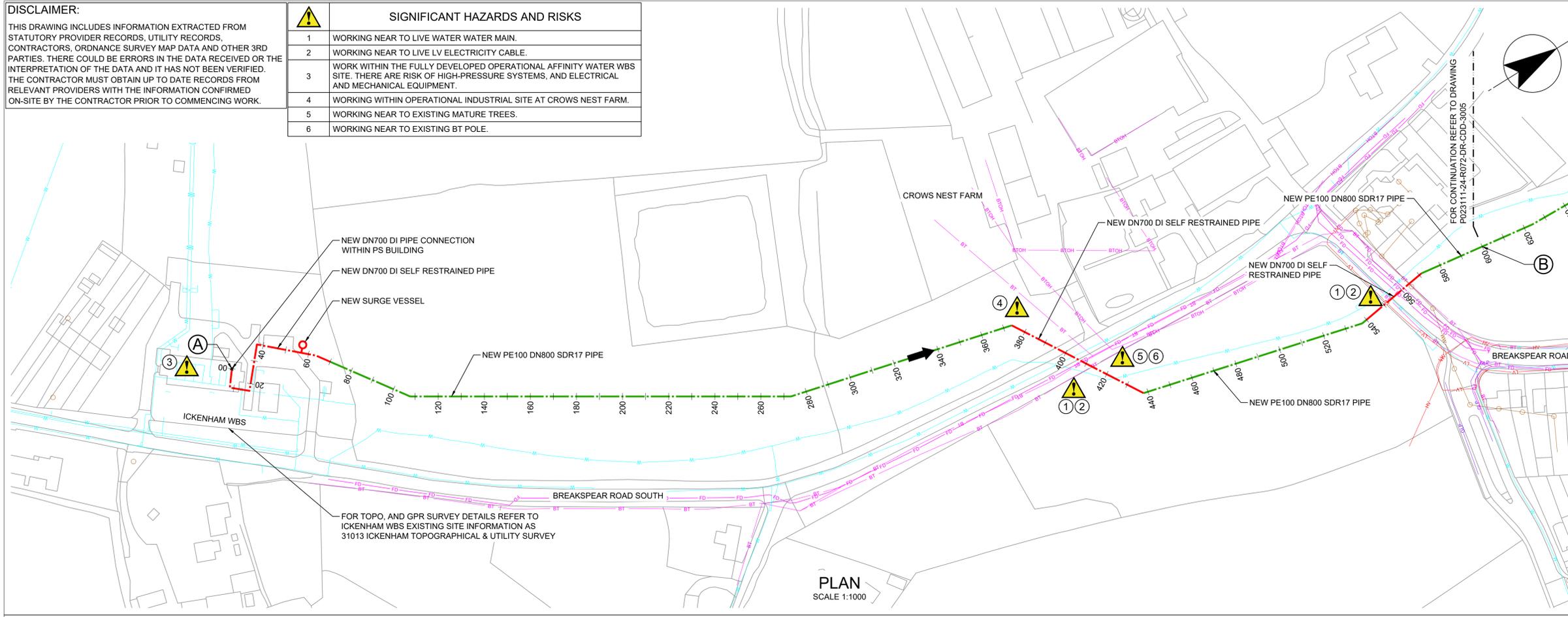


**DISCLAIMER:**  
THIS DRAWING INCLUDES INFORMATION EXTRACTED FROM STATUTORY PROVIDER RECORDS, UTILITY RECORDS, CONTRACTORS, ORDNANCE SURVEY MAP DATA AND OTHER 3RD PARTIES. THERE COULD BE ERRORS IN THE DATA RECEIVED OR THE INTERPRETATION OF THE DATA AND IT HAS NOT BEEN VERIFIED. THE CONTRACTOR MUST OBTAIN UP TO DATE RECORDS FROM RELEVANT PROVIDERS WITH THE INFORMATION CONFIRMED ON-SITE BY THE CONTRACTOR PRIOR TO COMMENCING WORK.

SIGNIFICANT HAZARDS AND RISKS	
1	WORKING NEAR TO LIVE WATER MAIN.
2	WORKING NEAR TO LIVE LV ELECTRICITY CABLE.
3	WORK WITHIN THE FULLY DEVELOPED OPERATIONAL AFFINITY WATER WBS SITE. THERE ARE RISK OF HIGH-PRESSURE SYSTEMS, AND ELECTRICAL AND MECHANICAL EQUIPMENT.
4	WORKING WITHIN OPERATIONAL INDUSTRIAL SITE AT CROWS NEST FARM.
5	WORKING NEAR TO EXISTING MATURE TREES.
6	WORKING NEAR TO EXISTING BT POLE.



DO NOT SCALE - IF IN DOUBT ASK

**NOTES**

- ALL DIMENSIONS IN MILLIMETRES AND ALL LEVELS IN METRES UNLESS SHOWN OTHERWISE.
- SERVICE LOCATIONS EXTRACTED FROM THIRD PARTY UTILITY RECORDS AND SHOWN FOR INFORMATION ONLY; WILL REQUIRE FURTHER VALIDATION BEFORE CONSTRUCTION.
- WHERE UTILITY DEPTH IS NOT KNOWN, A DEPTH HAS BEEN ASSUMED BASED ON HSG47 (THIRD EDITION).
- ONLY SIGNIFICANT UTILITY CROSSINGS SHOWN ON LONG SECTION.
- GROUND LEVEL INFORMATION HAS BEEN TAKEN FROM LIDAR DATA AND ITS ACCURACY HAS NOT BEEN VERIFIED.
- SEWER DEPTHS ARE TAKEN FROM AVAILABLE GIS DATA FROM THAMES WATER. WHERE DEPTH DATA IS NOT AVAILABLE, THESE HAVE BEEN ASSUMED TO BE 2.5m DEPTH TO PIPE CROWN.

**LEGEND**

- NEW PE100 DN800 SDR17 PIPE
- NEW DN700 DI SELF RESTRAINED PIPE
- FLOW DIRECTION
- AFFINITY WATER MAIN
- GAS MAIN - LOW PRESSURE
- GAS MAIN - MEDIUM PRESSURE
- WASTEWATER SEWER
- WASTEWATER SEWER MANHOLE
- COMMUNICATION / FIBRE DUCTS - UNDERGROUND
- ELECTRICITY - UNDERGROUND
- HIGH VOLTAGE ELECTRICITY - UNDERGROUND
- LOW VOLTAGE ELECTRICITY - UNDERGROUND
- EXTRA HIGH VOLTAGE ELECTRICITY - UNDERGROUND
- EXTRA HIGH VOLTAGE ELECTRICITY - OVERHEAD
- BT CABLE - UNDERGROUND
- BT CABLE - OVERHEAD

**REFERENCES**

- P023111-24-R072-DR-CDD-3005 PIPELINE PLAN AND PROFILE SHEET 02 OF 17
- P023111-24-R072-DR-CDD-3021 PIPELINE PLAN AND PROFILE SHEET LAYOUT PLAN

**STANTEC DRAWING NUMBER**  
331101845/01/C/0004

SCALE 1:250  
SCALE 1:1000

Rev	Description	Drawn	Check	Approve	Date
P01	FOR INFORMATION ONLY	HAS	LB	DR	25.02.25

"P" Preliminary "T" Tender "C" Construction "R" Record

Affinity Water Limited  
Tamblin Way  
Hatfield  
Herts. AL10 9EZ

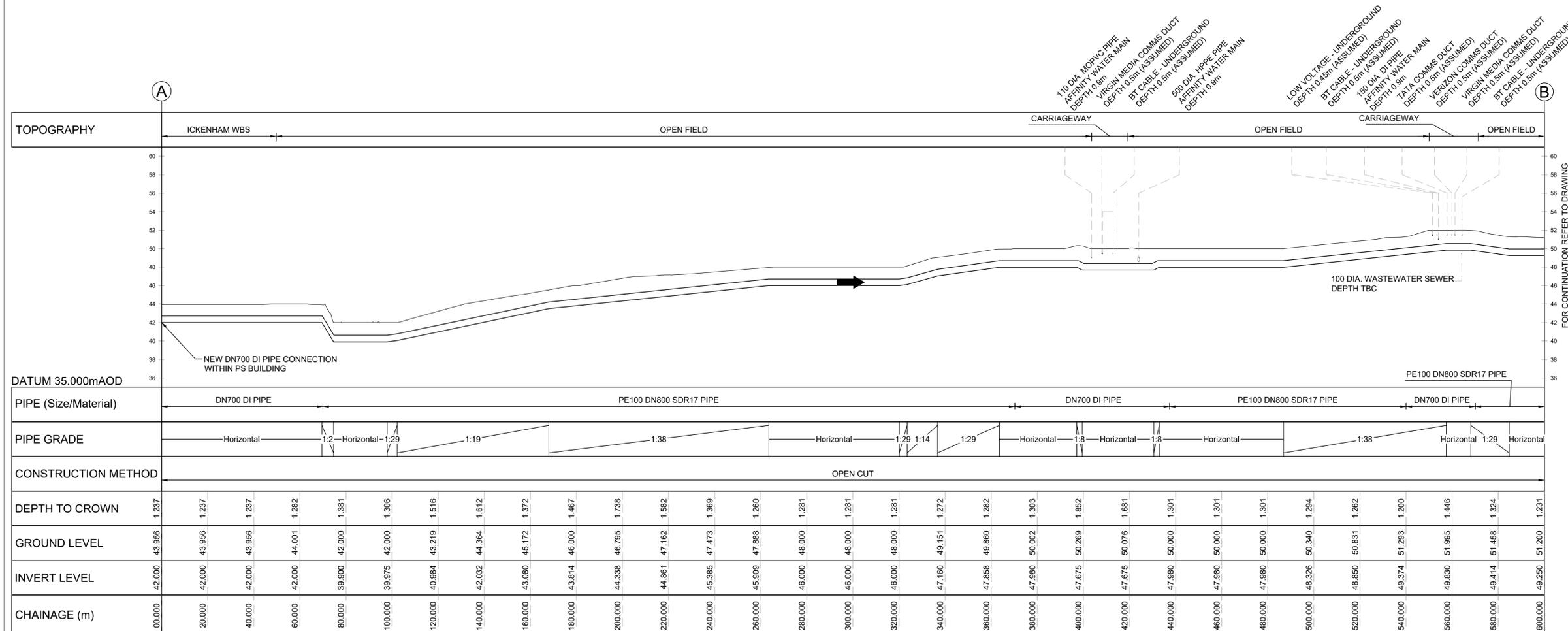
Site: **TRUNK MAIN**

Project: **C-04113 ICKENHAM-HARROW TRUNK MAIN**

Title: **PIPELINE PLAN AND PROFILE SHEET 01 OF 17**

Job No:	Sheet Size:	A1	Scale:	AS SHOWN
Drawn: HAS	Checked By: LB	Approved By: DR		

Drawing No: **P023111-24-R072-DR-CDD-3004** Rev: **P01**



**DISCLAIMER:**  
 THIS DRAWING INCLUDES INFORMATION EXTRACTED FROM STATUTORY PROVIDER RECORDS, UTILITY RECORDS, CONTRACTORS, ORDNANCE SURVEY MAP DATA AND OTHER 3RD PARTIES. THERE COULD BE ERRORS IN THE DATA RECEIVED OR THE INTERPRETATION OF THE DATA AND IT HAS NOT BEEN VERIFIED. THE CONTRACTOR MUST OBTAIN UP TO DATE RECORDS FROM RELEVANT PROVIDERS WITH THE INFORMATION CONFIRMED ON-SITE BY THE CONTRACTOR PRIOR TO COMMENCING WORK.

SIGNIFICANT HAZARDS AND RISKS	
1	WORKING NEAR TO LIVE WATER MAINS.
2	WORKING NEAR TO LIVE LV AND HV ELECTRICITY CABLE.
3	WORKING NEAR TO LIVE GAS MAIN.
4	WORKING WITHIN A BUSY MAIN ROAD AND JUNCTION.
5	WORKING NEAR TO EXISTING MATURE TREES.

DO NOT SCALE - IF IN DOUBT ASK



**NOTES**

- ALL DIMENSIONS IN MILLIMETRES AND ALL LEVELS IN METRES UNLESS SHOWN OTHERWISE.
- SERVICE LOCATIONS EXTRACTED FROM THIRD PARTY UTILITY RECORDS AND SHOWN FOR INFORMATION ONLY; WILL REQUIRE FURTHER VALIDATION BEFORE CONSTRUCTION.
- WHERE UTILITY DEPTH IS NOT KNOWN, A DEPTH HAS BEEN ASSUMED BASED ON HSG47 (THIRD EDITION).
- ONLY SIGNIFICANT UTILITY CROSSINGS SHOWN ON LONG SECTION.
- GROUND LEVEL INFORMATION HAS BEEN TAKEN FROM LIDAR DATA AND ITS ACCURACY HAS NOT BEEN VERIFIED.
- SEWER DEPTHS ARE TAKEN FROM AVAILABLE GIS DATA FROM THAMES WATER. WHERE DEPTH DATA IS NOT AVAILABLE, THESE HAVE BEEN ASSUMED TO BE 2.5m DEPTH TO PIPE CROWN.

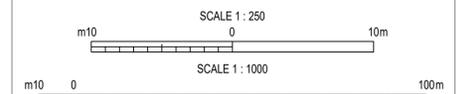
**LEGEND**

- NEW PE100 DN800 SDR17 PIPE
- NEW DN700 DI SELF RESTRAINED PIPE
- FLOW DIRECTION
- AFFINITY WATER MAIN
- GAS MAIN - LOW PRESSURE
- GAS MAIN - MEDIUM PRESSURE
- WASTEWATER SEWER
- WASTEWATER SEWER MANHOLE - UNDERGROUND
- COMMUNICATION / FIBRE DUCTS - UNDERGROUND
- ELECTRICITY - UNDERGROUND
- HIGH VOLTAGE ELECTRICITY - UNDERGROUND
- LOW VOLTAGE ELECTRICITY - UNDERGROUND
- EXTRA HIGH VOLTAGE ELECTRICITY - UNDERGROUND
- EXTRA HIGH VOLTAGE ELECTRICITY - OVERHEAD
- BT CABLE - UNDERGROUND
- BT CABLE - OVERHEAD
- CULVERT

**REFERENCES**

- P023111-24-R072-DR-CDD-3004 PIPELINE PLAN AND PROFILE SHEET 01 OF 17
- P023111-24-R072-DR-CDD-3006 PIPELINE PLAN AND PROFILE SHEET 03 OF 17
- P023111-24-R072-DR-CDD-3021 PIPELINE PLAN AND PROFILE SHEET LAYOUT PLAN

**STANTEC DRAWING NUMBER**  
 331101845/01/C/0005



Rev	Description	Drawn	Check	Approve	Date
P01	FOR INFORMATION ONLY	HAS	LB	DR	25.02.25

"P" Preliminary "T" Tender "C" Construction "R" Record

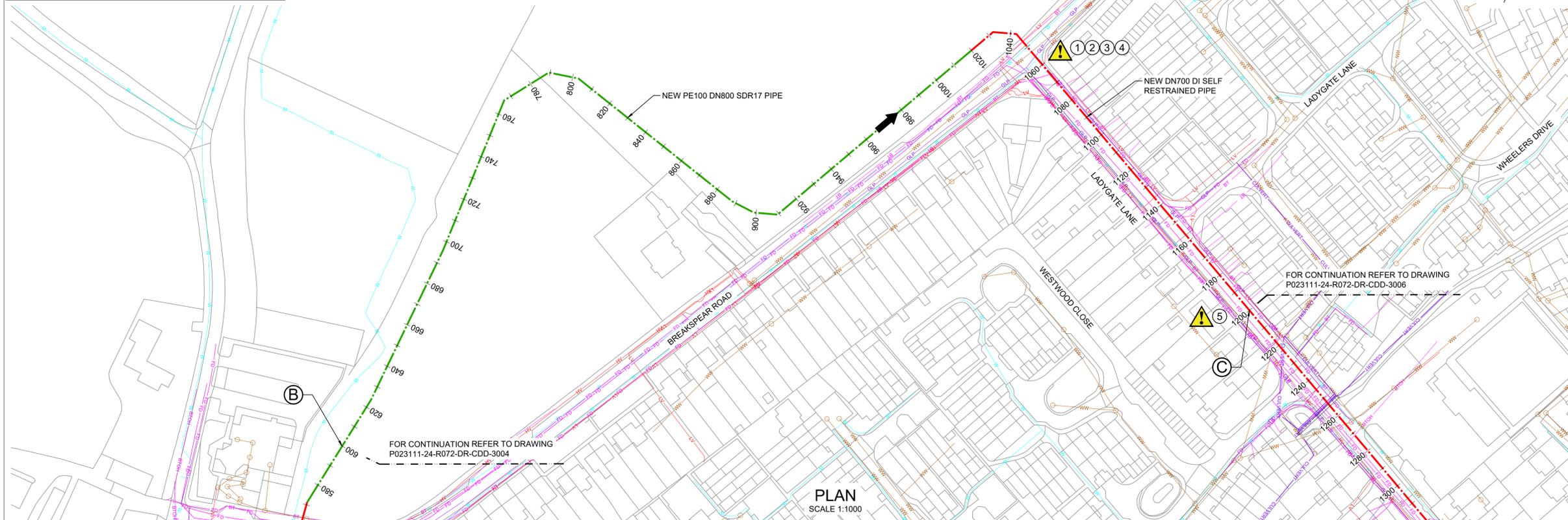


Affinity Water Limited  
 Tamblin Way  
 Hatfield  
 Herts. AL10 9EZ

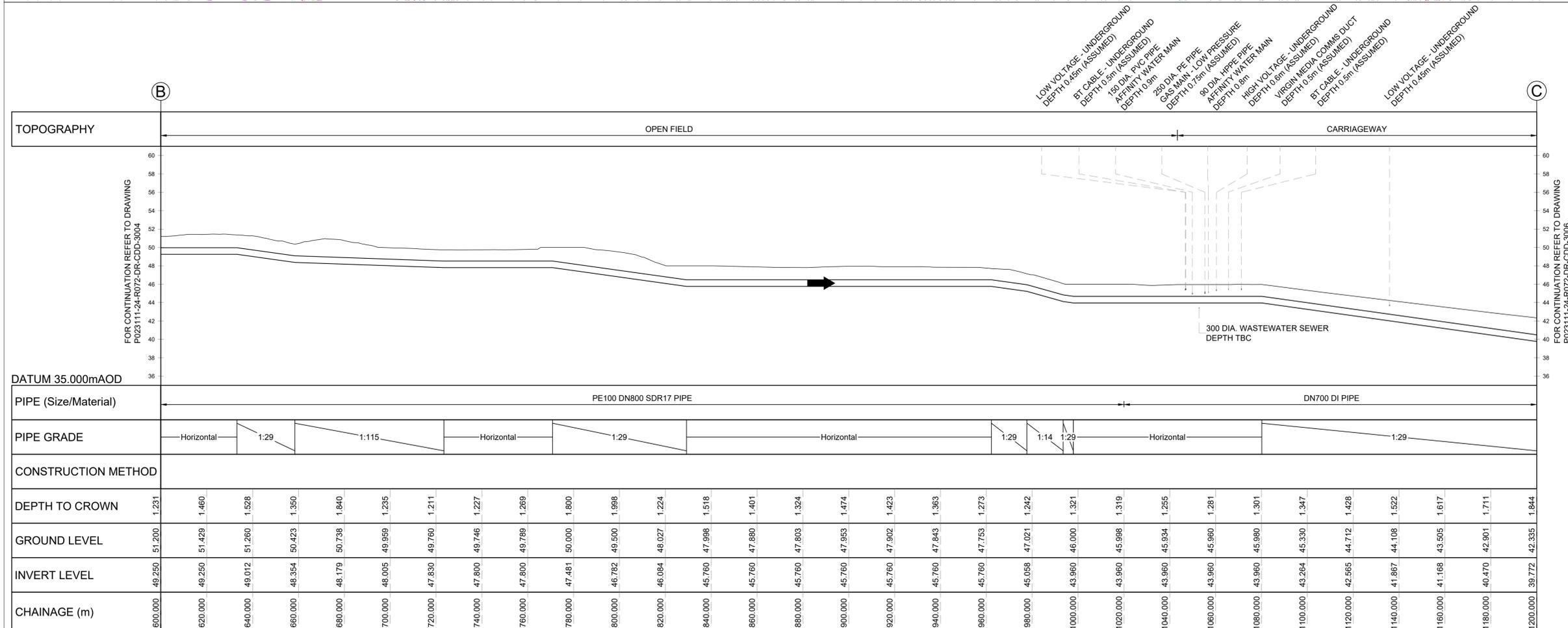
Site: **TRUNK MAIN**  
 Project: **C-04113 ICKENHAM-HARROW TRUNK MAIN**  
 Title: **PIPELINE PLAN AND PROFILE SHEET 02 OF 17**

Job No: TBC	Sheet Size: A1	Scale: AS SHOWN
Drawn: HAS	Checked By: LB	Approved By: DR
Sheet 02 of 17	Dwg Location: TBC	

Drawing No: **P023111-24-R072-DR-CDD-3005** Rev: **P01**



**PLAN**  
 SCALE 1:1000



**PIPELINE PROFILE**  
 (HORIZONTAL SCALE 1:1000, VERTICAL SCALE 1:250)

Based upon Ordnance Survey Digital Data with the permission of the controller of H.M.S.O. Crown Copyright Reserved Licence No. 100025261



**DISCLAIMER:**  
THIS DRAWING INCLUDES INFORMATION EXTRACTED FROM STATUTORY PROVIDER RECORDS, UTILITY RECORDS, CONTRACTORS, ORDINANCE SURVEY MAP DATA AND OTHER 3RD PARTIES. THERE COULD BE ERRORS IN THE DATA RECEIVED OR THE INTERPRETATION OF THE DATA AND IT HAS NOT BEEN VERIFIED. THE CONTRACTOR MUST OBTAIN UP TO DATE RECORDS FROM RELEVANT PROVIDERS WITH THE INFORMATION CONFIRMED ON-SITE BY THE CONTRACTOR PRIOR TO COMMENCING WORK.

