

TAKEAWAY SHOP

GENERAL NOTES:

1. These drawings are a guide only for the location and layout of the service pipes.
2. Do not scale from these drawings. Refer to architectural drawings for all setout dimensions.
3. These drawings are to be read in conjunction with the architectural specification and drawings for the final selection and position of fixtures and fittings.
4. Location of existing services have been determined from site visits and existing record plans. No proving of services has been undertaken.
5. The contractor is to verify all invert levels, surface levels, clearances and covers are correct and obtainable before commencement of any works. Notify Aqualogical of any issues prior to installation.
6. All works are to be constructed in accordance with the Australian Standards, Plumbing and Drainage Act 2018, BCA (Building Code of Australia), PCA (Plumbing Code of Australia) and to the approval of the local authority.
7. All materials shall be in accordance with the Plumbing Code of Australia, AS/NZS3500, and the relevant Australian Standards.
8. All existing services which are no longer required shall be removed or sealed off to the satisfaction of the local authority.
9. The contractor shall pay all fees in association with construction costs, required tests and inspections
10. The contractor shall allow all costs associated with the preparation of the as constructed drawings to the satisfaction of the supervisor on completion of the project. A suitable time frame shall be allowed for documentation of as constructed drawings.
11. The contractor shall make themselves familiar with all site constraints through a site visit prior to final tender submission.
12. The contractor shall co-ordinate all pipework with the other trade services prior to commencement of any work.
13. When applicable: Allow all costs for work to be undertaken outside of normal trading hours in accordance with centre management requirements.
14. Allow all costs associated with the hiring of security personnel while working in adjacent tenancies.
15. Building works, removal and reinstatement of ceilings by others.
16. Allow all costs to cut concrete, excavate, lay pipe and reinstat.
17. Structural approval is required prior to commencement of works.
18. Allow all costs to repair and make good any services disturbed or damaged during construction with similar materials to suit existing. The contractor is to clean the site and remove surplus debris and material to the satisfaction of the supervisor on completion.
19. All services are to be tested & final certificate provided prior to handover.
20. All pipe sizes shown on these plans are internal diameters (ID) UNO
21. All cold water reticulation pipework shall be 15mm supply to a single fixture and 20mm to two or more fixtures UNO. The length of a 15mm branch shall not exceed 3 metres.
22. All hot water, cold water and waste pipework exposed to public view within the tenancy to be installed in chrome plated copper.
23. Water services pipework shall be copper tube type B and/or cross-linked high-density polyethylene (PE-X). All pipework sizes shown are internal pipework sizes UNO. Denso wrap copper pipework where in ground. PE-X pipework to be run inside a conduit where in ground. All pipe sizes shown are internal pipework dimensions. UNO
24. All hot water service pipework to be insulated.
25. All hot water and cold water services shall be pressure tested to 1500kPa during installation and be free of leaks prior to being built in or concealed.
26. All pipework shall be identified with adhesive pipe markers in accordance with AS1345.
27. All control valves shall be located on site in an accessible position and be fitted with identification plates outlining function.
28. All pipework on walls in food premises shall be installed a minimum of 25mm off walls & floors for cleaning purposes.
29. Supply and install:
Sanitary Plumbing / Drainage: PVC to AS/NZS 1260
Trade Waste: HDPE-fusion welded to AS/NZS4401
30. Fire stop collars to be installed on all plastic pipe work penetrating through all fire zones.
31. All fixtures, fittings, associated materials and installation costs required for installation and correct operation shall be supplied by the contractor.
32. Allow all costs to install swivel joints & expansion joins to all pipework installed in unstable ground in accordance with AS 3500.2 clause 5.6.
33. The location of all existing services have been determined from existing hydraulic plans & known positions of existing valves, manholes, etc. No responsibility is taken for the accuracy of the existing services information supplied. The Plumbing Contractor is to ensure all services are accurately located prior to commencement of work.
34. All fittings & tapware to be WELS rated.

SOIL REPORT

SITE CLASSIFICATION	E
SOIL PROPERTIES	
Ys RANGE	
SOIL REPORT COMPANY:	
DOCUMENT NUMBER:	
DATE OF REPORT:	

THERE IS NO SITE CLASSIFICATION REPORT AVAILABLE FOR THIS PROJECT. SO THE PLUMBING ARTICULATION IS DESIGNED TO THE MAXIMUM POTENTIAL MOVEMENT OF 'E'

PLUMBING FIXTURES

	Description	Fixture Discharge Pipe Size (UNO)	Comments	Fixture Units	Total FU	No
B	Basin, Single Bowl	40Ø		1	2	2
COMBI	Combi Oven	50Ø		3	3	1
CSK	Cleaners Sink, Single Bowl	50Ø		1	1	1
DSK	Sink, Double Bowl	50Ø		3	3	1
DSK2	Sink, Double Bowl (Second Bowl)	50Ø		0	0	1
DW	Dish Washer	50Ø		3	3	1
GW	Glass Washer			0	0	1
SK	Sink, Single Bowl	50Ø		3	6	2
TD	Tundish, 40Ø	40Ø	(COLD ROOM)	0	0	1
TD	Tundish, 40Ø	40Ø	(IM)	0	0	1
				18	12	

