

GENERAL NOTES

1.
- THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS DRAWINGS. ANY SET OUT DIMENSIONS AND LEVELS SHOWN ON DRAWINGS ARE TO BE VERIFIED PRIOR TO CONSTRUCTION.
2.
- ALL MATERIALS AND WORKMANSHIP TO BE IN ACCORDANCE WITH THE RELEVANT CURRENT AUSTRALIAN STANDARDS AND WITH THE LATEST BUILDING CODE OF AUSTRALIA.
3.
- DO NOT SCALE STRUCTURAL DRAWINGS TO OBTAIN DIMENSIONS. IF IN DOUBT ASK!
4.
- ALL DIMENSIONS ARE IN MM UNLESS STATED OTHERWISE. ALL LEVELS ARE SHOWN IN METERS. LEVELS SHOWN ON THESE DRAWINGS ARE FOR THE PURPOSE OF ASSISTING STRUCTURAL DOCUMENTATION AND SHOULD NOT BE USED FOR CONSTRUCTION UNLESS ADVISED BY NOVUS ENGINEERING. ALWAYS CROSS REFERENCE LEVELS WITH THE LATEST ARCHITECTURAL DRAWINGS FOR RL'S.
5.
- THE BUILDER IS RESPONSIBLE FOR THE ADEQUACY OFF ALL TEMPORARY WORKS INCLUDING PROPPING AND BRACING. WHERE NECCESARY THE BUILDER SHALL ENGAGE THE SERVICES OF A STRUCTURAL ENGINEER TO DESIGN AND CERTIFY TEMPORARY WORKS.
6.
- THE METHOD OF CONSTRUCTION AND HEALTH AND SAFETY DURING CONSTRUCTION ARE THE RESPONSIBLTY OF THE BUILDER. IF STRUCTURAL ELEMENTS POSE RISK OR DIFFICULTY WHEN CONSTRUCTING, ADVICE SHALL BE SOUGHT FROM THE STRUCTURAL ENGINEER.
7.
- ALL MEMEBERS MENTIONED ON THESE DRAWINGS, ARE SUPERSLEEPER PRODUCTS. UNDER NO CIRCUMSTANCES SHALL THE DETAILS BE USED WITH OTHER PRODUCTS WITHOUT SUPERSLEEPER AUTHORISATION.
8.
- ANY DISCREPANCY WITH MEMBER SIZES, FIXINGS,COMPONENTS OR OMISSIONS SHALL BE REFERRED TO THE SUPERSLEEPER. UNDER NO CIRCUMSTANCES SHALL ASSUMPTIONS BE MADE WHETHER FOR PRICING, CONSTRUCTION OR OTHER SERVICE.

RETAINING WALL

1.
- SURCHARGE LIVE LOADS: **2.5 kPa**. NO ADDITIONAL IMPOSED LOADS OF ANY STRUCTURES WITHIN THE RETAINING WALL ZONE OF INFLUENCE.
2.
- THIS DESIGN HAS NOT BEEN VERIFIED FOR GLOBAL STABILITY. AS PER GOOD WORKING PRACTICE AND IN ACCORDANCE WITH AS4678, AN RPEQ GEOTECHNICAL ENGINEER MUST BE ENGAGED BY THE CLIENT TO ASSESS THE DESIGN AGAINST GLOBAL SLIP.
3.
- BUILDER TO PREPARE GROUND FOR FOUNDATION BY REMOVAL OF ANY TOPSOIL CONTAINING ORGANIC MATERIAL.
4.
- UNDER NO CIRCUMSTANCES SHALL ANY STRUCTURE BE POSITIONED ON TOP OF THE WALL WITHIN HEIGHT OF THE WALL, REGARDLESS WHETHER THE STRUCTURE IS ON SCREW PILES.
5.
- THE FOUNDATION DEPTHS HAVE BEEN DEVELOPED USING TYPICAL SOIL PARAMETERS. FOUNDATION MATERIAL SHALL BE CONFIRMED AND APPROVED PRIOR TO POURING OF CONCRETE BY A COMPETENT PERSONAL AND DOCUMENTED

CONCRETE

1.
- CONCRETE WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH AS3600.
2.
- CONCRETE STRENGTH: FOOTING = N20, CONCRETE SLEEPER = N40 AT 28 DAYS SLUMP TO BE 80mm AND MAXIMUM AGGREGATE SIZE 20mm.
3.
- DO NOT ADD WATER TO CONCRETE ON SITE.
4.
- SURFACE FINISHES TO BE IN ACCORDANCE WITH AS3600.
5.
- CLEAR COVER TO REINF. TO AS3600 AND UNLESS NOTED OTHERWISE TO BE: SLAB ON GROUND 30mm TOP COVER, FOOTINGS 50mm COVER
6.
- REINFORCEMENT TO AS1302, 'N' DENOTES GRADE 500 DEFORMED BAR, 'R' DENOTES GRADE 230 PLAIN ROUND BAR, 'L' DENOTES HARD DRAWN WIRE FABRIC TO AS1304. MIN. LAP OF REINFORCEMENT UNLESS NOTED OTHERWISE TO BE 50\*REO DIA. (eg. N12 LAP = 12\*50 = 600mm) AND 200mm FOR FABRIC.
7.
- CONCRETE SURFACES TO BE CURED BY AN APPROVED METHOD FOR SEVEN DAYS IMMEDIATELY AFTER THE CONCRETE IS HARD.
8.
- WHEN BUILDING OVER OR NEAR SEWER OR STORMWATER SERVICES, PLEASE NOTE THE FOLLOWING

A.

OBTAIN APPROVAL FROM LOCAL COUNCIL AUTHORITY PRIOR TO ANY CONSTRUCTION

B.

CONFIRM SERVICES INVERT LEVEL AND AND ALIGNMENT PRIOR TO EXCAVATION .

FENCE BRACKET

FENCING BRACKET DESIGNED TAKING INTO ACCOUNT FULL SHEILDING WITH AT LEAST 2 PROPERTIES SURROUNDING THE FENCE (M<sub>s</sub> = 0.85), IMPORTANCE LVL 1, REGION B, HAS BEEN ASSUMED. M<sub>t</sub> = 1.0, CAT = 3.0. IF THESE ARE TO CHANGE PLEASE NOTIFY SUPERSLEEPER.

