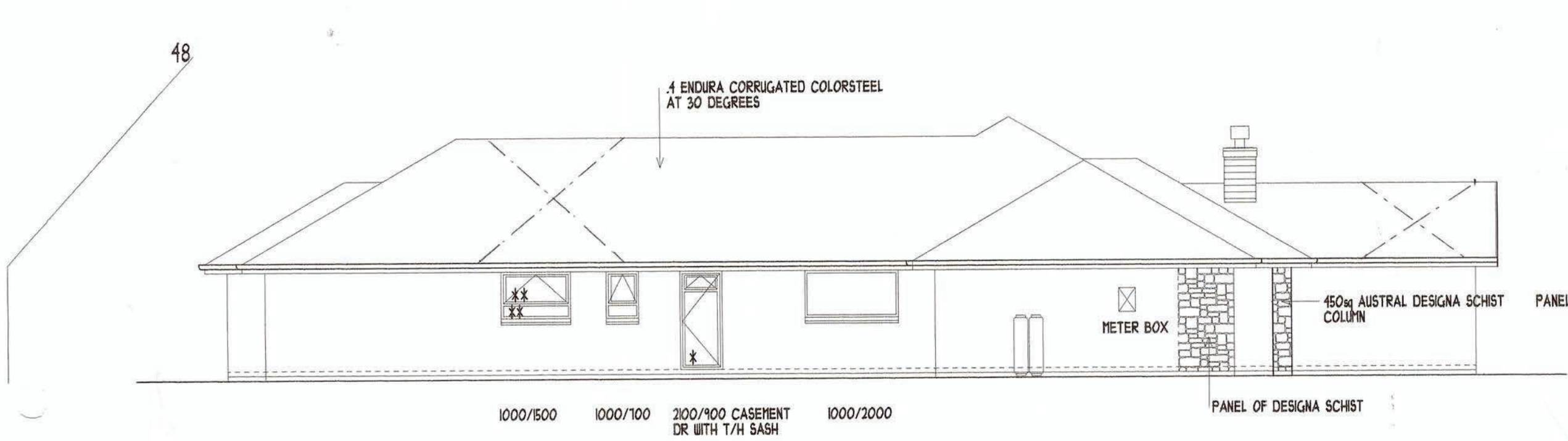




SOUTH THERMAL CALCULATIONS:  
TOTAL AREA OF THERMAL ENVELOPE: 63.12sqm  
TOTAL AREA OF GLAZED AREAS: 4.1sqm  
TOTAL PERCENTAGE OF ALL WALLS GLAZED: 6.4%

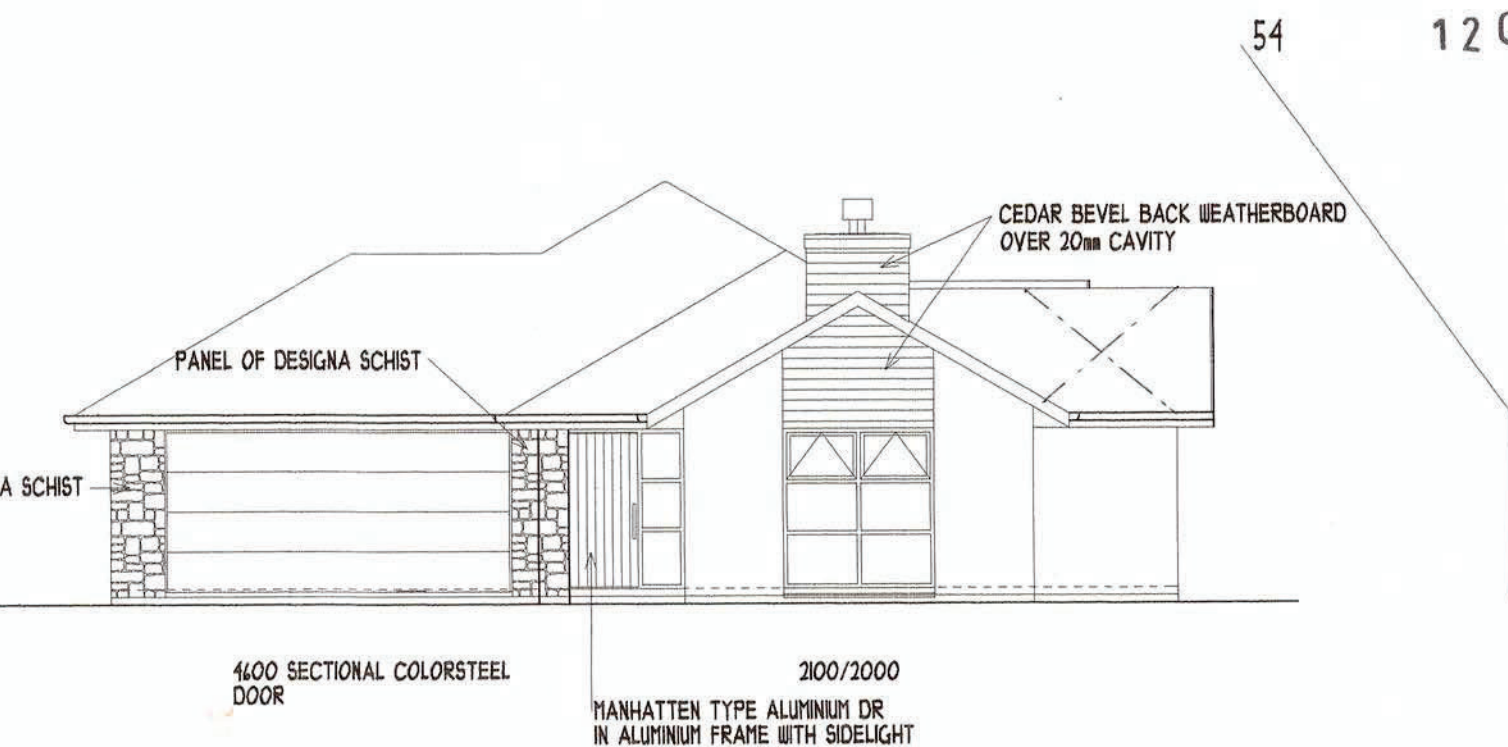
### SOUTH VIEW

| Elevation : ALL               | Risk severity |     |        |      |           |                                |   |
|-------------------------------|---------------|-----|--------|------|-----------|--------------------------------|---|
| Risk factor                   | LOW           | MED | MEDIUM | HIGH | VERY HIGH | SUBTOTALS FOR EACH RISK FACTOR |   |
| Wind zone                     | 0             | 0   |        |      | 2         |                                |   |
| Number of storeys             | 0             | 0   |        | 2    | 4         |                                | 0 |
| Roof/Wall intersection design | 0             | 0   |        | 3    | 5         |                                | 0 |
| Eaves width                   | 0             |     | 1      | 2    | 5         |                                | 1 |
| Envelope complexity           | 0             |     | 1      | 3    | 6         |                                | 1 |
| Deck design                   | 0             | 0   | 2      | 4    | 6         |                                | 0 |
| TOTAL RISK SCORE:             |               |     |        |      |           |                                | 3 |

NOTE: ALUMINIUM JOINERY & GLAZING  
VERIFY ALL DIMENSIONS ON SITE BEFORE MANUFACTURE  
ALL UNITS TO BE DOUBLE GLAZED-MIN R RATING 0.26  
INSULATED GLASS UNIT IGU CLEAR/CLEAR  
VERIFY ALL COLOURS, FINISHES, HANDLES, ETC WITH OWNER.  
VERIFY ALL DOORS TO BE KEYED ALIKE  
ALL TIMBER REVEALS SHALL BE H31 TREATED  
ALL GLAZING SHALL COMPLY WITH NZS 4223:1999.  
\* TYPE 'A' SAFETY GLAZING  
\*\* TYPE 'A' SAFETY GLAZING TO INSIDE

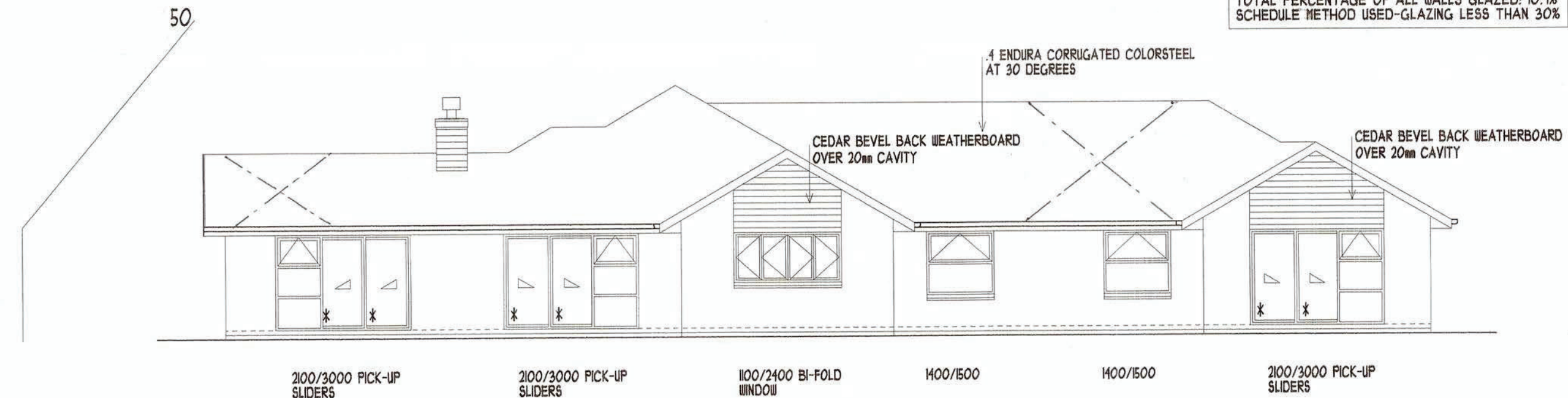
THERMAL CALCULATIONS:  
TOTAL AREA OF THERMAL ENVELOPE: 190.2sqm  
TOTAL AREA OF GLAZED AREAS: 31.3sqm  
TOTAL PERCENTAGE OF ALL WALLS GLAZED: 20.6%  
SCHEDULE METHOD USED-GLAZING LESS THAN 30%

SOUTH/EAST/WEST THERMAL CALCULATIONS:  
TOTAL AREA OF THERMAL ENVELOPE: 126.5sqm  
TOTAL AREA OF GLAZED AREAS: 13.6sqm  
TOTAL PERCENTAGE OF ALL WALLS GLAZED: 10.7%  
SCHEDULE METHOD USED-GLAZING LESS THAN 30%



