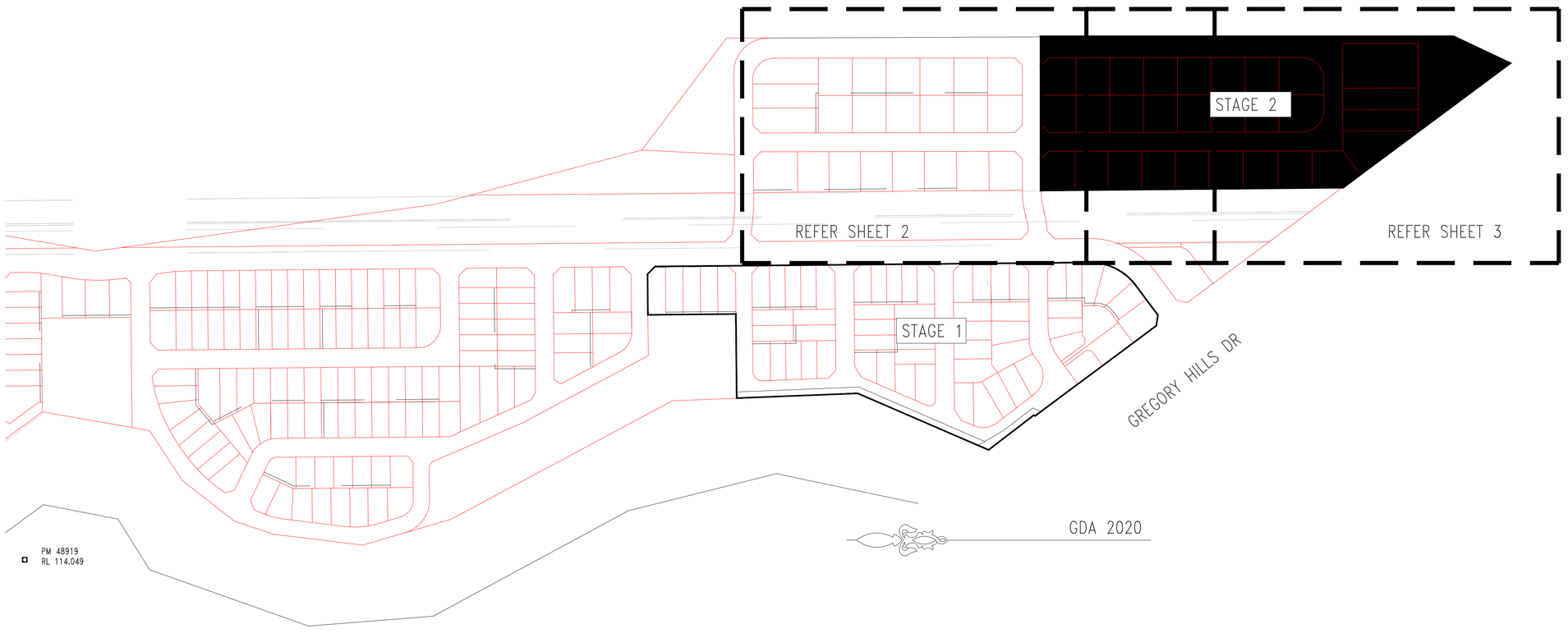
A1

DEVELOPER CONTRACT PLAN
STAGE 2
WORK-AS-CONSTRUCTED



0 10 20 30 40 50 METRES

NOTES :-

1. DESIGNER & WATER SERVICE COORDINATOR:

   RMA INFRASTRUCTURE PTY LTD
   PO BOX 273 PENRITH NSW 2751
   PH. 47222774. REFERENCE No. W-12404

   FOR:

   LEGACY PROPERTY SERVICES PTY LTD
   LEVEL 45, 25 MARTIN PLACE,
   SYDNEY NSW 2000
   02 9252 1111

2. THE WORKS AND MATERIAL WERE CONSTRUCTED IN ACCORDANCE WITH THE SEWER RETICULATION CODE OF AUSTRALIA (WSA 02-2002-2.2 VERSION 4) AND SYDNEY WATER TECHNICAL SPECIFICATION (CIVIL) Ver.10.
3. ALL LOTS WERE VACANT AT TIME OF SURVEY.
4. ALL STRUCTURES CONSTRUCTED TO FINISHED SURFACE LEVELS. ALL LEVELS QUOTED ON THIS PLAN REFER TO PROPOSED FINISHED SURFACE LEVELS. IT WAS THE CONTRACTORS RESPONSIBILITY TO LIAISE WITH THE CIVIL CONTRACTOR TO VERIFY THE PROPOSED SURFACE LEVELS QUOTED ON THIS PLAN WERE CORRECT PRIOR TO INSTALLING SEWER STRUCTURES. IF ANY DISCREPANCIES WERE FOUND, THE WATER SERVICING COORDINATOR WAS NOTIFIED IMMEDIATELY.
5. PIPES CONCRETE ENCASED SHOWN ACCORDINGLY:

   EACH SECTION OF PIPE CONCRETE ENCASED IN THE FOLLOWING MANNER :

   - EACH FLEXIBLE PIPE JOINT REQUIRES A 12mm THICK COMPRESSIBLE MEMBRANE INSERTED.
   - AT THE ENDS OF EACH SECTION OF ENCASEMENT A 600mm ROCKER PIPE INSTALLED.
   - CONCRETE ENCASEMENT TYPE 12U AS PER SEW-1205 Ver3 (2016)

