

NOTES:

1. ALL WATERMAINS SETOUT DATA SHOWN ON 600 SERIES DRAWINGS IS TO BE PROVIDED ELECTRONICALLY.
2. BEDDING AND SURROUND FOR ALL PIPES TO BE IN ACCORDANCE WITH WATERCARE CODE OF PRACTICE FOR LAND DEVELOPMENT AND SUBDIVISION.
3. CONNECTIONS TO EXISTING COUNCIL WATERMAINS ARE TO BE MADE ONLY AFTER TESTING, STERILISATION AND ACCEPTANCE BY WATERCARE AND AUCKLAND COUNCIL.
4. ALL WORKS AND MATERIALS TO COMPLY WITH WATERCARE CODE OF PRACTICE:
 I) 50mmØ (63 OD). MDPE 80B AS/NZS 4130/2003 PN12.5 SDR11 COLOURED BLUE.
 II) 100-200mmØ PVC-u AS/NZS 1477:2006 SERIES 1 PN12 COLOURED BLUE.
 III) DUCTILE IRON CLASS K9 OR PN35 AS/NZS2280:2004 CONCRETE LINED.
 IV) PE PIPES WHERE SHOWN SHALL BE PN12.5 PE100
5. ALL TRENCHES UNDER CARRIAGEWAYS TO BE BACKFILLED WITH HARDFILL.
6. THESE DRAWINGS DO NOT NECESSARILY SHOW ALL EXISTING SERVICES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ACCURATELY LOCATE AND PROTECT ALL EXISTING SERVICES DURING THE CONSTRUCTION PERIOD.
7. THE CONTRACTOR IS TO ACCURATELY FIX BY SURVEY ALL CHANGES IN DEPTH AND DIRECTION OF THE PROPOSED WATERMAIN.

8. ALL TEES, BENDS AND FITTINGS SHALL BE FLANGED DUCTILE IRON MIN PN16 AND PROVIDED WITH ANCHOR BLOCKS (SEE WSL DWG 15-17).
9. ALL ROAD CROSSINGS SHALL BE PN12.5 PE100 PIPES WITH BUTT WELDED JOINTS (SEE WSL DWG WS 6)
10. ALL PEAT VALVES AND SLUICE VALVES TO BE RESILIENT SEATED.

LEGEND:

PROPOSED WATERMAIN (RESERVOIR SUPPLY)	
PROPOSED WATER SUPPLY (GOLF COURSE IRRIGATION)	
PROPOSED WATER SUPPLY (POTABLE WATER BORE)	
PROPOSED WATER SUPPLY (HOUSE CONNECTION)	
PROPOSED WATER COLLECTION (DOWNPIPES TO RAIN TANKS)	
PROPOSED WATER SUPPLY (PREASURISED WATER SUPPLY)	
PROPOSED FIRE HYDRANT	
PROPOSED SLUICE VALVE	
PROPOSED BLANK CAP	

CLIENT: THE BEARS HOME PROJECT MANAGEMENT LTD PROJECT: MURIWAI DOWNS GOLF PROJECT TITLE: PROPOSED WATER SUPPLY OVERALL PLAN PURPOSE OF ISSUE: FOR CONSENT

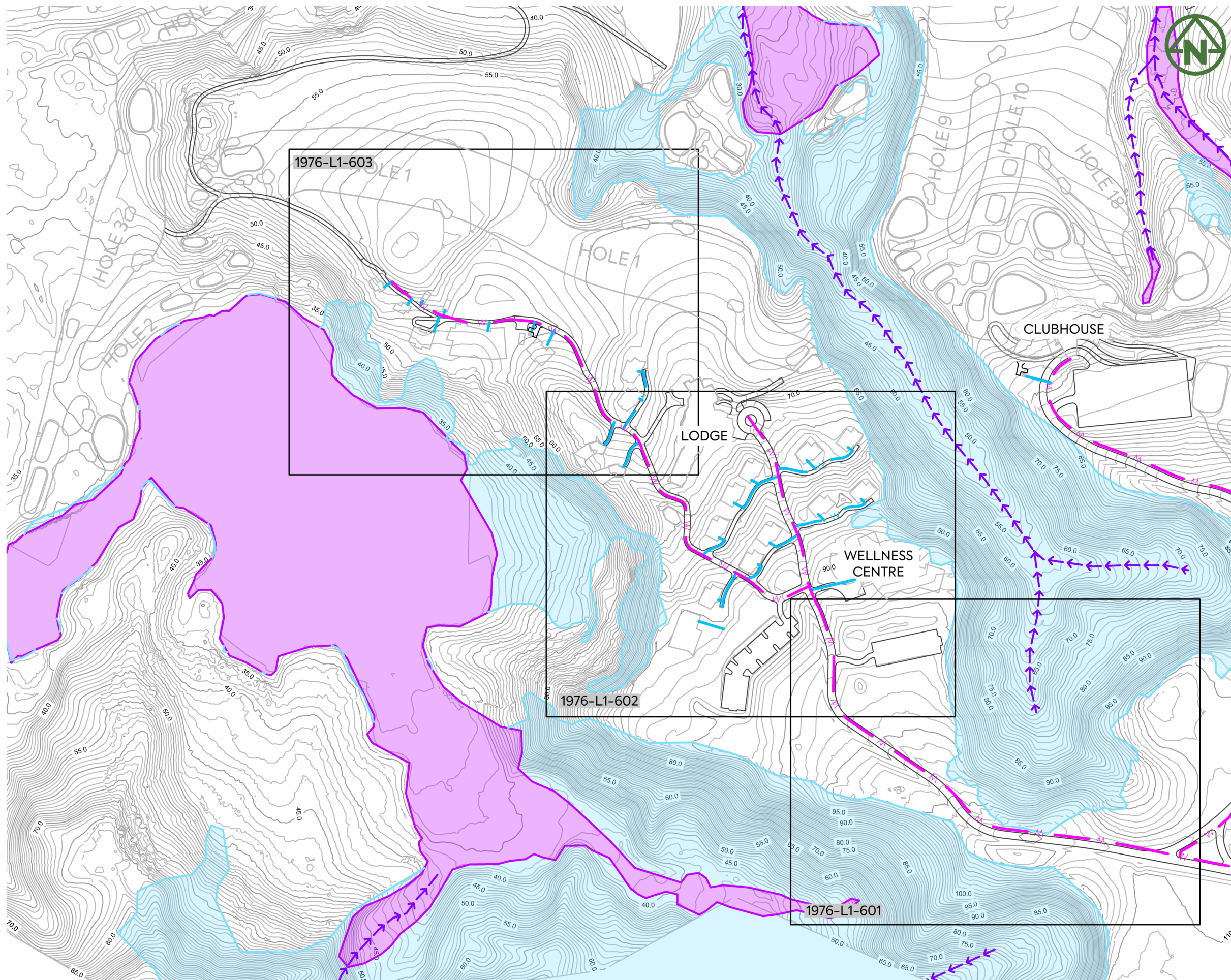
610 & 697 MURIWAI ROAD MURIWAI VALLEY

SCALE: 1:7500 @ A3 DO NOT SCALE

DRAWING NO: 1976-1-600 REV: C

REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE
C	ISSUED FOR CONSENT	MO	CIM	JSD	26/11/21
B	SECOND ISSUE	MO	CIM	JSD	05/11/21
A	FIRST ISSUE	MO	CIM	JSD	24/08/21





NOTES:

1. ALL WATERMAINS SETOUT DATA SHOWN ON 600 SERIES DRAWINGS IS TO BE PROVIDED ELECTRONICALLY.
2. BEDDING AND SURROUND FOR ALL PIPES TO BE IN ACCORDANCE WITH WATERCARE CODE OF PRACTICE FOR LAND DEVELOPMENT AND SUBDIVISION.
3. CONNECTIONS TO EXISTING COUNCIL WATERMAINS ARE TO BE MADE ONLY AFTER TESTING, STERILISATION AND ACCEPTANCE BY WATERCARE AND AUCKLAND COUNCIL.
4. ALL WORKS AND MATERIALS TO COMPLY WITH WATERCARE CODE OF PRACTICE:
 - I) 50mmØ (63 OD), MDPE 80B AS/NZS 4130/2003 PN12.5 SDR11 COLOURED BLUE.
 - II) 100-200mmØ PVC-u AS/NZS 1477:2006 SERIES 1 PN12 COLOURED BLUE.
 - III) DUCTILE IRON CLASS K9 OR PN35 AS/NZS2280:2004 CONCRETE LINED.
 - IV) PE PIPES WHERE SHOWN SHALL BE PN12.5 PE100
5. ALL TRENCHES UNDER CARRIAGEWAYS TO BE BACKFILLED WITH HARDFILL.
6. THESE DRAWINGS DO NOT NECESSARILY SHOW ALL EXISTING SERVICES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ACCURATELY LOCATE AND PROTECT ALL EXISTING SERVICES DURING THE CONSTRUCTION PERIOD.
7. THE CONTRACTOR IS TO ACCURATELY FIX BY SURVEY ALL CHANGES IN DEPTH AND DIRECTION OF THE PROPOSED WATERMAIN.
8. ALL TEES, BENDS AND FITTINGS SHALL BE FLANGED DUCTILE IRON MIN PN16 AND PROVIDED WITH ANCHOR BLOCKS (SEE WSL DWG 15-17).
9. ALL ROAD CROSSINGS SHALL BE PN12.5 PE100 PIPES WITH BUTT WELDED JOINTS (SEE WSL DWG WS 6)
10. ALL PEAT VALVES AND SLUICE VALVES TO BE RESILIENT SEATED.

