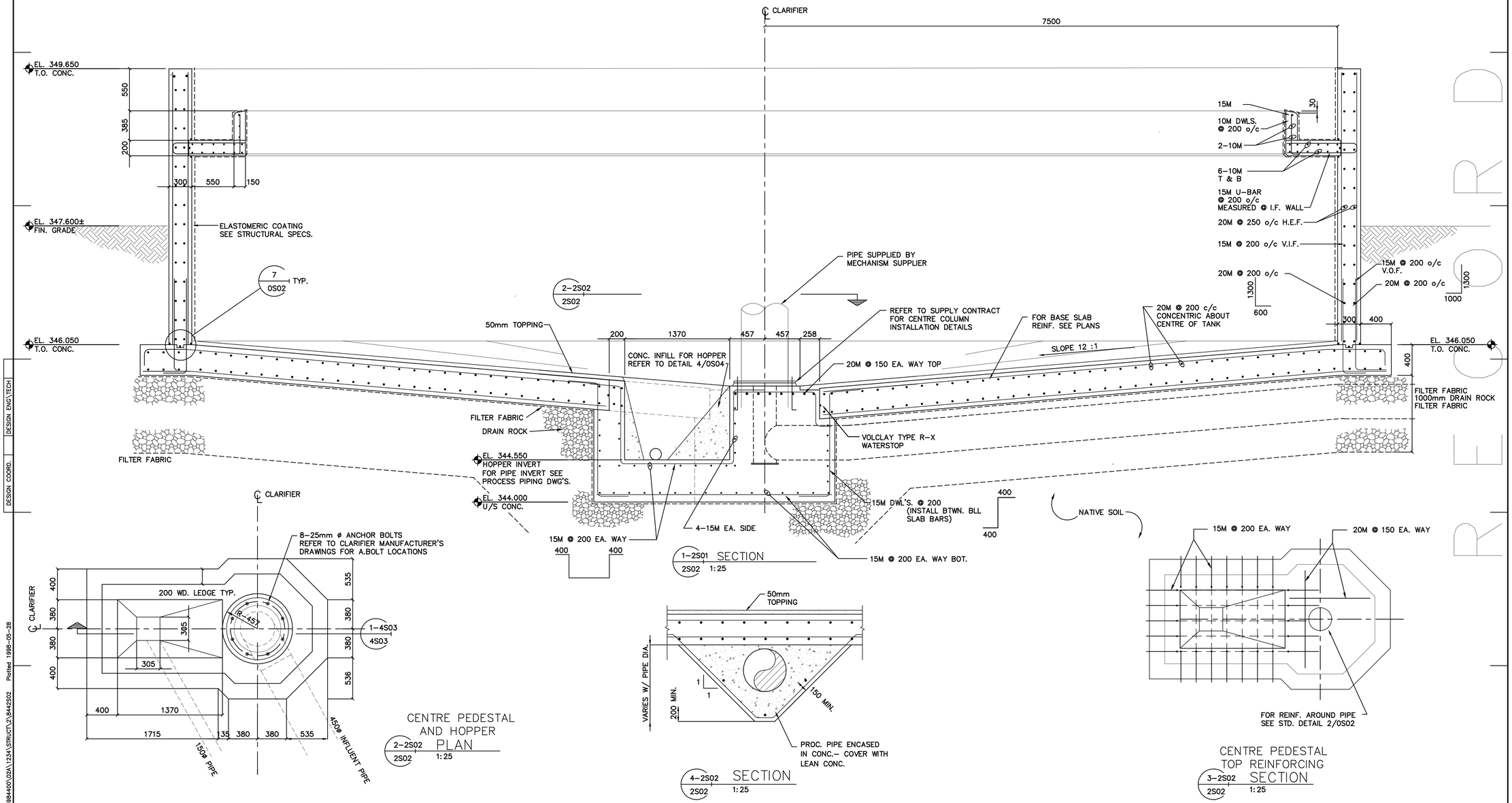

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2	DEC. 96	BWP	ISSUED FOR CONSTRUCTION	GDH					
1	JULY 96	BWP	ISSUED FOR G.M.P. TENDER	GDH					

Design	GDH
Drawn	JLJ
Checked	
Submitted	
Approved	

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT

AREA 2

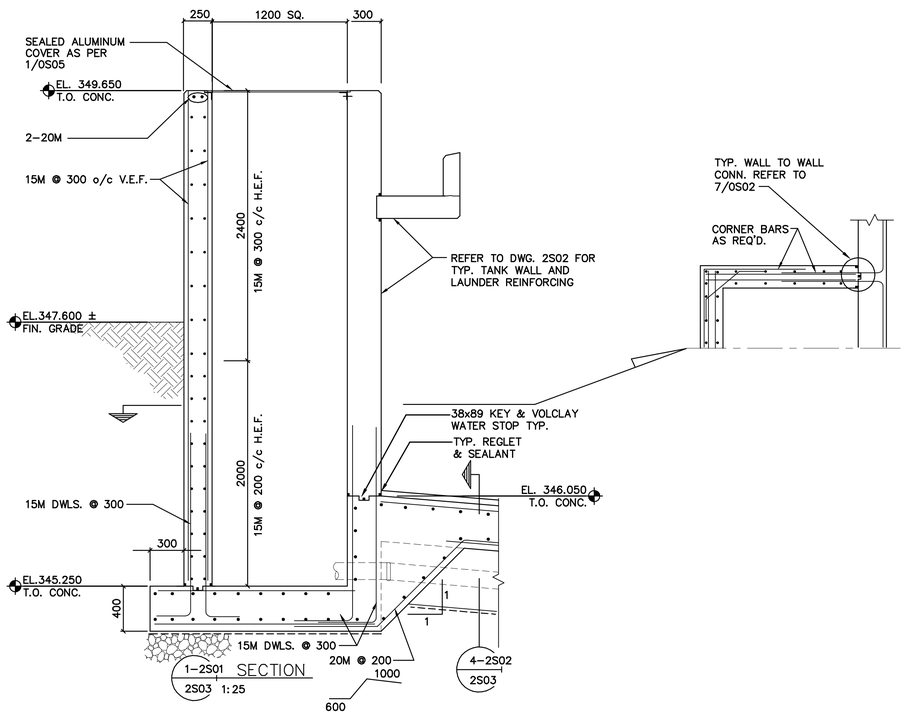
FERMENTER / PRIMARY CLARIFIER
SECTIONS AND DETAILS

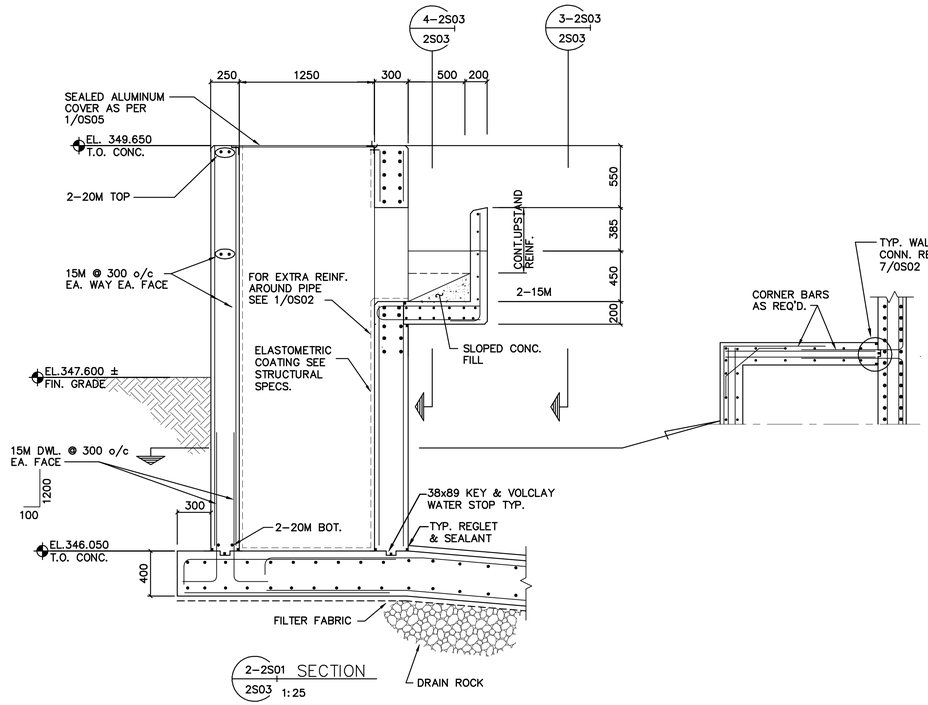
Reid Crowther
39844

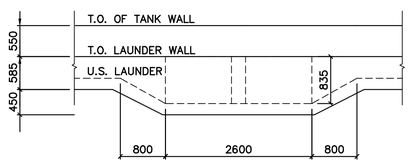
Scale	AS NOTED
Date	JUNE 1996
City File	
Sheet	2 of 3
Drawing	2S02

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 5

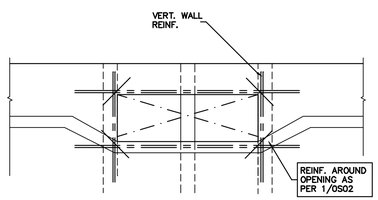
DESIGN ENG\TECH | DESIGN COORD. | Plotted: 1998-05-28 | SIWTP1A1 H:\PROJECTS\ENV\03894400\02A\1234\STRUCT\2\8442S02



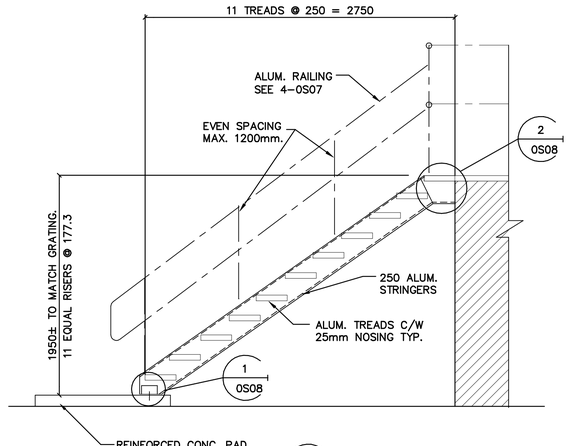




3-2S03 SECTION
2S03 1:50



4-2S03 SECTION
2S03 1:50



5-2S01 SECTION
2S03 1:25

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2	DEC. 96	BWP	ISSUED FOR CONSTRUCTION	GDH					
1	JULY 96	BWP	ISSUED FOR G.M.P. TENDER	GDH					

Design GDH
Drawn JLJ
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 2
FERMENTER / PRIMARY CLARIFIER
SECTIONS AND DETAILS

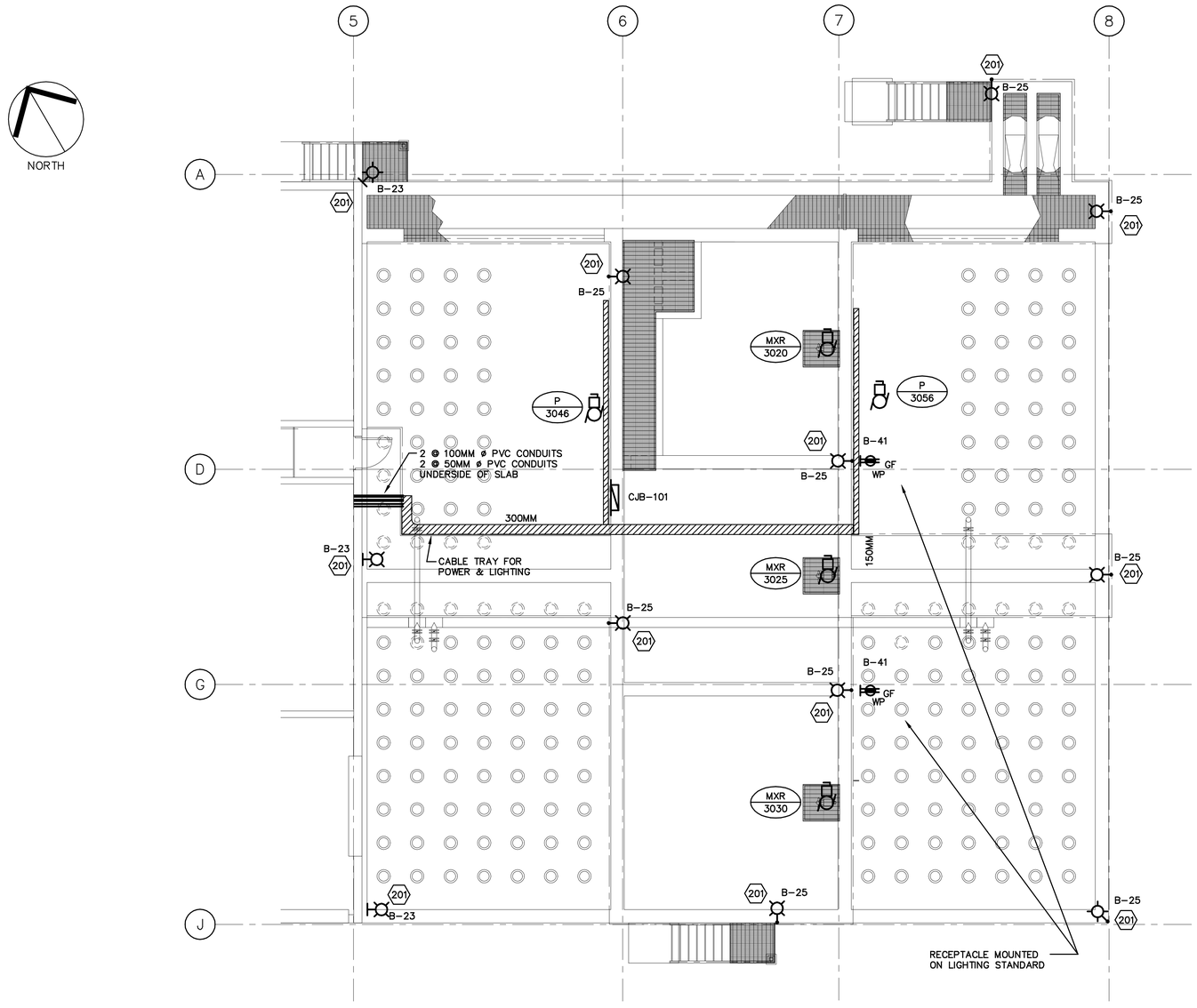
Reid Crowther 39844

Scale AS NOTED
Date JUNE 1996
City File
Sheet 3 of 3
Drawing 2S03

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 5

DESIGN ENG\TECH | DESIGN COORD. | Plotted 1998-05-28 | SWWTP1A1 H:\PROJECTS\ENV\03894400\02A\123A\STRUCT\2\8442503

RECORD



1 / 3E01 BIOREACTOR – POWER & LIGHTING
SCALE 1:75

NOTES:
1. MOUNT CABLE TRAYS ALONG SIDE OF WALKWAYS AND/OR CONCRETE SLABS.
2. MOUNT LIGHTING FIXTURES ON 3M HIGH ALUMINUM LIGHTING STANDARDS.

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4	26JUN98	KM	RECORD DRAWING	KJW					
3	38MAY97	KM	APPROVED FOR CONSTRUCTION, CO 4	KHM					
2	09APR97	KM	ISSUED FOR CONSTRUCTION (DUCT SCHEDULE)	KHM					
1	JULY 96	KM	ISSUED FOR GMP TENDER	KHM					

Design KM
Drawn KM
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 3 – BIOREACTOR
POWER & LIGHTING

Reid Crowther 39844

Scale AS SHOWN
Date JULY 1996
City File
Sheet of
Drawing 3E01

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 4

DESIGN COORD.
DESIGN ENG\TECH
Plotted 1998-07-17
H:\PROJECTS\ENV\0389440\02A\123A\ELEC\3443201
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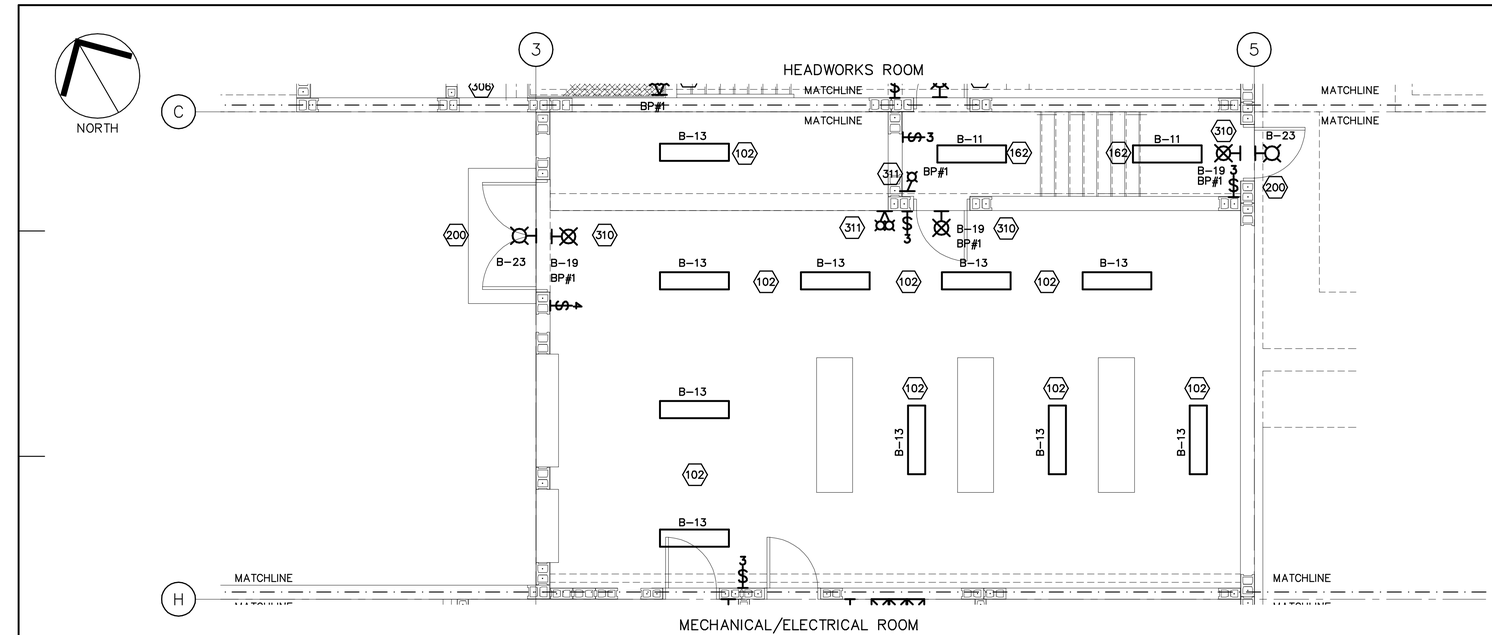

1 3E02 BLOWER ROOM – LIGHTING
SCALE 1:100

2 3E02 BLOWER ROOM – POWER
SCALE 1:100

NOTES:
1. ALL POWER AND CONTROL WIRING IN THE BLOWER AREA IS TO BE ROUTED TO ELECTRICAL ROOM IN THE PROCES BUILDING VIA CABLE TRAYS. ALL WIRING TO BE IN TECK CABLE.
2. PROVIDE APPROVED SEALS ON ALL CONDUITS AND CABLE TRAYS PENETRATING WALLS AND/OR FLOORS OF THE PROCESS BUILDING.

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1	JULY 96	KM	ISSUED FOR GMP TENDER	KHM					

Design	KM
Drawn	KM
Checked	
Submitted	
Approved	

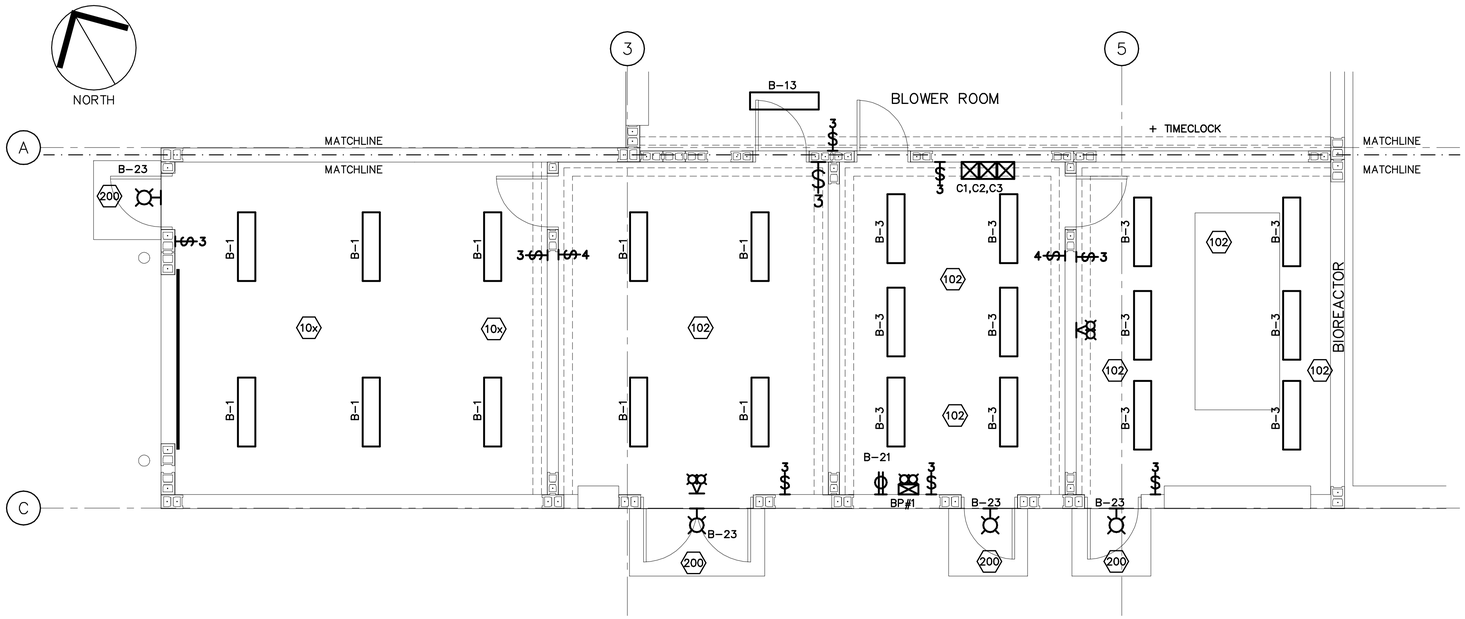
THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 3 – BIOREACTOR
BLOWER AREA
POWER & LIGHTING

Reid Crowther 39844

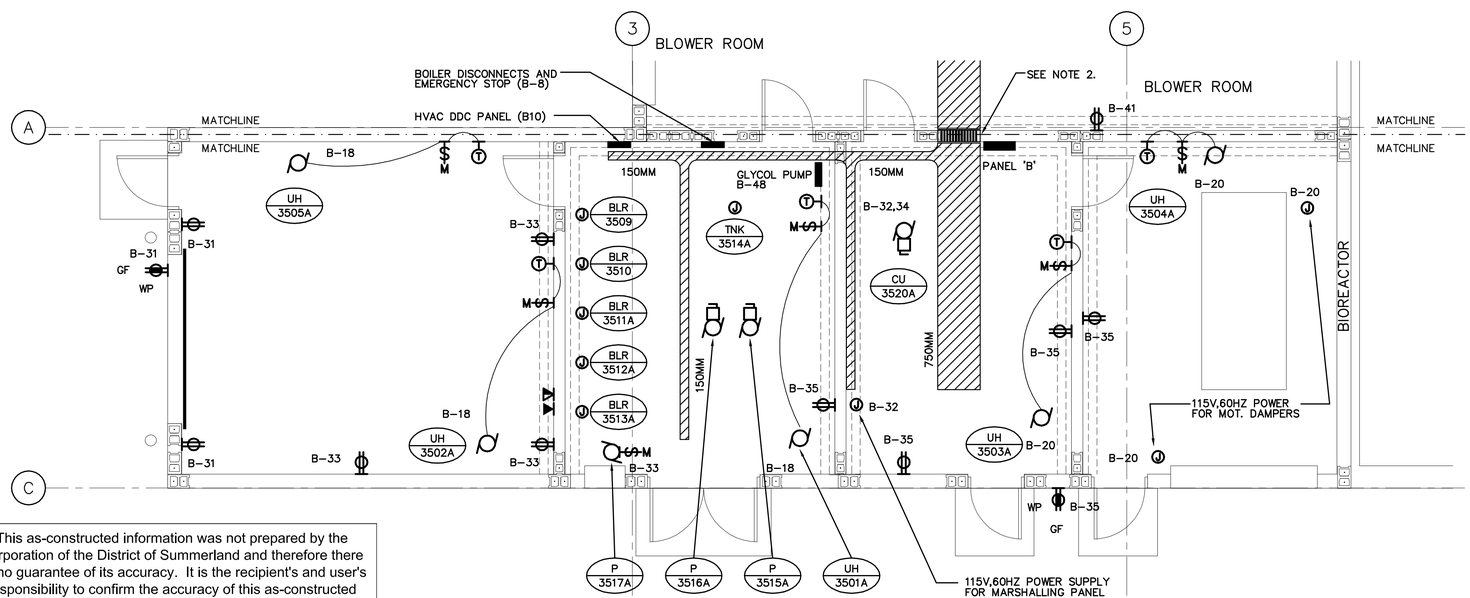
Scale	AS SHOWN
Date	JULY 1996
City File	
Sheet	of
Drawing	3E02

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 4

DESIGN ENG\TECH | DESIGN COORD. | H:\PROJECTS\DWG\30884400\02A\12SX\ELEC\8443E02 Plotted: 1998-07-17 | SWWTP A1



1 / 3E03 MAINTENANCE AREA – LIGHTING
SCALE 1:100



2 / 3E03 MAINTENANCE AREA – POWER & COMM.
SCALE 1:100

NOTES:
1. ALL WIRING TO BE IN TECK CABLE.
2. PROVIDE APPROVED SEALS ON ALL CONDUITS AND/OR CABLE TRAYS PENETRATING WALLS OF THE MAINTENANCE AREA.

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1	JULY 96	KM	ISSUED FOR GMP TENDER	KHM					

Design KM
Drawn KM
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 3 – BIOREACTOR
Reid Crowther 39844

MAINTENANCE AREA
POWER & LIGHTING

Scale AS SHOWN
Date JULY 1996
City File
Sheet of
Drawing 3E03

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 4

DESIGN ENG\TECH
DESIGN COORD.
Plotted 1998-06-26
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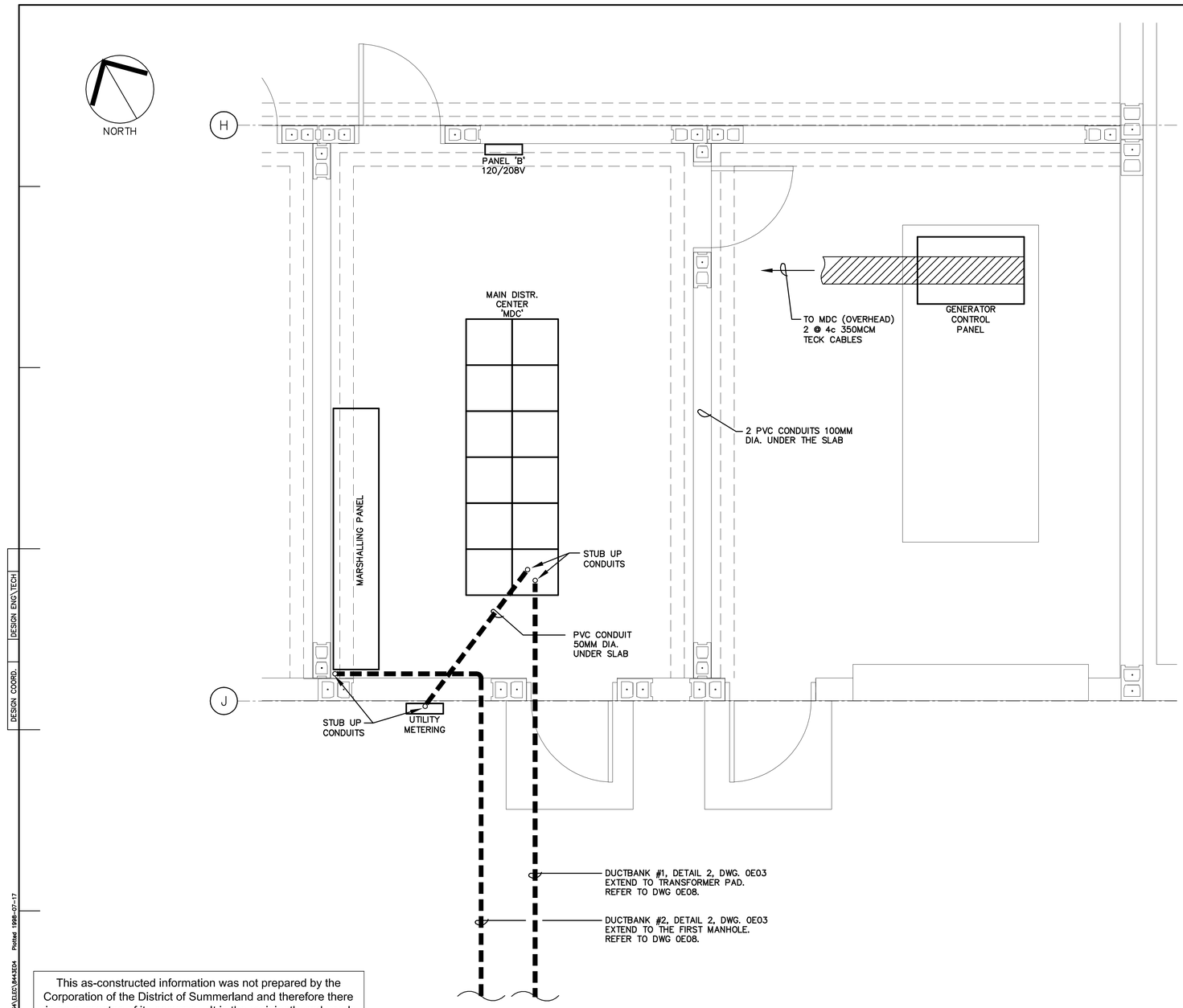
SWWTPA1

RECORD



1 / 3E04 ELECTRICAL EQUIPMENT LAYOUT
SCALE 1:50

RECORD

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Design KM
Drawn KM
Checked
Submitted
Approved

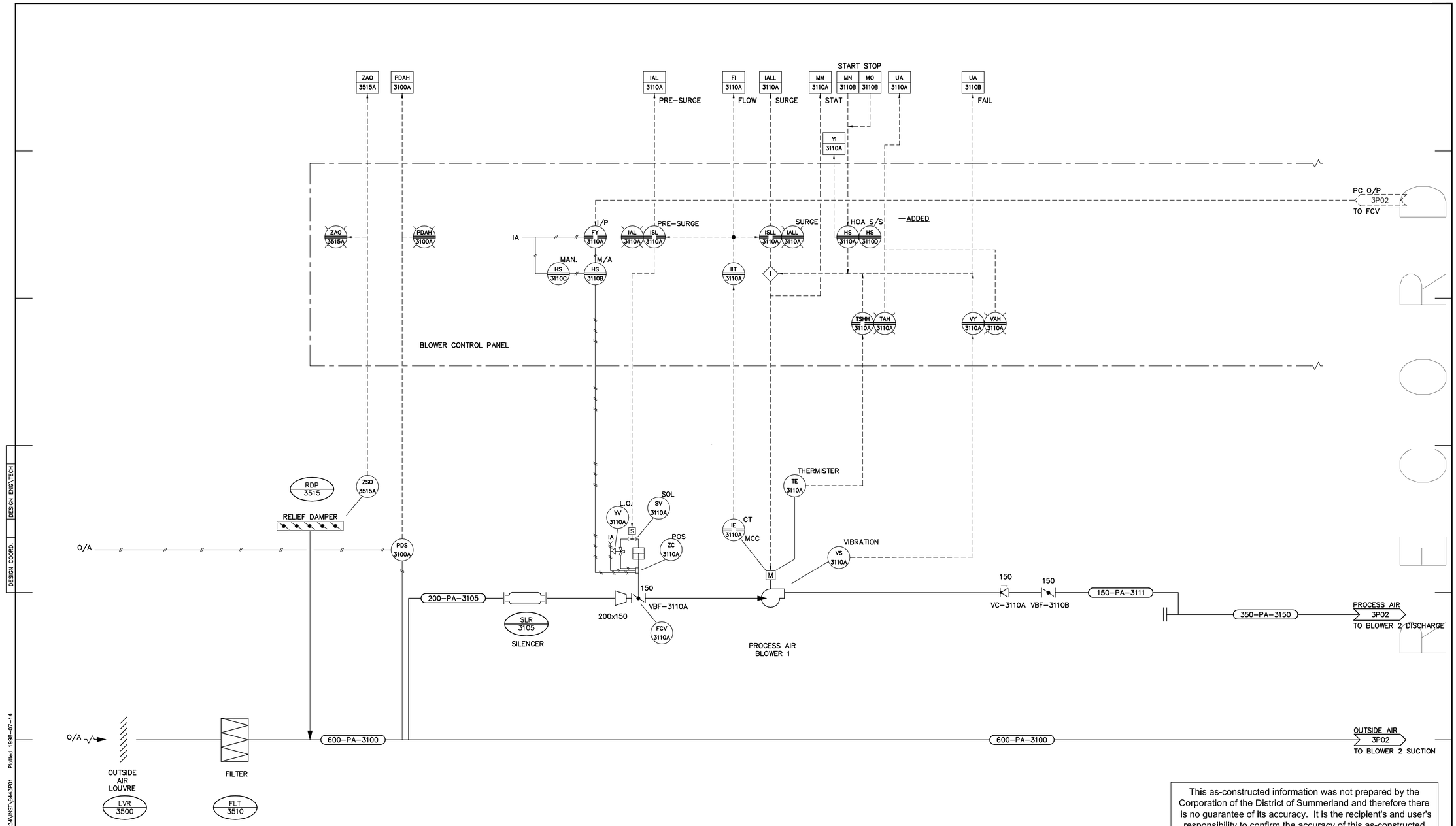
THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 3 – BIOREACTOR
ELECTRICAL ROOM
DETAILS

Reid Crowther
39844

Scale AS SHOWN
Date JULY 1996
City File
Sheet of
Drawing 3E04

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 4

DESIGN COORD. | DESIGN ENG\TECH
SWWTP A1 H:\PROJECTS\EMV\03984400\02A\123A\ELEC\3E443E04 Plotted 1998-07-17



DESIGN COORD. | DESIGN ENG\TECH

SWWTP A1 H:\PROJECTS\ENV.03984400\02A\123A\MST\8443P01 Plotted 1998-07-14

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
5	19 MAY 98	GDB	RECORD DRAWING	KJW					
4	28MAY97	KJW	APPROVED FOR CONSTRUCTION, C.O. 4	CGL					
3	28FEB97	KJW	ISSUED FOR CONSTRUCTION – REVISED	CGL					
2	8JAN97	KJW	WORK IN PROGRESS V.1 (PIPE SIZES)	CGL					
1	JULY 96	KJW	ISSUED FOR GMP TENDER	BLC					

Design	CGL/BLC
Drawn	GDS/KJW
Checked	
Submitted	
Approved	

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT

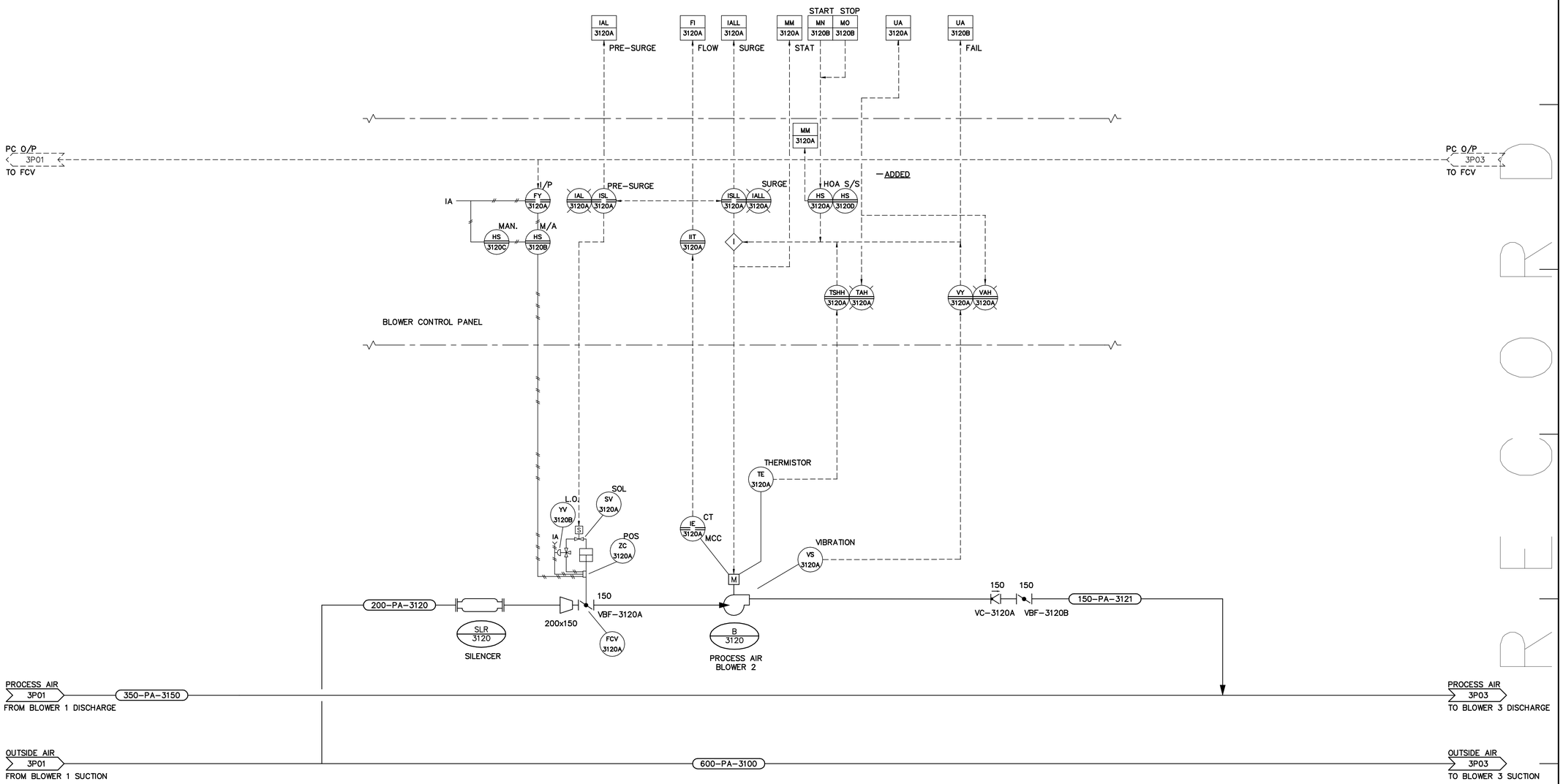
Reid Crowther 39844

AREA 3 – BIOREACTOR

PROCESS AIR BLOWER 1
PIPING AND INSTRUMENTATION DIAGRAM

Scale	AS NOTED
Date	MAY 1996
City File	
Sheet	of
Drawing	3P01

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 5



DESIGN COORD. | DESIGN ENG\TECH

SWWTP1 H:\PROJECTS\ENV\03984400\02A\1234\INST\8443P02 Plotted 1998-07-14

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5	19 MAY 98	GDB	RECORD DRAWING	KJW					
4	28MAY97	KJW	APPROVED FOR CONSTRUCTION, C.O. 4	CGL					
3	28FEB97	KJW	ISSUED FOR CONSTRUCTION – REVISED	CGL					
2	8JAN97	KJW	WORK IN PROGRESS V.1 (PIPE SIZES)	CGL					
1	JULY 96	KJW	ISSUED FOR GMP TENDER	BLC					

Design	CGL/BLC
Drawn	GDS
Checked	
Submitted	
Approved	

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT

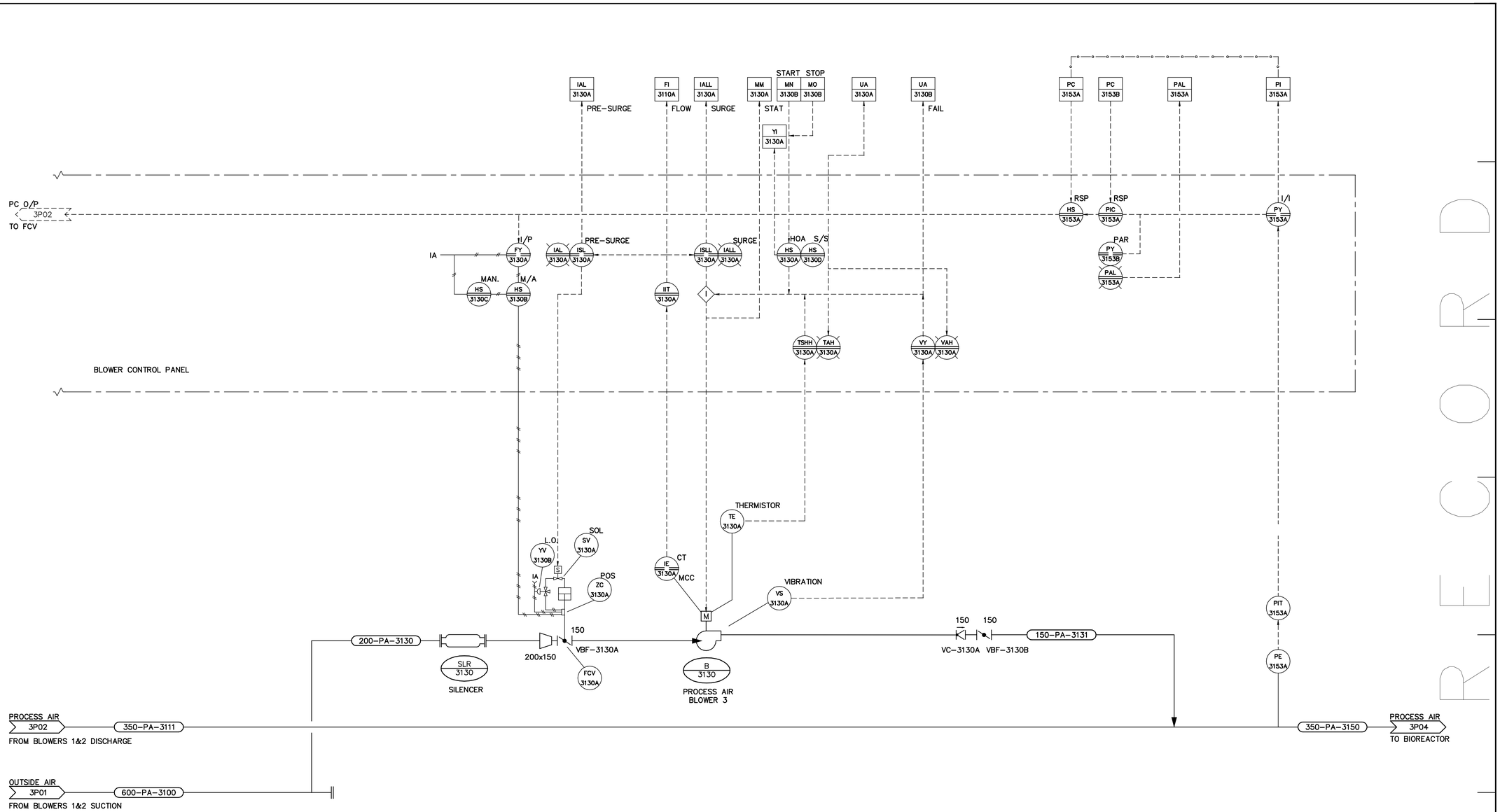
Reid Crowther 39844

AREA 3 – BIOREACTOR

PROCESS AIR BLOWER 2
PIPING AND INSTRUMENTATION DIAGRAM

Scale	AS NOTED
Date	MAY 1996
City File	
Sheet	of
Drawing	3P02

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 5



RECORD

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
4	19 MAY 98	GDB	RECORD DRAWING	KJW					
3	28FEB97	KJW	ISSUED FOR CONSTRUCTION – REVISED	CGL					
2	8JAN97	KJW	WORK IN PROGRESS V.1 (PIPE SIZES)	CGL					
1	JULY 96	KJW	ISSUED FOR GMP TENDER	BLC					

Design CGL/BLC
Drawn GDS/KJW
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 3 – BIOREACTOR
Reid Crowther 39844

