

ABBREVIATIONS

AAV	AIR ADMITTANCE VALVE	IO	INSPECTION OPENING
ABS	AUTOMATIC BEVERAGE SERVICE	IM	ICE MACHINE
AC	AIR CONDITIONING	IW	ICE WELL
AFFL	ABOVE FINISHED FLOOR LEVEL	IV	ISOLATION VALVE
AP	AIR POINT	kPa	KILOPASCALS
AS	AUSTRALIAN STANDARD	kW	KILOWATT
B	BASIN	l	LITRE
BTH	BTH	LD	LINEAR DRAIN
B/BTH	BABY BATH	l/h	LITRES PER HOUR
BW	BIKE WASH	l/s	LITRES PER SECOND
BWU	BOILING WATER UNIT	LU	LOADING UNITS
BT	BUCKET TRAP	JR	JUG RINSE
C	CELSIUS	m/s	METRES PER SECOND
CHV	CHECK VALVE	NFRS	NON POTABLE RAINWATER SIGN
CM	COFFEE MACHINE	O/F	OVERFLOW
CO	CLEAROUT	ORG	OVERFLOW RELIEF GULLY
COS	CLEAROUT TO SURFACE	PC	PLUMBING CONDUIT
CTE	CONNECT TO EXISTING	PDP	PROVISIONAL DRAINAGE POINT
CSK	CLEANERS SINK	PGP	PROVISIONAL GAS POINT
CWD	COLD WATER DROPPER	PLV	PRESSURE LIMITING VALVE
CWR	COLD WATER RISER	PRV	PRESSURE REDUCTION VALVE
D	DISABLED	PTWP	PROVISIONAL TRADEWASTE POINT
DF	DRINKING FOUNTAIN	PVC	POLYVINYL CHLORIDE
DCHV	DUAL CHECK VALVE	PWP	PROVISIONAL WATER POINT
DCV	DOUBLE CHECK VALVE	REF	REFRIGERATOR
DN	NOMINAL DIAMETERS	RL	REDUCED LEVEL
DP	DOWNPIPE	RPZD	REDUCED PRESSURE ZONE DEVICE
DPH	DUAL PILLAR HYDRANT	RWD	RAINWATER DROPPER
DSK	DOUBLE SINK	RWO	RAINWATER OUTLET
DGW	DOG WASH	RWR	RAINWATER RISER
DW	DISH WASHING MACHINE	SFW	SEALED FLOOR WASTE
DWG	DRAWING	SK	SINK
e	EXISTING	SL	SURFACE LEVEL
EPD	ELEVATED PIPE DROPPER	SPR	SPREADER
FCB	FROZEN COKE BEVERAGE	ST	STACK
FFL	FINISHED FLOOR LEVEL	STCHV	SINGLE TESTABLE CHECK VALVE
FHR	FIRE HOSE REEL	SWIP	STORM WATER INLET PIT
FSB	FROZEN SERVICE BEVERAGE	SWV	SWIVEL EXPANSION JOINT
FSD	FIRE SERVICE DROPPER	TLV	TEMPERATURE LIMITING VALVE
FSR	FIRE SERVICE RISER	TMV	THERMOSTATIC MIXING VALVE
FTD	FIRE TEST DRAIN	TPRV	TEMPERATURE & PRESSURE RELIEF VALVE
FU	FIXTURE UNITS	TD	TUNDISH
FW	FLOOR WASTE	TTD	TRAPPED TUNDISH
FWG	FLOOR WASTE GULLY	TYP	TYPICAL UNLESS NOTED OTHERWISE
GIT	GREASE INTERCEPTOR TRAP	TWD	TRADEWASTE DROPPER
GTV	GREASE TRAP VENT	TWVP	TRADEWASTE VENT PIPE
GIO	GUTTER OUTLET	USCL	UNDERSIDE CONCRETE INVERT LEVEL
GW	GLASS WASHER	UNO	UNLESS NOTED OTHERWISE
HC	HOSE COCK	VB	VACUUM BREAKER
HDPE	HIGH DENSITY POLYETHYLENE	VP	VENT PIPE
HP	HIGH POINT	WC	WATER CLOSET
HT	HOSE TAP	WM	WASHING MACHINE
HWD	HOT WATER DROPPER	WMA	WATER METER
HWR	HOT WATER RISER		
HWU	HOT WATER UNIT		
IL	INVERT LEVEL		

INALA HOTEL
REFURBISHMENTS



LOCATION PLAN
NOT TO SCALE

189 FREEMAN ROAD
AREA OF WORKS

TOTAL FIXTURE TABLE

TOTAL CURRENT FIXTURE UNITS 26FU = 1000 PVC @1%

FIXTURE	TRAP OUTLET DIA.	QUANTITY
SINK	50	3
URINAL	50	0
CLEANERS SINK	50	1
BASIN	40	1
SHOWER	50	0
LAUNDRY TUB	50	0
WC	100	0
GLASSWASHER	50	0
COMBI OVEN	50	1
WASHING MACHINE	50	0
DRINKING FOUNTAIN	40	0
TUNDISH	50	3
DW	50	1
GRATED DRAIN	50	1
BUCKET TRAP	100	1
RPZD	20	3
DOUBLE CHECK VALVE	20	0
TOTAL ESTIMATED FIXTURES 15		

TESTABLE DEVICE TABLE

MAKE	TYPE	LOCATION/PURPOSE	SIZE	SERIAL No:
VALVCEQ	RPZD	DISHWASHER & WDR	20	
VALVCEQ	RPZD	GREASE TRAP	20	
VALVCEQ	RPZD	COMBI OVEN	20	
TOTAL TESTABLE DEVICES 3				

TAVERN TRADE WASTE LOADING TABLE -
2000LITRE GREASE TRAP #1

TENANCY	TRAP OUTLET DIA.	PEAK FLOW L/H	QUANTITY	TOTAL
UTILITY/POT SINK	50	150 EACH BOWL	2	300
COMBI OVEN	50	150	1	150
BASIN	40	50	1	50
SINK CLEANERS	50	75	1	75
DISH WASHER	50	120	1	120
TRAPPED TUNDISH	50	3 REF/AC	3	9
BUCKET TRAP/ GRATED DRAIN	100	50 (PER 50m²)	4	50

ASSESSED RISK FACTOR AS PER WSAA FFOG GUIDELINES: TABLE 2 & TABLE 3

ASSESSED RISK WITHIN TABLE 2: TAVERN, HIGH RISK INCLUDING BAKING, STEAMING BOILING & GRILLING OF COMMERCIAL FOOD, HIGH FAT AND OIL MEALS.
ASSESSED RISK WITHIN TABLE 3: LOW RISK
AT 240L/HR TOTAL THE COMBI OVEN IS UNDER 50% OF TOTAL LOADING AS PER CALCULATION ABOVE. 7 DAY FAST FOOD OPERATION AT 2 TIMES VOLUME
TOTAL ESTIMATED PEAK FLOW / HOUR = 754 L/HOUR DISCHARGE x 1.5 TIMES THE RISK FACTOR = 1508L/HR PROVIDE 2KL HALGAN TRAP (IN ACCORDANCE WITH COUNCIL TRADE WASTE REQUIREMENTS)

LINETYPES

	EXISTING PIPEWORK TO BE MADE REDUNDANT
	EXISTING SEWER DRAINAGE
	EXISTING HOUSE DRAINAGE
	EXISTING TRADE WASTE
	EXISTING WATER SERVICE
	EXISTING HOT WATER SERVICE
	EXISTING STORMWATER
	EXISTING GAS
	EXISTING FIRE
	EXISTING SPRINKLER
	EXISTING NON POTABLE CW
	EXISTING NON POTABLE HW
	EXISTING HOT WATER RETURN
	CIVIL SEWER
	CIVIL STORMWATER
	EXISTING SANITARY VENT
	EXISTING TRADE WASTE VENT
	SAW CUT
	CONDUIT
	CONDENSATE DRAIN
	SANITARY PLUMBING AND HOUSE DRAINAGE
	STORMWATER
	TRADE WASTE
	VENT PIPE
	TRADE WASTE VENT PIPE
	COLD WATER
	HOT WATER
	HOT WATER RETURN
	TEMPERED WATER
	FIRE SERVICE
	GAS
	AGRICULTURAL DRAIN
	RISING MAIN
	REVERSE OSMOSIS
	SYPHONIC DRAINAGE
	SYPHONIC OVERFLOW
	SPRINKLER
	RE-CYCLE WATER
	NON-POTABLE WATER
	HOT NON-POTABLE WATER
	IRRIGATION LINE
	SUB-SOIL DRAINAGE
	COMPRESSED AIR
	FILTERED LINE
	PLUMBING CONDUIT
	PUMP OUT
	FIRE HOSE REEL LINE
	FIRE HYDRANT LINE

SYMBOLS

	PIPE DROPS
	PIPE RISES
	SANITARY FIXTURE POINT
	WATER FIXTURE POINT
	RISER/DROPPER
	TRAP & WASTE
	BUCKET TRAP/FLOOR WASTE GULLY (BT/FWG)
	FLOOR WASTE GULLY/GRATED OUTLET (FWG)
	CLEAR OUT
	TUNDISH
	SWIVEL JOINT
	EXPANSION JOINT
	CHECK VALVE
	DUAL CHECK VALVE
	GATE VALVE
	THERMOSTATIC MIXING VALVE (TMV)
	HOSE COCK (HC)
	WATER METER
	BALANCING VALVE
	PRESSURE RELIEF VALVE
	SOLENOID VALVE
	MOTORISED VALVE
	CAPPED END
	PRESSURE LIMITING VALVE
	REDUCED PRESSURE ZONE DEVICE
	REFLUX VALVE
	FLOAT VALVE
	VALVE BOX
	HOT WATER DROPPER TO SINK, BASIN ETC
	COLD WATER DROPPER TO SINK, BASIN ETC
	AIR ADMITTANCE VALVE
	LOCKABLE VALVE
	LINE STRAINER
	EXPANSION JOINT
	CIRCULATING PUMP
	OVERFLOW RELIEF GULLY
	HOSE COCK
	HOSE COCK WITH RISER/DROPPER
	WATER BALANCING VALVE
	GAS METER
	GAS EMERGENCY VALVE
	GAS COCK
	GAS REGULATOR
	GAS BALANCING VALVE
	GAS COOKING VALVE
	REGULATOR
	TEMPERING VALVE
	REFLUX VALVE
	SOLENOID VALVE
	FLOOD VALVE
	PRESSURE GAUGE
	INTERNAL HYDRANT
	FIRE HYDRANT (SPRING TYPE)
	DOUBLE PILLAR HYDRANT
	FIRE BOOSTER ASSEMBLY
	FIRE HOSE REEL
	GREASE INTERCEPTOR TRAP
	NEUTRALISER / SETTLING PIT
	SYPHONIC OUTLET
	TRENCH DRAIN
	STORMWATER GULLY PIT
	RAINWATER OUTLET
	STORMWATER MANHOLE
	CONNECT TO EXISTING - SMALL
	CONNECT TO EXISTING - LARGE
	REDUCER
	DIRECTION OF FLOW
	FOR CONTINUATION
	DRAWING CONTINUATION
	CAST IN SLAB/PENETRATION THROUGH STRUCTURE