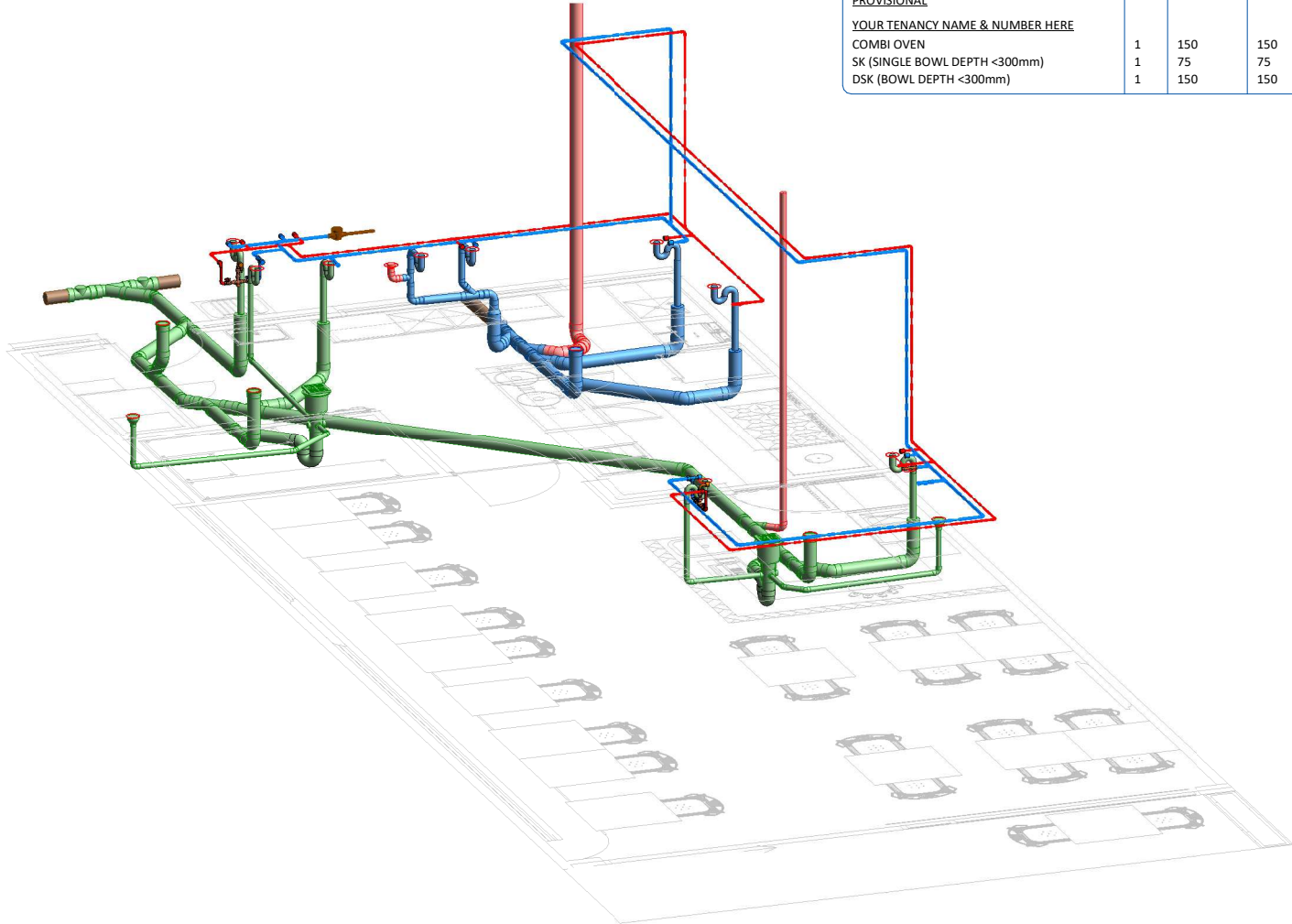
PIPE SYSTEMS & MATERIALS

	Description	Material	Type Image
CW	Cold Water	Copper	CW-20Ø
eCW	Existing Cold Water	Copper	eCW-20Ø
eSD	Existing Sanitary Drainage	PVC	eSD-100Ø
eTW	Existing Trade Waste	HDPE	eTW-100Ø
HW	Hot Water	Copper	HW-20Ø
SD	Sanitary Drainage	PVC	SD-100Ø
TW	Trade Waste	HDPE	TW-100Ø
VP	Vent Pipe	PVC	VP-100Ø

FOOD RETAILING: GIT

PROPOSED TRADE WASTE LOADINGS

TENANCY No.	#	CAPACITY	TOTAL CAPACITY	TENANCY TOTAL	PEAK WORKING CAPACITY L/H	ARRESTOR CAPACITY L
PROVISIONAL				500		
YOUR TENANCY NAME & NUMBER HERE						
COMBI OVEN	1	150	150			
SK (SINGLE BOWL DEPTH <300mm)	1	75	75			
DSK (BOWL DEPTH <300mm)	1	150	150	750	1,250	3,000



PROJECT OVERVIEW

NOT TO SCALE

LEGEND

3D	3 Dimensional
AFFL	Above Finished Floor Level
CTE	Connection to Existing
DN	Nominal Diameters
DWVG	Drawing
e	Existing
FFL	Finished Floor Level
HP	High Point
IL	Invert Level
min	Minimum
PDP	Provisional Drainage Point
PWP	Provisional Water Point
RL	Reduced Level
SL	Surface Level
TYP	Typical Unless Noted Otherwise
UNO	Unless Noted Otherwise
WELS	Water Efficiency Labeling and Standards

HDPE	High Density Polyethylene
PVC	Polyvinyl Chloride
°C	Celsius
kPa	Kilo-Pascals
kW	Kilo-Watt
L	Litre
L/h	Litre per hour
L/m	Litre per minute
L/s	Litre per second
LU	Loading Unit
MJ	Mega-Joule
m/s	Metre per second
AS	Australian Standard
NZS	New Zealand Standard

AAV	Air Admittance Valve
B	Basin, Single Bowl
BT/FWG	Bucket Trap, with Disconnector Trap
COMBI	Combi Oven
CSK	Cleaners Sink, Single Bowl
DCHV	Dual Check Valve
DSK	Sink, Double Bowl
DSK2	Sink, Double Bowl (Second Bowl)
DT	Disconnector Gully Trap
DW	Dish Washer
eWM	Existing Water Meter
FIL	Water Filter
GW	Glass Washer
HWU	Gas Hot Water Unit
IOS	Inspection Opening to Surface
IV	Isolation Valve

P50	P-Trap (50Ø)
PRV	Pressure Reduction Valve
S40	S-Trap (40Ø)
S50	S-Trap (50Ø)
SK	Sink, Single Bowl
TD	Tundish, 40Ø
TV	Tempering Valve

