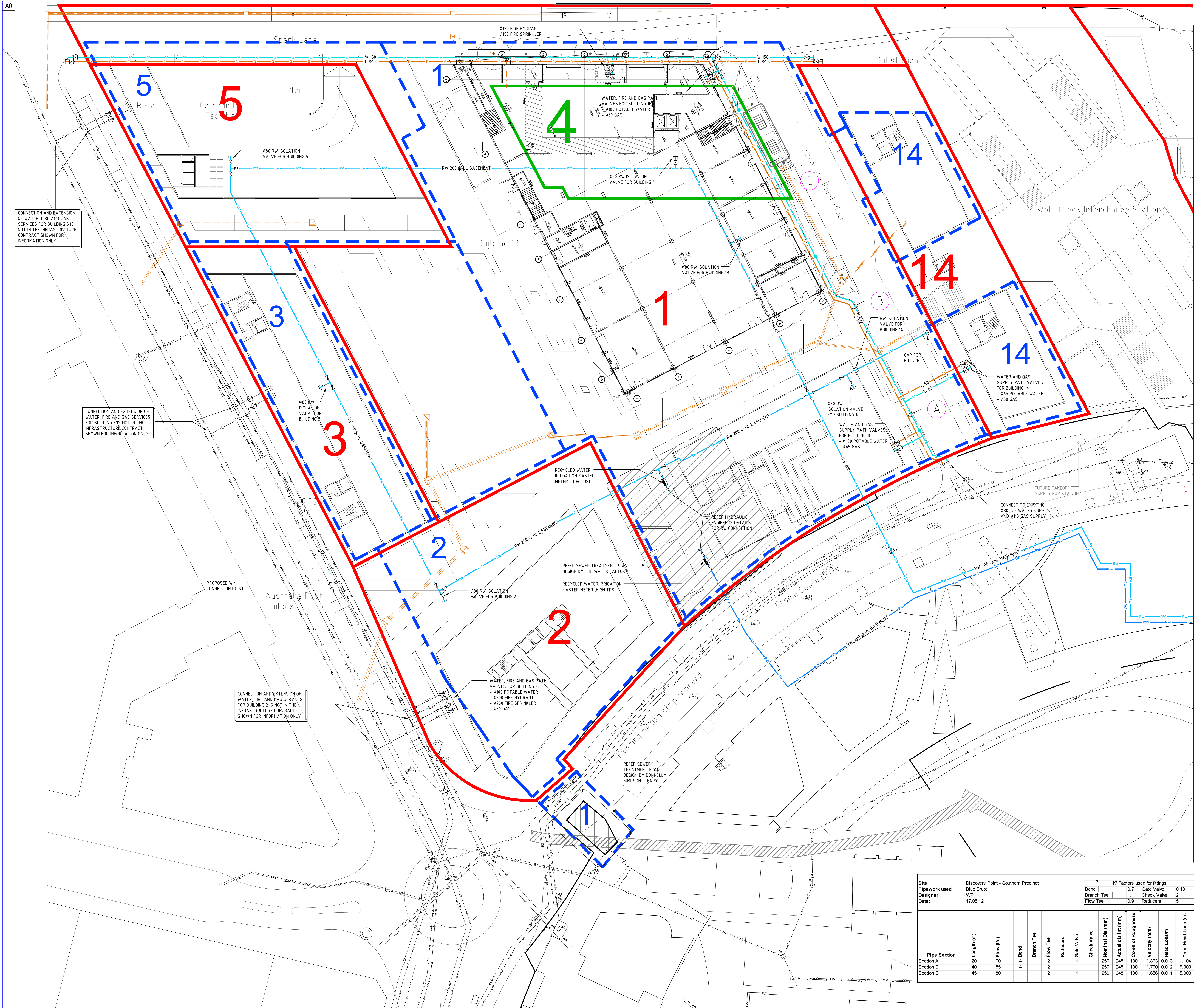




ELECTRICAL LEGEND

- EXISTING HIGH VOLTAGE
- PROPOSED ROUTE OF NEW HV CONDUITS (6 x 150mm DIA)
- PROPOSED ROUTE OF NEW NBN CO LEAD-IN CONDUITS/PITS TO SITE
- ASSUMED LOCATION OF EXISTING TELSTRA CONDUITS/PITS TO EXISTING BUILDINGS
- EXISTING ROUTE OF NBN CO COMMS CONDUITS
- PROPOSED ROUTE OF LOW VOLTAGE CONDUITS
- PROPOSED ROUTE OF NEW NBN CO LOCAL NETWORK COMMS CONDUITS/PITS (12 x 100mm DIA)