6. AREAS HATCHED THUS NOT DRAINED:
7. CURRENT SERVICES SEARCH & SITE CHECK OF ALL EXISTING SERVICES NECESSARY PRIOR TO THE COMMENCEMENT OF WORK & APPROPRIATE PROCEDURES, PRECAUTIONS AND CARE TAKEN BY THE CONSTRUCTOR WHEN WORKING IN CLOSE PROXIMITY TO SERVICES. THE CONSTRUCTOR WAS TO VERIFY THE EXACT LOCATION OF ALL EXISTING SERVICES DURING CONSTRUCTION AND ANY DAMAGE TO EXISTING SERVICES WAS RECTIFIED AT THE CONSTRUCTORS EXPENSE.
8. FIELD COMPACTION TESTS REQUIRED UNDERTAKEN TO SATISFY THE SEWAGE CODE OF AUSTRALIA SYDNEY WATER EDITION 1 – VERSION 4 (WSA 02-2002-2.2 VERSION 4) & SYDNEY WATER TECHNICAL SPECIFICATION CIVIL v 10. IT WAS THE LISTED FIELD TESTERS RESPONSIBILITY TO ENSURE THE CORRECT NUMBER OF TESTS WERE CARRIED OUT TO SATISFY THE STANDARDS AND SPECIFICATIONS AS PER INSTRUCTIONS TO FIELD TESTERS CLAUSE 3. COMPACTION TEST = 24 TESTS TOTAL.
9. JUNCTION AND CONCRETE ENCASEMENT LOCATIONS WERE SHOWN AS APPROXIMATE ONLY. IT WAS THE CONSTRUCTORS RESPONSIBILITY TO LIAISE WITH CIVIL CONTRACTOR TO CONFIRM EXACT LOCATIONS REQUIRED. THE CONSTRUCTOR WAS RESPONSIBLE TO KEEP AN ACCURATE RECORD OF JUNCTION AND CONCRETE ENCASEMENT CHAINAGES DURING CONSTRUCTION. CHAINAGES WERE PROVIDED TO THE DESIGNER AT THE COMPLETION OF CONSTRUCTION.
10. PROPERTY CONNECTIONS (PCS) INSTALLED IN ACCORDANCE WITH SEWERAGE CODE OF AUSTRALIA WSA 02-2002-2.2
    - PCS DN100 UNLESS NOTED OTHERWISE.
    - PCS CONFIGURATION BASED ON RETICULATION DEPTH PROPERTY SIZE & TOPOGRAPHY

    DENOTES STANDARD PCS CONNECTION – SEW-1151-S 12.
11. ALL MAINTENANCE CHAMBERS REHAU/PLEX OR EQUIVALENT TYPE MANUFACTURED WITH PRE DESIGNED ANGLE WITH MINIMUM 600MM RISER.
12. MAINTENANCE HOLES CONSTRUCTED IN ACCORDANCE WITH SYDNEY WATER DEEMED TO COMPLY DRAWINGS DTC 2000, DTC 2200 DTC 2203, DTC 2220, DTC 2221, DTC 2222, DTC 2223 AND AS SPECIFIED IN WSA 02-2002-2.2
13. THE CONTRACTOR WAS TO CONFIRM THE LOCATION AND INVERT LEVELS OF THE EXISTING SEWER AT CHAINAGE 0.00 OF LINE 1 PRIOR TO COMMENCEMENT OF WORKS. ANY DISCREPANCIES WERE DETERMINED BETWEEN WHAT WAS LOCATED ON SITE AND WHAT WAS QUOTED ON THIS PLAN, THE DESIGNER WAS NOTIFIED IMMEDIATELY.
14. DENOTES LOT 231 & LOT 232 SERVICED UNDER CN211074WW.

PLAN DRAWN DATE: 03.02.26 VERSION: I SHEET 1 OF 5 SHEETS

LOCALITY & BENCHMARK PLAN

ENVIRONMENTAL REQUIREMENTS.

E1. THE REVIEW OF ENVIRONMENTAL FACTORS WAS AN INTEGRAL PART OF THIS DESIGN. ALL EROSION AND SEDIMENTATION CONTROL COMPLIED TO THE STANDARDS OF THE SOIL CONSERVATION SERVICE OF N.S.W

E2. ALL OPEN STORM WATER GRATES & STORM WATER CHANNELS DOWNSTREAM OF CONSTRUCTION ACTIVITY ADEQUATELY PROTECTED BY STRAW BALES OR GEOTEXTILE FENCE.

E3. SILT STOP DEVICES INSTALLED PRIOR TO ANY CONSTRUCTION ACTIVITY, EFFECTIVELY MAINTAINED AND REMOVED ONLY AFTER THE AREA HAS BEEN SATISFACTORILY RE – VEGETATED.

E4. SILTATION CONTROL CARRIED OUT TO THE SATISFACTION OF THE SITE SUPERINTENDENT.

E5. ALL STOCKPILES OF EXCAVATED MATERIAL SURROUNDED BY STRAW BALES AND/OR GEOTEXTILE FENCE TO THE SATISFACTION OF THE SUPERINTENDENT.

E6. SITE RESTORATION CARRIED OUT TO THE SATISFACTION OF THE SUPERINTENDENT.