DRAINAGE PLAN No: 38139

RPD: LOT 1 ON RP99594

OWNERS NAME(S)
HOTEL PROPERTY INVESTMENTS
LIMITED

LGA: BRISBANE



PRELIMINARY

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rev	date	drawn	issue
1	17.08.23	RC	PRELIMINARY ISSUE

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- AUSTRALIAN GOVERNMENT WATER EFFICIENT LABELLING STANDARDS (WELS) SCHEME

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client

Australian
Venue Co.

architect

project

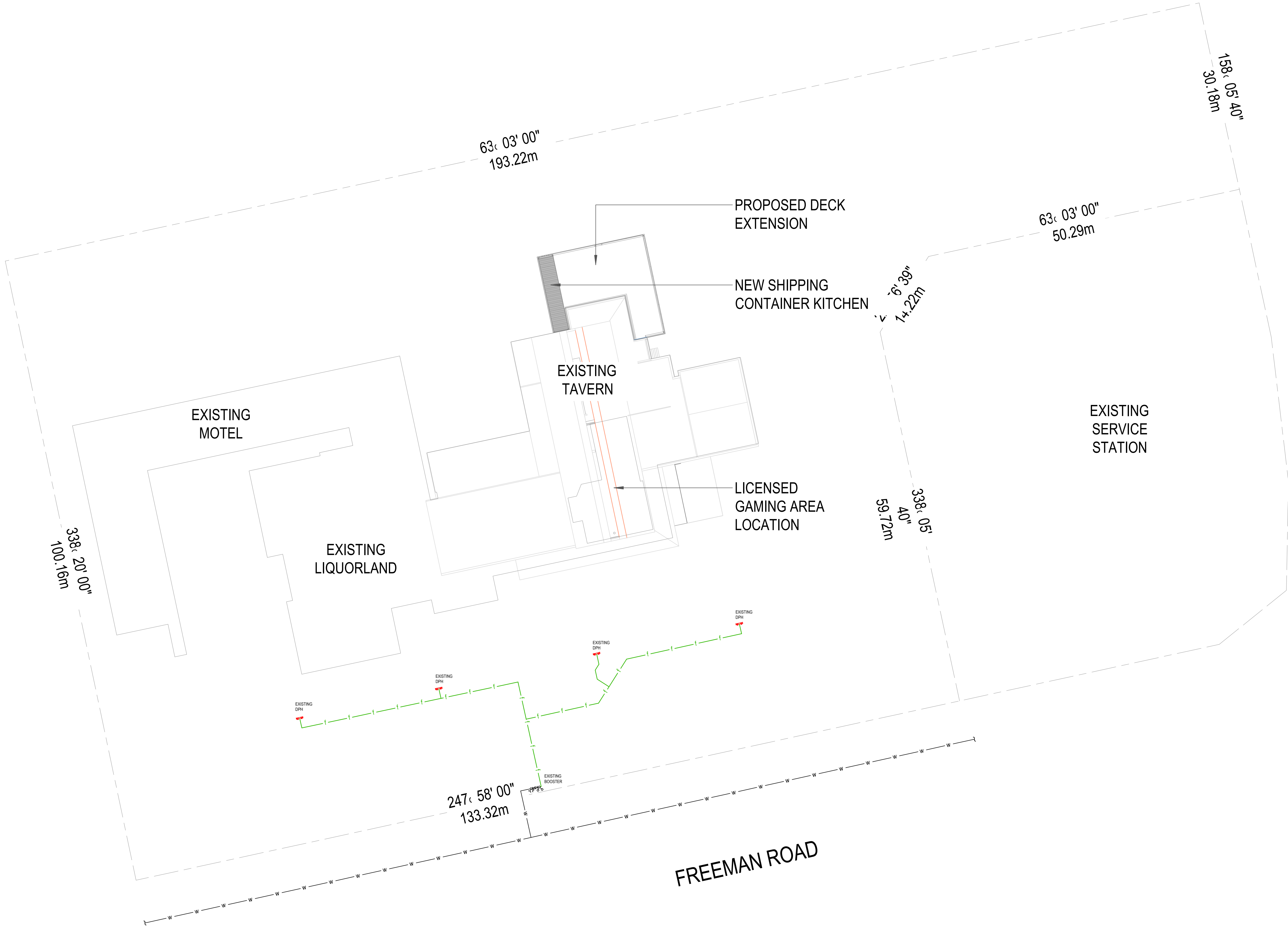
INALA HOTEL
REFURBISHMENTS
189 FREEMAN ROAD
INALA, QLD 4077

drawing title

COVER SHEET,
LOCALITY PLAN
& LEGEND

HYDRAULIC SERVICES

scale	designed	drawn
AS SHOWN @ A1	R.C.	A.G.
project number	drawing number	revision
0571	H01	1



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RPD: LOT 1 ON RP99594

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drawing title
EXISTING SITE PLAN

HYDRAULIC SERVICES

scale	designed	drawn
1:200@A1	R.C.	A.G.
project number	drawing number	revision
0571	H03 of	1

WITHOUT AVAILABLE GEOTECH REPORT, THIS SITE HAS BEEN CLASSIFIED
EXTREMELY REACTIVE (CLASS E) 150MM YS AS PER THE PLUMBING NEWSFLASH
568 SWIVEL AND EXPANSION JOINTS HAVE BEEN ADDED FOR MAXIMUM
POTENTIAL MOVEMENT.
ALLOW TO INSTALL FITTING AT EXISTING CONNECTION AS SHOWN.
REFER TO DETAIL ON THE INSTALLATION OF THE FITTINGS AS REQUIRED BY
MANUFACTURER. ALLOW SUITABLE FALLS FOR THE EXPANSION AND
CONTRACTION AS PER THE INVERT LEVELS SHOWN.

EXISTING SERVICES NOTE:

IMMEDIATELY ON RECEIPT OF AN ORDER EMPLOY PIPE EYE OR AN EQUAL
PIPE INSPECTION SERVICE TO SURVEY IN GROUND PIPEWORK TO
CONFIRM:

- CAMERA INSPECTION & DLAP REPORT

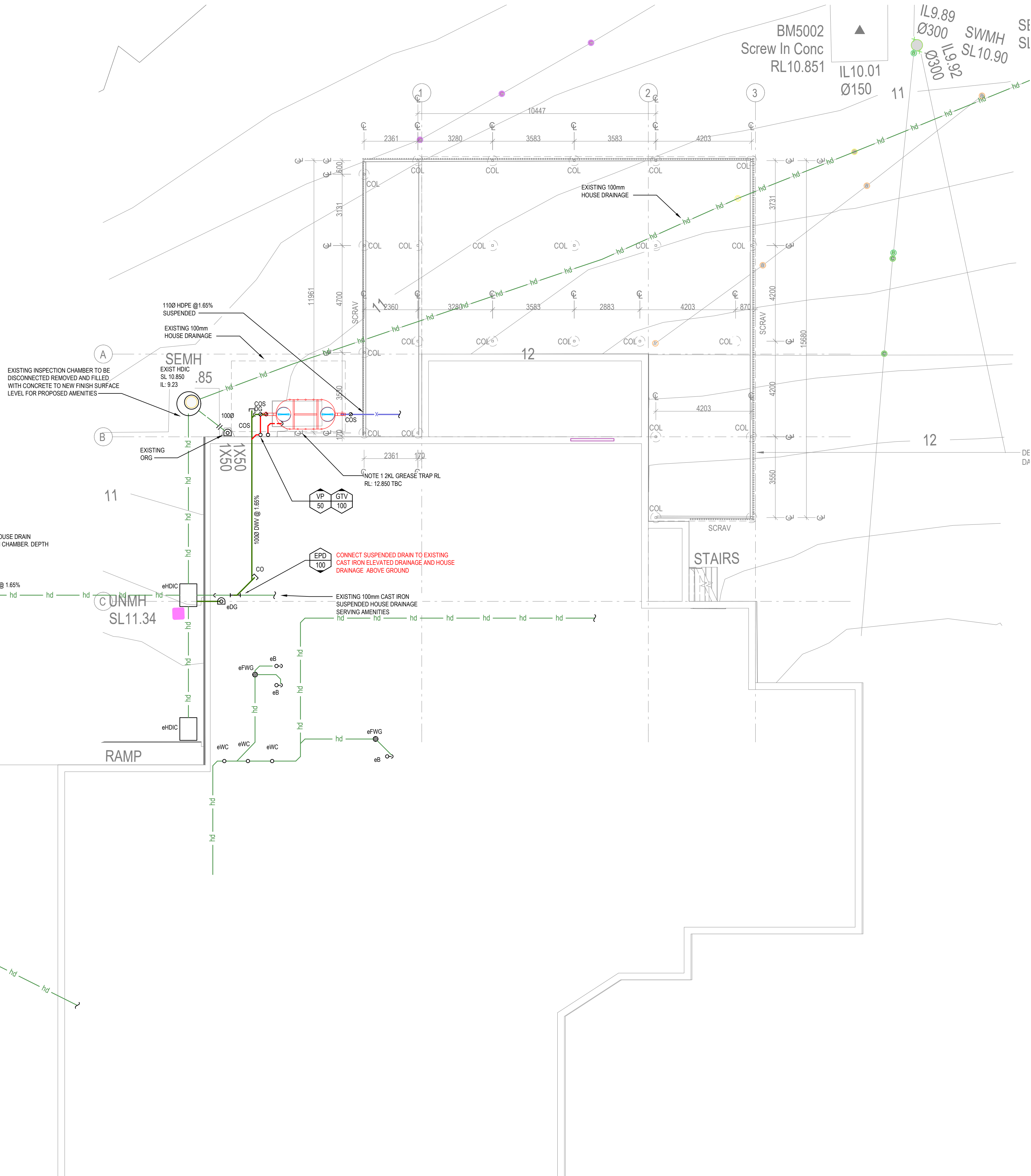
SEAL EXISTING REDUNDANT HYDRAULIC SERVICES IN ACCORDANCE WITH RELEVANT CODES AND LOCAL AUTHORITY REQUIREMENTS. REMOVE REDUNDANT SERVICES WHERE INTERFERING WITH NEW SERVICES AND SEAL AT THE SOURCE OF ITS INSTALLATION.

