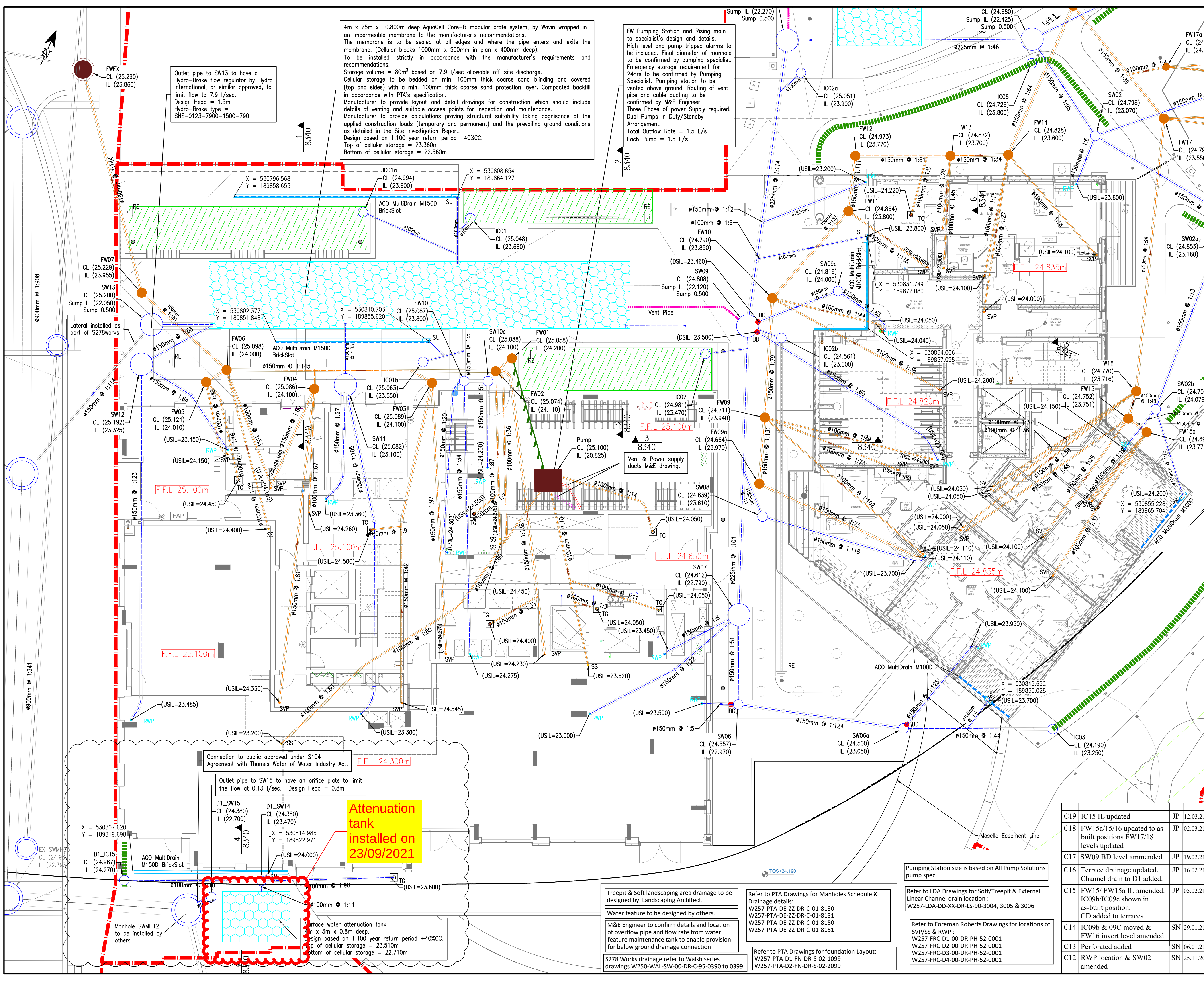




WORK ALLOCATION SHEET

Client Contractor: <u>GCL</u>		Location: <u>Wood Green</u>	
Project: <u>Attenuation tank</u>		Date: <u>23.9.21</u>	
Type of work undertaken			
Days Work	Repairs	Other	
<u>Work Achieved</u> <u>25m x 4m x 0.8m</u> ^{tank 1} & flanges, 3@15m, 3@100m, 2@225m <u>4m x 3m x 0.8m</u> ^{tank 2} 22.9.21 - 4 x installers 23.9.21 - 2 x installers, 1 roll Geo Integrity welding test with pool shear test today hours 7:30 - 13:30			
M ² Laid =			
Top - Hats =			
<u>Waiting Time - Reason</u>		<u>Stock Left On Site</u>	
Completed by: Signature: <u>[Signature]</u> Print: <u>James Peter</u>		Client: Signature: <u>[Signature]</u> Print: <u>Koballah De Saiz</u> Position: <u>Eng. rel.</u>	



Notes:

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- Refer to PTA drawing W257-PTA-SW-ZZ-DR-S-0045 for site constraints.