E7. NO TREES OR VEGETATION REMOVED WITHOUT PRIOR APPROVAL FROM THE SUPERINTENDENT AND OR LOCAL GOVERNMENT AUTHORITY.

DTC DRAWING SCHEDULE		
DRAWING	REVISION	DATE
2000	D	31/07/2024
2200	G	31/07/2024
2201	F	31/07/2024
2203	C	31/07/2024
2220	E	31/07/2024
2221	D	31/07/2024
2222	D	31/07/2024
2223	C	31/07/2024
2224	A	31/07/2024

No.	AMENDMENT DESCRIPTION	BY	DATE
I	WORK-AS-CONSTRUCTED	A.M	03.02.26
H	AMENDMENTS TO MATCH LATEST CIVILS	SP	14.6.25
G	SWC COMMENTS ADDRESSED	SP	17.12.24
F	AMENDMENTS TO MATCH CURRENT CIVILS	SP	30.11.24
E	SWC COMMENTS & PROTECTION SLAB REMOVED	SP	13.09.24
D	PROTECTION SLAB ADDED FOR APA MAIN	SP	21.08.24
C	INCLUDED FURTHER BORE INFORMATION	BK	13.08.24
B	FOR SYDNEY WATER APPROVAL	SP	25.5.24
A	FIRST ISSUE – TENDER	SP	23.02.24

www.dialbeforeyoudig.com.au
DIAL 1100 BEFORE YOU DIG
1U
DIAL BEFORE YOU DIG SHOULD BE CONTACTED PRIOR TO ANY EXCAVATION ON SITE

GDA 2020

PLAN TO BE READ IN CONJUNCTION WITH CURRENT SYDNEY WATER STANDARDS
SYDNEY WATER CORPORATION

PRIOR TO COMMENCEMENT OF EXCAVATION FOR PROPOSED AND EXISTING SERVICES CONTACT :-

DIAL BEFORE YOU DIG	Ph. 1100
ELECTRICITY	Ph.
GAS	Ph.
TELECOMMUNICATIONS	Ph.
	Ph.

GIVING AT LEAST 48 HOURS NOTICE.

UTILITIES

TYPE	DATE	REF.	TYPE	DATE	REF.
PROP STORMWATER: SWD — — — SWD	28.03.25				

WORK AS CONSTRUCTED CERTIFICATION

DEVELOPER LEGACY PROPERTY SERVICES PTY LTD
WATER SERVICE CO-ORDINATOR RMA INFRASTRUCTURE PTY LTD
CONSTRUCTOR ADAM CHRISTOFIDES PLUMBING
COMPLETED 03.02.26 W.A.C. PREPARED 03.02.26

DESIGNER RMA INFRASTRUCTURE PTY LTD

I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS.

PIPE SCHEDULE

SIZE DN	TYPE	CLASS	LENGTH	PIPE JOINING METHOD / NOTES
150	U.P.V.C.	SN8	1141.64	S.W.J
355	STEEL	5PL	67.32	BORE SLEEVE

DESIGN HEAD m

NO BOUNDARY TRAPS REQUIRED.

AUSTRALIAN HEIGHT DATUM

SCALES

PLAN 1:500 SECTION HOR. 1:500 VERT. 1:125

CROSS SECTIONS — NATURAL

LENGTHS, DEPTHS & LEVELS ARE IN METRES.

NO AMENDMENTS ARE TO BE MADE TO THIS PLAN WITHOUT REFERENCE TO SYDNEY WATER. THIS PLAN IS NOT NECESSARILY UP TO DATE OR CORRECT AND SYDNEY WATER ACCEPTS NO RESPONSIBILITY.

U.B. DIRECTORY MAP 326 REF: A2 UBD 41st

SHEET 1 OF 5 File No. N/A

Sydney WATER SYDNEY WATER CORPORATION

Case No. 211075WW

CAMDEN SEWERAGE
DRAINS TO
WIANAMATTA CARR. & SPS 1156
WEST CAMDEN S.T.P.

