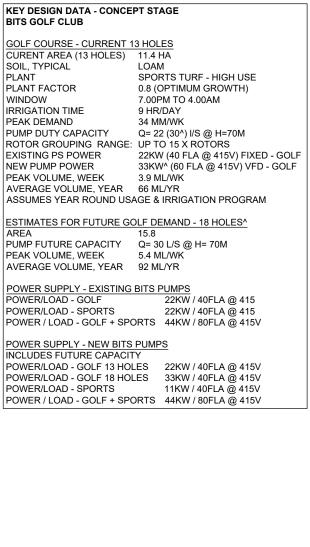


DRAWING NUMBER	TITLE	I
15888-200	BITS GOLF COURSE - KEY PLAN	
15888-200-1	BITS GOLF COURSE - ROTOR PERFORMANCE DATA	
15888-201	BITS GOLF COURSE - LAYOUT 1	
15888-202	BITS GOLF COURSE - LAYOUT 2	
15888-203	BITS GOLF COURSE - LAYOUT 3	
15888-204	BITS GOLF COURSE - LAYOUT 4	
15888-205	BITS GOLF COURSE - LAYOUT 5	
15888-206	BITS GOLF COURSE - LAYOUT 6	
15888-207	BITS GOLF COURSE - LAYOUT 7	
15888-208	BITS GOLF COURSE - LAYOUT 8	
15888-209	BITS GOLF COURSE - LAYOUT 9	
15888-210	BITS GOLF COURSE - LAYOUT 10	
15888-211	BITS GOLF COURSE - LAYOUT 11	
15888-212	BITS GOLF COURSE - LAYOUT 12	
15888-220	BITS GOLF COURSE WATER SUPPLY - LAYOUT 1	
15888-221	BITS GOLF COURSE WATER SUPPLY - LAYOUT 2	
15888-222	BITS GOLF COURSE WATER SUPPLY - LAYOUT 3	
15888-223	BITS GOLF COURSE WATER SUPPLY - LAYOUT 4	



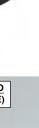
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DES/DRAWN:	EM	CLIENT: GLADESTON	E REGIONAL	COUNCIL		
CHECKED:	PH	182-21 BITS CLUB SITE &	DENNIS PAR	RK SPORTS (COMPLEX	
APPROVED:	SJ	PROJECT: DETAILED DES	GN IRRIGAT	ION SYSTEM		
DATE:	12/05/2021	BITS GOLF	COURSE - K	EY PLAN		
ORAFT REF:	4-GRC-d2	DRAWING No. 15888-200	SHEET 1	of 18	REVISION	А

SCORECARD - TBC BY BITS GC DESIGN NOTE	OPTION 1 - ROTOR PERFORMANCE DATA
HOLE LENGTH (M) IRRIG AREA (M ²) SCORECARD DATA TO BE CONFIRMED IN DETAILED DESIGN WITH INPUT FROM	
1 BITS GOLF CLUB FOR EXISTING & 2 FUTURE IRRIGATED AREAS	
	TYPICAL AREA-SIZE MODEL # NOZZLE # ARC * FLOW LATERAL ROTOR APPLIC RATE DISTRIBUTION COEFFICIENT SCHEDULING TYPICAL AREA-SIZE MODEL # NOZZLE # ARC * (KPa) RADIUS (M) (LPM) SPACE (M) PATTERN (MWHR)* UNIFORMITY (%) UNIFORMITY % COEFFICIENT
4 MALPASST	GREEN-LARGE INF34 35 360 448 24.1 124 20 20 SQUARE 18.7 89 91 1.1 FWY-DEF & GRN-MED INF34 33 360 446 21 B7 18 18 SQUARE 16.1 B9 93 1.1
	FAIRWAY-NARROW INF34 31 360 448 17.7 57 18 16 RECT 12 89 92 1.1
	FAIRWAY-TARGETED INF34 31 160 448 17.7 57 17 14 RECT 24 90 93 1.1
	GREEN-SMALL/MED INF34 31 360 448 17.7 57 16 16 SQUARE 13.5 90 93 1.1 GREEN-SMALL INF34 31 360 448 17.7 57 16 15 RECT 14.4 89 93 1.1
	GREEN-SMALL/NAR INF34 31 360 448 17.7 57 15 15 SQUARE 15.3 90 93 1.1
	GREEN-SMALL/NAR INF34 31 360 448 17.7 57 14 14 SQUARE 17.6 92 94 1.1
	TEE - NARROW WIDTH INF34 33 180 448 21 87 - 15 SINGLE ROW 20 75 82 1.3 FAIRWAY-NARROW INF34 33 360 448 21 87 - 18 SINGLE ROW 20 75 82 1.3
PUTTING GREEN	KEY PERFORMANCE INDICATORS AVERAGE 448 AVERAGE 73 AVERAGE 16 87.2 90.8 1.1
	KPIS ARE NOT WEIGHTED. THE MAJORITY OF ROTORS IN TERMS OF QUANTITY ARE THE FAIRWAY-DEFAULT & GREEN MEDIUM (ITEM 2 - BOLD) BASED ON 18X18M SQUARE GRID PATTERN.
NURSERY SUB TOTAL - EXIST	NOTE (1): TABLE COVERS MAJORITY OF COMBINATIONS HOWEVER FOR SPECIFIC ARC'S TO LIMIT OVERTHROW NOT SHOWN, CALCULATE SPECIFIC PRECIPATION RATES FOR SPECIFIC NOZZLE & ARC
	DESIGN NOTES SCHEDULING COEFFICIENT - PERFORMANCE OPTIONS:
	DESIGN SPACING AND PATTERNS ARE MOSTLY DICTATED BY SHAPES AND OBSTACLES TO DETERMINE THE LAYOUT
	THAT BEST SUITS THE SITE. THEN A PRESSURE IS
	CHRISTIANSEN (%) AND SCHEDULING COEFFICIENT. THE
	PERFORMANCE IS LARGELY RELIANT ON THE PRODUCTS AVAILABLE TO MEET CRITERIA, AND THERE IS NO VALUE IN
	A SUBSTANDARD HYDRAULIC DESIGN AND STOCK LILAC PIPE IS GENERALLY LIMITED TO PN12.5. IN THIS CASE TWO
	MANUFACTURERS WITH THE BEST PERFORMANCE DATA TO
	COMPARE HAVE BEEN SELECTED ACROSS THE RANGE OF SPACINGS BEING USED IN THE DESIGN. BOTH OPTIONS
	HAVE A HIGH LEVEL UNIFORMITY AND VERY GOOD SCHEDULING COEFFICIENT, AND EITHER CAN BE
	RECOMMENDED ON THIS BASIS. ROTOR COSTS WILL NOT BE SIGNIFICANTLY DIFFERENT IN THE SCALE OF PROJECT.
	OTHER KEY PERFORMANCE INDICATORS MAY BE
	CONSIDERED OF VALUE, SUCH AS; PRESSURE, FLOW RATES & PRECIPITATION RATES - IN WHICH CASE OPTION 1 HAS
	SEVERAL ADVANTAGES WITH LOWER OPERATING PRESSURE, FLOWS & PRECIPITATION RATES WHILST
	OFFERING THE SAME SCHEDULING COEFFICIENT IN
	OPTION 1 TORO MODEL INF34 - SM (E) MAJORITY OF SPACINGS. OTHER FACTORS TO CONSIDER FOR SELECTING ROTOR OPTIONS INCLUDE THE CONTROL
	SYSTEM CAPABILITY, AS VALVE IN HEAD TYPE GOLF ROTORS ARE INTEGRAL WITH THE MANUFACTURERS
	CONTROL SYSTEM & SOFTWARE.
	CONTROL SYSTEM OPTIONS - OVERVIEW:
	BOTH SYSTEMS ARE INTEGRAL WITH THE MANUFACTURERS ROTORS AND HAVE THE CAPABILITY FOR REQUIRED
	PROGRAMMING WITH MAPS & SENSOR INPUTS SUCH AS FLOW METERS AND ENVIRONMENTAL SENSORS FOR
OPTION 2 - RAIN BIRD	ADVANCED FLOW MANAGEMENT AND SEASONAL SCHEDULING.
MODEL 702 & 752 (IC-NP)	
OPTION 2 - ROTOR PERFORMANCE DATA	OPTION 1 - TORO CENTRAL CONTROL SOFTWARE - LYNX W/ MOBILE APP/NSN
	INTERFACE HARDWARE, I/O - SMART MODULE FOR ROTORS WITH SMART HUB FOR PUMP STN & FLOW METER CONNECT.
RAIN BIRD	2 WIRE (2.5MM ²) CONTROL SYSTEM & GROUNDING OPTION 2 - RAIN BIRD
TYPICAL AREA-SIZE MODEL # NOZZLE # ARC * PRESSURE (kPa) FLOW LATERAL SPACE (M) ROTOR APPLIC RATE PATTERN DISTRIBUTION COEFFCIENT SCHEDULING	CENTRAL CONTROL SOFTWARE-STRATUS II C/W MI APP/GSP
GREEN-LARGE 702 48 360 483 22.3 124 20 20 SQUARE 21 85 91 1.1 FWY-DEF & GRN-MED 702 36 360 483 19.8 104 18 18 SQUARE 19.3 83 83 1.1	INTERFACE HARDWARE, I/O - IC-OUT FOR ROTORS WITH IC-IN FOR PUMP STN & FM CONNECT.
FWY-DEF & GRN-MED 702 36 360 483 19.3 104 18 18 SQUARE 19.3 83 88 1.1 FARWAY-NARROW 702 28 360 483 17.4 90 18 16 RECT 15.8 89 92 1.1	2 WIRE (2.5MM ²) CONTROL SYSTEM & GROUNDING
FARWAY-TARGETED 752 28 180 483 17.4 90 17 14 RECT 40.4 84 90 1.1	IRR OPTIONS 1&2 IN THE EARLY STAGES OF DETAILED DESIGN, OPERATORS
GREEN-SMALL/MED 702 28 360 483 17.4 90 16 16 SQUARE 21 87 91 1.1 GREEN-SMALL 702 28 360 483 17.4 90 16 16 SQUARE 21 87 91 1.1	RECEIVE A INTERACTIVE DEMONSTRATION OF THE
GREEN-SMALL 702 28 360 483 17.4 90 16 15 RECT 22.4 86 91 1.1 GREEN-SMALL/NAR 702 28 360 483 17.4 90 15 15 SQUARE 22.4 86 91 1.1	
GREEN-SMALL/NAR 702 28 360 483 17.4 90 14 14 SQUARE 27.5 92 95 1.0	FOR SOFTWARE EVALUATION OF EACH OEM CONTROLS.
TEE - NARROW WIDTH 752 36 180 483 21 86 - 15 SINGLE ROW 23.4 76 86 1.2 FAIRWAY-NARROW 702 36 360 483 19.8 104 - 18 SINGLE ROW 10.1 83 89 1.1	ALTERNATIVELY HYDROPLAN CAN PROVIDE A BRIEF
FAIRWARHAAROV 702 36 360 463 19.6 104 - 13 Single ROV 10.1 63 63 1.1 KEY PERFORMANCE INDICATORS AVERAGE 483 AVERAGE 96 AVERAGE 22.3 85.1 90.4 1.1	
KP/S ARE NOT WEIGHTED. THE MAJORITY OF ROTORS IN TERMS OF QUANTITY ARE THE FAIRWAY-DEFAULT & GREEN MEDIUM (ITEM 2 + BOLD) BASED ON 18X18M SQUARE GRID PATTERN.	
NOTE (1): TABLE COVERS MAJORITY OF COMBINATIONS HOWEVER FOR SPECIFIC ARC'S TO LIMIT OVERTHROW NOT SHOWN, CALCULATE SPECIFIC PRECIPATION RATES FOR SPECIFIC NOZZLE & ARC	SCALE 1:500 ORIGINAL SIZE A1
	This document is and shall remain the property of HYDRO-PLAN PTY ITD. The document may only CHECKED: 192.21 RITS CLUB SITE & DENNIS DARK SPORTS COMPLEY.
	commissioned and in accordance with the terms of expressioned and in accordance with the terms of APPROVED: PROJECT:
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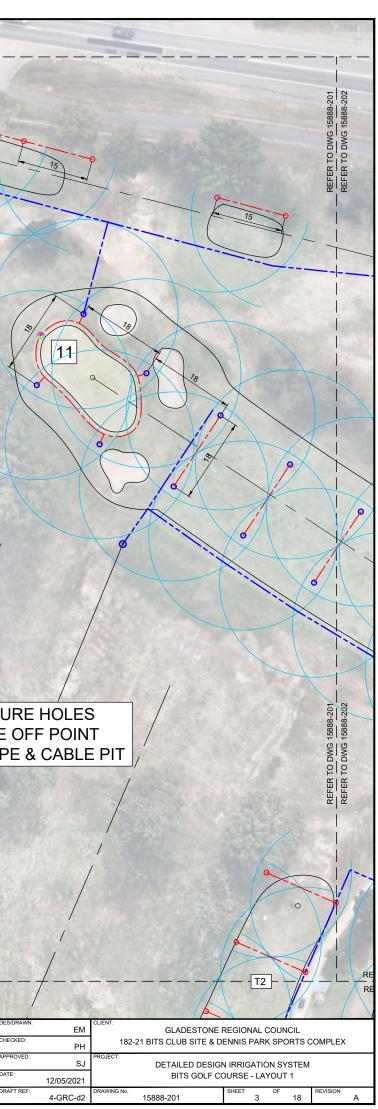