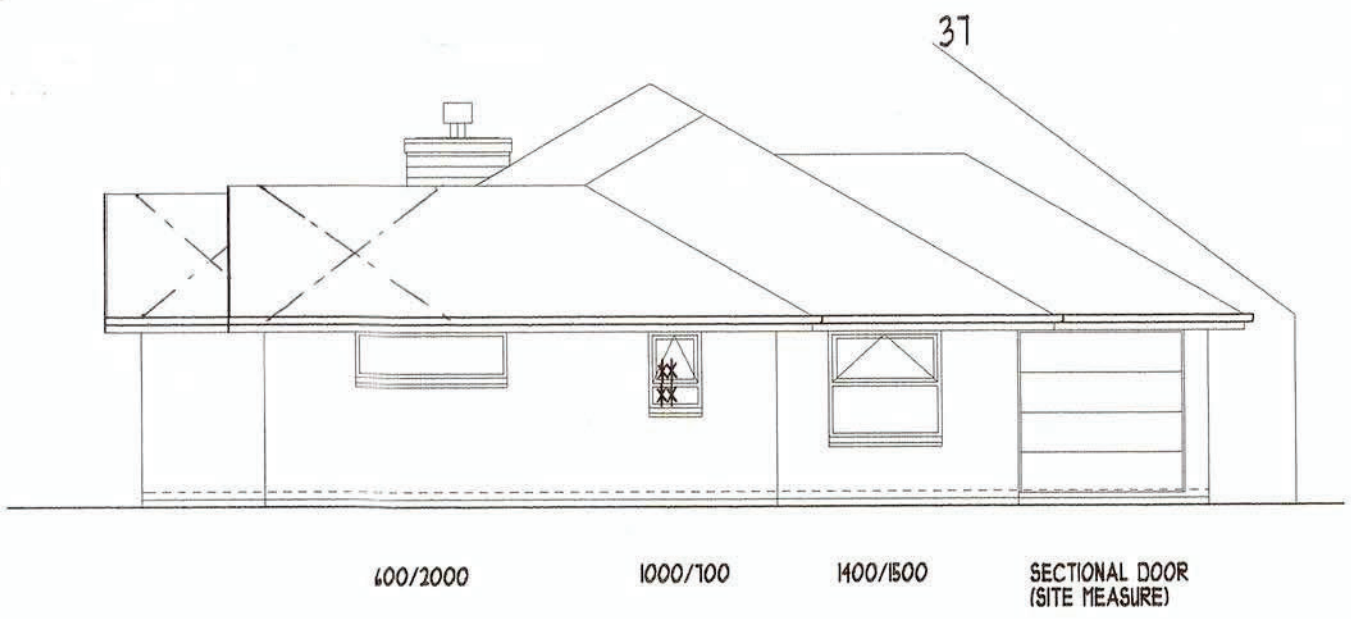
EAST THERMAL CALCULATIONS:  
TOTAL AREA OF THERMAL ENVELOPE: 31.4sqm  
TOTAL AREA OF GLAZED AREAS: 5.5sqm  
TOTAL PERCENTAGE OF ALL WALLS GLAZED: 17.5%

### EAST VIEW (STREET)



NORTH THERMAL CALCULATIONS:  
TOTAL AREA OF THERMAL ENVELOPE: 63.12sqm  
TOTAL AREA OF GLAZED AREAS: 25.1sqm  
TOTAL PERCENTAGE OF ALL WALLS GLAZED: 40.3%

### NORTH VIEW



WEST THERMAL CALCULATIONS:  
TOTAL AREA OF THERMAL ENVELOPE: 31.4sqm  
TOTAL AREA OF GLAZED AREAS: 4sqm  
TOTAL PERCENTAGE OF ALL WALLS GLAZED: 12.7%

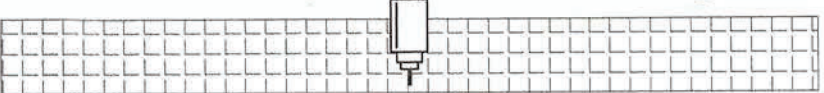
### WEST VIEW

INSULATION TO BE USED:  
CEILINGS: R3.6 FIBREGLASS BATTS  
WALLS: R2.8 FIBREGLASS BATTS  
FLOOR: 100mm CONCRETE SLAB  
DOUBLE GLAZING: R0.26 CLEAR/CLEAR

Waimakariri District Council  
Plans and Specifications approved  
in accordance with The Building Act 2004,  
Clause 49 and The Building Regulations  
1992, Clause 3.

Signed: *[Signature]* 17.5.12

Warren Sheddan - Architectural Designer



42 Happy Home Road-Christchurch 8025  
Phone (03) 338 1206 Fax (03) 338 1206  
email: w.sheddan@clear.net.nz

PROPOSED RESIDENCE FOR LOT 103 DP359861 (No 42)  
SYCAMORE CLOSE - RANGIORA  
FOR MODECONSTRUCTION LTD

ELEVATIONS

Date : Thursday, 29 March, 2012

Scales : 1:100

Shts :  
Sht 1 of 8

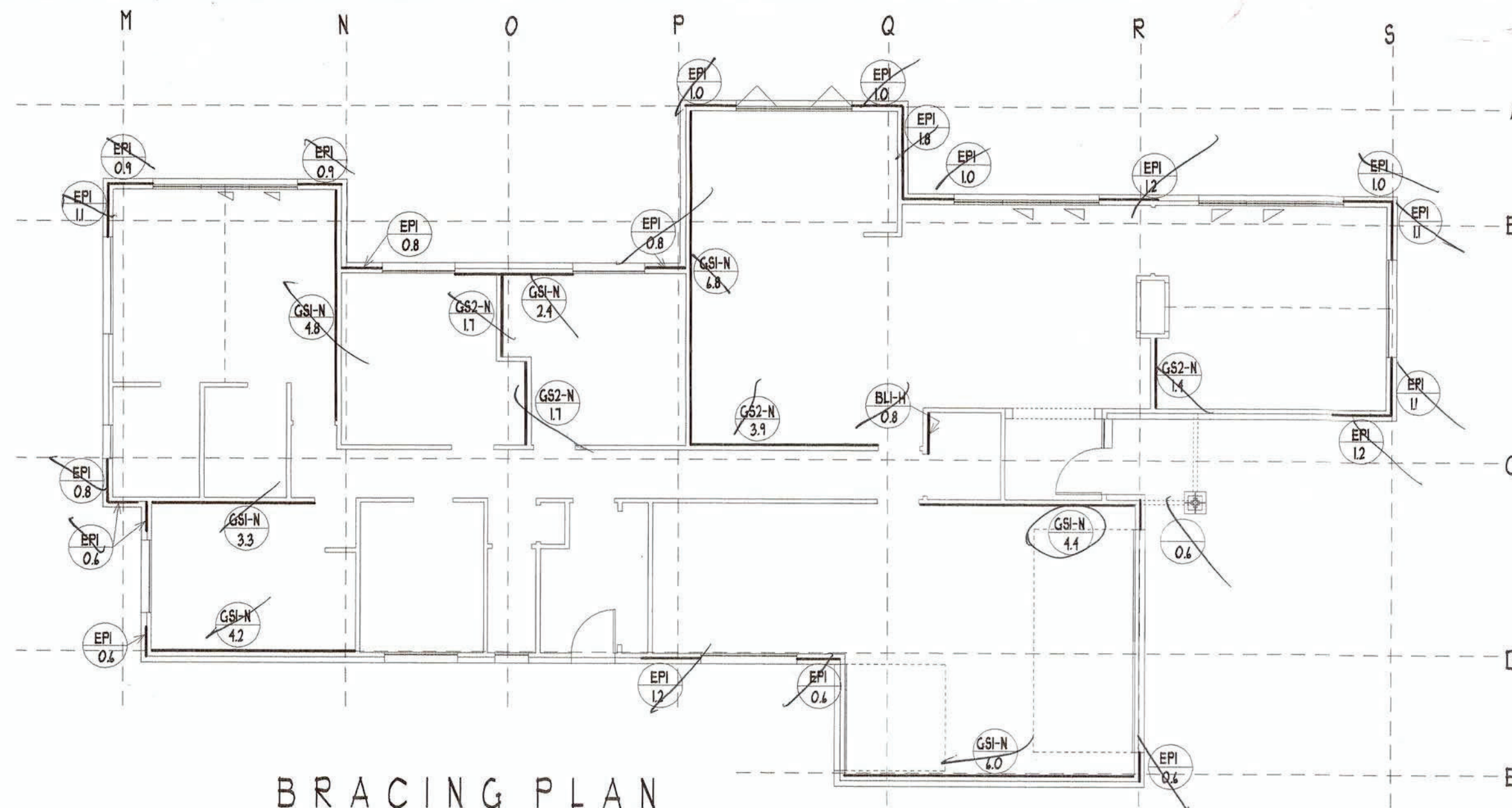
Ref No :  
SP121

120820



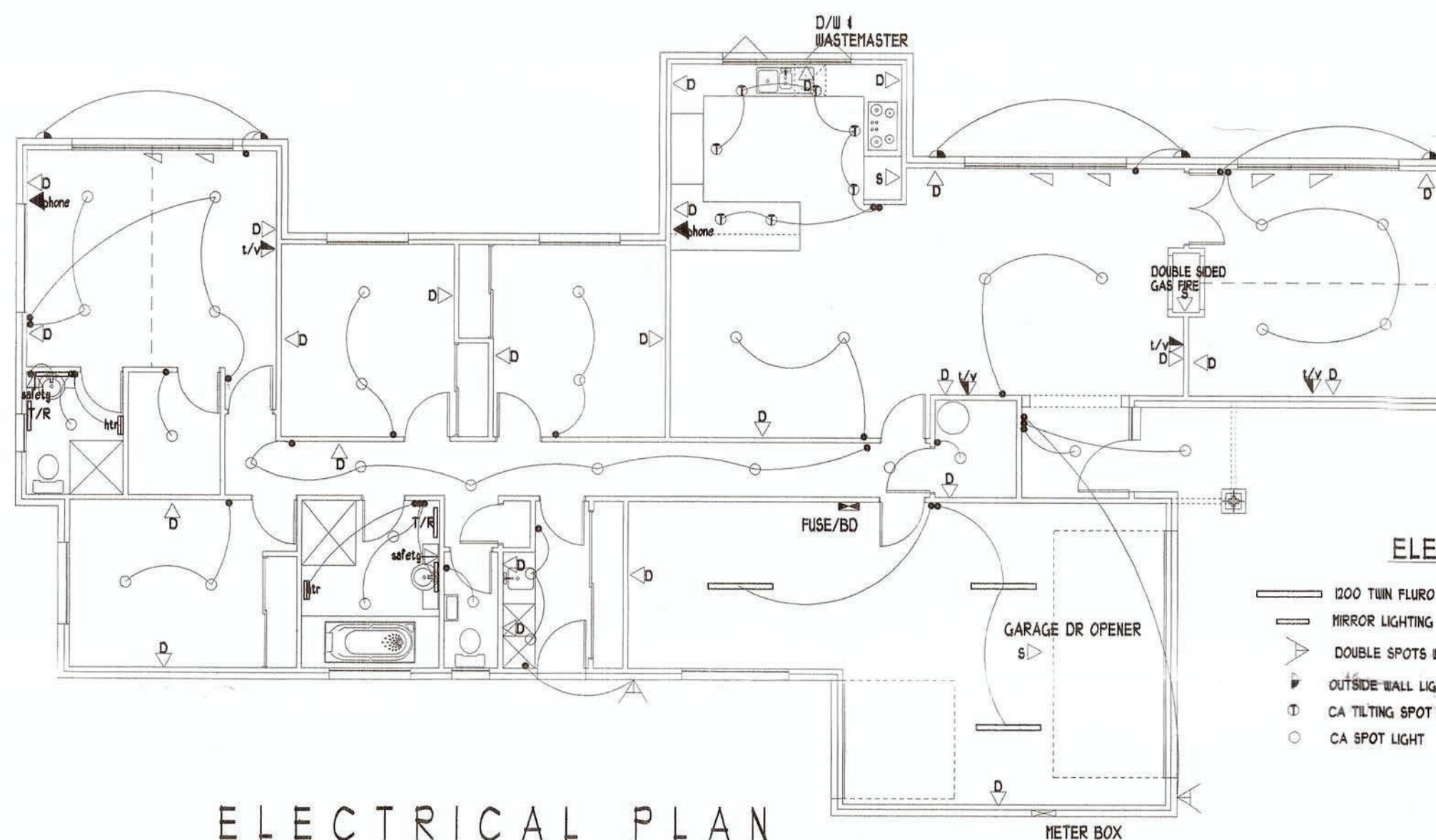
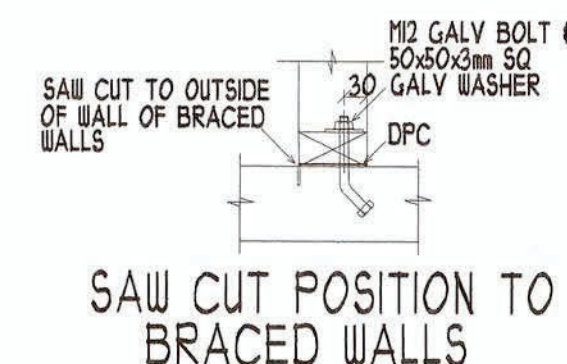
Shts: Sht 2 of 8 Ref No: SPI27

