

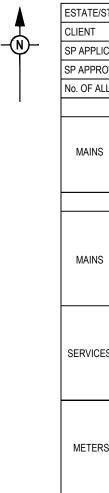
TILLERMAN

PARK RIDGE

PROPOSED RESIDENTIAL DEVELOPMENT

STAGE 4 OPERATIONAL WORKS 133-159 PARK RIDGE ROAD, PARK RIDGE FOR 'HB PARK RIDGE'





DRAWING LIST

SEWERAGE AND WATER RETICULATION									
S									

ENGINEER'S CERTIFICATION

- Dan Collins, hereby certify that
- The information contained in this drawing / document is in compliance with ap drawings and design.
- The new water and sewerage works defined by this drawing have been designed a constructed in accordance with the SEQ code.
- This generally represents an accurate record of as-constructed works
- I accept responsibility for the information contained in this drawing / documen

S- Colt

PEQ (signature) RPEQ No. 18631 Date: 07/05/24



REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS		SCALE	CLIENT	PROJECT
A	03.11.23	CL	AK	ISSUE FOR CONSTRUCTION						
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								4.0500 50 0 50 400	HB PARK RIDGE	
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						DANIEL COLLINS RPEQ 18631	and the second second second second			
									ASSOCIATED CONSULTANT	
									SAUNDERS HAVILL GROUP	
									PH: 1300 123 744	
						FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD			FI. 1300 123 744	

GE		Park Ridge Road STAGE 4							
		HB PARK RIDGE							
ION No.		COM/36/2021							
L DATE		-01.01.01							
MENTS		22 LOTS							
	ASSET REGISTE	ER - SEWERA	GE						
	MATE	ERIAL	LEN	GTH					
DIAMETER	DESIGN	CONST	DESIGN	CONST					
DN150	uPVC SN8	-	302m	266m					
DN160	uPVC SN8	-	-	-					
ASS	ET REGISTER - W	ATER RETICU	JLATION						
	MATE	ERIAL	LENGTH						
DIAWETER	DESIGN	CONST	DESIGN	CONST					
DN125	PVC-M PN16	-	-	-					
DN150	PVC-M PN16	-	140.0m	165m					
DN250	PVC-M PN16	-	224.0m	112m					
	MATE	ERIAL	LENGTH						
DIAWETER	DESIGN	CONST	DESIGN	CONST					
DN25	PVC-M PN16	-	16.0m						
DN32	PVC-M PN16	-	38.0m	10m					
DN40	PVC-M PN16	-	40.0m	54m					
	MATE	RIAL	NUM	IBER					
DIAIVIETER	DESIGN	CONST	DESIGN	CONST					
20Ø	PE100 PN16	-	22						
25Ø	PE100 PN16	-	-	-					
32Ø	PE100 PN16	-	-	-					
	DN160 ASSI DIAMETER DN125 DN150 DN250 DIAMETER DN32 DN32 DN40 DIAMETER 200 250	ION No. L DATE IMENTS ASSET REGISTE DIAMETER DIAMETER DIAMETER DIAMETER DIAMETER DN160 UPVC SN8 DIAMETER MATE DIAMETER DN125 PVC-M PN16 DN250 PVC-M PN16 DN32 PVC-M PN16 DN32 PVC-M PN16 DN40 PVC-M PN16 DN32 PVC-M PN16 DIAMETER DIAMETER DIAMETER DIAMETER DIAMETER DESIGN DIAMETER DESIGN DIAMETER DIAMETER DESIGN DIAMETER	HB PARK ION No. COM/36/2 L DATE -01.01.01 IMENTS 22 LOTS ASSET REGISTER - SEWERAN ASSET REGISTER - SEWERAN DIAMETER MATERIAL DIAMETER MATERIAL DIAMETER MATERIAL DIAMETER MATERIAL DN160 uPVC SN8 DN160 uPVC SN8 DIAMETER MATERIAL DIAMETER MATERIAL DIAMETER MATERIAL DIAMETER PVC-M PN16 DN150 PVC-M PN16 DIAMETER DESIGN DIAMETER DESIGN DN32 PVC-M PN16 DIAMETER MATERIAL DIAMETER DESIGN DIAMETER CONST DN32 PVC-M PN16 DIAMETER DESIGN DIAMETER DESIGN	HB PARK RIDGE ION No. COM/36/2021 L DATE -01.01.01 IMMETES -22 LOTS ASSET REGISTER - SEWERAGE DIAMETER MATERIAL LEN DIAMETER MATERIAL LEN					

TILLERMAN PARK RIDGE

SEWERAGE AND WATER

RETICULATION COVER PLAN

133	-159 PARK RIDGE ROAD
P	ARK RIDGE (STAGE 4)

22-0144

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GENERAL NOTES:

- THE CONTRACTOR SHALL SUPPLY ALL LABOR, MATERIALS, PLANT AND EQUIPMENT TO CONSTRUCT THE WORKS AS DOCUMENTED AND STRICTLY IN ACCORDANCE WITH THE RELEVANT AUTHORITY STANDARDS, SPECIFICATIONS AND REQUIREMENTS
- EXISTING SERVICES RELEVANT TO THE PROJECT HAVE BEEN CONSIDERED THROUGHOUT DESIGN AND IS BASED ON SURVEY INFORMATION PROVIDED BY THE SURVEYOR AND THE CONTRACTOR. THE RPEQ WHO CERTIFIED THE DESIGN OR THE PRINCIPAL'S CONSTRUCTION RPEQ HAVE RELIED UPON THIS INFORMATION TO INFORM THE DESIGN. THE CONTRACTOR SHALL VERIFY THE POSITION OF ANY UNDERGROUND SERVICES WITHIN THE AREAS OF WORKS AND SHALL BE RESPONSIBLE FOR MAKING GOOD ANY DAMAGE THERETO. ANY ALTERATION WORKS TO SERVICES WILL BE CARRIED OUT ONLY BY THE SERVICE OWNER AUTHORITY UNLESS APPROVED OTHERWISE.
- ALL DESIGN AND CONSTRUCTION ACTIVITIES UNDERTAKEN SHALL COMPLY WITH CURRENT WORKPLACE HEALTH AND SAFETY REQUIREMENTS AND LEGISLATION
- PRIOR TO COMMENCING WORK, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL RELEVANT LOCAL AUTHORITY PERMITS
- THE CONTRACTOR SHALL NOT COMMENCE THE DEMOLITION OF ANY EXISTING BUILDINGS AND/OR STRUCTURES WITHOUT APPROVAL FROM THE SUPERINTENDENT.
- THE CONTRACTOR SHALL APPLY INDUSTRY BEST PRACTICE SO WORKS SHALL NOT DISTURB OR AFFECT NEARBY RESIDENTS EITHER BY DUST, NOISE, FLOODING OR DISCONNECTION OF SERVICES, CONTRACTOR TO ENSURE THAT ACCESS AND SERVICES TO EXISTING PROPERTIES ARE AVAILABLE AT ALL TIMES.
- THE CERTIFICATION OF THIS DESIGN IS BASED ON SURVEY AND POTHOLE INFORMATION PROVIDED BY THE SURVEYOR AND/OR CONTRACTOR AT THE TIME OF DESIGN. PRIOR TO COMMENCEMENT OF WORKS, THE CONTRACTOR SHALL VERIFY LEVELS OF EXISTING SERVICE CROSSINGS AND CONNECTION POINTS AND NOTIFY THE RPEQ WHO CERTIFIED THE DESIGN OR THE PRINCIPAL'S CONSTRUCTION RPEQ OF ANY DISCREPANCIES BETWEEN ACTUAL AND PROPOSED DESIGN LEVELS. THE CERTIFICATION OF THIS DESIGN IS BASED ON SURVEY AND POTHOLE INFORMATION PROVIDED BY THE SURVEYOR AND CONTRACTOR AT THE TIME OF DESIGN.
- HOLD POINT: ONCE THE BASE OF MANHOLES HAVE BEEN POURED, CONSTRUCTION SHALL ONLY RE-COMMENCE ONCE THE SUPERINTENDENT AND/OR ENGINEER HAVE INSPECTED THE WORKS.
- THE CONTRACTOR SHALL NOTE DURING THE COURSE OF THE WORKS WHEN JOINT INSPECTIONS WITH THE AUTHORITY AND THE SUPERINTENDENT ARE REQUIRED. THESE INCLUDE PRE-STARTS, SUBGRADES, PRE-SEALS, CLEARING, AND OTHER SUCH INSPECTIONS AS NOMINATED DURING THE PRE-START, IN THE APPROVAL AND THE SPECIFICATIONS. THE CONTRACTOR SHALL ENSURE NO WORKS PROCEED PAST THE INSPECTION POINT UNTIL THE JOINT INSPECTION HAS BEEN SUCCESSFULLY COMPLETED.
- THE CONTRACTOR SHALL VERIFY LEVELS OF EXISTING SERVICE CROSSINGS AND CONNECTION POINTS PRIOR TO COMMENCEMENT OF WORKS AND NOTIFY THE RPEQ WHO CERTIFIED THE DESIGN OR THE PRINCIPAL'S CONSTRUCTION RPEQ OF ANY DISCREPANCIES BETWEEN ACTUAL AND PROPOSED DESIGN LEVELS. THE CERTIFICATION OF THIS DESIGN IS BASED ON SURVEY AND POTHOLE INFORMATION PROVIDED BY THE SURVEYOR AND CONTRACTOR AT THE TIME OF DESIGN
- THESE ENGINEERING DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE APPROVED VEGETATION MANAGEMENT PLAN, WHERE APPLICABLE. WHEN IN DOUBT, ALL EXISTING TREES ARE TO REMAIN UNLESS DIRECTED OTHERWISE.

ENVIRONMENTAL CONDITIONS

VEGETATION PROTECTION

- TREES LOCATED ALONG THE FOOTPATH SHALL BE, TRANSPLANTED PRIOR TO CONSTRUCTION, OR REPLACED IF DESTROYED.
- WHEN WORKING WITHIN 4m OF TREES. RUBBER OR HARDWOOD GIRDLES SHALL BE CONSTRUCTED WITH 1.8m BATTENS CLOSELY SPACED AND ARRANGED VERTICALLY FROM GROUND LEVEL, GIRDLES SHALL BE STRAPPED TO TREES PRIOR TO CONSTRUCTION AND REMAIN UNTIL COMPLETION.
- TREE ROOTS SHALL BE TUNNELED UNDER, RATHER THAN SEVERED. IF ROOTS ARE SEVERED THE DAMAGED AREA SHALL BE TREATED WITH A SUITABLE FUNGICIDE. CONTACT RELEVANT COUNCIL ARBORIST FOR FURTHER ADVICE
- D ANY TREE LOPPING REQUIRED SHOULD BE UNDERTAKEN BY AN APPROVED ARBORIST.

