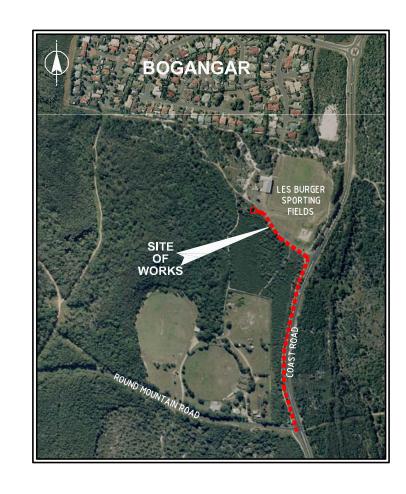
TWEED SHIRE COUNCIL HASTINGS POINT RECYCLED WATER IRRIGATION SCHEME

DRAWING SCHEDULE

DRAWING NUMBER:	DESCRIPTION:	REV:
WT06031/01	DRAWING SCHEDULE	С
WT06031/02	GENERAL NOTES	A
WT06031/03	PROJECT SITE PLAN	В
WT06031/04	PROJECT PLAN & LONGITUDINAL SECTION SHEET 1 OF 4	С
WT06031/05	PROJECT PLAN & LONGITUDINAL SECTION SHEET 2 OF 4	С
WT06031/06	PROJECT PLAN & LONGITUDINAL SECTION SHEET 3 OF 4	С
WT06031/07	PROJECT PLAN & LONGITUDINAL SECTION SHEET 4 OF 4	С
WT06031/08	SCHEMATIC PLANS	В
WT06031/09	BOOSTER PUMP AND COVER DETAIL DRAWINGS	В
WT06031/10	SITE LAYOUT PLAN - HYDROPLAN	A
WT06031/11	IRRIGATION DETAILS SHEET 1 - HYDROPLAN	A
WT06031/12	IRRIGATION DETAILS SHEET 2 - HYDROPLAN	В



PRELIMINARY ISSUE

	NOTE: FULL SIZE ON ORIGINAL.	'			0 мм 10 мм 20 мм 30 мм 40 мм 50 мм	100 ant	150 мм	200 mm	250 mm	ACAD FILE No	G:_AUTOCAD DRAWINGS\JacquiF\WT06031- Hastings	Point\WT06031-01 to 09.dwg
ISSUE	AMENDMENT DETAILS	INITIAL	S DATE	TWEED SHIRE COUNCIL	www.tweed.nsw.gov.au	Facsimile: (07) 5578 4295 www.mwhglobal.com	VERTICAL DATUM	AHD —			DRAWING SCHEDULE	11 D O
A	ORIGINAL ISSUE	R.C.	1.2007		FAX 02 66727513	Telephone: (07) 5596 9600	CHECKED N.T HORIZONTAL DATUM	1.2007 PROGRAM NO. MGA REDUCTION RATE		-	TITLE PAGE	ISSUE A B C
В	GENERAL AMENDMENTS	N.R.	1.2008		PHONE 02 66702400	SUITE 4/60 NERANG STREET GOLD COAST QLD 4211	DRAWN R.C.	1.2007 SURVEY NO.		PLAN TITLE:	TITLE BACE	SHEET 1 OF 12 SHEETS
С	AMEND 100mm Ø ALIGNMENT	JLT	9.2008		MURWILLUMBAH, NEW SOUTH WALES, 2484		DESIGNED G.H	1.2007 DESIGN NO.	A1055100-C-001		RECYCLED WATER IRRIGATION SCHEME	"100001/01
					COUNCIL OFFICES TUMBULGUM ROAD,	(#) MWH	DATE:	4PRIL 2009	RPEQ No.:		HASTINGS POINT	WT06031/01
							OFFICE MANAGER:	Marin XX	RPEQ No.:	PROJECT:		DRAWING NUMBER:
								\sim				

GENERAL NOTES

GENERAL

- G1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCY SHALL BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
- G2. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE RELEVANT AND CURRENT SAA CODES AND WITH THE BY-LAWS AND ORDINANCES OF THE RELEVANT BUILDING AUTHORITIES EXCEPT WHERE VARIED BY THESE DRAWINGS AND THE SPECIFICATION
- G2. ALL SETOUT DIMENSIONS SHOWN SHALL BE VERIFIED BY THE CONTRACTOR ON SITE BEFORE WORK COMMENCES. DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONS.
- G3. DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED. TEMPORARY BRACING, BATTERS AND MEANS OF FLOATATION PREVENTION FOR INGROUND TANKS SHALL BE PROVIDED BY THE CONTRACTOR TO KEEP THE WORKS AND EXCAVATIONS STABLE AT ALL TIMES
- G4. ALL DIMENSIONS ARE IN MILLIMETRES U.N.O.
- GS PRECAST ELEMENTS HAVE BEEN DESIGNED FOR IN-SERVICE LOADS EXTRA REINFORCEMENT TO CATER FOR LIFTING, HANDLING & PROPPING LOADS IS TO BE DESIGNED BY THE PRECAST

BACKFILL AROUND STRUCTURES

B1. UNLESS NOTED OR SHOWN OTHERWISE IN THE DRAWINGS OR SPECIFICATION, ALL WORKMANSHIP & MATERIALS FOR EARTHWORKS SHALL BE IN ACCORDANCE WITH AS 3798 CURRENT ADDITION WITH AMENDMENTS, EXCEPT FOR WHERE VARIED BY DS502 OF THE TENDER DOCUMENTS. BACKFILL TO STRUCTURES (UP TO 1m FROM WALL) TO CONSIST OF CLEAN GRANULAR FILL PLACED IN 300mm THICK LAYERS AND COMPACTED USING HAND HELD MECHANICAL COMPACTORS, EXCEPT AT ROADS WHERE THE TOP ADDITION OF FILL CAN BE COMPACTED LISING A NON VIRRATING ROLLER. VIBRATING ROLLERS SHALL NOT BE USED WITHIN 3m OF

FOUNDATIONS & GEOTECHNICAL REPORTS

- F1. PROOF ROLLING THE FORMATION SHALL CONSIST OF A MINIMUM OF 10 PASSES WITH A 10 TONNE VIBRATING ROLLER. REPLACE SOFT WET LOOSE MATERIAL WITH APPROVED GRANULAR MATERIAL, COMPACT GRANULAR MATERIAL IN LAYERS AS SPECIFIED.
- F2. NOT USED.
- F3. AN APPROVED GEOTECHNICAL ENGINEER SHALL BE ENGAGED BY THE CONTRACTOR TO INSPECT THE FOUNDATIONS AND EXCAVATION BATTERS AND REPORT ON THEIR SUITABILITY FOR THIS PROJECT
- F4. FOOTINGS HAVE BEEN DESIGNED FOR A SITE REACTIVITY CLASSIFICATION OF 'CLASS M' LINLESS NOTED OTHERWISE REFER TO FOOTING DRAWINGS FOR DESIGN PARAMETERS.
- F5. DO NOT CHANGE SPECIFIED FOOTING LEVELS UNLESS AUTHORISED TO DO SO BY THE ENGINEER. WHERE OVER EXCAVATION IS REQUIRED TO ACHIEVE THE SPECIFIED BEARING PRESSURES BACKFILL THE ADDITIONAL EXCAVATION WITH N20 MIX CONCRETE
- F6. NOT USED.