120820



BRACING PLAN

-GIB BRACING SYSTEMS TO BE FIXED AS DETAILED IN GIB EzyBracing SYSTEMS MANUAL (JUNE 2011), VIEW ON [www.gib.co.nz](http://www.gib.co.nz)  
 -ALL EXTERIOR PLY BRACING TO BE CARTER HOLT HARVEY 7mm H3 ECOPLY PLYBRACE. ALL BRACING SHEETS SHOWN SHALL BE FIXED AS DETAILED IN STRUCTURAL PLYWOOD PROPERTIES & APPLICATIONS MANUAL (MAY 2010), OR VIEW ON [www.ecoply.co.nz](http://www.ecoply.co.nz). ALL FIXINGS TO BE GALV



ELECTRICAL PLAN

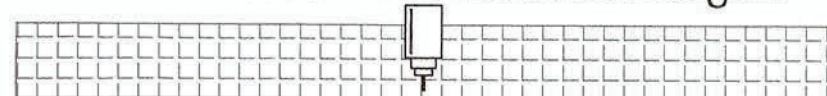
ELECTRICAL KEY

- |                          |                                     |
|--------------------------|-------------------------------------|
| 1200 TWIN FLUO           | DOUBLE SWITCHED SOCKET              |
| MIRROR LIGHTING          | SINGLE SWITCHED SOCKET              |
| DOUBLE SPOTS WITH SENSOR | DOUBLE SWITCH BATHRM SOCKET         |
| OUTSIDE WALL LIGHT       | TV SOCKET                           |
| CA TILTING SPOT LIGHT    | TELEPHONE SOCKET                    |
| CA SPOT LIGHT            | SKOPE MODEL TRBOX HEATED TOWEL RAIL |
|                          | SKOPE MODEL 988Q BATHRM HEATER      |

Waimakariri District Council  
 Plans and Specifications approved  
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 Clause 49 and The Building Regulations  
 1992, Clause 3.

Signed: *[Signature]* 17.5.12

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 email: [w.sheddan@clear.net.nz](mailto:w.sheddan@clear.net.nz)

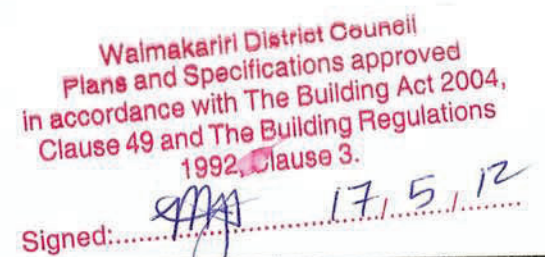
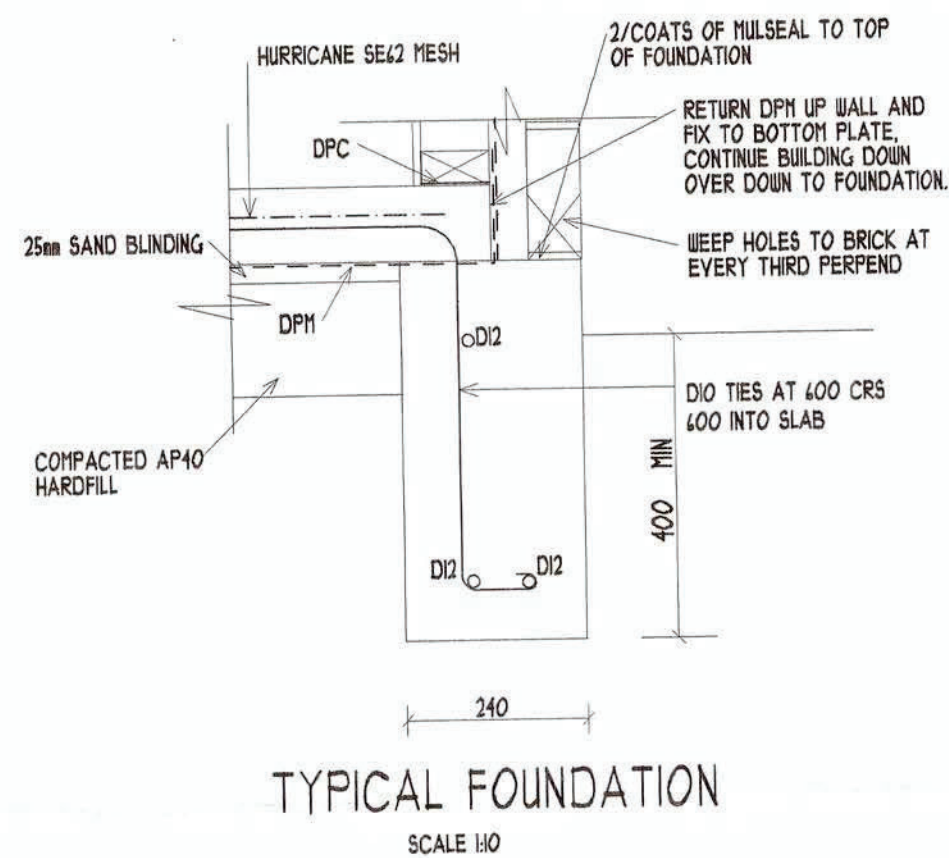
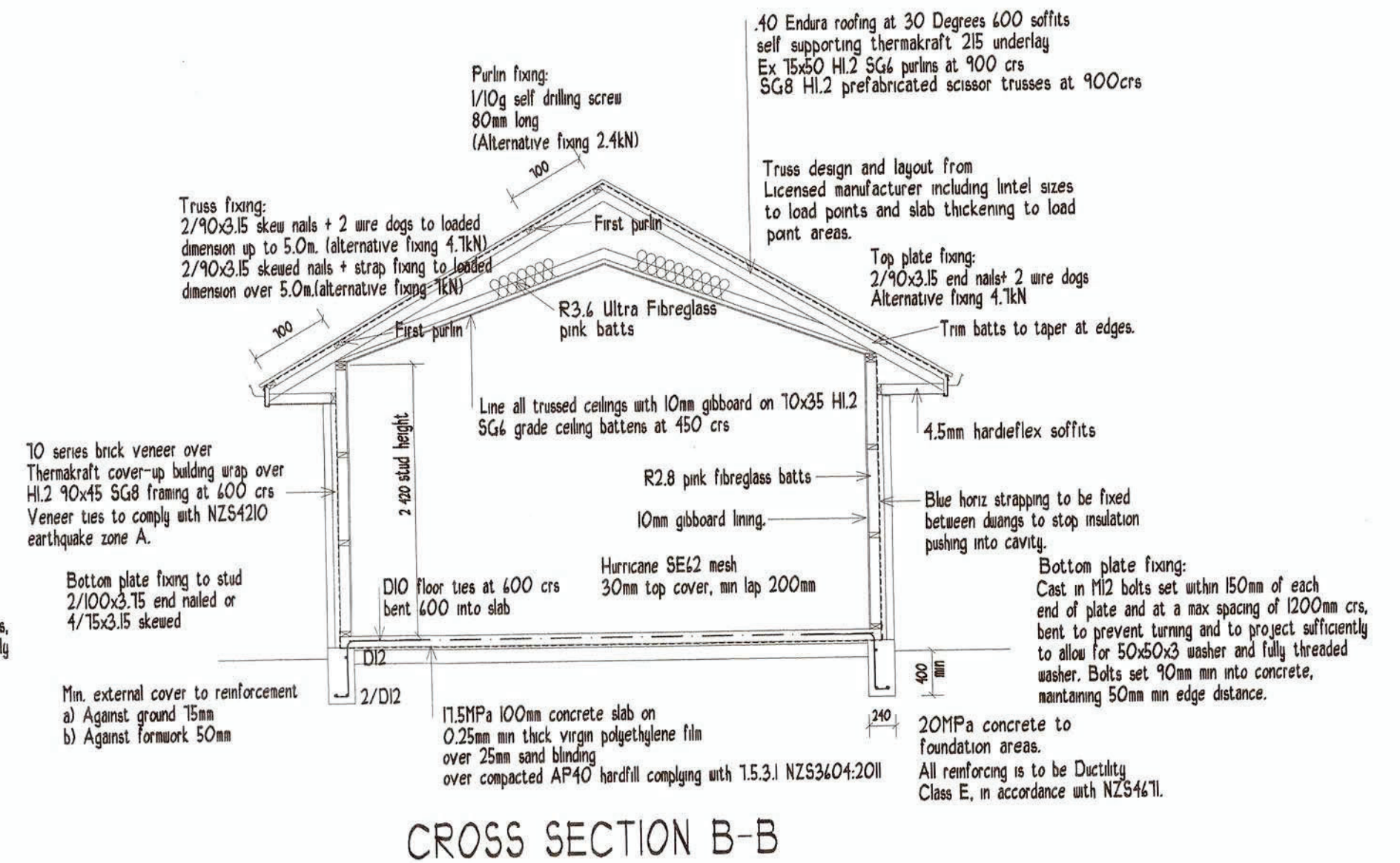
PROPOSED RESIDENCE FOR LOT 103 DP359861 (No 42)  
 SYCAMORE CLOSE - RANGIORA  
 FOR MODECONSTRUCTION LTD