SINGLE TIER RETAINING WALL - STIFF CLAY FOUNDING MATERIAL 5kPa						
WALL HEIGHT 'H'	FOOTING DEPTH 'D' (NO FENCE)	FOOTING DEPTH 'D' (WITH FENCE)	FOOTING SPACING 'S'	INTERMEDIATE POST	PILE DIA. 'PD'	END POST
400	600	800	2400	120H SUPERPOST	300	120C SUPERPOST
600	800	1000	2400	120H SUPERPOST	450	120C SUPERPOST
800	1000	1200	2000	120H SUPERPOST	450	120C SUPERPOST
1000	1200	1400	2000	120H SUPERPOST	450	120C SUPERPOST

SINGLE TIER RETAINING WALL - WEATHERED ROCK FOUNDING MATERIAL - 5kPa						
WALL HEIGHT 'H'	FOOTING DEPTH 'D' (NO FENCE)	FOOTING DEPTH 'D' (WITH FENCE)	FOOTING SPACING 'S'	INTERMEDIATE POST	PILE DIA. 'PD'	END POST
400	600	600	2400	120H SUPERPOST	300	120C SUPERPOST
600	600	600	2400	120H SUPERPOST	450	120C SUPERPOST
800	800	1000	2000	120H SUPERPOST	450	120C SUPERPOST
1000	1000	1200	2000	120H SUPERPOST	450	120C SUPERPOST

SINGLE TIER RETAINING WALL - SAND - FOUNDING MATERIAL 5kPa						
WALL HEIGHT 'H'	FOOTING DEPTH 'D' (NO FENCE)	FOOTING DEPTH 'D' (WITH FENCE)	FOOTING SPACING 'S'	INTERMEDIATE POST	PILE DIA. 'PD'	END POST
400	900	1000	2400	120H SUPERPOST	300	120C SUPERPOST
600	1100	1200	2400	120H SUPERPOST	450	120C SUPERPOST
800	1300	1400	2000	120H SUPERPOST	450	120C SUPERPOST
1000	1500	1600	2000	180H SUPERPOST	450	120C SUPERPOST

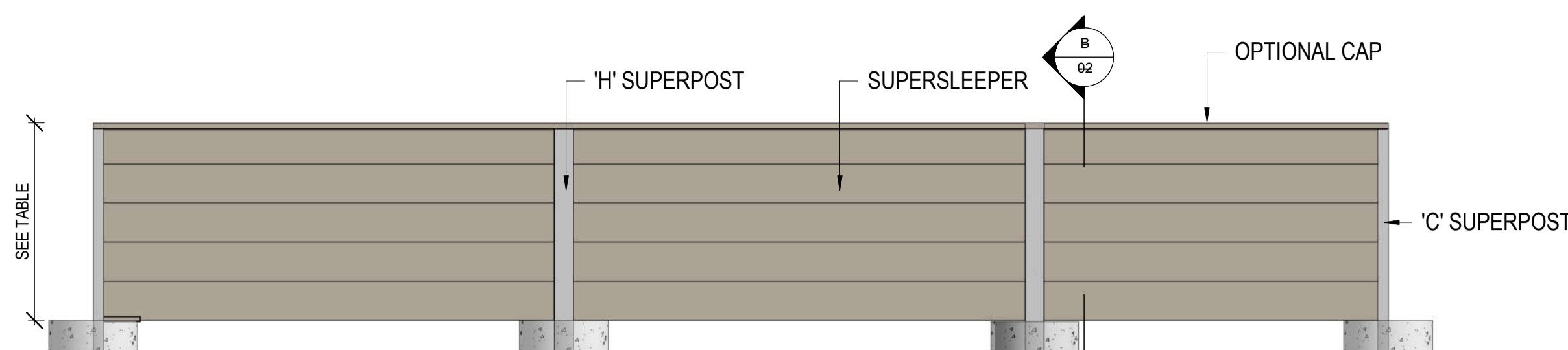
GEOTECHNICAL PARAMETERS	
RETAINED/FOUNDING: STIFF CLAY	
UNIT WEIGHT	19kN/m3
INTERNAL ANGLE OF FRICTION	26
DRAINED COHESION	5 kPa

GEOTECHNICAL PARAMETERS WR	
RETAINED/FOUNDING: WEATHERED ROCK	
UNIT WEIGHT	22kN/m3
INTERNAL ANGLE OF FRICTION	30
DRAINED COHESION	10 kPa

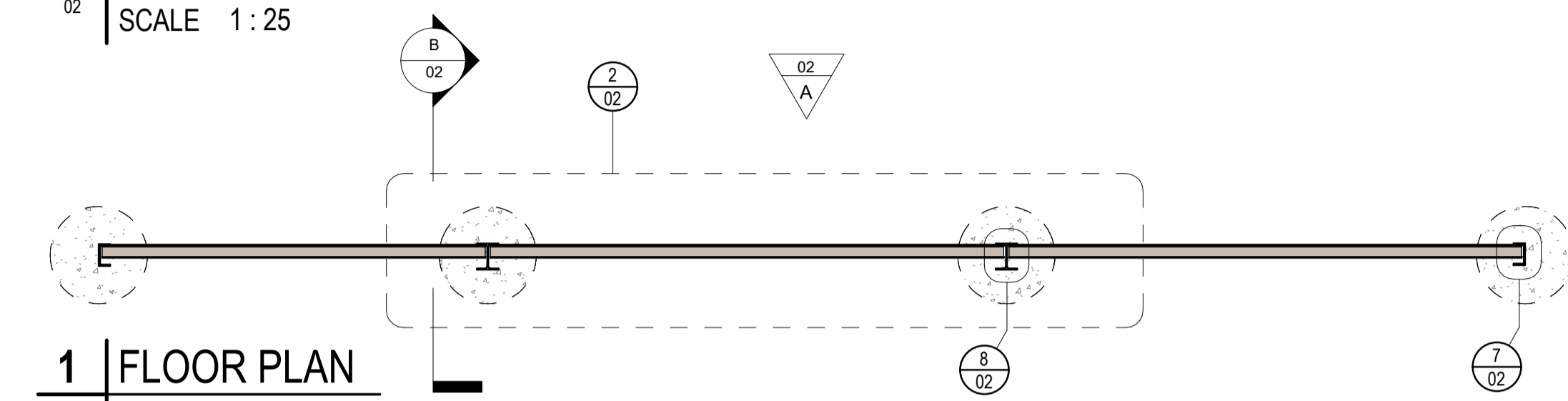
GEOTECHNICAL PARAMETERS SAND	
RETAINED/FOUNDING: SAND	
UNIT WEIGHT	19kN/m3
INTERNAL ANGLE OF FRICTION	33
DRAINED COHESION	0 kPa