- FINISHED CONCRETE SHALL BE A DENSE HOMOGENEOUS MASS, COMPLETELY FILLING THE FORMWORK, THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS AND VOIDS. CONCRETE SHALL BE COMPACTED WITH MECHANICAL VIBRATORS.
- UNLESS NOTED OTHERWISE CLEAR COVER TO REINFORCEMENT
- MAINTAIN COVER TO REINFORCEMENT AT CHAMFERS, DRIP GROOVES, REGLETS, ETC.
- NO HOLES. CHASES OR EMBEDMENT OF PIPES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ENGINEER.
- CONSTRUCTION JOINTS WHERE NOT SHOWN SHALL BE LOCATED TO THE APPROVAL OF THE ENGINEER.
- DURING AND IMMEDIATELY FOLLOWING POURING, THE CONCRETE SHALL BE PROTECTED FROM WIND AND SUN. AWNINGS AND WIND BREAKS ARE TO BE UTILISED FOR THIS PURPOSE. FOR ACCEPTABLE CURING METHODS AND MINIMUM CURING TIMES REFER TO CONCRETE SPECIFICATION.
- CONCRETE ELEMENT SIZES DO NOT INCLUDE APPLIED FINISHES
- ALL STRUCTURES CAST AGAINST GROUND SHALL BE LAID ON 50 BLINDING CONCRETE WITH POLYETHYLENE ON TOP. UNLESS NOTED OTHERWISE
- C10. THE MAXIMUM SLUMP SHALL BE 80mm.
- C11. NO ADMIXTURES SHALL BE USED WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER EXCEPT IN STANDARD CONTROLLED GRADE CONCRETE. CALCIUM CHLORIDE ADMIXTURES WILL NOT BE PERMITTED UNDER ANY
- C12. COMPACT ALL CONCRETE DURING PLACEMENT USING MECHANICAL
- C13. PROVIDE A 20X20 CHAMFER TO ALL CORNERS INCLUDING RE-ENTRANT CORNERS AND EDGES OF ALL EXPOSED CONCRETE U.N.O.

FORMWORK

- FW1. UNLESS NOTED OTHERWISE ALL CONCRETE FORMWORK SHALL BE AS PER THE SPECIFICATION.
- FW2. DESIGN AND CONSTRUCTION AND STRIPPING TIMES SHALL COMPLY WITH AS 3610 AND AS 3600 UNLESS OTHERWISE NOTED
- EW3 THE DESIGN CERTIFICATION CONSTRUCTION AND PERFORMANCE OF THE FORMWORK AND FAI SEWORK IS THE RESPONSIBILITY OF
- FW4. FOR DETAILS ON WALL TIES/REPAIR PLUGS REFER TO THE TECHENICAL SPECIFICATION.
- FW5. FINISH CONCRETE SURFACES ASA SHOWN BELOW:
 - (A) FORMED SURFACES: EXPOSED SURFACES HIDDEN SURFACES
 - (B) FINISHES AS LAID: EXPOSED SURFACES HIDDED SURFACES
- STEEL TROWEL WOOD FLOAT

CONCRETE REINFORCEMENT

- CR1 REINFORCEMENT SYMBOLS:
 - DENOTES DEFORMED GRADE 500 N BARS TO AS 4671 DENOTES GRADE 250 R HOT ROLLED PLAIN BARS TO AS 1302
- DENOTES HARD-DRAWN WIRE SQUARE REINFORCING FABRIC TO



- REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY IN TRUE PROJECTION.
- CR3. THE FOLLOWING MINIMUM COG LENGTHS SHALL APPLY TO ALL

BAR	COG(C)
N12	200
N16	200
N20	300
N24	300
N28	350
N32	350

- CRA SLAB REINFORCEMENT SHALL EXTEND AT LEAST 12 BAR DIAMETERS ONTO SUPPORTS AND 50 PERCENT OF BOTTOM REINFORCEMENT SHALL BE COGGED TO ACHIEVE ANCHORAGE AT SIMPLY SUPPORTED ENDS.
- CR5. SPLICE REINFORCEMENT ONLY AT LOCATIONS SHOWN ON DRAWINGS OR AS APPROVED BY THE SUPERINTENDENT. LAP LENGTHS TO COMPLY WITH AS 3600 OR FOLLOWING UNLESS NOTED OTHERWISE. THE MINIMUM LAP FOR ALL FABRICS SHALL BE TWO CROSS WIRES ONE
- (LAP LENGTHS IN BRACKETS TO BE USED FOR HORIZ BARS WITH MORE THAN 300mm OF CONCRETE CAST BELOW BAR)
- NOTES : DO NOT INTERPOLATE INTERMEDIATE VALUES OF LAP LENGTHS . STAGGER LAPS WHERE POSSIBLE. WHERE MORE THAN 50% OF BARS ARE LAPPED AT THE ONE LOCATION LAP LENGTHS SHOWN IN THE TABLE ABOVE SHALL BE INCREASED BY 30%
- CR6. JOGGLES TO BARS SHALL BE 1 BAR DIAMETER OVER A LENGTH OF 12 BAR DIAMETERS
- CR7. THE FOLLOWING NOTATIONS MAY HAVE BEEN USED ON THE DRAWINGS:

LV	:	LENGTH VARIES
CV	:	COG VARIES
EW	:	EACH WAY
EF	:	EACH FACE
S٧	:	SHAPE VARIES

BOTTOM REINFORCEMENT - LAID FIRST B2 BOTTOM REINFORCEMENT - LAID SECOND T1 TOP REINFORCEMENT - LAID FIRST TOP REINFORCEMENT - LAID SECOND TOP AND BOTTOM

- REINFORCEMENT SHALL BE SUPPLIED AND BENT IN ACCORDANCE WITH AS3600. REBENDING OF REINFORCEMENT WITH OR WITHOUT HEATING IS NOT PERMITTED WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER
- USE MECHANICAL SPLICES ONLY WHERE SPECIFIED OR APPROVED BY THE STRUCTURAL ENGINEER
- CR10. DO NOT WELD REINFORCEMENT WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER.
- CR11. SUPPORT ALL REINFORCEMENT SECURELY IN ITS CORRECT POSITION DURING CONCRETING BY APPROVED PLASTIC TIPPED BAR CHAIRS, SPACERS OR SUPPORT BARS. SUPPORT SPACINGS SHALL BE SUCH AS TO POSITION AND MAINTAIN THE REINFORCEMENT TO THE TOLERANCES OF AS3600 AND SHALL BE AT 800mm MAXIMUM CENTRES IN SLABS AND 1000mm IN WALLS.

		BAR SIZE									
LOCATION	f'c	N12	N16	N20	N24	N28	N32				
BARS IN SLABS/WALLS WITH CLEAR DISTANCE BETWEEN PARALLEL BARS NOT LESS THAN 150mm	40	300 (375)	400 (500)	500 (625)	600 (750)	700 (875)	825 (1050)				
LONGITUDINAL BARS IN BEAMS AND COLUMNS	40	300 (375)	400 (500)	500 (625)	650 (825)	850 (1075)	1075 (1350)				
ALL OTHER LONGITUDINAL BARS	40	300 (375)	400 (500)	500 (625)	700 (875)	925 (1175)	1175 (1475)				

CONCRETE

- C1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 CURRENT EDITION WITH AMENDMENTS EXCEPT WHERE VARIED BY AS 3735 AND DS505 OF THE TECHNICAL
- C2. CONCRETE MIXES TO COMPLY WITH

MIX N20 FOR BLINDING LAYERS, FILLING UP OVER EXCAVATIONS BENEATH STRUCTURES AND UNREINFORCED

MIX N25 FOR REINFORCED FOOT PATHS, THRUST BLOCKS AND NON-CRITICAL FLEMENTS

MIX N32 STRUCTURAL CONCRETE FOR BUILDINGS AND NON-WATER RETAINING STRUCTURES

MIX \$40 FOR WATER RETAINING STRUCTURES.

