



RESORT MUNICIPALITY OF WHISTLER

RAINBOW PARK PUMP STATION

CONTRACT No. 179.75.1

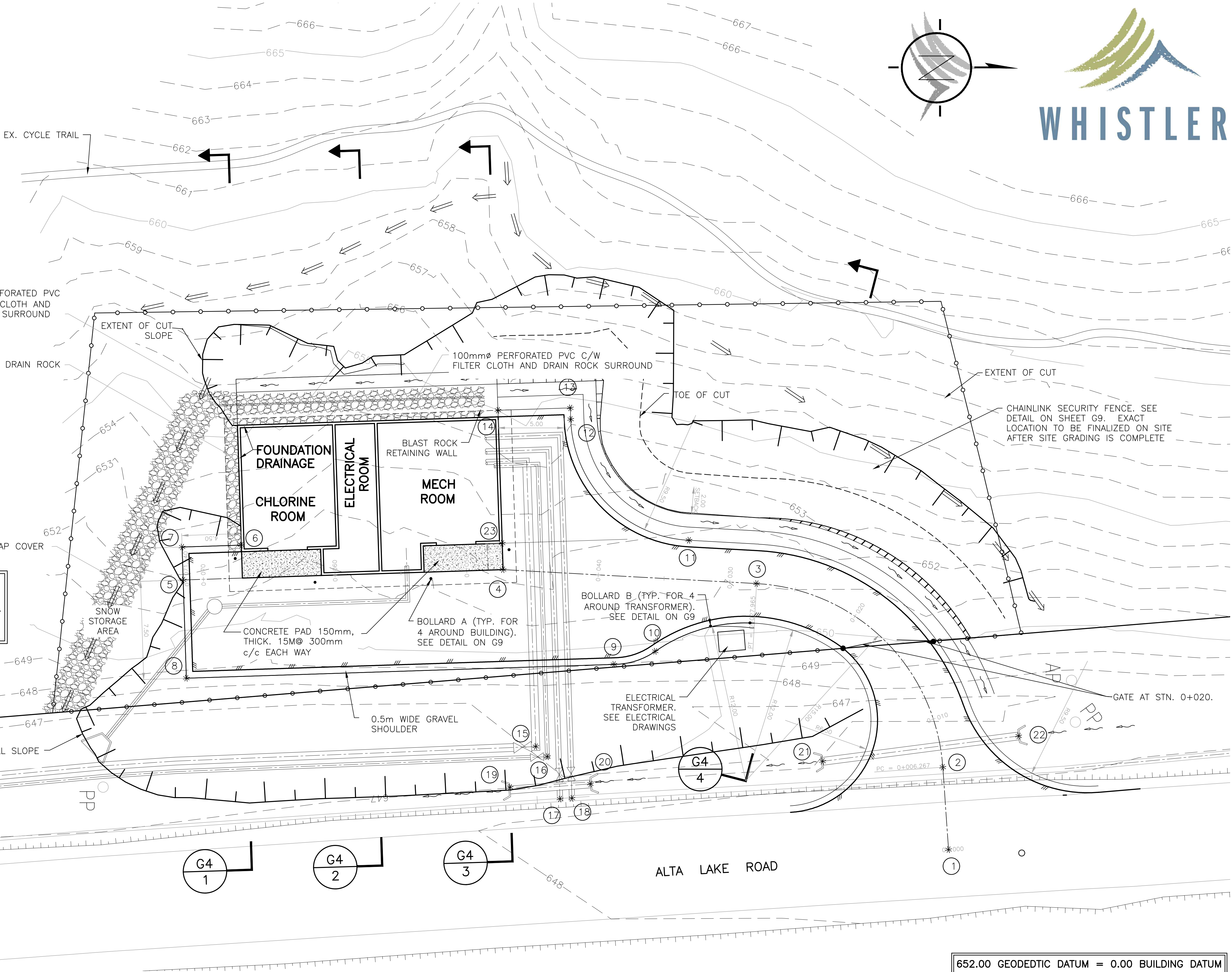


RECORD DRAWINGS

LAYOUT COORDINATES					
#	NORTHING	EASTING	#	NORTHING	EASTING
1	5,552,280.75	501,006.62	17	5552251.254	501002.776
2	5552280.317	501000.368	18	5552252.160	501002.727
3	5552266.177	500986.430	19	5552247.459	501001.897
4	5552246.930	500985.371	20	5552253.561	501001.634
5	5552222.643	500986.156	21	5552271.193	500999.919
6	5552227.060	500983.512	22	5552286.069	500997.996
7	5552222.562	500983.657	23	5552246.866	500983.372
8	5552222.884	500993.611			
9	5552255.340	500992.562			
10	5552258.483	500991.568			
11	5552261.038	500983.143			
12	5552252.064	500973.964			
13	5552252.037	500973.100			
14	5552246.539	500973.277			
15	5552249.419	500998.801			
16	5552250.297	500999.566			

NOTES:
1. LAYOUT COORDINATES AND DIMENSIONS FOR ROAD AND PARKING AREA (POINTS #6 - 14) ARE TO SHOULDER OF GRAVEL. ASPHALT SURFACE IS 0.5m OFFSET.

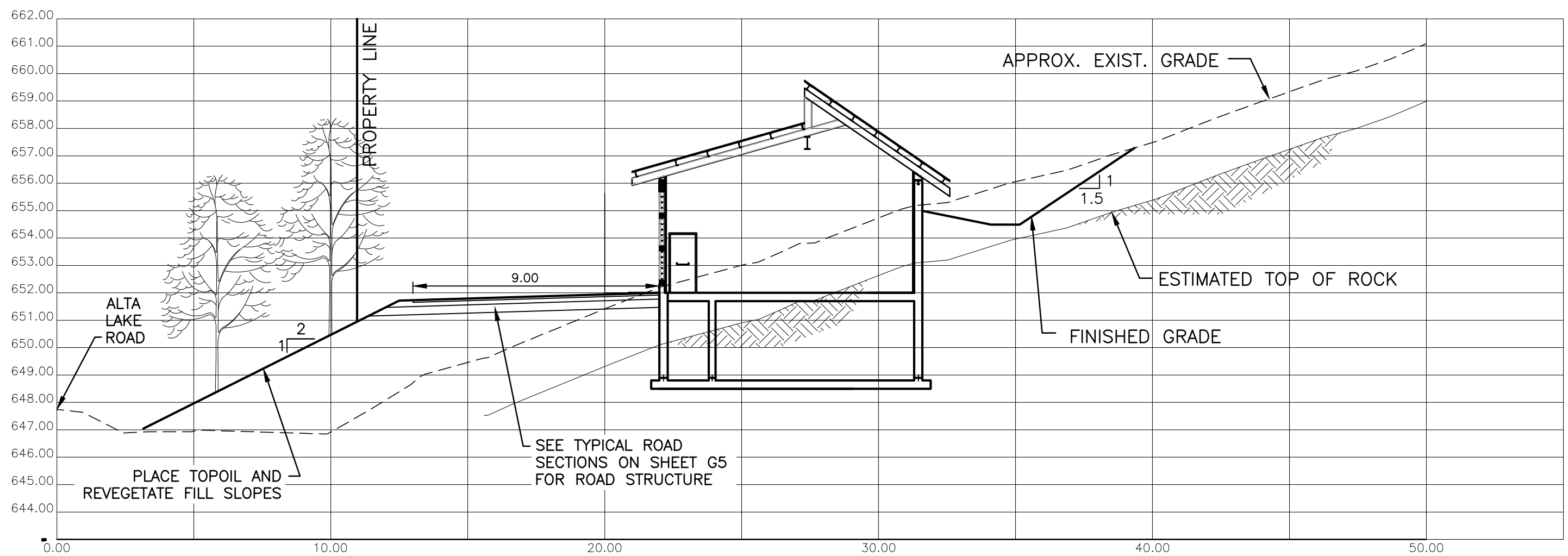
100MMØ PERFORATED PVC C/W FILTER CLOTH AND DRAIN ROCK SURROUND



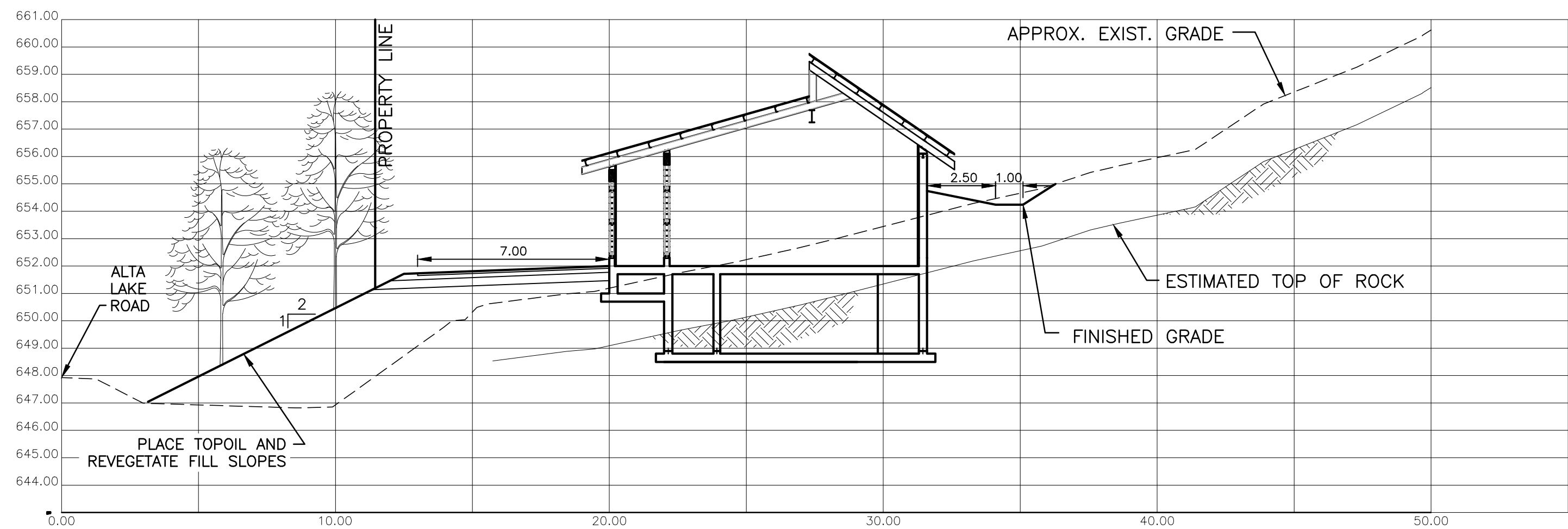
652.00 GEODETIC DATUM = 0.00 BUILDING DATUM

PLOT: FULL 1:1 HALF 1:2

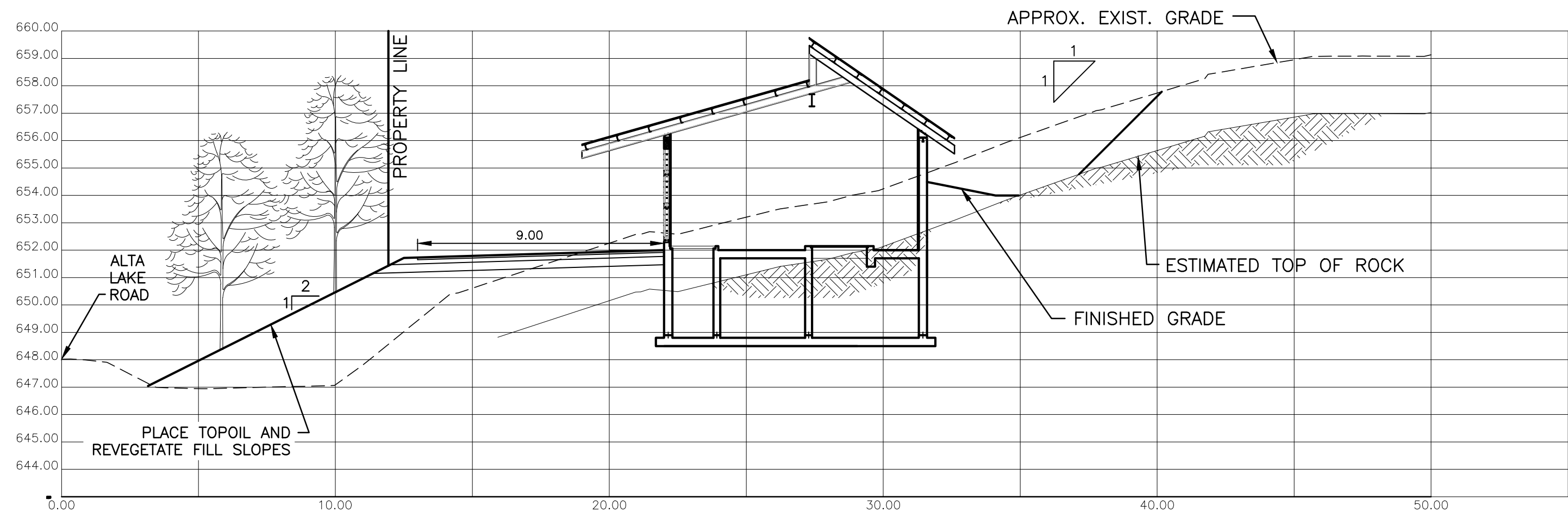
AutoCAD DRAWING	REVISIONS	ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION					ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION					DESIGNED <u> PW </u>			Dayton & Knight Ltd. CONSULTING ENGINEERS #210-880 HARBOURSIDE DR., NORTH VANCOUVER, B.C. V7P 3S1 TEL: (604) 990-4800 FAX: (604) 990-4805 www.dayton-knight.com	RESORT MUNICIPALITY OF WHISTLER RAINBOW PARK PUMP STATION SITE LAYOUT					SCALE: 1 : 150		
		A	MAY12/08	PW	PW	WB	ISSUED FOR TENDER					D	DEC16/09	AS	WB	WB	RECORD DRAWING					DRAWN <u> PW </u>									DRAWING No. 179.75.1		
		B	JUN03/08	KS	WB	WB	△ ADDENDUM No. 2										CHECKED <u> WB </u>		SHEET No.			G2	ISSUE								D		
		C	JUL8/08	KS	WB	WB	△ ISSUED FOR CONSTRUCTION																										



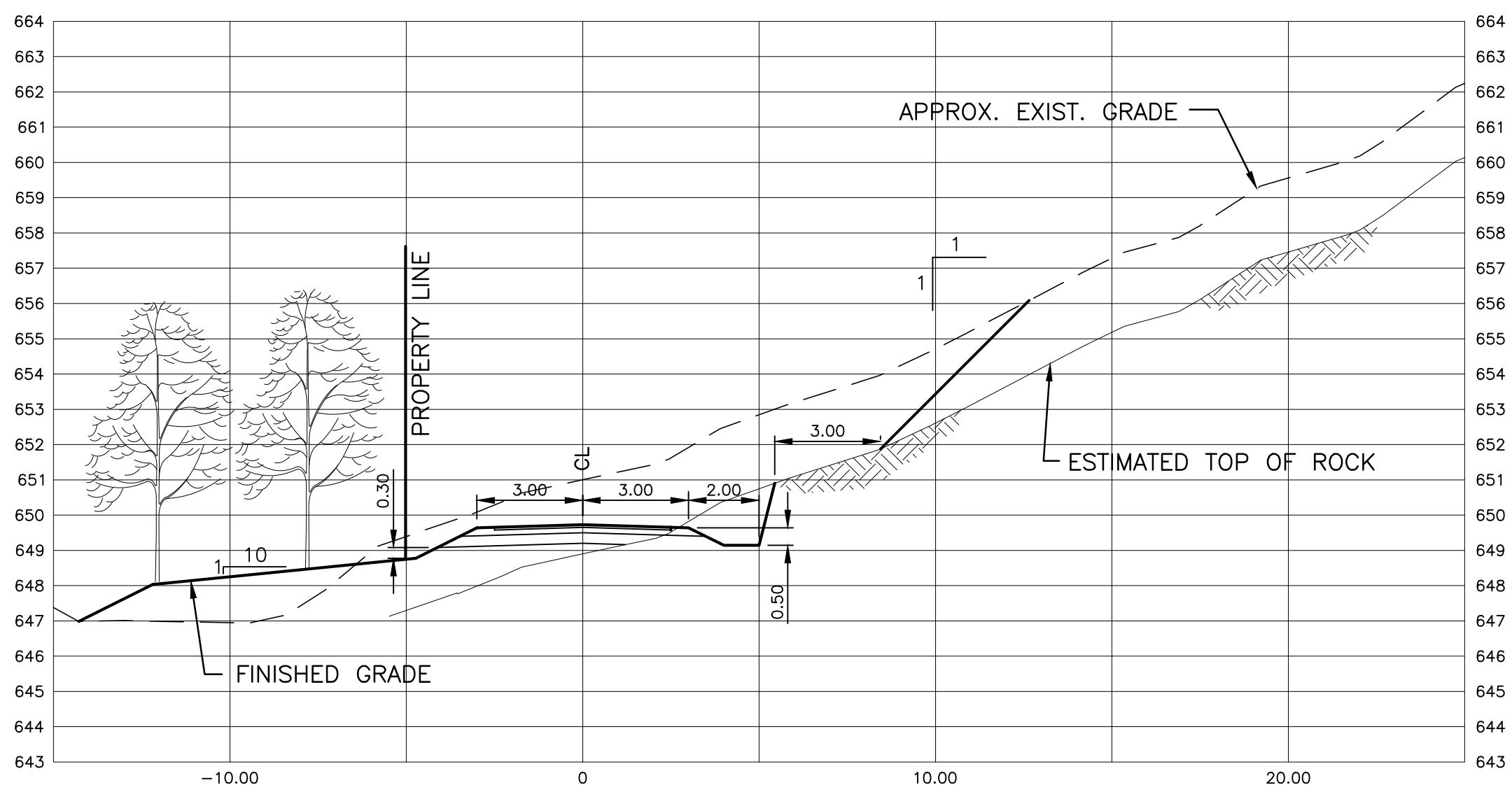
SECTION 1 G2 1 G3



SECTION 3 G2 2 G2

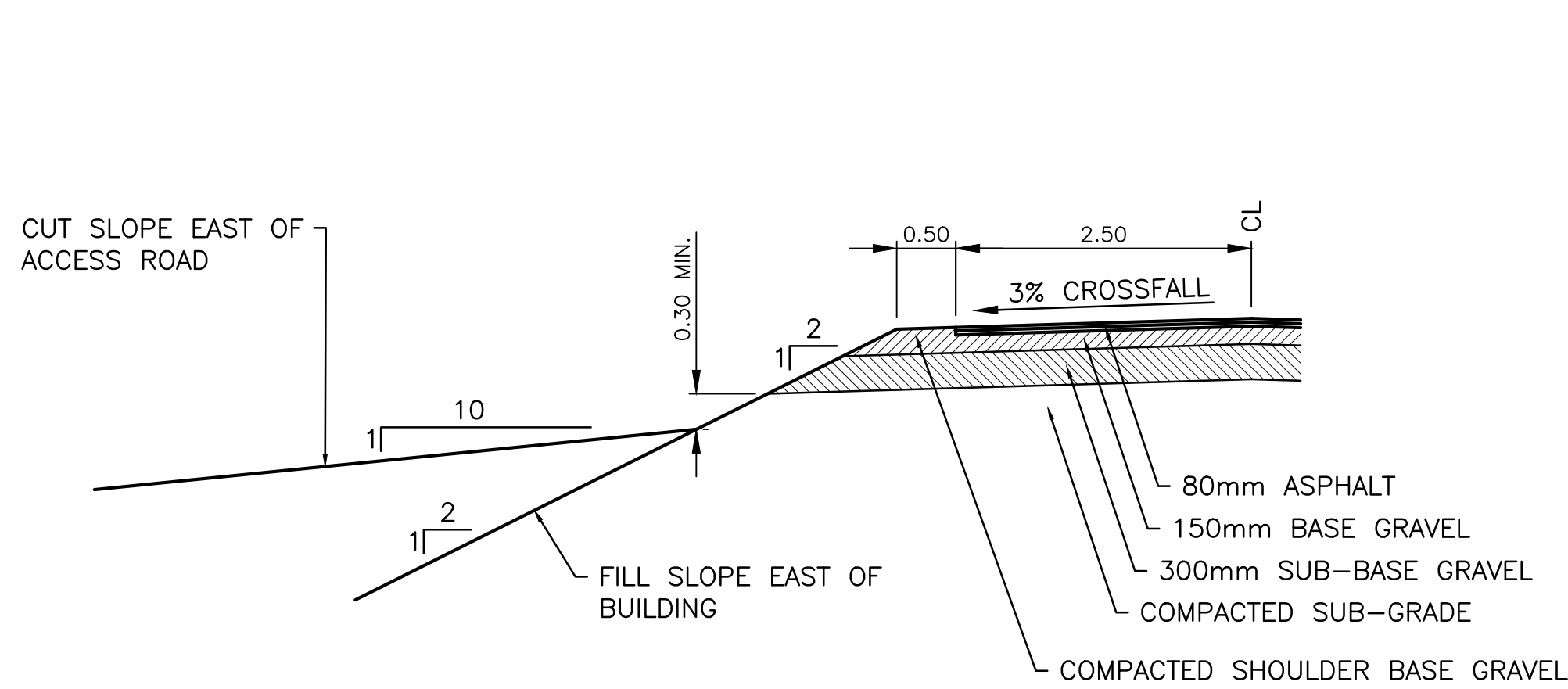


SECTION 3 G2 3 G3



SECTION 4 G2 4 G3

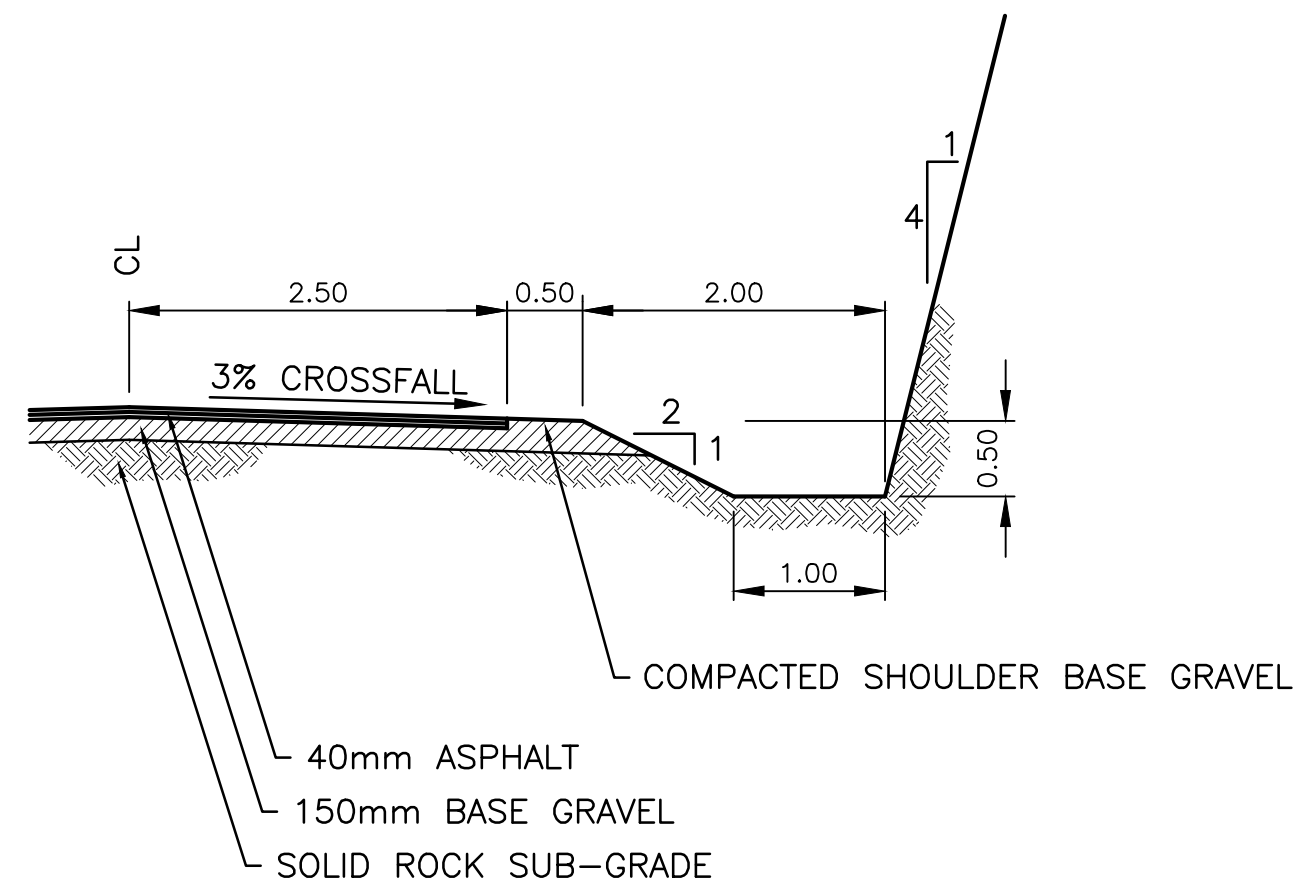
"These Record Drawings have been prepared based on information provided by the Contractor and others. Dayton & Knight Ltd. has not verified the accuracy or completeness of the information provided to them and does not warrant the accuracy or completeness of these Record Drawings. Users of these Record Drawings assume all risk of loss resulting from their use."



NOTE: CROSSFALL VARIES IN TURNING AND PARKING AREA. SEE SHEET G3 FOR GRADING IN THESE AREAS.

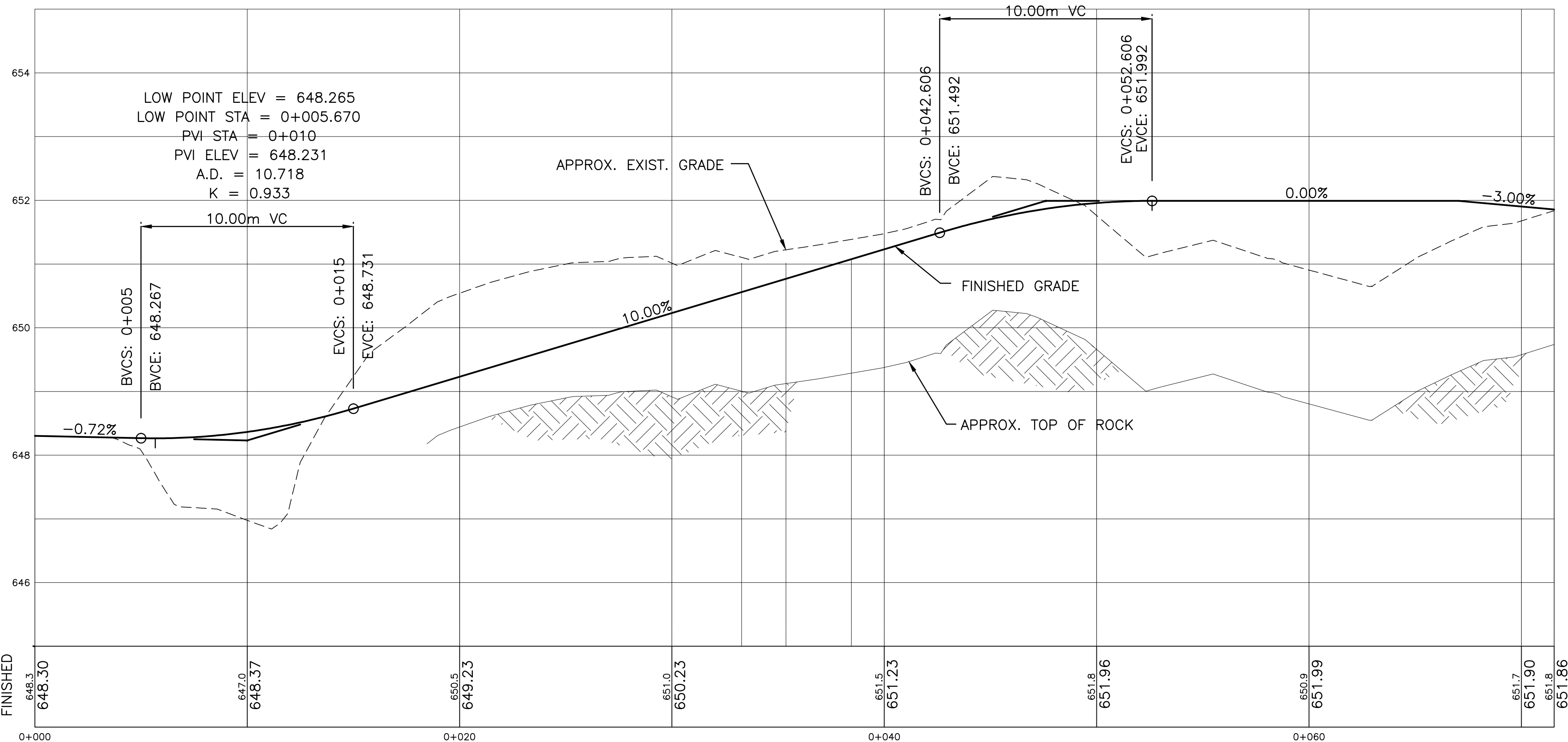
TYPICAL ROAD SECTION ON SOIL

SCALE: 1:50



TYPICAL ROAD SECTION ON ROCK

HIGH POINT ELEV = 651.992
HIGH POINT STA = 0+052.606
PVI STA = 0+047.606
PVI ELEV = 651.992
A.D. = -10.000
K = 1.000



ROAD PROFILE

SCALE: H 1: 150 V 1:50

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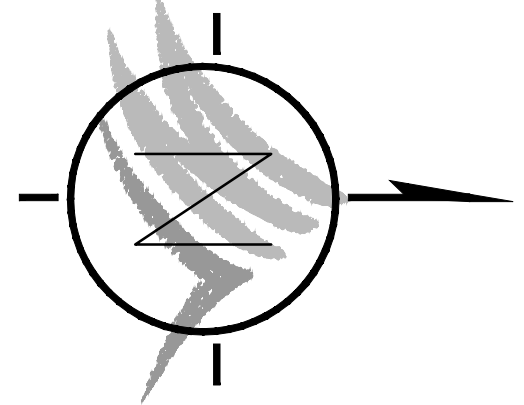
AutoCAD DRAWING					PLOT: FULL 1:1 HALF 1:2																			
REVISIONS	ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION	ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION	DESIGNED	PW										
	A	MAY12/08	PW	PW	WB	ISSUED FOR TENDER																		
	B	JUL8/08	KS	WB	WB	ISSUED FOR CONSTRUCTION																		
	C	DEC16/09	AS	WB	WB	RECORD DRAWING																		

DESIGNED PW									
DRAWN PW									
CHECKED WB									

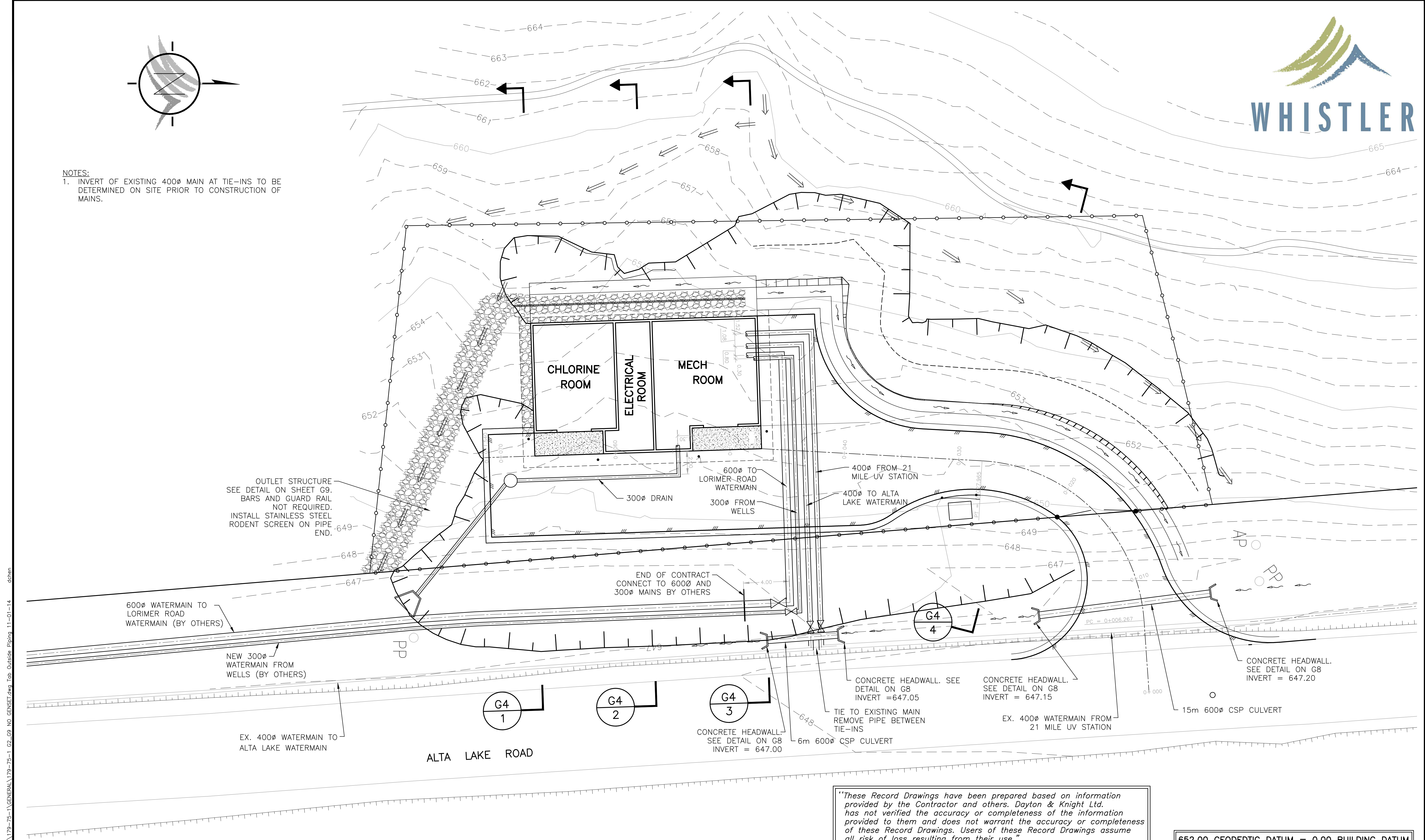
Dayton & Knight Ltd.									
CONSULTING ENGINEERS									
#210-880 HARBOURSIDE DR., NORTH VANCOUVER, B.C. V7P 3S1									
TEL.: (604) 990-4800 FAX: (604) 990-4805 www.dayton-knight.com									

RESORT MUNICIPALITY OF WHISTLER									
RAINBOW PARK PUMP STATION									
ROAD PROFILE, TYPICAL ROAD SECTIONS, DETAILS									

SCALE: 1 : 250									
DRAWING No. 179.75.1									
SHEET No.		G5		ISSUE		C			



NOTES:
1. INVERT OF EXISTING 400Ø MAIN AT TIE-INS TO BE DETERMINED ON SITE PRIOR TO CONSTRUCTION OF MAINS.

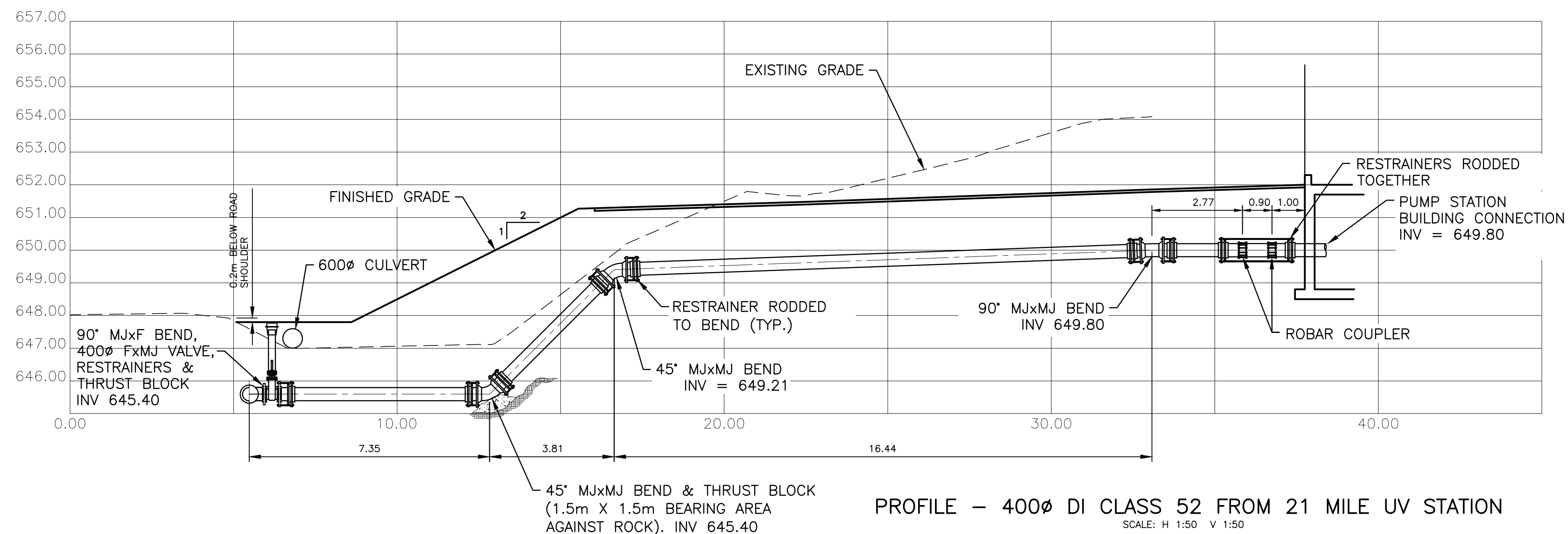
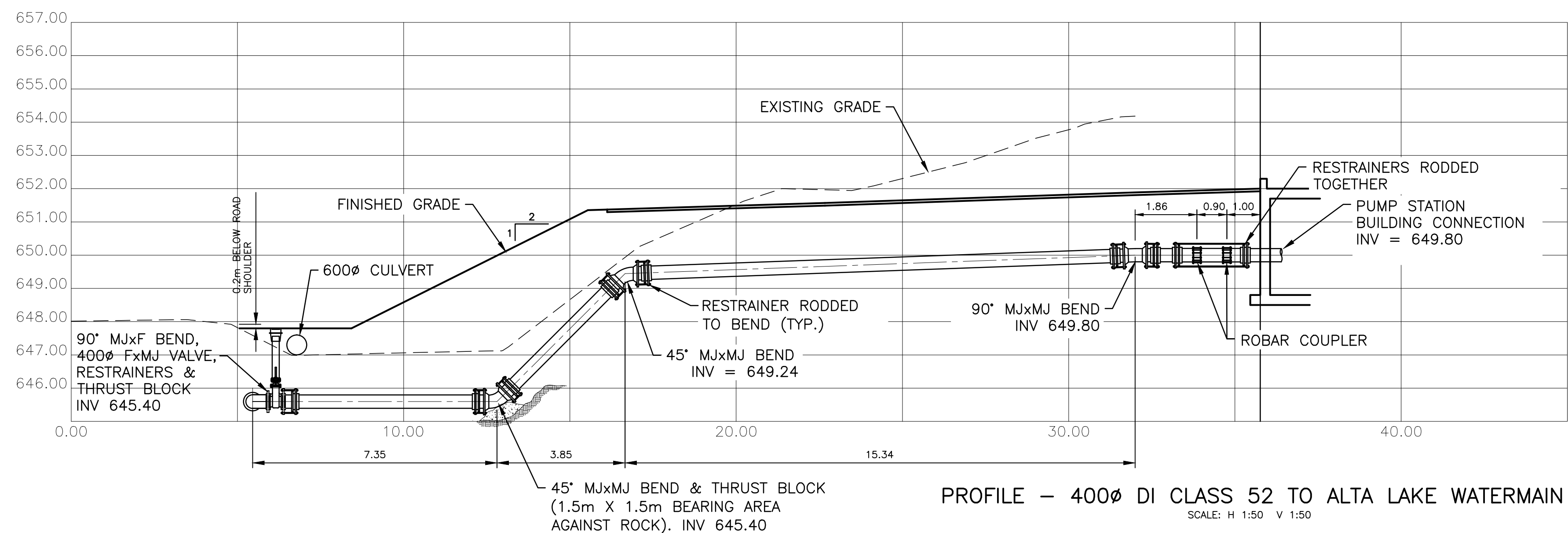
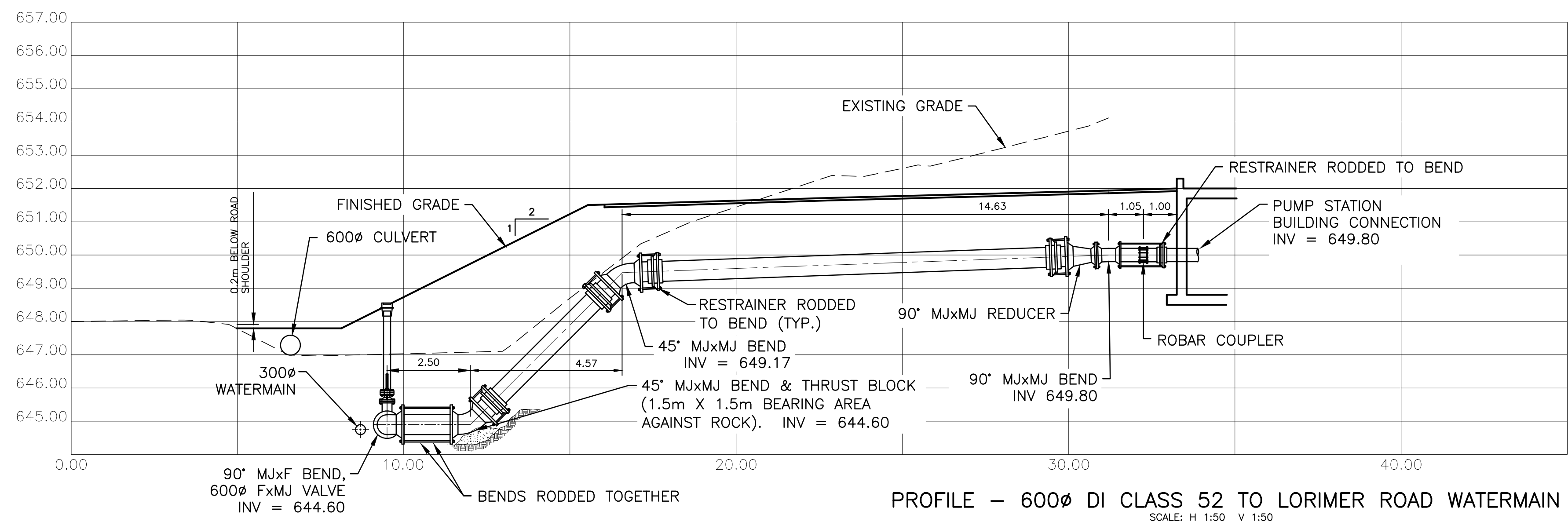


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652.00 GEODETIC DATUM = 0.00 BUILDING DATUM

FILE: P:\Records\WHISTLER\179-75-1\GENERAL\179-75-1 G2 G8 NO GENSET.dwg Job Outside Piping 11-01-14 dchen

PLOT: FULL 1:1 HALF 1:2												DESIGNED PW		 Dayton & Knight Ltd. CONSULTING ENGINEERS #210-880 HARBORSIDE DR., NORTH VANCOUVER, B.C. V7P 3S1 TEL: (604) 990-4800 FAX: (604) 990-4805 www.dayton-knight.com	RESORT MUNICIPALITY OF WHISTLER RAINBOW PARK PUMP STATION OUTSIDE PIPING			SCALE: 1 : 150		
AutoCAD DRAWING	REVISIONS	ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION	ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION		DRAWING No. 179.75.1			SHEET No. G6 ISSUE C		
		A	MAY12/08	PW	PW	WB	ISSUED FOR TENDER													
		B	JUL8/08	KS	WB	WB	ISSUED FOR CONSTRUCTION													
		C	DEC16/09	AS	WB	WB	RECORD DRAWING													



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652.00 GEODETIC DATUM = 0.00 BUILDING DATUM

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PLOT: FULL 1:1 HALF 1:2

AutoCAD DRAWING
REVISIONS

ISSUE	DATE	DRAWN	CHK'D	APP'D
B	MAY12/08	PW	PW	WB
B	JUL8/08	KS	WB	WB
C	DEC16/09	AS	WB	WB

DESCRIPTION
ISSUED FOR TENDER
ISSUED FOR CONSTRUCTION
RECORD DRAWING

ISSUE	DATE	DRAWN	CHK'D	APP'D

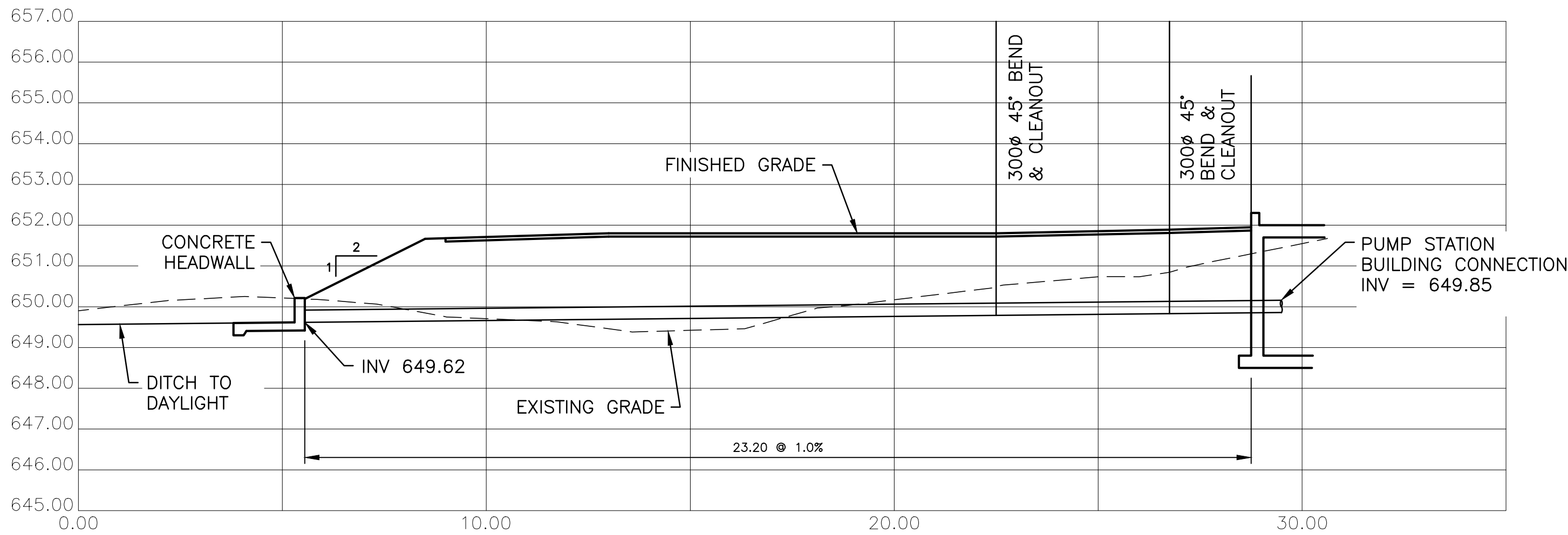
DESCRIPTION

DESIGNED	PW
DRAWN	PW
CHECKED	WB

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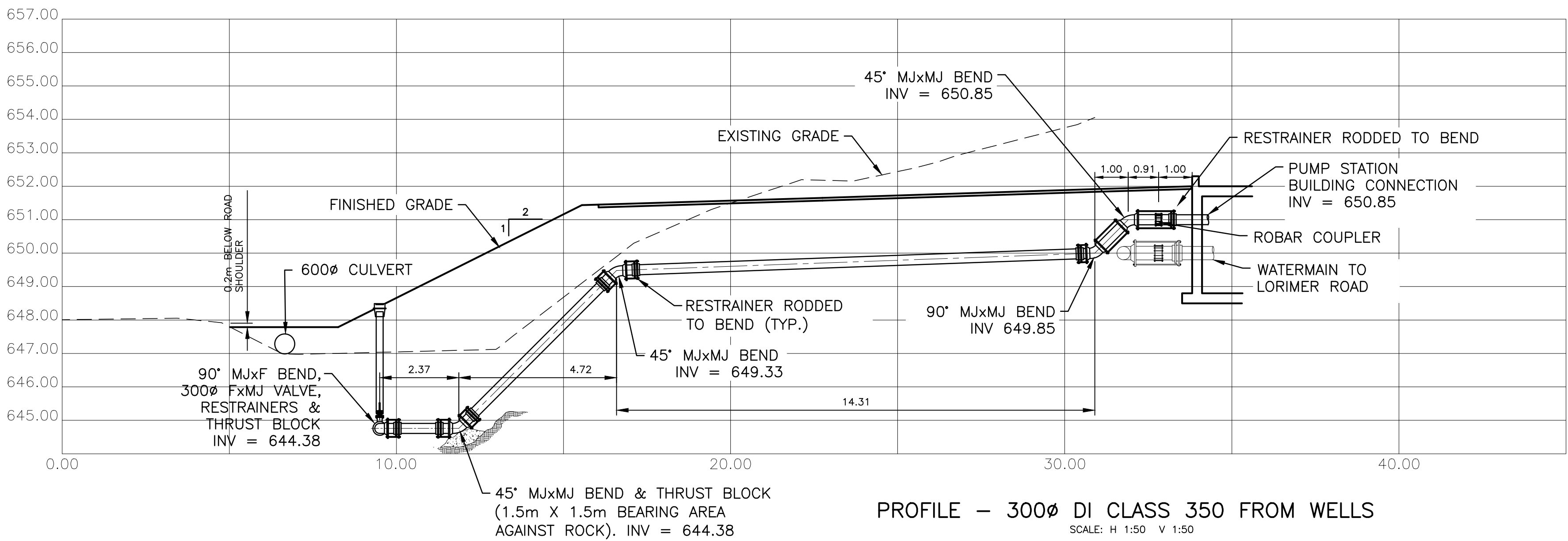
RESORT MUNICIPALITY OF WHISTLER
RAINBOW PARK PUMP STATION
OUTSIDE PIPING PROFILES

SCALE: 1 : 100
DRAWING No. 179.75.1
SHEET No. G7 ISSUE C



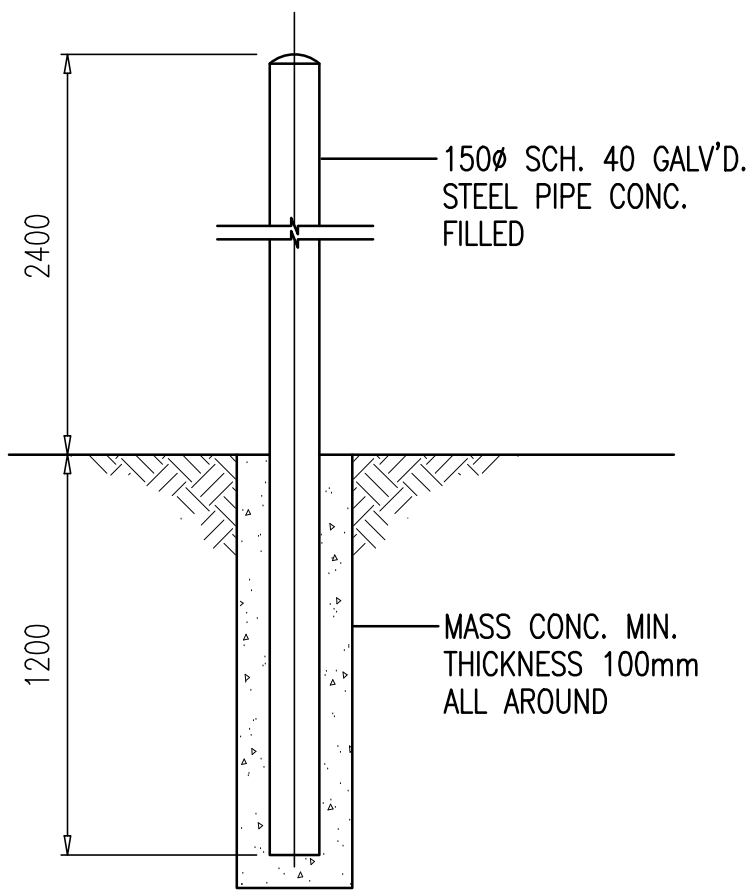
PROFILE - 300mm PVC DRAIN

SCALE: H 1:50 V 1:50

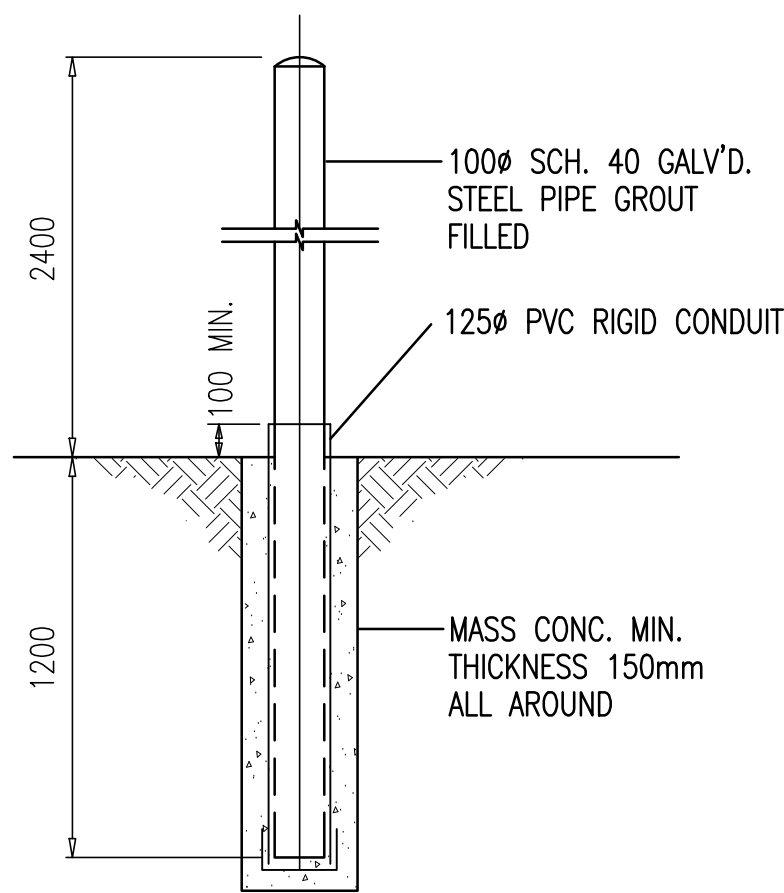


PROFILE - 300mm DI CLASS 350 FROM WELLS

SCALE: H 1:50 V 1:50



BOLLARD TYPE A DETAIL



BOLLARD TYPE B DETAIL

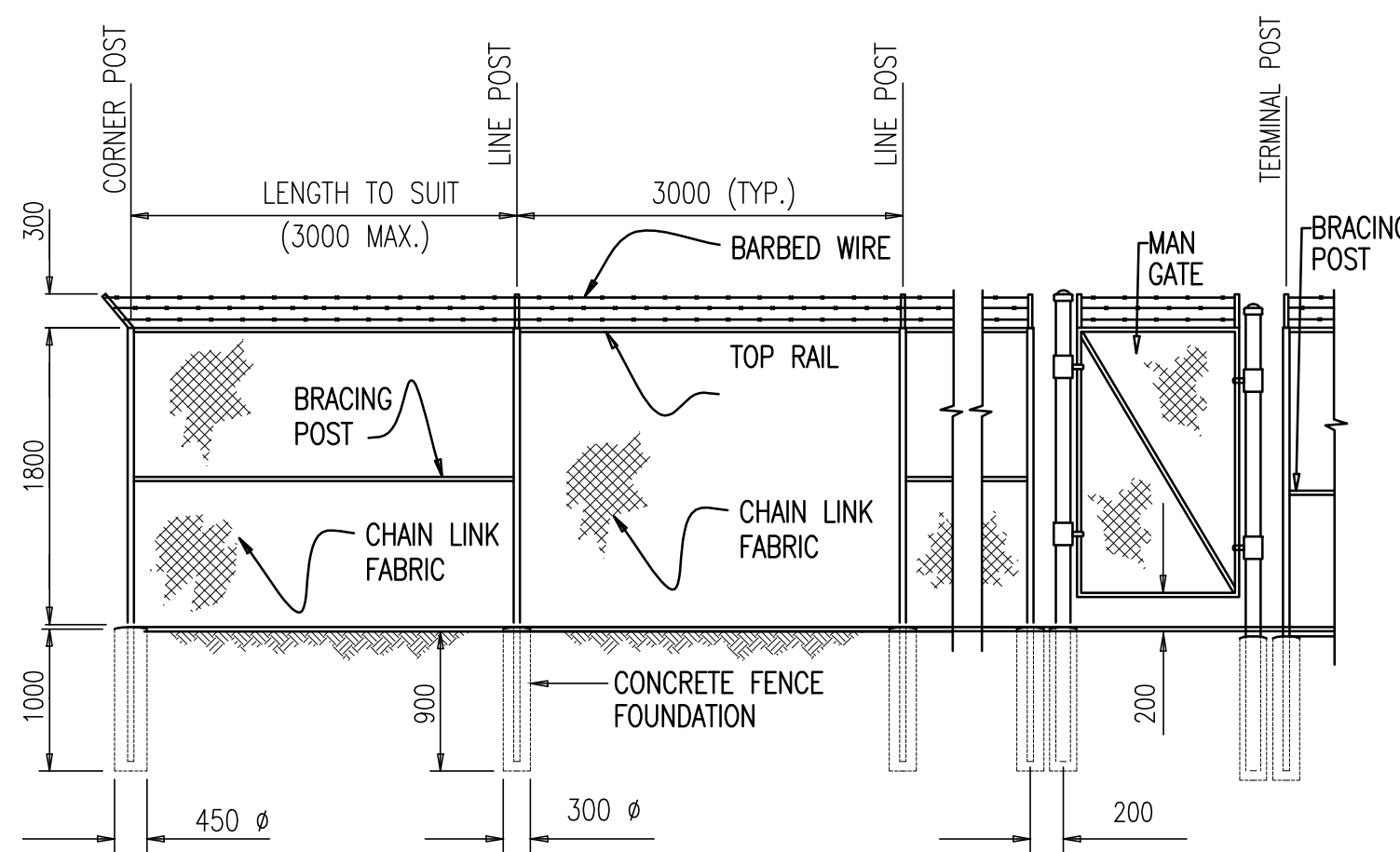
REFER TO BC HYDRO DRAWING ES54 U2-02

PROCEDURE

1. EXCAVATE AS SHOWN OR USE "SONOTUBE" FORMING
2. GLUE PLASTIC CAP TO PVC CONDUIT
3. POUR CONCRETE AROUND PVC CONDUIT
4. FILL THE PVC CONDUIT WITH A THIN MIX OF NON-SHRINK GROUT
5. PUSH STEEL PIPE INTO PVC CONDUIT
6. FILL THE STEEL PPE UP WITH GROUT AND FORM A CAP TO SHED WATER.

NOTES

1. PVC CAP SHALL BE GLUED TO PVC CONDUIT TO FORM A WATERPROOF JOINT
2. BOLLARDS SHALL BE PLACED SO AS NOT TO OBSTRUCT ANY DOORS NOR RESTRICT THE OPERATION OF THE UNIT
3. THE PVC CONDUIT AND CAP MUST BE INSTALLED TO INSULATE THE PIPE AND PREVENT TRANSFER OF DANGEROUS TOUCH POTENTIAL IN THE EVENT OF A FAULT.



CHAINLINK FENCE DETAIL

NOTE: POST AND MESH TO BE BLACK.

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PLOT: FULL 1:1					HALF 1:2														
ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION	ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION	DESIGNED	DRAWN	CHECKED					
A	MAY12/08	PW	PW	WB	ISSUED FOR TENDER														
B	JUL8/08	KS	WB	WB	ISSUED FOR CONSTRUCTION														
C	DEC16/09	AS	WB	WB	RECORD DRAWING														

AutoCAD
DRAWING

REVISIONS

DESIGNED

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Dayton & Knight Ltd.

CONSULTING ENGINEERS

#210-880 HARBOURSIDE DR., NORTH VANCOUVER, B.C. V7P 3S1

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RESORT MUNICIPALITY OF WHISTLER

RAINBOW PARK PUMP STATION

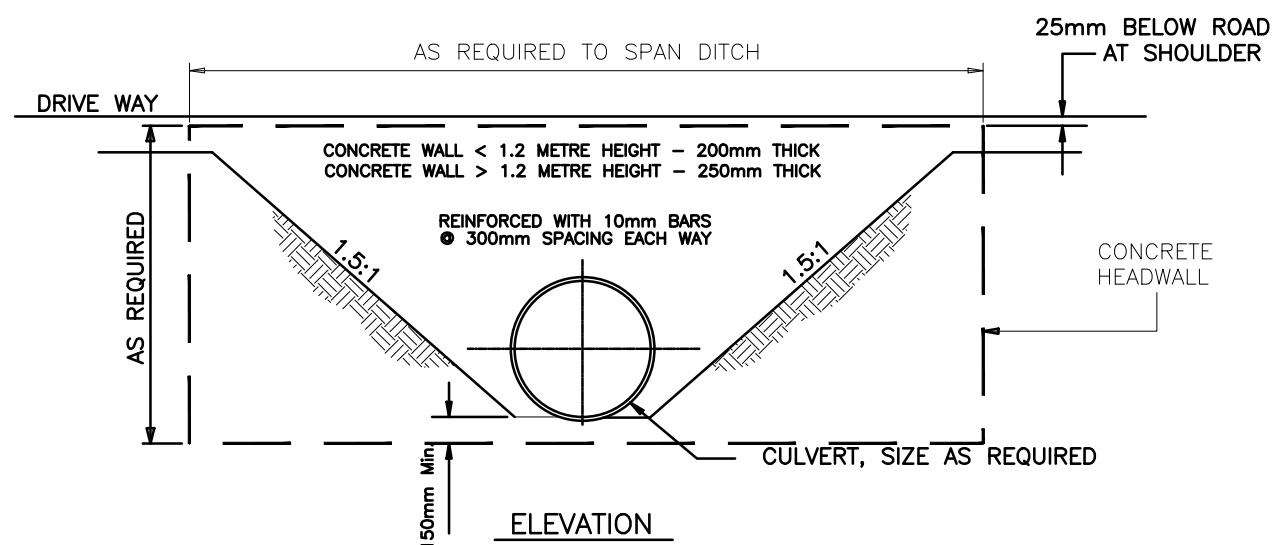
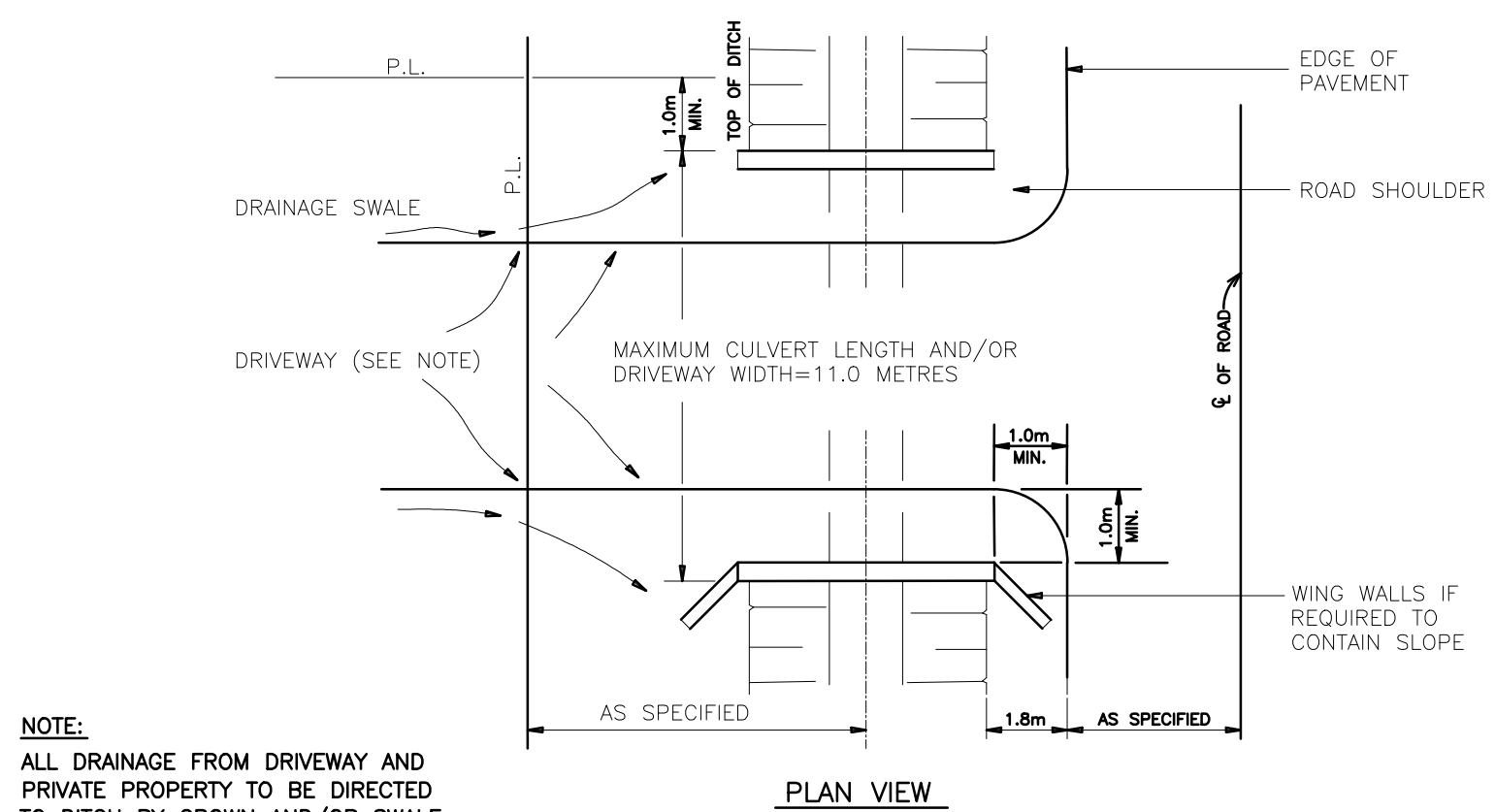
OUTSIDE PIPING PROFILES

DETAILS

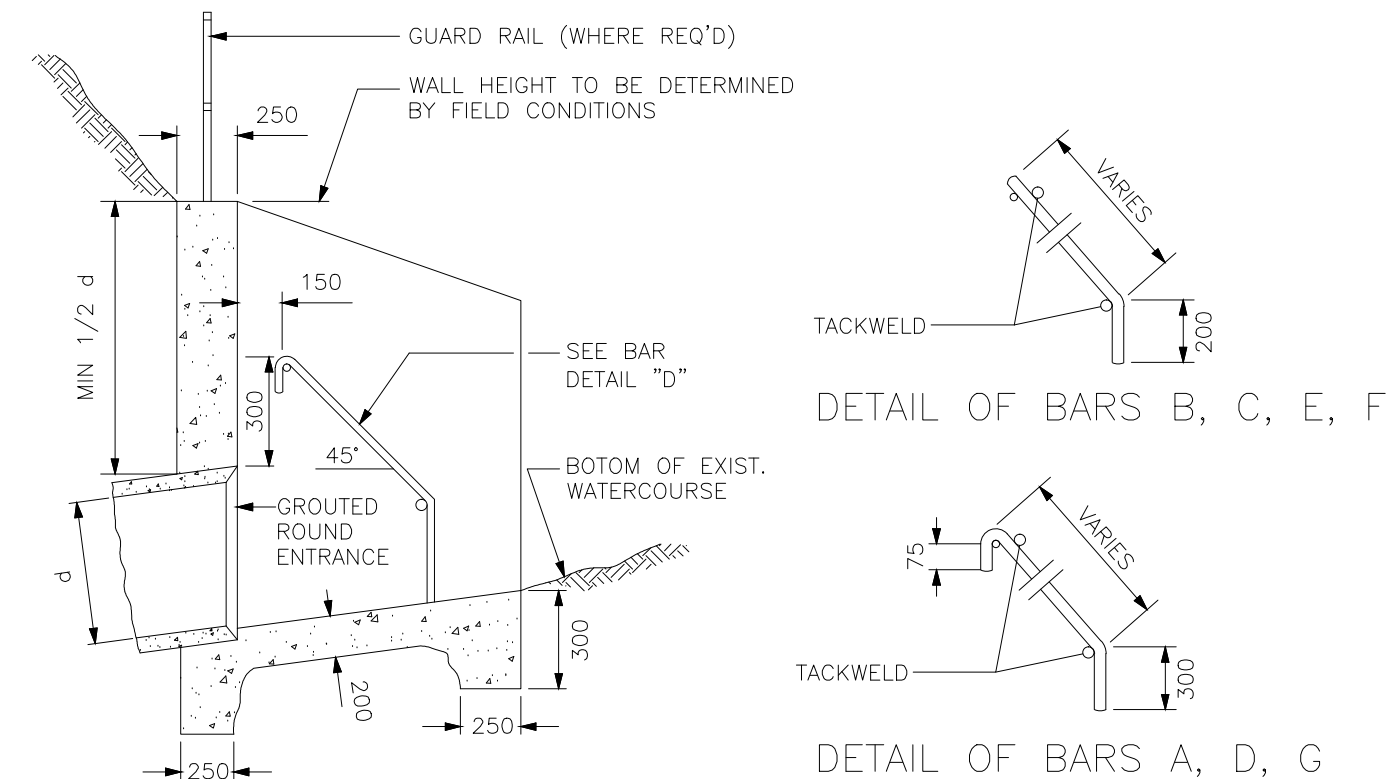
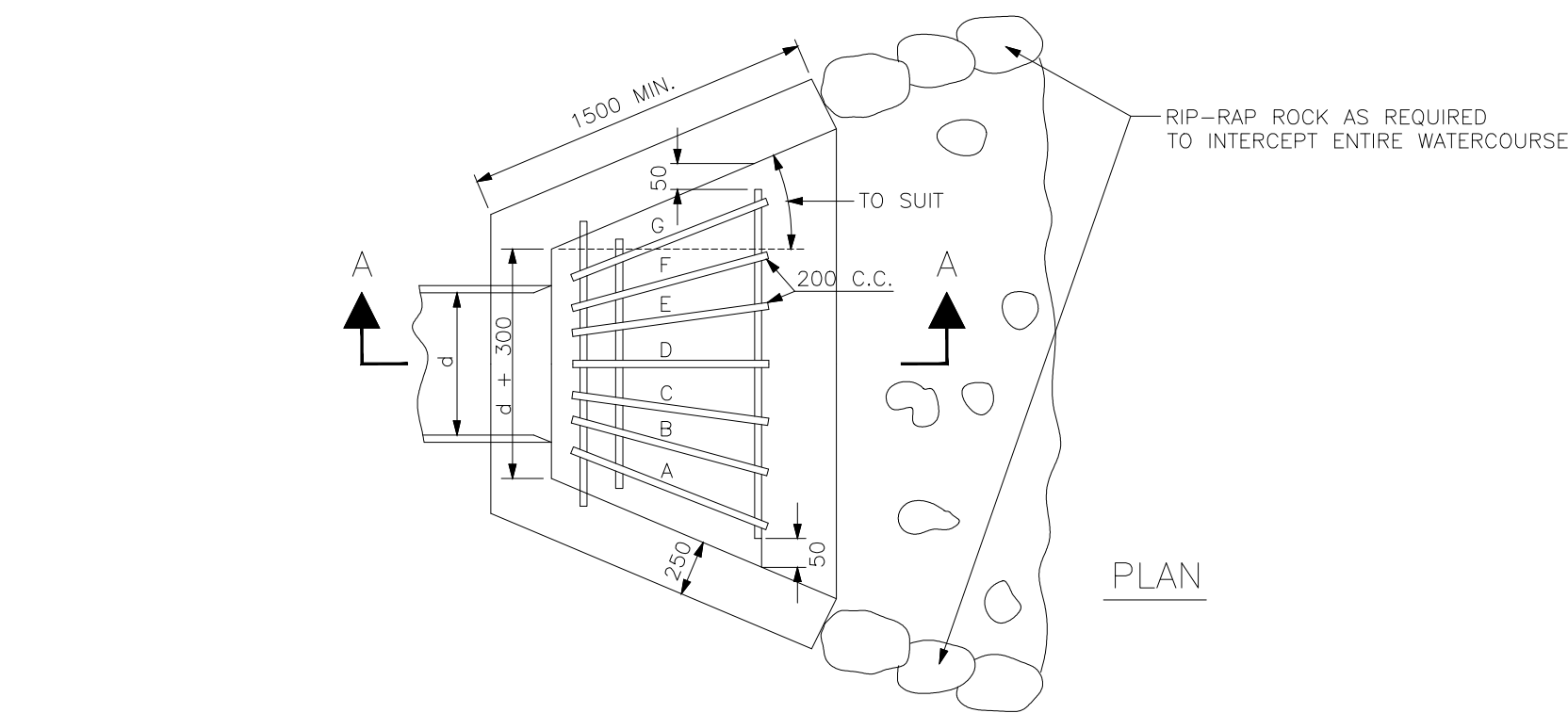
SCALE: NOT TO SCALE

DRAWING No. 179.75.1

SHEET No. G8 ISSUE C

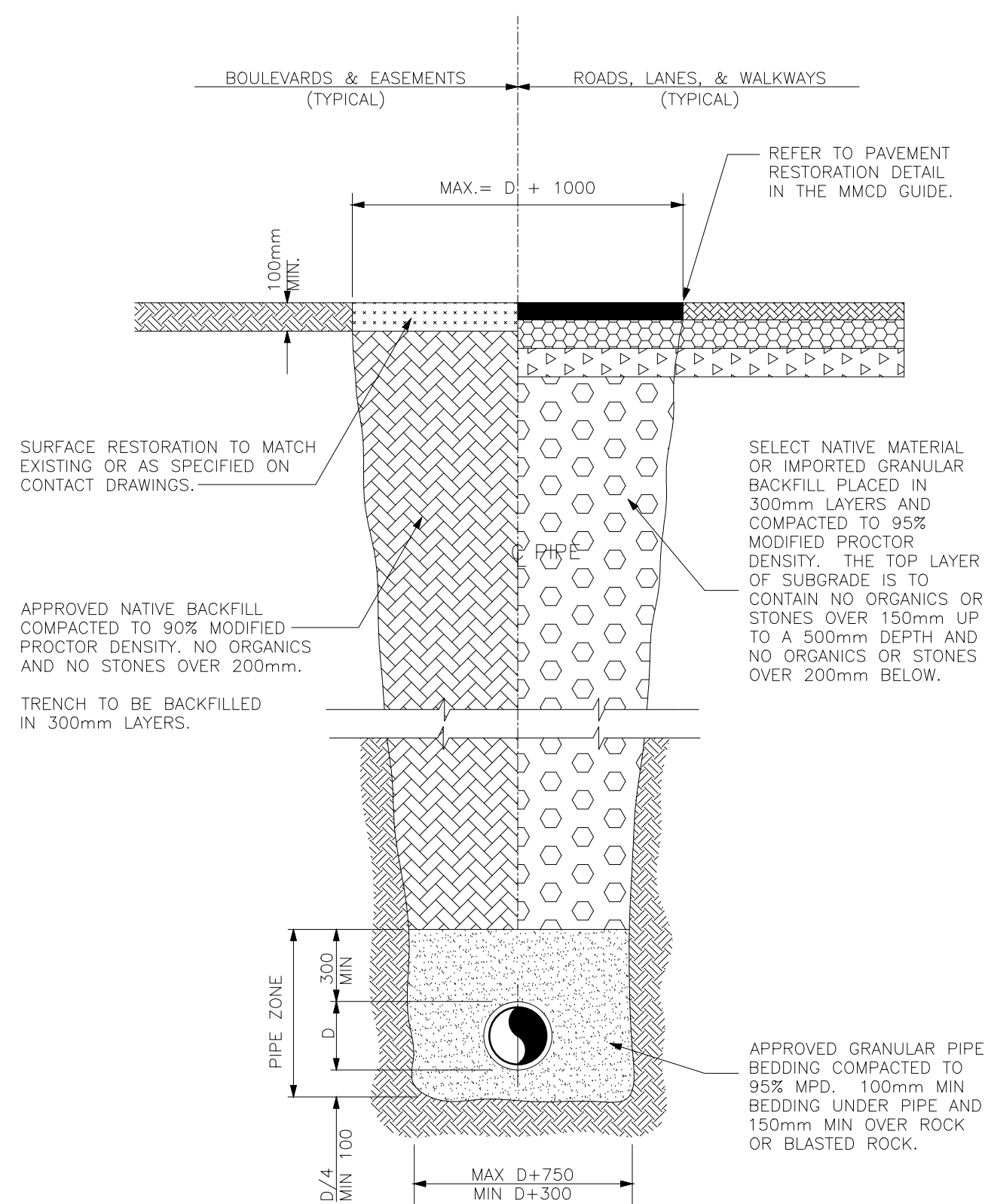


DRIVEWAY CULVERT & HEADWALL



SECTION A-A

STANDARD ENTRANCE/OUTLET HEADWALL



NOTES:

1. "D" = OUTSIDE DIAMETER OF THE PIPE AT ITS LARGEST SECTION.
2. TRENCHING TO COMPLY WITH ALL REQUIREMENTS OF THE WCB.