DRAWING TITLE

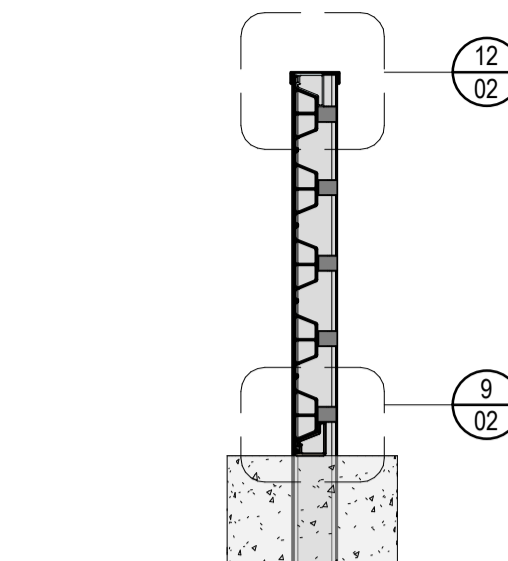




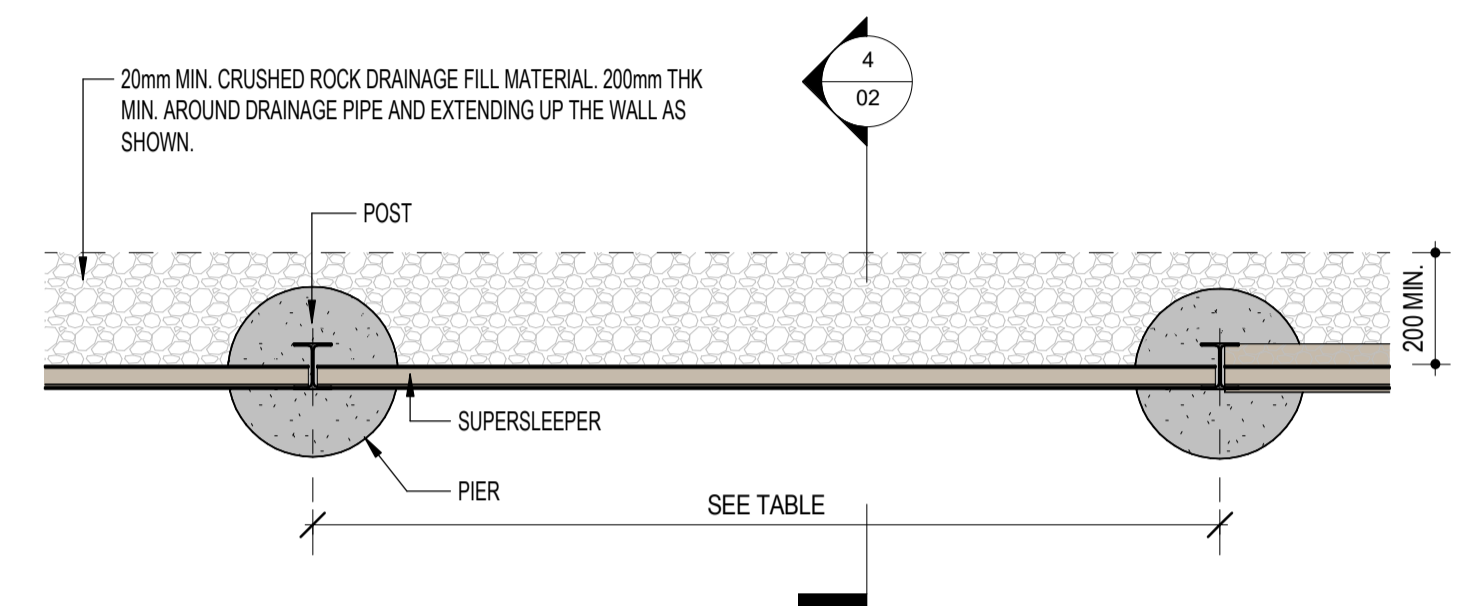
**A | ELEVATION**  
SCALE 1:25



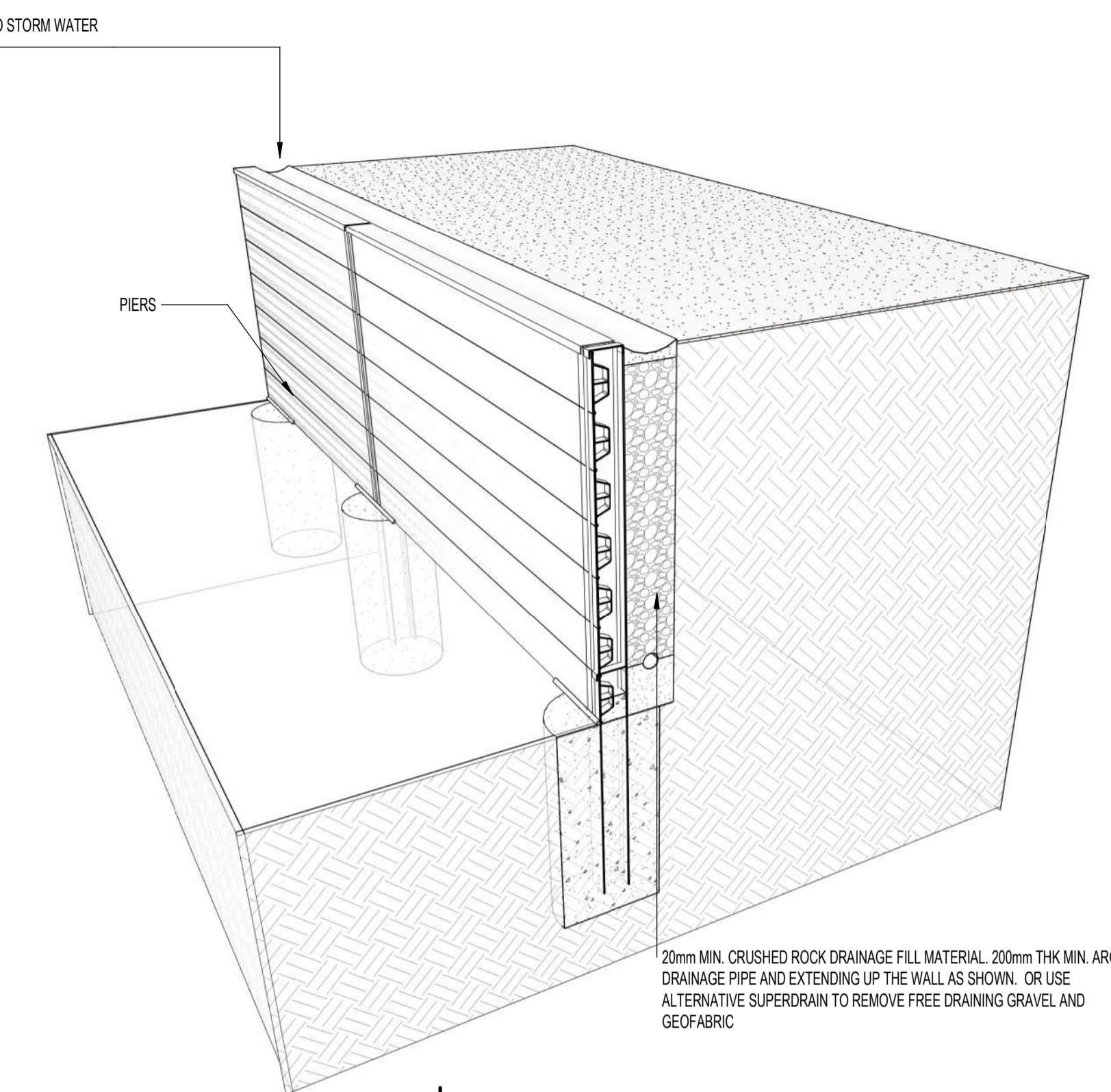