SOIL

- TOPSOIL AND SUBSOIL SHALL BE STOCKPILED SEPARATELY. Α
- CARE SHALL BE TAKEN TO PREVENT SEDIMENT FROM ENTERING THE STORMWATER SYSTEM. THIS MAY R INVOLVE PLACING APPROPRIATE SEDIMENT CONTROLS AROUND STOCKPILES.

CREEK CROSSINGS

- SILTATION CONTROL MEASURES SHALL BE PLACED DOWNSTREAM OF ANY EXCAVATION WORK. APPROPRIATE SEDIMENT CONTROLS SHALL BE USED TO PREVENT SEDIMENT FROM ENTERING THE CRFFK
- NO SOIL SHALL BE STOCKPILED WITHIN 5m OF THE CREEK.

REHABILITATION

- PREDISTURBANCE SOIL PROFILES AND COMPACTION LEVELS SHALL BE REINSTATED.
- PREDISTURBANCE VEGETATION PATTERNS SHALL BE RESTORED.

ALL WATER AND SEWERAGE CONSTRUCTION	ALL ENVIRONMENTAL PROTECTION MEASURES SHALL BE
SHALL COMPLY WITH ALL QUEENSLAND	IMPLEMENTED PRIOR TO ANY CONSTRUCTION WORK
LEGISLATION	COMMENCING, INCLUDING CLEARING
THIS DESIGN PACKAGE SHOWS CONNECTIONS TO INFRASTRUCTURE THAT HAS NOT BEEN ACCEPTED 'ON-MAINTENANCE' BY LOGAN CITY COUNCIL LIVE-WORKS CANNOT COMMENCE UNTIL THE PRECEDING WORKS HAVE BEEN ACCEPTED 'ON MAINTENANCE' BY LOGAN CITY COUNCIL	PROPERTY CONNECTIONS HAVE BEEN DESIGNED TO CONTROL THE REQUIRED SERVICE AREA OF EACH LOT AT A GRADE OF 1:60 AND A MAXIMUM DEPTH OF PROPERTY CONNECTION AT 1.5m UNLESS OTHERWISE STATED. FOR JUNCTION DETAILS REFER SEQ-SEW-1106-1 TO SEQ-SEW-1106-6.

- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT WSAA GRAVITY SEWERAGE CODE OF
- AUSTRALIA SPECIFICATIONS AND STANDARD SOUTH EAST QUEENSLAND SERVICE PROVIDERS EDITION. UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN 2
- STANDARDS THE DESIGN HAS BEEN UNDERTAKEN TO COMPLY WITH CURRENT LOGAN CITY COUNCIL STANDARDS AND THE WSAA GRAVITY SEWERAGE CODE OF AUSTRALIA SPECIFICATIONS AND STANDARD - SOUTH EAST QUEENSLAND SERVICE
- PROVIDERS EDITION 4. THE CONSTRUCTION OF THE SEWERAGE WORK SHOWN ON THIS DRAWING SHALL BE SUPERVISED BY AN ENGINEER WHO HAS RPEQ REGISTRATION. SEWERAGE WORKS NOT COMPLYING WITH THIS REQUIREMENT WILL NOT BE PERMITTED TO CONNECT INTO LOGAN CITY COUNCIL SEWERAGE SYSTEM.
- ALL LIVE WORK SHALL BE UNDERTAKEN BY THE CONTRACTOR IN ACCORDANCE WITH A VALID WORKS PERMIT, UNDER THE SUPERVISION OF LOGAN CITY COUNCIL. AT THE DEVELOPER'S COST.
- 6. ALL PIPES AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE "ACCEPTED PRODUCTS AND MATERIALS" LIST, UNLESS APPROVED BY LOGAN CITY COUNCIL.
- BENCH MARK AND LEVELS TO AHD.
- WHERE PIPES ARE LAID IN FILL, THE FILLING SHALL BE CARRIED OUT IN LAYERS NOT EXCEEDING 300mm (LOOSE) IN 8 DEPTH AND SHALL BE COMPACTED UNTIL THE COMPACTION IS NOT LESS THAN 95% OF THE MATERIALS MAXIMUM COMPACTION WHEN TESTED IN ACCORDANCE WITH A.S.1289 (MODIFIED COMPACTION). TESTING SHALL BE CARRIED OUT AFTER EACH ALTERNATE LAYER. IN ALL SUCH CASES APPROVAL OF CONSTRUCTED SEWERS WILL NOT BE ISSUED BY LOGAN CITY COUNCIL UNLESS CERTIFICATES ARE PRODUCED CERTIFYING THAT THE REQUIRED COMPACTION HAS BEEN ACHIEVED
- SEWERS SHALL BE DISUSED/ABANDONED IN ACCORDANCE WITH PROCEDURE SET OUT IN THE GRAVITY SEWER CODE.
- 10. CONSTRUCT EMBEDMENT AND TRENCHFILL TO SEQ-SEW-1200-1, 1200-2, 1201-1 TO 1205-1 AND COUNCIL STANDARDS FOR ROADWAYS.
- CONSTRUCT BULKHEADS AND TRENCH STOPS TO SEQ-1206-1 AND TRENCH DRAINS TO SEQ-SEW-1207-1.
- 12. EACH ALLOTMENT SHALL BE SERVED BY A DN110 PROPERTY CONNECTION. FOR ALLOTMENTS OTHER THAN SINGLE RESIDENTIAL, A DN160 PROPERTY CONNECTION SHALL BE PROVIDED. PROPERTY CONNECTIONS SHALL BE LOCATED WITHIN THE PROPERTY AS SHOWN IN THE DRAWINGS AND SHALL EXTEND INTO THE PROPERTY A MINIMUM OF 300mm AND A MAXIMUM OF 750mm REFER SEQ-SEW-1106-1 TO 1106-6
- 13. CONSTRUCT MH'S TO SEQ-SEW-1301-1 TO 1301-5 (TYPE G), 1301-8 TO 1301-11 (TYPE F), 1301-14 TO 1301-25 (TYPE X), 1301-26 (TOP SLAB), 1301-27 (LADDERS), 1304-1, 1305-1, 1307-4 (STUB CUT IN), 1313-1 (CONNECTION).
- CONSTRUCT MH INSERTIONS AND REPAIRS TO 1501-1 (JUNCTIONS) AND 1502-1 (INSET MS). 15. CONSTRUCT MAINTENANCE SHAFTS AND TERMINAL ENTRY POINTS TO SEQ-SEW 1315-1, 1316-1 AND 1502-1 (INSERT MS)
- 16. INSTALL MH/MS TYPE B COVERS TO SEQ-SEW-1308-2 TO 1308-7.
- 17. INSTALL MH/MS TYPE D COVERS TO SEQ-SEW-1308-8 TO 1308-11.
- 18. INSTALL DETECTABLE MARKER TAPE ON ALL SEWER MAINS AND PROPERTY CONNECTIONS.
- 19. THE UNDERSIDE OF ALL MAINTENANCE HOLE ASPROS MUST BE LINED AS PER STD DRG SEQ-SEW-1301-26.
- 20. CONCRETE FOR MH CONSTRUCTION SHALL BE SPECIAL CLASS TO WSA PS-358 WITH REQUIREMENTS FOR CALCEREOUS AGGREGATE.