BRACING PLAN  
 ELECTRICAL PLAN

Date : Thursday, 29 March, 2012

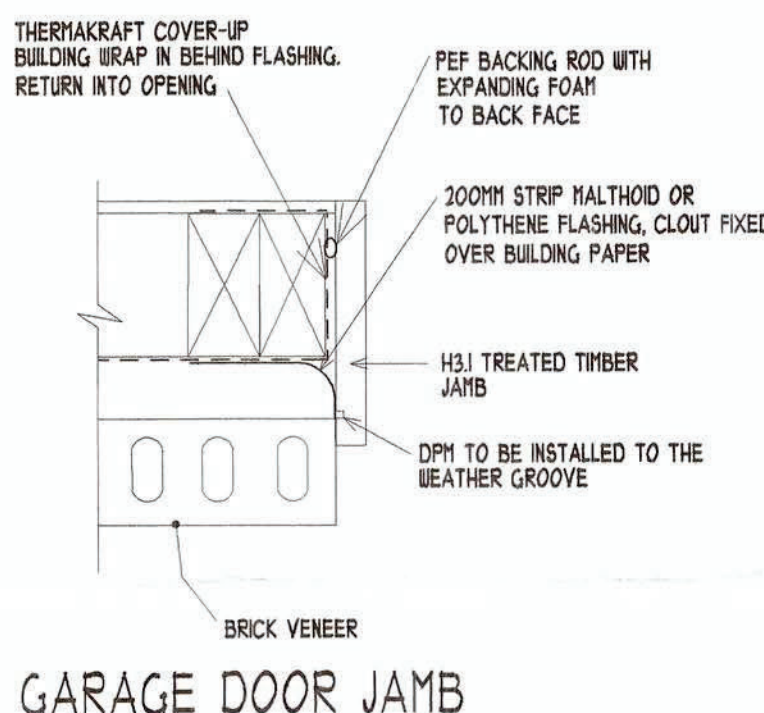
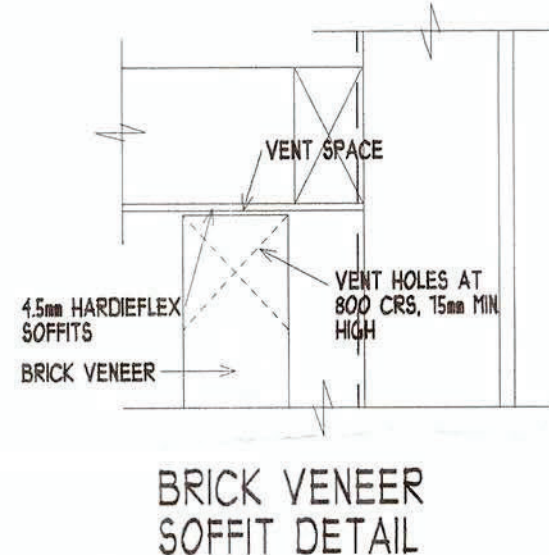
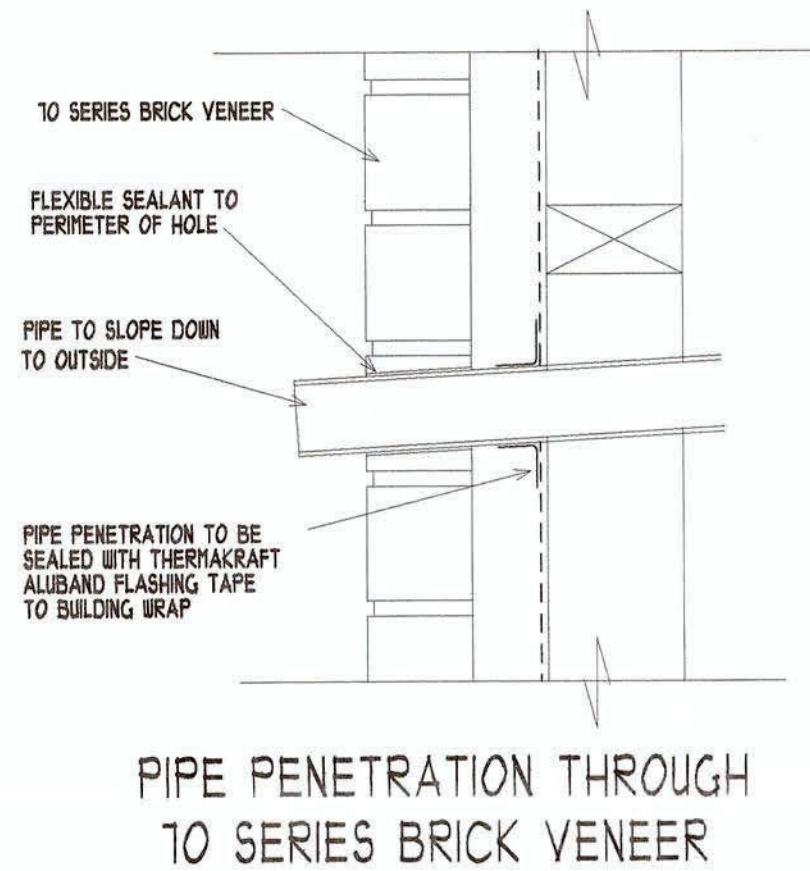
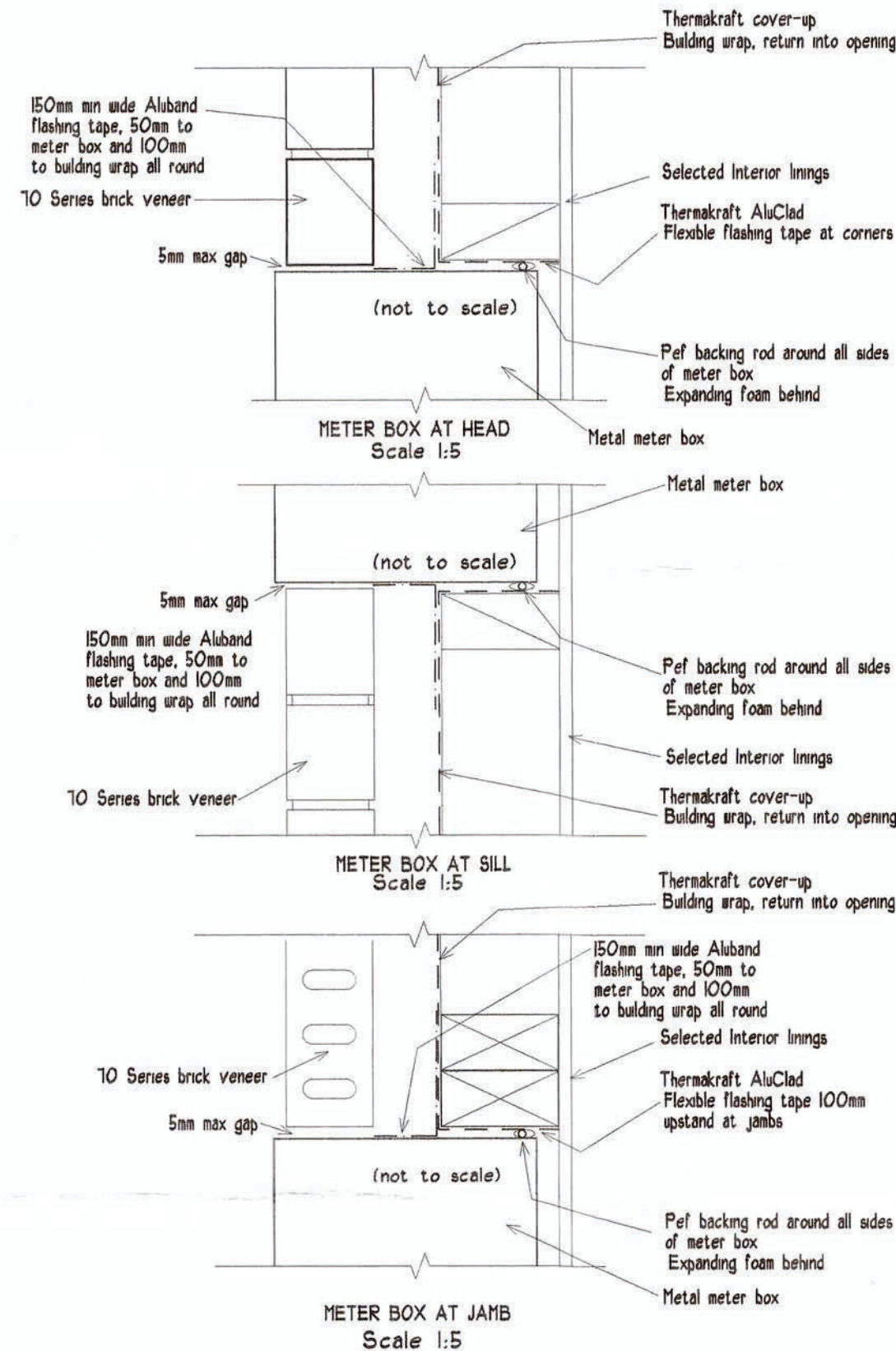
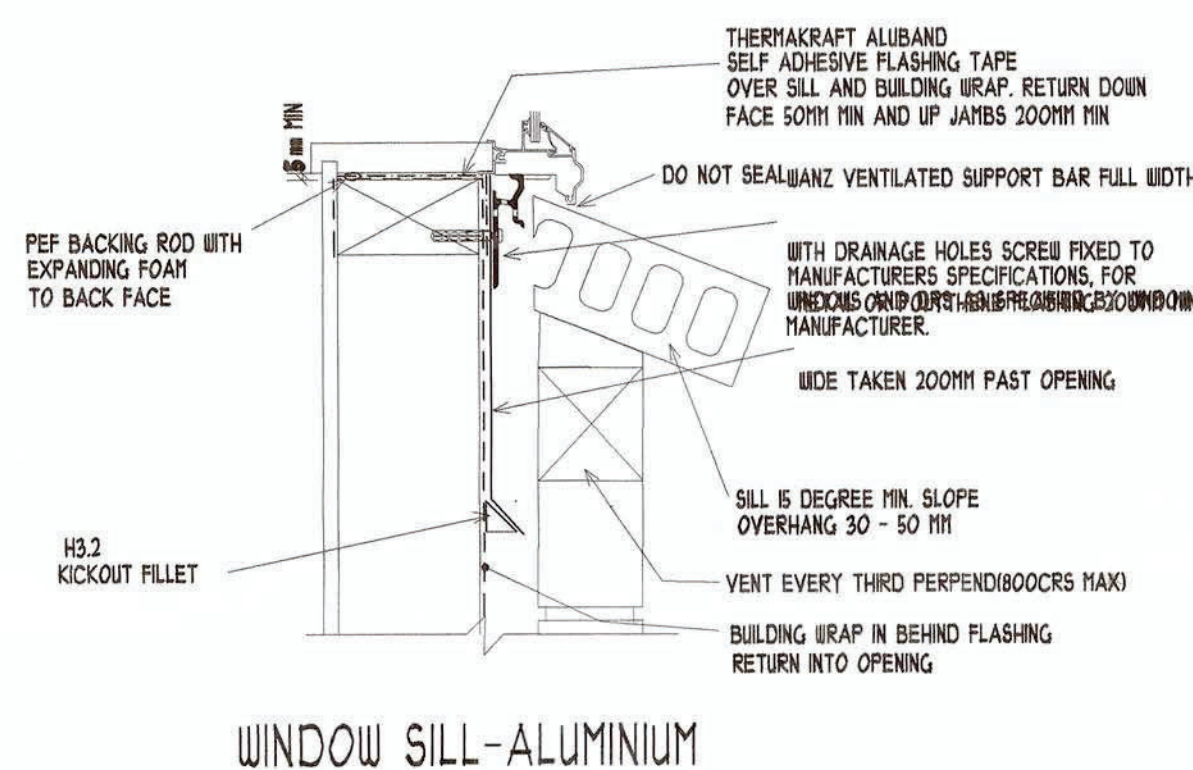
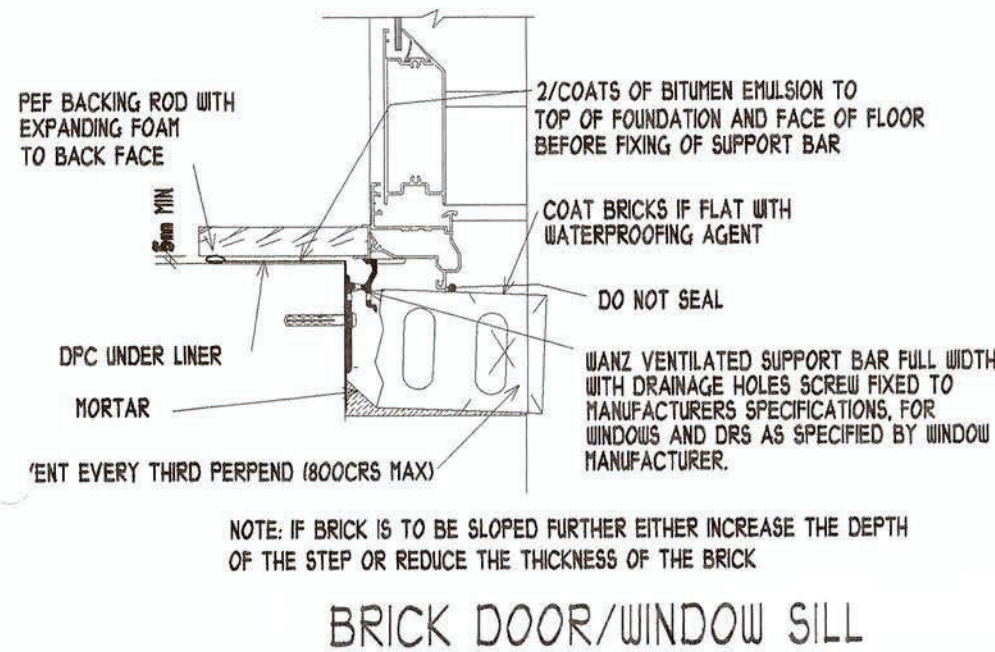
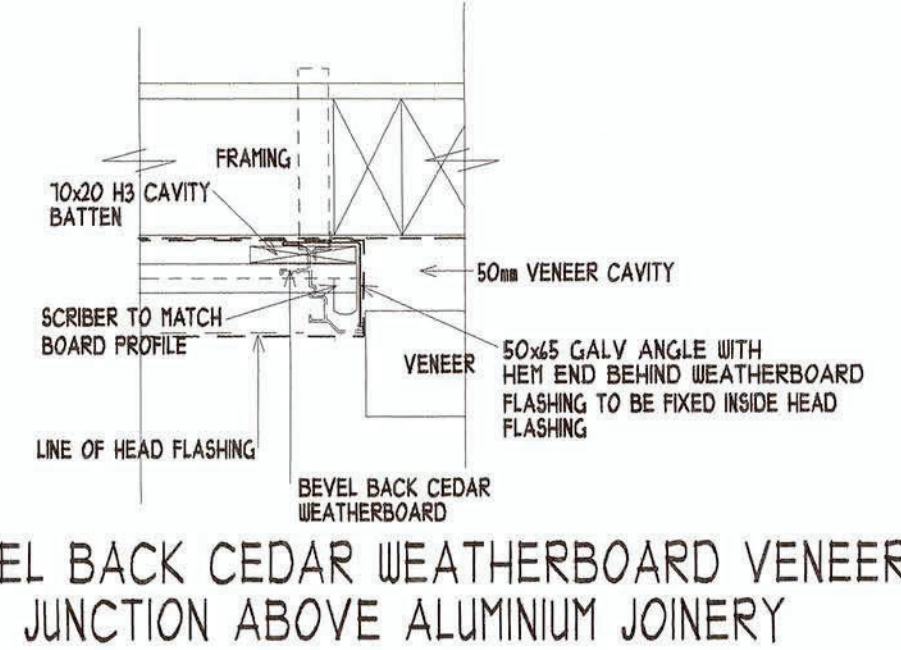
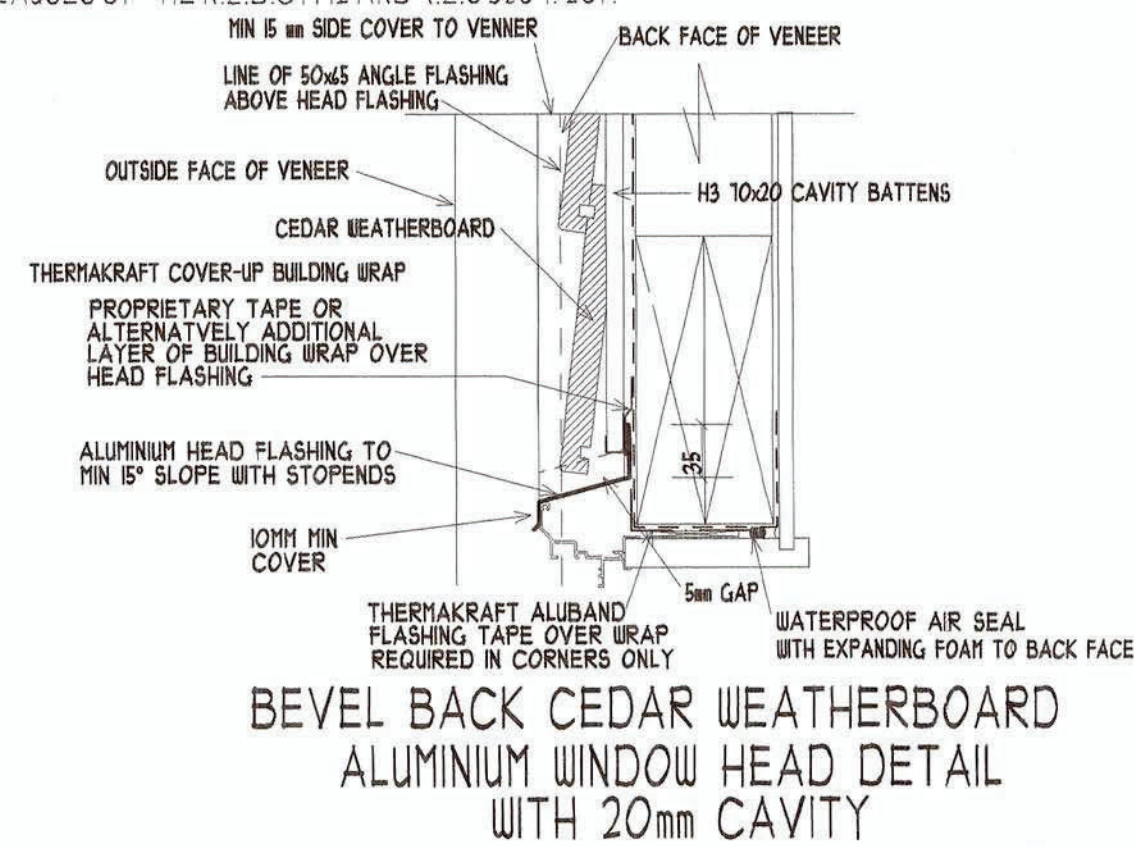
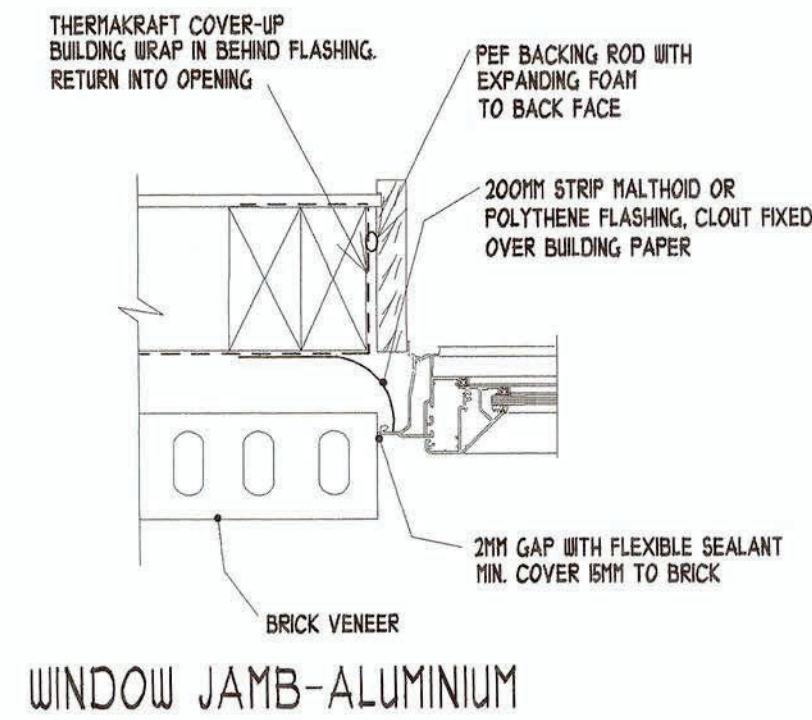
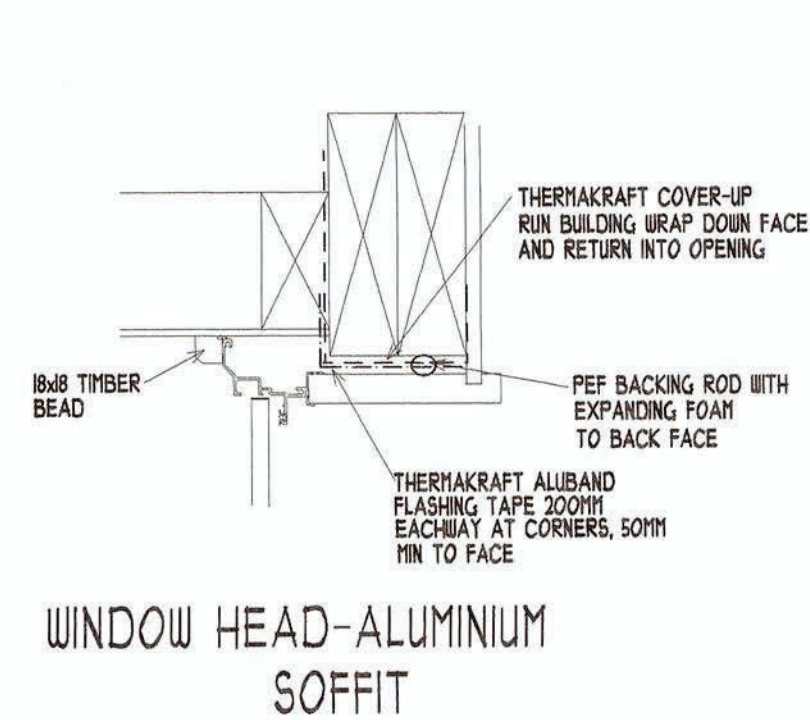
Scales : 1:100 1:10