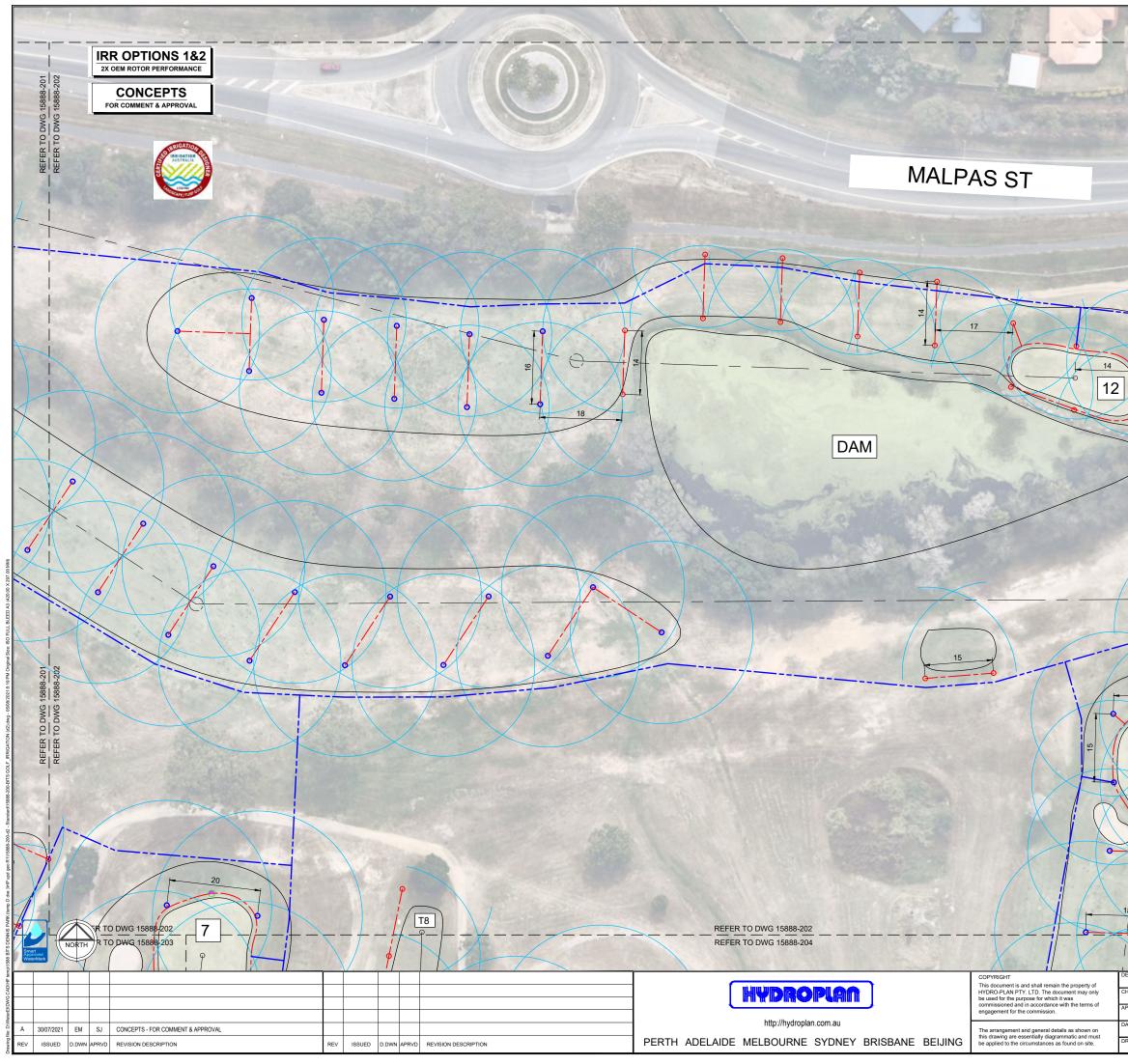




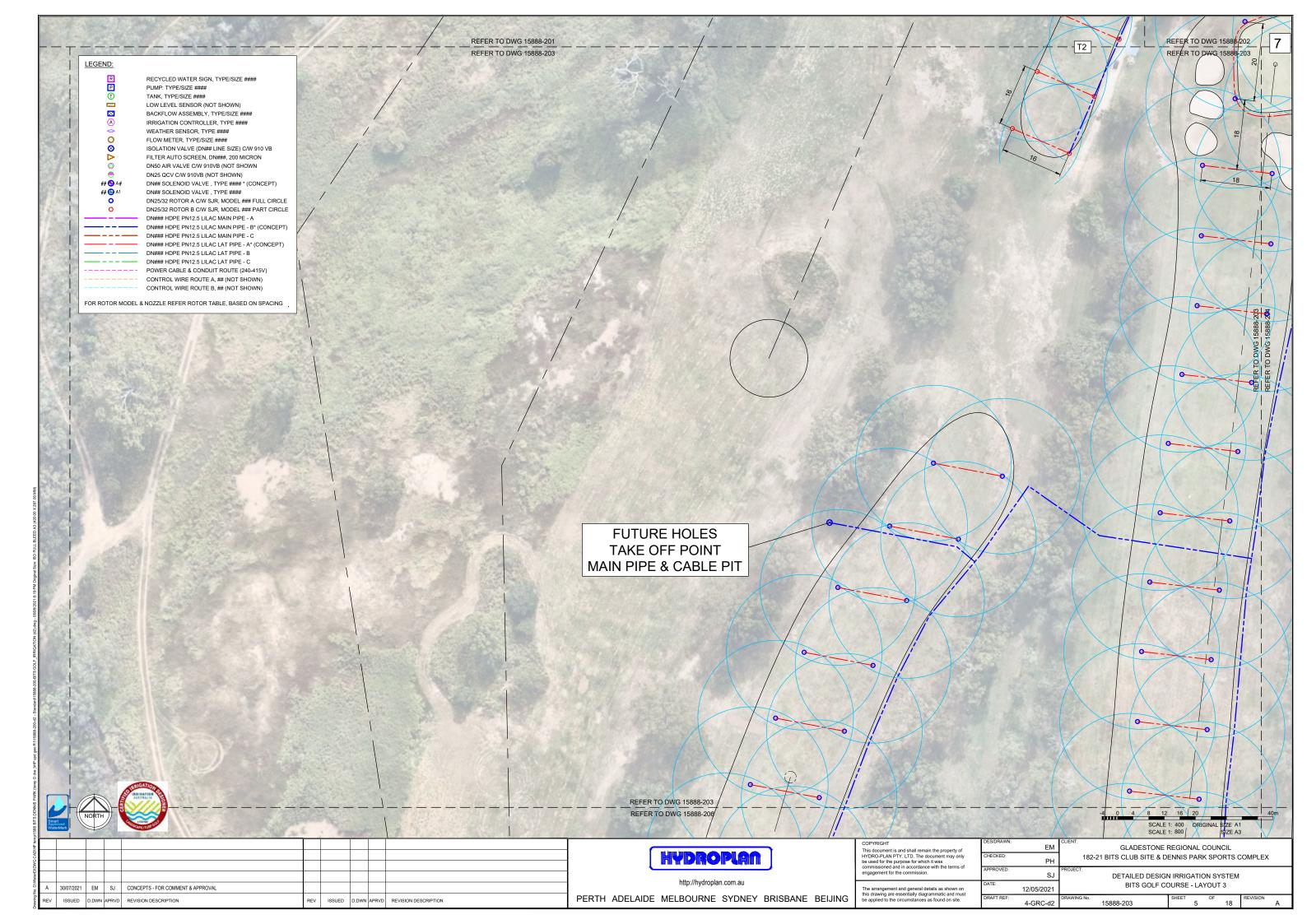


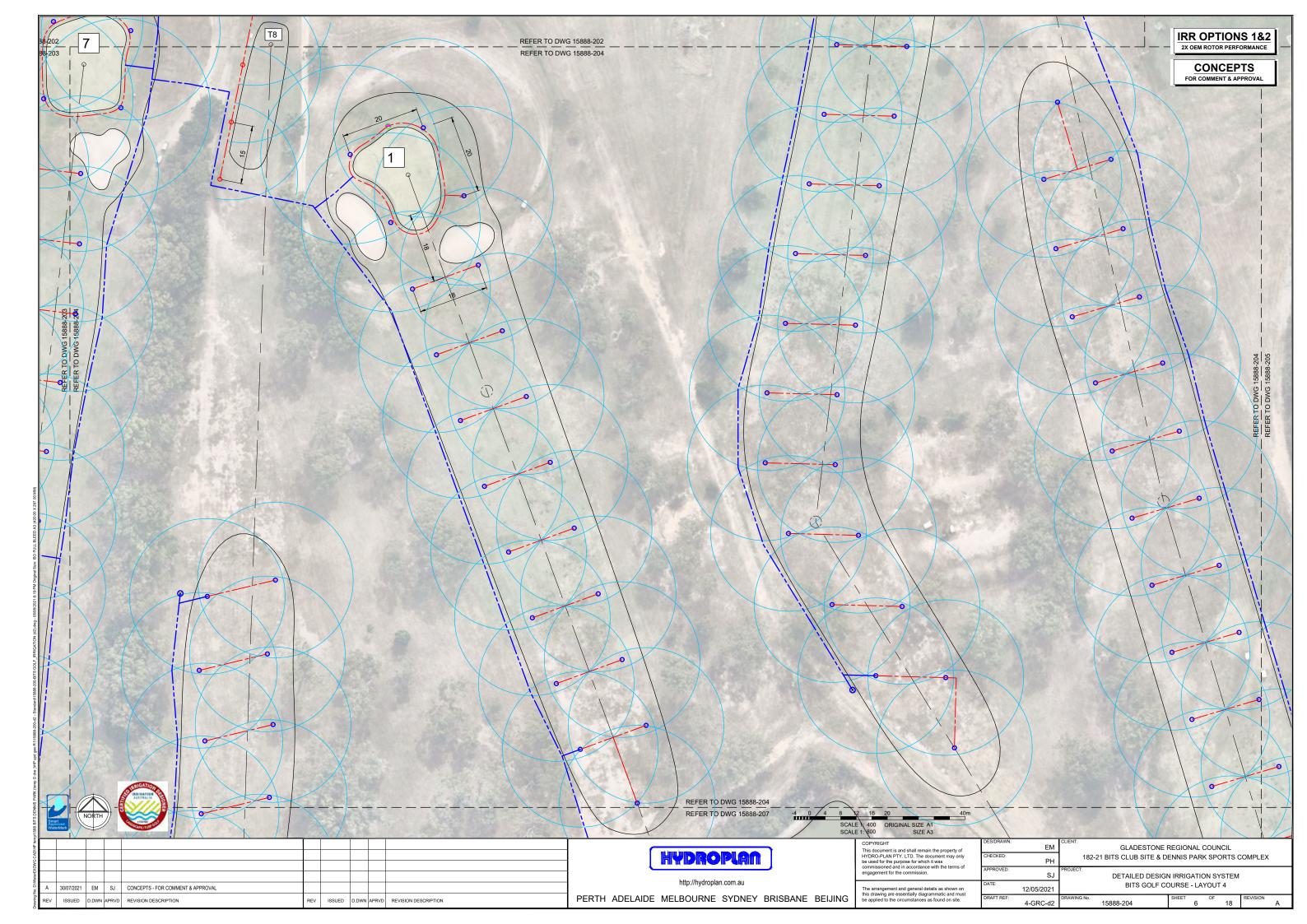
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LEGEND: R RECYCLED WATER SIGN, TYPE/SIZE #### PUMP: TYPE/SIZE #### TANK, TYPE/SIZE #### TANK, TYPE/SIZE #### I LOW LEVEL SENSOR (NOT SHOWN) BACKFLOW ASSEMBLY, TYPE/SIZE #### I LOW LEVEL SENSOR (NOT SHOWN) BACKFLOW ASSEMBLY, TYPE/SIZE #### I UWEATHER SENSOR, TYPE #### I WEATHER SENSOR, TYPE #### I FLOW METER, TYPE/SIZE #### I SOLATION VALVE (DN## LINE SIZE) C/W 910 VB FILTER AUTO SCREEN, DN###, 200 MICRON DN50 AIR VALVE CW 910VB (NOT SHOWN) IIII DN## SOLENOID VALVE, TYPE #### * (CONCEPT) DN## SOLENOID VALVE, TYPE #### I DN25/32 ROTOR A C/W SJR, MODEL ### FULL CIRCLE I DN25/32 ROTOR A C/W SJR, MODEL ### FULL CIRCLE I DN25/32 ROTOR A C/W SJR, MODEL ### FULL CIRCLE I DN25/32 ROTOR A C/W SJR, MODEL ### FULL CIRCLE I DN### HDPE PN12.5 LILAC MAIN PIPE - A I DN### HDPE PN12.5 LILAC MAIN PIPE - B* (CONCEPT) I DN### HDPE PN12.5 LILAC MAIN PIPE - C I DN### HDPE PN12.5 LILAC LAT PIPE - 8 I DN### HDPE PN12.5 LILAC LAT PIPE - C I		TAKI	URE HOLES E OFF POINT PE & CABLE PIT
POWER CABLE & CONDUIT ROUTE (240-415V) CONTROL WIRE ROUTE A, ## (NOT SHOWN) CONTROL WIRE ROUTE B, ## (NOT SHOWN) FOR ROTOR MODEL & NOZZLE REFER ROTOR TABLE, BASED ON SPACING CONTROL WIRE ROUTE B, ## (NOT SHOWN) FOR ROTOR MODEL & NOZZLE REFER ROTOR TABLE, BASED ON SPACING CONTROL WIRE ROUTE B, ## (NOT SHOWN) FOR ROTOR MODEL & NOZZLE REFER ROTOR TABLE, BASED ON SPACING CONTROL WIRE ROUTE B, ## (NOT SHOWN) FOR ROTOR MODEL & NOZZLE REFER ROTOR TABLE, BASED ON SPACING CONTROL WIRE ROUTE B, ## (NOT SHOWN) FOR ROTOR MODEL & NOZZLE REFER ROTOR TABLE, BASED ON SPACING CONTROL WIRE ROUTE B, ## (NOT SHOWN) FOR ROTOR PERFORMANCE CONTROL WIRE ROUTE B, ## (NOT SHOWN)			
			FUT TAKE MAIN PII
	1 0 4 8 12 16 20 40m SCALE 1: 400 ORIGINAL SIZE A1 SCALE 1: 800 SIZE A3	REFER TO DWG 15888-201 REFER TO DWG 15888-203	COPYRIGHT This document is and shall remain the property of HYDRO-PLAN PTY. LTD. The document may only be used for the purpose for which it was cormissioned and in accordance with the terms of
30/07/2021 EM SJ CONCEPTS - FOR COMMENT & APPROVAL		http://hydroplan.com.au	Commissioned also in accolutative with the terms of engagement for the commission. The arrangement and general details as shown on this drawing are essentially diagrammatic and must
ISSUED D.DWN APRVD REVISION DESCRIPTION	REV ISSUED D.DWN APRVD REVISION DESCRIPTION	PERTH ADELAIDE MELBOURNE SYDNEY BRISBANE BEIJING	this drawing are essentially diagrammatic and must be applied to the circumstances as found on site.