- SERVICE DROP CONDUITS (2 x 100mm DIA)
- FIBRE DISTRIBUTION HUB PIT - 2000 x 555 x 900mm(D)
- LOCAL NETWORK PIT - 700 x 450 x 650mm(D)
- LOCAL NETWORK CONNECTION PIT - 1360 x 555 x 860mm(D)

ELECTRICAL NOTES

1. LOW VOLTAGE (LVI) SERVICES ARE TO BE DETAILED BY ELECTRICAL ENGINEER.

GENERAL NOTES

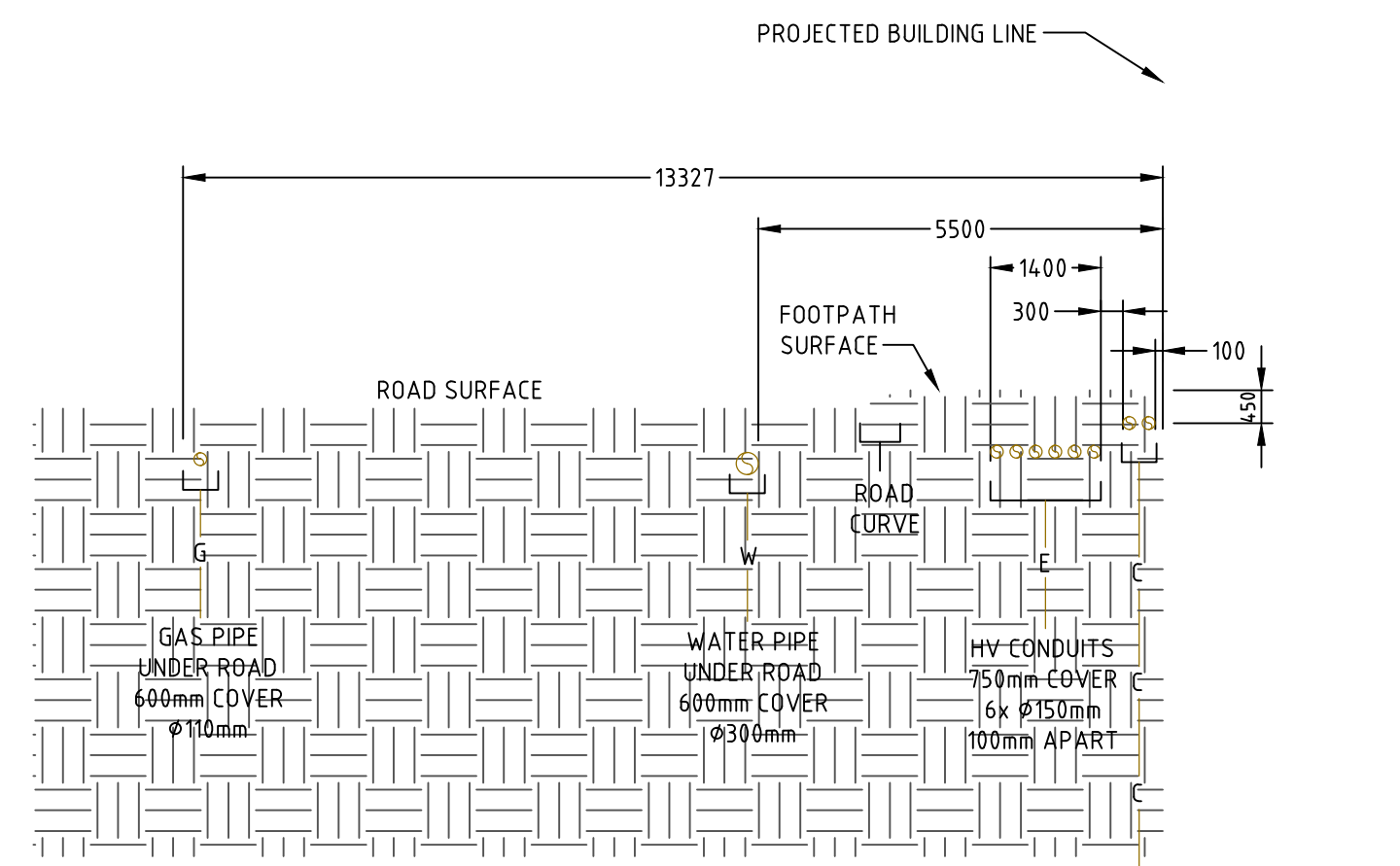
- ALL NEW WORK IN COLOUR
- ALL EXISTING WORK IN BLACK