SIGNIFICANT HAZARDS AND RISKS	
1	WORKING NEAR TO LIVE WATER MAIN.
2	WORKING NEAR TO LIVE HV ELECTRICITY CABLE.
3	WORKING WITHIN A BUSY MAIN ROAD AND JUNCTION.
4	WORKING NEAR TO WASTEWATER SEWERS AND THEIR ASSOCIATED MANHOLES.
5	WORKING NEAR TO EXISTING MATURE TREES.
6	WORKING NEAR TO BT POLE AND OVERHEAD CABLES.

DO NOT SCALE - IF IN DOUBT ASK

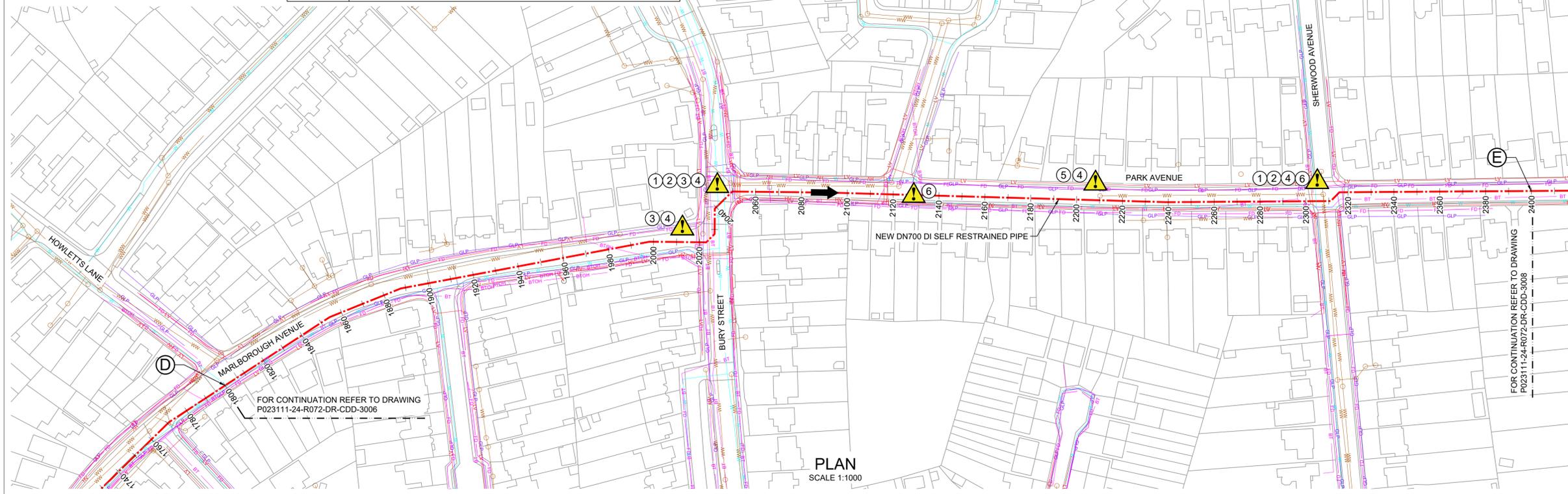


**NOTES**

- ALL DIMENSIONS IN MILLIMETRES AND ALL LEVELS IN METRES UNLESS SHOWN OTHERWISE.
- SERVICE LOCATIONS EXTRACTED FROM THIRD PARTY UTILITY RECORDS AND SHOWN FOR INFORMATION ONLY; WILL REQUIRE FURTHER VALIDATION BEFORE CONSTRUCTION.
- WHERE UTILITY DEPTH IS NOT KNOWN, A DEPTH HAS BEEN ASSUMED BASED ON HSG47 (THIRD EDITION).
- ONLY SIGNIFICANT UTILITY CROSSINGS SHOWN ON LONG SECTION.
- GROUND LEVEL INFORMATION HAS BEEN TAKEN FROM LIDAR DATA AND ITS ACCURACY HAS NOT BEEN VERIFIED.
- SEWER DEPTHS ARE TAKEN FROM AVAILABLE GIS DATA FROM THAMES WATER. WHERE DEPTH DATA IS NOT AVAILABLE, THESE HAVE BEEN ASSUMED TO BE 2.5m DEPTH TO PIPE CROWN.

**LEGEND**

- NEW DN700 DI SELF RESTRAINED PIPE
- FLOW DIRECTION
- AFFINITY WATER MAIN
- GAS MAIN - LOW PRESSURE
- GAS MAIN - MEDIUM PRESSURE
- WASTEWATER SEWER
- WASTEWATER SEWER MANHOLE
- COMMUNICATION / FIBRE DUCTS - UNDERGROUND
- ELECTRICITY - UNDERGROUND
- HIGH VOLTAGE ELECTRICITY - UNDERGROUND
- LOW VOLTAGE ELECTRICITY - UNDERGROUND
- EXTRA HIGH VOLTAGE ELECTRICITY - UNDERGROUND
- EXTRA HIGH VOLTAGE ELECTRICITY - OVERHEAD
- BT CABLE - UNDERGROUND
- BT CABLE - OVERHEAD



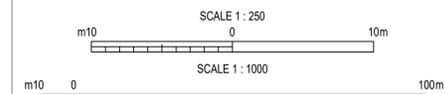
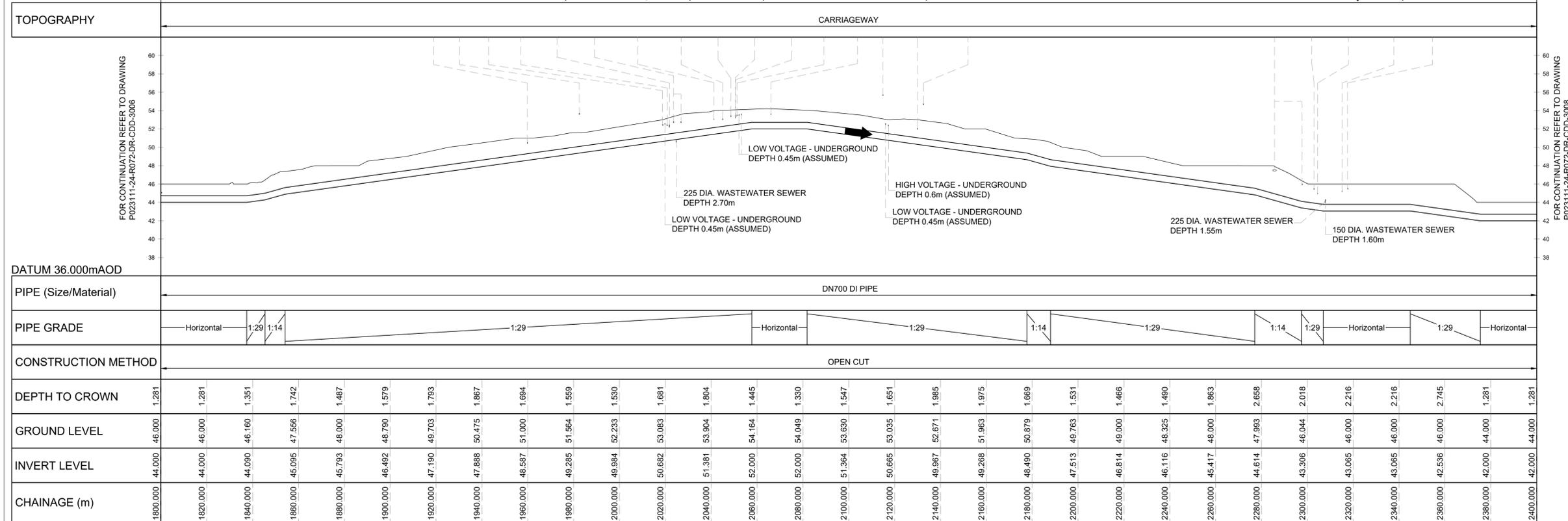
**REFERENCES**

- P023111-24-R072-DR-CDD-3006 PIPELINE PLAN AND PROFILE SHEET 03 OF 17
- P023111-24-R072-DR-CDD-3008 PIPELINE PLAN AND PROFILE SHEET 05 OF 17
- P023111-24-R072-DR-CDD-3021 PIPELINE PLAN AND PROFILE SHEET LAYOUT PLAN

**STANTEC DRAWING NUMBER**

331101845/01/C/0007

LOW VOLTAGE - UNDERGROUND DEPTH 0.45m (ASSUMED)  
 BT CABLE - OVERHEAD  
 VIRGIN MEDIA COMMS DUCT DEPTH 0.5m (ASSUMED)  
 BT CABLE - UNDERGROUND DEPTH 0.9m (ASSUMED)  
 GAS MAIN - LOW PRESSURE DEPTH 0.75m (ASSUMED)  
 BT CABLE - UNDERGROUND DEPTH 0.5m (ASSUMED)  
 3" CI/SI PIPE  
 AFFINITY WATER MAIN DEPTH 0.9m (ASSUMED)  
 6" CI/SI PIPE  
 HIGH VOLTAGE UNDERGROUND DEPTH 0.6m (ASSUMED)  
 GAS MAIN - LOW PRESSURE DEPTH 0.5m (ASSUMED)  
 BT CABLE - UNDERGROUND DEPTH 0.5m (ASSUMED)  
 HIGH VOLTAGE UNDERGROUND DEPTH 0.6m (ASSUMED)  
 VIRGIN MEDIA COMMS DUCT DEPTH 0.5m (ASSUMED)  
 BT CABLE - OVERHEAD  
 6" CI/SI PIPE  
 AFFINITY WATER MAIN DEPTH 0.9m (ASSUMED)  
 BT CABLE - OVERHEAD  
 BT CABLE - UNDERGROUND DEPTH 0.5m (ASSUMED)  
 LOW VOLTAGE UNDERGROUND DEPTH 0.45m (ASSUMED)  
 3" CI/SI PIPE  
 AFFINITY WATER MAIN DEPTH 1.0m  
 4" SI PIPE  
 GAS MAIN - LOW PRESSURE DEPTH 0.75m (ASSUMED)  
 VIRGIN MEDIA COMMS DUCT DEPTH 0.5m (ASSUMED)



Rev	Description	Drawn	Check	Approve	Date
P01	FOR INFORMATION ONLY	HAS	LB	DR	25.02.25



Affinity Water Limited  
 Tamblin Way  
 Hatfield  
 Herts. AL10 9EZ

Site: **TRUNK MAIN**

Project: **C-04113 ICKENHAM-HARROW TRUNK MAIN**

Title: **PIPELINE PLAN AND PROFILE SHEET 04 OF 17**

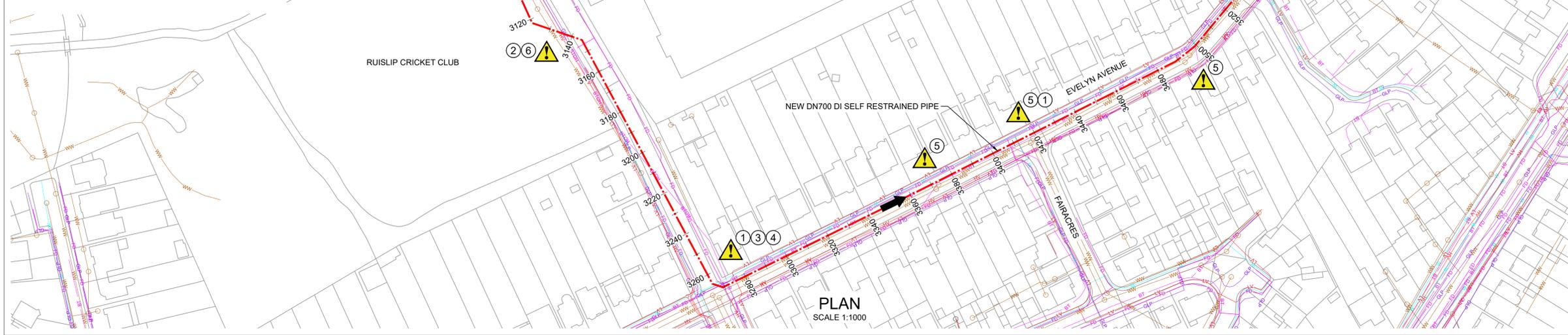
Job No: TBC	Sheet Size: A1	Scale: AS SHOWN
Drawn: HAS	Checked By: LB	Approved By: DR
Sheet 04 of 17	Doc Location: TBC	

Drawing No: **P023111-24-R072-DR-CDD-3007** Rev: **P01**



**DISCLAIMER:**  
 THIS DRAWING INCLUDES INFORMATION EXTRACTED FROM STATUTORY PROVIDER RECORDS, UTILITY RECORDS, CONTRACTORS, ORDINANCE SURVEY MAP DATA AND OTHER 3RD PARTIES. THERE COULD BE ERRORS IN THE DATA RECEIVED OR THE INTERPRETATION OF THE DATA AND IT HAS NOT BEEN VERIFIED. THE CONTRACTOR MUST OBTAIN UP TO DATE RECORDS FROM RELEVANT PROVIDERS WITH THE INFORMATION CONFIRMED ON-SITE BY THE CONTRACTOR PRIOR TO COMMENCING WORK.

SIGNIFICANT HAZARDS AND RISKS	
1	WORKING NEAR TO LIVE WATER MAIN.
2	WORKING NEAR TO LIVE HV ELECTRICITY CABLE.
3	WORKING NEAR TO LIVE GAS MAIN.
4	WORKING WITHIN A BUSY MAIN ROAD AND JUNCTION.
5	WORKING NEAR TO WASTE WATER SEWERS AND ASSOCIATED MANHOLES.
6	WORKING NEAR TO EXISTING MATURE TREES.
7	WORKING WITHIN THE KINGS COLLEGE PLAYING FIELD.
8	WORKING WITHIN THE RIVER PINN.
9	WORKING WITHIN RUISLIP CRICKET CLUB FIELD.



DO NOT SCALE - IF IN DOUBT ASK



- NOTES**
- ALL DIMENSIONS IN MILLIMETRES AND ALL LEVELS IN METRES UNLESS SHOWN OTHERWISE.
  - SERVICE LOCATIONS EXTRACTED FROM THIRD PARTY UTILITY RECORDS AND SHOWN FOR INFORMATION ONLY; WILL REQUIRE FURTHER VALIDATION BEFORE CONSTRUCTION.
  - WHERE UTILITY DEPTH IS NOT KNOWN, A DEPTH HAS BEEN ASSUMED BASED ON HSG47 (THIRD EDITION).
  - ONLY SIGNIFICANT UTILITY CROSSINGS SHOWN ON LONG SECTION.
  - GROUND LEVEL INFORMATION HAS BEEN TAKEN FROM LIDAR DATA AND ITS ACCURACY HAS NOT BEEN VERIFIED.
  - SEWER DEPTHS ARE TAKEN FROM AVAILABLE GIS DATA FROM THAMES WATER. WHERE DEPTH DATA IS NOT AVAILABLE, THESE HAVE BEEN ASSUMED TO BE 2.5m DEPTH TO PIPE CROWN.

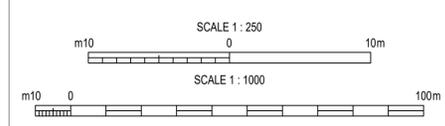
**LEGEND**

	NEW DN700 DI SELF RESTRAINED PIPE
	FLOW DIRECTION
	AFFINITY WATER MAIN
	GAS MAIN - LOW PRESSURE
	GAS MAIN - MEDIUM PRESSURE
	WASTEWATER SEWER
	WASTEWATER SEWER MANHOLE
	COMMUNICATION / FIBRE DUCTS - UNDERGROUND
	ELECTRICITY - UNDERGROUND
	HIGH VOLTAGE ELECTRICITY - UNDERGROUND
	LOW VOLTAGE ELECTRICITY - UNDERGROUND
	EXTRA HIGH VOLTAGE ELECTRICITY - UNDERGROUND
	EXTRA HIGH VOLTAGE ELECTRICITY - OVERHEAD
	BT CABLE - UNDERGROUND
	BT CABLE - OVERHEAD

**REFERENCES**

P023111-24-R072-DR-CDD-3008	PIPELINE PLAN AND PROFILE SHEET 05 OF 17
P023111-24-R072-DR-CDD-3010	PIPELINE PLAN AND PROFILE SHEET 07 OF 17
P023111-24-R072-DR-CDD-3021	PIPELINE PLAN AND PROFILE SHEET LAYOUT PLAN

**STANTEC DRAWING NUMBER**  
 331101845/01/C/0009



Rev	Description	Drawn	Check	Approve	Date
P01	FOR INFORMATION ONLY	HAS	LB	DR	25.02.25

Affinity Water Limited  
 Tomblin Way  
 Hatfield  
 Herts. AL10 9EZ

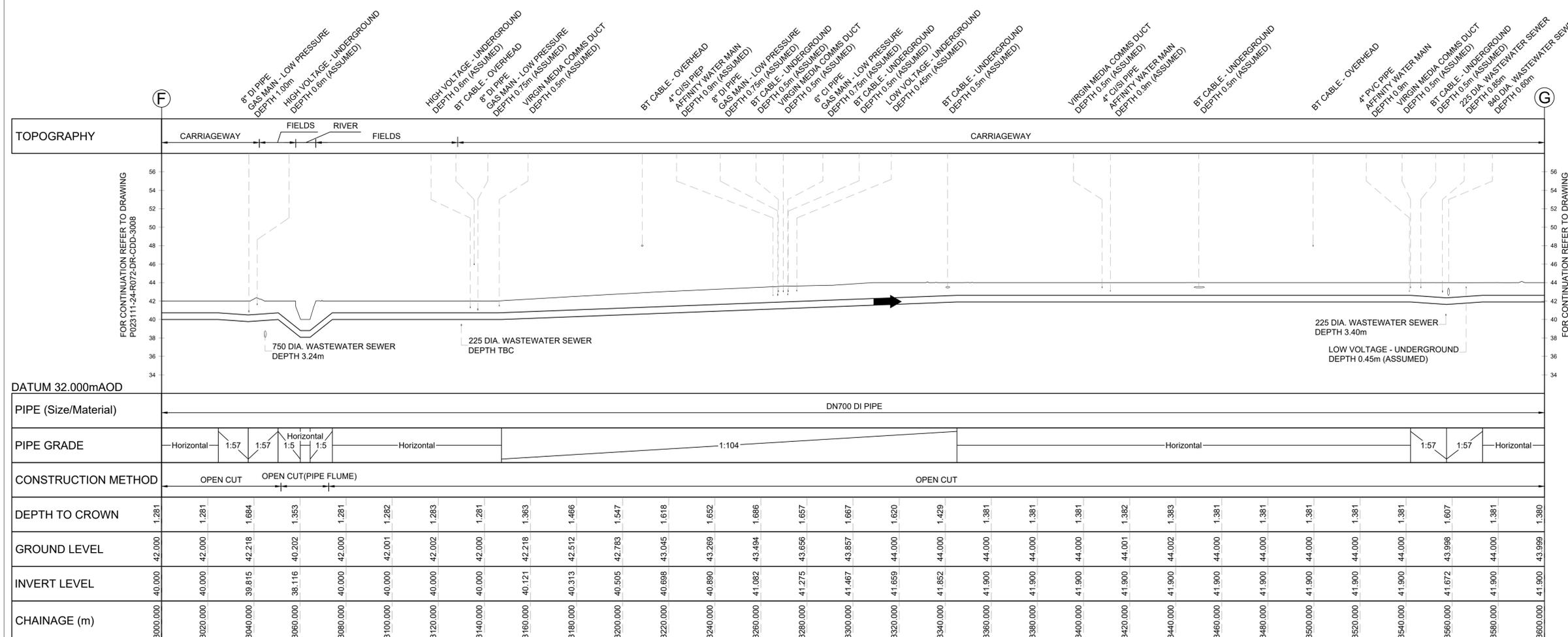
**TRUNK MAIN**

Project: **C-04113 ICKENHAM-HARROW TRUNK MAIN**

Title: **PIPELINE PLAN AND PROFILE SHEET 06 OF 17**

Job No: TBC	Sheet Size: A1	Scale: AS SHOWN
Drawn: HAS	Checked By: LB	Approved By: DR
Sheet 06 of 17	Doc Location: TBC	