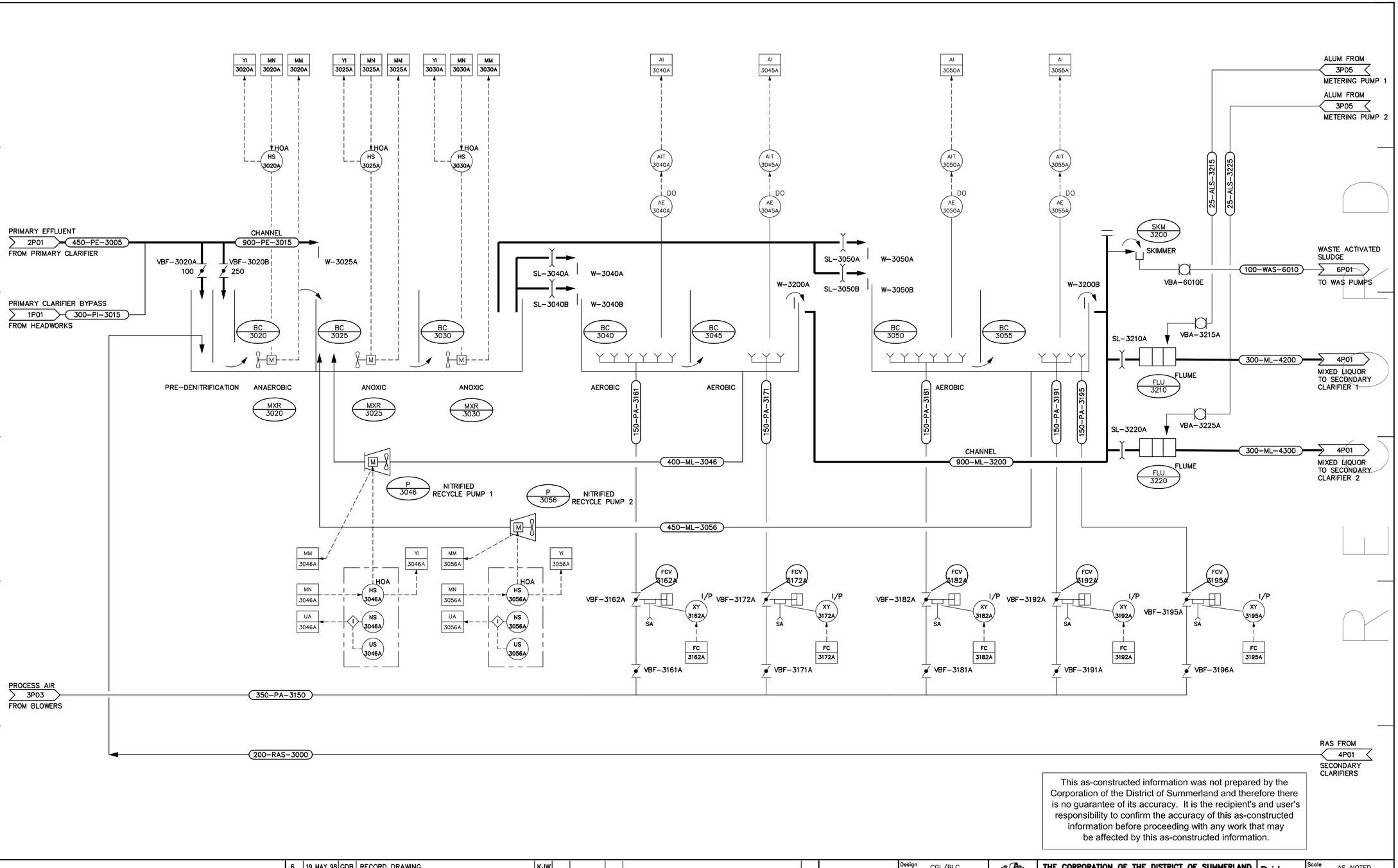
PROCESS AIR BLOWER 3
PIPING AND INSTRUMENTATION DIAGRAM

Scale AS NOTED
Date MAY 1996
City File
Sheet of
Drawing 3P03

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 4

DESIGN COORD. | DESIGN ENG\TECH

SWWTP1 H:\PROJECTS\ENV\03984400\02A\1234\INST\9443P03 Plotted 1998-07-14



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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
6	19 MAY 98	GDB	RECORD DRAWING	KJW					
5	28MAY97	KJW	APPROVED FOR CONSTRUCTION, C.O. 4	CGL					
4	28FEB97	KJW	ISSUED FOR CONSTRUCTION	CGL					
3	8JAN97	KJW	WORK IN PROGRESS V.2 (VALVES & PIPES)	CGL					
2	30NOV96	KJW	WORK IN PROGRESS V.1 (VBF VALVES, ML PIPE)	CGL					
1	JULY 96	KJW	ISSUED FOR GMP TENDER	BLC					

Design CGL/BLC
Drawn GDS/KJW
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT

AREA 3 – BIOREACTOR

BIOREACTOR
PIPING AND INSTRUMENTATION DIAGRAM

Reid Crowther 39844

Scale AS NOTED
Date MAY 1996
City File
Sheet of
Drawing 3P04

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 6

DESIGN ENG\TECH
DESIGN COORD.
Plotted 1998-07-14
H:\PROJECTS\ENV\03884400\02A\123A\WST\844P04
SWWTPA1

ALUM TO
3P04
TO BIOREACTOR/SECONDARY CLARIFIERS

25-ALS-3215

ALUM TO
3P04
TO BIOREACTOR/SECONDARY CLARIFIERS

25-ALS-3225

T
3213
TANK 1
ALUM STORAGE

TANK CROSS CONNECTION

T
3223
TANK 2
ALUM STORAGE

100-ALS-3213

100-ALS-3223

19
VBA-3213C

19
VBA-3213B

19
VBA-3223C

19
VBA-3223B

40
VBA-3213A

40
VBA-3223A

ALUM

VC-3212A

40-ALS-3212

19-ALS-3224

M

VBA-3225A
15

15 VBA-3225B

VC-3225A

15

P
3225
ALUM METERING PUMP 2

19-ALS-3214

M

VBA-3215A
15

15 VBA-3215B

VC-3215A

15

P
3215
ALUM METERING PUMP 1

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
5	19 MAY 98	GDB	RECORD DRAWING	KJW					
4	28MAY97	KJW	APPROVED FOR CONSTRUCTION, C.O. 4	CGL					
3	28FEB97	KJW	ISSUED FOR CONSTRUCTION	CGL					
2	8JAN97	KJW	WORK IN PROGRESS V.1 (NO CHANGE)	KAC					
1	JULY 96	KJW	ISSUED FOR GMP TENDER	CGL					

Design CGL
Drawn GDS/KJW
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 3 – BIOREACTOR
ALUM SYSTEM
PIPING AND INSTRUMENTATION DIAGRAM

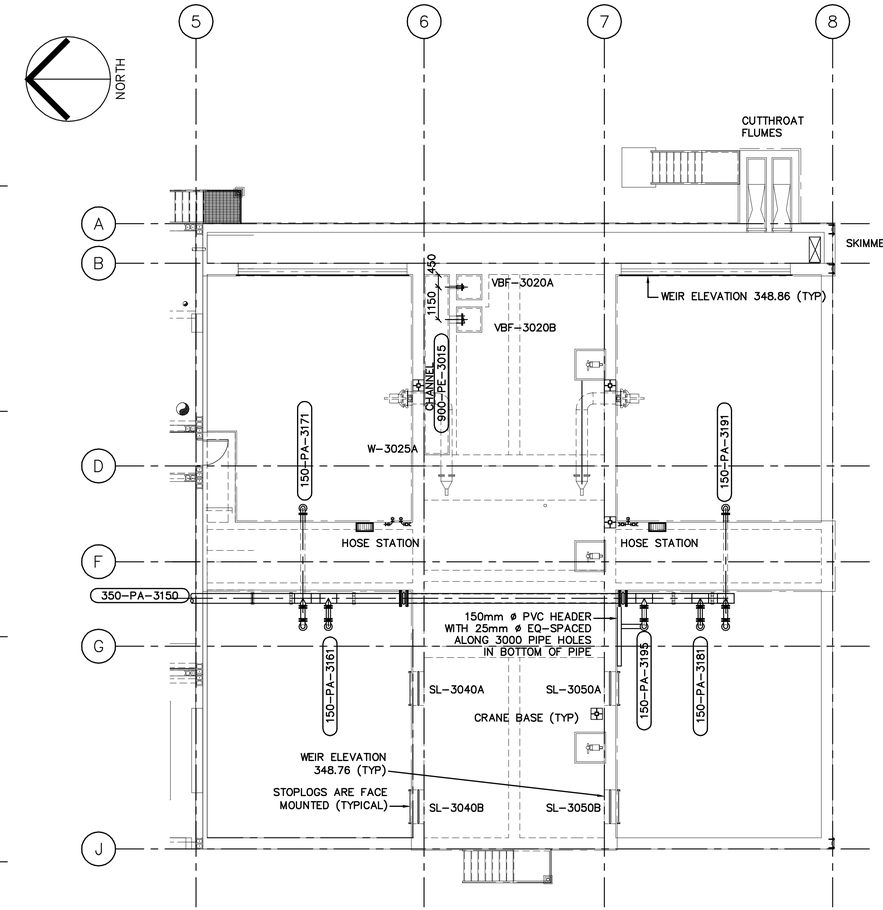
Reid Crowther
39844

Scale AS NOTED
Date MAY 1996
City File
Sheet of
Drawing 3P05

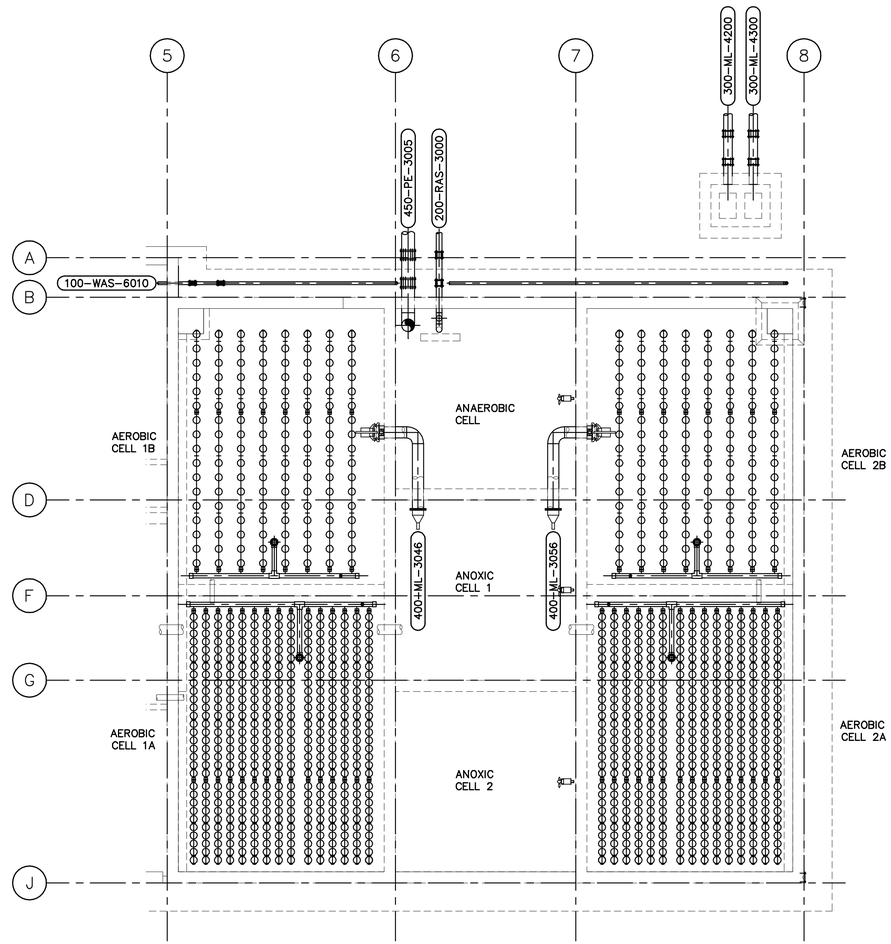
SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 5

DESIGN ENG\TECH
DESIGN COORD.
SWWTPA1 H:\PROJECTS\ENV\03984400\02A\23A\INST\3P05 Plotted 1998-07-14

RECORD



UPPER PLATFORM PLAN
1:100



TANK BOTTOM PLAN
1:100

RECORD

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6	19 MAY 98	GDC	RECORD DRAWING	KJW					
5	28MAY97	KJW	APPROVED FOR CONSTRUCTION, C.O. 4	CGL					
4	27FEB97	KJW	ISSUED FOR CONSTRUCTION	CGL					
3	8JAN97	KJW	WORK IN PROGRESS V.2 (ML PIPE SIZES)	CGL					
2	30NOV96	KJW	WORK IN PROGRESS V.1 (VBF VALVES, ML SIZE)	CGL					
1	JULY 96	KJW	ISSUED FOR GMP TENDER	CGL					

Design	CGL/KJW
Drawn	KJW
Checked	
Submitted	
Approved	

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT

AREA 3 – BIOREACTOR

FLOOR PLANS

Reid Crowther
39844

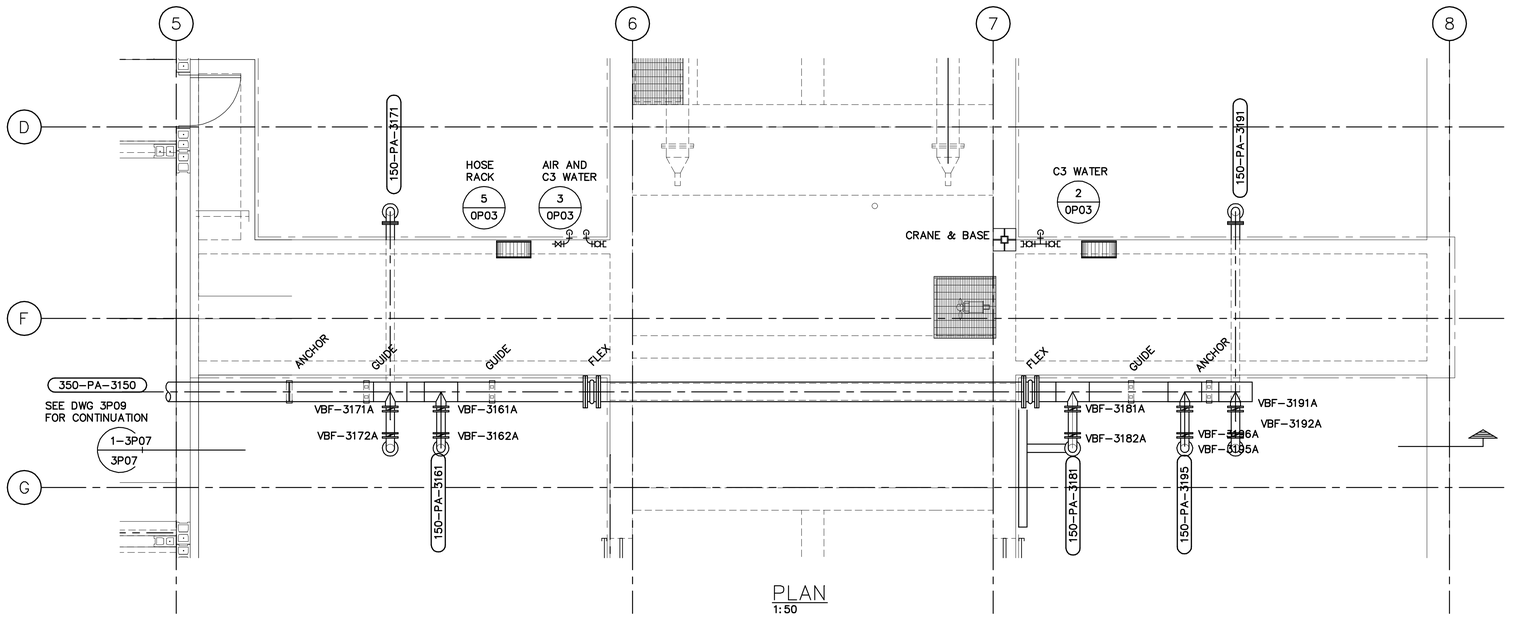
Scale	AS NOTED
Date	JUNE 1996
City File	
Sheet	of
Drawing	3P06

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 6

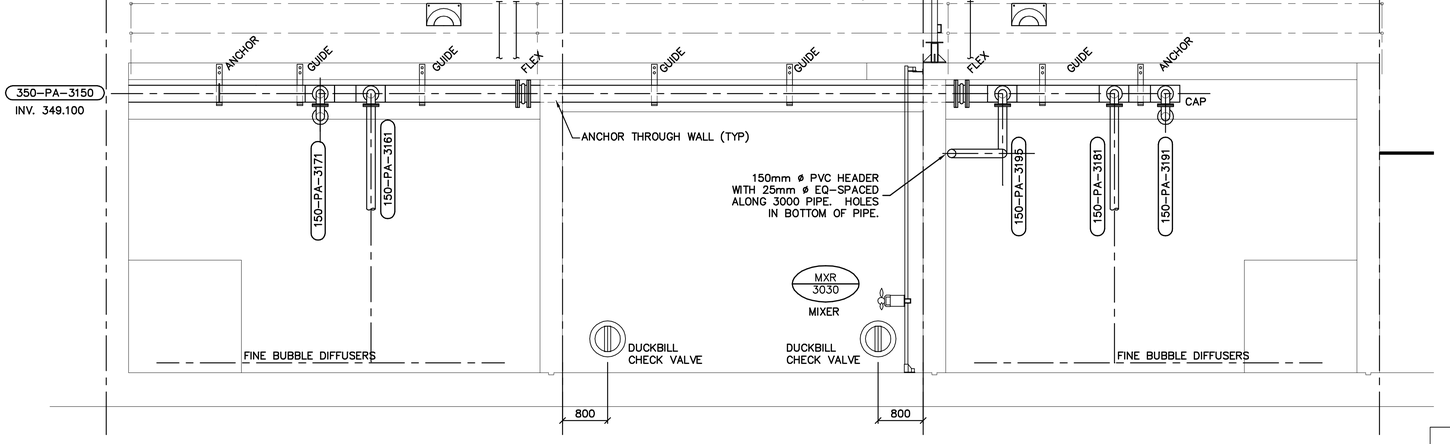
DESIGN ENG\TECH | DESIGN COORD. | DRAWN | CHECKED | SUBMITTED | APPROVED

H:\PROJECTS\DWG\3039\4400\GEA\123A\PROC\3P06.DWG Plotted: 1998-07-16

SWMTPA1



PLAN
1:50



1-3P07 / 3P07 SECTION
1:50

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4	28MAY97	KJW	APPROVED FOR CONSTRUCTION, C.O. 4	CGL					
3	27FEB97	KJW	ISSUED FOR CONSTRUCTION	CGL					
2	8JAN97	KJW	WORK IN PROGRESS V.1(PIPE SIZES)	CGL					
1	JULY 96	KJW	ISSUED FOR GMP TENDER	CGL					

Design CGL/KJW
Drawn KJW
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT

AREA 3 – BIOREACTOR

SECTIONS AND DETAILS

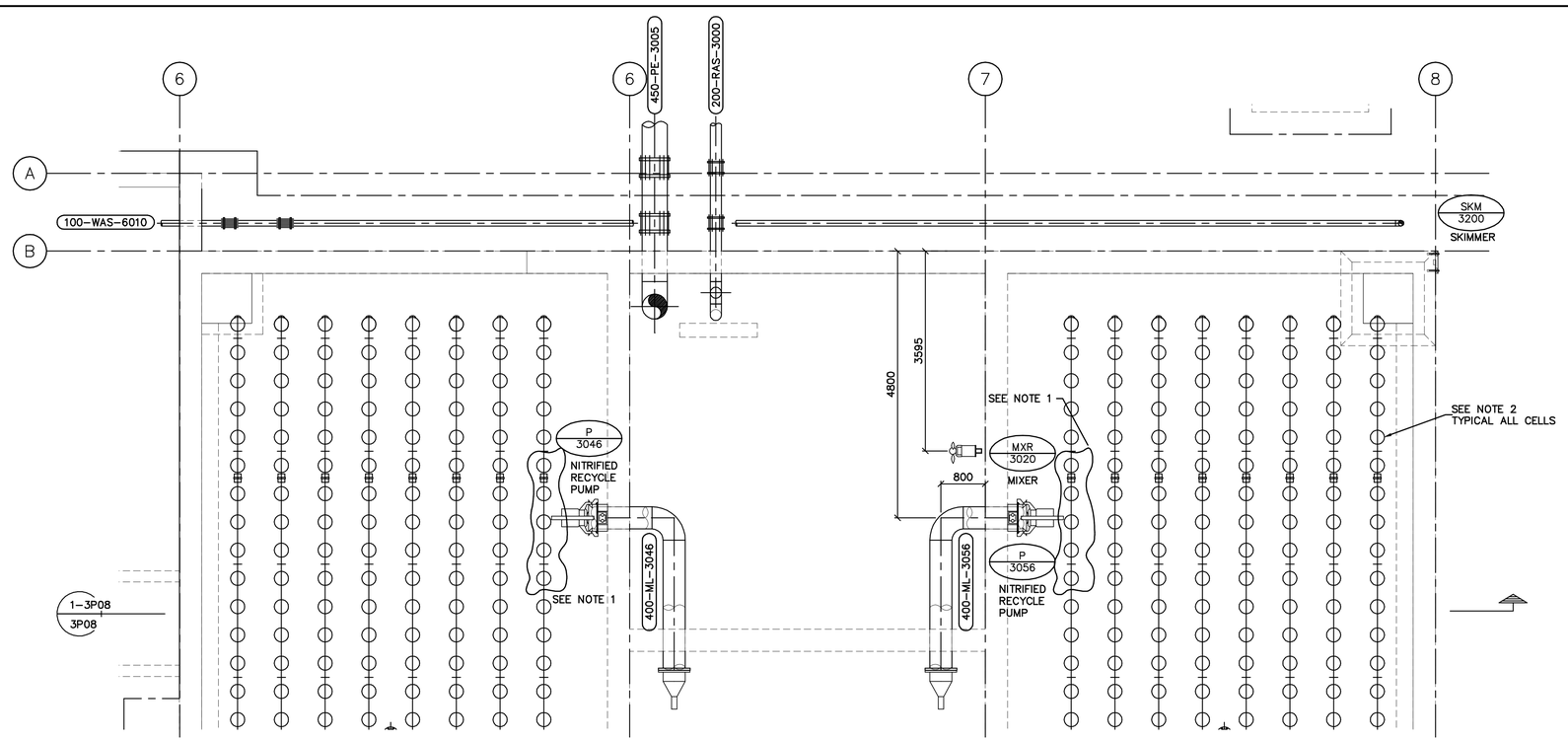
Reid Crowther 39844

Scale AS NOTED
Date JUNE 1996
City File
Sheet of
Drawing 3P07

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 5

DESIGN ENG\TECH
DESIGN COORD.
SWWTPA1 H:\PROJECTS\SW\3288440\00A\123A\PROC\3P07 Plotted: 1998-07-16

RECORD



PLAN
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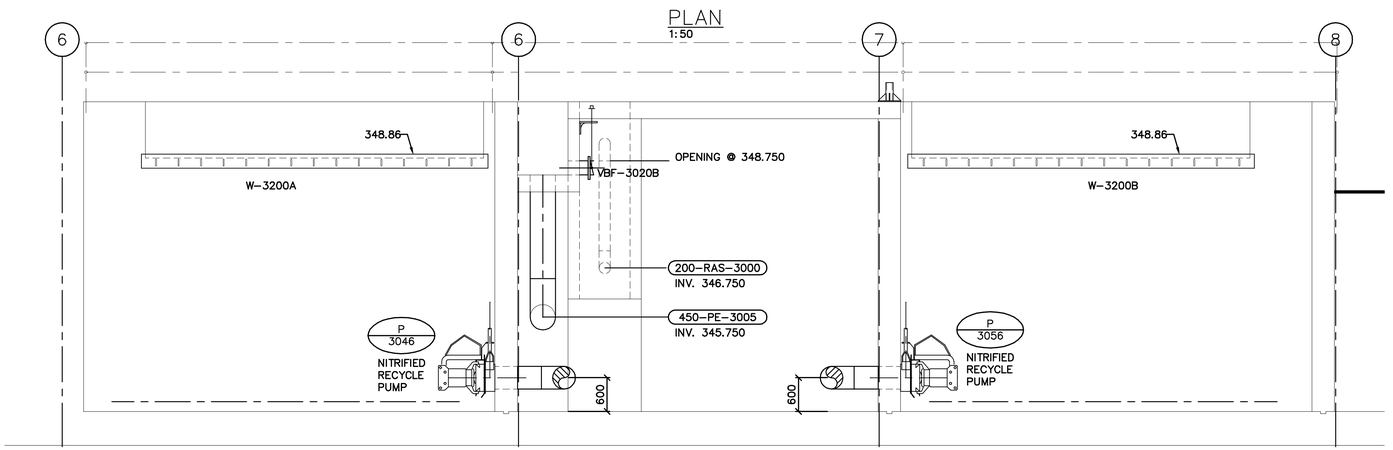
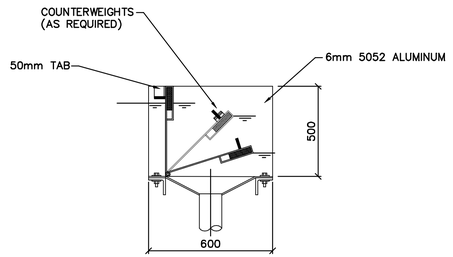


1-3P08 / 3P08 SECTION
1:50



SKIMMER DETAIL
NTS

NOTES:
1. PROVIDE ORIFICE PLUGS FOR DIFFUSERS INDICATED.
2. EVERY SECOND DIFFUSER PLUGGED.

RECORD

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5	20 MAY 98	GDB	RECORD DRAWING	KJW					
4	28MAY97	KJW	APPROVED FOR CONSTRUCTION, C.O. 4	CGL					
3	27FEB97	KJW	ISSUED FOR CONSTRUCTION	CGL					
2	8JAN97	KJW	WORK IN PROGRESS V.1 (ML PIPE SIZE)	CGL					
1	JULY 96	KJW	ISSUED FOR GMP TENDER	CGL					

Design CGL/KJW
Drawn KJW
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT

AREA 3 – BIOREACTOR

SECTIONS AND DETAILS

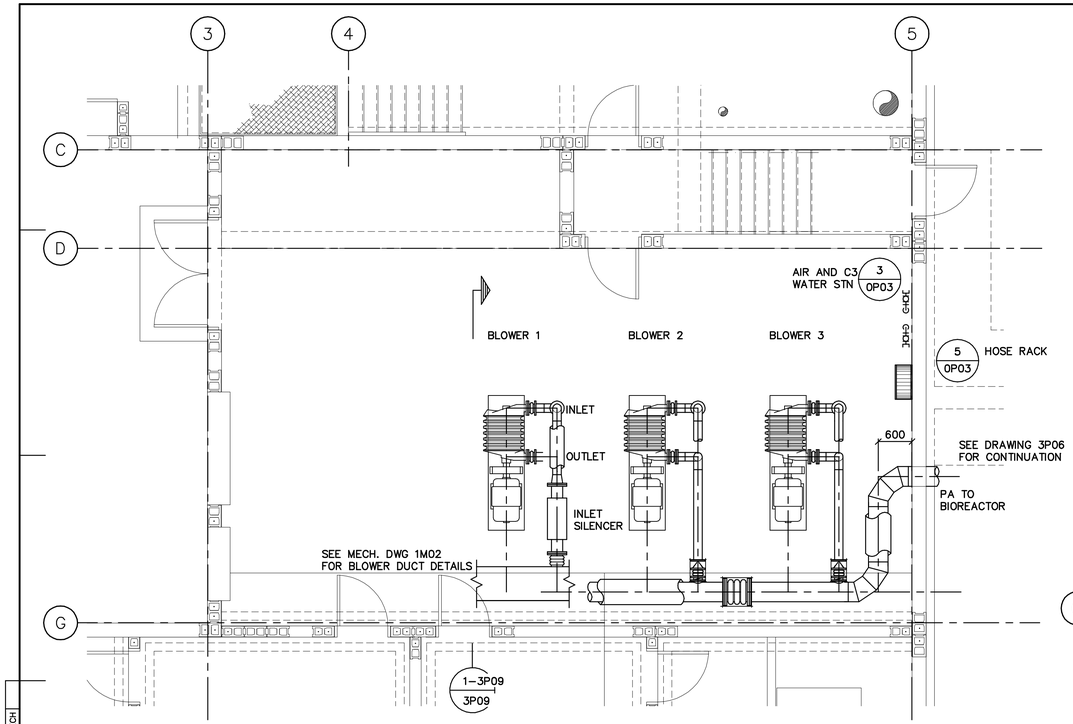
Reid Crowther 39844

Scale AS NOTED
Date JUNE 1996
City File
Sheet of
Drawing 3P08

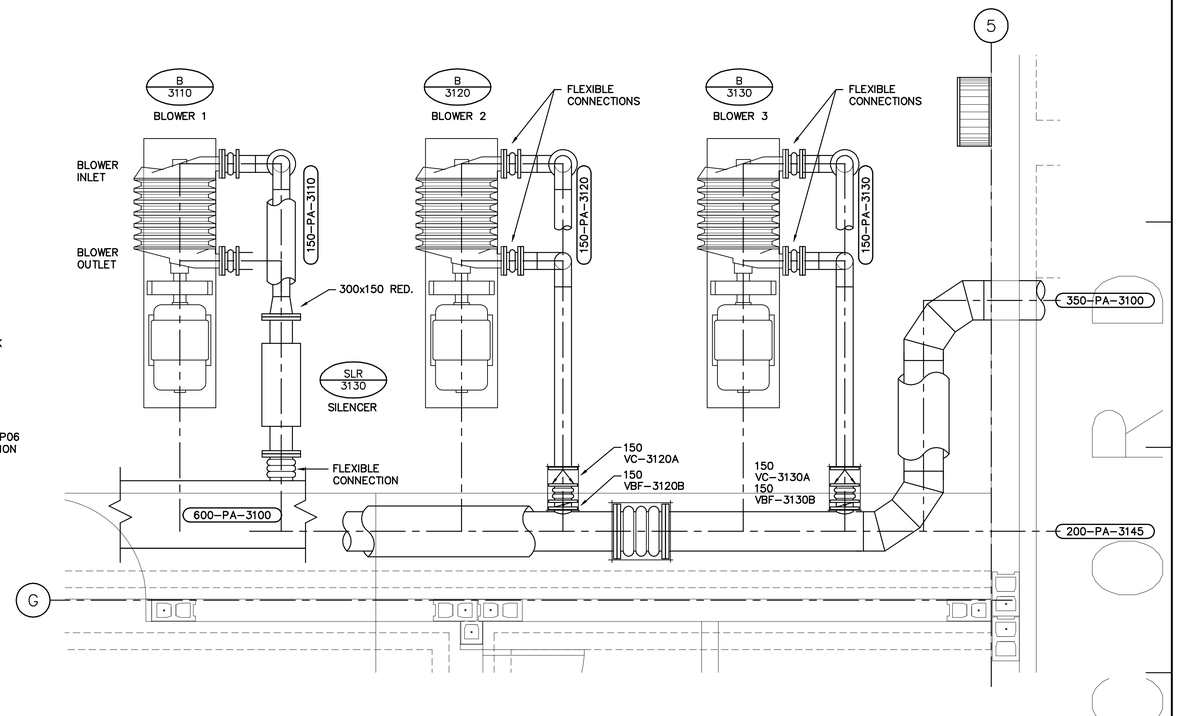
SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO →

5

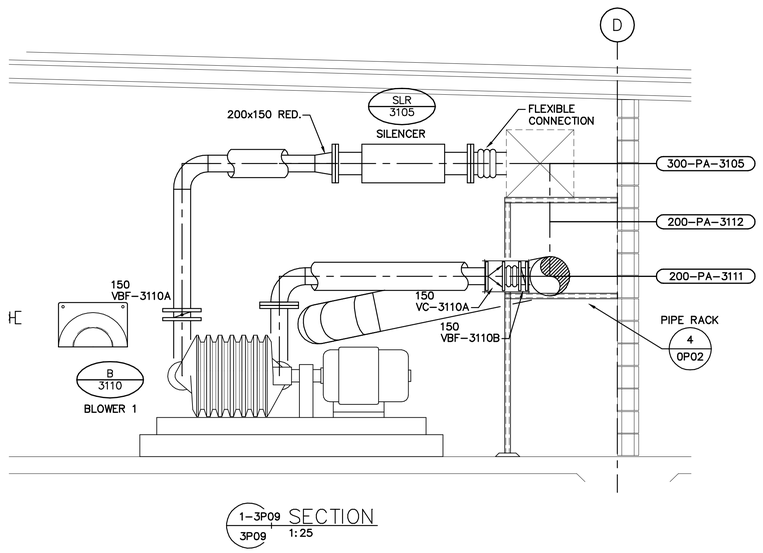
DESIGN ENG\TECH
DESIGN COORD.
SWWTPA1 H:\PROJECTS.DWG\0398-6400\DGN\1234\PROC\3-8442P08 Plotted: 1998-07-16



PLAN
1:50



BLOWER DETAILS
1:25



SECTION
1:25

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5	28MAY97	KJW	APPROVED FOR CONSTRUCTION, C.O. 4	CGL					
4	27FEB97	KJW	ISSUED FOR CONSTRUCTION	CGL					
3	09JAN97	KJW	WORK IN PROGRESS V.2 (PIPE SIZES)	CGL					
2	20NOV96	KJW	WORK IN PROGRESS V.1 (FLOOR DRAINS)	BWP					
1	JULY 96	KJW	ISSUED FOR GMP TENDER	CGL					

Design	CGL/KJW
Drawn	KJW
Checked	
Submitted	
Approved	

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 3 – BIOREACTOR
Reid Crowther 39844

BLOWER ROOM FLOOR PLAN
GENERAL ARRANGEMENT

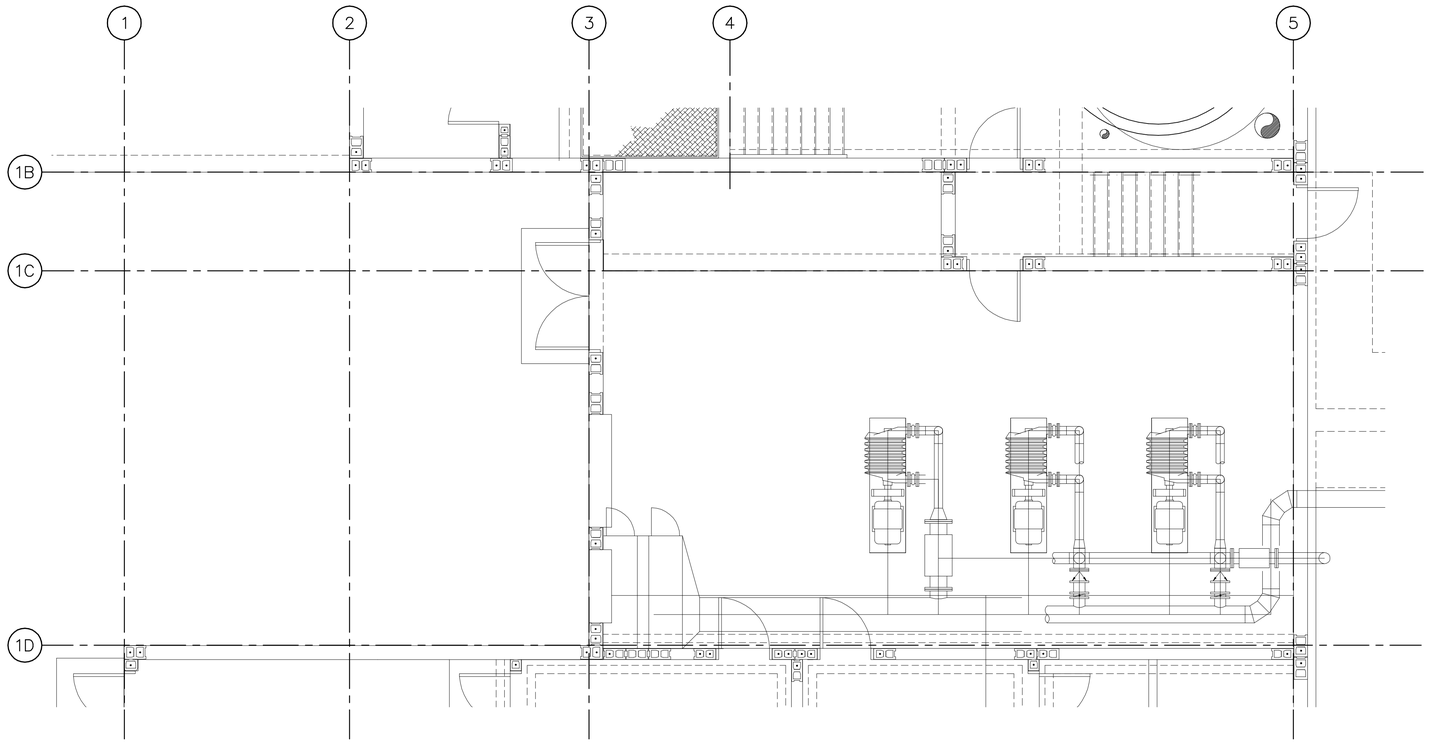
Scale	AS NOTED
Date	JUNE 1996
City File	
Sheet	of
Drawing	3P09

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 6

DESIGN COORD. | DESIGN ENG\TECH

SWWTP A1 H:\PROJECTS\DWG\0884405\02A\12A\PROC\0844P09 Plotted 1998-07-16

AS CONSTRUCTED
RECORD



PLAN
1:50

ISSUED FOR G.M.P.

Not For Construction

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd

Design	CGL/KJW
Drawn	KJW
Checked	
Submitted	
Approved	

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT

AREA 3 – BIOREACTOR

BLOWER ROOM
SECTIONS AND DETAILS

Reid Crowther
39844

Scale	AS NOTED
Date	JUNE 1996
City File	
Sheet	of
Drawing	3P10

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO →

DESIGN ENG\TECH
DESIGN COORD.
SWWTP A1
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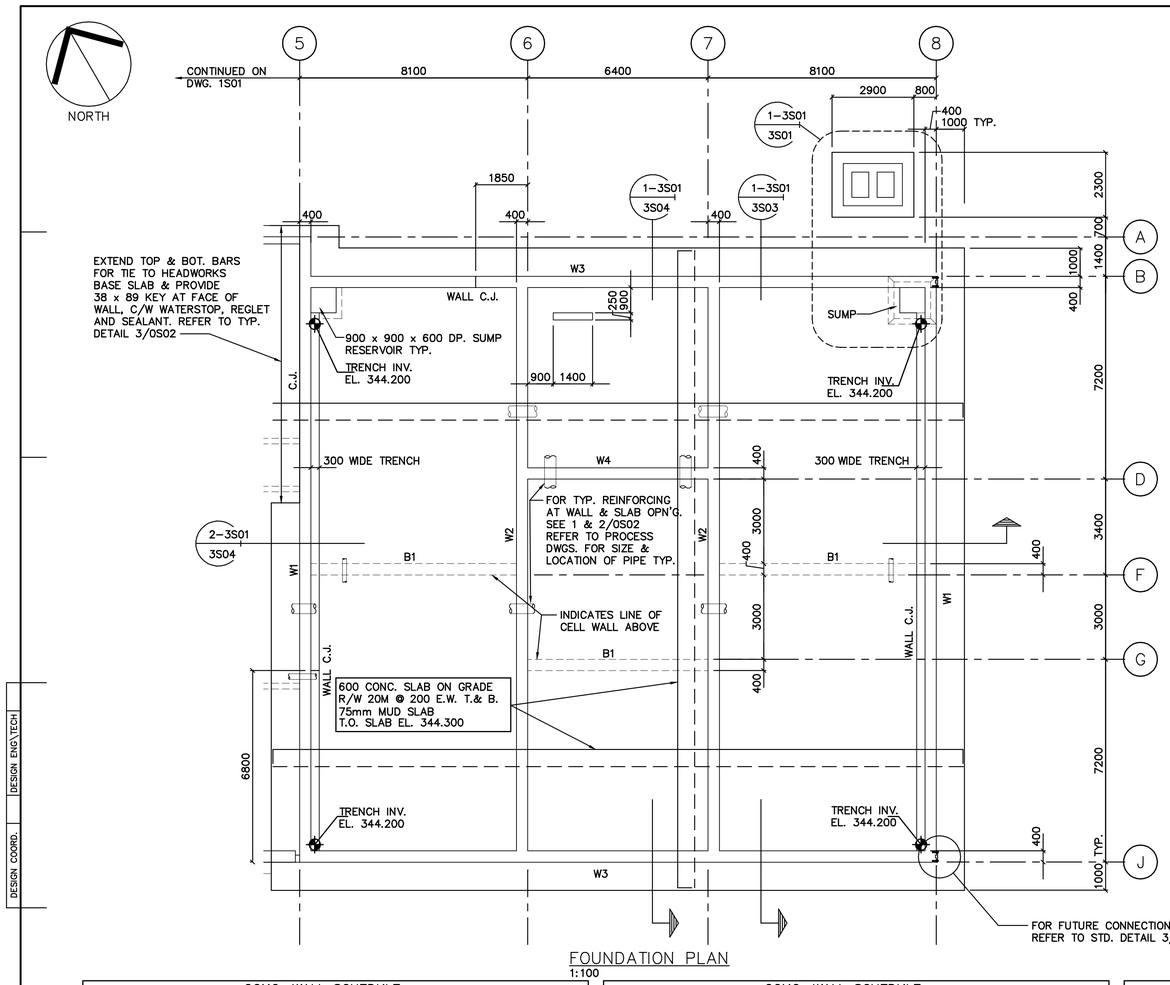
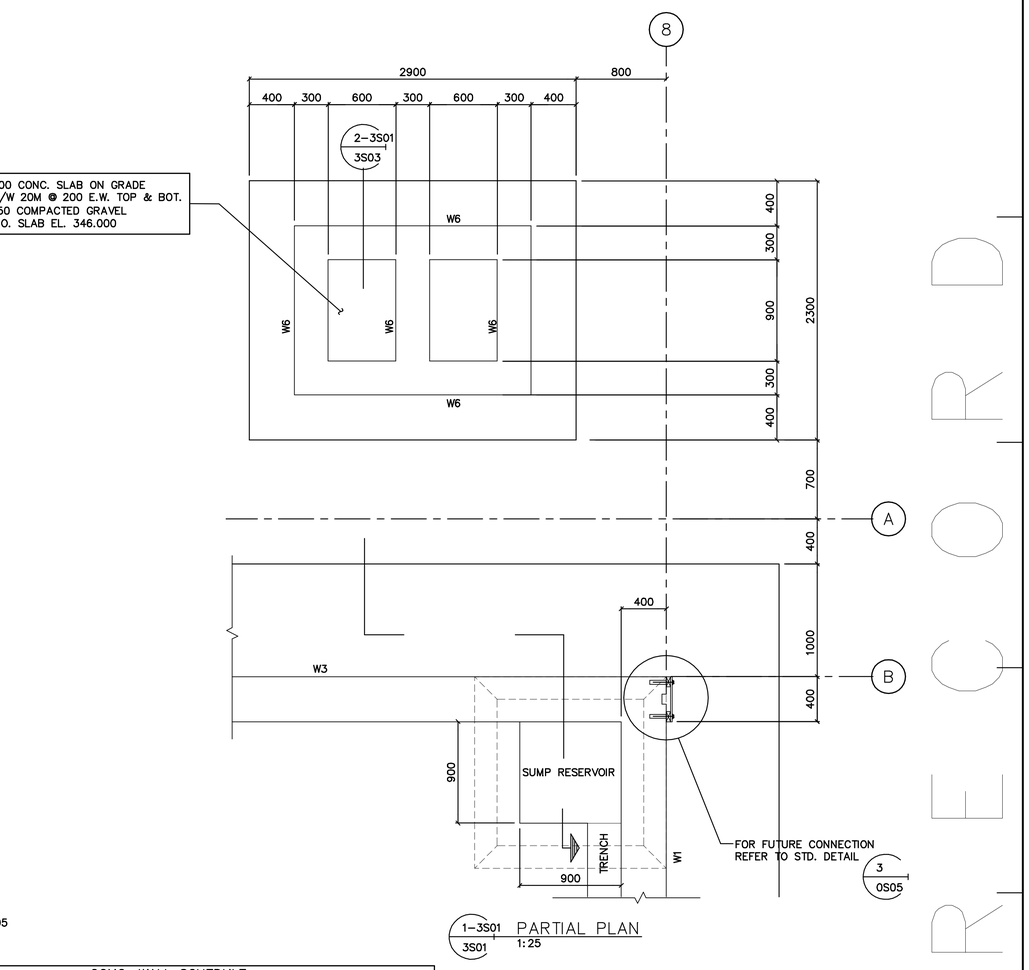
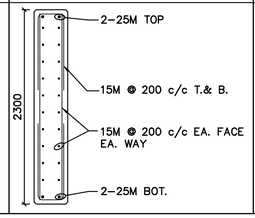


FOUNDATION PLAN
1:100



1-3S01
3S01 PARTIAL PLAN
1:25

CONC. WALL SCHEDULE			
MARK No.	THICKNESS (mm)	REINFORCING	REMARKS
W1	400	VERT. 25M DWLS. @ 150 c/c EA. FACE 20M @ 150 c/c EA. FACE HORZ. 15M @ 200 c/c EA. FACE ADD 15M @ 200 c/c E.F. AT CORNERS ADD 15M @ 200 c/c x 2000 LG. EA. FACE @ INTERSECTING WALLS & BEAMS	1500 L 1500 L 1500
W2	400	VERT. 20M DWLS. @ 150 c/c EA. FACE 20M @ 200 c/c EA. FACE HORZ. 15M @ 200 c/c EA. FACE ADD 15M @ 200 c/c E.F. AT CORNERS ADD 15M @ 200 c/c x 2000 LG. EA. FACE @ INTERSECTING WALLS & BEAMS	1500 L 1500 L 1500

CONC. WALL SCHEDULE			
MARK No.	THICKNESS (mm)	REINFORCING	REMARKS
W3 & W4	400	VERT. 20M DWLS. @ 200 c/c EA. FACE 15M @ 200 c/c EA. FACE HORZ. 15M @ 200 c/c EA. FACE ADD 15M @ 200 c/c x 2000 LG. EA. FACE @ INTERSECTING WALLS	1500 L
B1	400		900 900

CONC. WALL SCHEDULE			
MARK No.	THICKNESS (mm)	REINFORCING	REMARKS
W5	250	2-20M T.& B. 10M @ 200 c/c HORIZ. & VERT. E.F.	
W6	300	15M @ 200 c/c E.W. E.F.	