LEGEND:

- PROPOSED WATERMAIN (RESERVOIR SUPPLY) — W —
- PROPOSED WATER SUPPLY (GOLF COURSE IRRIGATION) — W —
- PROPOSED WATER SUPPLY (POTABLE WATER BORE) — W —
- PROPOSED WATER SUPPLY (HOUSE CONNECTION) — W —
- PROPOSED WATER COLLECTION (DOWNPipes TO RAIN TANKS) →→→→→
- PROPOSED WATER SUPPLY (PREASURISED WATER SUPPLY) ←←←←←
- PROPOSED FIRE HYDRANT [H]
- PROPOSED SLUICE VALVE [X]
- PROPOSED BLANK CAP [O]

CLIENT: THE BEARS HOME PROJECT MANAGEMENT LTD PROJECT: MURIWAI DOWNS GOLF PROJECT TITLE: PROPOSED WATER SUPPLY PURPOSE OF ISSUE: FOR CONSENT

REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE
C	ISSUED FOR CONSENT	MO	CIM	JSD	26/11/21
B	SECOND ISSUE	MO	CIM	JSD	05/11/21
A	FIRST ISSUE	MO	CIM	JSD	24/08/21

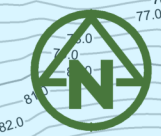
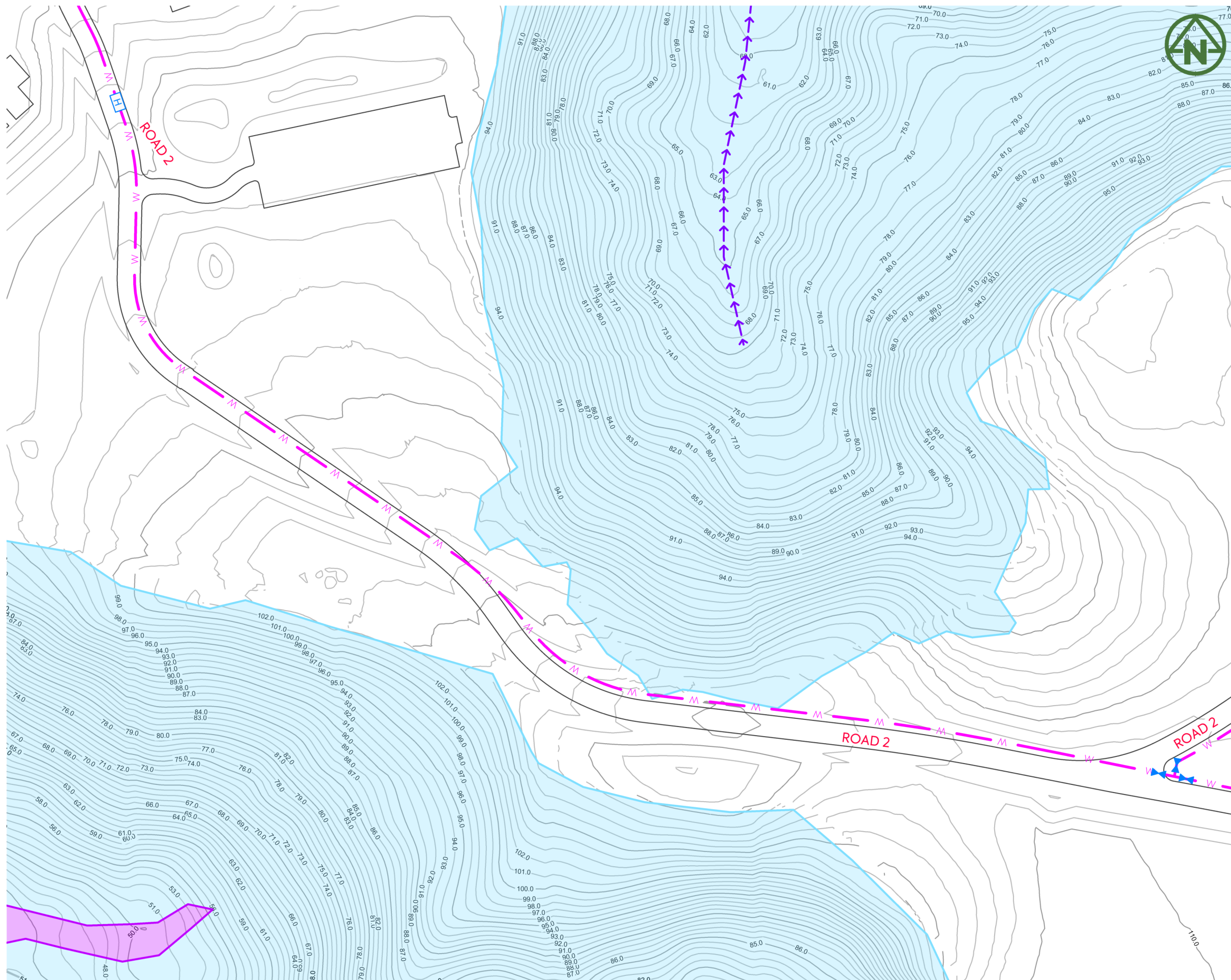


THE BEARS HOME PROJECT MANAGEMENT LTD MURIWAI DOWNS GOLF PROJECT 610 & 697 MURIWAI ROAD MURIWAI VALLEY

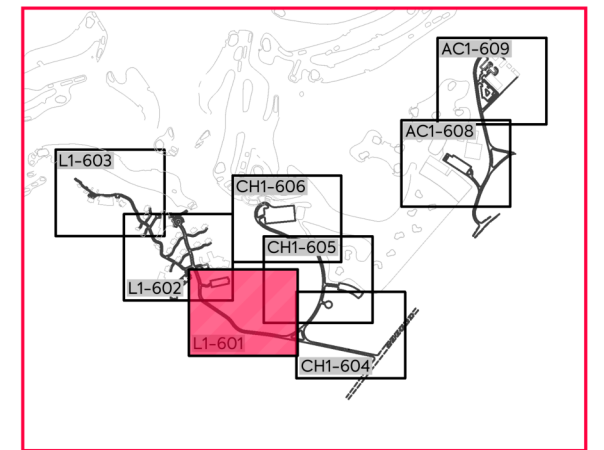
PROPOSED WATER SUPPLY GOLF LODGE OVERALL PLAN SHEET 1

SCALE: 1:3000 @ A3 DO NOT SCALE

DRAWING NO: 1976-L1-600A REV: C



- NOTES:**
- REFER TO DRAWING 1976-1-600 FOR STANDARD WATERSUPPLY NOTES.
- LEGEND:**
- PROPOSED WATERMAIN (RESERVOIR SUPPLY) — W —
 - PROPOSED WATER SUPPLY (GOLF COURSE IRRIGATION) — W —
 - PROPOSED WATER SUPPLY (POTABLE WATER BORE) — W —
 - PROPOSED WATER SUPPLY (HOUSE CONNECTION) — W —
 - PROPOSED WATER COLLECTION (DOWNPIPES TO RAIN TANKS) → → → → →
 - PROPOSED WATER SUPPLY (PRE-ASSURED WATER SUPPLY) ← ← ← ← ←
 - PROPOSED FIRE HYDRANT H
 - PROPOSED SLUICE VALVE V
 - PROPOSED BLANK CAP C

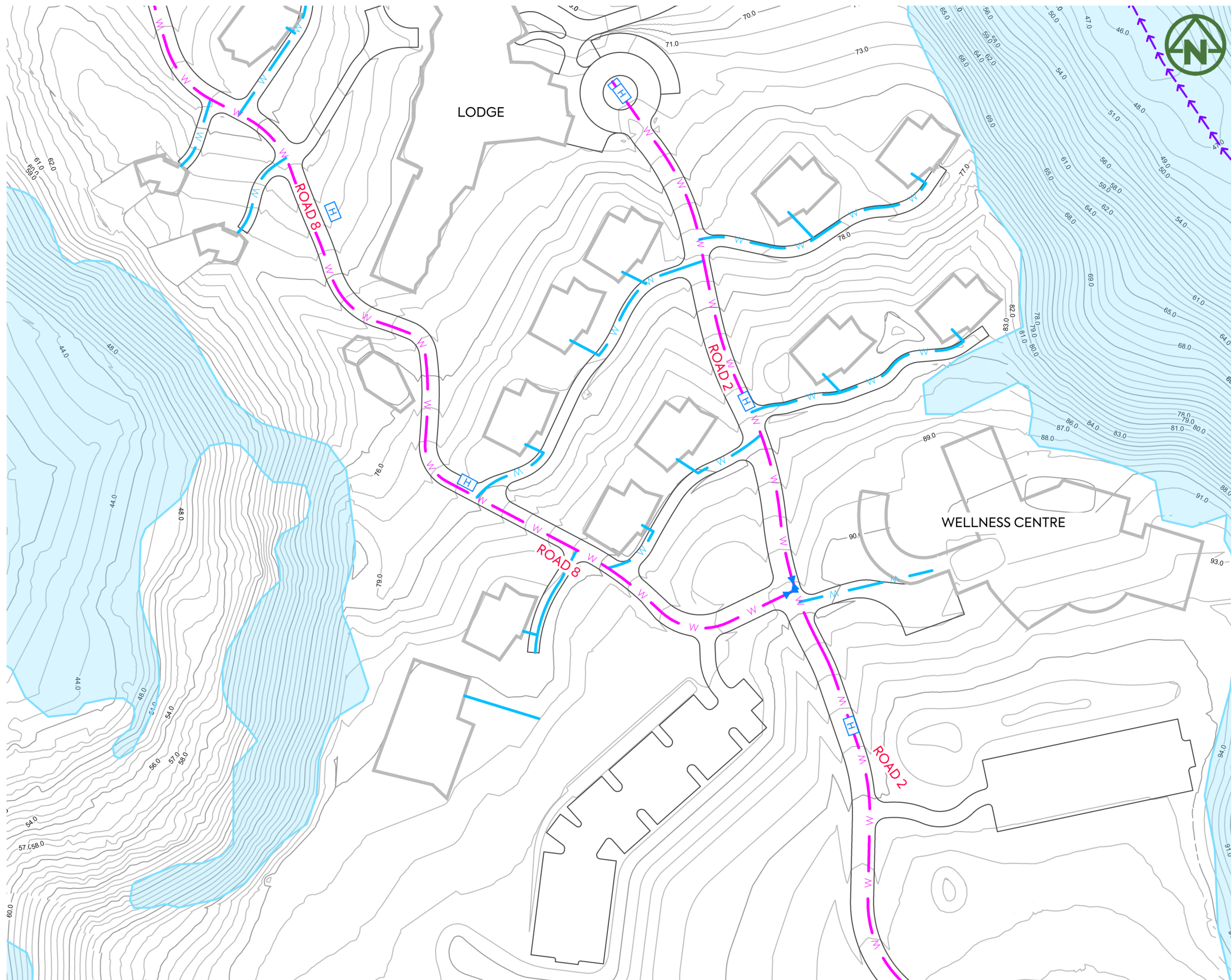


DRAWING LAYOUT PLAN

<p>CLIENT: THE BEARS HOME PROJECT MANAGEMENT LTD</p>	<p>PROJECT: MURIWAI DOWNS GOLF PROJECT 610 & 697 MURIWAI ROAD MURIWAI VALLEY</p>	<p>TITLE: PROPOSED WATER SUPPLY GOLF CLUBHOUSE LAYOUT PLAN SHEET 2</p>	<p>PURPOSE OF ISSUE: FOR CONSENT</p>
<p>SCALE: 1:1000 @ A3</p> <p>DO NOT SCALE</p>			<p>DRAWING NO.: 1976-CH1-601</p>
<p>REV DESCRIPTION DRN BY CHK BY APP BY DATE</p>			<p>REV: C</p>



C	ISSUED FOR CONSENT	MO	CIM	JSD	26/11/21
B	SECOND ISSUE	MO	CIM	JSD	05/11/21
A	FIRST ISSUE	MO	CIM	JSD	24/08/21

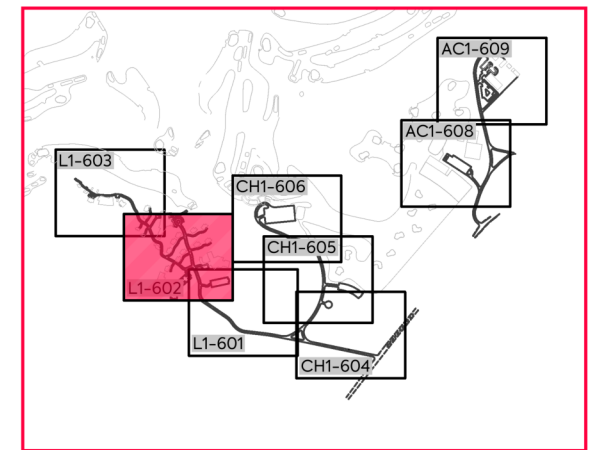


NOTES:

- REFER TO DRAWING 1976-1-600 FOR STANDARD WATERSUPPLY NOTES.