EXTENT OF SLAB TO BE SAW CUT & TRENCH TO BE DUG FOR THE INSTALLATION OF NEW 100Ø SANITARY DRAINAGE PIPEWORK. ALL CUTTING OF SLAB TO BE APPROVED BY STRUCTURAL ENGINEER BEFORE START OF WORK.

REFER TO THE CIVIL ENGINEERS DRAWINGS FOR ALL
SURFACE WATER TREATMENT AND LANDSCAPE
DRAINAGE REQUIREMENTS. REFER TO CIVIL DRAWINGS
FOR ALL INFORMATION

1. SUPPLY AND INSTALL 2.00LITRE ABOVE GROUND HALGAN GREASE TRAP WITH CLASS D LIDS FOR KITCHEN WITH SEALED GULLY FOR TESTING WITH TRAP. IN COMPLIANCE WITH QSO PRETREATMENT REQUIREMENTS.
2. LOCATE AND CONNECT TO EXISTING HOUSE DRAINAGE IN AN APPROVED MANNER. ALLOW ALL COSTS
3. SEALED FLOOR WASTES TO BE CAPPED AT FFL WITH BRASS CLEAR OUTS.
4. REFER TO DIAGRAMS FOR PIPE SIZES.
5. ALL MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE RELEVANT AUTHORITIES.
6. ALL INVERT LEVELS AND INVERT LEVELS ARE BASED ON ASSUMED STRUCTURAL SLAB LEVEL FOR DESIGN PURPOSES ONLY.
7. ALLOW TO EXCAVATE FOR AND LOCATE EXISTING SEWER TO CONFIRM SUITABILITY OF I/L. FOR CONNECTION PRIOR TO COMMENCEMENT OF DRAINAGE WORKS.
8. CLEAROUTS TO BE BRASS.
9. CONTRACTOR MUST VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCING ANY WORK. HAND BASIN WASTE PIPES TO BE DROPPED INTO WALL.
10. PROVIDE FLEXIBLE JOINTS WHERE EXITING FROM UNDER SLAB. (ONLY IF REACTIVE SOIL TYPE)
11. FLEXIBLE EXPANSION JOINT TO BE 'PLASTIC'
12. PROVISIONAL DRAINAGE POINTS TO TERMINATE 100MM ABOVE FINISH SURFACE LEVEL.
13. BUCKET TRAPS TO BE SS STEEL METAL/CRAF AT 1-HST-HD OR GALVIN ENGINEERING DB4D0X8 OR AS APPROVED ALTERNATIVE.
14. A/C STAINLESS LINEAR DRAIN OUTLETS WITH BUCKET RIP OUTLET. DRAINS TO 5 STAR HEAL GUARD STAINLESS STEEL ANTI SLIP TYPE WITH P4 SLIP RATING
15. CAPPED/TERMINATES TO BE 1000 GULLYS FOR ALL FOR TUNDSH'S NOT DRAIN TO FLOOR WASTES.
16. ALL GRATED DRAINS TO BE A/C SYSTEM 100 STAINLESS STEEL CLASS B HEAL GUARD TYPE.

ALL LINEAR TRENCH DRAINS & FLOOR
WASTES TO BE CHARGED BY WASHDOWN
HOSE REELS IF NOT CHARGED BY OTHER
FIXTURES/TUNDISHES.



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INALA HOTEL
REFURBISHMENTS
189 FREEMAN ROAD
INALA, QLD 4077

drawing title

SUB FLOOR LEVEL DRAINAGE SERVICES LAYOUT

scale 1:100@A1	designed R.C.	drawn A.G.
project number 0571	drawing number H04 of	revision 1

WATER NOTE

- LOCATE AND CONNECT TO EXISTING 250 SERVICE SUSPENDED IN VOID. ALLOW ALL COSTS
- COORDINATE ALL WATER POINTS WITH KITCHEN CONTRACTORS, WHERE SERVICES CROSS THROUGH THE CENTRE, THE CONTRACTOR SHALL TAG THE PIPEWORK WITH SIGNAGE SO INTERCONNECTION DOES NOT OCCUR.
- INCOMING WATER SERVICES TO SUPPLY KITCHEN FIXTURES, ALLOW FOR SETOUT HEIGHTS OF TAPWARE, GAS POINTS ETC AS PER ARCHITECTS LAYOUTS.
- 15MM CW T/YCO RPZD'S TO BE BRACKETED ON WALL UNDER BENCH FOR COMBI OVEN AS REQUIRED BY BCC WITH SIGNAGE
- PROVIDE VALCHEQ 200 HW RPZD TO DISHWASHER, TO BE SUPPLIED VIA 20mm RPZD'S AS REQUIRED BY BCC
- HOT AND COLD WATER SERVICES TO RUN EXTERNAL ON WALL
- PROVIDE WASHDOWN REELS TO BE SUPPLIED BY RPZDS FROM TEMPERING VALVE HOT WATER SERVICE
- DROP & OFFSET PIPEWORK WITHIN CONDUIT, IN SLAB AND RISE IN JOINERY
- GAS SECOND STAGE REGULATOR TO STEP DOWN TO 7KPA, CONTRACTOR TO ALLOW FOR REGULATORS FOR EACH APPLIANCE.
- OFFSET PIPEWORK TO LEVEL BELOW AND RISE IN JOINERY
- ALLOW TO SUPPLY AND INSTALL SENSOR TAPS TO BASINS IN PREP/KITCHEN AREAS AS PER ARCHITECTS SPECIFICATION
- PROVIDE RETRACTABLE WASHDOWN REEL & ISOLATION SUPPLIED FROM SEPARATE HOT WATER RPZD. PROVIDE WITH NON-POTABLE SIGNAGE
- 40mm EMERGENCY GAS SHUT OFF VALVE TO BE INSTALLED ON WALL 1500mm ABOVE FINISH SURFACE LEVEL. VALVE MUST BE PROVIDED TO INTERLOCK SENSOR ON FRESH AIR EXHAUST TO COMPLY WITH AS56011 MECHANICAL CONTRACTOR TO COORDINATE WITH GAS FITTER.
- 36M FIRE HOSE REEL WITHIN CABINET INSTALL 25mm VALVCHQEQ DOUBLE CHECK VALE TO EACH HOSE REEL.
- DROP & OFFSET PIPEWORK WITHIN WALL
- WATER SERVICES TO RUN AT HIGH LEVEL IN CEILING SPACE.
- PROVIDE CLEANERS SINK WITH NON THREADED BIB TAPS.
- PROVIDE 150 RPZD'S TO COMBI OVEN. MOUNT RPZD'S AT LOW LEVEL ON WALL
- PROVIDE 20mm RMC OR EQUAL TEMPERING VALVE IN STAINLESS STEEL BOX AS PER SPECIFICATION SHOWN TO BASIN FIXTURES @50'C
- REPURPOSE EXISTING THIEMANN GAS HOTWATER UNI MOUNTED AT HIGH LEVEL ON WALL WITH BRACKET'S. COMPLETE WITH IV, CHV, PLV, TPRV. TPRV CONDENSATE TO DISCHARGE TO SAFETRAY. SAFETRAY OUTLET TO DISCHARGE TO TUNDISH.
- PROVIDE ZURN PR 500 20MM TRAP PRIMER TO THE TWO TUNDISH DRAINS SHOWN. ALLOW ALL COSTS

METER AND VALVE NOTE

ALL WATER SUBMETERS AND ISOLATION VALVES FOR EQUIPMENT SUCH AS HOT WATER UNITS. TO BE INSTALLED NO MORE THAN 1800MM AFFL AS PER COUNCIL REQUIREMENTS. MOUNTED ON WALL

ISOLATION OF SERVICES NOTE
AS2441 &AS3500.1

ISOLATION VALVES TO BE INSTALLED ON EACH FIXTURE BRANCH TO COMPLY WITH AS2441 & AS3500.1 WHERE HOSE REELS ON DOMESTIC SERVICE. NO ISOLATION OF MAIN SUPPLY WITHOUT VALVES BEING LOCKED OPEN (TYPICAL)

THERMOSTATIC MIXING VALVE NOTE

AREAS CONTRACTOR TO SUPPLY & INSTALL ENWARE AQUABLEND 1500 THERMOSTATIC VALVE WITH ISOLATION VALVES TO BE INSTALLED IN ACCESS BOX. UNLESS NOTED OTHERWISE

WITHIN SINGLE FIXTURES APPLICATIONS OR KITCHEN AN AQUABLEND 1000 MAY BE USED.

EXISTING SERVICES NOTE:

DUE TO LACK OF ACCURATE RECORDS. CONDITION OF EXISTING SERVICES IS UNKNOWN. EXISTING SERVICE LOCATIONS ARE INDICATIVE ONLY. CONTRACTOR TO CONFIRM ON SITE FOR VERIFICATION.

IMMEDIATELY ON RECEIPT OF AN ORDER EMPLY PIPE EYE OR AN EQUAL PIPE INSPECTION SERVICE TO SURVEY IN GROUND PIPEWORK TO CONFIRM:

- CONDITION
- LAYOUT
- DEPTHS AND FALL
- CONNECTION IS CORRECT

REDUNDANT SERVICES NOTE:

SEAL EXISTING REDUNDANT HYDRAULIC SERVICES IN ACCORDANCE WITH RELEVANT CODES AND LOCAL AUTHORITY REQUIREMENTS. REMOVE REDUNDANT SERVICES WHERE INTERFERING WITH NEW SERVICES AND SEAL AT THE SOURCE OF ITS INSTALLATION.

CONCRETE CUTTING NOTE:

EXTENT OF SLAB TO BE SAW CUT & TRENCH TO BE DUG FOR THE INSTALLATION OF NEW 1000 SANITARY DRAINAGE PIPEWORK. ALL CUTTING OF SLAB TO BE APPROVED BY STRUCTURAL ENGINEER BEFORE START OF WORK.