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
5	FEB 98	BWP	RECORD DRAWING	GDH					
4	7MAR97	BWP	ISSUED FOR CONSTRUCTION C.O. 3	GDH					
3	13FEB97	BWP	ISSUED FOR CONSTRUCTION	GDH					
2	30JAN97	BWP	WORK IN PROGRESS V.1 (BASE SLAB & WALLS)	GDH					
1	JULY 96	BWP	ISSUED FOR G.M.P. TENDER	GDH					

Design GDH
Drawn BWP
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 3
Reid Crowther 39844

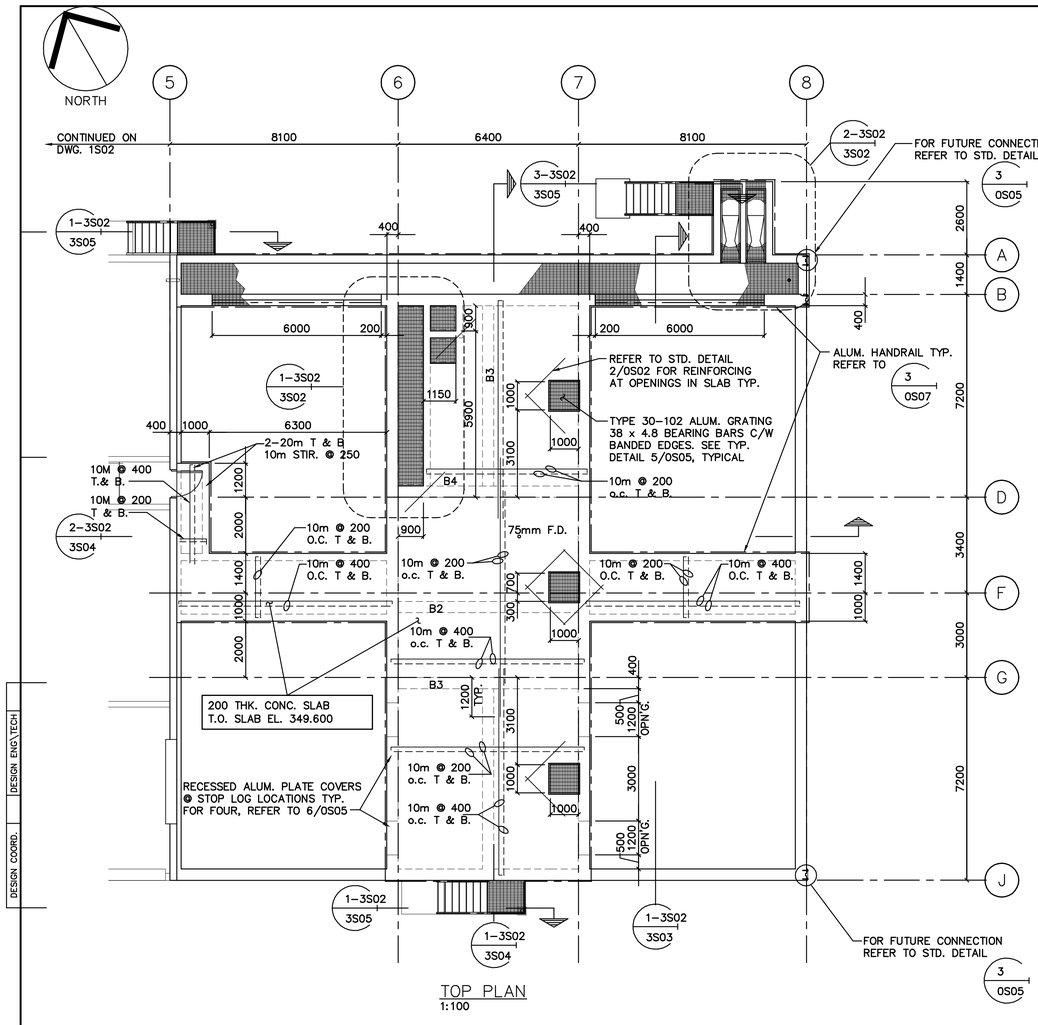
BIOREACTOR
FOUNDATION PLAN

Scale 1:100
Date JUNE 1996
City File
Sheet 1 of 5
Drawing 3S01

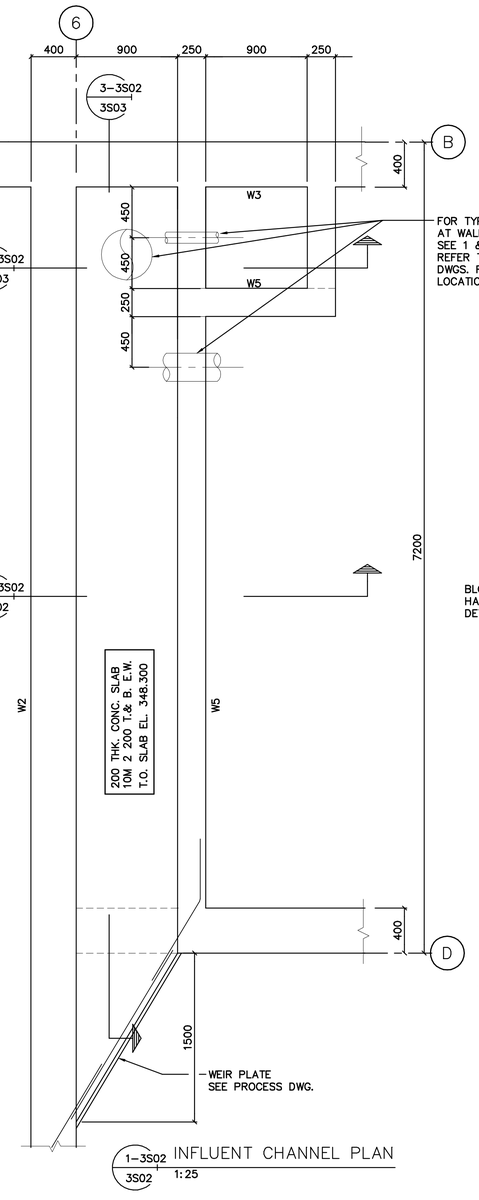
SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 5

DESIGN ENG\TECH | DESIGN COORD. | SWWTP\A1 in\PROJECTS\ENV\03984400\02A\1234\STRUCT\3S01.dwg Plotted 1998-05-28

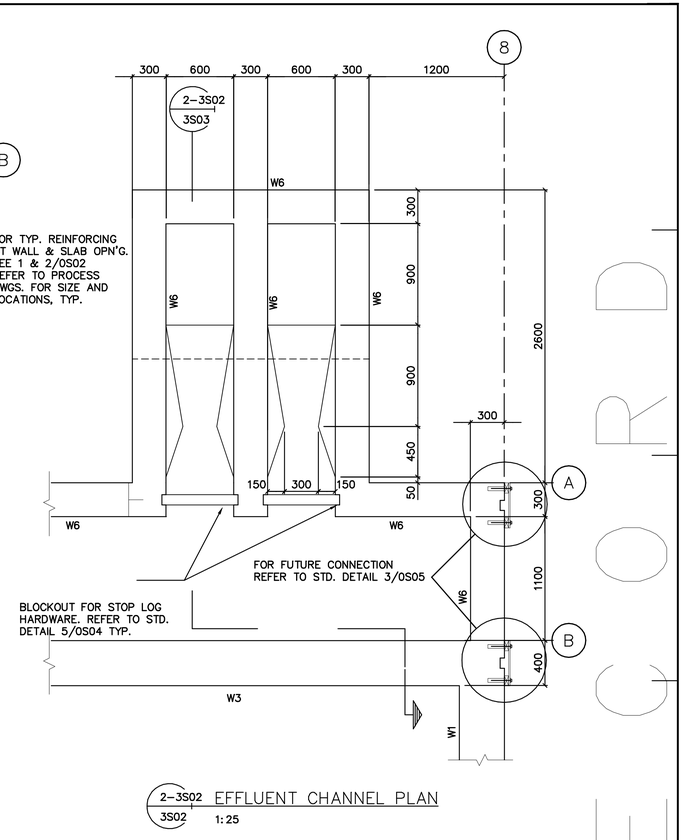
RECORD



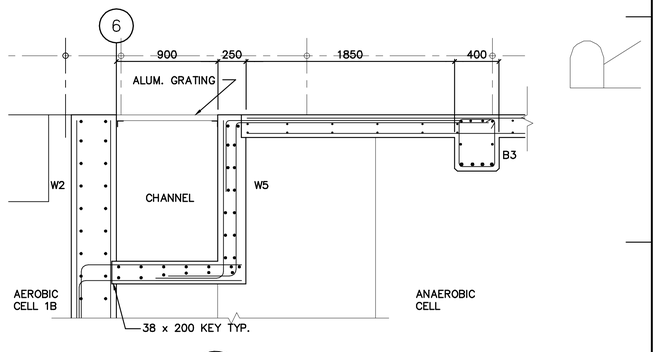
TOP PLAN
1:100



1-3S02 3S02 INFLUENT CHANNEL PLAN
1:25



2-3S02 3S02 EFFLUENT CHANNEL PLAN
1:25



3-3S02 3S02 SECTION
1:25

CONCRETE BEAM SCHEDULE			
MARK No.	SIZE	REINFORCING	REMARKS
B1			SEE DRAWING 3S01
B2	400x500 DP.	4-15M TOP 2-15M MID. 4-25M BOT. 10M STIRR. @ 250	
B3	400x500 DP.	4-15M TOP 2-15M MID 5-25M BOT 10M STIRR. @ 250	
B4	400x500 DP.	4-15M TOP 2-15M MID 5-30M BOT. 10M STIRR. @ 250	

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
6	JAN 98	BWP	RECORD DRAWING	GDH					
5	15APR97	BWP	ISSUED WITH CCN 1	GDH					
4	7MAR97	BWP	ISSUED FOR CONSTRUCTION C.O. 3	GDH					
3	11FEB97	BWP	ISSUED FOR CONSTRUCTION	GDH					
2	30JAN.97	BWP	WORK IN PROGRESS V.1 (TOP SLAB)	GDH					
1	JULY 96	BWP	ISSUED FOR G.M.P. TENDER	GDH					

Design GDH
Drawn BWP
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 3
BIOREACTOR
TOP PLAN

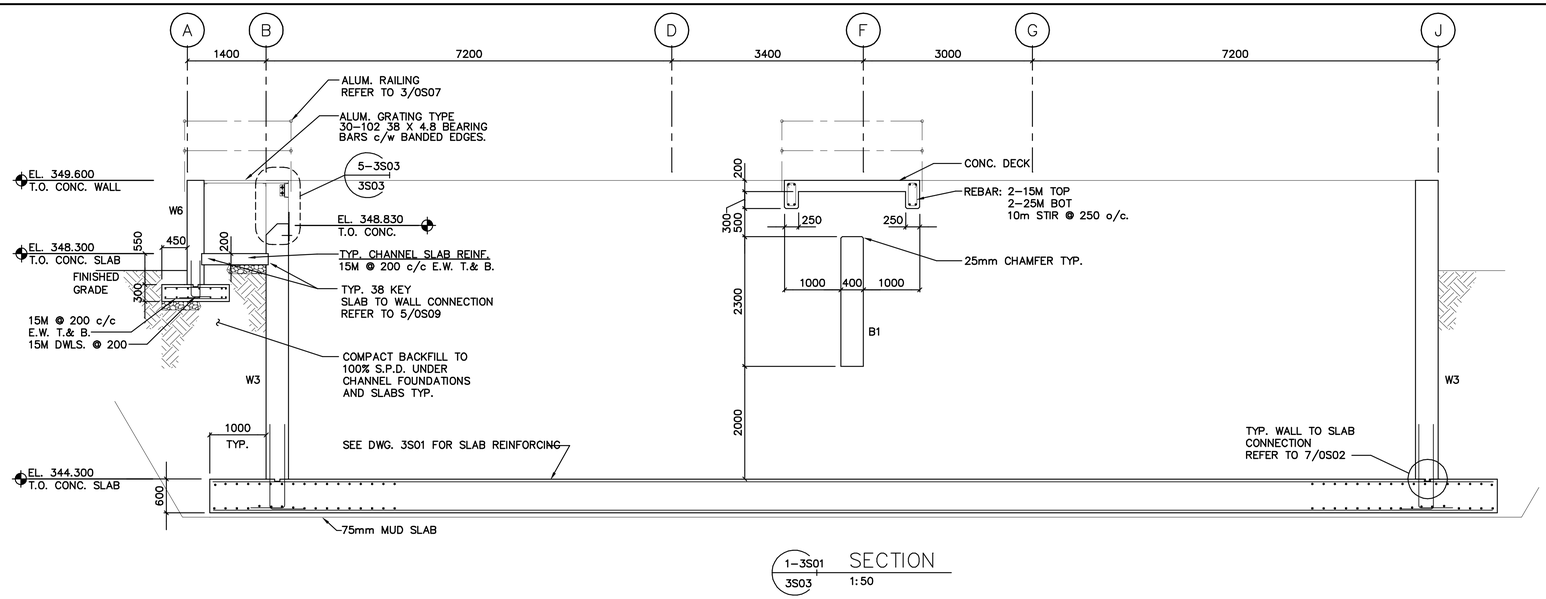
Reid Crowther 39844

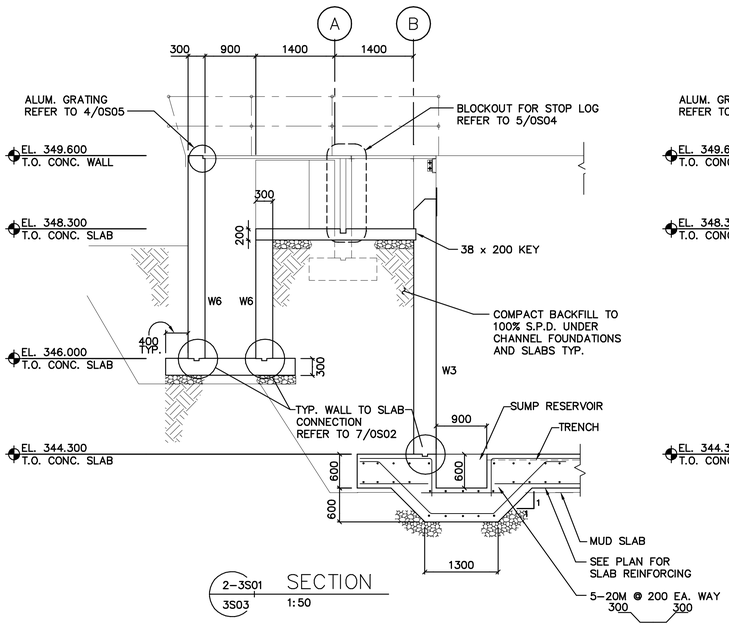
Scale 1:100
Date JUNE 1996
City File
Sheet 2 of 5
Drawing 3S02

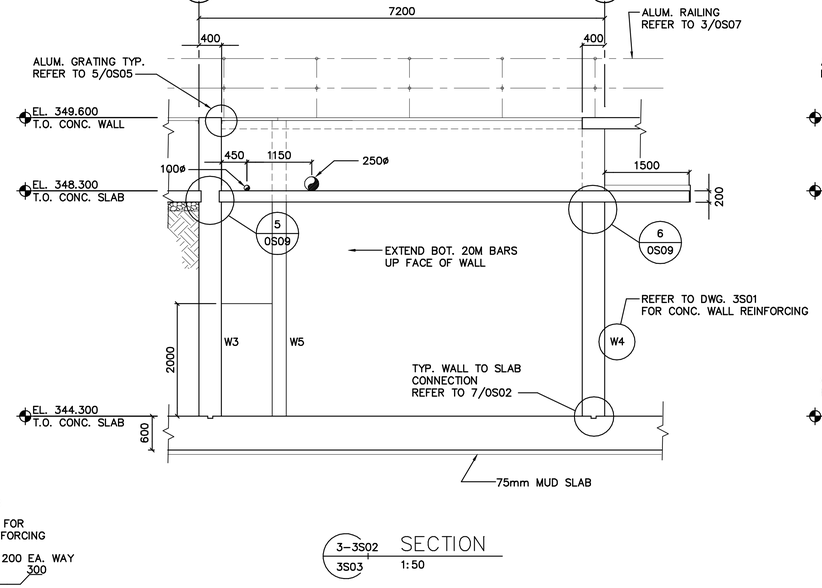
SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 6

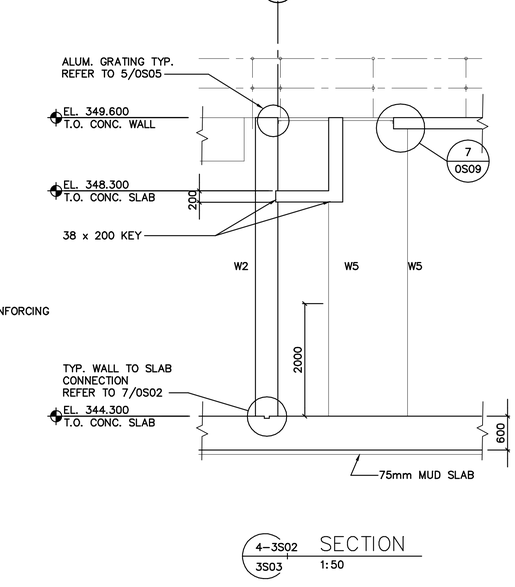
DESIGN COORD. | DESIGN ENG\TECH | H:\PROJECTS\ENV\03884400\02A\123A\STRUCT\3V8443S02 Plotted 1998-05-28 | SWWTPA1

AS CONSTRUCTED









DESIGN ENG'G TECH | DESIGN COORD. | Plotted 1996-06-28 | SWWTP1A1 | H:\PROJECTS\SWW\03894400\00A\123A\STRUCT\3_0944S03

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No.	Date	By	Revision	Chkd
5	JAN 98	BWP	RECORD DRAWING	GDH
4	7MAR97	BWP	ISSUED FOR CONSTRUCTION C.O. 3	GDH
3	13FEB97	BWP	ISSUED FOR CONSTRUCTION	GDH
2	30JAN97	BWP	WORK IN PROGRESS V. 1 (BASE SLAB & WALLS)	GDH
1	JULY 96	BWP	ISSUED FOR G.M.P. TENDER	GDH

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Design	GDH
Drawn	BWP
Checked	
Submitted	
Approved	

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT

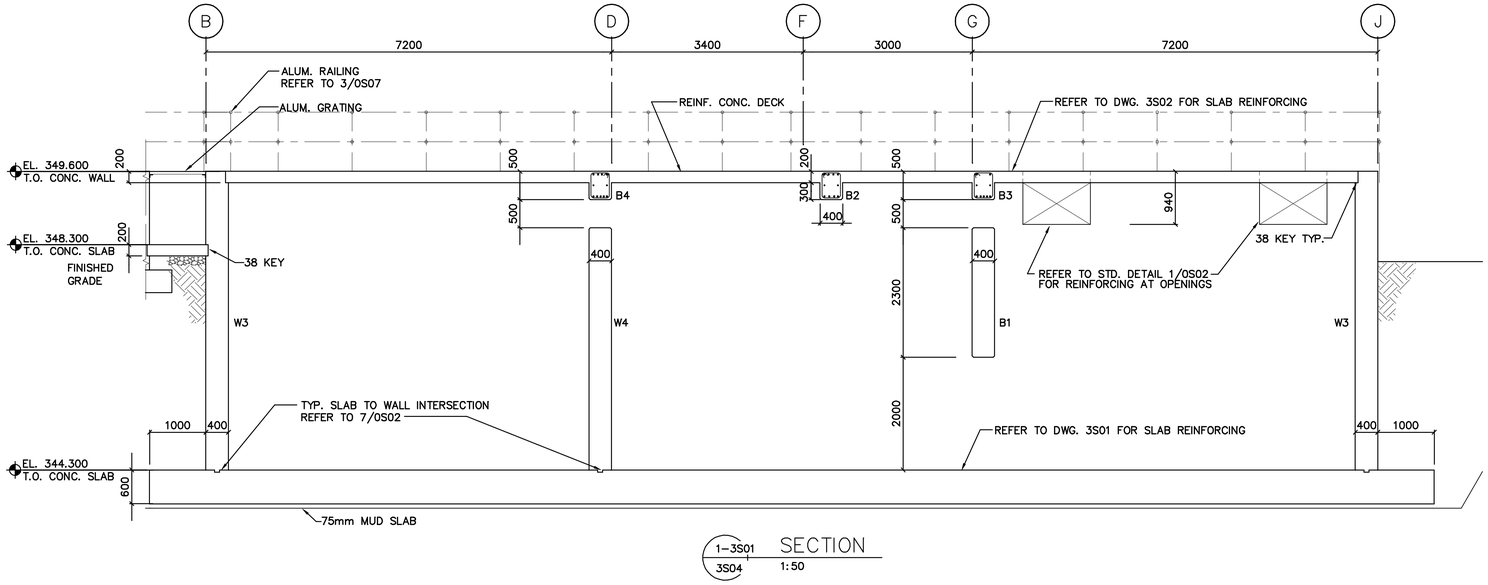
AREA 3

Reid Crowther 39844

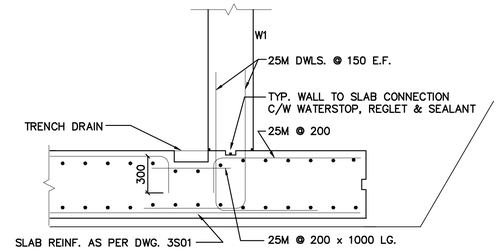
BIOREACTOR
SECTIONS AND DETAILS

Scale	1:50
Date	JUNE 1996
City File	
Sheet	3 of 5
Drawing	3S03

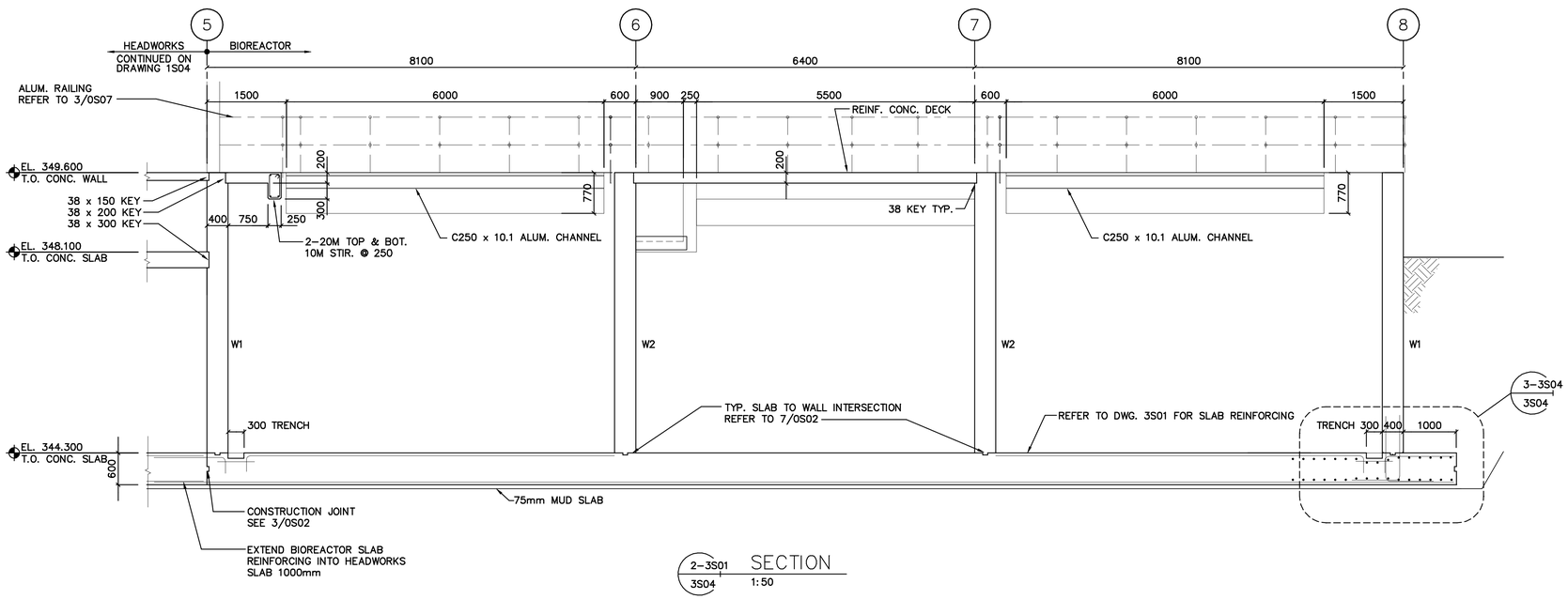
SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 5



1-3S01 / 3S04 SECTION 1:50



3-3S04 / 3S04 DETAIL 1:25



2-3S01 / 3S04 SECTION 1:50

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
6	3JUNE97	BWP	APPROVED FOR CONSTRUCTION, C.O. 5	GDH					
5	15APR97	BWP	ISSUED WITH CCN 1	GDH					
4	7MAR97	BWP	ISSUED FOR CONSTRUCTION C.O. 3	GDH					
3	13FEB97	BWP	ISSUED FOR CONSTRUCTION	GDH					
2	30JAN.97	BWP	WORK IN PROGRESS V. 1 (BASE SLAB & WALLS)	GDH					
1	JULY 96	BWP	ISSUED FOR G.M.P. TENDER	GDH	7	JAN. 98	BWP	RECORD DRAWING	GDH

Design	GDH
Drawn	BWP
Checked	
Submitted	
Approved	

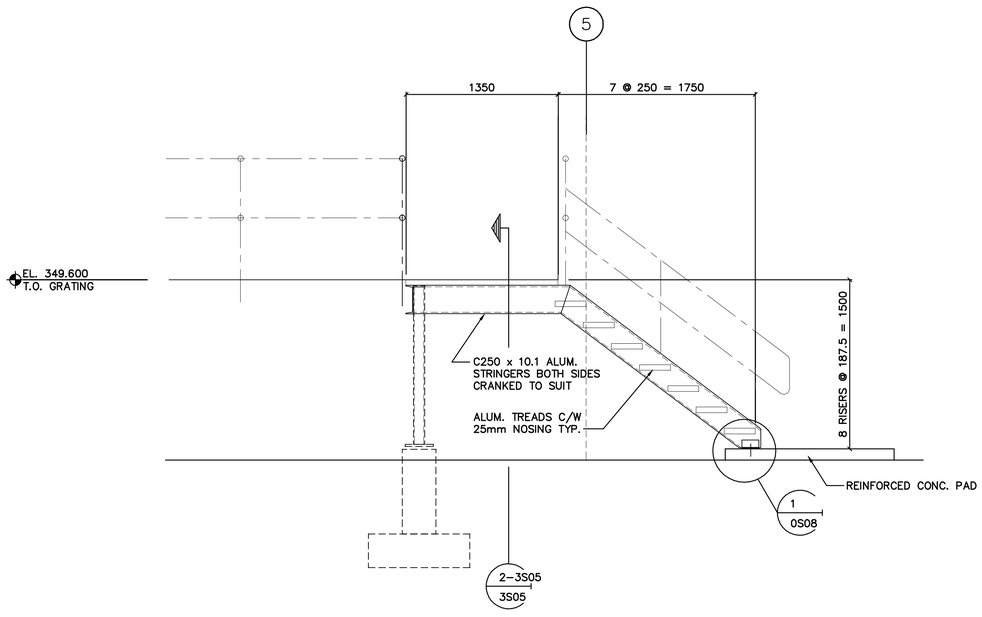
THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 3
Reid Crowther 39844

BIOREACTOR
SECTIONS AND DETAILS

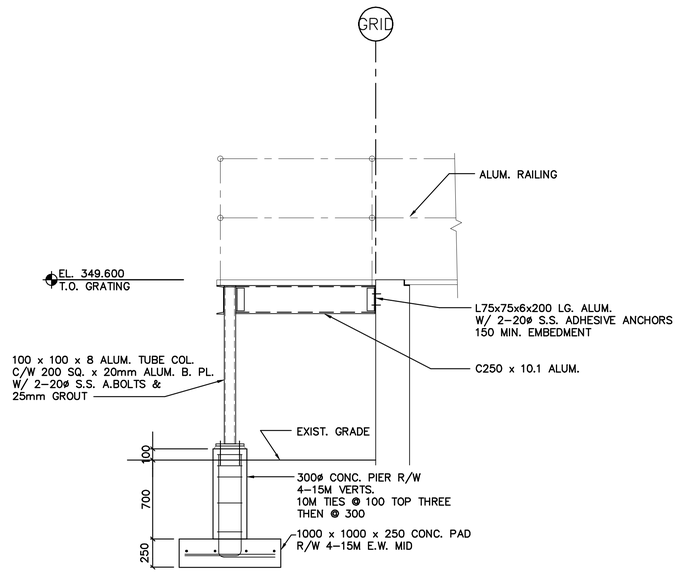
Scale	1:50
Date	JUNE 1996
City File	
Sheet	4 of 5
Drawing	3S04

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 7

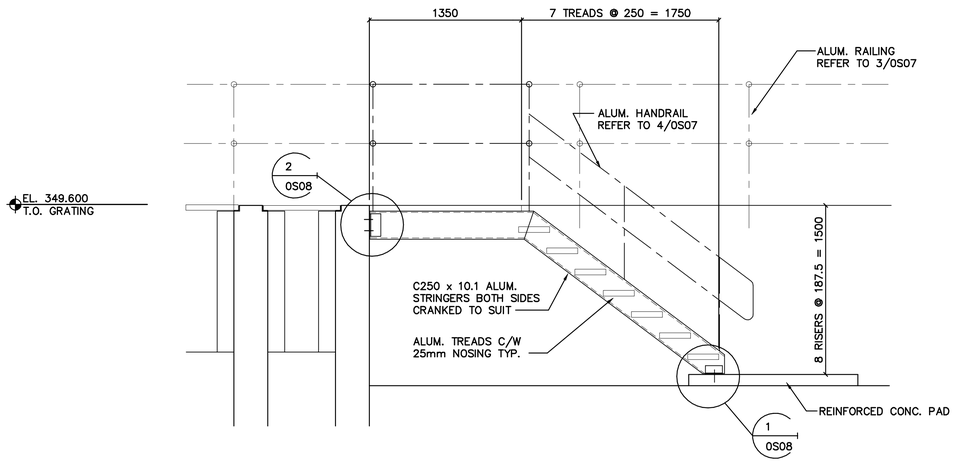
DESIGN ENG\TECH | DESIGN COORD. | Plotted 1998-05-28 | H:\PROJECTS\ENV\03984400\02A\1234\STRUCT\3_8443S04 | SWWTPA1



1-3S02 / 3S05 SECTION 1:25



2-3S05 / 3S05 SECTION 1:25



3-3S02 / 3S05 SECTION 1:25

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
5	JAN 98	BWP	RECORD DRAWING	GDH					
4	7MAR97	BWP	ISSUED FOR CONSTRUCTION C.O. 3	GDH					
3	11FEB97	BWP	ISSUED FOR CONSTRUCTION	GDH					
2	30JAN.97	BWP	WORK IN PROGRESS	GDH					
1	JULY 96	BWP	ISSUED FOR G.M.P. TENDER	GDH					

Design GDH
Drawn BWP
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 3
BIOREACTOR
SECTIONS AND DETAILS

Reid Crowther 39844

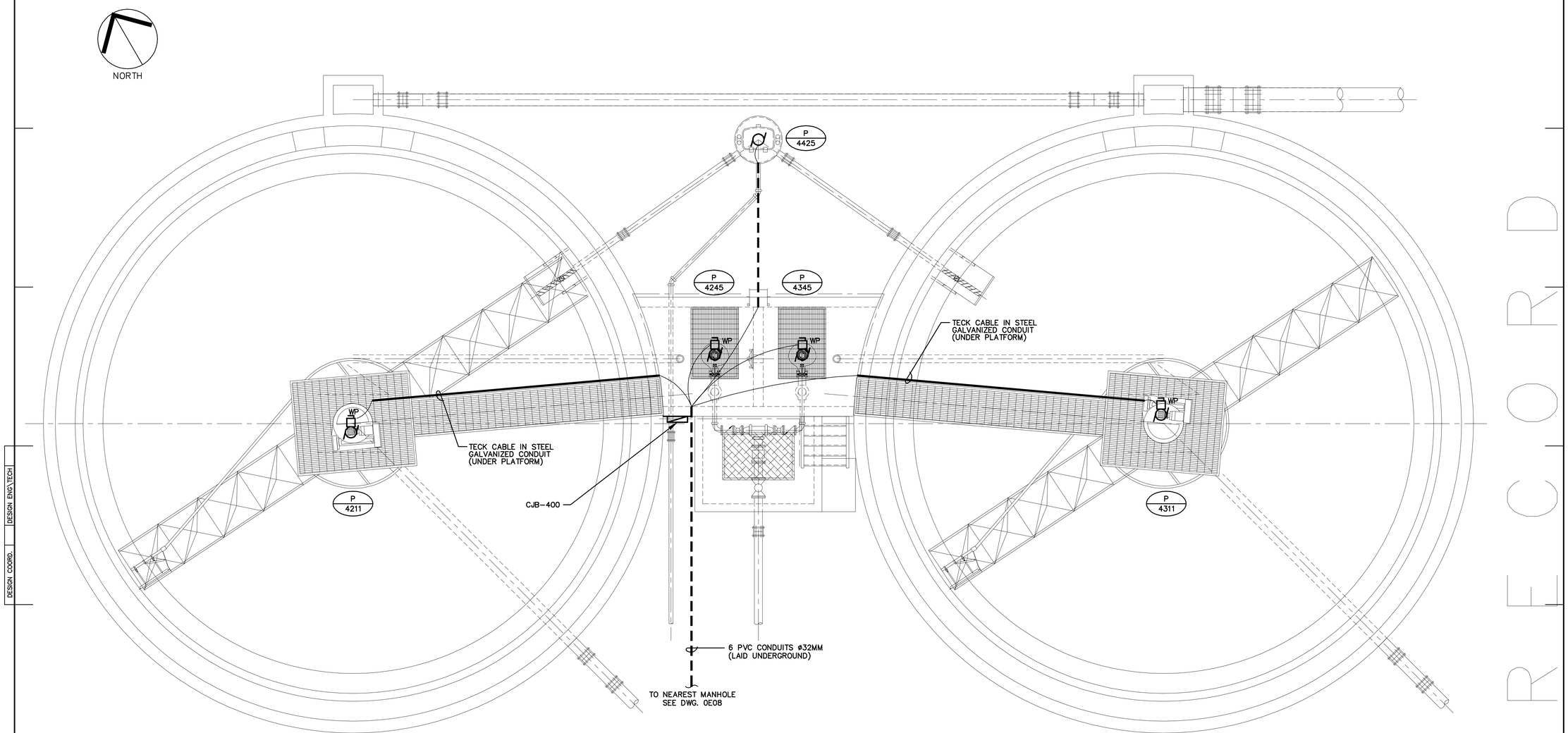
Scale 1:25
Date JUNE 1996
City File
Sheet 5 of 5
Drawing 3S05

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 5

DESIGN COORD. | DESIGN ENG\TECH

SWMTP\A1 H:\PROJECTS\ENVI\0398440\02A\123A\STRUCT\3S443S05 Plotted 1998-05-28

RECORD



1 / 4E01 SECONDARY CLARIFIERS – POWER

SCALE 1:50

NOTES:

1. PULL TECK CABLES THROUGH PVC CONDUITS TO ADJACENT MANHOLES FOR ELECTRICAL CABLES AND FURTHER THROUGH THE DUCTS TOWARDS ELECTRICAL ROOM – SEE DWG. 0E08
2. LOCATE DISCONNECT SWITCHES AND CONTROL PANELS WHERE MOST APPROPRIATE WITH RESPECT TO STRUCTURES AND PROCESS EQUIPMENT.

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
4	26JUN98	KM	RECORD DRAWING	KJW					
3	38MAY97	KM	APPROVED FOR CONSTRUCTION, CO 4	KHM					
2	09APR97	KM	ISSUED FOR CONSTRUCTION (DUCT SCHEDULE)	KHM					
1	JULY 96	KM	ISSUED FOR GMP TENDER	KHM					

Design KM
Drawn KM
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 4 – SECONDARY CLARIFIERS
POWER

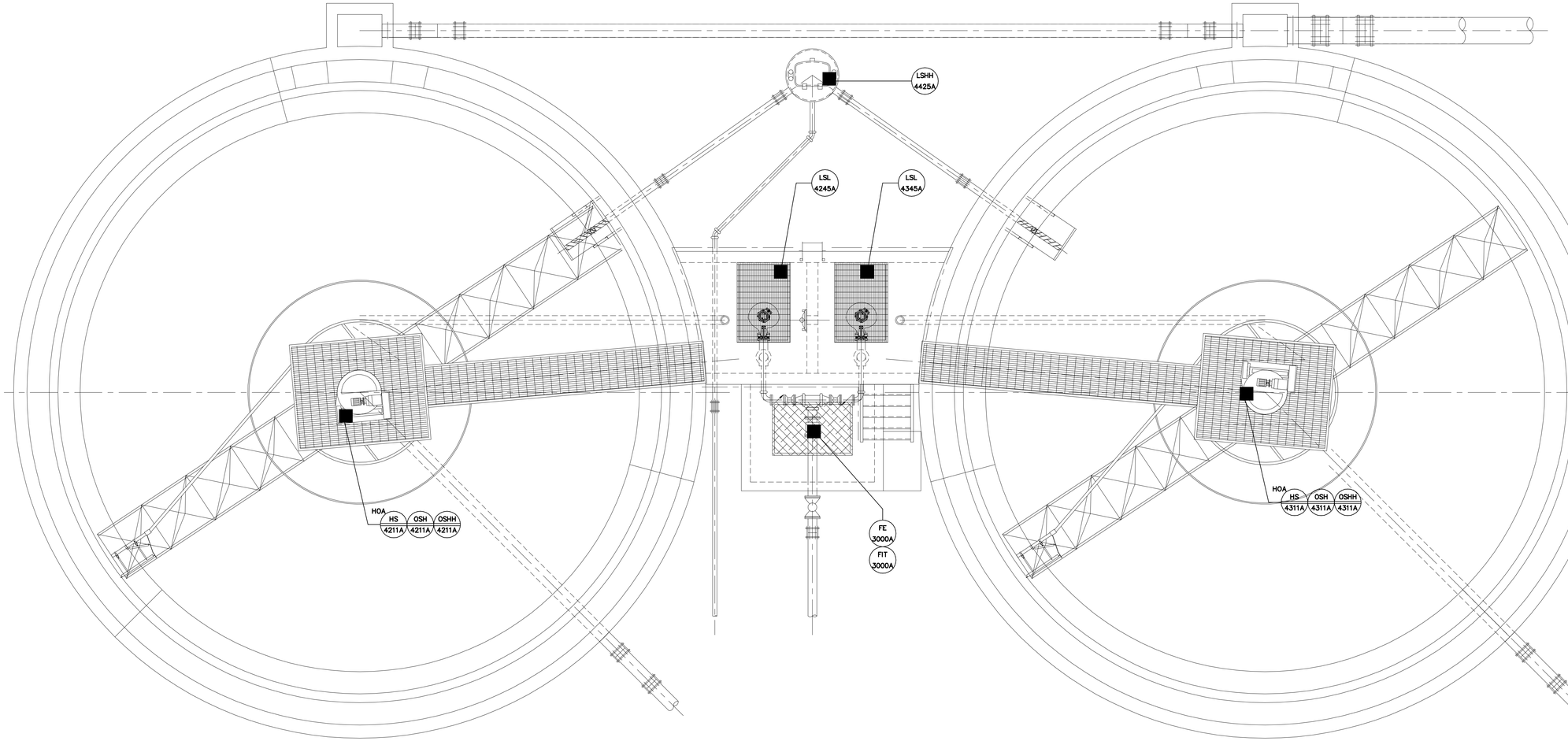
Reid Crowther 39844

Scale AS SHOWN
Date JULY 1996
City File
Sheet of
Drawing 4E01

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 4

DESIGN ENG\TECH
DESIGN COORD.
H:\PROJECTS\DWG\39844400\02A\123A\ELEC\844E01 Plotted 1998-07-17
SWWTPA1

RECORD



PLAN
1:50

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RECORD

DESIGN ENG\TECH | DESIGN COORD. | SWWTPA1 H:\PROJECTS\DWG\00844400\GDA\123A\LEED\844401 Plotted 1998-07-17

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
5	JUNE 98	KM	RECORD DRAWING	KJW					
4	28MAY97	KJW	APPROVED FOR CONSTRUCTION, C.O. 4	CGL					
3	5MAR97	KJW	ISSUED FOR CONSTRUCTION	CGL					
2	9JAN97	KJW	WORK IN PROGRESS V.1 (CENTER DRIVE)	KAC					
1	JULY 96	KJW	ISSUED FOR GMP TENDER	CGL					

Design BLC
Drawn GDS/KJW
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT

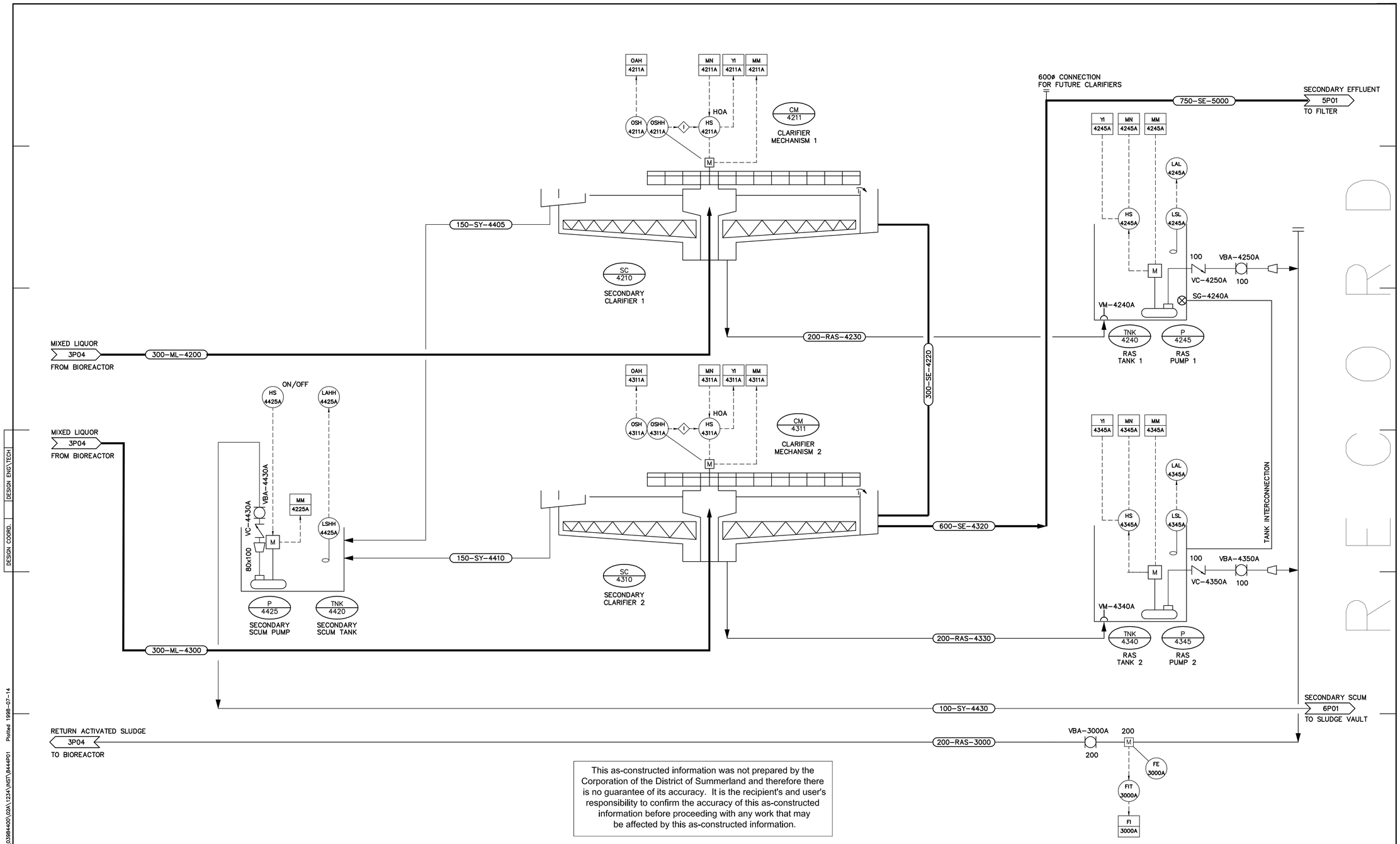
AREA 4 – SECONDARY CLARIFIERS

INSTRUMENTATION LAYOUT

Reid Crowther
39844

Scale AS NOTED
Date JULY 1996
City File
Sheet 1 of 1
Drawing 4101

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 5



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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
6	20 MAY 98	GDB	RECORD DRAWING	KJW					
5	28MAY97	KJW	APPROVED FOR CONSTRUCTION, C.O. 4	CGL					
4	28FEB97	KJW	ISSUED FOR CONSTRUCTION	CGL					
3	9JAN97	KJW	WORK IN PROGRESS V.2 (MAG METERS)	KAC					
2	15NOV96	KJW	WORK IN PROGRESS V.1 (CLAR. MECH. DRIVE)	KAC					
1	JULY 96	KJW	ISSUED FOR GMP TENDER	BLC					