**1 | FLOOR PLAN**  
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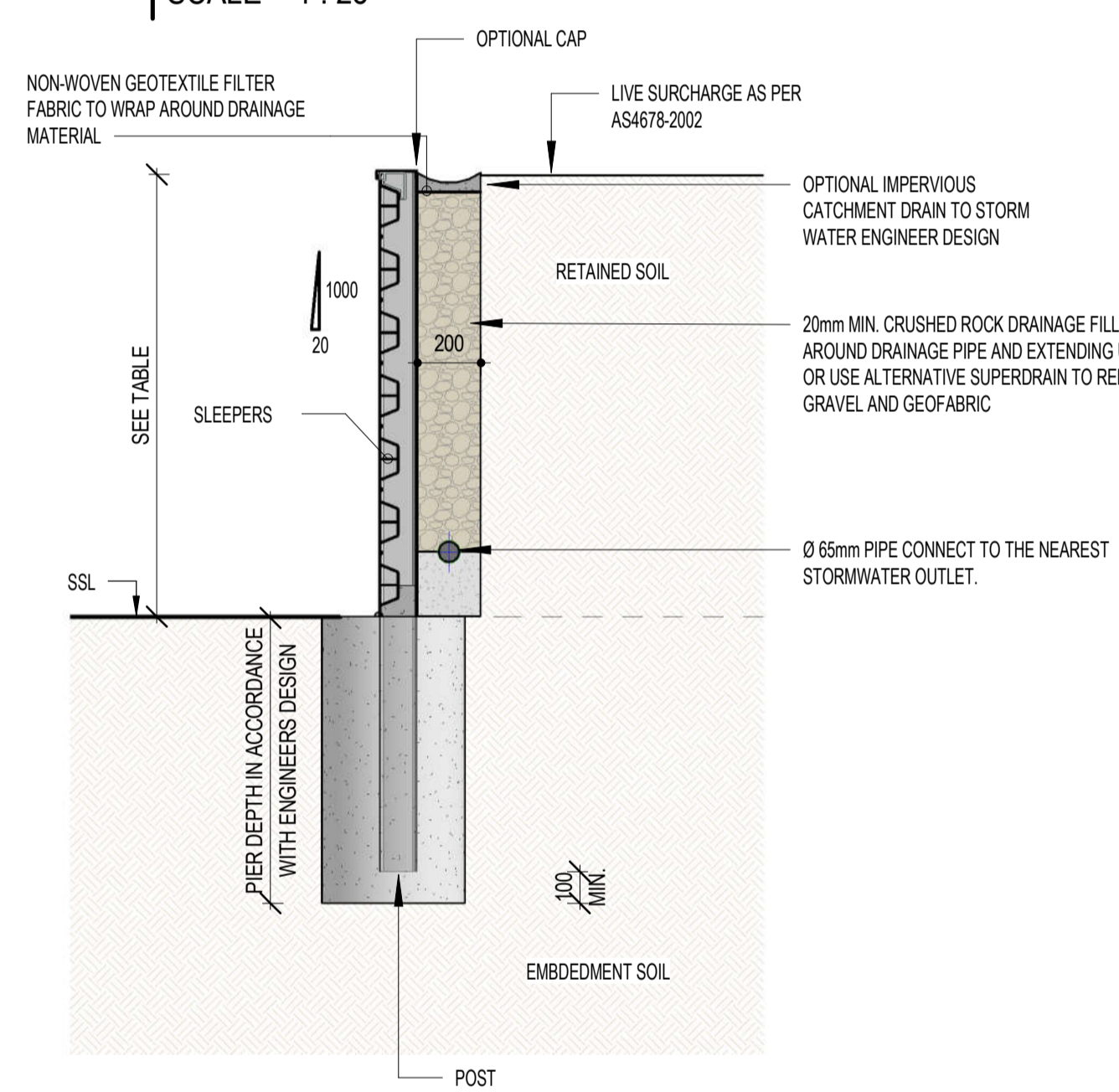
**B | SEC -B**  
SCALE 1:20