HYDRAULIC LEGEND

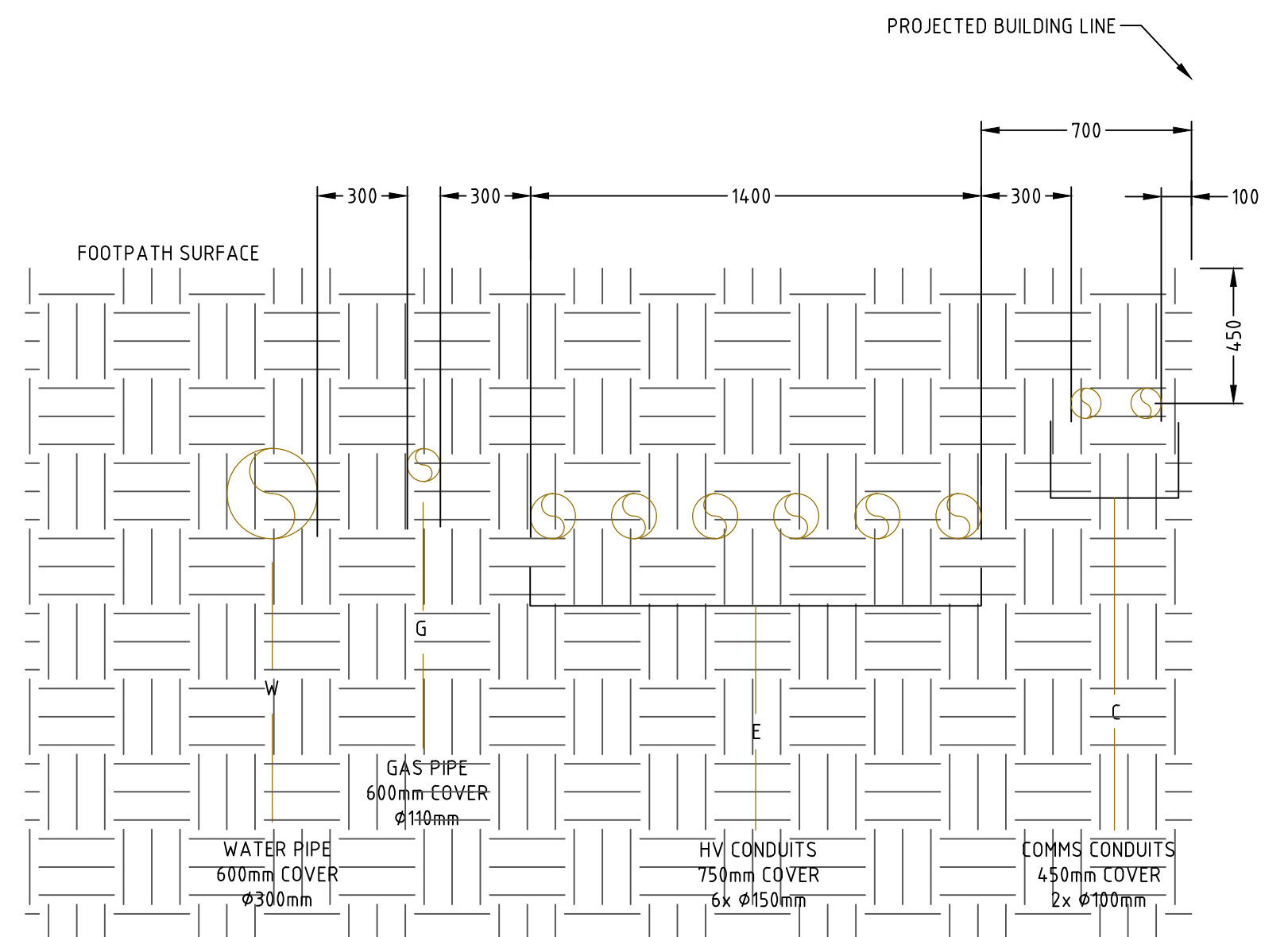
- POTABLE COLD WATER
- STOP VALVE (PATH) WATER
- STOP VALVE (PATH) RECYCLED WATER
- STREET HYDRANT
- EXISTING WATER MAIN
- RECYCLED WATER
- RECYCLED WATER IRRIGATION (ONLY)
- STOP VALVE
- NATURAL GAS
- PATH VALVE
- SEWER
- ACCESS CHAMBER (SMH)
- GROUND LEVEL STAGE BOUNDARY
- BASEMENT STAGE BOUNDARY
- ALTERNATIVE STAGE BOUNDARY ABOVE