Shts :  
 Sht 3 of 8  
 Ref No :  
 SPI21



NOTE: ALL DIMENSIONS TO BE VERIFIED ON SITE BY BUILDER BEFORE AND DURING CONSTRUCTION. ALL WORK TO COMPLY WITH THE RELEVANT CLAUSES OF THE N.Z.B.C 1992 AND N.Z.S 3404: 2011.

120820

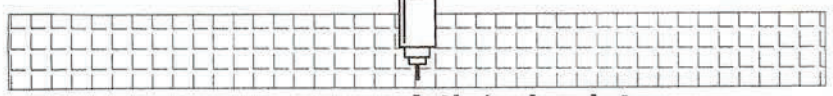


FLASHING DETAILS FOR METER BOX TO BRICK VENEER

MASONRY OPENING COMPLYING WITH E2/AS1 SECTION 9.2.1

Waimakariri District Council  
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Signed: *[Signature]* 17.5.12

Warren Sheddan - Architectural Designer



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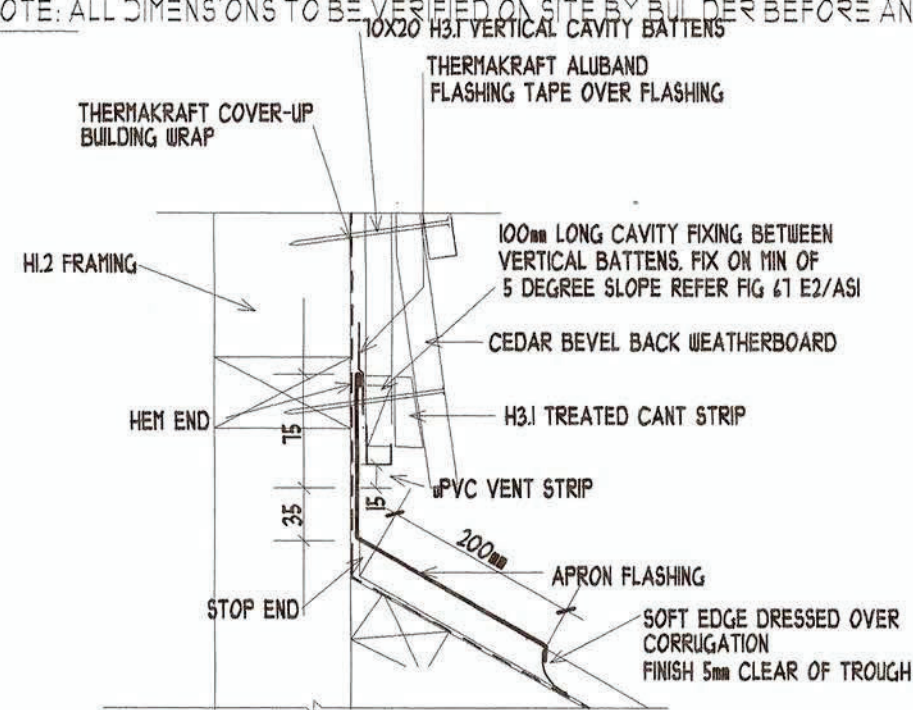
BRICK VENEER DETAILS  
CEDAR WEATHERBD DETAILS  
METERBOX DETAILS