WATER RETICULATION NOTES

- CITY COUNCIL STANDARDS
- 4. CONNECT TO THE RETICULATION SYSTEM.
- ADOPT LIP OF KERB OR SHOULDER OF ROAD AS PERMANENT LEVEL COVER ON MAINS FROM PERMANENT LEVEL TO BE AS SHOWN IN SEQ-WAT-1200-2.
- CROSSINGS
- 9. AND 1210-1
- 1206-1 AND 1207-1 AND WHERE OTHER PIPES CONNECT TO DN PIPE.

- AGAINST LIVE MAINS AND VALVES IS NOT PERMITTED. DOCUMENTED ON DRAWINGS.
- DICL/MSCL SHORT PIPE WITH PREFABRICATED THRUST FLANGE.
- AC MAINS SHALL BE REPLACED COLLAR-COLLAR.
- CONSTRUCT PROPERTY SERVICES TO SEQ-WAT-1107-1 AND 1107-3.
- 21. 2xDN25
- 23
- ACCORDANCE WITH LOGAN CITY COUNCIL STANDARD DRAWING

REVISION DETAILS	DRAWN	STATUS		SCALE	CLIENT	PROJECT NAME
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		AS CONSTRUCTED			HB PARK RIDGE	
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	DA	APPROVED DANIEL COLLINS RPEQ 18631				PARK RIDGE
					ASSOCIATED CONSULTANT	
					SAUNDERS HAVILL GROUP	133-159 PARK RIDGE ROAD
		FOR AND ON BEHALE OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD			PH: 1300 123 744	PARK RIDGE (STAGE 4)

ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT WSAA WATER SUPPLY CODE OF AUSTRALIA SPECIFICATIONS AND STANDARD - SOUTH EAST QUEENSLAND SERVICE PROVIDERS EDITION. UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS. THE DESIGN HAS BEEN UNDERTAKEN TO COMPLY WITH CURRENT SOUTH EAST QUEENSLAND WATER CODE AND LOGAN

THE CONSTRUCTION OF THE WATER RETICULATION WORK SHOWN ON THIS DRAWING MUST BE SUPERVISED BY AN ENGINEER WHO HAS RPEQ REGISTRATION. WORKS NOT COMPLYING WITH THIS REQUIREMENT WILL NOT BE PERMITTED TO

ALL MATERIALS USED IN THE WORKS SHALL COMPLY WITH LOGAN CITY COUNCIL ACCEPTED PRODUCTS AND MATERIALS LIST OR BE APPROPRIATELY SHOWN, LISTED AND DEFINED IN THE ENGINEERING SUBMISSION SO THAT THE ALTERNATIVE PRODUCT OR MATERIAL CAN BE ASSESSED AND IF APPROPRIATE, APPROVED BY LOGAN CITY COUNCIL.