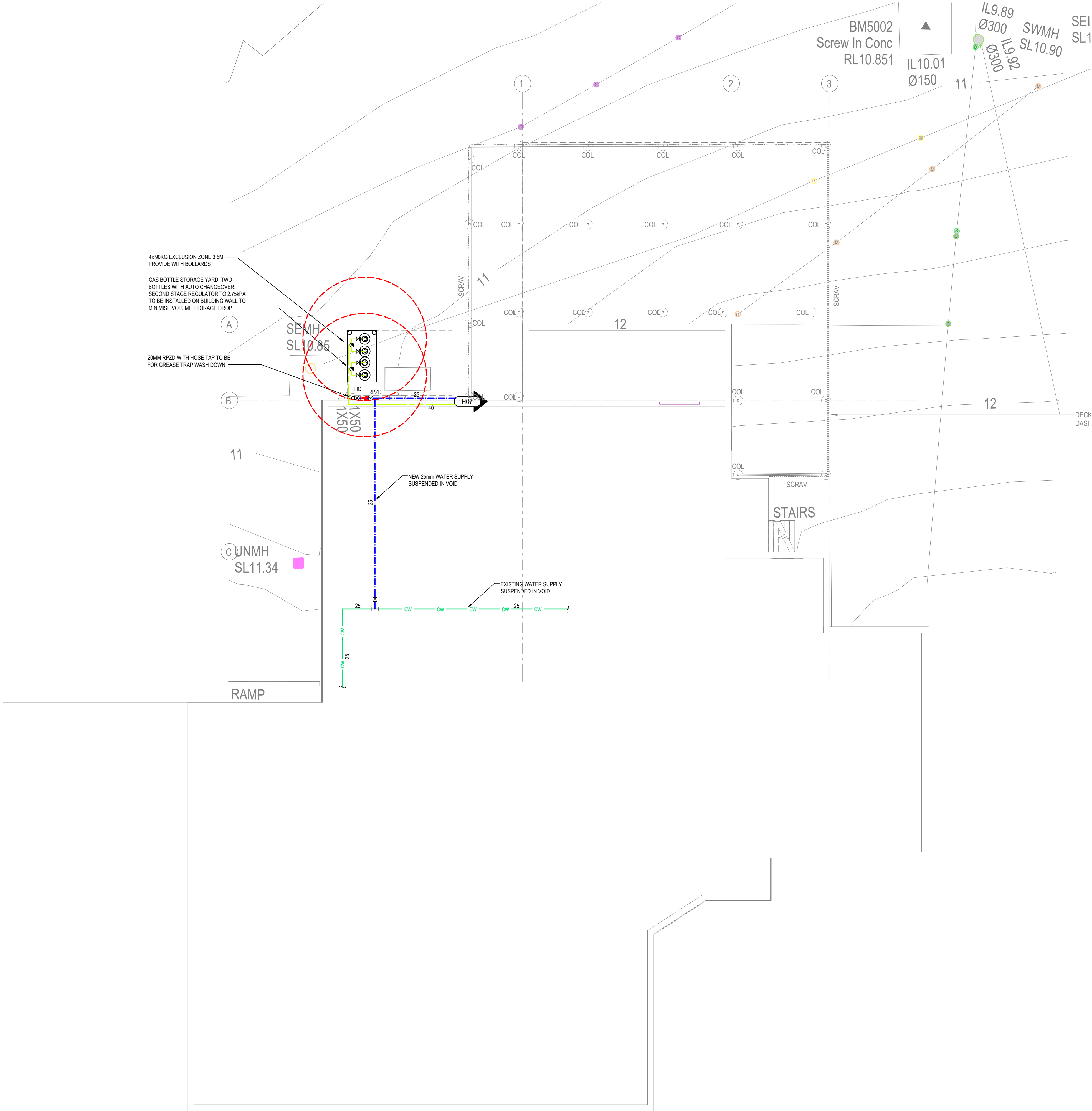
HOSE TAP NOTE

ALL HOSE TAPS TO BE ANTI VANDAL HANDLE TYPE WITH SIGNAGE WHERE NON POTABLE. MOUNTED AT 1500MM ABOVE FLOOR LEVEL WHERE NOTED

PIPE MATERIALS SIZING

UNLESS NOTED OTHERWISE ALL PIPE SIZES ARE BASED ON DIAMETER NOMINAL ON COPPER MATERIAL. THE CONTRACTOR MUST MAKE SIZE ADJUSTMENTS TO SUIT VARYING POLY PIPES.

HOT WATER FLOW AND RETURN MATERIAL MUST BE COPPER DUE TO HEAT RANGE.



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client

Australian
Venue Co.

architect

project

INALA HOTEL
REFURBISHMENTS
189 FREEMAN ROAD
INALA, QLD 4077

drawing title

SUB FLOOR PROPOSED
WATER & GAS
SERVICES LAYOUT

HYDRAULIC SERVICES

scale	designed	drawn
1:100@A1	R.C.	A.G.
project number	drawing number	revision
0571	H05	1

CLASS E SOIL CLASSIFICATION

WITHOUT AVAILABLE GEOTECH REPORT. THIS SITE HAS BEEN CLASSED EXTREMELY REACTIVE (CLASS E) 150MM YS AS PER THE PLUMBING NEWSFLASH 569 SWIVEL AND EXPANSION JOINTS HAVE BEEN ADDED FOR MAXIMUM POTENTIAL MOVEMENT.
ALLOW TO INSTALL FITTING AT EXISTING CONNECTION AS SHOWN. REFER TO DETAIL ON THE INSTALLATION OF THE FITTINGS AS REQUIRED BY MANUFACTURER. ALLOW SUITABLE FALLS FOR THE EXPANSION AND CONTRACTION AS PER THE INVERT LEVELS SHOWN.

EXISTING SERVICES NOTE:

DUE TO LACK OF EXISTING RECORDS, POSITION & CONDITION OF EXISTING SERVICES IS UNKNOWN, EXISTING SERVICE LOCATIONS ARE INDICATIVE ONLY. CONTRACTOR TO CONFIRM ON SITE FOR VERIFICATION.

IMMEDIATELY ON RECEIPT OF AN ORDER EMPLOY PIPE EYE OR AN EQUAL PIPE INSPECTION SERVICE TO SURVEY IN GROUND PIPEWORK TO CONFIRM:

- CONDITION
- LAYOUT
- DEPTHS AND FALL
- CONNECTION IS CORRECT

CAMERA INSPECTION & DLAP REPORT

DUE TO LACK OF EXISTING DRAINAGE PLANS. CONTRACTOR TO PROVIDE CAMERA INSPECTION OF EXISTING SANITARY DRAINAGE TO CONFIRM DEPTHS, POSITION AND CONDITION OF PIPE WORK. THIS IS TO BE CONDUCTED PRIOR TO COMMENCEMENT OF PROPOSED WORKS AND AVOID POTENTIAL CONSTRUCTION CLASHES.

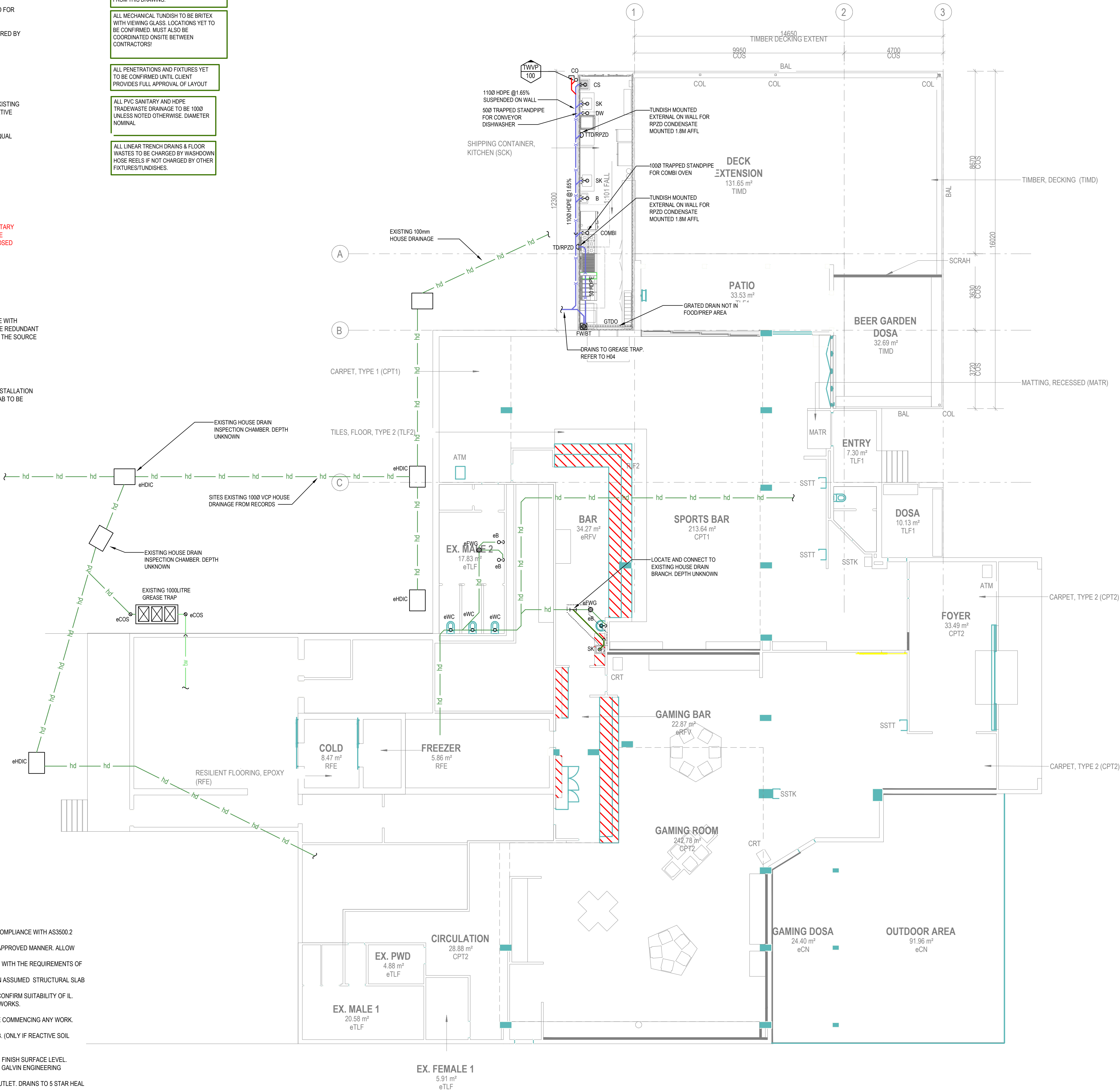
REDUNDANT SERVICES NOTE:

SEAL EXISTING REDUNDANT HYDRAULIC SERVICES IN ACCORDANCE WITH RELEVANT CODES AND LOCAL AUTHORITY REQUIREMENTS. REMOVE REDUNDANT SERVICES WHERE INTERFERING WITH NEW SERVICES AND SEAL AT THE SOURCE OF ITS INSTALLATION.