TYPICAL TRENCH SECTION

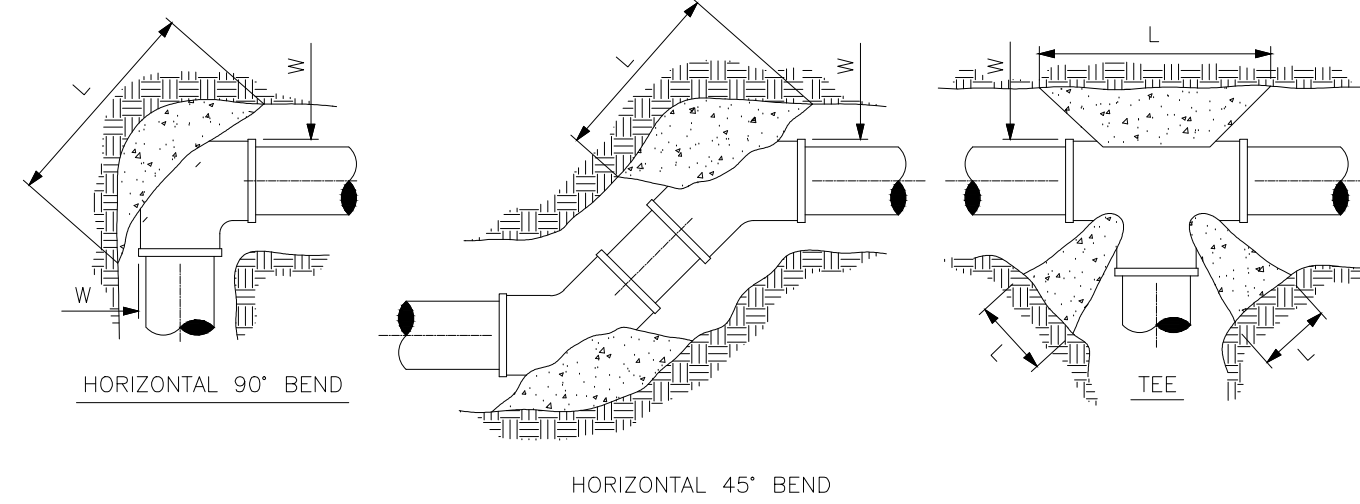
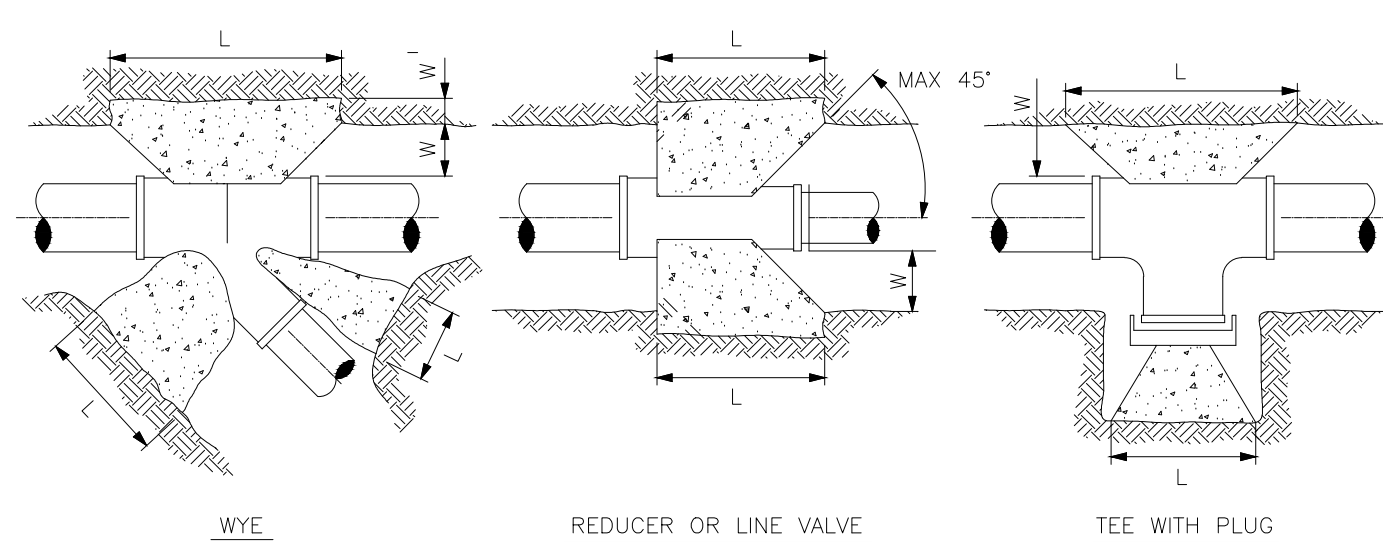


TABLE 1. MINIMUM THRUST AREAS

NOTE: ALL DIMENSIONS IN MILLIMETERS *DIMENSIONS APPLY TO THE LARGER DIA. OF FITTING

MINIMUM THRUST AREAS FOR FITTINGS AT 150 PSI PRESSURE AND FOR SOILS WITH MIN. BEARING OF 9.75 t/m ² (NOT TO BE USED FOR SOFT CLAY, MUCK, PEAT, etc.).																	
TYPE OF FITTING	FITTING SIZE		OUTSIDE OF FITTING TO BEARING FACE		RECESS IN TRENCH WALL		LENGTH	HEIGHT	TYPE OF FITTING	FITTING SIZE		OUTSIDE OF FITTING TO BEARING FACE		RECESS IN TRENCH WALL		LENGTH	HEIGHT
	D	W	W'	L	H	D				W	W'	L	H				
90° BEND	150	300					900	450	CROSS	150	300					600	450
	200	350			1050	600	900	450		200	350			750	600	900	450
	250	375			1200	750	900	450		250	375			1000	750	900	450
	300	400			1650	900				300	400			1200	900		
45° BEND	150	300			450	450			45° WYE	150	300		300	450	450		
	200	350			600	600				200	350		400	600	600		
	250	375			750	750				250	375		500	750	750		
	300	400			900	900				300	400		600	900	900		
22 1/2° BEND	150	300			450	225			REDUCER	150	300		150	450	450		
	200	350			600	300				200	350		200	600	600		
	250	375			825	450				250	375		250	750	750		
	300	400			900	450				300	400		300	900	900		
TEE	150	300			600	450			CAPS AND PLUGS (IF NOT BOLTED)	150	300			450	450		
	200	350			750	600				200	350			600	600		
	250	375			1000	750				250	375			750	750		
	300	400			1200	900				300	400			900	900		

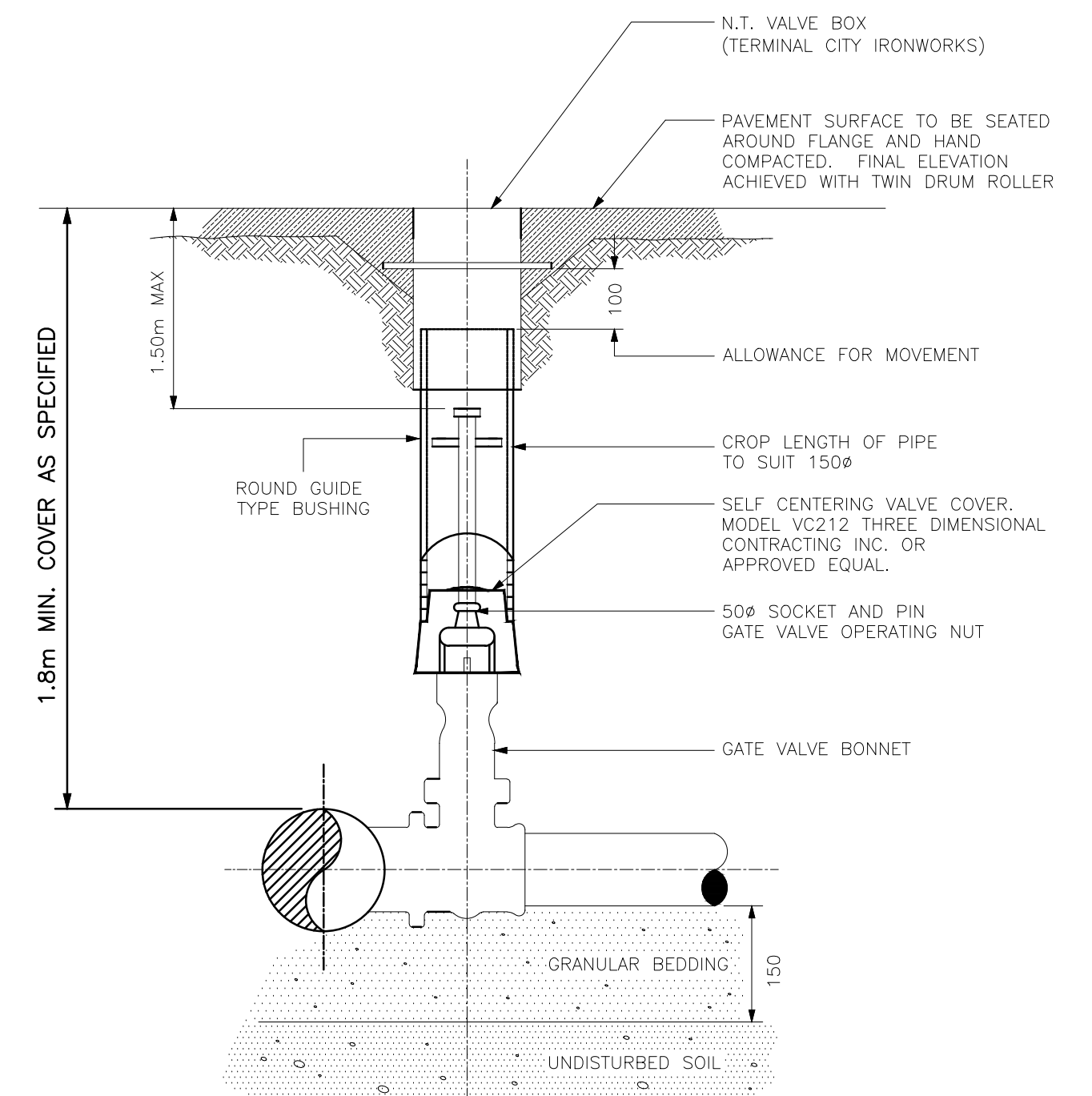
NOTE:

1. REFER TO CONTRACT DRAWINGS FOR SPECIFIED BEARING AREAS OF THRUST BLOCKS AND/OR SPECIFIC REQUIREMENTS NOT SHOWN ON THIS DRAWING.
2. PLACE 6 mil POLYETHYLENE ON INTERFACE BETWEEN CONCRETE AND FITTING.
3. PLACE 20 MPa CONCRETE AGAINST UNDISTURBED GROUND; KEEP CONCRETE CLEAR OF FITTING JOINTS.
4. SOILS AND CONDITIONS (WET) NOT MEETING MIN. BEARING OF 9.75 t/m ARE TO BE REFERRED TO ENGINEER.

THRUST BLOCK DETAILS

TABLE 2. MINIMUM THRUST AREAS 600mm PIPE

MINIMUM THRUST AREAS FOR HORIZONTAL FITTINGS AT 2300 kPa PRESSURE AND FOR SOILS WITH MIN. BEARING OF 200 kPa (NOT TO BE USED FOR SOFT CLAY, MUCK, PEAT ETC.)									
TYPE OF FITTING	FITTING SIZE	OUTSIDE OF FITTING TO BEARING FACE	LENGTH	HEIGHT	TYPE OF FITTING	FITTING SIZE	OUTSIDE OF FITTING TO BEARING FACE	LENGTH	HEIGHT
	D	W	L	H		D	W	L	H
11 1/4	600	500	900	1000		600	500	4500	1000
22.5	600	500	1800	1000					
45	600	500	3500	1000					
90	600	500	6500	1000					
TEE	600	500	4500	1000					
VERTICAL BENDS									
11 1/4	600	500	1500	1500	NOTE: ALL FITTINGS SHALL BE MECHANICAL JOINTS AND/OR HAVE THRUST BLOCKS AND ALSO BE RESTRAINED WHERE INDICATED ON THE DRAWINGS				
22.5	600	500	1500	1500					
45	600	500	1500	1500					
DIMENSIONS APPLY TO THE LARGER DIAMETER END OF FITTING.									



VALVE BOX ASSEMBLY

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		A	MAY12/08	PW	PW	WB	ISSUED FOR TENDER										DRAWING No. 179.75.1		
		B	JUL8/08	KS	WB	WB	ISSUED FOR CONSTRUCTION										SHEET No. G9 ISSUE C		
		C	DEC16/09	AS	WB	WB	RECORD DRAWING												
														DRAWN <u>PW</u>					
														CHECKED <u>WB</u>					

INSTRUMENT SYMBOLS					
	CONTROL ROOM LOCATION ACCESSIBLE TO OPERATOR	CONTROL ROOM LOCATION INACCESSIBLE TO OPERATOR	LOCAL LOCATION ACCESSIBLE TO OPERATOR	LOCAL LOCATION INACCESSIBLE TO OPERATOR	FIELD LOCATED
DISCRETE INSTRUMENTS					
HMI FROM DISTRIBUTED CONTROL SYSTEM					
SCADA DISPLAY/ COMPUTER FUNCTION					
PROGRAMMABLE LOGIC CONTROLLER					

INSTRUMENT FUNCTIONAL IDENTIFICATION LETTERS					
FIRST LETTERS (4)			SUCCEEDING LETTERS (3)		
	MEASURED OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUCTION	MODIFIER
A	ANALYSIS		ALARM		
B	BURNER, COMBUSTION		UNCLASSIFIED	CLOSE-STOP DECREASE	UNCLASSIFIED
C	CONDUCTIVITY, pH (ACIDITY)		CLOSE	CONTROL OR CONTROLLER	
D	DENSITY, SPECIFIC GRAVITY	DIFFERENTIAL		OPEN-START-INCREASE	
E	VOLTAGE (EMF)		SENSOR (PRIMARY ELEMENT)		
F	FLOW RATE	RATIO (FRACTION)			FAIL
G	GAS, GAUGING (DIMENSIONAL)		GLASS, VIEWING DEVICE		
H	HAND, MANUAL				H-HIGH-(ALARM) HH-HIGH-(SHUTDOWN)
I	CURRENT (ELECTRICAL)		INDICATE		
J	POWER	SCAN			
K	TIME, TIME SCHEDULE	TIME RATE OF CHANGE		CONTROL STATION	
L	LEVEL		LIGHT		L-LOW-(ALARM) LL-LOW-(SHUTDOWN)
M	MOTOR	MOMENTARY	MONITOR, ON OR OPERATE		MIDDLE, INTERMEDIATE
N	MOISTURE, HUMIDITY		UNCLASSIFIED	START	USER'S CHOICE
O	UNCLASSIFIED		OPEN ORIFICE, RESTRICTION POINT (TEST) CONNECTION	STOP	OVERLOAD
P	PRESSURE, VACUUM		POINT (TEST) CONNECTION	PNEUMATIC	
Q	QUANTITY	INTEGRATE, TOTALIZE	INTEGRATE, TOTALIZE	INTEGRATE OR TOTALIZE	
R	RADIATION, RADIOACTIVITY	RATIO	RECORD		
S	SPEED, FREQUENCY, SOLENOID	SAFETY		SWITCH OR SAFETY	
T	TEMPERATURE			TRANSMIT	
TQ	TORQUE				
TV	TELEVISION				
U	MULTIVARIABLE		MULTIFUNCTION		
V	VIBRATION, MECHANICAL ANALYSIS			MULTIFUNCTION	MULTIFUNCTION
				VALVE, DAMPER, LOUVRE	
VS	VISCOSITY				
W	WEIGHT, FORCE		WELL		
X	ON/OFF	X AXIS	UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED
Y	EVENT, STATE OR PRESENCE	Y AXIS		RELAY, COMPUTE, CONVERT	
Z	POSITION, DIMENSION PRESENCE	Z AXIS		DRIVER, ACTUATOR, UNCLASSIFIED FINAL CONTROL ELEMENT	

CONTROL ROOM
PC COMPUTER DISPLAY
HIGH LEVEL ALARM

GENERAL NOTES

1. FADED SYMBOLS AND LINES REPRESENT EXISTING EQUIPMENT.
2. HATCHED EQUIPMENT AND LINES TO BE REMOVED.
3. FOR DETAILS OF INSTRUMENTATION LINES 1" OR LESS REFER TO INSTALLATION OR LOOP DIAGRAMS.
4. INSTRUMENTATION FOLLOWS ISA STANDARDS & PRACTICES 5.1, 55.2, 55.3, 55.4, 55.5.

FLOW UNITS

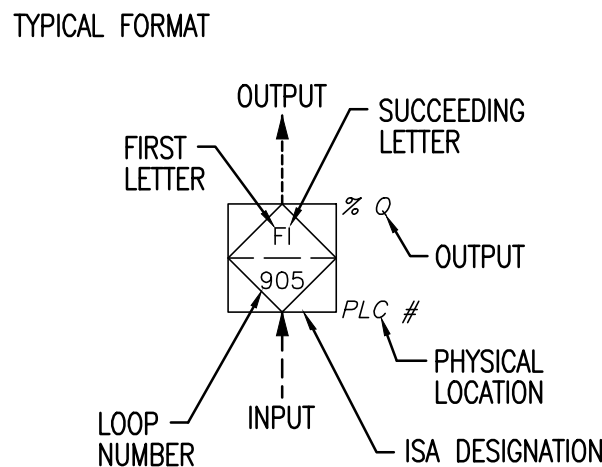
AIR:	m^3/HR
CHEMICALS:	kg PER DAY/ GRAMS PER LITRE/ LITRES PER SECOND
SEWERS:	LITRES PER SECOND
SOLIDS:	DRY METRIC TONNES PER DAY/ OR kg/D
WATER:	LITRES PER SECOND

*NOTE: NUMBERS INDICATE MAXIMUM FLOW FOR PIPE AND EQUIPMENT SIZING. CONTROL VALVES MAY BE SIZED FOR LESS.

AREA CODES

100	HEADWORKS
200	PUMP STATION
300	ATAD, SEPTAGE, RBS
900	ADMINISTRATION

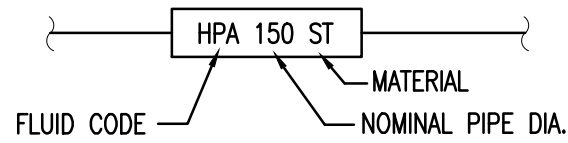
ATTRIBUTE LEGEND



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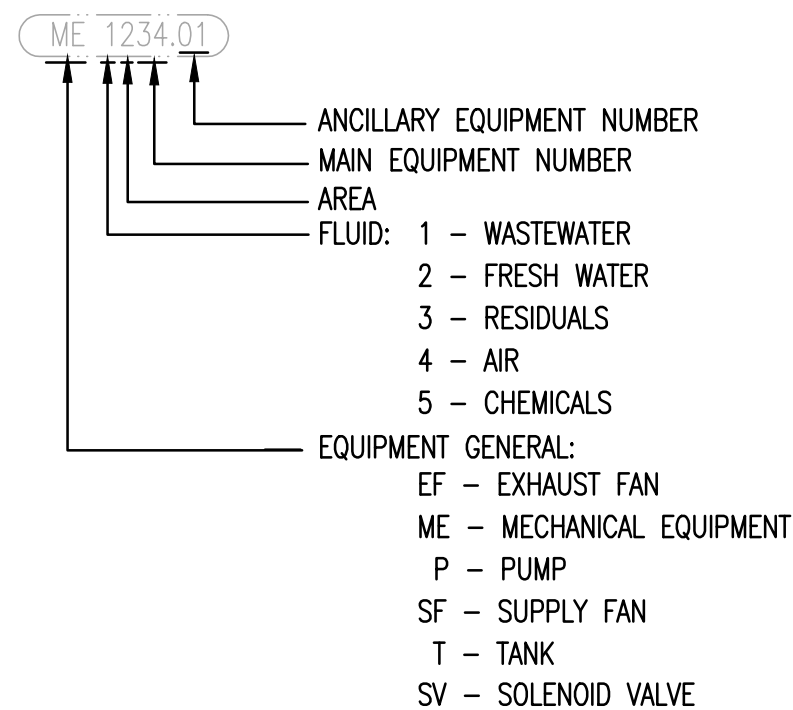
EQUIPMENT		GENERAL	
AP	– ACID METER PUMP	OMI	– OPERATOR MACHINE INTERFACE
B	– BLOWER	P	– PUMP
BP	– CAUSTIC METER PUMP	PG	– PRESSURE GAUGE
CRN	– O/H CRANE	PLC	– PROGRAMMABLE LOGIC CONTROLLER
CPS	– COMPUTER	PRV	– PRESSURE REDUCING VALVE
CON	– CONVEYOR	SCB	– SCRUBBER
CV	– CHECK VALVE	SCC	– SECONDARY CLARIFIER
CP	– COMPRESSOR	SCRN	– ROTATING SCREEN
EF	– EXHAUST FAN	SF	– SUPPLY FAN
FC	– FLUSHING CONNECTION	SG	– SLIDE GATE
HE	– HEAT EXCHANGER	SLG	– SLUICE GATE
M	– MOTOR	SL	– STOP LOG
MXR	– MIXER	SP	– SLUDGE PUMP
MCB	– MASTER CONTROL BOARD	SV	– SOLENOID VALVE
MCC	– MOTOR CONTROL CENTRE	TK	– TANK
ME	– MECHANICAL EQUIPMENT	VA	– VALVE
MV	– MOTORIZED VALVE	UP	– UTILITY PUMP
		VT	– VENTURA–NOZZLE
		WG	– WEIR

LINE NUMBERING SYSTEM

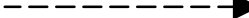


FLUID_CODE	FLUID	FLUID_CODE	FLUID
CLS	CHLORINE SOLUTION	PLW	PLANT WATER
D	DRAIN	POL	POLYELECTROLYTE SOLUTION
FOM	FOAM	PW	POTABLE WATER
H ₂ SO ₄	SULPHURIC ACID LINE	RC	RECIRCULATED FLOW
HDSL	HOT DIGESTED SLUDGE LINE	SS	SAMPLE SOLUTION
HPA	HIGH PRESSURE AIR	TD	TANK DRAIN
HWR	HOT WATER RETURN	TSL	THICKENED SLUDGE
HWS	HOT WATER SUPPLY	VT	VENT
LPA	LOW PRESSURE AIR	WAS	WASTE ACTIVATED SLUDGE
NaOH	CAUSTIC LINE		
NPW	NON POTABLE WATER		
OF	OVERFLOW		
OZ	OZONE		

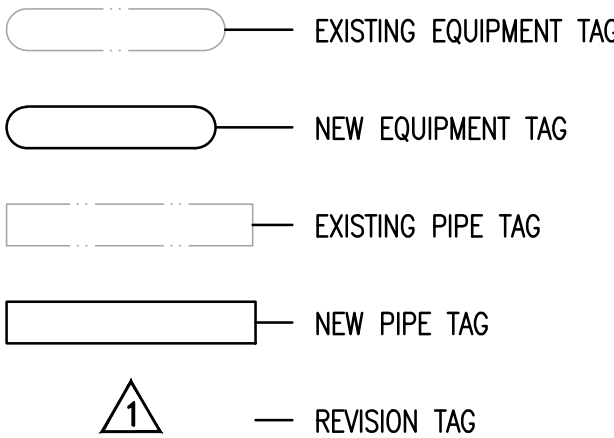
NOTE: ALSO SEE MECHANICAL AND ELECTRICAL ABBREV.

EQUIPMENT NUMBER

PROCESS LINE TYPES	
	MAIN (OR NEW) PROCESS LINE
	SECONDARY (OR EXISTING) PROCESS LINE
	EXISTING PIPING AND EQUIPMENT
	FUTURE PROCESS LINE
	EXISTING PIPING AND EQUIPMENT TO BE REMOVED
	OPEN CHANNEL (EXIST./NEW)

INSTRUMENT SIGNAL LINE TYPES	
	CAPILLARY TUBE OR FILLED SYSTEM SIGNAL LINE
	ELECTRIC INSTRUMENT LINE – ANALOG
	ELECTRIC INSTRUMENT LINE – DIGITAL (ASD DRIVE)
	ELECTRIC INSTRUMENT SIGNAL (EXIST./NEW)
	ELECTRIC OR ELECTRONIC INSTRUMENT SIGNAL WITH DIRECTION AS SHOWN, PROCESS TAPS
	INTERNAL SYSTEM LINK (CPS, HMI)
	INTERNAL SYSTEM LINK (ISL – SOFTWARE OR DATA)
	PNEUMATIC INSTRUMENT SIGNAL
	SPARE

GENERAL SYMBOLS AND TAGS



LINE DESIGNATIONS

	ELECTRIC POWER SUPPLY 120 VAC 60 HZ (UNLESS OTHERWISE NOTED)
	LINE CONTINUATION TO/FROM
	SPECIFICATION AND/OR LINE NUMBER CHANGE
	SUPPLIED BY EQUIPMENT VENDOR



WHISTLER

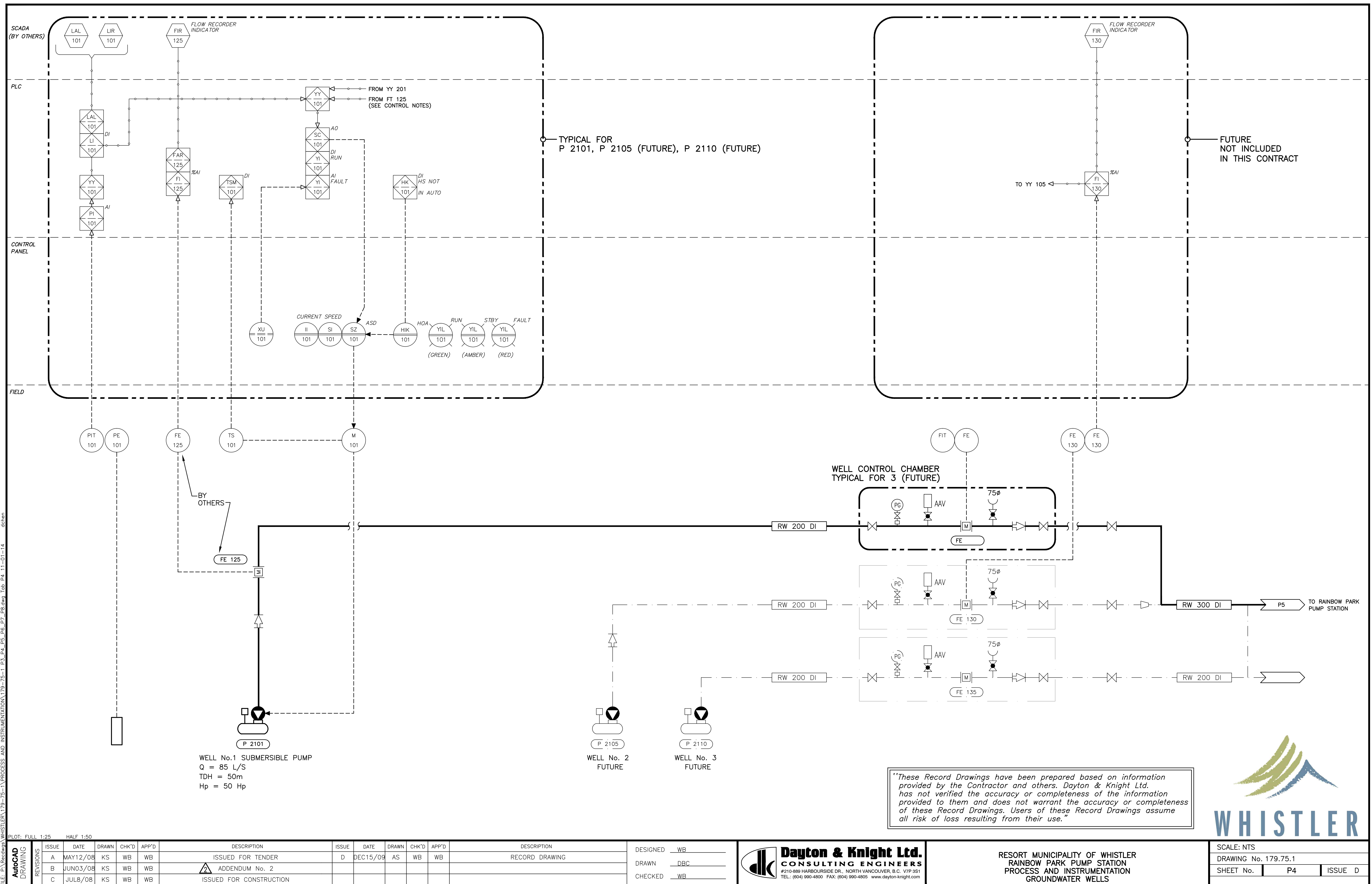
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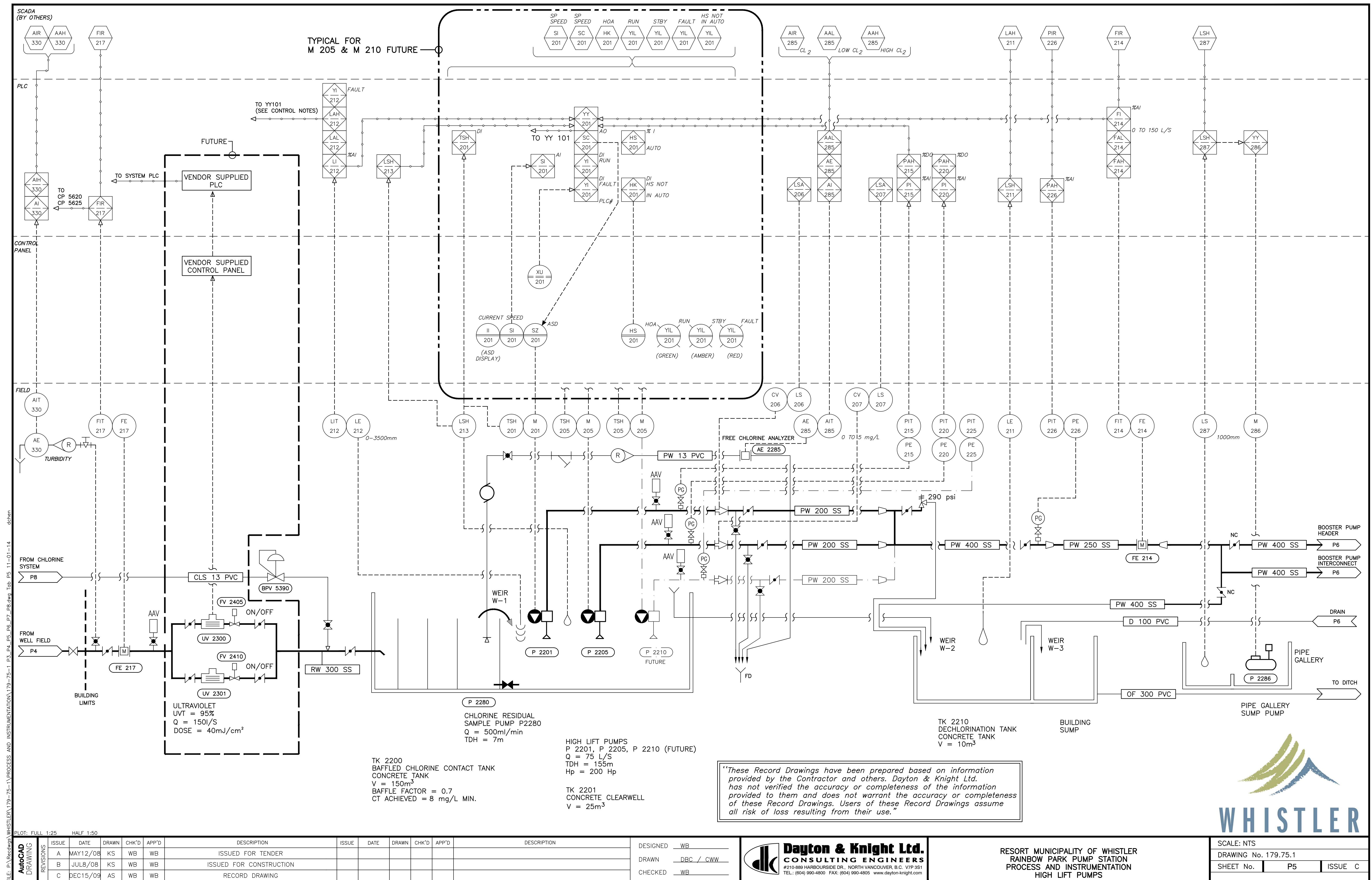
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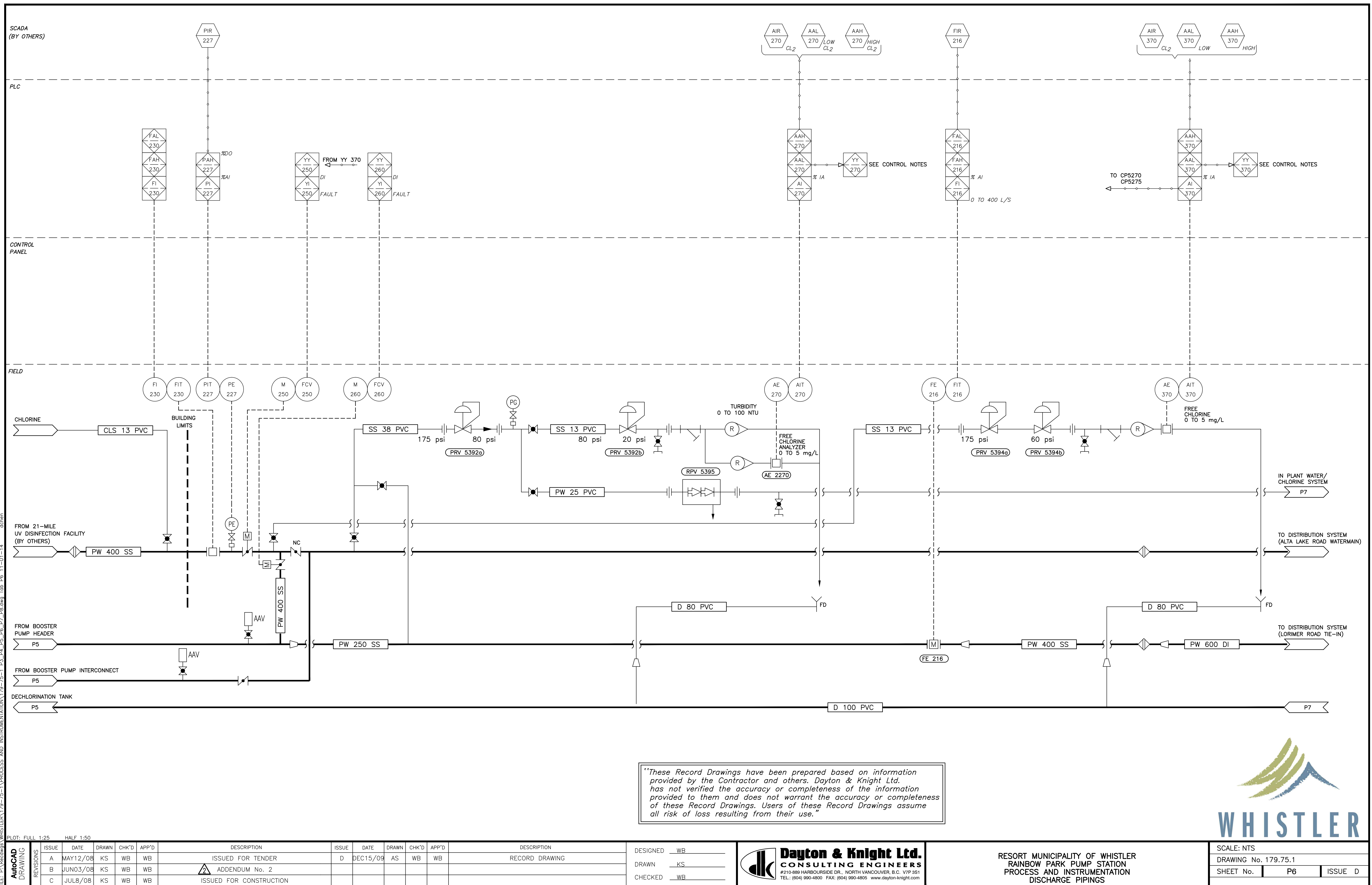
RESORT MUNICIPALITY OF WHISTLER
RAINBOW PARK PUMP STATION
P&ID STANDARD TAGS AND ABBREVIATIONS

SCALE: NONE		
DRAWING No. 179.75.1		
SHEET No.	P1	ISSUE C

EQUIPMENT						EQUIPMENT REQUIRING DRIVES:						PIPING SYMBOLS						VALVE LABELLING SYSTEM																																									
BAR SCREEN, MECHANICAL BLOWER OR CENTRIFUGAL FAN CALIBRATION COLUMN CONTROL DAMPER CENTRIFUGE COMPRESSOR, ROTARY SCREW DIFFUSER HEADER FILTER OR FILTER-SILENCER INLET AIR MIXER MIXER, HORIZONTAL SURFACE MIXER, INLINE STATIC MOTOR (MAYBE ELECTRIC, HYDRAULIC OR PNEUMATIC) MOTORIZED CONTROL DAMPER OUTFALL DIFFUSER PULSATION DAMPER TELESCOPIC GATE VALVE WEIR PUMP (GRINDER) PUMP (PERISTALTIC/HOSE) PUMP (DUAL DIAPHRAGM) PUMP (PROGRESSIVE CAVITY) PUMP (ROTARY LOBE) OR BLOWER PUMP (SUBMERSIBLE) PUMP (VERTICAL) PUMP (CENTRIFUGAL) PUMP (METERING) RECEIVER OR PRESSURE VESSEL RESERVOIR SLIDE GATE (NORMALLY CLOSED) SLIDE GATE (NORMALLY OPEN) SLUICE GATE (NORMALLY CLOSED) SLUICE GATE (NORMALLY OPEN) STOP LOG (NORMALLY OPEN) STOP LOG (NORMALLY CLOSED) TANK EQUIPMENT TYPES: BLOWER OR FAN CENTRIFUGAL PUMP MOTOR DRIVES DRIVE TYPES: DRIVE-HYDRAULIC, PNEUMATIC, TURBINE OR INTERNAL COMBUSTION ENGINE ELECTRIC DRIVE MODIFICATIONS: BACKSTOP, BRAKE OR CLUTCH DRIVE INTERLOCK DRIVE INTERLOCK SEQUENCE TERMINATION DRIVE PERSONAL SAFETY INTERLOCK EXISTING DRIVE NEW DRIVE REVERSIBLE VARIABLE SPEED B BUBBLER SYSTEM I INTERLOCK - SEE CONTROL STRATEGY DESC. P PURGE OR FLUSHING DEVICE AIR INTAKE AIR VENT ANNULAR TYPE INLINE PRESSURE SENSOR BLIND FLANGE CAMLOCK (UTILITY STATION) CAP OR PLUG CIRCULAR BLANK OR SPECTACLE BLIND OPTIONS: NORMALLY OPEN NORMALLY CLOSED QUICK CONNECTION (HOSE) FIXED CONNECTION (HOSE) DAMPER DESUPERHEATER INLINE DRAIN DRAIN/FUNNEL DRAIN TO FLOOR DRAIN TO TRENCH EJECTOR EQUIPMENT INSULATION EXPANSION JOINT FLAME ARRESTOR FLANGE FLEXIBLE CONNECTOR GOOSE NECK VENT GROUND (ELECTRICAL) GROUND IN-LINE INSTRUMENT INSTRUMENT CHEMICAL DIAPHRAGM SEAL LINE SLOPE LIQUID LEVEL MIXER ORIFICE PLATE PIPE INSULATION PIPE HEAT TRACING E=ELECTRIC S=STEAM PIPE MATERIAL OR SIZE OR NEW / OLD JUNCTION PIPE PLUG PRESSURE GAUGE REDUCER ROTAMETER RUPTURE DISC SENSOR SIGHT GLASS STEAM TRAP WITHOUT BYPASS STEAM TRAP WITH BYPASS TYPICAL 3 OUTPUT SIGNAL TO CONTROL UNION UTILITY STATION (NUMBER, IF ANY, DESIGNATES TYPE) WELDED CAP Y-TYPE STRAINER AAV AUTOMATIC AIR VALVE BALL CHECK VALVE BALL VALVE BLAST GATE (BG) BUTTERFLY VALVE BUTTERFLY VALVE DAMPER VALVE CHECK VALVE CONTROL VALVE DIAPHRAGM VALVE FOUR-WAY VALVE GATE/MANUAL VALVE GLOBE VALVE KNIFE GATE VALVE MUD VALVE NEEDLE VALVE PINCH VALVE PLUG VALVE SOLENOID VALVE THREE-WAY VALVE DOUBLE CHECK VALVE BACKFLOW PREVENTER REDUCED PRESSURE BACKFLOW PREVENTER BACK PRESSURE REGULATING VALVE PRESSURE REDUCING PRESSURE REGULATING MODULATING VALVE, PRESSURE REGULATING VALVE (EXTERNAL SENSING) PRESSURE REGULATING VALVE (INTERNAL SENSING) ON/OFF VALVE PRESSURE RELIEF VALVE PRESSURE AND VACUUM RELIEF VALVE SAFETY RELIEF VALVE VACUUM RELIEF VALVE OPTIONS: NORMALLY CLOSED NORMALLY OPEN FAIL OPTIONS: LOSS OF AIR (OR POWER) FO FI FL FAIL OPEN FAIL CLOSE FAIL INDETERMINATE FAIL LAST POSITION EXAMPLE: ON-OFF VALVE NORMALLY CLOSED FC FAIL CLOSED VALVE OPERATORS MOTOR ACTUATOR BLEED VALVE SOLENOID PNEUMATIC CYLINDER DIAPHRAGM (PRESSURE BALANCE) DIAPHRAGM (SPRING OPPOSED) PRIMARY ELEMENT SYMBOLS ANNUBAR ANNULAR TYPE DIAPHRAGM PRESSURE SEAL DIAPHRAGM SEAL DISPLACEMENT LEVEL ELEMENT FLOW ELEMENT INTEGRAL WITH TRANSMITTER (MASS FLOW, ETC) FLOAT LEVEL ELEMENT FLUME (PARSHALL OR TRAPEZOIDAL) VENTURI OR FLOW TUBE ANEMOMETER WEIR FLOWMETER IN-LINE PRESSURE SENSOR MAGNETIC FLOWMETER NUCLEAR DENSITY METER PITOT TUBE ROTAMETER 1-10 GPM ROTAMETER W/ NEEDLE VALVE TURBINE OR PROPELLER TYPE METER ULTRASONIC FLOWMETER ULTRASONIC/MICROWAVE LEVEL ELEMENT ULTRASONIC LEVEL METER ULTRASONIC METER (STRAP ON) "These Record Drawings have been prepared based on information provided by the Contractor and others. Dayton & Knight Ltd. has not verified the accuracy or completeness of the information provided to them and does not warrant the accuracy or completeness of these Record Drawings. Users of these Record Drawings assume all risk of loss resulting from their use."																																																											
PLOT: FULL 1:25 HALF 1:50																																																											
AutoCAD DRAWING						ISSUE						ISSUE						DESIGNED						DRAWN						CHECKED						Dayton & Knight Ltd. CONSULTING ENGINEERS						RESORT MUNICIPALITY OF WHISTLER RAINBOW PARK PUMP STATION P&ID STANDARD SYMBOLS EQUIPMENT, VALVES AND INSTRUMENTATION						SCALE: NONE											
REVISIONS						DESCRIPTION						DESCRIPTION						WB						DBC						WB						#210-889 HARBOURSIDE DR., NORTH VANCOUVER, B.C. V7P 3S1 TEL.: (604) 990-4800 FAX: (604) 990-4805 www.dayton-knight.com												DRAWING No. 179.75.1											
A						MAY12/08						KS						WB						WB						ISSUED FOR TENDER																								SHEET No.					
B						JUL8/08						KS						WB						WB						ISSUED FOR CONSTRUCTION																								P2					
C						DEC15/09						AS						WB						WB						RECORD DRAWING																								ISSUE C					







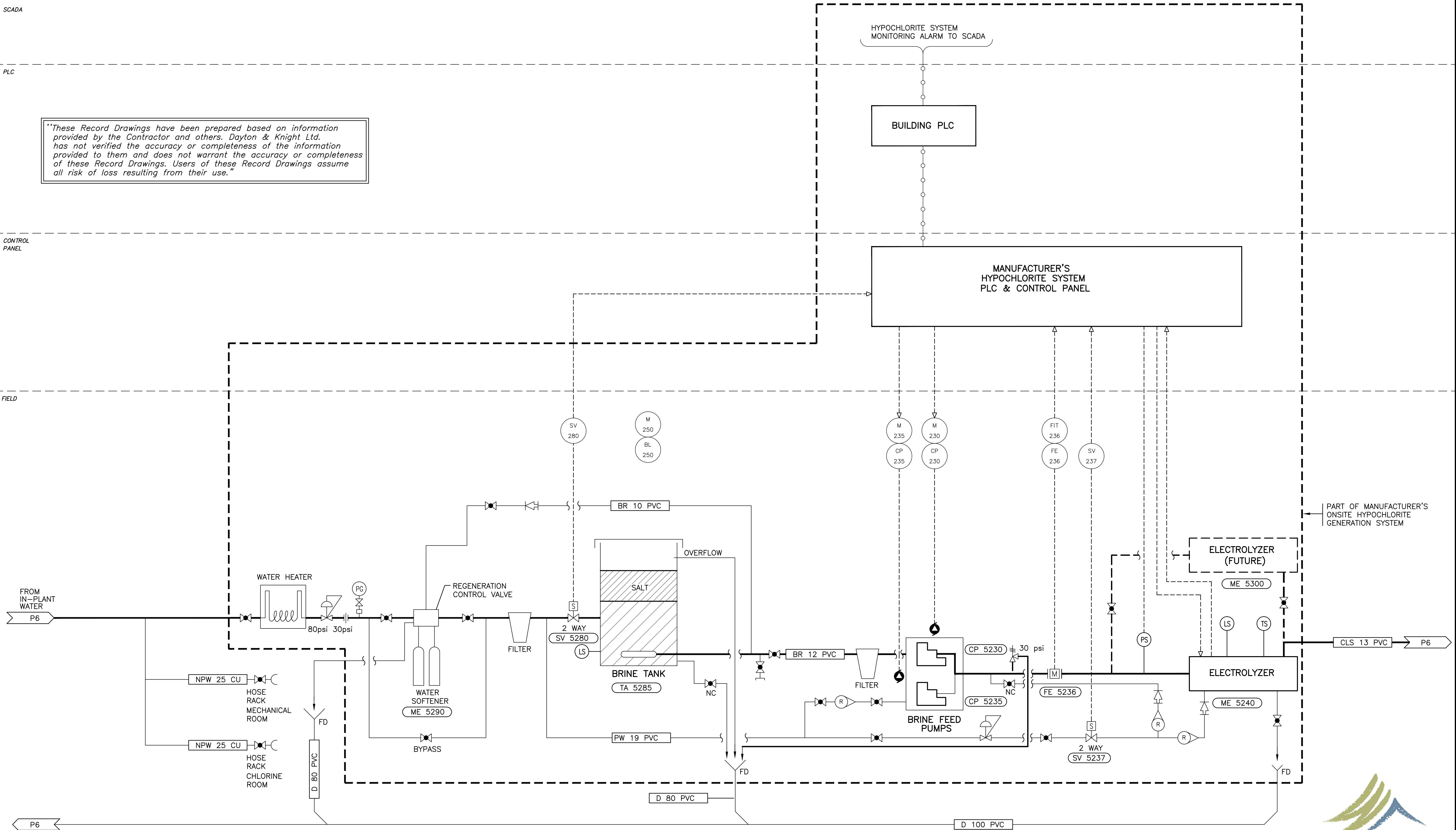
SCADA

PLC

CONTROL
PANEL

FIELD

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ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION	ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION
A	MAY12/08	KS	WB	WB	ISSUED FOR TENDER						
B	JUL8/08	KS	WB	WB	ISSUED FOR CONSTRUCTION						
C	DEC15/09	AS	WB	WB	RECORD DRAWING						

DESIGNED WB
DRAWN DBC
CHECKED WB

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RESORT MUNICIPALITY OF WHISTLER
RAINBOW PARK PUMP STATION
PROCESS AND INSTRUMENTATION DIAGRAM
CHLORINE GENERATION SYSTEM

SCALE: NTS

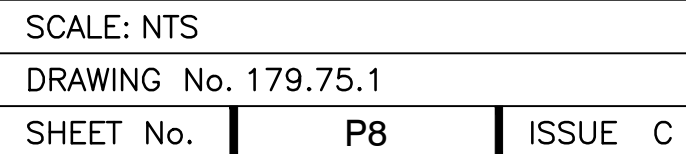
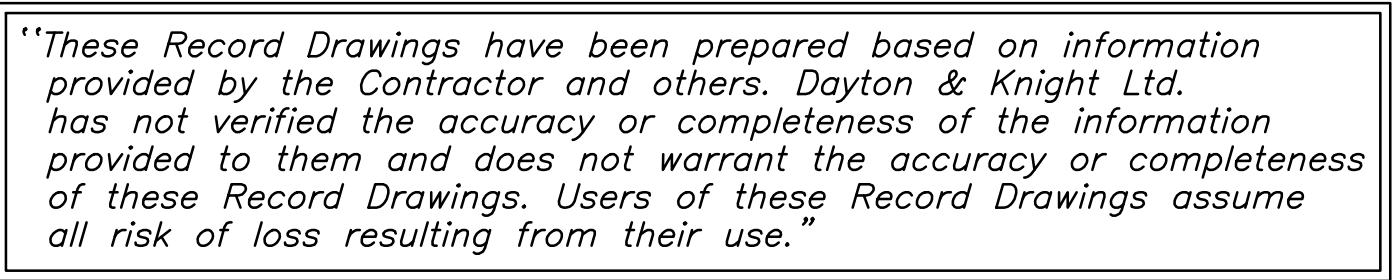
DRAWING No. 179.75.1

SHEET No. **P7** ISSUE **C**



WHISTLER

FILE: P:\Records\WHISTLER\179-75-1\PROCESS AND INSTRUMENTATION\179-75-1_P3_P4_P5_P6_P7_P8.dwg Tab: P7 11-01-14 dchen



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AutoCAD DRAWING	REVISIONS	ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION	ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION	DESIGNED	WB	
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		B	JUL8/08	KS	WB	WB	ISSUED FOR CONSTRUCTION								CHECKED	WB
		C	DEC15/09	AS	WB	WB	RECORD DRAWING									
 Dayton & Knight Ltd. CONSULTING ENGINEERS #210-889 HARBOURSIDE DR., NORTH VANCOUVER, B.C. V7P 3S1 TEL.: (604) 990-4800 FAX: (604) 990-4805 www.dayton-knight.com RESORT MUNICIPALITY OF WHISTLER RAINBOW PARK PUMP STATION PROCESS AND INSTRUMENTATION DIAGRAM CHLORINE PUMPING SYSTEM SCALE: NTS DRAWING No. 179.75.1 SHEET No. P8 ISSUE C																

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GENERAL CONSTRUCTION NOTES

GENERAL NOTES

1. **SCOPE :** THE NOTES AND DETAILS ON THIS SHEET ARE GENERAL AND APPLY TO THE ENTIRE PROJECT EXCEPT WHERE THERE ARE SPECIFIC INDICATIONS TO THE CONTRARY.
2. **APPLICABLE SPECIFICATIONS AND CODES :** CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL BUILDING CODE EXCEPT WHERE OTHER APPLICABLE CODES OR THE FOLLOWING NOTES ARE MORE RESTRICTIVE.
3. **DIMENSIONS :** STRUCTURAL DIMENSIONS CONTROLLED BY OR RELATED TO MECHANICAL OR ELECTRICAL EQUIPMENT SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
4. **PROVISIONS FOR EQUIPMENT :** MECHANICAL AND ELECTRICAL EQUIPMENT SUPPORTS, ANCHORAGES, OPENINGS, RECESSES AND REVEALS NOT SHOWN ON THE STRUCTURAL DRAWINGS BUT REQUIRED BY OTHER CONTRACT DRAWINGS SHALL BE PROVIDED FOR PRIOR TO CASTING CONCRETE.
5. **CONSTRUCTION LOADS :** STRUCTURES HAVE BEEN DESIGNED FOR OPERATION LOADS ON THE COMPLETED STRUCTURES. DURING CONSTRUCTION, THE STRUCTURES SHALL BE PROTECTED BY BRACING AND BALANCING WHEREVER EXCESSIVE CONSTRUCTION LOADS MAY OCCUR. ALL TEMPORARY AND PERMANENT SURCHARGE LOADS SHALL BE CONSIDERED.
6. THE CONTRACTOR IS RESPONSIBLE FOR SHORING AND UNDERPINNING. DOCUMENTS RELATING TO THIS WORK SHALL BE SEALED AND SIGNED BY A BRITISH COLUMBIA PROFESSIONAL ENGINEER.
7. **DRAINAGE SURFACES :** FLOOR ELEVATIONS SHOWN ON CONCRETE OUTLINE DRAWINGS ARE PERIMETER ELEVATIONS FOR STRUCTURAL SLABS AND MAY NOT INDICATE FLOOR SLOPES, TOPPING OR FLOOR ELEVATIONS. FOR AREAS REQUIRING FLOOR SLOPES, TOPPING AND FLOOR DRAIN (ELEVATIONS AND LOCATIONS), SEE ARCHITECTURAL AND MECHANICAL DRAWINGS.

$f_c = 30 \text{ MPa}$ $f_y = 400 \text{ MPa}$	BAR SIZE	MINIMUM STRAIGHT EMBEDMENT DEVELOPMENT LENGTHS (mm)		MINIMUM TENSION EMBEDMENT WITH STANDARD END HOOKS E
		COMPRESSION	TENSION	
	10M 15M 20M 25M 30M	200 280 340 440 530	300 450 600 1000 1200	200 200 220 450 630

$f_c = 30 \text{ MPa}$ $f_y = 400 \text{ MPa}$	BAR SIZE	LAP SPLICE LENGTHS (mm)	
		TENSION	COMPRESSION
	10M 15M 20M 25M 30M	400 600 800 1200 1600	300 450 600 750 900

NOTES :

1. FOR LOCATION OF PIPING, FLOOR DRAINS, ELECTRICAL / INSTRUMENTATION CONDUIT, VENTILATION DUCTS WHICH PASS THROUGH CONCRETE SLABS, WALLS AND/OR ROOFS, REFER TO THE MECHANICAL, VENTILATION, ELECTRICAL AND INSTRUMENTATION DRAWINGS TO COORDINATE THIS PART OF THE WORK.
2. FOR DETAILS OF NEW FOUNDATION DRAINS, WHICH PASSED UNDERNEATH NEW CONCRETE SLABS REFER TO GENERAL DRAWINGS, UNLESS NOTED OTHERWISE IN SPECIFICATIONS.

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STEEL

1. **APPLICABLE SPECIFICATIONS AND CODES :** STEEL CONSTRUCTION SHALL CONFORM TO CSA S16 "STEEL STRUCTURES FOR BUILDINGS" AS CONTAINED IN THE NATIONAL BUILDING CODE.
2. **BOLTED JOINTS** EXCEPT FOR BOLTS ANCHORED IN CONCRETE, BOLTED JOINTS SHALL CONFORM TO THE SPECIFICATIONS OF THE CANADIAN INSTITUTE OF STEEL CONSTRUCTION. BOLTS SHALL BE AS SPECIFIED ON THE DRAWINGS, OR, AT LEAST 13mm DIAMETER IF NOT SPECIFIED ON THE DRAWINGS.
3. **ANCHOR BOLTS :** BOLTS ANCHORED IN CONCRETE, IF NOT SPECIFIED ON THE DRAWINGS, SHALL BE 13mm DIAMETER WITH 225mm EMBEDDED AND SHALL CONFORM TO ASTM A-36.
4. **ENCASED STEEL :** STEEL COMPLETELY ENCASED IN CONCRETE SHALL NOT BE PAINTED AND SHALL HAVE A CLEAN SURFACE FOR BONDING TO CONCRETE.

ALUMINUM

1. **APPLICABLE SPECIFICATIONS AND CODES :** ALUMINUM CONSTRUCTION SHALL CONFORM TO CAN3-S157 "STRENGTH DESIGN IN ALUMINUM" AS SPECIFIED IN THE NATIONAL BUILDING CODE.
2. ALUMINUM PLACED IN CONTACT WITH CONCRETE, MORTAR, PLASTER OR DISSIMILAR METALS SHALL BE GIVEN A PROTECTIVE SEALING COAT OF ZINC CHROMATE EPOXY OR ALKALI-RESISTANT BITUMINOUS PAINT.

MASONRY

1. **APPLICABLE SPECIFICATIONS AND CODES :**MASONRY CONSTRUCTION SHALL CONFORM TO CAN3-S157 AS SPECIFIED IN THE NATIONAL BUILDING CODE.
2. VERTICAL REINFORCING SHALL BE 1 - 15M BARS FOR FULL HEIGHT OF WALL IN A CAVITY AT MAXIMUM 0.60 METRE SPACING C/C AND AT ALL CORNERS, AND 1-15M ADJACENT TO OPENINGS LARGER THAN 600mm.
3. HORIZONTAL REINFORCING SHALL BE "DURWALL" OR "WAL-LOK" STANDARD WT BRIGHT FINISH AT 400mm SPACING AND 2-15M HORIZONTAL REINFORCING CONTINUOUS IN BOND BEAMS SPACED 1200 C/C AND IN LINTELS FOR OPENINGS OF LESS THAN 1200 WITH 400 BEARINGS ON BOTH SIDES OF OPENINGS.
4. FOR MORE INFORMATION SEE S3 DRAWING.

STRUCTURAL LEGEND

-  NEW CONCRETE
-  EXISTING CONCRETE
-  TOP REINFORCING (PLAN VIEW)
-  BOTTOM REINFORCING (PLAN VIEW)

CONCRETE

1. **APPLICABLE SPECIFICATIONS AND CODES :**CONCRETE CONSTRUCTION SHALL CONFORM TO CSA 23.3-04 "DESIGN OF CONCRETE STRUCTURES FOR BUILDING" AS SPECIFIED IN THE NATIONAL BUILDING CODE OF CANADA 2005.
2. **REINFORCING STEEL DETAILS :** ALL DETAILING, FABRICATING AND ERECTION OF STEEL REINFORCING BARS, UNLESS OTHERWISE NOTED, SHALL BE IN ACCORDANCE WITH THE "METRIC SUPPLEMENT" IN CONJUNCTION WITH THE "REINFORCING STEEL MANUAL OF STANDARD PRACTICE", AS AVAILABLE FROM THE WESTERN REINFORCING CONTRACTORS ASSOCIATION.
3. **MINIMUM REINFORCING :** CONCRETE CONSTRUCTION SHALL BE REINFORCED CONCRETE EXCEPT WHERE PLAIN CONCRETE (P/C) IS SPECIFIED ON THE DRAWINGS, IN WHICH CASE NO REINFORCEMENT SHALL BE USED. CONCRETE THAT IS NOT DESIGNATED P/C AND HAS NO REINFORCEMENT INDICATED SHALL BE REINFORCED ACCORDING TO THE FOLLOWING SCHEDULES :

A) STEEL FOR WALLS AND SLABS
REINFORCEMENT EACH WAY

THICKNESS	SIZE	SPACING	POSITION
150	10M	300 C/C	ON ϕ
200	15M	300 C/C	ON ϕ
250	15M	300 C/C	EF
300	15M	300 C/C	EF
350	15M	250 C/C	EF
400	20M	300 C/C	EF
450	20M	250 C/C	EF
- MASS CONCRETE SHALL BE REINFORCED WITH 15M BARS AT 300 MINIMUM IN ALL FACES.

B) 10M @ 450 SHALL BE USED AS TRANSVERSE TIES IF NO OTHER REINFORCING IS NOTED.
4. **CONCRETE COVER :** CONCRETE COVER OF REINFORCING BARS, IF NOT SPECIFIED ON THE DRAWINGS, SHALL BE AS FOLLOWS OR SHALL BE EQUAL TO THE DIAMETER OF THE MAIN REINFORCING BAR IT COVERS, WHICHEVER IS LARGER :

CONDITIONSPECIFIED COVER (mm)

A) CONCRETE CAST AGAINST GROUND75

B) CONCRETE EXPOSED TO EARTH, LIQUIDS OR WEATHER

i) 20M BARS OR LARGER50

ii) 10M AND 15M BARS40

C) CONCRETE SLABS OR WALLS NOT EXPOSED TO EARTH, LIQUIDS OR WEATHER20

D) CONCRETE BEAMS OR COLUMNS50

5. REINFORCING BAR DEVELOPMENT AND LAP LENGTHS REINFORCING BAR DEVELOPMENT LENGTH AND LAP SPLICE LENGTHS SHALL BE AS SPECIFIED ON THE DRAWINGS OR IN ACCORDANCE WITH THE FOLLOWING SCHEDULES, WHICHEVER IS THE LONGER LENGTH :

i) DOWELS SHALL BE THE SAME SIZE AND SPACING AS BARS WITH WHICH THEY ARE LAPPED, UNLESS OTHERWISE NOTED.

ii) THE LENGTH OF LAP SPLICE OF BARS OF DIFFERENT DIAMETERS SHALL BE BASED ON THE BAR WITH THE SMALLER DIAMETER.

6. **STANDARD HOOK :** BARS ENDING IN RIGHT ANGLE BENDS OR HOOKS SHALL CONFORM TO THE REQUIREMENTS OF CSA CAN3-A23.1

7. **ANCHORAGE :** IF THE EMBEDMENT LENGTH IS LIMITED DUE TO THE LIMITED EXTENT OF THE CONCRETE STRUCTURE, THE BARS SHALL EXTEND AS FAR AS POSSIBLE AND END IN STANDARD HOOKS.

WOOD

1. ALL LUMBER AND WOOD PRODUCTS SHALL CONFORM TO B.C.B.C. 2006 PART 9 SECTION 9.3.2 "GRADES", 9.4.1 "GENERAL DESIGN", 9.4.2 "SNOWLOADS" AND 9.4.3 "DEFLECTIONS".

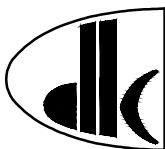
2. BUILDINGS AND THEIR STRUCTURAL MEMBERS MADE OF WOOD SHALL CONFORM TO CAN3-086 "ENGINEERING DESIGN IN WOOD, (WORKING STRESS DESIGN)", OR CAN/CSA 086.1 "ENGINEERING DESIGN IN WOOD, (LIMIT STATE DESIGN)".