A1F

0 10 20 30 40 50 METRES

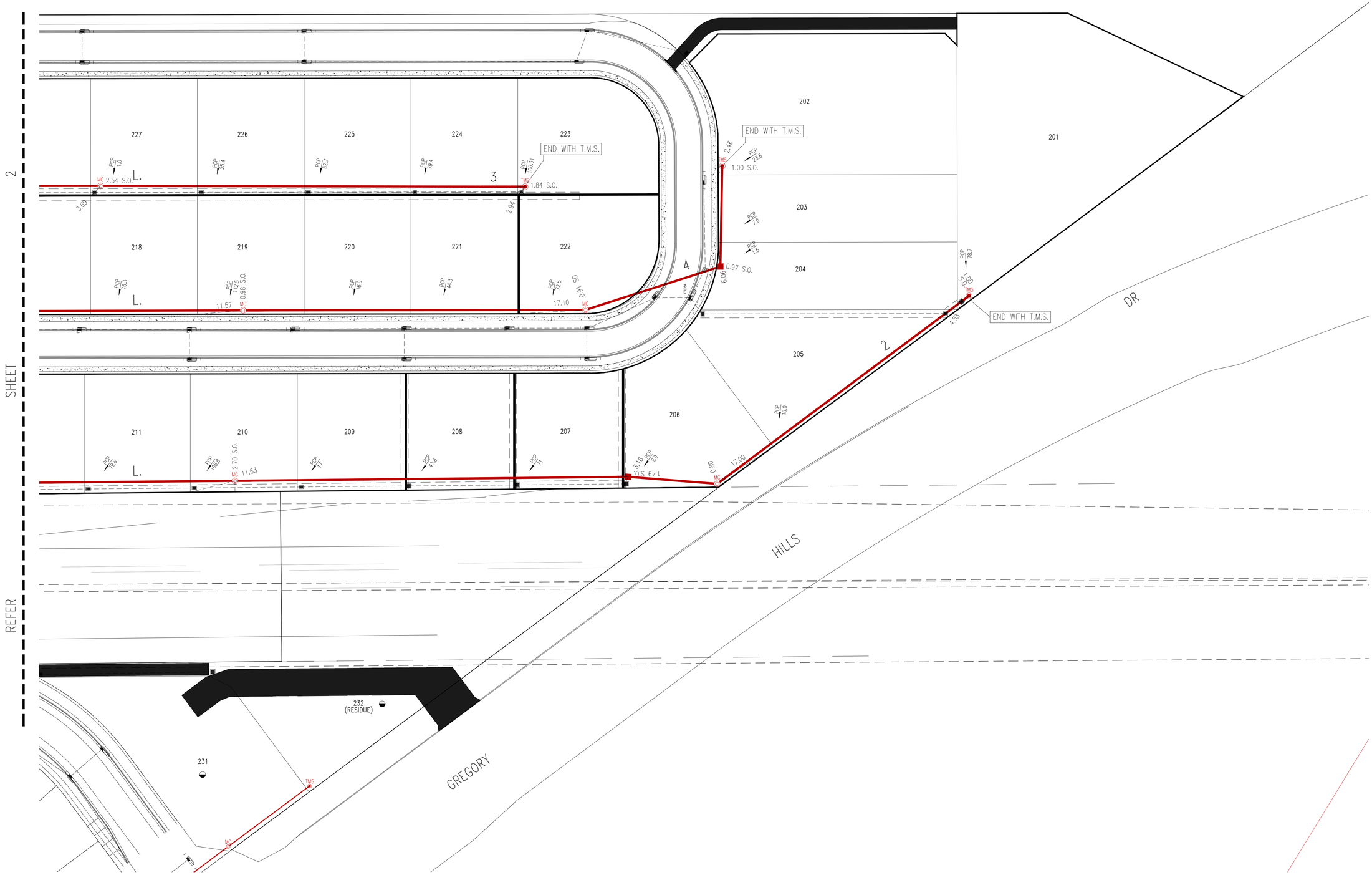
DEVELOPER CONTRACT PLAN
WORK-AS-CONSTRUCTED

PROP.
RD
PROP.
RD
PROP.
RD

A1F

0 10 20 30 40 50 METRES

DEVELOPER CONTRACT PLAN
WORK-AS-CONSTRUCTED



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W.S.C.	RMA INFRASTRUCTURE PTY LTD
CONSTRUCTOR	ADAM CHRISTOFIDES PLUMBING
COMPLETED	03.02.26
W.A.C. PREPARED	03.02.26
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SYDNEY WATER CORPORATION

Case No. 211075WW | SHT 2 OF 5 SHTS.