CONCRETE CUTTING NOTE:

EXTENT OF SLAB TO BE SAW CUT & TRENCH TO BE DUG FOR THE INSTALLATION OF NEW 1000 SANITARY DRAINAGE PIPEWORK. ALL CUTTING OF SLAB TO BE APPROVED BY STRUCTURAL ENGINEER BEFORE START OF WORK.

- REFER TO ARCHITECTURAL DRAWINGS FOR SETOUT PLAN OF FIXTURES! DO NOT SCALE FROM THIS DRAWING.
- ALL MECHANICAL TUNDISH TO BE BRITEX WITH VIEWING GLASS. LOCATIONS YET TO BE CONFIRMED. MUST ALSO BE COORDINATED ONSITE BETWEEN CONTRACTORS!
- ALL PENETRATIONS AND FIXTURES YET TO BE CONFIRMED UNTIL CLIENT PROVIDES FULL APPROVAL OF LAYOUT
- ALL PVC SANITARY AND HDPE TRADEWASTE DRAINAGE TO BE 1000 UNLESS NOTED OTHERWISE. DIAMETER NOMINAL
- ALL LINEAR TRENCH DRAINS & FLOOR WASTES TO BE CHARGED BY WASHDOWN HOSE REELS IF NOT CHARGED BY OTHER FIXTURES/TUNDISHES.



STORMWATER NOTE

REFER TO THE CIVIL ENGINEERS DRAWINGS FOR ALL SURFACE WATER TREATMENT AND LANDSCAPE DRAINAGE REQUIREMENTS. REFER TO CIVIL DRAWINGS FOR ALL INFORMATION

DRAINAGE NOTE

1. PROVIDE NEW DRAINAGE SERVICES TO FIXTURES SHOWN IN COMPLIANCE WITH AS3500.2 AND COUNCIL REQUIREMENTS.
2. LOCATE AND CONNECT TO EXISTING HOUSE DRAINAGE IN AN APPROVED MANNER. ALLOW ALL COSTS.
3. ALL MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE RELEVANT AUTHORITIES.
4. SSL SHOWN IS ASSUMED ONLY. INVERT LEVELS ARE BASED ON ASSUMED STRUCTURAL SLAB LEVEL FOR DESIGN PURPOSES ONLY.
5. ALLOW TO EXCAVATE FOR AND LOCATE EXISTING SEWER TO CONFIRM SUITABILITY OF IL FOR CONNECTION PRIOR TO COMMENCEMENT OF DRAINAGE WORKS.
6. CLEAROUTS TO BE BRASS.
7. CONTRACTOR MUST VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCING ANY WORK.
8. HAND BASIN WASTE PIPES TO BE DROPPED INTO WALL.
9. PROVIDE FLEXIBLE JOINTS WHERE EXITING FROM UNDER SLAB. (ONLY IF REACTIVE SOIL TYPE)
10. FLEXIBLE EXPANSION JOINT TO BE 'PLASTEC'
11. PROVISIONAL DRAINAGE POINTS TO TERMINATE 100MM ABOVE FINISH SURFACE LEVEL.
12. BUCKET TRAPS TO BE SS STEEL METALCRAFT AT-1-HST-HD OR GALVIN ENGINEERING DB400X OR AS APPROVED ALTERNATIVE.
13. ACO STAINLESS LINEAR DRAIN OUTLETS WITH BUCKET TRIP OUTLET. DRAINS TO 5 STAR HEAL GUARD STAINLESS STEEL ANTISLIP TYPE WITH P4 SLIP RATING
14. TRAPPED STANDPIPES TO BE 1000 GULLY'S FOR FOR ALL TUNDISH'S NOT DRAINING TO FLOOR WASTES.
15. ALL GRATED DRAINS TO BE ACO SYSTEM 100 STAINLESS STEEL CLASS B HEAL GUARD TYPE.

DRAINAGE PLAN No: 38139

RPD: LOT 1 ON RP99594

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LIMITED

LGA: BRISBANE



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GROUND FLOOR LEVEL
DRAINAGE
SERVICES LAYOUT

HYDRAULIC SERVICES

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1:100@A1	R.C.	A.G.
project number	drawing number	revision
0571	H06 of	1

WATER NOTE

1. LOCATE AND CONNECT TO EXISTING 250 SERVICE SUSPENDED IN VOID. ALLOW ALL COSTS
2. COORDINATE ALL WATER POINTS WITH KITCHEN CONTRACTORS, WHERE SERVICES CROSS THROUGH THE CENTRE. THE CONTRACTOR SHALL TAG THE PIPEWORK WITH SIGNAGE SO INTERCONNECTION DOES NOT OCCUR.
3. INCOMING WATER SERVICES TO SUPPLY KITCHEN FIXTURES. ALLOW FOR SETOUT HEIGHTS OF TAPWARE, GAS POINTS ETC AS PER ARCHITECTS LAYOUTS.
4. 15MM CW TYCO RPZD'S TO BE BRACKETED ON WALL UNDER BENCH FOR COMBI OVEN AS REQUIRED BY BCC WITH SIGNAGE.
5. PROVIDE VALCHEQ 200 HW RPZD TO DISHWASHER. TO BE SUPPLIED VIA 20mm RPZD'S AS REQUIRED BY BCC
6. HOT AND COLD WATER SERVICES TO RUN EXTERNAL ON WALL
7. PROVIDE WASHDOWN REELS TO BE SUPPLIED BY RPZDS FROM TEMPERING VALVE HOT WATER SERVICE.
8. DROP & OFFSET PIPEWORK WITHIN CONDUIT, IN SLAB AND RISE IN JOINERY
9. GAS SECOND STAGE REGULATOR TO STEP DOWN TO 7KPA, CONTRACTOR TO ALLOW FOR REGULATORS FOR EACH APPLIANCE.
10. OFFSET PIPEWORK TO LEVEL BELOW AND RISE IN JOINERY
11. ALLOW TO SUPPLY AND INSTALL SENSOR TAPS TO BASINS IN PREPKITCHEN AREAS AS PER ARCHITECTS SPECIFICATION
12. PROVIDE RETRACTABLE WASHDOWN REEL & ISOLATION SUPPLIED FROM SEPARATE HOT WATER RPZD. PROVIDE WITH NON-POTABLE SIGNAGE
13. 40mm EMERGENCY GAS SHUT OFF VALVE TO BE INSTALLED ON WALL. 1500mm ABOVE FINISH SURFACE LEVEL. **VALVE MUST BE PROVIDED TO INTERLOCK SENSOR ON FRESH AIR EXHAUST TO COMPLY WITH AS56011 MECHANICAL CONTRACTOR TO COORDINATE WITH GAS FITTER.**
14. 36M FIRE HOSE REEL WITHIN CABINET INSTALL 25mm VALVCHQ DOUBLE CHECK VALE TO EACH HOSE REEL.
15. DROP & OFFSET PIPEWORK WITHIN WALL
16. WATER SERVICES TO RUN AT HIGH LEVEL IN CEILING SPACE.
17. PROVIDE CLEANERS SINK WITH NON THREADED BIB TAPS.
18. PROVIDE 150 RPZD'S TO COMBI OVEN. MOUNT RPZD'S AT LOW LEVEL ON WALL
19. PROVIDE 20mm RMC OR EQUAL TEMPERING VALVE IN STAINLESS STEEL BOX AS PER SPECIFICATION SHOWN TO BASIN FIXTURES @50°C
20. REPURPOSE EXISTING THERMANN GAS HOTWATER UNI MOUNTED AT HIGH LEVEL ON WALL WITH BRACKETS. COMPLETE WITH IV, CHV, PLV, TPRV. TPRV CONDENSATE TO DISCHARGE TO SAFETRAY. SAFETRAY OUTLET TO DISCHARGE TO TUNDISH.
21. PROVIDE ZURN PR 500 20MM TRAP PRIMER TO THE TWO TUNDISH DRAINS SHOWN. ALLOW ALL COSTS

METER AND VALVE NOTE

ALL WATER SUBMETERS AND ISOLATION VALVES FOR EQUIPMENT SUCH AS HOT WATER UNITS. TO BE INSTALLED NO MORE THAN 1800MM AFFL AS PER COUNCIL REQUIREMENTS. MOUNTED ON WALL

ISOLATION OF SERVICES NOTE
AS2441 &AS3500.1

ISOLATION VALVES TO BE INSTALLED ON EACH FIXTURE BRANCH TO COMPLY WITH AS2441 & AS3500.1 WHERE HOSE REELS ON DOMESTIC SERVICE. NO ISOLATION OF MAIN SUPPLY WITHOUT VALVES BEING LOCKED OPEN (TYPICAL)

THERMOSTATIC MIXING VALVE NOTE

AREAS CONTRACTOR TO SUPPLY & INSTALL ENWARE AQUABLEND 1500 THERMOSTATIC VALVE WITH ISOLATION VALVES TO BE INSTALLED IN ACCESS BOX. UNLESS NOTED OTHERWISE

WITHIN SINGLE FIXTURES APPLICATIONS OR KITCHEN AN AQUABLEND 1000 MAY BE USED.