Design	CGL/BLC
Drawn	GDS/KJW
Checked	
Submitted	
Approved	

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT

AREA 4 – SECONDARY CLARIFIERS

Reid Crowther 39844

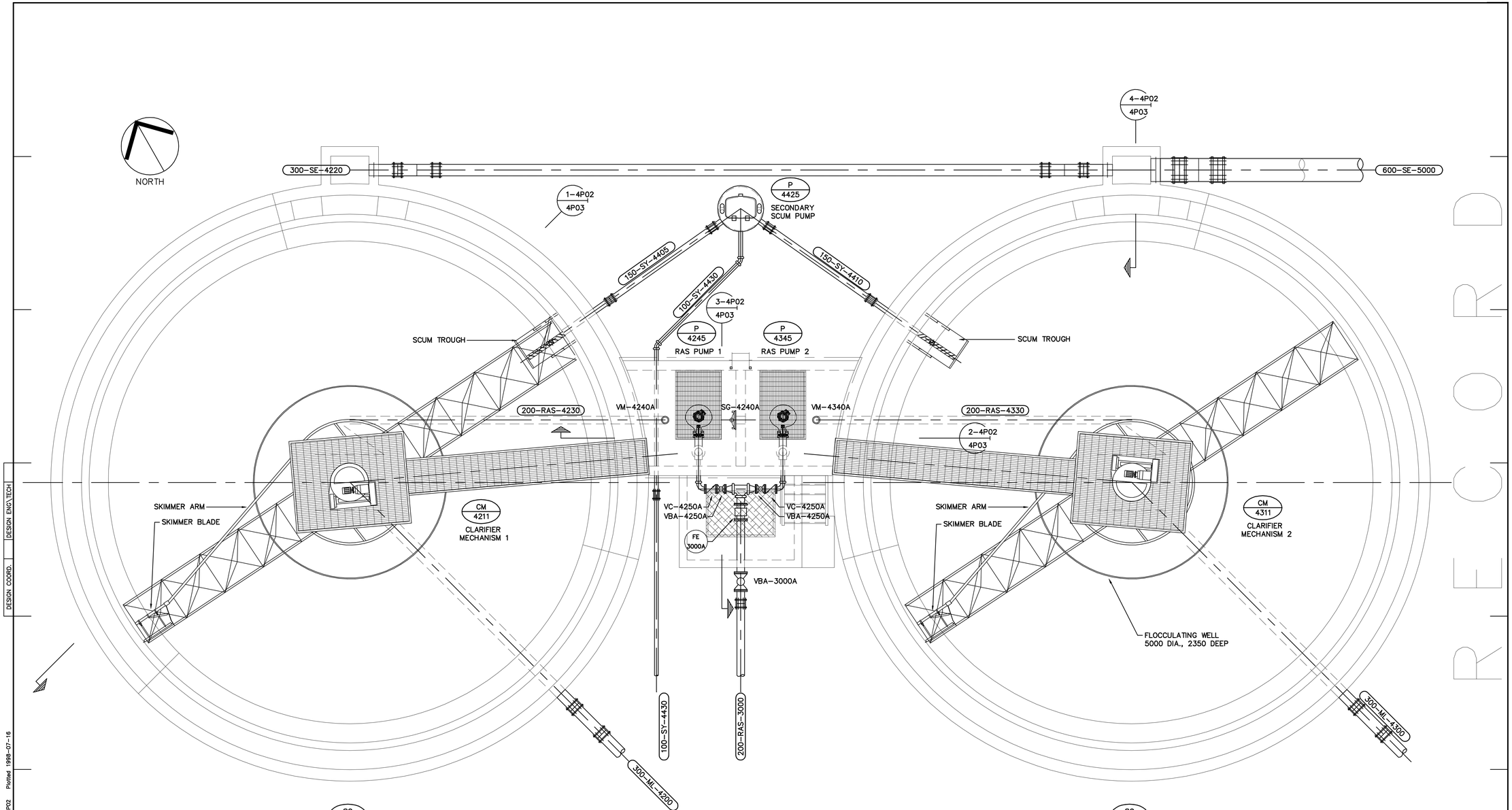
SECONDARY CLARIFIERS 1 AND 2
PIPING AND INSTRUMENTATION DIAGRAM

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 6

Scale	AS NOTED
Date	MAY 1996
City File	
Sheet	of
Drawing	4P01

DESIGN ENG\TECH | DESIGN COORD. | Plotted 1998-07-14 | H:\PROJECTS\ENV\039844\00\02A\1234\INST\84 4P01 | SWMTPA1

RECORD



PLAN
1:50

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
6	20 MAY 98	GDB	RECORD DRAWING	KJW					
5	7MAR97	KJW	ISSUED FOR CONSTRUCTION C.O. 3	CGL					
4	13FEB97	KJW	ISSUED FOR CONSTRUCTION (INCR. PIPE SIZE)	CGL					
3	10DEC96	KJW	WORK IN PROGRESS V.2 (STRUCTURAL BASE)	CGL					
2	15NOV96	KJW	WORK IN PROGRESS V.1 (CLAR. MECH.)	CGL					
1	JULY 96	KJW	ISSUED FOR GMP TENDER	CGL					

Design CGL
Drawn GDS
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT

AREA 4 – SECONDARY CLARIFICATION

SECONDARY CLARIFIERS
GENERAL ARRANGEMENT

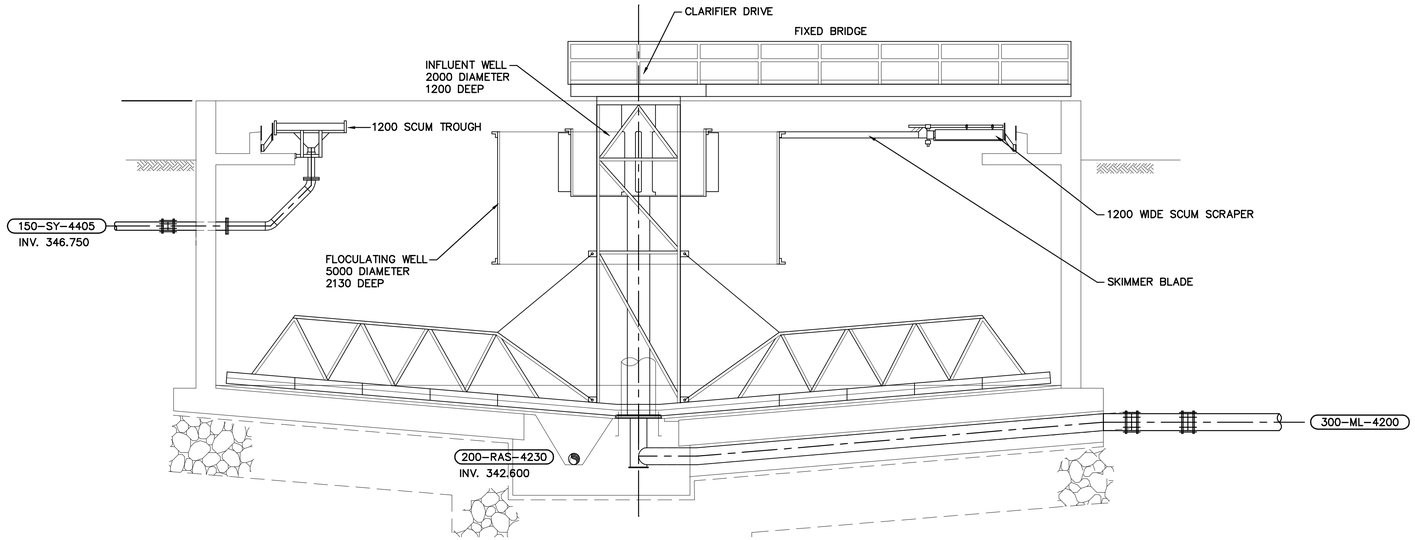
Reid Crowther
39844

Scale 1:50
Date JUNE 1996
City File
Sheet of
Drawing 4P02

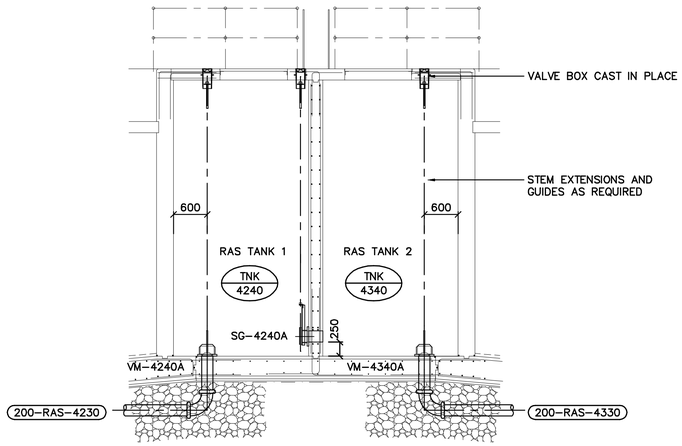
SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 6

DESIGN ENG\TECH
DESIGN COORD.
Plotted 1998-07-16
H:\PROJECTS\ENV\03984400\02A\123A\PROC\4\84444P02
SIWTP1A1

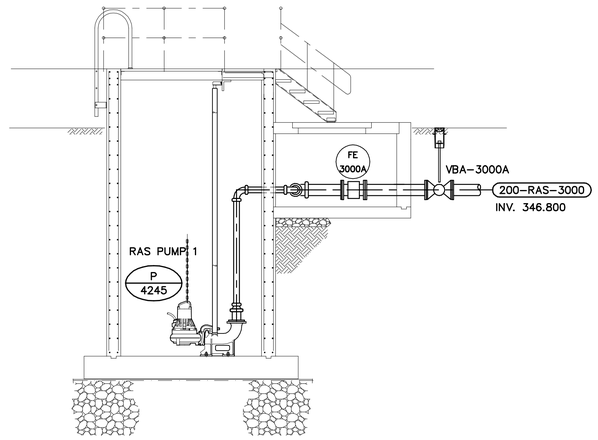
RECORD



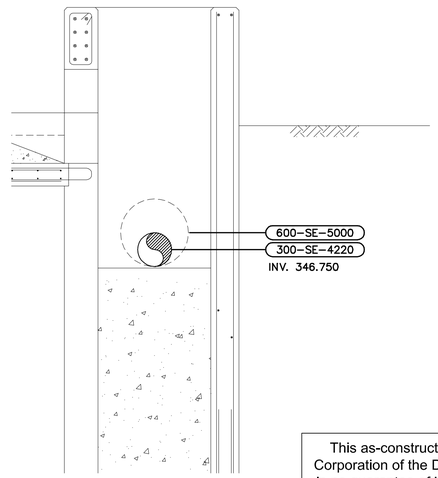
1–4P02 SECTION
4P03 1:50



2–4P02 SECTION
4P03 1:50



3–4P02 SECTION
4P03 1:50



4–4P02 SECTION
4P03 1:25

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
6	20 MAY 98	GDB	RECORD DRAWING	KJW					
5	7MAR97	KJW	ISSUED FOR CONSTRUCTION C.O. 3	CGL					
4	13FEB97	KJW	ISSUED FOR CONSTRUCTION (INCR. PIPE SIZE)	CGL					
3	10DEC96	KJW	WORK IN PROGRESS V.2 (INVERTS, STRUCT.BASE)	CGL					
2	15NOV96	KJW	WORK IN PROGRESS V.1 (CLAR. MECH, VALVES)	CGL					
1	JULY 96	KJW	ISSUED FOR GMP TENDER	CGL					

Design CGL/KJW
Drawn KJW
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 4 – SECONDARY CLARIFIERS
SECTIONS AND DETAILS

Reid Crowther 39844

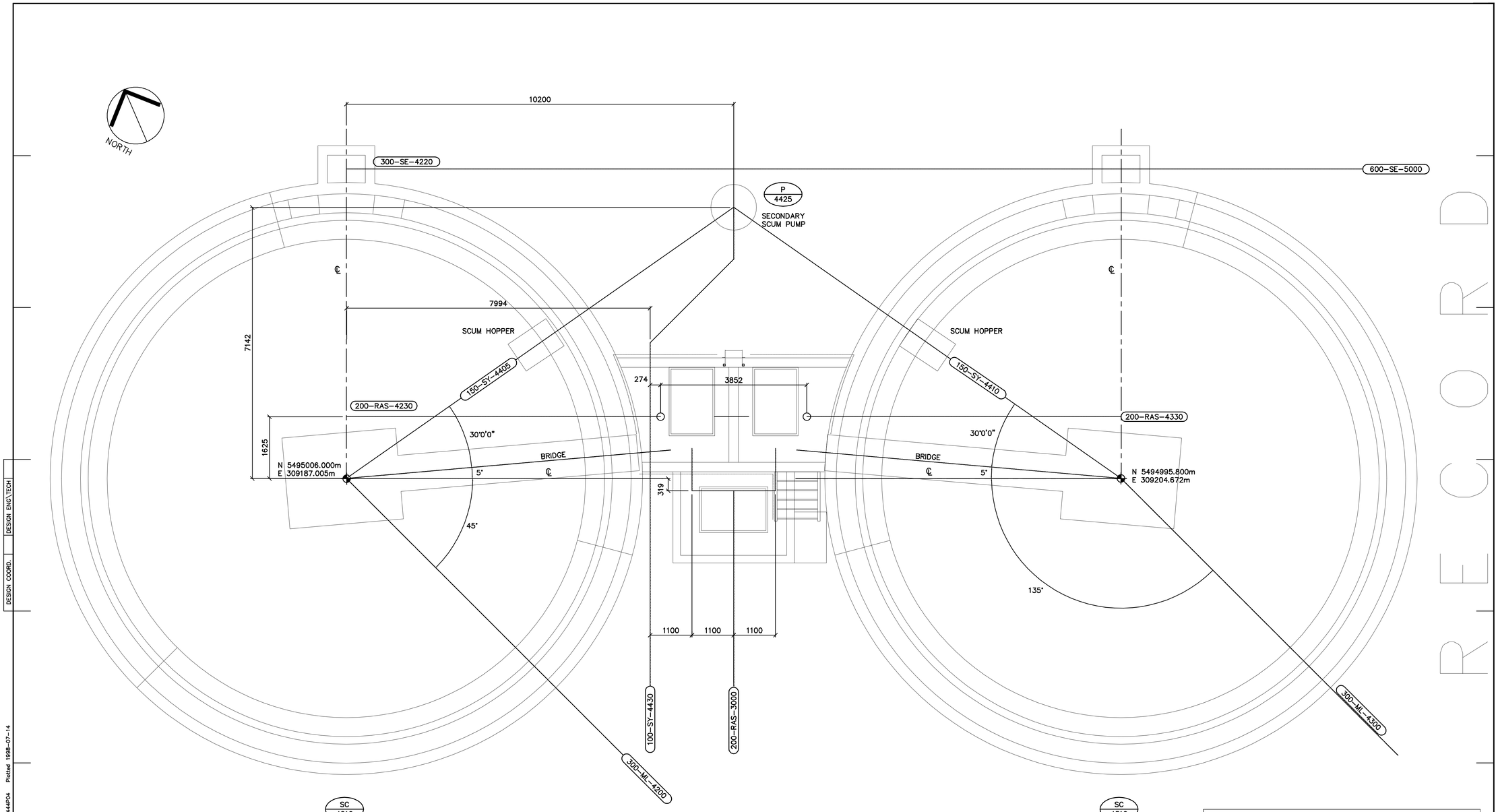
Scale AS NOTED
Date JUNE 1996
City File
Sheet of
Drawing 4P03

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 6

DESIGN COORD. | DESIGN ENG'G TECH

SWWTPA1 H:\PROJECTS\DWG\0398-4400\02A\12SA\PROC\4\98440P03 Plotted: 1998-07-14

RECORD



PLAN
1:50

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
4	20 MAY 98	GDB	RECORD DRAWING	KJW					
3	28MAY97	KJW	APPROVED FOR CONSTRUCTION, C.O. 4	CGL					
2	27FEB97	KJW	ISSUED FOR CONSTRUCTION	CGL					
1	10DEC96	KJW	WORK IN PROGRESS V.1 (CLAR. GEOMETRY)	CGL					

Design CGL
Drawn KJW
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT

AREA 4 – SECONDARY CLARIFICATION

SECONDARY CLARIFIERS
GENERAL GEOMETRY

Reid Crowther
39844

Scale 1:50
Date DEC 1996
City File
Sheet of
Drawing 4P04

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO →

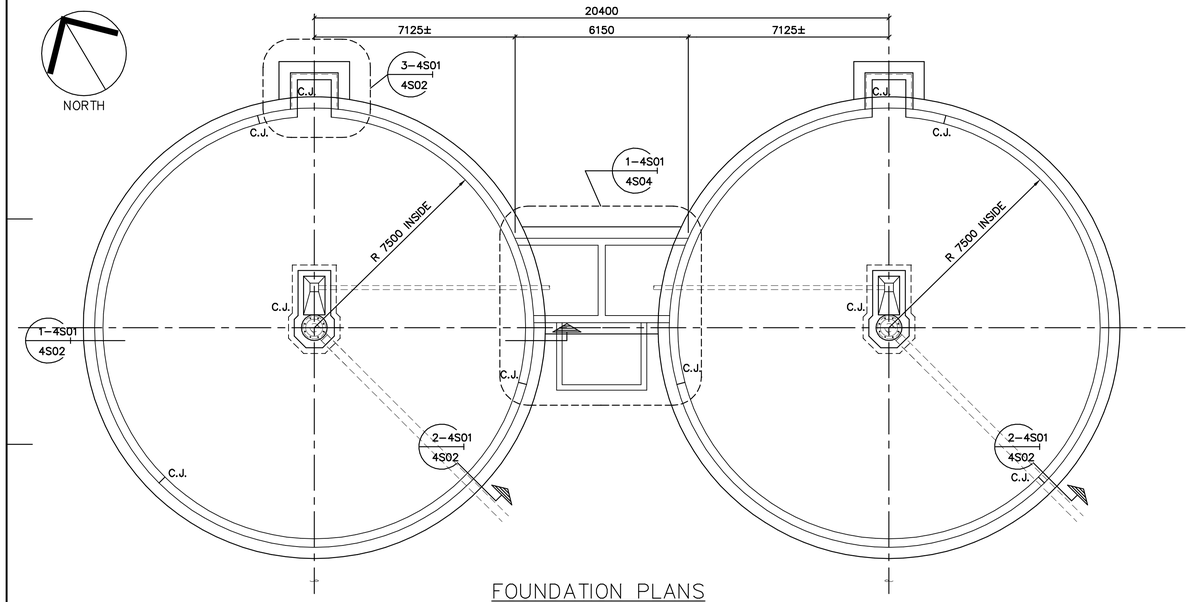
4

DESIGN ENG\TECH
DESIGN COORD.
SWWTP1A1 H:\PROJECTS\ENV\039844\00\02A\1234\PROC\V1\844P04 Plotted 1998-07-14

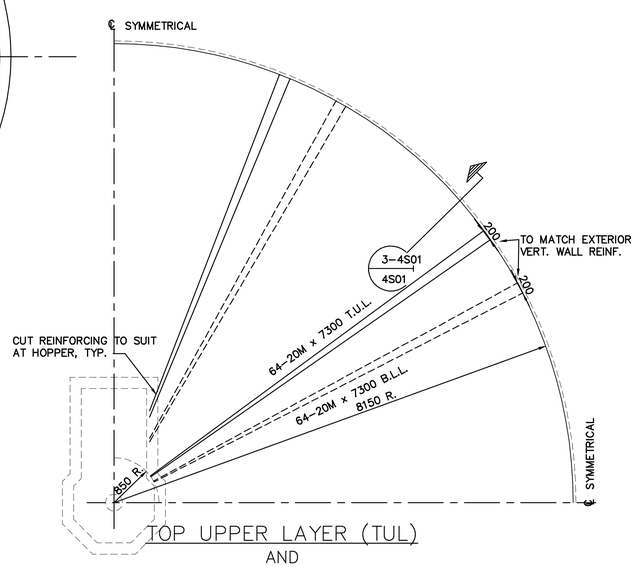
RECORD

This as-constructed information was not prepared by the Corporation of the District of Summerland and therefore there is no guarantee of its accuracy. It is the recipient's and user's responsibility to confirm the accuracy of this as-constructed information before proceeding with any work that may be affected by this as-constructed information.

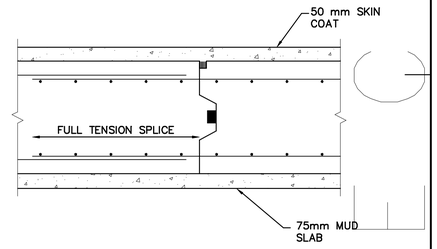
RECORD COPY



FOUNDATION PLANS
1:100

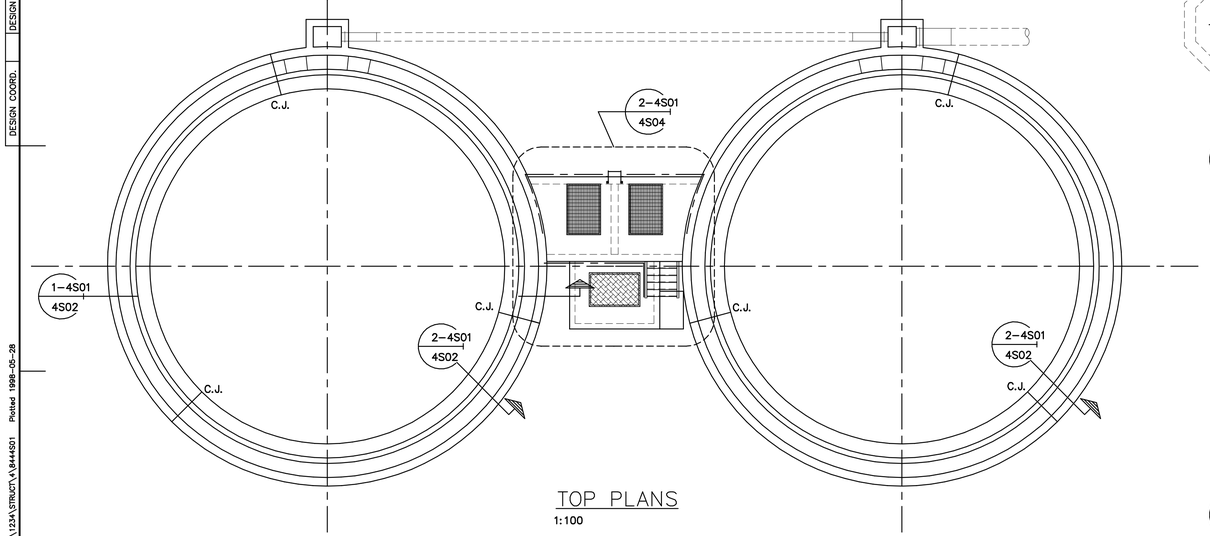


TOP UPPER LAYER (TUL)
AND
BOT. LOWER LAYER (BLL)

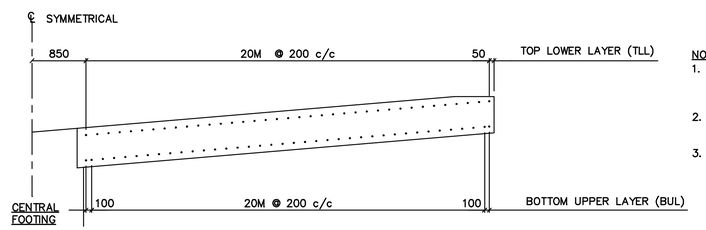


1–4S01 / 4S01 BASE SLAB RADIAL REINFORCING
1:50

2–4S01 / 4S01 SLAB CONSTRUCTION JOINT (C.J.) AT HOPPER ONLY
N.T.S.



TOP PLANS
1:100



NOTES:
1. ALL BARS TO BE CURVED (ie: CONCENTRIC ABOUT CENTER OF CLARIFIER)
2. ALL LAPS TO BE FULL TENSION SPLICES
3. SLAB TO BE CAST IN 4 SECTIONS (90° EACH) : EXTEND CONCENTRIC FOR FULL TENSION SPLICE FROM EACH QUARTER INTO EACH SUBSEQUENTLY–PLACED QUARTER.

3–4S01 / 4S01 BASE SLAB CONCENTRIC REINFORCING
1:50

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
5	JAN. 98	BWP	RECORD DRAWING	GDH					
4	5FEB 97	BWP	APPROVED FOR CONSTRUCTION, C.O. 2	GDH					
3	4FEB 97	BWP	ISSUED FOR BUILDING PERMIT.	GDH					
2	DEC. 96	BWP	ISSUED FOR CONSTRUCTION	GDH					
1	JULY 96	BWP	ISSUED FOR G.M.P. TENDER	GDH					

Design GDH
Drawn BWP
Checked
Submitted
Approved

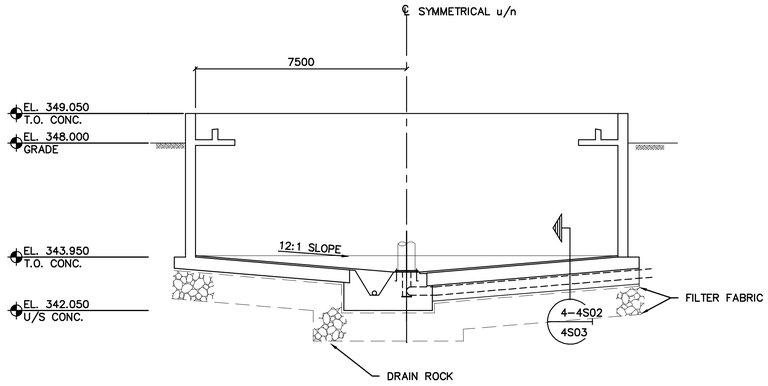
THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 4
Reid Crowther 39844

SECONDARY CLARIFIERS
FOUNDATION PLANS / TOP PLANS

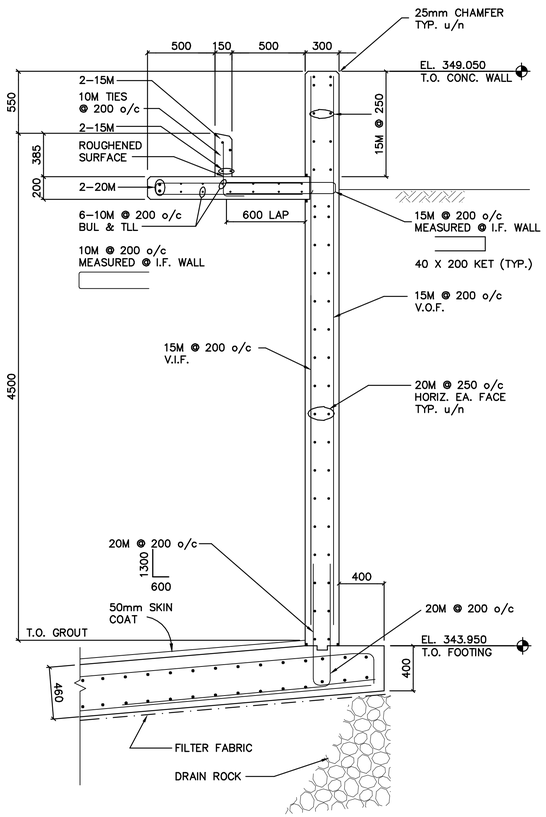
Scale 1:100
Date JUNE 1996
City File
Sheet 1 of 4
Drawing 4S01

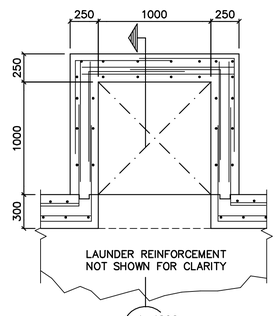
SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 5

DESIGN COORD. | DESIGN ENG\TECH
Plotted 1998-05-28
SWWTP1A1 H:\PROJECTS\ENV\0398400\02A\123A\STRUCT\A1 (8444501)

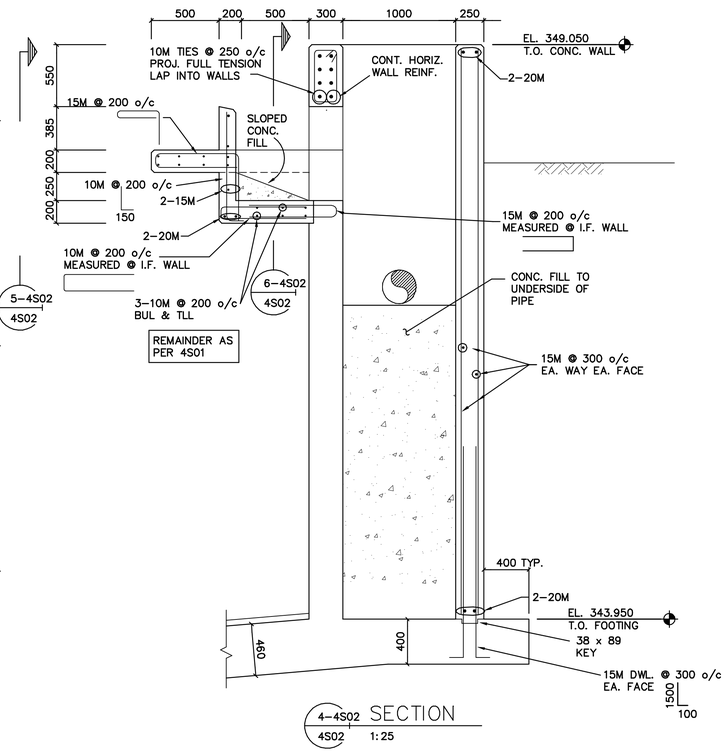


1-4S01 / 4S02 SECTION 1:100



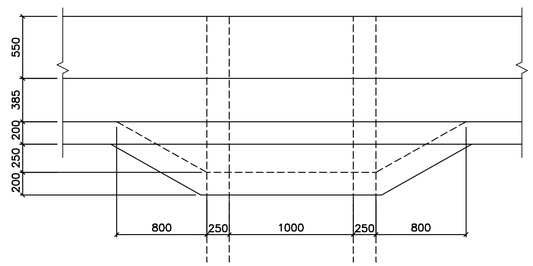


3-4S01 / 4S02 PART. PLAN 1:25

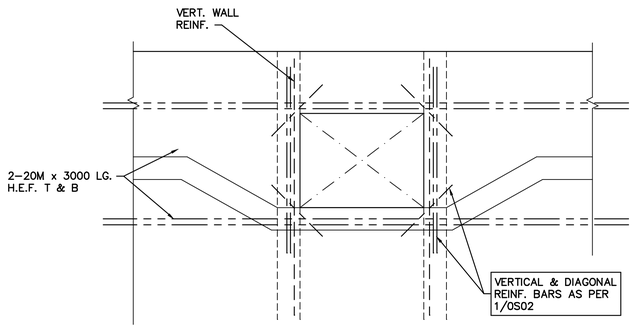


4-4S02 / 4S02 SECTION 1:25

TYP. WALL
2-4S01 / 4S02 SECTION 1:25



5-4S02 / 4S02 SECTION 1:25



6-4S02 / 4S02 SECTION 1:25

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
5	JAN. 98	BWP	RECORD DRAWING	GDH					
4	5FEB 97	BWP	APPROVED FOR CONSTRUCTION, C.O. 1	GDH					
3	4FEB 97	BWP	ISSUED FOR BUILDING PERMIT.	GDH					
2	DEC. 96	BWP	ISSUED FOR CONSTRUCTION	GDH					
1	JULY 96	BWP	ISSUED FOR G.M.P. TENDER	GDH					

Design GDH
Drawn BWP
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 4
SECONDARY CLARIFIERS
SECTIONS AND DETAILS

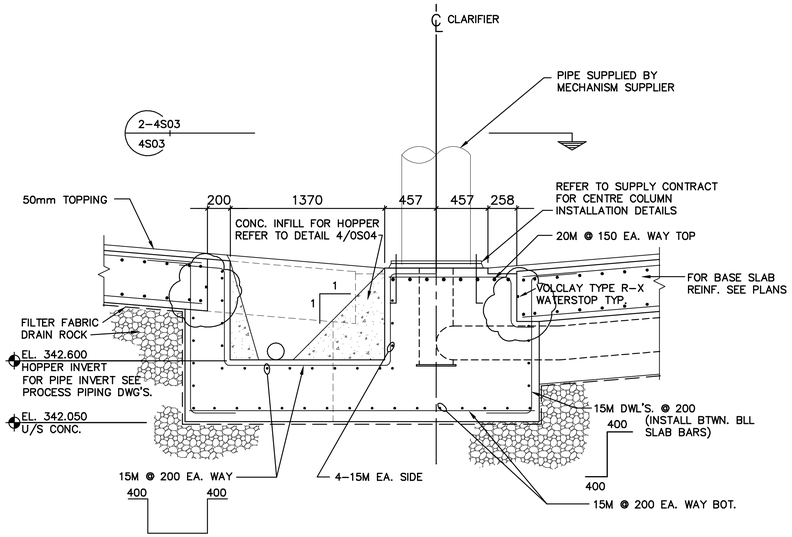
Reid Crowther 39844

Scale AS NOTED
Date JUNE 1996
City File
Sheet 2 of 4
Drawing 4S02

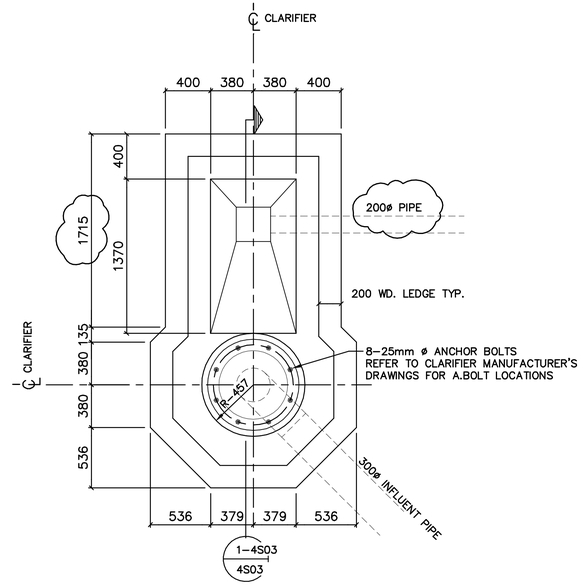
SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 5

SWWTPA1 H:\PROJECTS\DW\03984400\02A\123A\STRUCT\A\8444S02 Plotted 1998-05-28 DESIGN ENG\TECH DESIGN COORD.

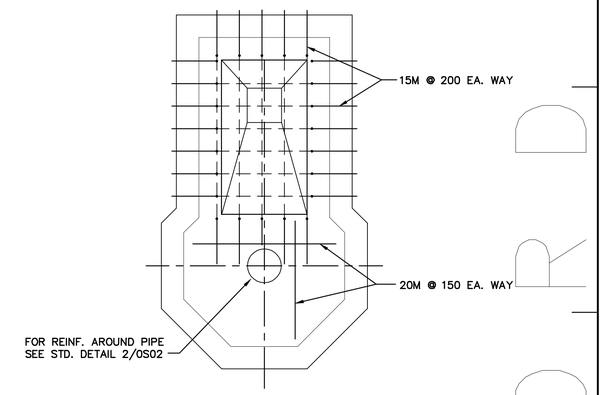
RECORD



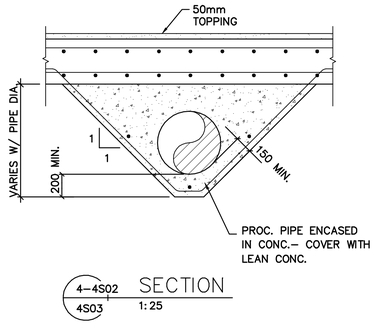
1-4S03 / 4S03 SECTION 1:25



CENTRE PEDESTAL AND HOPPER
2-4S03 / 4S03 PLAN 1:25



CENTRE PEDESTAL TOP REINFORCING
3-4S03 / 4S03 SECTION 1:25



4-4S02 / 4S03 SECTION 1:25

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
6	JAN. 98	BWP	RECORD DRAWING	GDH					
5	5FEB 97	BWP	APPROVED FOR CONSTRUCTION, C.O. 1	GDH					
4	4FEB 97	BWP	ISSUED FOR BUILDING PERMIT.	GDH					
3	20DEC96	BWP	DIMENSION REVISION	KJW					
2	DEC. 96	BWP	ISSUED FOR CONSTRUCTION	GDH					
1	JULY 96	BWP	ISSUED FOR G.M.P. TENDER	GDH					

Design GDH
Drawn BWP
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 4

Reid Crowther 39844

SECONDARY CLARIFIERS
SECTIONS AND DETAILS

Scale AS NOTED
Date JUNE 1996
City File
Sheet 3 of 4
Drawing 4S03

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 6

DESIGN COORD. | DESIGN ENG\TECH

SWWTPA1 H:\PROJECTS\DWG\03864400\02A\123A\STRUCT\A1844S03 Plotted 1998-05-28

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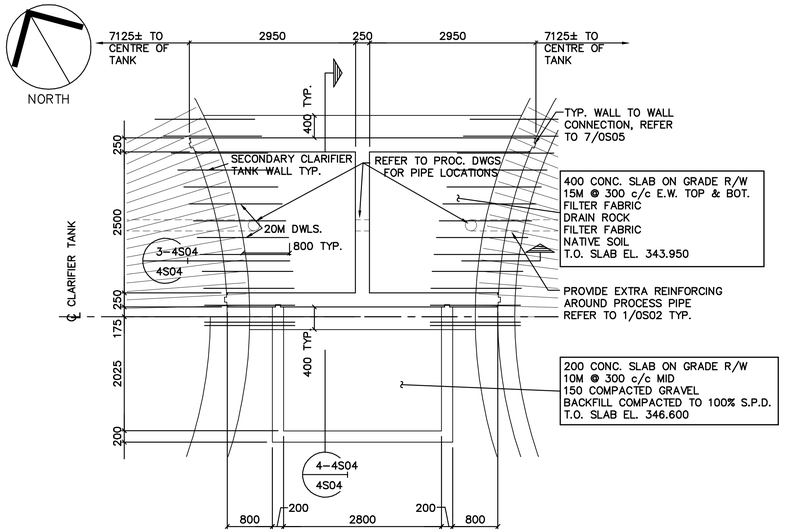
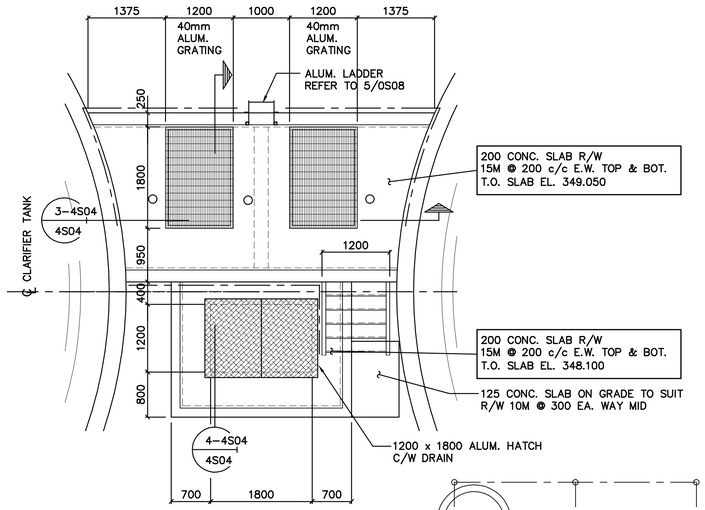
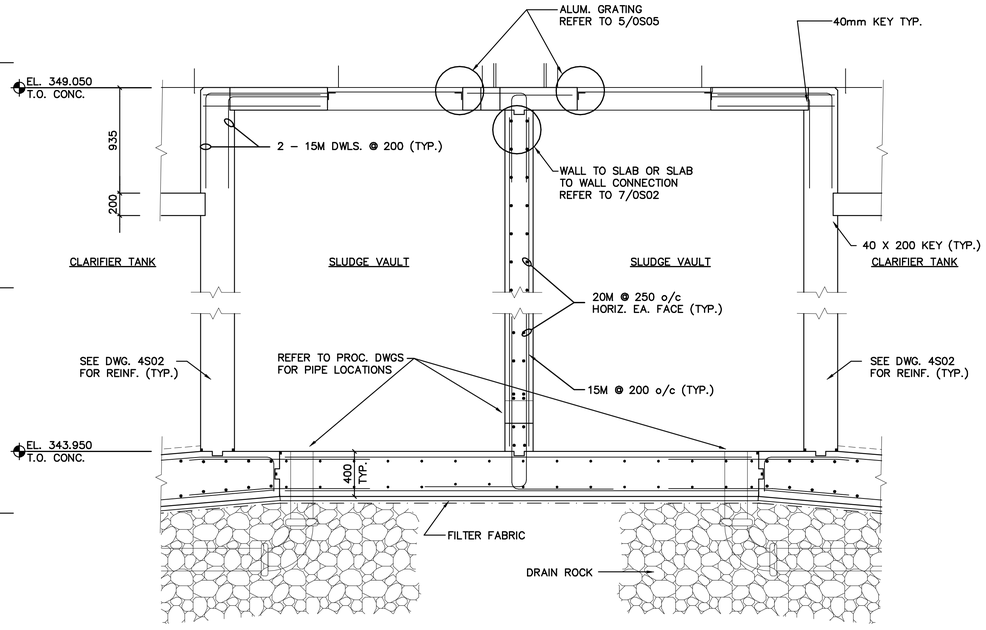


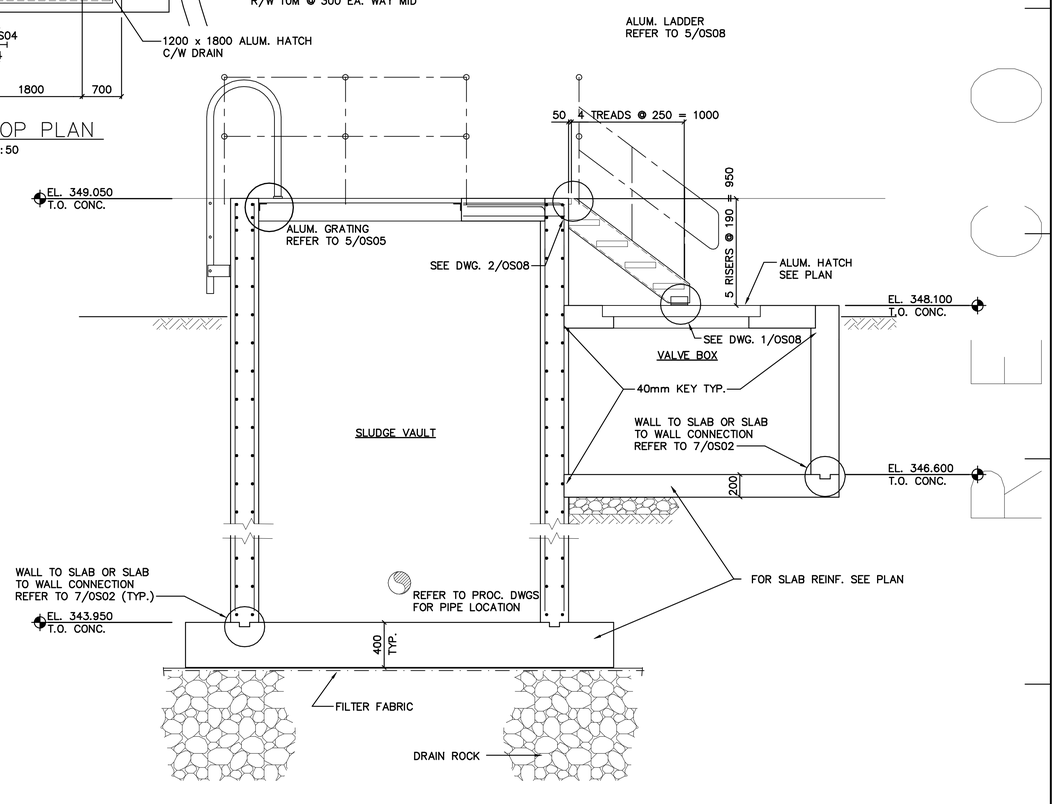
1-4S01 FOUNDATION PLAN
4S04 1:50



2-4S01 TOP PLAN
4S04 1:50



3-4S04 SECTION
4S04 1:25



4-4S04 SECTION
4S04 1:25

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
5	JAN. 98	BWP	RECORD DRAWING	GDH					
4	5FEB 97	BWP	APPROVED FOR CONSTRUCTION, C.O.1	GDH					
3	4FEB 97	BWP	ISSUED FOR BUILDING PERMIT	GDH					
2	DEC. 96	BWP	ISSUED FOR CONSTRUCTION	GDH					
1	JULY 96	BWP	ISSUED FOR G.M.P. TENDER	GDH					