Date : Thursday, 29 March, 2012

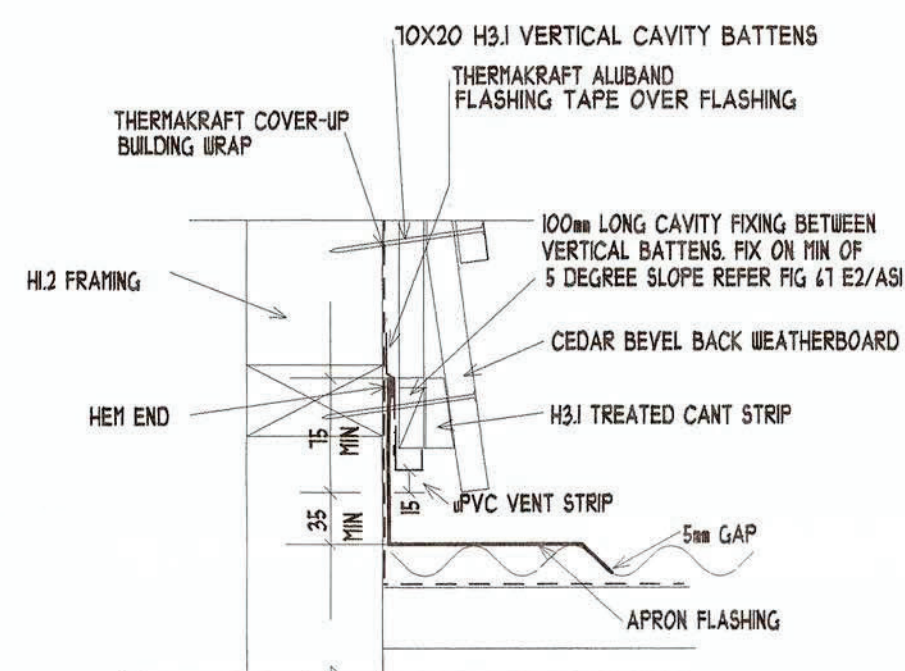
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Sht 5 of 8  
Ref No :  
SPI21

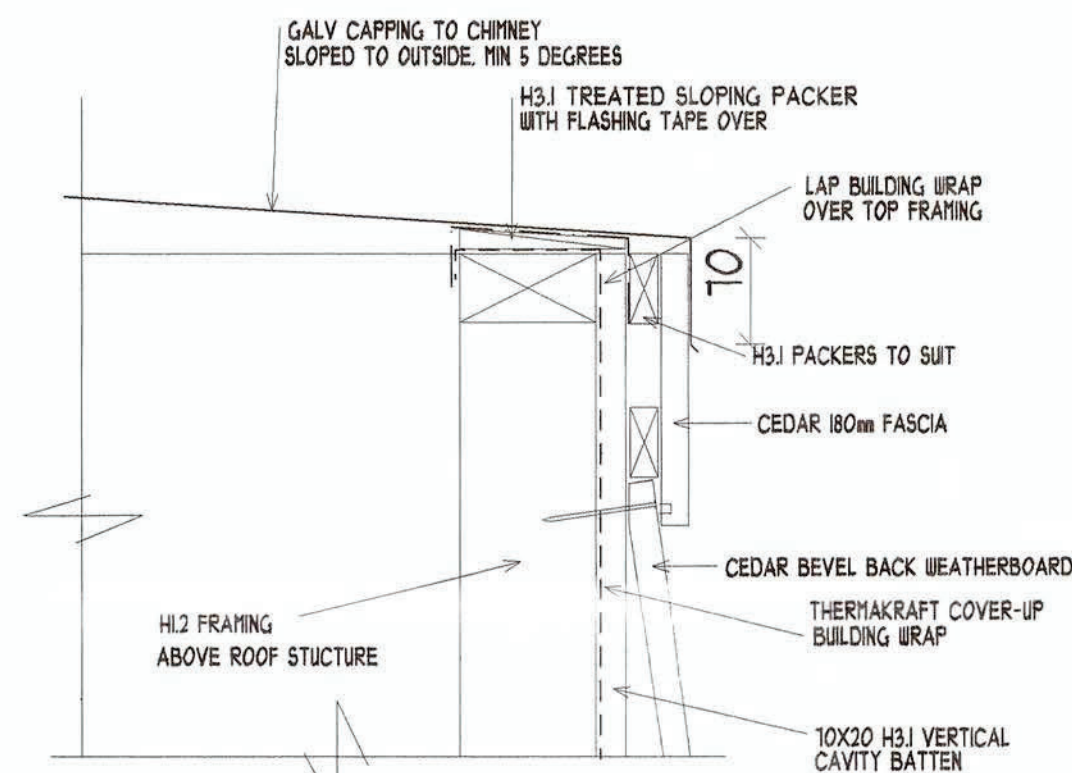
NOTE: ALL DIMENSIONS TO BE VERIFIED ON SITE BY BUILDER BEFORE AND DURING CONSTRUCTION. ALL WORK TO COMPLY WITH THE RELEVANT CLAUSES OF THE N.Z.B.C 1992 AND N.Z.S 3604: 2011.