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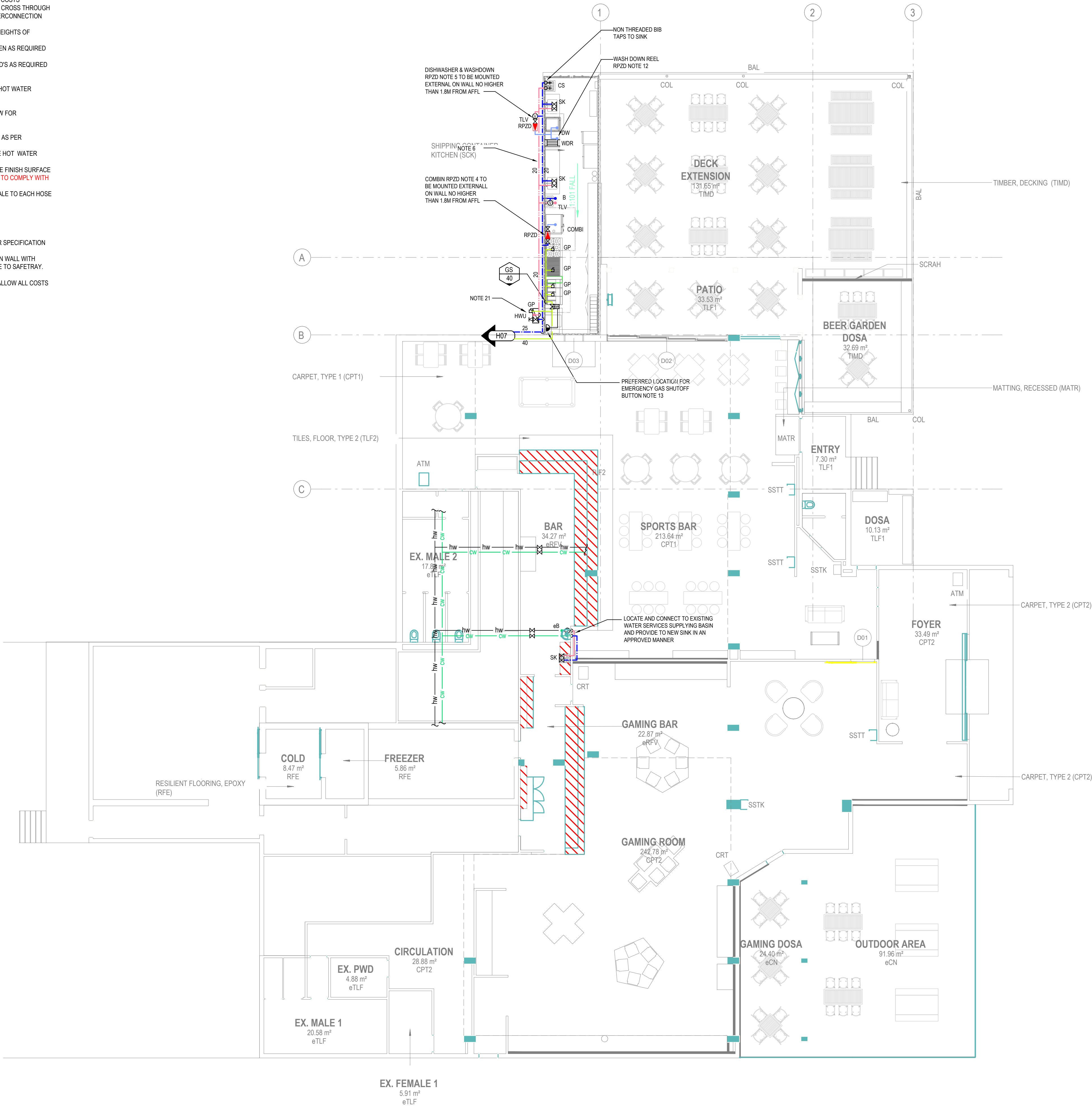
HOSE TAP NOTE

ALL HOSE TAPS TO BE ANTI VANDAL HANDLE TYPE WITH SIGNAGE WHERE NON POTABLE. MOUNTED AT 1500MM ABOVE FLOOR LEVEL WHERE NOTED

PIPE MATERIALS SIZING

UNLESS NOTED OTHERWISE ALL PIPE SIZES ARE BASED ON DIAMETER NOMINAL ON COPPER MATERIAL. THE CONTRACTOR MUST MAKE SIZE ADJUSTMENTS TO SUIT VARYING POLY PIPES.

HOT WATER FLOW AND RETURN MATERIAL MUST BE COPPER DUE TO HEAT RANGE.



DRAINAGE PLAN No: 38139

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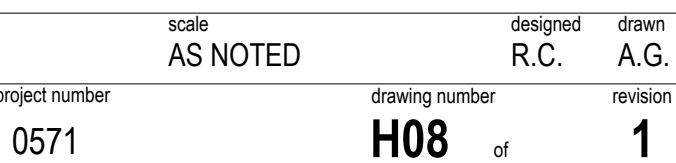
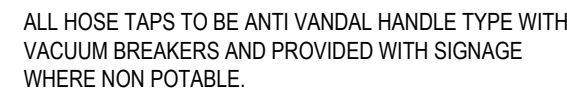
INALA HOTEL
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GROUND LEVEL PROPOSED
WATER & GAS
SERVICES LAYOUT

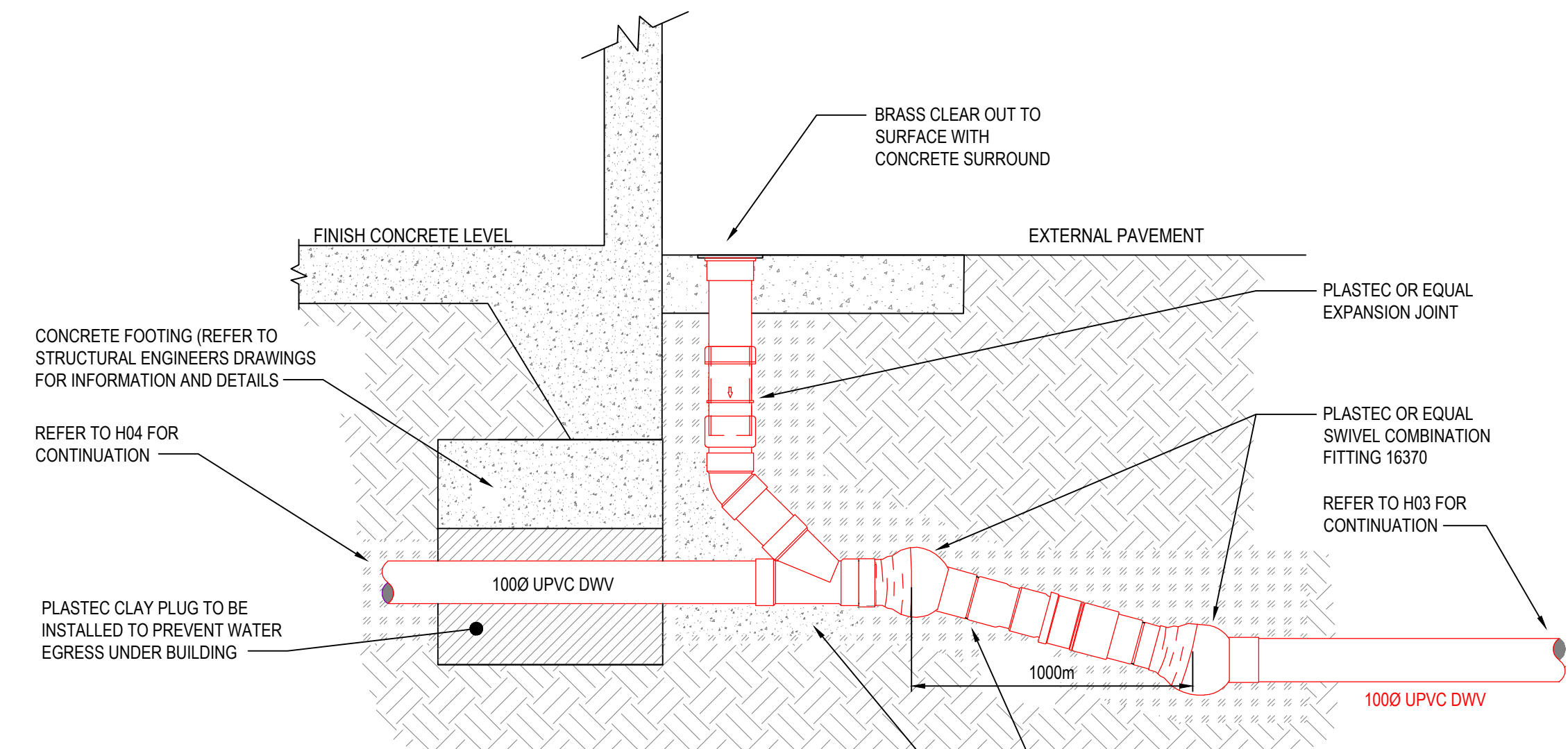
HYDRAULIC SERVICES

scale	designed	drawn
1:100@A1	R.C.	A.G.
project number	drawing number	revision
0571	H07	1