Design GDH
Drawn BWP
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 4
SLUDGE VAULTS
PLANS & SECTIONS

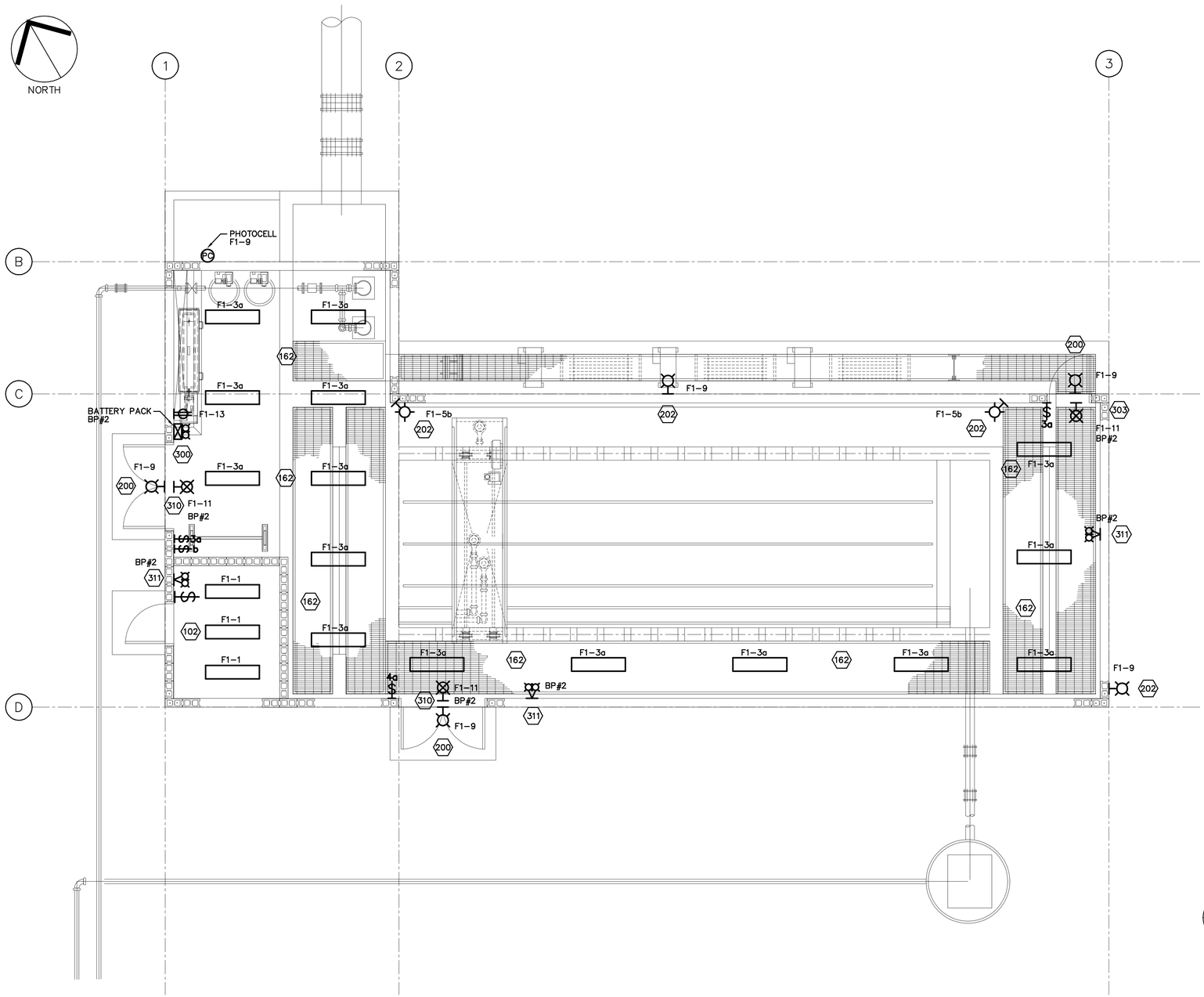
Reid Crowther
39844

Scale AS NOTED
Date JULY 1996
City File
Sheet 4 of 4
Drawing 4S04

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 5

DESIGN ENG\TECH | DESIGN COORD. | SWWTPA1 H:\PROJECTS\DWG\0396400\02A\123A\STRUCT\4S04.DGN Plotted 1998-05-28

AS CONSTRUCTED



1 / 5E01 FILTER/UV BLDG. – LIGHTING

SCALE 1 : 50

DESIGN COORD. | DESIGN ENG\TECH

H:\PROJECTS\SWX\03884400\02A\12SH\ELEC\8445E01 Plotted: 1998-07-17

SWWTPA1

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
4	26JUN98	KM	RECORD DRAWING	KJW					
3	38MAY97	KM	APPROVED FOR CONSTRUCTION, CO 4	KHM					
2	09APR97	KM	ISSUED FOR CONSTRUCTION (DUCT SCHEDULE)	KHM					
1	JULY 96	KM	ISSUED FOR GMP TENDER	KHM					

Design KM
Drawn KM
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT

AREA 5 – FILTER/UV BUILDING

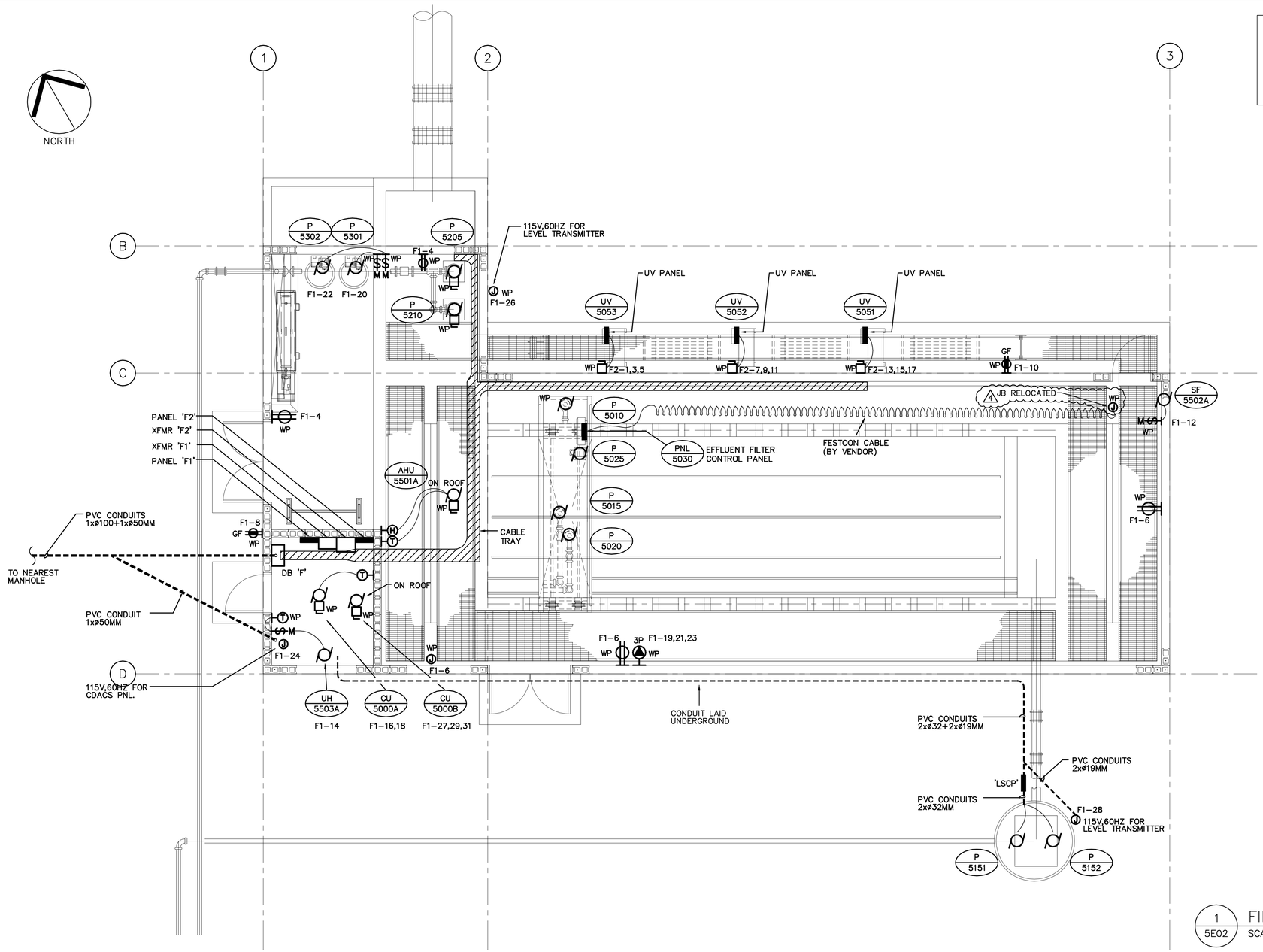
LIGHTING

Reid Crowther 39844

Scale AS SHOWN
Date JULY 1996
City File
Sheet of
Drawing 5E01

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 4

This as-constructed information was not prepared by the Corporation of the District of Summerland and therefore there is no guarantee of its accuracy. It is the recipient's and user's responsibility to confirm the accuracy of this as-constructed information before proceeding with any work that may be affected by this as-constructed information.



1 / 5E02 FILTER/UV BLDG. – POWER
SCALE 1 : 50

RECORD

THESE RECORD DRAWINGS HAVE BEEN PREPARED ON THE BASIS OF INFORMATION COMPILED AND FURNISHED BY OTHERS. AS A RESULT THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT.

No.	Date	By	Revision	Chkd
4	26JUN98	KM	RECORD DRAWING	KJW
3	38MAY97	KM	APPROVED FOR CONSTRUCTION, CO 4	KHM
2	09APR97	KM	ISSUED FOR CONSTRUCTION (DUCT SCHEDULE)	KHM
1	JULY 96	KM	ISSUED FOR GMP TENDER	KHM

Design	KM
Drawn	KM
Checked	
Submitted	
Approved	

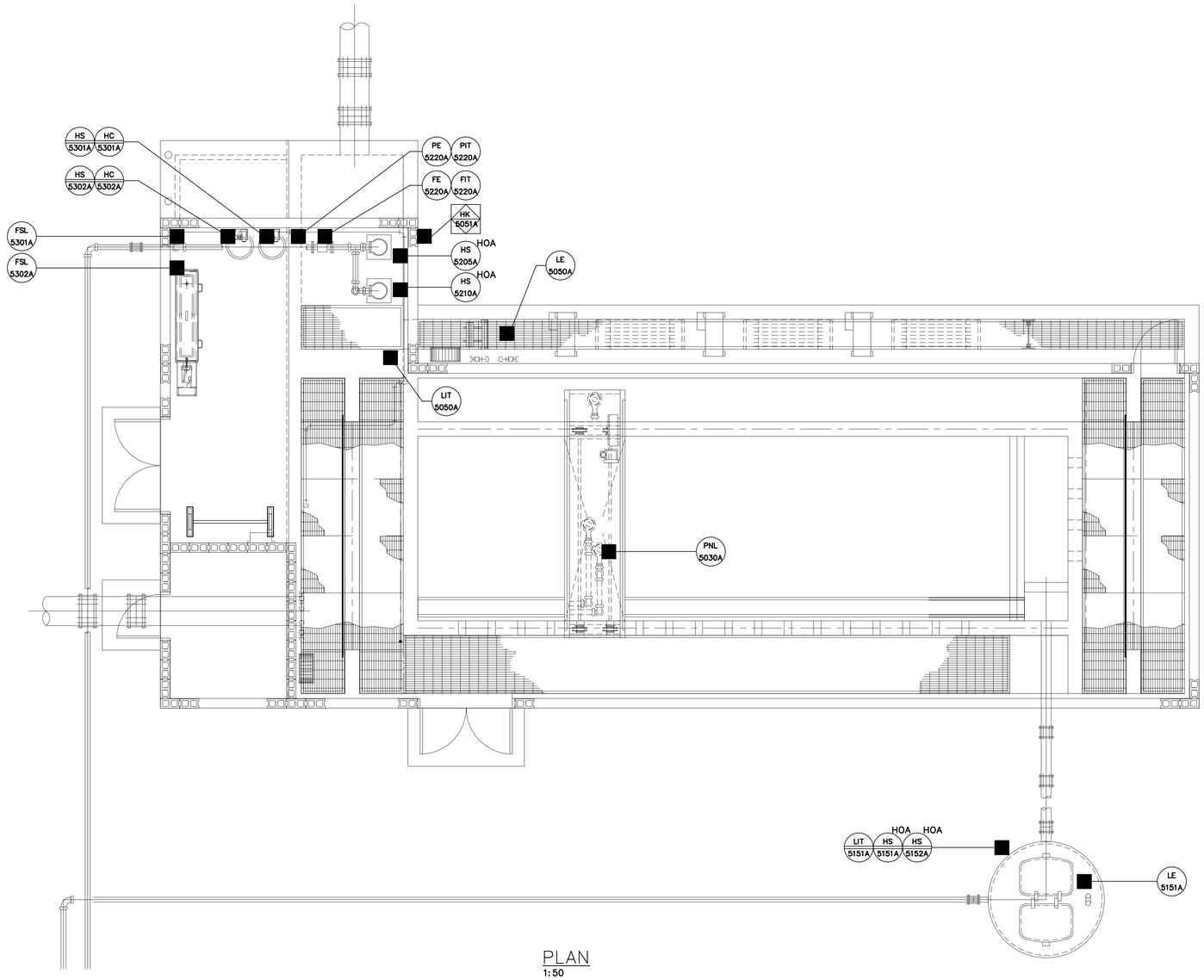
THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 5 – FILTER/UV BUILDIG
POWER

Reid Crowther 39844

Scale	AS SHOWN
Date	JULY 1996
City File	
Sheet	of
Drawing	5E02

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 4

DESIGN ENG\TECH | DESIGN COORD. | H:\PROJECTS\ENV\03884400\02A\1234\ELEC\8445E02 Plotted 1998-07-17 | SWWTP1



PLAN
1:50

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
5	JUNE 98	KM	RECORD DRAWING	KJW					
4	29MAY97	KJW	APPROVED FOR CONSTRUCTION, C.O. 4	CGL					
3	5MAR97	KJW	ISSUED FOR CONSTRUCTION	CGL					
2	9JAN97	KJW	WORK IN PROGRESS V.1 (NO CHANGES)	KAC					
1	JULY 96	KJW	ISSUED FOR GMP TENDER	CGL					

Design BLC
Drawn GDS/KJW
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 5 – FILTER/UV DISINFECTION
INSTRUMENTATION LAYOUT

Reid Crowther
39844

Scale AS NOTED
Date JULY 1996
City File
Sheet 1 of 1
Drawing 5I01

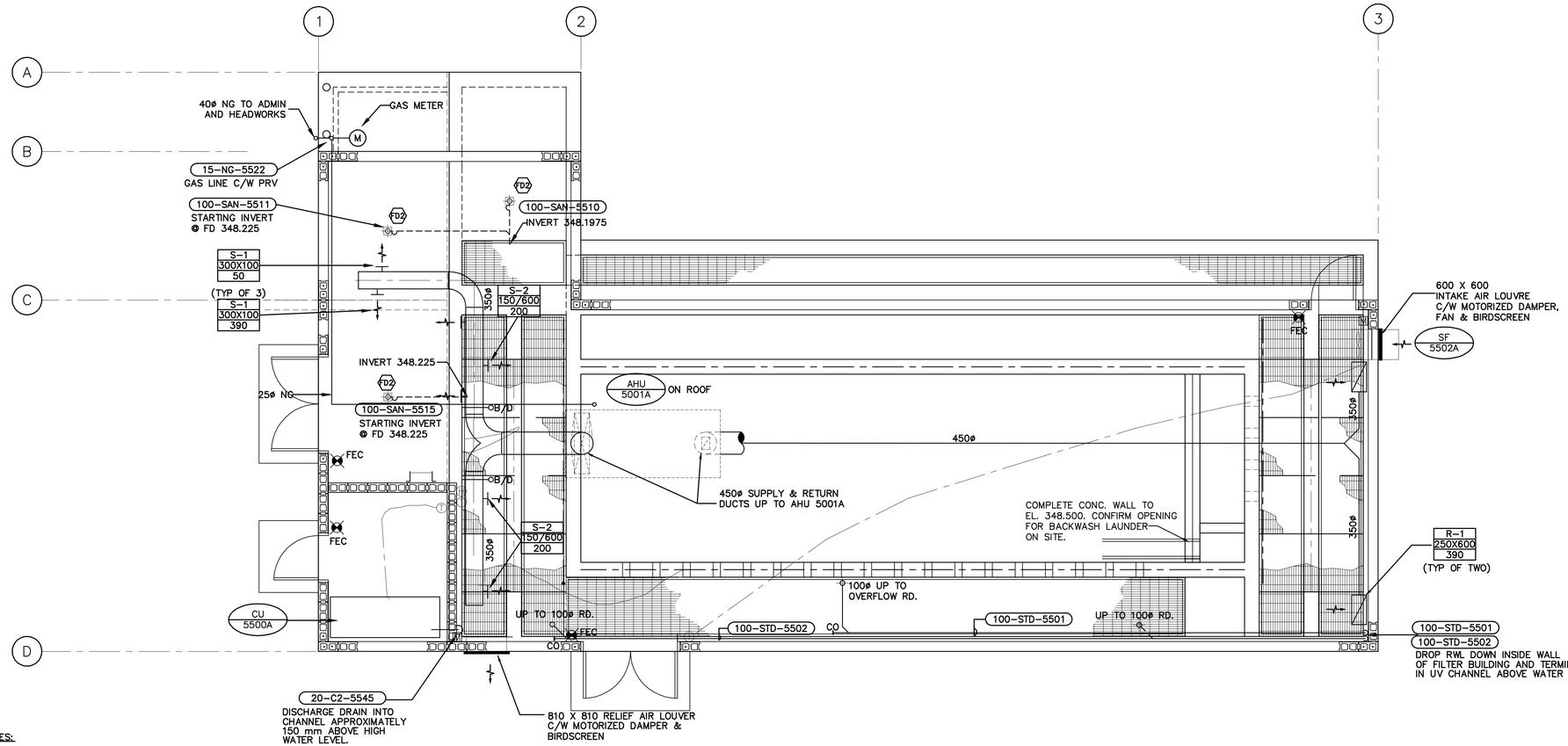
SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 5

DESIGN COORD. | DESIGN ENG\TECH

H:\PROJECTS\SWV\SUMMERLAND\39844\005\12SA\LEGEND\39844001 Plotted: 1998-07-17

SWWTPA1

RECORD



NOTES:

1. PROVIDE & INSTALL TRAPS & VENTING AS PER PLUMBING CODES & AUTHORITY HAVING JURISDICTION.
2. INSTALL CU 5500A AS PER MANUFACTORS SPEC. & REQUIRMENTS. ALLOW A MIN. 900mm FOR FILTER ACCESS & REMOVAL.
3. GAS LINE SIZED ON SCHEDULE 40 PIPE FOR A PRESSURE DROP OF 34Kpa (5psig) @ 17Kpa (2.5psig) PRESSURE DROP.
4. COORDINATE MECHANICAL EQUIPMENT / PIPING LOCATIONS ON SITE WITH OTHER TRADES.

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
4	20 MAY 98	GDB	RECORD DRAWING	KJW					
3	2JUNE97	JFK	APPROVED FOR CONSTRUCTION, C.O. 4	KJW					
2	25MAR97	JFK	ISSUED FOR CONSTRUCTION	KJW					
1	JULY 96	AGT	ISSUED FOR GMP TENDER						

Design AGT
Drawn AGT/JFK
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 5
Reid Crowther 39844

FILTER / U.V. BUILDING
PLUMBING AND HVAC

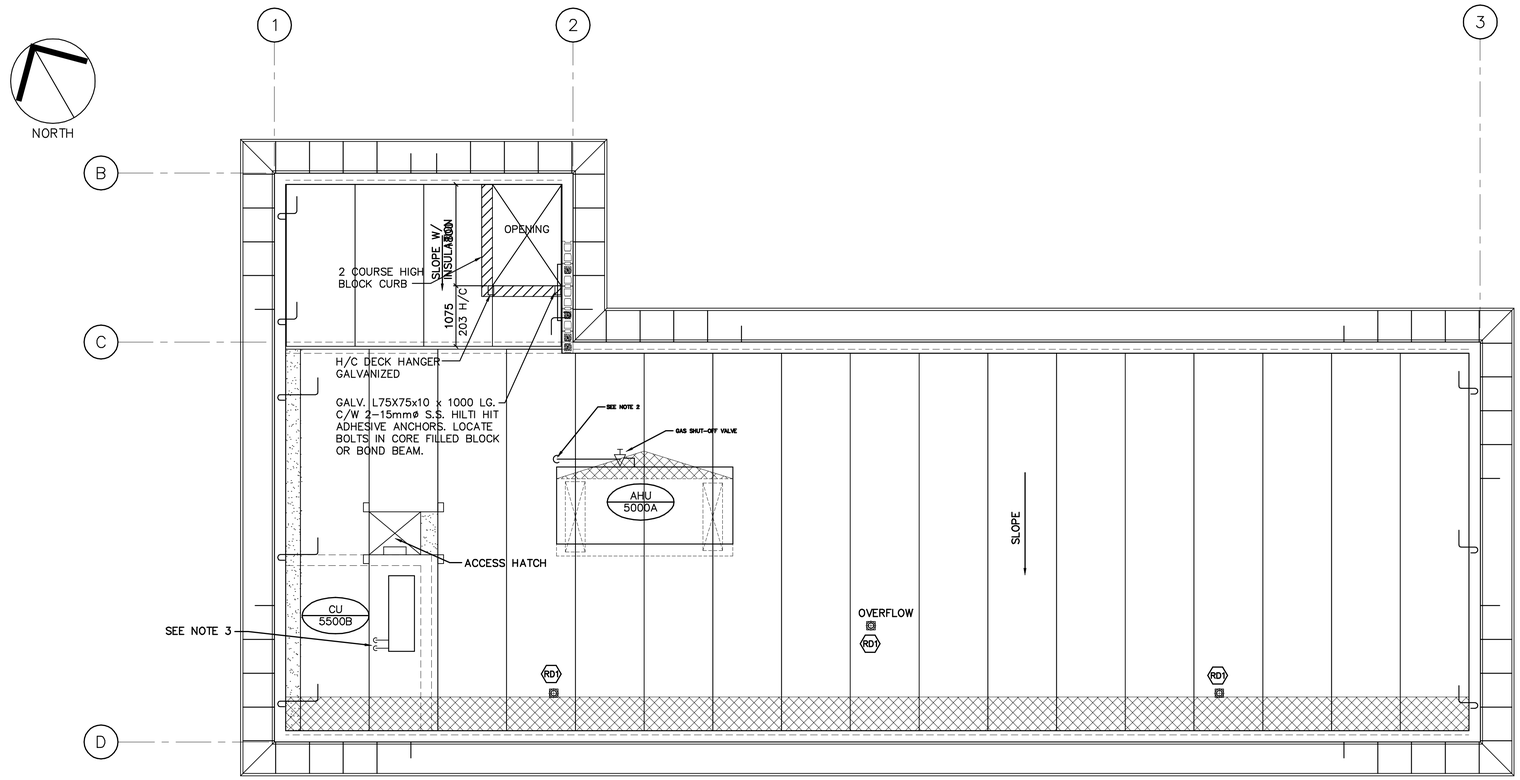
Scale 1:50
Date JULY 1996
City File
Sheet 1 of 2
Drawing 5M01

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 4

RECORD

DESIGN COORD. | DESIGN ENG\TECH

SWWTP-A1 H:\PROJECTS\SW\03884400\02A\1234\HVAC\SHEETS\5M01 Plotted 1998-07-16



GENERAL NOTES:

1. RUN GAS LINE ON 100X100X300 PRESSURE TREATED WOOD SLEEPERS @ 2400mm C/C. FASTEN GAS LINE TO SLEEPERS WITH CLAMPS.

2. 20ø GAS LINE DN FOR CONTINUATION SEE DWG 5M01.

1-5M02 / 5M02 ROOF PLAN
1:50

RECORD

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3	2JUNE97	JFK	APPROVED FOR CONSTRUCTION, C.O. 4	KJW					
2	25MAR97	JFK	ISSUED FOR CONSTRUCTION	KJW					
1	JULY 96	AGT	ISSUED FOR GMP TENDER						

Design AGT
Drawn AGT/JFK
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 5
FILTER / U.V. BUILDING
ROOF PLAN MECHANICAL LAYOUT
SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO 4

Reid Crowther 39844

Scale 1:50
Date JULY 1996
City File
Sheet 2 of 2
Drawing 5M02

DESIGN ENG\TECH
DESIGN COORD.
SWWTP A1 H:\PROJECTS\ENV\03884400\02A\123A\HVAC\$\0844SM02 Plotted 1998-07-16

SECONDARY EFFLUENT
4P01 — 750-SE-5000
FROM SECONDARY CLARIFIERS

B/WASH LOCKOUT XS 5030A
COMMON MOTOR TRIPPED UA 5030A
LAH 5030A
LAL 5030A
BACKWASHING XI 5030A
YI 5030A

START BACKWASH HS 5030A
BACKWASH PUMP HS 5010A HOA
WASHWATER PUMP HS 5015A HOA
SKIMMER PUMP HS 5020A HOA
TRAVELLING BRIDGE HS 5025A HOA

IL 5010B OFF
IL 5010C RUNNING
IL 5015B OFF
IL 5015C RUNNING
IL 5020B OFF
IL 5020C RUNNING
IL 5025B OFF
IL 5025C RUNNING
IL 5010A TROUBLE
IL 5015A TROUBLE
IL 5020A TROUBLE
IL 5025A TROUBLE

EFFLUENT FILTER CONTROL PANEL
(VENDOR SUPPLIED)
PNL 5030

TO POSITION SWITCHES & SENSORS (VENDOR PACKAGE)

P 5020 SKIMMER PUMP
TBR 5025 TRAVELLING BRIDGE
BACKWASH LAUNDER
W-5050A
W-5050B
1000-SE-5050
FILTER EFFLUENT 5P02 TO DISINFECTION
P 5015 WASHWATER PUMP
P 5010 BACKWASH PUMP
FLT 5005 FILTER 1

YI 5152A
YI 5151A
UA 5151A
LAHH 5151A
VENDOR SUPPLIED CONTROL PANEL
LT 5151A
LE 5151A

FILTER SCUM\BACKWASH 1P01 TO HEADWORKS
150-FBW-1016
HOA HS 5152A
MM 5152A
VBA-5152A
VC-5152A
HOA HS 5151A
MM 5151A
VBA-5151A
VC-5151A
200-FBW-5100

P 5152 BACKWASH PUMP 2
P 5151 BACKWASH PUMP 1
TNK 5105 BACKWASH SUMP

13-CLS-5305
HYPOCHLORITE 5P02 FROM METERING PUMP

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
5	20 MAY 98	GDB	RECORD DRAWING	KJW					
4	28MAY97	KJW	APPROVED FOR CONSTRUCTION, C.O. 4	CGL					
3	28FEB97	KJW	ISSUED FOR CONSTRUCTION	CGL					
2	9JAN97	KJW	WORK IN PROGRESS V.1 (NO CHANGES)	KAC					
1	JULY 96	KJW	ISSUED FOR GMP TENDER	BLC					

Design CGL/BLC
Drawn GDS/KJW
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 5 – FILTRATION AND DISINFECTION
FILTER 1
PIPING AND INSTRUMENTATION DIAGRAM

Reid Crowther 39844

Scale AS NOTED
Date MAY 1996
City File
Sheet of
Drawing 5P01

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 5

DESIGN ENG\TECH
DESIGN COORD.
Plotted 1998-05-28
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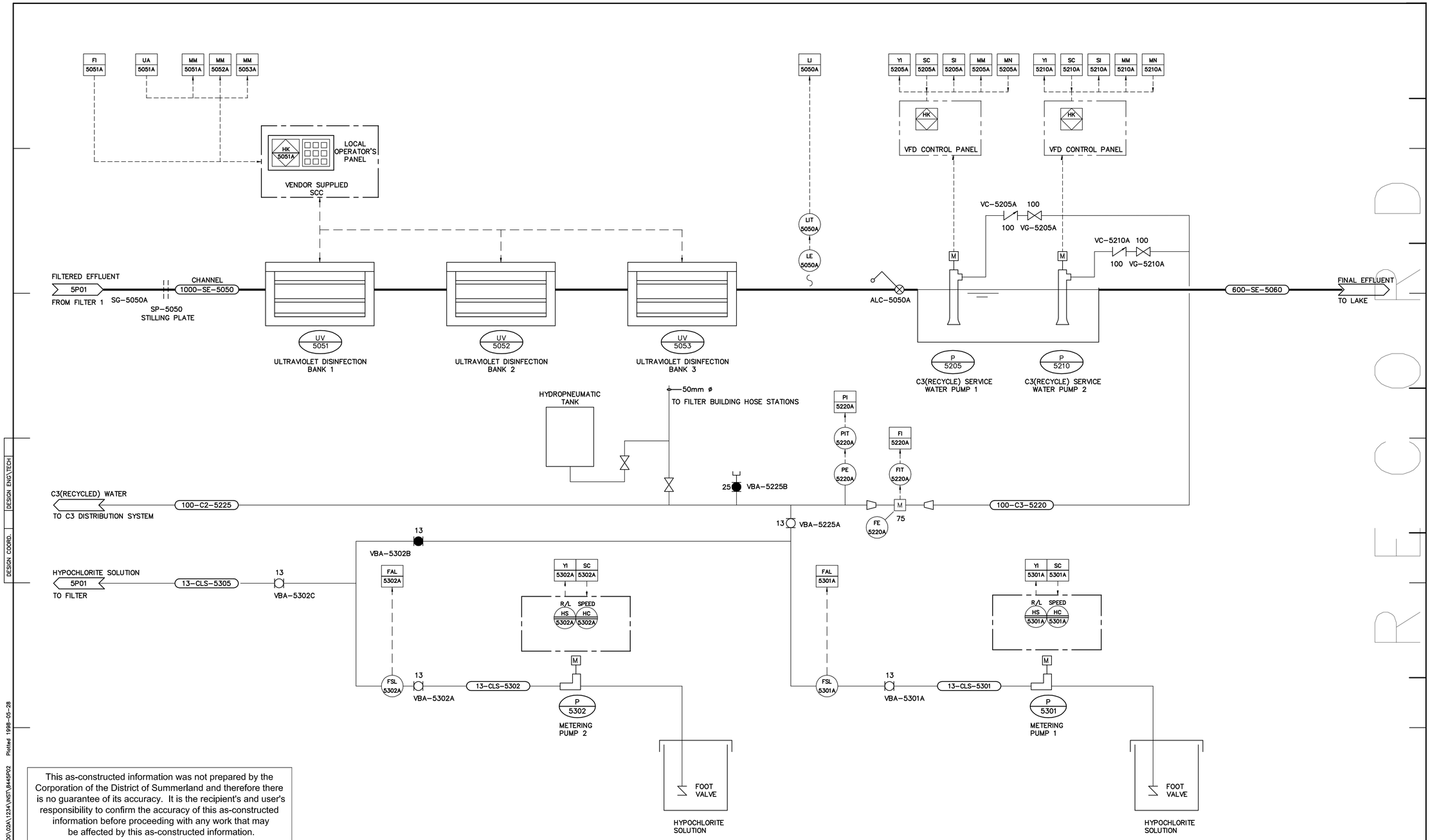

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3	28FEB97	KJW	ISSUED FOR CONSTRUCTION	CGL					
2	9JAN97	KJW	WORK IN PROGRESS V.1 (MAG METERS)	KAC					
1	JULY 96	KJW	ISSUED FOR GMP TENDER	BLC					

Design CGL/BLC
Drawn GDS/KJW
Checked
Submitted
Approved

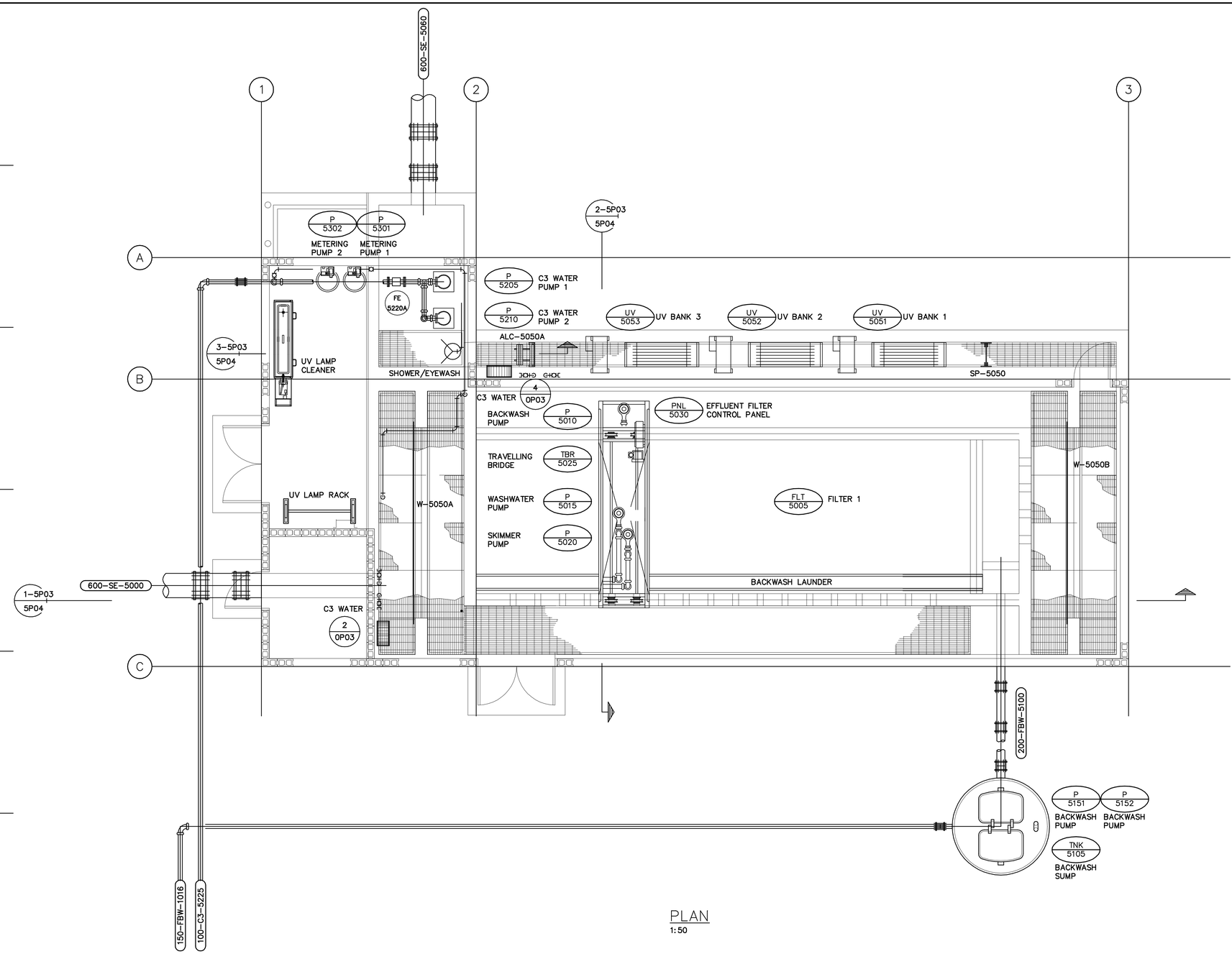
THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 5 – FILTRATION AND DISINFECTION
UV DISINFECTION AND C3 PUMPS
PIPING AND INSTRUMENTATION DIAGRAM

Reid Crowther 39844

Scale AS NOTED
Date MAY 1996
City File
Sheet of
Drawing 5P02

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 5

DESIGN ENG\TECH
DESIGN COORD.
Plotted 1998-05-28
SWWTPA1 H:\PROJECTS\ENV\039844\00\02A\123A\WST\8445P02



PLAN
1:50

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5	20 MAY 98	GDB	RECORD DRAWING	KJW					
4	28MAY97	KJW	APPROVED FOR CONSTRUCTION	CGL					
3	5MAR97	KJW	ISSUED FOR CONSTRUCTION	CGL					
2	20NOV96	KJW	WORK IN PROGRESS (FLOOR DRAINS)	BWP					
1	JULY 96	KJW	ISSUED FOR GMP TENDER	CGL					

Design CGL/KJW
Drawn KJW
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 5 – FILTER/UV DISINFECTION
GENERAL ARRANGEMENT

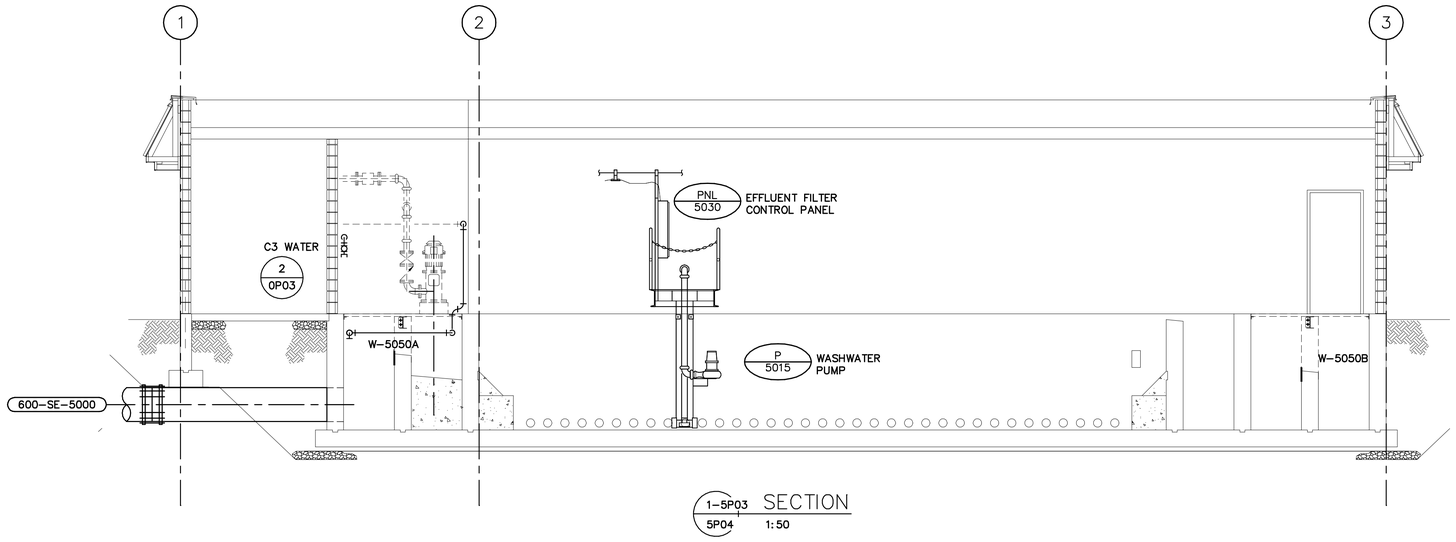
Reid Crowther 39844

Scale AS NOTED
Date JUNE 1996
City File
Sheet of
Drawing 5P03

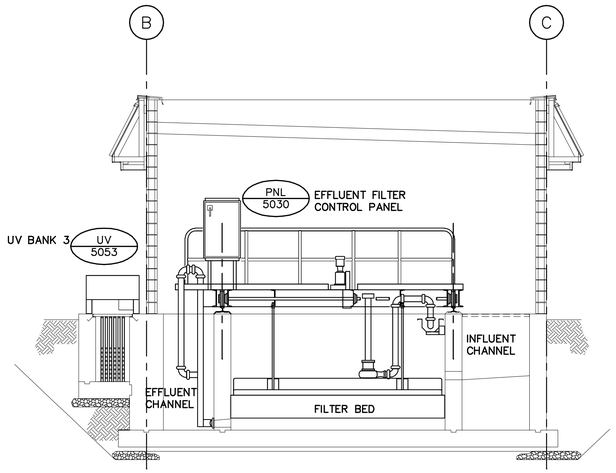
SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 5

RECORD

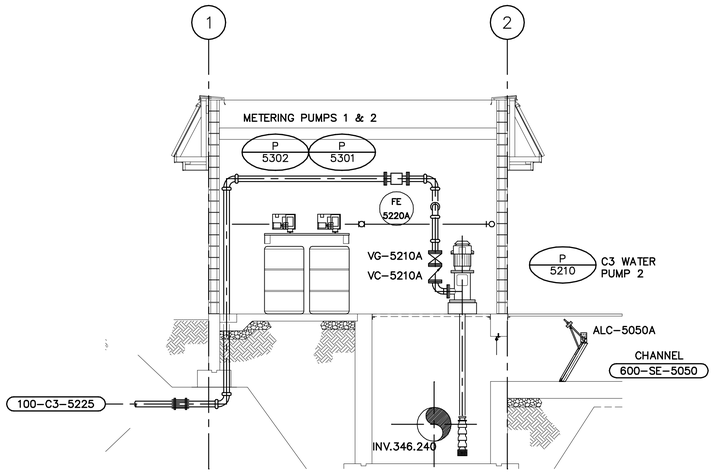
DESIGN ENG\TECH
DESIGN COORD.
SWWTP.A1
H:\PROJECTS\SWV\0398\4400\02A\125A\PROCS\SHA5P03 Plotted 1998-07-14



1-5P03 / 5P04 SECTION 1:50



2-5P03 / 5P04 SECTION 1:50



3-5P03 / 5P04 SECTION 1:50

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2	5MAR97	KJW	ISSUED FOR CONSTRUCTION	CGL					
1	JULY 96	KJW	ISSUED FOR GMP TENDER	CGL					

Design CGL/KJW
Drawn KJW
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 5 – FILTER/UV DISINFECTION

Reid Crowther 39844

SECTIONS AND DETAILS

Scale AS NOTED
Date JUNE 1996
City File
Sheet of
Drawing 5P04

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO

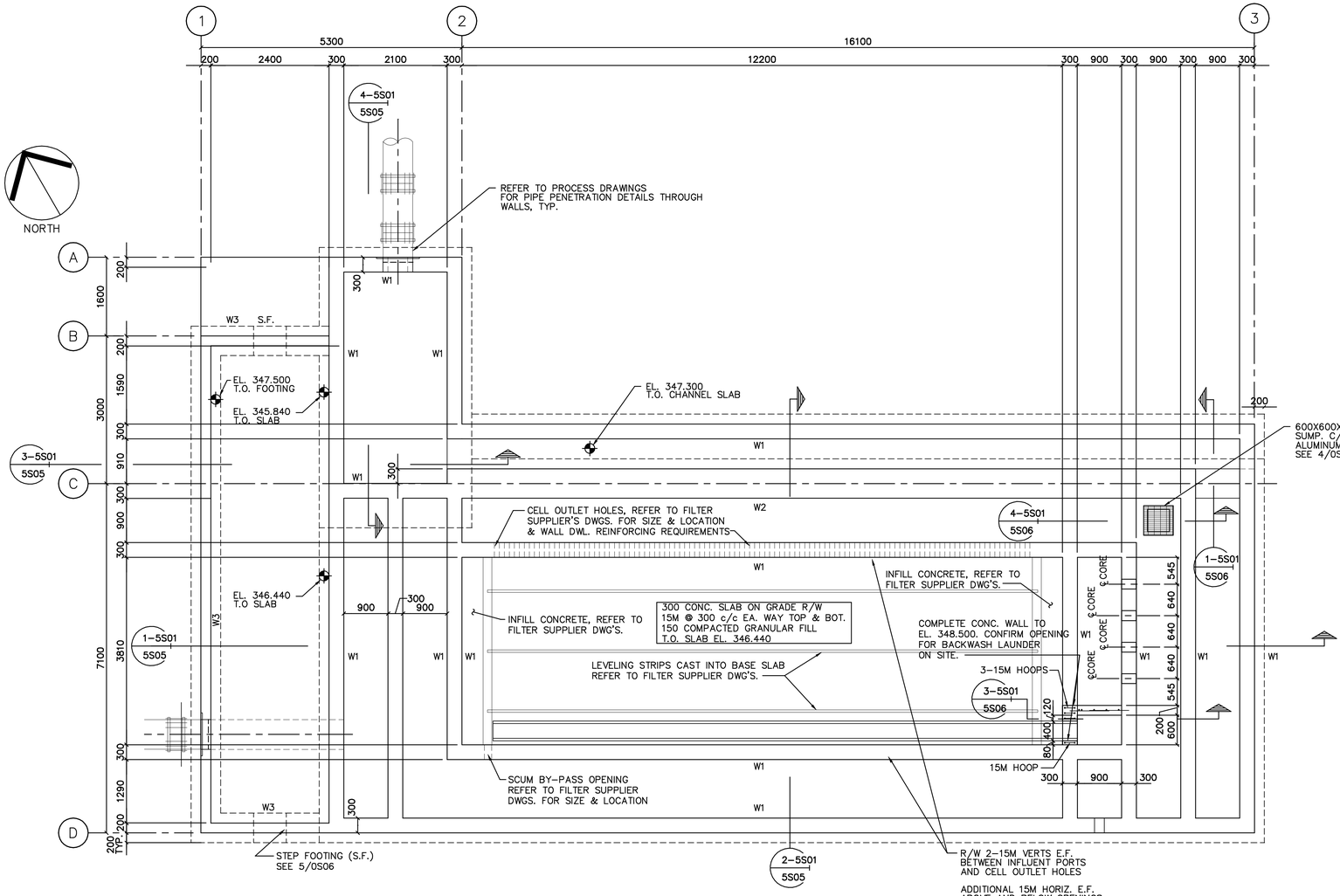
4

DESIGN COORD. | DESIGN ENG\TECH

H:\PROJECTS\SWV\03884400\02A\12SA\PROC\SWA5P04 Plotted: 1998-07-14

SWWTPA1

RECORD



CONC. WALL SCHEDULE

MARK No.	THICKNESS (mm)	REINFORCING	REMARKS
W1	300	VERT. 15M. @ 250 c/c EA. FACE HORZ. 10M @ 250 c/c EA. FACE 10M @ 750 c/c TOP	10M @ 750
W2	600	VERT. 15M. @ 250 c/c EA. FACE HORZ. 10M @ 250 c/c EA. FACE 10M @ 750 c/c TOP	10M @ 750
W3	200	15M DWLS @ 400 15M MASONRY DWLS @ 800 1200 LG PROJ 600 4 – 10M HORIZ. FOOTING – 600 x 200 R/W 4–10M LONG.	