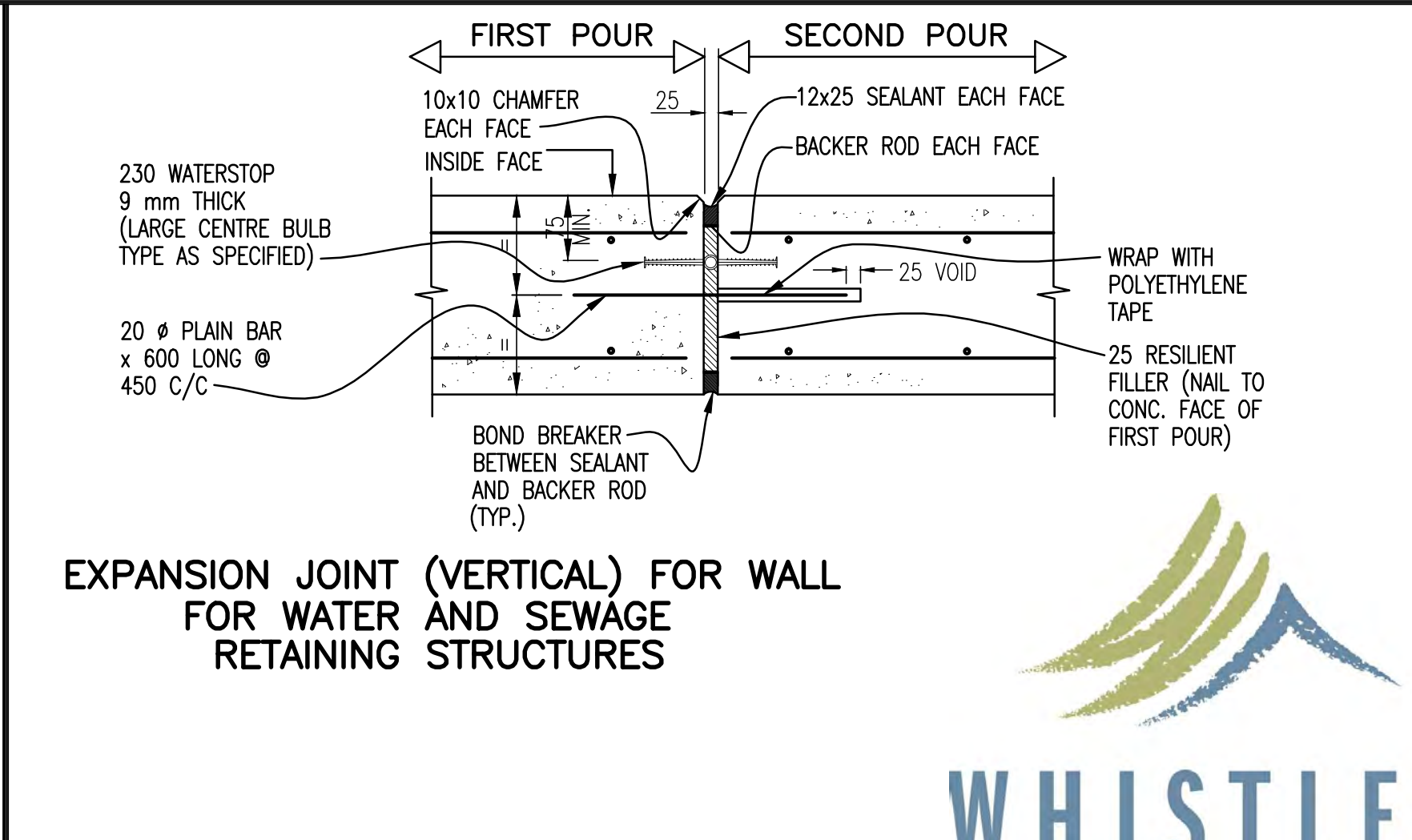
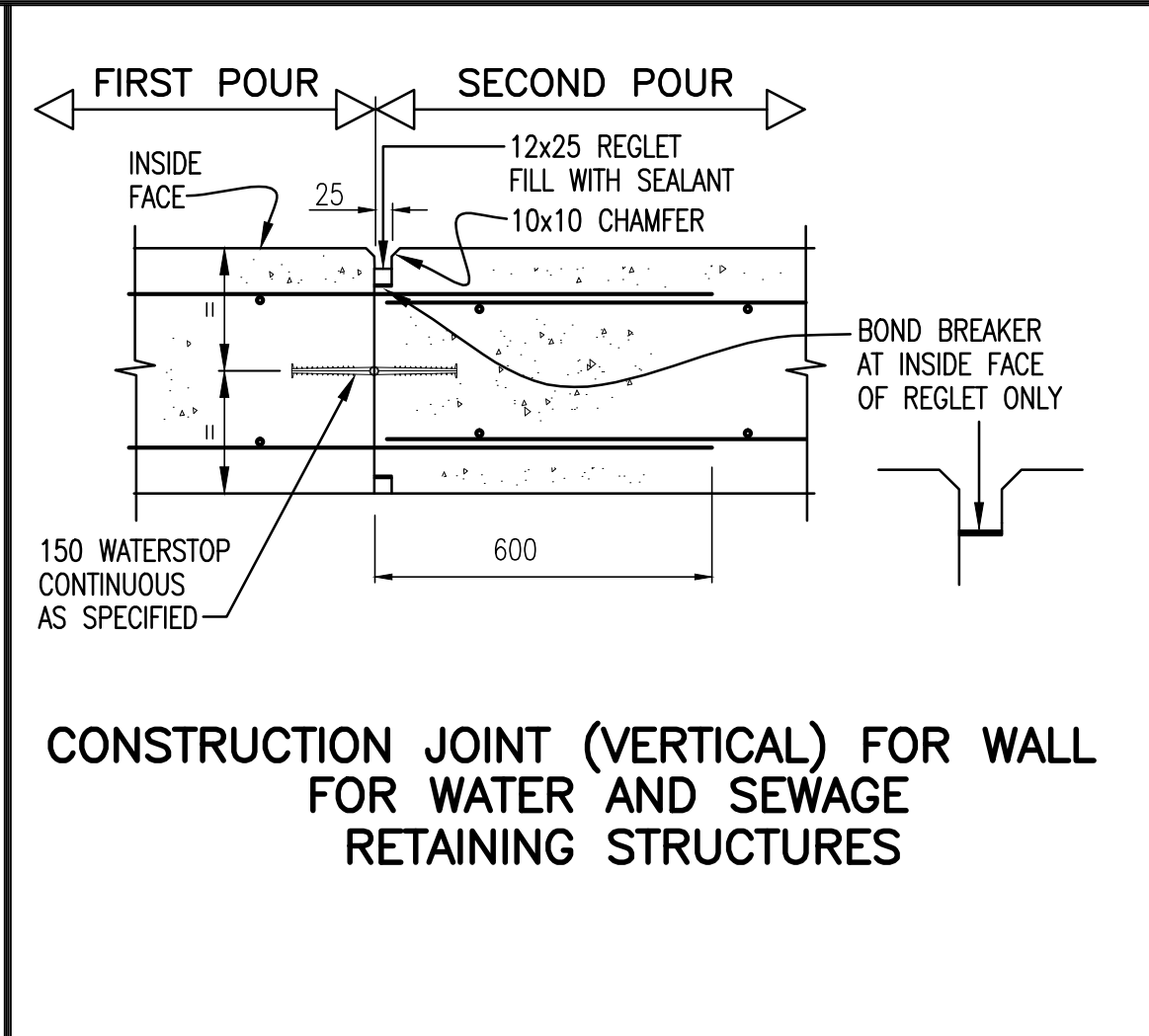
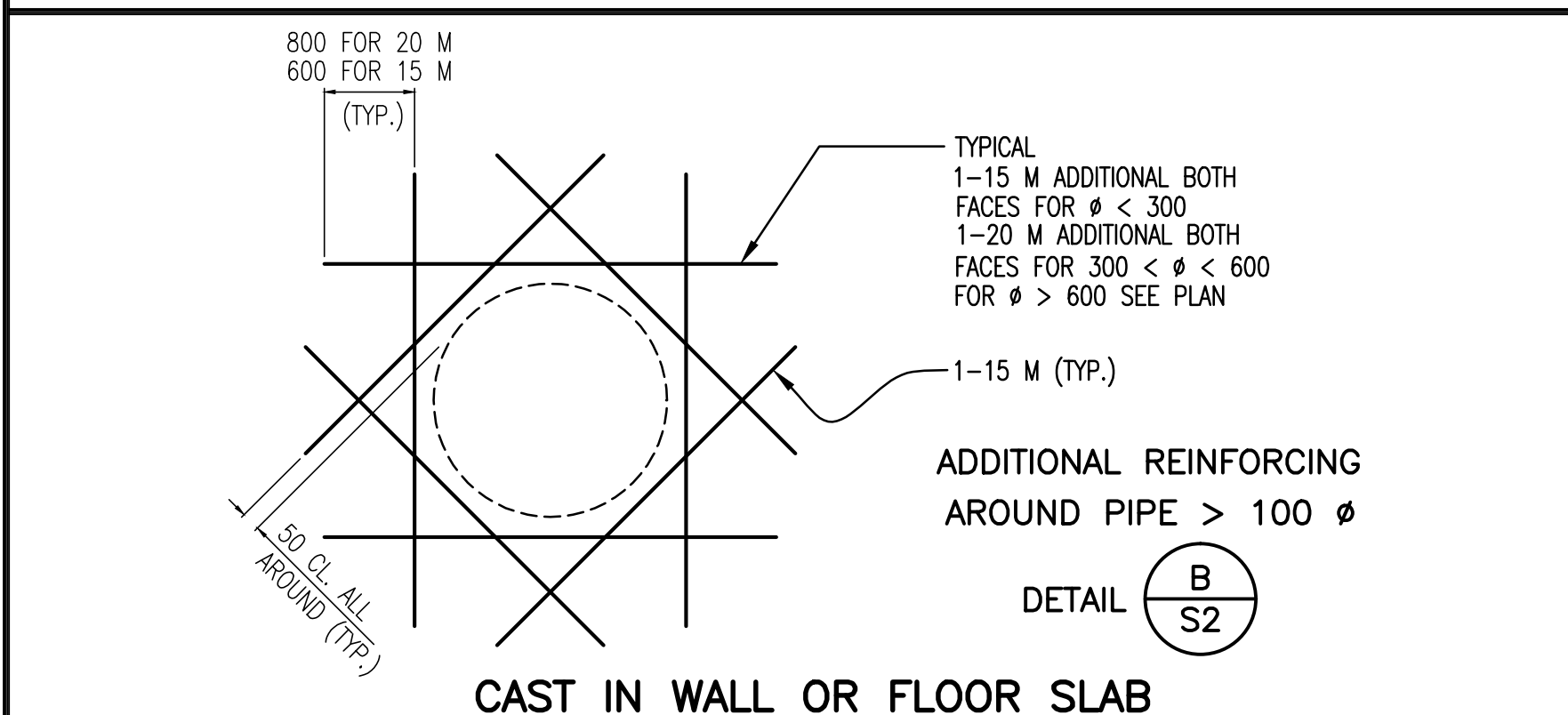
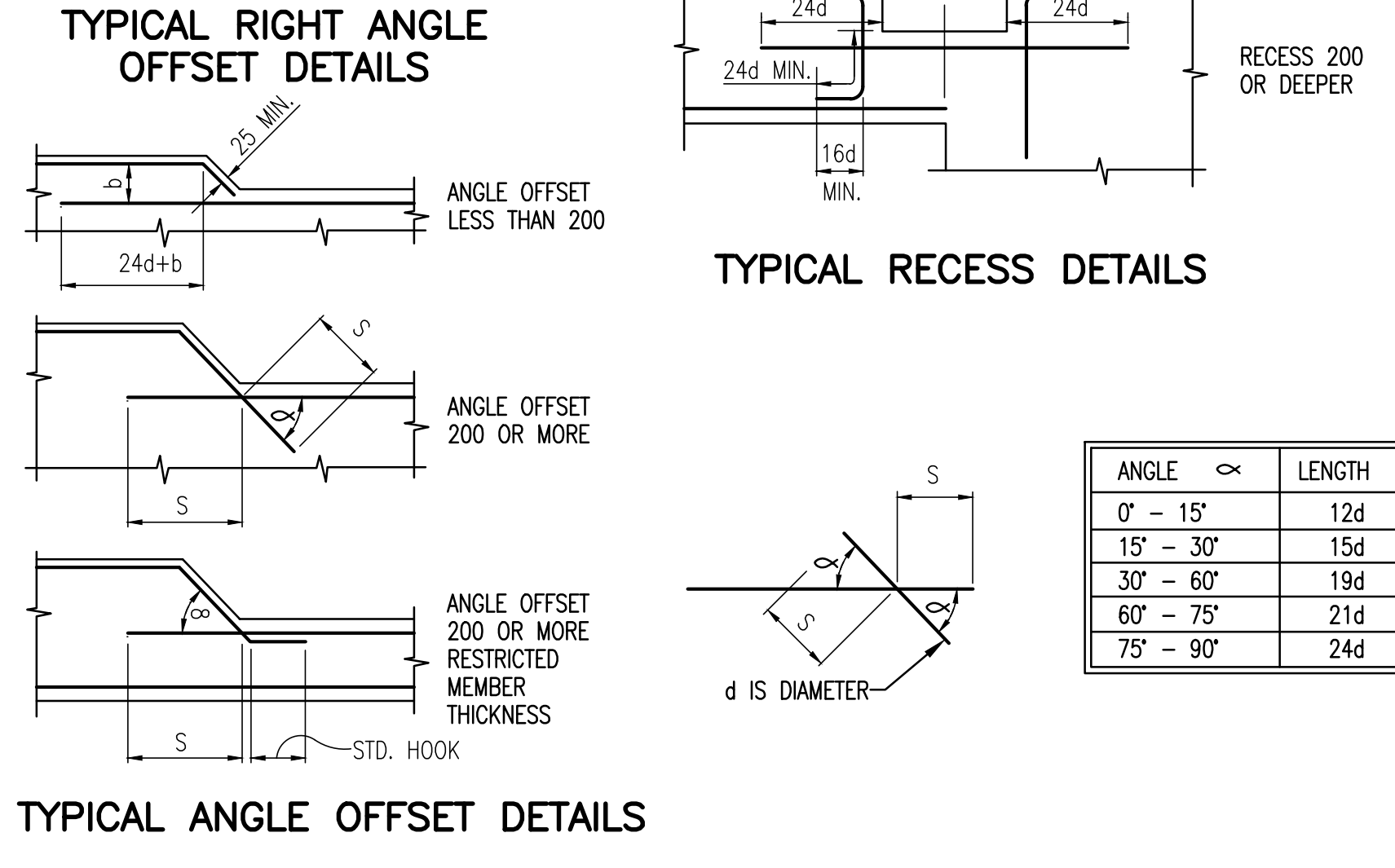
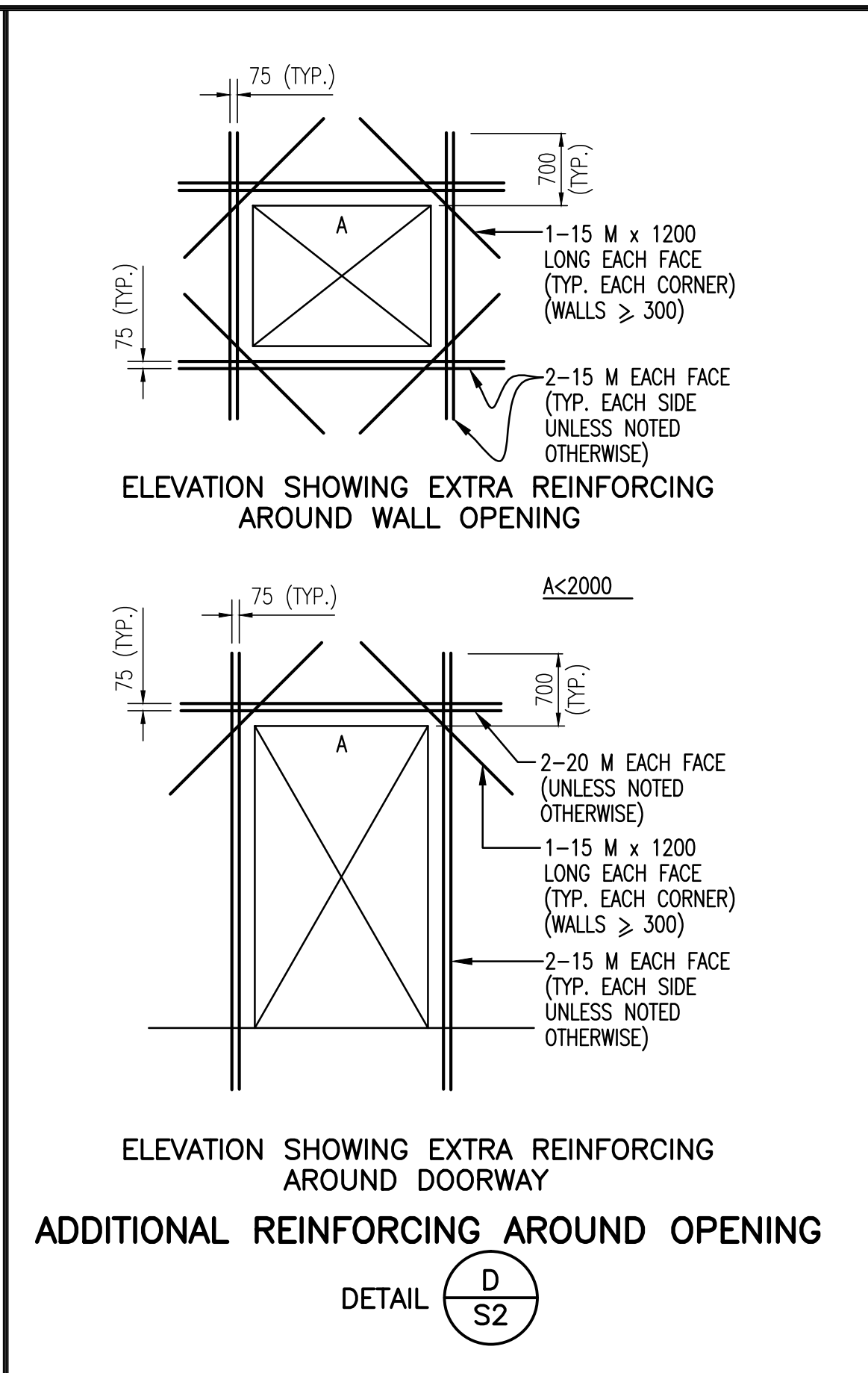
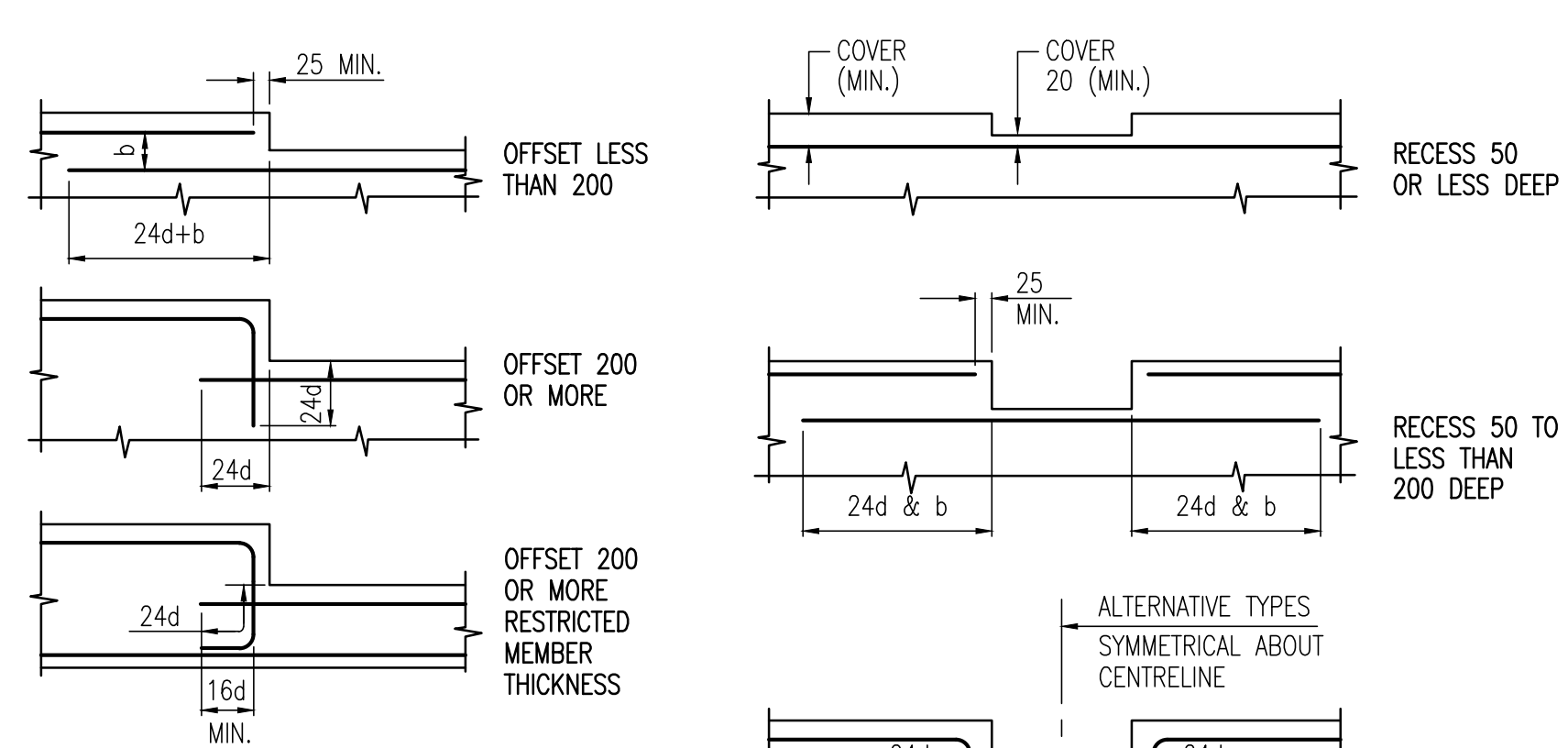
3. WOOD FRAME CONSTRUCTION SHALL CONFORM TO B.C.B.C. 2006 PART 9 SECTION 9.23

4. WOOD TRUSSES SHALL BE DESIGNED, BUILT AND INSTALLED IN CONFORMANCE WITH B.C.B.C. 2006 PART 9 SECTION 9.23.13.11 "ROOF TRUSSES".

NOTE :
WHERE DETAIL(S) SHOWN ON THE DRAWINGS
DIFFER FROM THE DETAILS SHOWN ON THIS
SHEET (S1), THEN THE DRAWING HAS PRIORITY.

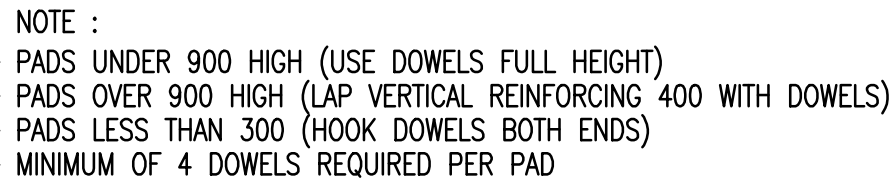
PLOT: FULL 1:50 HALF 1:100

AutoCAD DRAWING	REVISIONS	ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION	ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION	DESIGNED	MR	DRAWN	DBC	CHECKED	MR	 Dayton & Knight Ltd. CONSULTING ENGINEERS #210-880 HARBOURSIDE DR., NORTH VANCOUVER, B.C. V7P 3S1 TEL.: (604) 990-4800 FAX: (604) 990-4805 www.dayton-knight.com	RESORT MUNICIPALITY OF WHISTLER RAINBOW PARK PUMP STATION GENERAL CONSTRUCTION NOTES			SCALE: NONE DRAWING No. 179.75.1 SHEET No. S1 ISSUE C		
		A	MAY12/08	KS	MR	MR	ISSUED FOR TENDER																			
		B	JUL8/08	KS	MR	MR	ISSUED FOR CONSTRUCTION																			
		C	DEC15/09	AS	WB	WB	RECORD DRAWING																			





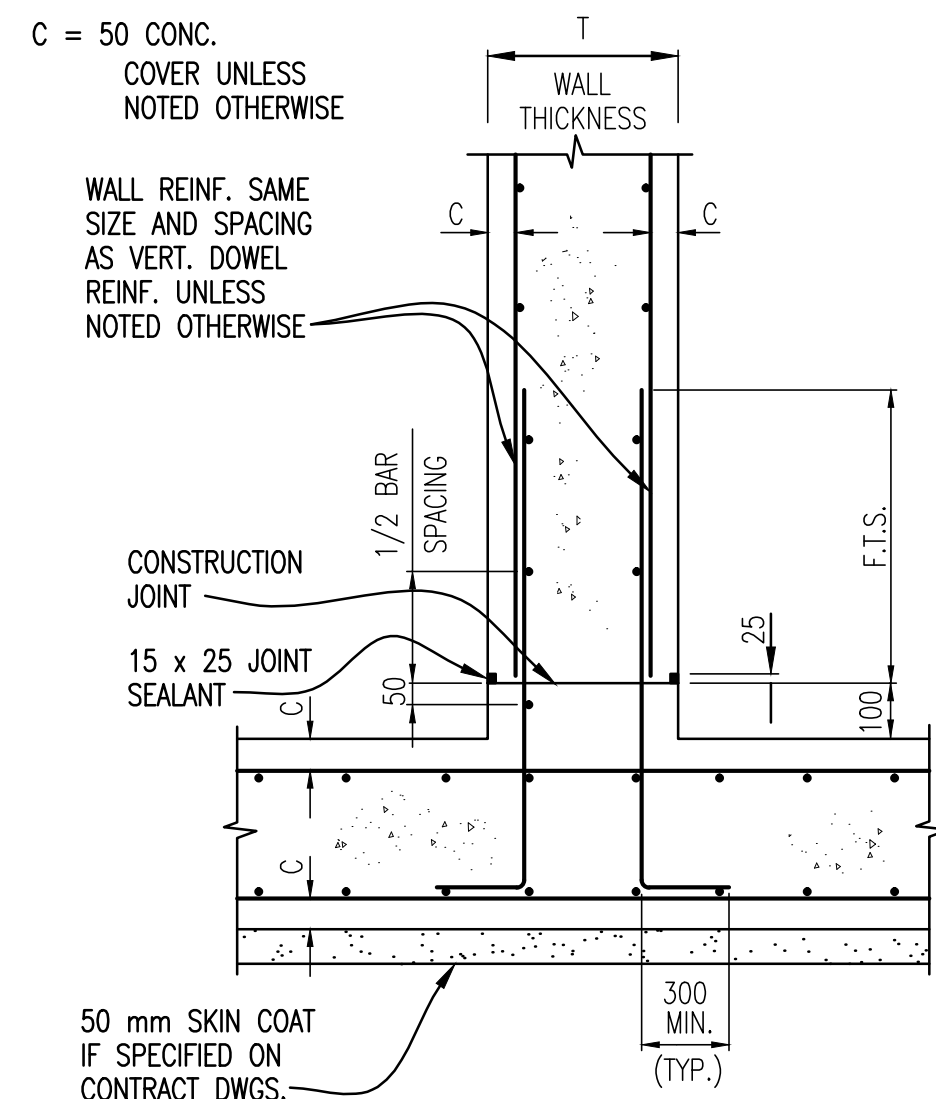
CONTROL JOINT FOR SLAB ON GRADE (NON-WATER RETAINING STRUCTURES)



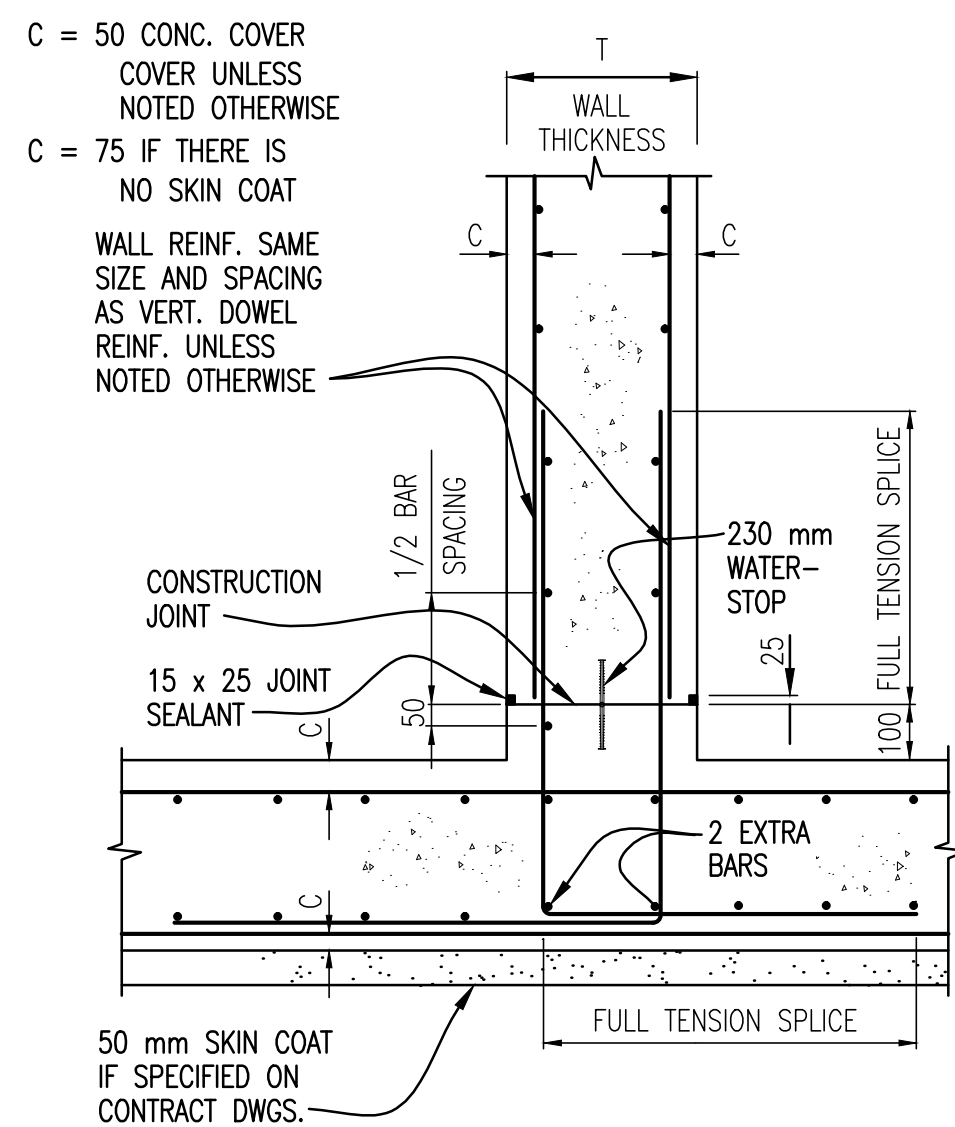
EQUIPMENT PAD CONSTRUCTION WITH FLOOR SLAB

NOTE :
WHERE DETAIL(S) SHOWN ON THE DRAWINGS
DIFFER FROM THE DETAILS SHOWN ON THIS
SHEET , THEN THE DRAWING HAS PRIORITY.

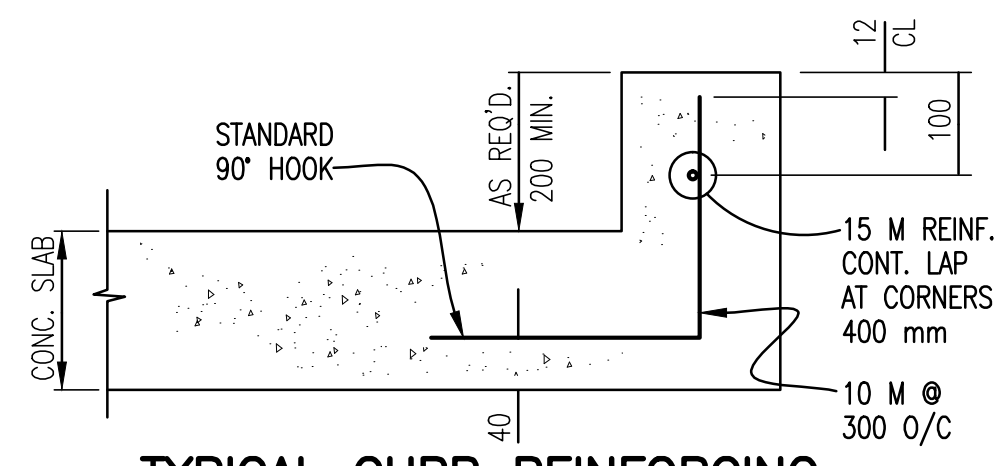
"These Record Drawings have been prepared based on information provided by the Contractor and others. Dayton & Knight Ltd. has not verified the accuracy or completeness of the information provided to them and does not warrant the accuracy or completeness of these Record Drawings. Users of these Record Drawings assume all risk of loss resulting from their use."



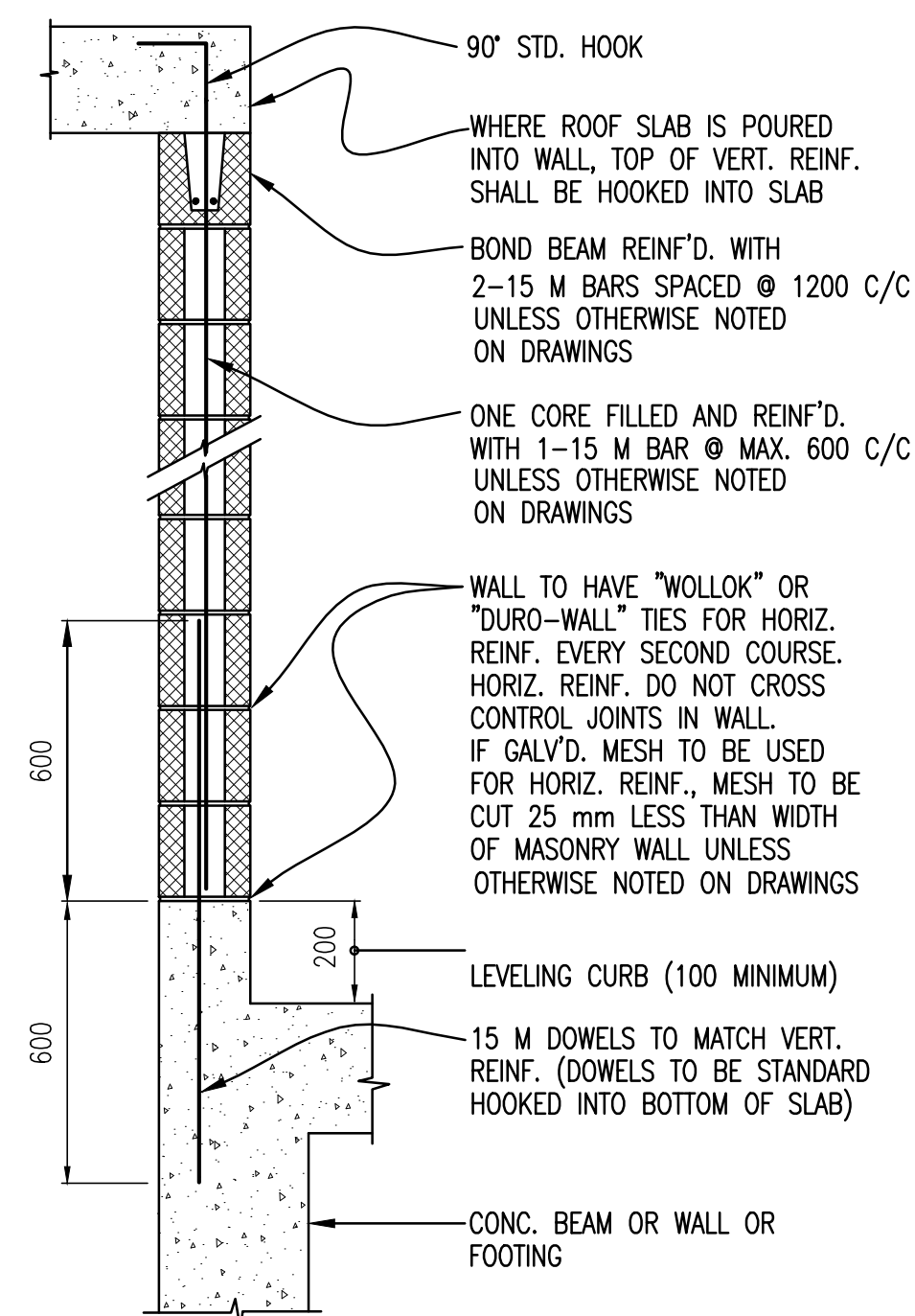
REINFORCING AT BASE SLAB TO WALL (NON-WATER RETAINING STRUCTURES)



REINFORCING AT BASE SLAB TO WALL (WATER RETAINING STRUCTURES)

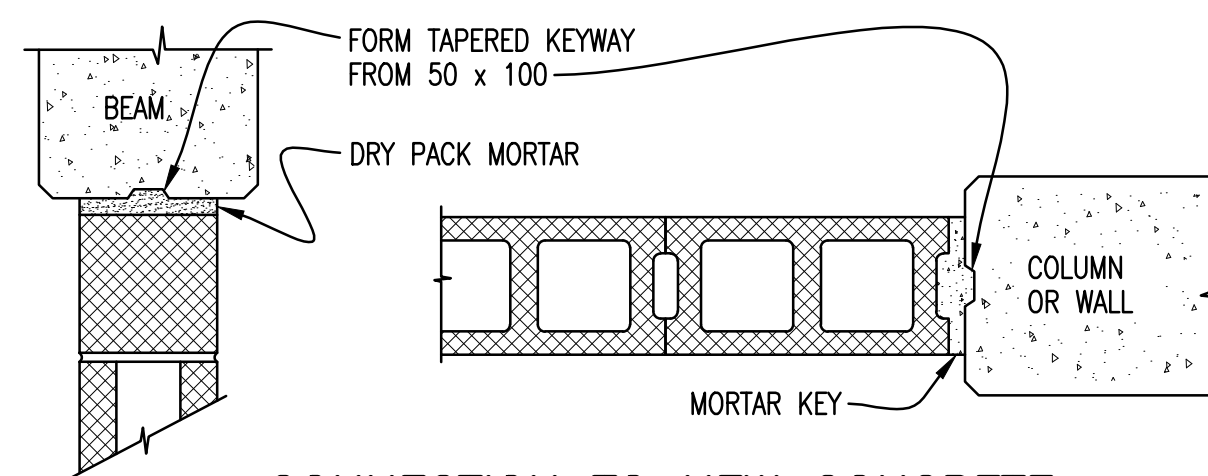


TYPICAL CURB REINFORCING

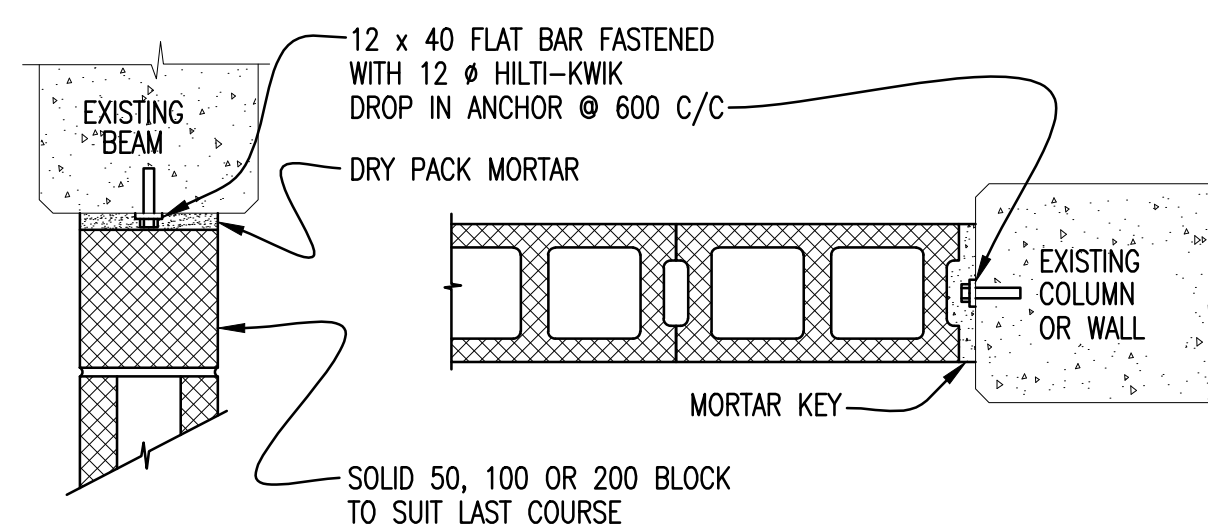


- NOTES :
1. LINTEL IS REQUIRED FOR TOP OF OPENING. SEE LINTEL DETAILS.
 2. PROVIDE VERTICAL REINFORCING FOR BOTH SIDES OF OPENING IN WALL AND EACH CORNER OF WALLS.
 3. PROVIDE BOND BEAM ABOVE AND BELOW OPENINGS IN WALL AND EXTEND BOND BEAM 800 mm BEYOND EDGES.
 4. FILL FOR BLOCKS AND BOND BEAMS TO BE 30 MPa CONCRETE.
 5. TYPE S MORTAR TO BE USED FOR ALL JOINTS.

TYPICAL MASONRY WALL
ANCHORING TO CONCRETE AT BASE
STANDARD MASONRY BLOCKS

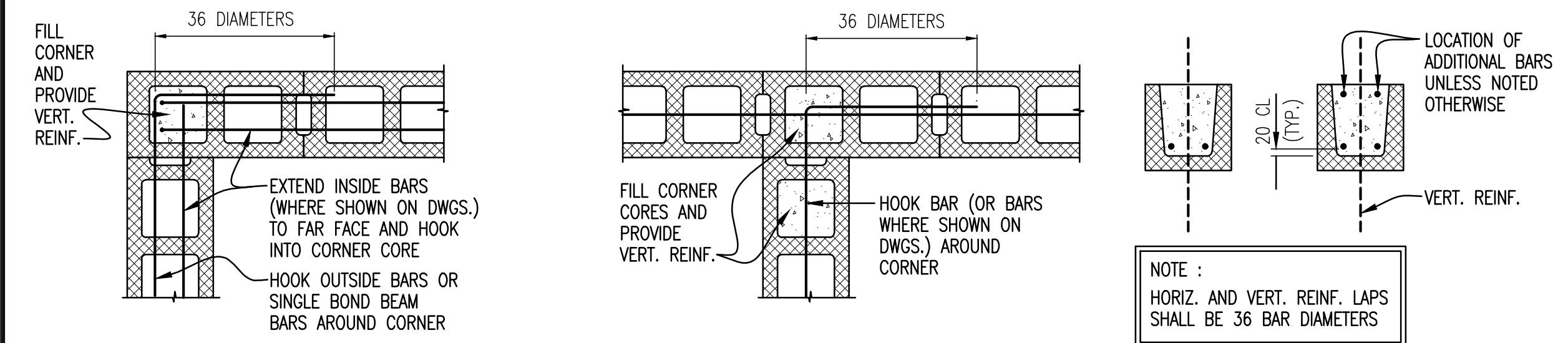


CONNECTION TO NEW CONCRETE STANDARD MASONRY BLOCKS



CONNECTION TO EXISTING CONCRETE

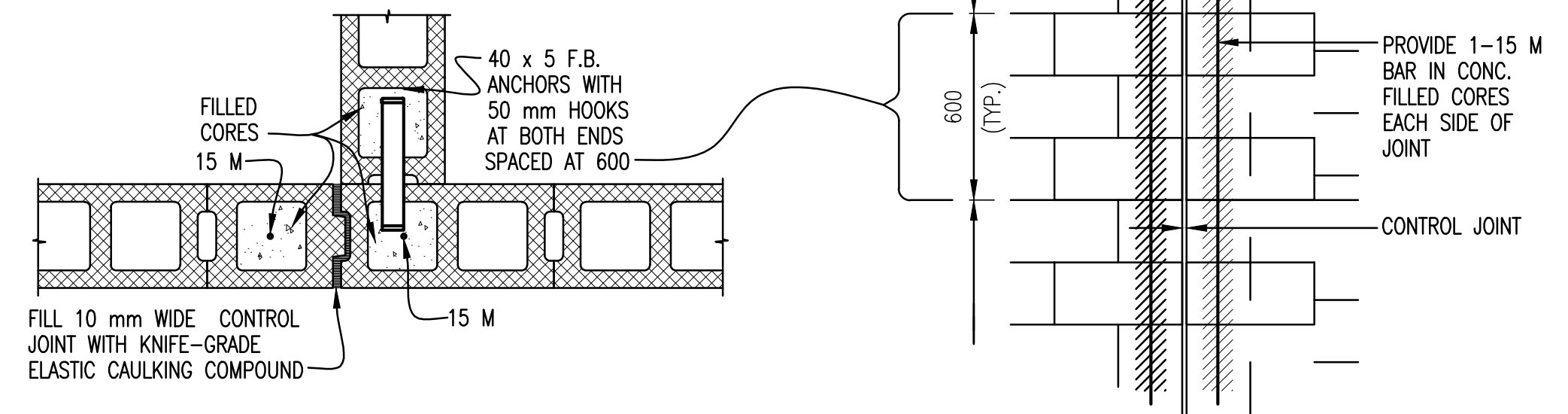
STANDARD MASONRY BLOCKS



EXTERIOR BOND BEAM

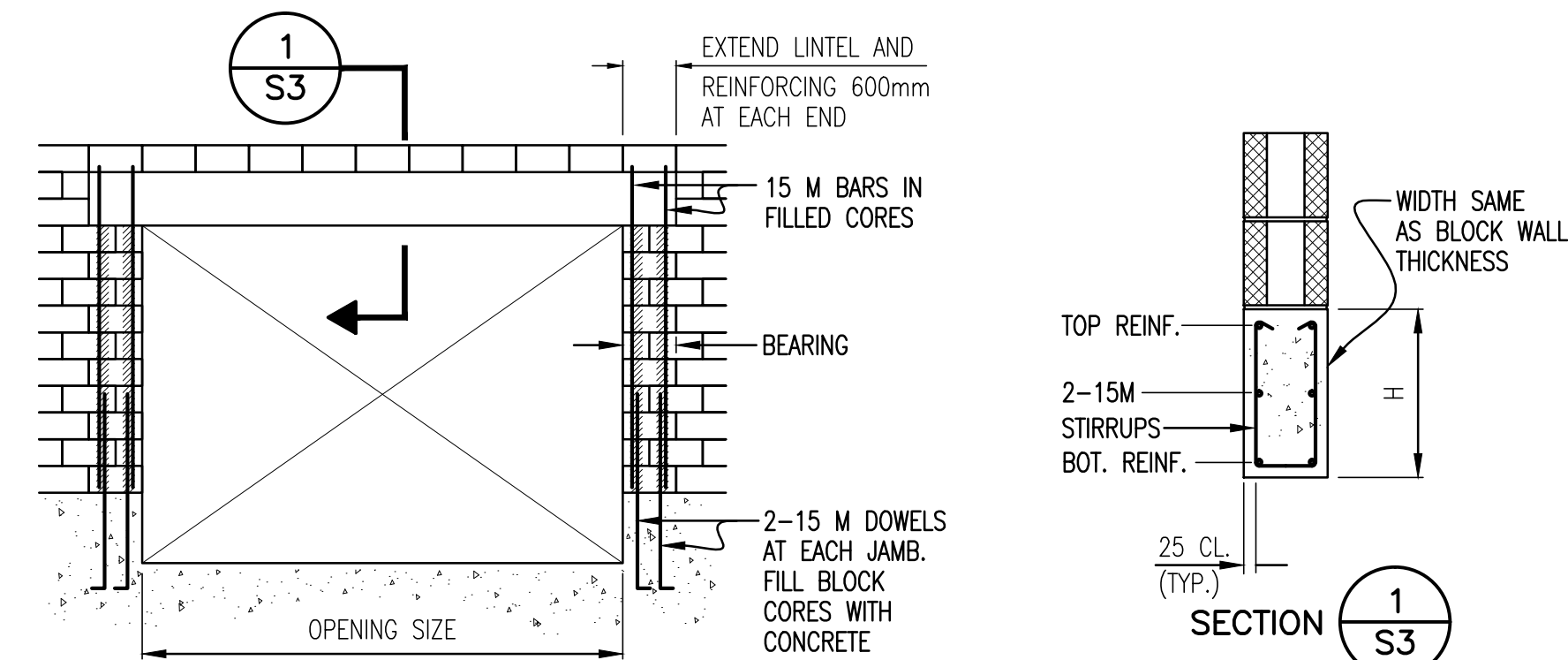
INTERIOR BOND BEAM

TYPICAL HORIZONTAL BOND BEAMS



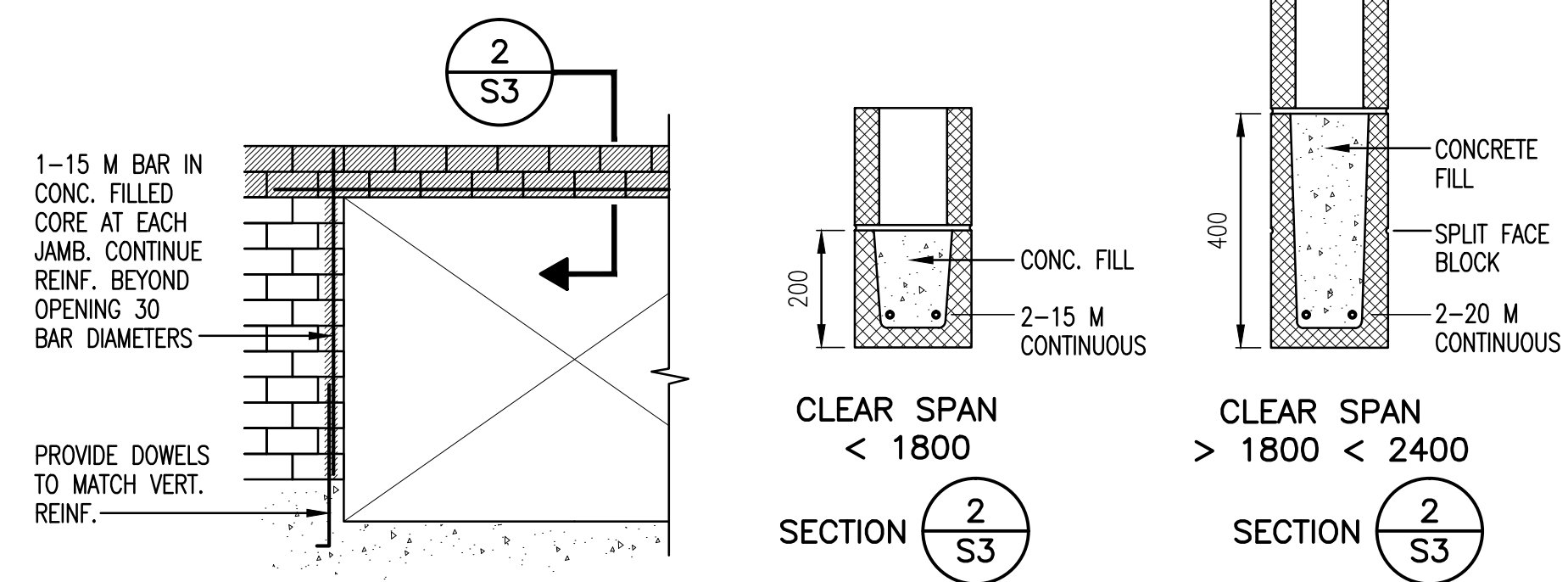
CONTROL JOINT BLOCKS AND ANCHORS

CONNECTION AND CONTROL JOINTS STANDARD MASONRY BLOCKS



OPENING SIZE	H	BOTTOM REINF.	TOP REINF.	STIRRUPS	BEARING
2400 TO 3000	400	3-20 M	2-15 M	10 M @ 300 C/C	400
3000 TO 3600	400	2-25 M	2-15 M	10 M @ 300 C/C	400
3600 TO 4200	600	2-25 M + 1-20 M	2-15 M	10 M @ 250 C/C	400
4200 TO 4800	600	2-25 M + 2-20 M	2-20 M	10 M @ 200 C/C	400

POURED CONCRETE LINTEL IN BLOCK WALL



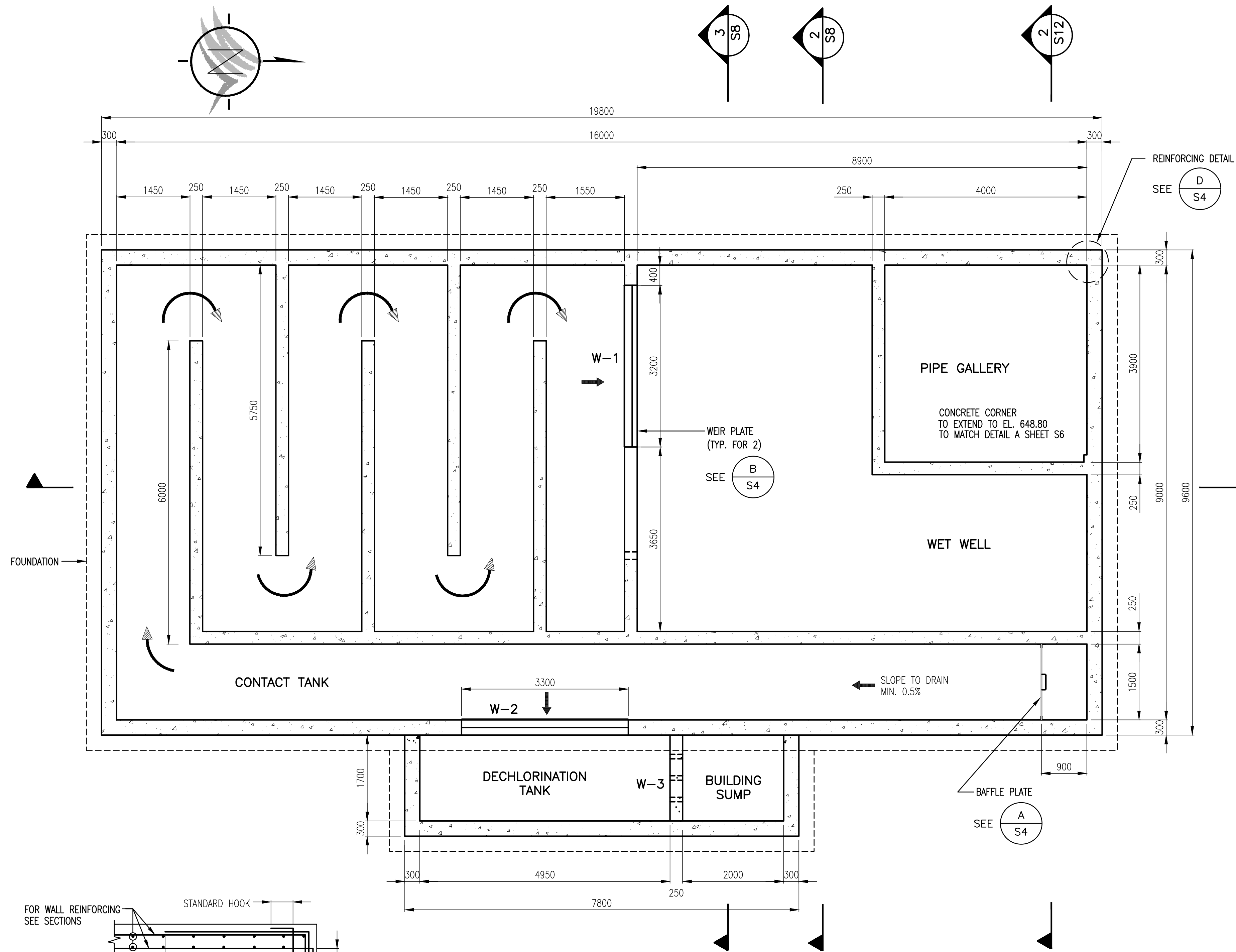
LINTEL DETAILS – STANDARD MASONRY BLOCKS

NOTE : FOR GIANT BRICK, USE SAME MASONRY DETAILS

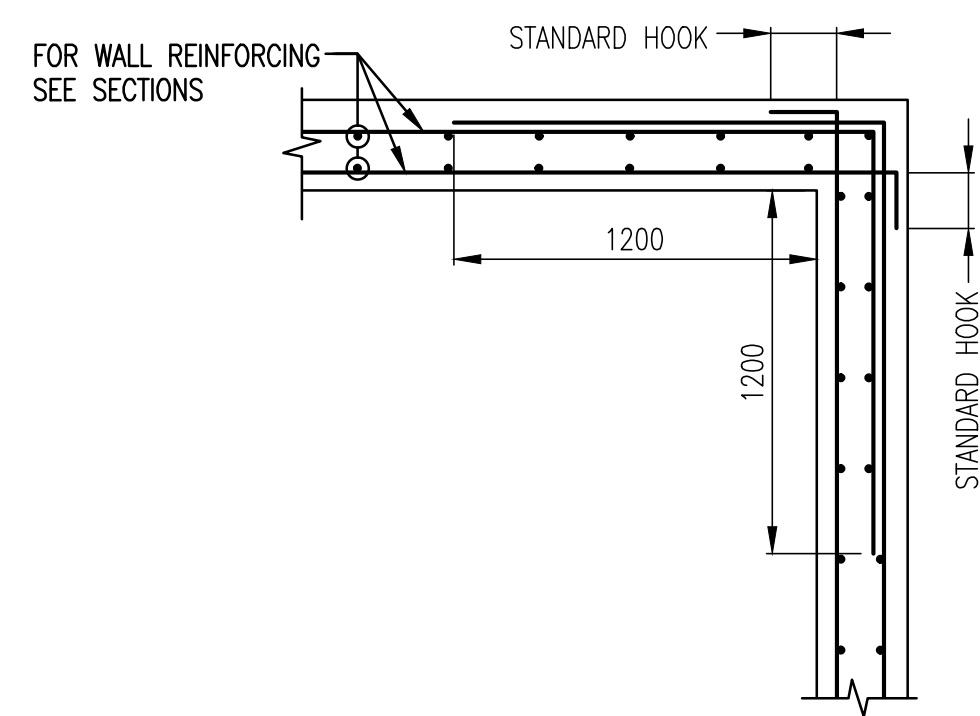
- NOTES :
1. EXTEND LINTEL AND REINFORCING 400mm AT EACH END.
 2. COMPRESSIVE STRENGTH OF CONCRETE TO BE 30 MPa.
 3. FOR BOTTOM REINFORCING USE BAR SPACER WHEN 3 OR 4 BARS REQUIRED.

- NOTES :
1. PROVIDE MIN. 400 mm BEARING EACH END OF LINTELS. FILL CORES WITH CONCRETE AND 1-15 M BAR VERTICAL TO EACH END.
 2. ALL CONCRETE FILL TO BE 30 MPa.

FILE: P:\Records\WHISTLER\179-75-1\STRUCTURAL\179-75-1 S4.dwg Tab: S4 11-01-14 dehen



FLOOR PLAN @ EL. 648.80
1:50

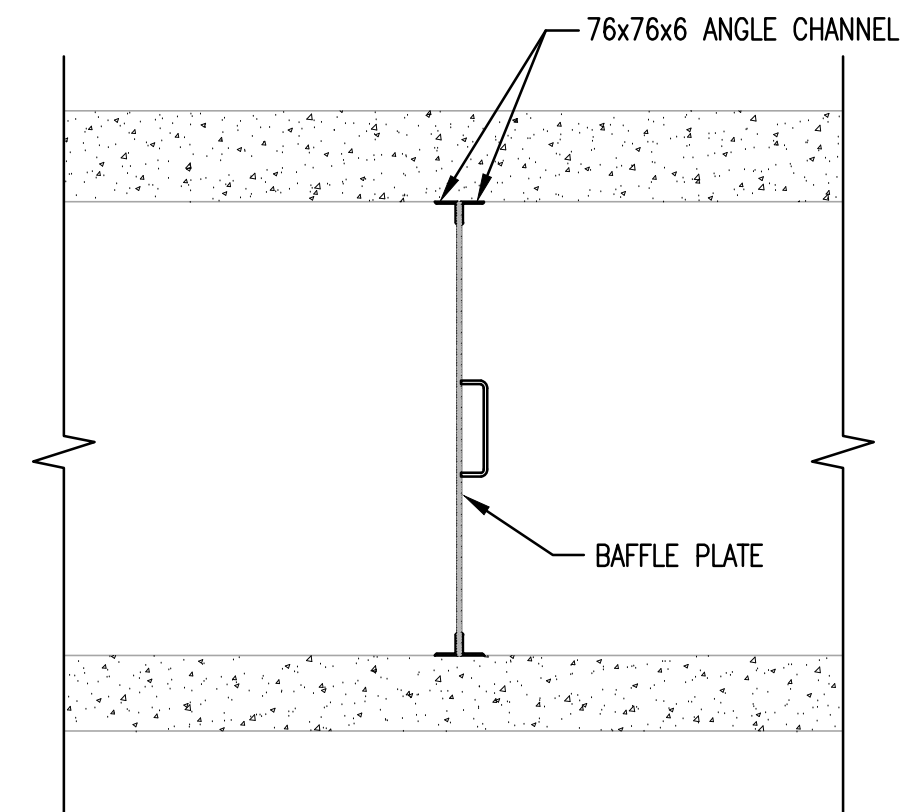


TYPICAL REINFORCING AT WALL CORNER
BELOW EL. 652.00

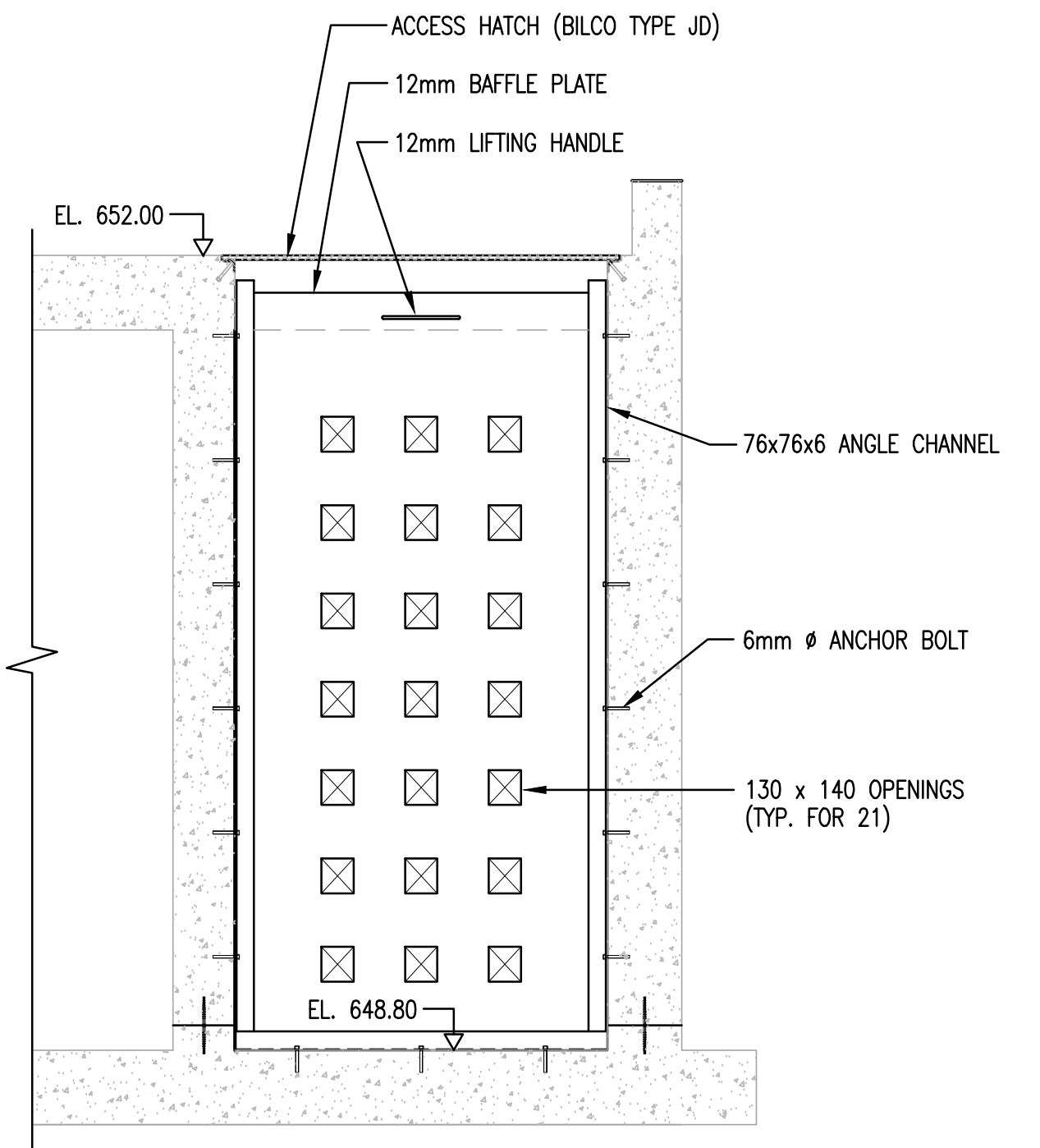
DETAIL
1:25
D
S4

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WEIR ELEVATIONS				
WEIR No.	LENGTH (mm)	STEEL PLATE	TOP OF CONC. ELEV. (m)	TOP OF WEIR PLATE ELEV. (m)
W-1	3200	YES	651.20	651.40
W-2	3300	YES	651.35	651.55
W-3	1700	NO	651.35	651.35

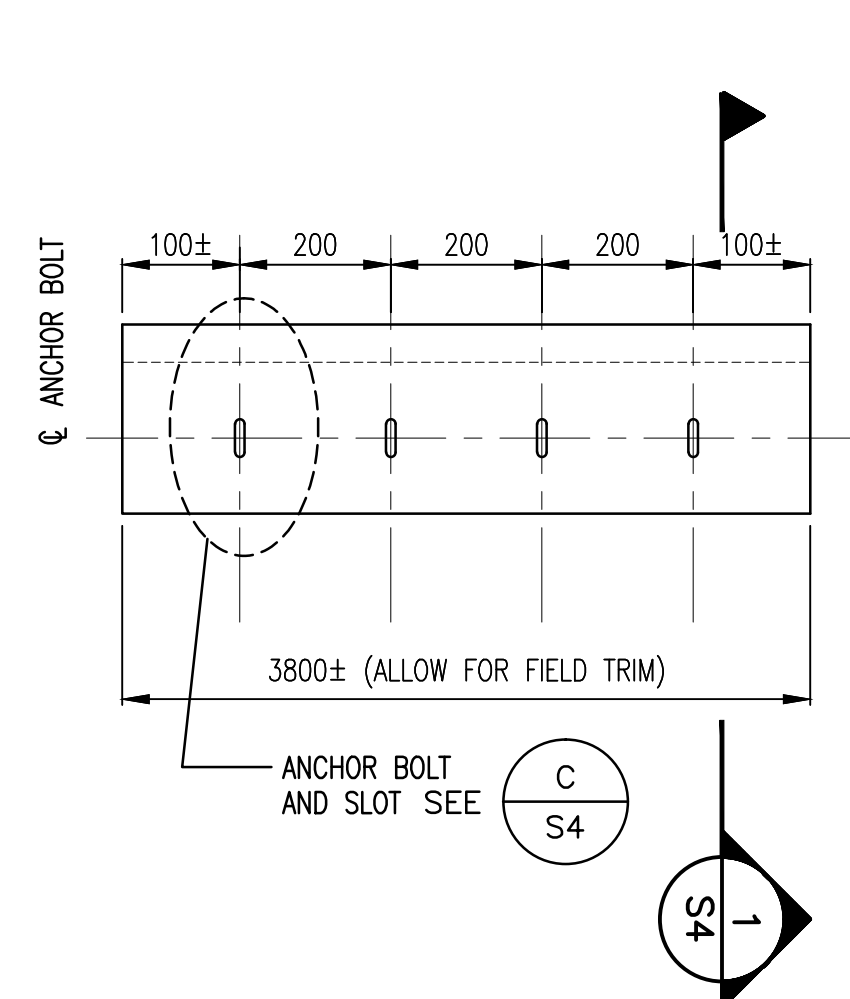


PLAN - BAFFLE WALL



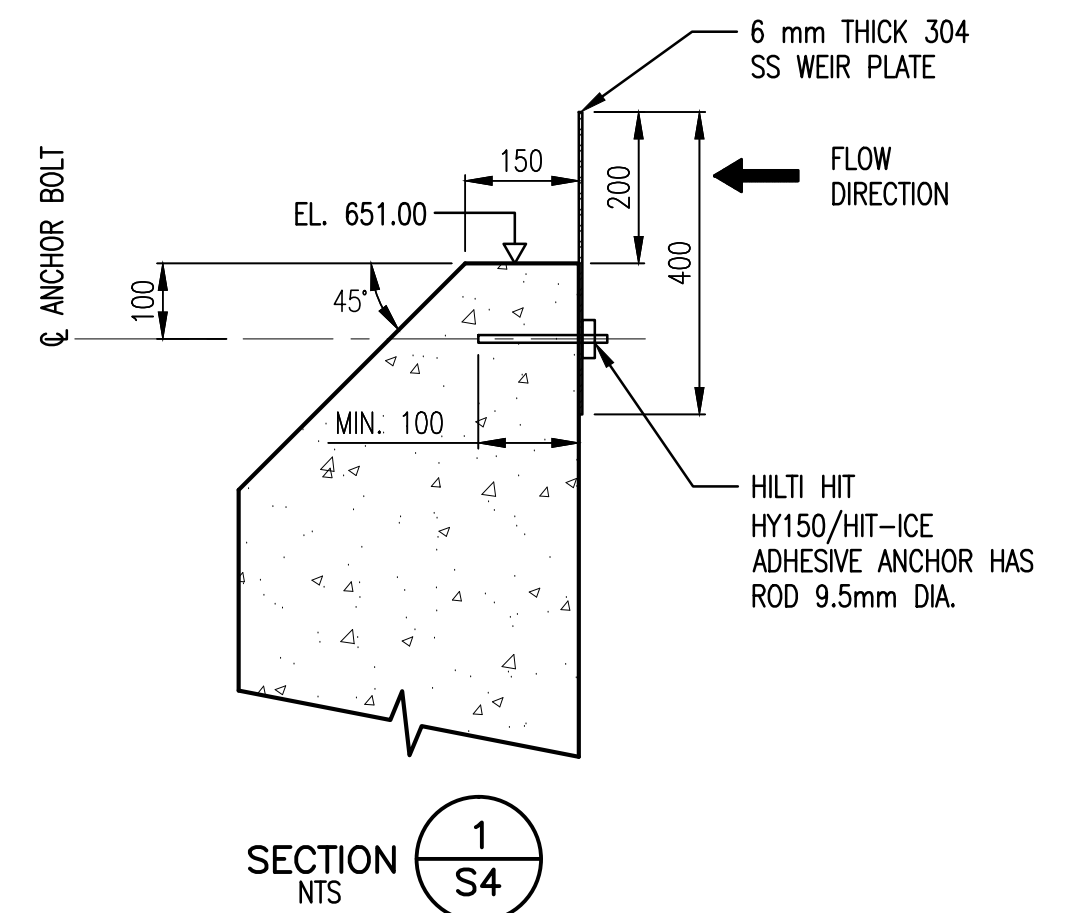
ELEVATION - BAFFLE PLATE

DETAIL
1:25
A
S4
(ALL TO BE 316 SS MATERIALS)

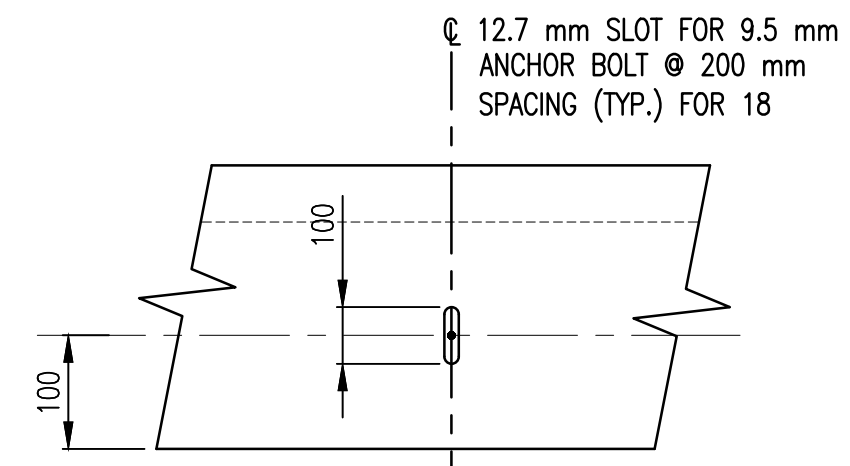


WEIR PLATE W-1 & W-2
(ALL 316 SS MATERIALS)
NOTE: W-3 DOES NOT HAVE A WEIR PLATE

DETAIL
NTS
B
S4



SECTION
NTS
1
S4



ANCHOR BOLT AND SLOT DETAIL

DETAIL
NTS
C
S4



WHISTLER

PLOT: FULL 1:1 HALF 1:2

AutoCAD
DRAWING

REVISIONS	ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION
A	MAY12/08	KS	MR	MR		ISSUED FOR TENDER
B	JUL8/08	KS	MR	MR		ISSUED FOR CONSTRUCTION
C	DEC15/09	AS	WB	WB		RECORD DRAWING

ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION
A	MAY12/08	KS	MR	MR	ISSUED FOR TENDER
B	JUL8/08	KS	MR	MR	ISSUED FOR CONSTRUCTION
C	DEC15/09	AS	WB	WB	RECORD DRAWING