Drawing No: **P023111-24-R072-DR-CDD-3009** Rev: **P01**



CHAINAGE (m)	DEPTH TO CROWN	GROUND LEVEL	INVERT LEVEL
3000.000	1.281	42.000	40.000
3020.000	1.281	42.000	40.000
3040.000	1.684	42.218	39.815
3060.000	1.353	40.202	38.116
3080.000	1.281	42.000	40.000
3100.000	1.282	42.001	40.000
3120.000	1.283	42.002	40.000
3140.000	1.281	42.000	40.000
3160.000	1.363	42.218	40.121
3180.000	1.466	42.512	40.313
3200.000	1.547	42.783	40.505
3220.000	1.618	43.045	40.698
3240.000	1.652	43.269	40.890
3260.000	1.686	43.484	41.082
3280.000	1.657	43.656	41.275
3300.000	1.667	43.857	41.467
3320.000	1.620	44.000	41.659
3340.000	1.429	44.000	41.852
3360.000	1.381	44.000	41.900
3380.000	1.381	44.000	41.900
3400.000	1.381	44.000	41.900
3420.000	1.382	44.001	41.900
3440.000	1.383	44.002	41.900
3460.000	1.381	44.000	41.900
3480.000	1.381	44.000	41.900
3500.000	1.381	44.000	41.900
3520.000	1.381	44.000	41.900
3540.000	1.381	44.000	41.900
3560.000	1.607	43.988	41.672
3580.000	1.381	44.000	41.900
3600.000	1.380	43.999	41.900

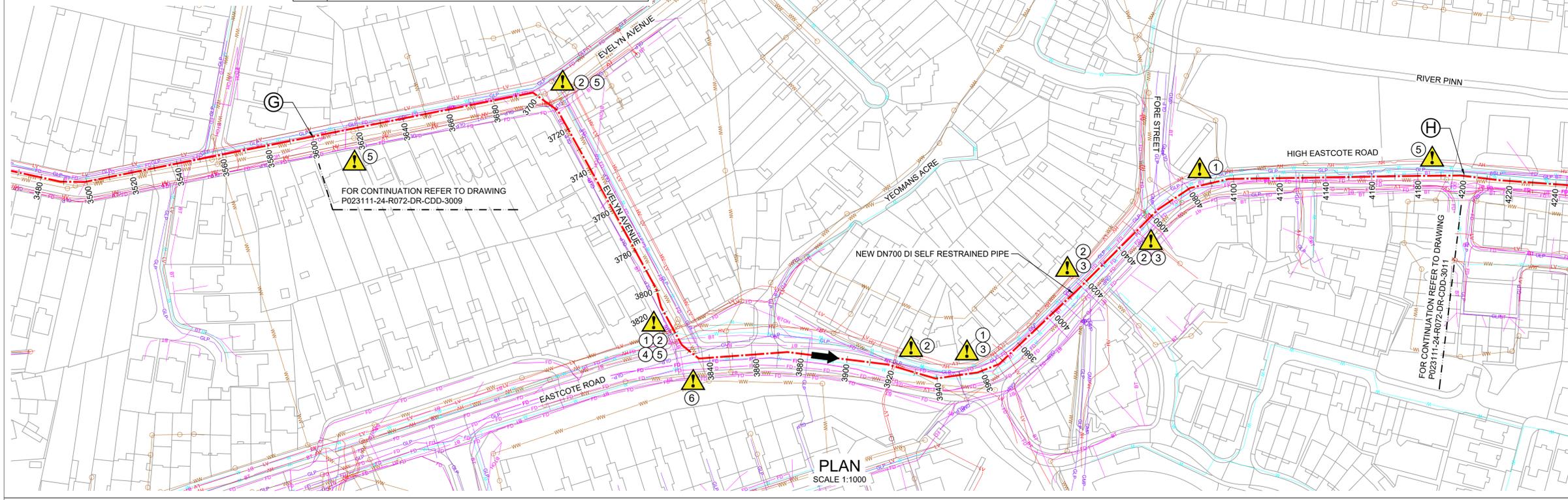
**DISCLAIMER:**  
 THIS DRAWING INCLUDES INFORMATION EXTRACTED FROM STATUTORY PROVIDER RECORDS, UTILITY RECORDS, CONTRACTORS, ORDNANCE SURVEY MAP DATA AND OTHER 3RD PARTIES. THERE COULD BE ERRORS IN THE DATA RECEIVED OR THE INTERPRETATION OF THE DATA AND IT HAS NOT BEEN VERIFIED. THE CONTRACTOR MUST OBTAIN UP TO DATE RECORDS FROM RELEVANT PROVIDERS WITH THE INFORMATION CONFIRMED ON-SITE BY THE CONTRACTOR PRIOR TO COMMENCING WORK.

SIGNIFICANT HAZARDS AND RISKS	
1	WORKING NEAR TO LIVE WATER MAIN.
2	WORKING NEAR TO LIVE LV AND HV ELECTRICITY CABLE.
3	WORKING NEAR TO LIVE GAS MAIN.
4	WORKING WITHIN A BUSY MAIN ROAD AND JUNCTION.
5	WORKING NEAR TO WASTEWATER SEWERS AND ASSOCIATED MANHOLES.
6	WORKING NEAR TO EXISTING MATURE TREES.

DO NOT SCALE - IF IN DOUBT ASK



- NOTES**
- ALL DIMENSIONS IN MILLIMETRES AND ALL LEVELS IN METRES UNLESS SHOWN OTHERWISE.
  - SERVICE LOCATIONS EXTRACTED FROM THIRD PARTY UTILITY RECORDS AND SHOWN FOR INFORMATION ONLY; WILL REQUIRE FURTHER VALIDATION BEFORE CONSTRUCTION.
  - WHERE UTILITY DEPTH IS NOT KNOWN, A DEPTH HAS BEEN ASSUMED BASED ON HSG47 (THIRD EDITION).
  - ONLY SIGNIFICANT UTILITY CROSSINGS SHOWN ON LONG SECTION.
  - GROUND LEVEL INFORMATION HAS BEEN TAKEN FROM LIDAR DATA AND ITS ACCURACY HAS NOT BEEN VERIFIED.
  - SEWER DEPTHS ARE TAKEN FROM AVAILABLE GIS DATA FROM THAMES WATER. WHERE DEPTH DATA IS NOT AVAILABLE, THESE HAVE BEEN ASSUMED TO BE 2.5m DEPTH TO PIPE CROWN.



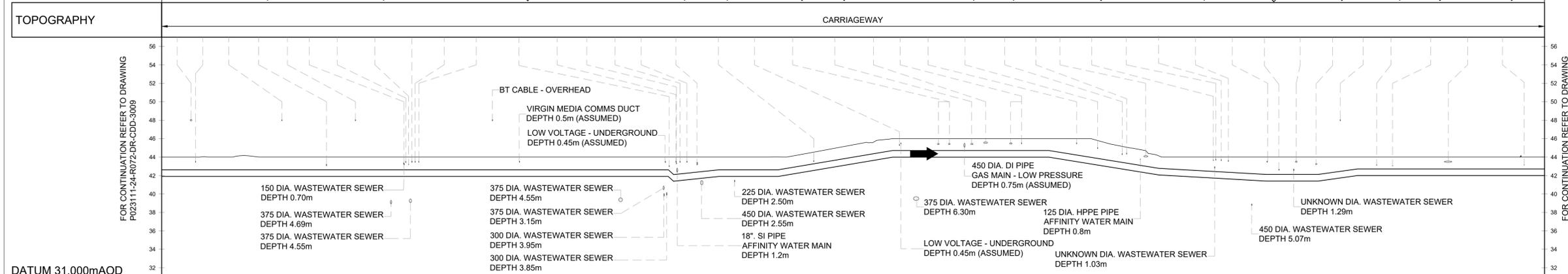
**LEGEND**

- NEW DN700 DI SELF RESTRAINED PIPE
- FLOW DIRECTION
- AFFINITY WATER MAIN
- GAS MAIN - LOW PRESSURE
- GAS MAIN - MEDIUM PRESSURE
- WASTEWATER SEWER
- WASTEWATER SEWER MANHOLE
- COMMUNICATION / FIBRE DUCTS - UNDERGROUND
- ELECTRICITY - UNDERGROUND
- HIGH VOLTAGE ELECTRICITY - UNDERGROUND
- LOW VOLTAGE ELECTRICITY - UNDERGROUND
- EXTRA HIGH VOLTAGE ELECTRICITY - UNDERGROUND
- EXTRA HIGH VOLTAGE ELECTRICITY - OVERHEAD
- BT CABLE - UNDERGROUND
- BT CABLE - OVERHEAD

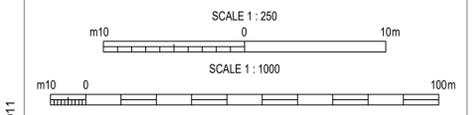
- REFERENCES**
- P023111-24-R072-DR-CDD-3009 PIPELINE PLAN AND PROFILE SHEET 06 OF 17
  - P023111-24-R072-DR-CDD-3011 PIPELINE PLAN AND PROFILE SHEET 08 OF 17
  - P023111-24-R072-DR-CDD-3021 PIPELINE PLAN AND PROFILE SHEET LAYOUT PLAN

**STANTEC DRAWING NUMBER**  
 331101845/01/C/0010

- BT CABLE - OVERHEAD
- VIRGIN MEDIA COMMS DUCT DEPTH 0.5m (ASSUMED)
- 8" SI PIPE
- BT CABLE - OVERHEAD DEPTH 0.5m (ASSUMED)
- GAS MAIN - LOW PRESSURE DEPTH 0.5m (ASSUMED)
- HIGH VOLTAGE - UNDERGROUND DEPTH 0.5m (ASSUMED)
- LOW VOLTAGE - UNDERGROUND DEPTH 0.5m (ASSUMED)
- 90 DIA. PE PIPE DEPTH 0.5m (ASSUMED)
- GAS MAIN - LOW PRESSURE DEPTH 0.5m (ASSUMED)
- BT CABLE - UNDERGROUND DEPTH 0.5m (ASSUMED)
- VIRGIN MEDIA COMMS DUCT DEPTH 0.5m (ASSUMED)
- BT CABLE - UNDERGROUND DEPTH 0.5m (ASSUMED)
- 6" CISI PIPE
- AFFINITY WATER MAIN DEPTH 0.9m (ASSUMED)
- BT CABLE - UNDERGROUND DEPTH 0.9m (ASSUMED)
- HIGH VOLTAGE - UNDERGROUND DEPTH 0.9m (ASSUMED)
- VIRGIN MEDIA COMMS DUCT DEPTH 0.9m (ASSUMED)
- BT CABLE - UNDERGROUND DEPTH 0.9m (ASSUMED)
- 12" CI PIPE
- GAS MAIN - LOW PRESSURE DEPTH 0.9m (ASSUMED)
- 150 DIA. DI PIPE DEPTH 0.9m (ASSUMED)
- GAS MAIN - LOW PRESSURE DEPTH 0.9m (ASSUMED)
- HIGH VOLTAGE - UNDERGROUND DEPTH 0.9m (ASSUMED)
- 4" CISI PIPE
- AFFINITY WATER MAIN DEPTH 0.9m (ASSUMED)
- 6" CISI PIPE
- AFFINITY WATER MAIN DEPTH 0.9m (ASSUMED)
- BT CABLE - UNDERGROUND DEPTH 0.9m (ASSUMED)
- LOW VOLTAGE - UNDERGROUND DEPTH 0.9m (ASSUMED)
- VIRGIN MEDIA COMMS DUCT DEPTH 0.9m (ASSUMED)
- 18" ST PIPE - UNDERGROUND DEPTH 0.9m (ASSUMED)
- GAS MAIN - MEDIUM PRESSURE DEPTH 0.9m (ASSUMED)
- BT CABLE - UNDERGROUND DEPTH 0.9m (ASSUMED)
- 6" CI PIPE
- AFFINITY WATER MAIN DEPTH 0.9m (ASSUMED)
- BT CABLE - UNDERGROUND DEPTH 0.9m (ASSUMED)
- 3" CISI PIPE
- AFFINITY WATER MAIN DEPTH 0.9m (ASSUMED)
- BT CABLE - OVERHEAD
- GAS MAIN - LOW PRESSURE DEPTH 0.9m (ASSUMED)
- AFFINITY WATER MAIN DEPTH 0.9m (ASSUMED)
- 90 DIA. HPPE PIPE DEPTH 0.9m (ASSUMED)
- AFFINITY WATER MAIN DEPTH 0.9m (ASSUMED)



DATUM 31.000m AOD	
PIPE (Size/Material)	DN700 DI PIPE
PIPE GRADE	Horizontal
CONSTRUCTION METHOD	OPEN CUT
DEPTH TO CROWN	1.380
GROUND LEVEL	43.999
INVERT LEVEL	41.900
CHAINAGE (m)	3600.000



Rev	Description	Drawn	Check	Approve	Date
P01	FOR INFORMATION ONLY	HAS	LB	DR	25.02.25

"P" Preliminary "T" Tender "C" Construction "R" Record

Affinity Water Limited  
 Tomblin Way  
 Hatfield  
 Herts. AL10 9EZ

Site: **TRUNK MAIN**

Project: **C-04113 ICKENHAM-HARROW TRUNK MAIN**

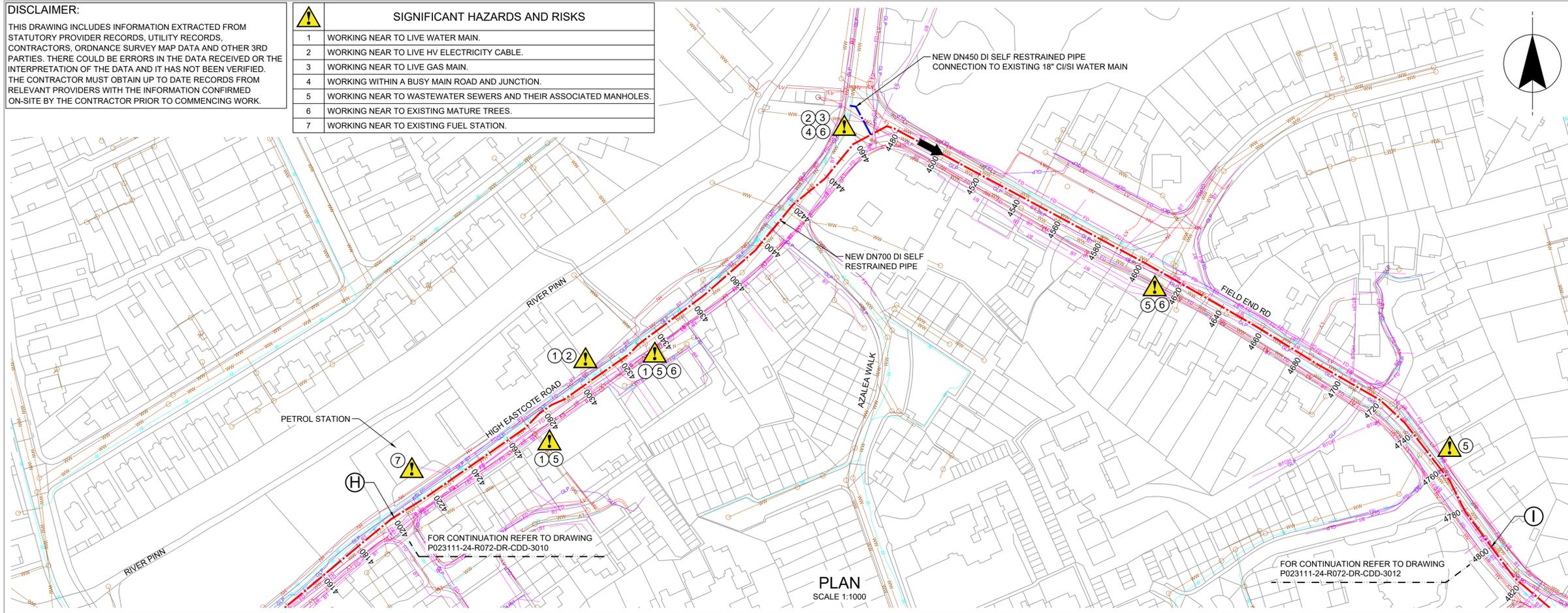
Title: **PIPELINE PLAN AND PROFILE SHEET 07 OF 17**

Job No: TBC	Sheet Size: A1	Scale: AS SHOWN
Drawn: HAS	Checked By: LB	Approved By: DR
Sheet 07 of 17	Doc Location: TBC	

Drawing No: **P023111-24-R072-DR-CDD-3010** Rev: **P01**

**DISCLAIMER:**  
 THIS DRAWING INCLUDES INFORMATION EXTRACTED FROM STATUTORY PROVIDER RECORDS, UTILITY RECORDS, CONTRACTORS, ORDNANCE SURVEY MAP DATA AND OTHER 3RD PARTIES. THERE COULD BE ERRORS IN THE DATA RECEIVED OR THE INTERPRETATION OF THE DATA AND IT HAS NOT BEEN VERIFIED. THE CONTRACTOR MUST OBTAIN UP TO DATE RECORDS FROM RELEVANT PROVIDERS WITH THE INFORMATION CONFIRMED ON-SITE BY THE CONTRACTOR PRIOR TO COMMENCING WORK.

SIGNIFICANT HAZARDS AND RISKS	
1	WORKING NEAR TO LIVE WATER MAIN.
2	WORKING NEAR TO LIVE HV ELECTRICITY CABLE.
3	WORKING NEAR TO LIVE GAS MAIN.
4	WORKING WITHIN A BUSY MAIN ROAD AND JUNCTION.
5	WORKING NEAR TO WASTEWATER SEWERS AND THEIR ASSOCIATED MANHOLES.
6	WORKING NEAR TO EXISTING MATURE TREES.
7	WORKING NEAR TO EXISTING FUEL STATION.



DO NOT SCALE - IF IN DOUBT ASK

**NOTES**

- ALL DIMENSIONS IN MILLIMETRES AND ALL LEVELS IN METRES UNLESS SHOWN OTHERWISE.
- SERVICE LOCATIONS EXTRACTED FROM THIRD PARTY UTILITY RECORDS AND SHOWN FOR INFORMATION ONLY; WILL REQUIRE FURTHER VALIDATION BEFORE CONSTRUCTION.
- WHERE UTILITY DEPTH IS NOT KNOWN, A DEPTH HAS BEEN ASSUMED BASED ON HSG47 (THIRD EDITION).
- ONLY SIGNIFICANT UTILITY CROSSINGS SHOWN ON LONG SECTION.
- GROUND LEVEL INFORMATION HAS BEEN TAKEN FROM LIDAR DATA AND ITS ACCURACY HAS NOT BEEN VERIFIED.
- SEWER DEPTHS ARE TAKEN FROM AVAILABLE GIS DATA FROM THAMES WATER. WHERE DEPTH DATA IS NOT AVAILABLE, THESE HAVE BEEN ASSUMED TO BE 2.5m DEPTH TO PIPE CROWN.