HYDRAULIC NOTES

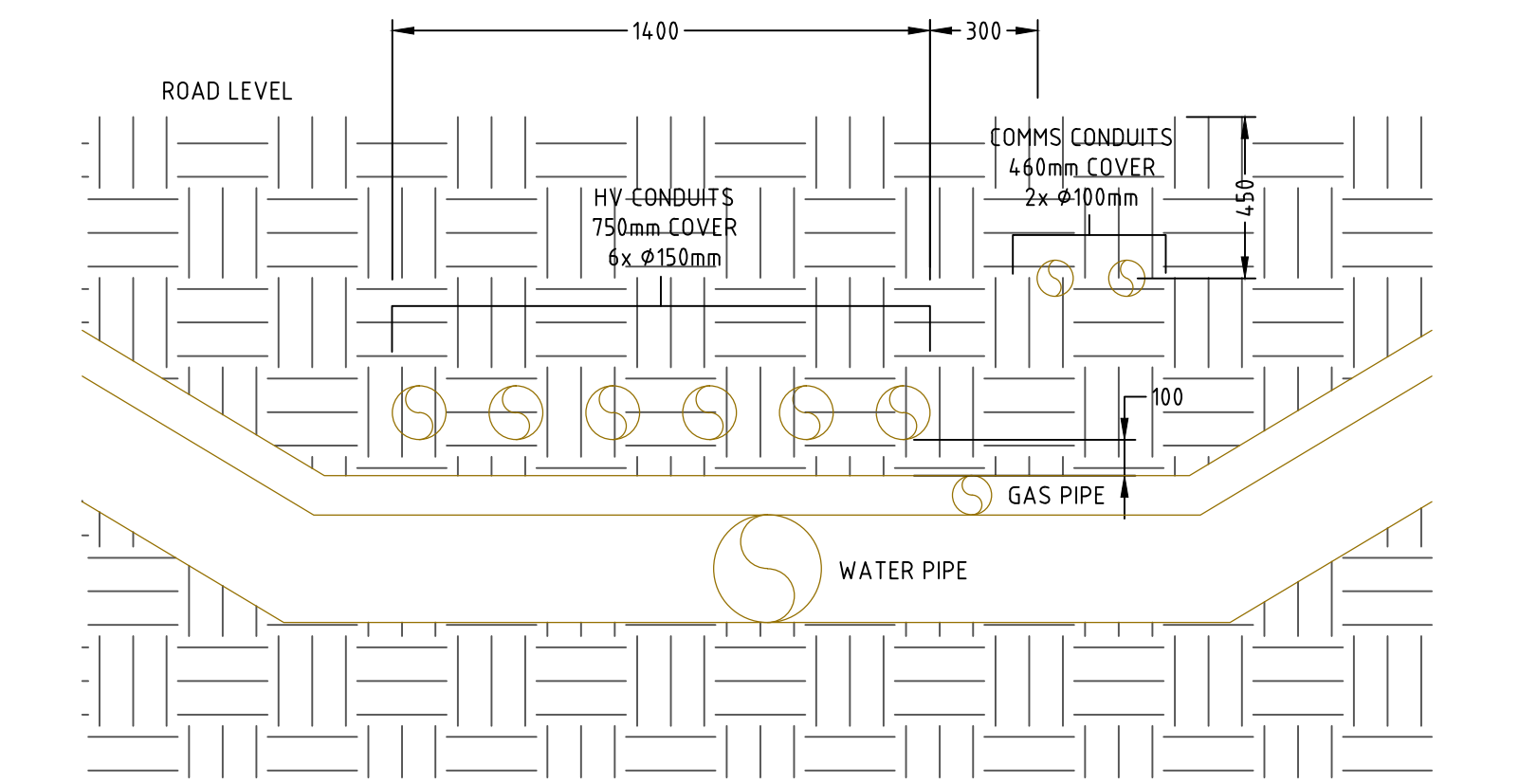
1. LOCATION FOR METERS, REGULATOR SETS AND BOOSTER ASSEMBLIES ARE INDICATIVE
2. COORDINATION WITH NEW AND EXISTING SERVICES ARE YET TO BE FINALIZED
3. REFER TO HYDRAULIC ENGINEERS DETAILS FOR RECYCLED WATER LOCATION AND FINAL ROUTE THROUGH HIGH LEVEL BASEMENT.