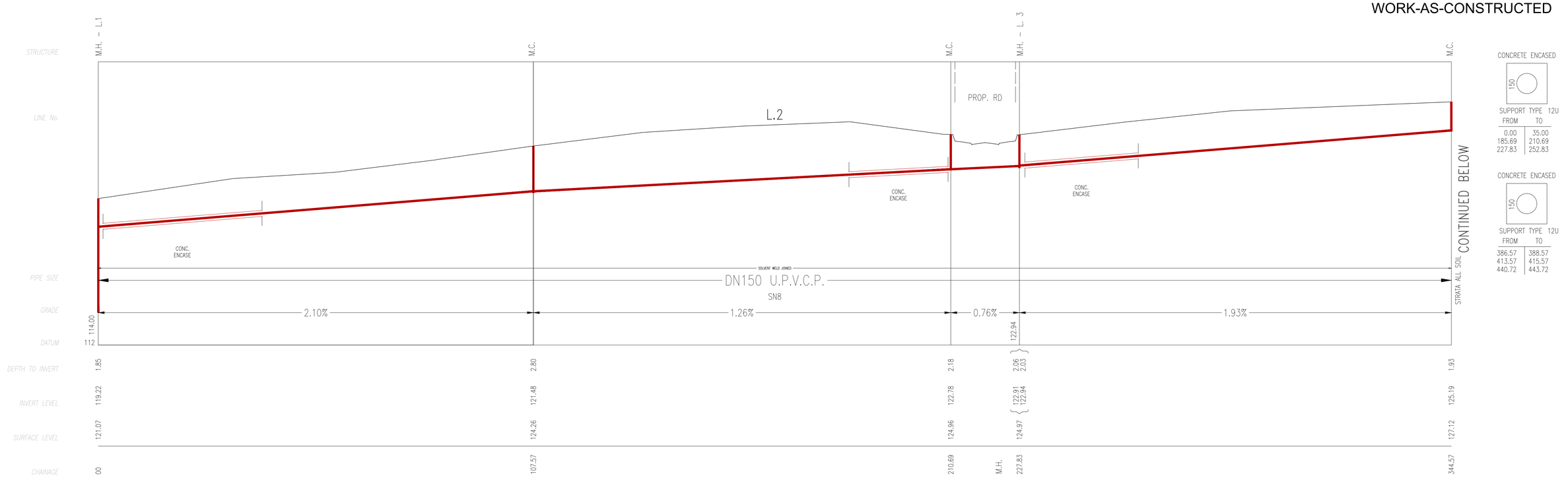
SYDNEY WATER CORPORATION

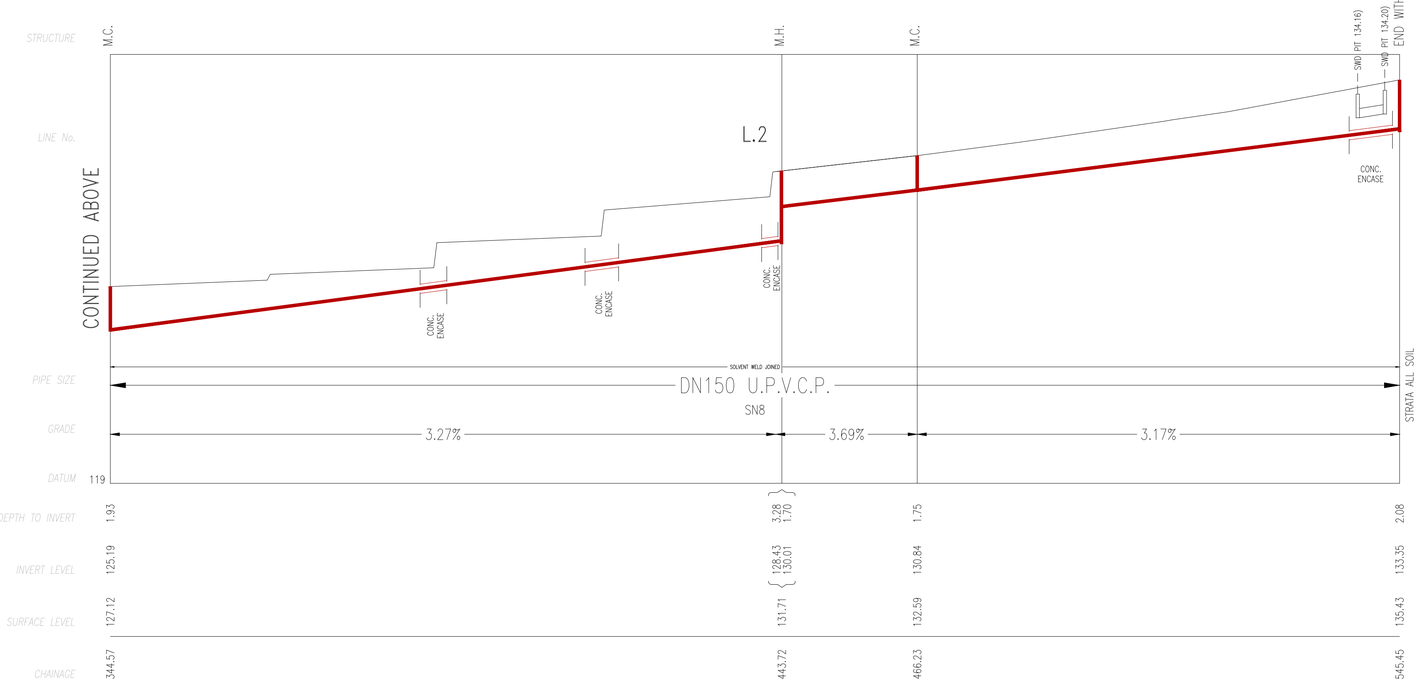
FOR DETAILS OF SERVICES SEE SHEET 1

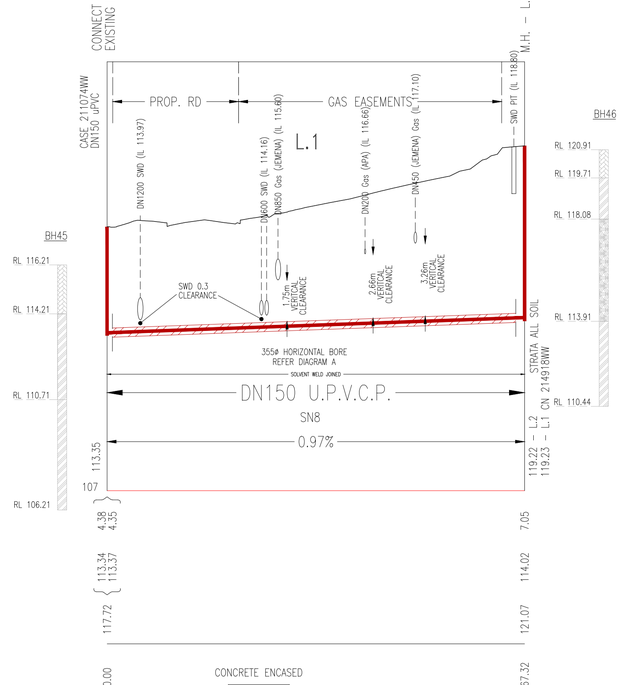
PLAN DRAWN DATE: 03.02.26 VERSION: I SHEET 3 OF 5 SHEETS