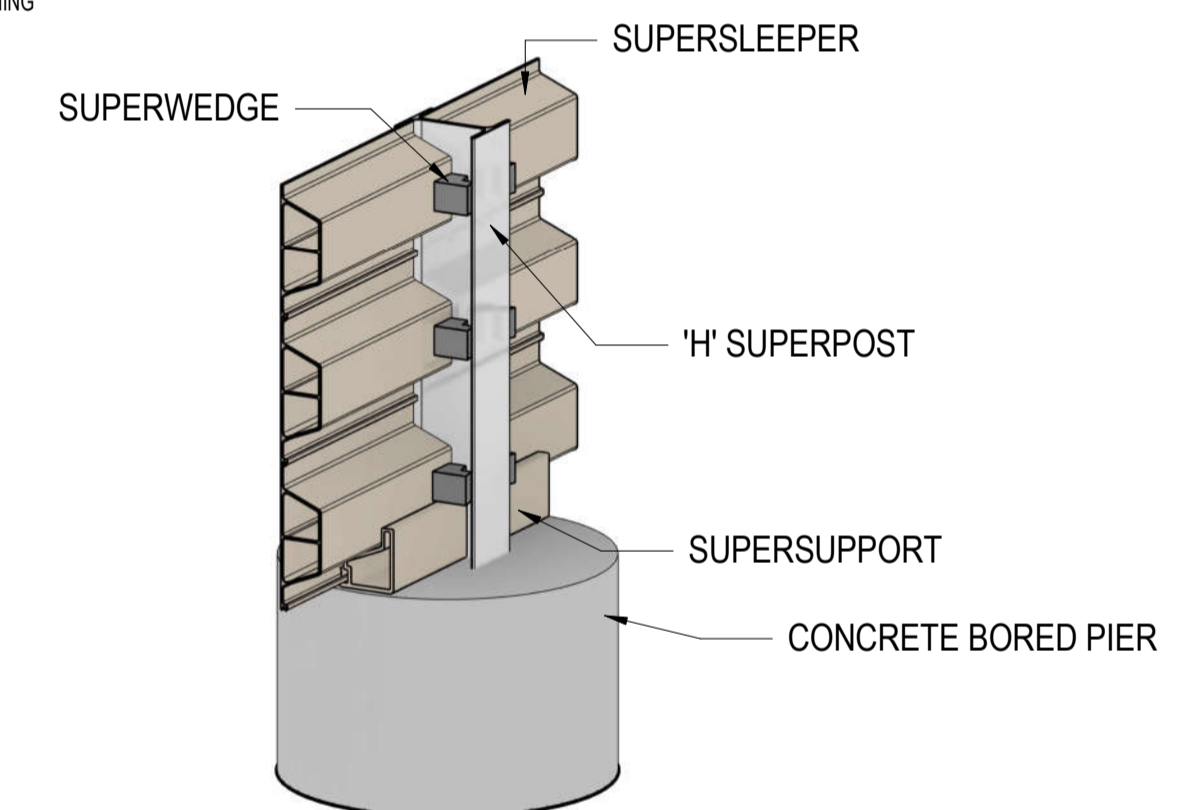
**2 | FLOOR PLAN DETAIL**  
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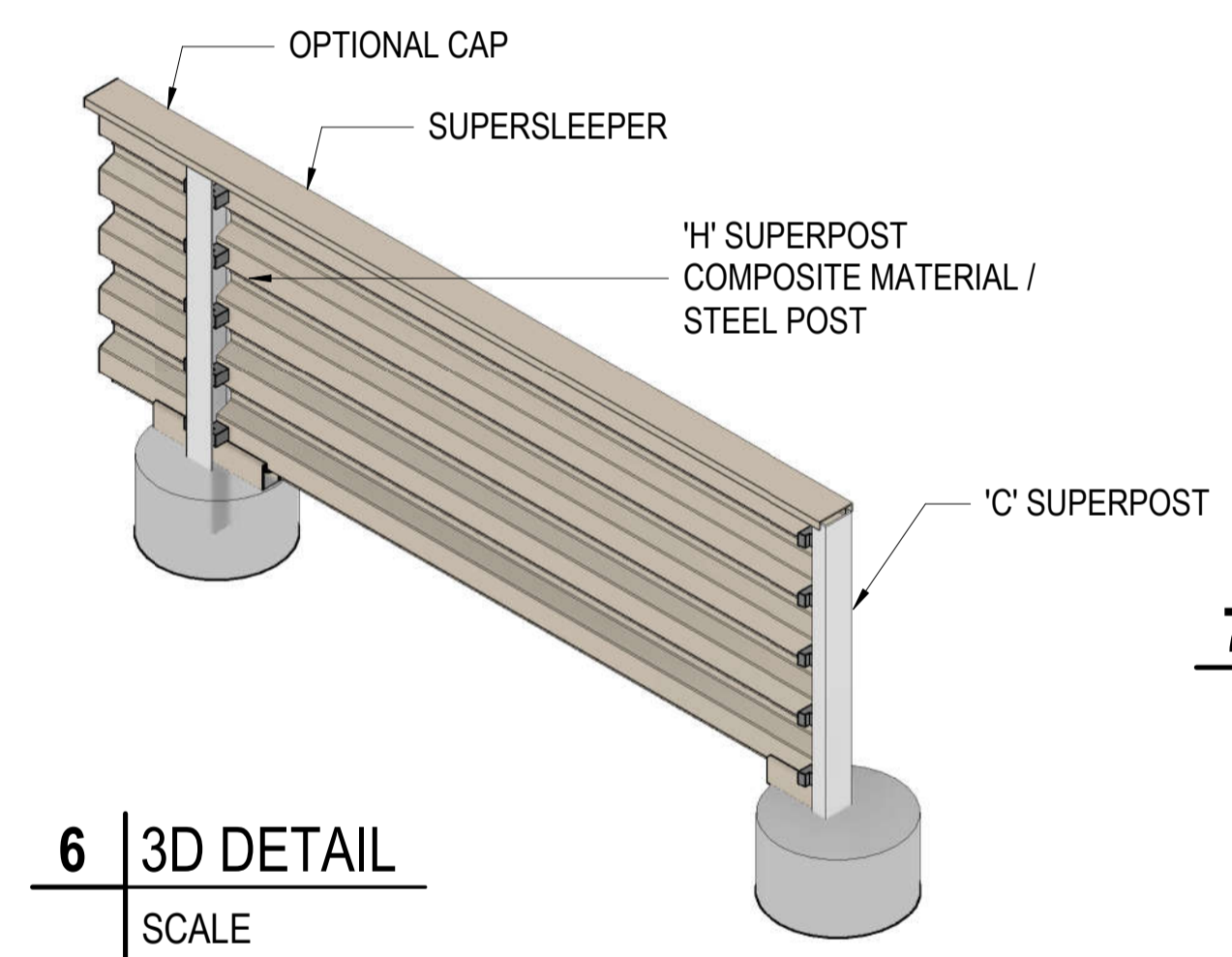
**3 | 3D SECTION**  
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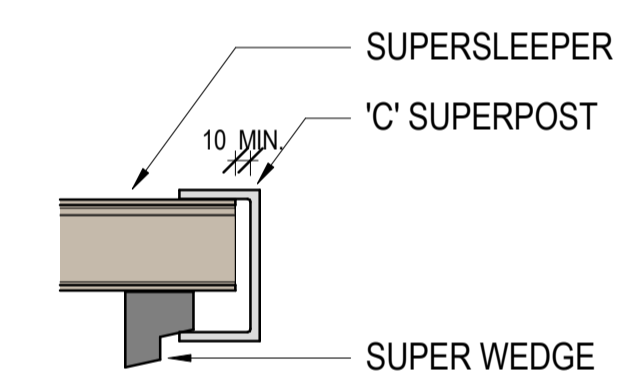
**4 | SECTION B**  
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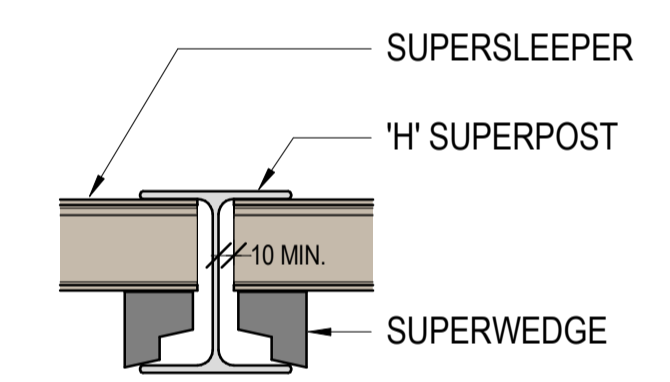
**5 | 3D DETAIL REVERSED**  
SCALE