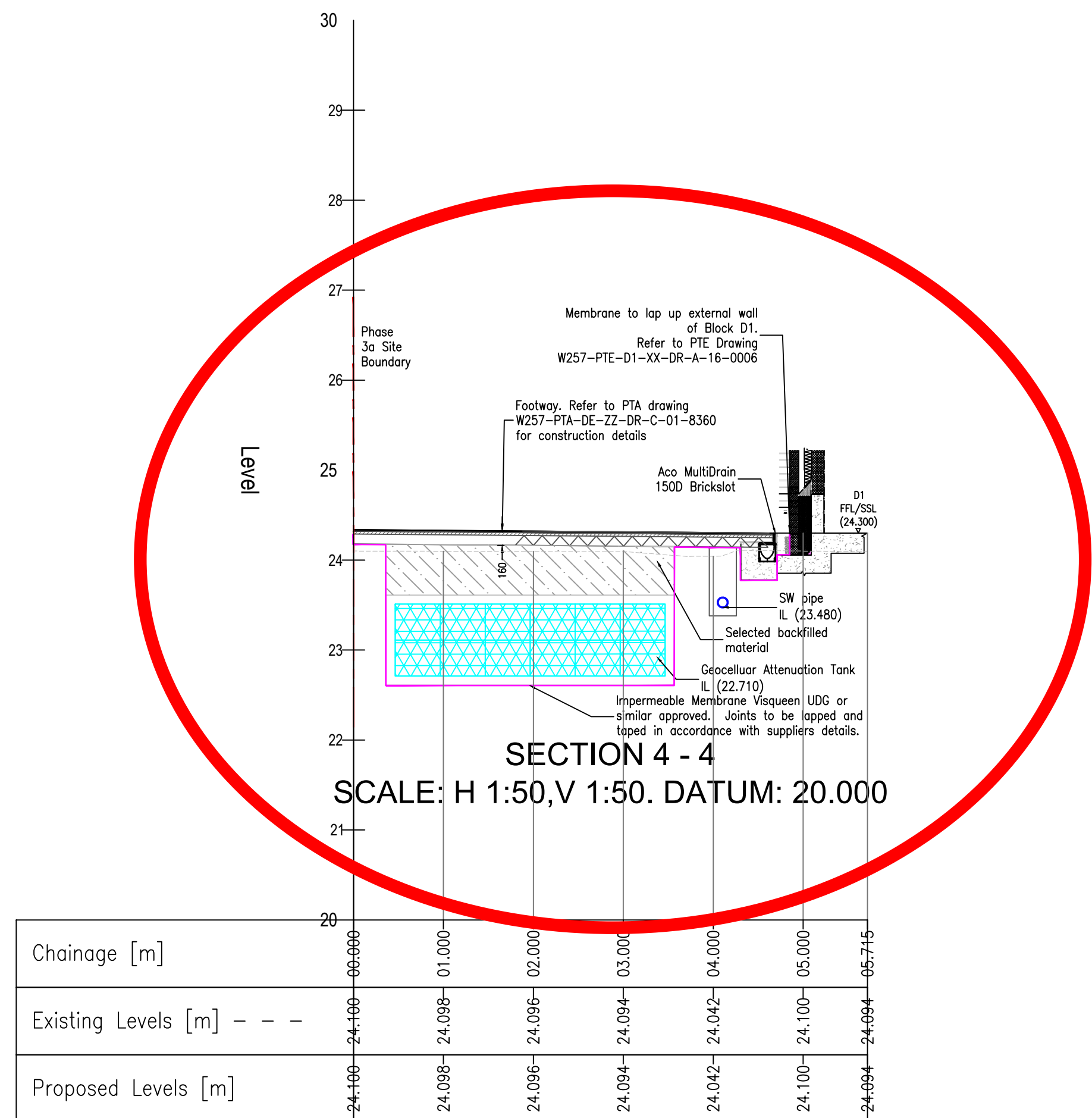