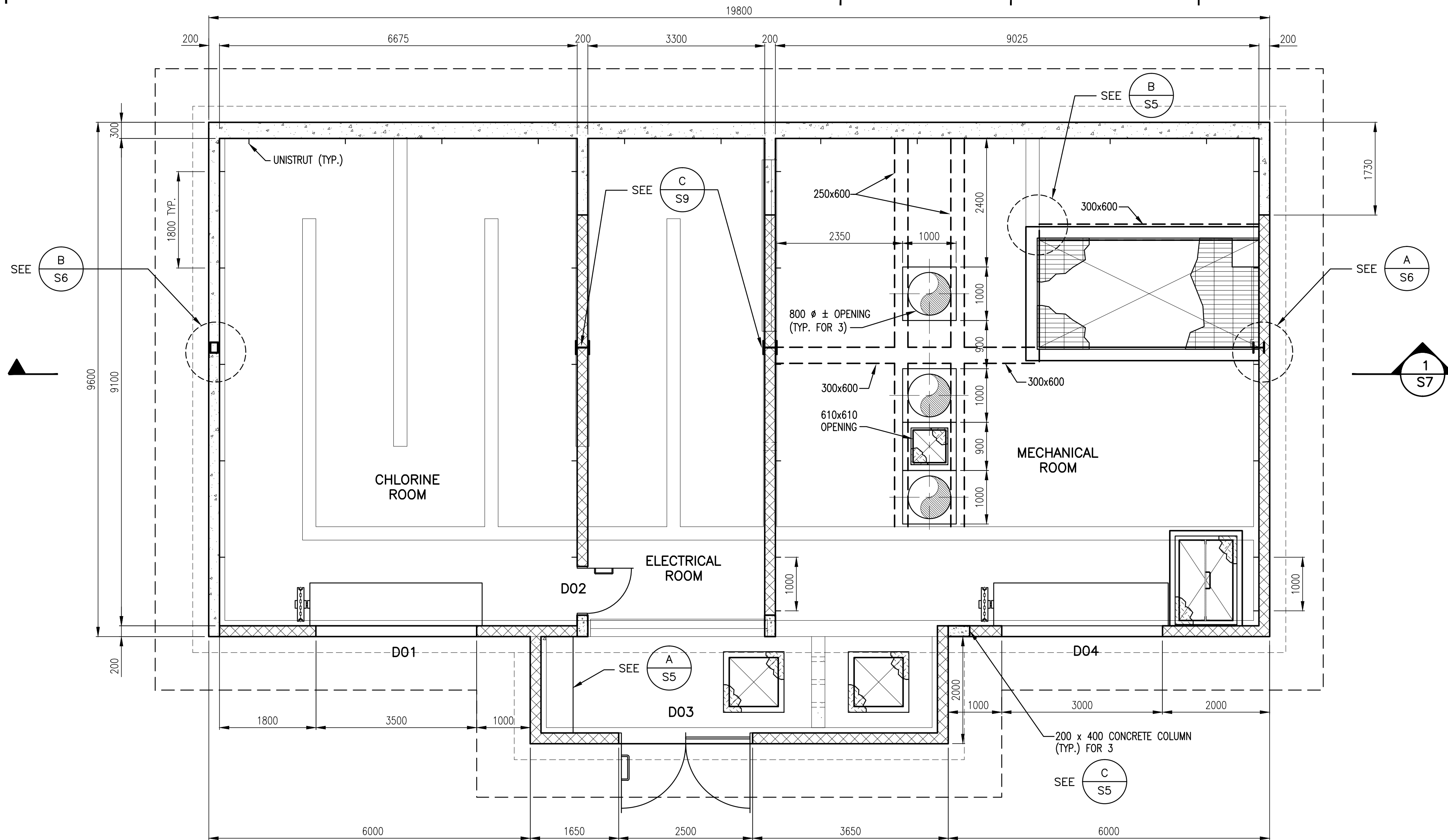
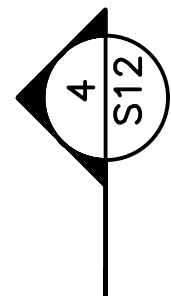
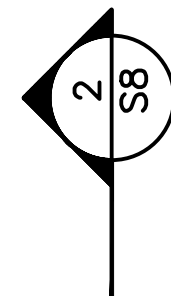
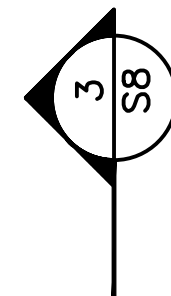
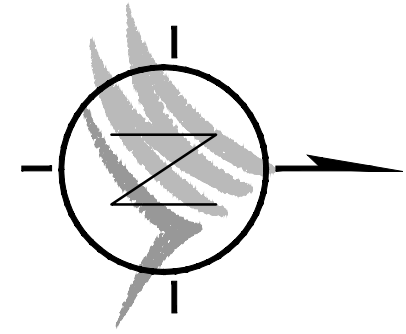
ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION
A	MAY12/08	KS	MR	MR	ISSUED FOR TENDER
B	JUL8/08	KS	MR	MR	ISSUED FOR CONSTRUCTION
C	DEC15/09	AS	WB	WB	RECORD DRAWING

DESIGNED	MR
DRAWN	KS
CHECKED	MR

Dayton & Knight Ltd.
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RESORT MUNICIPALITY OF WHISTLER
RAINBOW PARK PUMP STATION
STRUCTURAL - FLOOR PLAN @ EL. 648.80 - DETAILS

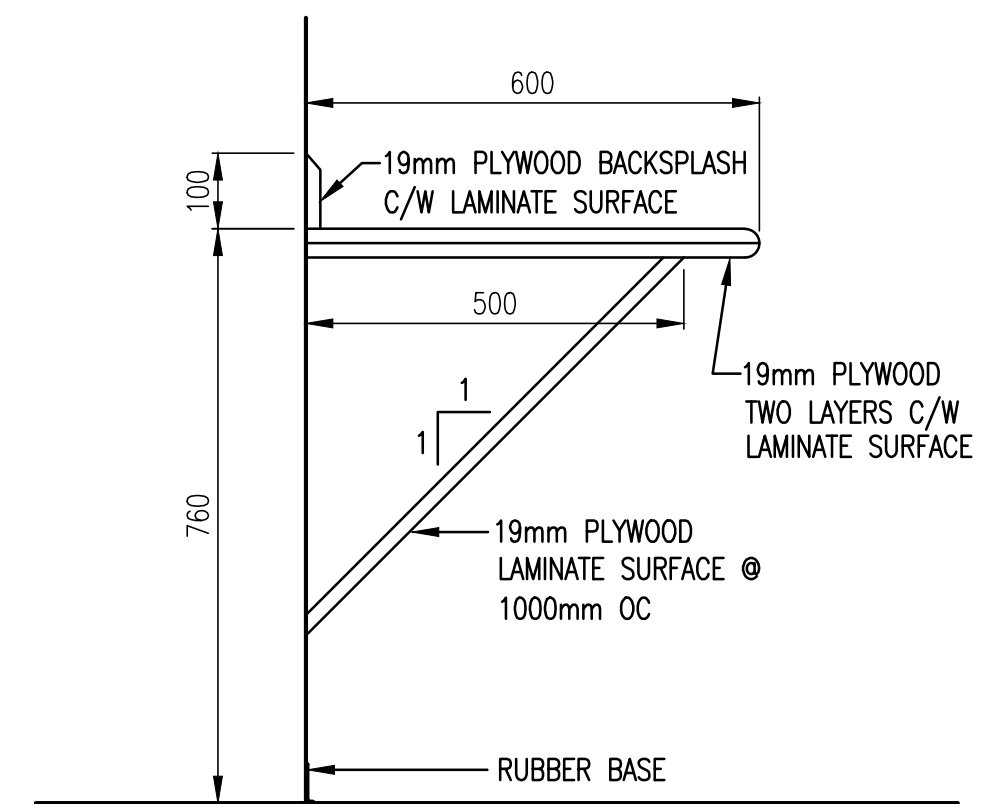
SCALE: AS SHOWN
DRAWING No. 179.5.1
SHEET No. S4
ISSUE C



FLOOR PLAN @ EL. 652.00
1:50

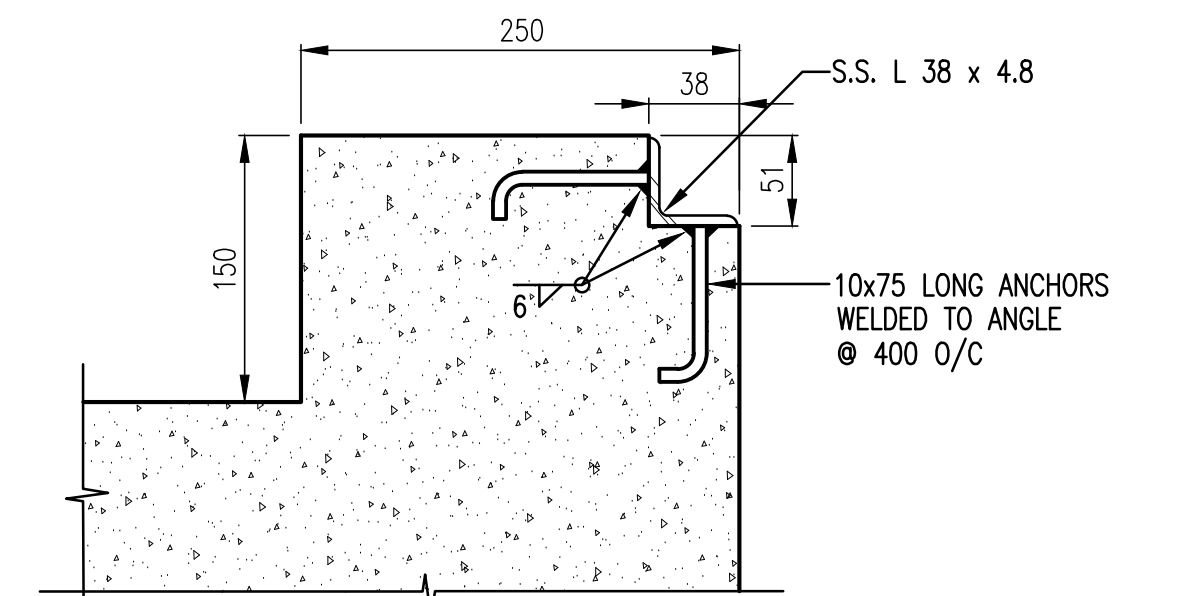
NOTE :
WALL FOOTINGS BELOW GRADE NOT SHOWN FOR CLARITY

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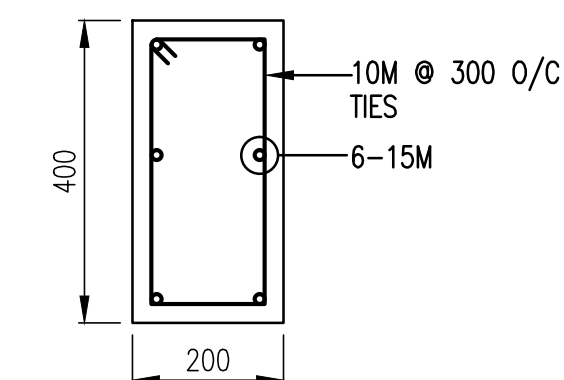
WORKBENCH DETAIL

DETAIL A
S5



GRATING SUPPORT DETAIL

DETAIL B
S5



REINFORCING DETAILS FOR
200 x 400 CONCRETE COLUMN

DETAIL C
S5

(SEE NOTE 1 THIS SHEET)

NOTES:
1. STEEL BAR IN BLOCK BOND BEAM SHOULD GO THROUGH OR ANCHOR MIN. 300mm WITH 200mm HOOK INTO CONCRETE COLUMN OR CONCRETE WALL, UNLESS OTHERWISE NOTED.



WHISTLER

FILE: P:\Records\WHISTLER\179-75-1\STRUCTURAL\179-75-1_S5.dwg Tab: S5 11-01-14 dchen

PLOT: FULL 1:1 HALF 1:2

ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION
A	MAY12/08	KS	MR	MR	ISSUED FOR TENDER
B	JUL8/08	KS	MR	MR	ISSUED FOR CONSTRUCTION
C	OCT8/08	KS	WB	WB	DIMENSION REVISED

ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION
D	DEC17/09	AS	WB	WB	RECORD DRAWING

DESIGNED	MR
DRAWN	KS
CHECKED	MR



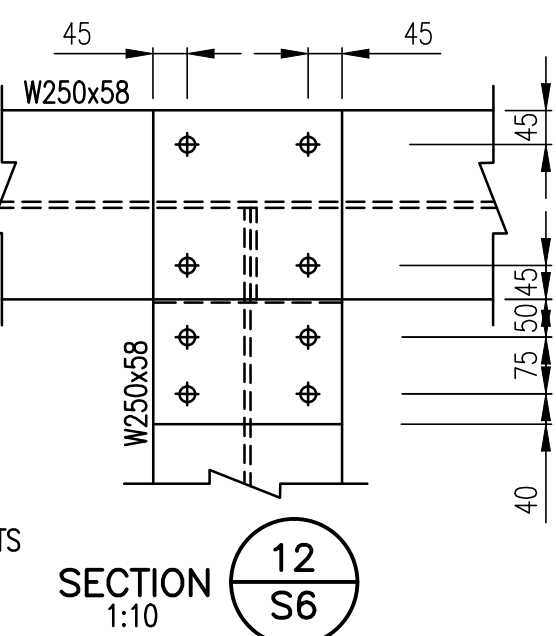
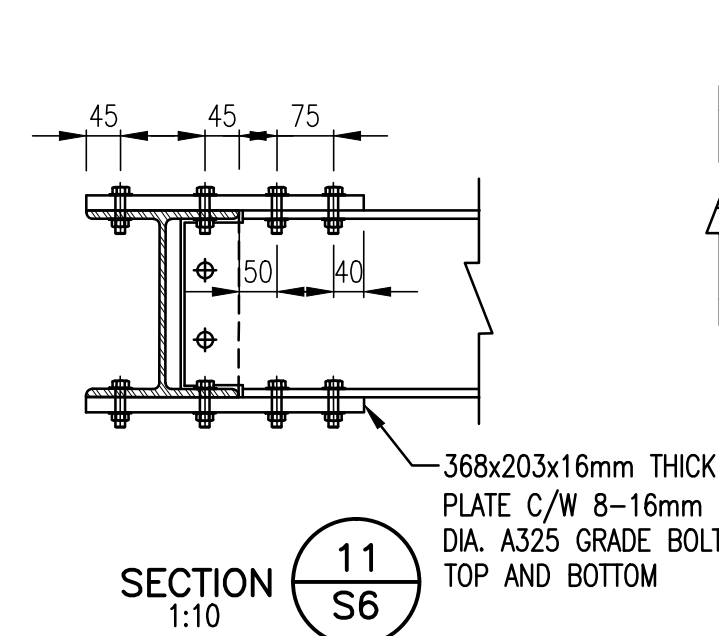
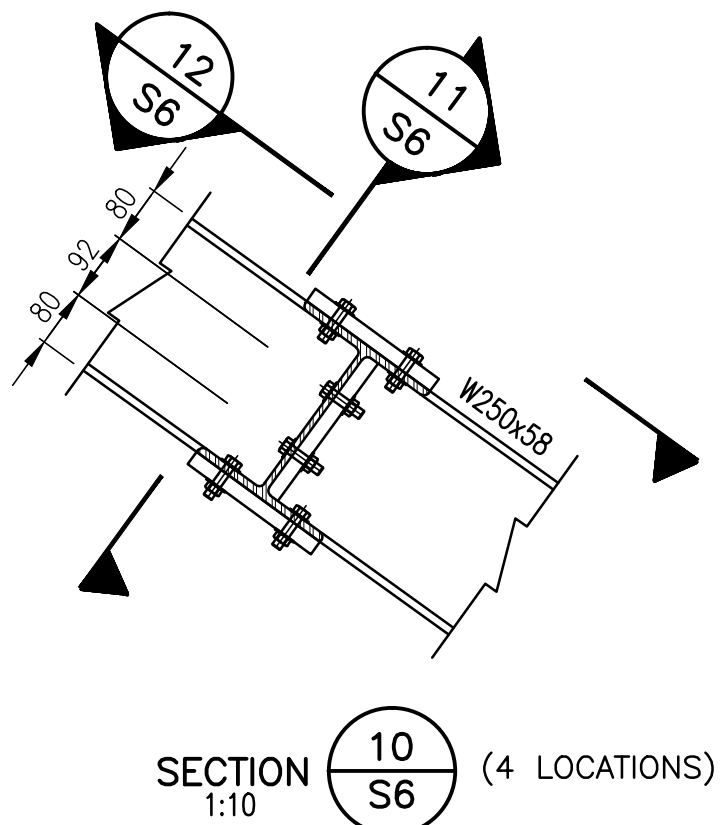
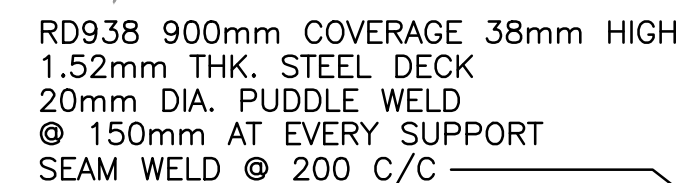
Dayton & Knight Ltd.
CONSULTING ENGINEERS
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RESORT MUNICIPALITY OF WHISTLER
RAINBOW PARK PUMP STATION
STRUCTURAL - FLOOR PLAN @ EL. 652.00 - DETAILS

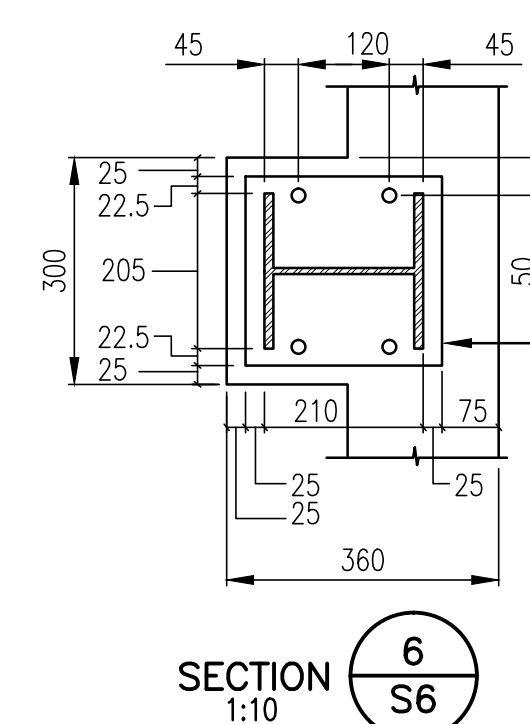
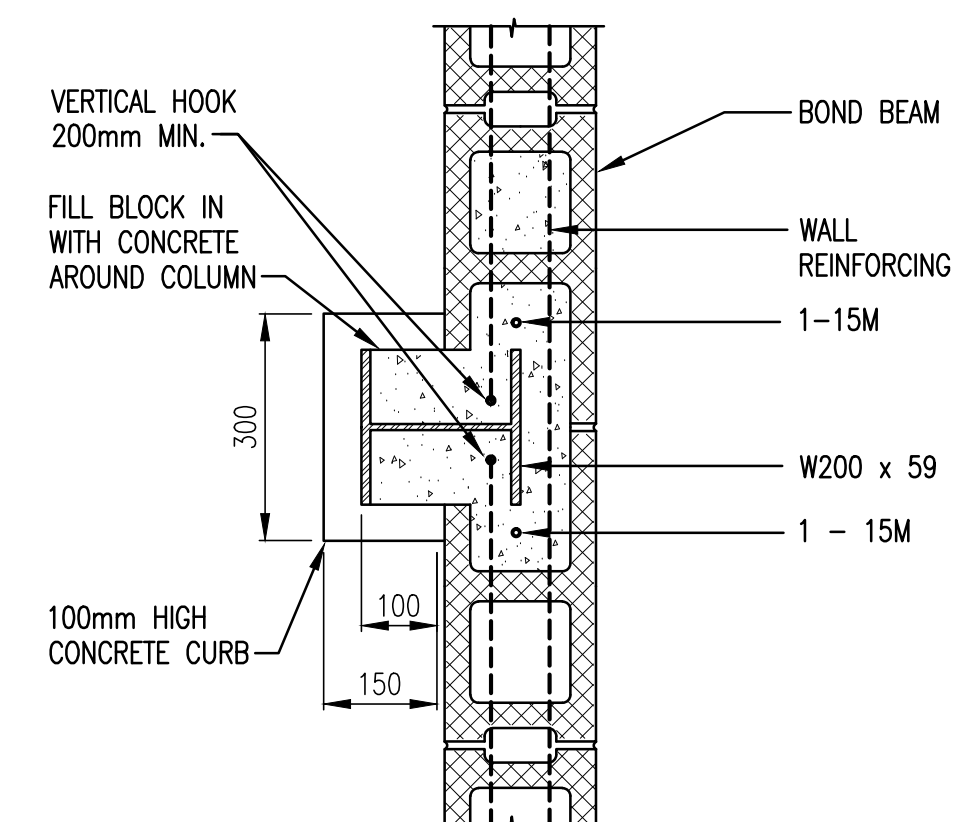
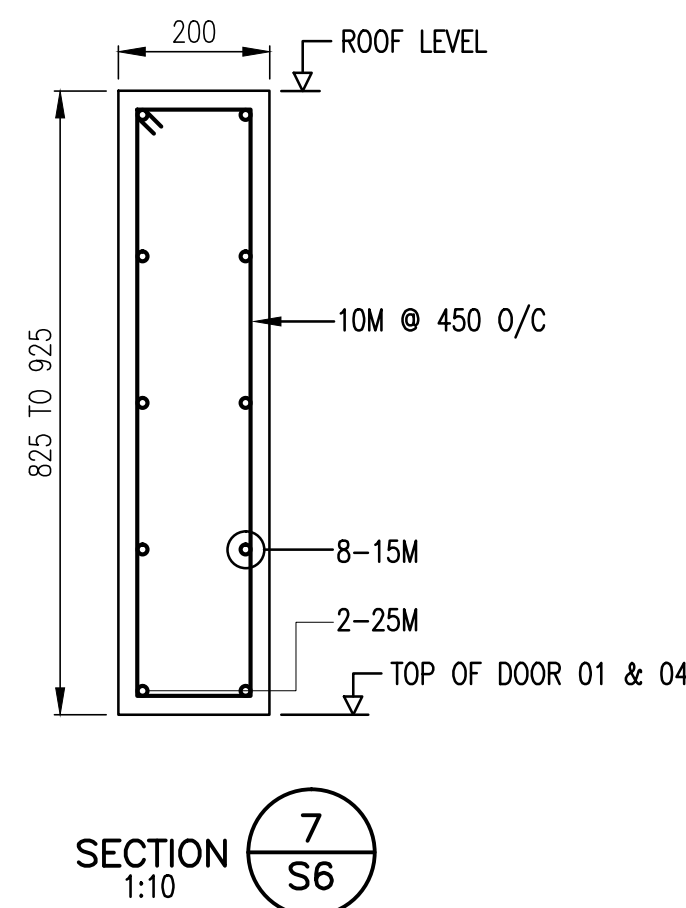
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DRAWING No. 179.5.1

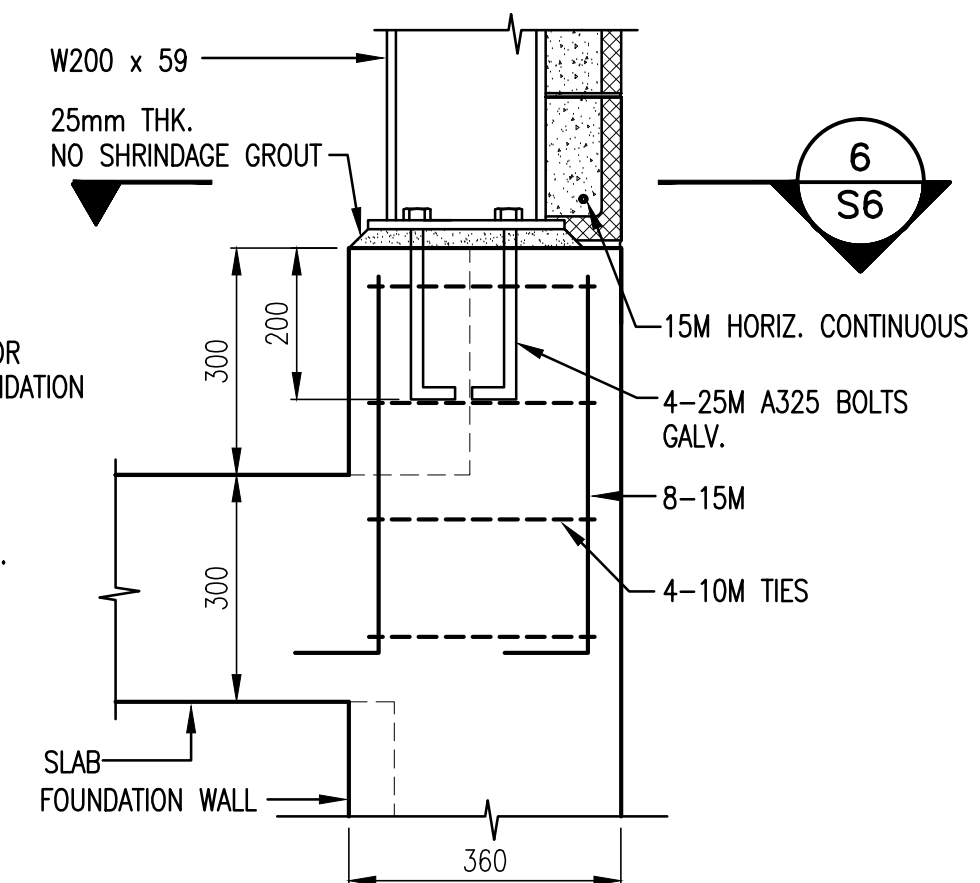
SHEET No. S5 ISSUE D



ROOF PLAN
1:50

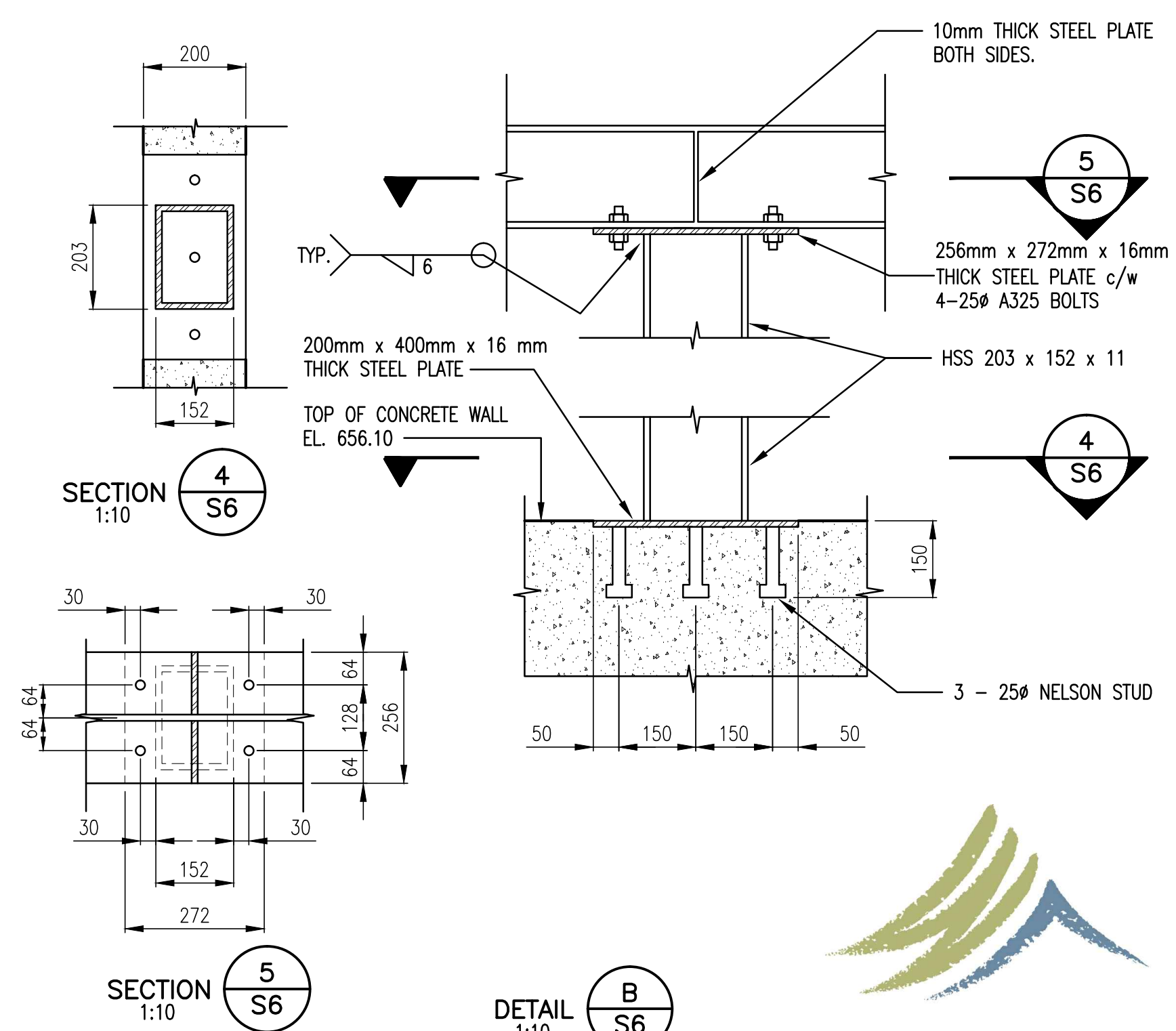


SECTION 1:10 $\left(\frac{6}{S6} \right)$



DETAIL
1:10

A
S6



DETAIL 1:10

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DESIGNED MR
DRAWN KS
CHECKED MR



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RESORT MUNICIPALITY OF WHISTLER
RAINBOW PARK PUMP STATION
STRUCTURAL - ROOF PLAN

SCALE: AS SHOWN

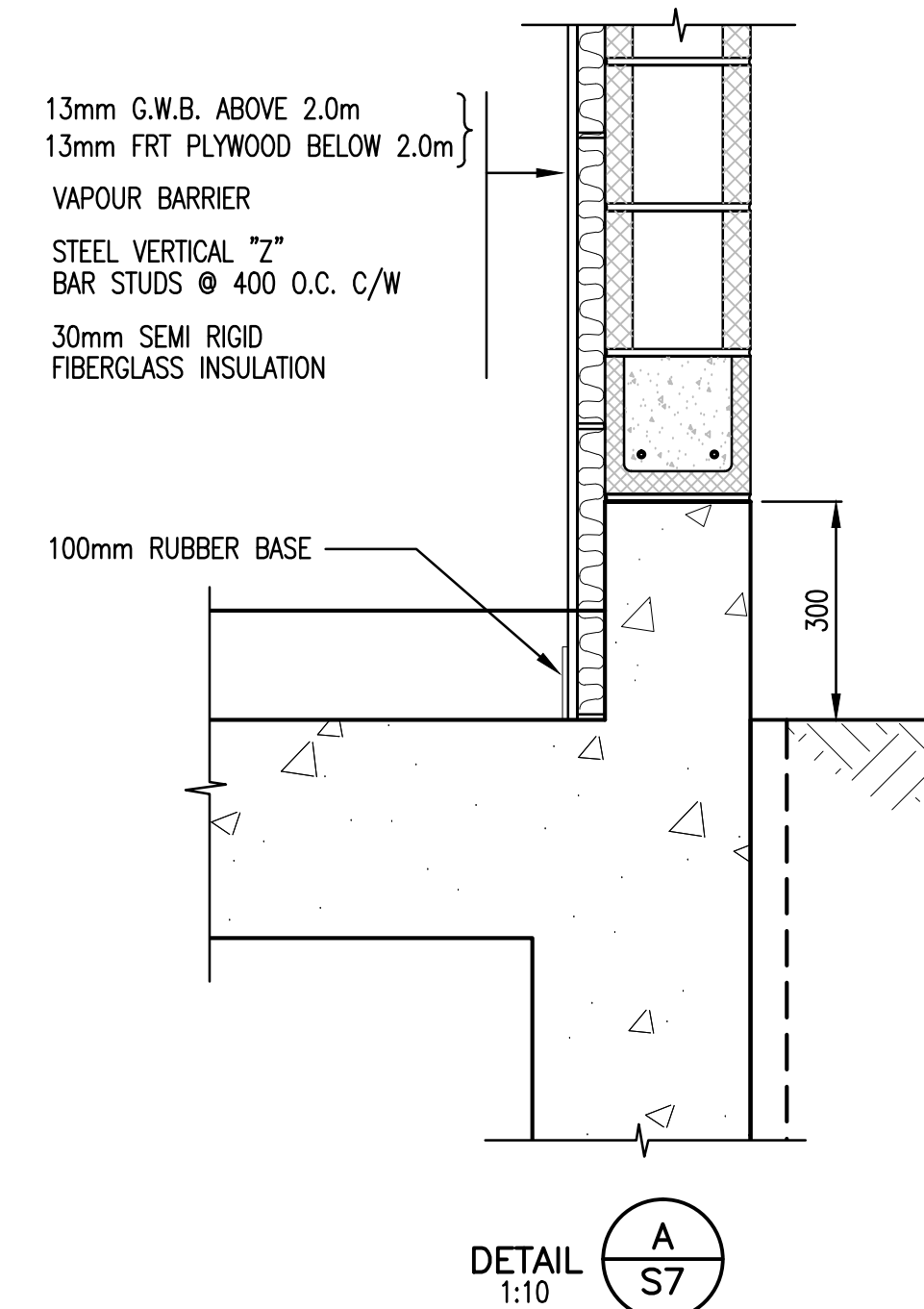
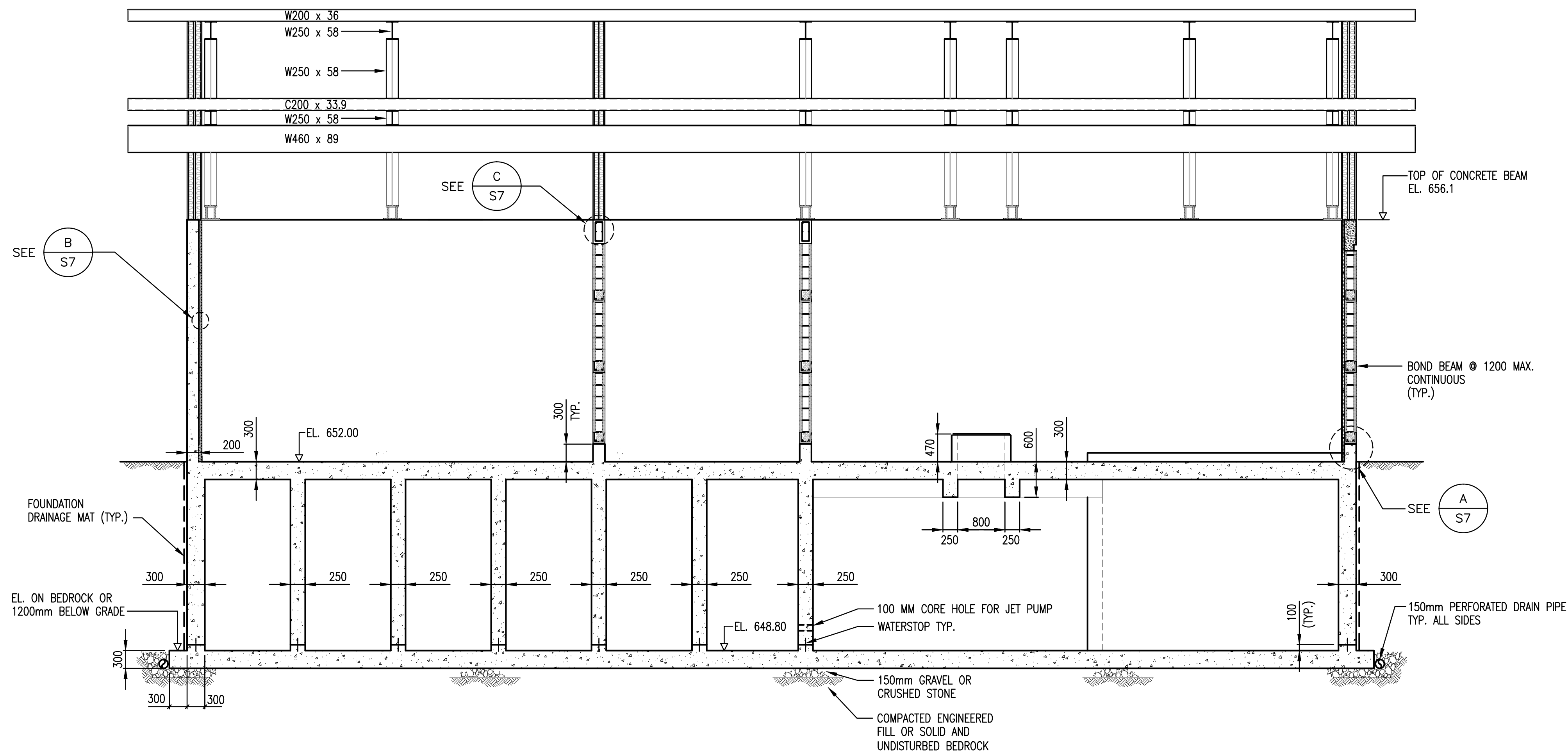
DRAWING No. 179.5.1

SHEET No.	S6	ISSUE C
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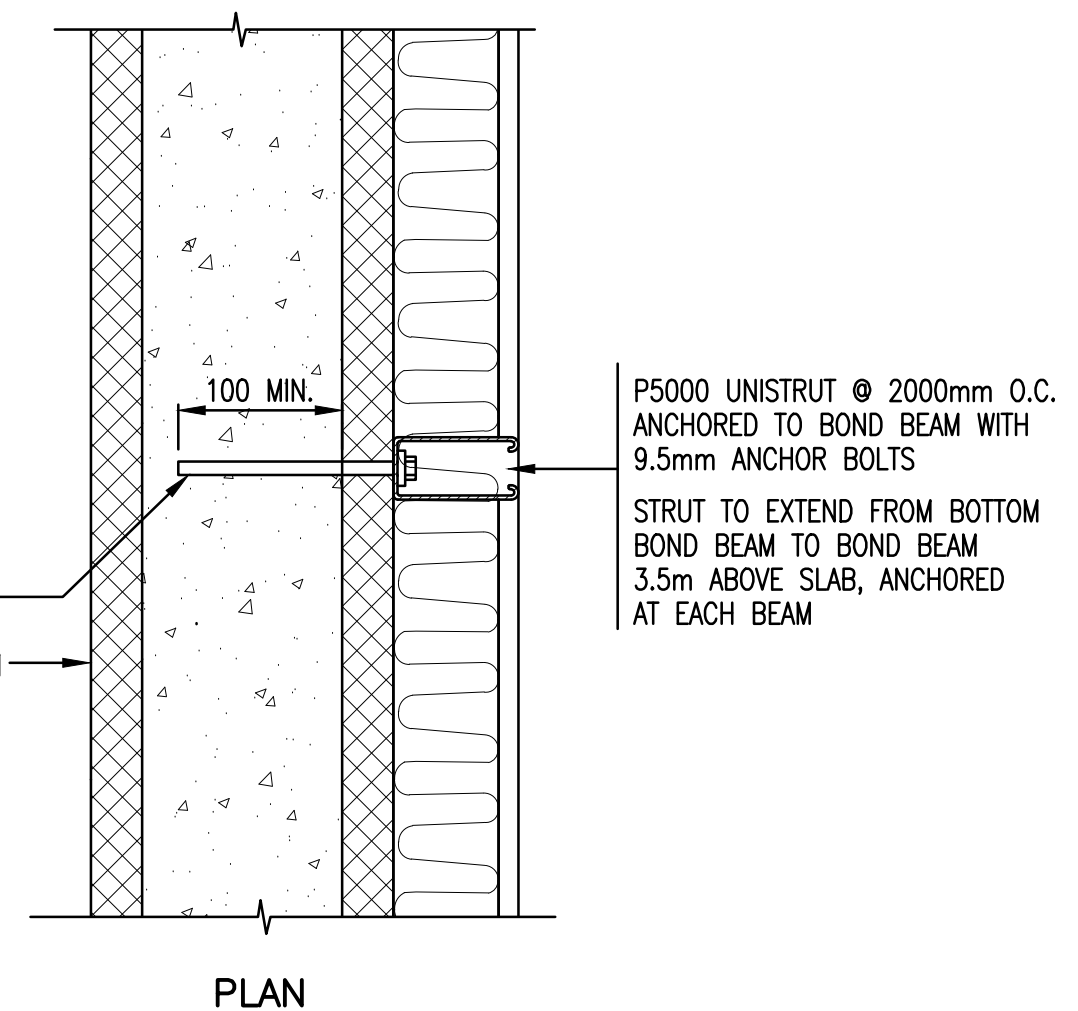


WHISTLER

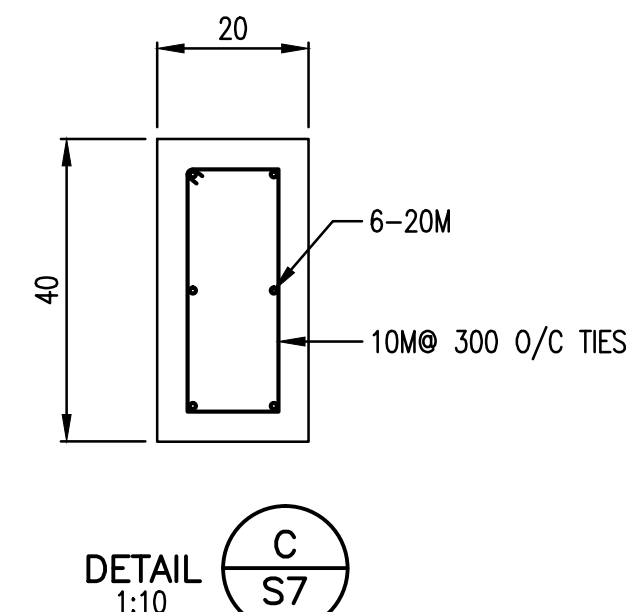
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EXTERIOR WALL DETAIL TYP.)

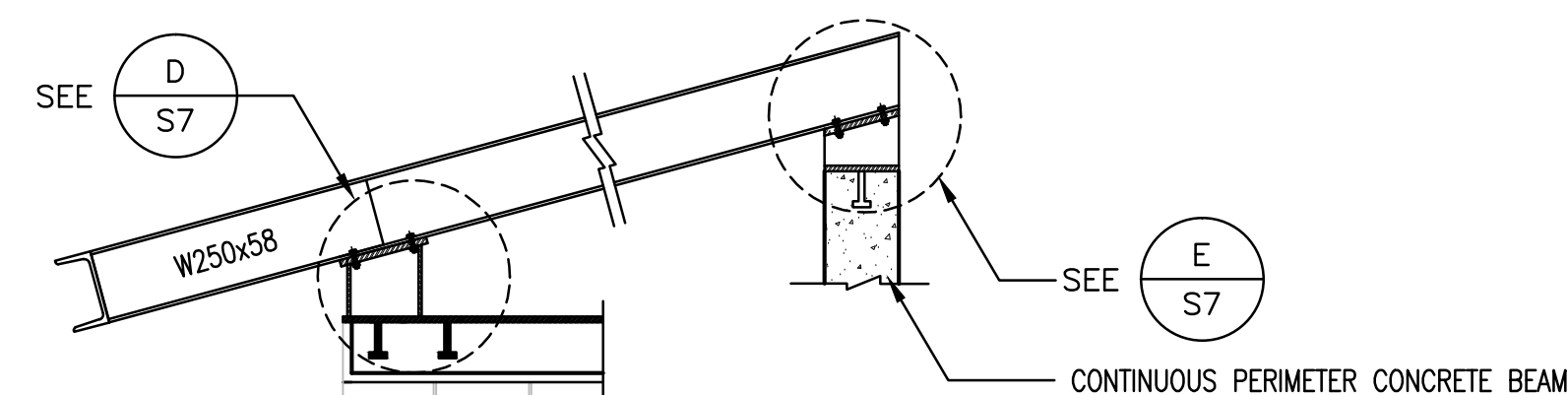


METAL FRAMING DETAIL

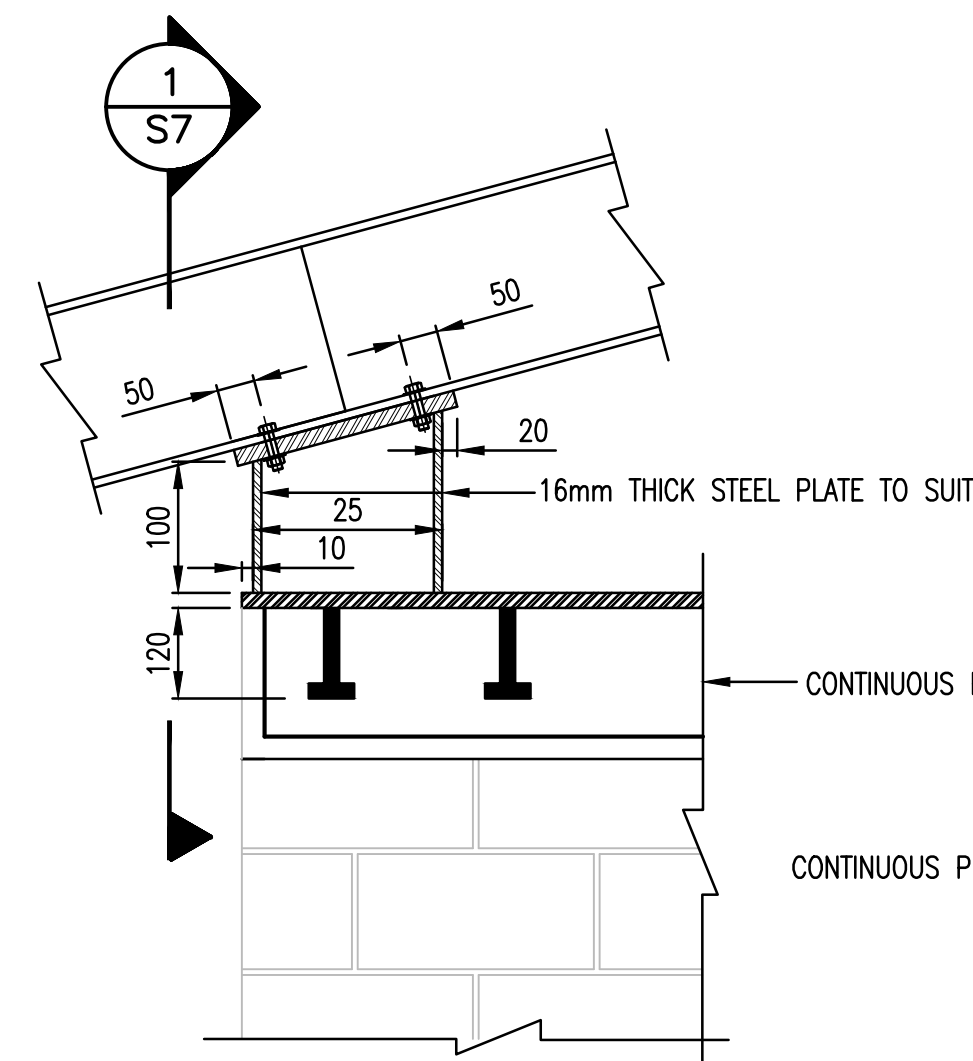


CONCRETE BEAM DETAIL

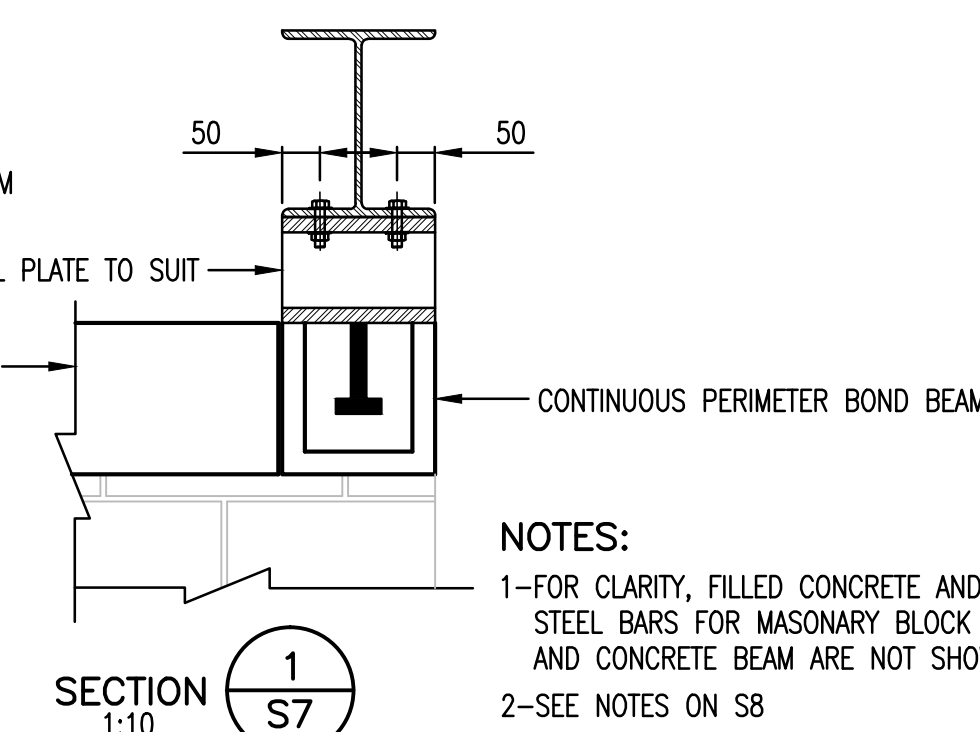
SECTION 1/S4, 1/S5, 1/S6 at 1:50 scale.



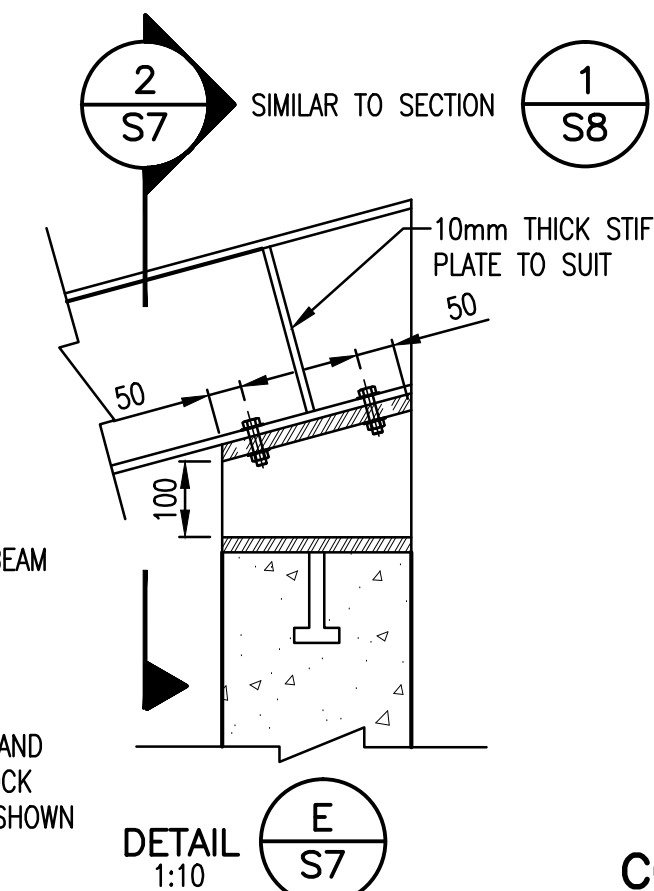
SECTION 8/S6 at 1:25 scale.



DETAIL D/S7 at 1:10 scale.

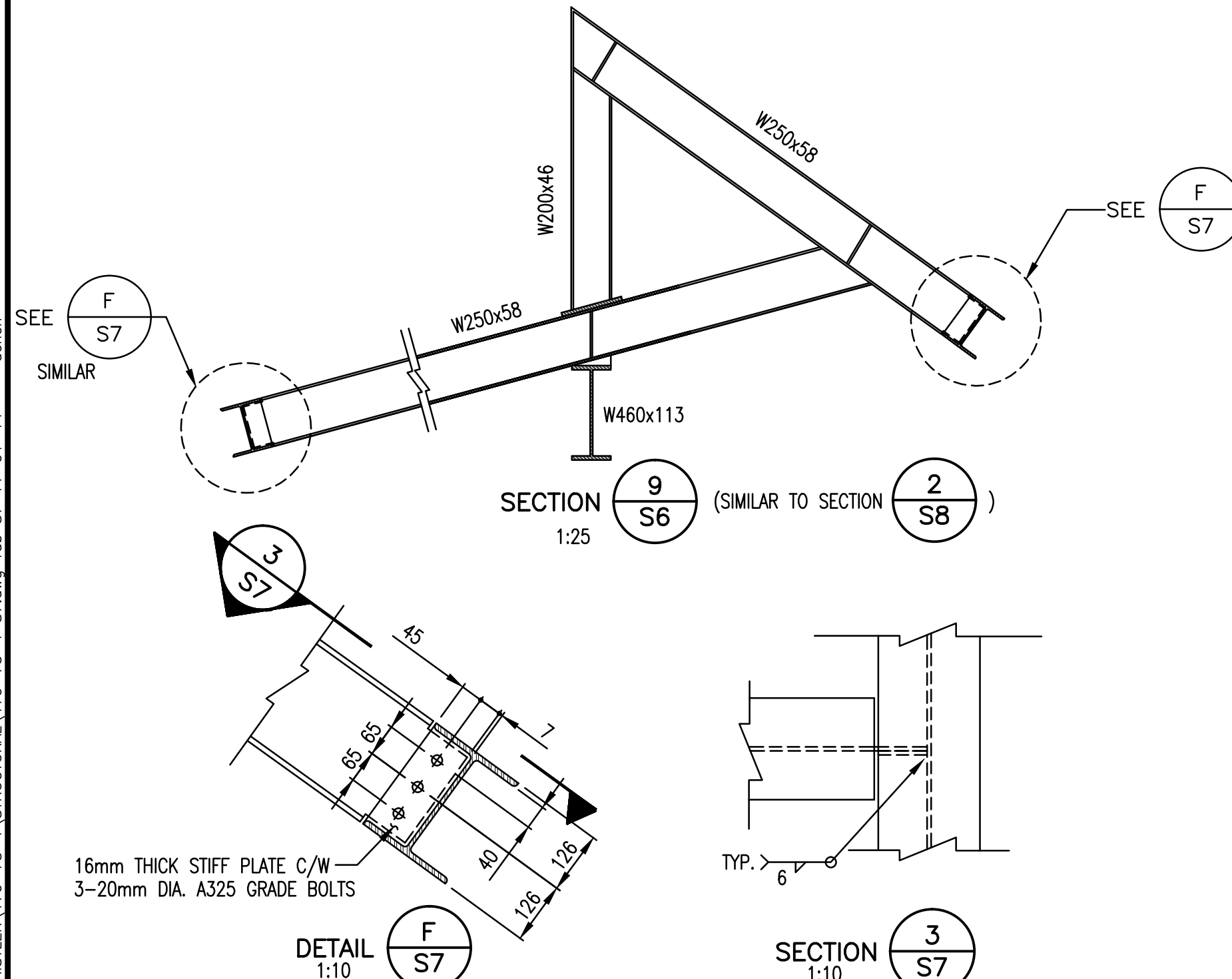


SECTION 1/S7 at 1:10 scale.



DETAIL E/S7 at 1:10 scale.

NOTES:
1-FOR CLARITY, FILLED CONCRETE AND STEEL BARS FOR MASONRY BLOCK AND CONCRETE BEAM ARE NOT SHOWN
2-SEE NOTES ON S8



DETAIL F/S7 at 1:10 scale.

SECTION 3/S7 at 1:10 scale.

FILE: P:\Records\WHISTLER\179-75-1\STRUCTURAL\179-75-1 S7.dwg Tab: S7 11-01-14 dchen

PLOT: FULL 1:1 HALF 1:2

ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION
A	MAY12/08	KS	MR	MR	ISSUED FOR TENDER
B	JUL8/08	KS	MR	MR	ISSUED FOR CONSTRUCTION
C	DEC15/09	AS	WB	WB	RECORD DRAWING

ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION
A	MAY12/08	KS	MR	MR	ISSUED FOR TENDER
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C	DEC15/09	AS	WB	WB	RECORD DRAWING

DESIGNED	MR
DRAWN	KS
CHECKED	MR

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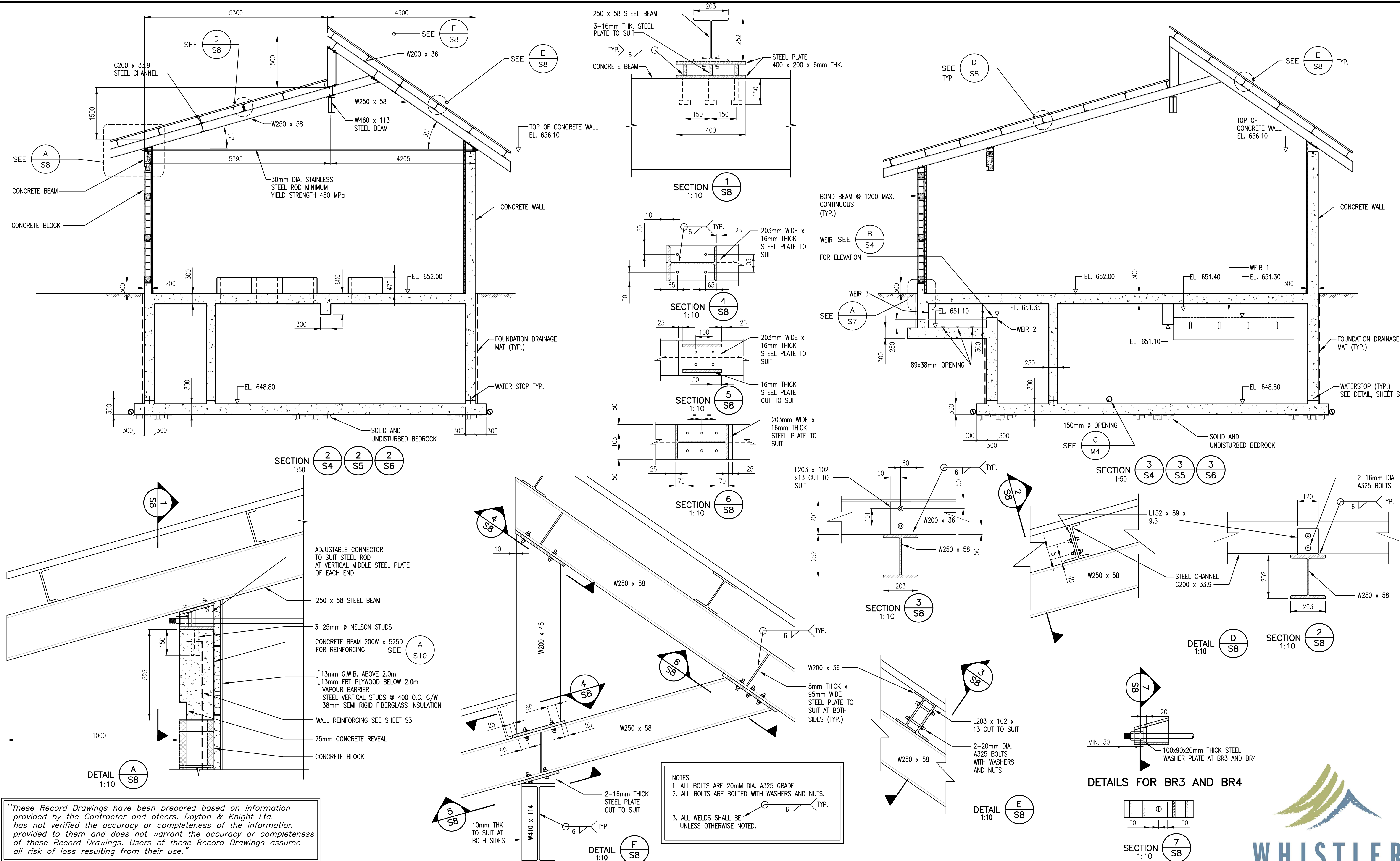
RESORT MUNICIPALITY OF WHISTLER
RAINBOW PARK PUMP STATION
STRUCTURAL - SECTION - DETAILS

SCALE: AS SHOWN
DRAWING No. 179.5.1
SHEET No. S7
ISSUE C



WHISTLER

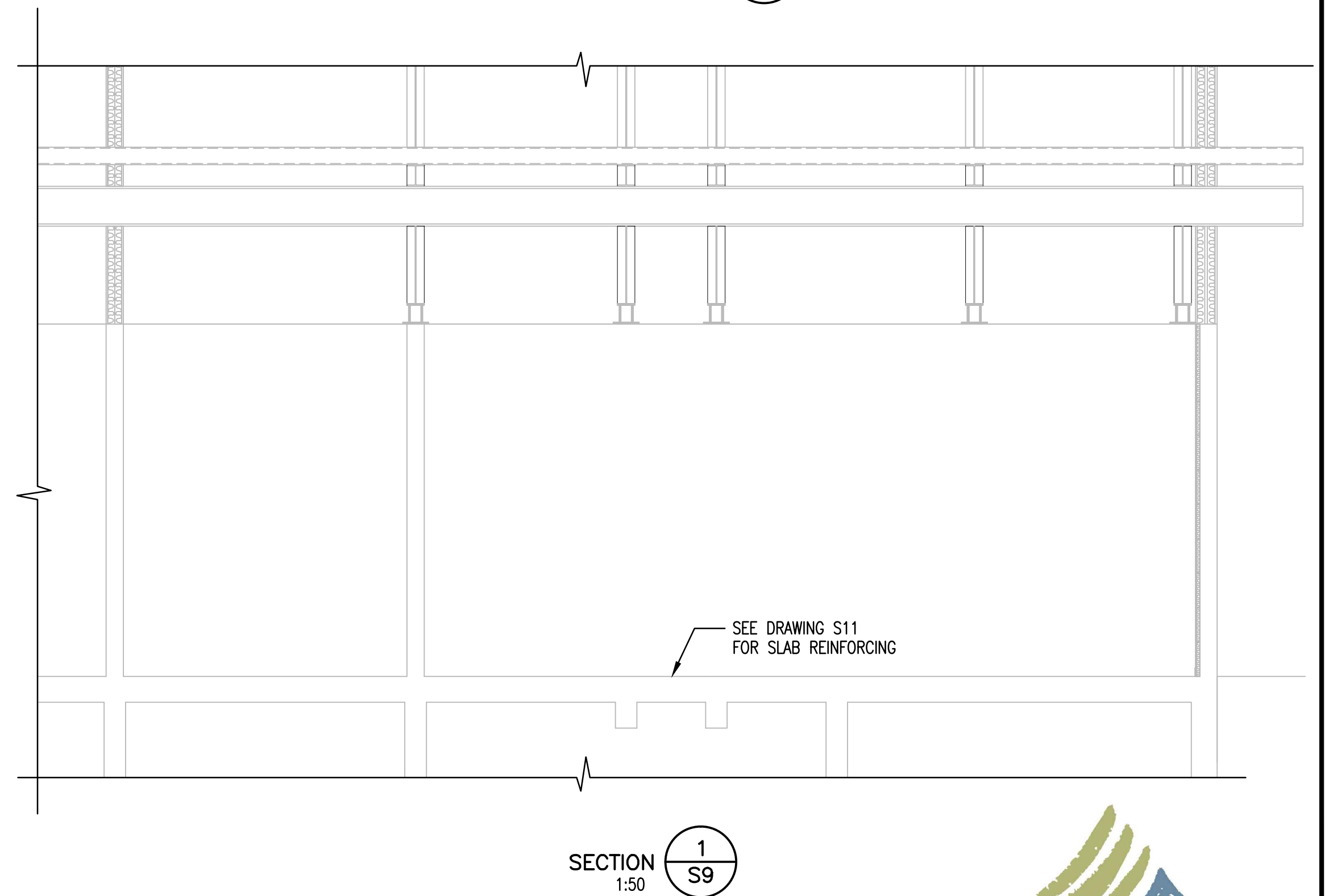
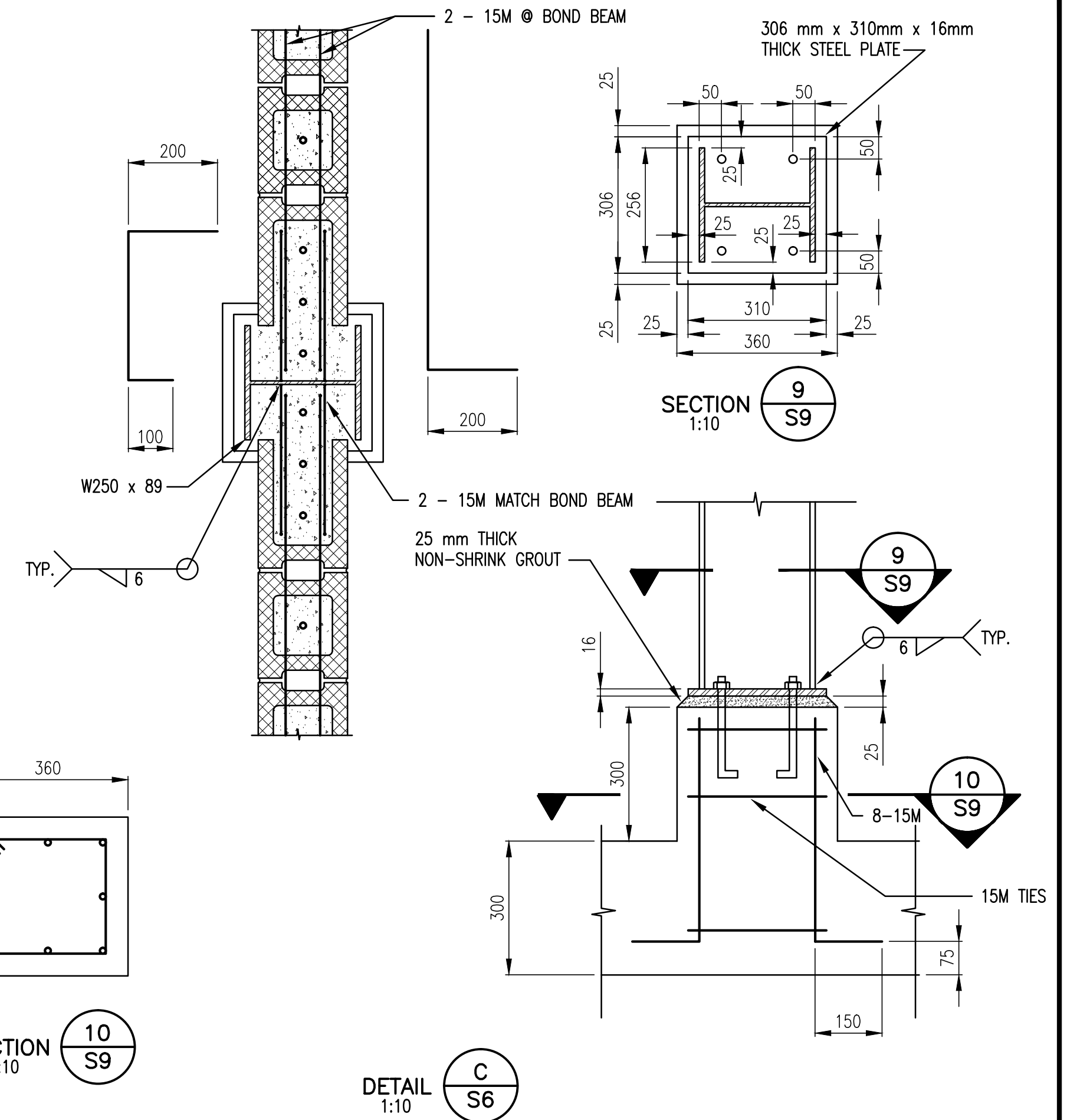
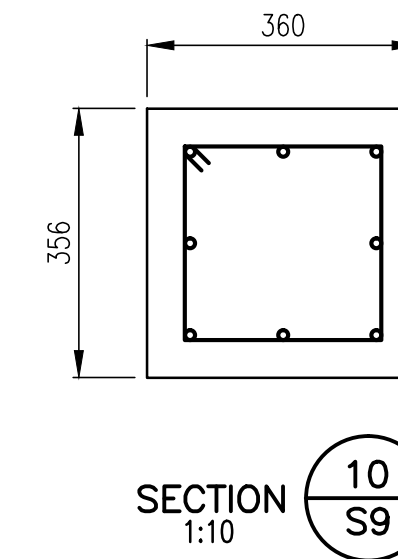
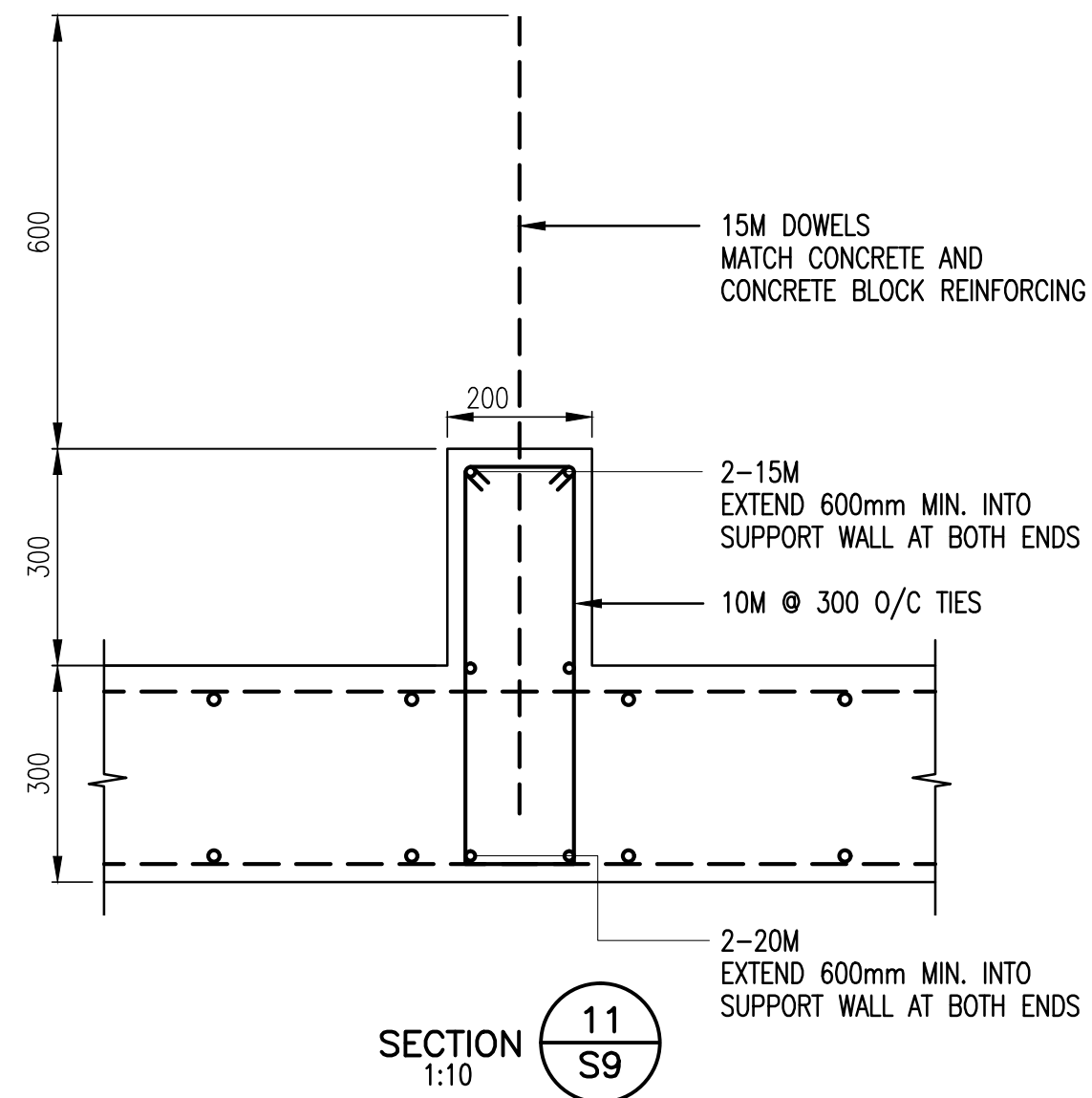
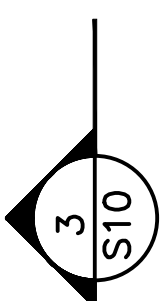
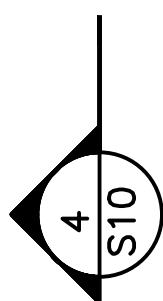
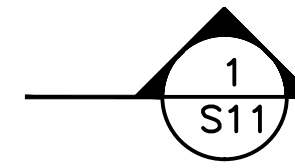
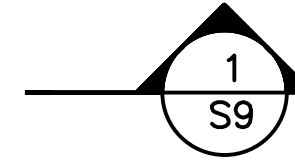
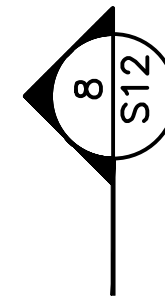
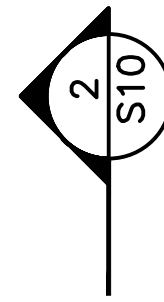
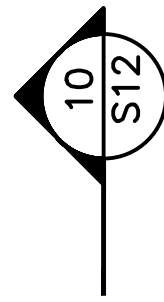
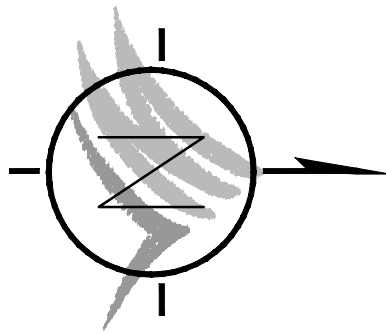
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LOT: FULL 1:1 HALF 1:2																						
AutoCAD DRAWING	REVISIONS	ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION	ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION	DESIGNED	MR		Dayton & Knight Ltd. CONSULTING ENGINEERS #210-880 HARBOURSIDE DR., NORTH VANCOUVER, B.C. V7P 3S1 TEL.: (604) 990-4800 FAX: (604) 990-4805 www.dayton-knight.com	RESORT MUNICIPALITY OF WHISTLER RAINBOW PARK PUMP STATION STRUCTURAL – SECTIONS – DETAIL	SCALE: AS SHOWN			
		A	MAY12/08	KS	MR	MR	ISSUED FOR TENDER							DRAWN	KS				DRAWING No. 179.5.1			
		B	JUL8/08	KS	MR	MR	ISSUED FOR CONSTRUCTION							CHECKED	MR				SHEET No.	S8	ISSUE	C
		C	DEC15/09	AS	WB	WB	RECORD DRAWING															