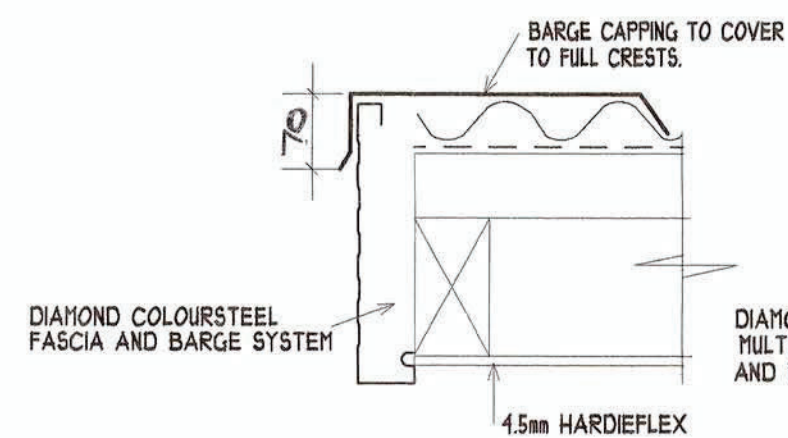
CEADR WEATHERBOARD CHIMNEY  
APRON FLASHING AT LOWER SIDE



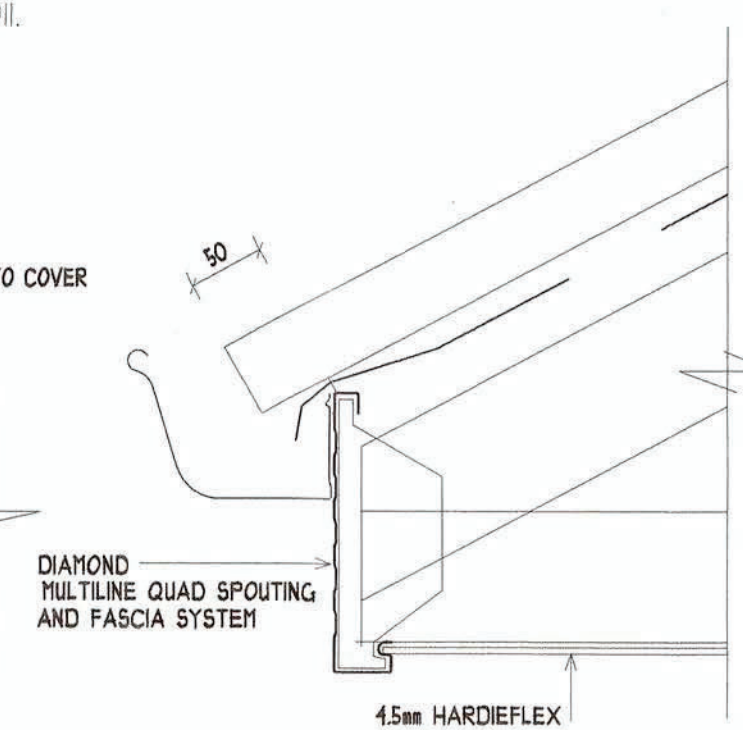
CEDAR WEATHERBOARD CHIMNEY  
APRON FLASHING AT SIDE



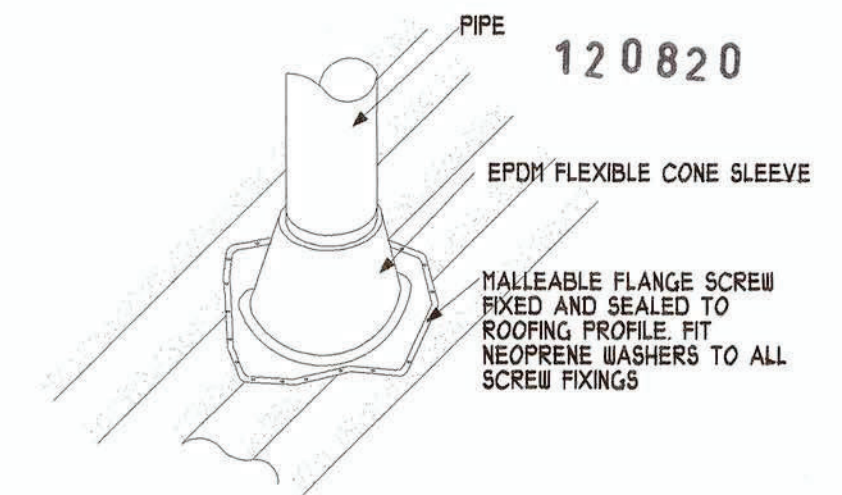
CHIMNEY CAPPING



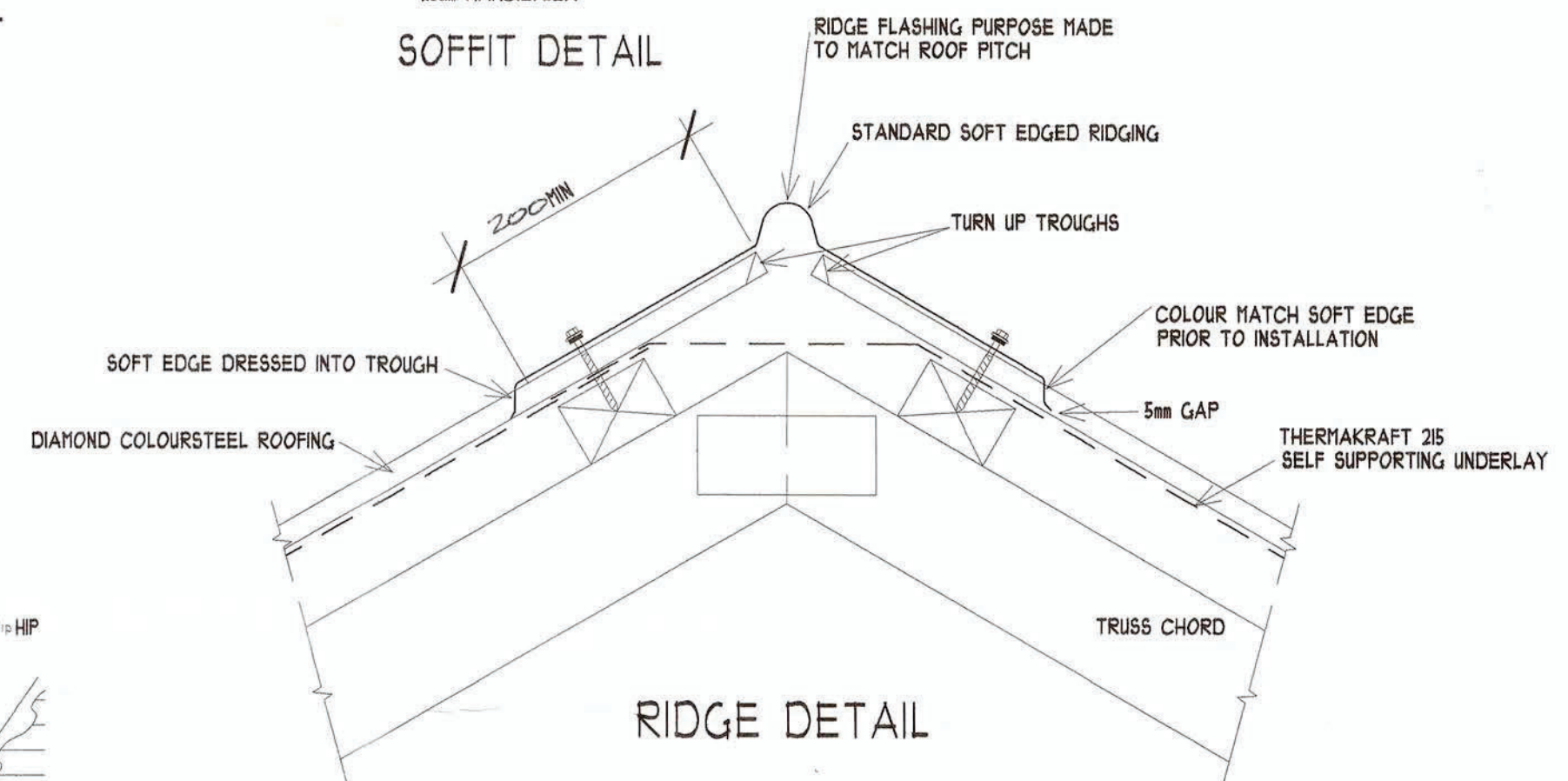
BARGE DETAIL



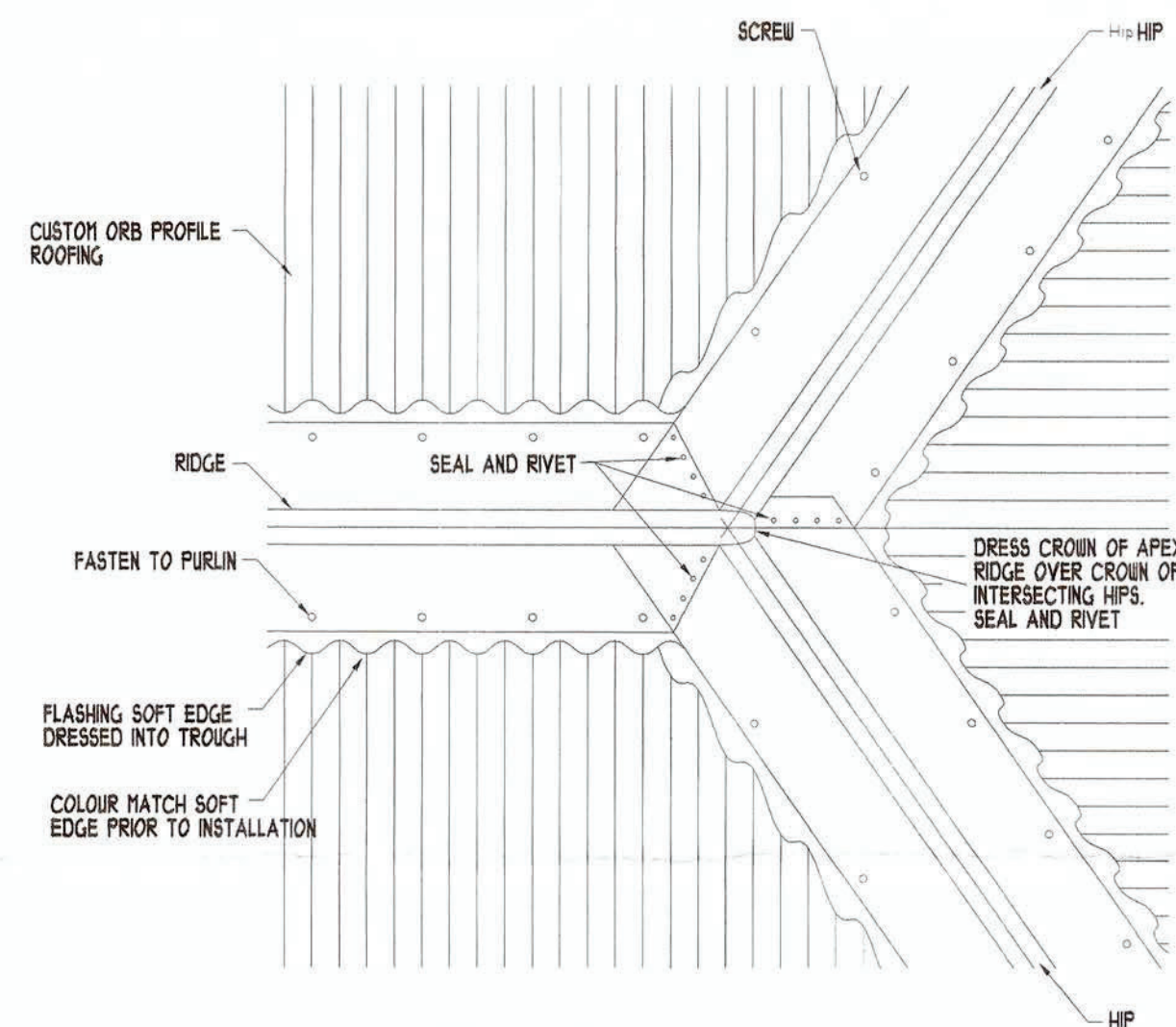
SOFFIT DETAIL



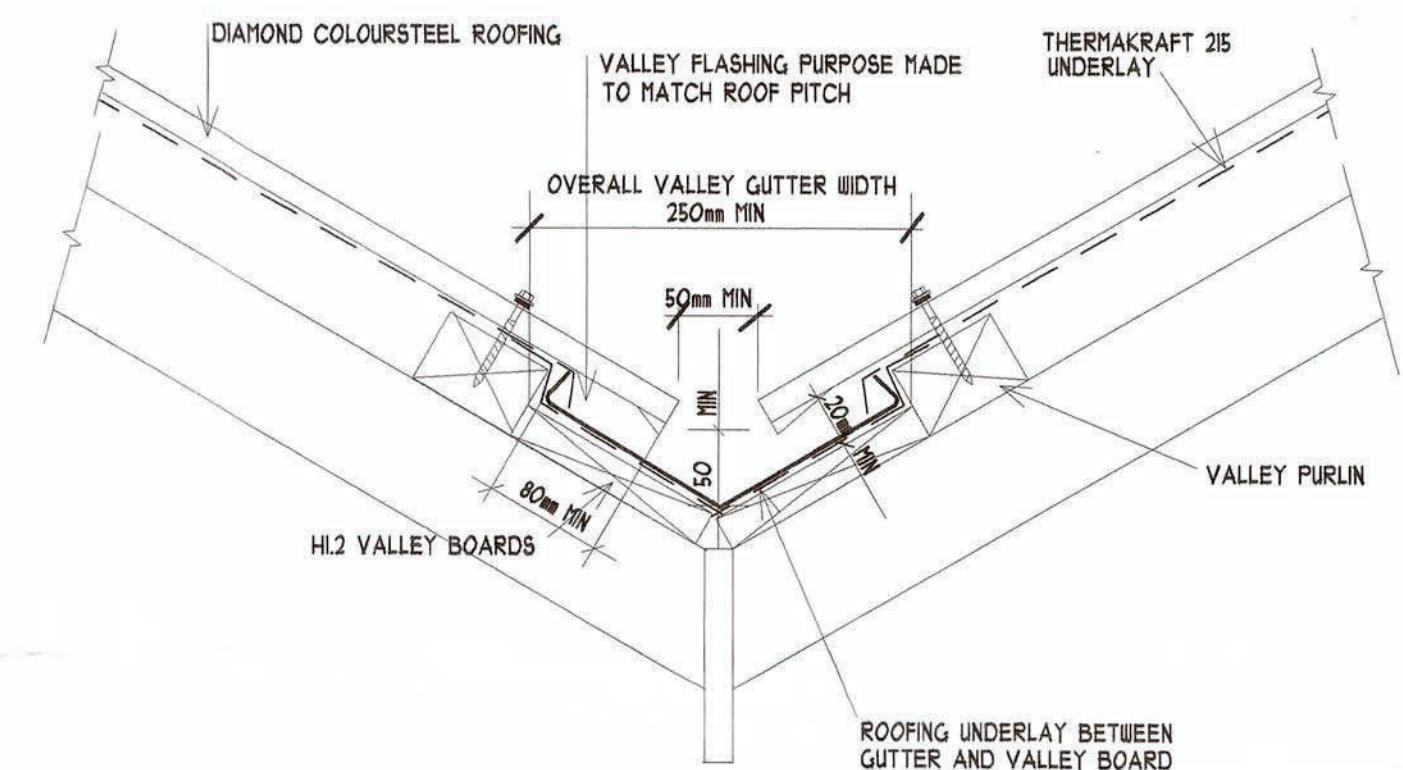
ROOF PENETRATIONS FOR  
PIPES UP TO 85mm DIA  
CORRUGATED PROFILE



RIDGE DETAIL



RIDGE HIP DETAIL

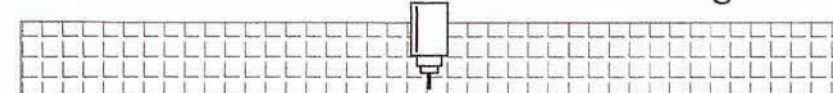


VALLEY DETAIL

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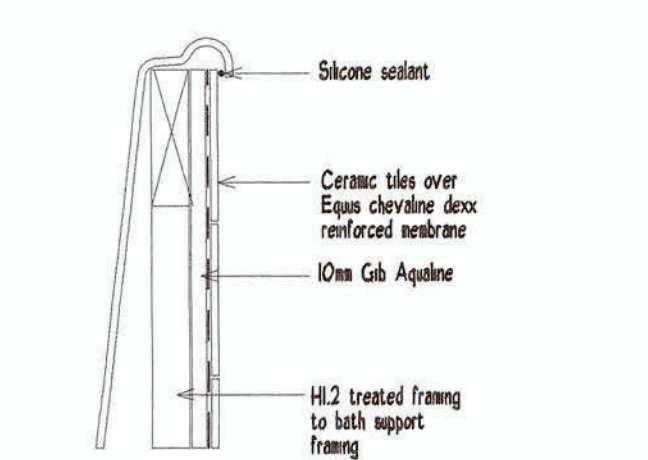
PROPOSED RESIDENCE FOR LOT 103 DP359861 (No 42)  
SYCAMORE CLOSE - RANGIORA  
FOR MODECONSTRUCTION LTD

CHIMNEY FLASHING DETAILS  
ROOFING FLASHING DETAILS

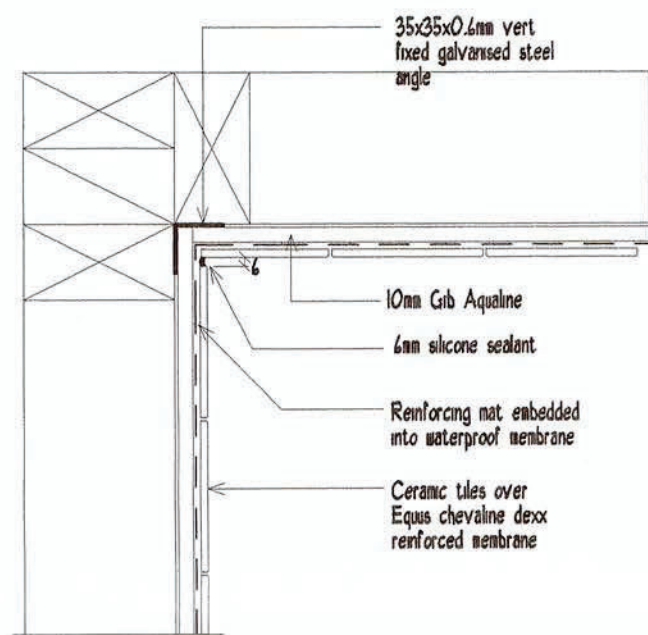
Date : Thursday, 29 March, 2012

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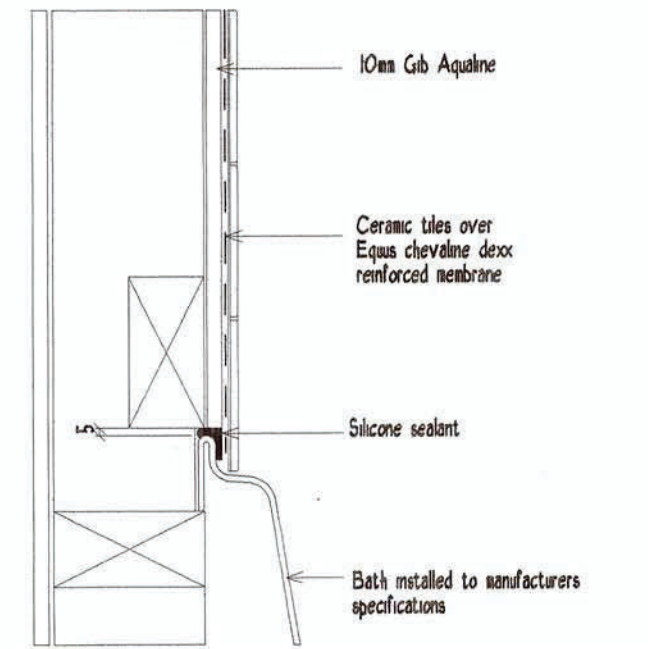
Shts:  
Sht 6 of 8  
Ref No :  
SP121