PRINTING

DRAWINGS TO BE PRINTED AT A1 IN COLOUR

PIPE TOTAL LENGTHS

Size (Ø)	Discription	Total Length (m)
CW		
15	Pipe (Water)	0.4
20	Pipe (Water)	21.8
HW		
15	Pipe (Water)	24.8
SD		
40	Pipe (Drainage)	7.8
50	Pipe (Drainage)	1.2
100	Pipe (Drainage)	14
TW		
50	Pipe (Drainage)	1.4
65	Pipe (Drainage)	0.4
100	Pipe (Drainage)	3.4
VP		
50	Pipe (Drainage)	3.2
100	Pipe (Drainage)	3

PIPE ACCESSORIES

	Description	Size	No
AAV	Air Admittance Valve	50	1
BT/FWG	Bucket Trap, with Disconnector Trap	100-100-40-40-40	1
BT/FWG	Bucket Trap, with Disconnector Trap	100-100-50-40-40-50	1
DCHV	Dual Check Valve	15-15	2
DCHV	Dual Check Valve	20-20	3
DT	Disconnector Gully Trap		2
DT	Disconnector Gully Trap	100-100	2
FIL	Water Filter		1
HWU	Gas Hot Water Unit	15-15	1
IOS	Inspection Opening to Surface	100	4
IV	Isolation Valve		5
P50	P-Trap (50Ø)		2
PRV	Pressure Reduction Valve		1
S40	S-Trap (40Ø)		2
S50	S-Trap (50Ø)		5
TV	Tempering Valve		2

PIPE FITTINGS

System	Description	Size	No
CW			
P1-E	Pipe Elbow	15-15	1
P1-E	Pipe Elbow	20-20	12
P1-R	Pipe Reducer	20-15	3
P1-T	Pipe Tee	20-20-15	4
P1-T	Pipe Tee	20-20-20	5
HW			
P1-E	Pipe Elbow	15-15	13
P1-T	Pipe Tee	15-15-15	7
SD			
IO	Pipe Inspection Opening Fitting	100-100	2
P2-E	Pipe Elbow	40-40	8
P2-E	Pipe Elbow	100-100	13
P2-T	Pipe 88Ø Juction	100-100-50	1
P2-T	Pipe 88Ø Juction	100-100-100	8
PR-2	Pipe Reducer	100-50	3
TW			
IO	Pipe Inspection Opening Fitting	100-100	1
P2-E	Pipe Elbow	50-50	4
P2-E	Pipe Elbow	65-65	1
P2-E	Pipe Elbow	100-100	6
P2-R	Pipe Reducer	65-50	1
P2-R	Pipe Reducer	100-65	1
P2-T	Pipe 88Ø Juction	100-100-100	4
P2-Y	Pipe Y-Juction	50-50-50	1
P2-Y	Pipe Y-Juction	65-65-50	1
PR-2	Pipe Reducer	100-50	2
VP			
P2-E	Pipe Elbow	50-50	2
P2-E	Pipe Elbow	100-100	4

EQUIPMENT SCHEDULE

SINK ARRESTOR:
4 x ECO GUARDIAN IN SINK BUCKET TRAP COMPLETE WITH A REMOVABLE STAINLESS STEEL BASKET
MODEL: SINK DRAIN PROTECTOR S450
FLOOR WASTE DRAIN GUARD:
2 x ECO GUARDIAN IN-FLOOR BUCKET TRAP COMPLETE WITH REMOVABLE STAINLESS STEEL BASKET MODEL: FLOOR DRAIN PROTECTOR F660

DISCLAIMER

ALL LENGTHS AND QUANTITIES ARE AUTOMATICALLY CALCULATED DIRECTLY FROM THE REVIT MODEL AND ARE TO BE USED AS A GUIDE ONLY. CONTRACTOR TO CONFIRM ALL LENGTHS AND QUANTITIES PRIOR TO CONSTRUCTION

No. of Fixtures: 12 Total Fixture Units: 18

Designed to comply with Plumbing and Drainage Act 2018.

Services designed to comply with:

Cold Water to AS3500.1.2

Hot Water to AS3500.4.2

Sanitary Plumbing & Drainage to AS3500.2.2

Trade Waste Drainage to AS3500.2.2

Fire Service to AS2419.1

Fire Hose Reel to AS2441

Locality Plan



EXAMPLE ONLY - NOT FOR CONSTRUCTION

RPD

REAL PROPERTY DISCRIPTION

Property Owner

YOUR LOGO HERE

Tenant

TAKEAWAY SHOP

Hydraulic Consultant



QBCC License No: 1099893

A.C.N.: 116 871 544

A.B.N.: 241 1687 1544

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Project

TAKEAWAY SHOP

HYDRAULIC SERVICES
COVER SHEET

Drawn

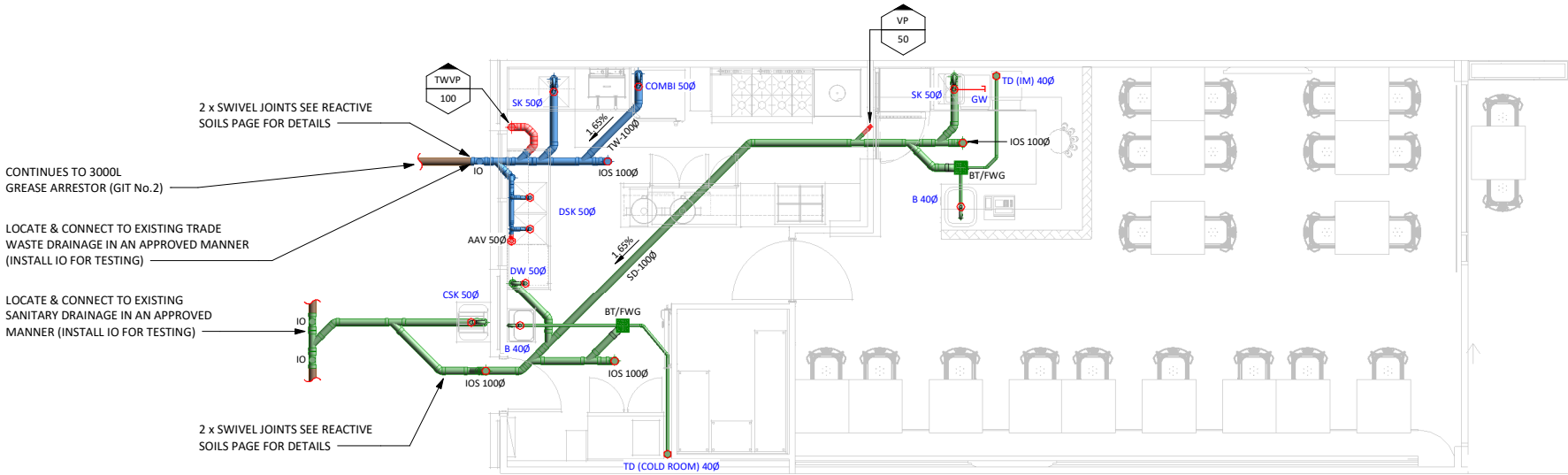
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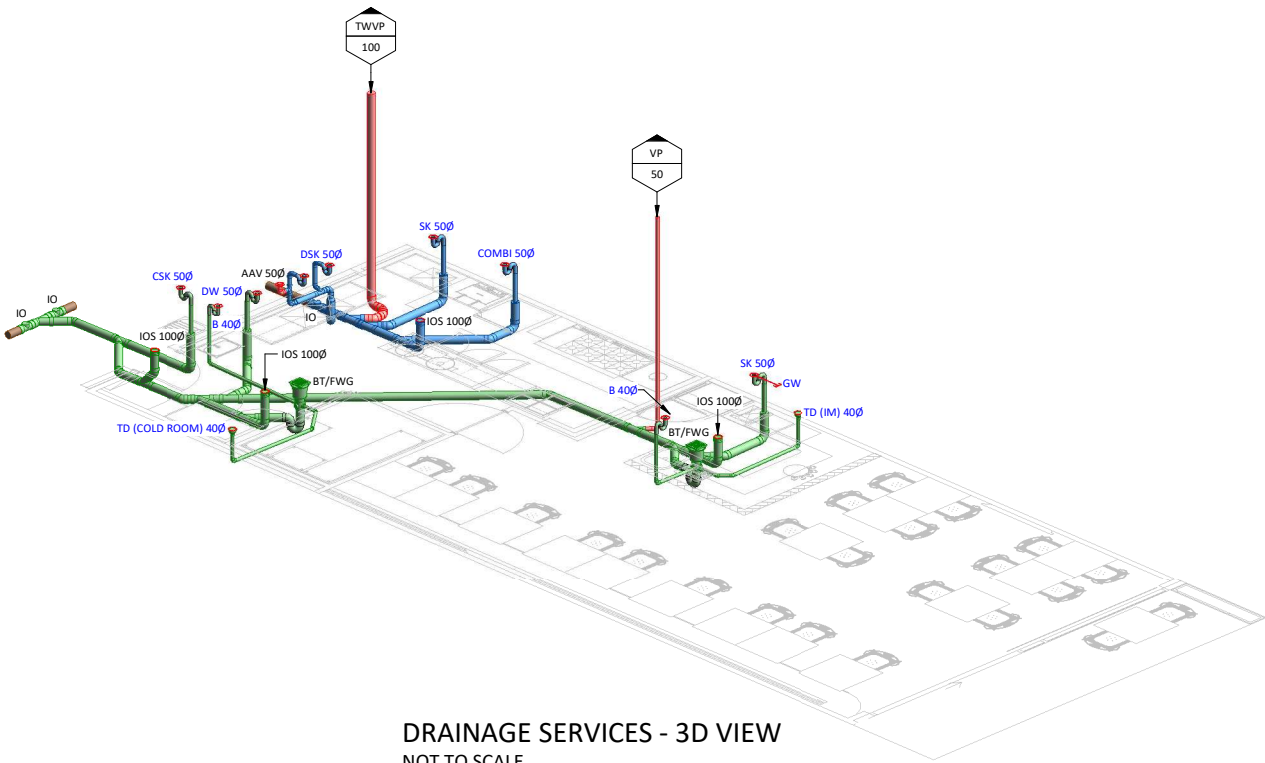
NOT TO SCALE

TAKEAWAY

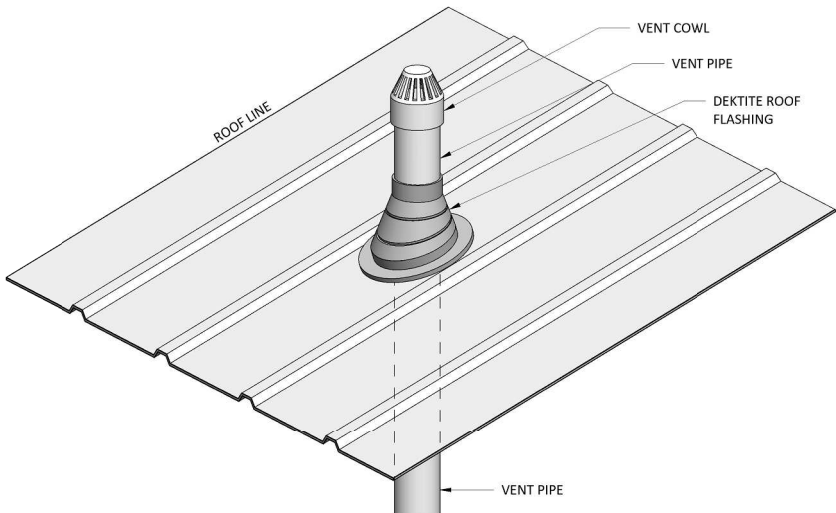
H-01



SANITARY & TRADE WASTE DRAINAGE SERVICES - PLAN
1 : 50



DRAINAGE SERVICES - 3D VIEW
NOT TO SCALE



VENT PENETRATION DETAIL
NOT TO SCALE

NOTE

THE LOCATIONS OF ALL EXISTING IN GROUND SERVICES HAVE BEEN DETERMINED FROM EXISTING HYDRAULIC PLANS & KNOWN POSITIONS OF EXISTING VALVES, MANHOLES ETC. NO RESPONSIBILITY IS TAKEN FOR THE ACCURACY OF THE EXISTING SERVICES INFORMATION SUPPLIED. THE PLUMBING CONTRACTOR IS TO ENSURE ALL SERVICES ARE ACCURATELY LOCATED PRIOR TO COMMENCEMENT OF WORK.