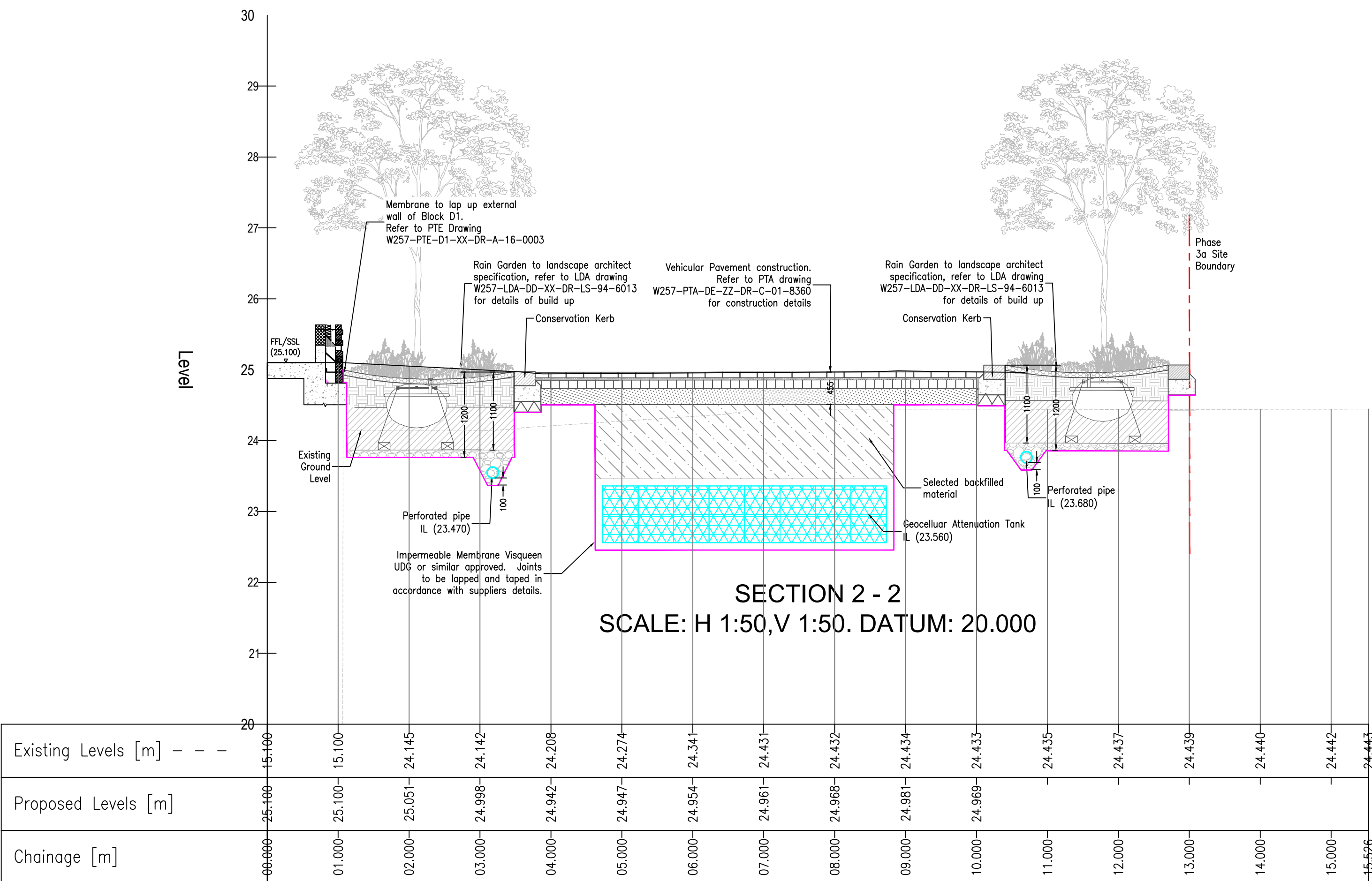
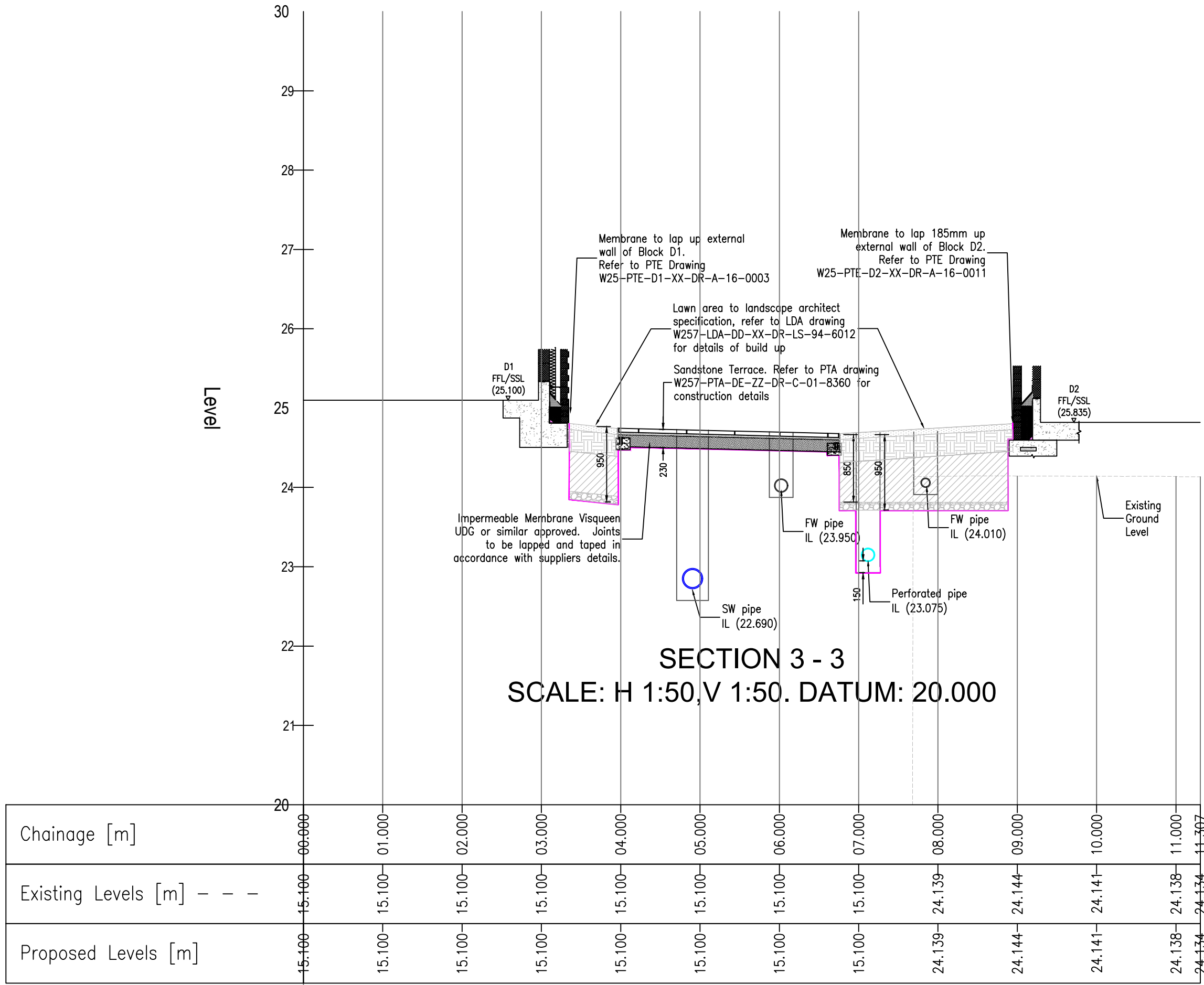