**LEGEND**

- NEW DN700 DI SELF RESTRAINED PIPE
- NEW DN450 DI SELF RESTRAINED PIPE
- FLOW DIRECTION
- AFFINITY WATER MAIN
- GAS MAIN - LOW PRESSURE
- GAS MAIN - MEDIUM PRESSURE
- WASTEWATER SEWER
- WASTEWATER SEWER MANHOLE
- COMMUNICATION / FIBRE DUCTS - UNDERGROUND
- ELECTRICITY - UNDERGROUND
- HIGH VOLTAGE ELECTRICITY - UNDERGROUND
- LOW VOLTAGE ELECTRICITY - UNDERGROUND
- EXTRA HIGH VOLTAGE ELECTRICITY - UNDERGROUND
- EXTRA HIGH VOLTAGE ELECTRICITY - OVERHEAD
- BT CABLE - UNDERGROUND
- BT CABLE - OVERHEAD

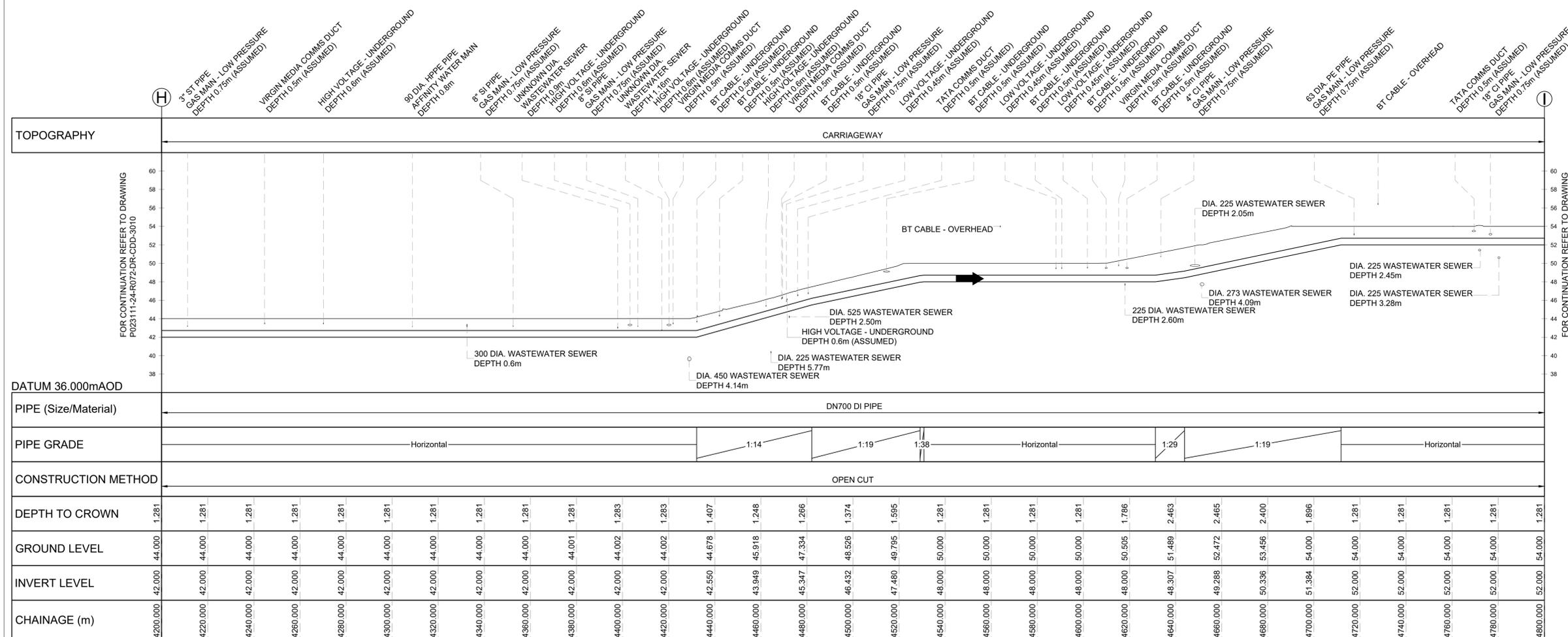
**REFERENCES**

- P023111-24-R072-DR-CDD-3010 PIPELINE PLAN AND PROFILE SHEET 07 OF 17
- P023111-24-R072-DR-CDD-3012 PIPELINE PLAN AND PROFILE SHEET 09 OF 17
- P023111-24-R072-DR-CDD-3021 PIPELINE PLAN AND PROFILE SHEET LAYOUT PLAN

**STANTEC DRAWING NUMBER**  
331101845/01/C/0011

SCALE 1:250

SCALE 1:1000



**AffinityWater**

Affinity Water Limited  
 Tamblin Way  
 Hatfield  
 Herts. AL10 9EZ

Site: **TRUNK MAIN**

Project: **C-04113 ICKENHAM-HARROW TRUNK MAIN**

Title: **PIPELINE PLAN AND PROFILE SHEET 08 OF 17**

Rev	Description	Drawn	Check	Approve	Date
P01	FOR INFORMATION ONLY	HAS	LB	DR	25.02.25

Job No: TBC | Sheet Size: A1 | Scale: AS SHOWN  
 Drawn: HAS | Checked By: LB | Approved By: DR  
 Sheet 08 of 17 | Dos Location: TBC

Drawing No: **P023111-24-R072-DR-CDD-3011** | Rev: **P01**

**DISCLAIMER:**  
THIS DRAWING INCLUDES INFORMATION EXTRACTED FROM STATUTORY PROVIDER RECORDS, UTILITY RECORDS, CONTRACTORS, ORDNANCE SURVEY MAP DATA AND OTHER 3RD PARTIES. THERE COULD BE ERRORS IN THE DATA RECEIVED OR THE INTERPRETATION OF THE DATA AND IT HAS NOT BEEN VERIFIED. THE CONTRACTOR MUST OBTAIN UP TO DATE RECORDS FROM RELEVANT PROVIDERS WITH THE INFORMATION CONFIRMED ON-SITE BY THE CONTRACTOR PRIOR TO COMMENCING WORK.

SIGNIFICANT HAZARDS AND RISKS	
1	WORKING NEAR TO LIVE WATER MAIN.
2	WORKING NEAR TO LIVE HV ELECTRICITY CABLE.
3	WORKING NEAR TO LIVE GAS MAIN.
4	WORKING WITHIN A BUSY MAIN ROAD AND JUNCTION.
5	WORKING NEAR TO WASTEWATER SEWERS AND THEIR ASSOCIATED MANHOLES.
6	WORKING NEAR TO EXISTING MATURE TREES.

DO NOT SCALE - IF IN DOUBT ASK



**NOTES**

- ALL DIMENSIONS IN MILLIMETRES AND ALL LEVELS IN METRES UNLESS SHOWN OTHERWISE.
- SERVICE LOCATIONS EXTRACTED FROM THIRD PARTY UTILITY RECORDS AND SHOWN FOR INFORMATION ONLY; WILL REQUIRE FURTHER VALIDATION BEFORE CONSTRUCTION.
- WHERE UTILITY DEPTH IS NOT KNOWN, A DEPTH HAS BEEN ASSUMED BASED ON HSG47 (THIRD EDITION).
- ONLY SIGNIFICANT UTILITY CROSSINGS SHOWN ON LONG SECTION.
- GROUND LEVEL INFORMATION HAS BEEN TAKEN FROM LIDAR DATA AND ITS ACCURACY HAS NOT BEEN VERIFIED.
- SEWER DEPTHS ARE TAKEN FROM AVAILABLE GIS DATA FROM THAMES WATER. WHERE DEPTH DATA IS NOT AVAILABLE, THESE HAVE BEEN ASSUMED TO BE 2.5m DEPTH TO PIPE CROWN.

**LEGEND**

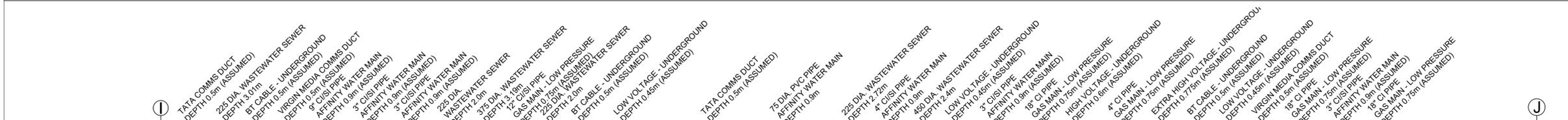
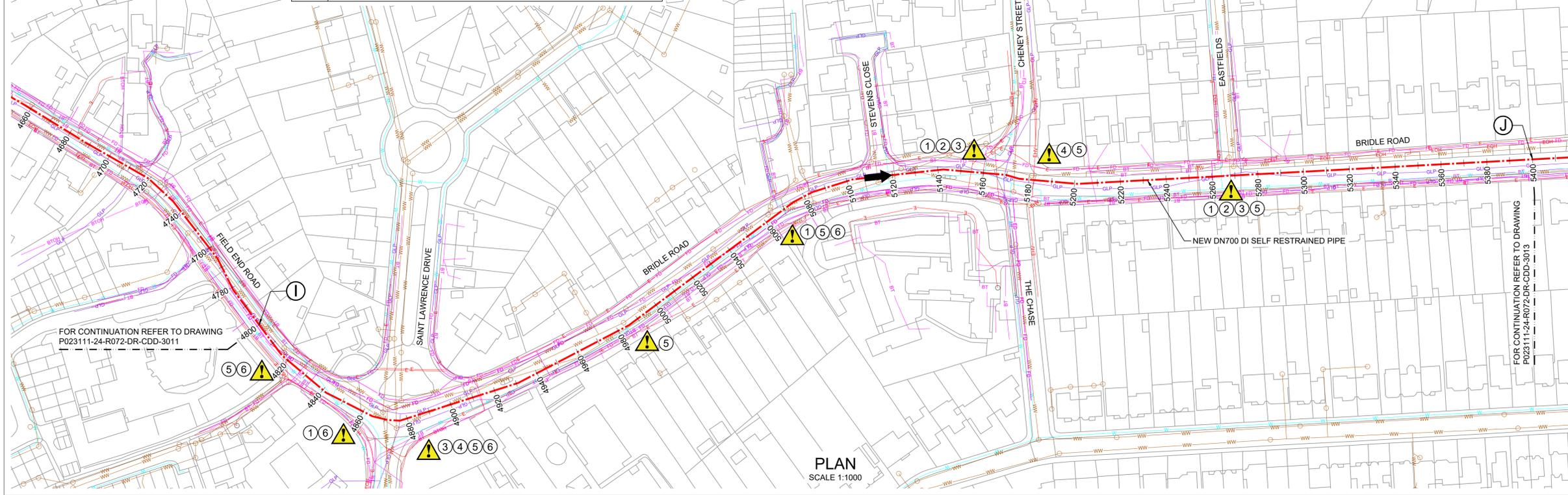
- NEW DN700 DI SELF RESTRAINED PIPE
- FLOW DIRECTION
- AFFINITY WATER MAIN
- GAS MAIN - LOW PRESSURE
- GAS MAIN - MEDIUM PRESSURE
- WASTEWATER SEWER
- WASTEWATER SEWER MANHOLE
- COMMUNICATION / FIBRE DUCTS - UNDERGROUND
- ELECTRICITY - UNDERGROUND
- HIGH VOLTAGE ELECTRICITY - UNDERGROUND
- LOW VOLTAGE ELECTRICITY - UNDERGROUND
- EXTRA HIGH VOLTAGE ELECTRICITY - UNDERGROUND
- EXTRA HIGH VOLTAGE ELECTRICITY - OVERHEAD
- BT CABLE - UNDERGROUND
- BT CABLE - OVERHEAD

**REFERENCES**

- P023111-24-R072-DR-CDD-3011 PIPELINE PLAN AND PROFILE SHEET 08 OF 17
- P023111-24-R072-DR-CDD-3013 PIPELINE PLAN AND PROFILE SHEET 10 OF 17
- P023111-24-R072-DR-CDD-3021 PIPELINE PLAN AND PROFILE SHEET LAYOUT PLAN

**STANTEC DRAWING NUMBER**

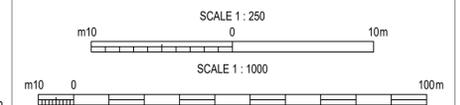
331101845/01/C/0012



CHAINAGE (m)	DEPTH TO CROWN	GROUND LEVEL	INVERT LEVEL
4800.000	1.286	54.005	52.000
4820.000	1.281	54.000	52.000
4840.000	1.282	54.001	52.000
4860.000	1.198	54.259	52.341
4880.000	1.043	55.079	53.316
4900.000	1.125	55.533	53.690
4920.000	1.188	55.946	54.039
4940.000	1.073	55.973	54.182
4960.000	1.102	55.953	54.132
4980.000	1.267	55.987	54.001
5000.000	1.279	55.999	54.001
5020.000	1.280	56.000	54.001
5040.000	1.280	56.000	54.001
5060.000	1.280	56.000	54.001
5080.000	1.280	56.000	54.001
5100.000	1.280	56.000	54.001
5120.000	1.113	56.000	54.168
5140.000	1.431	57.000	54.850
5160.000	1.431	57.000	54.850
5180.000	1.431	57.000	54.850
5200.000	1.431	57.000	54.850
5220.000	1.512	57.081	54.850
5240.000	1.790	56.978	54.469
5260.000	1.381	56.000	53.900
5280.000	1.381	56.000	53.900
5300.000	1.239	56.207	54.249
5320.000	1.372	56.864	54.773
5340.000	1.409	57.425	55.297
5360.000	1.457	57.996	55.820
5380.000	1.230	58.000	56.051
5400.000	1.230	58.000	56.051

**PIPELINE PROFILE**  
(HORIZONTAL SCALE 1:1000, VERTICAL SCALE 1:250)

Based upon Ordnance Survey Digital Data with the permission of the controller of H.M.S.O. Crown Copyright Reserved Licence No. 100025261



Rev	Description	Drawn	Check	Approve	Date
P01	FOR INFORMATION ONLY	HAS	LB	DR	25.02.25

"P" Preliminary "T" Tender "C" Construction "R" Record

Affinity Water Limited  
Tomblin Way  
Hatfield  
Herts. AL10 9EZ

Site: **TRUNK MAIN**

Project: **C-04113 ICKENHAM-HARROW TRUNK MAIN**

Title: **PIPELINE PLAN AND PROFILE SHEET 09 OF 17**

Job No: TBC	Sheet Size: A1	Scale: AS SHOWN
Drawn: HAS	Checked By: LB	Approved By: DR
Sheet 09 of 17	Doc Location: TBC	

Drawing No: **P023111-24-R072-DR-CDD-3012** Rev: **P01**

**DISCLAIMER:**  
 THIS DRAWING INCLUDES INFORMATION EXTRACTED FROM STATUTORY PROVIDER RECORDS, UTILITY RECORDS, CONTRACTORS, ORDNANCE SURVEY MAP DATA AND OTHER 3RD PARTIES. THERE COULD BE ERRORS IN THE DATA RECEIVED OR THE INTERPRETATION OF THE DATA AND IT HAS NOT BEEN VERIFIED. THE CONTRACTOR MUST OBTAIN UP TO DATE RECORDS FROM RELEVANT PROVIDERS WITH THE INFORMATION CONFIRMED ON-SITE BY THE CONTRACTOR PRIOR TO COMMENCING WORK.

SIGNIFICANT HAZARDS AND RISKS	
1	WORKING NEAR TO LIVE WATER MAIN.
2	WORKING NEAR TO LIVE LV AND HV ELECTRICITY CABLE.
3	WORKING NEAR TO LIVE GAS MAIN.
4	WORKING WITHIN A BUSY MAIN ROAD AND JUNCTION.
5	WORKING NEAR TO WASTEWATER SEWERS AND THEIR ASSOCIATED MANHOLES.
6	WORKING NEAR TO EXISTING MATURE TREES.

DO NOT SCALE - IF IN DOUBT ASK

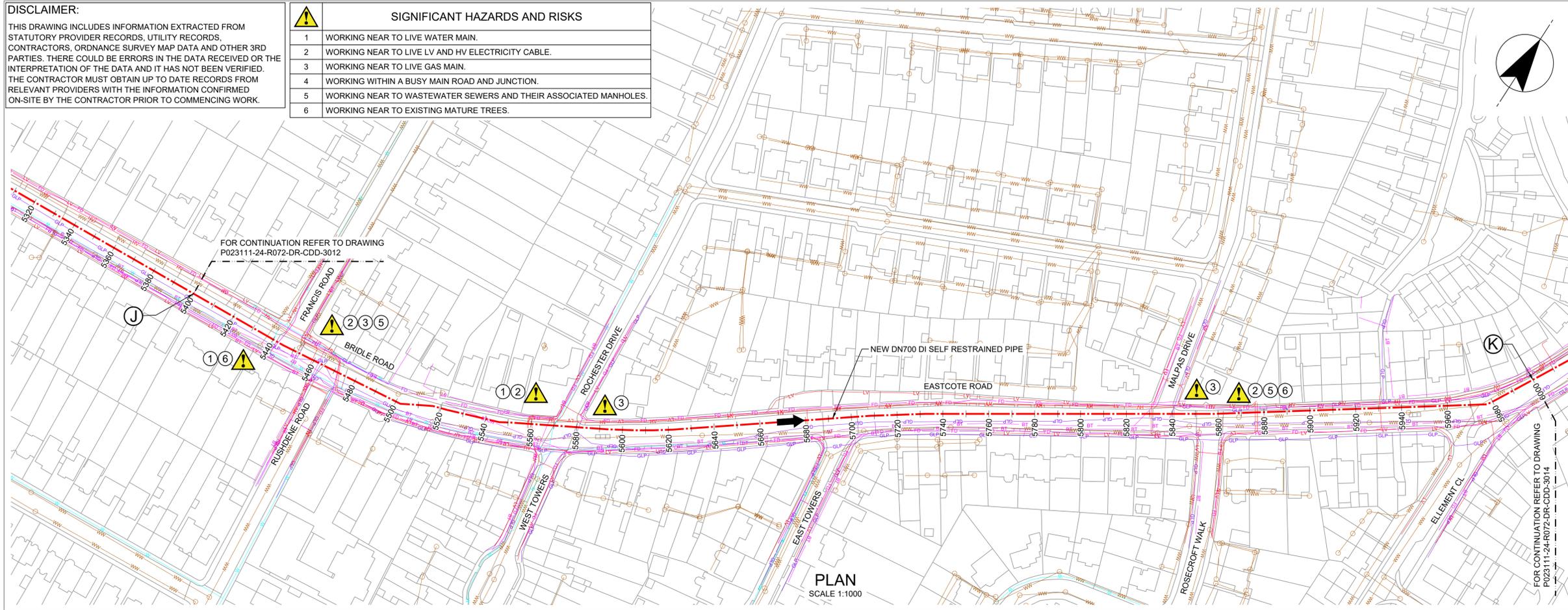


**NOTES**

- ALL DIMENSIONS IN MILLIMETRES AND ALL LEVELS IN METRES UNLESS SHOWN OTHERWISE.
- SERVICE LOCATIONS EXTRACTED FROM THIRD PARTY UTILITY RECORDS AND SHOWN FOR INFORMATION ONLY; WILL REQUIRE FURTHER VALIDATION BEFORE CONSTRUCTION.
- WHERE UTILITY DEPTH IS NOT KNOWN, A DEPTH HAS BEEN ASSUMED BASED ON HSG47 (THIRD EDITION).
- ONLY SIGNIFICANT UTILITY CROSSINGS SHOWN ON LONG SECTION.
- GROUND LEVEL INFORMATION HAS BEEN TAKEN FROM LIDAR DATA AND ITS ACCURACY HAS NOT BEEN VERIFIED.
- SEWER DEPTHS ARE TAKEN FROM AVAILABLE GIS DATA FROM THAMES WATER. WHERE DEPTH DATA IS NOT AVAILABLE, THESE HAVE BEEN ASSUMED TO BE 2.5m DEPTH TO PIPE CROWN.

**LEGEND**

- NEW DN700 DI SELF RESTRAINED PIPE
- FLOW DIRECTION
- AFFINITY WATER MAIN
- GAS MAIN - LOW PRESSURE
- GAS MAIN - MEDIUM PRESSURE
- WASTEWATER SEWER
- WASTEWATER SEWER MANHOLE
- COMMUNICATION / FIBRE DUCTS - UNDERGROUND
- ELECTRICITY - UNDERGROUND
- HIGH VOLTAGE ELECTRICITY - UNDERGROUND
- LOW VOLTAGE ELECTRICITY - UNDERGROUND
- EXTRA HIGH VOLTAGE ELECTRICITY - UNDERGROUND
- EXTRA HIGH VOLTAGE ELECTRICITY - OVERHEAD
- BT CABLE - UNDERGROUND
- BT CABLE - OVERHEAD

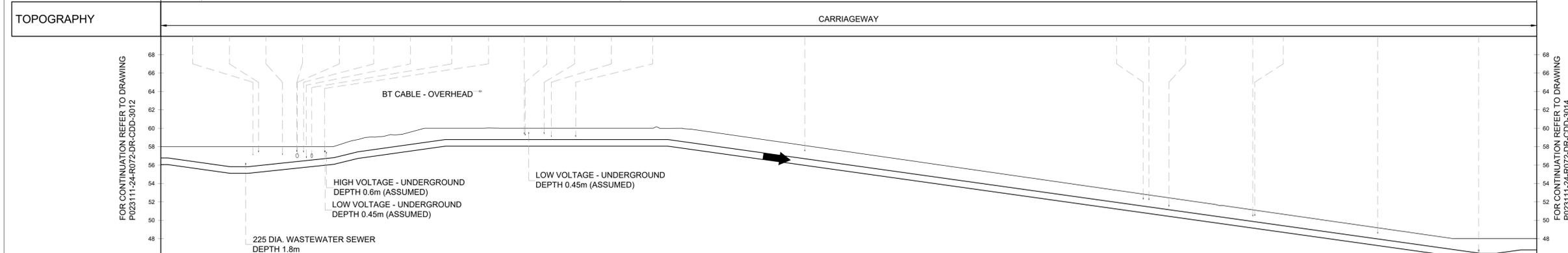


- 90 DIA. HPPE PIPE
- AFFINITY WATER MAIN DEPTH 0.8m
- VRIGN MEDIA COMMS DUCT # C PIPE DEPTH 0.75m (ASSUMED)
- GAS MAIN - LOW PRESSURE DEPTH 0.45m (ASSUMED)
- LOW VOLTAGE - UNDERGROUND 18" CI PIPE DEPTH 0.5m (ASSUMED)
- GAS MAIN - LOW PRESSURE DEPTH 0.5m (ASSUMED)
- BT CABLE - UNDERGROUND # C PIPE DEPTH 0.75m (ASSUMED)
- GAS MAIN - LOW PRESSURE DEPTH 0.75m (ASSUMED)
- VRIGN MEDIA COMMS DUCT DEPTH 0.5m (ASSUMED)
- LOW VOLTAGE - UNDERGROUND 12" DIA. HPPE PIPE DEPTH 0.6m (ASSUMED)
- HIGH VOLTAGE - UNDERGROUND BT CABLE - UNDERGROUND DEPTH 0.5m (ASSUMED)
- AFFINITY WATER PIPE 12" DIA. HPPE PIPE DEPTH 0.8m
- # C PIPE DEPTH 0.75m (ASSUMED)
- GAS MAIN - LOW PRESSURE DEPTH 0.75m (ASSUMED)
- LOW VOLTAGE - UNDERGROUND DEPTH 0.45m (ASSUMED)
- BT CABLE - UNDERGROUND DEPTH 0.5m (ASSUMED)
- LOW VOLTAGE - UNDERGROUND 4" CI PIPE DEPTH 0.45m (ASSUMED)
- GAS MAIN - LOW PRESSURE DEPTH 0.75m (ASSUMED)
- HIGH VOLTAGE - UNDERGROUND DEPTH 0.6m (ASSUMED)
- LOW VOLTAGE - UNDERGROUND DEPTH 0.45m (ASSUMED)
- 225 DIA. WASTEWATER SEWER DEPTH 1.2m