A1F

DEVELOPER CONTRACT PLAN
WORK-AS-CONSTRUCTED







STRATA LEGEND

- FILL
- SILTY CLAY
- SILTSTONE
- SANDSTONE

FOR DETAILED STRATA INFORMATION REFER TO GEOTECHNICAL REPORT BY GEOTECHNIQUE PTY LTD JOB NO. 20576/1 – 6th AUGUST 2024 BOREHOLES No. BH46 & BH45

APA GENERAL REQUIREMENTS

- PLEASE NOTE THAT ALL WORKS CONDUCTED IN COMPLIANCE WITH APA REQUIREMENTS AND STANDARD DOCUMENTATION INCLUDING STANDARD DRAWINGS
- ALL WORKS COMPLIED TO APA DOCUMENT 580-POL-L-0001 REV.4 STANDARD CONDITIONS FOR WORKS NEAR APA GROUP GAS TRANSMISSION PIPELINES
- EXCAVATION ABOVE THE GAS PIPELINE CONDUCTED PER APA PROCEDURE 320-PR-OM-0067 REV.3
- NO VIBRATION WORKS WITHIN 3M OF GAS TRANSMISSION PIPELINE
- NO BOLLARD POSTS WITHIN 1.5M OF GAS TRANSMISSION PIPELINE

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COMPLETED	03.02.26
W.A.C. PREPARED	03.02.26
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SYDNEY WATER CORPORATION

Case No. 211075WW | SHT 4 OF 5 SHTS.

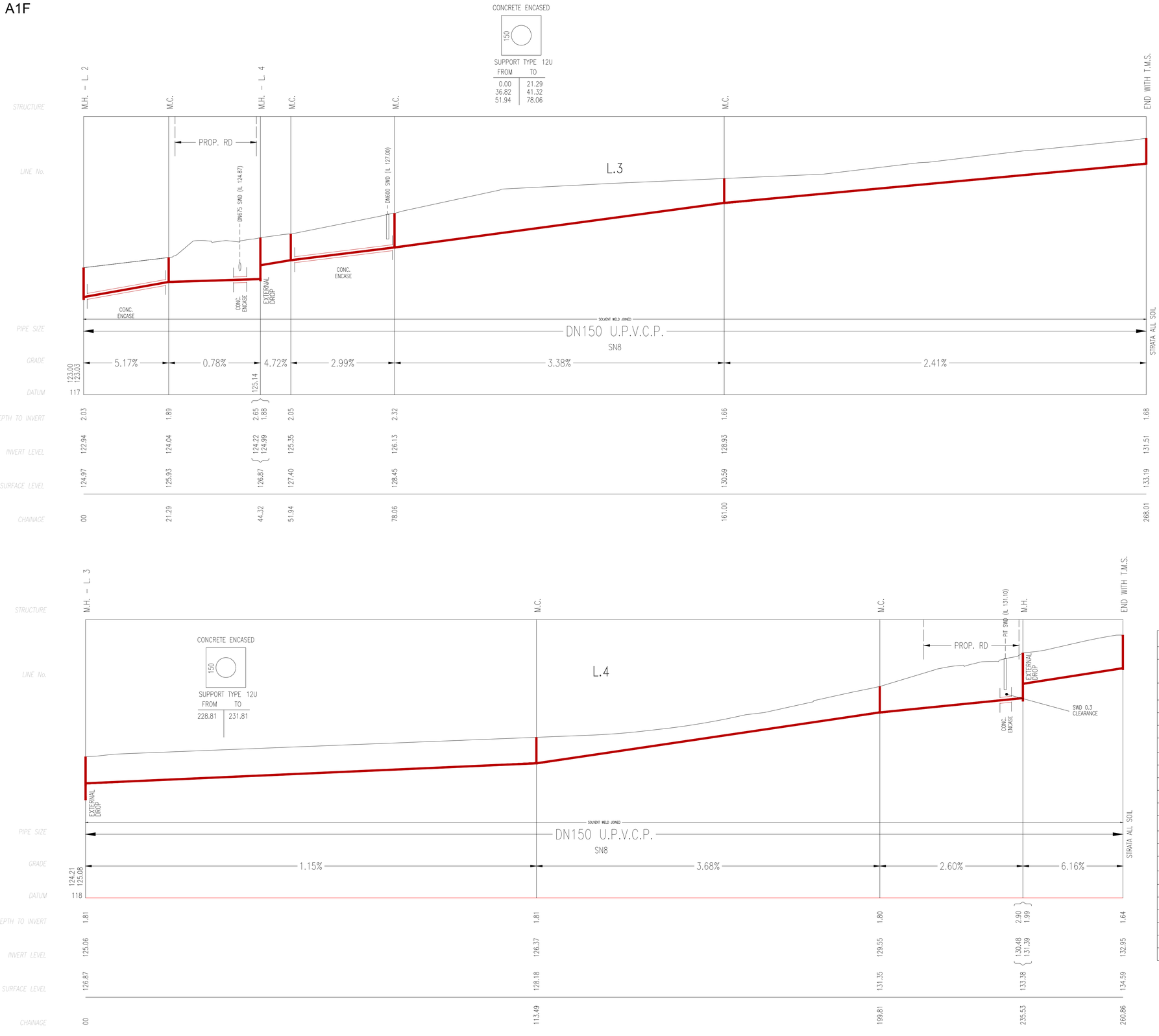
SYDNEY WATER CORPORATION

FOR DETAILS OF SERVICES SEE SHEET 1

PLAN DRAWN DATE: 03.02.26 VERSION: 1 SHEET 4 OF 5 SHEETS

A1F

DEVELOPER CONTRACT PLAN
WORK-AS-CONSTRUCTED



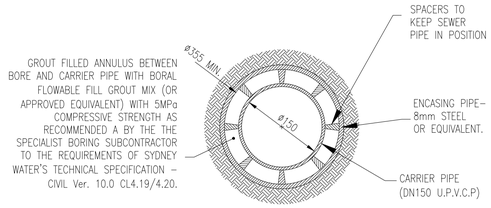


DIAGRAM A – TYPICAL ENCASING PIPE DN150

SCALE N.T.S

TRENCHLESS CONSTRUCTION NOTES:

THE CONTRACTOR FURNISH ALL LABOUR, PLANT, MATERIAL, TOOLS & EQUIPMENT TO COMPLETE THE TRENCHLESS INSTALLATION THROUGH ALL CLASS OF MATERIALS.
THE CONTRACTOR FAMILIAR WITH THE GEOTECHNICAL REPORT. ANY GAPS OR DEFICIENCY IN THE GEOTECHNICAL INFORMATION REQUIRED BY THE CONTRACTOR INVESTIGATED AT THEIR OWN COST.
THE CONTRACTOR FOR ALL CONSUMABLES WHICH REQUIRED TO SUCCESSFULLY COMPLETE THE BORE SUCH AS DRILLING FLUIDS, BENTONITE SLURRY, PIPE SLEEVES, PIPE SPACERS AND GROUT, ETC.
THE CONTRACTOR FOR THE DISPOSAL OF ALL SPOIL RELATED TO THE TRENCHLESS CONSTRUCTION.
NO VARIATIONS ALLOWED FOR UNFORESEEN WORK THROUGH FAILURE TO ADPOT THE ABOVE PRECAUTIONS.

1.1 SUBMITTALS
PRIOR TO COMMENCING ANY WORK, THE CONTRACTOR SUBMIT A CLEAR & DETAILED STATEMENT FOR THE EXECUTION OF THE TRENCHLESS PIPE INSTALLATION TO THE WSC. THE SUBMISSION INCLUDED BUT NOT LIMITED TO THE FOLLOWING:

a) COMPLETED TRENCHLESS CONSTRUCTION METHODOLOGY, INCLUDING SPECIFICATION ON THE PROPOSED MACHINERY THAT USED, ALIGNMENT CONTROLS & SEQUENCE OF OPERATION
b) SAFETY MANAGEMENT PLAN
c) QUALITY MANAGEMENT PLAN
d) STATEMENT OF CAPABILITY THAT THE PROPOSED EQUIPMENT AND METHODOLOGY CAPABLE OF ACHIEVING THE TOLERANCES IN LINE AND LEVEL AS SPECIFIED
e) SCHEDULE OF WORK
f) GROUND MONITORING EQUIPMENT AND METHODS (IF APPLICABLE)
g) DRAWING OF THE WORK SITE, INCLUDING LOCATION & FOOTPRINT OF EQUIPMENT, BORING PITS & SLURRY CONTAINMENT PITS
h) METHOD OF SPOIL/SLURRY/DRILLING FLUIDS, TRANSPORTATION FROM CUT FACE, NATURE OF HAULAGE EQUIPMENT & DISPOSAL
i) CONTINGENCY PLANS DETAILING HOW STOPPAGES DUE TO OBSTRUCTIONS OR LOSS OF GROUND DEALT WITH.

1.2 PERFORMANCE REQUIREMENTS

a) THE CONTRACTOR PROVIDED AT LEAST ONE SELF CONTAINED BORING RIG IN GOOD OPERATING CONDITION, WITH SUFFICIENT TORQUE & POWER NECESSARY TO COMPLETE THE WORKS IN A SATISFACTORY MANNER
b) THE CONTRACTOR PROVIDED DETAILS OF ALL BENTONITE INJECTION OPERATIONS (IF REQUIRED)
c) DEWATERING NOT PERMITTED DURING TRENCHLESS INSTALLATION, BUT IF REQUIRED MAYBE PERMITTED FOR CONSTRUCTION OF ACCESS/RECOVERY SHAFTS.
d) THE CONTRACTOR ENSURE PIPES ARE INSTALLED INTO PLACE WITHOUT DAMAGING THE PIPE JOINTS
e) THE CONTRACTOR ENSURE DIRECTIONAL CONTROL OF THE BORE/AUGER HEAD IS MAINTAINED AT ALL TIMES.

1.3 OBSTRUCTION AND LOSS OF GROUND

a) IF STOPPAGE IN THE FORWARD PROGRESS OF THE WORKS IS ENCOUNTERED, THE CAUSE DETERMINED BY THE CONTRACTOR. THE INSTALLATION METHOD MODIFIED TO BEST SUIT THE ACTUAL CONDITIONS ENCOUNTERED. THE CONTRACTOR FOR ALL NECESSARY MATERIALS & EQUIPMENT REQUIRED TO MAINTAIN PROGRESS.
b) SHOULD APPRECIABLE LOSS OF GROUND OCCUR DURING THE TRENCHLESS OPERATION, ALL VOIDS BACKPACKED PROMPTLY TO THE EXTENT PRACTICABLE WITH SOIL CEMENT CONSISTING OF A SLIGHTLY MOISTENED MIXTURE COMPRISING ONE PART CEMENT TO FIVE PARTS GRANULATED MATERIALS. WHERE THE SOIL WAS NOT SUITABLE FOR THIS PURPOSE, THE CONTRACTOR FOR IMPORTING OF SUITABLE MATERIAL AS REQUIRED.