CONSTRUCT EMBEDMENT AND TRENCH FILL TO SEQ-WAT-1200-1 TO 1204-1 AND COUNCIL STANDARDS FOR ROADWAY

PROVIDE BULKHEADS / TRENCH STOPS IN ACCORDANCE WITH SEQ WATER SUPPLY CODE TABLE 7.5 AND SEQ-WAT-1209-1

10. CONSTRUCT THRUST BLOCKS ON ALL UNRESTRAINED VALVES, BENDS, TEES, TAPERS, DEAD ENDS TO SEQ-WAT-1205-1.

11 INSTALL DETECTABLE MARKER TAPE ON ALL WATER MAINS AND PROPERTY SERVICES

12. CONSTRUCT FIRE HYDRANTS AND STOP VALVES TO SEQ-WAT-1301-1, 1302-1, 1303-2, 1305-1, 1306-1 AND 1409-1.

13. CONSTRUCT SCOURS TO SEQ-WAT-1307-2 (ONLY MAINS DN315 AND LARGER), SCOURS MUST DISCHARGE INTO AN OPEN STORMWATER GULLY PIT. DISCHARGE TO THE FACE OF KERB AND CHANNEL IS NOT ACCEPTABLE TO LOGAN CITY COUNCIL. 14. INSTALL ROAD AND PAVEMENT MARKERS TO SEQ-WAT-1107-1, 1107-2, 1300-1 AND 1300-2.

15. CONSTRUCT HYDRANTS AT THE ENDS OF ALL NEW MAINS BEFORE THE SCOUR AND WHERE REQUIRED FOR COMMISSIONING PURPOSES, LOGAN CITY COUNCIL PREFERENCE IS TO AVOID TAPPING BANDS FOR TEST POINTS AND PROVIDE EITHER A TEMPORARY DUCKFOOT HYDRANT OR FLANGED SHORT PIPE WITH A TEMPORARY TAPPED BLANK FLANGE. TESTING

16. TESTING LOCATIONS AND TEMPORARY FITTINGS ARE REQUIRED ON SERVICES OVER 10m LONG UNLESS APPROVED IN WRITING FOR WORKS TO BE UNDERTAKEN AS LIVE WORKS. TESTING AND AS -CONSTRUCTED REQUIREMENTS TO BE

17. 316SS BACKING RINGS SHALL BE USED WITH FULL-FACE FLANGES. STUB-FLANGES ARE NOT ACCEPTED. WHEN JOINING TO EXISTING UNRESTRAINED PIPELINES, PROVIDE A DICL SHORT PIPE WITH THRUST FLANGE AND THRUST BLOCK. BOLT ON UNI FLANGES SHALL NOT BE USED AS THRUST FLANGES. THRUST (PUDDLE) FLANGES SHALL BE AN APPROVED PREFABRICATED

18. ALL DISUSED SERVICES SHALL BE PLUGGED AT THE MAIN AND FERRULE CLOSED OR TAPPING BAND REMOVED AND SECTION OF MAIN SUBSTITUTED AS LIVE WORKS. LARGE DIAMETER SERVICES SHALL BE DISUSED BY REMOVING ANY PROPERTY SERVICE PIPEWORK AT THE POINT OF CONNECTION TO THE MAIN, AND INSTALLING A BLANK FLANGE DIRECTLY ON THE TEE.

PROVIDE 2xDN25 WATER SERVICES FOR ROAD CROSSINGS SERVICING TWO DWELLINGS. PROVIDE DN32 WATER SERVICES FOR ROAD CROSSINGS SERVICING A SINGLE DWELLING. IF THE LONG TERM STATIC HEAD OF THE PROPERTY SERVICE IS LESS THAN 350 kPA (35m) OR IF PRIVATE BOOSTER IS REQUIRED, THE MINIMUM SIZE OF PROPERTY SERVICE SHALL BE

22. WATER SERVICE UNDER ROADS MUST BE PLACED WITHIN 100mm DIA. CONDUITS, REFER SEW-WAT-1107-1. A WATER METER SUPPLIED AT THE DEVELOPER'S COST, IS TO BE INSTALLED AT THE SERVICE POINT OF EACH LOT IN

24. WATER METER AND FIRE HYDRANTS MUST BE LOCATED MINIMUM 1.1m CLEAR OF ENERGEX PILLARS.

ENGINEER'S CERTIFICATION

Dan Collins, hereby certify the

The information contained in this drawing / document is in compliance with approve drawings and design.

The new water and sewerage works defined by this drawing have been designed an constructed in accordance with the SEQ code.