**REFERENCES**

- P023111-24-R072-DR-CDD-3012 PIPELINE PLAN AND PROFILE SHEET 09 OF 17
- P023111-24-R072-DR-CDD-3014 PIPELINE PLAN AND PROFILE SHEET 11 OF 17
- P023111-24-R072-DR-CDD-3021 PIPELINE PLAN AND PROFILE SHEET LAYOUT PLAN

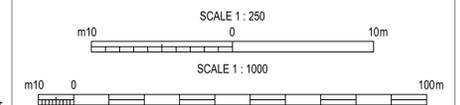
**STANTEC DRAWING NUMBER**  
 331101845/01/C/0013



DATUM 44.000m AOD	
PIPE (Size/Material)	DN700 DI PIPE
PIPE GRADE	Horizontal 1:29, Horizontal 1:38, 1:16, 1:29, Horizontal, 1:29, Horizontal/Horizontal
CONSTRUCTION METHOD	OPEN CUT
DEPTH TO CROWN	1.230, 1.622, 2.129, 1.605, 1.313, 1.369, 1.372, 1.230, 1.230, 1.230, 1.221, 1.475, 1.457, 1.439, 1.421, 1.403, 1.385, 1.367, 1.349, 1.331, 1.313, 1.295, 1.277, 1.259, 1.241, 1.223, 1.206, 1.186, 1.601, 1.230
GROUND LEVEL	58.000, 58.000, 58.000, 58.000, 58.988, 59.299, 60.000, 60.000, 60.000, 60.000, 59.991, 59.586, 58.870, 57.437, 56.721, 56.004, 55.288, 54.571, 53.855, 53.138, 52.422, 51.706, 50.990, 50.273, 49.557, 48.841, 48.122, 47.406, 46.690, 45.974
INVERT LEVEL	56.051, 56.458, 56.152, 56.676, 56.356, 57.208, 57.909, 58.051, 58.051, 58.051, 58.051, 57.392, 56.693, 55.995, 55.297, 54.598, 53.900, 53.201, 52.503, 51.805, 51.106, 50.408, 49.709, 49.011, 48.312, 47.614, 46.916, 46.217, 45.520, 44.822
CHAINAGE (m)	5400.000, 5420.000, 5440.000, 5460.000, 5480.000, 5500.000, 5520.000, 5540.000, 5560.000, 5580.000, 5600.000, 5620.000, 5640.000, 5660.000, 5680.000, 5700.000, 5720.000, 5740.000, 5760.000, 5780.000, 5800.000, 5820.000, 5840.000, 5860.000, 5880.000, 5900.000, 5920.000, 5940.000, 5960.000, 5980.000, 6000.000

**PIPELINE PROFILE**  
 (HORIZONTAL SCALE 1:1000, VERTICAL SCALE 1:250)

Based upon Ordnance Survey Digital Data with the permission of the controller of H.M.S.O. Crown Copyright Reserved Licence No. 100025261



Rev	Description	Drawn	Check	Approve	Date
P01	FOR INFORMATION ONLY	ARM	LB	DR	25.02.25

**AffinityWater**

Affinity Water Limited  
 Tomblin Way  
 Hatfield  
 Herts. AL10 9EZ

AFFINITY WATER

Site: **TRUNK MAIN**

Project: **C-04113 ICKENHAM-HARROW TRUNK MAIN**

Title: **PIPELINE PLAN AND PROFILE SHEET 10 OF 17**

Job No: TBC	Sheet Size: A1	Scale: AS SHOWN
Drawn: ARM	Checked By: LB	Approved By: DR
Sheet 10 of 17	Doc Location: TBC	

Drawing No: **P023111-24-R072-DR-CDD-3013** P01

**DISCLAIMER:**  
THIS DRAWING INCLUDES INFORMATION EXTRACTED FROM STATUTORY PROVIDER RECORDS, UTILITY RECORDS, CONTRACTORS, ORDNANCE SURVEY MAP DATA AND OTHER 3RD PARTIES. THERE COULD BE ERRORS IN THE DATA RECEIVED OR THE INTERPRETATION OF THE DATA AND IT HAS NOT BEEN VERIFIED. THE CONTRACTOR MUST OBTAIN UP TO DATE RECORDS FROM RELEVANT PROVIDERS WITH THE INFORMATION CONFIRMED ON-SITE BY THE CONTRACTOR PRIOR TO COMMENCING WORK.

SIGNIFICANT HAZARDS AND RISKS	
1	WORKING NEAR TO LIVE WATER MAIN.
2	WORKING NEAR TO LIVE LV AND HV ELECTRICITY CABLE.
3	WORKING NEAR TO LIVE GAS MAIN.
4	WORKING WITHIN A BUSY MAIN ROAD AND JUNCTION.
5	WORKING NEAR TO WASTEWATER SEWERS AND THEIR ASSOCIATED MANHOLES.
6	WORKING NEAR TO LOCAL SHOP PARADE.

DO NOT SCALE - IF IN DOUBT ASK



**NOTES**

- ALL DIMENSIONS IN MILLIMETRES AND ALL LEVELS IN METRES UNLESS SHOWN OTHERWISE.
- SERVICE LOCATIONS EXTRACTED FROM THIRD PARTY UTILITY RECORDS AND SHOWN FOR INFORMATION ONLY; WILL REQUIRE FURTHER VALIDATION BEFORE CONSTRUCTION.
- WHERE UTILITY DEPTH IS NOT KNOWN, A DEPTH HAS BEEN ASSUMED BASED ON HSG47 (THIRD EDITION).
- ONLY SIGNIFICANT UTILITY CROSSINGS SHOWN ON LONG SECTION.
- GROUND LEVEL INFORMATION HAS BEEN TAKEN FROM LIDAR DATA AND ITS ACCURACY HAS NOT BEEN VERIFIED.
- SEWER DEPTHS ARE TAKEN FROM AVAILABLE GIS DATA FROM THAMES WATER. WHERE DEPTH DATA IS NOT AVAILABLE, THESE HAVE BEEN ASSUMED TO BE 2.5m DEPTH TO PIPE CROWN.

**LEGEND**

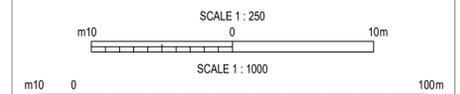
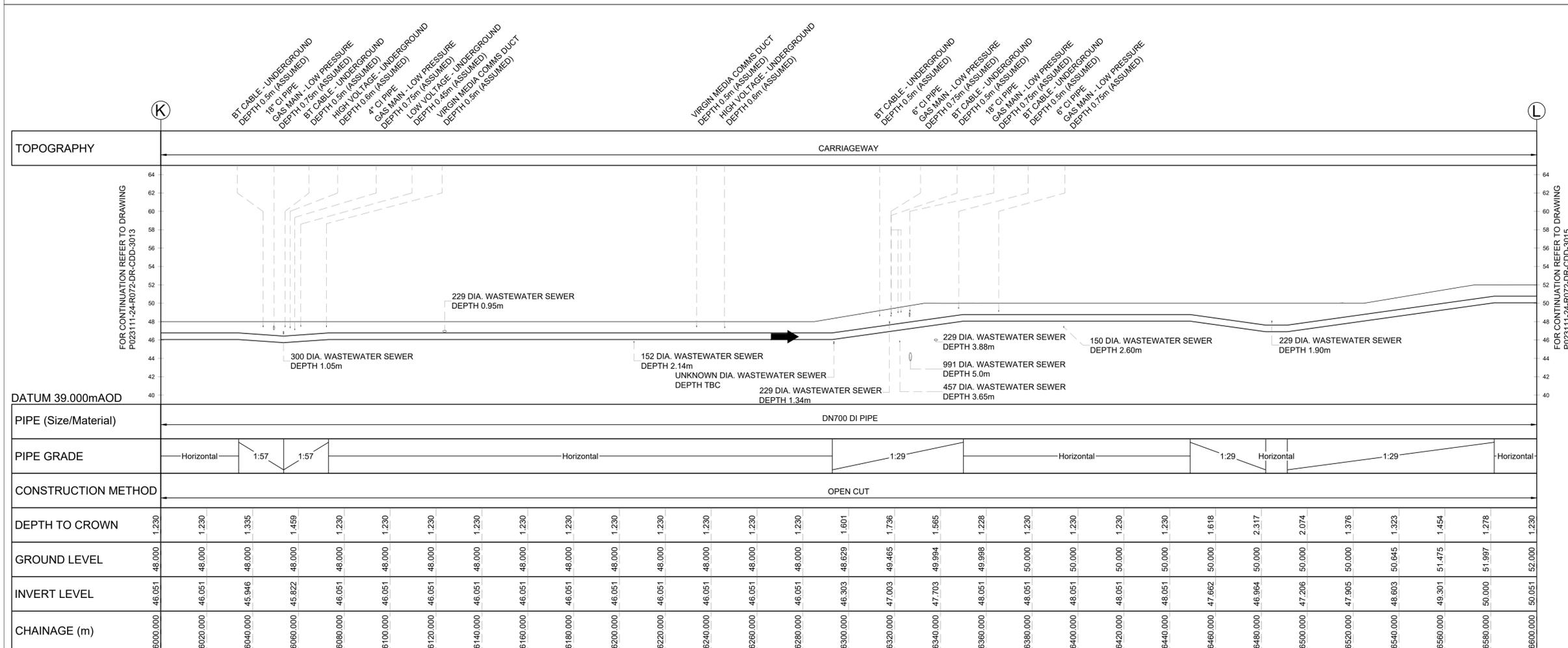
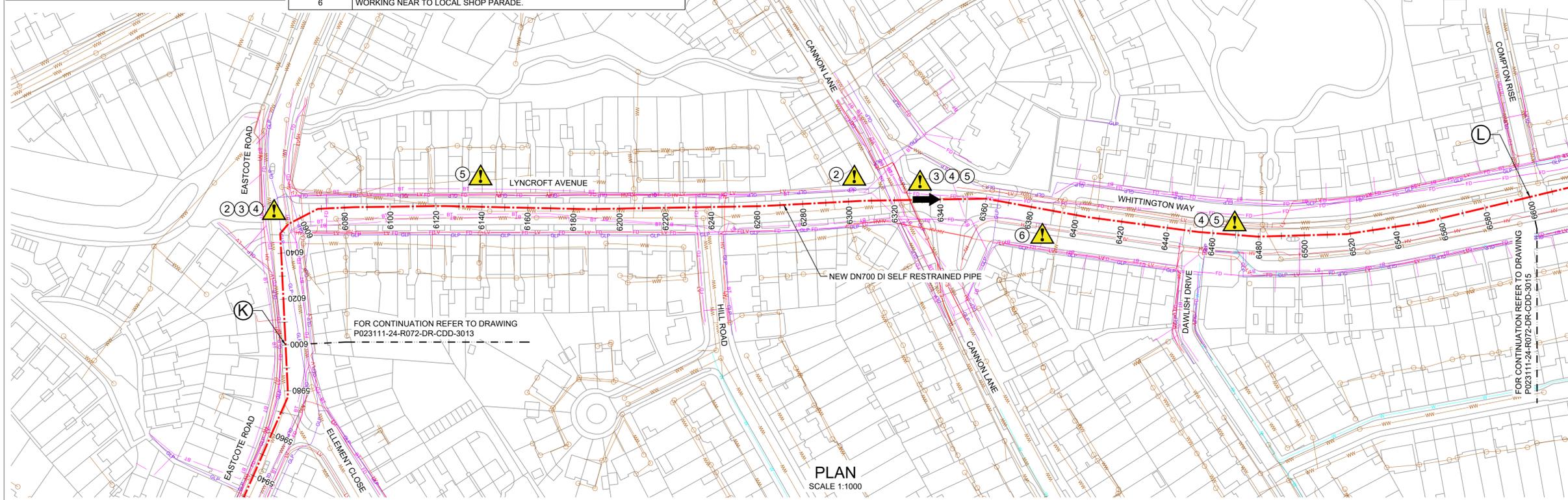
- NEW DN700 DI SELF RESTRAINED PIPE
- FLOW DIRECTION
- AFFINITY WATER MAIN
- GAS MAIN - LOW PRESSURE
- GAS MAIN - MEDIUM PRESSURE
- WASTEWATER SEWER
- WASTEWATER SEWER MANHOLE
- COMMUNICATION / FIBRE DUCTS - UNDERGROUND
- ELECTRICITY - UNDERGROUND
- HIGH VOLTAGE ELECTRICITY - UNDERGROUND
- LOW VOLTAGE ELECTRICITY - UNDERGROUND
- EXTRA HIGH VOLTAGE ELECTRICITY - UNDERGROUND
- EXTRA HIGH VOLTAGE ELECTRICITY - OVERHEAD
- BT CABLE - UNDERGROUND
- BT CABLE - OVERHEAD

**REFERENCES**

- P023111-24-R072-DR-CDD-3013 PIPELINE PLAN AND PROFILE SHEET 10 OF 17
- P023111-24-R072-DR-CDD-3015 PIPELINE PLAN AND PROFILE SHEET 12 OF 17
- P023111-24-R072-DR-CDD-3021 PIPELINE PLAN AND PROFILE SHEET LAYOUT PLAN

**STANTEC DRAWING NUMBER**

331101845/01/C/0014



Rev	Description	Drawn	Check	Approve	Date
P01	FOR INFORMATION ONLY	ARM	LB	DR	25.02.25

**AffinityWater**

Affinity Water Limited  
Tamblin Way  
Hatfield  
Herts. AL10 9EZ

AFFINITY WATER

Site: **TRUNK MAIN**

Project: **C-04113 ICKENHAM-HARROW TRUNK MAIN**

Title: **PIPELINE PLAN AND PROFILE SHEET 11 OF 17**

Job No: TBC	Sheet Size: A1	Scale: AS SHOWN
Drawn: ARM	Checked By: LB	Approved By: DR
Sheet 11 of 17	Doc Location: TBC	

Drawing No: **P023111-24-R072-DR-CDD-3014** Rev: **P01**

**PIPELINE PROFILE**

(HORIZONTAL SCALE 1:1000, VERTICAL SCALE 1:250)

Based upon Ordnance Survey Digital Data with the permission of the controller of H.M.S.O. Crown Copyright Reserved Licence No. 100025261

**DISCLAIMER:**  
THIS DRAWING INCLUDES INFORMATION EXTRACTED FROM STATUTORY PROVIDER RECORDS, UTILITY RECORDS, CONTRACTORS, ORDNANCE SURVEY MAP DATA AND OTHER 3RD PARTIES. THERE COULD BE ERRORS IN THE DATA RECEIVED OR THE INTERPRETATION OF THE DATA AND IT HAS NOT BEEN VERIFIED. THE CONTRACTOR MUST OBTAIN UP TO DATE RECORDS FROM RELEVANT PROVIDERS WITH THE INFORMATION CONFIRMED ON-SITE BY THE CONTRACTOR PRIOR TO COMMENCING WORK.

SIGNIFICANT HAZARDS AND RISKS	
1	WORKING NEAR TO LIVE WATER MAIN.
2	WORKING NEAR TO LIVE LV, EHV AND HV ELECTRICITY CABLE.
3	WORKING NEAR TO LIVE GAS MAIN.
4	WORKING WITHIN A BUSY MAIN ROAD AND JUNCTION.
5	WORKING NEAR TO WASTEWATER SEWERS AND THEIR ASSOCIATED MANHOLES.
6	WORKING IMMEDIATELY ADJACENT TO RESIDENTIAL BUILDING.
7	WORKING WITHIN YEADING BROOK.
8	WORKING NEAR TO LARGE MATURE TREES.
9	WORKING NEAR TO EXISTING BUS STOP AND FOOT PATH.
10	WORKING NEAR TO CONCRETE BOX CULVERT STRUCTURE.

DO NOT SCALE - IF IN DOUBT ASK



**NOTES**

- ALL DIMENSIONS IN MILLIMETRES AND ALL LEVELS IN METRES UNLESS SHOWN OTHERWISE.
- SERVICE LOCATIONS EXTRACTED FROM THIRD PARTY UTILITY RECORDS AND SHOWN FOR INFORMATION ONLY; WILL REQUIRE FURTHER VALIDATION BEFORE CONSTRUCTION.
- WHERE UTILITY DEPTH IS NOT KNOWN, A DEPTH HAS BEEN ASSUMED BASED ON HSG47 (THIRD EDITION).
- ONLY SIGNIFICANT UTILITY CROSSINGS SHOWN ON LONG SECTION.
- GROUND LEVEL INFORMATION HAS BEEN TAKEN FROM LIDAR DATA AND ITS ACCURACY HAS NOT BEEN VERIFIED.
- SEWER DEPTHS ARE TAKEN FROM AVAILABLE GIS DATA FROM THAMES WATER. WHERE DEPTH DATA IS NOT AVAILABLE, THESE HAVE BEEN ASSUMED TO BE 2.5m DEPTH TO PIPE CROWN.
- WATER COURSE DEPTH ASSUMED FROM SITE PHOTOGRAPHS.

**LEGEND**

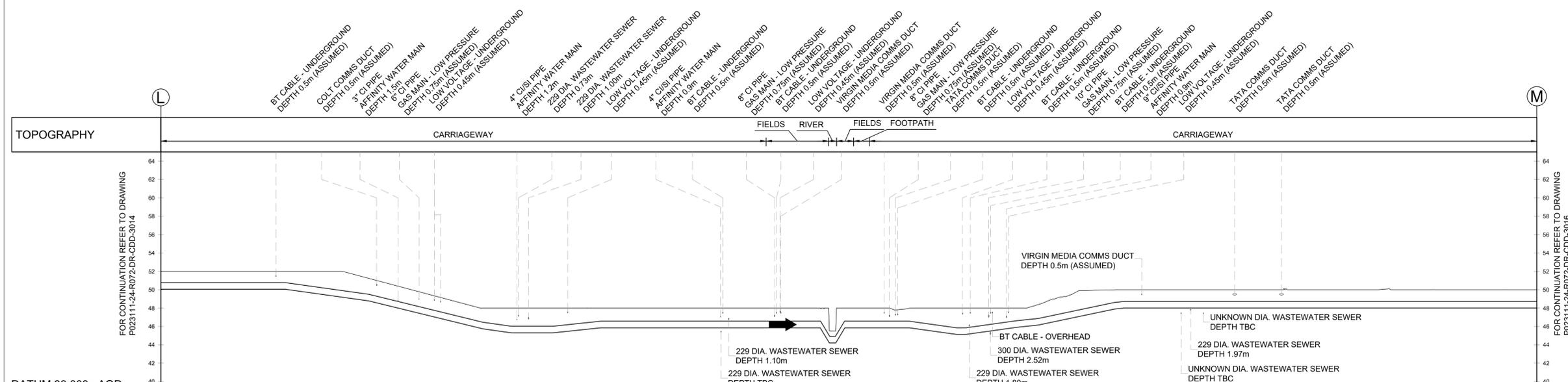
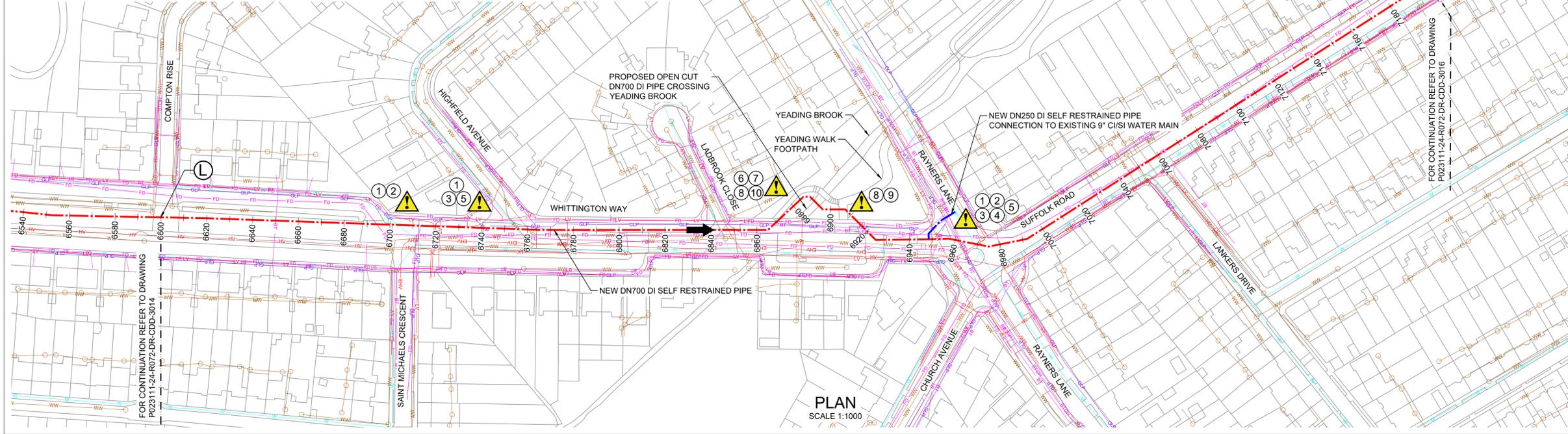
- NEW DN700 DI SELF RESTRAINED PIPE
- NEW DN250 DI SELF RESTRAINED PIPE
- FLOW DIRECTION
- AFFINITY WATER MAIN
- GAS MAIN - LOW PRESSURE
- GAS MAIN - MEDIUM PRESSURE
- WASTEWATER SEWER
- WASTEWATER SEWER MANHOLE
- COMMUNICATION / FIBRE DUCTS - UNDERGROUND
- ELECTRICITY - UNDERGROUND
- HIGH VOLTAGE ELECTRICITY - UNDERGROUND
- LOW VOLTAGE ELECTRICITY - UNDERGROUND
- EXTRA HIGH VOLTAGE ELECTRICITY - UNDERGROUND
- EXTRA HIGH VOLTAGE ELECTRICITY - OVERHEAD
- BT CABLE - UNDERGROUND
- BT CABLE - OVERHEAD