LEGEND:

- PROPOSED WATERMAIN (RESERVOIR SUPPLY) — W —
- PROPOSED WATER SUPPLY (GOLF COURSE IRRIGATION) — W —
- PROPOSED WATER SUPPLY (POTABLE WATER BORE) — W —
- PROPOSED WATER SUPPLY (HOUSE CONNECTION) — W —
- PROPOSED WATER COLLECTION (DOWNPIPES TO RAIN TANKS) → → → → →
- PROPOSED WATER SUPPLY (PREASURISED WATER SUPPLY) ← ← ← ← ←
- PROPOSED FIRE HYDRANT H
- PROPOSED SLUCE VALVE V
- PROPOSED BLANK CAP



DRAWING LAYOUT PLAN

CLIENT: THE BEARS HOME PROJECT MANAGEMENT LTD PROJECT: MURIWAI DOWNS GOLF PROJECT TITLE: PROPOSED WATER SUPPLY PURPOSE OF ISSUE: FOR CONSENT

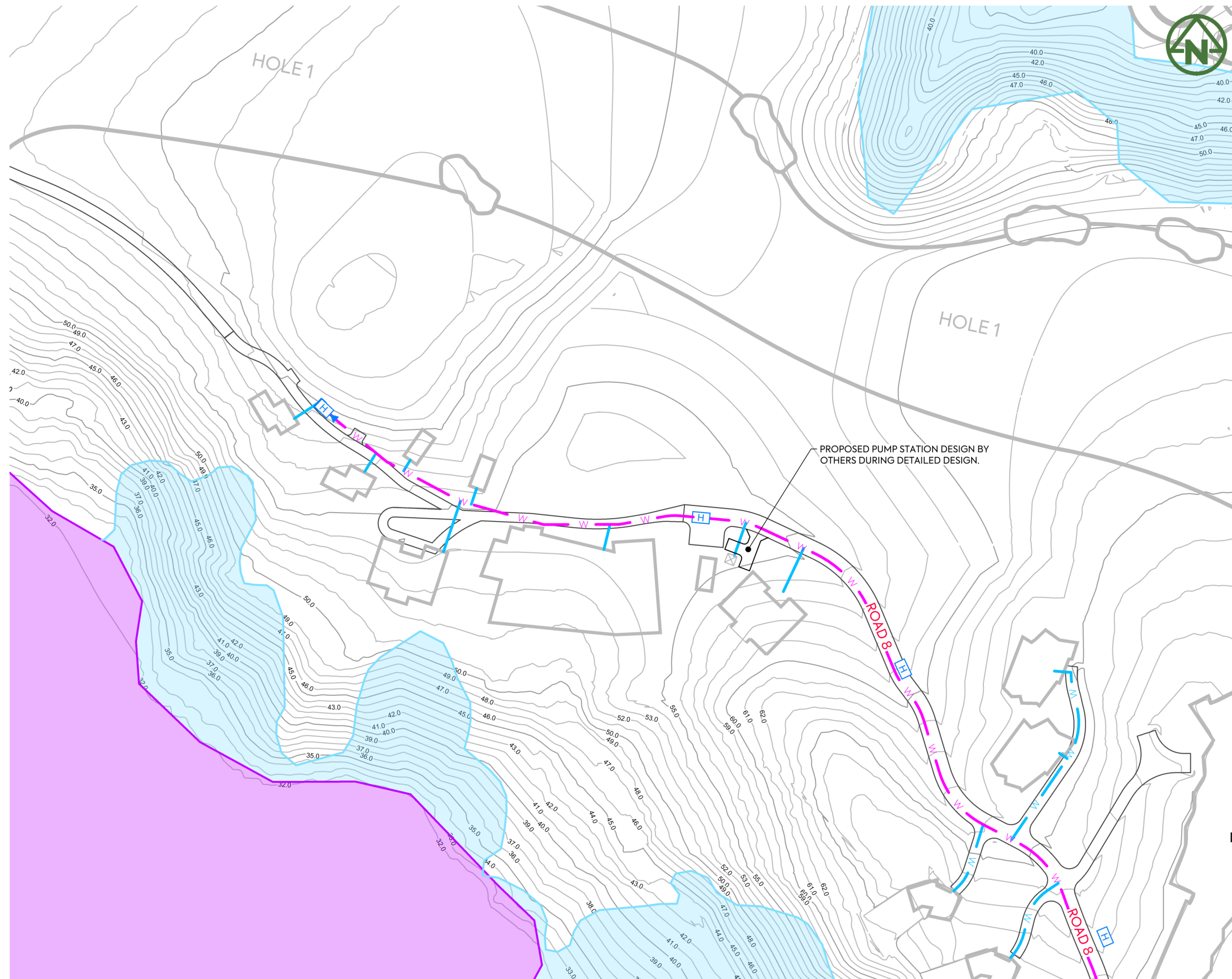
REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE
C	ISSUED FOR CONSENT	MO	CIM	JSD	26/11/21
B	SECOND ISSUE	MO	CIM	JSD	05/11/21
A	FIRST ISSUE	MO	CIM	JSD	24/08/21



THE BEARS HOME PROJECT MANAGEMENT LTD
 MURIWAI DOWNS GOLF PROJECT
 610 & 697 MURIWAI ROAD
 MURIWAI VALLEY

PROPOSED WATER SUPPLY
 GOLF LODGE
 LAYOUT PLAN
 SHEET 3

SCALE: 1:1000 @ A3
 DO NOT SCALE
 DRAWING NO: 1976-L1-602 REV: C

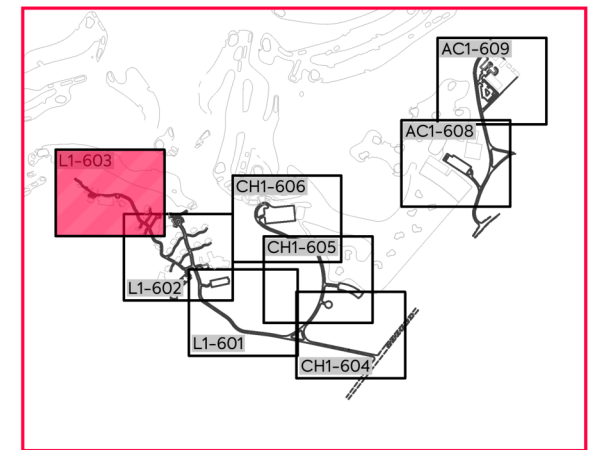


NOTES:

1. REFER TO DRAWING 1976-1-600 FOR STANDARD WATERSUPPLY NOTES.

LEGEND:

- PROPOSED WATERMAIN (RESERVOIR SUPPLY) — W —
- PROPOSED WATER SUPPLY (GOLF COURSE IRRIGATION) — W —
- PROPOSED WATER SUPPLY (POTABLE WATER BORE) — W —
- PROPOSED WATER SUPPLY (HOUSE CONNECTION) — W —
- PROPOSED WATER COLLECTION (DOWNPIPES TO RAIN TANKS) → → → → →
- PROPOSED WATER SUPPLY (PRE-ASSURED WATER SUPPLY) ← ← ← ← ←
- PROPOSED FIRE HYDRANT H
- PROPOSED SLUICE VALVE V
- PROPOSED BLANK CAP X

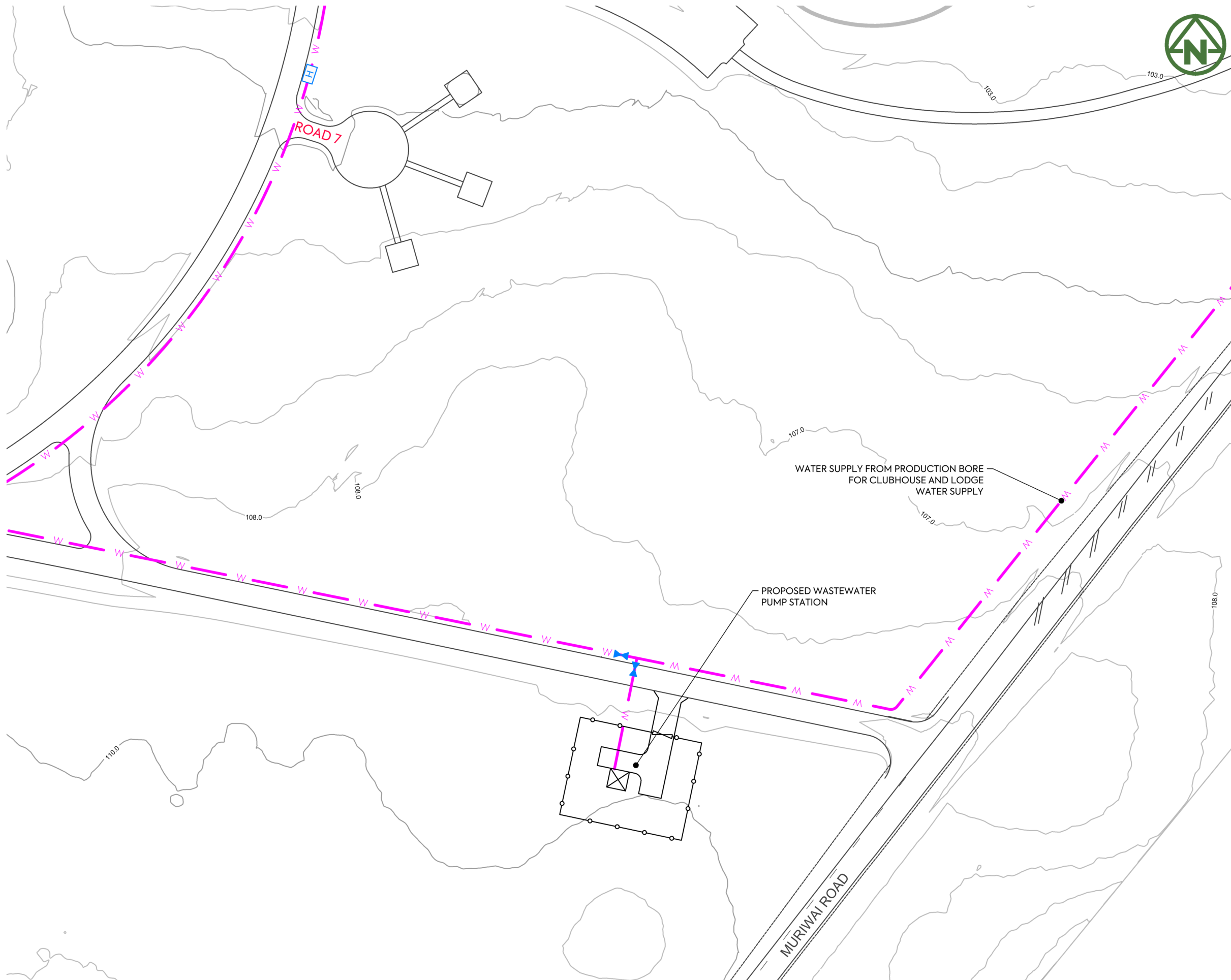


DRAWING LAYOUT PLAN

<p>CLIENT: THE BEARS HOME PROJECT MANAGEMENT LTD</p>	<p>PROJECT: MURIWAI DOWNS GOLF PROJECT 610 & 697 MURIWAI ROAD MURIWAI VALLEY</p>	<p>TITLE: PROPOSED WATER SUPPLY GOLF LODGE LAYOUT PLAN SHEET 4</p>	<p>PURPOSE OF ISSUE: FOR CONSENT</p>
<p>SCALE: 1:1000 @ A3</p> <p>DO NOT SCALE</p>			<p>DRAWING NO: 1976-L1-603</p>
<p>REV DESCRIPTION DRN BY CHK BY APP BY DATE</p>			<p>REV: C</p>