PRELIMINARY ISSUE

ORIGINAL ISSUE N.D.B 1.2007 AMENDMENT DETAILS INITIALS DATE

NOTE: FULL SIZE ON ORIGINAL.



MURWILLUMBAH, NEW SOUTH WALES, 2484 PHONE 02 66702400 02 66727513 www.tweed.nsw.gov.gu

0 mm 10 mm 20 mm 30 mm 40 mm 50 mm

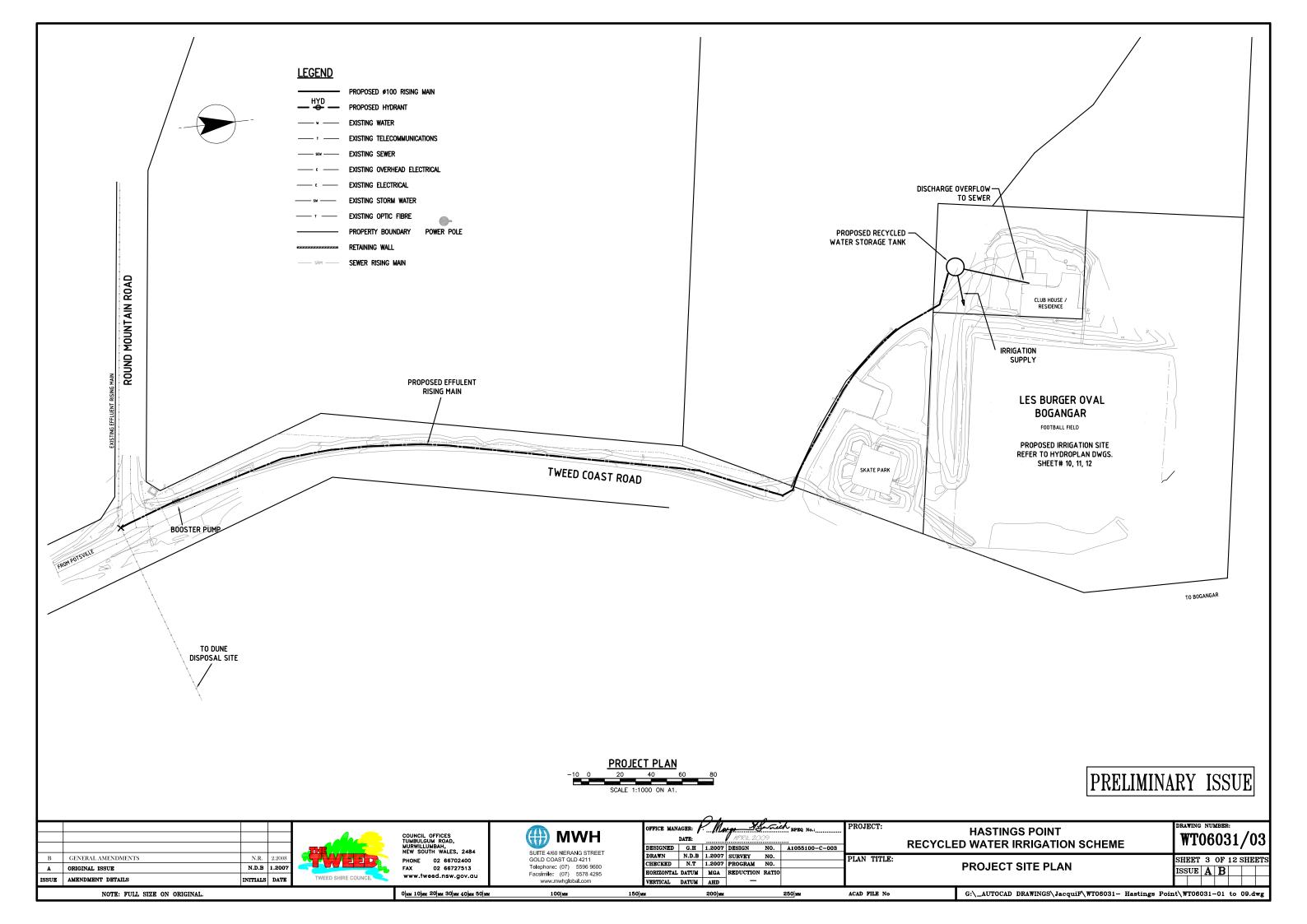


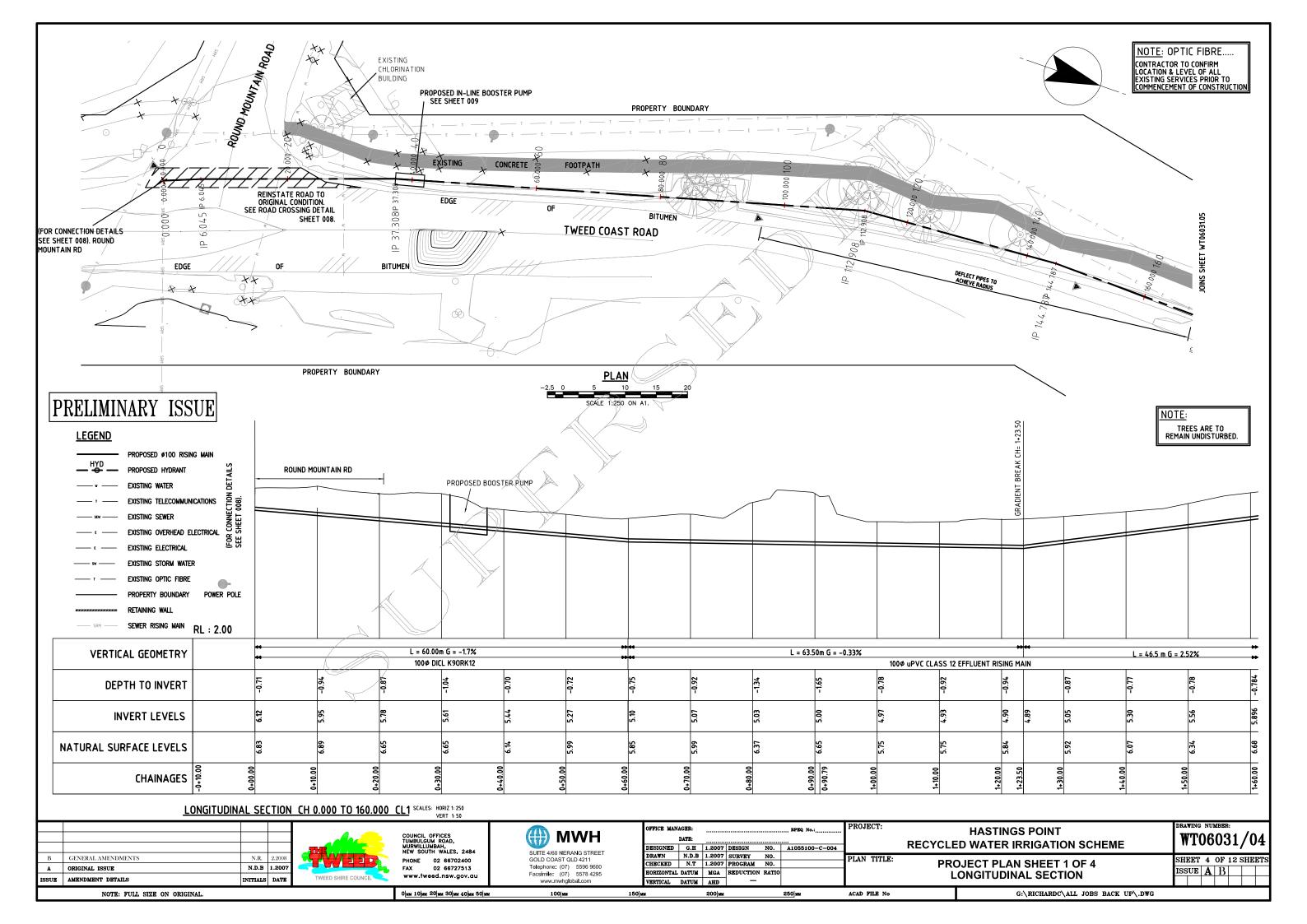
100|мм

BANA/III	OFFICE MANA	AGER:	[N.s	/		RPEQ No.:
MWH		DATE:		NPRIL 20	09	••••
	DESIGNED	G.H	1.2007	DESIGN	NO.	A1055100-C-002
E 4/60 NERANG STREET D COAST QLD 4211	DRAWN	N.D.B	1.2007	SURVEY	NO.	
phone: (07) 5596 9600	CHECKED	N.T	1.2007	PROGRAM	NO.	
imile: (07) 5578 4295	HORIZONTAL	DATUM	MGA	REDUCTION	RATIO	