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Trade Waste Drainage to AS3500.2.2
Fire Service to AS2419.1
Fire Hose Reel to AS2441

Locality Plan



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Project

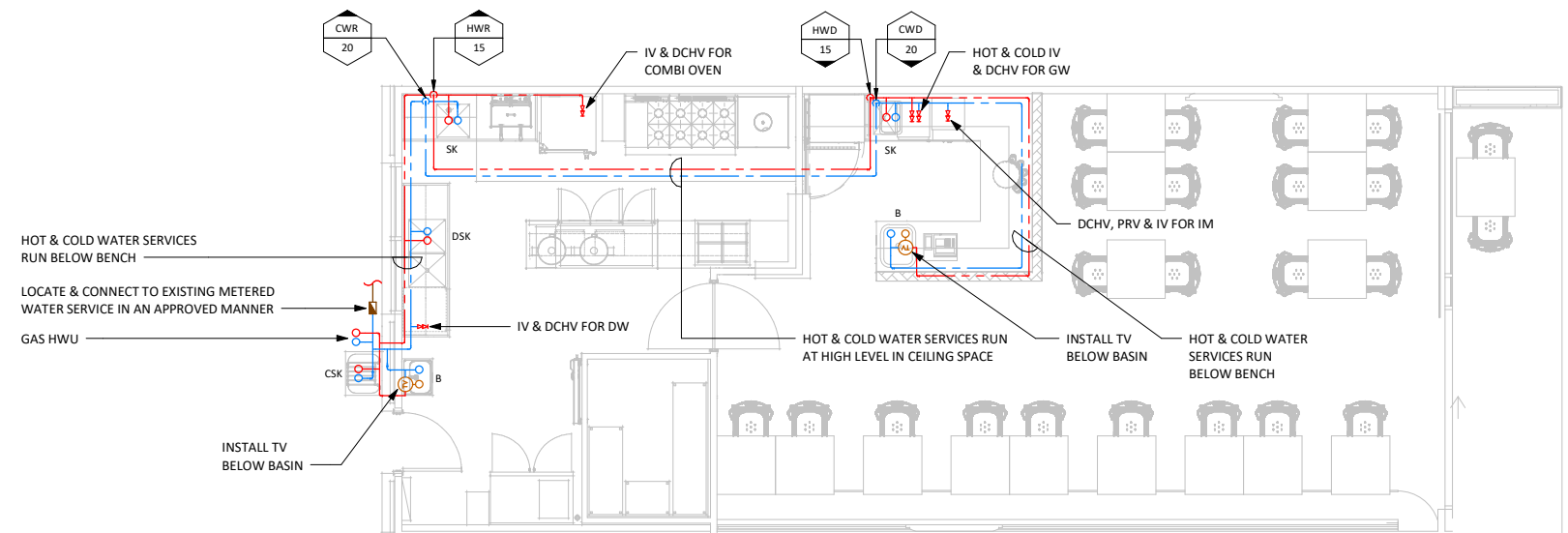
TAKEAWAY SHOP

HYDRAULIC SERVICES
DRAINAGE SERVICES

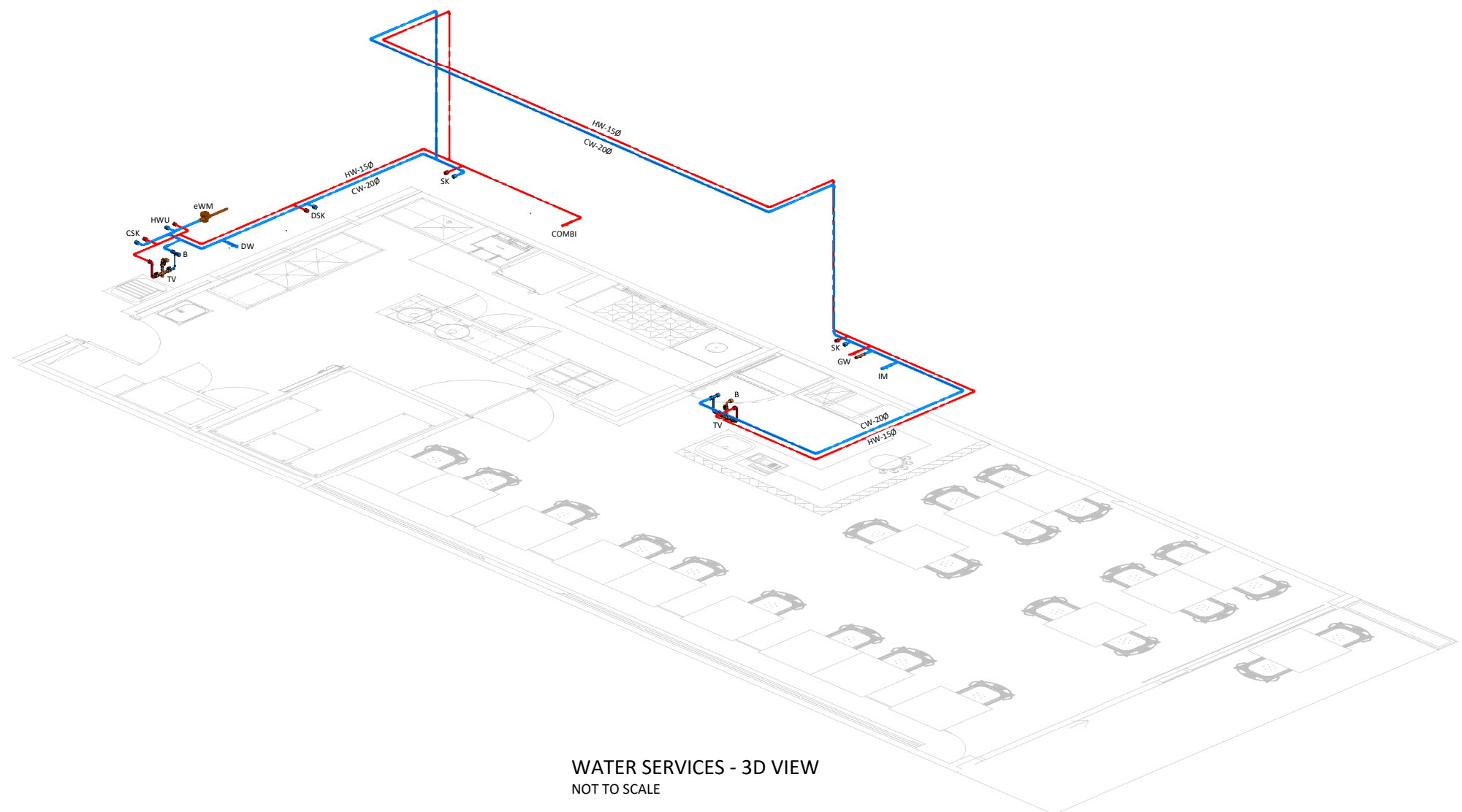
Drawn C. Marrinan Validated J.Griffin



TAKEAWAY H-02



WATER SERVICES - PLAN
1 : 50



WATER SERVICES - 3D VIEW
NOT TO SCALE

No. of Fixtures: 12 Total Fixture Units: 18
Designed to comply with Plumbing and Drainage Act 2018.
Services designed to comply with:
Cold Water to AS3500.1.2
Hot Water to AS3500.4.2
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Fire Hose Reel to AS2441

Locality Plan



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Project
TAKEAWAY SHOP

HYDRAULIC SERVICES
WATER SERVICES

Drawn C. Marrinan Validated J.Griffin

Scale 0 1 2 3 4m
1:50 @ A1 1:100 @ A3

TAKEAWAY H-03

RECOMMENDED GUIDELINES FOR SANITARY AND STORMWATER INSTALLATION ON REACTIVE CLAY SITES

NOTES: THE FOLLOWING NOTES AND DETAILS PROVIDED ARE A GUIDE ONLY FOR ARTICULATION FOR SANITARY PLUMBING & DRAINAGE & SHOULD BE READ IN CONJUNCTION WITH AS/NZS 3500, AS 2870 QUEENSLAND PLUMBING AND DRAINAGE ACT 2018 AND ANY OTHER RELEVANT STANDARD AND OTHER REQUIREMENTS OF THE QBCC.

- ALL DRAINS INSTALLED IN GROUND THAT IS FILLED, UNSTABLE, EXPANSIVE (eg. M, H, E & P SITES), OR WATER CHARGED, AND WHERE SOIL MOVEMENT MAY AFFECT THE PERFORMANCE OF ANY DRAIN, A CERTIFIED PLAN AND SPECIFICATION SHOULD BE PROVIDED BY AN APPROPRIATELY QUALIFIED PERSON. A SOIL REPORT AND ALL CALCULATIONS SHOWING PROPOSED METHOD TO PROTECT THE DRAINAGE FROM POTENTIAL GROUND MOVEMENTS MAY BE REQUIRED.
- ALL SEWER & STORMWATER TO BE CONSTRUCTED IN ACCORDANCE WITH AS/NZS 3500 AND THE 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 PIPEWORK WITHIN 3 METERS OF THE DWELLING AND COMPLY WITH AS 1260
- PLUMBING AND DRAINAGE UNDER THE SLAB SHOULD BE AVOIDED WHERE PRACTICAL (REFER AS/NZS 3500).