NOTES

1. ALL PROCESS, MECHANICAL AND ELECTRICAL PENETRATIONS THROUGH SLABS AND WALLS MAY NOT BE SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO PROCESS, MECHANICAL AND ELECTRICAL DRAWINGS FOR SIZE AND LOCATION OF OPENINGS.
2. CONTRACTOR TO CONFIRM PIPE, DUCT AND CABLE TRAY OPENING SIZES WITH MECHANICAL AND ELECTRICAL CONTRACTORS.

FOUNDATION PLAN
1:50

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No.	Date	By	Revision	Chkd
4	FEB. 98	BWP	RECORD DRAWING	GDH
3	30MAY97	BWP	APPROVED FOR CONSTRUCTION, C.O. 4	GDH
2	20MAR97	BWP	ISSUED FOR CONSTRUCTION	GDH
1	JULY 96	BWP	ISSUED FOR G.M.P. TENDER	GDH

Design GDH
Drawn BWP
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 5

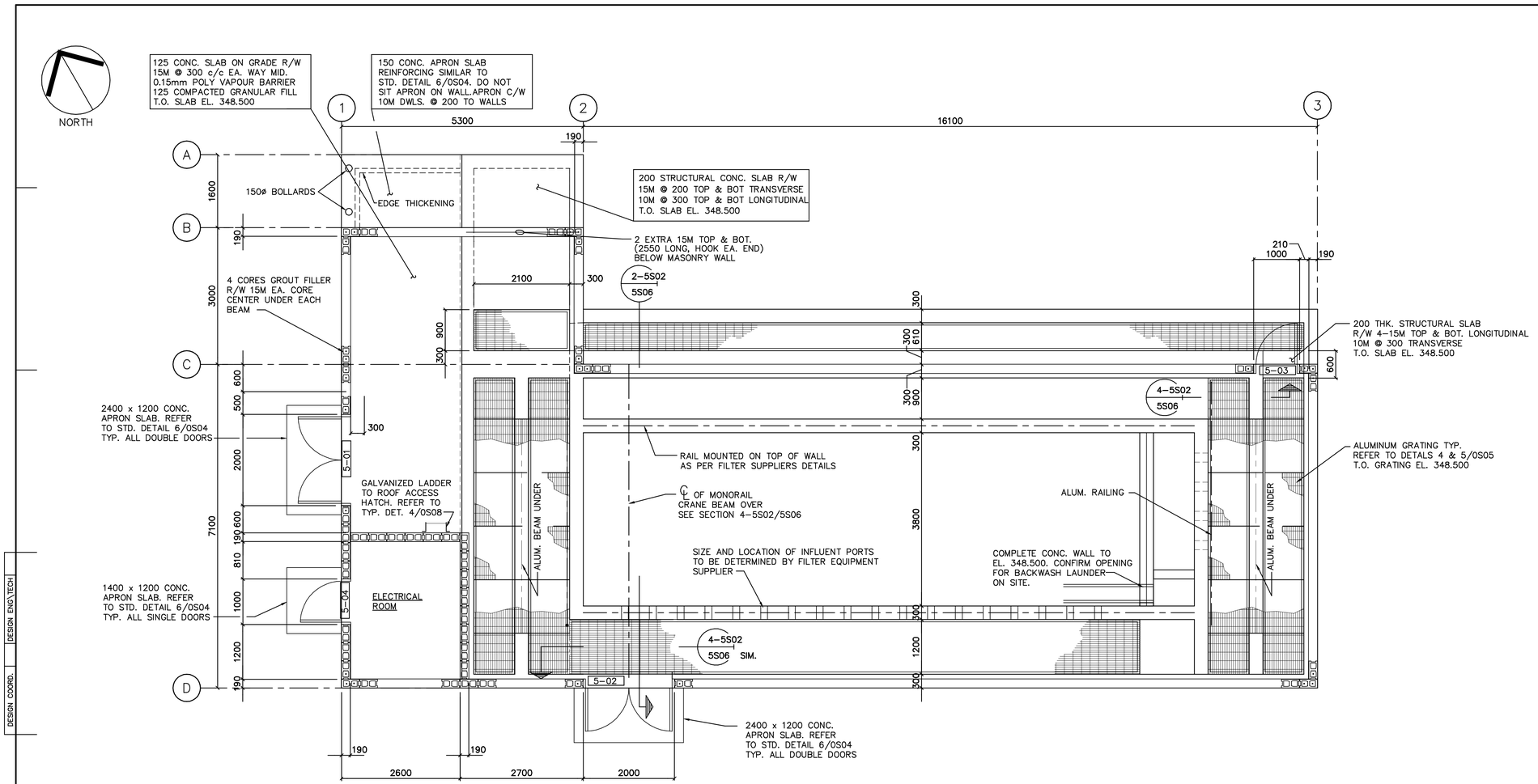
Reid Crowther 39844

FILTER / U.V. BUILDING
FOUNDATION PLAN

Scale 1:50
Date JUNE 1996
City File
Sheet 1 of 6
Drawing 5S01

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 4

SWTPA1 H:\PROJECTS\DW\0384400\02A\1234\STRUCT\S\8445S01 Plotted 1998-05-28
DESIGN COORD.
DESIGN ENG\TECH



MAIN FLOOR PLAN
1:50

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2	20MAR97	BWP	ISSUED FOR CONSTRUCTION	GDH					
1	JULY 96	BWP	ISSUED FOR G.M.P. TENDER	GDH					

Design GDH
Drawn BWP
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 5

Reid Crowther
39844

FILTER / U.V. BUILDING
FLOOR PLAN

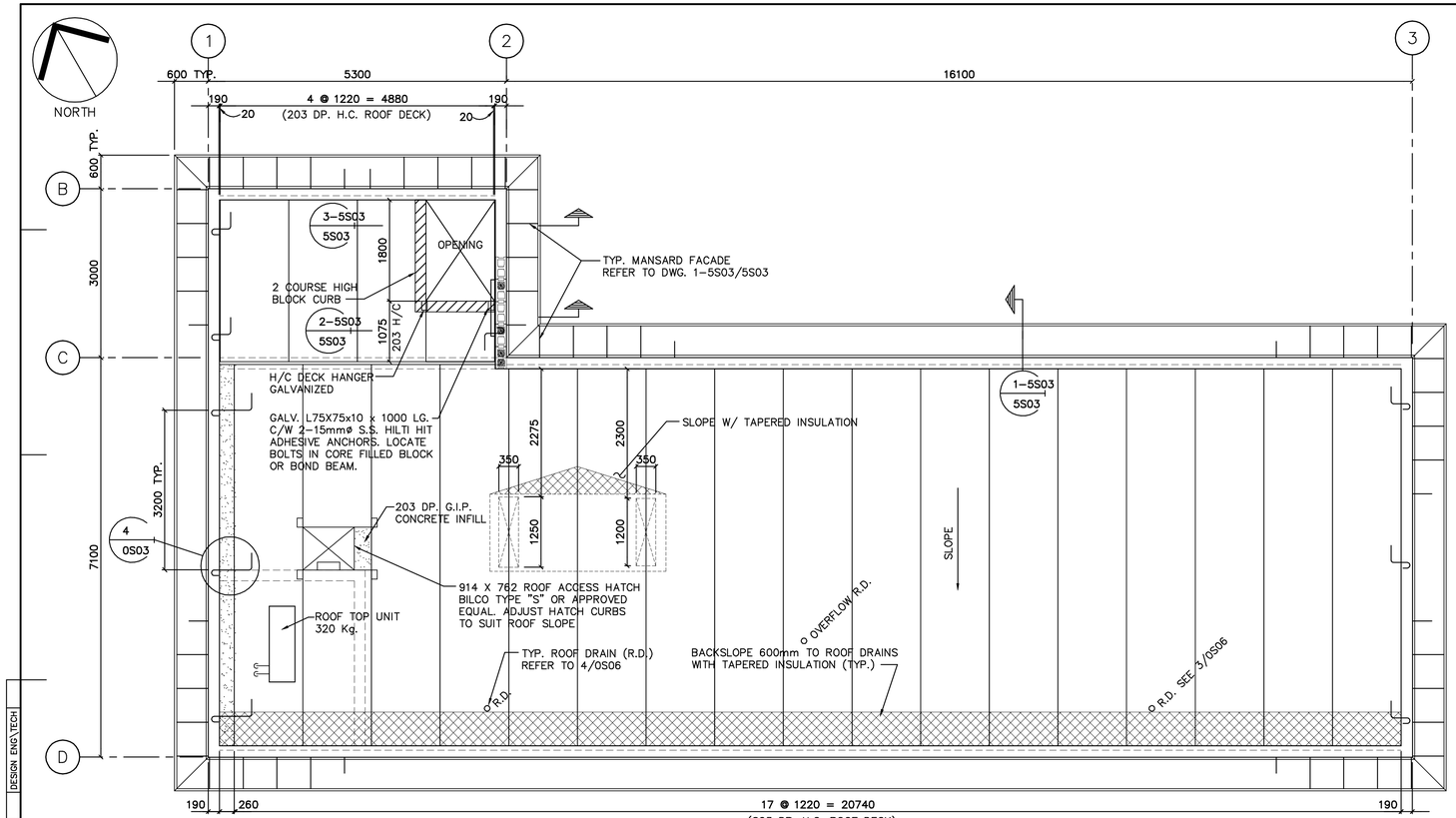
Scale 1:50
Date JUNE 1996
City File
Sheet 2 of 6
Drawing 5S02

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 4

DESIGN ENG'R | DESIGN COORD. | DRAWN | CHECKED | SUBMITTED | APPROVED

SWTP7A1 H:\PROJECTS\ENV\03884400\02A\123A\STRUCT\S\0445502 Plotted 1998-05-28

RECORD



ROOF PLAN
1:50

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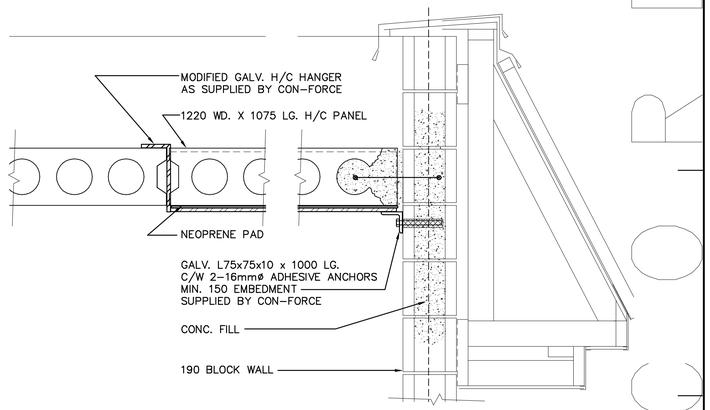
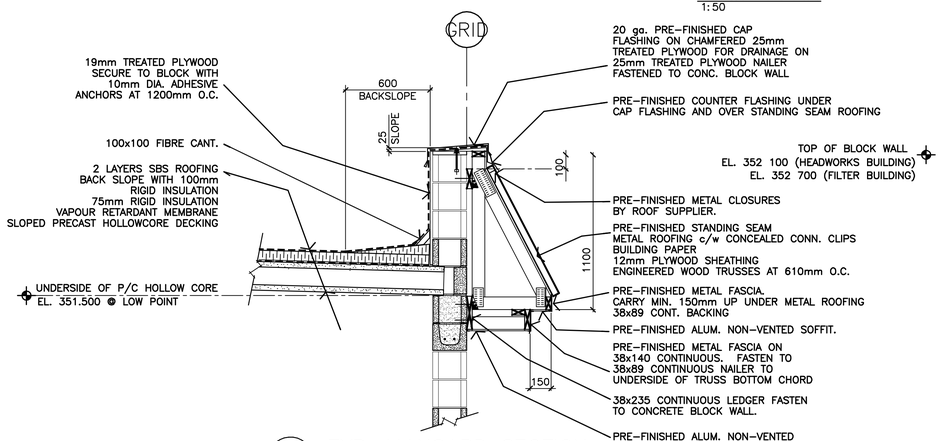
ROOF LOADING
SUPERIMPOSED DEAD LOAD = 0.8 kPa.
LIVE LOAD (SNOW) = 1.54 kPa. PLUS BUILT-UP SNOW AS PER N.B.C.

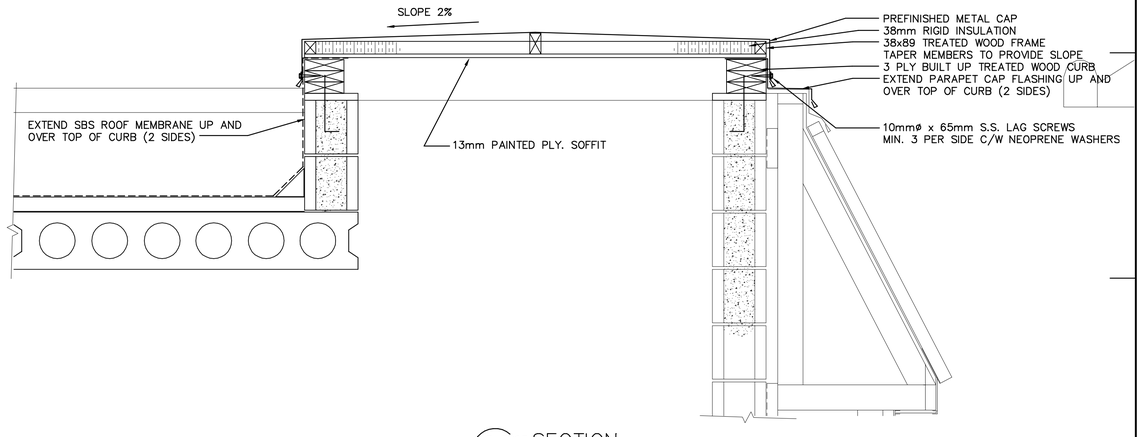
NOTE:
REFER TO MECHANICAL DRAWINGS AND SPECS. FOR SIZE, LOCATION & WEIGHT OF ROOF TOP EQUIPMENT.



2-5S03 / 5S03 SECTION
1:10



1-5S03 / 5S03 TYP. MANSARD SECTION
1:20



3-5S03 / 5S03 SECTION
1:10

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1	JULY 96	BWP	ISSUED FOR G.M.P. TENDER	GDH					

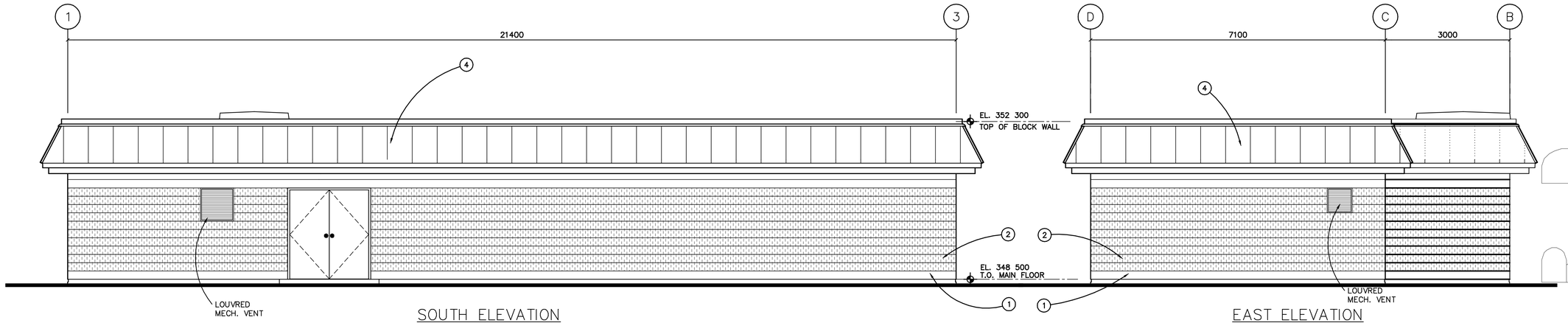
Design GDH
Drawn BWP
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 5
FILTER / U.V. BUILDING
ROOF PLAN
SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO

Reid Crowther
39844

Scale 1:50
Date JUNE 1996
City File
Sheet 3 of 6
Drawing 5S03
3

DESIGN ENG\TECH
DESIGN COORD.
Plotted 1998-05-28
SWWTP1A1 H:\PROJECTS\DWV\03884400\02A\123A\STRUCT\S\#445503



SOUTH ELEVATION

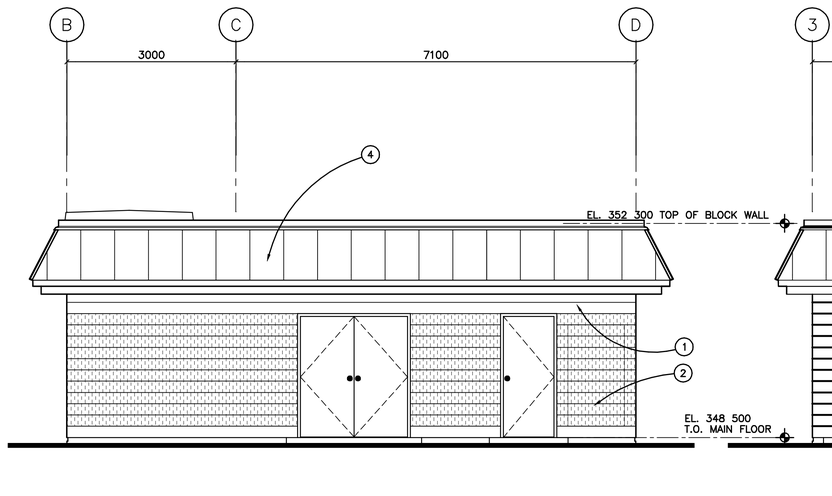
1:50

EAST ELEVATION

1:50

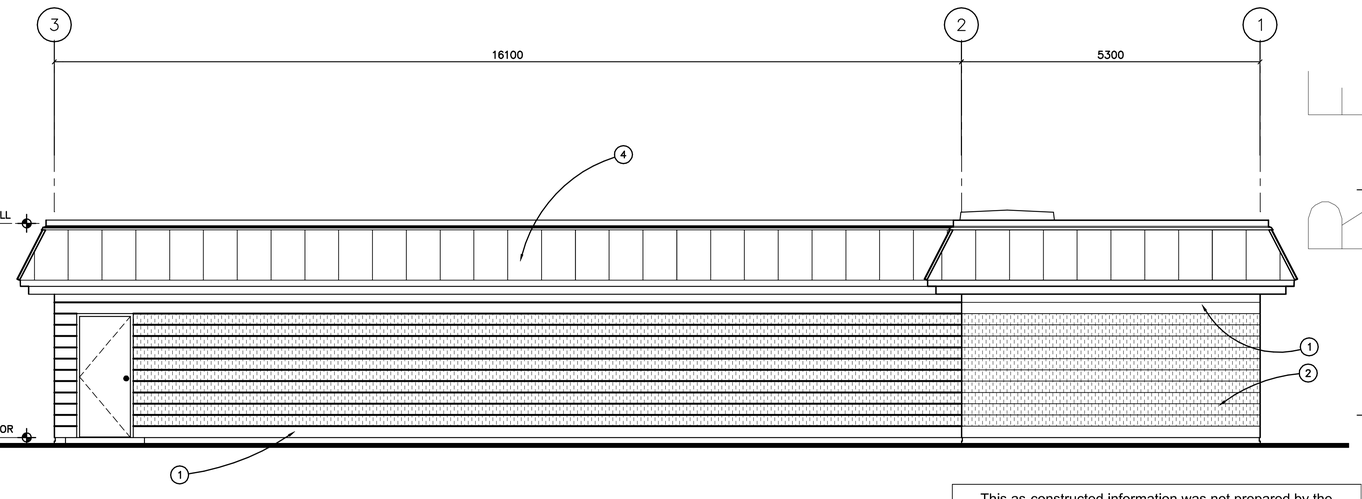
EXTERIOR FINISHES

1. SMOOTH FACED CONCRETE BLOCK
2. COLOURED SPLIT FACED CONCRETE BLOCK
3. NOT USED THIS SHEET
4. PRE-FINISHED STANDING SEAM METAL ROOF



WEST ELEVATION

1:50



NORTH ELEVATION

1:50

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
4	FEB. 98	BWP	RECORD DRAWING	GDH					
3	30MAY97	BWP	APPROVED FOR CONSTRUCTION, C.O. 4	GDH					
2	20MAR97	BWP	ISSUED FOR CONSTRUCTION	GDH					
1	JULY 96	BWP	ISSUED FOR G.M.P. TENDER	GDH					

PLANNING DESIGN
3-2908 32nd St.
Vernon, B.C. V1T 5M1
Tel/Fax:
(604) 260-1450

Design	PQA
Drawn	KP
Checked	
Submitted	
Approved	

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT

AREA 5

FILTER BUILDING
ELEVATIONS

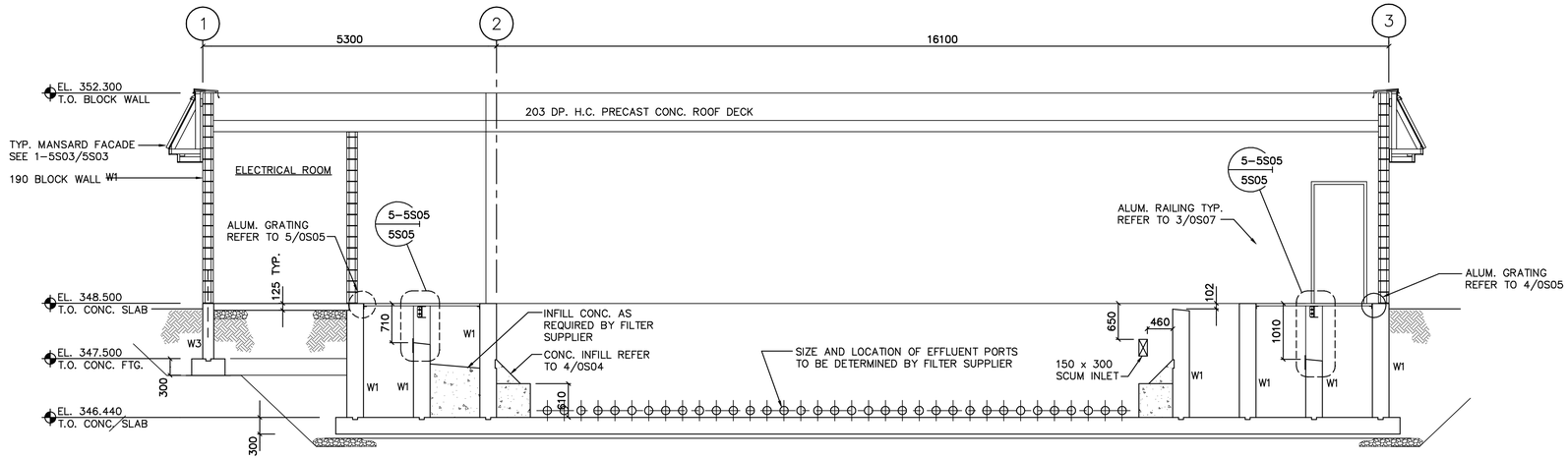
Reid Crowther
39844

Scale	1:50
Date	JULY 1996
City File	
Sheet	4 of 6
Drawing	5S04

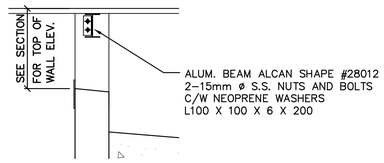
SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 3

DESIGN COORD. | DESIGN ENG\TECH

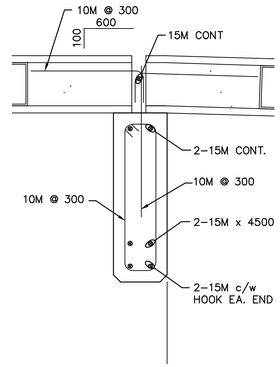
SWWTPA1 H:\PROJECTS\ENV\03984400\02A\12A\STRUCT\S\9445504 Plotted 1998-05-28



1-5S01 / 5S05 SECTION 1:50



5-5S05 / 5S05 DETAIL 1:25



6 / 5S05 DETAIL 1:25

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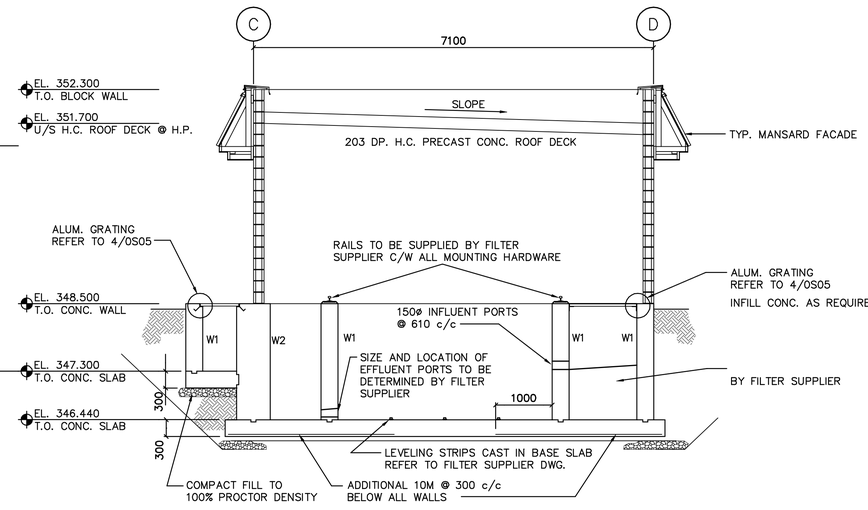
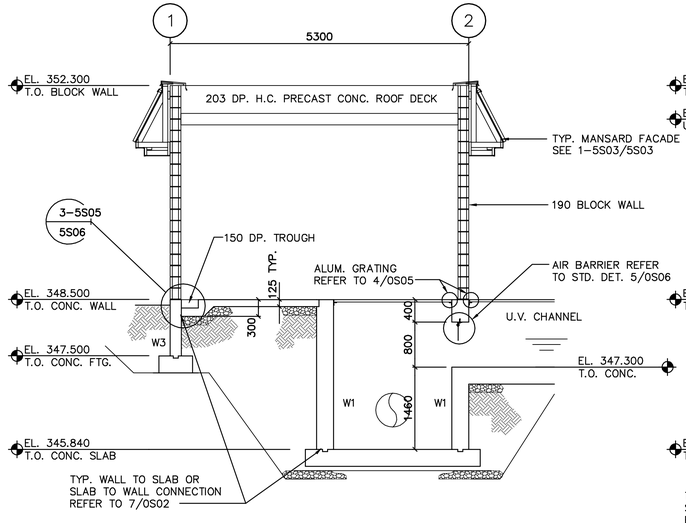
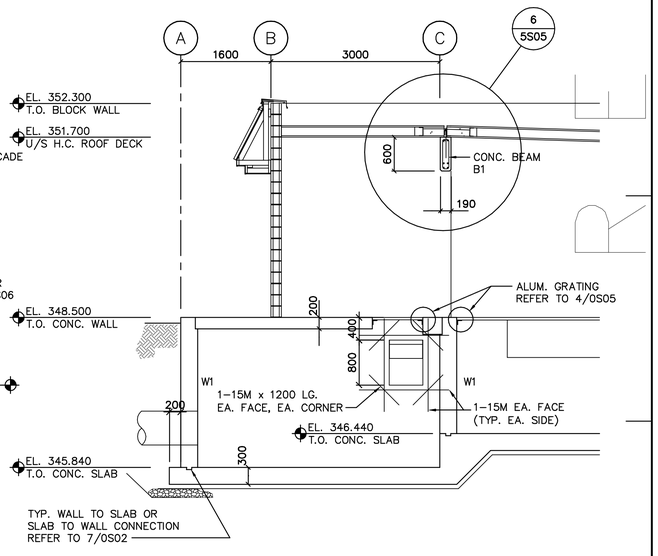


2-5S01 / 5S05 SECTION 1:50



3-5S01 / 5S05 SECTION 1:50



4-5S01 / 5S05 SECTION 1:50

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
4	FEB. 98	BWP	RECORD DRAWING	GDH					
3	30MAY97	BWP	APPROVED FOR CONSTRUCTION, C.O. 4	GDH					
2	20MAR97	BWP	ISSUED FOR CONSTRUCTION	GDH					
1	JULY 96	BWP	ISSUED FOR G.M.P. TENDER	GDH					

Design GDH
Drawn BWP
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 5

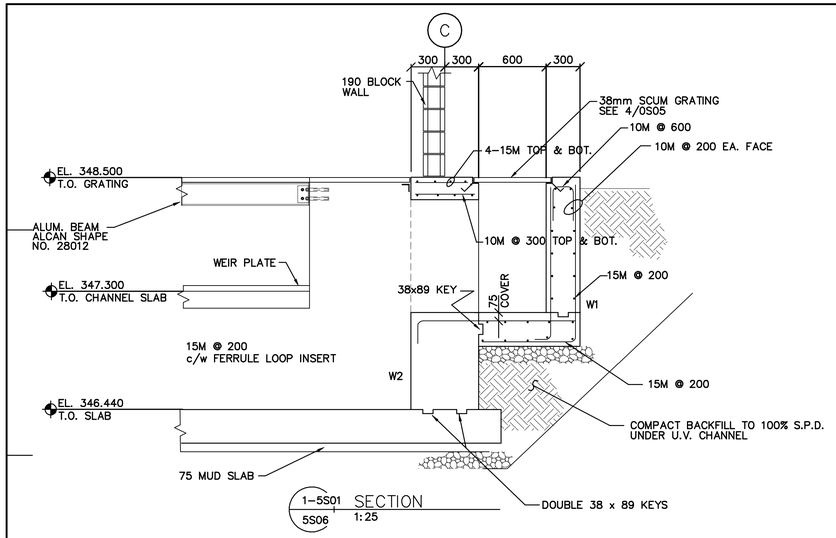
Reid Crowther 39844

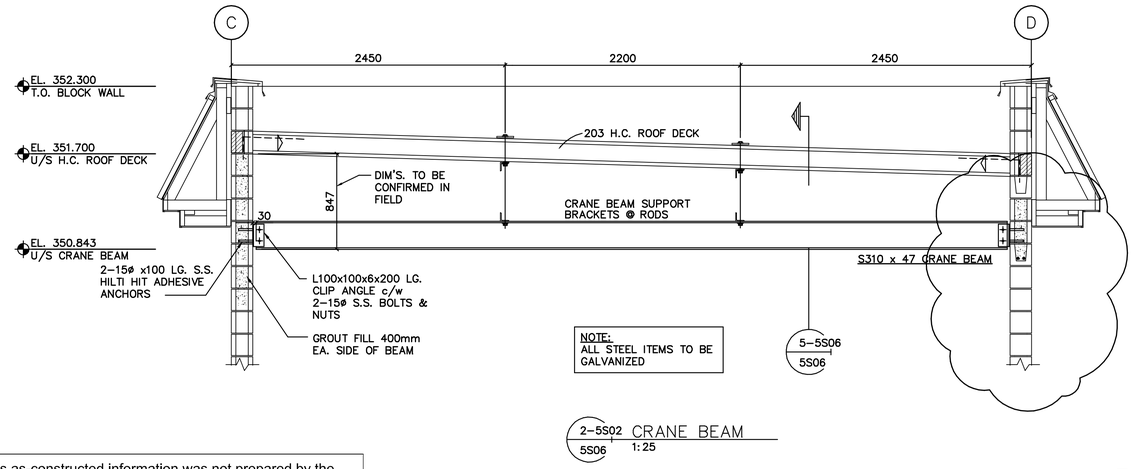
FILTER BUILDING
BUILDING SECTIONS

Scale 1:50
Date JUNE 1996
City File
Sheet 5 of 6
Drawing 5S05

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 3

DESIGN ENG\TECH
DESIGN COORD.
Plotted 1998-05-28
S:\WTP\A1 H\PROJECTS\ENV\03084400\02A\123-H\STRUCT\5\8445505





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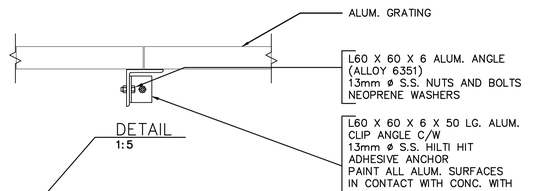
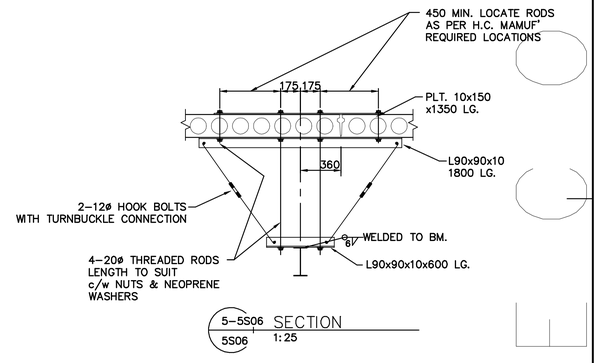
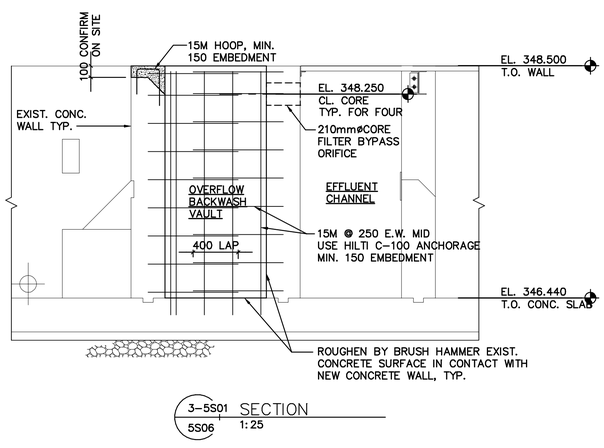
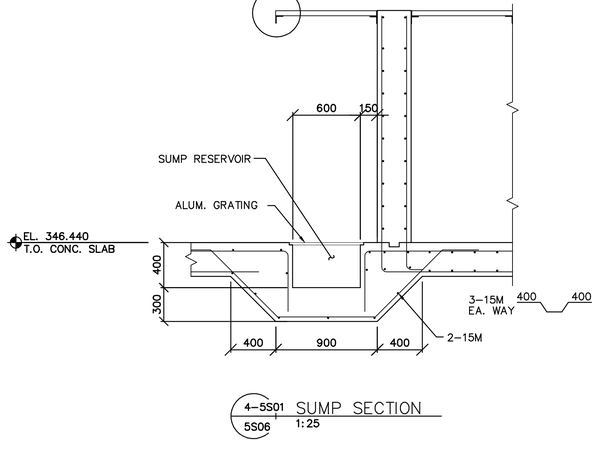
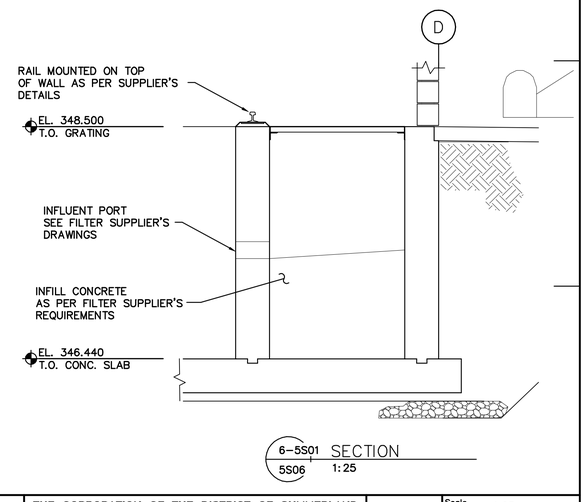






NOTES
1. REFER TO GENERAL CONTRACT SPECIFICATION FOR ALL ELEMENTS USED FOR THIS WORK.
2. PAINT SURFACE OF FILTER BYPASS ORIFICES WITH EPOXY PAINT.





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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
4	FEB. 98	BWP	RECORD DRAWING	GDH					
3	30MAY97	BWP	APPROVED FOR CONSTRUCTION, C.O. 4	GDH					
2	31MAR97	BWP	ISSUED FOR CONSTRUCTION (CRANE BEAM)	GDH					
1	JULY 96	BWP	ISSUED FOR G.M.P. TENDER	GDH					

Design GDH
Drawn BWP/MOT
Checked
Submitted
Approved

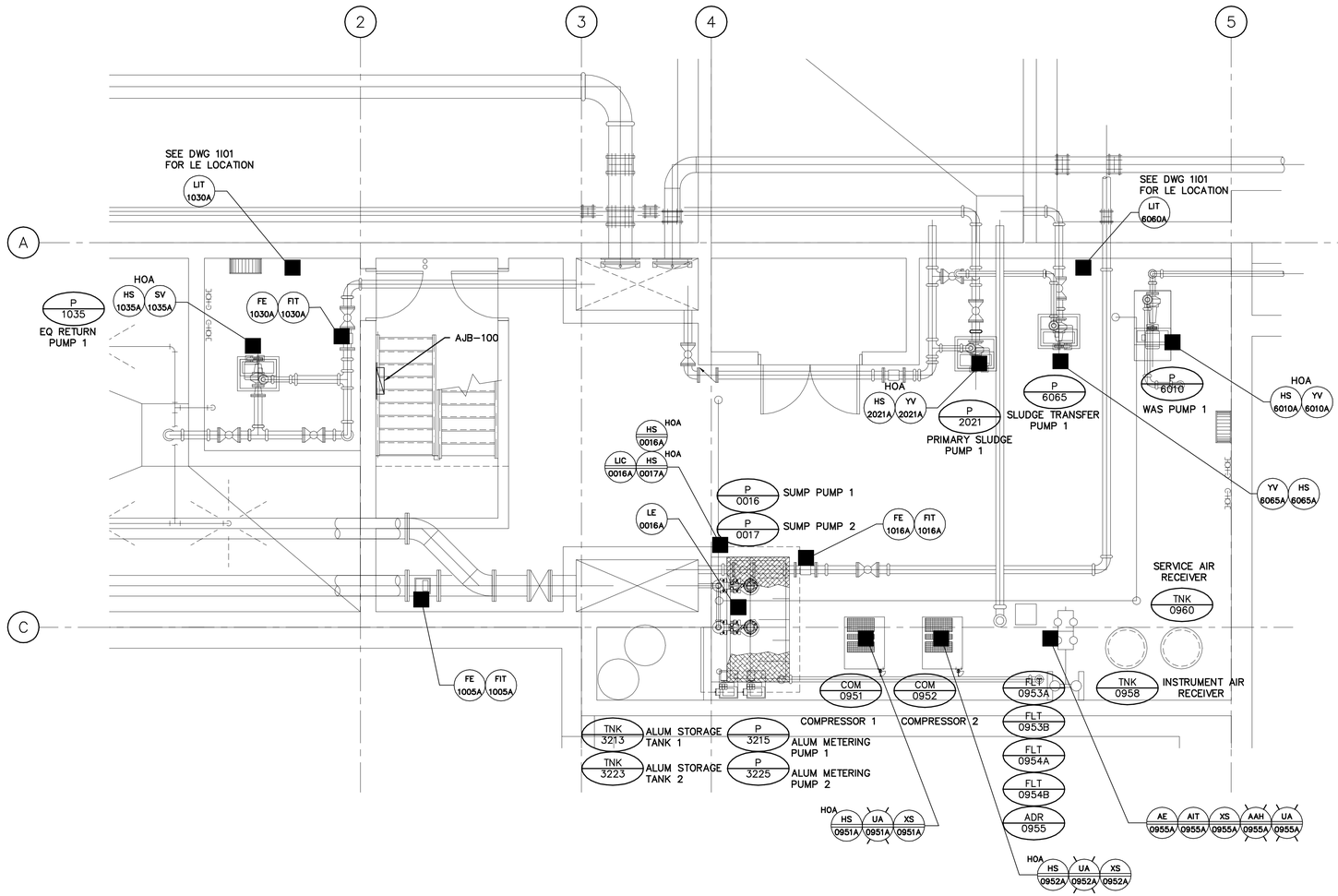
THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 5
FILTER BUILDING
BUILDING SECTIONS

Reid Crowther 39844

Scale 1:25
Date JUNE 1996
City File
Sheet 6 of 6
Drawing 5S06

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 4

DESIGN ENG\TECH | DESIGN COORD. | Plotted 1998-05-28 | SWWTP\A1 H:\PROJECTS\ENV\03884400\02A\123A\STRUCT\S\8445S06



PLAN
1:50

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No.	Date	By	Revision	Chkd
5	JUNE 98	KM	RECORD DRAWING	KJW
4	28MAY97	KJW	APPROVED FOR CONSTRUCTION, C.O. 4	CGL
3	5MAR97	KJW	ISSUED FOR CONSTRUCTION	CGL
2	9JAN97	KJW	WORK IN PROGRESS V.1 (NO CHANGES)	KAC
1	JULY 96	KJW	ISSUED FOR GMP TENDER	CGL

Design BLC
Drawn GDS/KJW
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT

AREA 6 – SLUDGE MANAGEMENT

Reid Crowther 39844

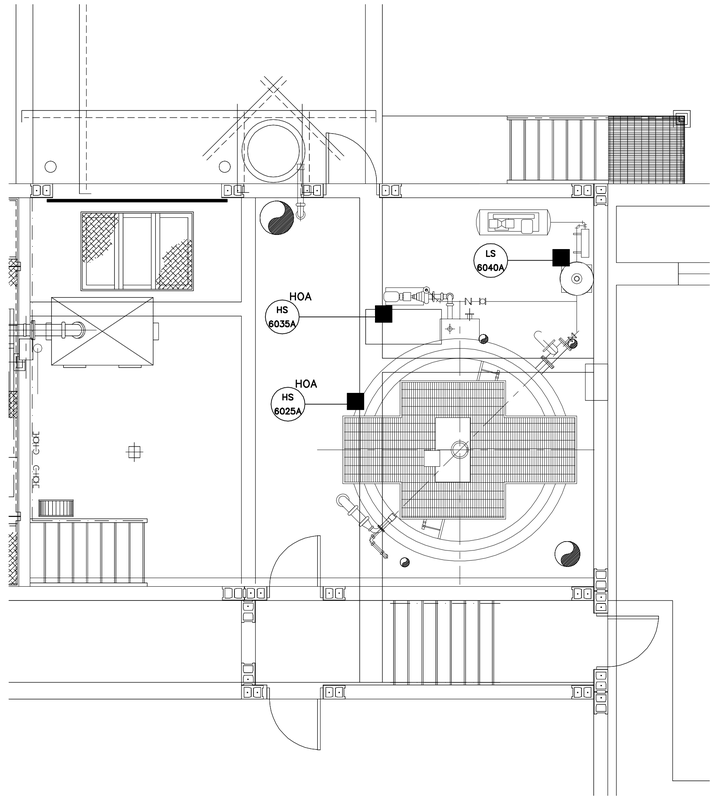
LOWER FLOOR PLAN
INSTRUMENTATION LAYOUT

Scale AS NOTED
Date JULY 1996
City File
Sheet 1 of 2
Drawing 6I01

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 5

DESIGN COORD. | DESIGN ENG\TECH | SWWTPA1 H:\PROJECTS.DWG\39844400\DGN\12345\LEGEND44601 Plotted 1998-07-17

RECORD



INSTRUMENTATION PLAN
1:50

RECORD

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
5	JUNE 98	KM	RECORD DRAWING	KJW					
4	29MAY97	KJW	APPROVED FOR CONSTRUCTION, C.O. 4	CGL					
3	31MAR97	KJW	ISSUED FOR CONSTRUCTION	CGL					
2	9JAN97	KJW	WORK IN PROGRESS V.1 (NO CHANGES)	KAC					
1	JULY 96	KJW	ISSUED FOR GMP TENDER	CGL					