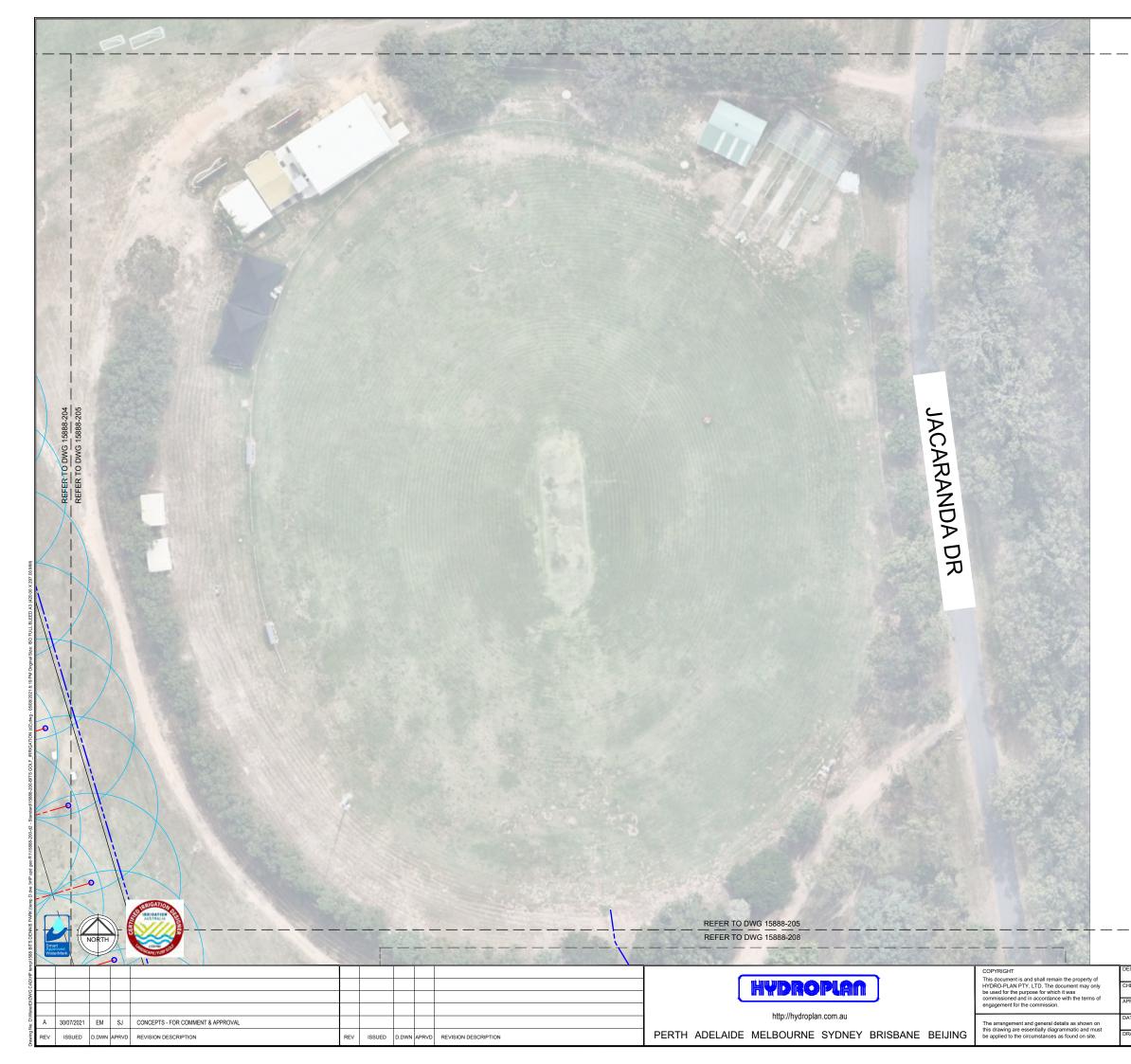


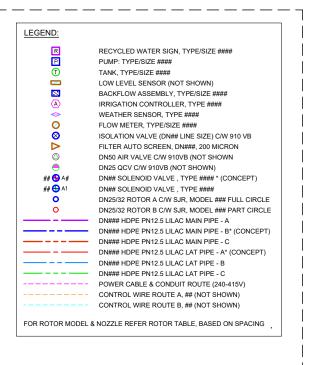


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		CONTROL WIRE ROUTE B, ## (NOT SHOWN)	
	FUK KUTUR MODEL	& NOZZLE REFER ROTOR TABLE, BASED ON SPACING	
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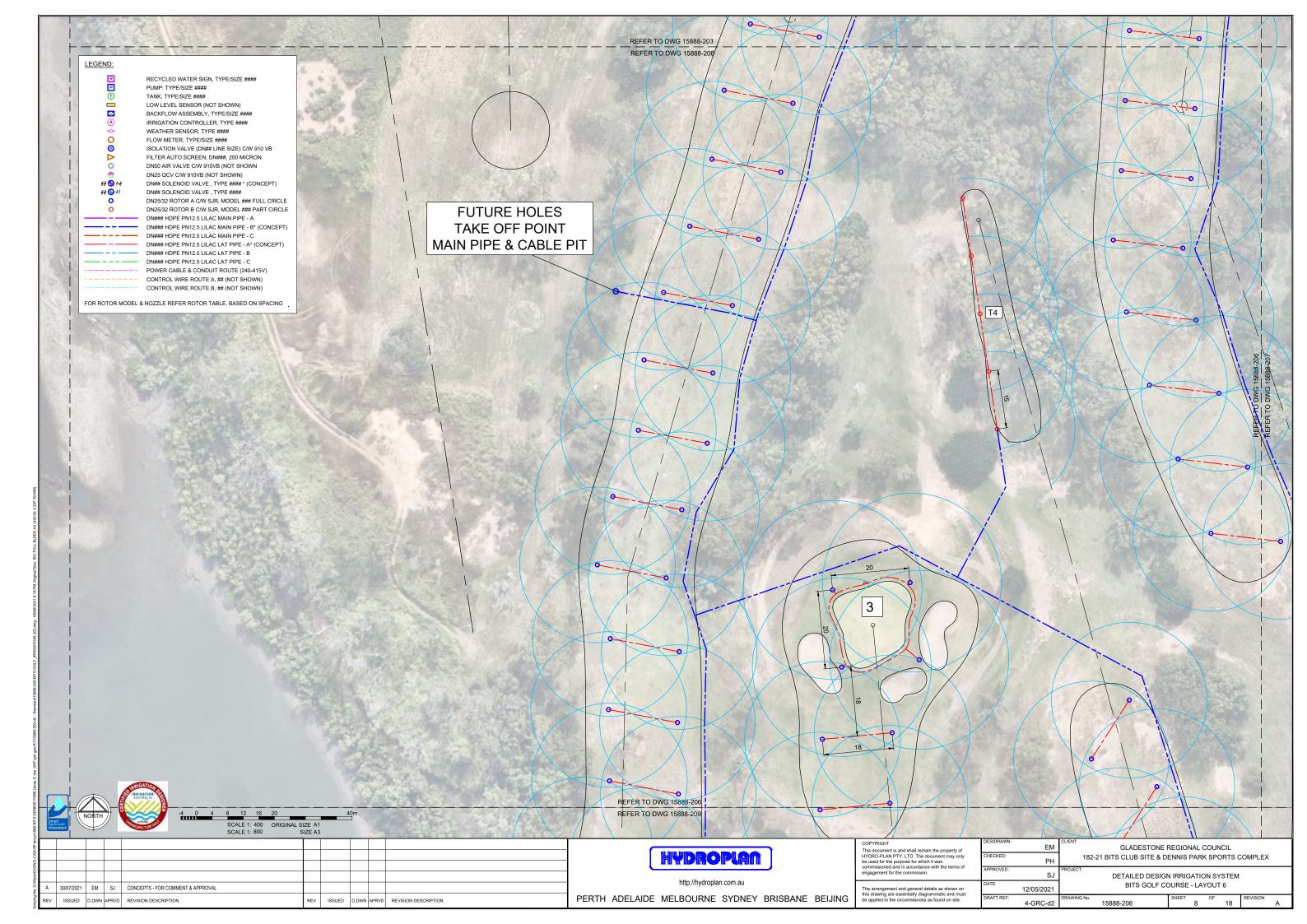


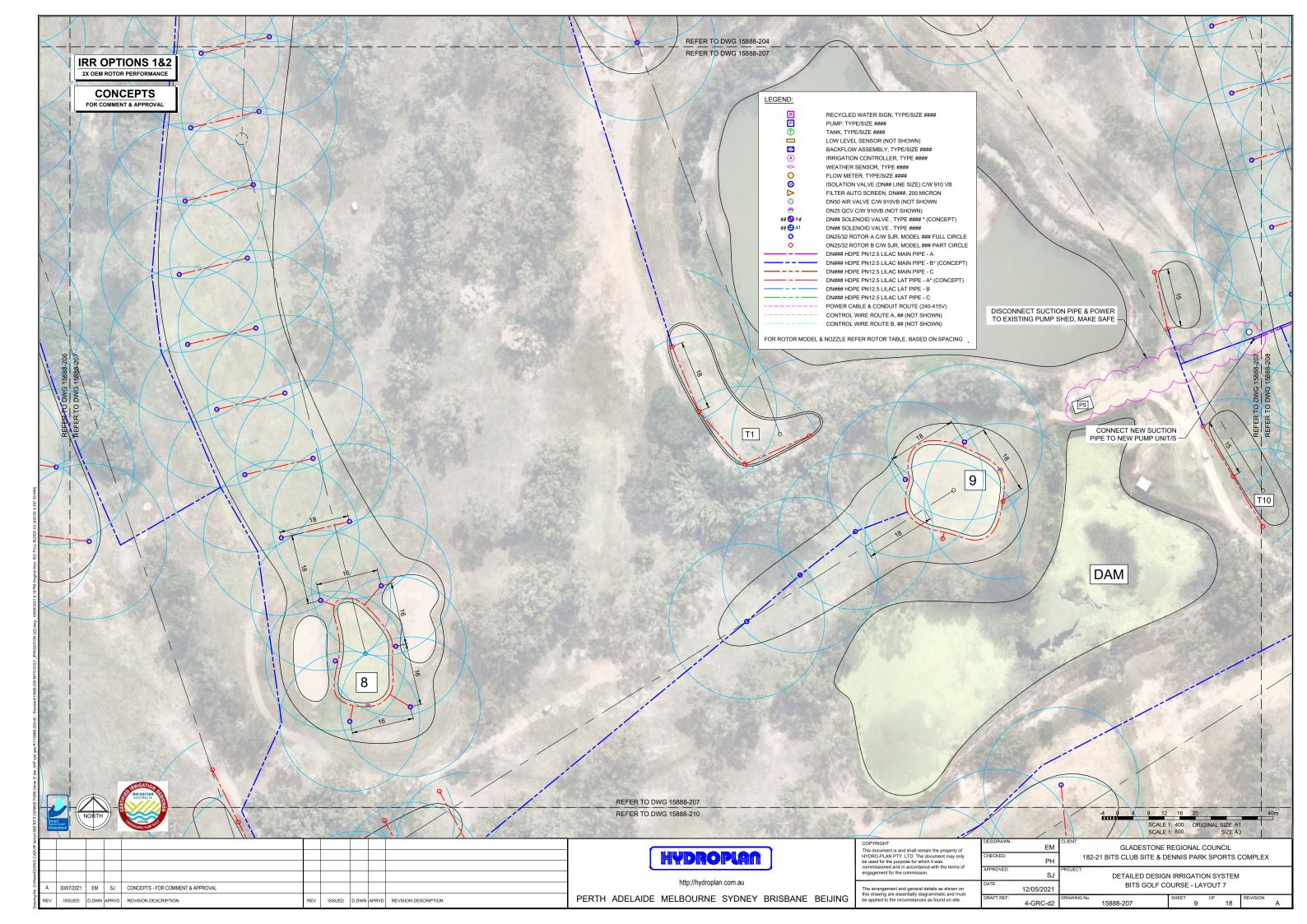


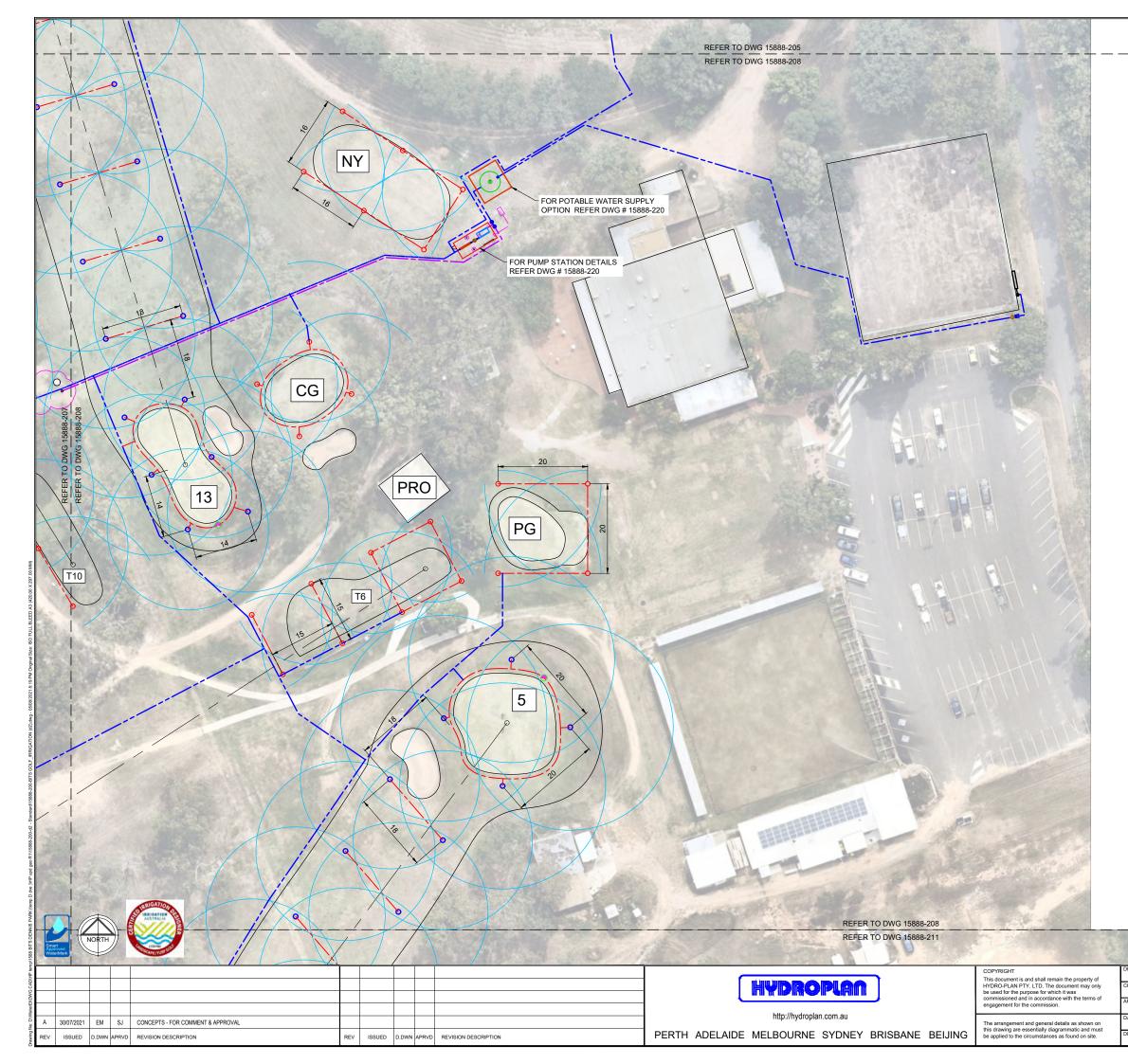


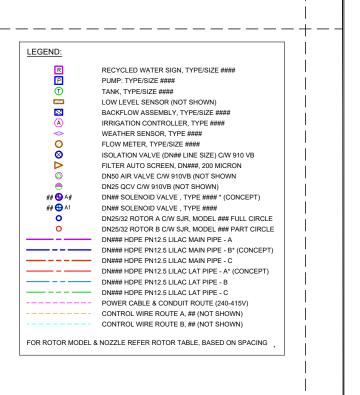
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IRR OPTIONS 1&2 2X OEM ROTOR PERFORMANCE