This generally represents an accurate record of as-constructed works

I accept responsibility for the information contained in this drawing / document

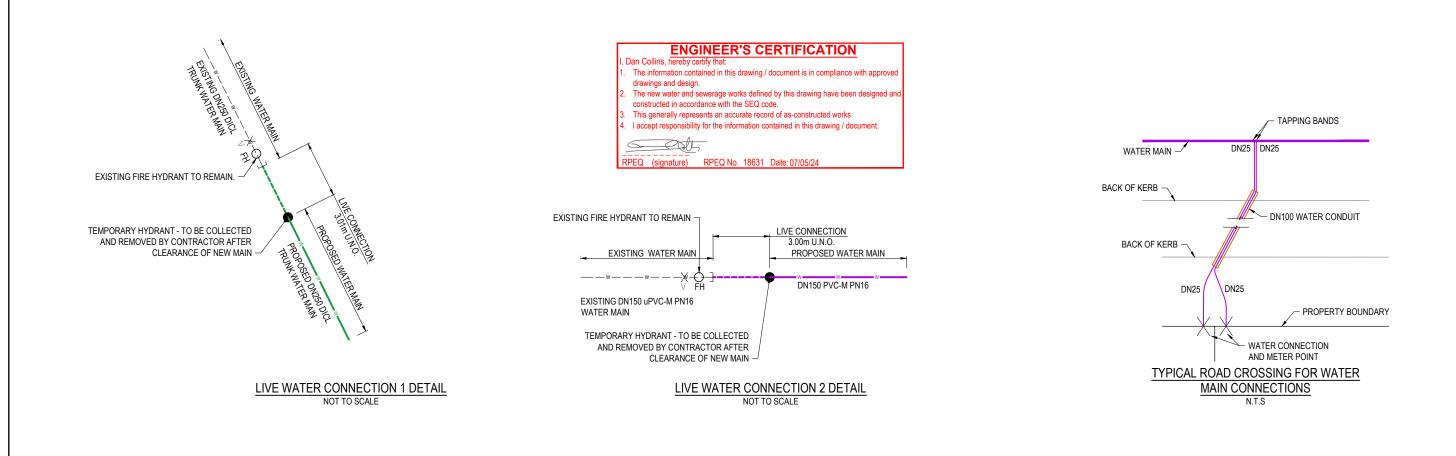


RPEQ (signature) RPEQ No. 18631 Date: 07/05/24

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SEWERAGE AND WATER ETICULATION GENERAL NOTES

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WATER RETICULATION LIVE CONNECTIONS

CONNECTION 1	CONNECTION 2					
STREET TILLERMAN NEXT TO DRIVEWAY 01 AND LOT 308	STREET DORAN CIR NEAR DRIVEWAY 02 AND LOT 314					
LOCATION LOT 401 AND LOT 315	LOCATION LOT 232 AND LOT 411					
LENGTH 3.00m TYPE OF MAIN DN250 PVC-M PN16	LENGTH					
DATE DATE	DATE DATE					
COMMENCED ——— COMPLETED ———	COMMENCED COMPLETED					
SIGNATURE	SIGNATURE					

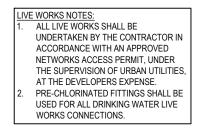
LIVE	LIVE WORKS NOTES:											
1.	ALL LIVE WORKS SHALL BE UNDERTAKEN BY THE											
	CONTRACTOR IN ACCORDANCE WITH AN											
	APPROVED NETWORKS ACCESS PERMIT, UNDER											
	THE SUPERVISION OF URBAN UTILITIES, AT THE											
	DEVELOPERS EXPENSE.											
2.	LIVE WORKS CANNOT COMMENCE UNTIL ALL											

RELEVANT TEST CERTIFICATES HAVE BEEN PROVIDED AND ACCEPTED BY URBAN UTILITIES.

LIVE SEWER WORKS

No.	DESCRIPTION	DIA. SEWER	EXISTING ASSET ID AT CONNECTION	MH/MS TYPE	COVER TYPE	LOT & PLAN No.	F.S.L.	E.S.L.	CONNECTION I.L.	CONNECTION DEPTH TO INVERT	ALTERAT EXISTING MH REQUIRE
1 (A)	0.50m FROM EXISTING STUB, CONSTRUCTOR, TO LAY NEW SEWERS. AFTER CLEANSING, TESTING AND INSPECTION, NOTIFY URBAN UTILITIES.	DN150	13/3	MS	В	303	63.832 63.48	-63.832	-62.191 61.88	1.642 1.60	N
1 (B)	CONSTRUCTOR, UNDER URBAN UTILITIES SUPERVISION, TO REMOVE TEMPORARY END CAP ON EXISTING STUB AND MAKE LIVE CONNECTION AFTER SUCCESSFUL 'ON MAINTENANCE' INSPECTION.										
2 (A)	0.50m FROM EXISTING STUB, CONSTRUCTOR, TO LAY NEW SEWERS. AFTER CLEANSING, TESTING AND INSPECTION, NOTIFY URBAN UTILITIES.	DN150	2/12	MS	В	303	62.776 63.32	-62.776	61.035 61.72	1.741 1.60	N
2 (B)	CONSTRUCTOR, UNDER URBAN UTILITIES SUPERVISION, TO REMOVE TEMPORARY END CAP ON EXISTING STUB AND MAKE LIVE CONNECTION AFTER SUCCESSFUL 'ON MAINTENANCE' INSPECTION.										