Design BLC
Drawn GDS/KJW
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT

AREA 6 – SLUDGE MANAGEMENT

Reid Crowther
39844

MAIN FLOOR PLAN
INSTRUMENTATION LAYOUT

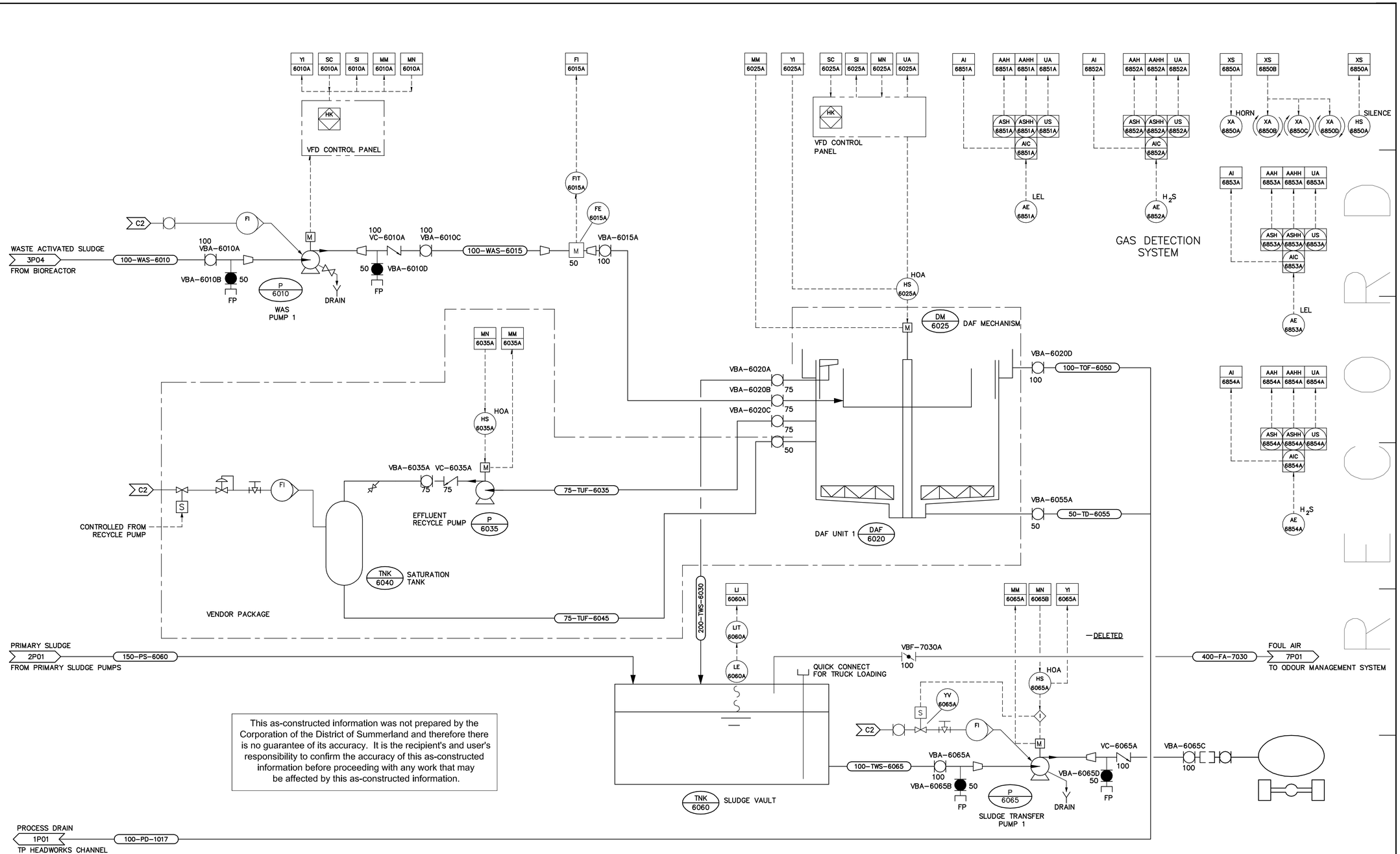
Scale AS NOTED
Date JULY 1996
City File
Sheet 2 of 2
Drawing 6102

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 5

DESIGN COORD. | DESIGN ENG\TECH

H:\PROJECTS\DWG\0288-4400\02A\125A\EXEC\84-6802 Plotted: 1998-07-17

SWWTP A1



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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
5	20 MAY 98	GDB	RECORD DRAWING	KJW					
4	28MAY97	KJW	APPROVED FOR CONSTRUCTION, C.O. 4	CGL					
3	28FEB97	KJW	ISSUED FOR CONSTRUCTION – REVISED	CGL					
2	9JAN97	KJW	WORK IN PROGRESS V.1 (MAG METERS)	KAC					
1	JULY 96	KJW	ISSUED FOR GMP TENDER	BLC					

Design CGL/BLC
Drawn GDS/KJW
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT

AREA 6 – SLUDGE MANAGEMENT

Reid Crowther 39844

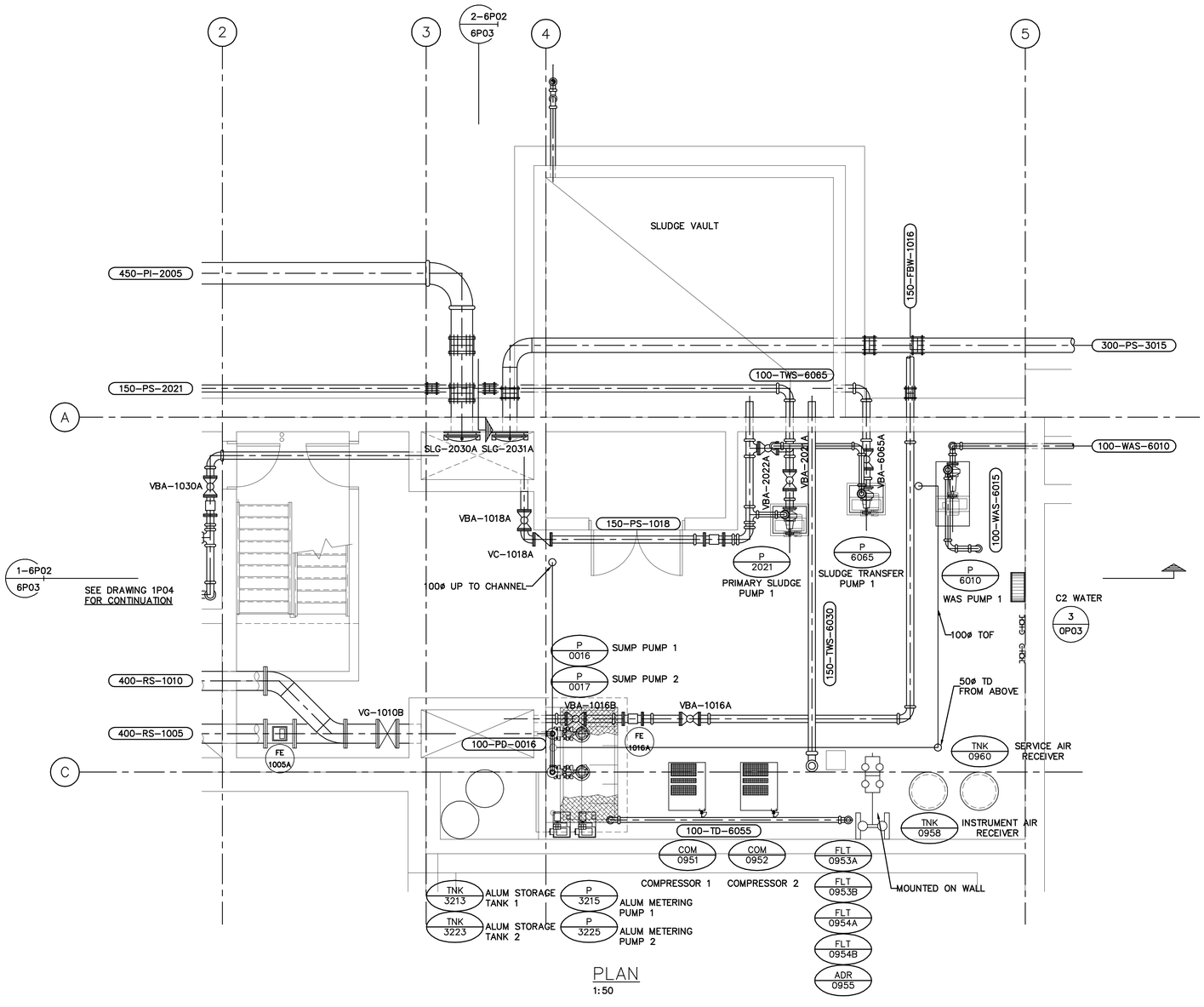
DAF UNIT AND SLUDGE VAULT
PIPING AND INSTRUMENTATION DIAGRAM

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO →

Scale AS NOTED
Date MAY 1996
City File
Sheet of
Drawing 6P01

5

DESIGN ENG\TECH
DESIGN COORD.
SWWTP.A1 H:\PROJECTS\DWG\03984400\00A\123A\WST\8446P01 Plotted 1998-07-14



PLAN
1:50

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
6	24MAR97	KJW	ISSUED FOR CONSTRUCTION(LOADING DRAIN)	CGL					
5	27FEB97	KJW	ISSUED FOR CONSTRUCTION	CGL					
4	17FEB97	KJW	WORK IN PROGRESS V.3 (EQUALIZATION PIPING)	CGL					
3	9JAN97	KJW	WORK IN PROGRESS V.2 (ADD. FLOOR DRAINS)	BWP					
2	20NOV96	KJW	WORK IN PROGRESS V.1 (FLOOR DRAINS)	BWP	8	20 MAY 98	GDB	RECORD DRAWING	KJW
1	JULY 96	KJW	ISSUED FOR GMP TENDER	CGL	7	28MAY97	KJW	APPROVED FOR CONSTRUCTION, C.O. 4	CGL

Design	CGL/KJW
Drawn	KJW
Checked	
Submitted	
Approved	

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT

Reid Crowther 39844

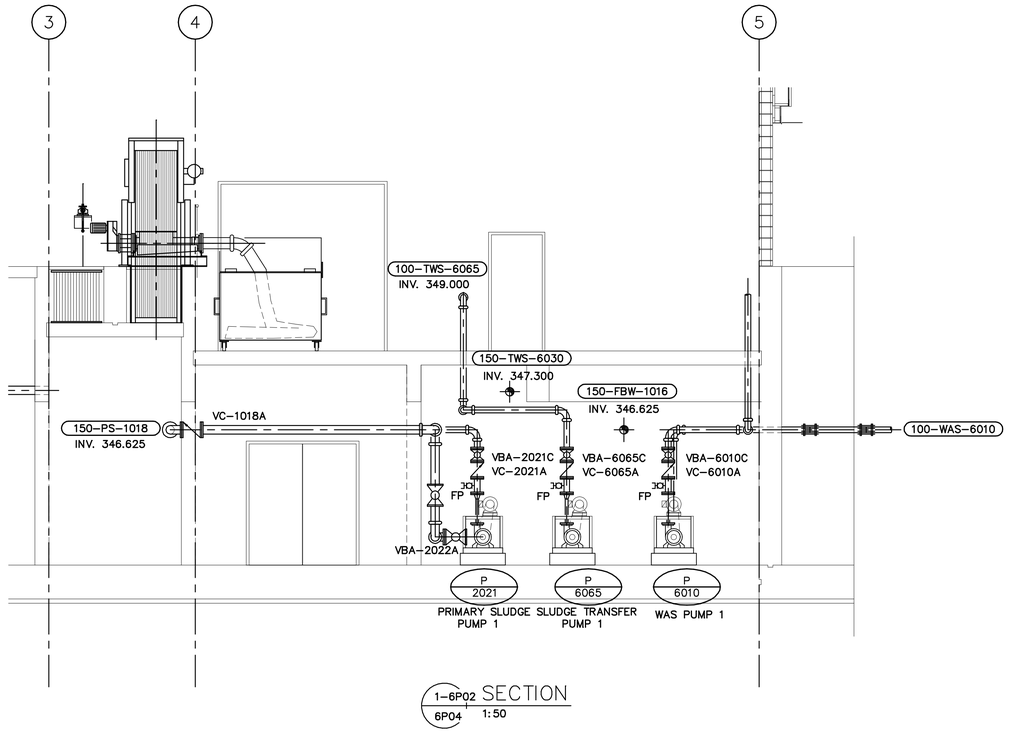
AREA 6 – SLUDGE MANAGEMENT

LOWER FLOOR PLAN
GENERAL ARRANGEMENT

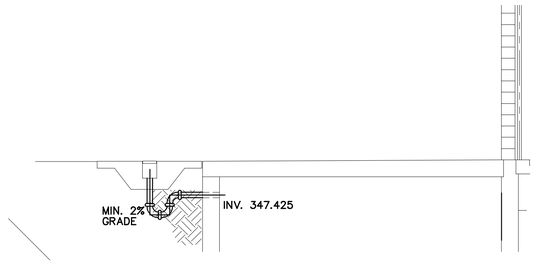
Scale	AS NOTED
Date	JUNE 1996
City File	
Sheet	of
Drawing	6P02

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 8

DESIGN ENG\TECH
DESIGN COORD.
SWWTPA1 H:\PROJECTS\DWG\00864400\02A\1234\PROC\P.84400P02 Plotted: 1998-07-14



1–6P02 / 6P04 SECTION 1:50



2–6P02 / 6P03 SECTION 1:50

RECORD

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
5	20 MAY 98	GDB	RECORD DRAWING	KJW					
4	28MAY97	KJW	APPROVED FOR CONSTRUCTION, C.O. 4	CGL					
3	24MAR97	KJW	CONSTRUCTION REVISION	CGL					
2	27FEB97	KJW	ISSUED FOR CONSTRUCTION	CGL					
1	JULY 96	KJW	ISSUED FOR GMP TENDER	CGL					

Design CGL/KJW
Drawn KJW/MOT
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT

Reid Crowther 39844

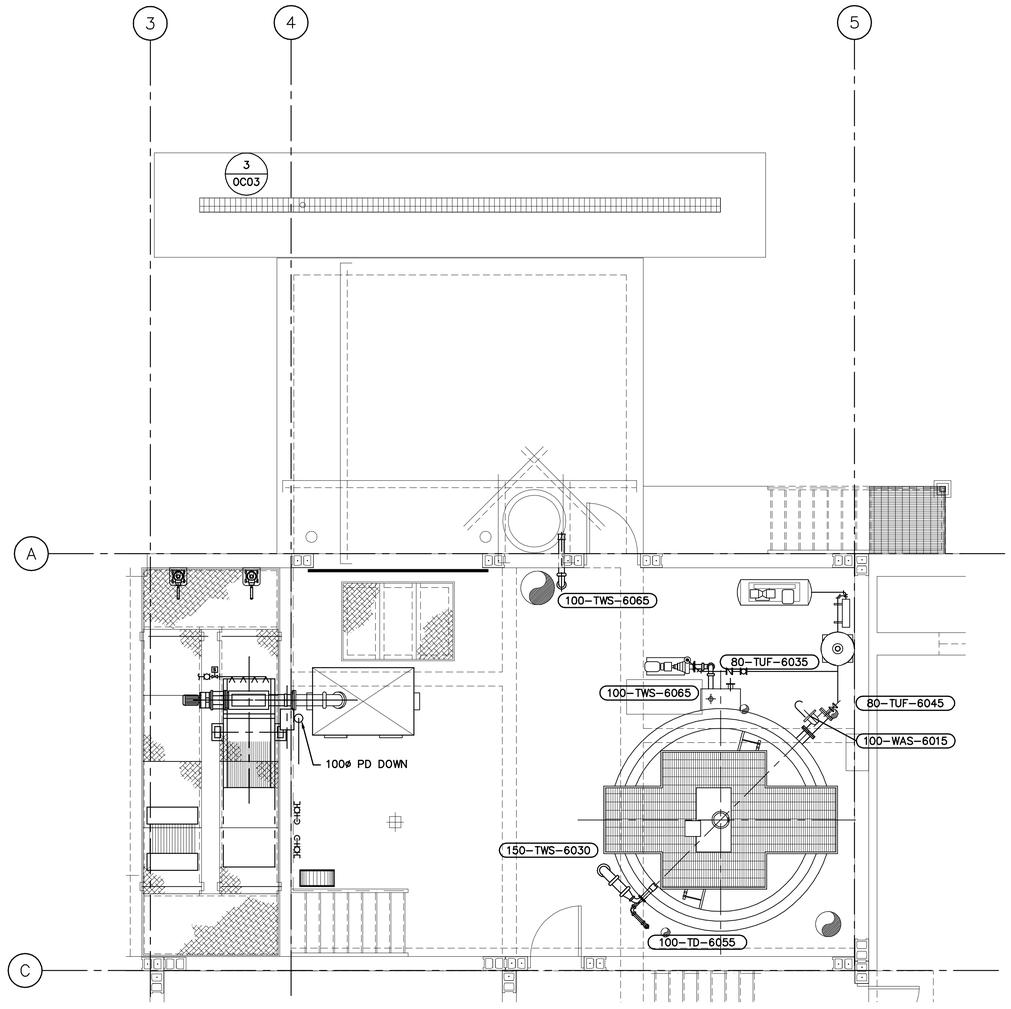
AREA 6 – SLUDGE MANAGEMENT

LOWER FLOOR
SECTIONS AND DETAILS

Scale AS NOTED
Date JUNE 1996
City File
Sheet of
Drawing 6P03

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 5

DESIGN ENG\TECH
DESIGN COORD.
SWWTPA1 H:\PROJECTS\DAY\3398400\DGN\123A\PROC\6\3844P03 Plotted: 1998-07-14



PLAN
1:50

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
5	20 MAY 98	GDB	RECORD DRAWING	KJW					
4	28MAY97	KJW	APPROVED FOR CONSTRUCTION, C.O. 4	CGL					
3	24MAR97	KJW	CONSTRUCTION REVISION	CGL					
2	27FEB97	KJW	ISSUED FOR CONSTRUCTION	CGL					
1	JULY 96	KJW	ISSUED FOR GMP TENDER	CGL					

Design CGL/KJW
Drawn KJW/MOT
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT

Reid Crowther
39844

AREA 6 – SLUDGE MANAGEMENT

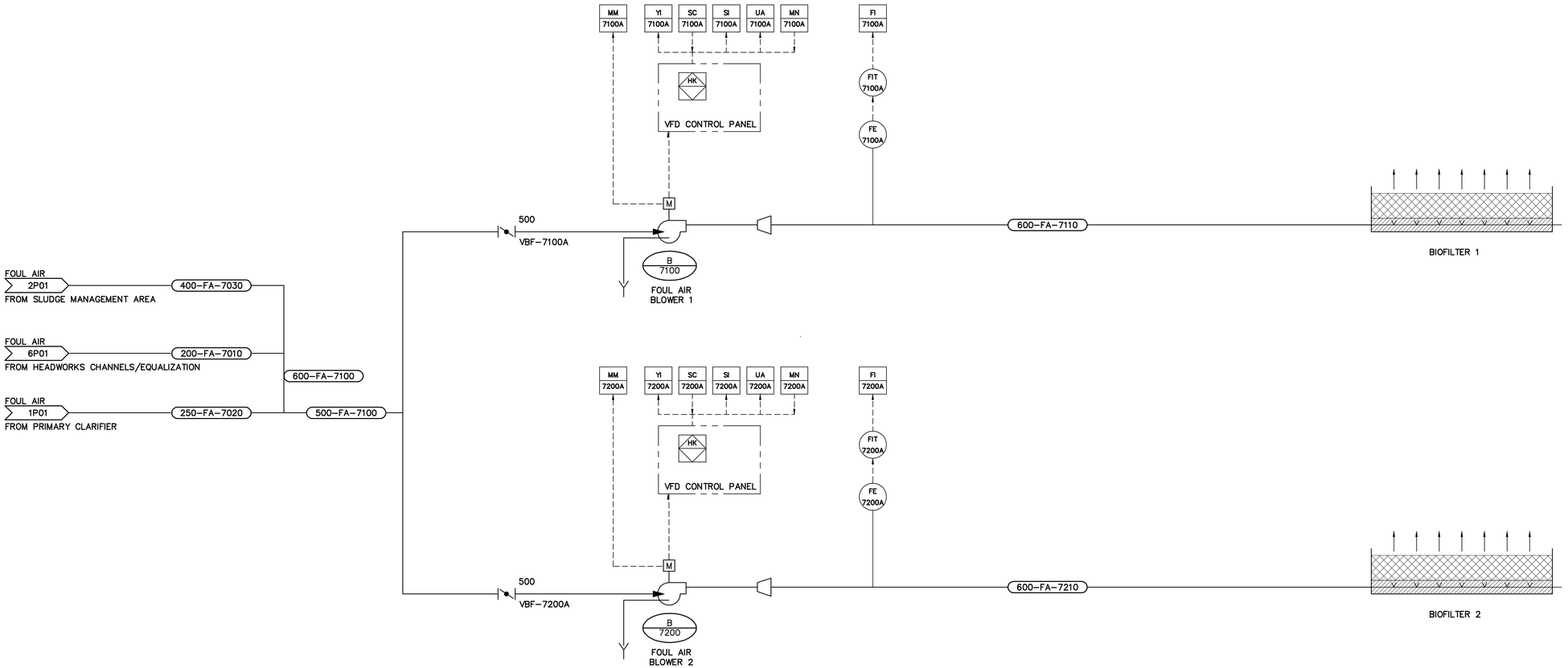
MAIN FLOOR PLAN
SECTIONS AND DETAILS

Scale AS NOTED
Date JUNE 1996
City File
Sheet of
Drawing 6P04

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 5

RECORD

DESIGN ENG\TECH
DESIGN COORD.
SWWTP A1
H:\PROJECTS\ENV\3388-4400\02A\12A\PROCS\B4-6P04 Plotted 1998-07-17



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5	20 MAY 98	GDB	RECORD DRAWING	KJW					
4	28MAY97	KJW	APPROVED FOR CONSTRUCTION, C.O. 4	CGL					
3	28FEB97	KJW	ISSUED FOR CONSTRUCTION	CGL					
2	9JAN97	KJW	WORK IN PROGRESS V.1 (NO CHANGES)	KAC					
1	JULY 96	KJW	ISSUED FOR GMP TENDER	BLC					

Design CGL/BLC
Drawn KJW
Checked
Submitted
Approved

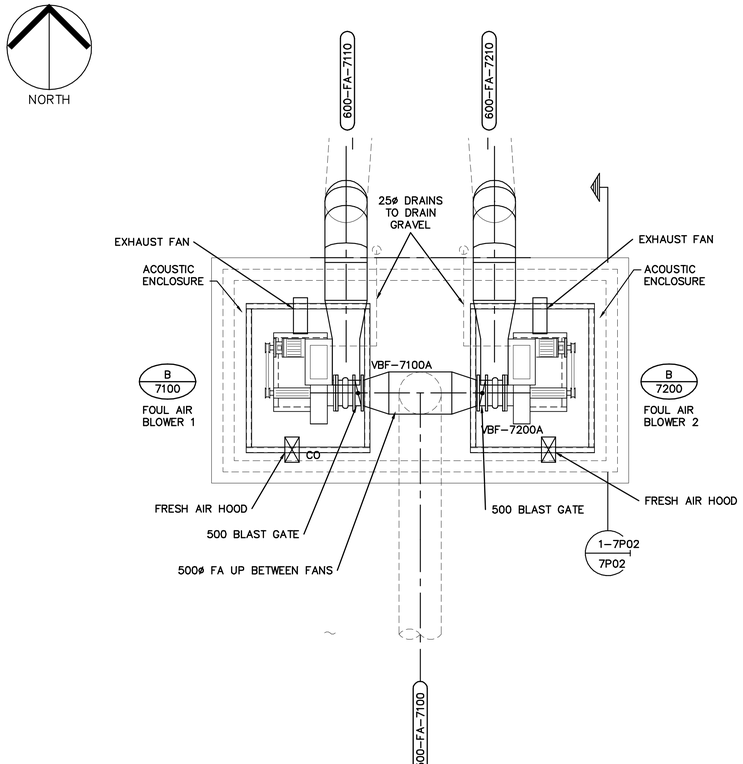
THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 7 – ODOUR MANAGEMENT SYSTEM
Reid Crowther 39844

FOUL AIR BLOWERS
PIPING AND INSTRUMENTATION DIAGRAM

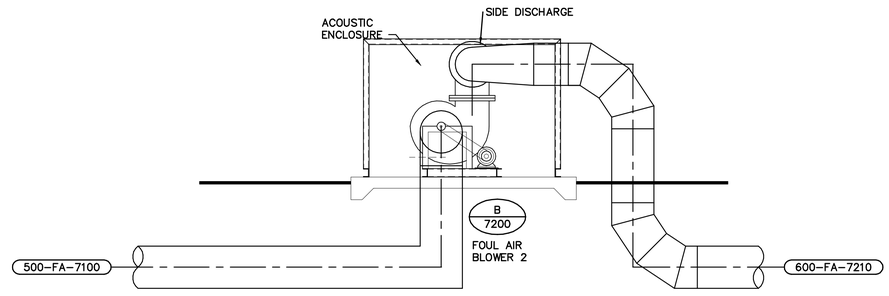
Scale AS NOTED
Date MAY 1996
City File
Sheet of
Drawing 7P01

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 5

DESIGN ENG\TECH
DESIGN COORD.
SWWTP1 H:\PROJECTS\ENV\03984401\02A\123A\INST\9447P01 Plotted 1998-07-16



FLOOR PLAN
1:50



1-7P02 / 7P02 SECTION
1:50

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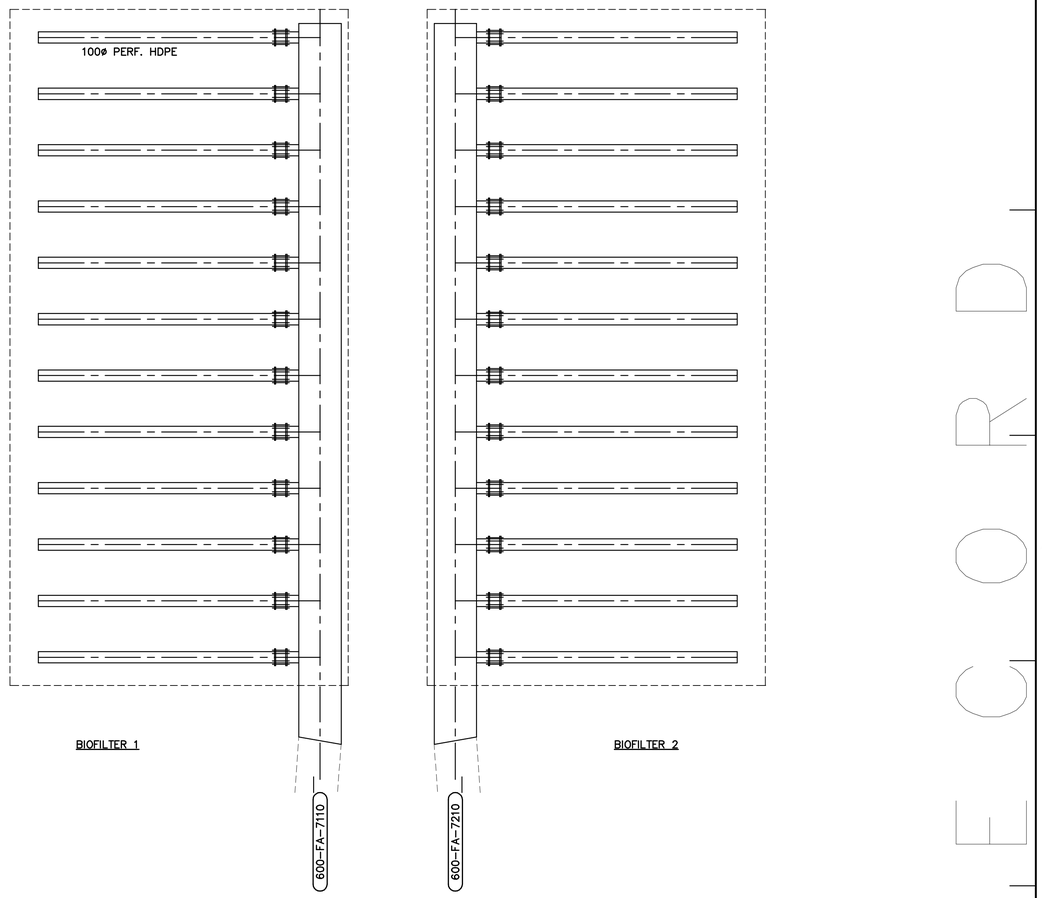
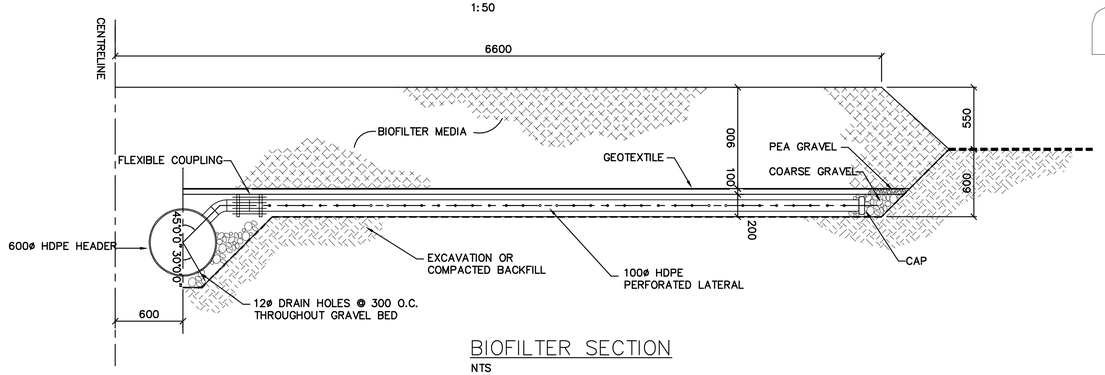


BIOFILTER PLANS
1:50



BIOFILTER SECTION
NTS

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
4	20 MAY 98	GDB	RECORD DRAWING	KJW					
3	28MAY97	KJW	APPROVED FOR CONSTRUCTION, C.O. 4	CGL					
2	15APR97	KJW	ISSUED FOR CONSTRUCTION (REVISED DUCT DIA.)	CGL					
1	JULY 96	KJW	ISSUED FOR GMP TENDER	CGL					

Design CGL/KJW
Drawn KJW
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 7 – ODOUR MANAGEMENT SYSTEM
PLANS, SECTIONS AND DETAILS

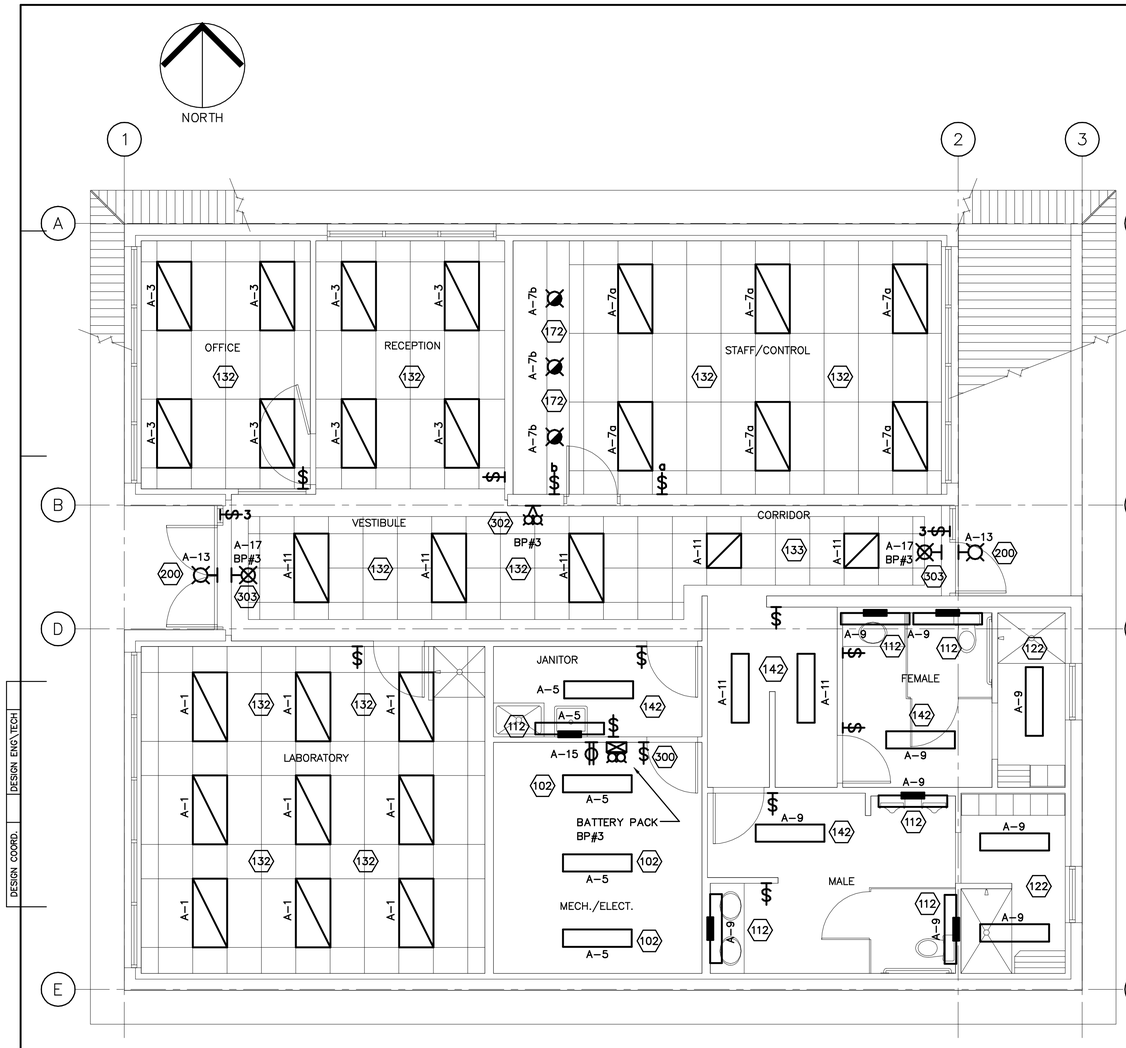
Reid Crowther 39844

Scale AS NOTED
Date JULY 1996
City File
Sheet of
Drawing 7P02

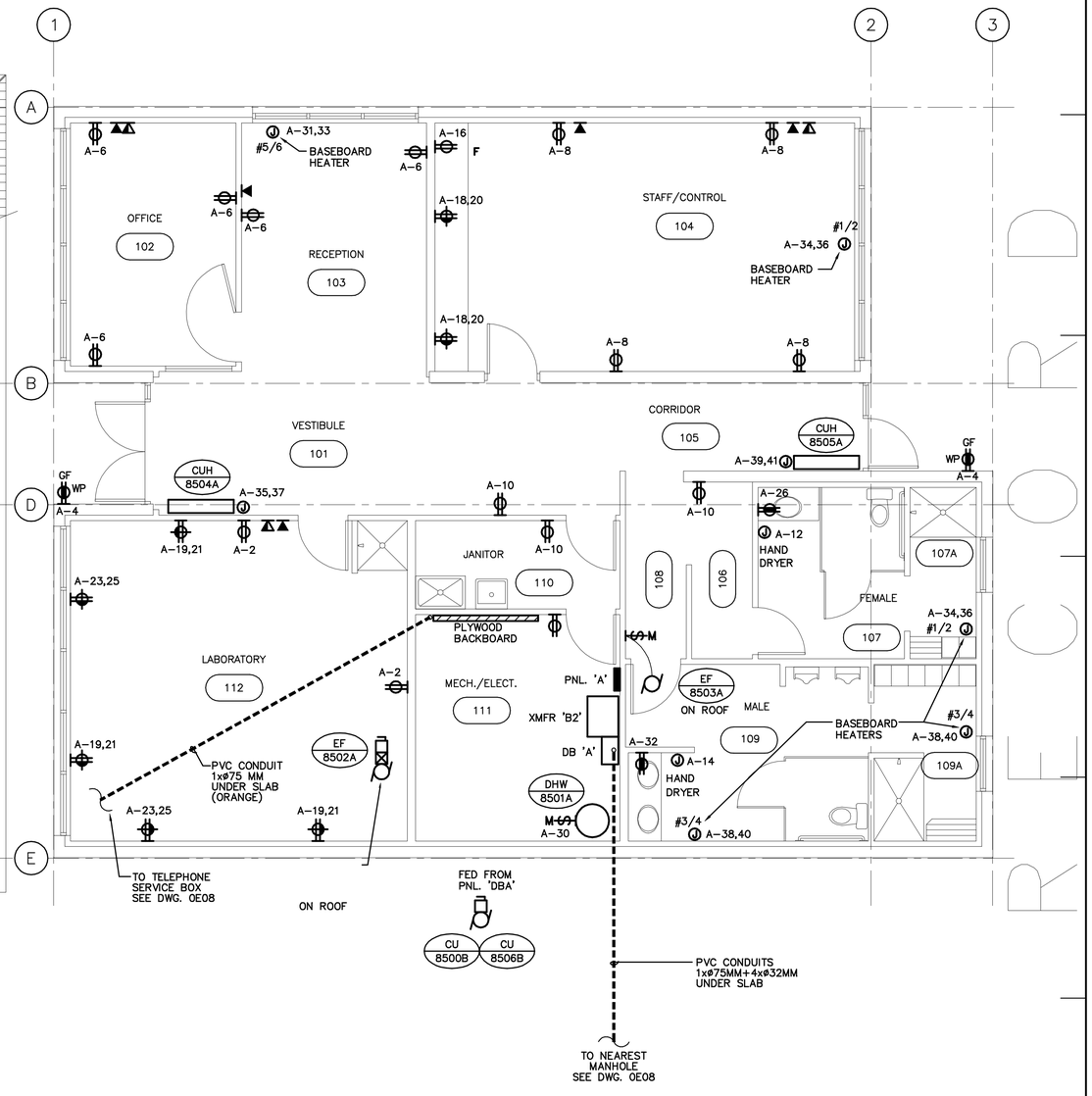
SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 4

RECORD

DESIGN ENG\TECH | DESIGN COORD. | Plotted 1998-07-14 | H:\PROJECTS\ENV\03984400\02A\123A\PROC\7\8447P02 | SWWTP1A1



1 / 8E02 ADMIN. BLDG. – LIGHTING
SCALE 1 : 50



2 / 8E02 ADMIN. BLDG. – POWER & COMM.
SCALE 1 : 50

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4	26JUN98	KM	RECORD DRAWING	KJW					
3	38MAY97	KM	APPROVED FOR CONSTRUCTION, CO 4	KHM					
2	09APR97	KM	ISSUED FOR CONSTRUCTION (DUCT SCHEDULE)	KHM					
1	JULY 96	KM	ISSUED GMP TENDER	KHM					

Design KM
Drawn KM
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 8 – OPERATIONS/ADMINISTRATION
POWER & LIGHTING

Reid Crowther 39844

Scale AS SHOWN
Date JULY 1996
City File
Sheet of
Drawing 8E01

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 4

DESIGN ENG.\TECH
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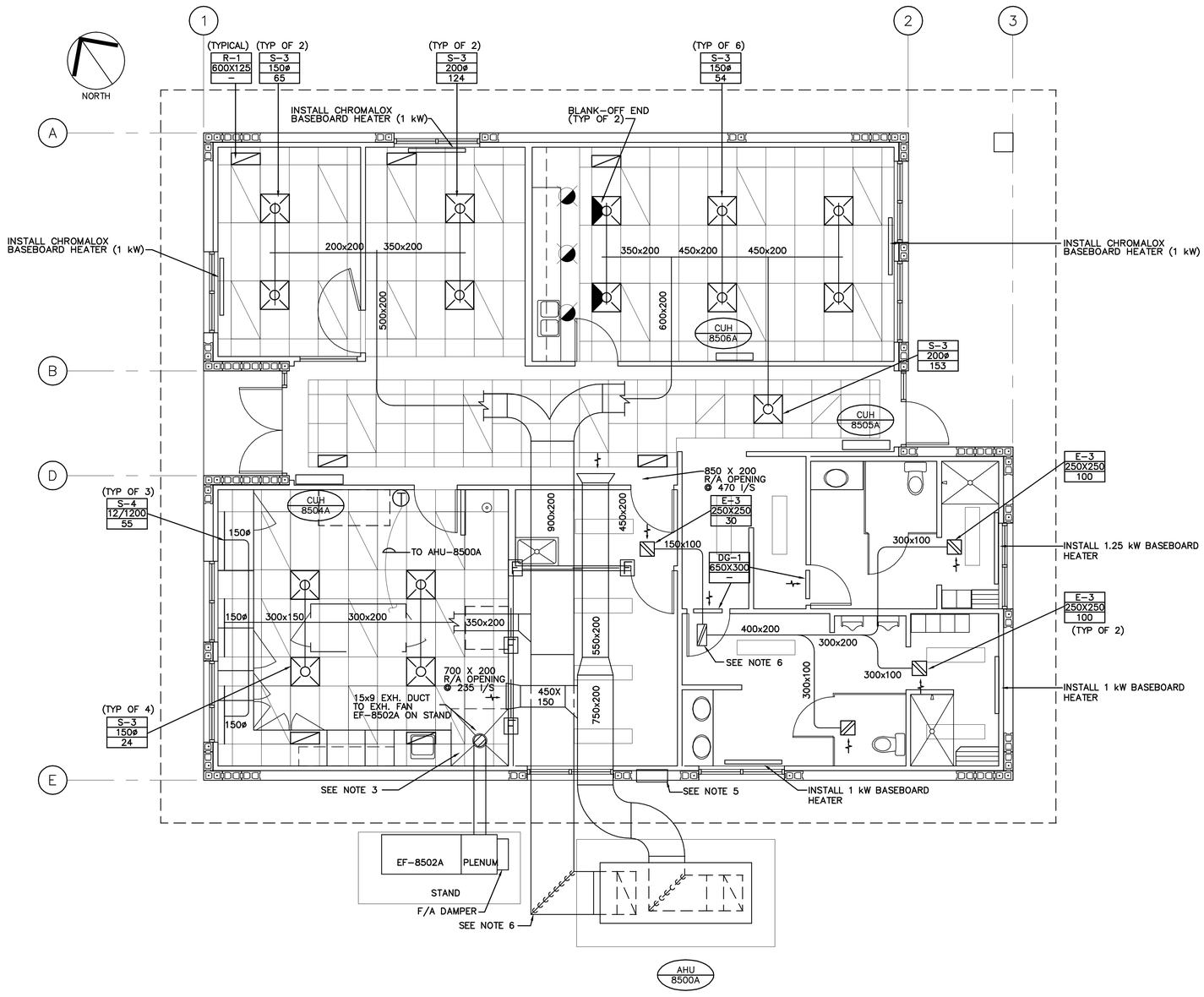
H:\PROJECTS\DRV\03884400\02A_123A\ELEC\8448D1 Plotted 1998-07-17
SWMTPA1



1-8M01 / 8M01 MAIN FLOOR PLAN
SCALE 1:50

GENERAL NOTES:

1. COORDINATE MECHANICAL DUCTWORK & DIFFUSERS WITH ALL OTHER TRADES.
2. PROVIDE AND INSTALL BALANCING DAMPERS AS REQUIRED TO BALANCE SYSTEM TO AIR VOLUMES INDICATED.
3. DUCTS ARE SIZED ON FREE AREA. INCREASE DUCT SIZES AS REQUIRED TO MAINTAIN FREE AREA SIZE WHEREVER THEY HAVE INTERNAL INSULATION.
4. SUPPLY AIR BRANCH DUCTS SHALL BE THE SAME SIZE AS THE DIFFUSER NECK SIZE INDICATED.
5. 150x400 COMBUSTION / RELIEF DUCT C/W LOUVER, BIRDSCREEN & ESKIMO TRAP.
6. PROVIDE SPLITTER VAINS IN SUPPLY AIR DUCT. INSULATE DUCTS AS PER MECHANICAL SPEC. & AS REQUIRED BY CODE.
7. ALL BASEBOARD HEATERS SHALL BE C/W THERMOSTATS.
8. DG-1 SHALL BE E.H.PRICE ATGH/BF/B15 OR APPROVED EQUAL

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4	2JUNE97	JFK	APPROVED FOR CONSTRUCTION, C.O. 4	KJW					
3	25MAR97	JFK	ISSUED FOR CONSTRUCTION	KJW					
2	20NOV96	KJW	WORK IN PROGRESS V.1 (FLOOR DRAINS)	BWP					
1	JULY 96	AGT	ISSUED FOR GMP TENDER	BWP					

Design GSR
Drawn AGT/JFK
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 8
Reid Crowther 39844

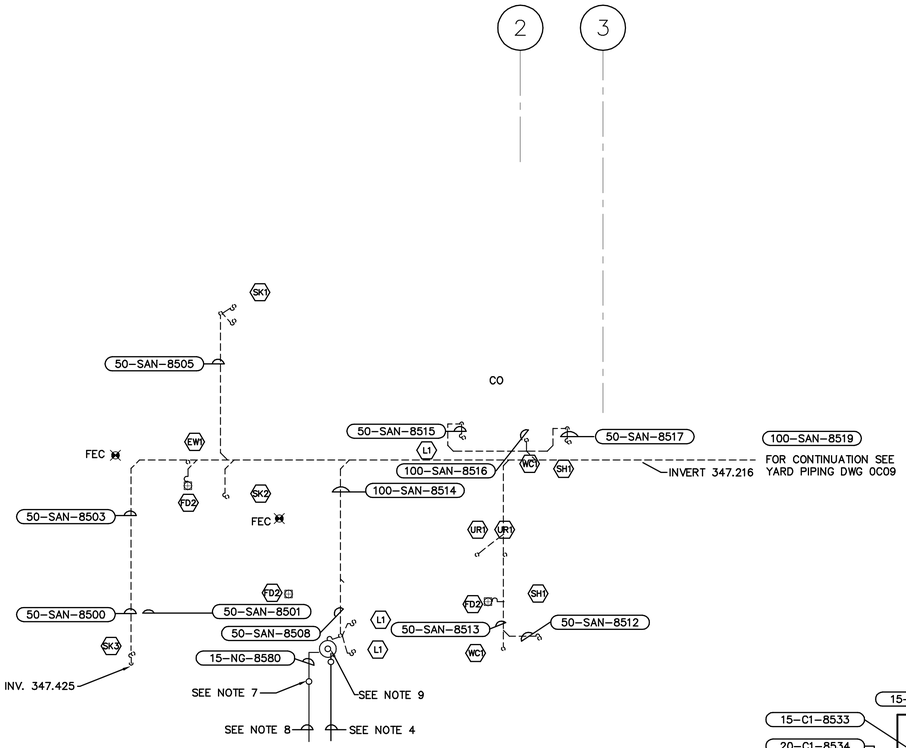
OPERATIONS / ADMINISTRATION BUILDING
MAIN FLOOR HVAC PLAN

Scale AS NOTED
Date MARCH 1997
City File
Sheet 1 of 2
Drawing 8M01

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 5

DESIGN ENG\TECH
DESIGN COORD.
H:\PROJECTS\ENV\039844\00\02A\123A\HVAC\8448M01 Plotted 1998-07-16
SWTP.A1

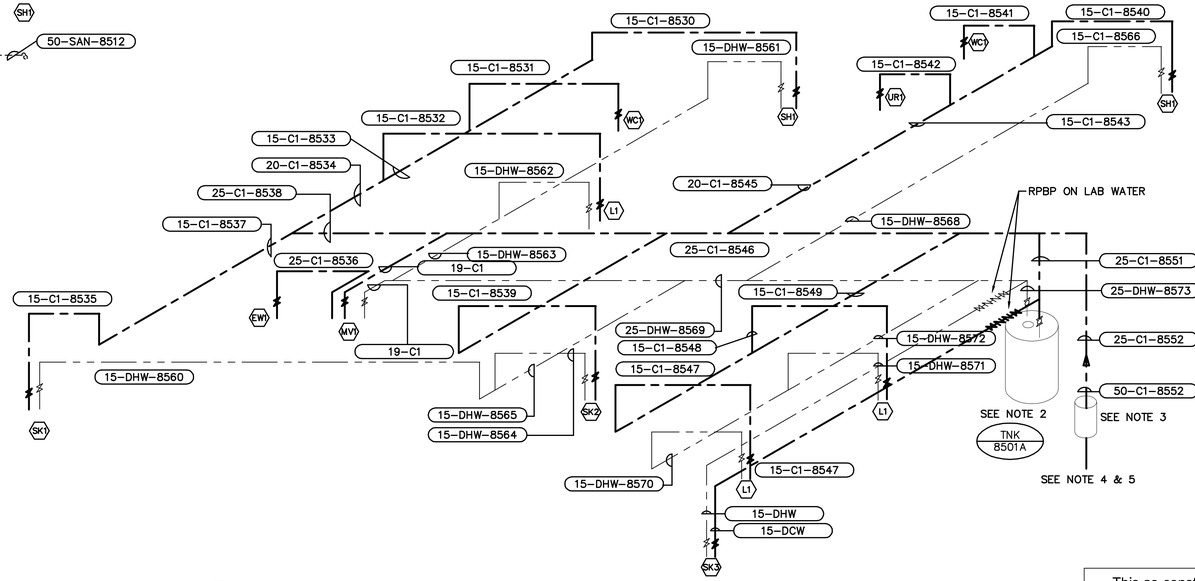
RECORD



1-8M02 / 8M02 MAIN FLOOR PLAN
SCALE 1:75

GENERAL NOTES:

1. PROVIDE & INSTALL PLUMBING TRAPS & VENTS AS PER PLUMBING CODE & AUTHORITY HAVING JURISDICTION.
2. FOR DHW TANK CONNECTION SEE HOT WATER TANK PIPING DETAIL ON MECHANICAL DWG 1M04.
3. PROVIDE 50ø SLEEVE THRU SLAB. PACK SLEEVE WITH INSULATION AFTER INCOMING C1 LINE HAS BEEN INSTALLED.
4. FOR CONTINUATION OF C1 WATER LINE REFFER TO YARD PIPING DWG 0C09 & MECHANICAL DWG 1M06.
5. PROVIDE & INSTALL THRUST BLOCKS AS REQUIRED.
6. INSULATE PIPING AS OUTLINED IN MECHANICAL SPECIFICATION.
7. PROVIDE & INSTALL NATURAL GAS PRV. AS REQUIRED BY CODE & AUTHORITY HAVING JURISDICTION.
8. FOR CONTINUATION OF NATURAL GAS LINE REFER TO YARD PIPING DWG 0C09 & MECHANICAL DWG 1M06.
9. 100ø DHW TANK FLUE UP THRU ROOF.