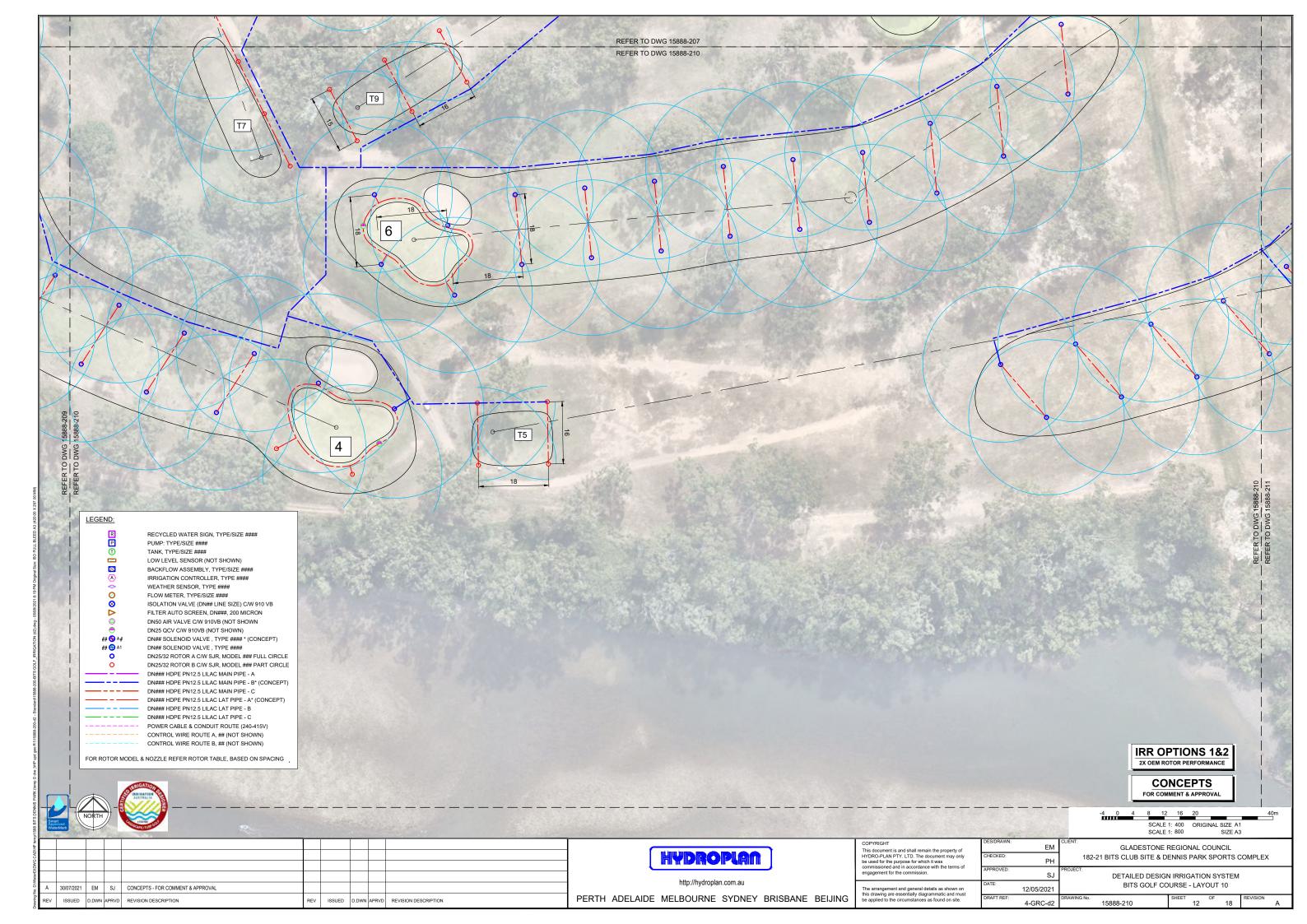




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	FOR ROTOR MODEL	8. NOZZLE REFER ROTOR TABLE, BASED ON SPACING						the second secon	こうちょう ちょうちょう こうない ちょうちょう
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That the second se	NORTH -							COPYRIGHT	DE
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A The	Q Q	FLOW METER, TYPE/SIZE ####	1
	⊘	ISOLATION VALVE (DN## LINE SIZE) C/W 910 VB FILTER AUTO SCREEN, DN###, 200 MICRON	1
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1 15 3	## 🔂 ## 🕁	A# DN## SOLENOID VALVE , TYPE #### * (CONCEPT)	
	0	DN25/32 ROTOR A C/W SJR, MODEL ### FULL CIRCLE	
		DN### HDPE PN12.5 LILAC MAIN PIPE - A	
Salar Pro		- DN### HDPE PN12.5 LILAC MAIN PIPE - B* (CONCEPT) - DN### HDPE PN12.5 LILAC MAIN PIPE - C	
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ast in		DN### HDPE PN12.5 LILAC LAT PIPE - C POWER CABLE & CONDUIT ROUTE (240-415V)	
100		CONTROL WIRE ROUTE A, ## (NOT SHOWN) CONTROL WIRE ROUTE B, ## (NOT SHOWN)	1.52.0
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APPROVED:	PH SJ	PROJECT: DETAILED DESIGN IRRIGATION SYSTEM	1
DATE: 12	5J 2/05/2021	BITS GOLF COURSE - LAYOUT 11	
DRAFT REF:		DRAWING No. OF REVISION 15888-211 SHEET OF REVISION 13 18 A	1
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LEGEND:	
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—	LOW LEVEL SENSOR (NOT SHOWN)
	BACKFLOW ASSEMBLY, TYPE/SIZE ####
A	IRRIGATION CONTROLLER, TYPE ####
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8	ISOLATION VALVE (DN## LINE SIZE) C/W 910 VB
	FILTER AUTO SCREEN, DN###, 200 MICRON
\diamond	DN50 AIR VALVE C/W 910VB (NOT SHOWN
0	DN25 QCV C/W 910VB (NOT SHOWN)
## 🕀 A#	DN## SOLENOID VALVE , TYPE #### * (CONCEPT)
## 🕀 A1	DN## SOLENOID VALVE , TYPE ####
0	DN25/32 ROTOR A C/W SJR, MODEL ### FULL CIRCLE
0	DN25/32 ROTOR B C/W SJR, MODEL ### PART CIRCLE
	DN### HDPE PN12.5 LILAC MAIN PIPE - A
	DN### HDPE PN12.5 LILAC MAIN PIPE - B* (CONCEPT)
	DN### HDPE PN12.5 LILAC MAIN PIPE - C
	DN### HDPE PN12.5 LILAC LAT PIPE - A* (CONCEPT)
	DN### HDPE PN12.5 LILAC LAT PIPE - B
	DN### HDPE PN12.5 LILAC LAT PIPE - C
	POWER CABLE & CONDUIT ROUTE (240-415V)
	CONTROL WIRE ROUTE A, ## (NOT SHOWN)
	CONTROL WIRE ROUTE B, ## (NOT SHOWN)

LEGEND:

FOR ROTOR MODEL & NOZZLE REFER ROTOR TABLE, BASED ON SPACING

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CAD											- Hydroplan i	This document is and shall remain the property of HYDRO-PLAN PTY. LTD. The document may only
\$UNG												be used for the purpose for which it was commissioned and in accordance with the terms of
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le: D:W	A	30/07/2021	EM	SJ	CONCEPTS - FOR COMMENT & APPROVAL						http://hydroplan.com.au	The arrangement and general details as shown on
rawing fil	REV	ISSUED	D.DWN	APRVD	REVISION DESCRIPTION	REV	ISSUED	D.DW	APRVD	REVISION DESCRIPTION	PERTH ADELAIDE MELBOURNE SYDNEY BRISBANE BEIJING	this drawing are essentially diagrammatic and must be applied to the circumstances as found on site.
•							1					



BITS CLUBS - WATER SUPPLY PUMP OPTION 5 - PART B POTABLE WATER BACKUP FOR LIMITED CAPACITY AT Q=10 I/S INTO 46.4 KL TANK, IF RECYCLED WATER IS UNAVAILABLE FOR AN EXTENDED PERIOD. CLUB ALLOCATION ESTIMATES AT RESTRICTED PUMP OUT RATE OF 10L/S AS FOLLOWS;

- GOLF TEES & GREENS ONLY (UP TO 2HA) : AFL & CRICKET (1.8HA): 2 NIGHTS / WEEK 2 NIGHTS / WEEK

 SOCCER (2HA): 2 X NIGHTS PER WEEK
THE CONCEPT IS TO ALLOW EACH CLUB TO APPLY AT LEAST 17MM/WEEK USING AN EXTENDED TIME WINDOW OF 9.5HR/NIGHT FOR BASIC MAINTENANCE IRRIGATION FOR A LIMITED PERIOD UNTIL RECYCLED WATER IS AVAILABLE. ONE SPARE NIGHT IS AVAILABLE

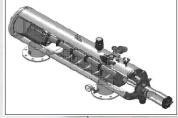
TO THE SPORTS CLUBS WHICH CAN BE BASED ON SEASONAL DEMAND & FIELD CONDITION

POWER SUPPLY CONNECT TO EXISTING MAIN DISTRIBUTION BOARD TO SUB-BOARD IN SHED TOTAL LOAD, PUMPS 44KW ~ 80A 415V PLUS CIRCUITS FOR 240V GENERAL POWER & LIGHTING. DECOMMISSION POWER SUPPLY TO EXISTING PUMP SHED (44KW CAPACITY, 80FLA @ 415V)