C	ISSUED FOR CONSENT	MO	CIM	JSD	26/11/21
B	SECOND ISSUE	MO	CIM	JSD	05/11/21
A	FIRST ISSUE	MO	CIM	JSD	24/08/21





NOTES:

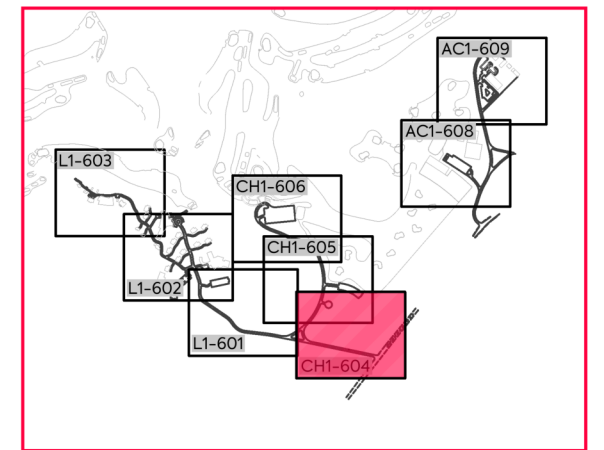
- REFER TO DRAWING 1976-1-600 FOR STANDARD WATERSUPPLY NOTES.

LEGEND:

- PROPOSED WATERMAIN (RESERVOIR SUPPLY) — W —
- PROPOSED WATER SUPPLY (GOLF COURSE IRRIGATION) — W —
- PROPOSED WATER SUPPLY (POTABLE WATER BORE) — W —
- PROPOSED WATER SUPPLY (HOUSE CONNECTION) — W —
- PROPOSED WATER COLLECTION (DOWNPipes TO RAIN TANKS) →→→→→
- PROPOSED WATER SUPPLY (PREASURISED WATER SUPPLY) ←←←←←
- PROPOSED FIRE HYDRANT H
- PROPOSED SLUICE VALVE ⋈
- PROPOSED BLANK CAP ⊗

WATER SUPPLY FROM PRODUCTION BORE FOR CLUBHOUSE AND LODGE WATER SUPPLY

PROPOSED WASTEWATER PUMP STATION

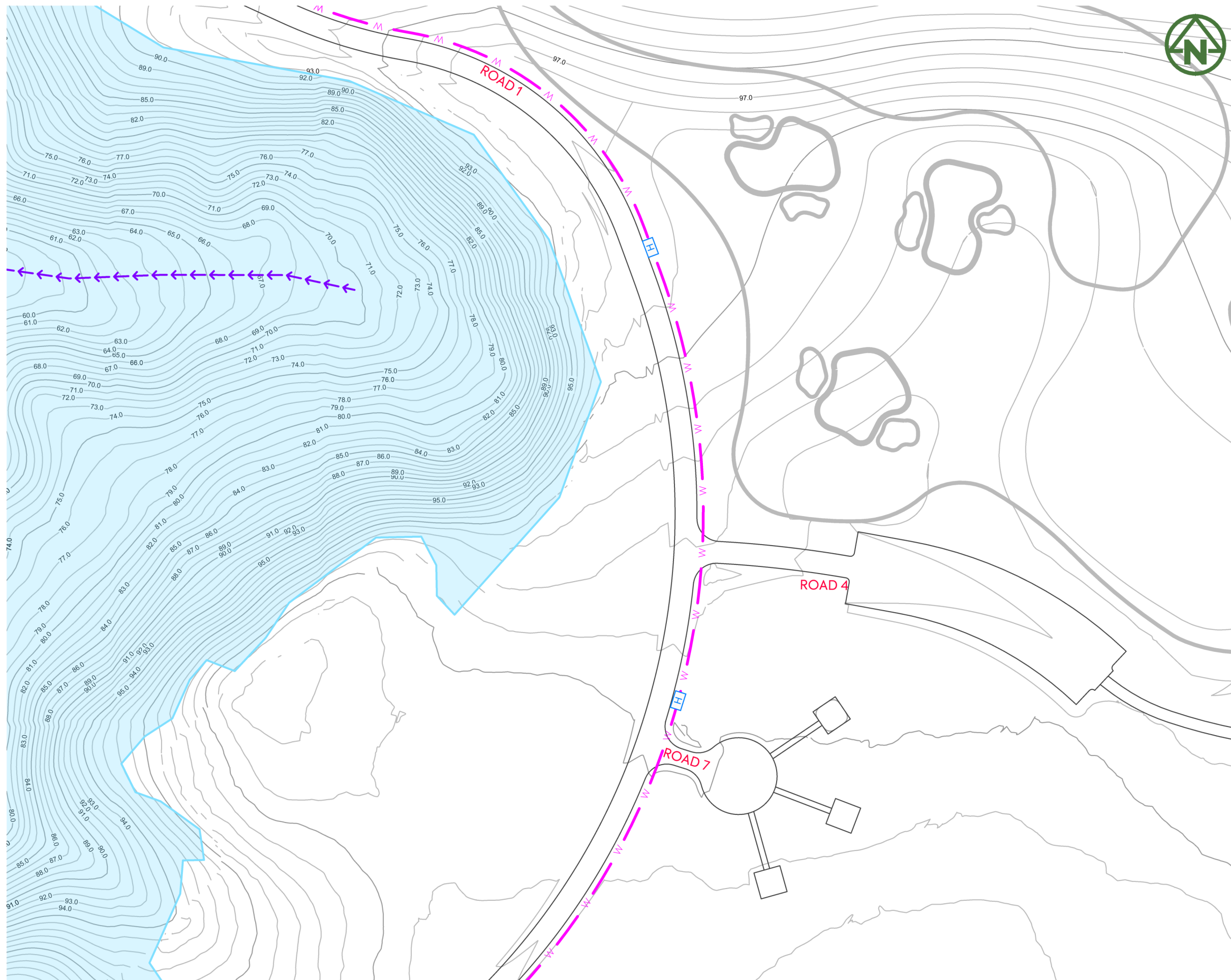


DRAWING LAYOUT PLAN

<p>CLIENT: THE BEARS HOME PROJECT LIMITED</p>	<p>PROJECT: MURIWAI DOWNS GOLF COURSE 610 & 697 MURIWAI ROAD MURIWAI VALLEY</p>	<p>TITLE: PROPOSED WATER SUPPLY GOLF CLUBHOUSE LAYOUT PLAN SHEET 5</p>	<p>PURPOSE OF ISSUE: FOR CONSENT</p> <hr/> <p>SCALE: 1:1000 @ A3</p> <p>DO NOT SCALE</p> <hr/> <p>DRAWING NO.: 1976-CH1-604 REV: A</p>
--	--	---	---



<p>A FIRST ISSUE MO CIM JSD XX/08/21</p>	<p>REV DESCRIPTION DRN BY CHK BY APP BY DATE</p>
---	---

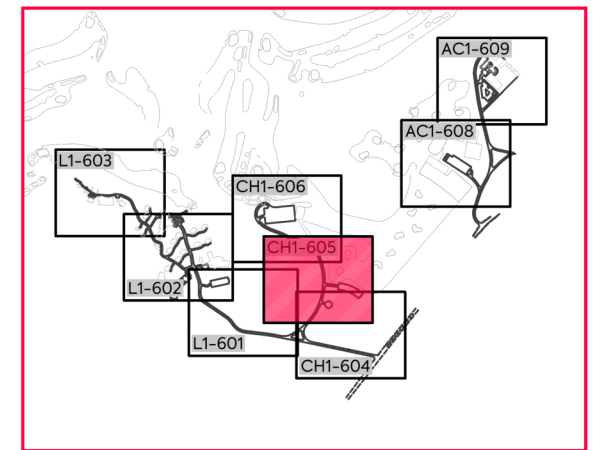


NOTES:

- REFER TO DRAWING 1976-1-600 FOR STANDARD WATERSUPPLY NOTES.

LEGEND:

- PROPOSED WATERMAIN (RESERVOIR SUPPLY) — W —
- PROPOSED WATER SUPPLY (GOLF COURSE IRRIGATION) — W —
- PROPOSED WATER SUPPLY (POTABLE WATER BORE) — W —
- PROPOSED WATER SUPPLY (HOUSE CONNECTION) — W —
- PROPOSED WATER COLLECTION (DOWNPIPES TO RAIN TANKS) → → → → →
- PROPOSED WATER SUPPLY (PREASURISED WATER SUPPLY) ← ← ← ← ←
- PROPOSED FIRE HYDRANT H
- PROPOSED SLUICE VALVE ⋈
- PROPOSED BLANK CAP