- GRADES IN PIPEWORK ON M, H, E & P SITES SHOULD HAVE A MINIMUM GRADE OF 1:30 WITHIN 3 METERS OF THE BUILDING AND 1:60 ELSEWHERE. GRADES IN FLEXIBLE FITTINGS TO BE SET AT THE MINIMUM GRADE.
- 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.
- STORMPLASTICS (SA) PTY LTD "SWIVEL JOINTS" SHOULD NOT BE USED AS A BEND TO ACHIEVE CORRECT FALLS. THE JOINTS SHOULD 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.
- DETAIL AND SUPPORT OF TRAPS AT THE ORG TO BE CONSIDERED ON-SITE TO ALLOW FOR POTENTIAL MOVEMENTS. THE ORG SHOULD BE CAST IN CONCRETE MONOLITHICALLY WITH THE FOOTING SYSTEM ON CLASS 'H' AND 'E' SITES.
- ALL PVC PIPEWORK PASSING THROUGH CONCRETE MUST HAVE 25mm LAGGING.
- STORMWATER SYSTEMS THAT COLLECT ROOF WATER AND SURFACE WATER ARE REQUIRED TO BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH AS/NZS 3500 PART 5.
- THE USE OF CORRUGATED FLEXIBLE PVC PIPE PRODUCTS SHOULD BE AVOIDED ON CLASS H & E SITES AS THEY ARE NOT ABLE TO EXPAND LONGITUDINALLY TO ACCOMMODATE POTENTIAL VERTICAL & LATERAL MOVEMENTS AT THE SLAB OR FOOTING EDGES UNLESS SPECIFICALLY DETAILED BY THE MANUFACTURER.
- ALL JOINTS IN STORMWATER PIPES WITHIN 3 METERS OF THE HOUSE UNDER CONSTRUCTION SHOULD BE ARTICULATED TO ACCOMMODATE GROUND MOVEMENTS WITHOUT LEAKAGE.
- SEPTIC TANKS AND ASSOCIATED SOAKAGE AREAS SHOULD BE LOCATED TO MINIMISE SOIL MOISTURE INCREASES WITHIN THE FOUNDATION. JOINTS IN PLUMBING PIPES WITHIN 3.0 METERS OF THE HOUSE UNDER CONSTRUCTION SHALL BE ARTICULATED TO ACCOMMODATE GROUND MOVEMENTS WITHOUT LEAKAGE. SEPTIC TANKS IN PARTICULAR REQUIRE CAREFUL DETAILING.
- ALL PIPE WORK INCLUDING STORMWATER FITTINGS AND ADAPTERS SHOULD BE PROTECTED FROM MECHANICAL DAMAGE.
- TERMITE PROTECTION NOT SHOWN ON THE DRAWINGS AS THERE ARE VARIOUS OPTIONS. REFER TO THE BUILDING DESIGNER.
- ALL DETAILS ARE INDICATIVE ONLY. DESIGN OF THE PATHS, FOOTINGS, ETC AND LOCATION OF PENETRATIONS TO BE SPECIFIED BY AN ENGINEER.
- PROVISIONS SHOULD BE MADE FOR THE CONNECTION OF OVERFLOW OR WATER DISCHARGE FROM FIXTURES SUCH AS HWS AND AC TO A DRAIN AS REQUIRED BY THE RELEVANT AUTHORITY.
- EXPECTED MINIMUM REQUIREMENTS FOR EXPANSION AND ALLOWABLE RELATION FITTING AS FOLLOWS:

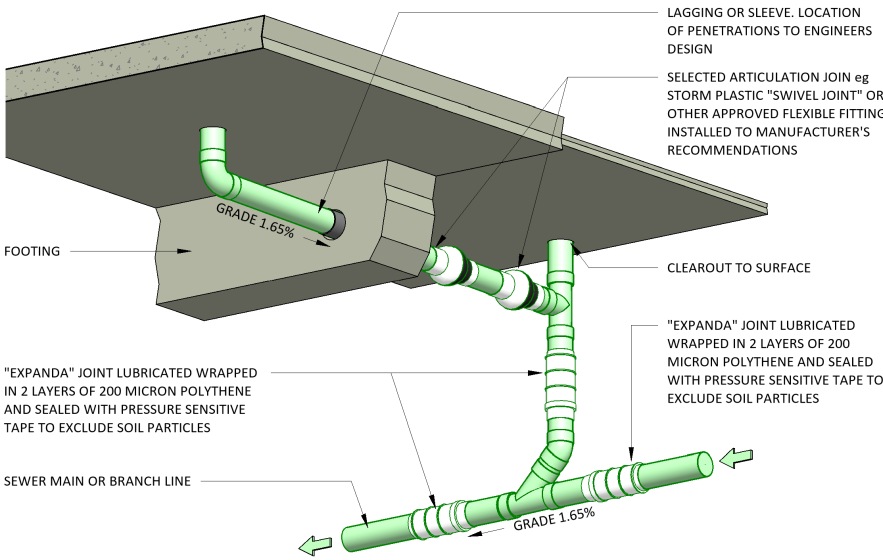
SITE	MINIMUM EXPANSION OF JOINTS	ALLOWABLE ROTATION
CLASS 'E'	150mm	15°
CLASS 'H'	70mm	15°
CLASS 'P'	70mm PLUS ADDITIONAL REQUIREMENTS IN THE CASE OF FILL (MIN. DEPENDANT ON SITE CONDITION)	15°
CLASS 'M'	MIN 25mm LAGGING THROUGH FOOTING	NOT APPLICABLE

- THE FOLLOWING PRACTICES ARE NOT PERMITTED:
 - CUTTING THE REINFORCEMENT STEEL TO GO AROUND THE PIPE.
 - BENDING THE REINFORCEMENT STEEL TO GO OVER THE PIPE
- PLUMBING & DRAINAGE PIPES
WHERE PIERS ARE USED TO SUPPORT A SLAB ON FILL PLUMBING AND DRAINAGE PIPES FOUNDING WITHIN SUCH FILL SLAB SHALL BE HUNG FROM THE SLAB MESH WITH NON-CORROSIVE STRAPS