BITS CLUBS - WATER SUPPLY PUMP OPTION 3 (FOR ALTERNATIVE REFER INSERT OPTION 4) NEW SHED (9X4X2.7M) & PUMP SYSTEM

COMBINED GOLF (30 L/S*) + SPORTS FIELDS (10 L/S) PUMP UNIT & FILTER FOR BOTH AREAS GRUNDFOS MPC 4X CRNE32-4-2 (11KW / 20FLA @ 415V EACH) 4X DUTY, Q= 40 L/S @ H=70M* AUTO FLUSH SCREEN FILTER , FILTAWORX FW200 (FULL 316SS), C/W 316SS BYPASS MANIFOLD & 3X BUTTERFLY VALVES

3A BUTTERELY VALVES <u>NOTE (*)</u> GOLF PUMP/MAINS CAPACITY INCLUDES FUTURE 5 HOLES FOR TOTAL 18 HOLES, EXISTING 13 HOLES DUTY OF Q= 22 L/S @ H=70M, THEREFORE DUTY FOR EXISTING COMBINED AREAS Q=32 L/S @H=70M TO STAY WITH RECYCLED WATER INFLOW CAPACITY. INFLOW CAPACITY REQUIRES INCREASE WHEN GOLF COURSE IF EXTENDED BEYOND EXISTING AREAS (13 HOLES) NOMINATED



316SS AUTO SCREEN FILTER - BY PASS NOT SHOWN DN200 COMBINED OR DN150 GOLF & DN100 SPORTS NTS

RECYCLED WATER SUPPLY - NEW SUCTION PIPE ROUTE REDIRECT EXISTING PIPE FROM NEAREST CONNECTION POINT, CONCRETE WELL. DECOMMISSION EXISTING PUMP SHED, POWER SUPPLY & CAP PUMP SUCTION NEAREST TO THE NEW CONNECTION POINT. GRC TO PROVIDE AS-CONSTRUCTED DRAWINGS OF RW PIPE FROM EXISTING TANKS WITH DETAILED PIPE SIZES. NOMINAL PEAK FLOW DEMAND 40 L/S FOR GOLF + SPORTS FEILD DEMAND COMBINED, PROPOSED CONCEPT PIPE SIZING 280MM HDPE PN12.5 (LILAC) FOR TOTAL FUTURE DEMAND (BITS 18 HOLES GOLF PLUS BITS SPORTS FIELDS)

POTENTIAL TO BLANK ONE PUMP

BRANCH FOR FUTURE HOLES HOLES

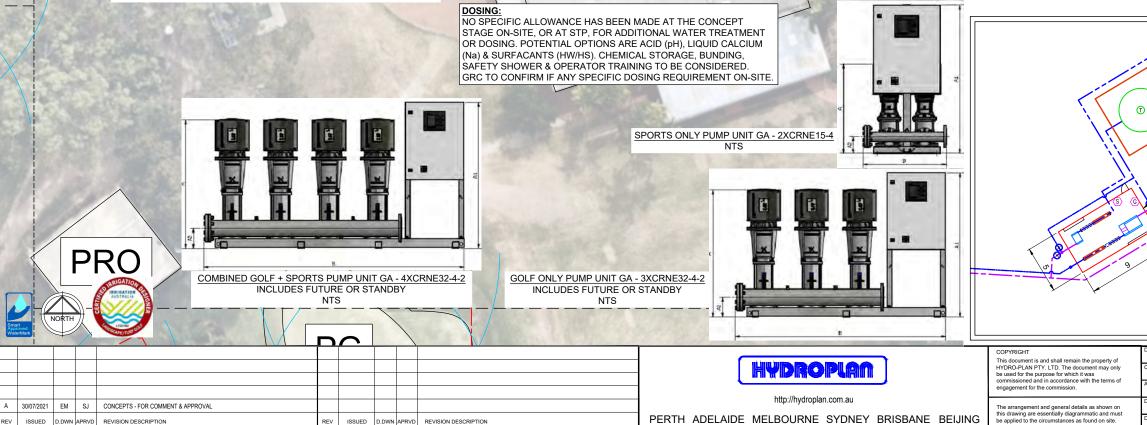
POTENTIAL TO REDUCE SHED TO ~ 8M BY OPTION TO WALL MOUNT PUMP

ISSUED D.DWN APRVD

REVISION DESCRIPTION

CONTROL PANEL, IF REQUIRED

IF REQUIRED OR KEEP IN AS STANDBY



ISSUED D.DWN APRVD REVISION DESCRIPTION PERTH ADELAIDE MELBOURNE SYDNEY BRISBANE BEIJING

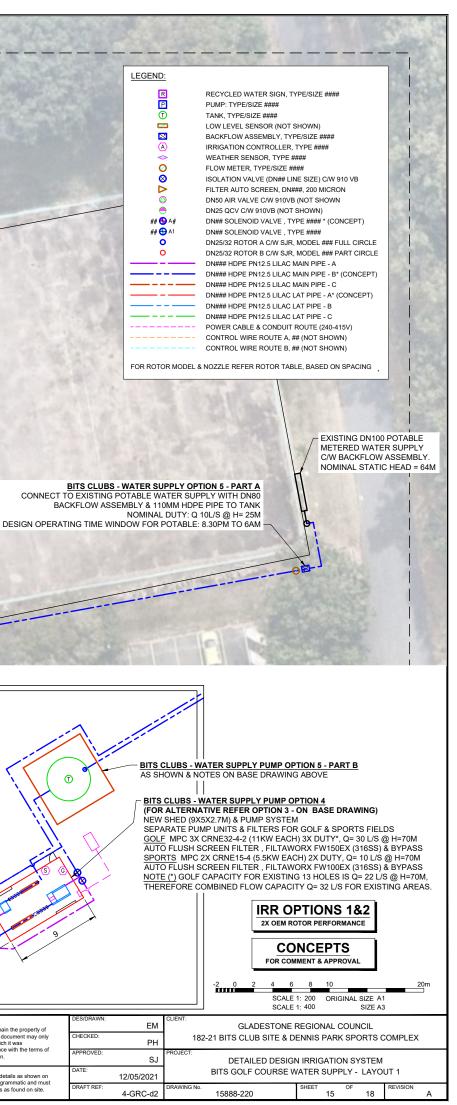
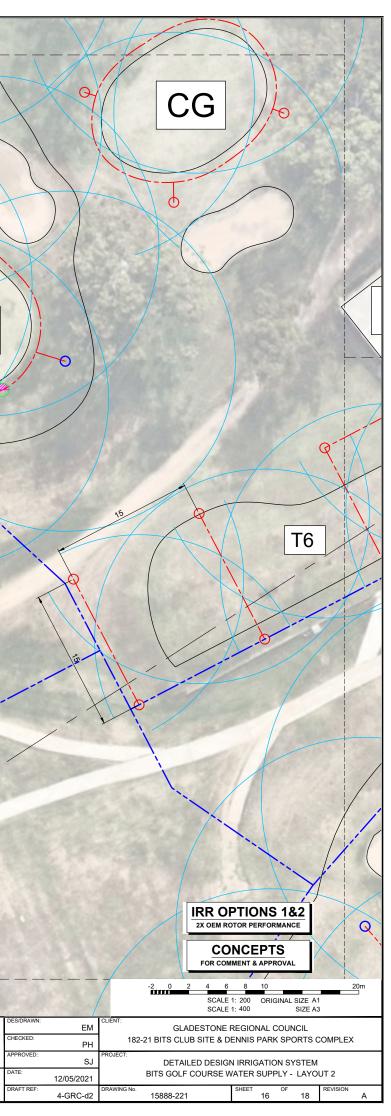
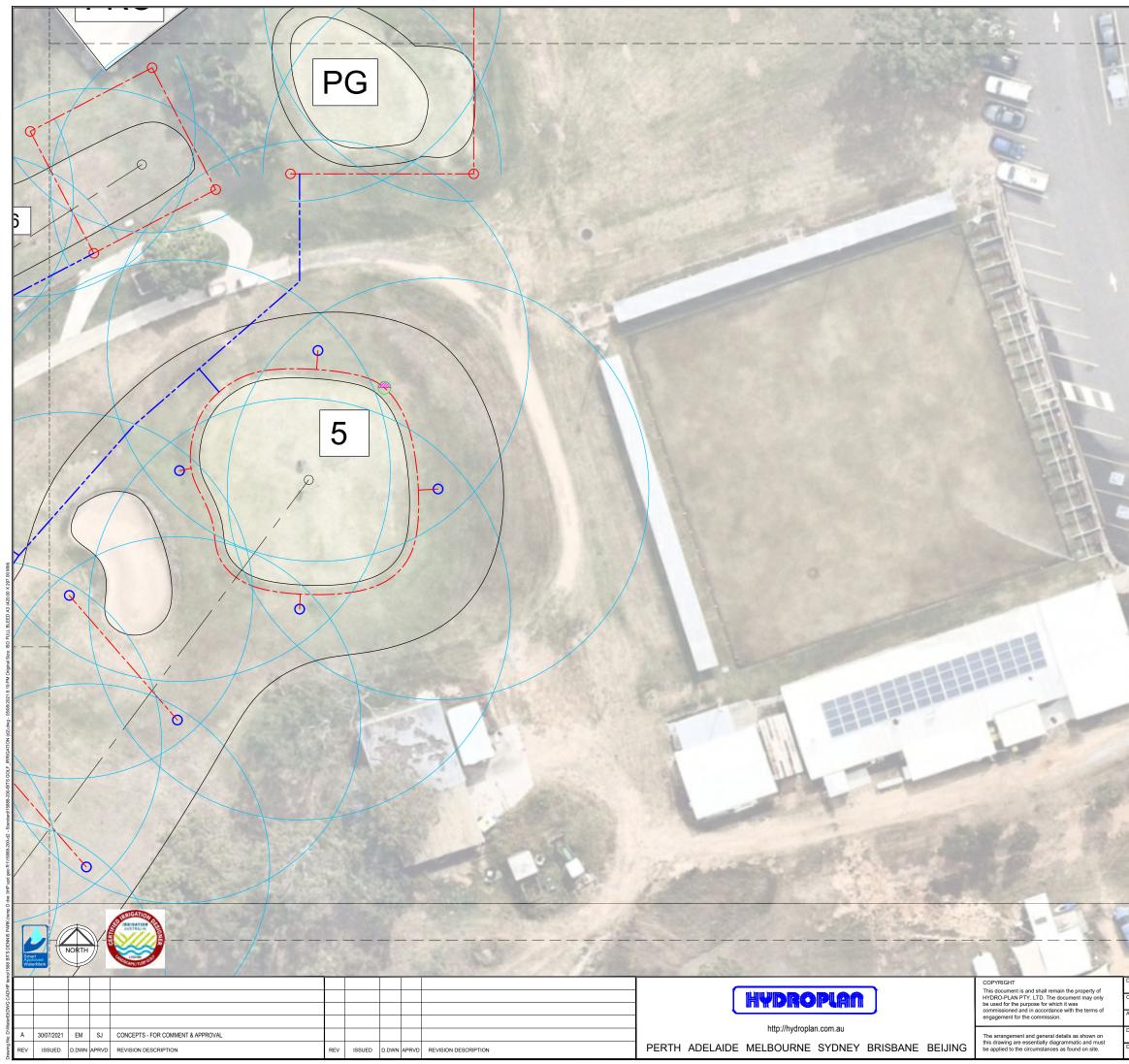