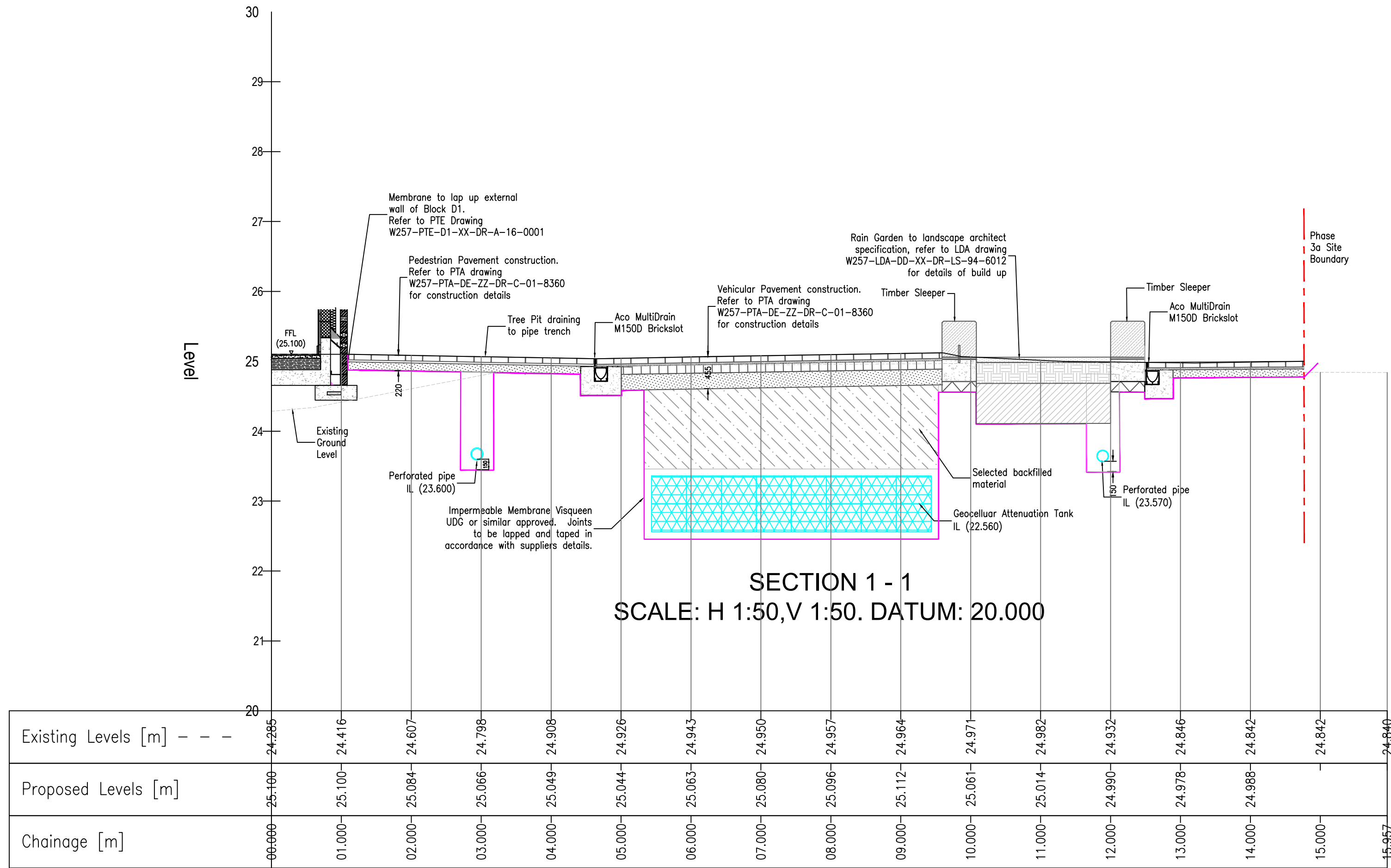
KEY:

- Proposed Site Boundary
- Proposed Floor Level
- Proposed Surface Water pipe & Chamber
- Proposed Foul Water pipe & Chamber
- Proposed French Drain
- Proposed 150mm Perforated pipe
- Pump Chamber with Rising Main Pipe 63mm OD SDR11
- Back Drop
- Rodding Eye
- Proposed ACO Slot Channel Drain: 1400 loading at traffic areas 8125 loading at non-traffic areas
- Channel Drain Sump Unit with 100mm x Outlet Pipe
- Proposed Attenuation Tank
- Proposed Rainwater Garden (Details by Landscaping Architect)
- Stub Stack @ a min. velocity of 0.75m/s
- Soil Vent Pipe @ a min. velocity of 0.75m/s
- Rainwater Down Pipe @ a min. velocity of 1.0m/s
- Floor Trapped Gully with 100mm x Outlet Pipe
- Downstream Pipe Invert
- Upstream Pipe Invert
- Pipe Vent
- PUBLIC SEWER
- Existing surface water pipe
- Existing foul water pipe

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DRAWING STATUS

FOR CONSTRUCTION				
REV	DESCRIPTION	BY	DATE	CHKD
C11	floor gullies invert lvl added	SN	12.11.20	-
C10	D2 Terrace gullies added	SN	10.11.20	-
C9	Pumping Station chamber shape amended. Rising main & perforated pipe diameter added. channel drain amended	SN	30.10.20	-
C8	L&Q drainage added. Architect background amended	SN	15.10.20	-
C7	D1 L&Q drainage added	SN	08.10.20	-
C6	D1 & D2 Blocks SVP & SS amended to suit MEP layout.	SN	25.09.20	-
C5	Site Wide manhole covers level amended.	SN	14.08.20	-
C4	Drainage amended following a coordination exercise.	SN	06.08.20	-
C3	Drainage amended to suit Architect & M&E latest model	SN	16.07.20	-
C2	Drainage amended to suit M&E latest model	SN	22.05.20	AH
C1	Issue for Construction	SN	17.04.20	AH
P1	First Issue.	SN	13.03.20	-
PROJECT TITLE				
Clarendon Ph3a				
DRAWING TITLE				
Drainage Layout Sheet 1 of 3				
DATE	Feb 20	CHECKED DO	CHECKED ENG	PTA PROJ No
DRAWN	SN	JP	AH	9669
SCALE	1 : 100			
DRG SIZE	A1			
DRAWING No				
W257-PTA-DE-ZZ-DR-C-01-8101				
Consulting Civil & Structural Engineers				
				
29 Red Lion Street Chesham Bucks. HP5 1EJ Tel. 01494 772721				
www.placonsult.co.uk				



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 - For location of section and layout of membrane refer to PTA drawings W257-PTA-DE-ZZ-DR-C-01-8101 to 8102

IMPERMEABLE MEMBRANE

VISQUEEN UDG or similar approved impermeable membrane to be installed in all external soft and hardstanding areas outside the footprint of buildings. Drainage trenches are to be lined with the membrane when less than 500mm deep from level of membrane. Manholes to be lined in accordance with PTA details. The impermeable membrane is to be installed in accordance with supplier's instructions.

For extent and depth of membrane refer to PTA drawings W257-PTA-DD-ZZ-DR-C-01-8171 and 8170 series, and for associated sections through external areas refer to PTA drawings W257-PTA-DE-ZZ-DR-C-01-8340 and 8340 series.

For details of membrane and drainage details refer to PTA drawing W257-PTA-DE-ZZ-DR-C-01-8130 and 8131.

For details of membrane under hardstanding construction build-ups refer to PTA drawing W257-PTA-DE-ZZ-DR-C-01-8160.

For details membrane under soft landscaping build-ups refer to LDA build-ups drawings.

For details of membrane lapping up external walls refer to PTE wall details.

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FOR CONSTRUCTION

REV	DESCRIPTION	BY	DATE	CHKD
C4	Updated D1 Sections 1 - 4	JP	18.02.21	
C3	Impermeable membrane spec added.	SN	06.01.21	
C2	Planters detail amended	SN	30.10.20	
C1	Issue for Construction	SN	17.04.20	AH