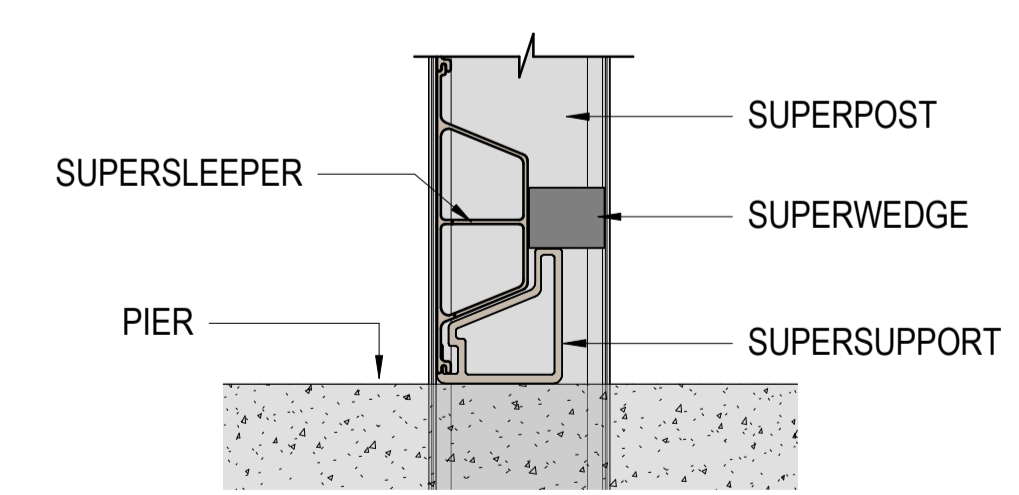
**6 | 3D DETAIL**  
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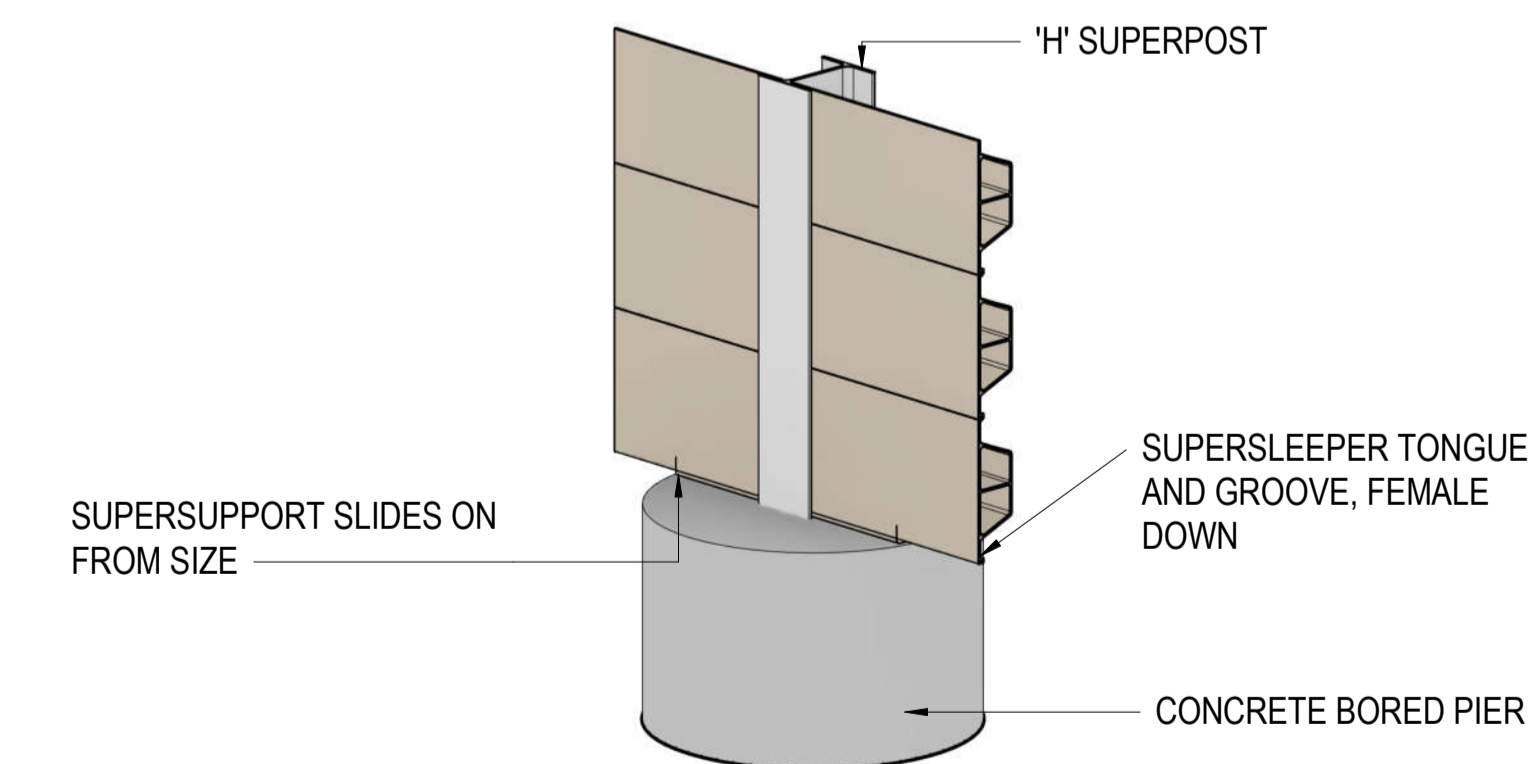
**7 | 'C' SUPERPOST DETAIL**  
SCALE 1:5