www.mwhglobal.com	VERTICAL	DATUM	AHD	1 –		

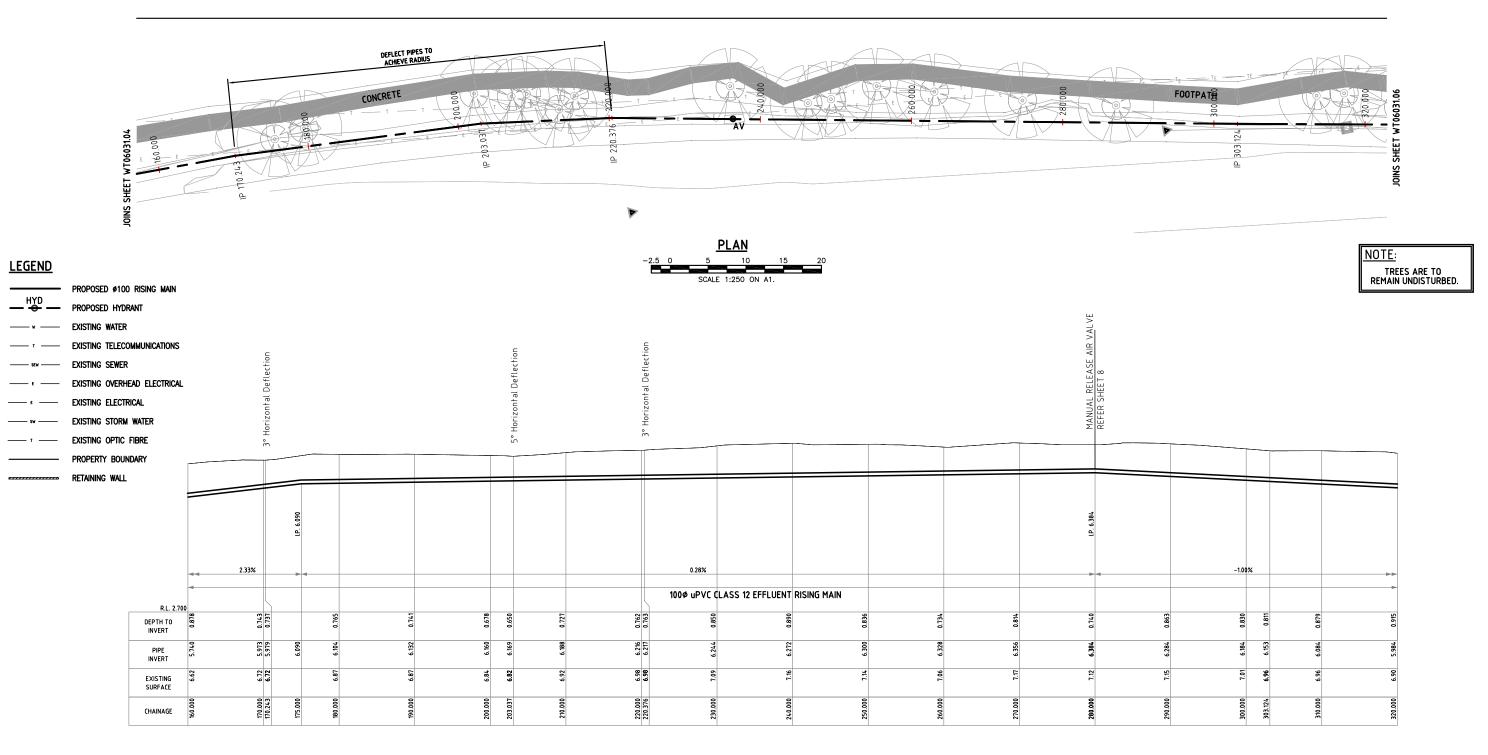
150 мм

CE MAN	AGER: /	[N.s	APRIL 20	09	RPEQ No.:	PROJECT:	BECVCLE	HASTINGS POINT ED WATER IRRIGATION SCHEME	WT06031/02						
IGNED	G.H	1.2007	DESIGN	NO.	A1055100-C-002		RECTULE	D WATER IRRIGATION SCHEWE		l "	_	-		-/	٠.٠
WN	N.D.B	1.2007	SURVEY	NO.		PLAN TITLE:				CII	DDT	- 2	ΛF ·	2 61	IEETS
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ZONTAL	DATUM	MGA	REDUCTION	RATIO			GENERAL NOTES					A			
TICAL	DATUM	AHD	_												
		200 max			250 mm	ACAD FILE No		G:_AUTOCAD DRAWINGS\JacquiF\WT06031- Hasting	e Poir	ıt\W	T06	031-	-01	o 09	dwg.