FILE: P:\Records\WHISTLER\179-75-1\STRUCTURAL\179-75-1_S9.dwg Tab: S9 11-01-14 dchen



WHISTLER

- NOTES :
1. TYPICAL SLAB REINFORCING
15M @ 300 O/C TOP & BOTTOM.
 2. SEE ALSO SHEET S2.
 3. DESIGN LIVE LOAD 3.6 KPa

REINFORCING – FLOOR PLAN @ EL. 652.00
1:50

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A	MAY12/08	KS	MR	MR	ISSUED FOR TENDER						
B	JUL8/08	KS	MR	MR	ISSUED FOR CONSTRUCTION						
C	DEC15/09	AS	WB	WB	RECORD DRAWING						

DESIGNED MR
DRAWN KS
CHECKED MR

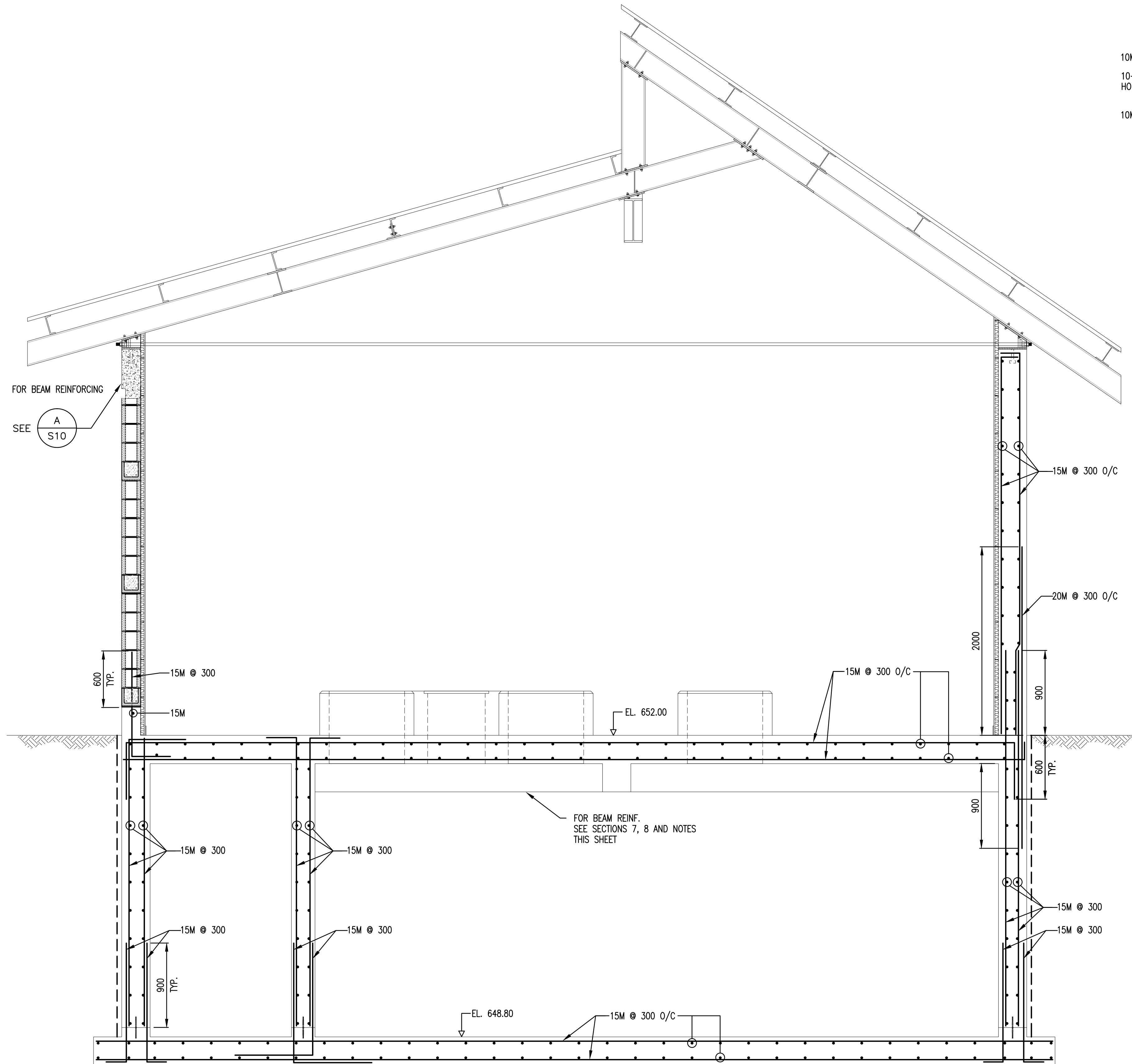


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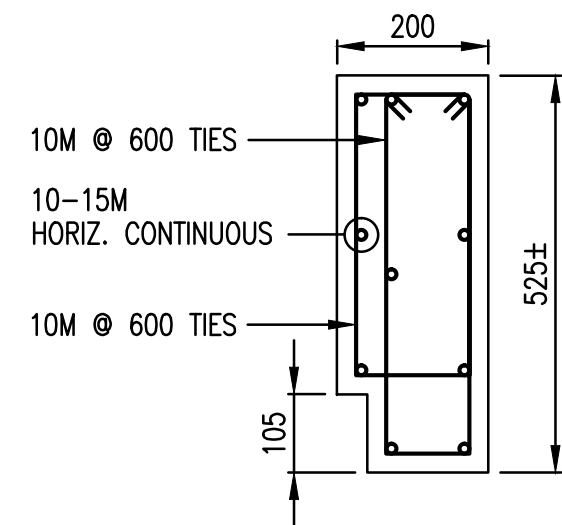
RESORT MUNICIPALITY OF WHISTLER
RAINBOW PARK PUMP STATION
REINFORCING – PLAN – SECTION

SCALE: AS SHOWN
DRAWING No. 179.5.1
SHEET No. **S9** ISSUE **C**

FILE: P:\Records\WHISTLER\179-75-1\STRUCTURAL\179-75-1 S10.dwg Tab S10 11-01-14 dehen

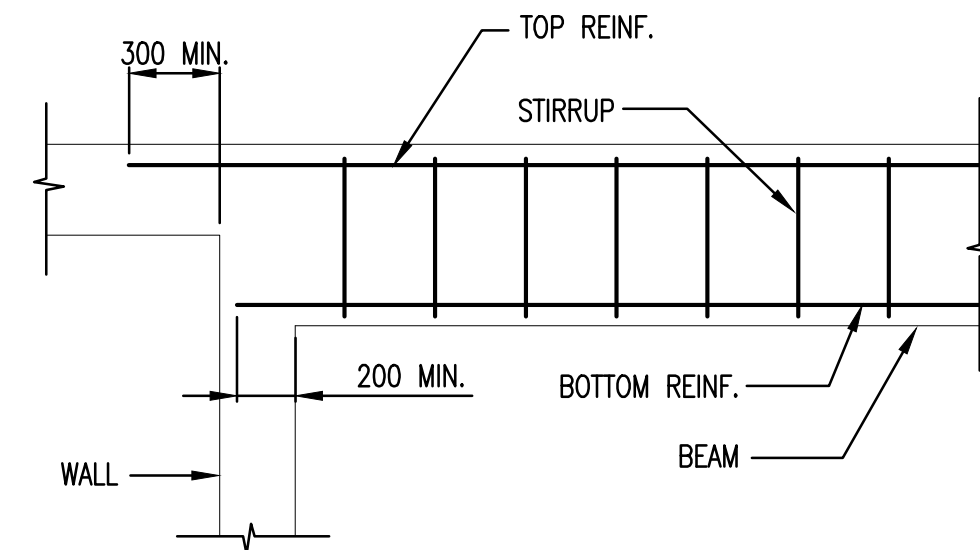


SECTION 2
1:25

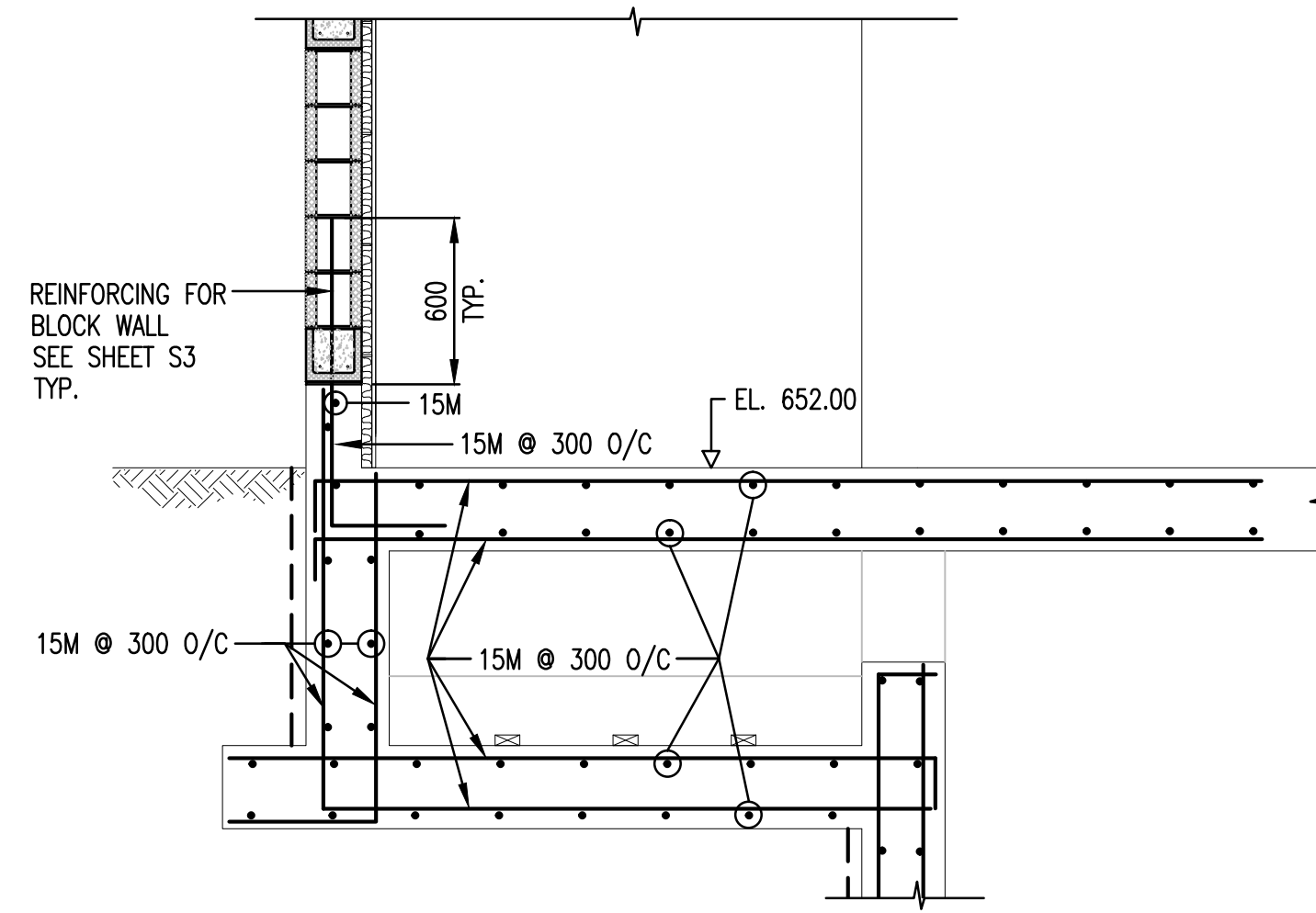


BEAM REINFORCING

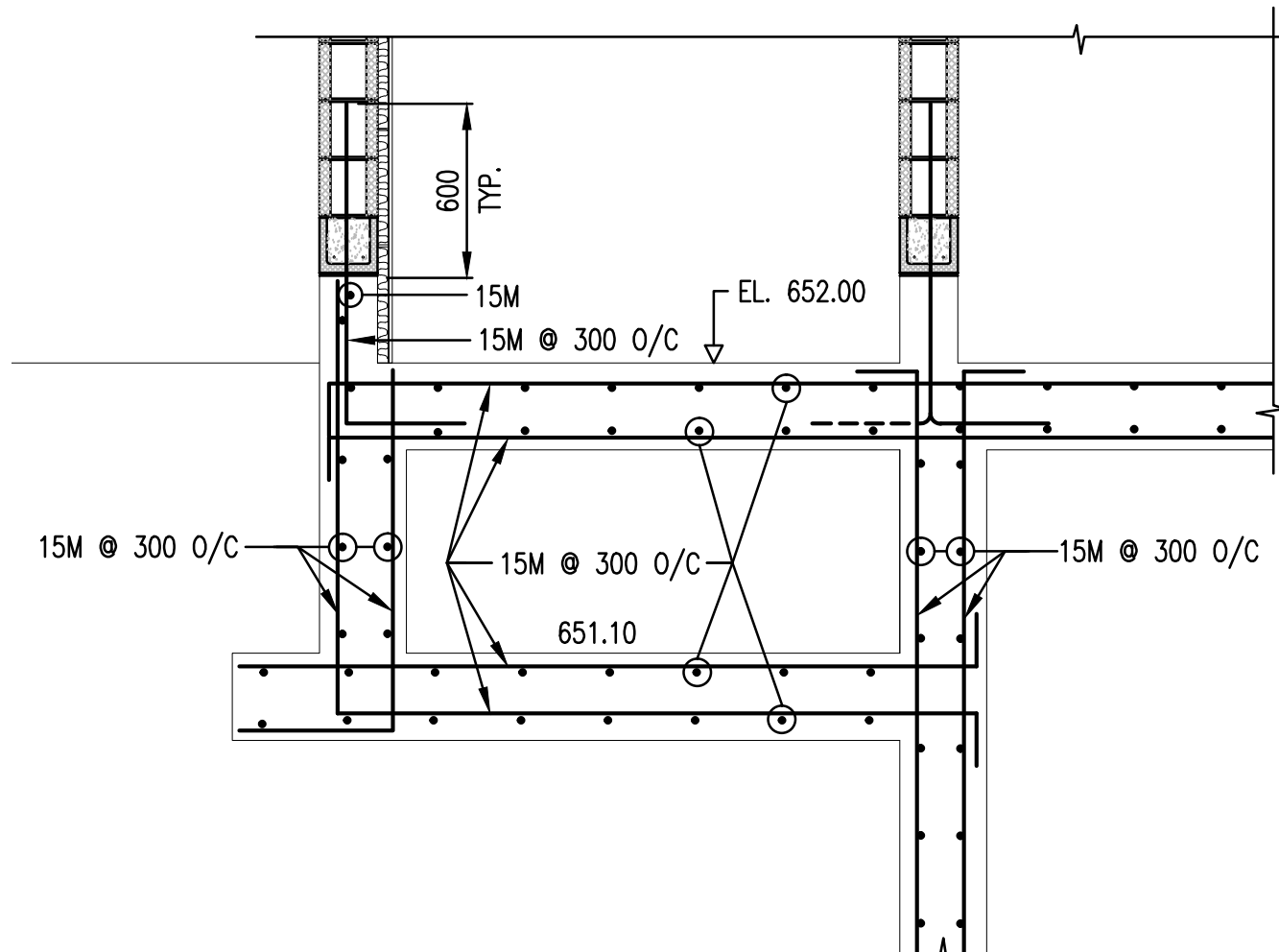
DETAIL A
1:10 S10



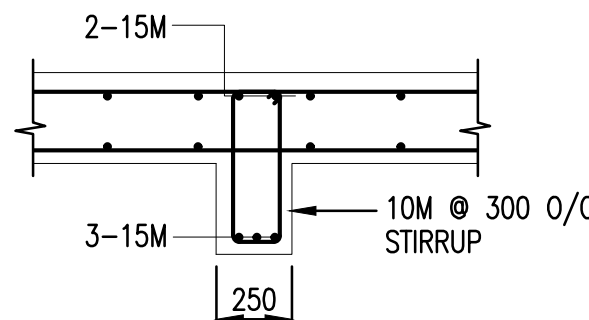
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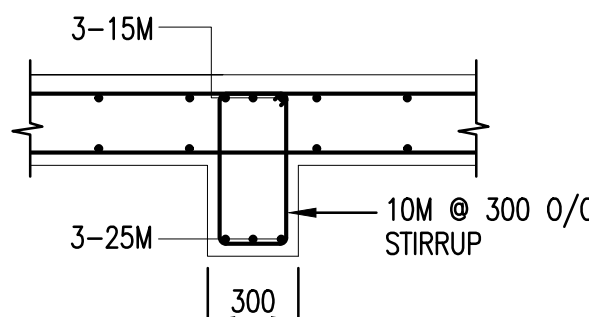
SECTION 3
1:25 S9



SECTION 4
1:25 S9



SECTION 5
1:25 S9



SECTION 7
1:25 S9

NOTES:

1. LIVE LOAD: 3.6 Kpa
2. BEAM: 250 WIDE x 600 DEEP REINF. WITH 3-15M BOTTOM & 2-15M TOP 10M @ 300 O/C STIRRUP
3. BEAM: 300 WIDE x 600 DEEP REINF. WITH 3-20M BOTTOM & 3-15M TOP 10M @ 300 O/C STIRRUP
4. ALL BOTTOM REINF. SHOULD SIT ON WALL OR BEAM SUPPORT MIN. 200mm
5. ALL TOP REINF. SHOULD SIT ON WALL OR BEAM SUPPORT AND EXTEND MIN. 300mm INTO CONCRETE SLAB

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B	JUL8/08	KS	MR	MR	ISSUED FOR CONSTRUCTION						
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RESORT MUNICIPALITY OF WHISTLER
RAINBOW PARK PUMP STATION
REINFORCING - SECTIONS

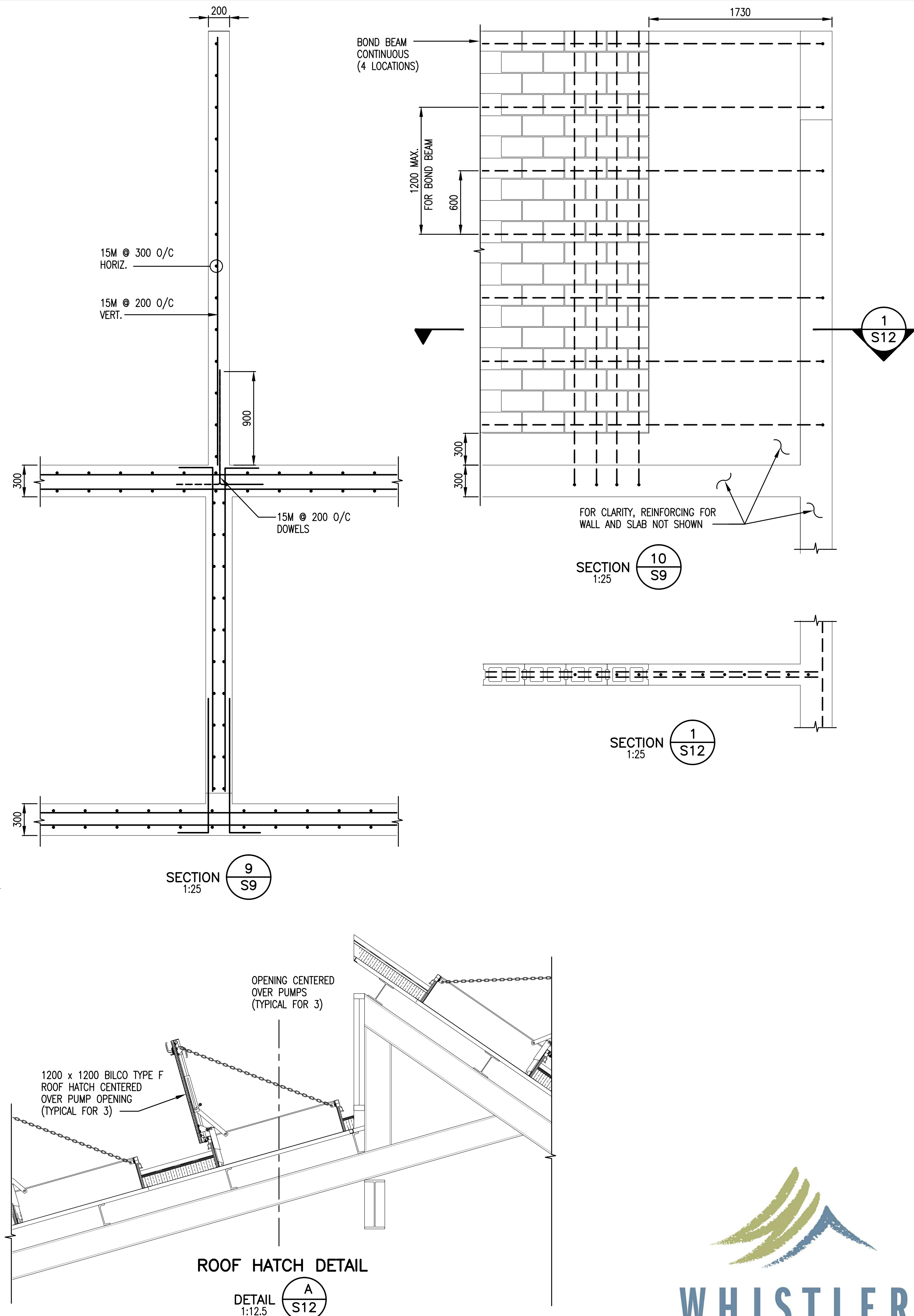
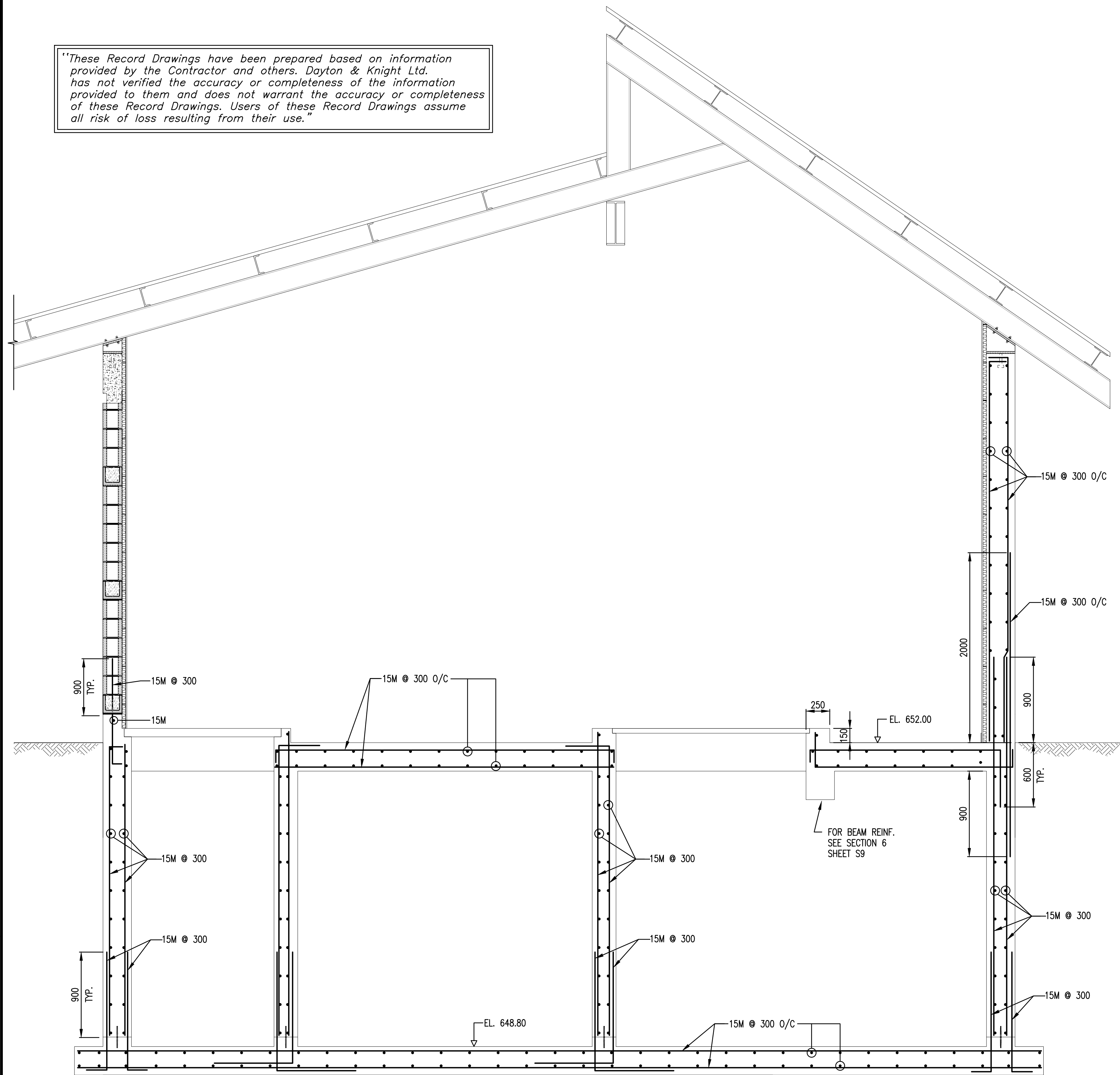
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DRAWING No. 179.5.1
SHEET No. S10 ISSUE C



WHISTLER

PLOT: FULL 1:1												HALF 1:2												WHISTLER											
AutoCAD DRAWING	REVISIONS	ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION	ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION	DESIGNED	MR	 Dayton & Knight Ltd. CONSULTING ENGINEERS #210-889 HARBOURSIDE DR., NORTH VANCOUVER, B.C. V7P 3S1 TEL.: (604) 990-4800 FAX: (604) 990-4805 www.dayton-knight.com	RESORT MUNICIPALITY OF WHISTLER RAINBOW PARK PUMP STATION REINFORCING – SECTION				SCALE: AS SHOWN														
		A	MAY12/08	KS	MR	MR	ISSUED FOR TENDER							DRAWING No. 179.5.1																					
		B	JUL8/08	KS	MR	MR	 ISSUED FOR CONSTRUCTION							SHEET No.							S11	ISSUE		C											
		C	DEC15/09	AS	WB	WB	RECORD DRAWING																												

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PLOT: FULL 1:1 HALF 1:2

AutoCAD DRAWING	REVISIONS
ISSUE	DATE
DRAWN	CHK'D
APP'D	

ISSUE	DATE	DRAWN	CHK'D	APP'D
A	MAY12/08	KS	MR	MR
B	JUN23/08	KS	MR	MR
C	DEC15/09	AS	WB	WB

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RECORD DRAWING

ISSUE	DATE	DRAWN	CHK'D	APP'D

DESCRIPTION

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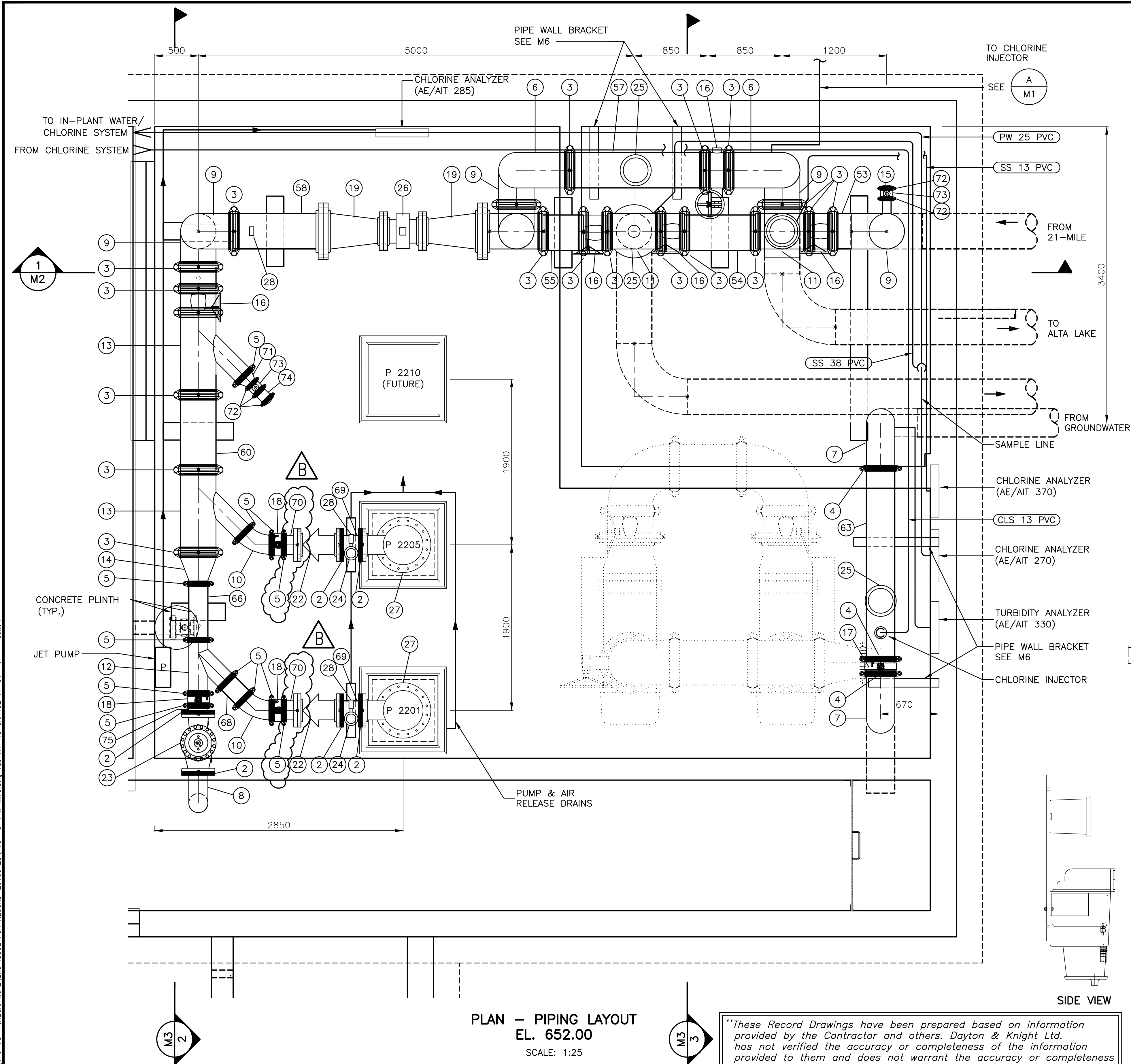
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RESORT MUNICIPALITY OF WHISTLER
RAINBOW PARK PUMP STATION
REINFORCING - SECTION

SCALE: AS SHOWN
DRAWING No. 179.5.1
SHEET No. S12 ISSUE C

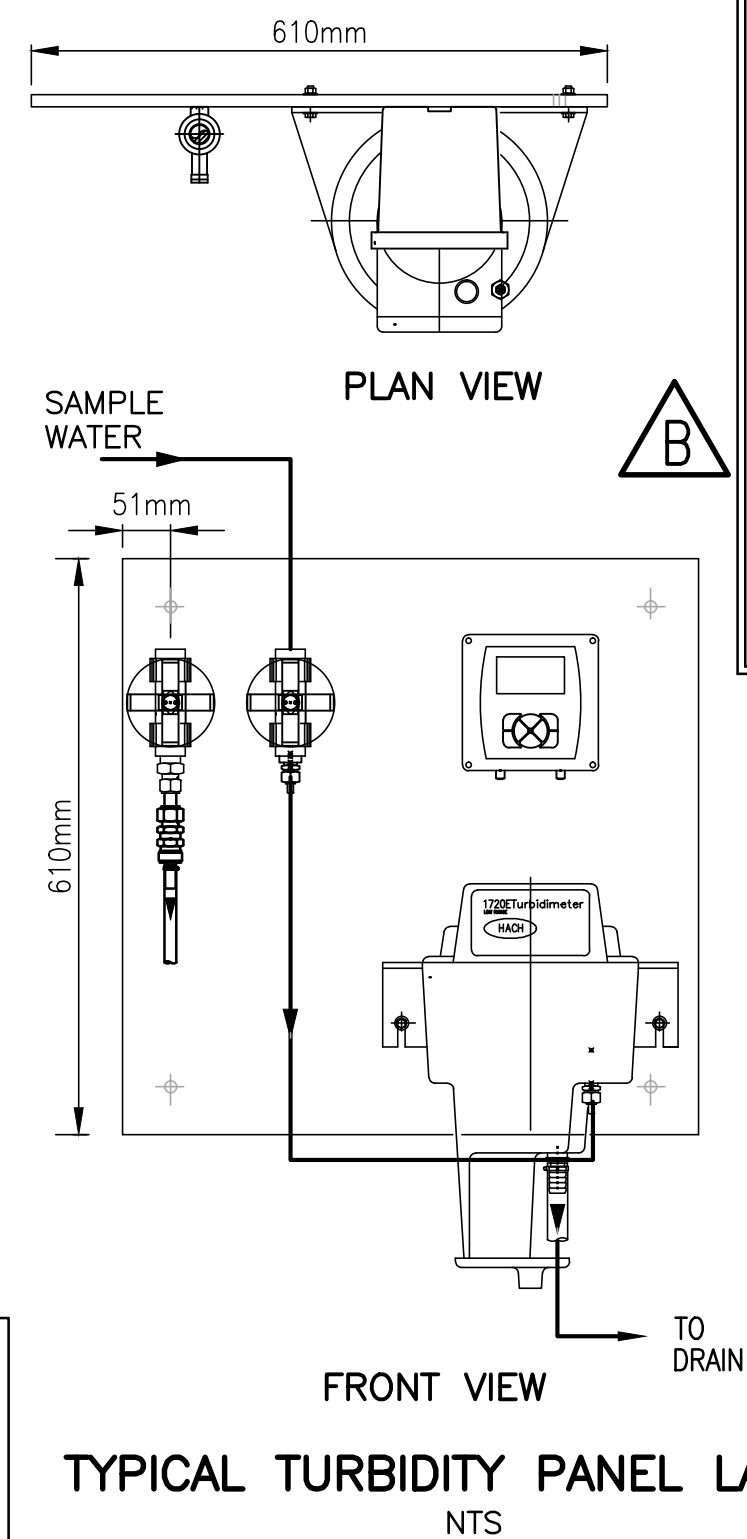


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PLAN - PIPING LAYOUT
EL. 652.00
SCALE: 1:25

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BILL OF MAJOR MATERIALS

ITEM	DESCRIPTION	QUANTITY
1	300 VIC. NO. 741 FLANGE ADAPTER	2
2	200 VIC. NO. 743 FLANGE ADAPTER	2
3	400 VIC. NO. W89 RIGID COUPLING	32
4	300 VIC. NO. 89 RIGID COUPLING	6
5	200 VIC. NO. 89 RIGID COUPLING	2
6	400 VIC. NO. W100 LONG RADIUS ELBOW	2
7	300 VIC. NO. 100 LONG RADIUS ELBOW	2
8	200 VIC. NO. 100 SHORT RADIUS ELBOW	1
9	400 VIC. NO. W10 SHORT RADIUS ELBOW	4
10	200 VIC. NO. 110 LONG RADIUS 45° ELBOW	2
11	400 VIC. NO. W20 TEE	4
12	200 VIC. NO. 30 45° LATERAL	1
13	400 x 400 x 200 VIC. NO. W30-R 45° REDUCING LATERAL	2
14	400 x 200 VIC. NO. W50 CONCENTRIC REDUCER	1
15	100 VIC. NO. 60 CAP	1
16	400 VIC. W706 BUTTERFLY VALVE	7
17	300 VIC-300 BUTTERFLY VALVE	2
18	200 VIC-300 BUTTERFLY VALVE	3
19	400 x 250 CONCENTRIC REDUCER, FE, 8" MAX. RED.	2
20	300 x 250 CONCENTRIC REDUCER, FE, 8" MAX. RED.	2
21	400 CHECK VALVE, TILTED DISC	1
22	200 CHECK VALVE, TILTED DISC	2
23	200 PRESSURE RELIEF VALVE	1
24	15 AUTO AIR RELEASE VALVE	2
25	50 COMBINATION AIR VALVE	3
26	250 FLOWMETER	3
27	200 HP DUTY PUMP	2
28	PRESSURE GAUGE/TRANSMITTER ASSEMBLY	3
29 TO 37	SPARES ITEMS NOT USED	2
38	CHLORINE STORAGE TANK	8
39	AIR BLOWER No. 1	1
40	AIR BLOWER No. 2	1
41	CHLORINE GENERATOR	1
42	BRINE TANK	1
43	CHLORINE PUMPS FOR SURFACE WATER	1
44	CHLORINE PUMPS FOR SURFACE WATER (FUTURE)	1
45	CHLORINE PUMPS FOR GROUND WATER	1
46	CHLORINE PUMPS FOR GROUND WATER (FUTURE)	1
47	EYEWASH	1
48	45 LITRE HOT WATER TANK	1
49	600 KW EMERGENCY GENERATOR (BY OTHERS)	1
50	400x400x250 VIC. No. 25 RED. TEE	1
51	250 VIC. No. 89 COUPLING	1
52	300 SHORT RADIUS ELBOW	1
53	400 SCH. 10S STAINLESS STEEL SPOOL, FL x GE, OAL AS REQUIRED	1
54	400 SCH. 10S STAINLESS STEEL SPOOL, GE x GE, OAL AS REQUIRED	1
55	400 SCH. 10S STAINLESS STEEL SPOOL, GE x GE, OAL AS REQUIRED	1
56	400 SCH. 10S STAINLESS STEEL SPOOL, GE x PE, OAL AS REQUIRED	1
57	400 SCH. 10S STAINLESS STEEL SPOOL, GE x GE, OAL AS REQUIRED	1
58	400 SCH. 10S STAINLESS STEEL SPOOL, FE x GE, OAL AS REQUIRED	1
59	400 SCH. 10S STAINLESS STEEL SPOOL, GE x GE, OAL AS REQUIRED	1
60	400 SCH. 10S STAINLESS STEEL SPOOL, GE x GE, OAL AS REQUIRED	1
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62	400 SCH. 10S STAINLESS STEEL SPOOL, GE x GE, OAL AS REQUIRED	1
63	300 SCH. 10S STAINLESS STEEL SPOOL, GE x GE, OAL AS REQUIRED	1
64	300 SCH. 10S STAINLESS STEEL SPOOL, GE x GE, OAL AS REQUIRED	1
65	300 SCH. 10S STAINLESS STEEL SPOOL, GE x PE, OAL AS REQUIRED	1
66	200 SCH. 10S STAINLESS STEEL SPOOL, GE x GE, OAL AS REQUIRED	1
67	200 SCH. 10S STAINLESS STEEL SPOOL, GE x PE, OAL AS REQUIRED	1
68	200 SCH. 10S STAINLESS STEEL SPOOL, GE x GE, OAL AS REQUIRED	1
69	200 SCH. 10S STAINLESS STEEL SPOOL, GE x GE, OAL AS REQUIRED	2
70	200 VIC. NO. 46 FLANGE ADAPTER NIPPLE	2
71	200 x 100 CONCENTRIC REDUCER, FE, 8" MAX. RED.	1
72	100 VIC. NO. 89 RIGID COUPLING	5
73	100 VIC-300 BUTTERFLY VALVE	2
74	MALE CAMLOCK	1
75	200 SCH. 10S STAINLESS STEEL SPOOL, GE x GE, OAL AS REQUIRED	1



WHISTLER

PLOT: FULL 1:1 HALF 1:2

ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION	ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION
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B	JUL8/08	KS	MM	MM	ISSUED FOR CONSTRUCTION						
C	DEC16/09	AS	WB	WB	RECORD DRAWING						

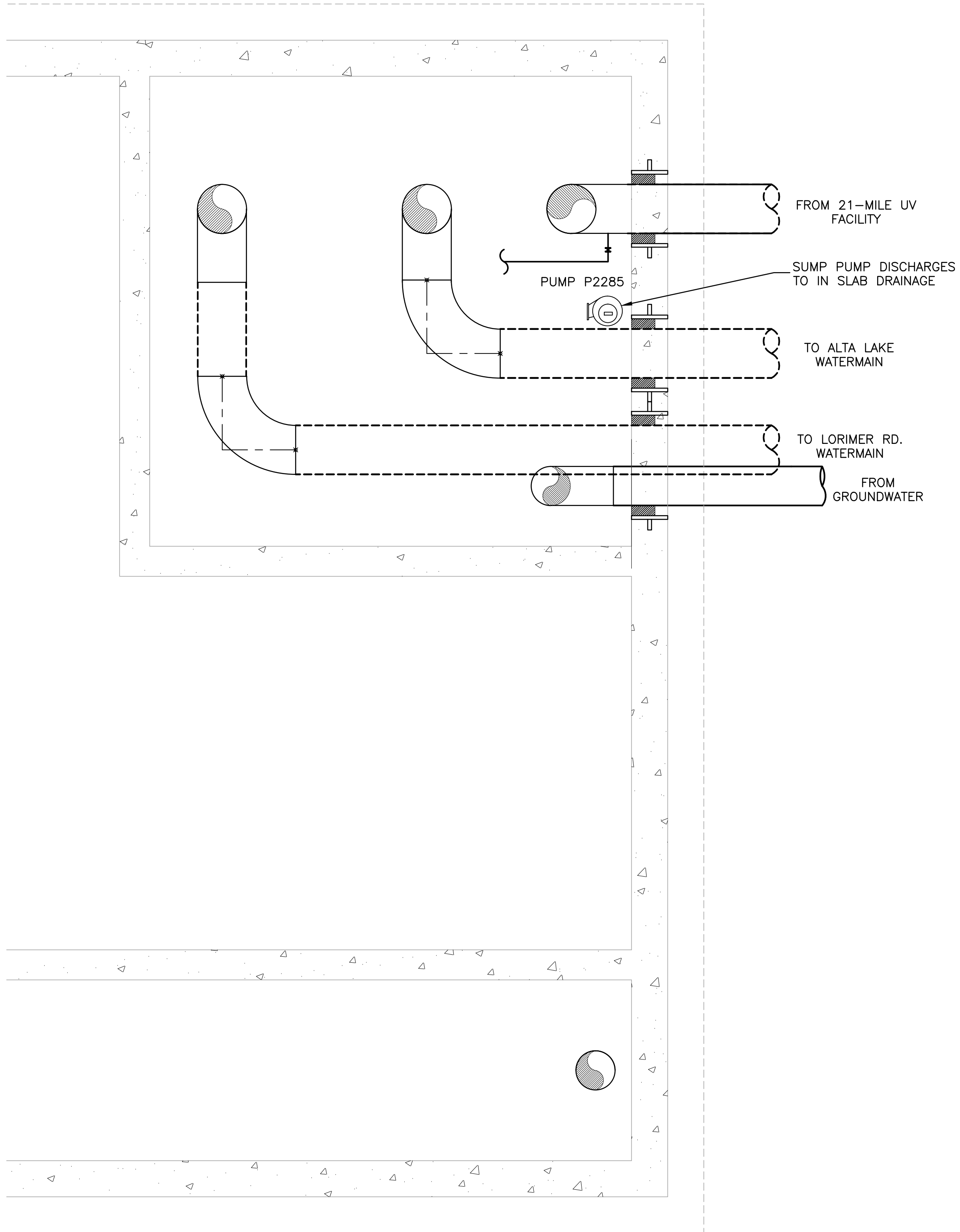
DESIGNED MM
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RESORT MUNICIPALITY OF WHISTLER
RAINBOW PARK PUMP STATION
MECHANICAL - PLAN - MECHANICAL ROOM

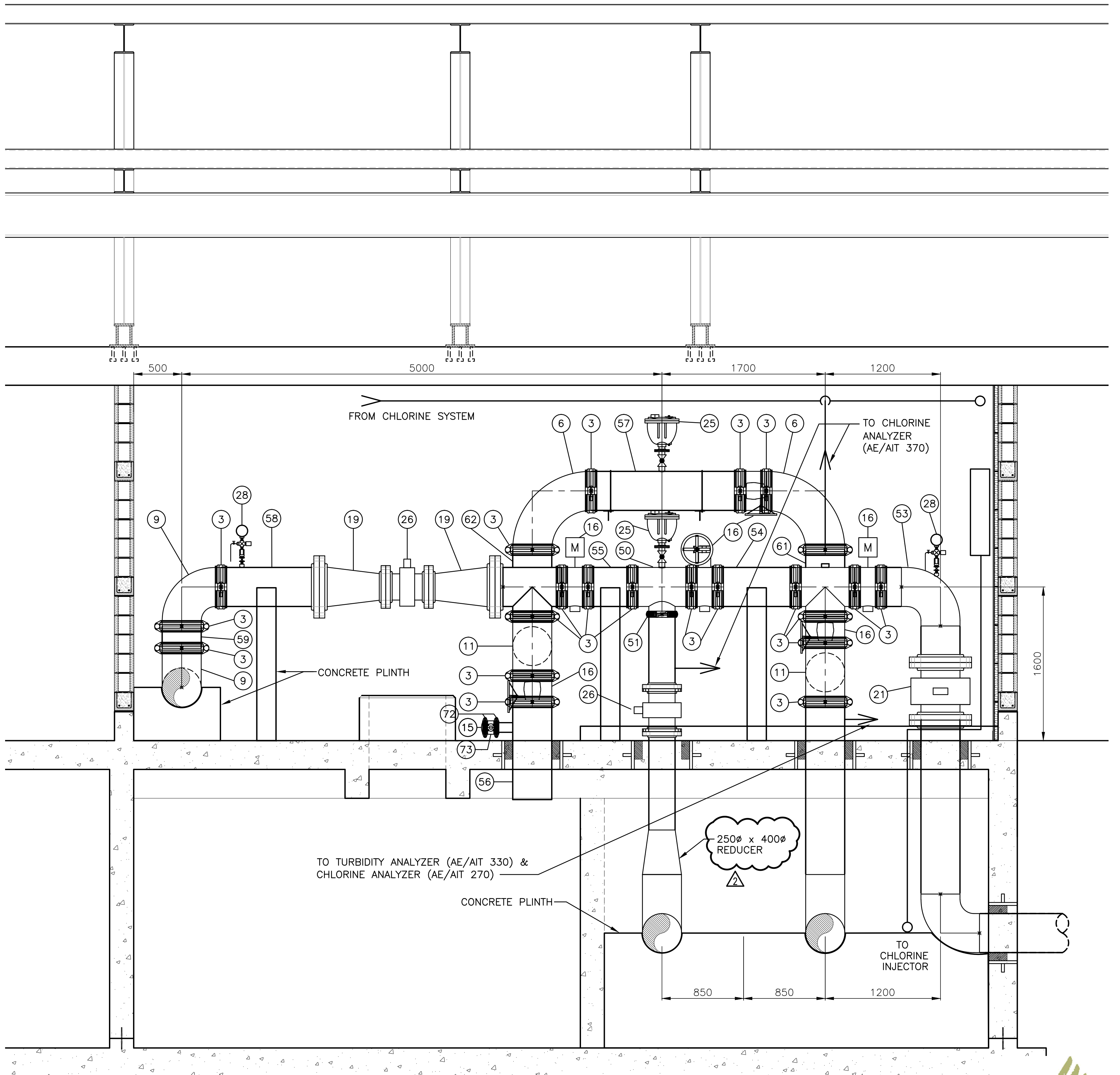
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SHEET No. **M1** ISSUE **C**

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PLAN – PIPING LAYOUT @ EL. 648.80
SCALE: 1:25

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SECTION 1
1:25
M1

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ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION	ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION
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DESIGNED MM
DRAWN MM
CHECKED MM

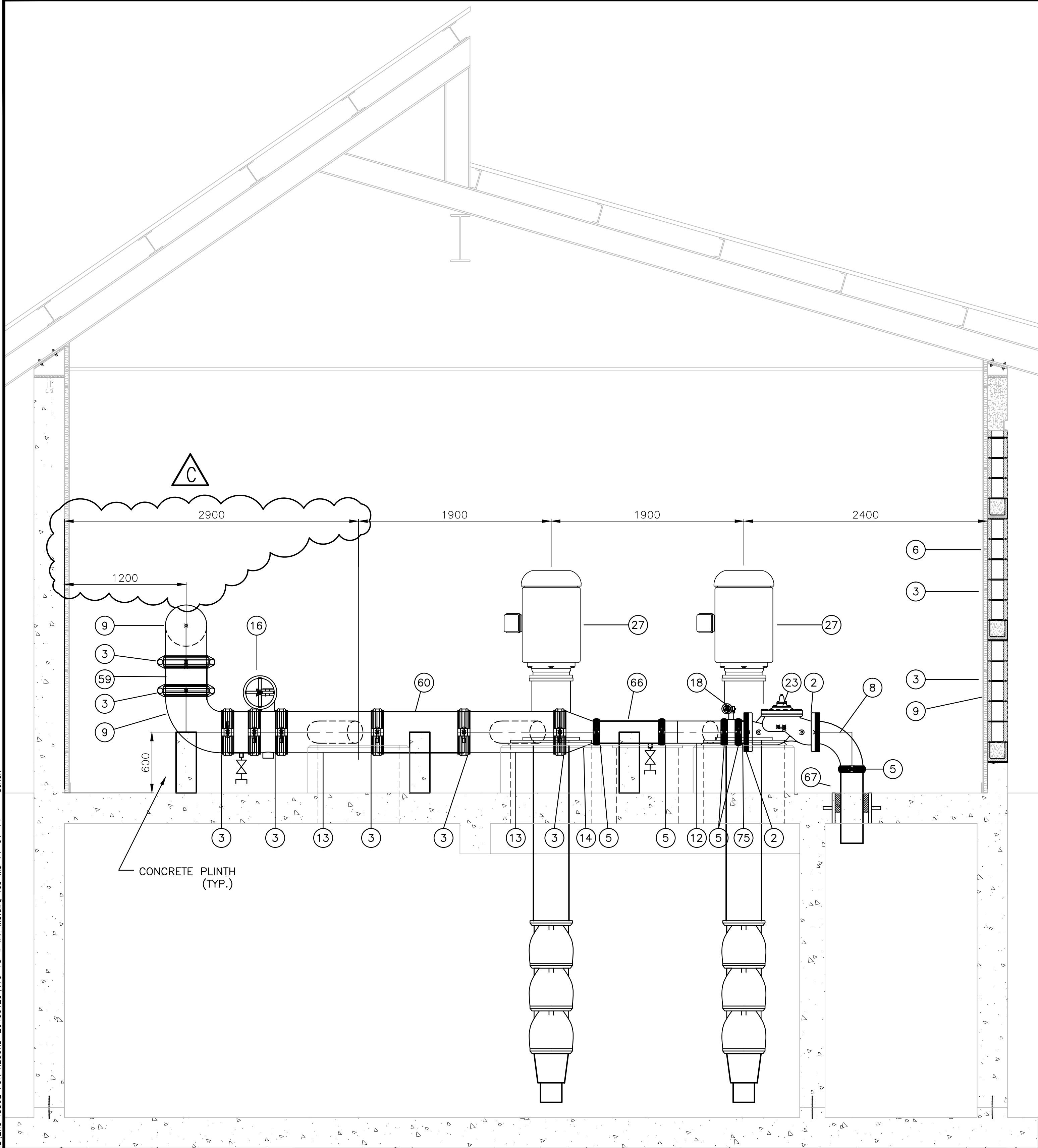
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RAINBOW PARK PUMP STATION
MECHANICAL – SECTION

SCALE: AS SHOWN
DRAWING No. 179.75.1
SHEET No. M2 ISSUE D

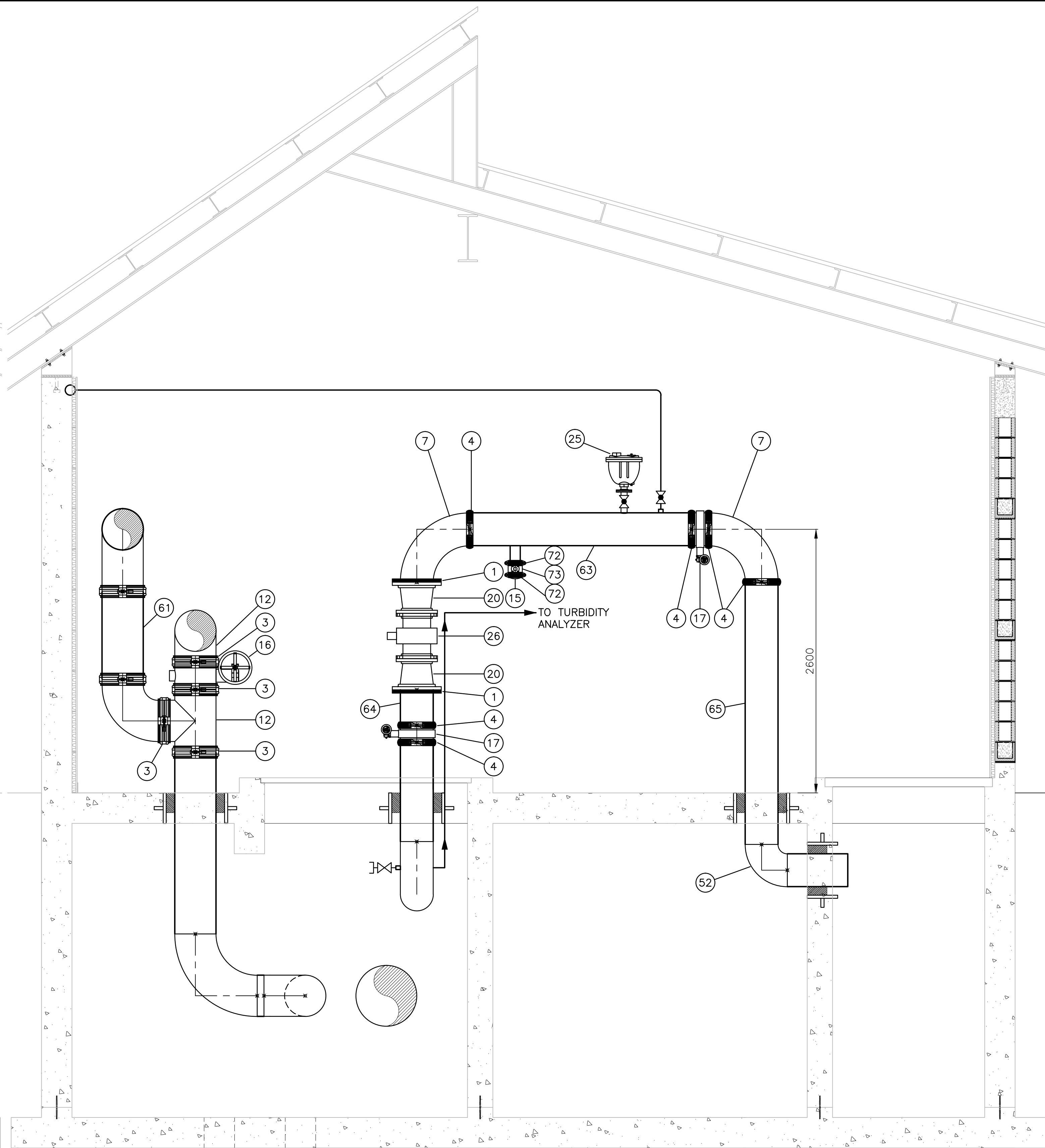


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SECTION
1:25
2
M1



500x500x500 SUMP
100# PVC DRAIN

SECTION
1:25
3
M1

PLOT: FULL 1:1 HALF 1:2

AutoCAD DRAWING	REVISONS	SECTION 2					SECTION 3					DESIGNED	DRAWN	CHECKED
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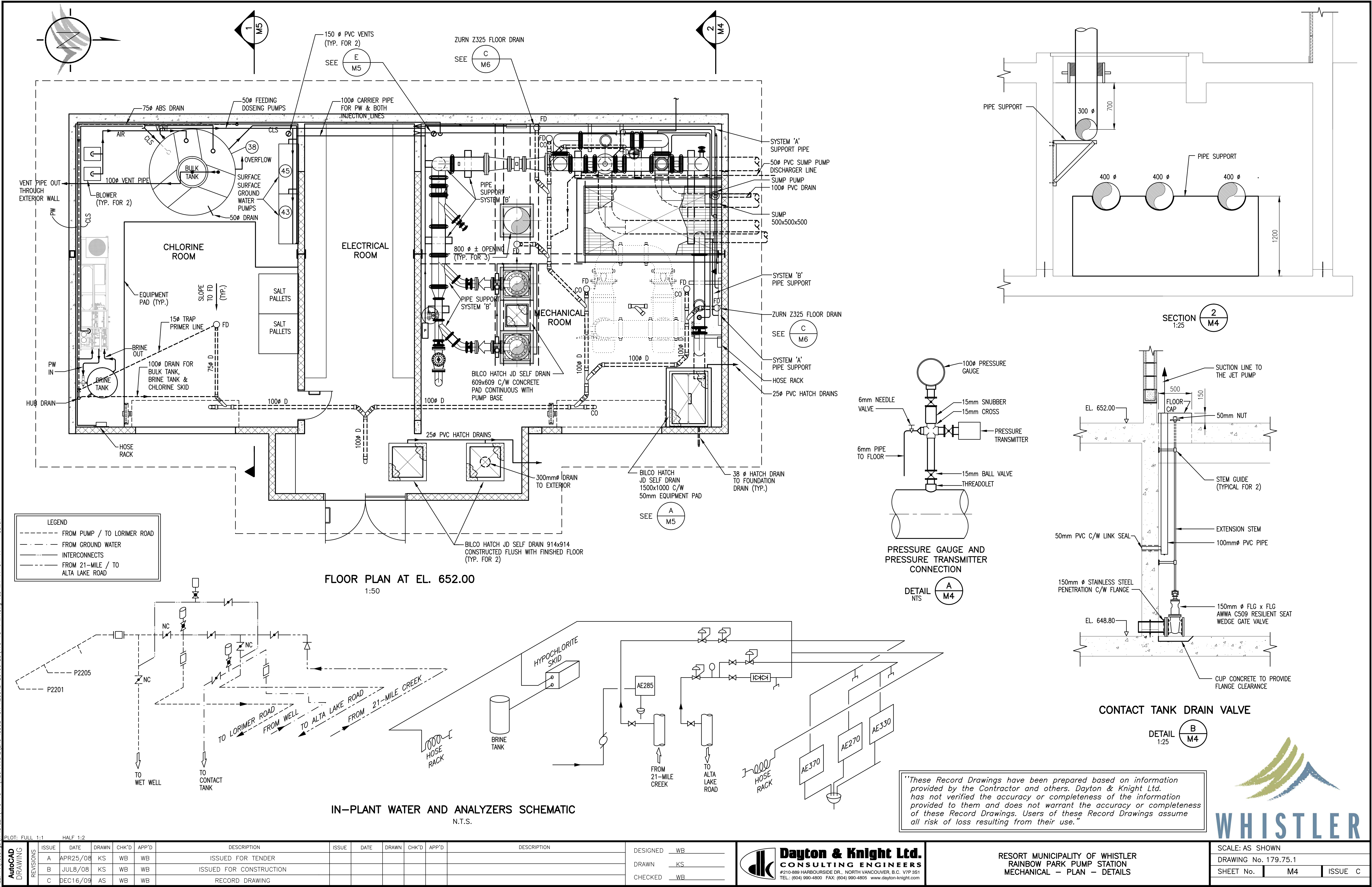
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RESORT MUNICIPALITY OF WHISTLER
RAINBOW PARK PUMP STATION
MECHANICAL - SECTIONS

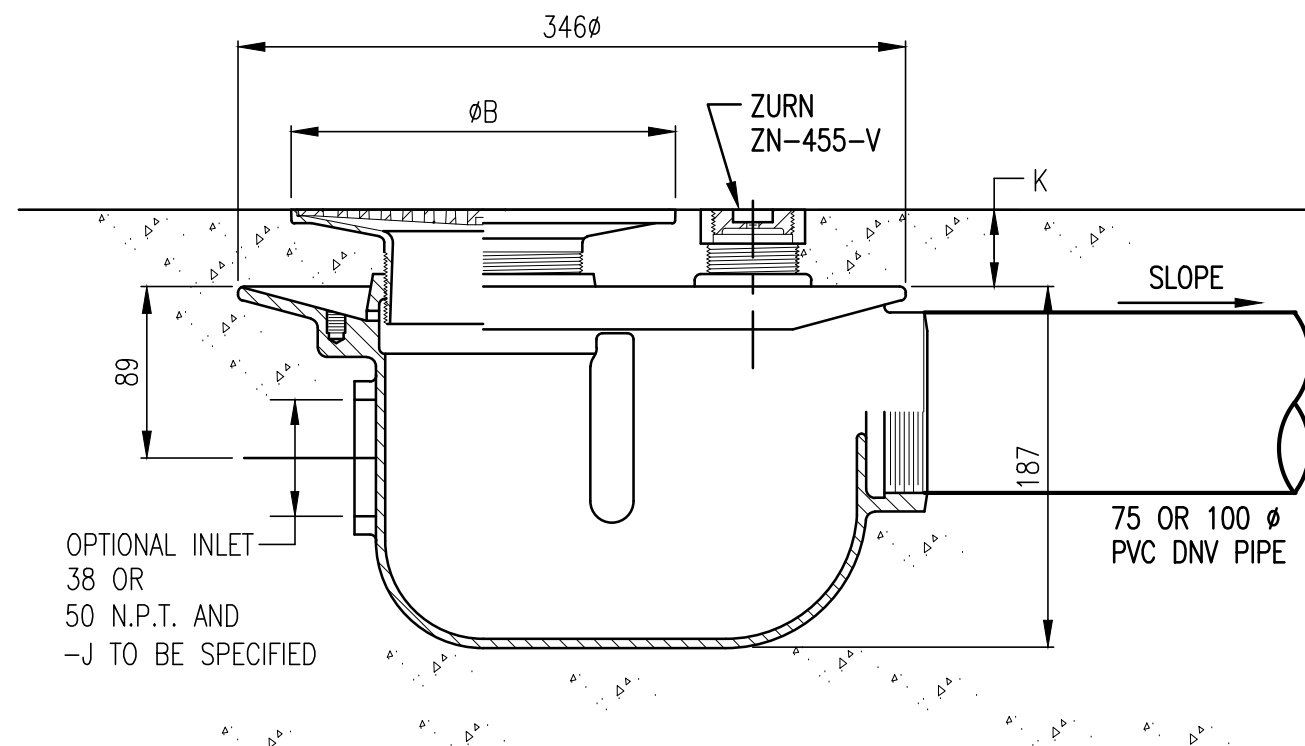
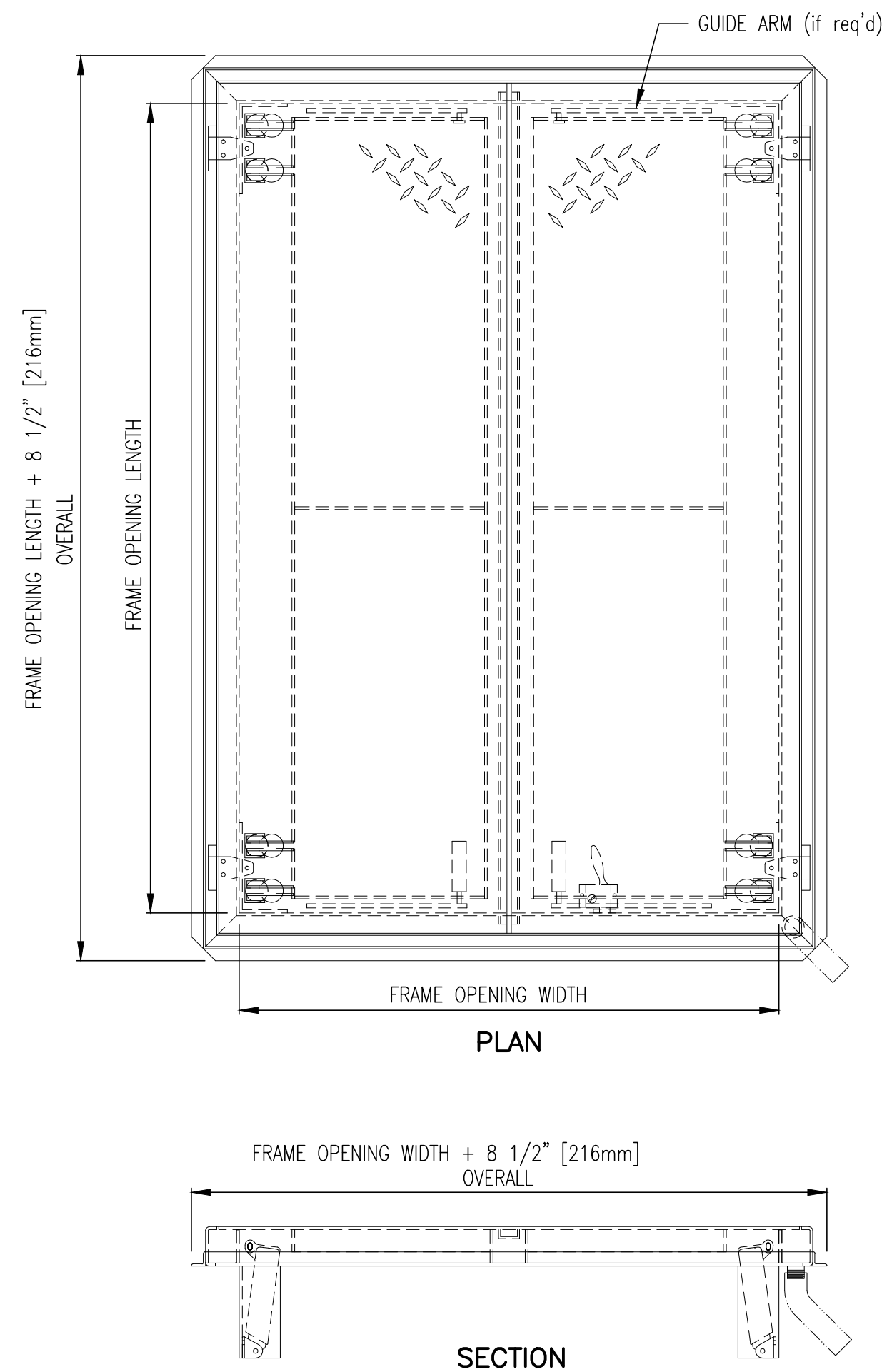
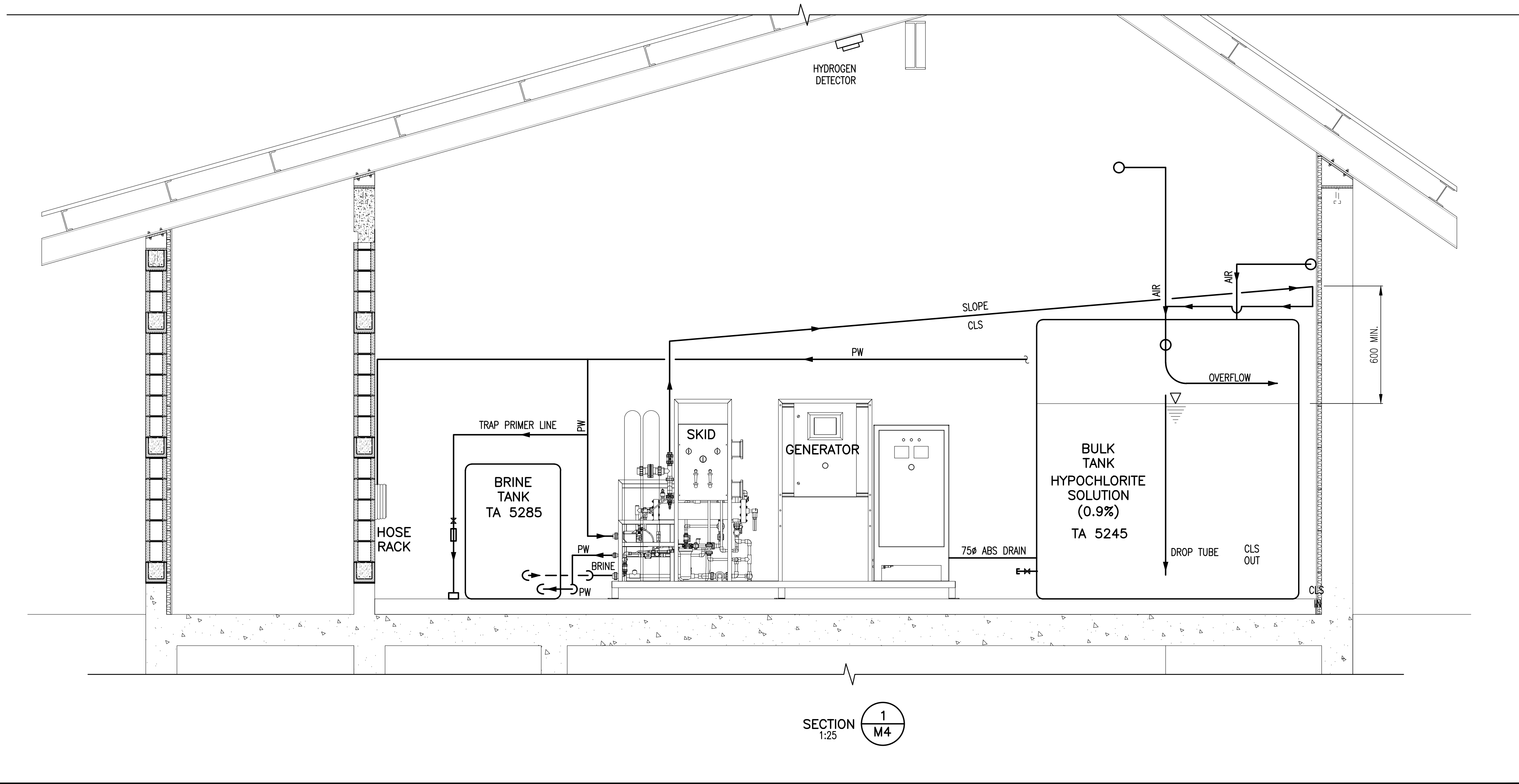
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SHEET No.	M3	ISSUE D