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A 30/07/2021 EM SJ CONCEPTS - FOR COMMENT & APPROVAL		HYDROPLAM http://hydroplan.com.au	COPYRIGHT This document is and shall remain the property of HYDRO-PLAN PTV. LTD. The document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement for the commission. The arrangement and general details as shown on this drawing are essentially diagrammatic and must
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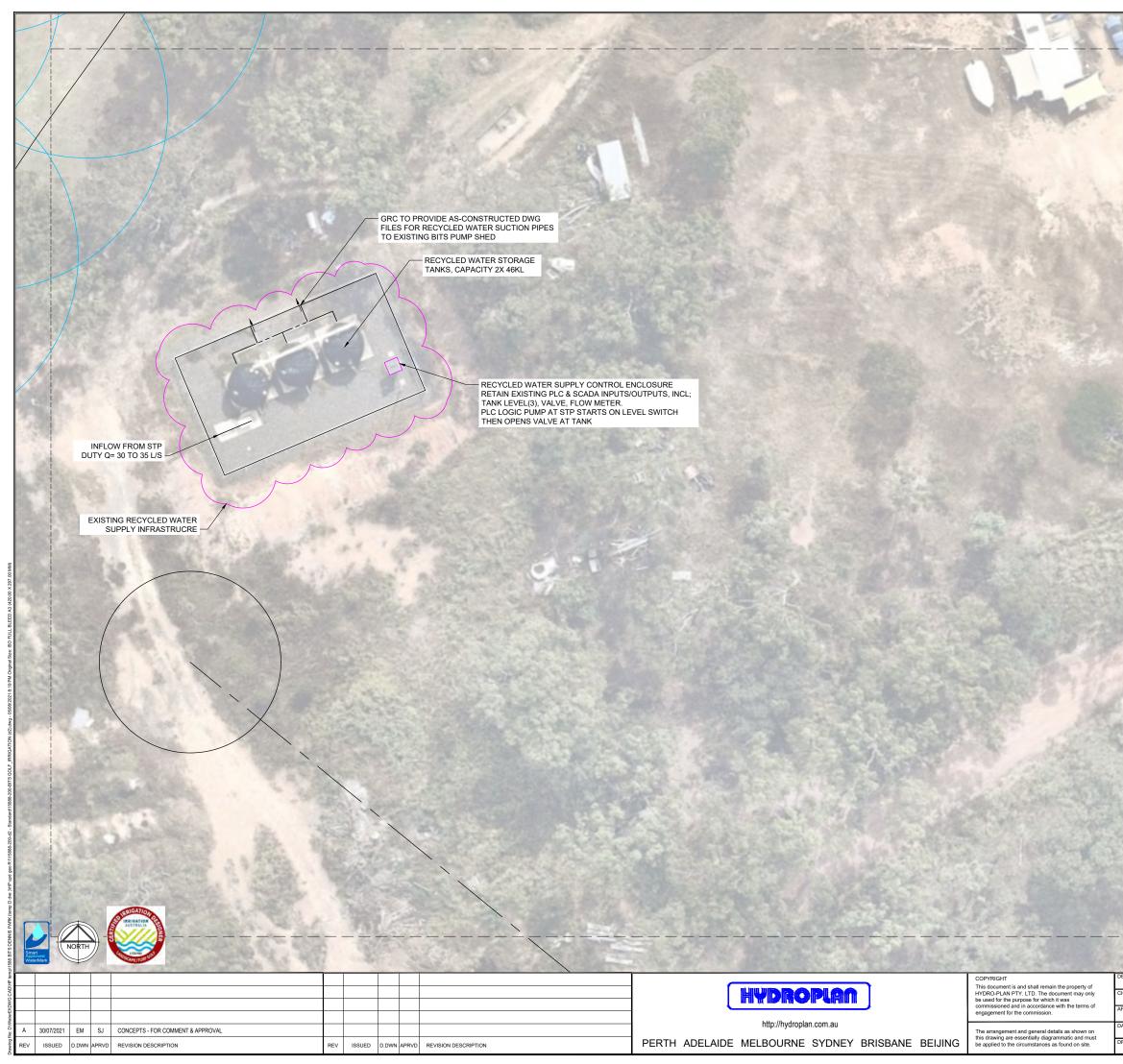
LECEND Image: Construction of the constru		
PUMP: TYPE/SIZE #### ① TANK, TYPE/SIZE #### ① TANK, TYPE/SIZE #### □ LOW LEVEL SENSOR (NOT SHOWN) S BACKFLOW ASSEMBLY, TYPE/SIZE #### ④ IRRIGATION CONTROLLER, TYPE #### ● WEATHER SENSOR, TYPE #### ● FLOW METER, TYPE/SIZE #### ● DNS5 GEV OW 910 VB (NOT SHOWN) ● DN25 GEV CW 910 VB (NOT SHOWN) ● DN25 GEV CW 910 VB (NOT SHOWN) ● DN25 GEV CW 910 VB (NOT SHOWN) ● DN## SOLENOID VALVE, TYPE #### *(CONCEPT) ### ● DN### SOLENOID VALVE, TYPE #### ● DN25/32 ROTOR 8 C/W SI, MODEL ### FULL CIRCLE ● DN### HOP	LEGEND:	
PUMP: TYPE/SIZE #### ① TANK, TYPE/SIZE #### ① TANK, TYPE/SIZE #### □ LOW LEVEL SENSOR (NOT SHOWN) S BACKFLOW ASSEMBLY, TYPE/SIZE #### ④ IRRIGATION CONTROLLER, TYPE #### ● WEATHER SENSOR, TYPE #### ● FLOW METER, TYPE/SIZE #### ● DNS5 GEV OW 910 VB (NOT SHOWN) ● DN25 GEV CW 910 VB (NOT SHOWN) ● DN25 GEV CW 910 VB (NOT SHOWN) ● DN25 GEV CW 910 VB (NOT SHOWN) ● DN## SOLENOID VALVE, TYPE #### *(CONCEPT) ### ● DN### SOLENOID VALVE, TYPE #### ● DN25/32 ROTOR 8 C/W SI, MODEL ### FULL CIRCLE ● DN### HOP		
① TANK, TYPE/SIZE #### □ LOW LEVEL SENSOR (NOT SHOWN) N BACKFLOW ASSEMBLY, TYPE/SIZE #### ▲ IRRIGATION CONTROLLER, TYPE #### ▲ IRRIGATION CONTROLLER, TYPE #### ▲ IRRIGATION CONTROLLER, TYPE #### ▲ ISOLATION VALVE (DN## LINE SIZE) CW 910 VB ▶ FLOW METER, TYPE/SIZE #### ▲ ISOLATION VALVE (DN## LINE SIZE) CW 910 VB ▶ FILTER AUTO SCREEN, DN###, 200 MICRON ▲ DN50 AIR VALVE C/W 910VB (NOT SHOWN) ● DN25 ACV CW 910VB (NOT SHOWN) ● DN25 ACV C/W 910VB (NOT SHOWN) ● DN25 ACV C/W 910VB (NOT SHOWN) ● DN25/32 ROTOR A C/W SJR, MODEL ### FULL CIRCLE ● DN25/32 ROTOR B C/W SJR, MODEL ### PART CIRCLE ● DN25/32 ROTOR B C/W SJR, MODEL ### PART CIRCLE ● DN25/32 ROTOR B C/W SJR, MODEL ### PART CIRCLE ● DN25/32 ROTOR B C/W SJR, MODEL ### PART CIRCLE ● DN### HDPE PN12.5 LILAC MAIN PIPE - A ● DN### HDPE PN12.5 LILAC MAIN PIPE - C ● DN### HDPE PN12.5 LILAC LAT PIPE - C ● DN### HDPE PN12.5 LILAC LAT PIPE - C		
□ LOW LEVEL SENSOR (NOT SHOWN) S BACKFLOW ASSEMBLY, TYPE/SIZE #### ▲ IRRIGATION CONTROLLER, TYPE #### ● WEATHER SENSOR, TYPE #### ● FLOW METER, TYPE/SIZE #### ● ISOLATION VALVE (DN## LINE SIZE) C/W 910 VB ▶ FILTER AUTO SCREEN, DM###, 200 MICRON ● DN50 AIR VALVE (MOT SHOWN) ● DN25 GCV C/W 910VB (NOT SHOWN) ● DN25 GCV C/W 910VB (NOT SHOWN) ● DN25/32 ROTOR A C/W SJR, MODEL ### FULL CIRCLE ● DN25/32 ROTOR A C/W SJR, MODEL ### FULL CIRCLE ● DN25/32 ROTOR A C/W SJR, MODEL ### FULL CIRCLE ● DN25/32 ROTOR A C/W SJR, MODEL ### FULL CIRCLE ● DN25/32 ROTOR A C/W SJR, MODEL ### FULL CIRCLE ● DN25/32 ROTOR A C/W SJR, MODEL ### FULL CIRCLE ● DN25/32 ROTOR A C/W SJR, MODEL ### FULL CIRCLE ● DN25/32 ROTOR A C/W SJR, MODEL ### FULL CIRCLE ● DN### HDPE PN12.5 LILAC MAIN PIPE - A ● DN### HDPE PN12.5 LILAC MAIN PIPE - C ● DN### HDPE PN12.5 LILAC LAT PIPE - C ● DN### HDPE PN12.5 LILAC LAT PIPE - C ● DN### HDPE PN12.5 LILAC LAT P		
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ON50 AIR VALVE C/W 910VB (NOT SHOWN) ● DN25 GCV C/W 910VB (NOT SHOWN) ## ● A1 DN## SOLENOID VALVE, TYPE #### * (CONCEPT) ## ● A1 DN## SOLENOID VALVE, TYPE #### * (CONCEPT) ## ● A1 DN## SOLENOID VALVE, TYPE #### * (CONCEPT) DN25/32 ROTOR A C/W SJR, MODEL ### PART CIRCLE DN25/32 ROTOR A C/W SJR, MODEL ### PART CIRCLE O DN25/32 ROTOR A C/W SJR, MODEL ### PART CIRCLE D DN### HDPE PN12.5 LILAC MAIN PIPE - A DN### HDPE PN12.5 LILAC MAIN PIPE - B DN### HDPE PN12.5 LILAC LAT PIPE - A* (CONCEPT) DN### HDPE PN12.5 LILAC LAT PIPE - C DN### HDPE PN12.5 LILAC LAT PIPE - C POWER CABLE & CONDUIT ROUTE (240-415V) CONTROL WIRE ROUTE A, ## (NOT SHOWN) CONTROL WIRE ROUTE A, ## (NOT SHOWN) CONTROL WIRE ROUTE B, ## (NOT SHOWN)	(A)	
ON50 AIR VALVE C/W 910VB (NOT SHOWN) ● DN25 GCV C/W 910VB (NOT SHOWN) ## ● A1 DN## SOLENOID VALVE, TYPE #### * (CONCEPT) ## ● A1 DN## SOLENOID VALVE, TYPE #### * (CONCEPT) ## ● A1 DN## SOLENOID VALVE, TYPE #### * (CONCEPT) DN25/32 ROTOR A C/W SJR, MODEL ### PART CIRCLE DN25/32 ROTOR A C/W SJR, MODEL ### PART CIRCLE O DN25/32 ROTOR A C/W SJR, MODEL ### PART CIRCLE D DN### HDPE PN12.5 LILAC MAIN PIPE - A DN### HDPE PN12.5 LILAC MAIN PIPE - B DN### HDPE PN12.5 LILAC LAT PIPE - A* (CONCEPT) DN### HDPE PN12.5 LILAC LAT PIPE - C DN### HDPE PN12.5 LILAC LAT PIPE - C POWER CABLE & CONDUIT ROUTE (240-415V) CONTROL WIRE ROUTE A, ## (NOT SHOWN) CONTROL WIRE ROUTE A, ## (NOT SHOWN) CONTROL WIRE ROUTE B, ## (NOT SHOWN)	\diamond	