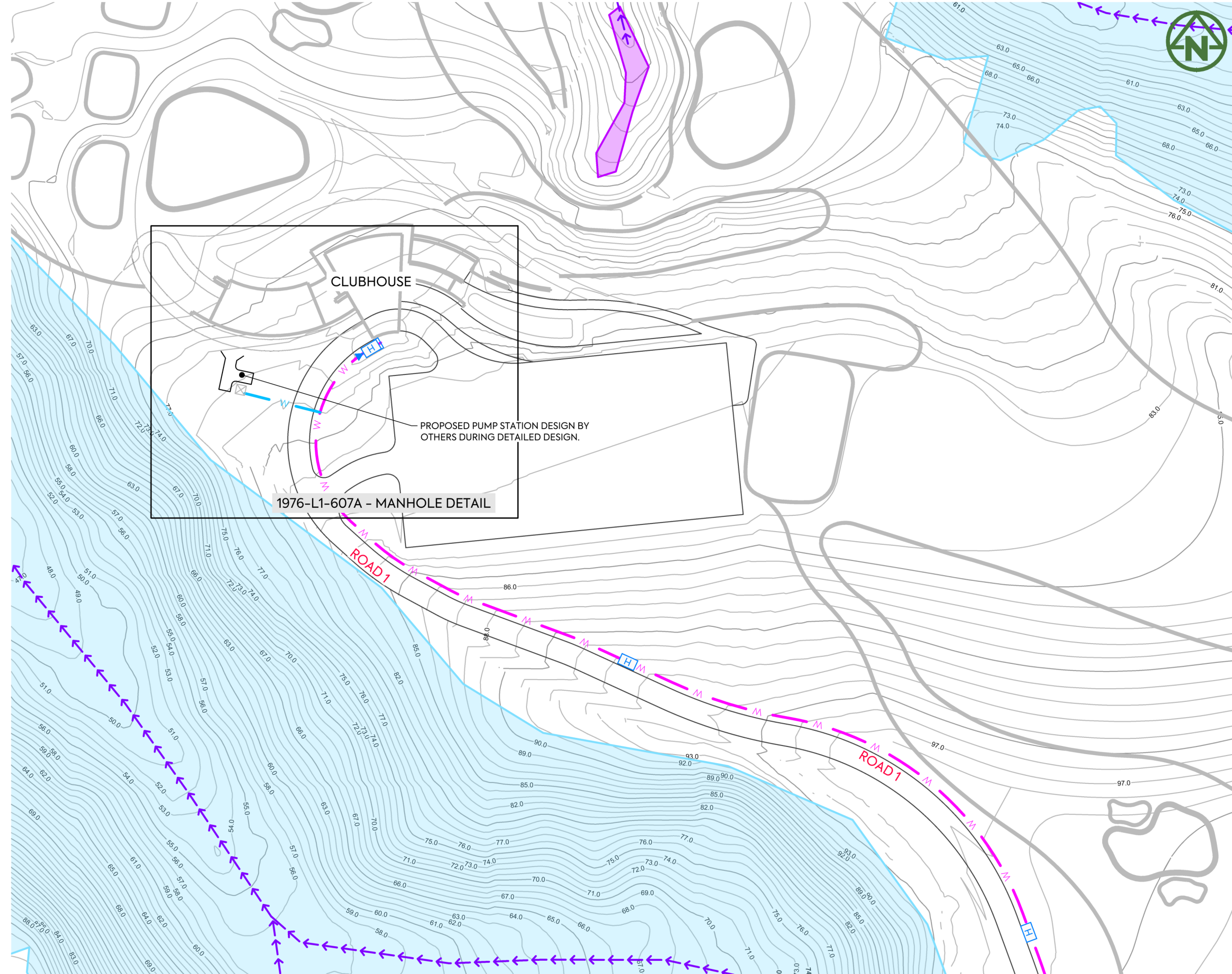


DRAWING LAYOUT PLAN

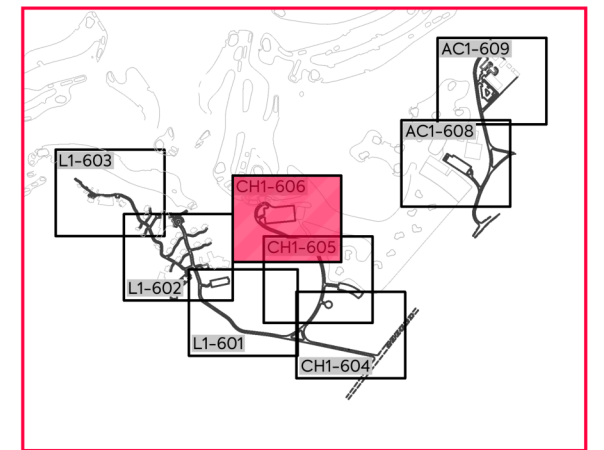
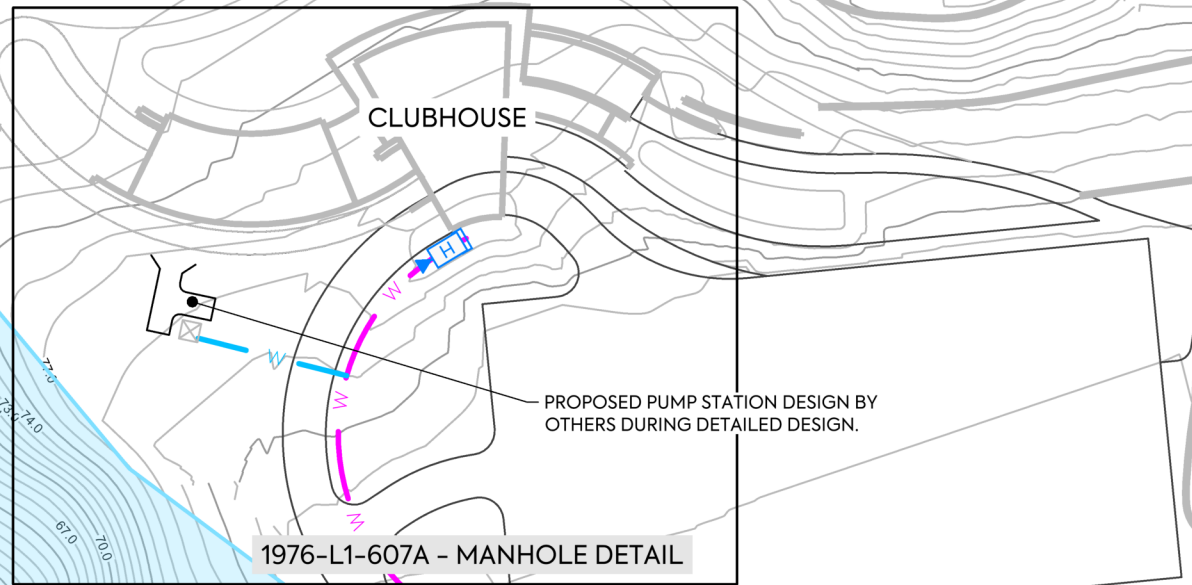
<p>CLIENT: THE BEARS HOME PROJECT MANAGEMENT LTD</p>	<p>PROJECT: MURIWAI DOWNS GOLF PROJECT 610 & 697 MURIWAI ROAD MURIWAI VALLEY</p>	<p>TITLE: PROPOSED WATER SUPPLY GOLF CLUBHOUSE LAYOUT PLAN SHEET 6</p>
<p>PURPOSE OF ISSUE: FOR CONSENT</p>		
<p>SCALE: 1:1000 @ A3</p>		
<p>DO NOT SCALE</p>		
<p>DRAWING NO: 1976-CH1-605</p>		<p>REV: C</p>

REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE
C	ISSUED FOR CONSENT	MO	CIM	JSD	26/11/21
B	SECOND ISSUE	MO	CIM	JSD	05/11/21
A	FIRST ISSUE	MO	CIM	JSD	24/08/21





- NOTES:**
- REFER TO DRAWING 1976-1-600 FOR STANDARD WATERSUPPLY NOTES.
- LEGEND:**
- PROPOSED WATERMAIN (RESERVOIR SUPPLY) — W —
 - PROPOSED WATER SUPPLY (GOLF COURSE IRRIGATION) — W —
 - PROPOSED WATER SUPPLY (POTABLE WATER BORE) — W —
 - PROPOSED WATER SUPPLY (HOUSE CONNECTION) — W —
 - PROPOSED WATER COLLECTION (DOWNPipes TO RAIN TANKS) →→→→→
 - PROPOSED WATER SUPPLY (PREASURISED WATER SUPPLY) ←←←←←
 - PROPOSED FIRE HYDRANT H
 - PROPOSED SLUICE VALVE X
 - PROPOSED BLANK CAP



DRAWING LAYOUT PLAN

<p>CLIENT: THE BEARS HOME PROJECT MANAGEMENT LTD</p>	<p>PROJECT: MURIWAI DOWNS GOLF PROJECT 610 & 697 MURIWAI ROAD MURIWAI VALLEY</p>	<p>TITLE: PROPOSED WATER SUPPLY GOLF CLUBHOUSE LAYOUT PLAN SHEET 7</p>	<p>PURPOSE OF ISSUE: FOR CONSENT</p>
<p>SCALE: 1:1000 @ A3 DO NOT SCALE</p>			<p>DRAWING NO.: 1976-CH1-606 REV: C</p>

REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE
C	ISSUED FOR CONSENT	MO	CIM	JSD	26/11/21
B	SECOND ISSUE	MO	CIM	JSD	05/11/21
A	FIRST ISSUE	MO	CIM	JSD	24/08/21



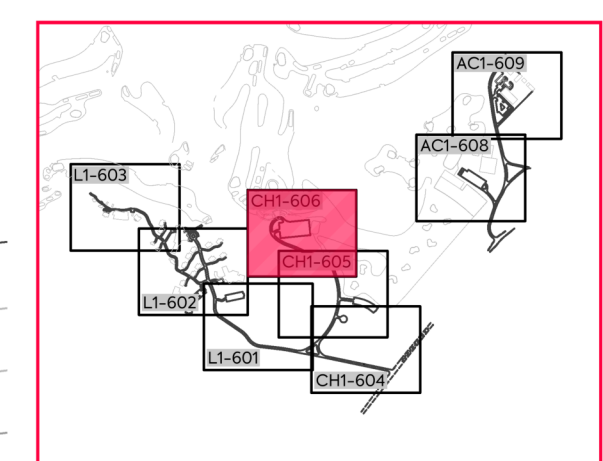


NOTES:

- 1. REFER TO DRAWING 1976-1-600 FOR STANDARD WATERSUPPLY NOTES.

LEGEND:

- PROPOSED WATERMAIN (RESERVOIR SUPPLY)
- PROPOSED WATER SUPPLY (GOLF COURSE IRRIGATION)
- PROPOSED WATER SUPPLY (POTABLE WATER BORE)
- PROPOSED WATER SUPPLY (HOUSE CONNECTION)
- PROPOSED WATER COLLECTION (DOWNPipes TO RAIN TANKS)
- PROPOSED WATER SUPPLY (PREASURISED WATER SUPPLY)
- PROPOSED FIRE HYDRANT
- PROPOSED SLUICE VALVE
- PROPOSED BLANK CAP