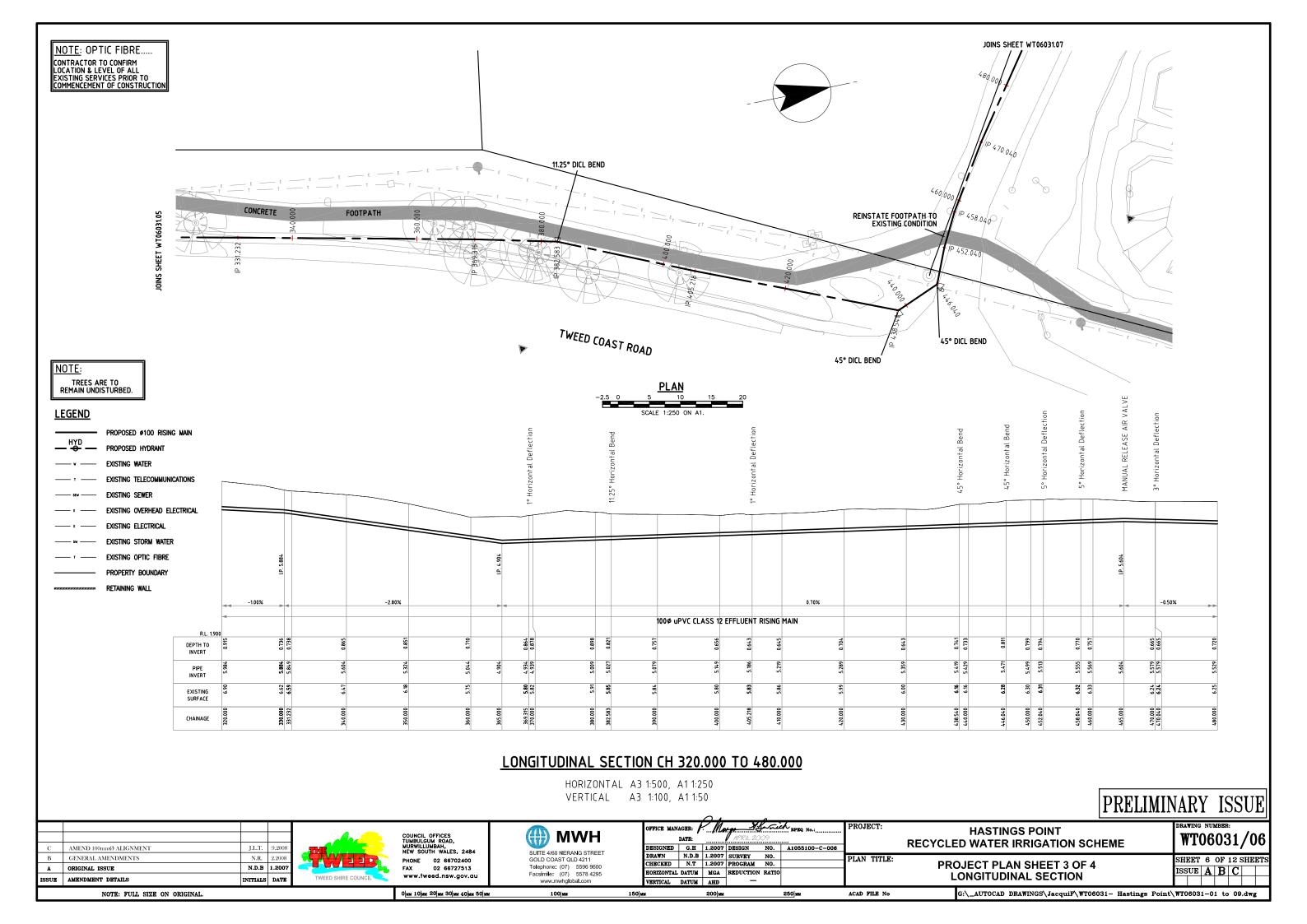


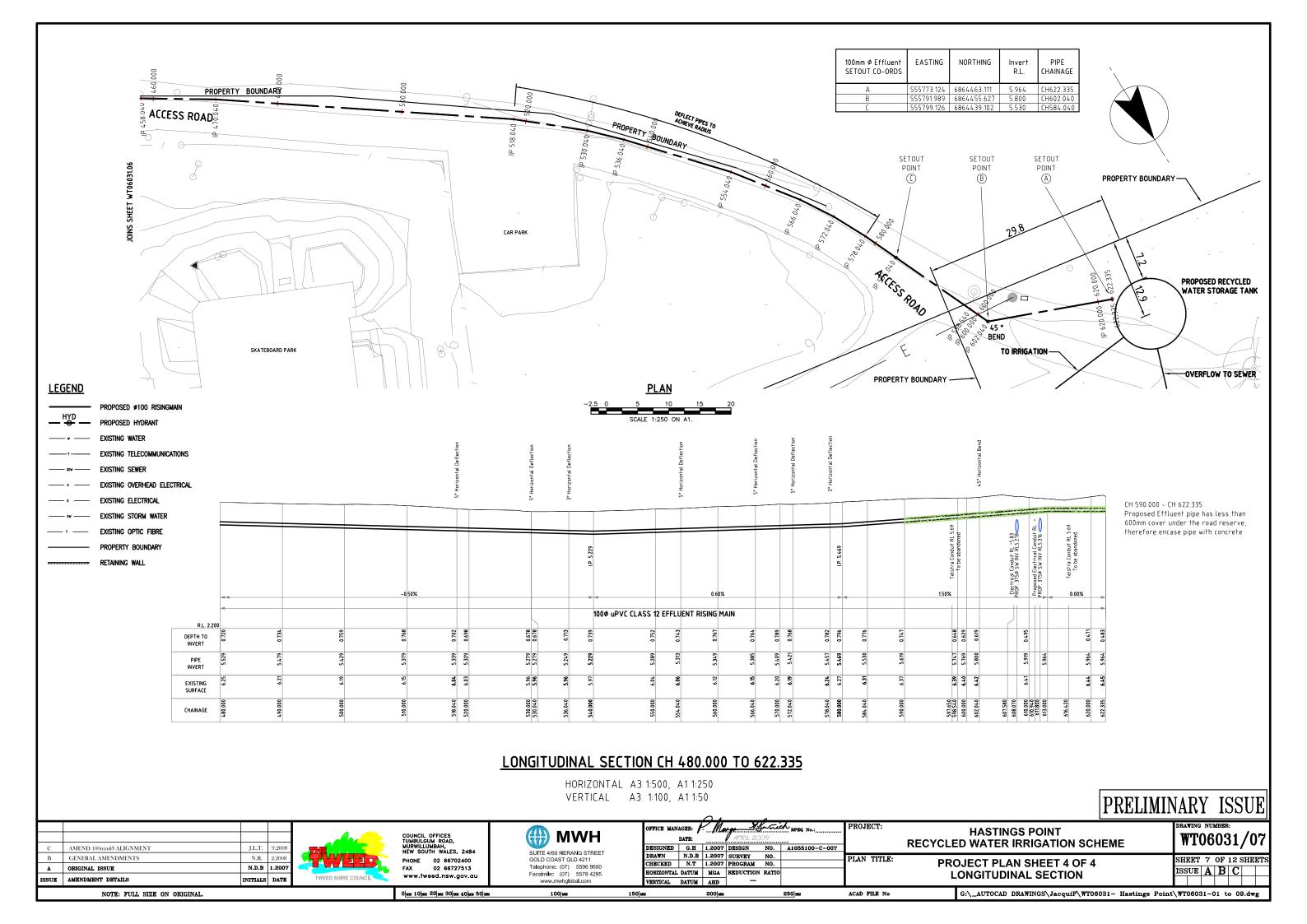
LONGITUDINAL SECTION CH 160.000 TO 320.000