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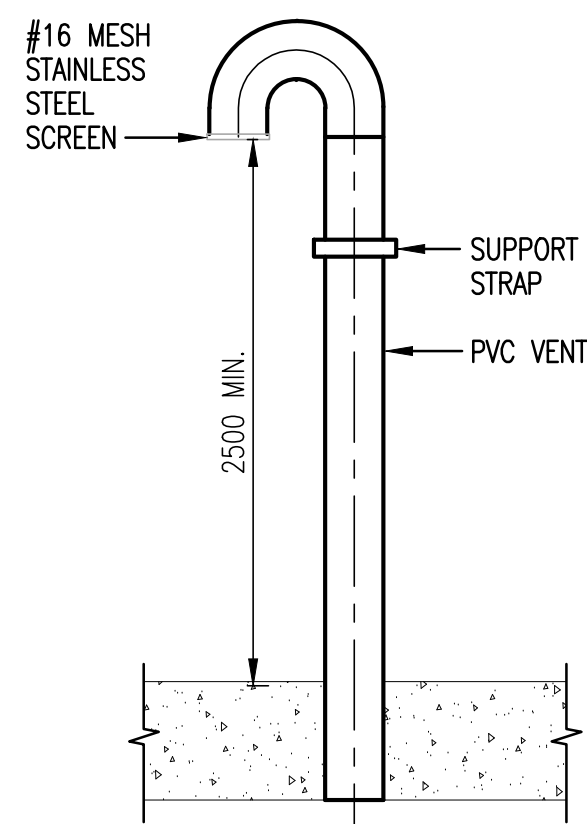


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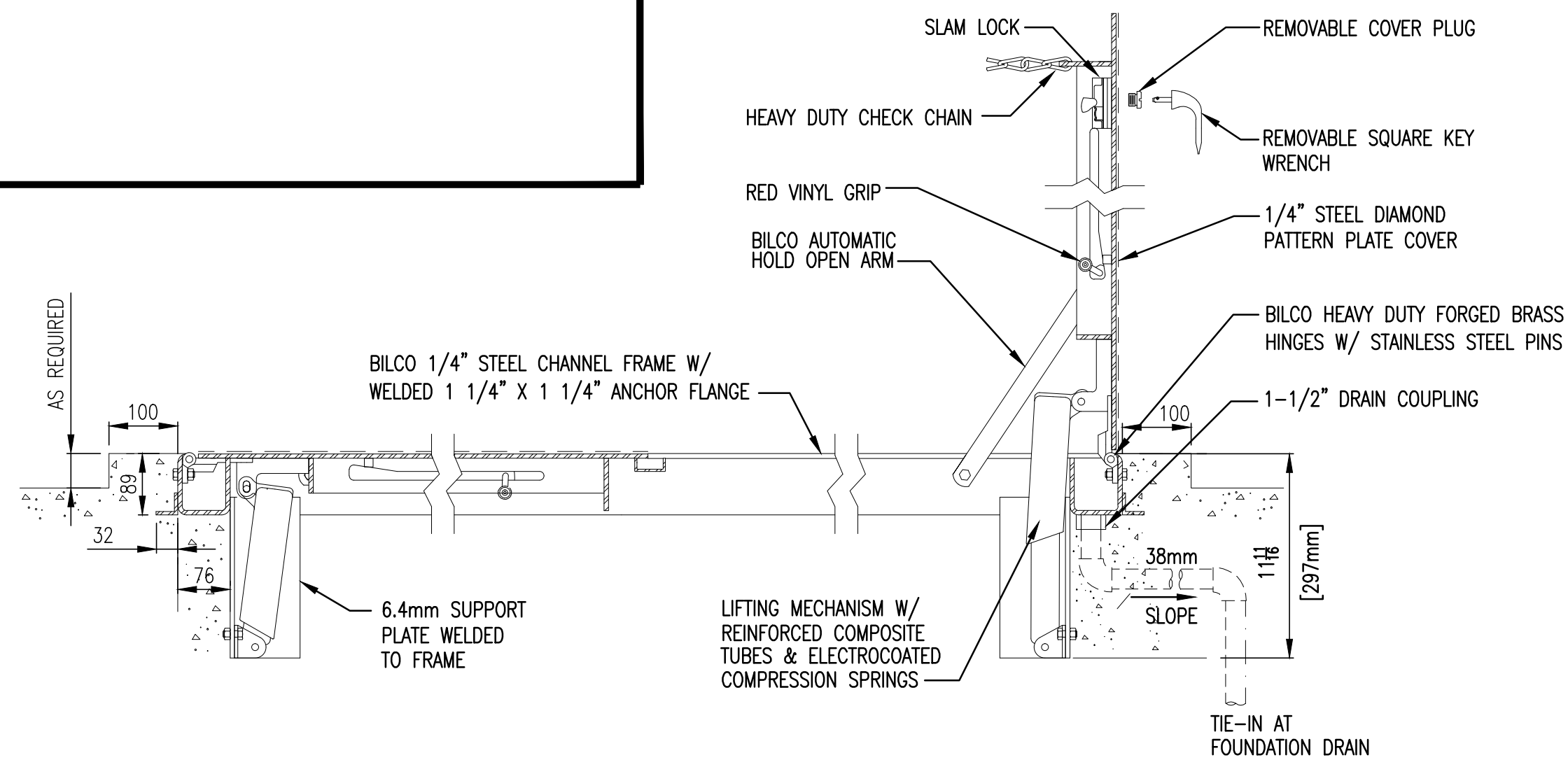
DETAIL
NTS
C
M5

TYPICAL FLOOR DRAINS -FINISHED AREA
(EX. GENSET ROOM)



DETAIL
N.T.S.
B
M5

TYPICAL TANK VENT PIPE



DETAIL
N.T.S.
A
M5

BILCO HATCH JD SELF DRAIN
(OTHER HATCHES SIMILAR)

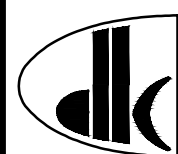
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WHISTLER

PLOT: FULL 1:50 HALF 1:100

AutoCAD DRAWING	REVISIONS	ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION	ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION	DESIGNED	WB	DRAWN	KS	CHECKED	WB
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		B	JUL8/08	KS	WB	WB	ISSUED FOR CONSTRUCTION												
		C	DEC16/09	AS	WB	WB	RECORD DRAWING												



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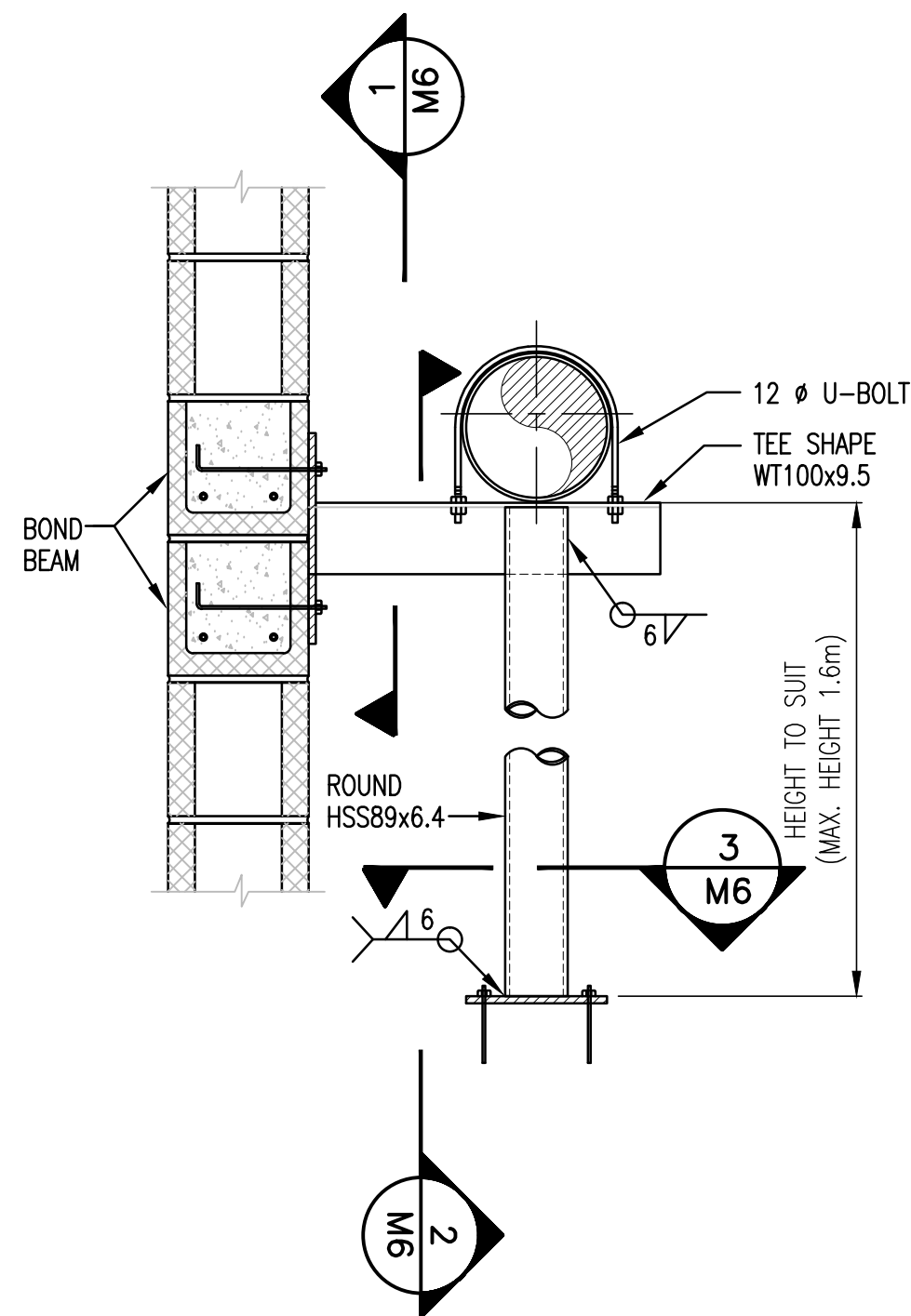
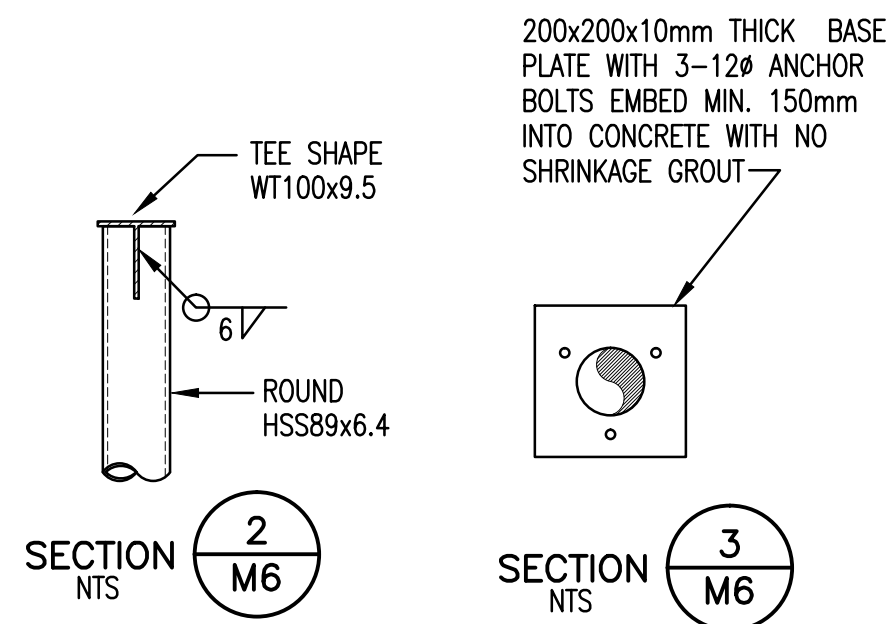
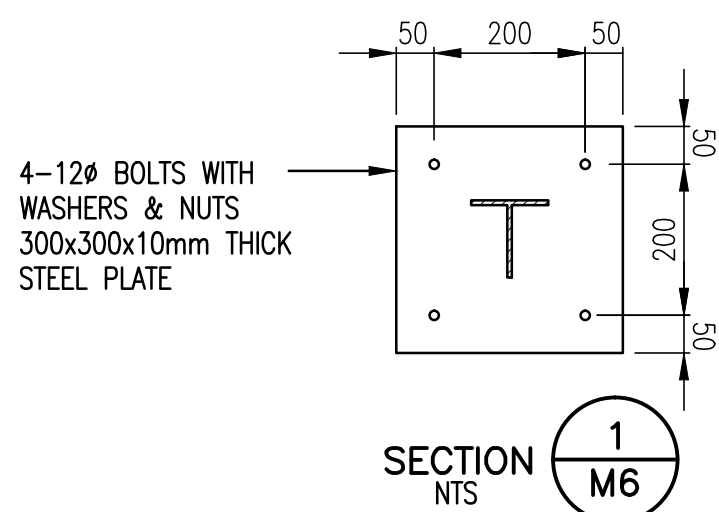
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RAINBOW PARK PUMP STATION
MECHANICAL - SECTION - DETAILS

SCALE: AS SHOWN

DRAWING No. 179.75.1

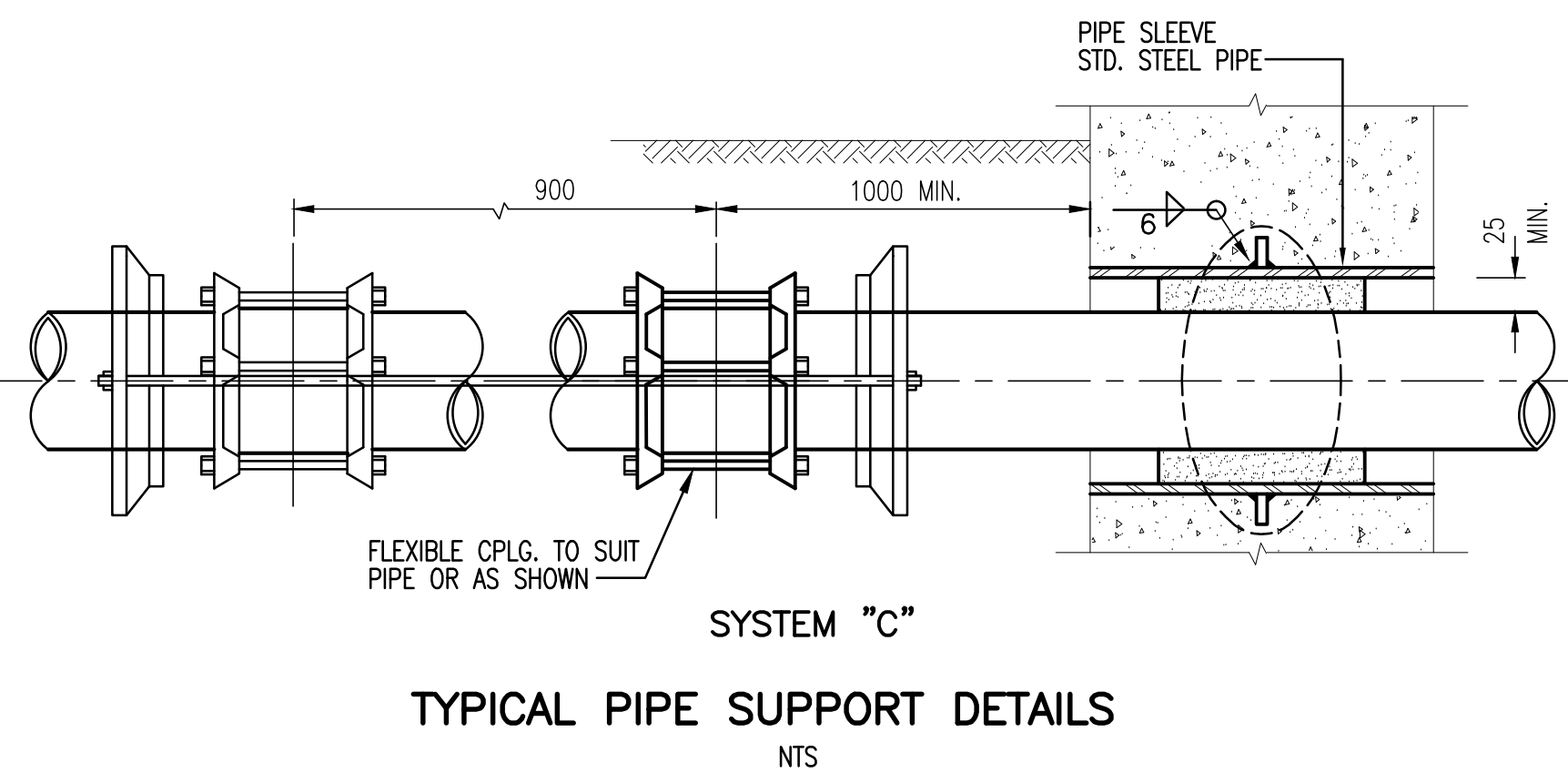
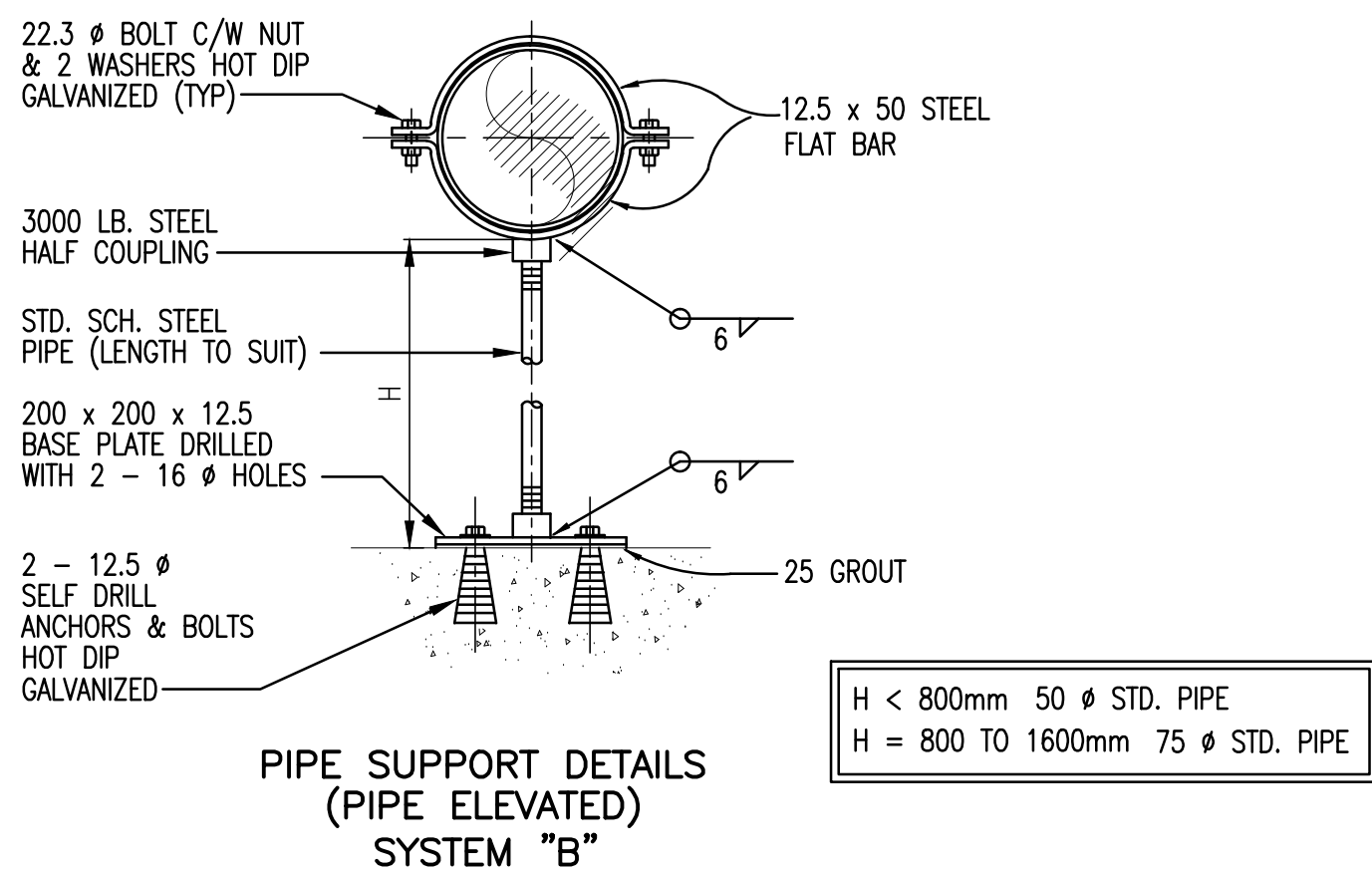
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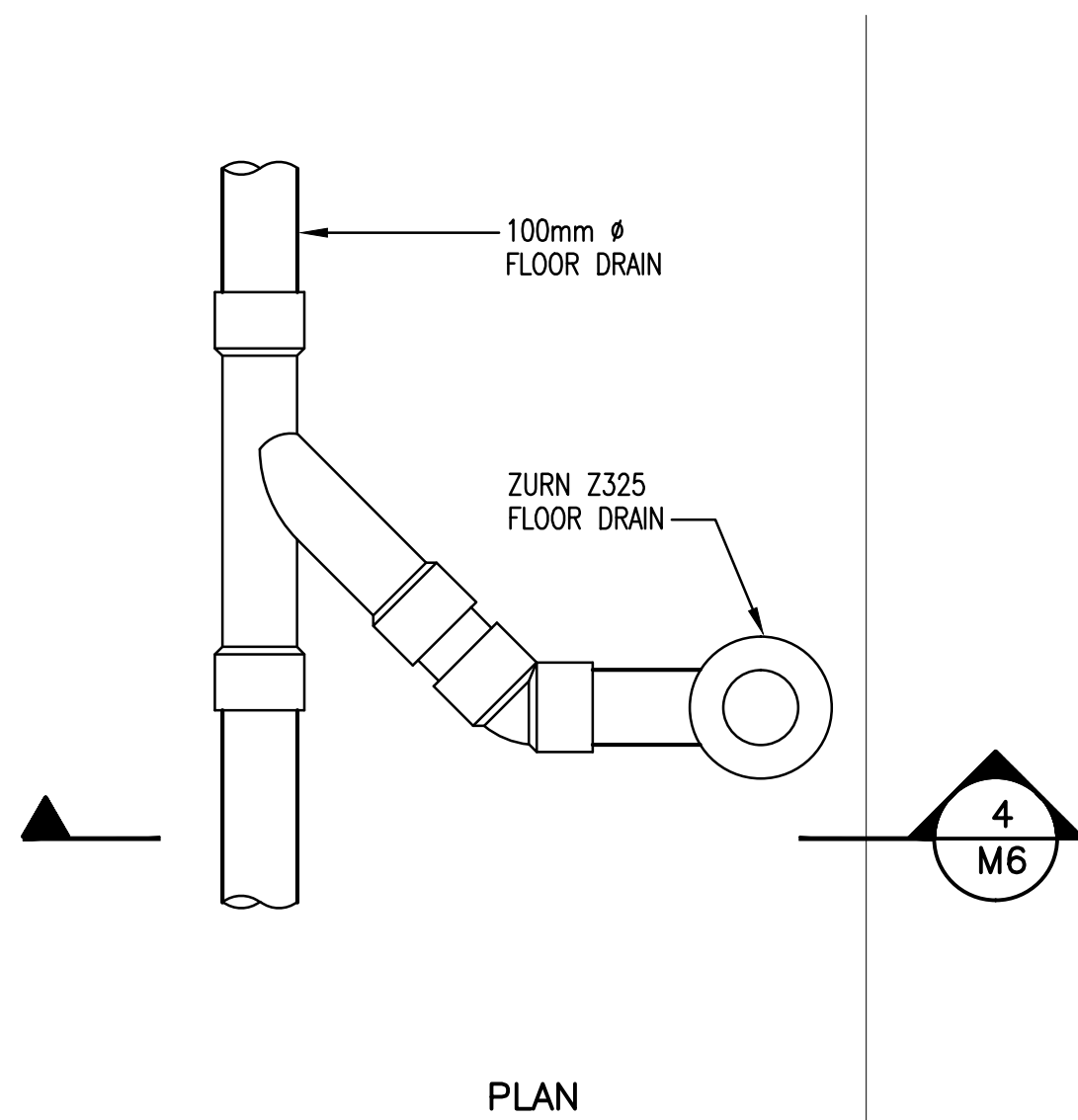


SINGLE PIPE WALL BRACKET
SYSTEM "A"

SCHEDULE - PIPE HANGER ROD AND SPACING OF ROD/BRACKET				
PIPE SIZE MILLIMETRES	ROD SIZE MILLIMETRES	MAXIMUM SPACING - METRES		
		STEEL PIPE	COPPER TUBING AND PVC	
200 & 300	22	3	-	
350 & LARGER	25	3	-	

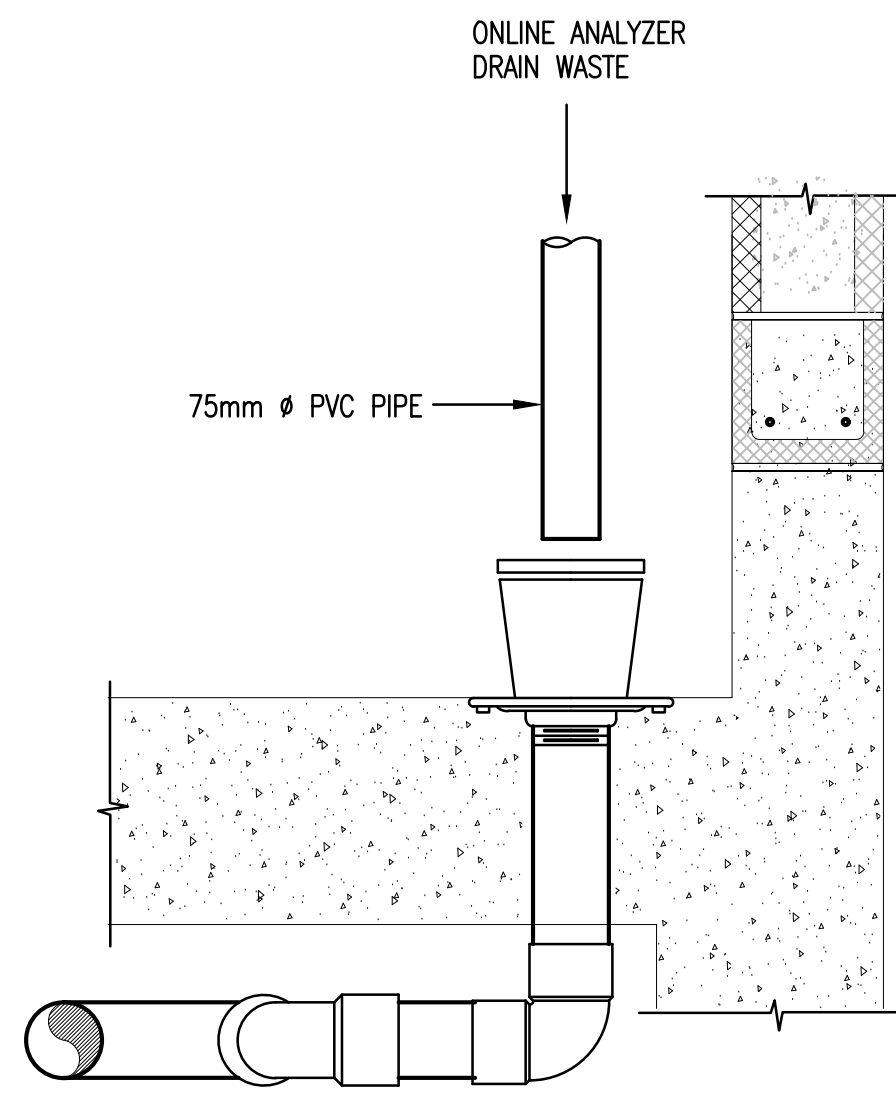


TYPICAL PIPE SUPPORT DETAILS
NTS

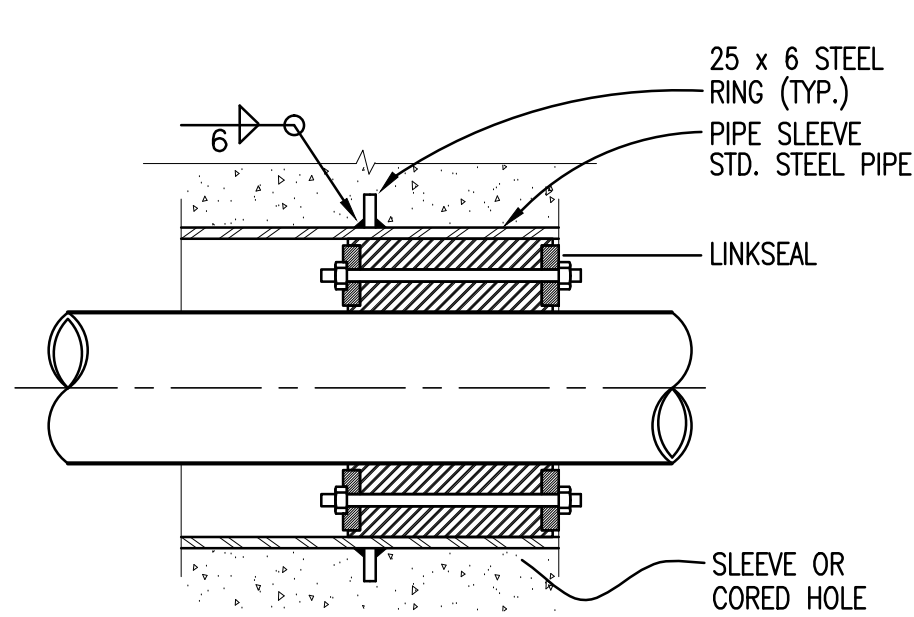


PLAN

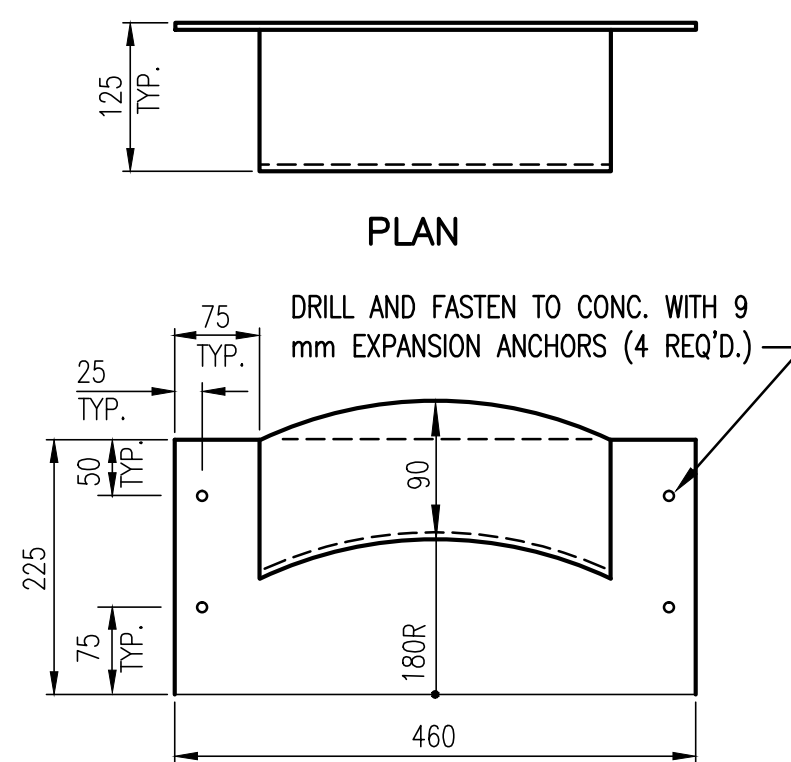
DETAIL
NTS
C
M6



SECTION
NTS
4
M6



SYSTEM "D"
AT ALL CONCRETE PENETRATIONS

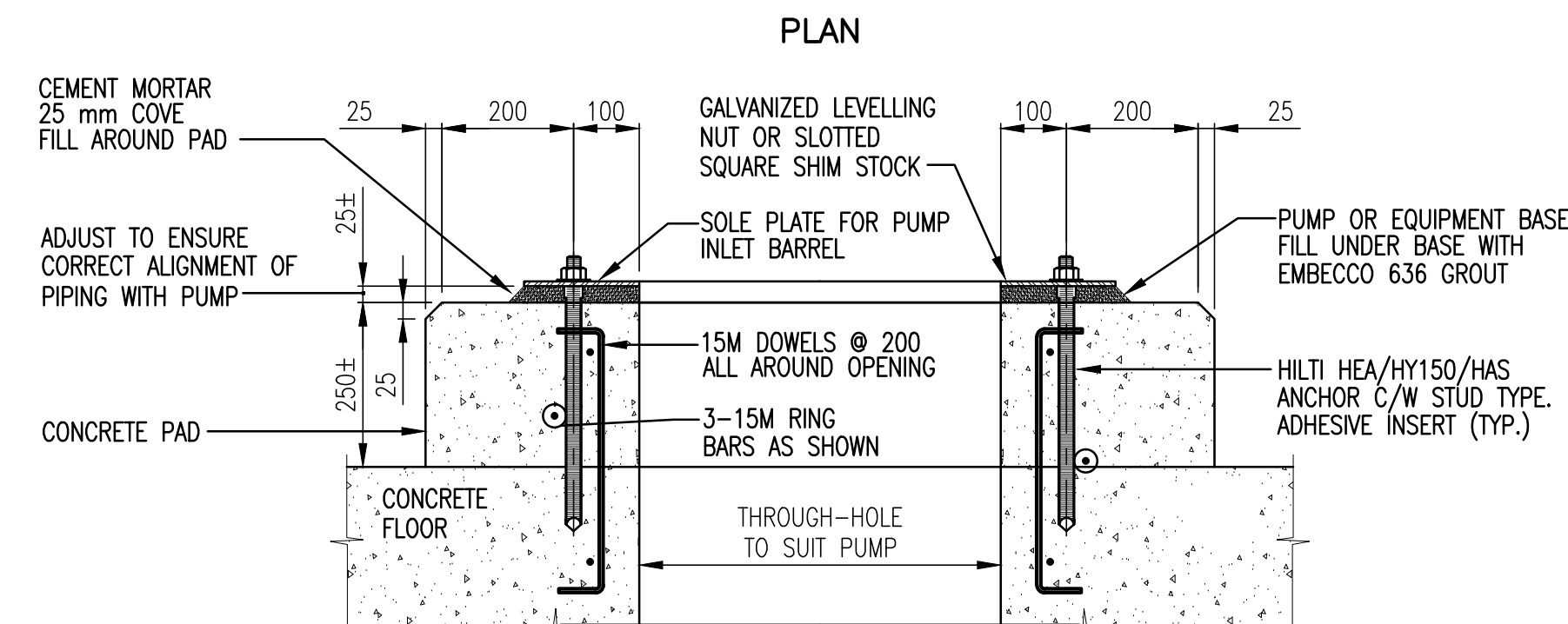
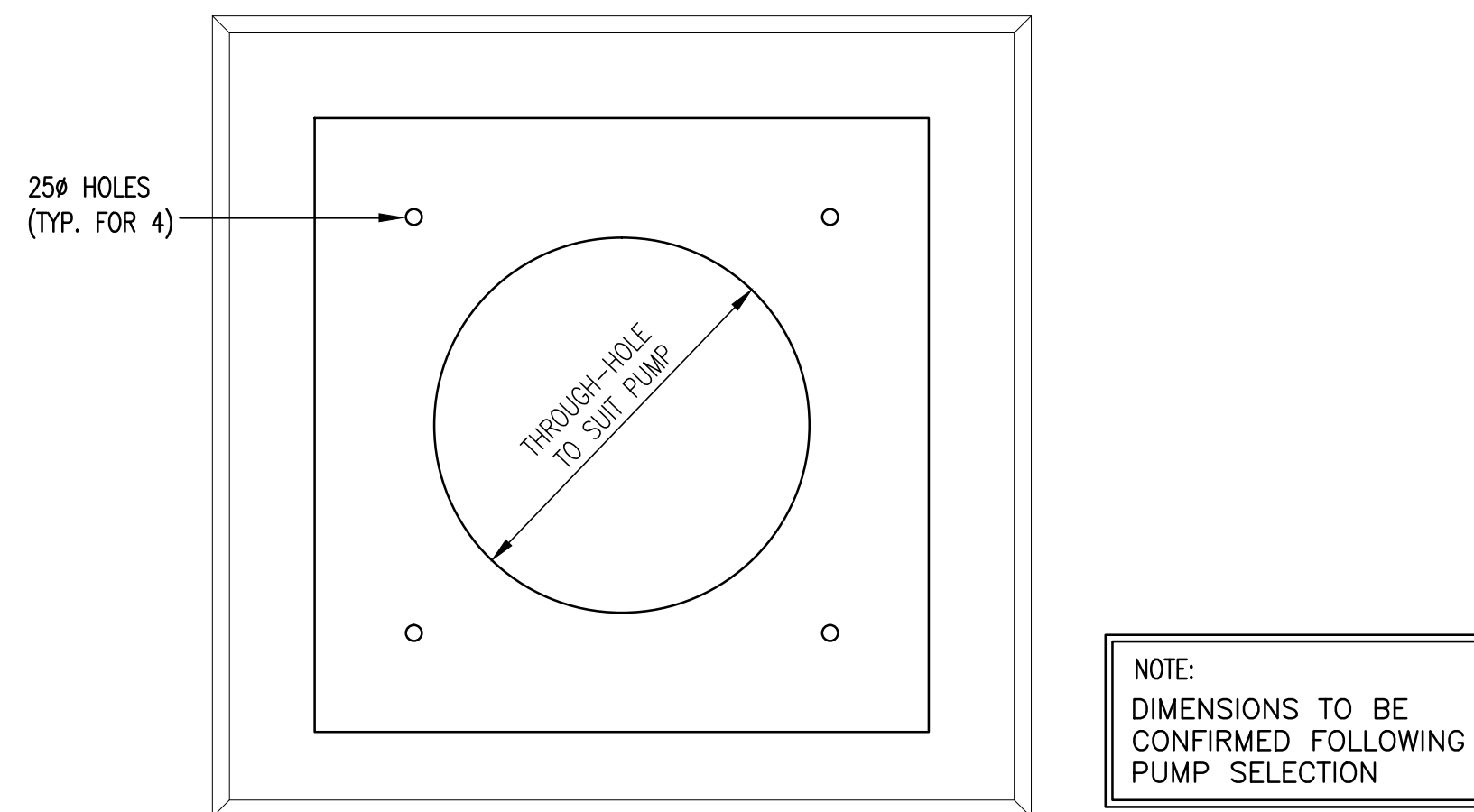


ELEVATION

DETAIL
NTS
B
M6

WALL MOUNTED HOSE RACK

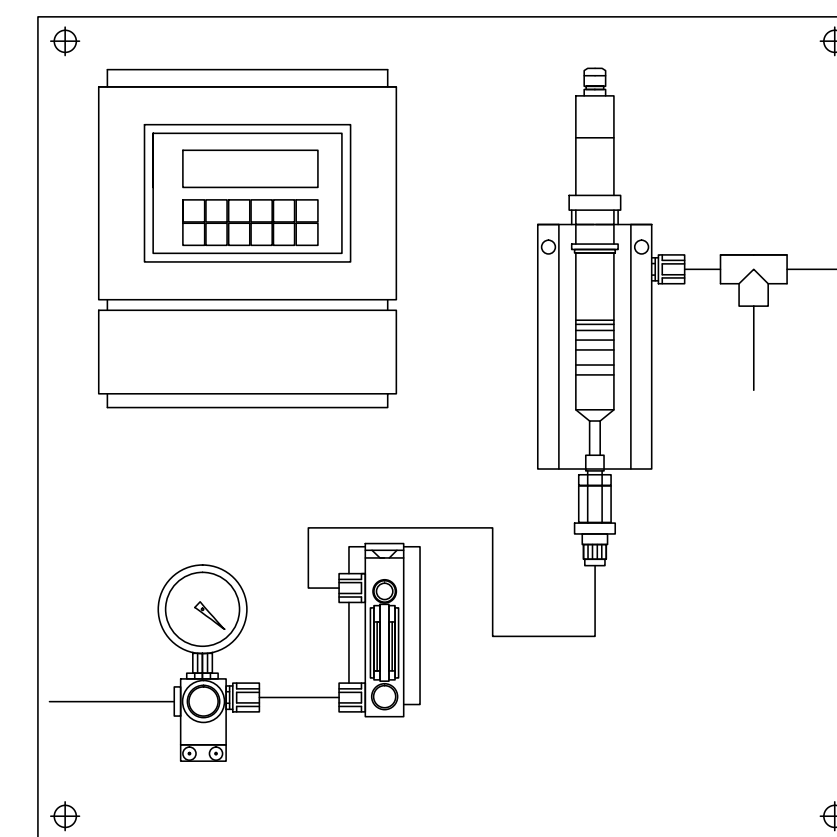
NOTE:
ALL HOSE RACKS SHALL BE WELDED CONSTRUCTION
FROM 6 mm PLATE, GALV'D. AFTER FABRICATION.
ALL BOLTS AND NUTS SHALL BE GALV'D.



SECTION

DETAIL
N.T.S.
A
M6

TYPICAL FOUNDATION FOR PUMPS
ON NEW CONCRETE FLOORS



TYPICAL CHLORINE PANEL
NTS

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WHISTLER

PLOT: FULL 1:50 HALF 1:100

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	A	MAY12/08	KS	WB	WB							WB	KS	WB
	B	JUL8/08	KS	WB	WB									
	C	DEC17/09	AS	WB	WB									

DESIGNED WB
DRAWN KS
CHECKED WB



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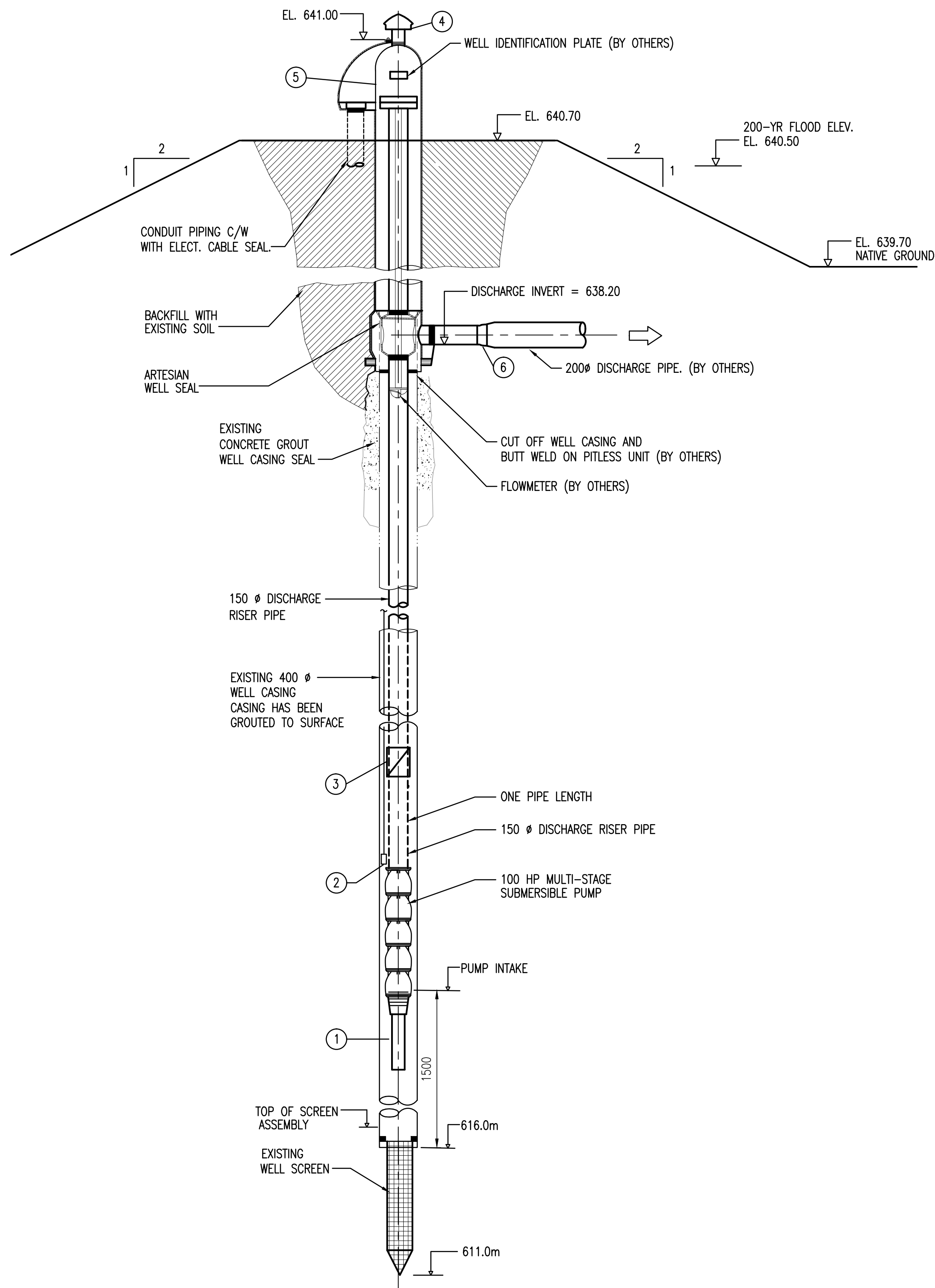
RESORT MUNICIPALITY OF WHISTLER
RAINBOW PARK PUMP STATION
MECHANICAL - DETAILS

SCALE: AS SHOWN

DRAWING No. 179.75.1

SHEET No. **M6** ISSUE **C**

FILE: P:\Records\WHISTLER\179-75-1\MECHANICAL\2nd-ISSUE FOR RECORD-20100125\179-75-1 M7.dwg Tab: M7 11-01-14 dchen



BILL OF MAJOR MATERIALS FOR WATER WELL	
ITEM	DESCRIPTION
1	SUBMERSIBLE WELL PUMP AND RISER PIPE
2	WELL LEVEL INDICATOR (PRESSURE TRANSMITTER)
3	150 POPPET TYPE CHECK VALVE
4	VENT (BY OTHERS)
5	PITLESS UNIT FOR 400 WELL (BY OTHERS)
6	1 - 150 MNPT x 200 (150#) FLG FAB CONCENTRIC INCREASER (BY OTHERS)

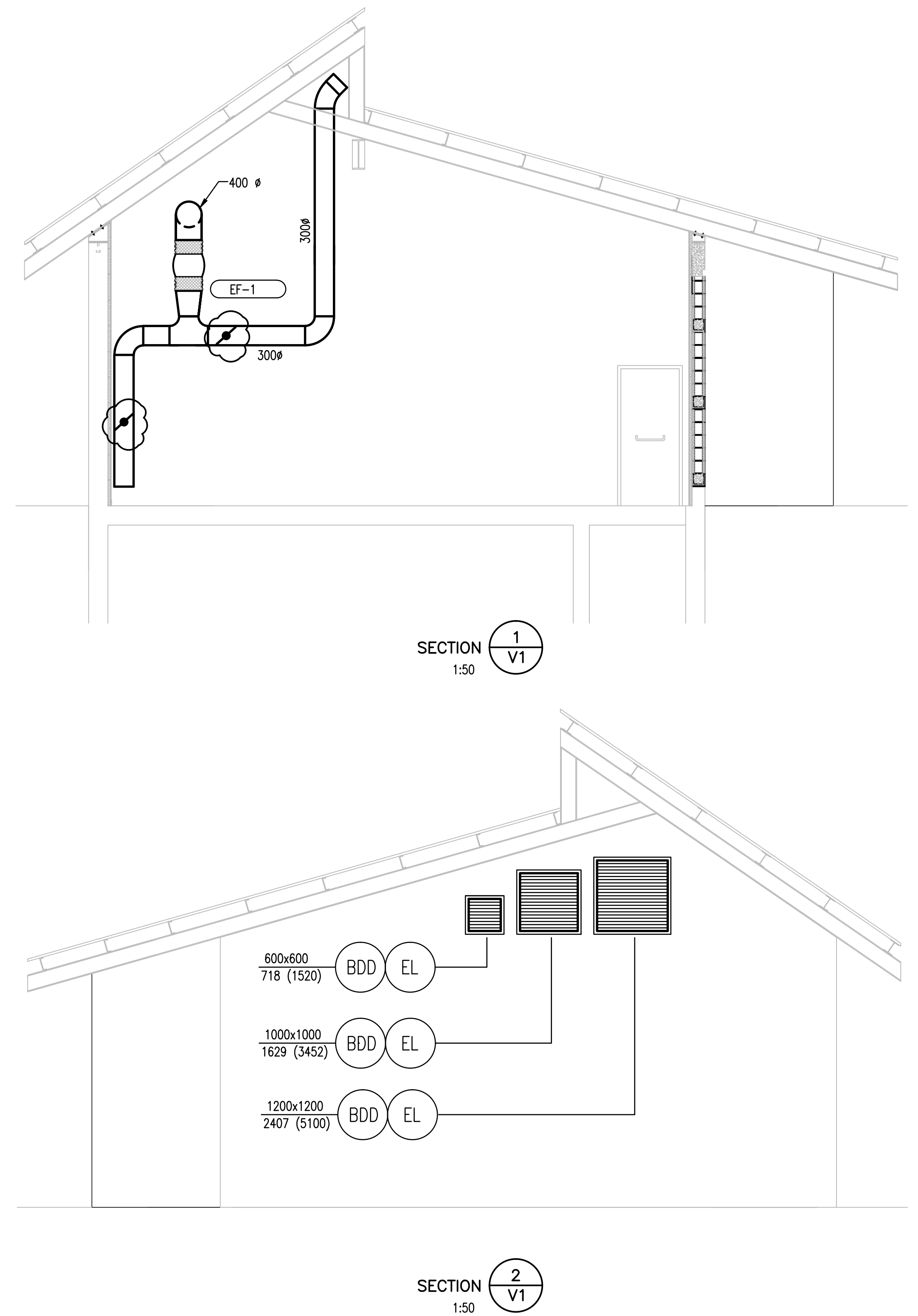
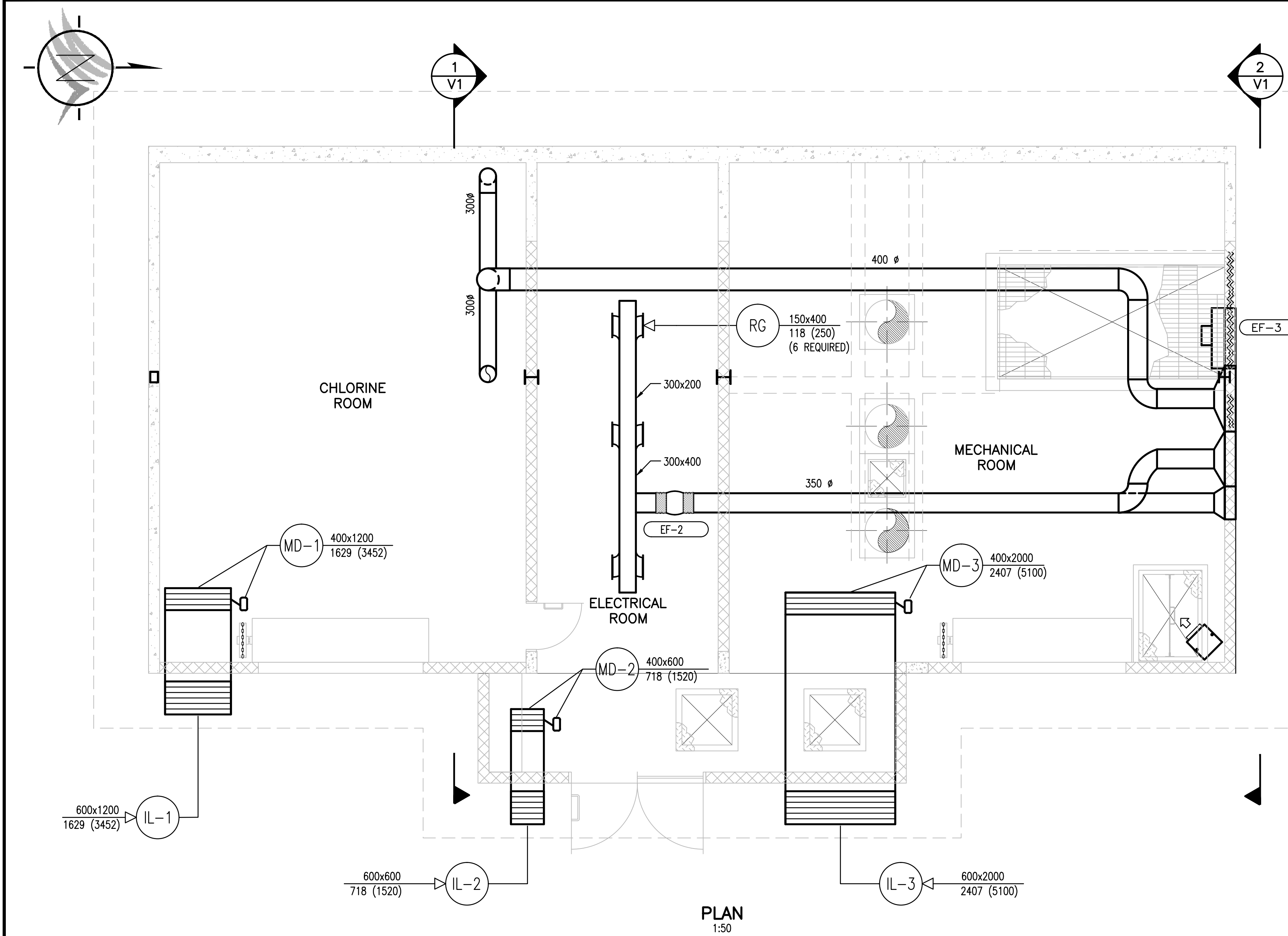
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PLOT: FULL 1:50 HALF 1:100

AutoCAD DRAWING	REVISIONS	ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION	ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION	DESIGNED	WB	 Dayton & Knight Ltd. CONSULTING ENGINEERS #210-889 HARBOURSIDE DR., NORTH VANCOUVER, B.C. V7P 3S1 TEL.: (604) 990-4800 FAX: (604) 990-4805 www.dayton-knight.com	RESORT MUNICIPALITY OF WHISTLER RAINBOW PARK PUMP STATION WATER WELL DETAILS	SCALE: AS SHOWN		
		A	MAY12/08	KS	WB	WB	ISSUED FOR TENDER											DRAWING No. 179.75.1		
		B	JUL8/08	KS	WB	WB	ISSUED FOR CONSTRUCTION											SHEET No. M7 ISSUE C		
		C	DEC17/09	AS	WB	WB	RECORD DRAWING													

FILE: P:\Records\WHISTLER\179-75-1\HEATING & VENTILATING\179-75-1 HVAC.dwg Tab V1 11-01-14 dchen



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PLOT: FULL 1:1 HALF 1:2

ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION	ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION
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B	JUL8/08	KS	EP	EP	ISSUED FOR CONSTRUCTION						
C	DEC16/09	AS	WB	WB	RECORD DRAWING						

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DRAWN KS
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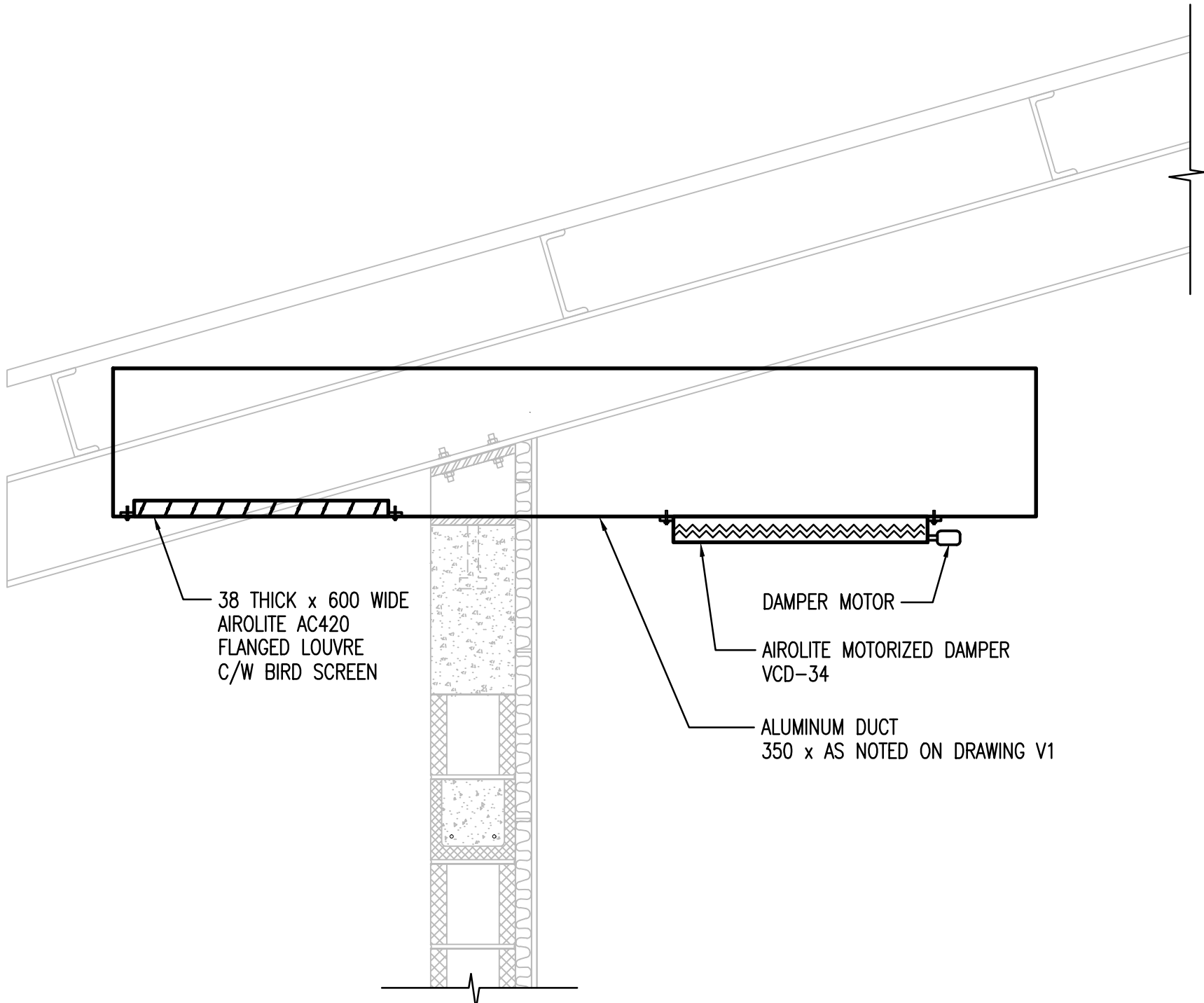
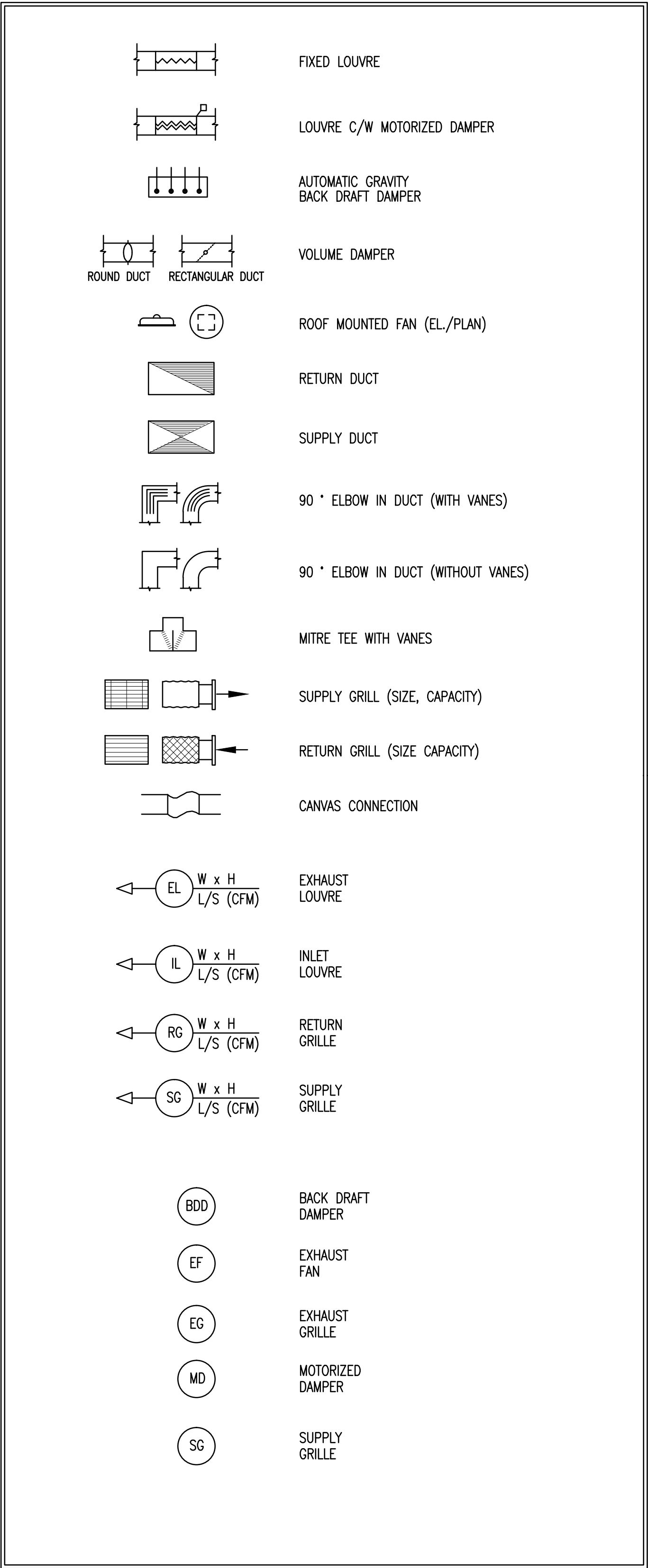
RESORT MUNICIPALITY OF WHISTLER
RAINBOW PARK PUMP STATION
HEATING AND VENTILATION - PLAN

SCALE: AS SHOWN
DRAWING No. 179.75.1
SHEET No. V1 ISSUE C



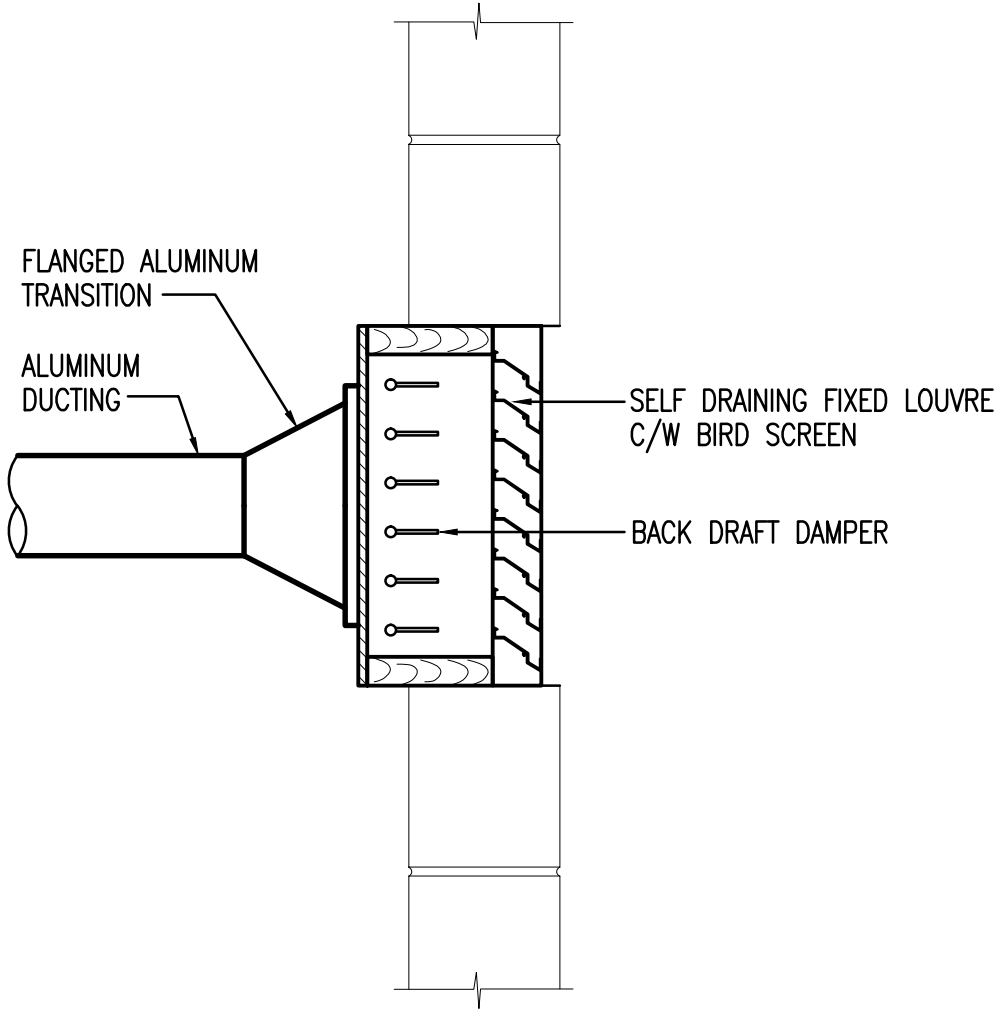
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LEGEND



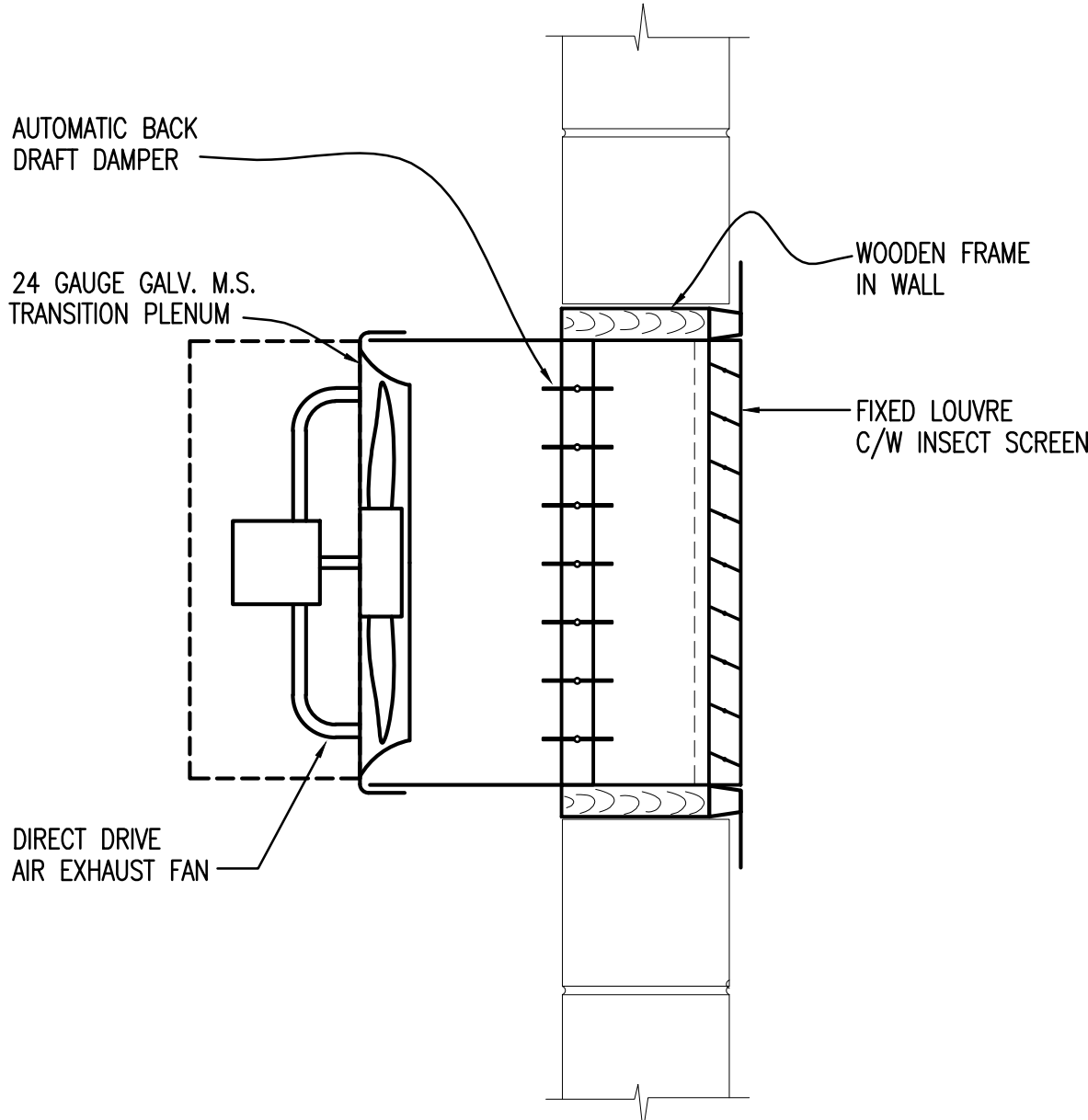
TYPICAL AIR INLET

DETAIL A
NTS V2



EXHAUST FAN

DETAIL C
V2



TYPICAL AIR EXHAUST FAN AND OUTLET

NTS

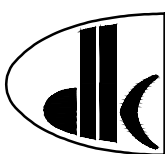
DETAIL B
NTS V2

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PLOT: FULL 1:1 HALF 1:2

ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION	ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION
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DESIGNED EP
DRAWN KS
CHECKED EP