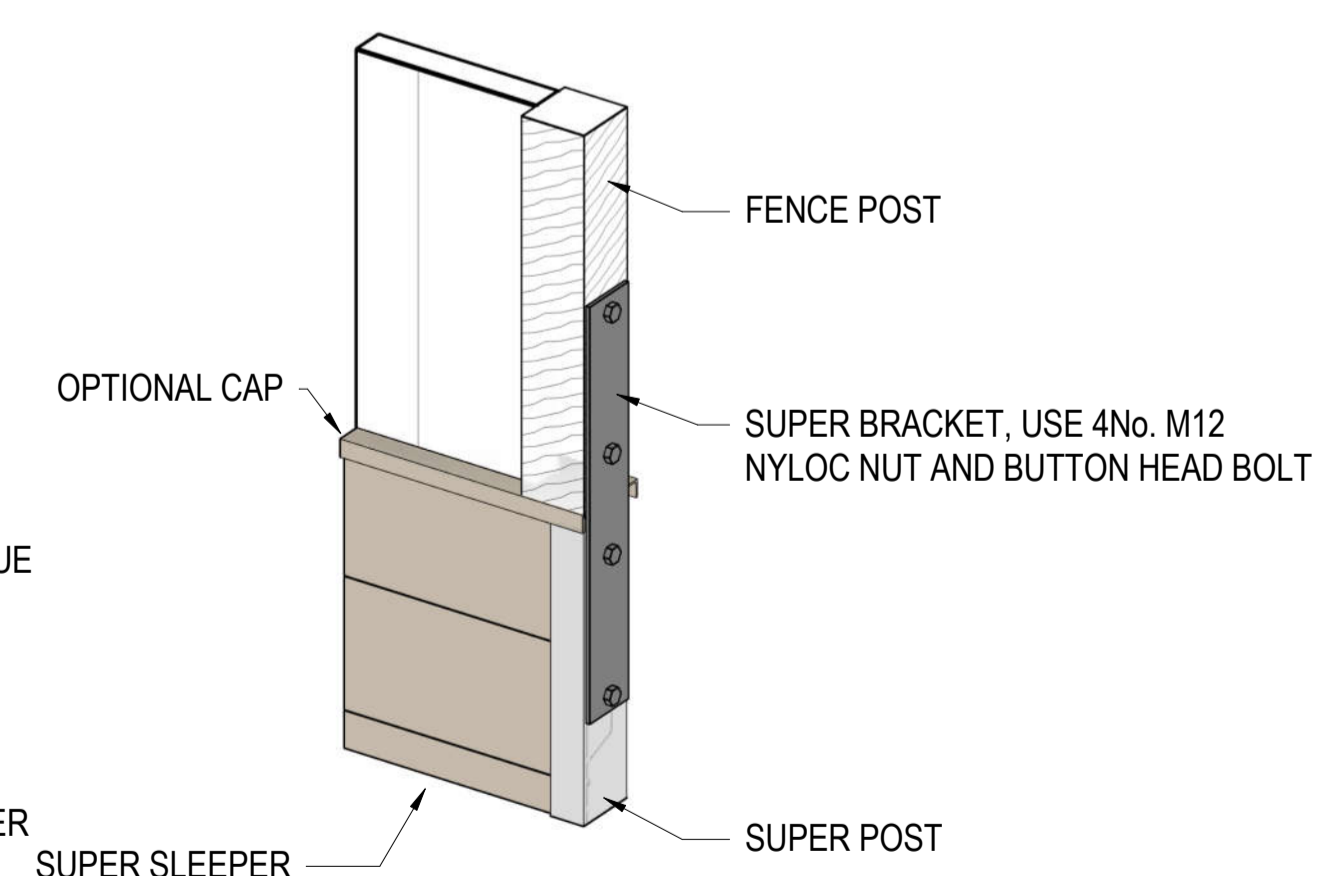
**8 | 'H' SUPERPOST DETAIL**  
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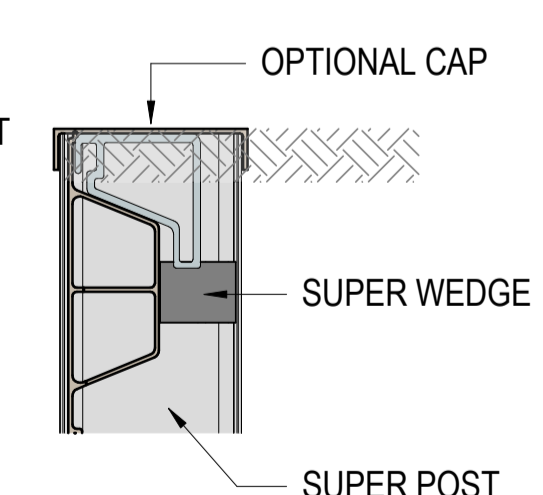
**9 | SUPERSUPPORT DETAIL**  
SCALE 1:5