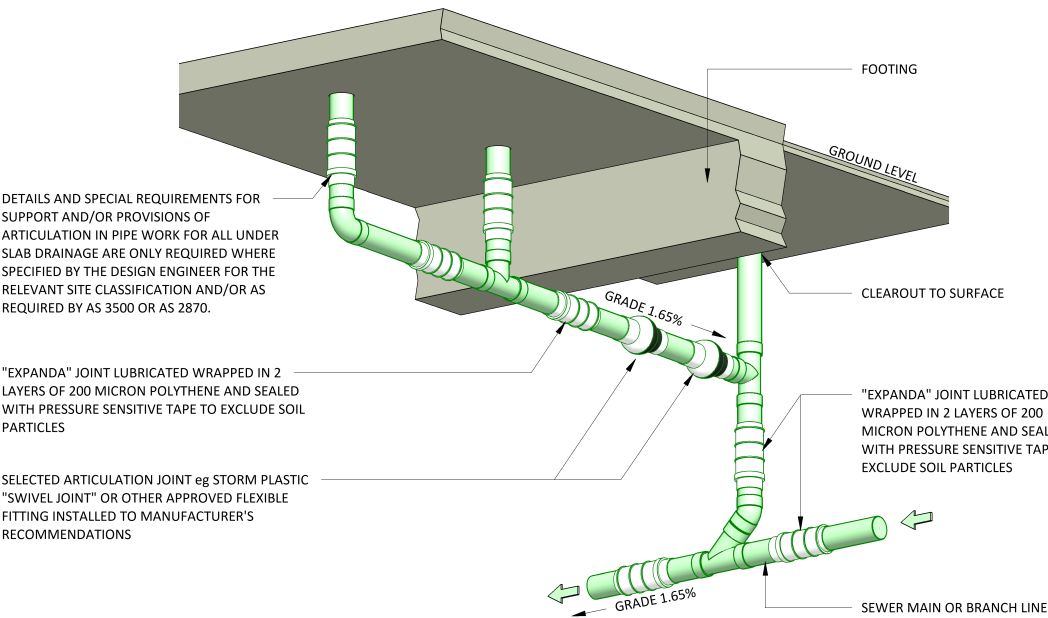
SOIL REPORT

SITE CLASSIFICATION	E
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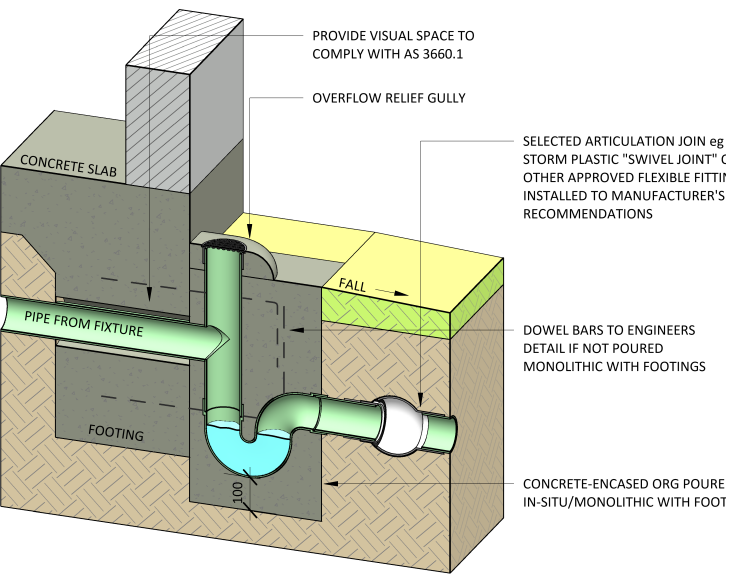
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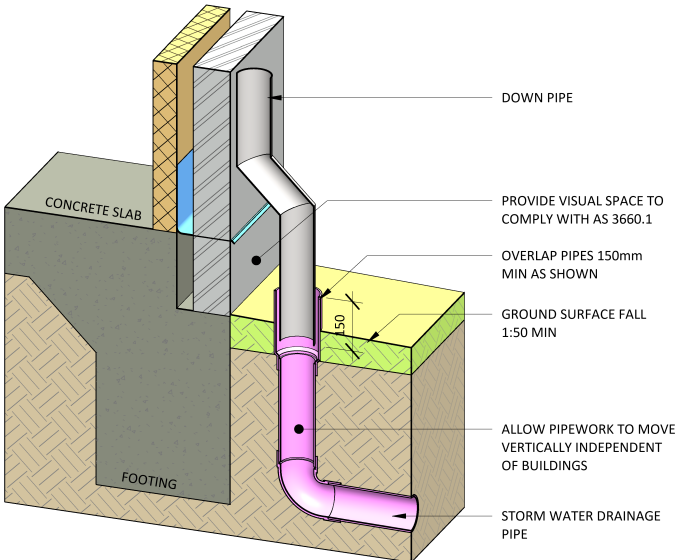
TYPICAL CONNECTION FROM PIPEWORK TO BRANCH
NOT TO SCALE



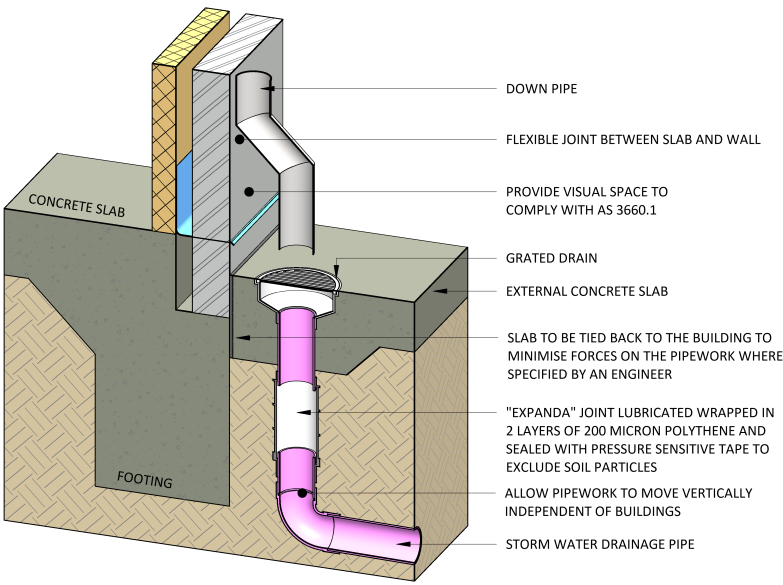
TYPICAL UNDER SLAB-EDGE BEAM/WAFFLE POD DETAIL
NOT TO SCALE



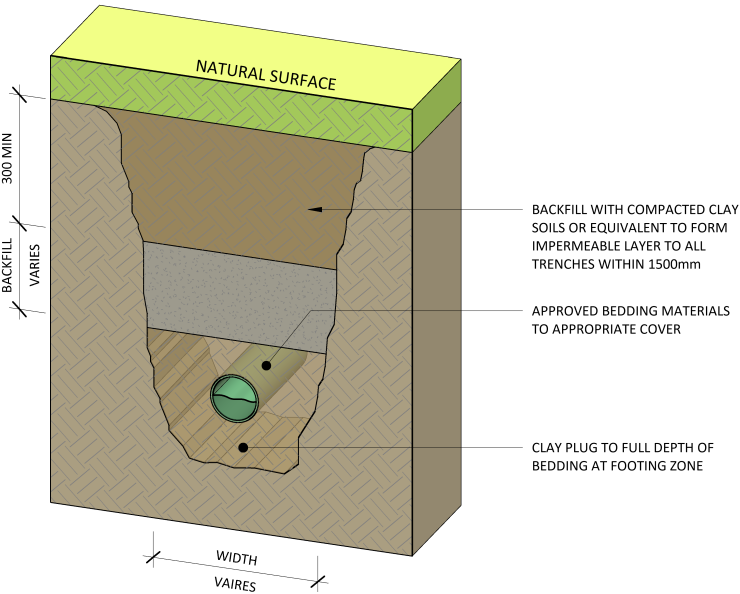
TYPICAL ORG DETAIL TO PREVENT SHEAR AT FOOTAGE FACE
NOT TO SCALE



TYPICAL STORMWATER DETAIL (ALTERNATIVE)
NOT TO SCALE



DOWN PIPE TO GRATED DRAIN DETAIL
NOT TO SCALE



TYPICAL TRENCH DETAIL
NOT TO SCALE

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Fire Service to AS2419.1
Fire Hose Reel to AS2441

Locality Plan



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Project
TAKEAWAY SHOP

PLUMBING ARTICULATION
REACTIVE SOILS

Drawn C. Marrinan Validated J.Griffin

Scale NOT TO SCALE

TAKEAWAY H-04