SECTION A-A
N.T.S.



SECTION B-B
N.T.S.



SECTION C-C
N.T.S.

Site:	Discovery Point - Southern Precinct	K' Factors used for fittings			
Pipeline used:	Blue Brute	Bend	0.7	Gate Valve	0.13
Designer:	VIP	Branch Tee	1.1	Check Valve	2
Date:	17.05.12	Flow Tee	0.9	Reducers	5
Pipe Section					
	Length (m)	Bend	Branch Tee	Flow Tee	Reducers
Section A	20	4	2	2	2
Section B	40	8	4	4	4
Section C	45	9	4	4	4
Check Valve					
	Nominal Dia (mm)	Actual dia (mm)	Co-efficient of Roughness	Velocity (m/s)	Head Loss (m)
	250	248	130	1.863	0.013
	250	248	130	1.760	0.012
	250	248	130	1.696	0.011
Total Head Loss (m)					
					5.000

T1

FINAL ISSUE

PL

PN

18.05.12

P5

PRELIMINARY ISSUE

PL

RD

11.05.12

P4

PRELIMINARY ISSUE

PL

RD

02.05.12

P3

PRELIMINARY ISSUE

JT/PL

U

27.04.12

P2

PRELIMINARY ISSUE

JT/PL

U

19.04.12

P1

PRELIMINARY ISSUE

JT

U

16.03.12

REV

DESCRIPTION

DRN

CHK

DATE

REV

DESCRIPTION

DRN

CHK

DATE

REV

DESCRIPTION

DRN

CHK

DATE

REV

DESCRIPTION

DRN

CHK

DATE

REV

DESCRIPTION

DRN

CHK

DATE

CLIENT

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PROJECT

DISCOVERY POINT MASTERPLAN
BRODIE SPARK DRIVE
WOLLI CREEK

DRAWING

ELECTRICAL & HYDRAULIC SERVICES
INFRASTRUCTURE
MASTER PLAN -
OPTION A

SCALE

1:250@A0

DATE

01.02.12

DESIGNED

WJRD

PROJECT No

20110425

DRAWING No

SI-B01

ISSUE

T1

REF:

20110425-SI-B01

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