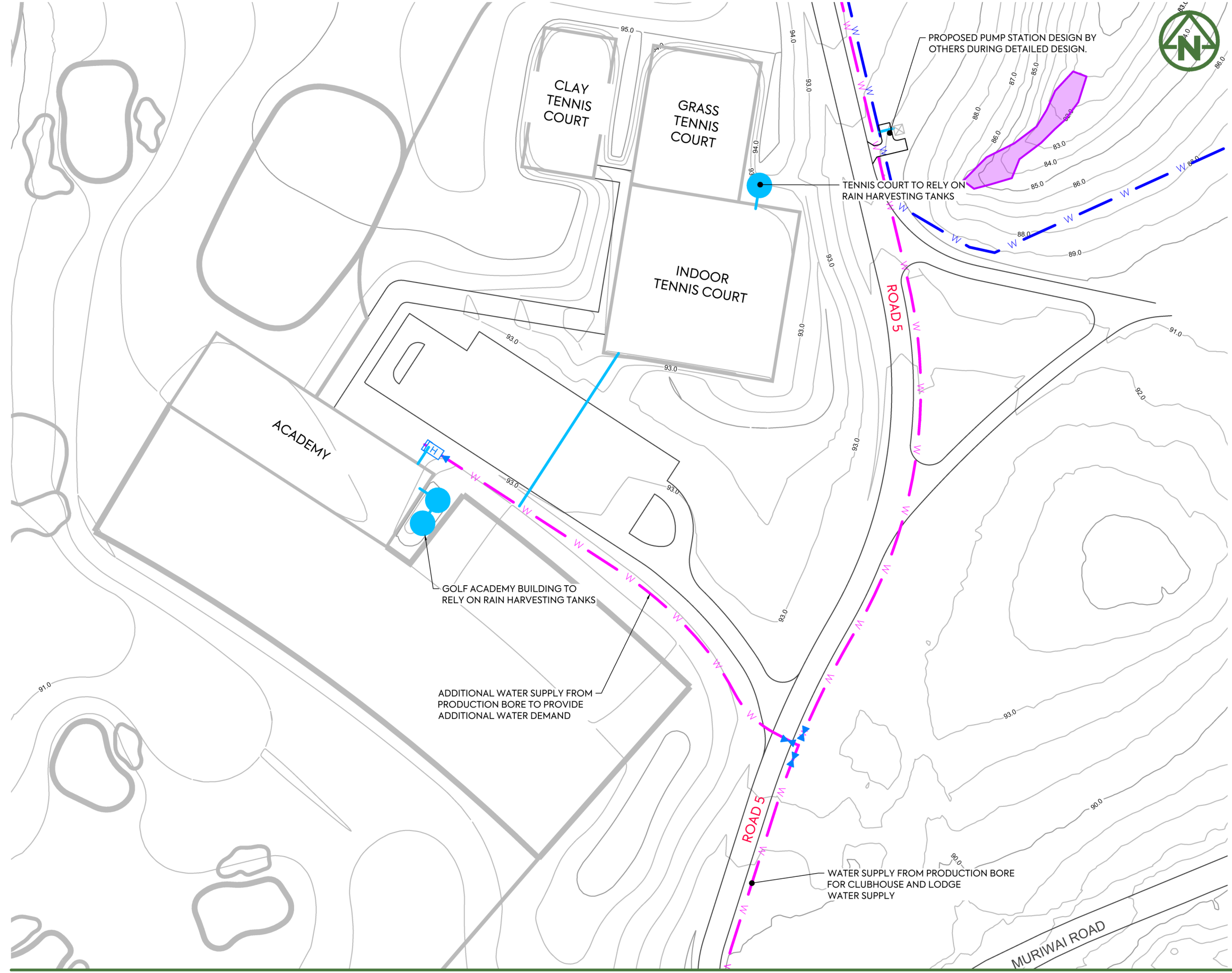


DRAWING LAYOUT PLAN

	<p>CLIENT: THE BEARS HOME PROJECT MANAGEMENT LTD</p>	<p>PROJECT: MURIWAI DOWNS GOLF PROJECT 610 & 697 MURIWAI ROAD MURIWAI VALLEY</p>	<p>TITLE: PROPOSED WATER SUPPLY GOLF CLUBHOUSE LAYOUT PLAN SHEET 8</p>	<p>PURPOSE OF ISSUE: FOR CONSENT</p> <p>SCALE: 1:400 @ A3 DO NOT SCALE</p> <p>DRAWING NO: 1976-CH1-607A REV: C</p>
--	--	--	--	--

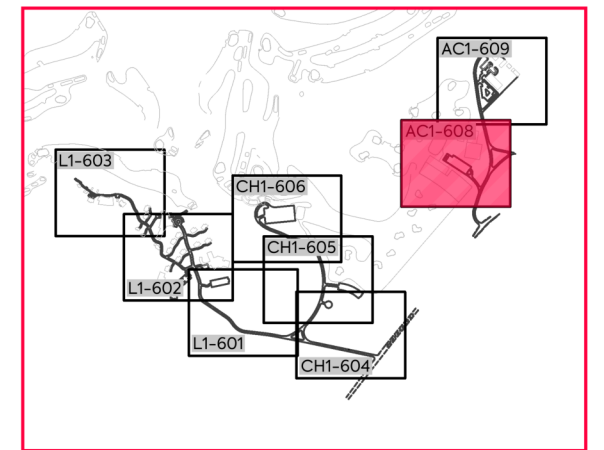
REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE
C	ISSUED FOR CONSENT	MO	CIM	JSD	26/11/21
B	SECOND ISSUE	MO	CIM	JSD	05/11/21
A	FIRST ISSUE	MO	CIM	JSD	24/08/21





NOTES:
 1. REFER TO DRAWING 1976-1-600 FOR STANDARD WATERSUPPLY NOTES.

- LEGEND:**
- PROPOSED WATERMAIN (RESERVOIR SUPPLY) — W —
 - PROPOSED WATER SUPPLY (GOLF COURSE IRRIGATION) — W —
 - PROPOSED WATER SUPPLY (POTABLE WATER BORE) — W —
 - PROPOSED WATER SUPPLY (HOUSE CONNECTION) — W —
 - PROPOSED WATER COLLECTION (DOWNPIPES TO RAIN TANKS) → → → → →
 - PROPOSED WATER SUPPLY (PREASURISED WATER SUPPLY) ← ← ← ← ←
 - PROPOSED FIRE HYDRANT H
 - PROPOSED SLUICE VALVE X
 - PROPOSED BLANK CAP ⊗



DRAWING LAYOUT PLAN

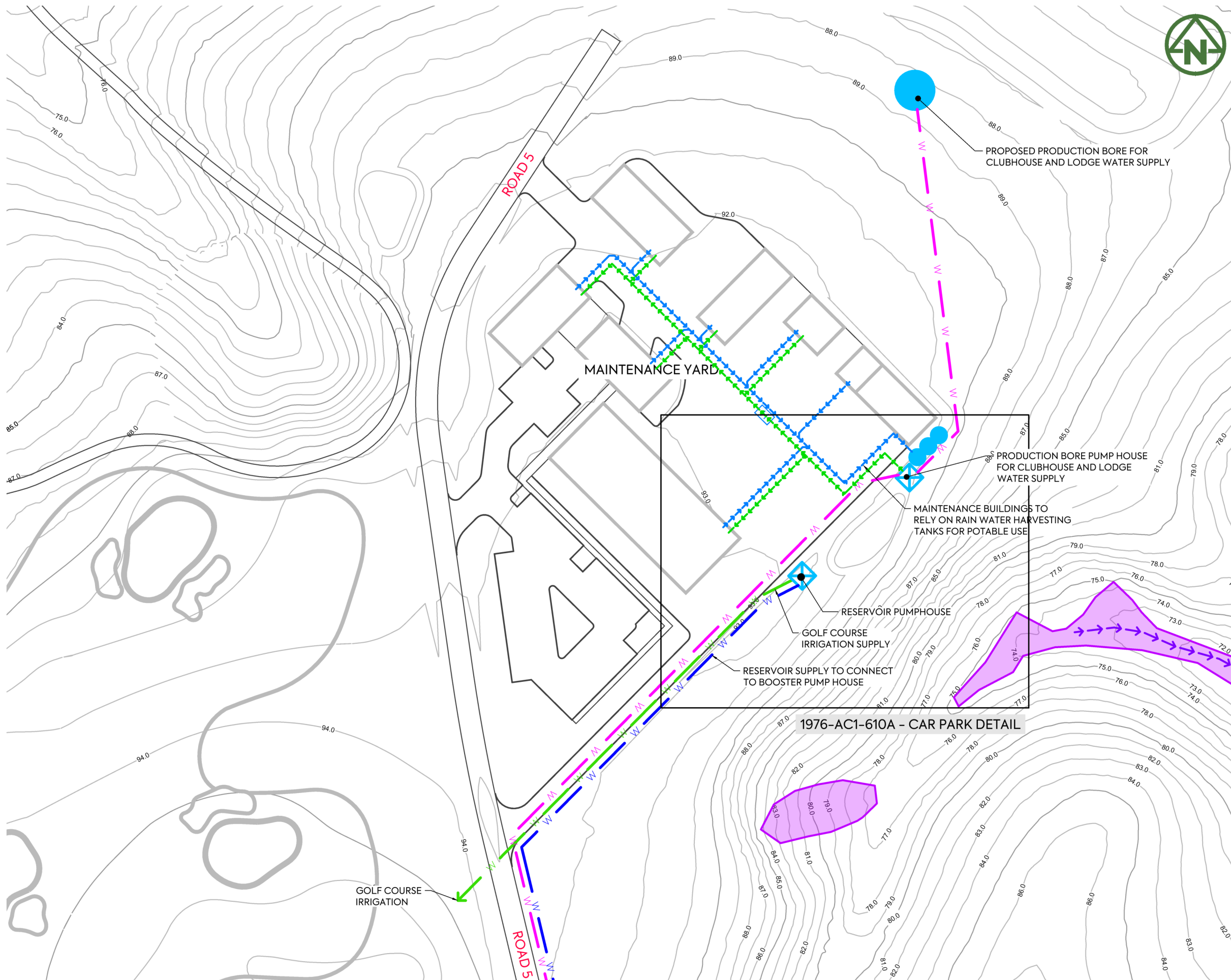
CLIENT: THE BEARS HOME PROJECT MANAGEMENT LTD PROJECT: MURIWAI DOWNS GOLF PROJECT TITLE: PROPOSED WATER SUPPLY GOLF ACADEMY LAYOUT PLAN SHEET 9 PURPOSE OF ISSUE: FOR CONSENT

SCALE: 1:1000 @ A3 DO NOT SCALE REV: C

DRAWING NO: 1976-AC1-608

REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE
C	ISSUED FOR CONSENT	MO	CIM	JSD	26/11/21
B	SECOND ISSUE	MO	CIM	JSD	05/11/21
A	FIRST ISSUE	MO	CIM	JSD	24/08/21





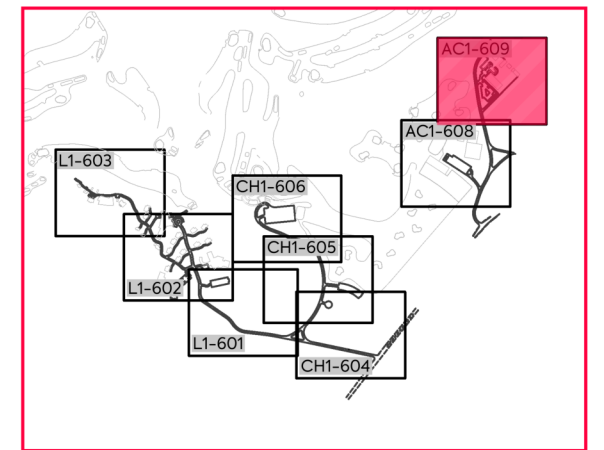
NOTES:

- REFER TO DRAWING 1976-1-600 FOR STANDARD WATERSUPPLY NOTES.