ON50 AIR VALVE C/W 910VB (NOT SHOWN) ● DN25 GCV C/W 910VB (NOT SHOWN) ## ● A1 DN## SOLENOID VALVE, TYPE #### * (CONCEPT) ## ● A1 DN## SOLENOID VALVE, TYPE #### * (CONCEPT) ## ● A1 DN## SOLENOID VALVE, TYPE #### * (CONCEPT) DN25/32 ROTOR A C/W SJR, MODEL ### PART CIRCLE DN25/32 ROTOR A C/W SJR, MODEL ### PART CIRCLE O DN25/32 ROTOR A C/W SJR, MODEL ### PART CIRCLE D DN### HDPE PN12.5 LILAC MAIN PIPE - A DN### HDPE PN12.5 LILAC MAIN PIPE - B DN### HDPE PN12.5 LILAC LAT PIPE - A* (CONCEPT) DN### HDPE PN12.5 LILAC LAT PIPE - C DN### HDPE PN12.5 LILAC LAT PIPE - C POWER CABLE & CONDUIT ROUTE (240-415V) CONTROL WIRE ROUTE A, ## (NOT SHOWN) CONTROL WIRE ROUTE A, ## (NOT SHOWN) CONTROL WIRE ROUTE B, ## (NOT SHOWN)	V	
ON50 AIR VALVE C/W 910VB (NOT SHOWN) ● DN25 GCV C/W 910VB (NOT SHOWN) ## ● A1 DN## SOLENOID VALVE, TYPE #### * (CONCEPT) ## ● A1 DN## SOLENOID VALVE, TYPE #### * (CONCEPT) ## ● A1 DN## SOLENOID VALVE, TYPE #### * (CONCEPT) DN25/32 ROTOR A C/W SJR, MODEL ### PART CIRCLE DN25/32 ROTOR A C/W SJR, MODEL ### PART CIRCLE O DN25/32 ROTOR A C/W SJR, MODEL ### PART CIRCLE D DN### HDPE PN12.5 LILAC MAIN PIPE - A DN### HDPE PN12.5 LILAC MAIN PIPE - B DN### HDPE PN12.5 LILAC LAT PIPE - A* (CONCEPT) DN### HDPE PN12.5 LILAC LAT PIPE - C DN### HDPE PN12.5 LILAC LAT PIPE - C POWER CABLE & CONDUIT ROUTE (240-415V) CONTROL WIRE ROUTE A, ## (NOT SHOWN) CONTROL WIRE ROUTE A, ## (NOT SHOWN) CONTROL WIRE ROUTE B, ## (NOT SHOWN)	Ď	
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## ⊕ A1 DN## SOLENOID VALVE, TYPE #### O DN25/32 ROTOR A C/W SJR, MODEL ### FULL CIRCLE O DN25/32 ROTOR B C/W SJR, MODEL ### FULL CIRCLE O DN25/32 ROTOR B C/W SJR, MODEL ### FULL CIRCLE O DN25/32 ROTOR B C/W SJR, MODEL ### FULL CIRCLE O DN### HDPE PN12.5 LILAC MAIN PIPE - A DN### HDPE PN12.5 LILAC MAIN PIPE - B DN### HDPE PN12.5 LILAC LAT PIPE - C DN### HDPE PN12.5 LILAC LAT PIPE - B DN### HDPE PN12.5 LILAC LAT PIPE - C POWER CABLE & CONDUIT ROUTE (240-415V) CONTROL WIRE ROUTE A, ## (NOT SHOWN) CONTROL WIRE ROUTE B, ## (NOT SHOWN) CONTROL WIRE ROUTE B, ## (NOT SHOWN)	0	DN25 QCV C/W 910VB (NOT SHOWN)
O DN25/32 ROTOR A C/W SJR, MODEL ### FULL CIRCLE O DN25/32 ROTOR B C/W SJR, MODEL ### PART CIRCLE D DD125/32 ROTOR B C/W SJR, MODEL ### PART CIRCLE D DM### HDPE PN12.5 LILAC MAIN PIPE - A D DN### HDPE PN12.5 LILAC MAIN PIPE - B D DN### HDPE PN12.5 LILAC LAT PIPE - A* (CONCEPT) DN### HDPE PN12.5 LILAC LAT PIPE - A* DN### HDPE PN12.5 LILAC LAT PIPE - B DN### HDPE PN12.5 LILAC LAT PIPE - C POWER CABLE & CONDUIT ROUTE (240-415V) CONTROL WIRE ROUTE A, ## (NOT SHOWN) CONTROL WIRE ROUTE B, ## (NOT SHOWN)		
O DN25/32 ROTOR B C/W SJR, MODEL ### PART CIRCLE DN### HDPE PN12.5 LILAC MAIN PIPE - A DN### HDPE PN12.5 LILAC MAIN PIPE - B* (CONCEPT) DN### HDPE PN12.5 LILAC MAIN PIPE - B* (CONCEPT) DN### HDPE PN12.5 LILAC LAT PIPE - A* (CONCEPT) DN### HDPE PN12.5 LILAC LAT PIPE - A DN### HDPE PN12.5 LILAC LAT PIPE - B DN### HDPE PN12.5 LILAC LAT PIPE - C POWER CABLE & CONDUIT ROUTE (240-415V) CONTROL WIRE ROUTE A, ## (NOT SHOWN) CONTROL WIRE ROUTE B, ## (NOT SHOWN)		
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DN### HDPE PN12.5 LILAC MAIN PIPE - B* (CONCEPT) DN### HDPE PN12.5 LILAC MAIN PIPE - C DN### HDPE PN12.5 LILAC LAT PIPE - C DN### HDPE PN12.5 LILAC LAT PIPE - B DN### HDPE PN12.5 LILAC LAT PIPE - C POWER CABLE & CONDUIT ROUTE (240-415V) CONTROL WIRE ROUTE A, ## (NOT SHOWN) CONTROL WIRE ROUTE B, ## (NOT SHOWN)	<u> </u>	
DN### HDPE PN12.5 LILAC MAIN PIPE - C DN### HDPE PN12.5 LILAC LAT PIPE - A* (CONCEPT) DN### HDPE PN12.5 LILAC LAT PIPE - A* (CONCEPT) DN### HDPE PN12.5 LILAC LAT PIPE - C POWER CABLE & CONDUIT ROUTE (240-415V) CONTROL WIRE ROUTE A, ## (NOT SHOWN) CONTROL WIRE ROUTE B, ## (NOT SHOWN)		
DN### HDPE PN12.5 LILAC LAT PIPE - B DN### HDPE PN12.5 LILAC LAT PIPE - C POWER CABLE & CONDUIT ROUTE (240-415V) CONTROL WIRE ROUTE A, ## (NOT SHOWN) CONTROL WIRE ROUTE B, ## (NOT SHOWN)		
DN### HDPE PN12.5 LILAC LAT PIPE - C POWER CABLE & CONDUIT ROUTE (240-415V) CONTROL WIRE ROUTE A, ## (NOT SHOWN) CONTROL WIRE ROUTE B, ## (NOT SHOWN)		DN### HDPE PN12.5 LILAC LAT PIPE - A* (CONCEPT)
POWER CABLE & CONDUIT ROUTE (240-415V) CONTROL WIRE ROUTE A, ## (NOT SHOWN) CONTROL WIRE ROUTE B, ## (NOT SHOWN)		
CONTROL WIRE ROUTE A, ## (NOT SHOWN) CONTROL WIRE ROUTE B, ## (NOT SHOWN)		
CONTROL WIRE ROUTE B, ## (NOT SHOWN)		
FOR ROTOR MODEL & NOZZLE REFER ROTOR TABLE, BASED ON SPACING		
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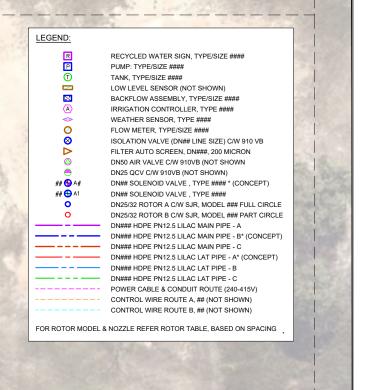
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 20m