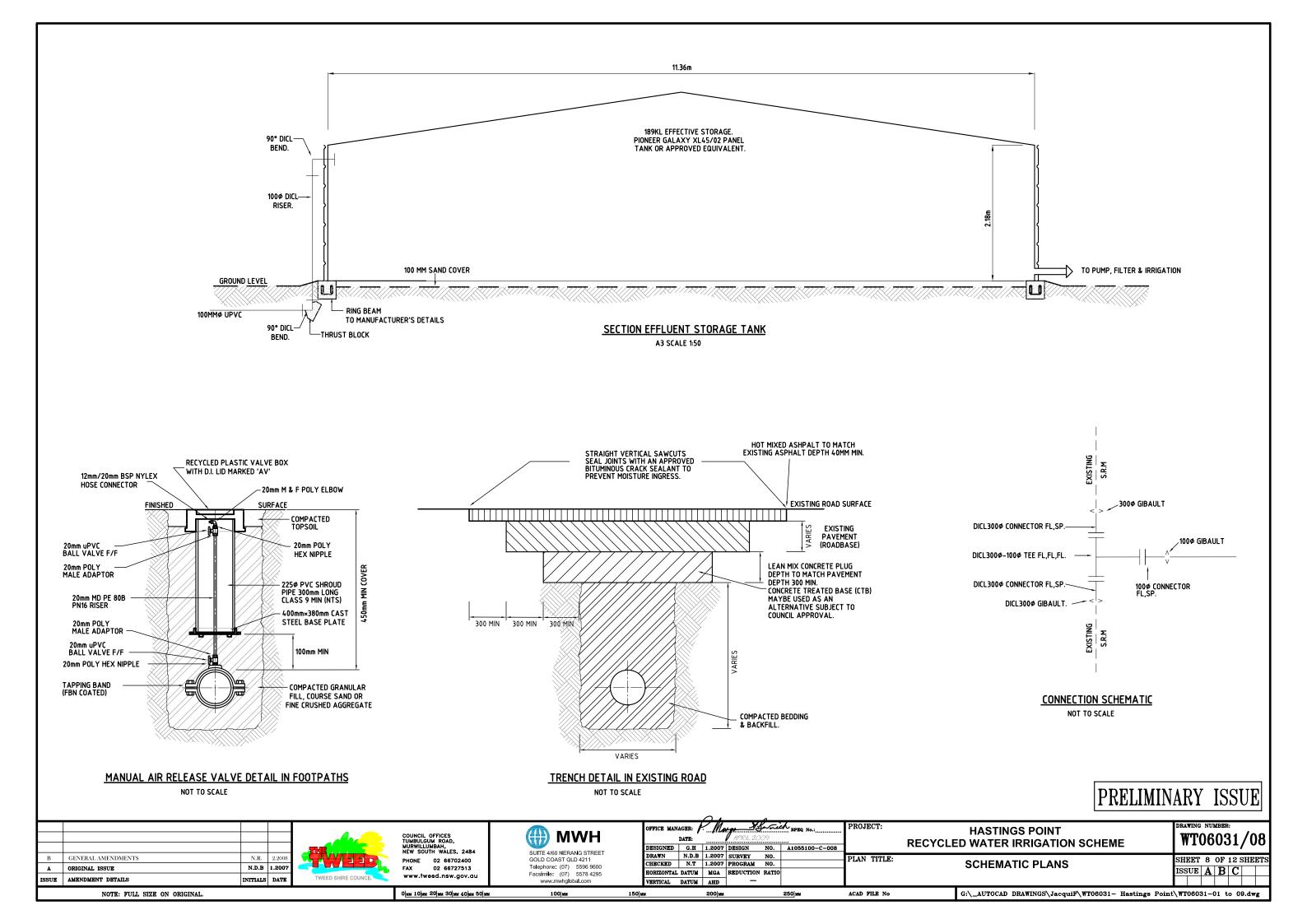
HORIZONTAL A3 1:500, A1 1:250 VERTICAL A3 1:100, A1 1:50

PRELIMINARY ISSUE

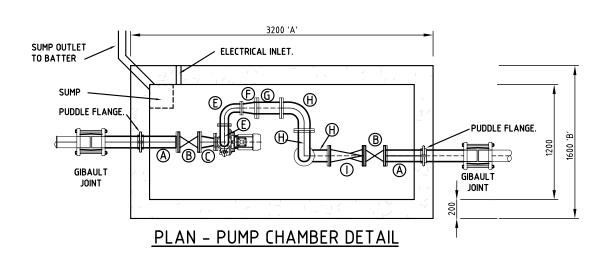
	NOTE: FULL SIZE ON ORIGINAL.			0 mr 10 mr 20 mr 30 mr 40 mr 50 mr	100 ans 150 a	М	200 1	ı	250 m	ACAD FILE No	G	:_AUTOCAD DRAWINGS\JacquiF\WT06031- Hastings F	oint\WT06031-01 to 09.dwg
ISSUE	AMENDMENT DETAILS	INITIALS DATE	TWEED SHIRE COUNCIL	www.tweed.nsw.gov.au	1 desirine: (67) 3370 4233	VERTICAL I		⊣			LC	ONGITUDINAL SECTION	
A	ORIGINAL ISSUE	N.D.B 1.2007		FAX 02 66727513	relephone: (07) 5596 9600			REDUCTION RAT	_	-			ISSUE A B C
В	GENERAL AMENDMENTS	N.R. 2.2008		PHONE 02 66702400	GOLD COAST QLD 4211		N.T 1.200	FROGRAM NO		PLAN TITLE:	PPO	JECT PLAN SHEET 2 OF 4	SHEET 5 OF 12 SHEETS
C	AMEND 100mmØ ALIGNMENT	J.L.T. 9.2008		MURWILLUMBAH, NEW SOUTH WALES, 2484	CUITE 4/CO NEDANO OTDEET	DESIGNED			A1055100-C-005		KLCTCLLI	WATER IRRIGATION SCHEME	
				COUNCIL OFFICES TUMBULGUM ROAD,	(III) MWH		GER: /~/!/ DATE:	APRIL 2009	RPEQ No.:	PROJECT:	DECVCI EI	HASTINGS POINT D WATER IRRIGATION SCHEME	WT06031/05

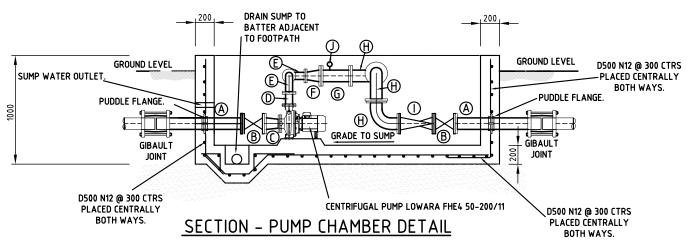




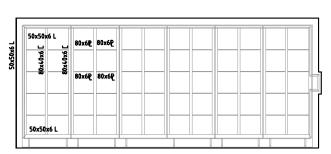


NOTE: DISCHARGE SUMP WATER TO AN APPROPRIATE PLACE AS DETERMINED ON SITE AND AS AGREED WITH THE SUPERINTENDENT.

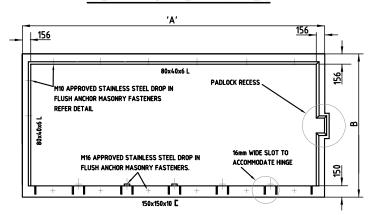




LIFTING SLOT REFER DETAIL PLAN - COVERS IN PLACE



PLAN - COVER FRAMES

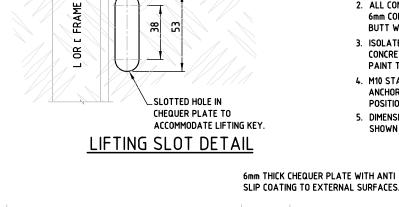


FITTINGS SCHEDULE

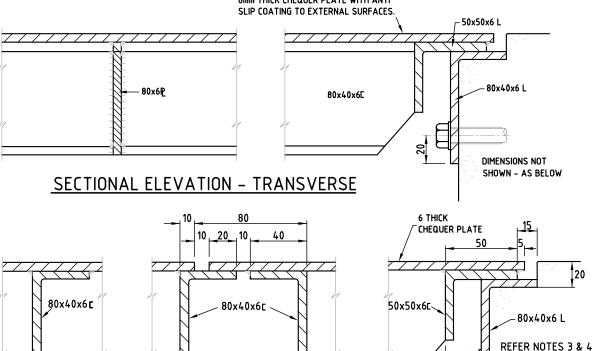
ITEM:	DESCRIPTION:	QTY:
Α	DICL DN100 FL SC CONNECTOR (P.FLANGE)	2
В	DICL DN100 FL-FL SLUICE VALVE	2
С	DICL DN100x50 ECCENTRIC FL-FL TAPER	1
D	DICL DN65 FL-FL PIPE CONNECTOR	1
E	DICL DN 65 90° FL-FL BEND	2
F	DICL DN65×100 ECCENTRIC TAPER	1
G	DICL DN100 FL-FL CONNECTOR	1
н	DICL DN100 90° FL-FL BEND	3
1/	DICL DN100 FL-FL NON RETURN VALVE	1
\ <u></u>	25 mm AIR VALVE × (× NOT DICL)	1