LEGEND:

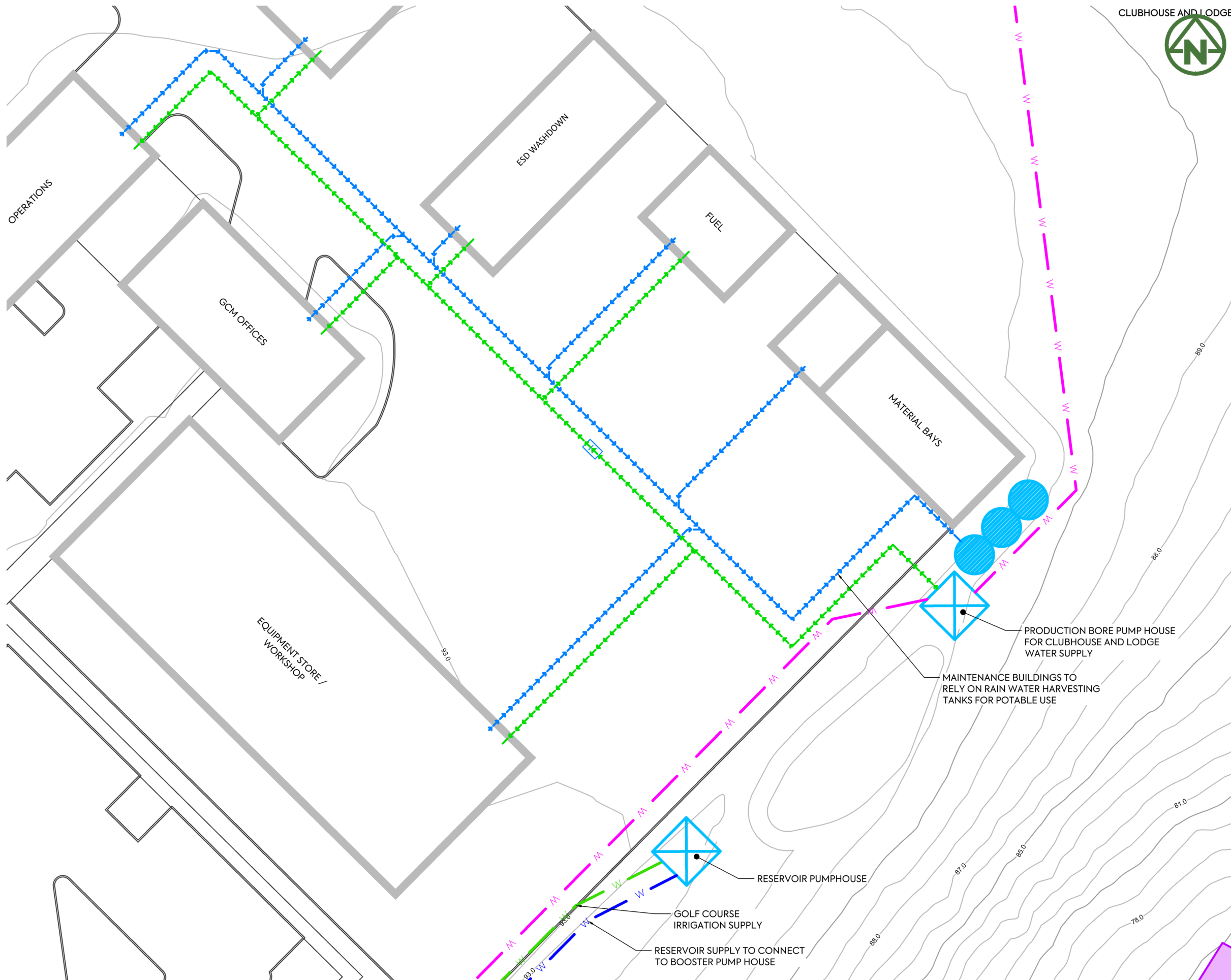
- PROPOSED WATERMAIN (RESERVOIR SUPPLY) — W —
- PROPOSED WATER SUPPLY (GOLF COURSE IRRIGATION) — W —
- PROPOSED WATER SUPPLY (POTABLE WATER BORE) — W —
- PROPOSED WATER SUPPLY (HOUSE CONNECTION) — W —
- PROPOSED WATER COLLECTION (DOWNPIPES TO RAIN TANKS) → → → → →
- PROPOSED WATER SUPPLY (PREASURISED WATER SUPPLY) ← ← ← ← ←
- PROPOSED FIRE HYDRANT H
- PROPOSED SLUICE VALVE ⋈
- PROPOSED BLANK CAP ⊗

1976-AC1-610A - CAR PARK DETAIL

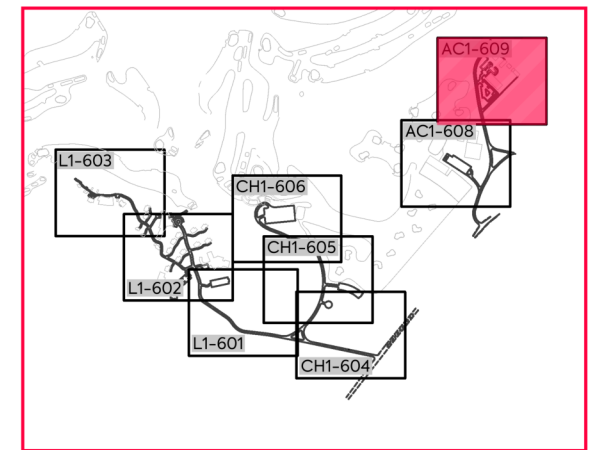


DRAWING LAYOUT PLAN

<p>CLIENT: THE BEARS HOME PROJECT MANAGEMENT LTD</p>	<p>PROJECT: MURIWAI DOWNS GOLF PROJECT 610 & 697 MURIWAI ROAD MURIWAI VALLEY</p>	<p>TITLE: PROPOSED WATER SUPPLY GOLF ACADEMY LAYOUT PLAN SHEET 10</p>	<p>PURPOSE OF ISSUE: FOR CONSENT</p> <p>SCALE: 1:1000 @ A3 DO NOT SCALE</p> <p>DRAWING NO: 1976-AC1-609</p>																		
<table border="0" style="width: 100%;"> <tr> <td style="width: 10%;">C</td> <td style="width: 70%;">ISSUED FOR CONSENT</td> <td style="width: 10%;">MO</td> <td style="width: 10%;">CIM</td> <td style="width: 10%;">JSD</td> <td style="width: 10%;">26/11/21</td> </tr> <tr> <td>B</td> <td>SECOND ISSUE</td> <td>MO</td> <td>CIM</td> <td>JSD</td> <td>05/11/21</td> </tr> <tr> <td>A</td> <td>FIRST ISSUE</td> <td>MO</td> <td>CIM</td> <td>JSD</td> <td>24/08/21</td> </tr> </table>	C	ISSUED FOR CONSENT	MO	CIM	JSD	26/11/21	B	SECOND ISSUE	MO	CIM	JSD	05/11/21	A	FIRST ISSUE	MO	CIM	JSD	24/08/21	<p>MCKENZIE & CO.</p>	<p>REV DESCRIPTION DRN BY CHK BY APP BY DATE</p>	<p>REV: C</p>
C	ISSUED FOR CONSENT	MO	CIM	JSD	26/11/21																
B	SECOND ISSUE	MO	CIM	JSD	05/11/21																
A	FIRST ISSUE	MO	CIM	JSD	24/08/21																



- NOTES:**
- REFER TO DRAWING 1976-1-600 FOR STANDARD WATERSUPPLY NOTES.
- LEGEND:**
- PROPOSED WATERMAIN (RESERVOIR SUPPLY) — W —
 - PROPOSED WATER SUPPLY (GOLF COURSE IRRIGATION) — W —
 - PROPOSED WATER SUPPLY (POTABLE WATER BORE) — W —
 - PROPOSED WATER SUPPLY (HOUSE CONNECTION) — W —
 - PROPOSED WATER COLLECTION (DOWNPIPES TO RAIN TANKS) → → → → →
 - PROPOSED WATER SUPPLY (PREASURISED WATER SUPPLY) ← ← ← ← ←
 - PROPOSED FIRE HYDRANT H
 - PROPOSED SLUICE VALVE ⋈
 - PROPOSED BLANK CAP ⊗



DRAWING LAYOUT PLAN

PLOT DATE 2021-11-25 14:26:32 WWW.MCKENZIEANDCO.CO.NZ THIS DRAWING IS SOLELY FOR USE BY THE CLIENT ON THIS PROJECT ONLY. NO LIABILITY IS ACCEPTED IN ITS USE BY ANY OTHER ENTITY OR FOR ANY OTHER PURPOSE C:\12DS\DATA\MCKFS01\1976 610 MURIWAI ROAD_766\DRAWINGS\1_RESOURCE CONSENT\1976-1-600.DWG

GENERAL CONSTRUCTION NOTES

STANDARDS RELATING TO WORKS

All works are to be carried out to the requirements of the Health & Safety Act 1992

All works is to be carried out will be of the highest tradesman like standard.

MANUFACTURERS SPECIFICATIONS

All materials to be used and installed as per Manufacturers Specifications.

CONCRETE

All on-site concrete to be 17.5 Mpa unless otherwise stated.

WELDING & FIXINGS

All steelwork to be workshop fabricated , No on-site welding.

All steelwork to be Hot-Dip Galvanised to AS/NZS 46809

All metal nuts , bolts & washers to be Stainless steel 316 unless otherwise stated. A Nickel anti-seize free of copper , lead , sulphides , chlorides and carbons (graphite) shall be used on bolts.

REINFORCING STEEL

All steel to be ' deformed ' mild steel unless otherwise specified.

All steel to be placed central with minimum 60mm minimum cover for principal steel and 50mm elsewhere.

All radius required to be cold formed.

WORKS REQUIRING EPOXY

Any Stainless Steel fixings that are epoxied in place are required to be supplied from the manufacturer ' NOT OILED ' .

All Metal fixings and or Stainless Steel to be epoxied will use EPCON C6 epoxy or similar , to Engineers recommendations.

PROTECTIVE WRAPPING

All fittings & valves (Non Plastic) to be wrapped with Denso Petrolatum system, as per the suppliers instructions ; Primer ; Denso mastic for profiling ; Tape & protective membrane (Polythene) .

For PE pipe application, a Butyl System shall be used ; (Densolex System) without primer on the PE surface. Alternatively Polyken 930 may be used.

Watercare logo and title block for General Construction Notes, WS 3, dated 14-04-2015.

Typical Trench Reinstatement and Bedding Details for Water Supply. Includes cross-sections for Grass Area & Footpath, Driveway, and Footpath/Vehicle Crossing. Includes notes on materials and construction.

Typical Watermain Intersection Details. Includes Tee Intersection A, Tee Intersection B, and Cross Intersection. Includes notes on pipe laying, bends, and valves.

Road Crossing Details and Principal Main to Rider Main Connections. Includes plan and elevation views of principal main crossings under road and reduction to rider main connections.

Boundary Zone Detail. Includes elevation view of a hydrant box and lid with associated valves and riser pipes.