PROJECT TITLE
Clarendon Ph3a

DRAWING TITLE
Typical Cross Sections
Sheet 1

DATE	April 20	CHECKED DO	CHECKED ENG	PTA PROJ No
DRAWN	JP	JP	AH	9669
SCALE	1:50			REVISION
DWG SIZE	A1			C4

DRAWING No
W257-PTA-DE-ZZ-DR-C-01-8340

Consulting Civil & Structural Engineers

pta
29 Red Lion Street
Chesham
Bucks.
HP5 1EJ
Tel. 01494 772721

www.placonsult.co.uk





















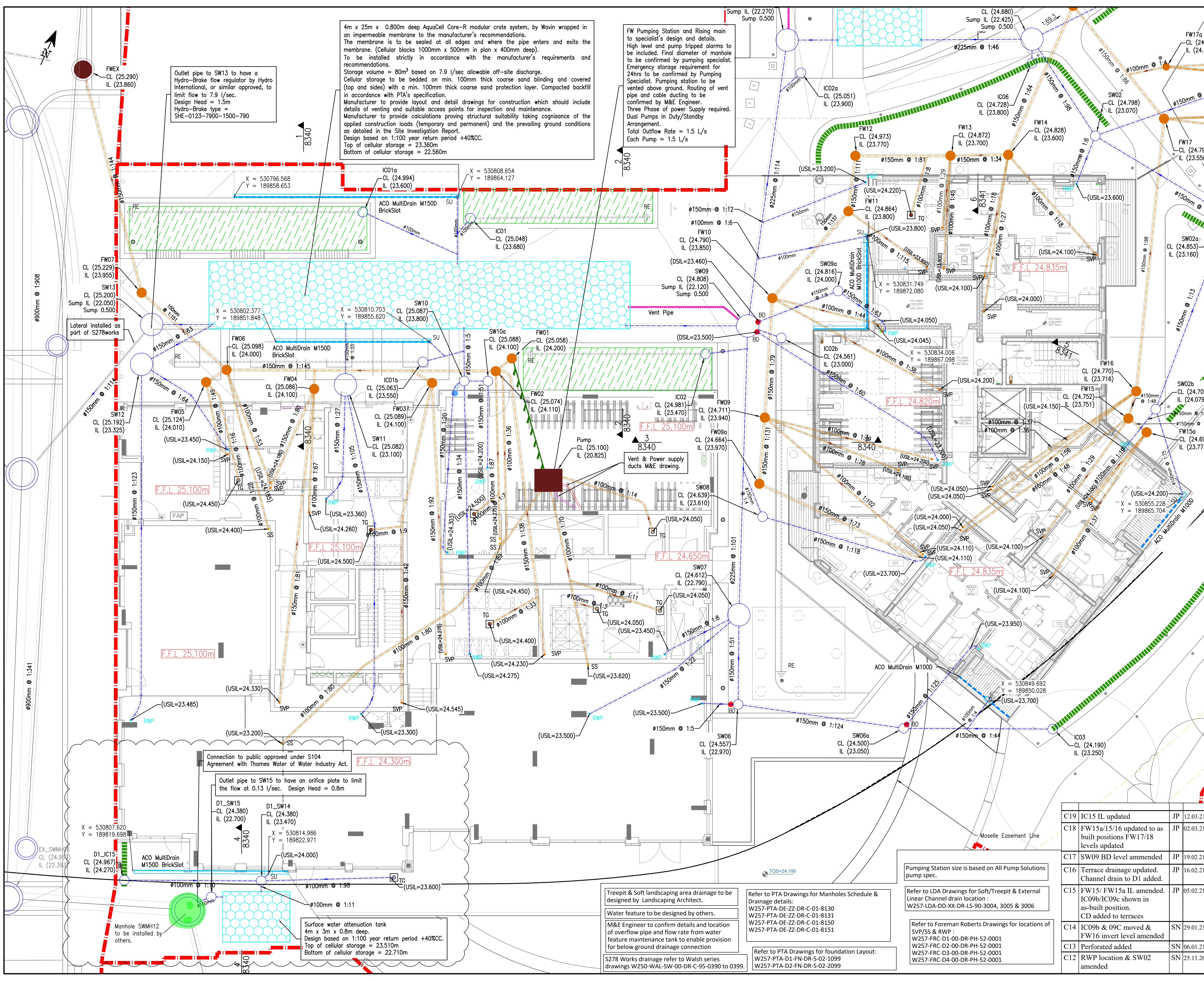


PROJECT NAME: Clarendon Road

Manhole / Drainage run Check Sheet

		Check Sheet No:	S-55	
		Drg Ref & Rev no:	PTA-DE-ZZ-DR-C-01-8101 C19	
No	Manhole & Drainage run construction	Details	Checked and Signed	
			GCL	Client
1	Location: Phase 3 manholes Manhole/pipe run Ref Gridline Ref Highlighted location plan attached	SWMH 12 Yes/No		
2	Manhole size	1500mm dia		
3	Invert level	22.377		
4	Manhole cover : Spec, size, orientation & cover level	24.350		
5	Excavation to correct dimensions/support systems checked		/	
6	Branches & benching: position, line, level checked		/	
7	Rocker pipes installed (if applicable) checked		/	
8	Rings and cover placed as per vertical & horizontal alignment checked.		/	
9	Brickwork & surround filled as per detail/specification checked.		/	
10	All Specials are fixed (Non return valve, Flow control unit, Traps, Rodent barrier, etc.) Specify Type :		N/A	
11	Manhole accessible for future use/maintenance	Yes/No	/	
12	Pipe run details: 600 dia concrete, 150/300 clay Material Diameter Length	Clay/Concrete 600/300/150 -	/	
13	Spurs for lateral connections: Position, level & co-ordinates checked		/	
14	SVP/RWPs installed to correct position, level and capped off.		/	
15	Anchor blocks to correct detail at specified locations		N/A	
16	Bedding & surround as specified		/	
17	Air testing passed/witnessed:		/	
18	Photos attached		/	

Originator - GCL Site Manager		Client Representative	
Name : M. Kunigelis		Name :	
Signature:  Date: 17/09/2021		Signature: _____ Date: _____	



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- Refer to PTA drawing W257-PTA-SW-ZZ-DR-S-0045 for site constraints.