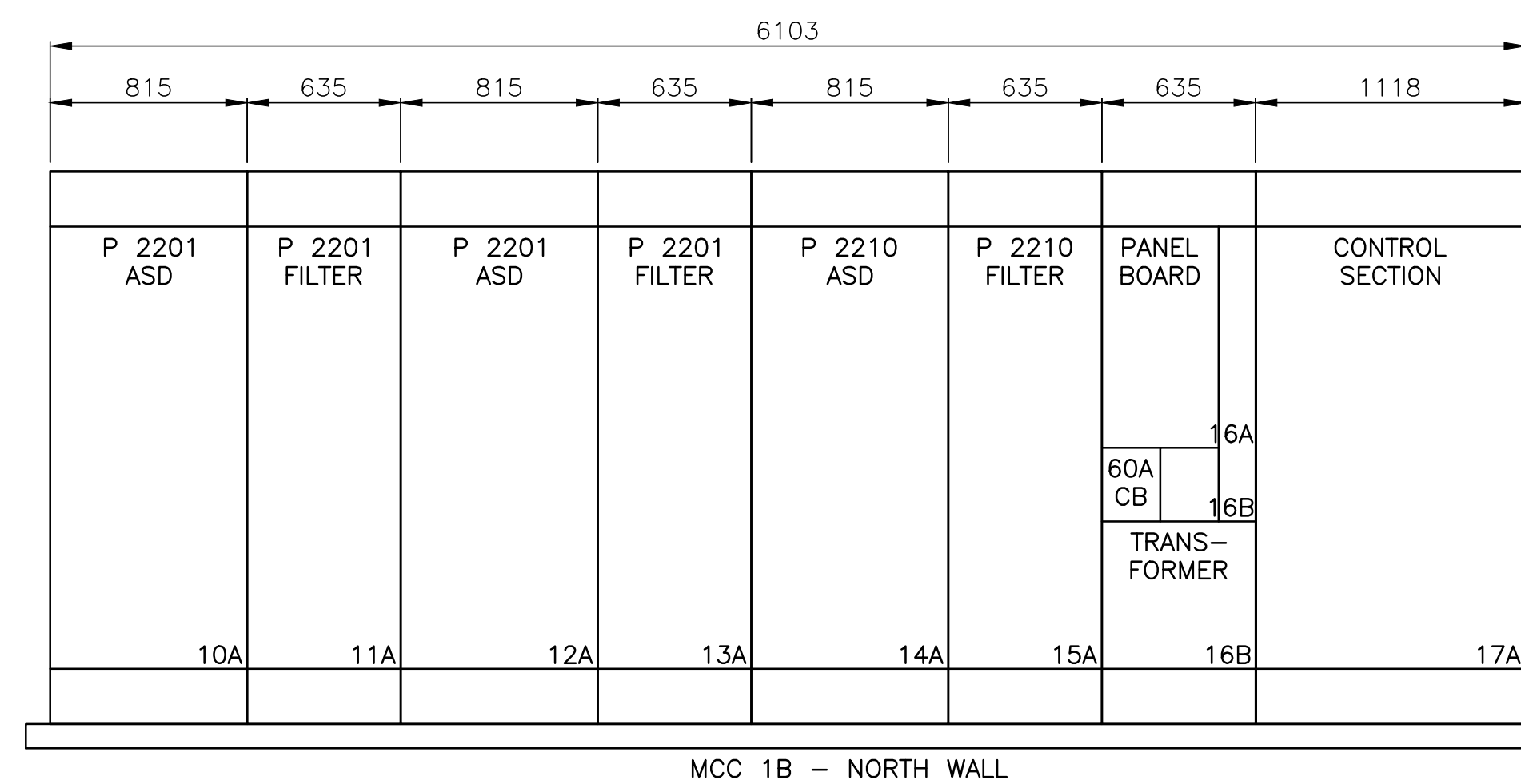
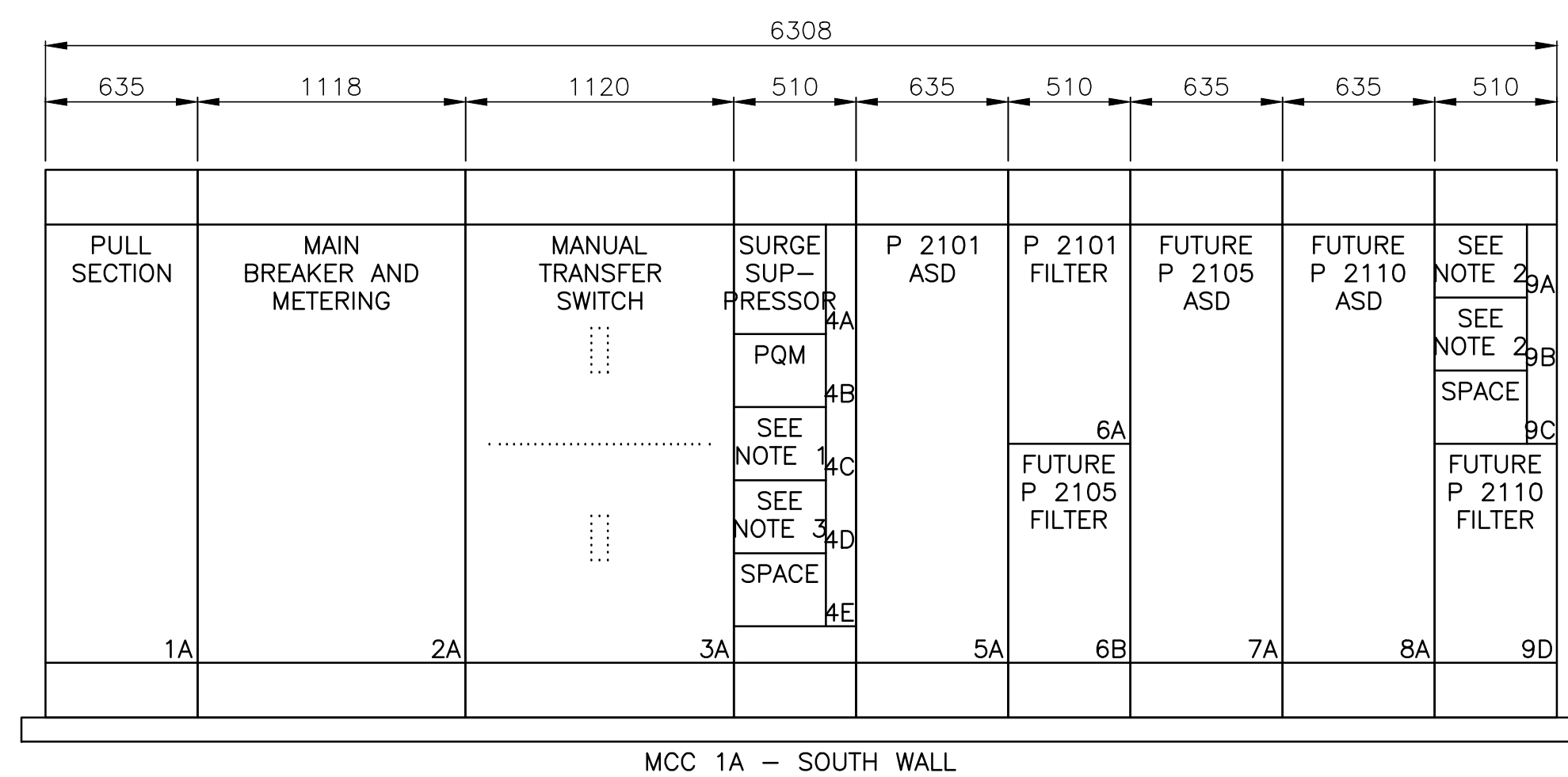


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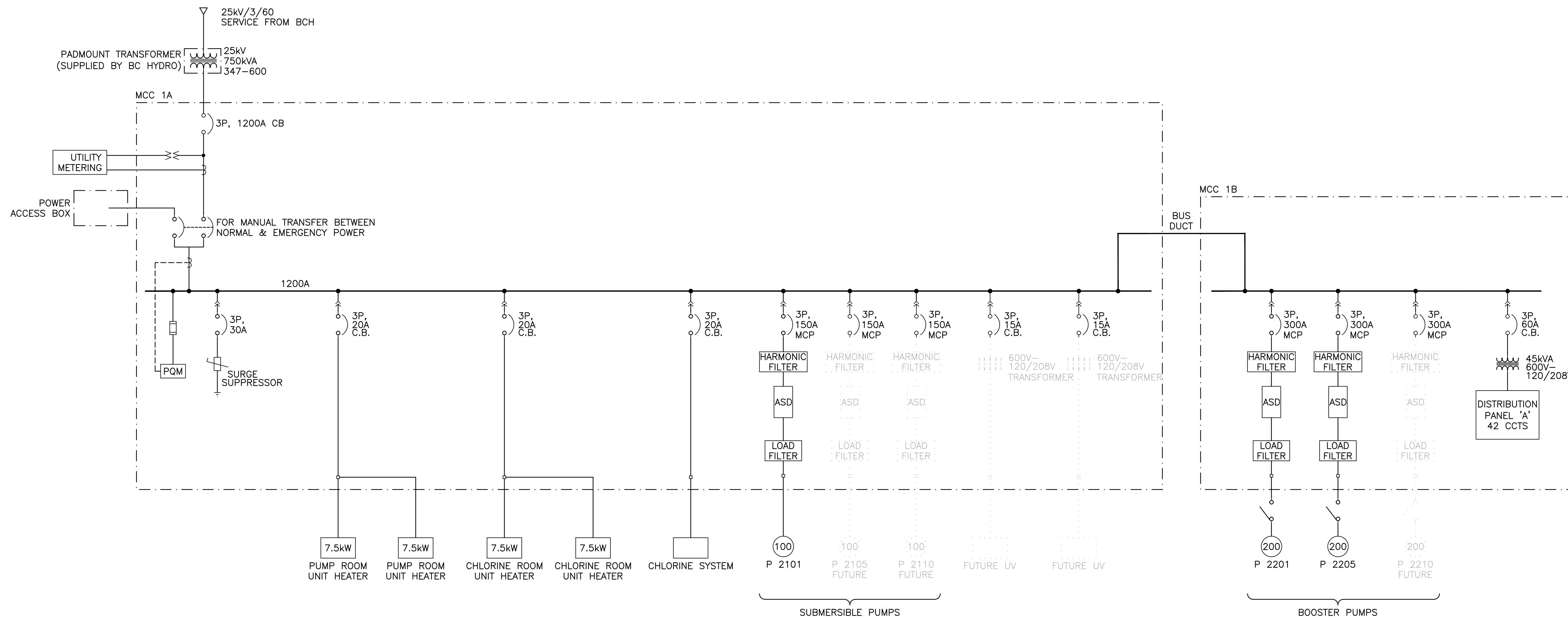
RESORT MUNICIPALITY OF WHISTLER
RAINBOW PARK PUMP STATION
HEATING AND VENTILATION - PLAN



SCALE: AS SHOWN
DRAWING No. 179.75.1
SHEET No. V2 ISSUE C



RAINBOW PARK PUMP STATION MCC LAYOUT

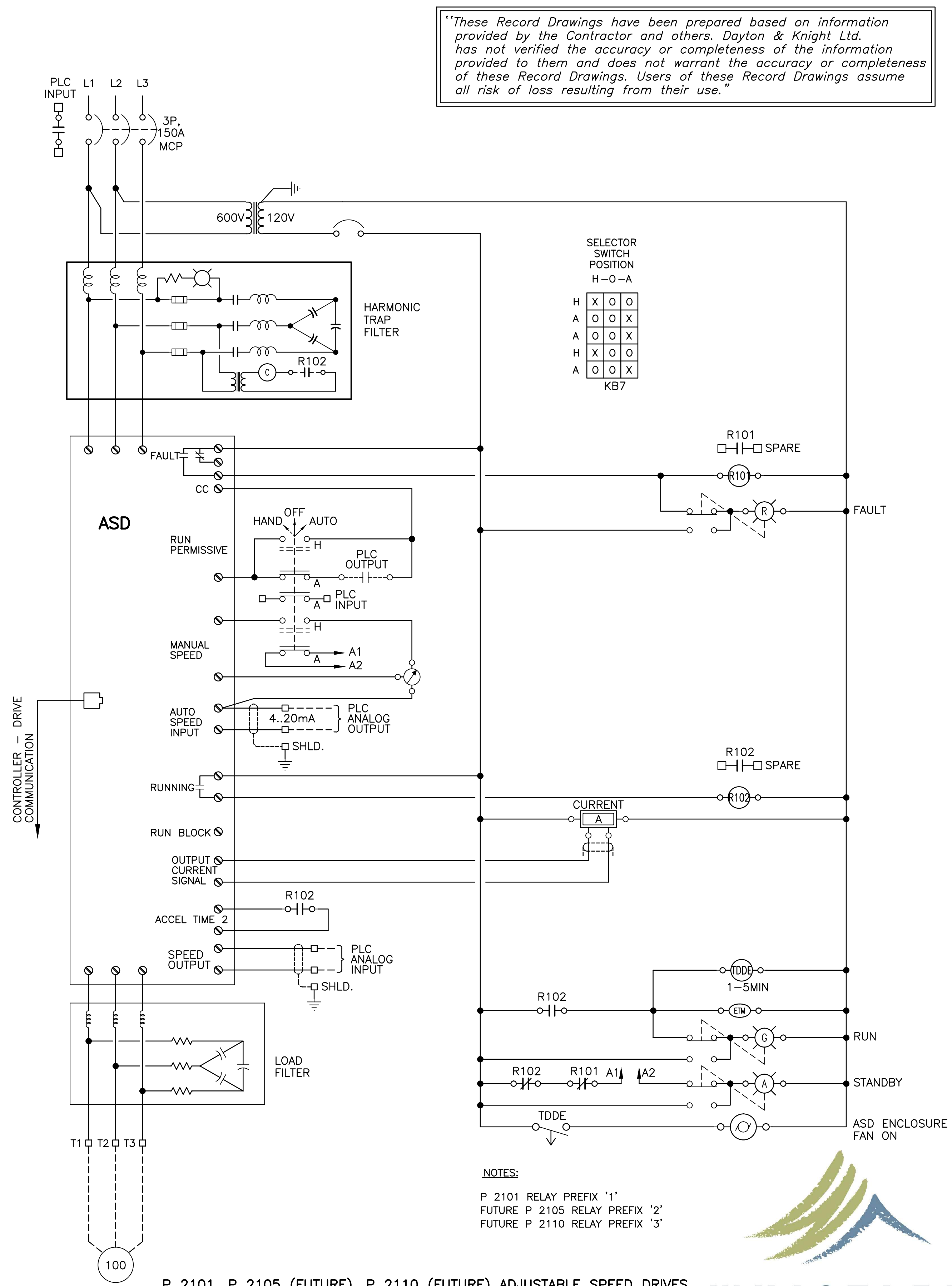
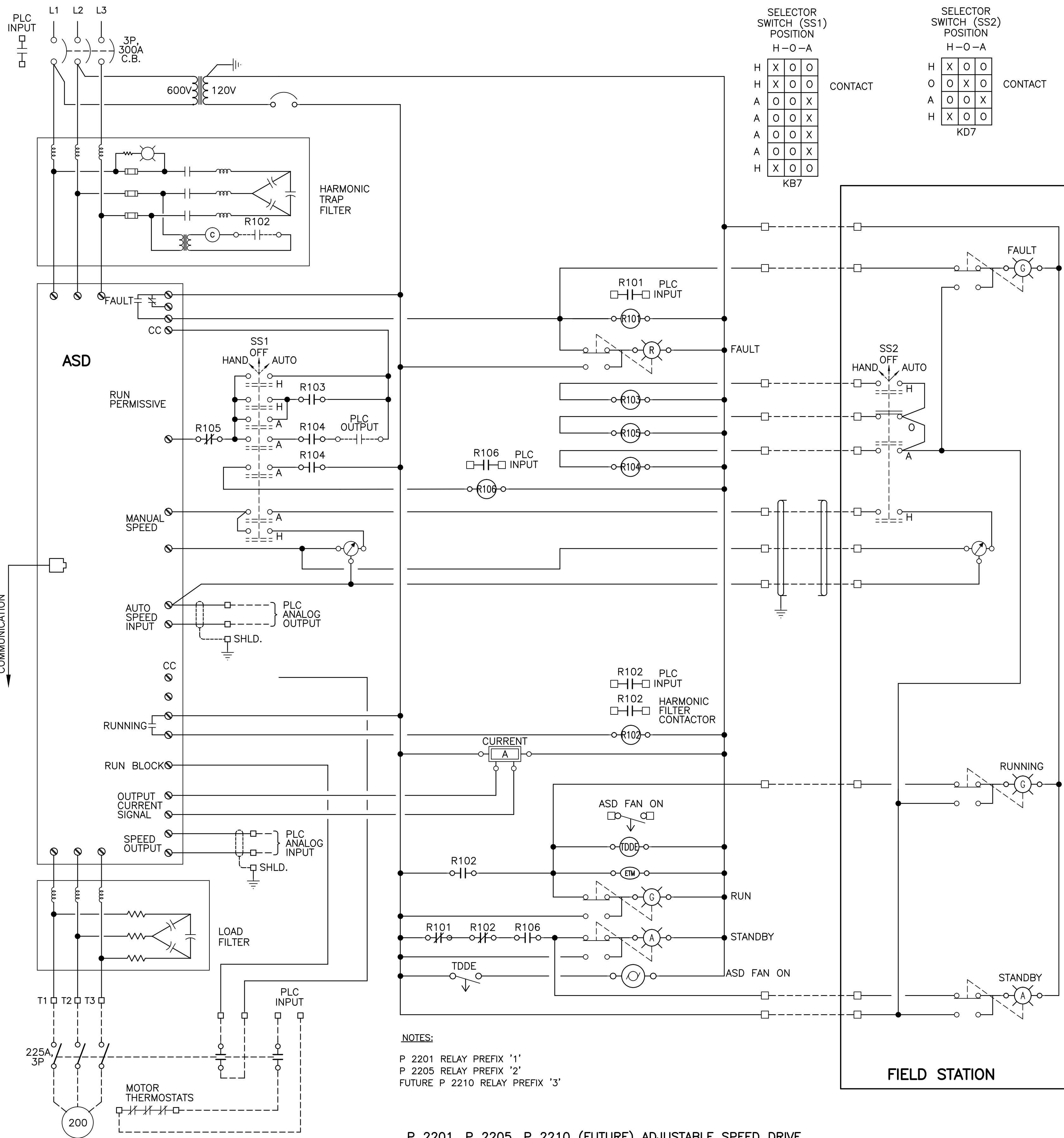


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PLOT: FULL 1:1													HALF 1:2												
AutoCAD DRAWING	REVISIONS	ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION	ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION	DESIGNED	MM	 Dayton & Knight Ltd. CONSULTING ENGINEERS #210-889 HARBOURSIDE DR., NORTH VANCOUVER, B.C. V7P 3S1 TEL.: (604) 990-4800 FAX: (604) 990-4805 www.dayton-knight.com	RESORT MUNICIPALITY OF WHISTLER RAINBOW PARK PUMP STATION MCC LAYOUT AND SINGLE LINE DIAGRAM	SCALE: N.T.S.							
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		B	JUL8/08	MM	MM	DR	ISSUED FOR CONSTRUCTION							CHECKED	DR			SHEET No.	E3	ISSUE C					
		C	JAN08/10	MM	MM	DR	RECORD DRAWING																		

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PLOT: FULL 1:1 HALF 1:2

AutoCAD
DRAWING
REVISIONS

ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION
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B	JUL8/08	MM	MM	DR	ISSUED FOR CONSTRUCTION
C	JAN08/10	MM	MM	DR	RECORD DRAWING

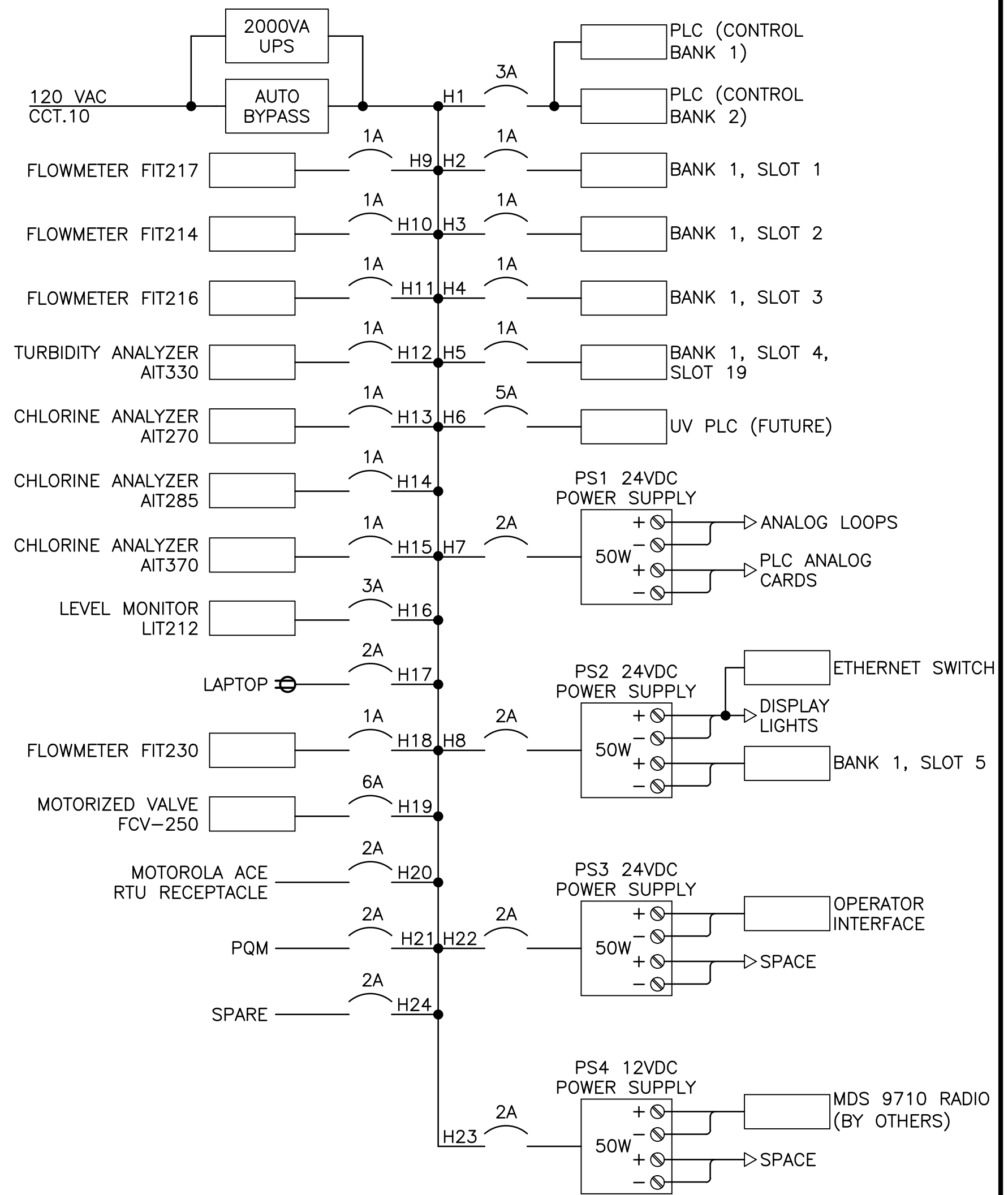
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DRAWN MM
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RESORT MUNICIPALITY OF WHISTLER
RAINBOW PARK PUMP STATION
DRIVE SCHEMATICS

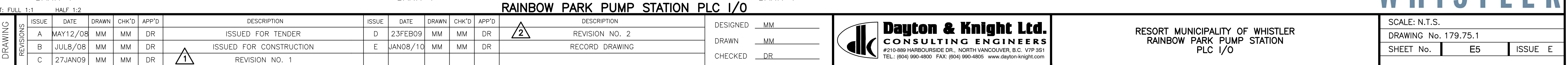
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DRAWING No. 179.75.1
SHEET No. E4 ISSUE C



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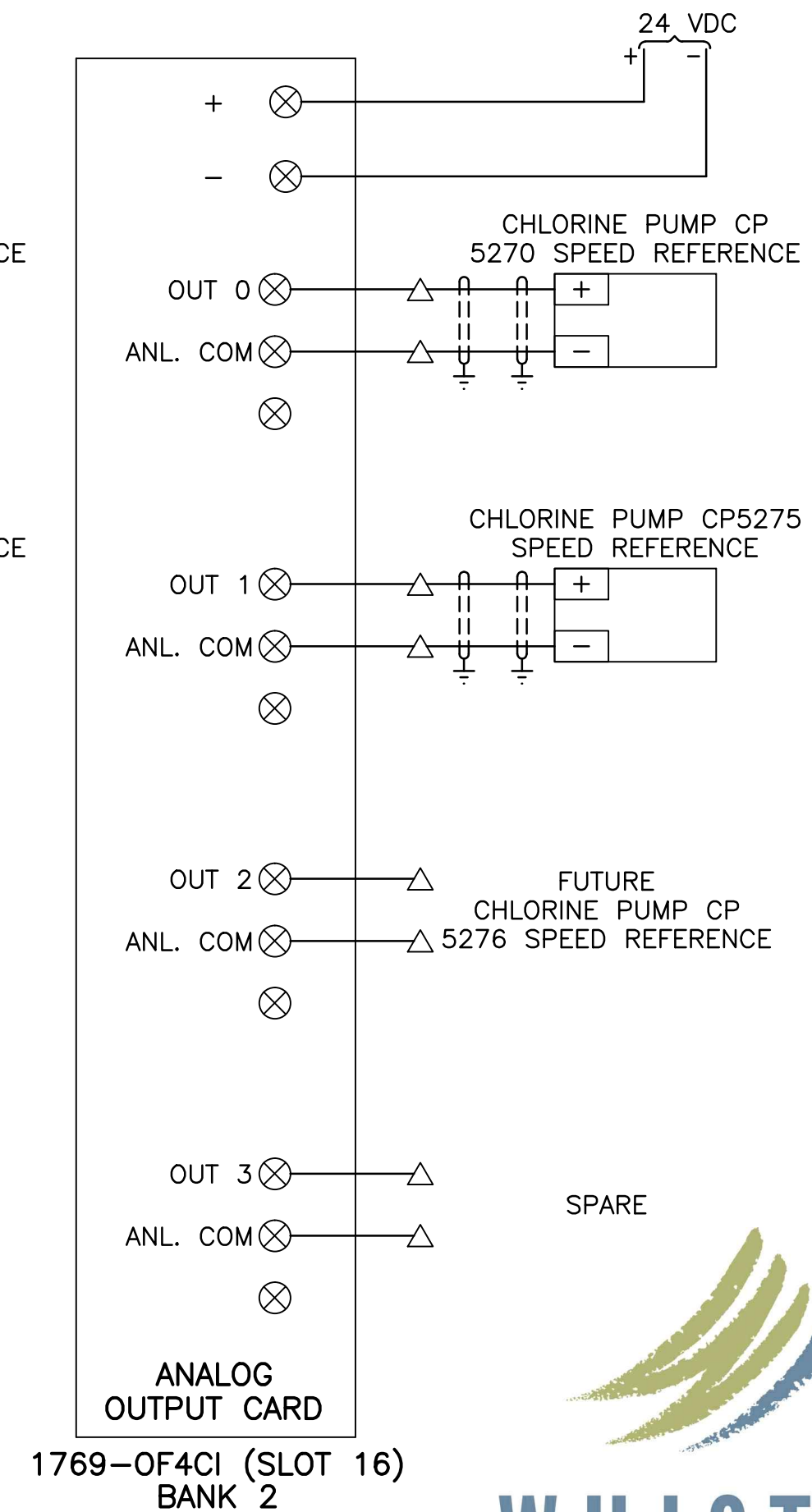
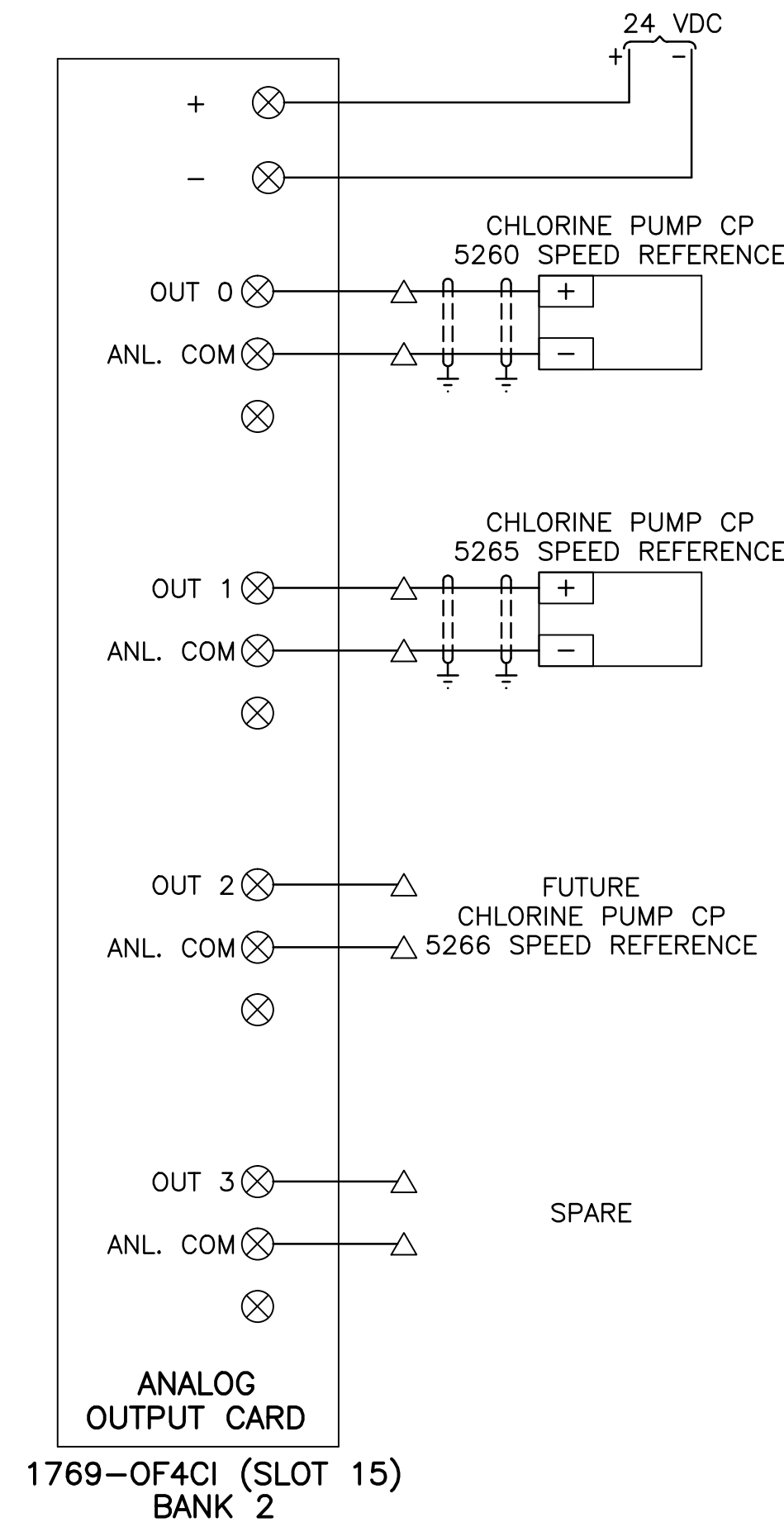
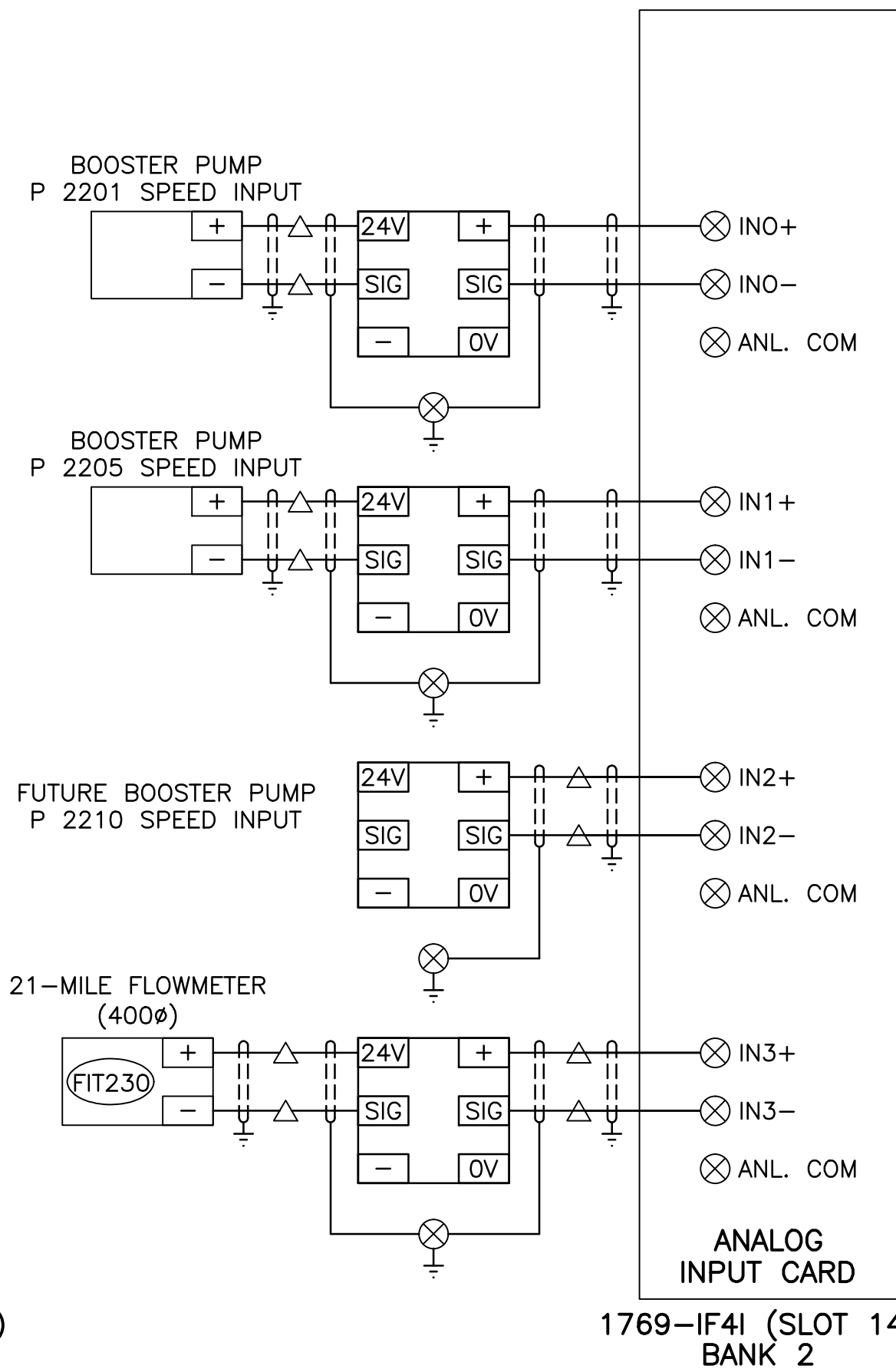
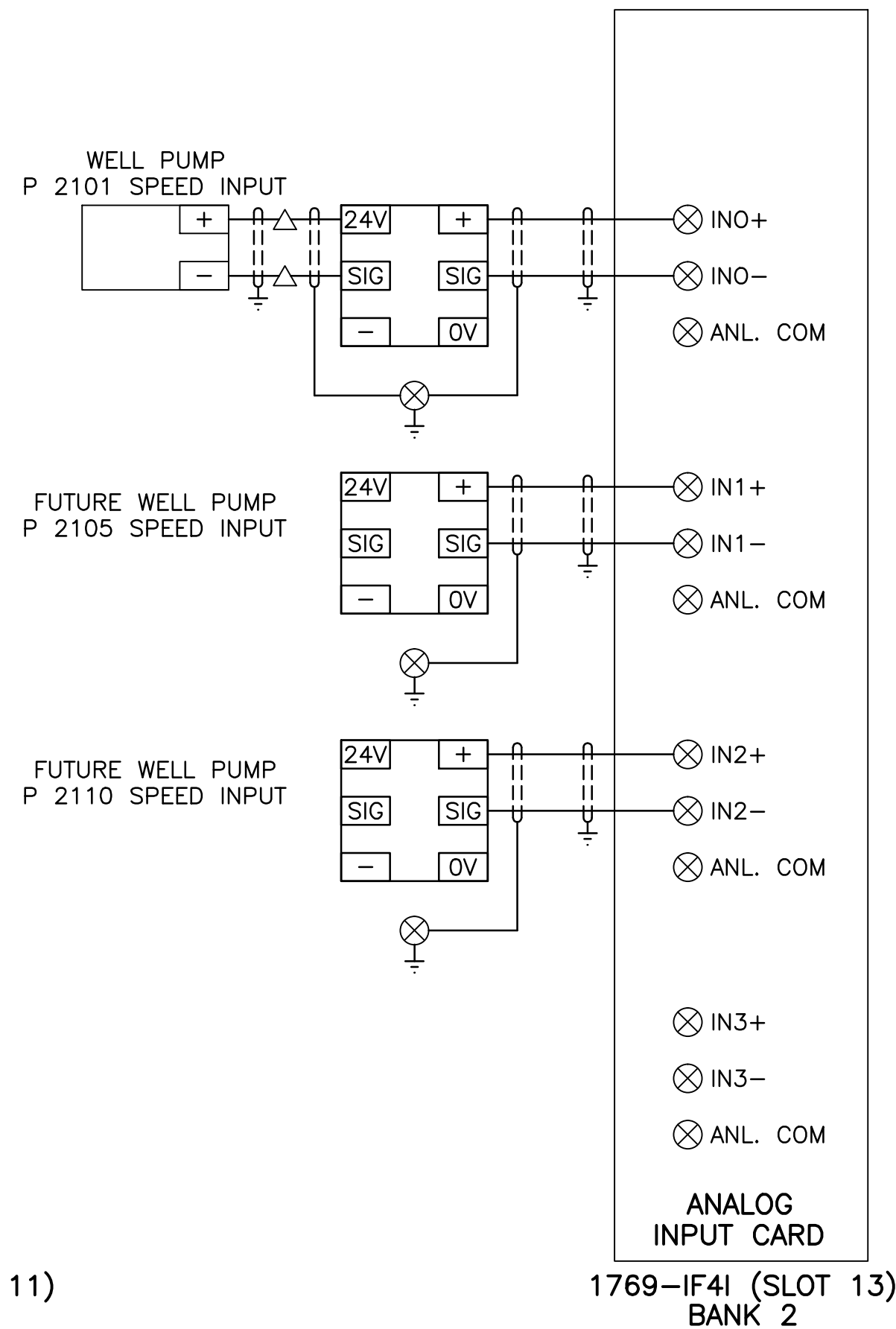
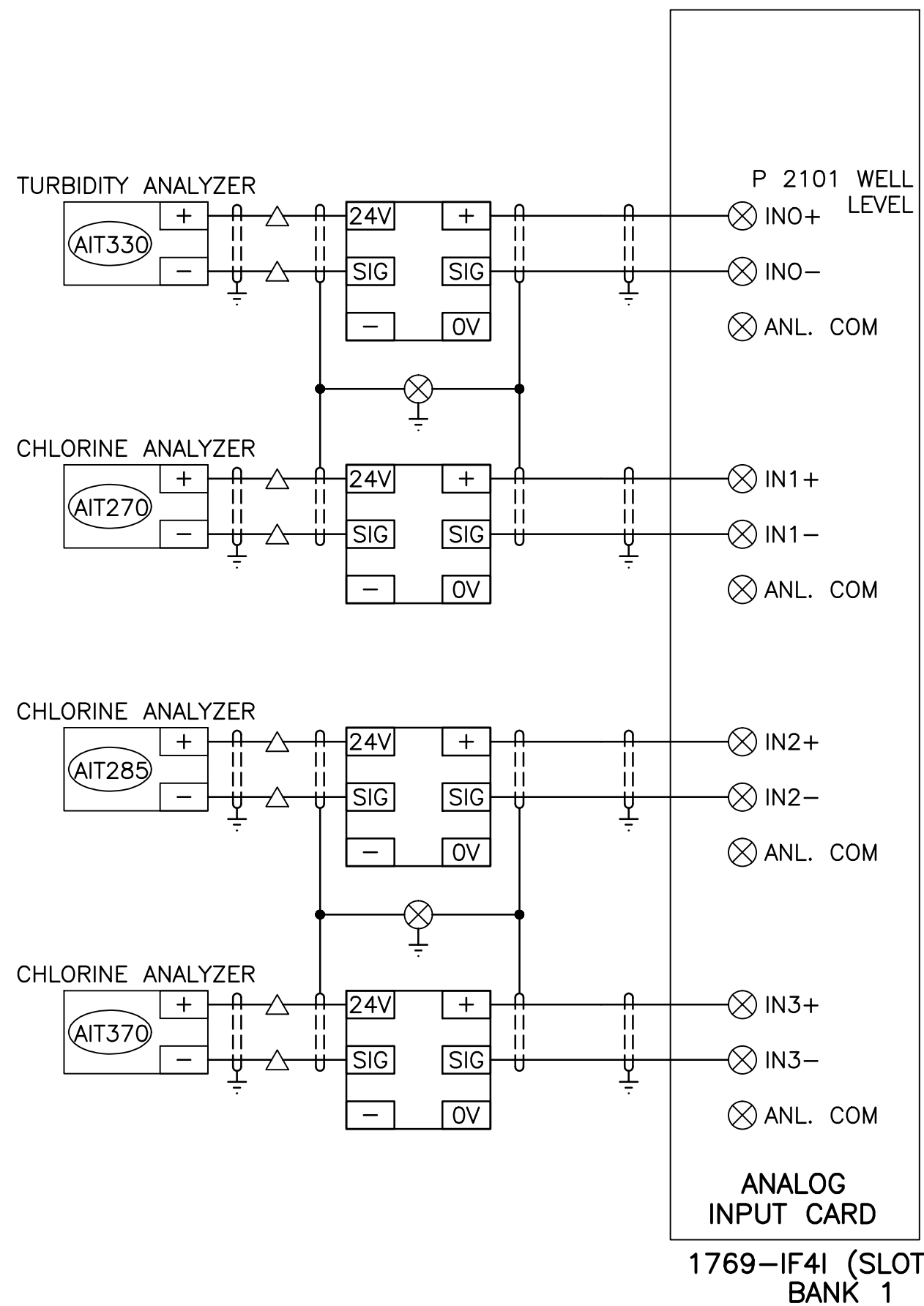
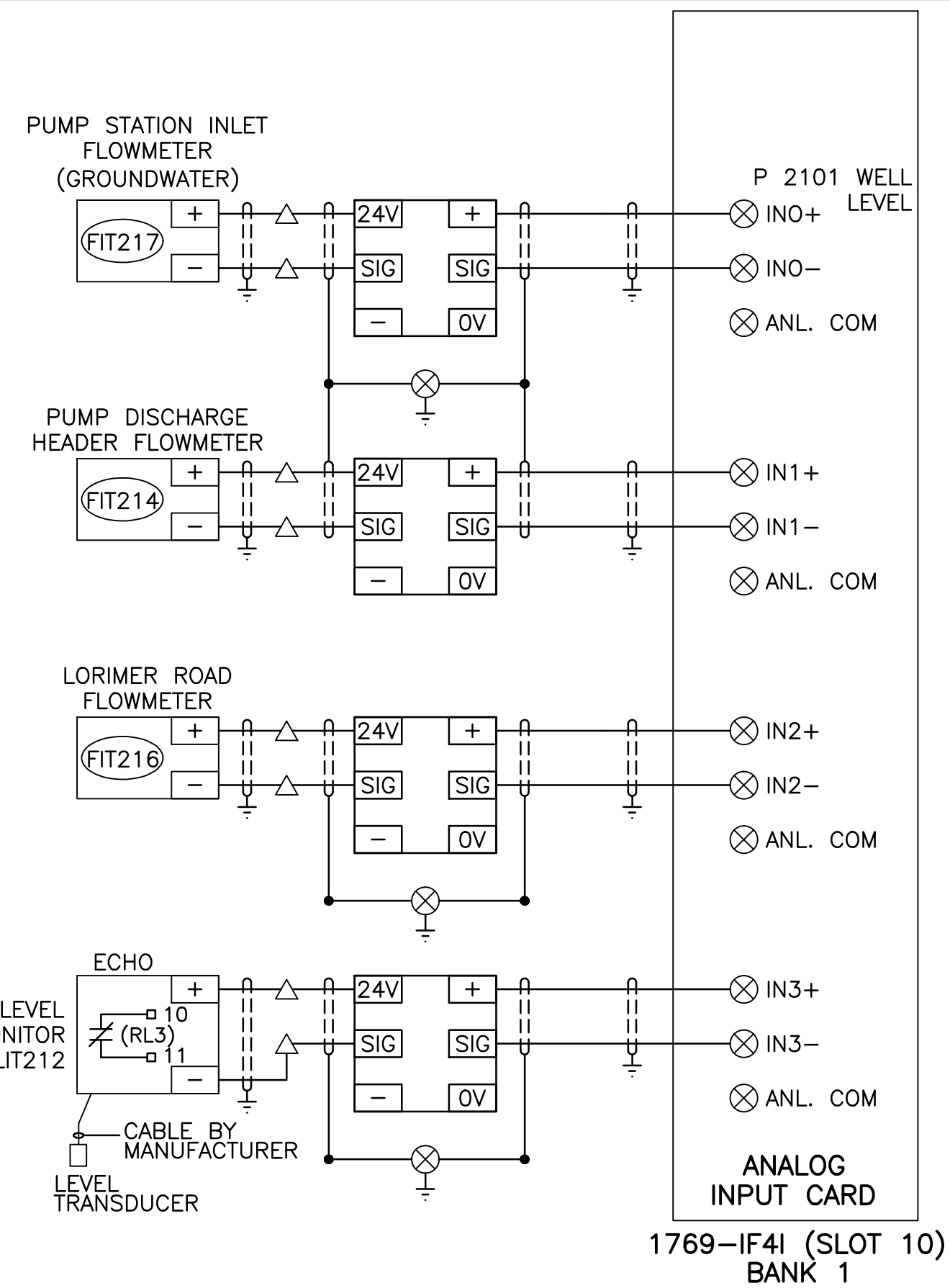
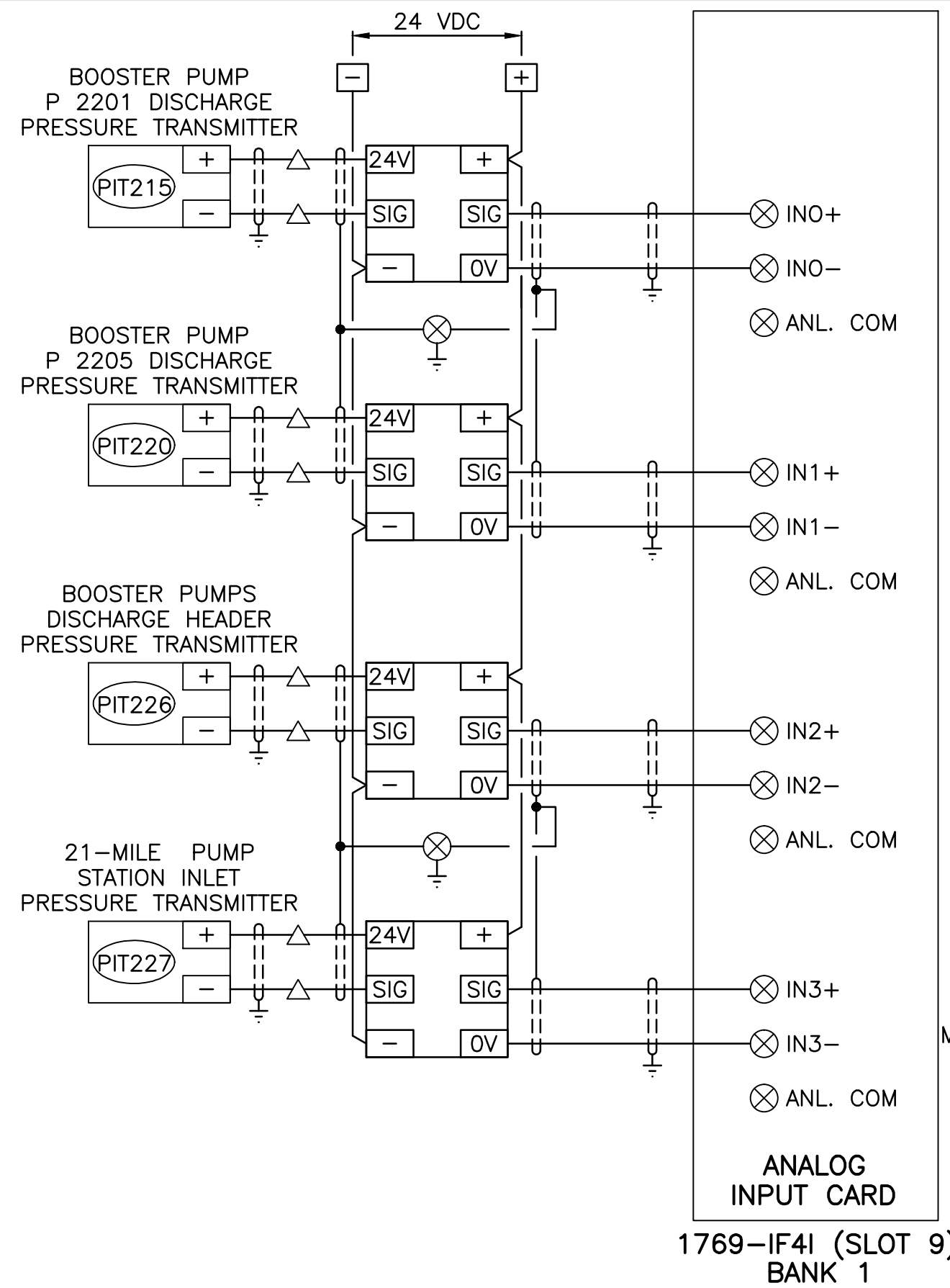
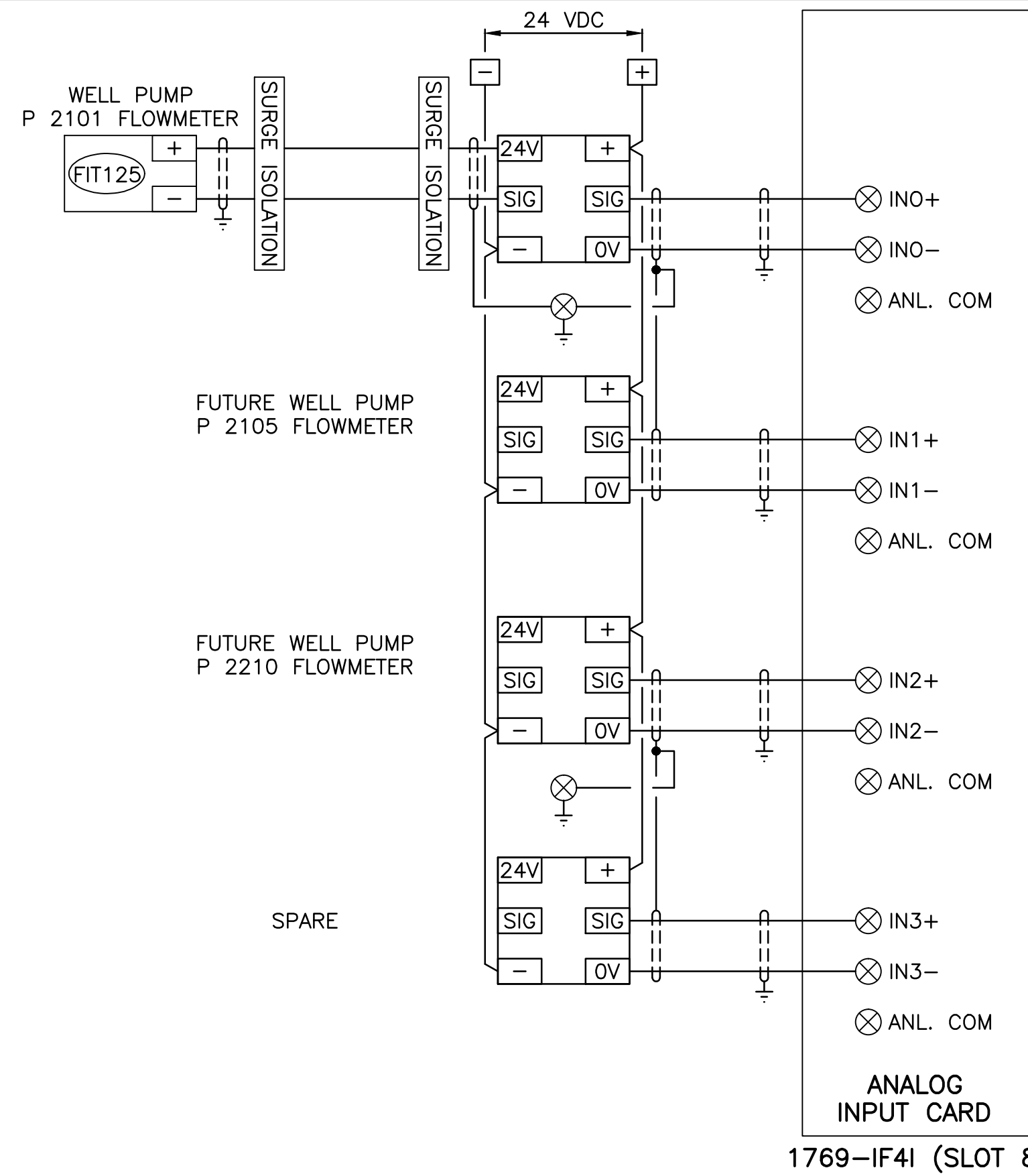
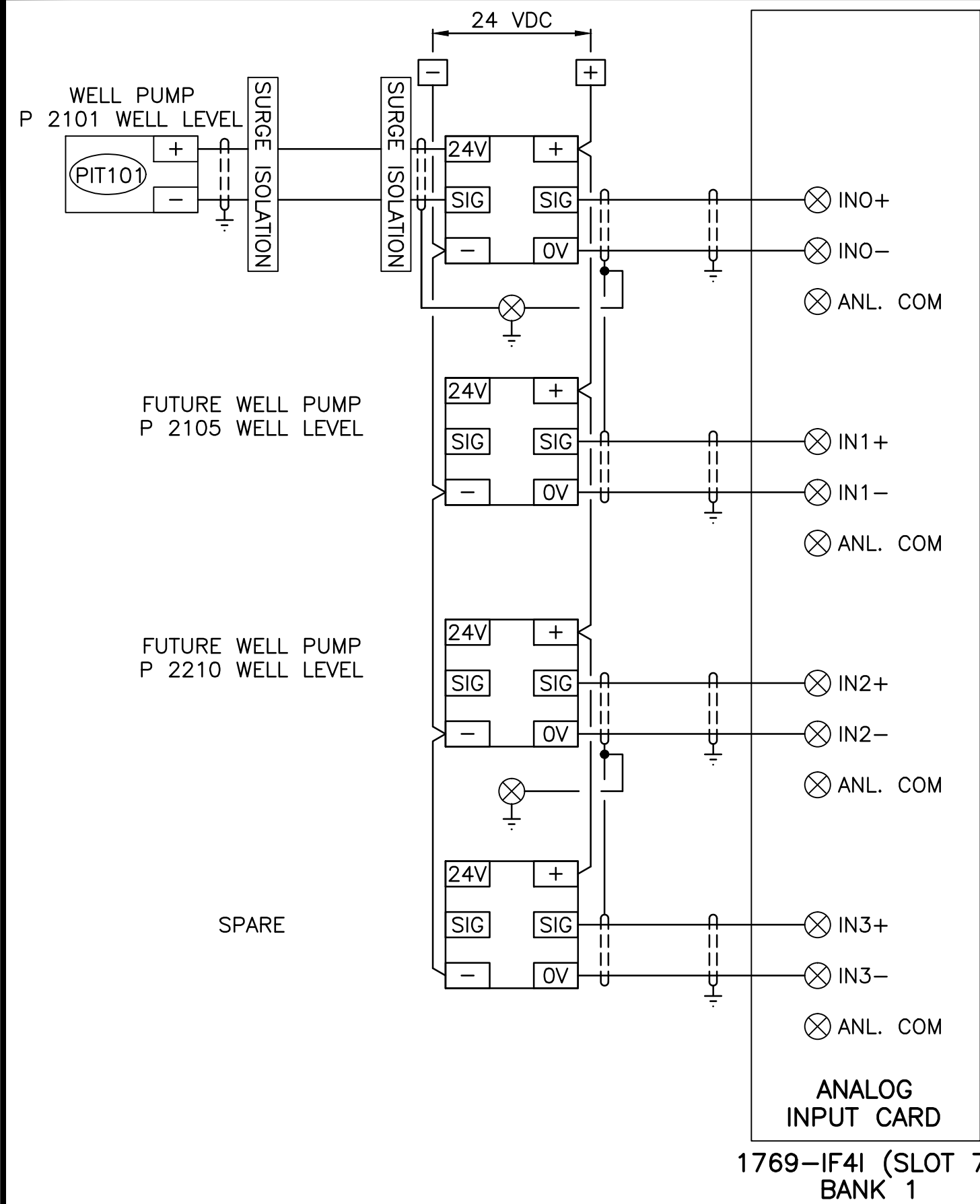


WHISTLER



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WHISTLER

PLC I/O

ISSUE					ISSUE					ISSUE				
DATE	DRAWN	CHK'D	APP'D	DESCRIPTION	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION
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B JUL8/08	MM	MM	DR	ISSUED FOR CONSTRUCTION										
C 27JAN09	MM	MM	DR	REVISION NO. 1										

AutoCAD

DRAWING

REVISIONS

DESIGNED

DRAWN

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RESORT MUNICIPALITY OF WHISTLER

RAINBOW PARK PUMP STATION

PLC I/O

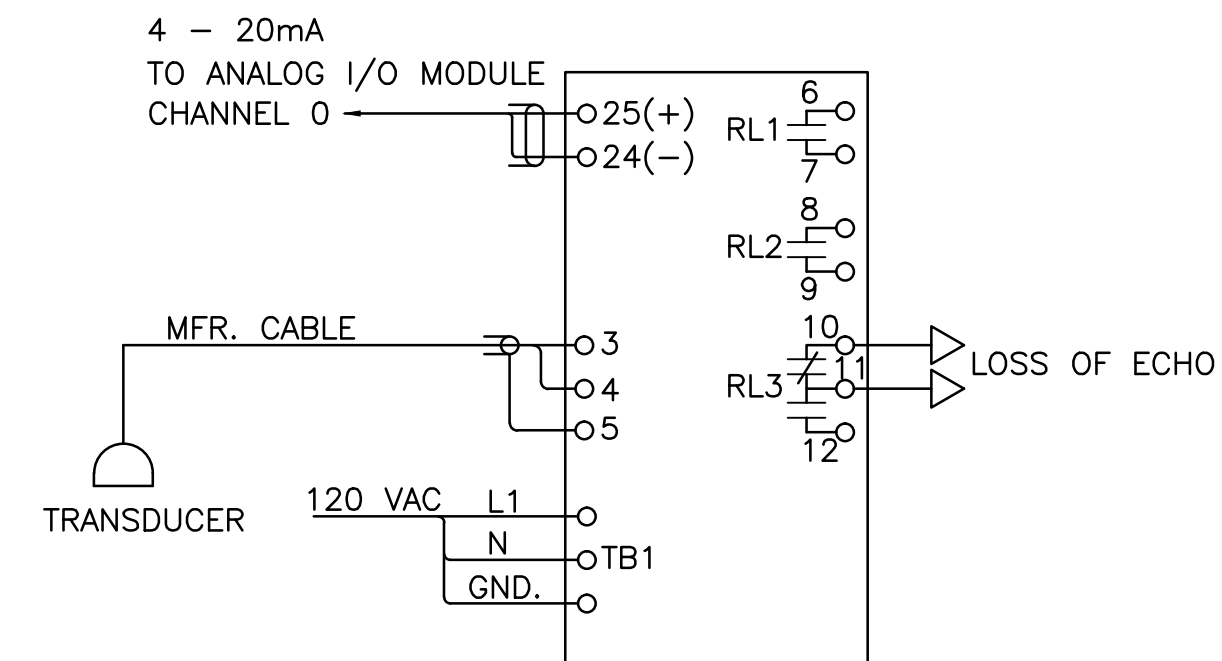
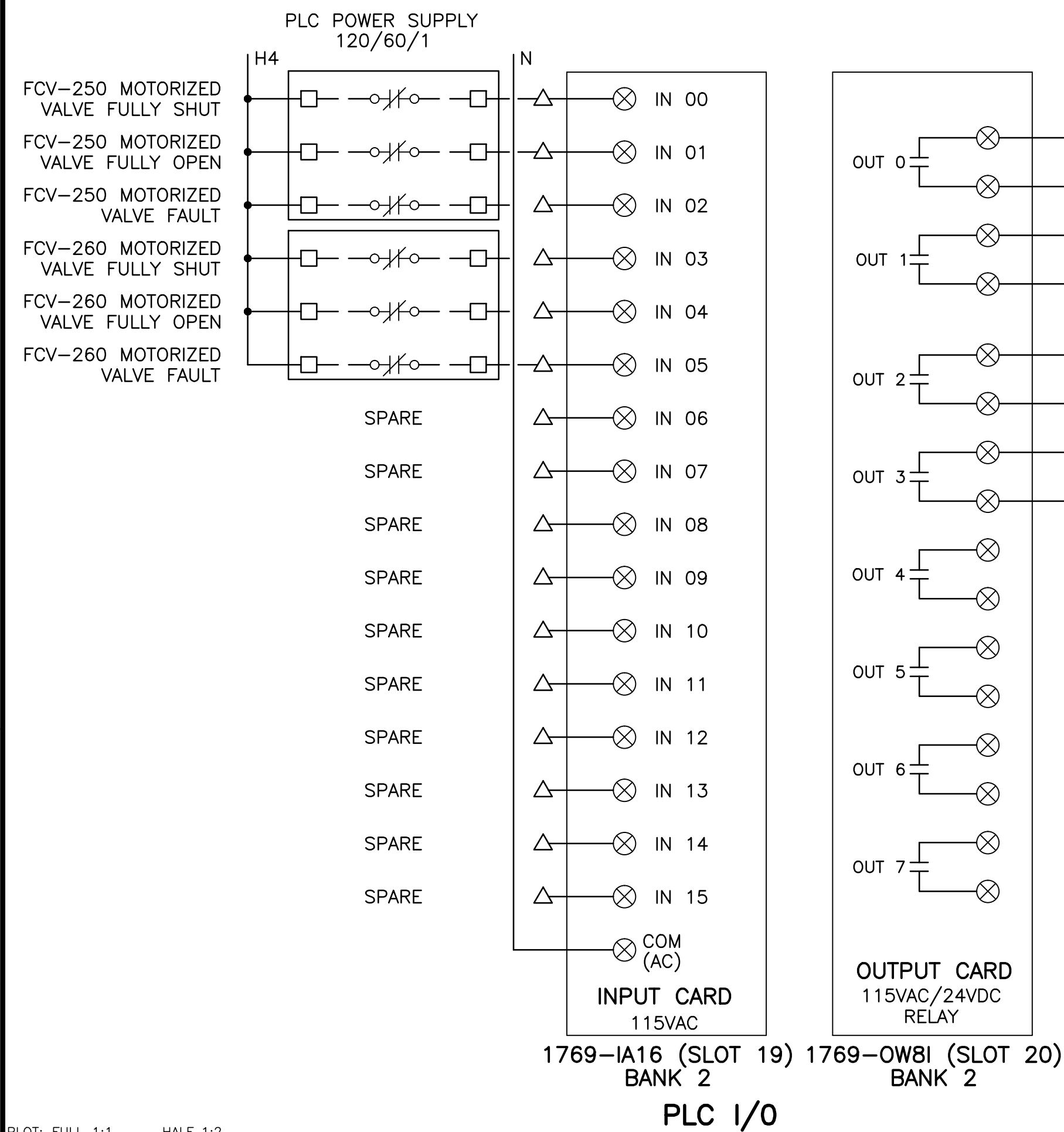
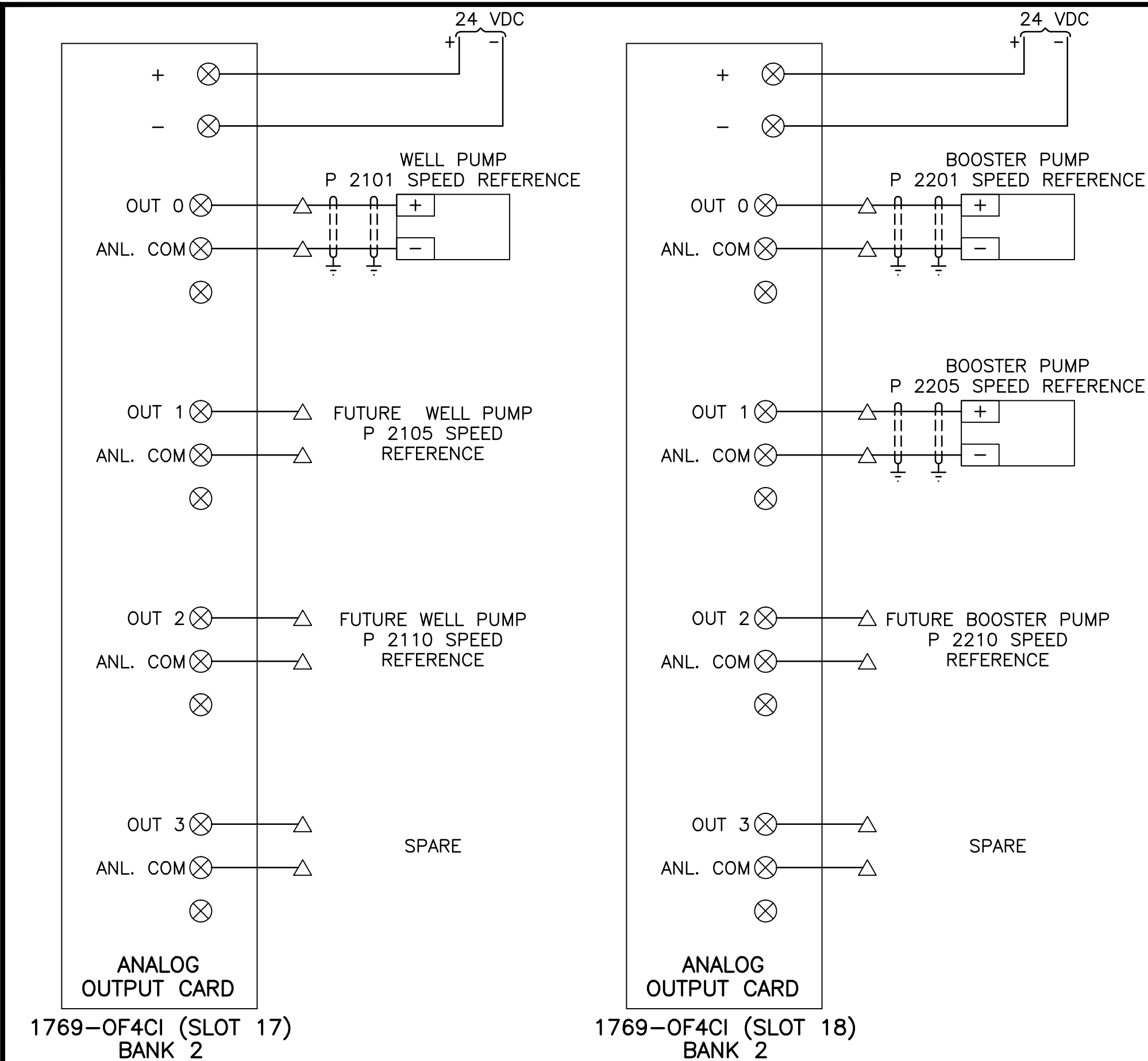
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DRAWING No. 179.75.1