NOTES:

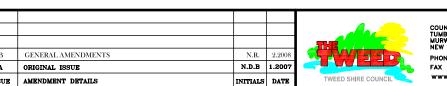
- 1. ALL COMPONENTS SHALL BE ALLUMINIUM ALLOY 6061-T1 UNLESS SHOWN OTHERWISE
- 2. ALL CONNECTIONS SHALL BE WELDED WITH 6mm CONTINUOUS FILLET OR FULL STRENGTH **BUTT WELDS UNLESS SHOWN OTHERWISE**
- 3. ISOLATE FASTENERS FROM FRAME AND CONCRETE STRUCTURE WITH A BITUMINOUS PAINT TO BOLT SHANK AND TO FRAME.
- 4. M10 STAINLESS STEEL DROP IN FLUSH ANCHOR MASONRY FASTENERS TO BE POSITIONED AS DETAILED
- 5. DIMENSIONS ARE IN MILLIMETERS UNLESS SHOWN OTHERWISE.



SECTIONAL ELEVATION - LONGITUDINAL



EXTERNAL FRAME



NOTE: FULL SIZE ON ORIGINAL.

COUNCIL OFFICES TUMBULGUM ROAD, MURWILLUMBAH, NEW SOUTH WALES, 2484 PHONE 02 66702400 02 66727513 www.tweed.nsw.gov.gu

MWH SUITE 4/60 NERANG STREET GOLD COAST QLD 4211 Telephone: (07) 5596 9600 Facsimile: (07) 5578 4295

OFFICE MAN	AGER:	Ma	rge XS	أحمدنا	RPEQ No.:	PI
	DATE:		NAPRIL 201			
DESIGNED	G.H	1.2007	DESIGN	NO.	A1055100-C-009	
DRAWN	N.D.B	1.2007	SURVEY	NO.		Ρī
CHECKED	N.T	1.2007	PROGRAM	NO.		l*
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HASTINGS POINT RECYCLED WATER IRRIGATION SCHEME

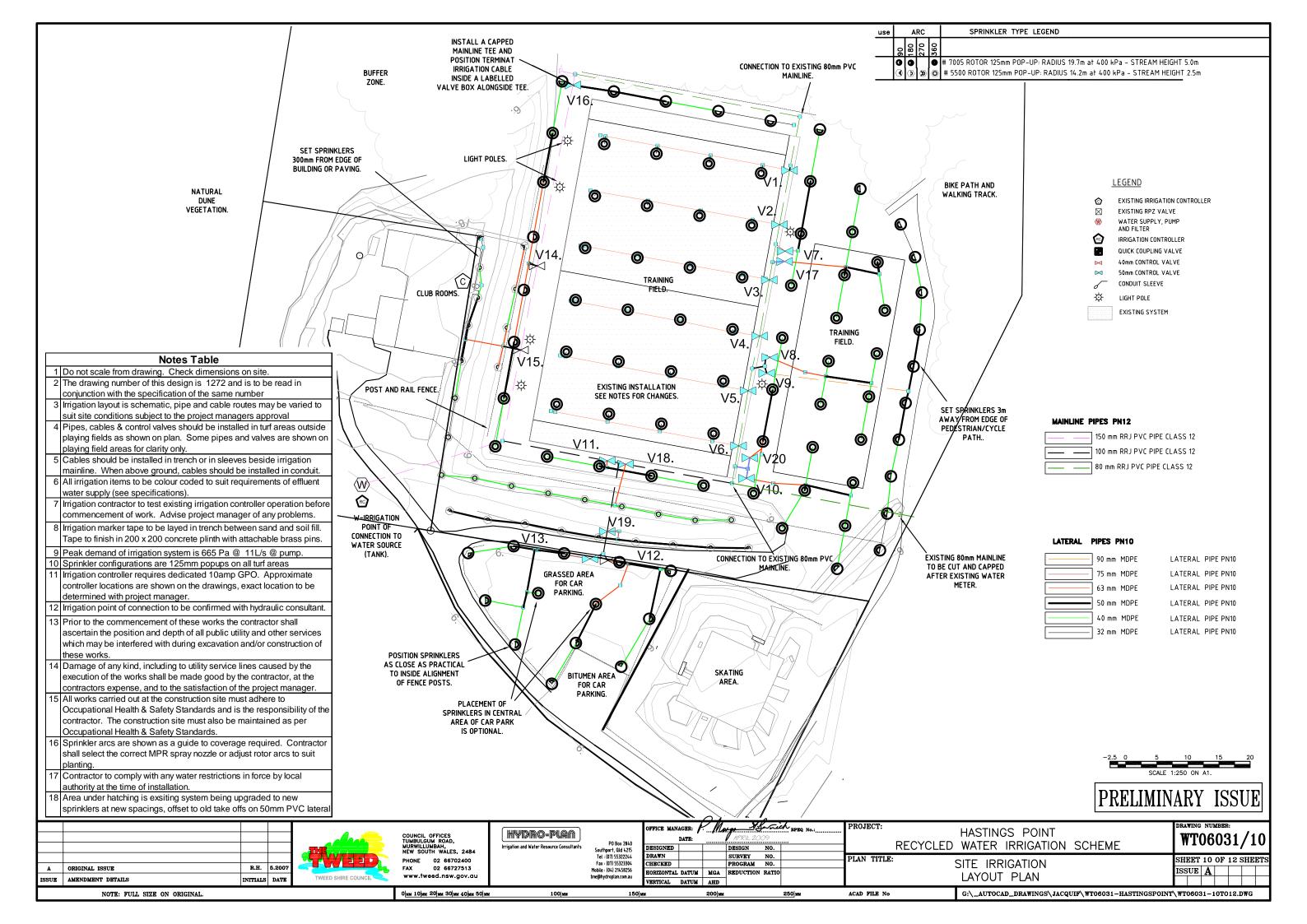
COVER DETAILS

WT06031/09 SHEET 9 OF 12 SHEET

ISSUE A B C

PRELIMINARY ISSUE

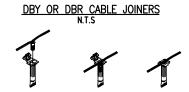
PLAN TITLE: **BOOSTER PUMP CHAMBER AND COVER DETAILED DRAWINGS** 0 and 10 and 20 and 30 and 40 and 50 and ACAD FILE No G:_AUTOCAD DRAWINGS\JacquiF\WT06031- Hastings Point\WT06031-01 to 09.dwg 100|мм 150 мм 200 mm