2-8M02 / 8M02 ADMINISTRATION BUILDING PLUMBING SCHEMATIC
SCALE N.T.S.

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3	25MAR97	JFK	ISSUED FOR CONSTRUCTION	KJW					
2	20NOV96	KJW	WORK IN PROGRESS V.1 (FLOOR DRAINS)	BWP					
1	JULY 96	AGT	ISSUED FOR GMP TENDER	BWP					

Design GSR
Drawn JFK
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 8
OPERATIONS / ADMINISTRATION BUILDING
MAIN FLOOR PLUMBING
SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO

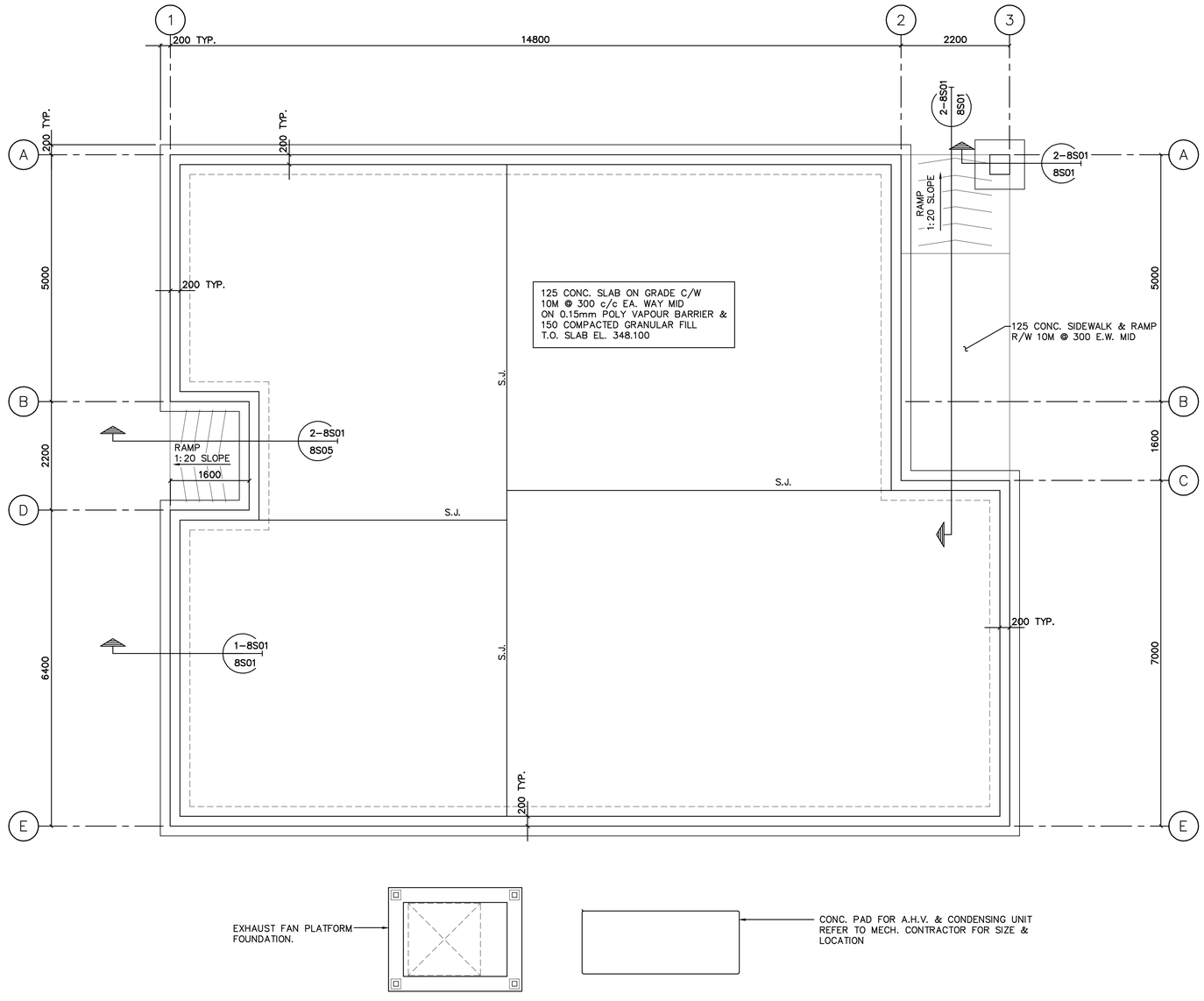
Reid Crowther 39844

Scale AS NOTED
Date MARCH 1997
City File
Sheet 2 of 2
Drawing 8M02

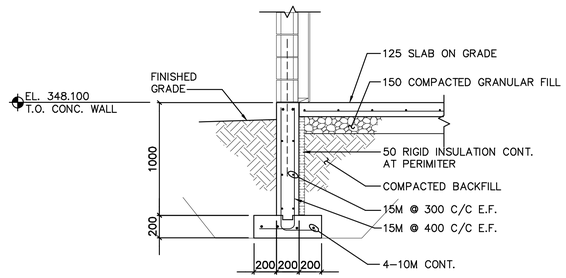
5

DESIGN ENG\TECH
DESIGN COORD.
Plotted 1998-07-16
S:\WTP\A1 H:\PROJECTS\ENV\0398440\02A\1234\HVAC\8\8448M02

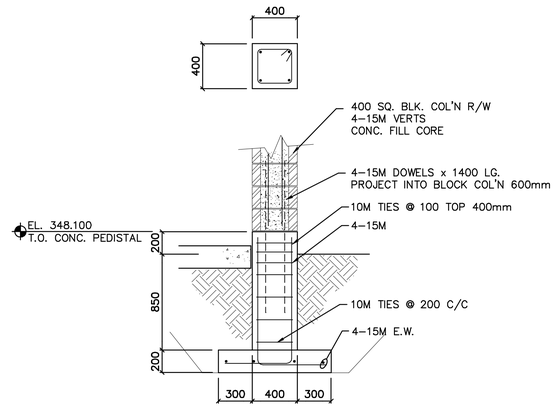
RECORD



FOUNDATION PLAN
1:50



1–8S01 / 8S01 SECTION
1:25



2–8S01 / 8S01 SECTION
1:25

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3	30MAY97	BWP	APPROVED FOR CONSTRUCTION, C.O. 4	GDH					
2	25APR97	BWP	ISSUED FOR CONSTRUCTION	GDH					
1	JULY 96	BWP	ISSUED FOR G.M.P. TENDER	GDH					

Design GDH
Drawn BWP
Checked
Submitted
Approved

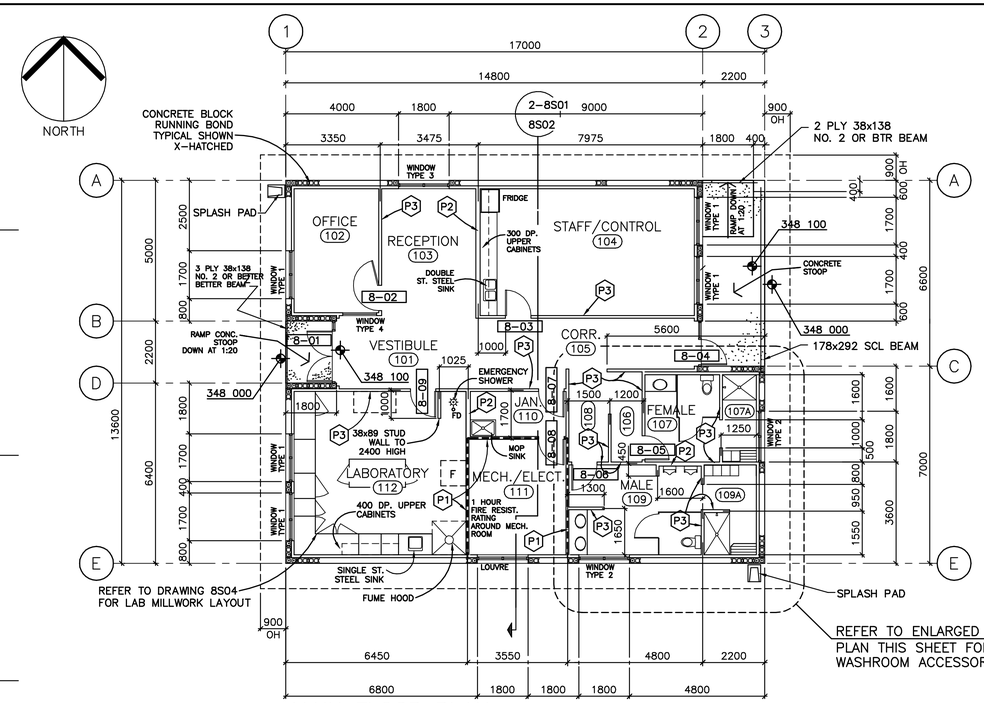
THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 8
Reid Crowther 39844

ADMINISTRATION BUILDING
FOUNDATION PLAN

Scale 1:50
Date JUNE 1996
City File
Sheet 1 of 5
Drawing 8S01

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 4

DESIGN ENG\TECH
DESIGN COORD.
SWWTPA1 H:\PROJECTS\DWG\39844400\02A\123A\STRUCT\8\39448501 Plotted: 1998-05-28



MAIN FLOOR PLAN

1:100

WALL LEGEND

P1 FINISH AS PER SCHEDULE
16mm TYPE X GYPSUM BOARD
12mm TYPE X GYPSUM BOARD
38x140 WOOD STUDS AT 406mm O.C.
12mm TYPE X GYPSUM BOARD
16mm TYPE X GYPSUM BOARD
FINISH AS PER SCHEDULE
FIRE RESISTANCE RATING 1 HOUR

P2 FINISH AS PER SCHEDULE
16mm TYPE X GYPSUM BOARD
38x140 WOOD STUDS AT 406mm O.C.
89mm ACOUSTIC INSULATION
16mm TYPE X GYPSUM BOARD
FINISH AS PER SCHEDULE

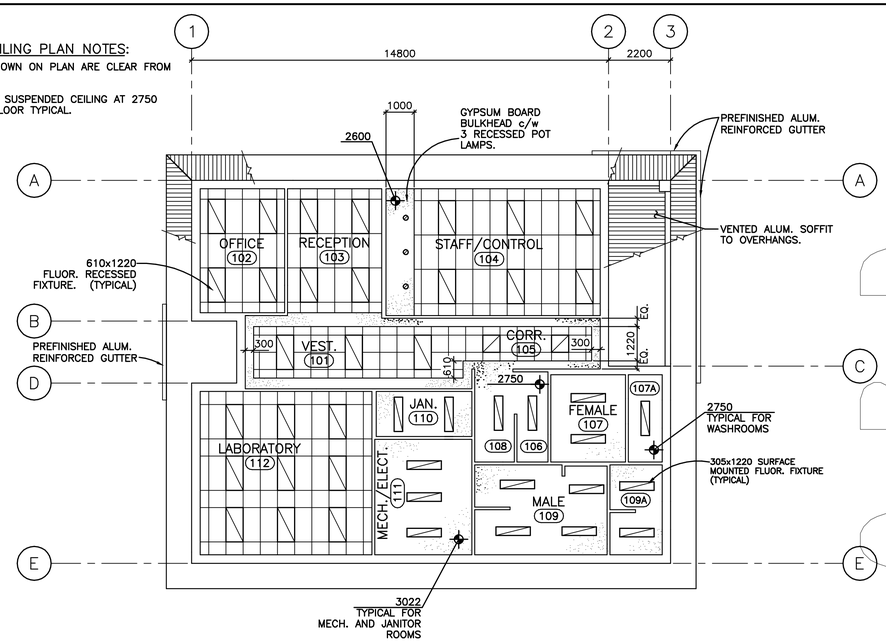
P3 FINISH AS PER SCHEDULE
16mm TYPE X GYPSUM BOARD
38x89 WOOD STUDS AT 406mm O.C.
89mm ACOUSTIC INSULATION
16mm TYPE X GYPSUM BOARD
FINISH AS PER SCHEDULE

NOTES:

1. REFER TO DRAWING A2 FOR WINDOW ELEVATIONS
2. REFER TO SPECIFICATIONS FOR DOOR, WINDOW, MILLWORK, HARDWARE AND ROOM FINISH SCHEDULE.

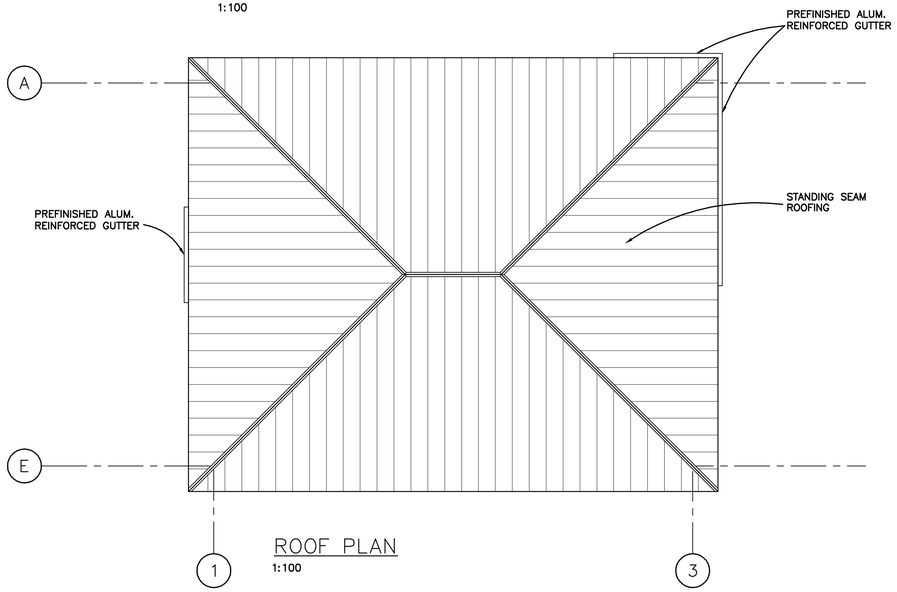
REFLECTED CEILING PLAN NOTES:

1. ELEVATIONS SHOWN ON PLAN ARE CLEAR FROM MAIN FLOOR.
2. UNDERSIDE OF SUSPENDED CEILING AT 2750 ABOVE MAIN FLOOR TYPICAL.



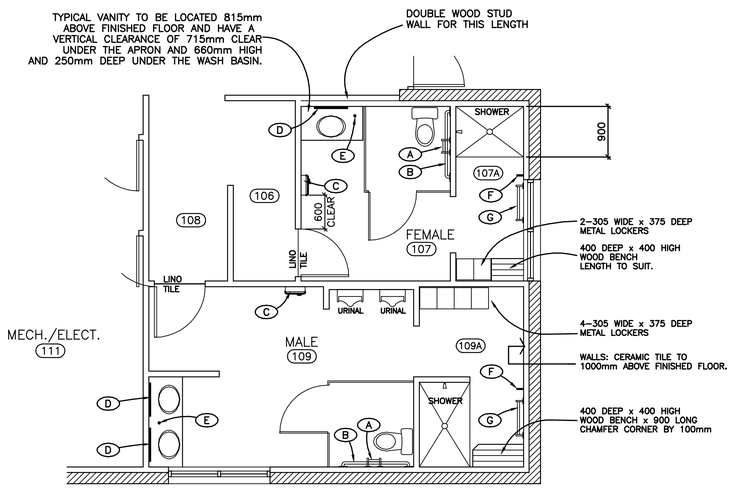
REFLECTED CEILING PLAN

1:100



ROOF PLAN

1:100



ENLARGED WASHROOM PLAN

1:50

WASHROOM ACCESSORIES

(ALL PIPES TO BE INSULATED)

(A) SINGLE ROLL TOILET TISSUE DISPENSER. MOUNT 600mm ABOVE FINISH FLOOR.

(B) 35mm DIA. STAINLESS STEEL GRAB BAR x 1200 LONG MOUNTED WITH THE MID-POINT OF THE LENGTH IN LINE WITH THE FRONT EDGE OF THE WATER CLOSET AND THE CENTRELINE OF THE BAR AT 840mm ABOVE THE FINISHED FLOOR.

(C) WALL MOUNTED HAND DRYER USER FUNCTION MOUNTED 1100mm ABOVE FINISHED FLOOR.

(D) 600mm WIDE x 900mm HIGH WALL MOUNTED MIRROR. MOUNT SILL OF MIRROR AT 1000mm ABOVE FINISHED FLOOR.

(E) VANITY MOUNTED SOAP DISPENSER (RESERVOIR MOUNTED UNDER VANITY TOP.)

(F) WALL MOUNTED ROBE HOOK. MOUNT CENTRELINE 1200mm ABOVE FINISHED FLOOR.

(G) 600mm LONG STAINLESS STEEL TOWEL BAR. MOUNT CENTRELINE OF BAR 1200mm ABOVE FINISHED FLOOR.

DESIGN COORD. | DESIGN ENG\TECH

SWWTP A1 H:\PROJECTS\ENV\03884400\02A\123A\STRUCT\8 08448502 Plotted 1997-04-14

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4	FEB. 98	BWP	RECORD DRAWING	GDH
3	30MAY97	BWP	APPROVED FOR CONSTRUCTION, C.O. 4	GDH
2	25APR97	BWP	ISSUED FOR CONSTRUCTION	GDH
1	JULY 96	BWP	ISSUED FOR G.M.P. TENDER	GDH

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PLANNING DESIGN
3-2908 32nd St.
Vernon, B.C. V1T 5M1
Tel/Fax: (604) 260-1450

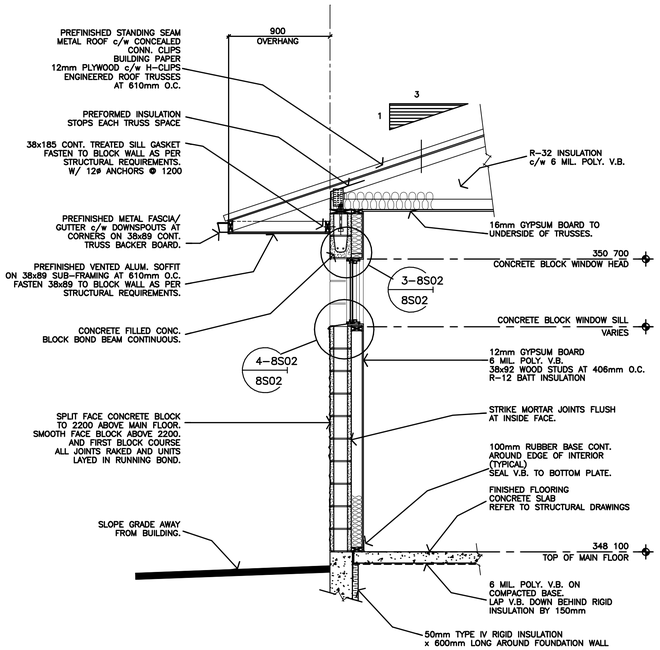
Design	GDH
Drawn	BWP
Checked	
Submitted	
Approved	

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 8
OPERATIONS / ADMINISTRATION BUILDING
MAIN FLOOR PLAN

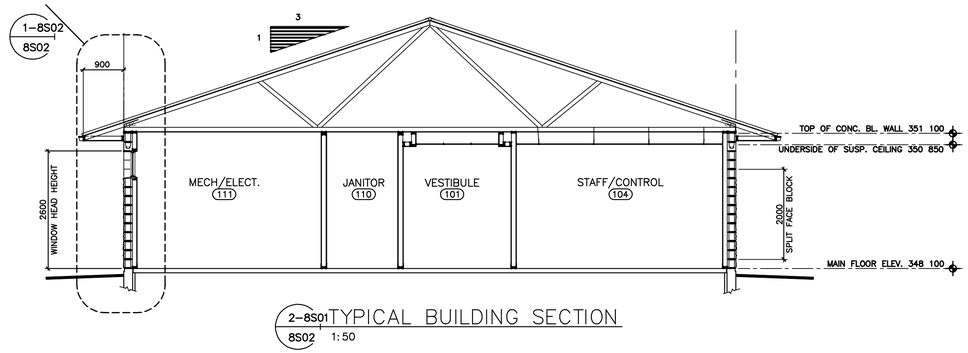
Reid Crowther 39844

Scale	
Date	
City File	
Sheet	2 of 5
Drawing	8S02

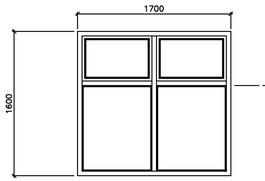
SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 4



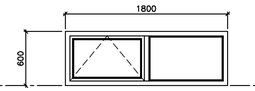
1-8S01 / 8S02 TYPICAL WALL SECTION 1:20



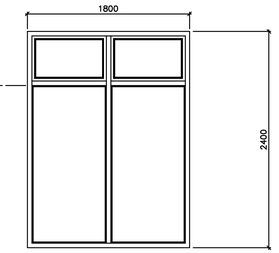
2-8S01 / 8S02 TYPICAL BUILDING SECTION 1:50



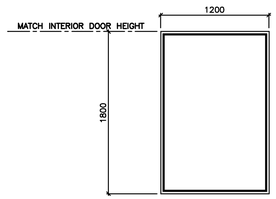
WINDOW TYPE 1
ALUMINUM FRAME
SCALE 1:25



WINDOW TYPE 2
ALUMINUM FRAME
SCALE 1:25

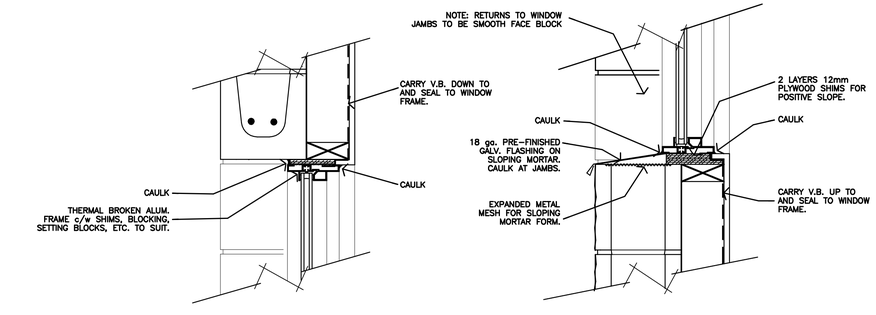


WINDOW TYPE 3
ALUMINUM FRAME
SCALE 1:25



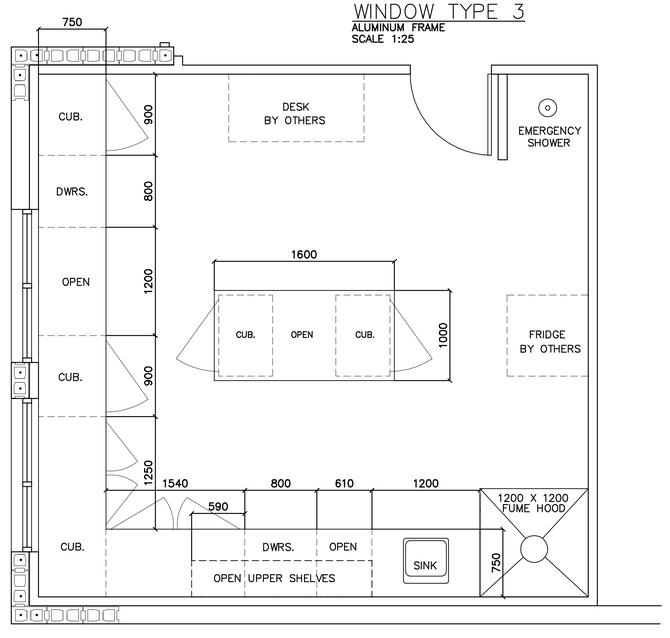
WINDOW TYPE 4
WOOD FRAME
SCALE 1:25

NOTE:
WINDOW DIMENSIONS SHOWN ARE NOMINAL ONLY. CONFIRM EXACT DIMENSIONS ON SITE BEFORE WINDOW FABRICATION.



3-8S02 / 8S02 TYPICAL WINDOW HEAD 1:5

4-8S02 / 8S02 TYPICAL WINDOW SILL 1:5



LAB MILLWORK LAYOUT
SCALE 1:25

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3	30MAY97	BWP	APPROVED FOR CONSTRUCTION, C.O. 4	GDH
2	26APR97	BWP	ISSUED FOR CONSTRUCTION	GDH
1	JULY 96	BWP	ISSUED FOR G.M.P. TENDER	GDH

P.Q.A. PLANNING DESIGN
3-2908 32nd St. Vernon, B.C. V1T 5M1
Tel/Fax: (604) 260-1450

Design P.Q.A.
Drawn
Checked
Submitted
Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 8

Reid Crowther 39844

ADMINISTRATION BUILDING
BUILDING SECTIONS & DETAILS

Scale AS NOTED
Date JUNE 1996
City File
Sheet 3 of 5
Drawing 8S03

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 4

RECORD

DESIGN ENG\TECH
DESIGN COORD.
Plotted 1997-04-11
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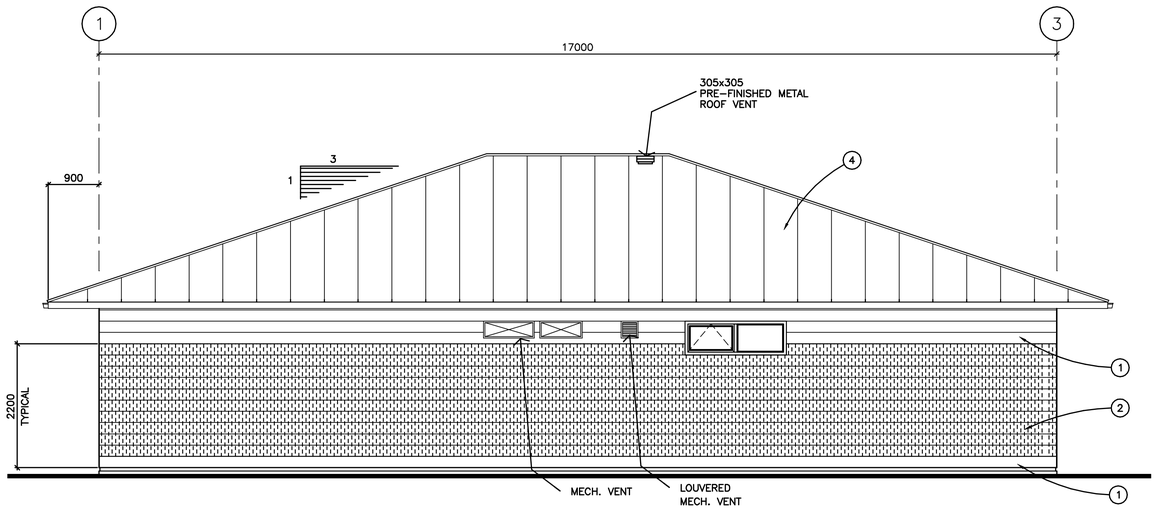

SOUTH ELEVATION

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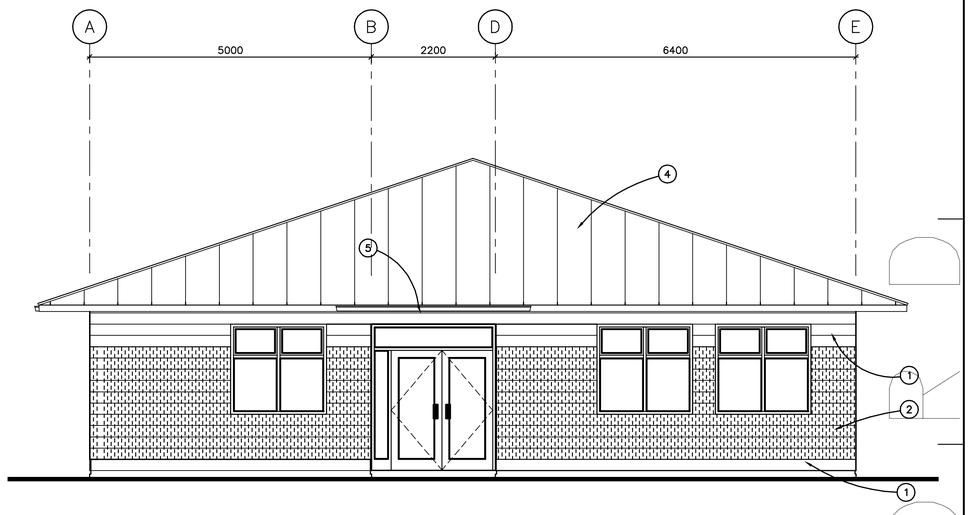
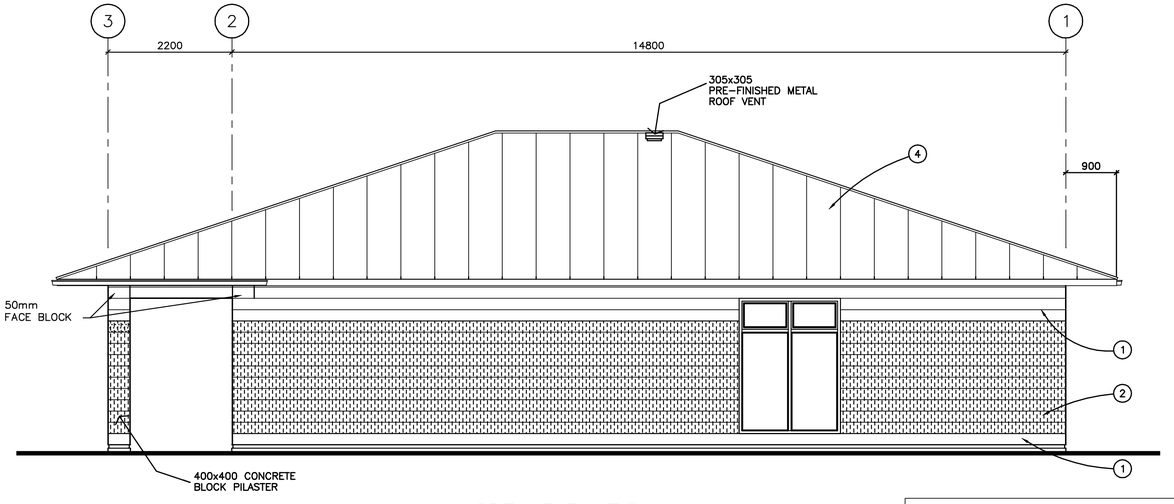


WEST ELEVATION

1:50

EXTERIOR FINISHES

1. SMOOTH FACED CONCRETE BLOCK
2. COLOURED SPLIT FACED CONCRETE BLOCK
3. EXPOSED CONCRETE
4. PRE-FINISHED STANDING SEAM METAL ROOF
5. PREFINISHED METAL EAVESTROUGH & FASCIA



NORTH ELEVATION

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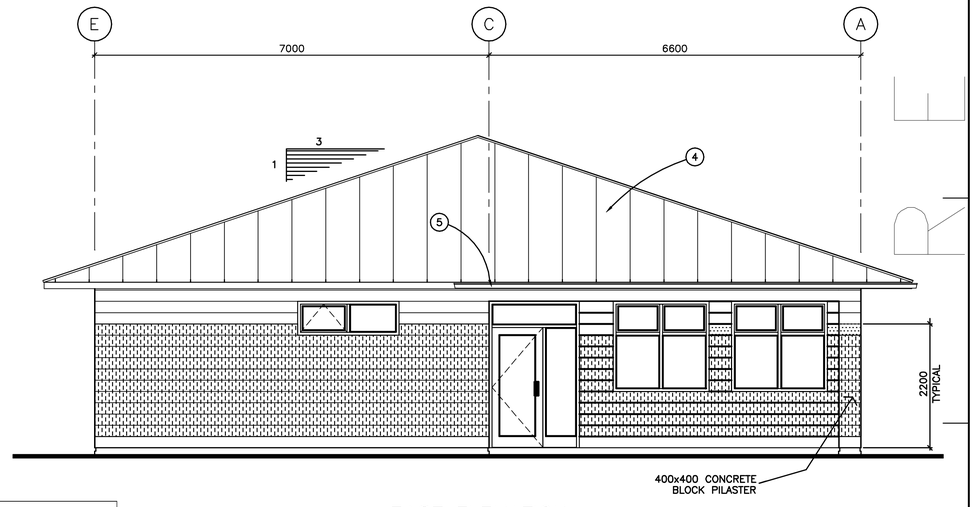

EAST ELEVATION

1:50

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
4	FEB. 98	BWP	RECORD DRAWING	GDH					
3	MAY3097	BWP	APPROVED FOR CONSTRUCTION, C.O. 4	GDH					
2	25APR97	BWP	ISSUED FOR CONSTRUCTION	GDH					
1	JULY 96	BWP	ISSUED FOR G.M.P. TENDER	GDH					

PLANNING DESIGN
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Vernon, B.C. V1T 5M1
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Approved

THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT
AREA 8

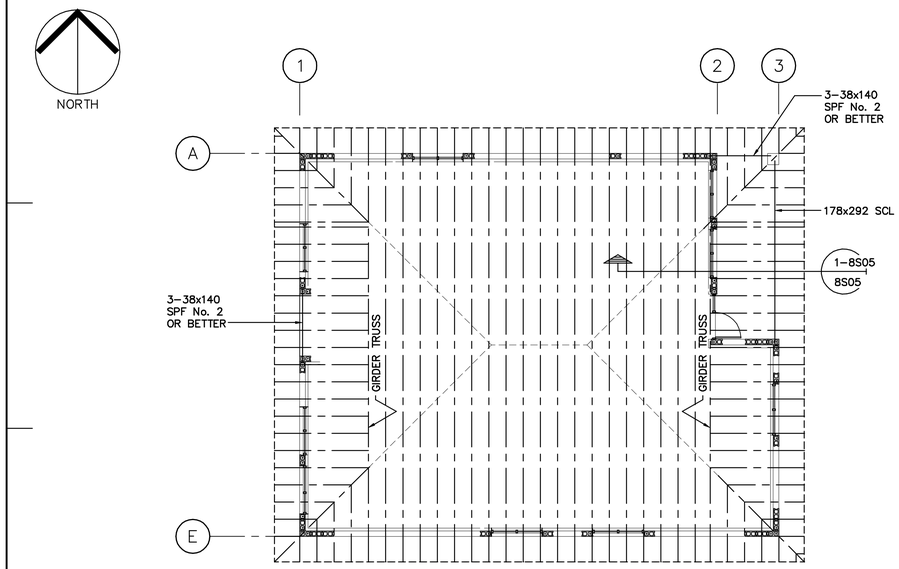
Reid Crowther
39844

ADMINISTRATION BUILDING
ELEVATIONS

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 4

Scale 1:50
Date
City File
Sheet 4 of 5
Drawing 8S04

DESIGN ENG\TECH
DESIGN COORD.
Plotted 1997-04-11
H:\PROJECTS\SWV\03984400\02A\1234\STRUCT\8S448S04
SWWTPA1



ROOF FRAMING PLAN

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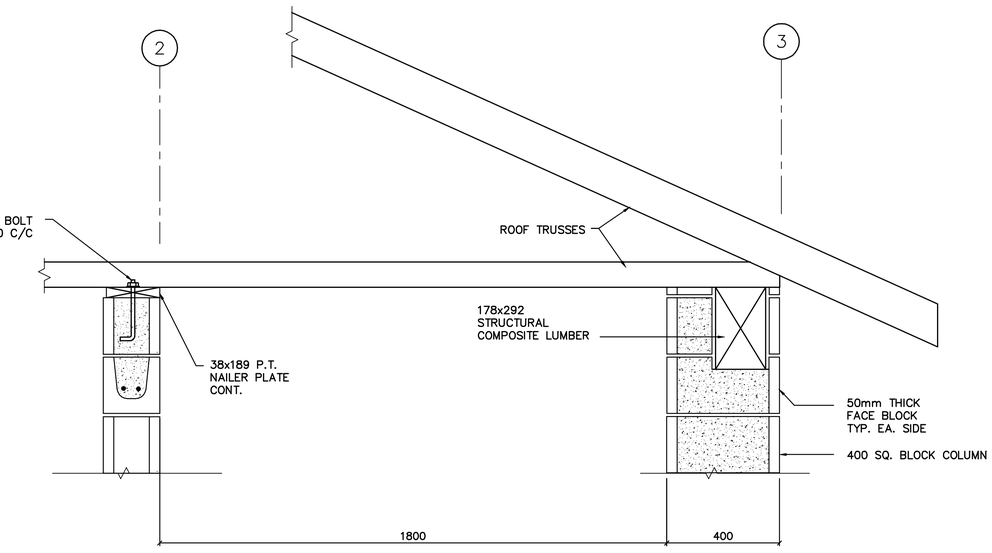
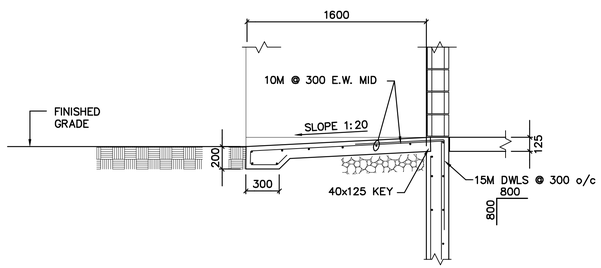


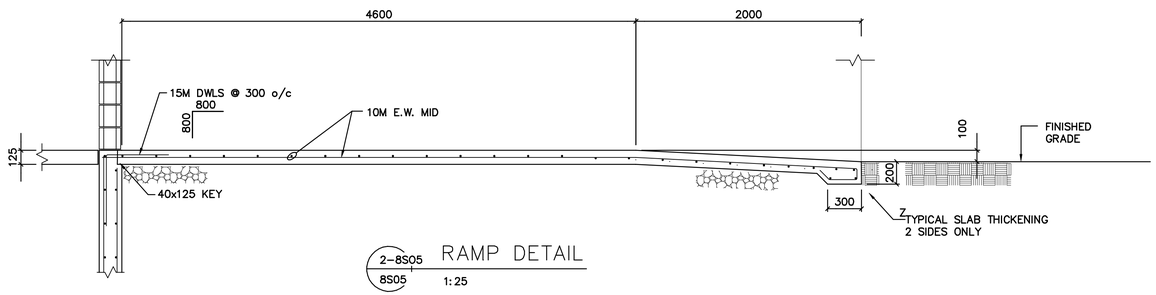
1–8S05 / 8S05 OVERHANG DETAIL

1:10



2–8S01 / 8S05 RAMP DETAIL

1:25



2–8S05 / 8S05 RAMP DETAIL

1:25

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No.	Date	By	Revision	Chkd	No.	Date	By	Revision	Chkd
4	FEB. 98	BWP	RECORD DRAWING	GDH					
3	3JUNE97	BWP	APPROVED FOR CONSTRUCTION, C.O. 4	GDH					
2	25APR97	BWP	ISSUED FOR CONSTRUCTION	GDH					
1	JULY 96	BWP	ISSUED FOR G.M.P. TENDER	GDH					

PLANNING DESIGN
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Vernon, B.C. V1T 5M1
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THE CORPORATION OF THE DISTRICT OF SUMMERLAND
WASTEWATER TREATMENT PLANT

AREA 8

OPERATIONS / ADMINISTRATION BUILDING
ROOF PLAN

Reid Crowther 39844

Scale	
Date	
City File	
Sheet	5 of 5
Drawing	8S05

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → 4

RECORD

SWMTPA1 H:\PROJECTS\DWV\03984400\02A\123A\STRUCT\8\8448S05 Plotted 1997-05-28 DESIGN COORD. DESIGN ENG\TECH