RE	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS		SCALE	CLIENT	PROJECT
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						DANIEL COLLINS RPEQ 18631				
					_				ASSOCIATED CONSULTANT	_
									SAUNDERS HAVILL GROUP	
					1				PH: 1300 123 744	
						FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD			PH. 1300 123 744	



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	RK RIDGE		PROJECT No.	DRAWING No.	REVISION
133-159	PARK RIDGE ROAD		22.0444	202	•

PARK RIDGE (STAGE 4)

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22-0144	302	0
PROJECT No.	DRAWING No.	REVISION

LEGEND

	PROPOSED AREA OF WORKS
WTWT	PROPOSED 250Ø DICL TRUNK WATER MAIN
w	PROPOSED WATER MAIN
ww	EXISTING WATER MAIN
WW	PROPOSED DICL WATER MAIN
cc	PROPOSED WATER CONDUIT
	EXISTING WATER CONDUIT
(HP) (LP)	HIGH POINT / LOW POINT
9.30	PROPOSED ROAD CONTOUR
	INDICATIVE DRIVEWAY LOCATION
	ZERO LOT BOUNDARY
D D	PROPOSED STORMWATER DRAINAGE PIPE
D D D	EXISTING STORMWATER DRAINAGE PIPE
R R	PROPOSED ROOFWATER DRAINAGE PIPE
R R R	EXISTING ROOFWATER DRAINAGE PIPE
ss	PROPOSED SEWER MAIN
sss	EXISTING SEWER MAIN
— — EU — — EU — —	EXISTING ELECTRICAL CABLE U/G
— — EO — — EO — —	EXISTING ELECTRICAL CABLE O/H
G G G	EXISTING GAS MAIN

WATER FITTINGS LEGEND

PROPOSED:	
FH	FIRE HYDRANT
×	ISOLATION VALVE
j	DEAD END
\longrightarrow	REDUCER
¥	SCOUR VALVE AND ASSEMBLY
x	TEST POINT
×	WATER SERVICE POINT
EXISTING:	
ww	FIRE HYDRANT
w	ISOLATION VALVE
w]	DEAD END
$-\!\!-\!$	THE OVER
w_ <u>*</u> _w	SCOUR VALVE AND ASSEMBLY
w x w	TEST POINT
х	WATER SERVICE POINT

NOTE:

- WATER MAINS MUST CROSS OVER SERVICES WITH MINIMUM COVER PER SEQ CI. 7.4.2. AND CLEARANCES PER SEQ CODE TABLE 5.5.
- ALL VALVES TO BE FULLY RESTRAINED IN ACCORDANCE WITH THE SEQ CODE. MARKERS FOR PROPERTY SERVICES SHALL BE IN
- ACCORDANCE WITH SEQ-WAT-1106-1108. MARKERS FOR WATER MAIN CROSSINGS, HYDRANTS AND VALVES SHALL BE IN ACCORDANCE WITH SEQ-WAT-1300-1.

NOTE - WATER SERVICE CONDUITS: ALL WATER SERVICE CONDUITS TO BE DN100 uPVC AND COMPLY WITH THE RELEVANT SEQ, WS & S AND D & C CODE STANDARD DRAWINGS SEQ-WAT-1110-1 & 2	-0-
NOTE - ROAD CROSSINGS: WATER MAINS UNDER CARRIAGEWAYS TO BE DICL	
NOTE: THRUST BLOCKS TO BE CONSTRUCTED IN ACCORDANCE WITH SEQ-WAT-1205-1	
NOTE: WATER MAINS MUST CROSS OVER SERVICES WITH MINIMUM COVER PER SEQ CI. 7.2.4. AND CLEARANCES PER SEQ CODE TABLE 5.5	

WARNING! - EXISTING SERVICES

EXTREME CARE SHOULD BE TAKEN WHEN EXCAVATING IN THIS AREA. THE FOLLOWING EXISTING SERVICES ARE LIKELY TO BE PRESENT IN THE VICINITY OF THE SITE:

- ELECTRICAL CABLES
- TELECOMMUNICATIONS CABLES
- GAS MAINS
- WATER MAINS

- SEWER MAINS

THE CONTRACTOR SHOULD CONTACT THE SERVICE PROVIDER FOR FURTHER INFORMATION AND SATISFY THEMSELVES OF ANY SPECIFIC TREATMENT OR REQUIREMENTS.