GUIDELINES FOR DESIGN & INSTALLATION OF SWIVEL/EXPANSION JOINTS

1. NOTES : THE FOLLOWING NOTES AND DETAILS PROVIDED ARE A GUIDE ONLY FOR SANITARY PLUMBING, DRAINAGE AND SHOULD BE READ IN CONJUNCTION WITH AS/NZS3500, AS 2870 AND ANY OTHER ELEVANT STANDARD.
2. ALL DRAINS INSTALLED IN GROUND THAT IS FILLED, UNSTABLE, CONTAINS EXPANSIVE CLAYS (E.G. M, H, E AND P SITES) OR WATER CHARGED AND WHERE SOIL MOVEMENT MAY EFFECT THE PERFORMANCE OF ANY DRAIN, A PLAN AND SPECIFICATION TOGETHER WITH A SOIL REPORT AND CALCULATIONS SHOWING METHODS TO PROTECT THE DRAINAGE SHALL BE LODGED WITH THE LOCAL AUTHORITY INCLUDING THE REQUIREMENTS OF THE COMPLIANCE PERMIT AND ASSESSMENT.
3. ALL PLUMBING TO BE CONSTRUCTED IN ACCORDANCE WITH AS/NZS 3500 AND HE REQUIREMENTS OF AS 2870 SECTION 5 : CLAUSE 5.5 AND SECTION 6: CLAUSE 6.6. ARTICULATION AND EXPANSION JOINTS ARE TO BE PROVIDED TO ACCOMMODATE MOVEMENT IN ALL PIPE WORK WITHIN 3 METRES OF THE DWELLING AND COMPLY WITH AS1260.
4. PLUMBING AND DRAINAGE UNDER THE SLAB SHOULD BE AVOIDED WHERE PRACTICAL (REFER AS/NZS 3500 CLAUSE 4.10).
5. GRADES IN PIPE WORK ON M, H, AND P SITES SHALL HAVE MINIMUM GRAD OF 1 IN 30 WITHIN 1.5 METRES OF BUILDING AND 1 IN 60 ELSEWHERE. GRADES IN FLEXIBLE FITTINGS TO BE SET AT MINIMUM GRADE.
6. ALL EXPANSION AND ARTICULATION JOINTS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. ALL JOINTS TO BE SET MID POINT SO AS TO ALLOW FOR MAXIMUM IN EITHER DIRECTION.
7. PLASTEC "SWIVEL JOINTS" SHALL NOT BE USED AS A BEND TO ACHIEVE CORRECT FALLS. THE JOINTS SHALL BE SET IN A STRAIGHT LINE OF THE DRAIN TO ALLOW MAXIMUM (+) OR (-) MOVEMENT. A MINIMUM 15° BEND TO BE INSTALLED BEFORE SWIVEL JOINTS TO ACHIEVE MINIMUM GRADES FROM THE FACE OF THE FOOTINGS.
8. DETAIL AND SUPPORT OF TRAPS AT THE O.R.G. TO BE CONSIDERED ON SITE, TO ALLOW FOR POTENTIAL MOVEMENTS INCLUDING ISOLATION AND ARTICULATION ASSOCIATED WITH PATHS AND PAVEMENTS. THE O.R.G. SHALL BE CAST IN CONCRETE MONOLITHICALLY WITH THE FOOTING SYSTEM ON CLASS H AND E SITES.
9. ALL PVC PIPE WORK PASSING THROUGH CONCRETE MUST HAVE 8mm LAGGING.
10. STORM WATER SYSTEMS THAT COLLECT ROOF WATER AND SURFACE WATER ARE REQUIRED TO BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH AS/NZS 3500 PART 5.
11. THE USE OF CORRUGATED FLEXIBLE PVC PIPE PRODUCTS SHALL BE AVOIDED ON CLASS H AND E SITES AS THEY ARE NOT ABLE TO EXPAND LONGITUDINALLY TO ACCOMMODATE POTENTIAL VERTICAL & LATERAL MOVEMENTS AT THE SLAB OR FOOTING EDGE UNLESS SPECIFICALLY DETAILED BY THE MANUFACTURER.
12. ALL JOINTS IN STORM WATER PIPES 3 METRES OF THE HOUSE UNDER CONSTRUCTION SHALL BE ARTICULATED TO ACCOMMODATE GROUND MOVEMENTS WITHOUT LEAKAGE.
13. SEPTIC TANKS AND ASSOCIATED SOAKAGE AREAS SHALL BE LOCATED TO MINIMISE SOIL MOISTURE INCREASES WITHIN THE FOUNDATION. JOINTS IN PLUMBING PIPES WITHIN 3 METRES OF THE HOUSE UNDER CONSTRUCTION SHALL BE ARTICULATED TO ACCOMMODATE GROUND MOVEMENTS WITHOUT LEAKAGE. SEPTIC TANKS IN PARTICULAR REQUIRE CAREFUL DETAILING.
14. ALL PIPE WORK INCLUDING STORM WATER FITTINGS AND ADAPTERS SHALL BE PROTECTED FROM MECHANICAL DAMAGE.
15. TERMITE PROTECTION NOT SHOWN ON THESE DRAWINGS AS THERE ARE VARIOUS OPTIONS. REFER TO BUILDING DESIGNER.
16. EXPECTED MINIMUM REQUIREMENTS FOR EXPANSION AND ALLOWABLE RELATION IN FITTINGS AS FOLLOWS:



TYPICAL FOOTING PENETRATION SWIVEL & EXPANSION JOINT NOT TO SCALE

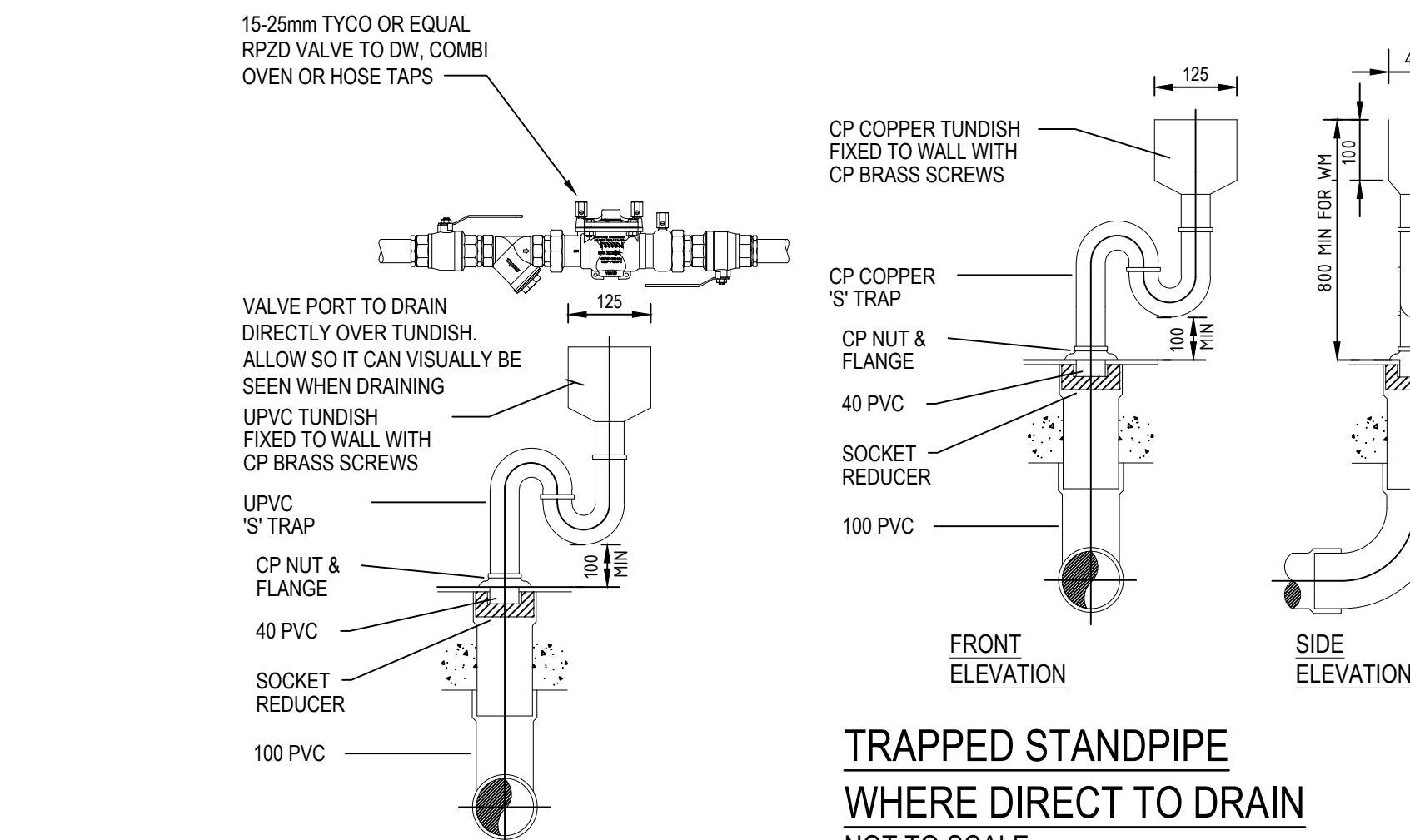
SITE CLASS	MIN. REQUIRED EXPANSION JOINT CAPACITY	ALLOWABLE ROTATION
"E"	150mm	15°
"H"	70mm	15°
"P"	70mm PLUS ADDITIONAL REQUIREMENTS IN THE CASE OF FILL (MIN. DEPENDANT ON SITE CONDITIONS).	15°
"M"	MIN. 20mm LAGGING THROUGH FOOTINGS	NOT APPLICABLE

CLASS E SOIL CLASSIFICATION

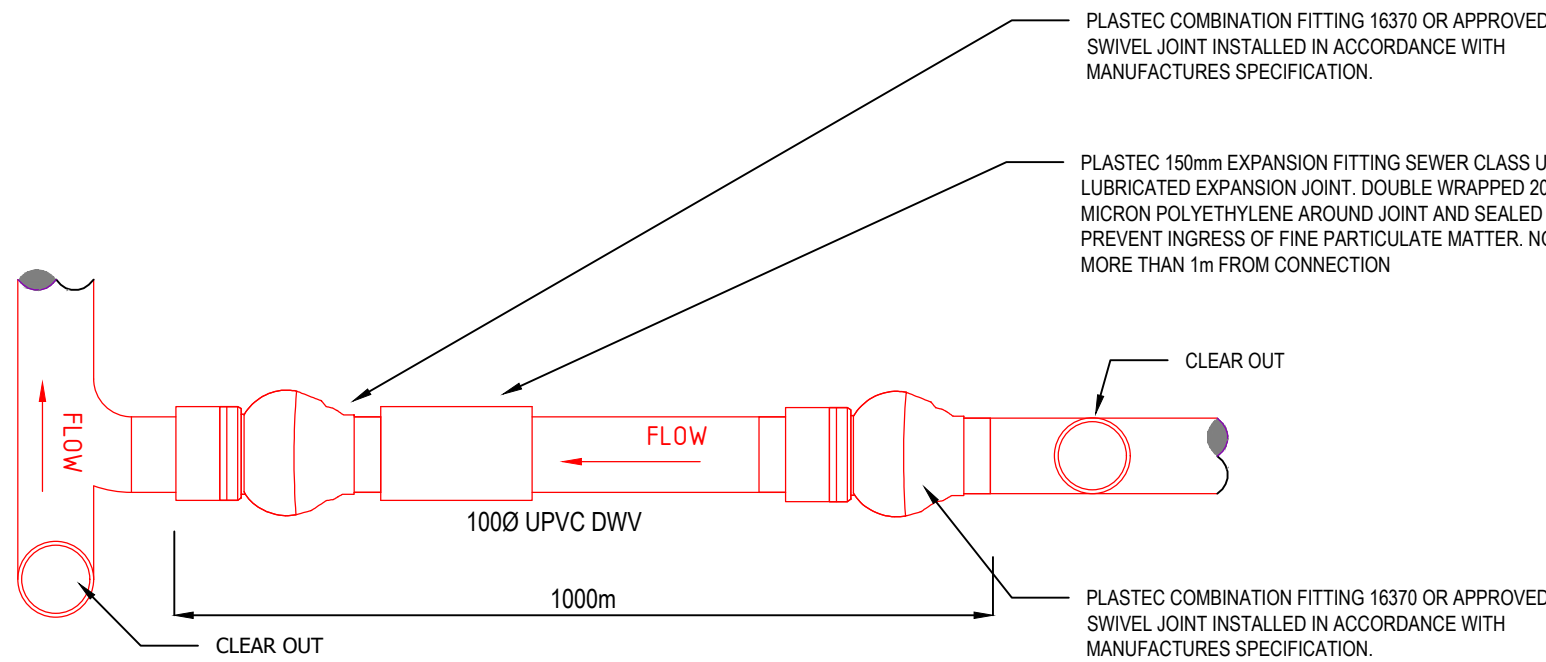
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NO INGROUND DRAINAGE PROPOSED OR DRAINAGE EXTERNAL OF BUILDING LINE. NO ARTICULATION REQUIRED!