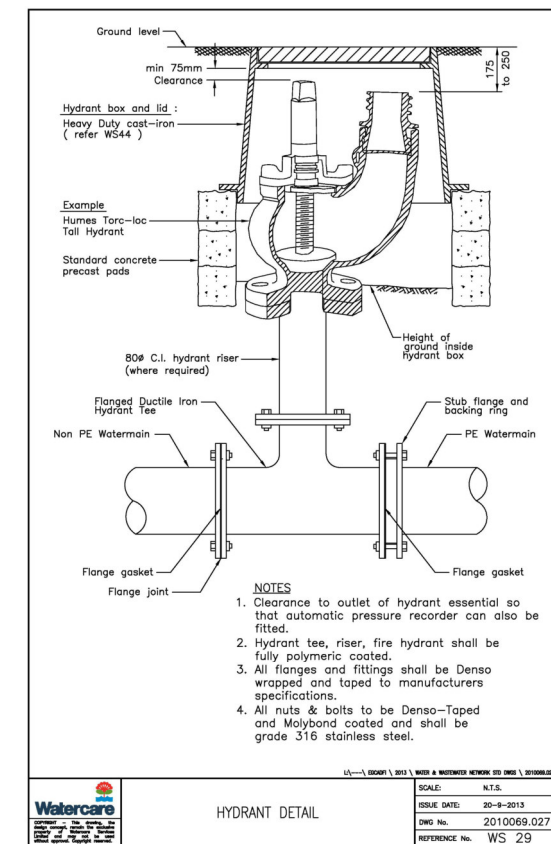
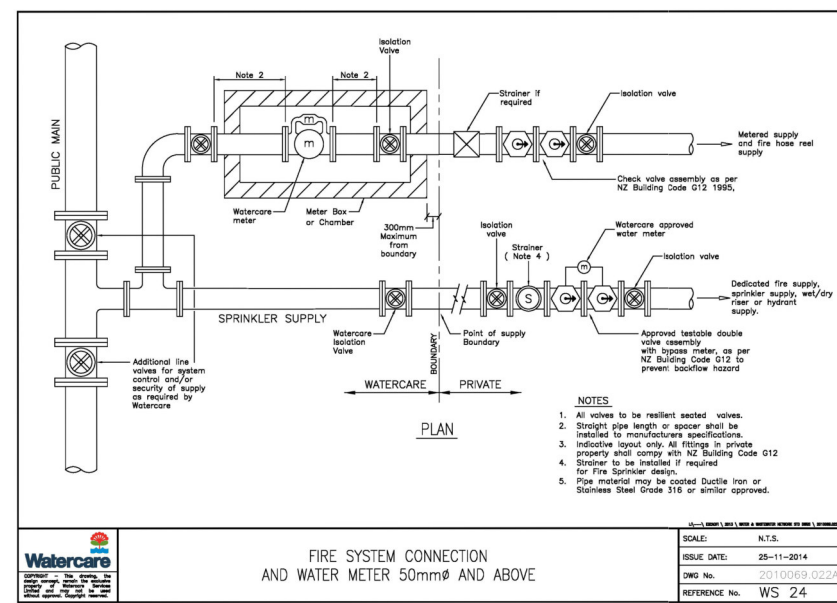
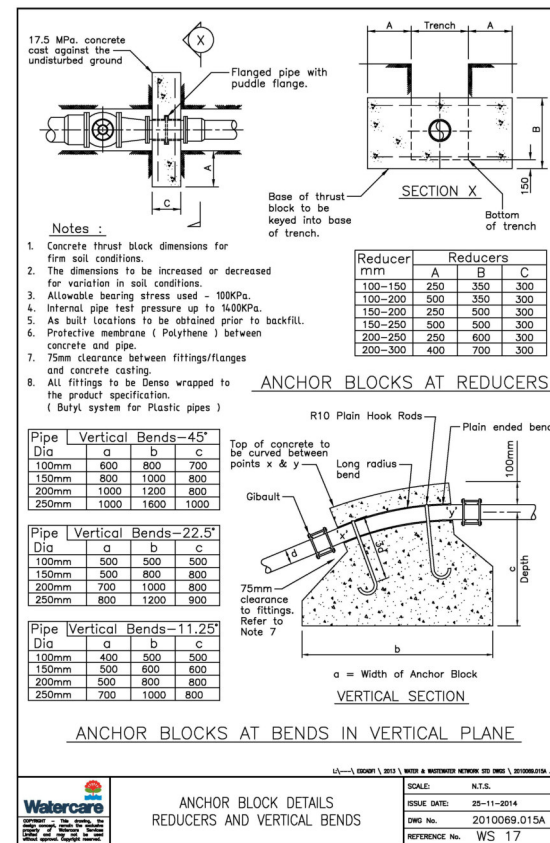
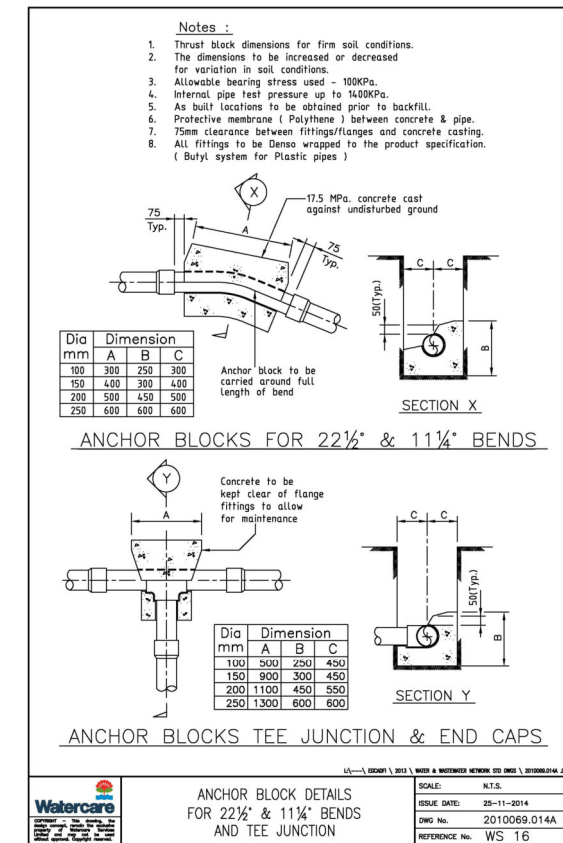
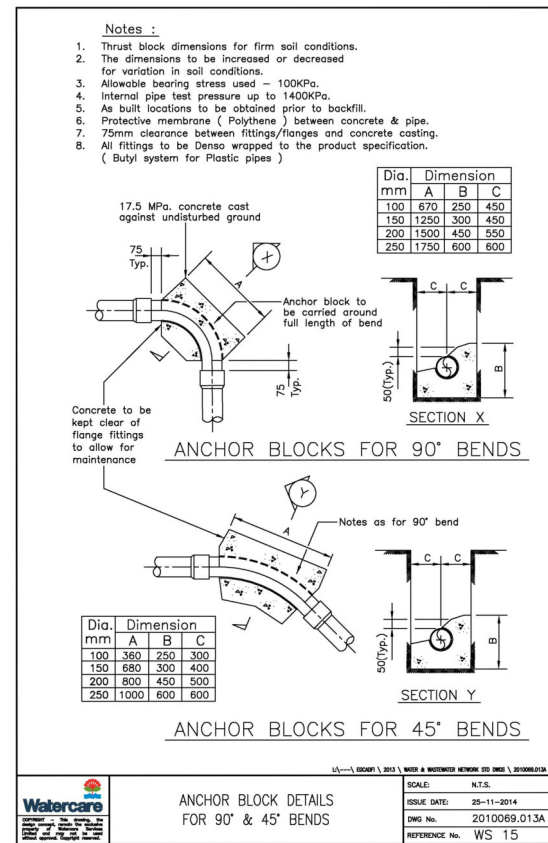
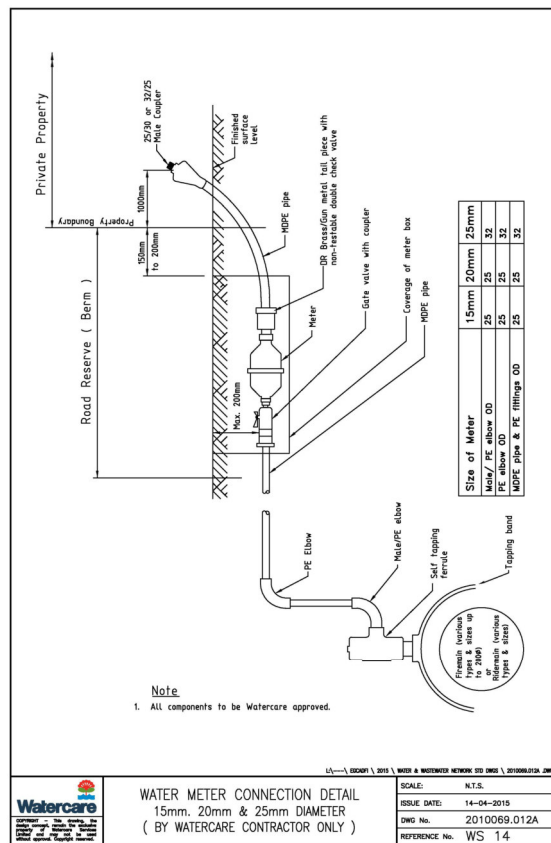
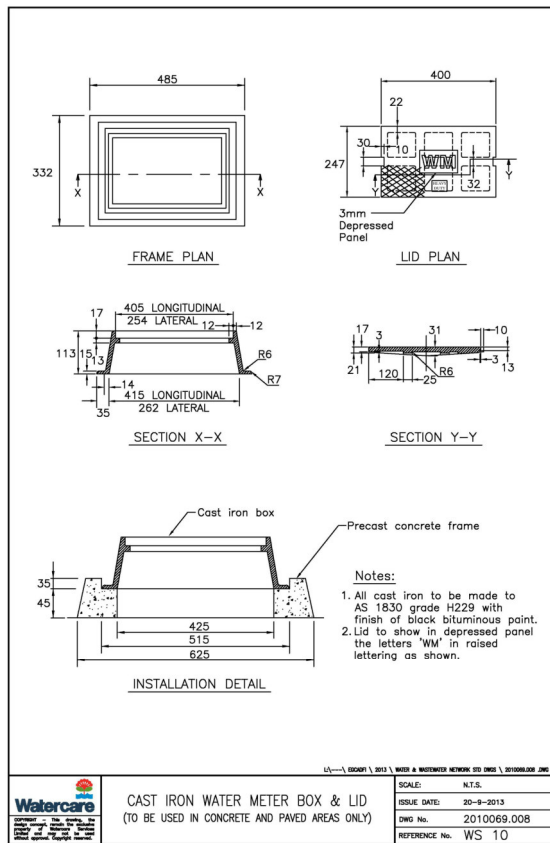
Valve and Hydrant Markings. Includes plan view of hydrant markings and valve markings with notes on paint colors and reflective markers.

C	ISSUED FOR CONSENT	MO	CIM	JSD	26/11/21			
B	SECOND ISSUE	MO	CIM	JSD	05/11/21			
A	FIRST ISSUE	MO	CIM	JSD	24/08/21			
REV	DESCRIPTION	DRN	BY	CHK	BY	APP	BY	DATE



CLIENT: THE BEARS HOME PROJECT MANAGEMENT LTD PROJECT: MURIWAI DOWNS GOLF PROJECT TITLE: PROPOSED WATER SUPPLY STANDARD DETAILS SHEET 1 PURPOSE OF ISSUE: FOR CONSENT

SCALE: N.T.S. DO NOT SCALE DRAWING NO: 1976-1-690 REV: C



C	ISSUED FOR CONSENT	MO	CIM	JSD	26/11/21		
B	SECOND ISSUE	MO	CIM	JSD	05/11/21		
A	FIRST ISSUE	MO	CIM	JSD	24/08/21		
REV	DESCRIPTION	DRN	BY	CHK	BY	APP	DATE



CLIENT: THE BEARS HOME PROJECT MANAGEMENT LTD

PROJECT: MURIWAI DOWNS GOLF PROJECT
 610 & 697 MURIWAI ROAD
 MURIWAI VALLEY

TITLE: PROPOSED WATER SUPPLY
 STANDARD DETAILS
 SHEET 2

PURPOSE OF ISSUE: FOR CONSENT

SCALE: N.T.S.
 DO NOT SCALE

DRAWING NO: 1976-1-691
 REV: C