**REFERENCES**

- P023111-24-R072-DR-CDD-3014 PIPELINE PLAN AND PROFILE SHEET 11 OF 17
- P023111-24-R072-DR-CDD-3016 PIPELINE PLAN AND PROFILE SHEET 13 OF 17
- P023111-24-R072-DR-CDD-3021 PIPELINE PLAN AND PROFILE SHEET LAYOUT PLAN

**STANTEC DRAWING NUMBER**

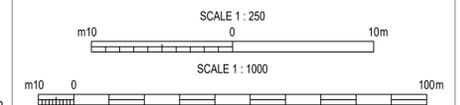
331101845/01/C/0015



DEPTH TO CROWN	GROUND LEVEL	INVERT LEVEL	CHAINAGE (m)
1.230	52.000	50.051	6600.000
1.230	52.000	50.051	6620.000
1.230	52.000	50.051	6640.000
1.434	52.000	49.847	6660.000
2.076	51.944	49.148	6680.000
1.886	50.612	48.205	6700.000
1.581	49.283	46.992	6720.000
1.521	48.000	45.759	6740.000
1.991	48.000	45.300	6760.000
1.742	48.000	45.538	6780.000
1.431	48.000	45.850	6800.000
1.431	48.000	45.850	6820.000
1.431	48.000	45.850	6840.000
1.431	48.000	45.850	6860.000
1.430	48.000	45.851	6880.000
1.222	47.792	45.851	6900.000
1.906	48.000	45.372	6940.000
1.839	48.000	45.442	6960.000
1.380	48.168	46.080	6980.000
2.078	49.856	47.058	7000.000
1.283	49.998	47.996	7020.000
1.280	50.000	48.001	7040.000
1.280	50.000	48.001	7060.000
1.280	50.000	48.001	7080.000
1.280	50.000	48.001	7100.000
1.280	50.000	48.001	7120.000
1.280	50.000	48.001	7140.000
1.280	50.000	48.001	7160.000
1.280	50.000	48.001	7180.000
1.280	50.000	48.001	7200.000

**PIPELINE PROFILE**  
(HORIZONTAL SCALE 1:1000, VERTICAL SCALE 1:250)

Based upon Ordnance Survey Digital Data with the permission of the controller of H.M.S.O. Crown Copyright Reserved Licence No. 100025261



Rev	Description	Drawn	Check	Approve	Date
P01	FOR INFORMATION ONLY	ARM	LB	DR	25.02.25

"P" Preliminary "T" Tender "C" Construction "R" Record

Affinity Water Limited  
Tomblin Way  
Hatfield  
Herts. AL10 9EZ

Site: **TRUNK MAIN**

Project: **C-04113 ICKENHAM-HARROW TRUNK MAIN**

Title: **PIPELINE PLAN AND PROFILE SHEET 12 OF 17**

Job No: TBC	Sheet Size: A1	Scale: AS SHOWN
Drawn: ARM	Checked By: LB	Approved By: DR
Sheet 12 of 17	Doc Location: TBC	

Drawing No: **P023111-24-R072-DR-CDD-3015** Rev: **P01**

**DISCLAIMER:**  
THIS DRAWING INCLUDES INFORMATION EXTRACTED FROM STATUTORY PROVIDER RECORDS, UTILITY RECORDS, CONTRACTORS, ORDNANCE SURVEY MAP DATA AND OTHER 3RD PARTIES. THERE COULD BE ERRORS IN THE DATA RECEIVED OR THE INTERPRETATION OF THE DATA AND IT HAS NOT BEEN VERIFIED. THE CONTRACTOR MUST OBTAIN UP TO DATE RECORDS FROM RELEVANT PROVIDERS WITH THE INFORMATION CONFIRMED ON-SITE BY THE CONTRACTOR PRIOR TO COMMENCING WORK.

SIGNIFICANT HAZARDS AND RISKS	
1	WORKING NEAR TO LIVE WATER MAIN.
2	WORKING NEAR TO LIVE LV, HV AND EHV ELECTRICITY CABLE.
3	WORKING NEAR TO LIVE GAS MAIN.
4	WORKING WITHIN A BUSY MAIN ROAD AND JUNCTION.
5	WORKING NEAR TO WASTEWATER SEWERS AND THEIR ASSOCIATED MANHOLES.
6	WORKING NEAR TO LARGE MATURE TREES.
7	WORKING NEAR TO LARGE ELECTRICITY PYLON AND SUBSTATION.

DO NOT SCALE - IF IN DOUBT ASK

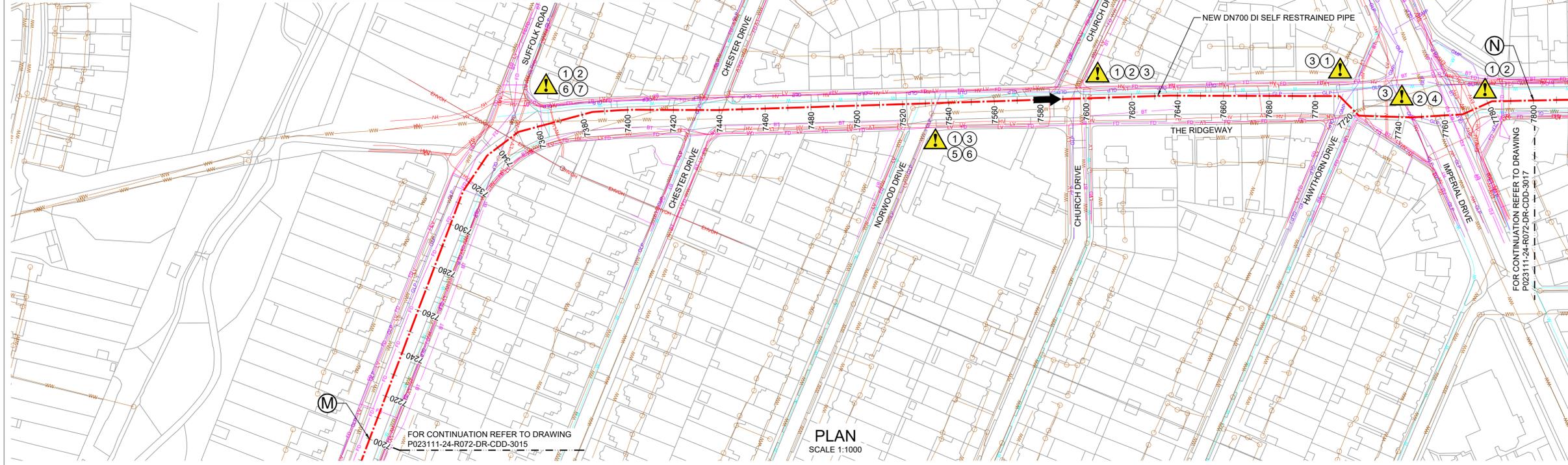


**NOTES**

- ALL DIMENSIONS IN MILLIMETRES AND ALL LEVELS IN METRES UNLESS SHOWN OTHERWISE.
- SERVICE LOCATIONS EXTRACTED FROM THIRD PARTY UTILITY RECORDS AND SHOWN FOR INFORMATION ONLY; WILL REQUIRE FURTHER VALIDATION BEFORE CONSTRUCTION.
- WHERE UTILITY DEPTH IS NOT KNOWN, A DEPTH HAS BEEN ASSUMED BASED ON HSG47 (THIRD EDITION).
- ONLY SIGNIFICANT UTILITY CROSSINGS SHOWN ON LONG SECTION.
- GROUND LEVEL INFORMATION HAS BEEN TAKEN FROM LIDAR DATA AND ITS ACCURACY HAS NOT BEEN VERIFIED.
- SEWER DEPTHS ARE TAKEN FROM AVAILABLE GIS DATA FROM THAMES WATER. WHERE DEPTH DATA IS NOT AVAILABLE, THESE HAVE BEEN ASSUMED TO BE 2.5m DEPTH TO PIPE CROWN.

**LEGEND**

- NEW DN700 DI SELF RESTRAINED PIPE
- FLOW DIRECTION
- AFFINITY WATER MAIN
- GAS MAIN - LOW PRESSURE
- GAS MAIN - MEDIUM PRESSURE
- WASTEWATER SEWER
- WASTEWATER SEWER MANHOLE
- COMMUNICATION / FIBRE DUCTS - UNDERGROUND
- ELECTRICITY - UNDERGROUND
- HIGH VOLTAGE ELECTRICITY - UNDERGROUND
- LOW VOLTAGE ELECTRICITY - UNDERGROUND
- EXTRA HIGH VOLTAGE ELECTRICITY - UNDERGROUND
- EXTRA HIGH VOLTAGE ELECTRICITY - OVERHEAD
- BT CABLE - UNDERGROUND
- BT CABLE - OVERHEAD



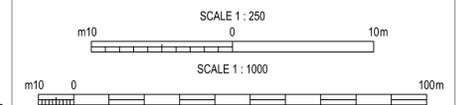
**REFERENCES**

- P023111-24-R072-DR-CDD-3015 PIPELINE PLAN AND PROFILE SHEET 12 OF 17
- P023111-24-R072-DR-CDD-3017 PIPELINE PLAN AND PROFILE SHEET 14 OF 17
- P023111-24-R072-DR-CDD-3021 PIPELINE PLAN AND PROFILE SHEET LAYOUT PLAN

**STANTEC DRAWING NUMBER**

331101845/01/C/0016

CHAINAGE (m)	DEPTH TO CROWN	GROUND LEVEL	INVERT LEVEL
7200.000	1.280	50.000	48.001
7220.000	1.280	50.000	48.001
7240.000	1.275	50.000	48.006
7260.000	1.187	50.261	48.355
7280.000	1.201	50.624	48.705
7300.000	1.214	50.987	49.054
7320.000	1.225	51.347	49.403
7340.000	1.263	51.734	49.752
7360.000	1.287	52.107	50.101
7380.000	1.319	52.488	50.450
7400.000	1.362	52.881	50.799
7420.000	1.381	53.248	51.148
7440.000	1.410	53.626	51.497
7460.000	1.447	54.013	51.846
7480.000	1.477	54.392	52.196
7500.000	1.500	54.764	52.545
7520.000	1.524	55.136	52.894
7540.000	1.431	55.509	53.259
7560.000	1.280	55.882	53.633
7580.000	1.233	56.003	54.051
7600.000	1.232	56.002	54.051
7620.000	1.215	55.985	54.051
7640.000	1.244	55.893	53.620
7660.000	1.245	54.783	52.818
7680.000	1.316	53.982	51.944
7700.000	1.388	53.179	51.071
7720.000	1.270	52.466	50.496
7740.000	1.308	52.000	49.972
7760.000	1.331	52.000	49.950
7780.000	1.331	52.000	49.950
7800.000	1.336	50.726	48.666



Rev	Description	Drawn	Check	Approve	Date
P01	FOR INFORMATION ONLY	ARM	LB	DR	25.02.25

"P" Preliminary "T" Tender "C" Construction "R" Record

Affinity Water Limited  
Tamblin Way  
Hatfield  
Herts. AL10 9EZ

Site: **TRUNK MAIN**

Project: **C-04113 ICKENHAM-HARROW TRUNK MAIN**

Title: **PIPELINE PLAN AND PROFILE SHEET 13 OF 17**

Job No: TBC	Sheet Size: A1	Scale: AS SHOWN
Drawn: ARM	Checked By: LB	Approved By: DR
Sheet 13 of 17	Doc Location: TBC	

Drawing No: **P023111-24-R072-DR-CDD-3016** Rev: **P01**

**DISCLAIMER:**  
THIS DRAWING INCLUDES INFORMATION EXTRACTED FROM STATUTORY PROVIDER RECORDS, UTILITY RECORDS, CONTRACTORS, ORDNANCE SURVEY MAP DATA AND OTHER 3RD PARTIES. THERE COULD BE ERRORS IN THE DATA RECEIVED OR THE INTERPRETATION OF THE DATA AND IT HAS NOT BEEN VERIFIED. THE CONTRACTOR MUST OBTAIN UP TO DATE RECORDS FROM RELEVANT PROVIDERS WITH THE INFORMATION CONFIRMED ON-SITE BY THE CONTRACTOR PRIOR TO COMMENCING WORK.

SIGNIFICANT HAZARDS AND RISKS	
1	WORKING NEAR TO LIVE WATER MAIN.
2	WORKING NEAR TO LIVE LV, HV ELECTRICITY CABLE.
3	WORKING NEAR TO LIVE GAS MAIN.
4	WORKING WITHIN A BUSY MAIN ROAD AND JUNCTION.
5	WORKING NEAR TO WASTEWATER SEWERS AND THEIR ASSOCIATED MANHOLES.
6	WORKING NEAR TO LARGE MATURE TREES.
7	WORKING WITHIN HARROW GOSPEL HALL SITE WHICH IS A DISUSED SITE AND ADDITIONAL SECURITY MAY BE REQUIRED.

DO NOT SCALE - IF IN DOUBT ASK



**NOTES**

- ALL DIMENSIONS IN MILLIMETRES AND ALL LEVELS IN METRES UNLESS SHOWN OTHERWISE.
- SERVICE LOCATIONS EXTRACTED FROM THIRD PARTY UTILITY RECORDS AND SHOWN FOR INFORMATION ONLY; WILL REQUIRE FURTHER VALIDATION BEFORE CONSTRUCTION.
- WHERE UTILITY DEPTH IS NOT KNOWN, A DEPTH HAS BEEN ASSUMED BASED ON HSG47 (THIRD EDITION).
- ONLY SIGNIFICANT UTILITY CROSSINGS SHOWN ON LONG SECTION.
- GROUND LEVEL INFORMATION HAS BEEN TAKEN FROM LIDAR DATA AND ITS ACCURACY HAS NOT BEEN VERIFIED.
- SEWER DEPTHS ARE TAKEN FROM AVAILABLE GIS DATA FROM THAMES WATER. WHERE DEPTH DATA IS NOT AVAILABLE, THESE HAVE BEEN ASSUMED TO BE 2.5m DEPTH TO PIPE CROWN.

**LEGEND**

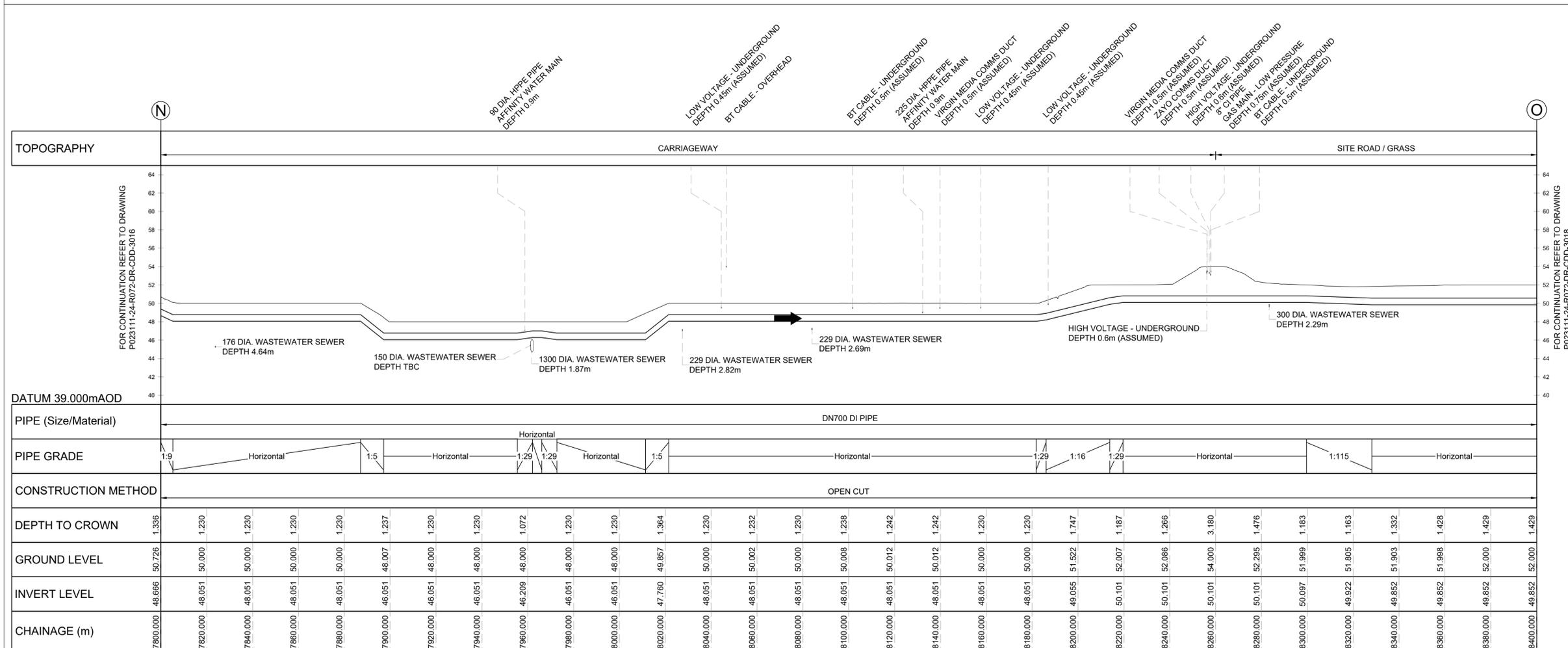
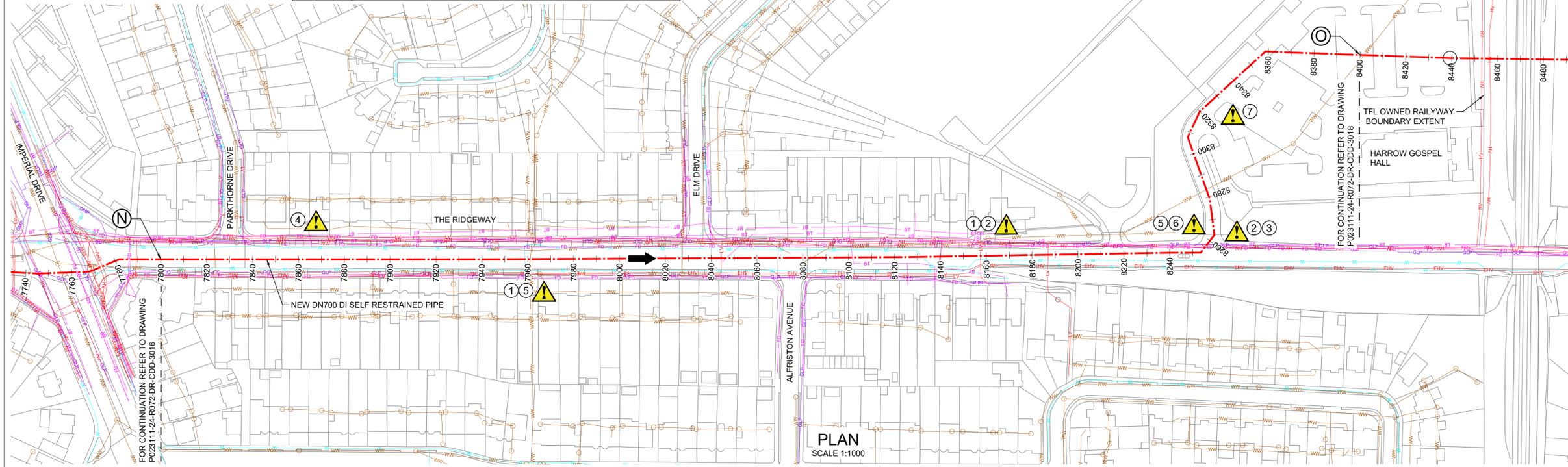
- NEW DN700 DI SELF RESTRAINED PIPE
- FLOW DIRECTION
- AFFINITY WATER MAIN
- GAS MAIN - LOW PRESSURE
- GAS MAIN - MEDIUM PRESSURE
- WASTEWATER SEWER
- WASTEWATER SEWER MANHOLE
- COMMUNICATION / FIBRE DUCTS - UNDERGROUND
- ELECTRICITY - UNDERGROUND
- HIGH VOLTAGE ELECTRICITY - UNDERGROUND
- LOW VOLTAGE ELECTRICITY - UNDERGROUND
- EXTRA HIGH VOLTAGE ELECTRICITY - UNDERGROUND
- EXTRA HIGH VOLTAGE ELECTRICITY - OVERHEAD
- BT CABLE - UNDERGROUND
- BT CABLE - OVERHEAD