 SCALE 1: 200
 ORIGINAL SIZE A1
 SCALE 1: 400
 SIZE A3
 -2 0 2 EM GLADESTONE REGIONAL COUNCIL 182-21 BITS CLUB SITE & DENNIS PARK SPORTS COMPLEX PH SJ DETAILED DESIGN IRRIGATION SYSTEM BITS GOLF COURSE WATER SUPPLY - LAYOUT 3 12/05/2021 RAFT RE 4-GRC-d2 15888-222 17 18 А

IRR OPTIONS 1&2 2X OEM ROTOR PERFORMANCE CONCEPTS FOR COMMENT & APPROVAL





		SCALE 1: 200 ORIGINAL SIZE A1
03633		SCALE 1: 400 SIZE A3
DES/DRAWN:	EM	CLIENT: GLADESTONE REGIONAL COUNCIL
CHECKED:	PH	182-21 BITS CLUB SITE & DENNIS PARK SPORTS COMPLEX
APPROVED:	SJ	PROJECT: DETAILED DESIGN IRRIGATION SYSTEM
DATE:	12/05/2021	BITS GOLF COURSE WATER SUPPLY - LAYOUT 4
DRAFT REF:	4-GRC-d2	DRAWING No. OF REVISION 15888-223 18 18 A

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IRR OPTIONS 1&2 2X OEM ROTOR PERFORMANCE CONCEPTS FOR COMMENT & APPROVAL

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