SHEET No. E6

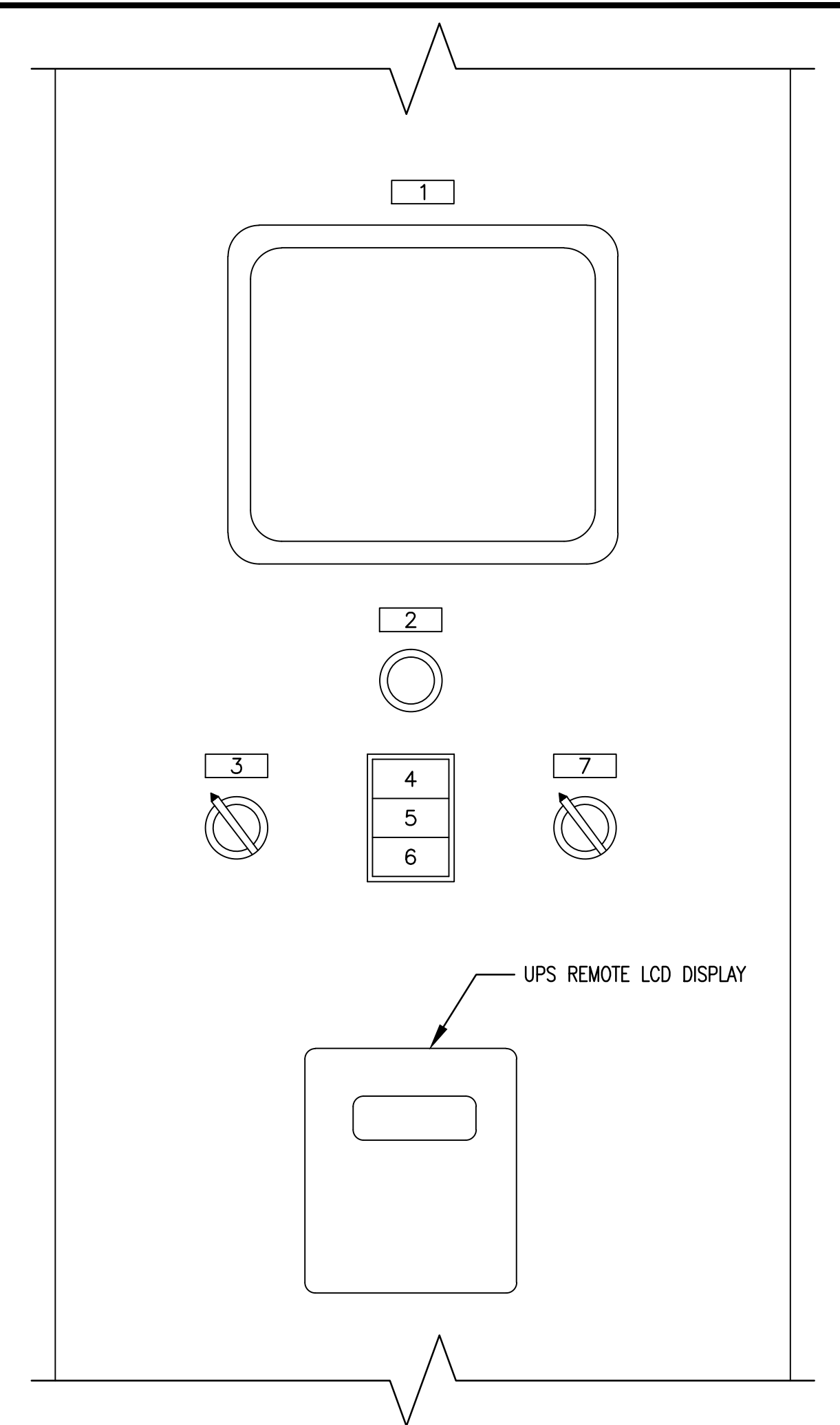
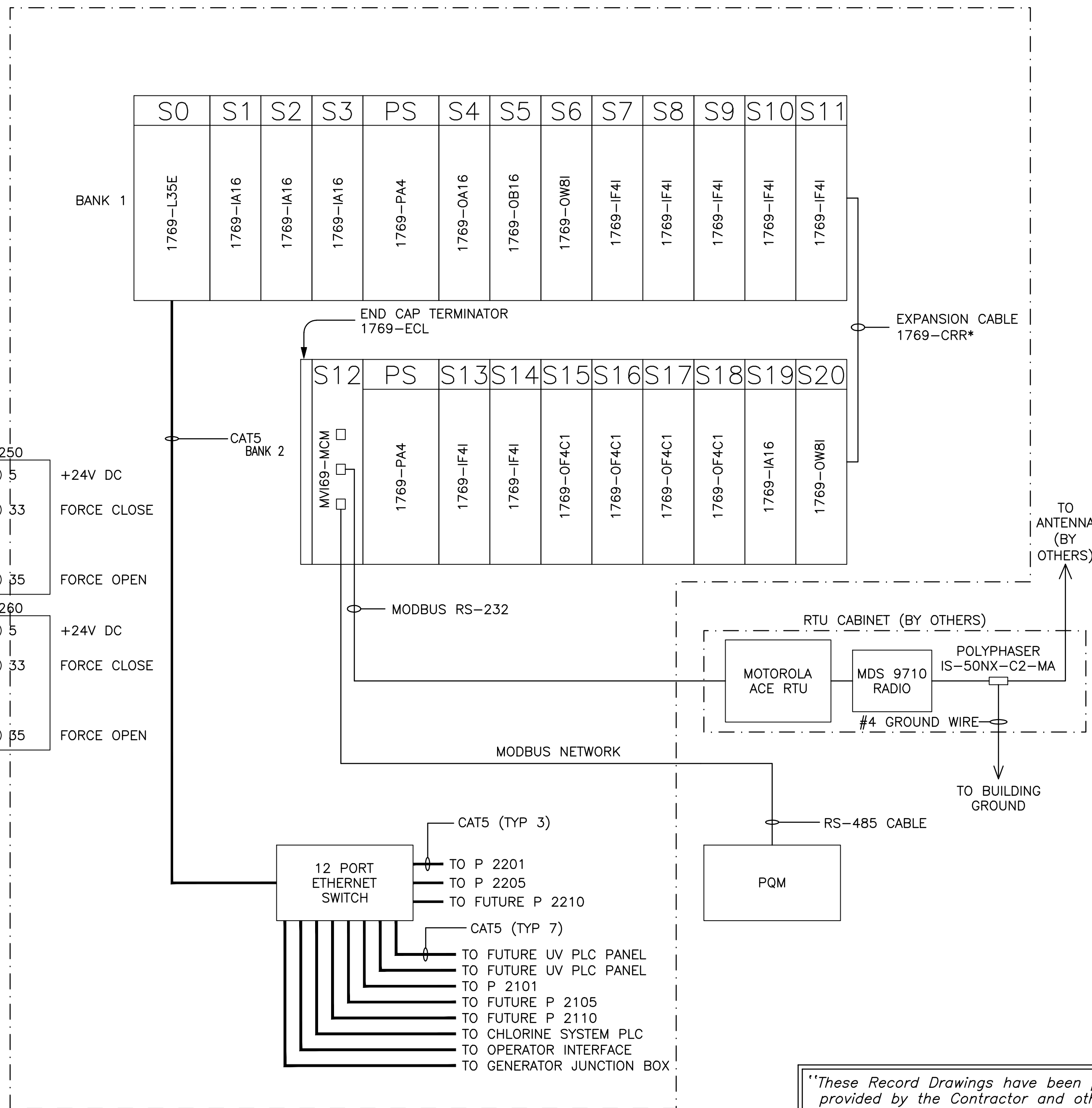
ISSUE D

FILE: P:\Records\WHISTLER\179-75-1\ELECTRICAL\179-75-1 E5 to E7.dwg Tab E7 11-01-14 dchen



CLEARWELL - MILLTRONICS LEVEL MONITOR SCHEMATIC

RAINBOW PARK MCC CONTROL SECTION



	NAMEPLATE LEGEND SCHEDULE	DEVICE
1	OPERATOR INTERFACE	GE TOUCHSCREEN
2	TEST/RESET	PUSH BUTTON (BLACK)
3	ALT-P 2101-P 2105-P 2110	4-POSITION SELECTOR SWITCH
4	POWER NORMAL	DISPLAY LIGHT, GREEN
5	COMMON ALARM	DISPLAY LIGHT, RED
6	PLC FAIL	DISPLAY LIGHT, RED
7	ALT-P 2101-P 2105-P 2110	4-POSITION SELECTOR SWITCH

CONTROL SECTION LAYOUT

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PLOT: FULL 1:1 HALF 1:2

ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION
A	MAY12/08	MM	MM	DR	ISSUED FOR TENDER
B	JUL8/08	MM	MM	DR	ISSUED FOR CONSTRUCTION
C	27JAN09	MM	MM	DR	REVISION NO. 1

ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION
D	23FEB09	MM	MM	DR	REVISION NO. 2
E	JAN08/10	MM	MM	DR	RECORD DRAWING

DESIGNED	MM
DRAWN	MM
CHECKED	DR

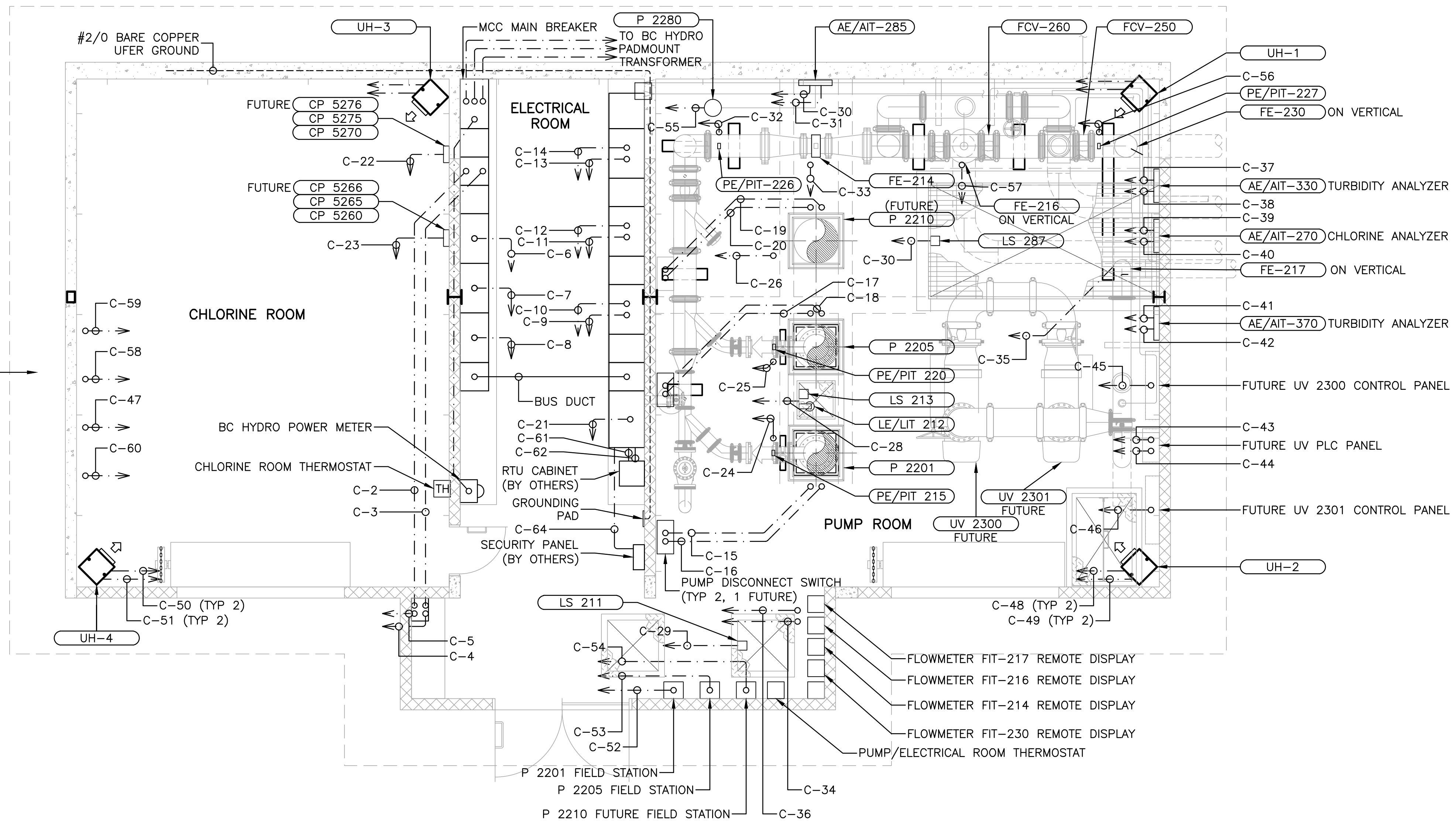
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RESORT MUNICIPALITY OF WHISTLER
RAINBOW PARK PUMP STATION
PLC I/O AND LAYOUT

SCALE: N.T.S.
DRAWING No. 179.75.1
SHEET No. E7 ISSUE E

FILE: P:\Records\WHISTLER\179-75-1\ELECTRICAL\179-75-1 E8 to E11.dwg Tab E8 11-01-14 dden

LOCATION OF DUCTS TO BE CONFIRMED
WITH CHLORINE SYSTEM SHOP DRAWINGS



POWER AND CONTROL LAYOUT

SCALE: 1:50

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PLOT: FULL 1:1 HALF 1:2

ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION	ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION
A	MAY12/08	MM	MM	DR	ISSUED FOR TENDER	D	27JAN09	MM	MM	DR	REVISION NO. 1
B	JUL8/08	MM	MM	DR	ISSUED FOR CONSTRUCTION	E	23FEB09	MM	MM	DR	REVISION NO. 2
C	AUG29/08	MM	MM	DR	RFI #1 -- ELECTRICAL	F	JAN08/10	MM	MM	DR	RECORD DRAWING

DESIGNED MM
DRAWN MM
CHECKED DR

Dayton & Knight Ltd.
CONSULTING ENGINEERS
#210-880 HARBOURSIDE DR., NORTH VANCOUVER, B.C. V7P 3S1
TEL: (604) 990-4800 FAX: (604) 990-4805 www.dayton-knight.com

RESORT MUNICIPALITY OF WHISTLER
RAINBOW PARK PUMP STATION
POWER AND CONTROL LAYOUT

SCALE: 1:25
DRAWING No. 179.75.1
SHEET No. **E8** ISSUE **F**



FILE: P:\Records\WHISTLER\179-75-1\ELECTRICAL\179-75-1_EB to E11.dwg Tab EB 11-01-14 dchen

CABLE NO.	RACEWAY & CONDUCTORS	FROM	TO
C-1	3 x 100ø DUCTS	BC HYDRO PAD MOUNT TRANSFORMER	MCC SECTION 1A
C-2	155C-3#600+BOND+2#14	MCC SECTION 3 - TRANSFER SWITCH	GENSET RECEPTACLE
C-3	155C-3#600+BOND	MCC SECTION 3 - TRANSFER SWITCH	GENSET RECEPTACLE
C-4	27C-5#12+BOND	MCC SECTION 9 - PANELBOARD	GENSET RECEPTACLE
C-5	27C-RS-485 COMM. CABLE	MCC SECTION 17 - CONTROL SECTION	GENSET RECEPTACLE
C-6	103C	MCC SECTION 5	JUNCTION BOX "1" (FUTURE P 2110 WELL PUMP POWER)
C-7	103C-3#350 BOND	MCC SECTION 6	JUNCTION BOX "1" (FUTURE P 2105 WELL PUMP POWER)
C-8	103C-3#350 BOND	MCC SECTION 7	JUNCTION BOX "1" (P 2101 WELL PUMP POWER)
C-9	78C-3#250+BOND	MCC SECTION 14	P 2201 DISCONNECT SWITCH
C-10	27C-4#12	MCC SECTION 14	P 2201 DISCONNECT SWITCH
C-11	78C-3#250+BOND	MCC SECTION 12	P 2205 DISCONNECT SWITCH
C-12	27C-4#12	MCC SECTION 12	P 2205 DISCONNECT SWITCH
C-13	78C	MCC SECTION 10	FUTURE P 2210 DISCONNECT SWITCH
C-14	27C	MCC SECTION 10	FUTURE P 2210 DISCONNECT SWITCH
C-15	78C-3#250+BOND	P 2201 DISCONNECT SWITCH	P 2201
C-16	27C-2#12	P 2201 DISCONNECT SWITCH	P 2201
C-17	78C-3#250+BOND	P 2205 DISCONNECT SWITCH	P 2205
C-18	27C-2#12	P 2205 DISCONNECT SWITCH	P 2205
C-19	78C	FUTURE P 2210 DISCONNECT SWITCH	FUTURE P 2210
C-20	27C	FUTURE P 2210 DISCONNECT SWITCH	FUTURE P 2210
C-21	78C-2x BELDEN#1049A	MCC SECTION 17 - CONTROL SECTION	COMM. JUNCTION BOX "1" (1x P 2101, 1x P 2105 (FUTURE) WELL PUMP LEVEL TRANSDUCER & FLOW)
C-22	27C-2x BELDEN#8760 + 4#14	CP 5260, 5265 & 5266 COMMUNICATION JUNCTION BOX	MCC SECTION 17 - CONTROL SECTION (PUMP SPEED INPUTS + PUMP STARTS)
C-23	27C-2x BELDEN#8760 + 8#14	CP 5270, 5275 & 5276 COMMUNICATION JUNCTION BOX	MCC SECTION 17 - CONTROL SECTION (PUMP SPEED INPUTS + PUMP STARTS & FAULT INDICATIONS)
C-24	21C-2#14+BELDEN#8760	MCC SECTION 17 - CONTROL SECTION	PE/PIT-215
C-25	21C-2#14+BELDEN#8760	MCC SECTION 17 - CONTROL SECTION	PE/PIT-220
C-26	21C	MCC SECTION 17 - CONTROL SECTION	FUTURE PE/PIT-225
C-27	21C-2#14	MCC SECTION 17 - CONTROL SECTION	LS-287
C-28	27C-2#14 + MANUFACTURER CABLE (ULTRASONIC TRANSDUCER)	MCC SECTION 17 - CONTROL SECTION	LS-213 (FLOAT) & LE/LIT-212 (ULTRASONIC TRANSDUCER)
C-29	21C-2#14	MCC SECTION 17 - CONTROL SECTION	LS-211
C-30	21C-BELDEN #8760	MCC SECTION 17 - CONTROL SECTION	AE/AIT-285
C-31	21C-2x 2#12+BOND	MCC SECTION 17 - CONTROL SECTION	AE/AIT-285 (FROM UPS) & FCV-260 (FROM PANELBOARD)
C-32	21C-BELDEN #8760	MCC SECTION 17 - CONTROL SECTION	PE/PIT-226
C-33	21C-MANUFACTURER CABLE	FE-214	FIT-214 FLOWMETER REMOTE DISPLAY
C-34	41C-3x 2#12+BOND	FIT-214, FIT-216 & FIT-217 FLOWMETER REMOTE DISPLAYS	MCC SECTION 17 - CONTROL SECTION
C-35	21C-MANUFACTURER CABLE	FE-217	FIT-217 FLOWMETER REMOTE DISPLAY
C-36	41C-3x BELDEN#8760	FIT-214, FIT-216 & FIT-217 FLOWMETER REMOTE DISPLAYS	MCC SECTION 17 - CONTROL SECTION
C-37	21C-2x 2#12+BOND	MCC SECTION 17 - CONTROL SECTION	AE/AIT-330 & FIT-230 FLOWMETER REMOTE DISPLAY
C-38	41C-2x BELDEN#8760+10#14	MCC SECTION 17 - CONTROL SECTION	AE/AIT-330 (ANALOG), FIT-230 FLOWMETER REMOTE DISPLAY (ANALOG) & FCV-250 CONTROL (DISCRETE)
C-39	21C-2x 2#12+BOND	MCC SECTION 17 - CONTROL SECTION	AE/AIT-270 (FROM UPS) & FCV-250 (FROM UPS)
C-40	41C-BELDEN#8760	MCC SECTION 17 - CONTROL SECTION	AE/AIT-270
C-41	21C-2#12+BOND	MCC SECTION 17 - CONTROL SECTION	AE/AIT-370
C-42	41C-BELDEN#8760	MCC SECTION 17 - CONTROL SECTION	AE/AIT-370
C-43	27C-2#12+BOND	MCC SECTION 17 - CONTROL SECTION	FUTURE UV PLC PANEL
C-44	21C-CAT5	MCC SECTION 17 - CONTROL SECTION	FUTURE UV PLC PANEL
C-45	53C	MCC SECTION 4	FUTURE UV 2300 CONTROL PANEL
C-46	53C	MCC SECTION 8	FUTURE UV 2301 CONTROL PANEL
C-47	27C-CAT5+6#14	CHLORINE SYSTEM PLC	MCC SECTION 17 - CONTROL SECTION
C-48	21C-2#14	PUMP ROOM UNIT HEATERS	PUMP ROOM THERMOSTAT
C-49	27C-3#12+BOND	PUMP ROOM UNIT HEATERS	MCC SECTION 4
C-50	21C-2#14	CHLORINE ROOM THERMOSTAT	CHLORINE ROOM UNIT HEATERS
C-51	27C-3#12+BOND	MCC SECTION 4	CHLORINE ROOM UNIT HEATERS
C-52	41C-8#14+BELDEN#9367	MCC SECTION 14	P 2201 FIELD STATION
C-53	41C-8#14+BELDEN#9367	MCC SECTION 12	P 2205 FIELD STATION
C-54	41C-8#14+BELDEN#9367	MCC SECTION 10	P 2210 FIELD STATION
C-55	21C-4#14	P 2280	MCC SECTION 17 - CONTROL SECTION
C-56	27C-BELDEN#8760 + 10#14	MCC SECTION 17 - CONTROL SECTION	PE/PIT-227 (ANALOG) & FCV-260 CONTROL (DISCRETE)
C-57	21C-MANUFACTURER CABLE	FE-216	FIT-216 FLOWMETER REMOTE DISPLAY
C-58	53C-3#6+BOND	CHLORINE SYSTEM RECTIFIER	MCC SECTION 4
C-59	27C-3#10+NEUTRAL+BOND	CHLORINE SYSTEM CONTROL PANEL	MCC SECTION 9 - PANELBOARD
C-60	63C-2#4+BOND	CHLORINE SYSTEM WATER HEATER	MCC SECTION 9 - PANELBOARD
C-61	53C-2x 2#12+BOND	MCC SECTION 17 - CONTROL SECTION	RTU CABINET (RTU & RADIO POWER)
C-62	53C-RS232 COMM CABLE	MCC SECTION 17 - CONTROL SECTION	RTU CABINET
C-63	27C-MANUFACTURER CABLE	FE-230	FE-230 REMOTE DISPLAY
C-64	27C-12#14	MCC SECTION 17 - CONTROL SECTION	SECURITY PANEL

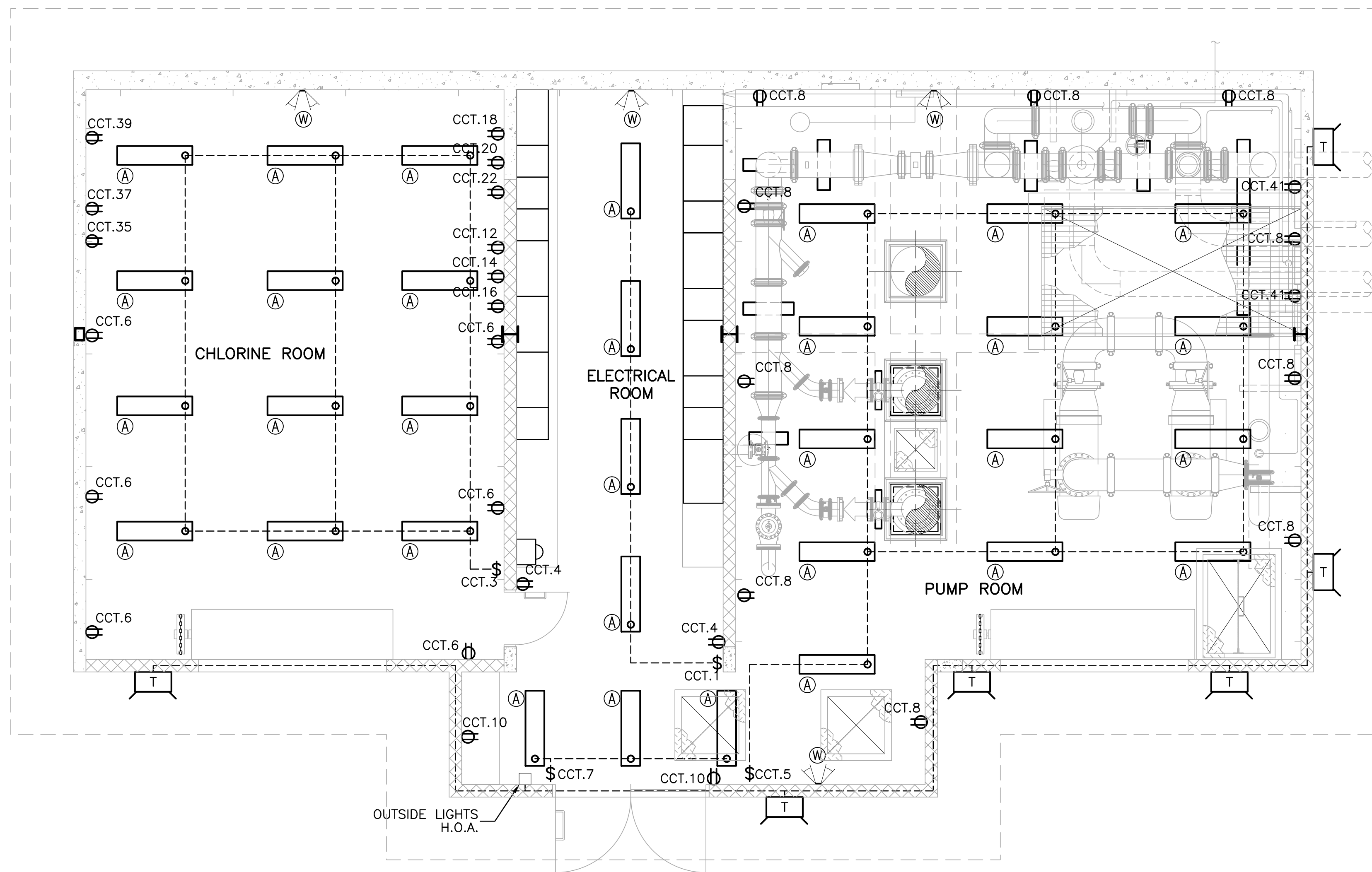
"These Record Drawings have been prepared based on information provided by the Contractor and others. Dayton & Knight Ltd. has not verified the accuracy or completeness of the information provided to them and does not warrant the accuracy or completeness of these Record Drawings. Users of these Record Drawings assume all risk of loss resulting from their use."

PLOT: FULL 1:1 HALF 1:2

AutoCAD DRAWING	REVISIONS	ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION	ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION	DESIGNED	MM		Dayton & Knight Ltd. CONSULTING ENGINEERS #210-880 HARBOURSIDE DR., NORTH VANCOUVER, B.C. V7P 3S1 TEL.: (604) 990-4800 FAX: (604) 990-4805 www.dayton-knight.com	RESORT MUNICIPALITY OF WHISTLER RAINBOW PARK PUMP STATION POWER AND CONTROL SCHEDULE	SCALE: NTS	
		A	MAY12/08	MM	MM	DR	ISSUED FOR TENDER	D	23FEB09	MM	MM	DR	2 REVISION NO. 2	DRAWN	MM				DRAWING No. 179.75.1	
		B	JUL8/08	MM	MM	DR	ISSUED FOR CONSTRUCTION	E	JAN08/10	MM	MM	DR	RECORD DRAWING	CHECKED	DR				SHEET No.	E9
		C	27JAN09	MM	MM	DR	1 REVISION NO. 1													



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UTILITY AND LIGHTING LAYOUT

SCALE: 1:50

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		C	AUG29/08	MM	MM	DR	RFI #1 -- ELECTRICAL								



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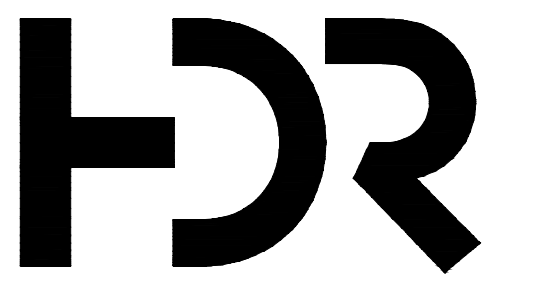
RESORT MUNICIPALITY OF WHISTLER
RAINBOW PARK PUMP STATION
UTILITY AND LIGHTING LAYOUT

SCALE: 1:25		
DRAWING No. 179.75.1		
SHEET No.	E10	ISSUE D





WHISTLER



Contract Drawings For

P280 CHLORINATION SYSTEM UPGRADES

DETAILED DESIGN

RECORD DRAWINGS

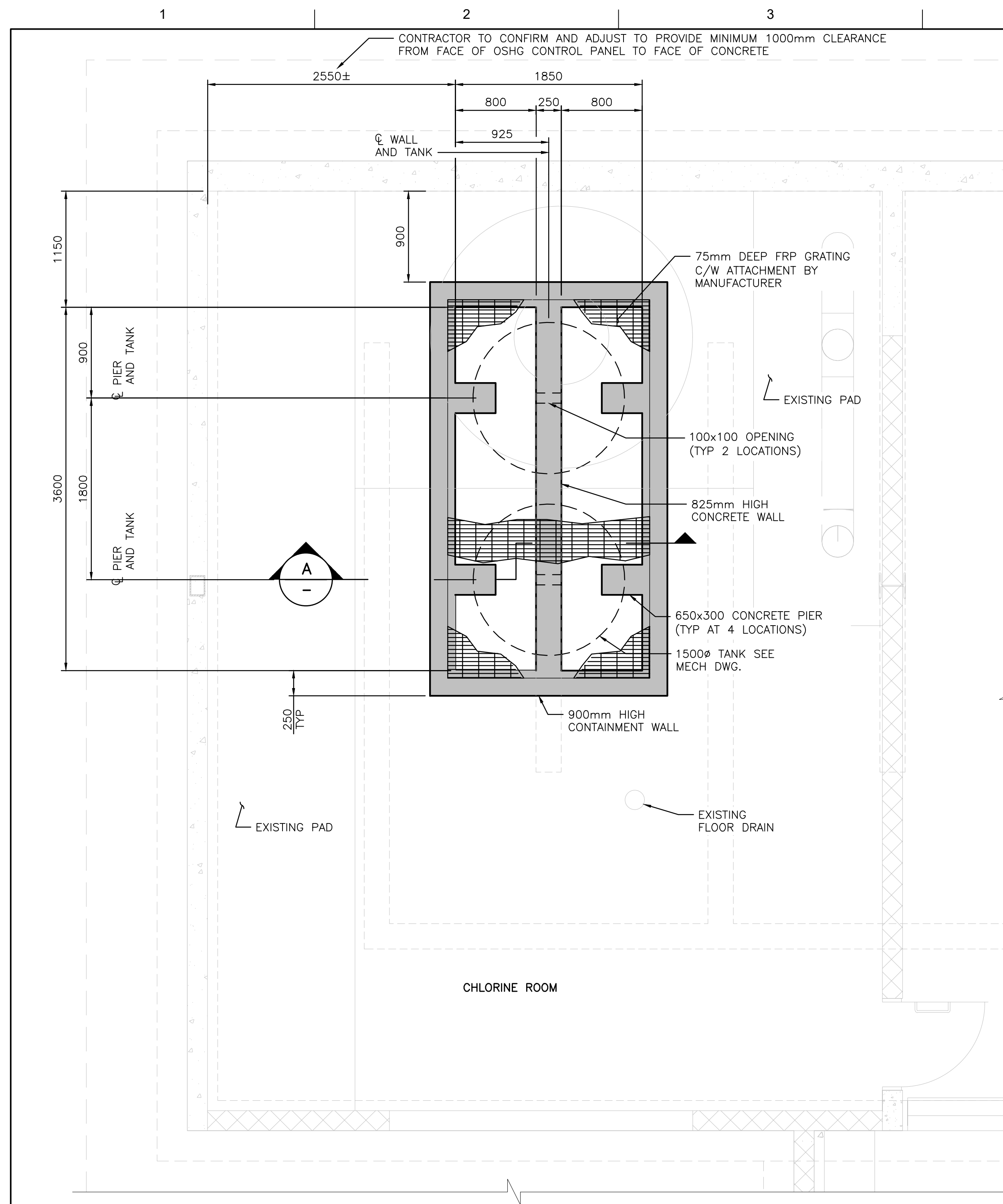
Project No.
10224999

WHISTLER, BC
December, 2020

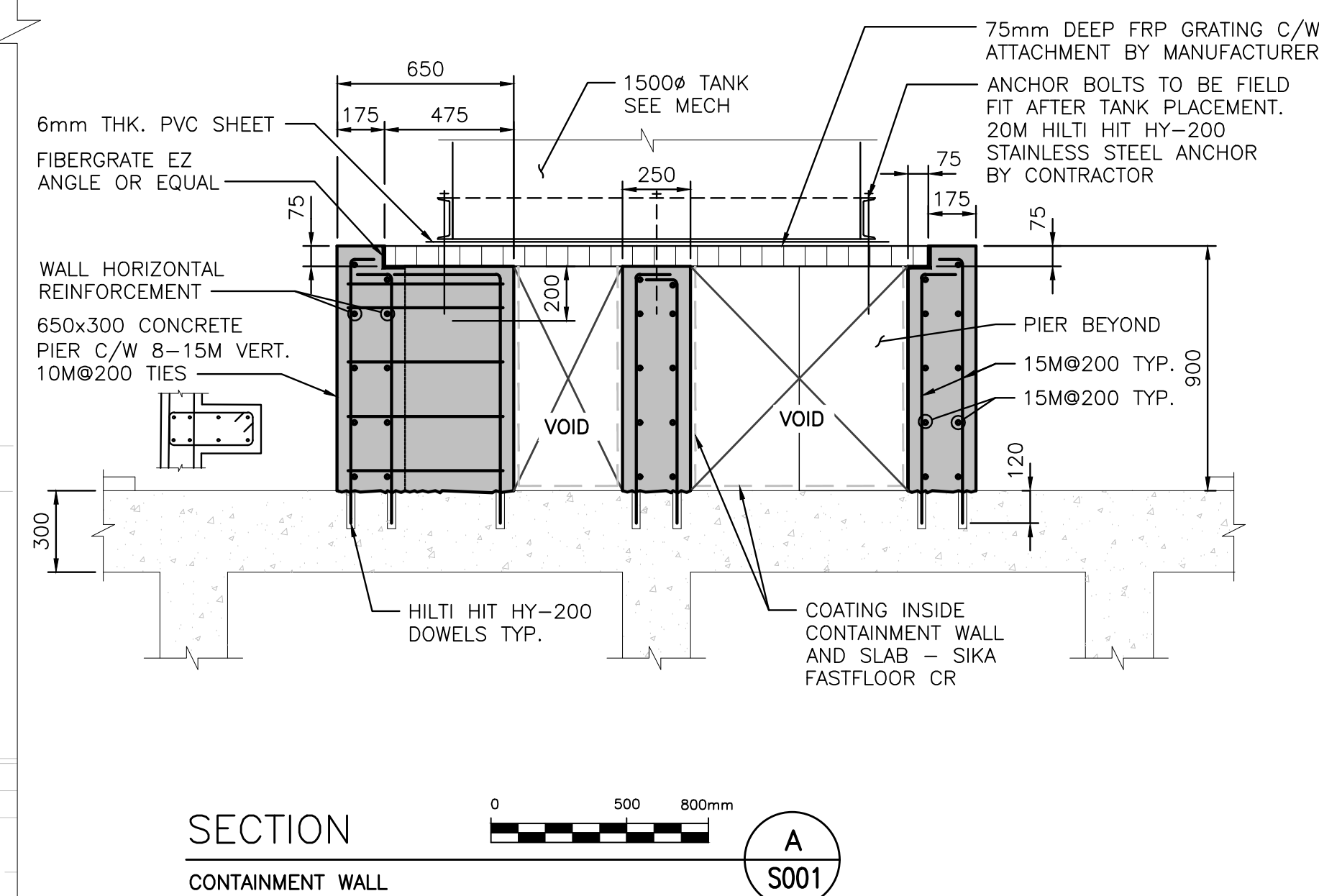
INDEX OF DRAWINGS

GENERAL

00G001	COVER SHEET W/INDEX
00S001	STRUCTURAL: CONTAINMENT WALL PLAN, SECTIONS AND DEMOLITION PLAN
00M001	PROCESS PIPING; PLAN AND SECTION



CONTAINMENT WALL PLAN
PARTIAL PLAN AT EL. 652.00



SECTION

CONTAINMENT WALL

GENERAL

1. READ STRUCTURAL DRAWINGS IN CONJUNCTION WITH OTHER CONTRACT DRAWINGS AND SPECIFICATIONS.
2. BEFORE PROCEEDING WITH WORK, CHECK ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE STRUCTURAL DRAWINGS,
3. BEFORE PROCEEDING WITH WORK, CHECK AND VERIFY ALL DIMENSIONS & EXISTING CONDITIONS AT THE SITE.
4. CONSTRUCTION OF THIS PROJECT INCLUDING MATERIAL & WORKMANSHIP SHALL BE IN ACCORDANCE WITH CSA STANDARDS AND SPECIFICATIONS AS REFERENCE HEREIN.
5. AVOID ANY DAMAGE TO EXISTING SERVICES AND UTILITIES AND ASSUME RESPONSIBILITY TO RESTORE SERVICES IMMEDIATELY AFTERWARDS.
6. ALL DIMENSIONS ARE IN MILLIMETER.
7. PRIOR TO ANCHOR BOLTS INSTALLATION CONTRACTOR TO SCAN EXISTING SLAB TO LOCATE EXISTING REBARS AND CONDUIT.

DESIGN

DESIGN LOADS:

LIVE LOAD FOR FRP GRATING:	2.4 kPa
TANK WEIGHT:	45.0 kN — PER TANK
FLOOR LIVE LOAD:	3.6 kPa

CONCRETE & REINFORCEMENT

1. ALL CONCRETE & REINFORCEMENT CONSTRUCTION SHALL CONFORM TO CSA STANDARD A23.1 AND ALL CONTRACT SPECIFICATIONS. ALL TESTING SHALL COMPLY WITH CSA STANDARD A23.2.
2. CONCRETE: TO CSA-A23.1

TABLE 1		
STRUCTURAL ELEMENT	CLASS OF EXPOSURE	28 DAYS COMPRESSIVE STRENGTH (MPa)
CONTAINMENT WALL	N	35

3. CLEAR COVER TO REINFORCING STEEL, UNLESS NOTED OTHERWISE:

TABLE 2		
TYPE OF MEMBER OR EXPOSURE CONDITION		CAST-IN-PLACE CONC. COVER
1	CONCRETE WALL - PRINCIPAL REINFORCEMENT	50mm

4. ALL REINFORCING STEEL SHALL CONFORM TO CAN/CSA-G30.18-M GRADE 400W.
5. FRP GRATING TYPE: HI5830 PULTRUDED BY FIBERGRATE.

CONSTRUCTION

1. THE CONTRACTOR SHALL VERIFY THE EXISTING STRUCTURE IS SOUND AND FREE OF CORROSION, CRACKING, DELAMINATION OR OTHER DISTRESS, PRIOR TO MAKING CONNECTIONS OR ALTERATION TO EXISTING STRUCTURE.
2. PROVIDE CHAMFERS AND REGLETS AS SHOWN ON STRUCTURAL DRAWINGS WHERE NOT SHOWN, PROVIDE 25mm CHAMFER.
3. WHERE NEW CONCRETE OR GROUT IS TO BE PLACED AGAINST EXISTING CONCRETE, SURFACES SHALL BE PREPARED AS FOLLOWS:
 - ROUGHEN CONCRETE SURFACE TO A FULL AMPLITUDE OF 5 mm.
 - DO NOT DAMAGE OR CUT EXISTING REBAR UNLESS SHOWN. OBTAIN APPROVAL FROM OWNER'S REPRESENTATIVE WHEREVER CUT IS REQUIRED.
 - CLEAN SURFACES. REMOVE VISIBLE OIL, GREASE, DUST, DIRT, SCALE, RUST, OXIDES, CORROSION PRODUCTS AND OTHER FOREIGN MATTER.
 - PLACE NEW CONCRETE ONLY AGAINST EXISTING CONCRETE WHICH IS "SATURATED SURFACE DRY".
 - APPLY BONDING AGENT ON CONCRETE SURFACES PRIOR TO CASTING OF NEW CONCRETE.

LEGEND:

 - NEW CONCRETE

 - EXISTING CONCRETE



1	08/10/2021	RECORD DRAWINGS
0	12/08/2020	ISSUE FOR CONSTRUCTION
ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	W. BAYLESS
CIVIL	
STRUCTURAL	X. LIU
ARCHITECTURAL	
PROCESS	
MECHANICAL	
ELECTRICAL	
INSTRUMENTATION	
PROJECT NUMBER	10224999



**RESORT MUNICIPALITY OF WHISTLER
P280 PUMP STATION**

Whistler, BC

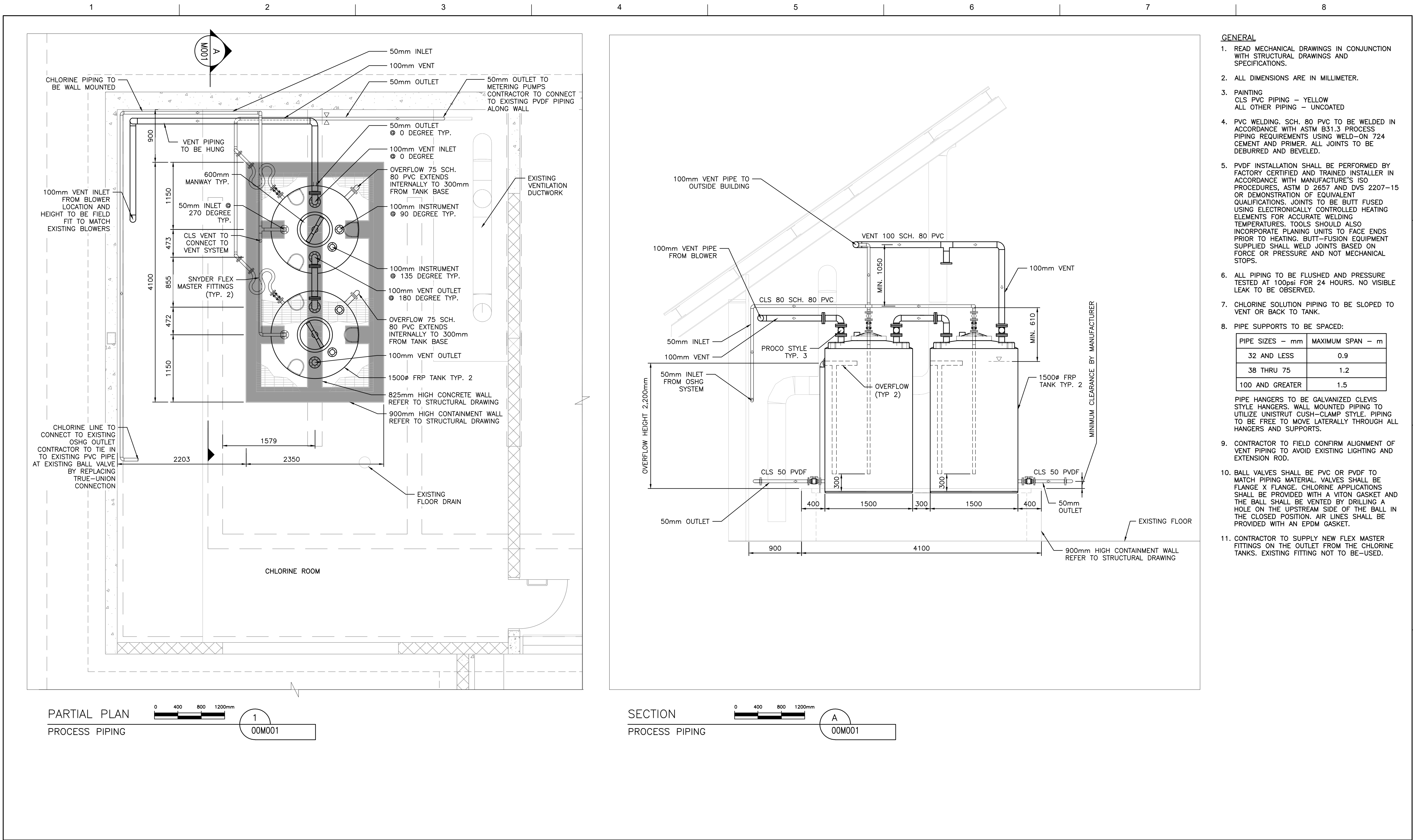
2020

STRUCTURAL CONTAINMENT WALL PLAN, SECTIONS AND DEMOLITION PLAN

FILENAME	00S001.dwg
SCALE	AS SHOWN

SHEET

00S001



ISSUE	DATE	DESCRIPTION
1	08/10/2021	RECORD DRAWINGS
0	12/08/2020	ISSUE FOR CONSTRUCTION

PROJECT MANAGER W. BAYLESS

CIVIL	
STRUCTURAL	
ARCHITECTURAL	
PROCESS	W. BAYLESS
MECHANICAL	
ELECTRICAL	
INSTRUMENTATION	
PROJECT NUMBER	10224999



Whistler, BC

RESORT MUNICIPALITY OF WHISTLER
P280 PUMP STATION

2020

PROCESS PIPING
PLAN AND SECTION

FILENAME 00M001.dwg
SCALE 1:30

00M001

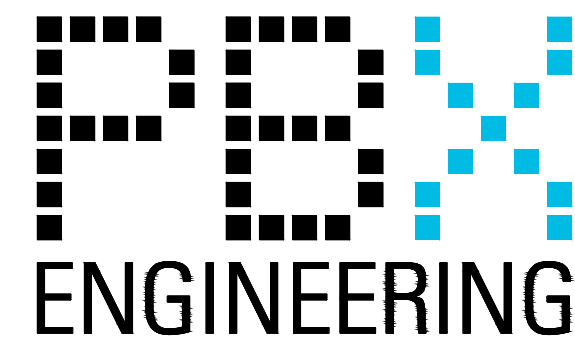
SHEET



P280 CHLORINATION SYSTEM UPGRADES

DETAILED DESIGN

PREPARED BY:

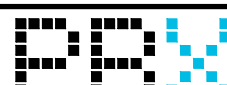


RECORD DRAWING

RECORD DRAWING NOTE:

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THE UNDERSIGNED DOES NOT WARRANT OR GUARANTEE, NOR ACCEPT ANY RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE AS-CONSTRUCTED INFORMATION SUPPLIED BY OTHERS CONTAINED IN THESE DRAWINGS, BUT DOES, BY SEALING AND SIGNING, CERTIFY THAT THE AS-CONSTRUCTED INFORMATION, IF ACCURATE AND COMPLETE, PROVIDES AN AS-CONSTRUCTED SYSTEM WHICH SUBSTANTIALLY COMPLIES IN ALL MATERIAL RESPECTS WITH THE ORIGINAL DESIGN INTENT.

						CLIENT	 WHISTLER	PROJECT	P280 CHLORINATION SYSTEM UPGRADES	 PBX ENGINEERING Ltd. Suite 300 - 131 Water St. Vancouver BC, V6B 4M3 Tel 604-408-7222 www.pbxeng.com	TITLE	TITLE PAGE		
B	21OCT22	RECORD DRAWING		NI	AT	BW								
A	20DEC16	ISSUED FOR CONSTRUCTION		NI	AT	BW								
—	20OCT19	ISSUED FOR TENDER		NI	AT	BW								
Rev.	DATE	ISSUE / REVISION DESCRIPTION	DESN	QC	QA					SCALE N/A	PROJECT NUMBER 20224	DRAWING NUMBER E01	REV. B	

DRAWING INDEX

ELECTRICAL DRAWINGS

DRAWING No.	REV.	DESCRIPTION
E01	B	TITLE PAGE
E02	B	DRAWING INDEX
E03	B	LEGENDS AND ABBREVIATIONS
E10	B	PLAN – CHLORINATION ROOM
E15	B	DETAILS – CHLORINATION SYSTEM PLC MODIFICATIONS
E16	B	DETAILS – HYPO TANK INTERCONNECTIONS

RECORD DRAWING

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THE SEAL AND SIGNATURE OF THE UNDERSIGNED ON THIS DRAWING CERTIFIES THAT THE DESIGN INFORMATION CONTAINED IN THESE DRAWINGS ACCURATELY REFLECTS THE ORIGINAL DESIGN AND THE MATERIAL DESIGN CHANGES MADE DURING CONSTRUCTION, THAT WERE BROUGHT TO THE UNDERSIGNED'S ATTENTION. THESE DRAWINGS ARE INTENDED TO INCORPORATE ADDENDA, CHANGE ORDERS AND OTHER MATERIAL DESIGN CHANGES, BUT NOT NECESSARILY ALL SITE INSTRUCTIONS.

THE UNDERSIGNED DOES NOT WARRANT OR GUARANTEE, NOR ACCEPT ANY RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE AS-CONSTRUCTED INFORMATION SUPPLIED BY OTHERS CONTAINED IN THESE DRAWINGS, BUT DOES, BY SEALING AND SIGNING, CERTIFY THAT THE AS-CONSTRUCTED INFORMATION, IF ACCURATE AND COMPLETE, PROVIDES AN AS-CONSTRUCTED SYSTEM WHICH SUBSTANTIALLY COMPLIES IN ALL MATERIAL RESPECTS WITH THE ORIGINAL DESIGN INTENT.

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SYMBOL LEGEND	
SYMBOL	DESCRIPTION
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✕	GROUND ELECTRODE/ROD
⦿	GROUNDING SYSTEM EXTENSION TAIL
⦶	DUPLEX RECEPTACLE 120V (GFCI)
⌚	SWITCH (LIGHTING)
Ⓜ	MOTOR
Ⓢ	STROBE
Ⓜ	HORN
⬆ X.XKW	UNIT HEATER
Ⓚ	INCANDESCENT OR H.I.D. LIGHT FIXTURES
Ⓡ	INDICATOR LIGHT R=RED, A=AMBER, G=GREEN
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
PEC ⌋ ⌋	WALL-PACK LIGHT FIXTURE C/W PHOTOCELL
—	GROUNDING
ⓧ	CONTACTOR/RELAY COIL
— — —	FUSE
⚡	POWER TRANSFORMER
ⓧ	SUBMERSIBLE PUMP

SYMBOL LEGEND	
SYMBOL	DESCRIPTION
⏏	NORMAL OPEN CONTACT
⏏	NORMAL CLOSED CONTACT
⏏	CIRCUIT BREAKER
⎓	PANELBOARD, CONTROL PANEL
⎓	LED TUBE FIXTURE – 48”
Ⓜ	JUNCTION BOX
Ⓜ	ULTRASONIC LEVEL SENSOR
Ⓜ	LEVEL FLOAT SWITCH HIGH LEVEL No. X
Ⓜ	CHLORINE ANALYSER
Ⓜ	THERMOSTAT
Ⓜ	ALARM BUZZER
Ⓜ	ELAPSED TIME METER
Ⓜ	ULTRASONIC LEVEL TRANSDUCER
Ⓜ	EXPLOSION PROOF EYS SEAL
Ⓜ	EXPLOSION PROOF VENTILATION FAN
Ⓜ	EXPLOSION PROOF DISCONNECT SWITCH

LINE TYPE LEGEND	
LINE	DESCRIPTION
— — —	120V CONDUIT/CABLE
— — —	COMMUNICATIONS OR LOW VOLTAGE CONDUIT/CABLE
— . — —	347/600V CONDUIT/CABLE
-----	GROUNDING
---	FIBRE OPTIC (RED)
---	ETHERNET (PURPLE)
---	PHONE LINE (GREEN)

ABBREVIATIONS:	
ATS	AUTOMATIC TRANSFER SWITCH
AISB	ANALOG INTRINSICALLY SAFE BARRIER
BLWR	BLOWER FAN
C	COIL
CC	CONTROL CABINET
CEC	CANADIAN ELECTRICAL CODE, PART1, LATEST EDITION
CFL	COMPACT FLUORESCENT LAMP
CTRL	CONTROL
DET	DETAIL
EF	EXHAUST FAN
ETM	ELAPSED TIME METER
F	FUSE
FM	FLOW METER
FMC	FLEXIBLE METAL CONDUIT
GEN	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GRD	GROUNDING
H	HOT/ENERGIZED
HO	HIGH OUTPUT
HOA	HAND-OFF-AUTO CONTROL
HP	HORSE POWER
ISR	INTRINSICALLY SAFE RELAY
LED	LIGHT EMITTING DIODE FIXTURE (LIGHT FIXTURE)
LTG	LIGHT/LIGHTING
MGB	MASTER GROUND BAR
N	NEUTRAL
NIC	NOT IN CONTRACT
OL	OVERLOAD PROTECTION
PEC	PHOTOELECTRIC CELL
PH, ø	PHASE
PLC	PROGRAMMABLE LOGIC CONTROLLER
PNL	PANEL
PT	PRESSURE TRANSMITTER
PWY	PUBLIC WORKS YARD
R	RELAY
RAC	RIGID ALUMINUM CONDUIT
REC	RECEPTACLES
SF	SUPPLY FAN
SP	SUMP PUMP
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
UH	UNIT HEATER
VFD	VARIABLE FREQUENCY DRIVE
W	WIRE
XFMR	TRANSFORMER

RECORD DRAWING

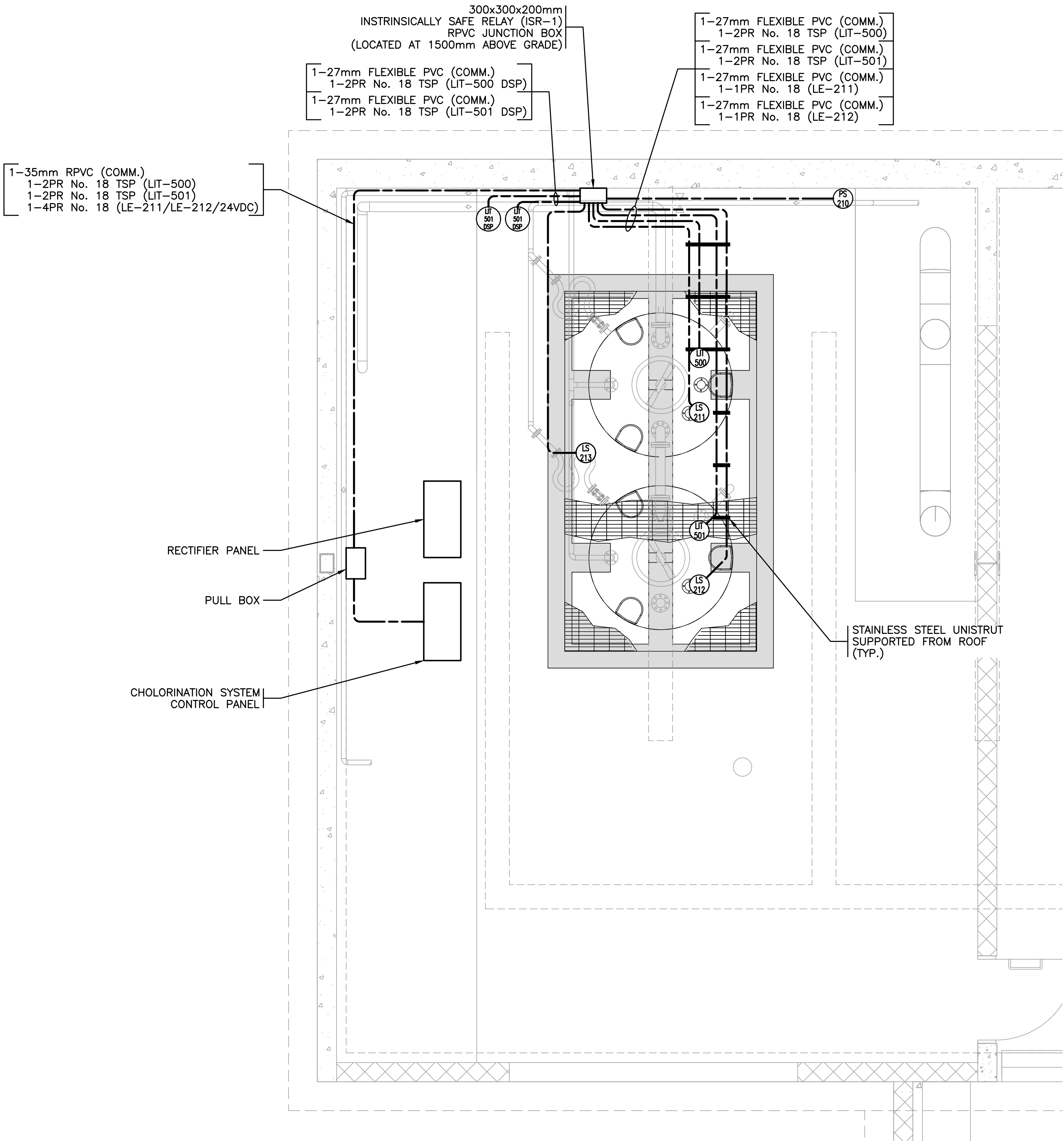
RECORD DRAWING NOTE:

THE SEAL AND SIGNATURE OF THE UNDERSIGNED ON THIS DRAWING CERTIFIES THAT THE DESIGN INFORMATION CONTAINED IN THESE DRAWINGS ACCURATELY REFLECTS THE ORIGINAL DESIGN AND THE MATERIAL DESIGN CHANGES MADE DURING CONSTRUCTION, THAT WERE BROUGHT TO THE UNDERSIGNED'S ATTENTION. THESE DRAWINGS ARE INTENDED TO INCORPORATE ADDENDA, CHANGE ORDERS AND OTHER MATERIAL DESIGN CHANGES, BUT NOT NECESSARILY ALL SITE INSTRUCTIONS.

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TANK CONFIGURATION

PLAN VIEW – CHLORINATION ROOM
N.T.S.

SYMBOL LEGEND		
SYMBOL	DESCRIPTION	PART NUMBER
	ULTRASONIC LEVEL TRANSMITTER	VEGA SON 61 – SN61.KFANHKNXX
	ULTRASONIC LEVEL TRANSMITTER	VEGA SON 61 – SN61.KFANHKNXX
	TRANSMITTER DISPLAY	VEGA DIS 61 – SN61.KFKNB
	TRANSMITTER DISPLAY	VEGA DIS 61 – SN61.KFKNB
	LEVEL SWITCH	FLYGT ENM10 FLOAT SWITCH
	LEVEL SWITCH	FLYGT ENM10 FLOAT SWITCH
	LEVEL SWITCH	FLYGT ENM10 FLOAT SWITCH
	PRESSURE SWITCH	DWYER 1950G

B	21OCT22	RECORD DRAWING	NI	AT	BW
A	20DEC16	ISSUED FOR CONSTRUCTION	NI	AT	BW
–	20OCT19	ISSUED FOR TENDER	NI	AT	BW
Rev.	DATE	ISSUE / REVISION DESCRIPTION	DESN	QC	QA

CLIENT

PROJECT

P280 CHLORINATION SYSTEM UPGRADES

RECORD DRAWING

RECORD DRAWING NOTE:

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Vancouver BC, V6B 4M3 Tel 604.408.7222
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TITLE

PLAN
CHLORINATION ROOM

SCALE
N/A

PROJECT NUMBER
20224

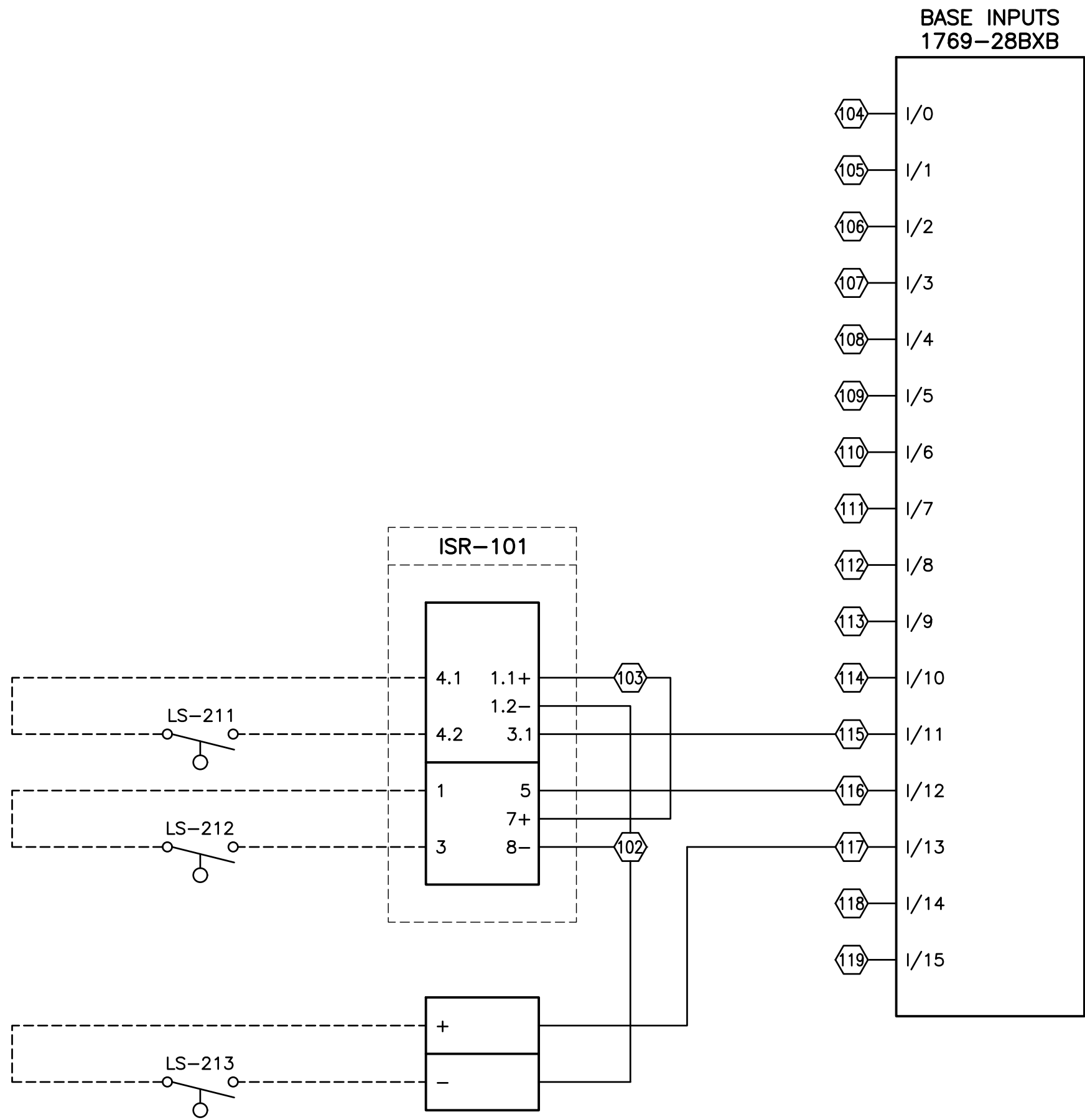
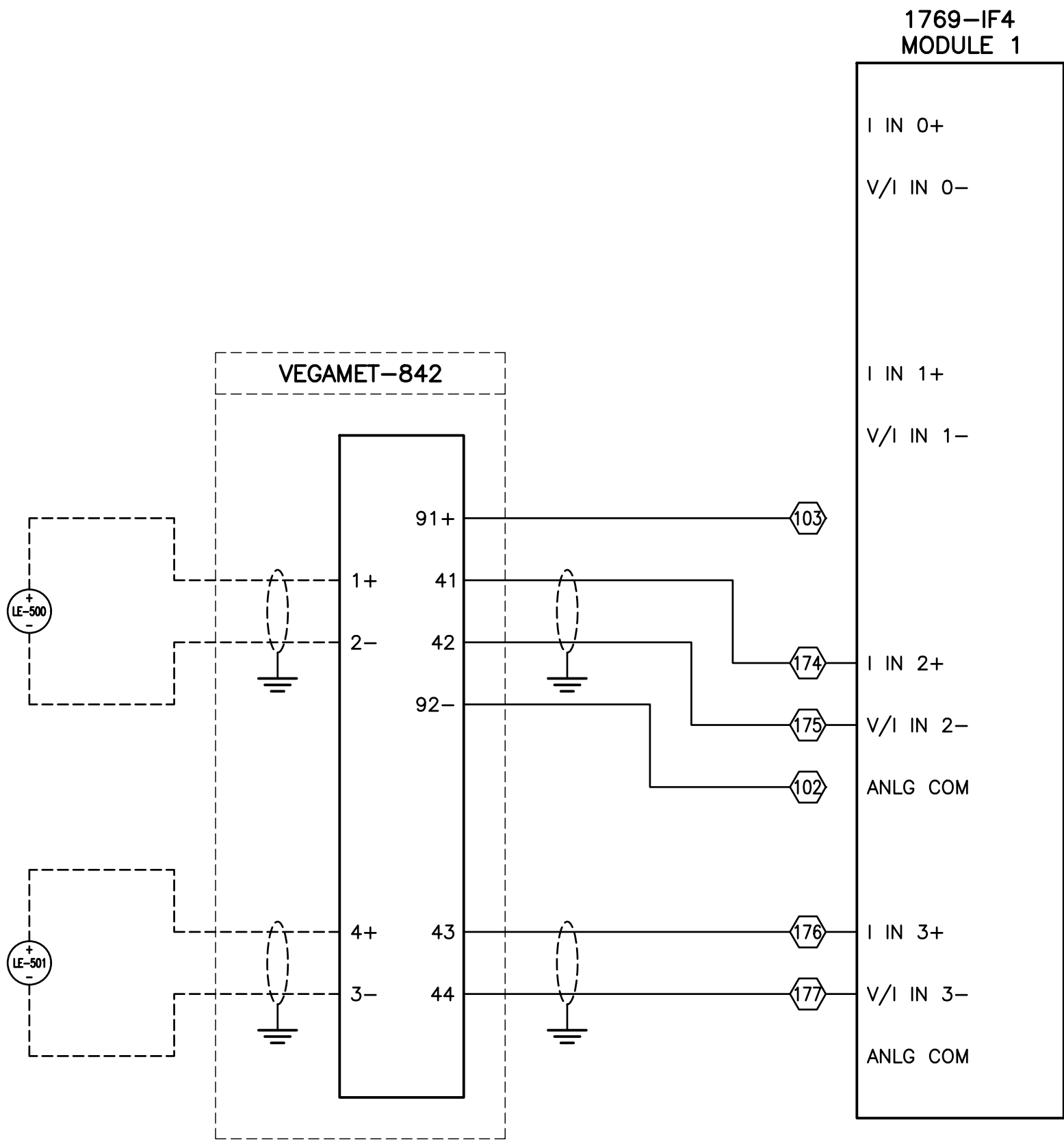
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NOTES:

1. NOT ALL INPUTS AND OUTPUTS SHOWN. ONLY THOSE RELATING TO UPDATED SYSTEM IDENTIFIED IN DRAWINGS.



RECORD DRAWING

RECORD DRAWING NOTE:

THE SEAL AND SIGNATURE OF THE UNDERSIGNED ON THIS DRAWING CERTIFIES THAT THE DESIGN INFORMATION CONTAINED IN THESE DRAWINGS ACCURATELY REFLECTS THE ORIGINAL DESIGN AND THE MATERIAL DESIGN CHANGES MADE DURING CONSTRUCTION, THAT WERE BROUGHT TO THE UNDERSIGNED'S ATTENTION. THESE DRAWINGS ARE INTENDED TO INCORPORATE ADDENDA, CHANGE ORDERS AND OTHER MATERIAL DESIGN CHANGES, BUT NOT NECESSARILY ALL SITE INSTRUCTIONS.

THE UNDERSIGNED DOES NOT WARRANT OR GUARANTEE, NOR ACCEPT ANY RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE AS-CONSTRUCTED INFORMATION SUPPLIED BY OTHERS CONTAINED IN THESE DRAWINGS, BUT DOES, BY SEALING AND SIGNING, CERTIFY THAT THE AS-CONSTRUCTED INFORMATION, IF ACCURATE AND COMPLETE, PROVIDES AN AS-CONSTRUCTED SYSTEM WHICH SUBSTANTIALLY COMPLIES IN ALL MATERIAL RESPECTS WITH THE ORIGINAL DESIGN INTENT.

Rev.	DATE	ISSUE / REVISION DESCRIPTION	DESN	QC	QA
B	21OCT22	RECORD DRAWING	NI	AT	BW
A	20DEC16	ISSUED FOR CONSTRUCTION	NI	AT	BW
-	20OCT19	ISSUED FOR TENDER	NI	AT	BW

CLIENT


WHISTLER

PROJECT **P280 CHLORINATION SYSTEM UPGRADES**


PBX ENGINEERING

Suite 300 - 131 Water St.
Vancouver BC, V6B 4M3 Tel 604.408.7222
www.pbxeng.com

TITLE
**DETAILS
CHLORINATION SYSTEM PLC MODIFICATIONS**

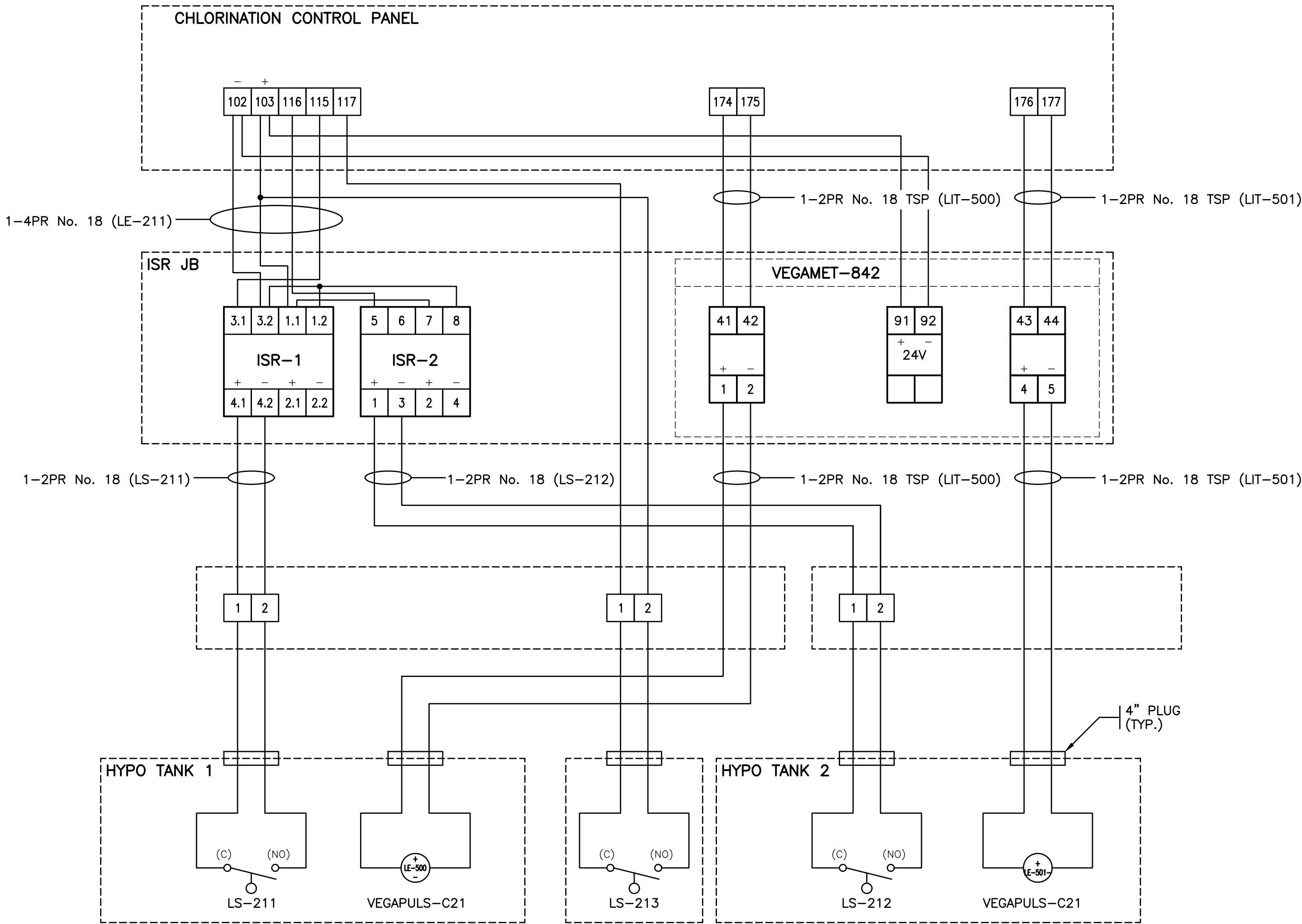
SCALE N/A	PROJECT NUMBER 20224	DRAWING NUMBER E15	REV. B
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NOTES:

1. NOT ALL CONTROL ELEMENTS SHOWN. ONLY ELEMENTS INCLUDED IN SCOPE SHOWN FOR CLARITY.

SYMBOL LEGEND		
SYMBOL	DESCRIPTION	PART NUMBER
	INTRINSICALLY SAFE RELAY	TURCK MK1-L22UP-EX0
	ANALOG INTRINSICALLY SAFE BARRIER	TURCK MK33-LI-EX0
	ANALOG INTRINSICALLY SAFE BARRIER	TURCK IM31-11EX-U



RECORD DRAWING

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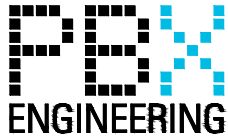
THE UNDERSIGNED DOES NOT WARRANT OR GUARANTEE, NOR ACCEPT ANY RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE AS-CONSTRUCTED INFORMATION SUPPLIED BY OTHERS CONTAINED IN THESE DRAWINGS, BUT DOES, BY SEALING AND SIGNING, CERTIFY THAT THE AS-CONSTRUCTED INFORMATION, IF ACCURATE AND COMPLETE, PROVIDES AN AS-CONSTRUCTED SYSTEM WHICH SUBSTANTIALLY COMPLIES IN ALL MATERIAL RESPECTS WITH THE ORIGINAL DESIGN INTENT.

B	21OCT22	RECORD DRAWING	NI	AT	BW
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Rev.	DATE	ISSUE / REVISION DESCRIPTION	DESN	QC	QA

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TITLE
**DETAILS
HYPO TANK INTERCONNECTIONS**

SCALE N/A	PROJECT NUMBER 20224	DRAWING NUMBER E16	REV. B
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