**REFERENCES**

- P023111-24-R072-DR-CDD-3016 PIPELINE PLAN AND PROFILE SHEET 13 OF 17
- P023111-24-R072-DR-CDD-3018 PIPELINE PLAN AND PROFILE SHEET 15 OF 17
- P023111-24-R072-DR-CDD-3021 PIPELINE PLAN AND PROFILE SHEET LAYOUT PLAN

**STANTEC DRAWING NUMBER**

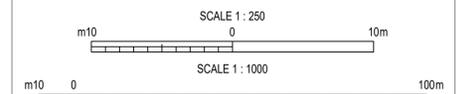
331101845/01/C/0017



CHAINAGE (m)	DEPTH TO CROWN	GROUND LEVEL	INVERT LEVEL
7800.000	1.336	50.726	48.686
7820.000	1.230	50.000	48.051
7840.000	1.230	50.000	48.051
7860.000	1.230	50.000	48.051
7880.000	1.230	50.000	48.051
7900.000	1.237	48.007	46.051
7920.000	1.230	48.000	46.051
7940.000	1.230	48.000	46.051
7960.000	1.072	48.000	46.209
7980.000	1.230	48.000	46.051
8000.000	1.230	48.000	46.051
8020.000	1.364	49.857	47.760
8040.000	1.230	50.000	48.051
8060.000	1.232	50.002	48.051
8080.000	1.230	50.000	48.051
8100.000	1.238	50.008	48.051
8120.000	1.242	50.012	48.051
8140.000	1.242	50.012	48.051
8160.000	1.230	50.000	48.051
8180.000	1.230	50.000	48.051
8200.000	1.747	51.522	49.055
8220.000	1.187	52.007	50.101
8240.000	1.266	52.068	50.101
8260.000	3.180	54.000	50.101
8280.000	1.476	52.295	50.101
8300.000	1.183	51.999	50.097
8320.000	1.163	51.805	49.922
8340.000	1.332	51.903	49.852
8360.000	1.428	51.996	49.852
8380.000	1.429	52.000	49.852
8400.000	1.429	52.000	49.852

**PIPELINE PROFILE**  
(HORIZONTAL SCALE 1:1000, VERTICAL SCALE 1:250)

Based upon Ordnance Survey Digital Data with the permission of the controller of H.M.S.O. Crown Copyright Reserved Licence No. 100025261



Rev	Description	Drawn	Check	Approve	Date
P01	FOR INFORMATION ONLY	ARM	LB	DR	25.02.25

**AffinityWater**

Affinity Water Limited  
Tomblin Way  
Hatfield  
Herts. AL10 9EZ

Site: **TRUNK MAIN**

Project: **C-04113 ICKENHAM-HARROW TRUNK MAIN**

Title: **PIPELINE PLAN AND PROFILE SHEET 14 OF 17**

Job No:	Sheet Size:	A1	Scale:	A5 SHOWN
Drawn: ARM	Checked By: LB	Approved By: DR		
Sheet 14 of 17	Doc Location: TBC			
Drawing No:				Rev:
<b>P023111-24-R072-DR-CDD-3017</b>				<b>P01</b>

**DISCLAIMER:**  
 THIS DRAWING INCLUDES INFORMATION EXTRACTED FROM STATUTORY PROVIDER RECORDS, UTILITY RECORDS, CONTRACTORS, ORDNANCE SURVEY MAP DATA AND OTHER 3RD PARTIES. THERE COULD BE ERRORS IN THE DATA RECEIVED OR THE INTERPRETATION OF THE DATA AND IT HAS NOT BEEN VERIFIED. THE CONTRACTOR MUST OBTAIN UP TO DATE RECORDS FROM RELEVANT PROVIDERS WITH THE INFORMATION CONFIRMED ON-SITE BY THE CONTRACTOR PRIOR TO COMMENCING WORK.

SIGNIFICANT HAZARDS AND RISKS	
1	WORKING WITHIN DEEP EXCAVATIONS AND TUNNELLING FOR PIPEJACKING REQUIRED. GEOTECHNICAL SURVEY REQUIRED.
2	WORKING CLOSE TO EXISTING THAMES WATER 1050 DIA. COMBINED WASTE WATER SEWER.
3	WORKS ADJACENT TO AND UNDER LIVE RAILWAY.
4	WORKING NEAR TO EXISTING MATURE TREES.
5	WORKING NEAR TO LIVE GAS MAIN.
6	WORKING NEAR TO LIVE HV ELECTRICITY CABLE.
7	WORKING WITHIN BUSY JUNCTION
8	WORKING IN PUBLIC ROAD AND RESIDENTIAL AREA
9	WORKING NEAR TO WEST HARROW BOWLS CLUB AND CONCEALED PEDESTRIAN ENTRANCE

DO NOT SCALE - IF IN DOUBT ASK



**NOTES**

- ALL DIMENSIONS IN MILLIMETRES AND ALL LEVELS IN METRES UNLESS SHOWN OTHERWISE.
- SERVICE LOCATIONS EXTRACTED FROM THIRD PARTY UTILITY RECORDS AND SHOWN FOR INFORMATION ONLY; WILL REQUIRE FURTHER VALIDATION BEFORE CONSTRUCTION.
- WHERE UTILITY DEPTH IS NOT KNOWN, A DEPTH HAS BEEN ASSUMED BASED ON HSG47 (THIRD EDITION).
- ONLY SIGNIFICANT UTILITY CROSSINGS SHOWN ON LONG SECTION.
- GROUND LEVEL INFORMATION HAS BEEN TAKEN FROM LIDAR DATA AND ITS ACCURACY HAS NOT BEEN VERIFIED.
- SEWER DEPTHS ARE TAKEN FROM AVAILABLE GIS DATA FROM THAMES WATER. WHERE DEPTH DATA IS NOT AVAILABLE, THESE HAVE BEEN ASSUMED TO BE 2.5m DEPTH TO PIPE CROWN.

**LEGEND**

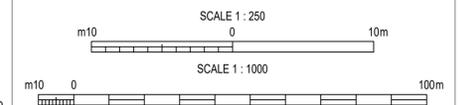
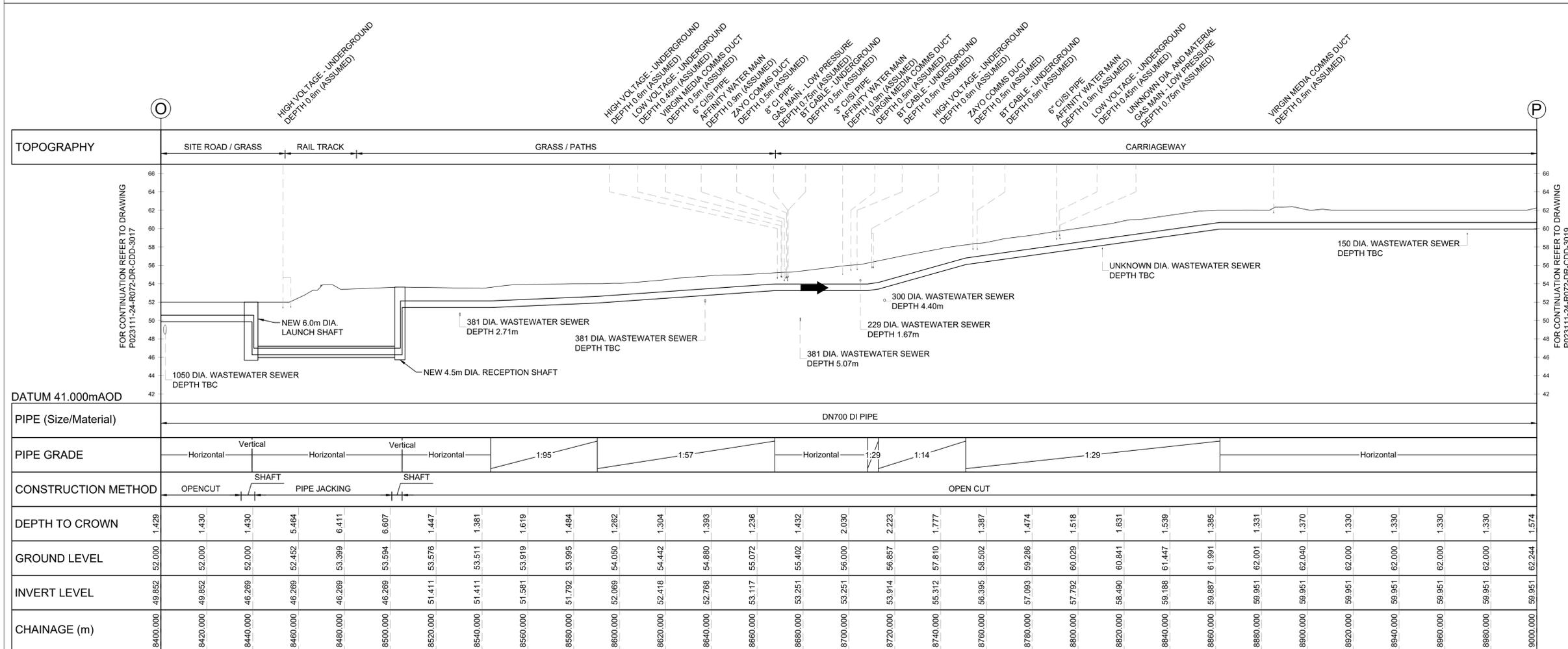
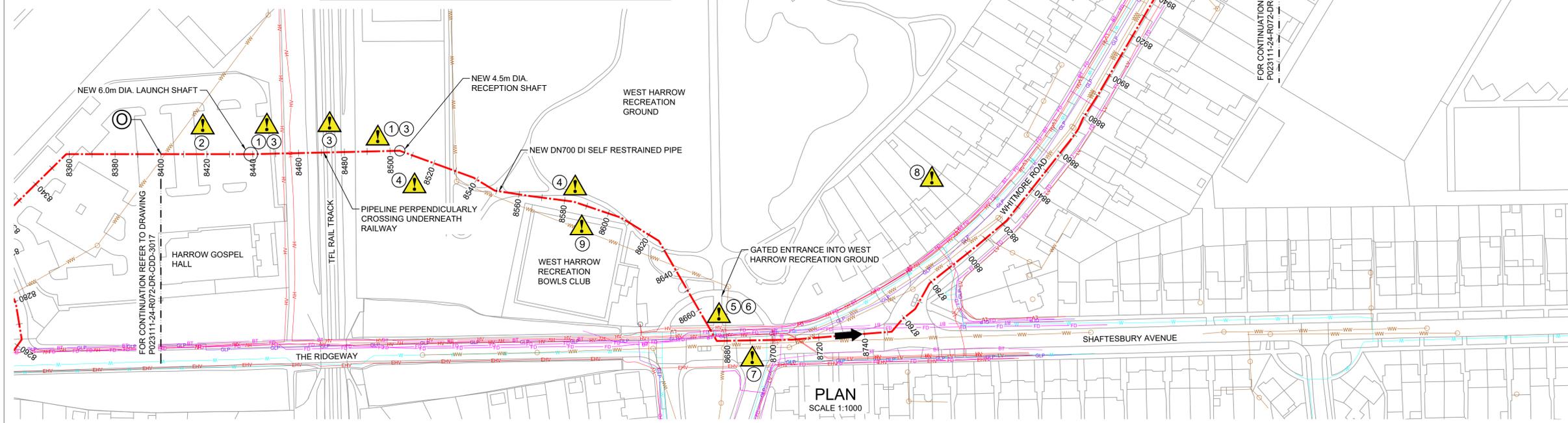
- NEW DN700 DI SELF RESTRAINED PIPE
- FLOW DIRECTION
- AFFINITY WATER MAIN
- GAS MAIN - LOW PRESSURE
- GAS MAIN - MEDIUM PRESSURE
- WASTEWATER SEWER
- WASTEWATER SEWER MANHOLE - UNDERGROUND
- COMMUNICATION / FIBRE DUCTS - UNDERGROUND
- ELECTRICITY - UNDERGROUND
- HIGH VOLTAGE ELECTRICITY - UNDERGROUND
- LOW VOLTAGE ELECTRICITY - UNDERGROUND
- EXTRA HIGH VOLTAGE ELECTRICITY - UNDERGROUND
- EXTRA HIGH VOLTAGE ELECTRICITY - OVERHEAD
- BT CABLE - UNDERGROUND
- BT CABLE - OVERHEAD

**REFERENCES**

- P023111-24-R072-DR-CDD-3017 PIPELINE PLAN AND PROFILE SHEET 14 OF 17
- P023111-24-R072-DR-CDD-3019 PIPELINE PLAN AND PROFILE SHEET 16 OF 17
- P023111-24-R072-DR-CDD-3021 PIPELINE PLAN AND PROFILE SHEET LAYOUT PLAN

**STANTEC DRAWING NUMBER**

331101845/01/C/0018



Rev	Description	Drawn	Check	Approve	Date
P01	FOR INFORMATION ONLY	ARM	LB	DR	25.02.25

"P" Preliminary "T" Tender "C" Construction "R" Record

Affinity Water Limited  
 Tamblin Way  
 Hatfield  
 Herts. AL10 9EZ

Site: **TRUNK MAIN**

Project: **C-04113 ICKENHAM-HARROW TRUNK MAIN**

Title: **PIPELINE PLAN AND PROFILE SHEET 15 OF 17**

Job No: TBC	Sheet Size: A1	Scale: AS SHOWN
Drawn: ARM	Checked By: LB	Approved By: DR
Sheet 15 of 17	Doc Location: TBC	

Drawing No: **P023111-24-R072-DR-CDD-3018** Rev: **P01**

**DISCLAIMER:**  
 THIS DRAWING INCLUDES INFORMATION EXTRACTED FROM STATUTORY PROVIDER RECORDS, UTILITY RECORDS, CONTRACTORS, ORDNANCE SURVEY MAP DATA AND OTHER 3RD PARTIES. THERE COULD BE ERRORS IN THE DATA RECEIVED OR THE INTERPRETATION OF THE DATA AND IT HAS NOT BEEN VERIFIED. THE CONTRACTOR MUST OBTAIN UP TO DATE RECORDS FROM RELEVANT PROVIDERS WITH THE INFORMATION CONFIRMED ON-SITE BY THE CONTRACTOR PRIOR TO COMMENCING WORK.

SIGNIFICANT HAZARDS AND RISKS	
1	WORKING NEAR TO LIVE WATER MAIN.
2	WORKING NEAR TO LIVE LV, HV ELECTRICITY CABLE.
3	WORKING NEAR TO LIVE GAS MAIN.
4	WORKING WITHIN A BUSY MAIN ROAD AND JUNCTION.
5	WORKING NEAR TO WASTEWATER SEWERS AND THEIR ASSOCIATED MANHOLES.
6	WORKING NEAR TO LARGE MATURE TREES.



DO NOT SCALE - IF IN DOUBT ASK

**NOTES**

- ALL DIMENSIONS IN MILLIMETRES AND ALL LEVELS IN METRES UNLESS SHOWN OTHERWISE.
- SERVICE LOCATIONS EXTRACTED FROM THIRD PARTY UTILITY RECORDS AND SHOWN FOR INFORMATION ONLY; WILL REQUIRE FURTHER VALIDATION BEFORE CONSTRUCTION.
- WHERE UTILITY DEPTH IS NOT KNOWN, A DEPTH HAS BEEN ASSUMED BASED ON HSG47 (THIRD EDITION).
- ONLY SIGNIFICANT UTILITY CROSSINGS SHOWN ON LONG SECTION.
- GROUND LEVEL INFORMATION HAS BEEN TAKEN FROM LIDAR DATA AND ITS ACCURACY HAS NOT BEEN VERIFIED.
- SEWER DEPTHS ARE TAKEN FROM AVAILABLE GIS DATA FROM THAMES WATER. WHERE DEPTH DATA IS NOT AVAILABLE, THESE HAVE BEEN ASSUMED TO BE 2.5m DEPTH TO PIPE CROWN.

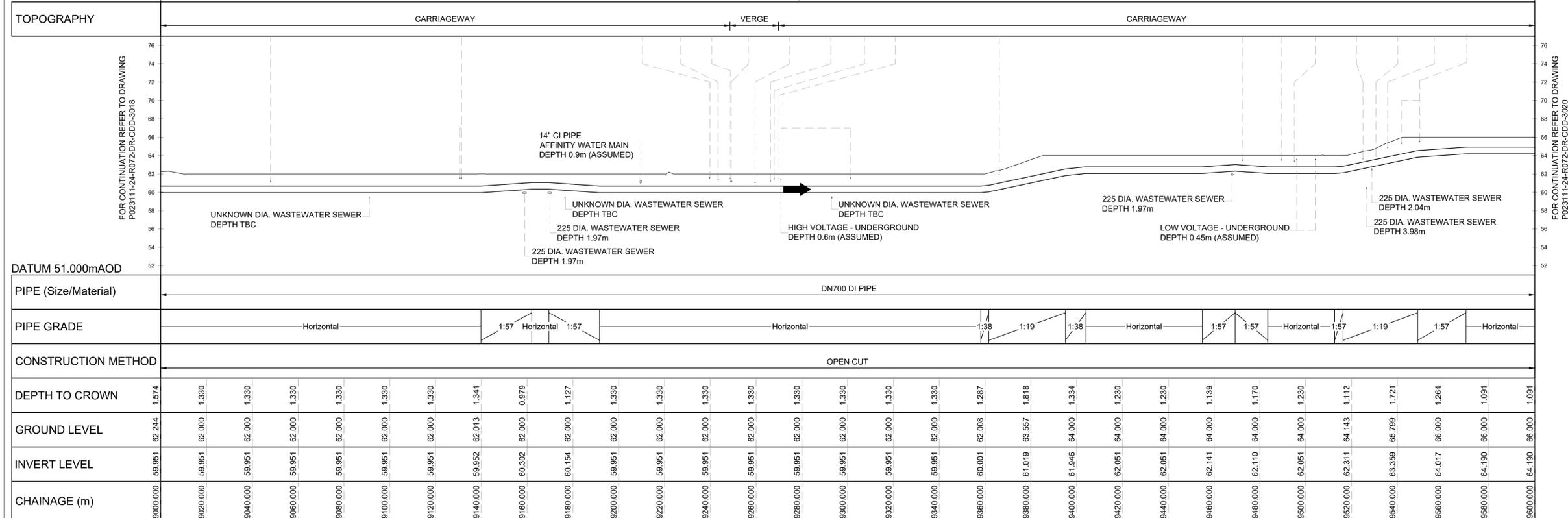
**LEGEND**

- NEW DN700 DI SELF RESTRAINED PIPE
- FLOW DIRECTION
- AFFINITY WATER MAIN
- GAS MAIN - LOW PRESSURE
- GAS MAIN - MEDIUM PRESSURE
- WASTEWATER SEWER
- WASTEWATER SEWER MANHOLE
- COMMUNICATION / FIBRE DUCTS - UNDERGROUND
- ELECTRICITY - UNDERGROUND
- HIGH VOLTAGE ELECTRICITY - UNDERGROUND
- LOW VOLTAGE ELECTRICITY - UNDERGROUND
- EXTRA HIGH VOLTAGE ELECTRICITY - UNDERGROUND
- EXTRA HIGH VOLTAGE ELECTRICITY - OVERHEAD
- BT CABLE - UNDERGROUND
- BT CABLE - OVERHEAD

**REFERENCES**

- P023111-24-R072-DR-CDD-3018 PIPELINE PLAN AND PROFILE SHEET 15 OF 17
- P023111-24-R072-DR-CDD-3020 PIPELINE PLAN AND PROFILE SHEET 17 OF 17
- P023111-24-R072-DR-CDD-3021 PIPELINE PLAN AND PROFILE SHEET LAYOUT PLAN

**STANTEC DRAWING NUMBER**  
331101845/01/C/0019



SCALE 1:250  
SCALE 1:1000

Rev	Description	Drawn	Check	Approve	Date
P01	FOR INFORMATION ONLY	ARM	LB	DR	25.02.25