KEY:

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- Proposed Floor Level
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- Downstream Pipe Invert
- Upstream Pipe Invert
- Pipe Vent
- PUBLIC SEWER
- Existing surface water pipe
- Existing foul water pipe

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C7	D1 L&Q drainage added	SN	08.10.20	-
C6	D1 & D2 Blocks SVP & SS amended to suit MEP layout.	SN	25.09.20	-
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C2	Drainage amended to suit M&E latest model	SN	22.05.20	AH
C1	Issue for Construction	SN	17.04.20	AH
P1	First Issue.	SN	13.03.20	-

Clarendon Ph3a

Drainage Layout Sheet 1 of 3

DATE	Feb 20	CHECKED DO	CHECKED ENG	PTA PROJ No
DRAWN	SN	JP	AH	9669
SCALE	1 : 100			
DRG SIZE	A1			
DRAWING No				
W257-PTA-DE-ZZ-DR-C-01-8101				
Consulting Civil & Structural Engineers				
29 Red Lion Street Chesham Bucks. HP5 1EJ Tel. 01494 772721				
www.placonsult.co.uk				

C19	IC15 IL updated	JP	12.03.21	AM
C18	FW15a/15/16 updated to as built positions FW17/18 levels updated	JP	02.03.21	AM
C17	SW09 BD level amended	JP	19.02.21	AM
C16	Terrace drainage updated. Channel drain to D1 added.	JP	16.02.21	AM
C15	FW15/ FW15a IL amended. IC09b/IC09c shown in as-built position. CD added to terraces	JP	05.02.21	AM
C14	IC09b & 09C moved & FW16 invert level amended	SN	29.01.21	-
C13	Perforated added	SN	06.01.21	-
C12	RWP location & SW02 amended	SN	25.11.20	-

Pumping Station size is based on All Pump Solutions pump spec.

Refer to LDA Drawings for Soft/Treepit & External Linear Channel drain location:
W257-LDA-DD-XX-DR-LS-90-3004, 3005 & 3006

Refer to Foreman Roberts Drawings for locations of SVP/SS & RWP:
W257-FRC-D1-00-DR-PH-52-0001
W257-FRC-D2-00-DR-PH-52-0001
W257-FRC-D3-00-DR-PH-52-0001
W257-FRC-D4-00-DR-PH-52-0001

Refer to PTA Drawings for Manholes Schedule & Drainage details:
W257-PTA-DE-ZZ-DR-C-01-8130
W257-PTA-DE-ZZ-DR-C-01-8131
W257-PTA-DE-ZZ-DR-C-01-8150
W257-PTA-DE-ZZ-DR-C-01-8151

Refer to PTA Drawings for foundation Layout:
W257-PTA-D1-FN-DR-S-02-1099
W257-PTA-D2-FN-DR-S-02-2099

Treepit & Soft landscaping area drainage to be designed by Landscaping Architect.

Water feature to be designed by others.

M&E Engineer to confirm details and location of overflow pipe and flow rate from water feature maintenance tank to enable provision for below ground drainage connection

S278 Works drainage refer to Walsh series drawings W250-WAL-SW-00-DR-C-95-0390 to 0399.

4m x 25m x 0.800m deep AquaCell Core-R modular crate system, by Wavin wrapped in an impermeable membrane to the manufacturer's recommendations. The membrane is to be sealed at all edges and where the pipe enters and exits the membrane. (Cellular blocks 1000mm x 500mm in plan x 400mm deep). To be installed strictly in accordance with the manufacturer's requirements and recommendations.

Storage volume = 80m³ based on 7.9 l/sec allowable off-site discharge. Cellular storage to be bedded on min. 100mm thick coarse sand blinding and covered (top and sides) with a min. 100mm thick coarse sand protection layer. Compacted backfill in accordance with PTA's specification.

Manufacturer to provide layout and detail drawings for construction which should include details of venting and suitable access points for inspection and maintenance.

Manufacturer to provide calculations proving structural suitability taking cognisance of the applied construction loads (temporary and permanent) and the prevailing ground conditions as detailed in the Site Investigation Report.

Design based on 1:100 year return period +40%CC.

Top of cellular storage = 23.360m

Bottom of cellular storage = 22.560m

FW Pumping Station and Rising main to specialist's design and details. High level and pump tripped alarms to be included. Final diameter of manhole to be confirmed by pumping specialist. Emergency storage requirement for 24hrs to be confirmed by Pumping Specialist. Pumping station to be vented above ground. Routing of vent pipe and cable ducting to be confirmed by M&E Engineer. Three Phase of power supply required. Dual Pumps In Duty/Standby Arrangement. Total Outflow Rate = 1.5 L/s Each Pump = 1.5 L/s

Outlet pipe to SW13 to have a Hydro-Break flow regulator by Hydro International, or similar approved, to limit flow to 7.9 l/sec. Design Head = 1.5m Hydro-Break type = SHE-0123-7900-1500-790

Outlet pipe to SW15 to have an orifice plate to limit the flow at 0.13 l/sec. Design Head = 0.8m

Surface water attenuation tank 4m x 3m x 0.8m deep. Design based on 1:100 year return period +40%CC. Top of cellular storage = 23.510m Bottom of cellular storage = 22.710m

Manhole SWMH12 to be installed by others.