			CABL	E PATHS	
Cable Path Route	Active Cores	Active Size (mm) & Conductor	Common Core	Common Size (mm) & Conductor	Route
A	13	1.5mm & 7 x 0.50	1	4mm & 7 x 0.85	Controller @ Tank to last valve on existing field, V1 via V 11to V7
В	7	1.5mm & 7 x 0.50	1	2.5mm & 7 x 0.67	Controller @ Tank to V12 & V13 via V 11 & V17
С	7	1.5mm & 7 x 0.50	1	2.5mm & 7 x 0.67	Controller @ Tank to V16 via V 14 & V16
D	13	1.5mm & 7 x 0.50	1	6mm & 7 x 1.04	Controller @ Tank to Separate Valve box beside V16 for future extension

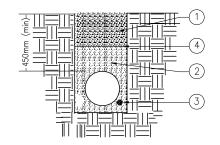
	Irrigation Shift Operation												
	Irr	igation Shi	tt Operat	ion									
Shift	Valves	Precipitati	Shift	Duty	Shift								
No.		on rate	Flow	Pressure	Time								
					for 5.3								
					mm								
		mm/hr	lps	m	minute								
					S								
Α	14,16	13.7	10.8		23.4								
В	1,2	13.7	9		23.4								
С	3,7	13.7	9		23.4								
D	9,17	12.2	9.4		25.8								
Е	4,5	13.7	9		23.4								
F	15,19	19.6	10.8		16.2								
G	8,10	12.9	8.3		24.6								
Н	6,20	13.7	9		23.4								
	11,13	14.4	9.8		22.3								
J	12,18	14.3	10.3		22.2								
Totals					228.1								

	1								
Valve Table									
Valve No	Valve size	Pressure	Sprinkler	Number of	Nozzle	Precipitation	Valve	Run Time	Shift No
			Туре	Sprinklers	No.	Rate	Flow	for 5.3	
								mm	
	mm	kPa				mm/hr	lps	hrs	
1	40	410	7005	4	18	13.7	4.47	0.39	В
2	40	410	7005	4	18	13.7	4.47	0.39	В
3	40	410	7005	4	18	13.7	4.47	0.39	С
4	40	410	7005	4	18	13.7	4.47	0.39	Е
5	40	410	7005	4	18	13.7	4.47	0.39	Е
6	40	410	7005	4	18	13.7	4.47	0.39	Н
7	40	410	7005	4	18	14.8	4.41	0.36	С
8	40	410	7005	5	12	12.9	3.78	0.41	G
9	40	410	7005	10	8	12.2	5.14	0.43	D
10	40	410	7005	6	12	12.9	4.54	0.41	G
11	40	410	7005	4	18	14.4	4.47	0.37	1
12	50	410	7005	7	18,16,12	13.7	6.98	0.39	J
13	40	410	7005	6	18,12,10	13.7	5.37	0.39	I
14	50	410	7005	8	18	13.7	8.23	0.39	Α
15	50	410	5000	7	8,6	19.6	5.56	0.27	F
16	40	410	7005	4	10	14.8	2.54	0.36	Α
17	40	410	7005	6	12	12.9	4.27	0.41	D
18	40	410	7005	9	6	14.3	3.34	0.37	J
19	40	410	7005	9	6	19.6	5.23	0.27	F
20	40	410	7005	4	18	14.8	4.41	0.36	Н

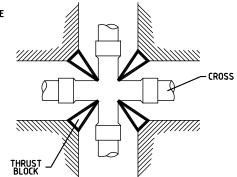


TYPICAL CONNECTION PROCESS WHEN CORRECTLY INSTALLED THE JOIN CAN NOT BE PULLED OUT OF THE GEL FILLED CAPSULE.

MAINLINE TRENCH DETAIL N.T.S



- APPROVED BACK FILL
 100mm SAND BEDDING ABOVE
 PIPE AND 50mm BELOW PIPE 3. CONTROL OR DECODER
- 4. IRRIGATION MARKER TAPE



QUICK COUPLING DETAIL
N.T.S

1. QUICK COUPLING VALVE
2. APPROVED VALVE BOX WITH LID
3. PVC SCHEDULE 80 NIPPLES

AND BALL VALVES

5. PVC SCHEDULE 80 "O" RING

25mm SWING JOINT RISER

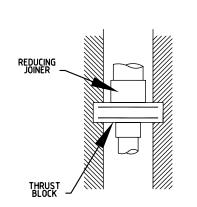
1" BSPF SCREWED OUTLET

6. COMPRESSION TEE, LINE SIZE WITH

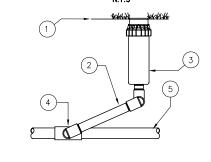
8. 50mm x 50mm HARDWOOD STAKE STAINLESS GEAR CLAMP

4. BRICK SUPPORTS (4)

7. MAINLINE

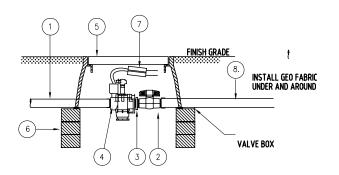


125mm POP UP ROTOR SPRINKLER



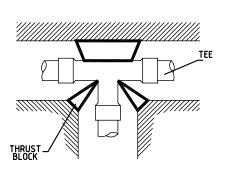
- 1. FINISH GRADE
- 2. SCHEDULE 80 PVC ARTICULATED RISER, 300mm SIZED TO
 MATCH SPRINKLER INLET
 3. POP UP SPRINKLER
 4. TAPPING SADDLE
 LINE SIZE WITH
- BSP SCREWED OUTLET
- STAINLESS BOLTS ETC. 5. LATERAL PIPE

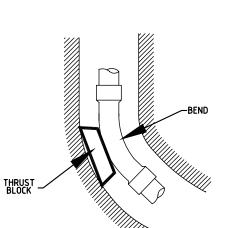
CONTROL VALVE TYPICAL INSTALLATION DETAIL

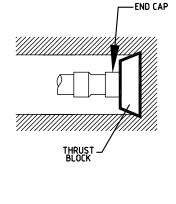


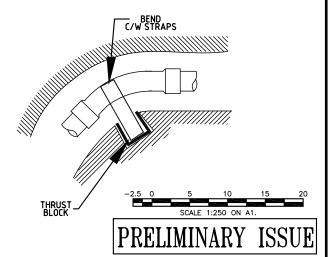
- 1. M.D.P.E. LATERAL PIPE.
- 2. 1400 KPa PLASTIC BALL VALVE.
 3. H.D. POLY NIPPLE.
- 4. 24VAC 25mm SOLENOID VALVE
- PRESSURE REGULATING (as specified)
- 5. RECTANGULAR VALVE BOX WITH BOLT DOWN LID (HR1419 OR EQUIVALENT).
- 6. BRICKS TO SUPPORT BOX.
- 7. 3M-DBY CABLE SPLICE JOINT.
- 8. M.D.P.E MAINLINE PIPE

TYPICAL THRUST BLOCK INSTALLATION DETAIL N.T.S









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R.H.	5.2007	

INITIALS DATE

ORIGINAL ISSUE

NOTE: FULL SIZE ON ORIGINAL.

ISSUE AMENDMENT DETAILS

TWEED SHIRE COUNCIL

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PROJECT: HASTINGS POINT RECYLCED WATER IRRIGATION LAYOUT PLAN TITLE:

DETAILS SHEET 1

WT06031/11 SHEET 11 OF 12 SHEET ISSUE A

VERTICAL DATUM AHD 0 and 10 and 20 and 30 and 40 and 50 and ACAD FILE No 100|мм 150 мм 200 mm 250 mg