1.4 RESPONSIBILITY FOR FINAL TRENCHLESS DESIGN & CONSTRUCTION

a) THE CONTRACTOR INDEPENDENTLY EVALUATE THE FEASIBILITY OF THE PROPOSED TRENCHLESS INSTALLATION AND CONFIRM SUITABILITY OF EQUIPMENT & CONSTRUCTION PROCEDURES IN RELATION TO THE ACTUAL SITE TOPOGRAPHY, SOIL & GROUNDWATER CONDITIONS, EXISTING SITE CONSTRAINTS AND OTHER RELEVANT FEATURES. THE CONTRACTOR CONFIRM THE PROPOSED CARRIER PIPE, SLEEVE PIPE & GROUT MIX AS DOCUMENTED ON THE DESIGN DRAWINGS WERE SUITABLE FOR INSTALLATION IN ACCORDANCE WITH THEIR PROPOSED METHODOLOGY. WHERE A VARIATION TO THIS BORE METHODOLOGY IS REQUIRED, THE CONTRACTOR RESPONSIBLE FOR THE FINAL DESIGN OF THE TRENCHLESS INSTALLATION & SHALL PROVIDE ALL NECESSARY DOCUMENTATION TO THE WSC FOR APPROVAL PRIOR TO THE COMMENCEMENT OF ANY WORKS.
b) GROUTING PRESSURES CAREFULLY MONITORED TO ENSURE THE CARRIER PIPE DID NOT BUCKLE DURING GROUTING OPERATIONS. CONTRACTOR TO FILL THE CARRIER PIPE WITH WATER WHERE THE REQUIRED GROUTING PRESSURE EXCEEDS 504kPa. GROUTING VOLUMES RECORDED TO CONFIRM THE INNER ANNULUS VOLUME IS MET.

MAINTENANCE STRUCTURE SCHEDULE

LINE	CHAINAGE	TYPE	CLASS OF COVER	DESIGN COMMENTS	SETOUT INFORMATION
L.1	0.00	M.H.	–	EXISTING	–
L.1	67.32	M.H.	B	DTC 2200 – ISSUE F 18.03.15	TIES ON PLAN
L.2	0.00	M.H.	B	DTC 2200 – ISSUE F 18.03.15	TIES ON PLAN
L.2	107.57	M.C.	B	REHAU or IPLEX MIN. DN600 RISER	TIES ON PLAN
L.2	210.69	M.C.	B	REHAU or IPLEX MIN. DN600 RISER	TIES ON PLAN
L.2	227.83	M.H.	B	DTC 2203 – ISSUE B 18.03.15	TIES ON PLAN
L.2	344.57	M.C.	B	REHAU or IPLEX MIN. DN600 RISER	TIES ON PLAN
L.2	443.72	M.H.	B	DTC 2203 – ISSUE B 18.03.15	TIES ON PLAN
L.2	466.23	M.C.	B	REHAU or IPLEX MIN. DN600 RISER	TIES ON PLAN
L.2	545.45	T.M.S.	B	AYMROO OR EQUIV.	TIES ON PLAN
L.3	0.00	M.H.	B	DTC 2203 – ISSUE B 18.03.15	TIES ON PLAN
L.3	21.29	M.C.	B	REHAU or IPLEX MIN. DN600 RISER	TIES ON PLAN
L.3	44.32	M.H.	B	DTC 2203 – ISSUE B 18.03.15	TIES ON PLAN
L.3	51.49	M.C.	B	REHAU or IPLEX MIN. DN600 RISER	TIES ON PLAN
L.3	78.06	M.C.	B	REHAU or IPLEX MIN. DN600 RISER	TIES ON PLAN
L.3	161.00	M.C.	B	REHAU or IPLEX MIN. DN600 RISER	TIES ON PLAN
L.3	268.01	T.M.S.	B	AYMROO OR EQUIV.	TIES ON PLAN
L.4	0.00	M.H.	B	DTC 2203 – ISSUE B 18.03.15	TIES ON PLAN
L.4	113.49	M.C.	B	REHAU or IPLEX MIN. DN600 RISER	TIES ON PLAN
L.4	199.81	M.C.	B	REHAU or IPLEX MIN. DN600 RISER	TIES ON PLAN
L.4	235.53	M.H.	B	DTC 2203 – ISSUE B 18.03.15	TIES ON PLAN
L.4	260.86	T.M.S.	B	AYMROO OR EQUIV.	TIES ON PLAN

WORK AS CONSTRUCTED CERTIFICATION

DEVELOPER LEGACY PROPERTY SERVICES PTY LTD
W.S.C. RMA INFRASTRUCTURE PTY LTD
CONSTRUCTOR ADAM CHRISTOFIDES PLUMBING
COMPLETED 03.02.26
W.A.C. PREPARED 03.02.26

DESIGNER RMA INFRASTRUCTURE PTY LTD
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS

SYDNEY WATER CORPORATION

Case No. 211075WW | SHT 5 OF 5 SHTS.

SYDNEY WATER CORPORATION
FOR DETAILS OF SERVICES SEE SHEET 1

PLAN DRAWN DATE: 03.02.26 VERSION: 1 SHEET 5 OF 5 SHEETS