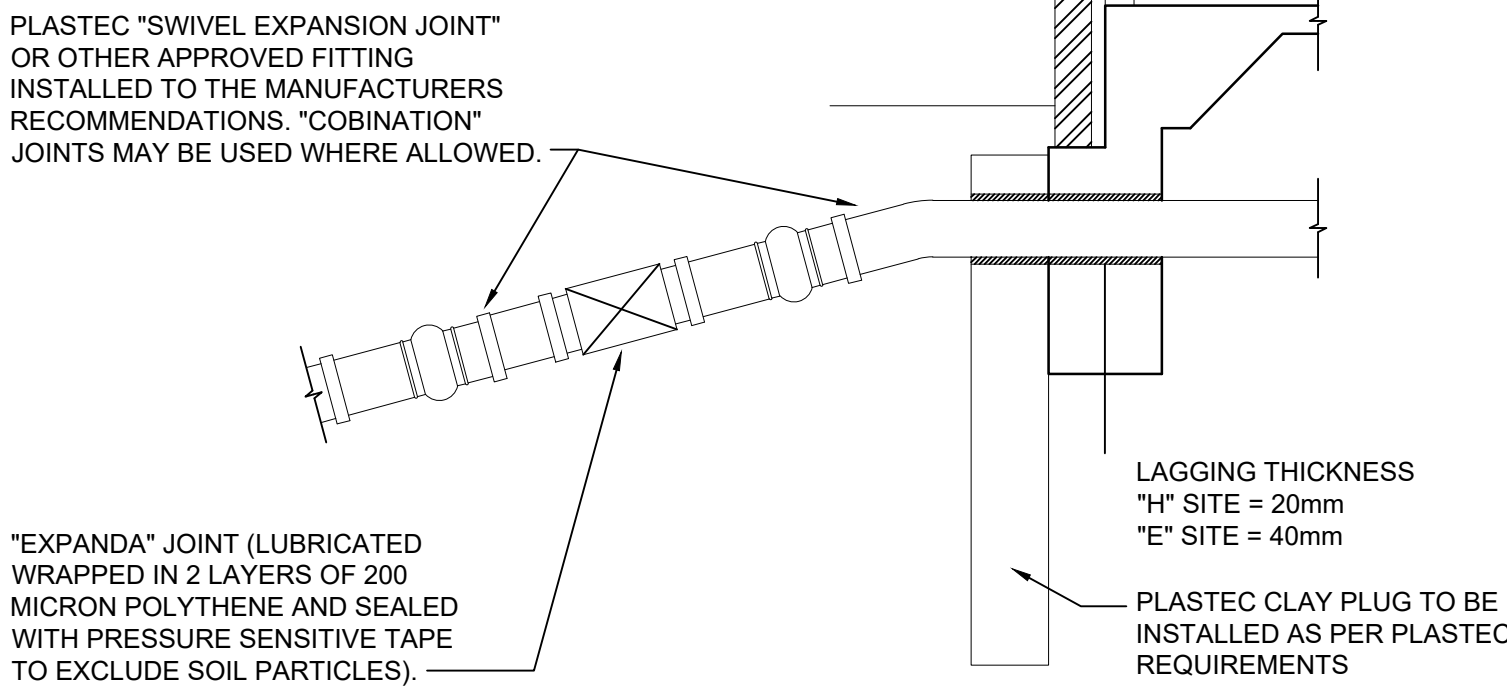
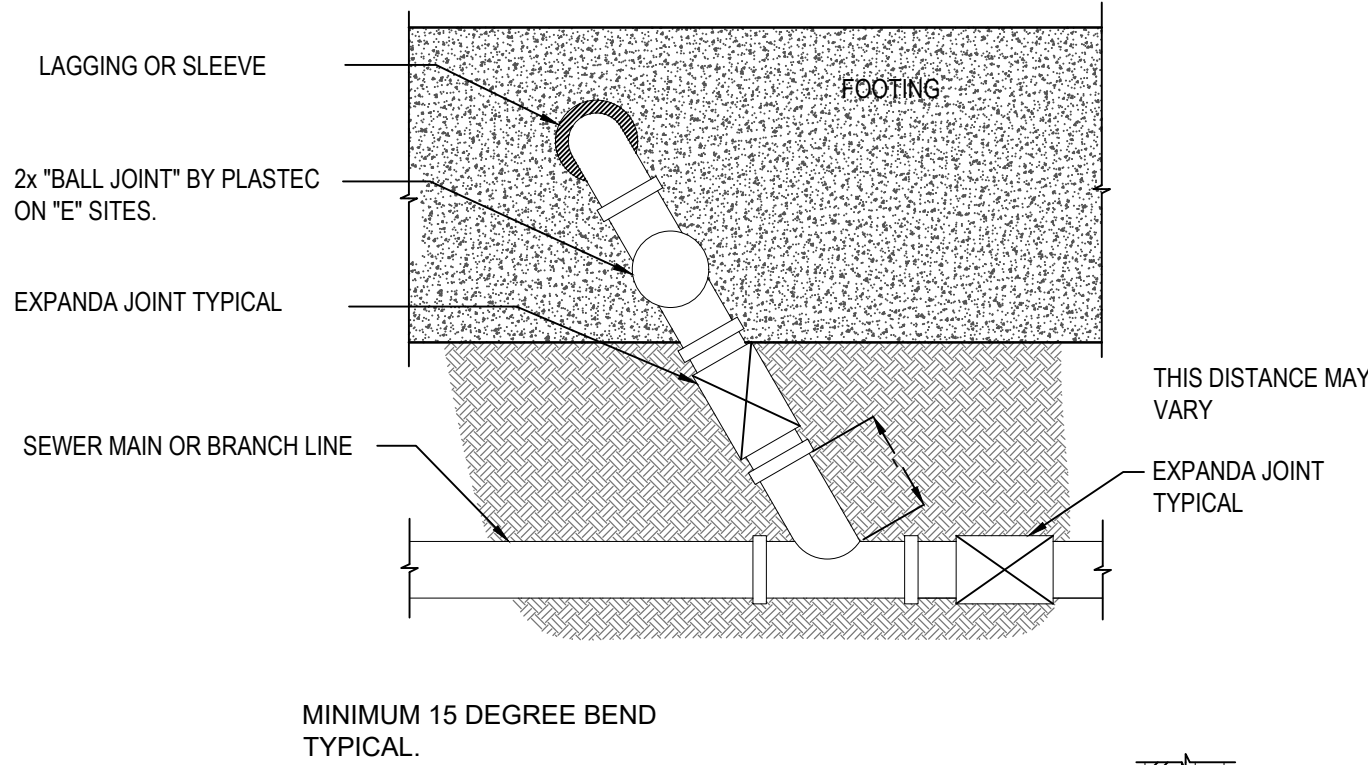
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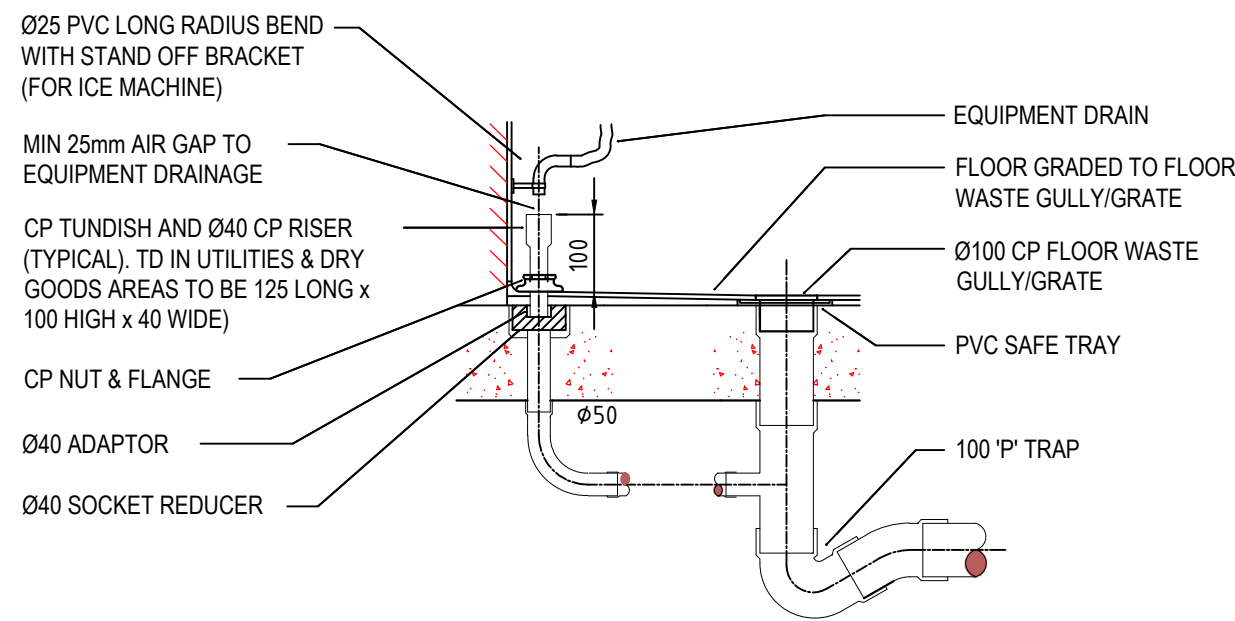
RPZD OVER TUNDISH DETAIL NOT TO SCALE



TYPICAL ARTICULATION CONNECTING TO EXISTING SWIVEL & EXPANSION JOINT NOT TO SCALE



BRANCH LINE DETAIL WITH EXPANSION JOINT NOT TO SCALE

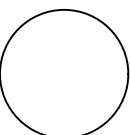


TUNDISH DETAIL TO FLOOR WASTE NOT TO SCALE

DRAINAGE PLAN No: 38139 RPD: LOT 1 ON RP99594

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DRAINAGE ARTICULATION & DETAILS

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NOT TO SCALE	R.C.	A.G.
project number	drawing number	revision
0571	H09 of	1