AS CONSTRUCTED LEGEND

	WATER PIPE
	TAPPING BAND
	VALVE
	FIRE HYDRANT
-	
	END CAP

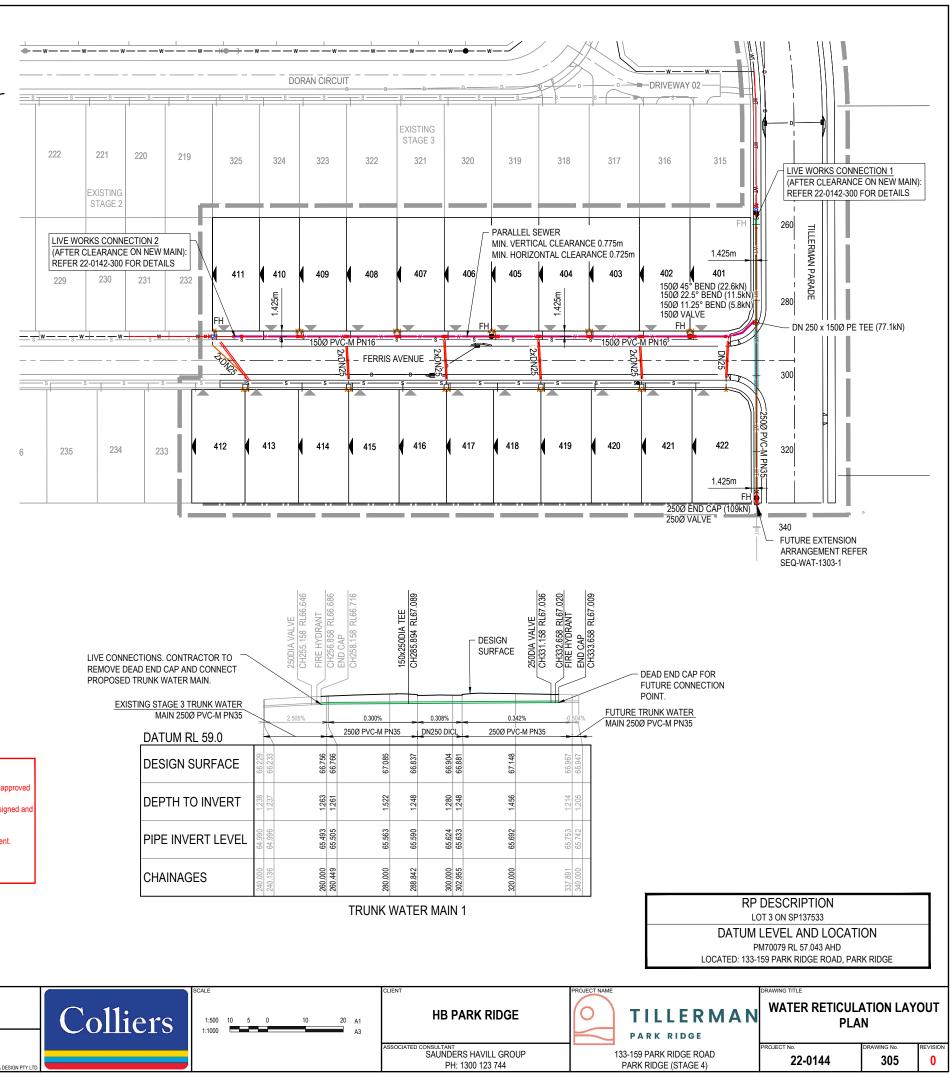
ENGINEER'S CERTIFICATION

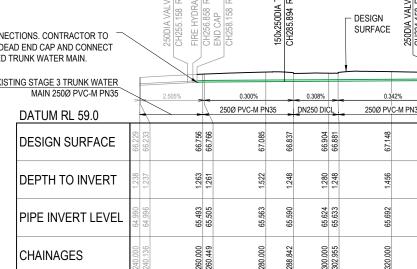
Dan Collins, hereby c The information contained in this drawing / document is in compliance with approve

- drawings and design. The new water and sewerage works defined by this drawing have been designed and
- constructed in accordance with the SEQ code.
- This generally represents an accurate record of as-constructed works
- I accept responsibility for the information contained in this drawing / document.

· Colt,

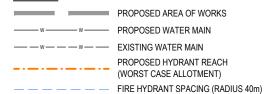
PEQ (signature) RPEQ No. 18631 Date: 07/05/24







LEGEND



NOTE:

ALL FIRE HYDRANT LOCATIONS SHALL MEET CLASS 1 BUILDING COVERAGE REQUIREMENTS OF THE SEQ CODE. FIRE HYDRANT COVERAGE IS AS SHOWN AND DEMONSTRATES THE WORST POSSIBLE LOCATION OF ANY PROPOSED CLASS 1 BUILDING WITHIN 90m OF HYDRANT REACH.



AS CONSTRUCTED LEGEND

ENGINEER'S CERTIFICATION

- I, Dan Collins, hereby certify that: 1. The information contained in this drawing / document is in compliance with approved
- drawings and design. The new water and sewerage works defined by this drawing have been designed and
- constructed in accordance with the SEQ code.
- This generally represents an accurate record of as-constructed works
 I accept responsibility for the information contained in this drawing / document.
- S- Colto

RPEQ (signature) RPEQ No. 18631 Date: 07/05/24

216	6	217 w	218	326	327	328	329	330 EXISTING STAGE 3	331	332)	
					DORAN C	IRCUIT					FIX	
22	22	221	220	219	325	324	323	322	321 320	319	318	317
2	229	EXISTING STAGE 2 230	231	232 FH	411	410	68.75m FROM HYDRANT	408	407 4 06	405 'H	70.00m FROM HYDRANT	403
w	w			****		W SEV			· · ·			W
	`	\		1	•	<u> </u>	<u>_</u>		FER	RIS AVENUE		
6	235	234	233		412	56.60m FROM HYDRANT	414	57.60m FROM HYDRANT	416 417	418	61.50m FROM HYDRANT 419	420
05	506	601	1 60)2	603	604 6	05 606	6 607	608 FUTURE STAGE 6, 7 AND 8		802 803	3

- [REV DAT	re des	IGN DRAWN	REVISION DETAILS	DRAWN	STATUS		SCALE	CLIENT	PROJECT NAM
- 0	A 03.11	.23 C	L AK	ISSUE FOR CONSTRUCTION]					
	0 07.05	5.24 C	L BP	AS CONSTRUCTED		AS CONSTRUCTED				$\left(\right)$
								1:500 10 5 0 10 20 A1	HB PARK RIDGE	
					(A OTHERS I	1.500 10 5 0 10 20 A1		
- F					DESIGN	APPROVED		1:1000 A3		
		_				DANIEL COLLINS RPEQ 18631				
		_							ASSOCIATED CONSULTANT	
		_			1				SAUNDERS HAVILL GROUP	
		_			1				PH: 1300 123 744	
						FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD			111. 1000 120 /44	