"P" Preliminary "T" Tender "C" Construction "R" Record

Affinity Water Limited  
 Tamblin Way  
 Hatfield  
 Herts. AL10 9EZ

Site: **TRUNK MAIN**

Project: **C-04113 ICKENHAM-HARROW TRUNK MAIN**

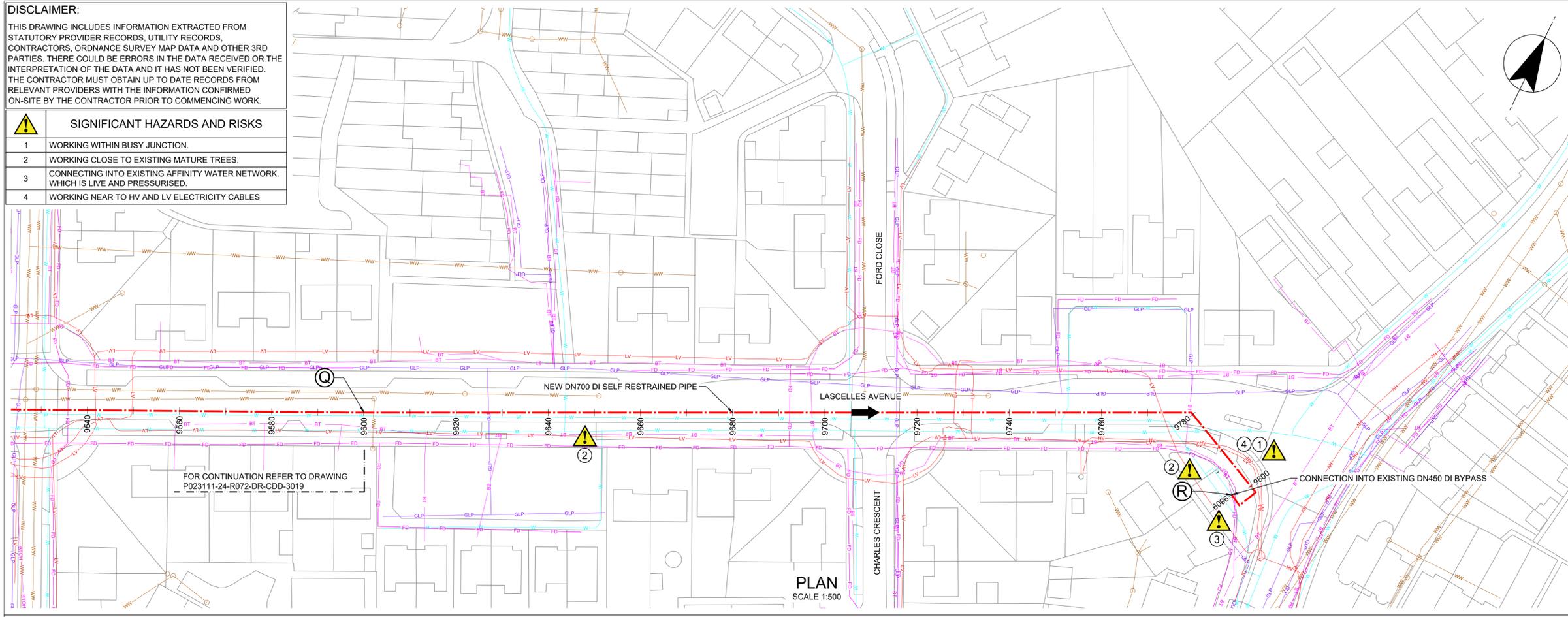
Title: **PIPELINE PLAN AND PROFILE SHEET 16 OF 17**

Job No: TBC	Sheet Size: A1	Scale: AS SHOWN
Drawn: ARM	Checked By: LB	Approved By: DR
Sheet 16 of 17	Doc Location: TBC	

Drawing No: **P023111-24-R072-DR-CDD-3019** Rev: **P01**

**DISCLAIMER:**  
 THIS DRAWING INCLUDES INFORMATION EXTRACTED FROM STATUTORY PROVIDER RECORDS, UTILITY RECORDS, CONTRACTORS, ORDNANCE SURVEY MAP DATA AND OTHER 3RD PARTIES. THERE COULD BE ERRORS IN THE DATA RECEIVED OR THE INTERPRETATION OF THE DATA AND IT HAS NOT BEEN VERIFIED. THE CONTRACTOR MUST OBTAIN UP TO DATE RECORDS FROM RELEVANT PROVIDERS WITH THE INFORMATION CONFIRMED ON-SITE BY THE CONTRACTOR PRIOR TO COMMENCING WORK.

SIGNIFICANT HAZARDS AND RISKS	
1	WORKING WITHIN BUSY JUNCTION.
2	WORKING CLOSE TO EXISTING MATURE TREES.
3	CONNECTING INTO EXISTING AFFINITY WATER NETWORK WHICH IS LIVE AND PRESSURISED.
4	WORKING NEAR TO HV AND LV ELECTRICITY CABLES



DO NOT SCALE - IF IN DOUBT ASK



**NOTES**

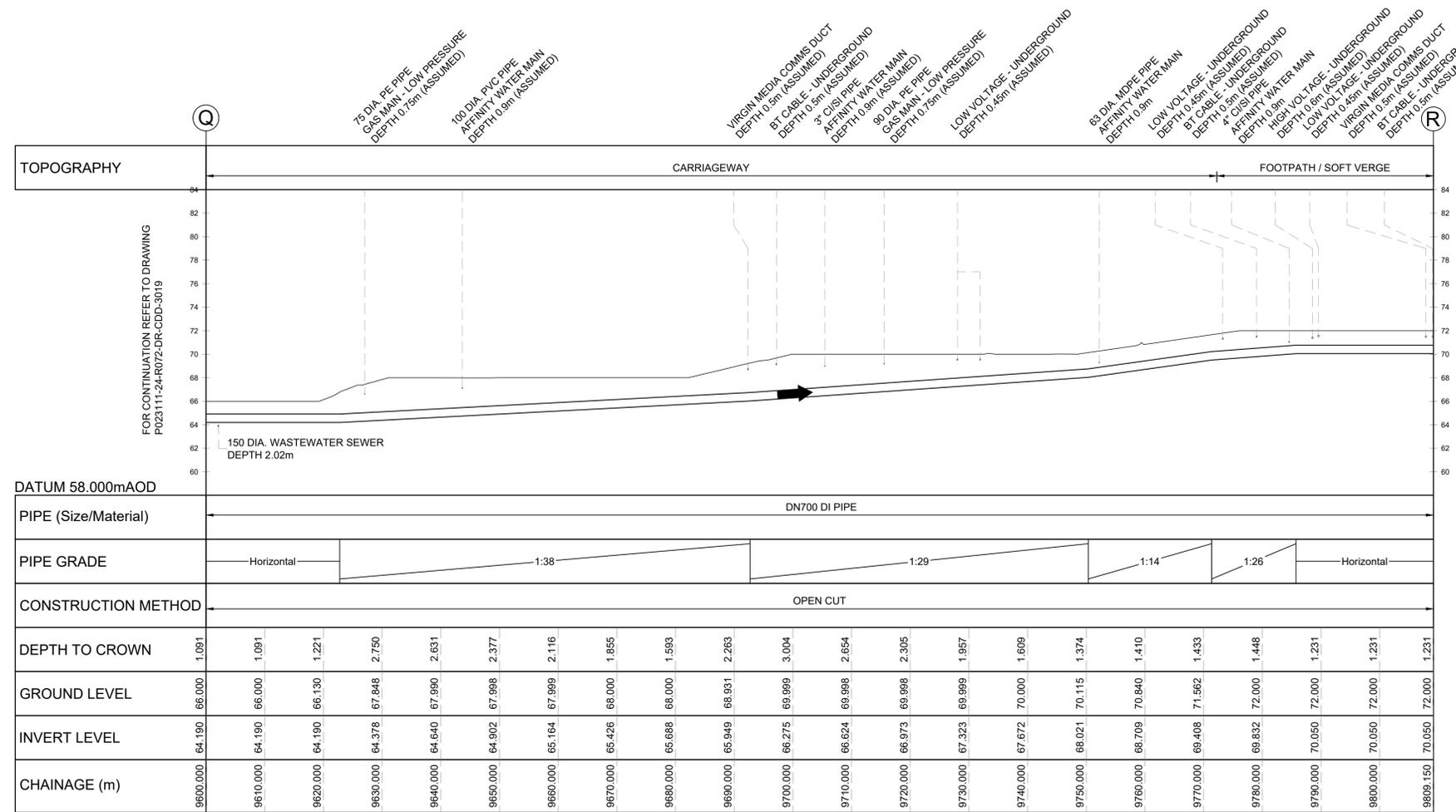
- ALL DIMENSIONS IN MILLIMETRES AND ALL LEVELS IN METRES UNLESS SHOWN OTHERWISE.
- SERVICE LOCATIONS EXTRACTED FROM THIRD PARTY UTILITY RECORDS AND SHOWN FOR INFORMATION ONLY; WILL REQUIRE FURTHER VALIDATION BEFORE CONSTRUCTION.
- WHERE UTILITY DEPTH IS NOT KNOWN, A DEPTH HAS BEEN ASSUMED BASED ON HSG47 (THIRD EDITION).
- ONLY SIGNIFICANT UTILITY CROSSINGS SHOWN ON LONG SECTION.
- GROUND LEVEL INFORMATION HAS BEEN TAKEN FROM LIDAR DATA AND ITS ACCURACY HAS NOT BEEN VERIFIED.
- SEWER DEPTHS ARE TAKEN FROM AVAILABLE GIS DATA FROM THAMES WATER. WHERE DEPTH DATA IS NOT AVAILABLE, THESE HAVE BEEN ASSUMED TO BE 2.5m DEPTH TO PIPE CROWN.

**LEGEND**

- NEW DN700 DI SELF RESTRAINED PIPE
- FLOW DIRECTION
- AFFINITY WATER MAIN
- GAS MAIN - LOW PRESSURE
- GAS MAIN - MEDIUM PRESSURE
- WASTEWATER SEWER
- WASTEWATER SEWER MANHOLE
- COMMUNICATION / FIBRE DUCTS - UNDERGROUND
- ELECTRICITY - UNDERGROUND
- HIGH VOLTAGE ELECTRICITY - UNDERGROUND
- LOW VOLTAGE ELECTRICITY - UNDERGROUND
- EXTRA HIGH VOLTAGE ELECTRICITY - UNDERGROUND
- EXTRA HIGH VOLTAGE ELECTRICITY - OVERHEAD
- BT CABLE - UNDERGROUND
- BT CABLE - OVERHEAD

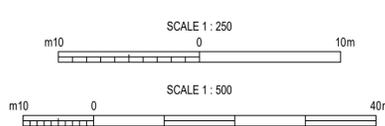
**REFERENCES**

- P023111-24-R072-DR-CDD-3019 PIPELINE PLAN AND PROFILE SHEET 16 OF 17
- P023111-24-R072-DR-CDD-3021 PIPELINE PLAN AND PROFILE SHEET LAYOUT PLAN



**PIPELINE PROFILE**  
 (HORIZONTAL SCALE 1:500, VERTICAL SCALE 1:250)

**STANTEC DRAWING NUMBER**  
 331101845/01/C/0020



Rev	Description	Drawn	Check	Approve	Date
P01	FOR INFORMATION ONLY	ARM	LB	DR	25.02.25

"P" Preliminary "T" Tender "C" Construction "R" Record



Affinity Water Limited  
 Tamblin Way  
 Hatfield  
 Herts. AL10 9EZ

Site: **TRUNK MAIN**

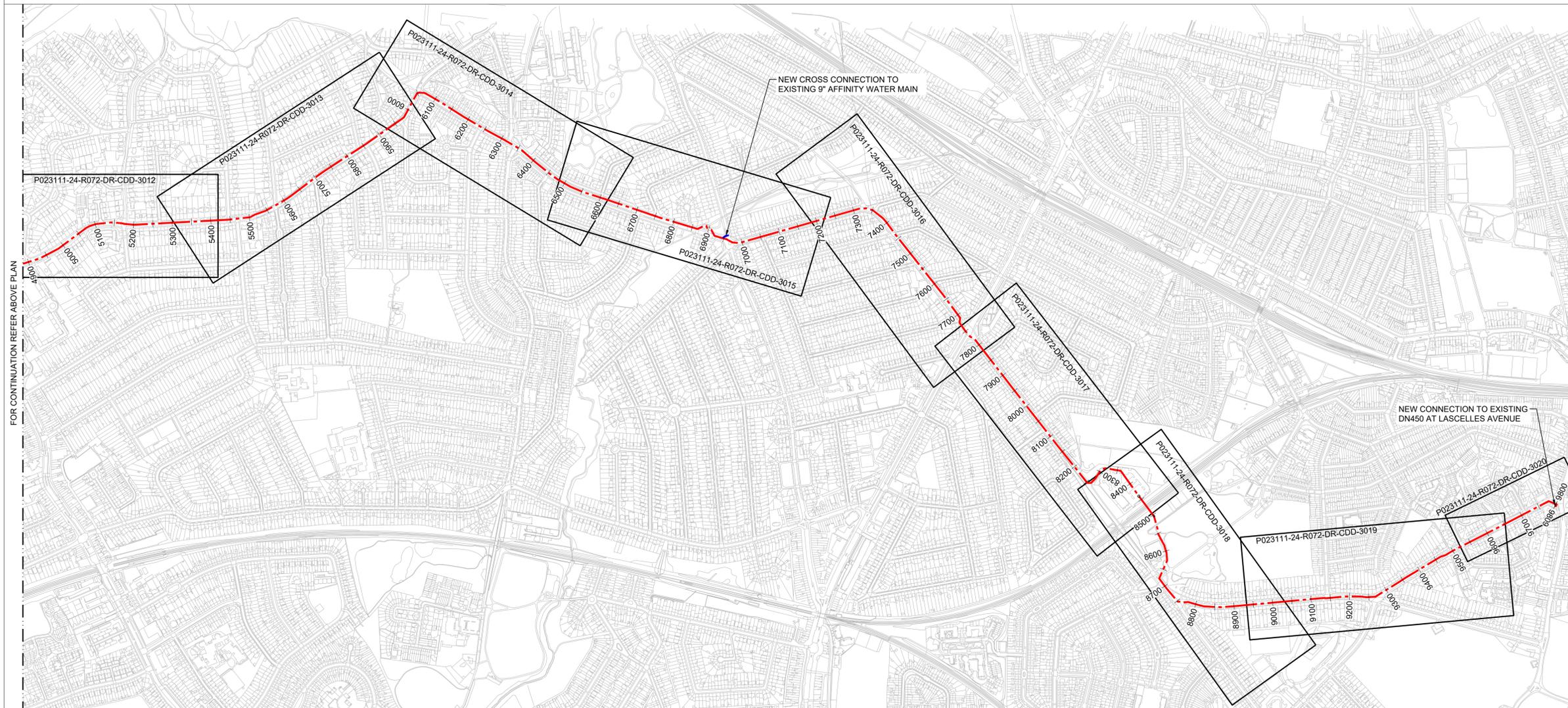
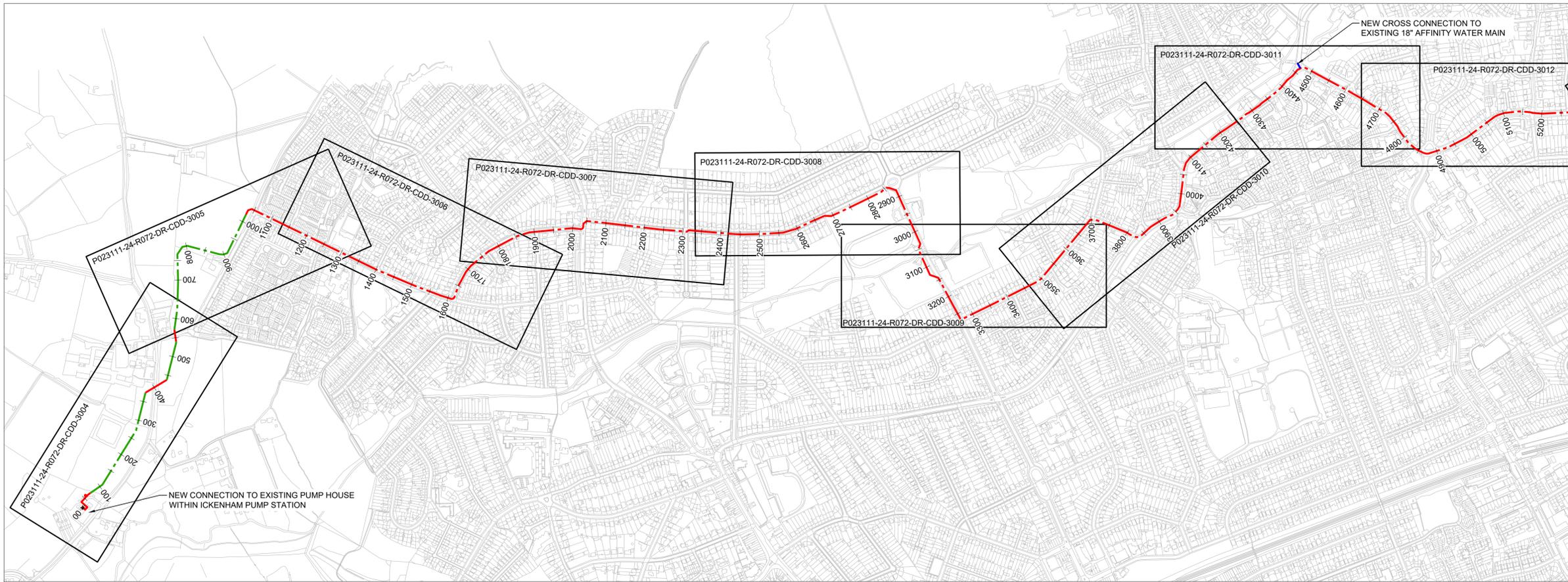
Project: **C-04113 ICKENHAM-HARROW TRUNK MAIN**

Title: **PIPELINE PLAN AND PROFILE SHEET 17 OF 17**

Job No:	Sheet Size:	A1	Scale:	AS SHOWN
Drawn: ARM	Checked By: LB	Approved By: DR		

Sheet 17 of 17 | Dos Location: TBC

Drawing No: **P023111-24-R072-DR-CDD-3020** | Rev: **P01**



DO NOT SCALE - IF IN DOUBT ASK



**NOTES**

- ALL DIMENSIONS IN MILLIMETRES AND ALL LEVELS IN METRES UNLESS SHOWN OTHERWISE.

**LEGEND**

- NEW PE100 DN800 SDR17 PIPE
- NEW DN700 DI SELF RESTRAINED PIPE
- NEW CROSS CONNECTION TO EXISTING AFFINITY WATER MAINS
- FLOW DIRECTION

**REFERENCES**

- P023111-24-R072-DR-CDD-3004 PIPELINE PLAN AND PROFILE SHEET 01 OF 17
- P023111-24-R072-DR-CDD-3005 PIPELINE PLAN AND PROFILE SHEET 02 OF 17
- P023111-24-R072-DR-CDD-3006 PIPELINE PLAN AND PROFILE SHEET 03 OF 17
- P023111-24-R072-DR-CDD-3007 PIPELINE PLAN AND PROFILE SHEET 04 OF 17
- P023111-24-R072-DR-CDD-3008 PIPELINE PLAN AND PROFILE SHEET 05 OF 17
- P023111-24-R072-DR-CDD-3009 PIPELINE PLAN AND PROFILE SHEET 06 OF 17
- P023111-24-R072-DR-CDD-3010 PIPELINE PLAN AND PROFILE SHEET 07 OF 17
- P023111-24-R072-DR-CDD-3011 PIPELINE PLAN AND PROFILE SHEET 08 OF 11
- P023111-24-R072-DR-CDD-3012 PIPELINE PLAN AND PROFILE SHEET 09 OF 17
- P023111-24-R072-DR-CDD-3013 PIPELINE PLAN AND PROFILE SHEET 10 OF 17
- P023111-24-R072-DR-CDD-3014 PIPELINE PLAN AND PROFILE SHEET 11 OF 17
- P023111-24-R072-DR-CDD-3015 PIPELINE PLAN AND PROFILE SHEET 12 OF 17
- P023111-24-R072-DR-CDD-3016 PIPELINE PLAN AND PROFILE SHEET 13 OF 17
- P023111-24-R072-DR-CDD-3017 PIPELINE PLAN AND PROFILE SHEET 14 OF 17
- P023111-24-R072-DR-CDD-3018 PIPELINE PLAN AND PROFILE SHEET 15 OF 17
- P023111-24-R072-DR-CDD-3019 PIPELINE PLAN AND PROFILE SHEET 16 OF 17
- P023111-24-R072-DR-CDD-3020 PIPELINE PLAN AND PROFILE SHEET 17 OF 17

STANTEC DRAWING NUMBER  
331101845/01/C/0021

Rev	Description	Drawn	Check	Approve	Date
P01	FOR INFORMATION ONLY	HAS	LB	DR	25.02.25

"P" Preliminary "T" Tender "C" Construction "R" Record



Affinity Water Limited  
Tomblin Way  
Hatfield  
Herts. AL10 9EZ

Site: **TRUNK MAIN**  
Project: **C-04113 ICKENHAM-HARROW TRUNK MAIN**  
Title: **PIPELINE PLAN AND PROFILE SHEET LAYOUT PLAN**

Job No:	TBC	Sheet Size:	A1	Scale:	NTS
Drawn:	HAS	Checked By:	LB	Approved By:	DR
Sheet 1 of 1		Doc Location:	TBC		

Drawing No: **P023111-24-R072-DR-CDD-3021** Rev: **P01**