SWMH 05
CL=24.990
IL=22.393

PROPOSED SW CONNECTION FROM
NORTHERN SIDE OF DEVELOPMENT
PROPOSED 300Ø CULVERT
CONNECTION = 26.1 l/s
IL = 22.255

STRUCTURAL PROTECTION
SLAB OVER CULVERT

SWG09

SWG10

136mm ORIFICE PLATE
RESTRICTING FLOW TO 26.1 l/s
300Ø 1:300

FOR CONTINUATION REFER TO DRAWING
W250-WAL-SW-00-DR-C-52-0320

CONNECTION TO MOSELLE BROOK CULVERT SUBJECT TO EA CONSENT.
INVERT LEVEL OF CONNECTION POINT TBC.
EA TO CONFIRM REQUIREMENTS FOR WATER TREATMENT PRIOR TO
CONNECTION.

- ASSUMED CONNECTION LEVEL ON NORTH SIDE OF CULVERT = $\frac{1}{3}$ DEPTH
- ASSUMED CONNECTION LEVEL ON SOUTH SIDE RESTRICTED BY EXISTING
TW SEWER LEVEL AT TWMHB601

SWMH 12
CL=24.350
IL=22.377

300Ø 1:300

300Ø 1:300

SWMH 10
CL=24.841
IL=21.641
IL=21.341 (BASE)

300Ø 1:300

265mm ORIFICE PLATE
RESTRICTED TO 181 l/s

PROPOSED SW CONNECTION FROM SOUTHERN SIDE OF DEVELOPMENT
EXISTING 225Ø CONNECTION TO BE UPSIZED TO 300Ø AND FITTED
WITH 265mm ORIFICE PLATE IN UPSTREAM MANHOLE SWMH 11
CONNECTION IL = 21.480
EXISTING FLOW RATE = 344 l/s
PROPOSED FLOW RATE = 181 l/s
PROPOSED FLOW RATE REDUCTION = 163 l/s

CL=24.449
IL=21.764
IL=21.764

31mmØ RESTRICTED
TO 2.6 l/s

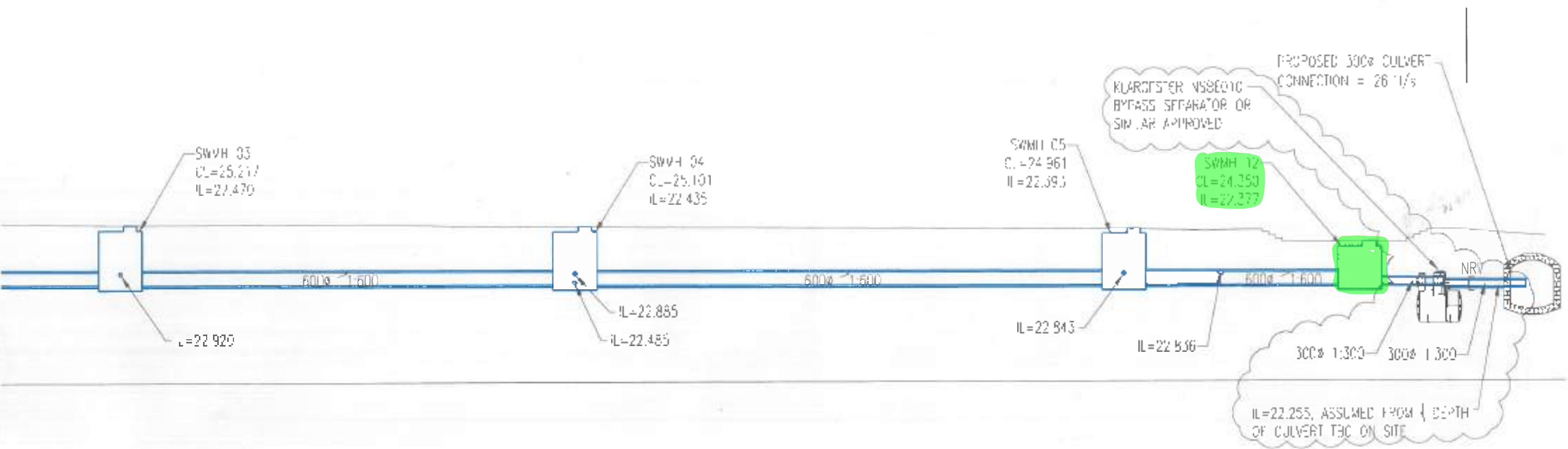
SWMH 11
CL=24.452
IL=21.611

SWG25

SWG26

SWMH 09
CL=24.529
IL=21.676
IL=21.676 (BASE)

26mmØ RESTRICTED
TO 1.9 l/s



NORTHERN SURFACE WATER DRAINAGE SECTION
(REFER TO W25C-MAL-SW-00-DR-C 52-0320 FOR PLAN VIEW)