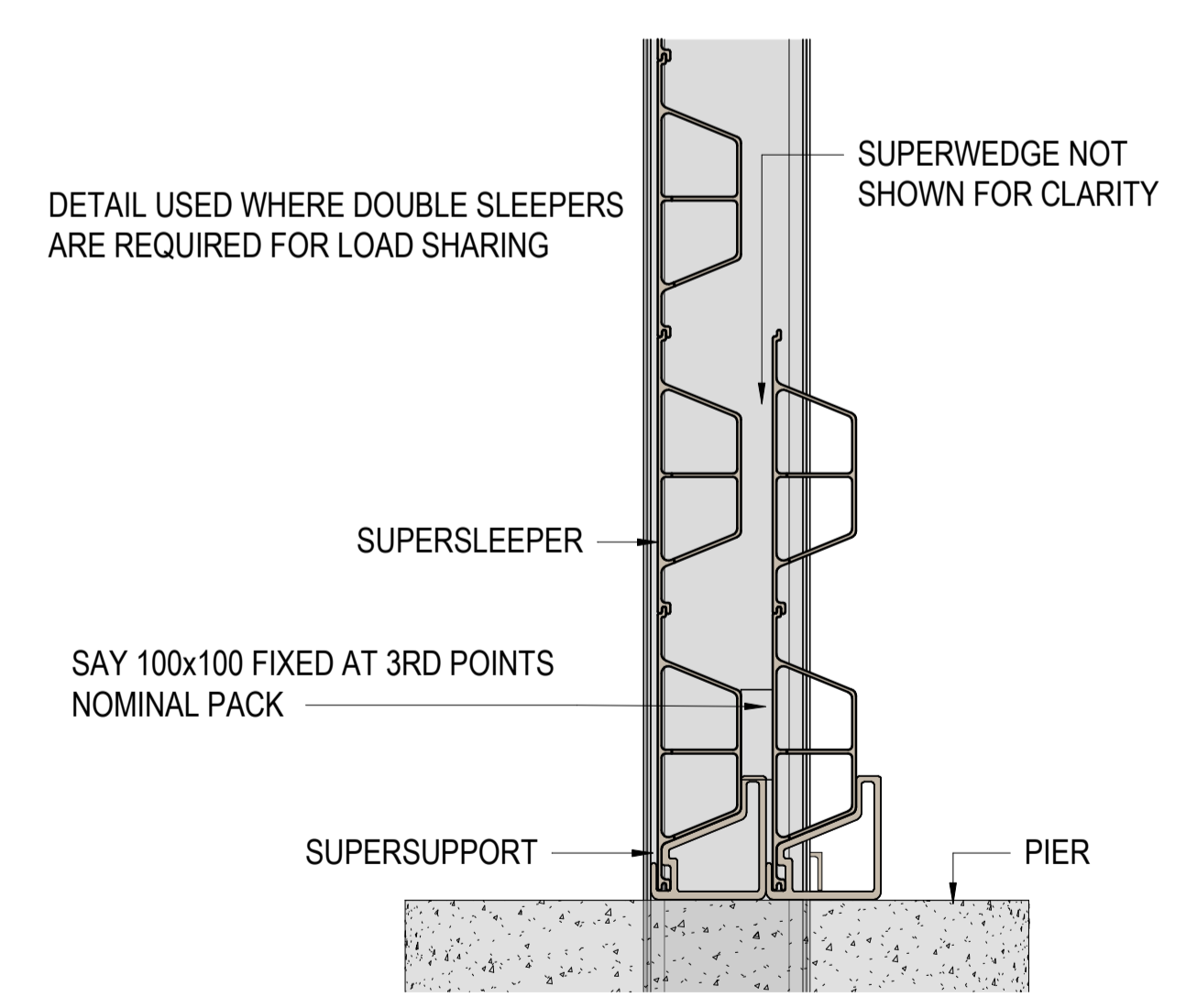
**10 | BASE FIXING - 3D DETAIL**  
SCALE



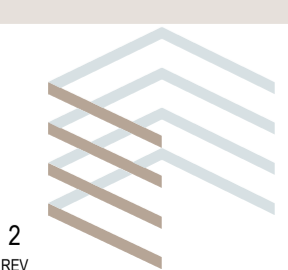
**11 | SUPERBRACKET DETAIL 3D**  
SCALE



**12 | SUPERSUPPORT UNDER SUPERCAP**  
SCALE 1:5



**13 | SUPERSUPPORT DOUBLE**  
SCALE 1:5



**SUPER SLEEPER**  
Composite Retaining Wall

SLEEPER WALLS PLANS, SECTIONS AND DETAILS