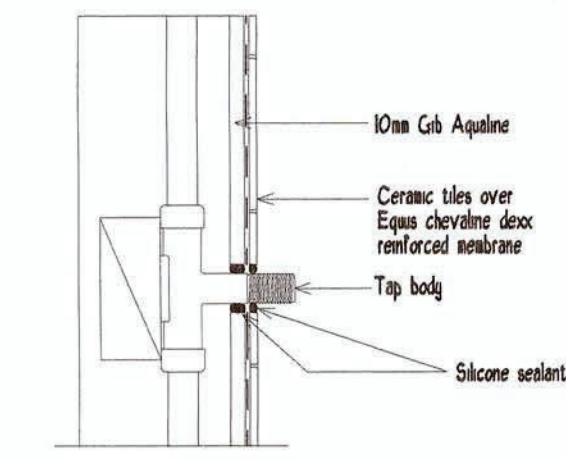
TILED BATH EDGE



INTERNAL CORNER DETAIL  
TILED WALLS

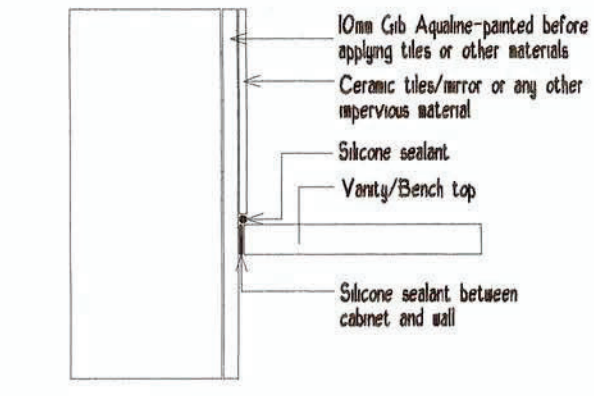


BATH/WALL DETAIL  
TILED WALLS

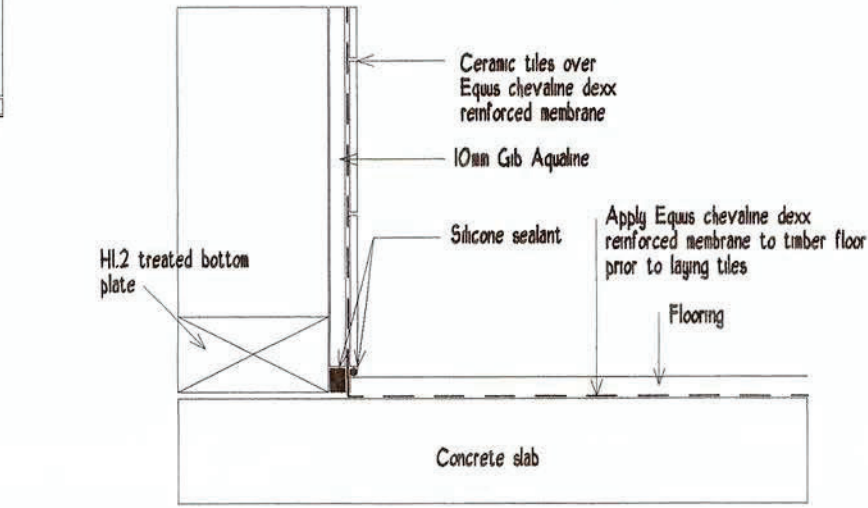


PIPE PENETRATION  
TILED WALL

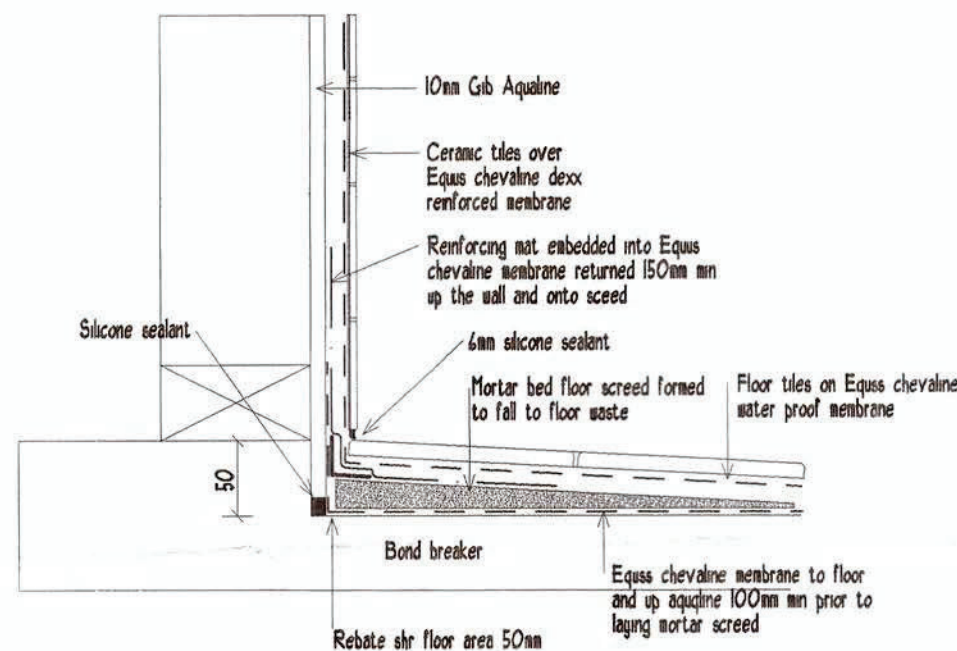
NOTE:  
All pipes to be fixed on resilient brackets.



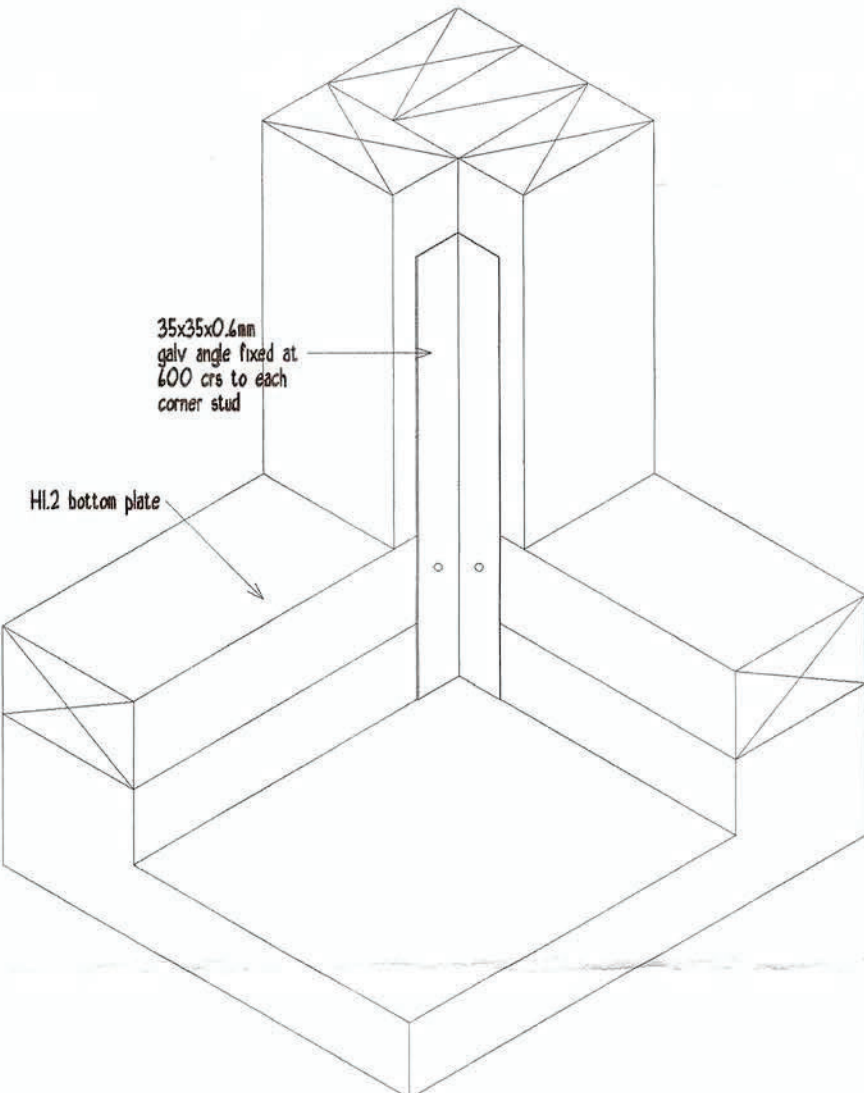
VANITY/BENCH TOPS  
IMPERVIOUS MATERIALS



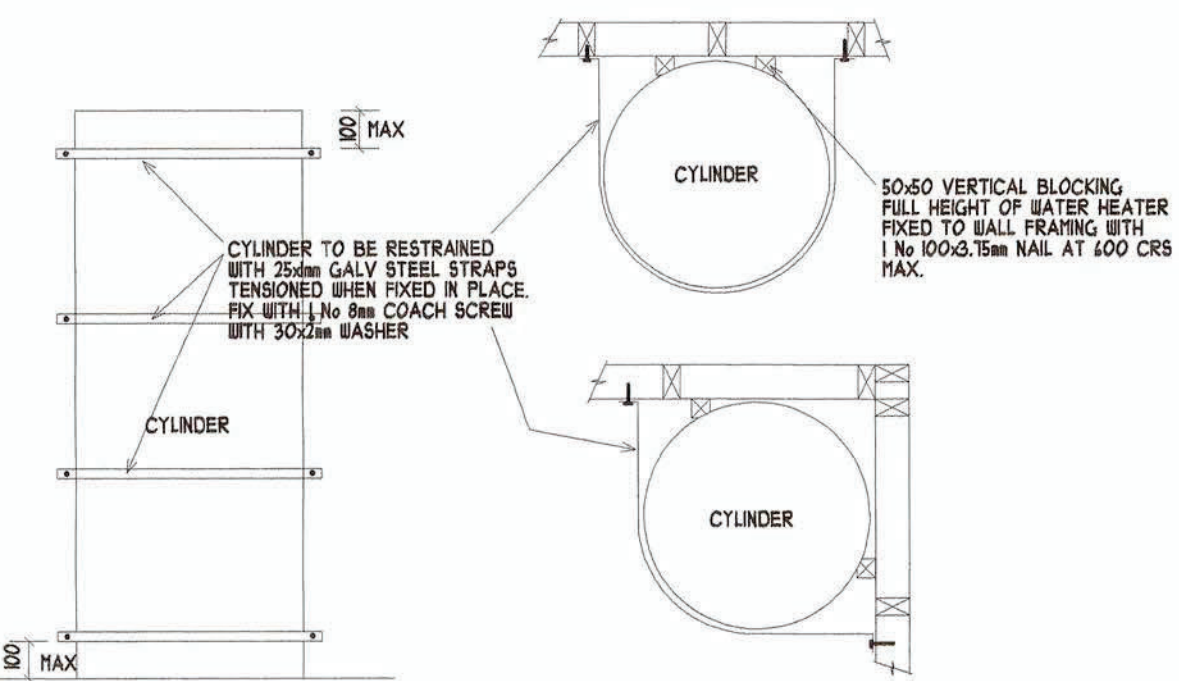
WALL/FLOOR DETAIL  
TILED WALLS AND FLOOR



TILED SHR WITH TILED WALLS

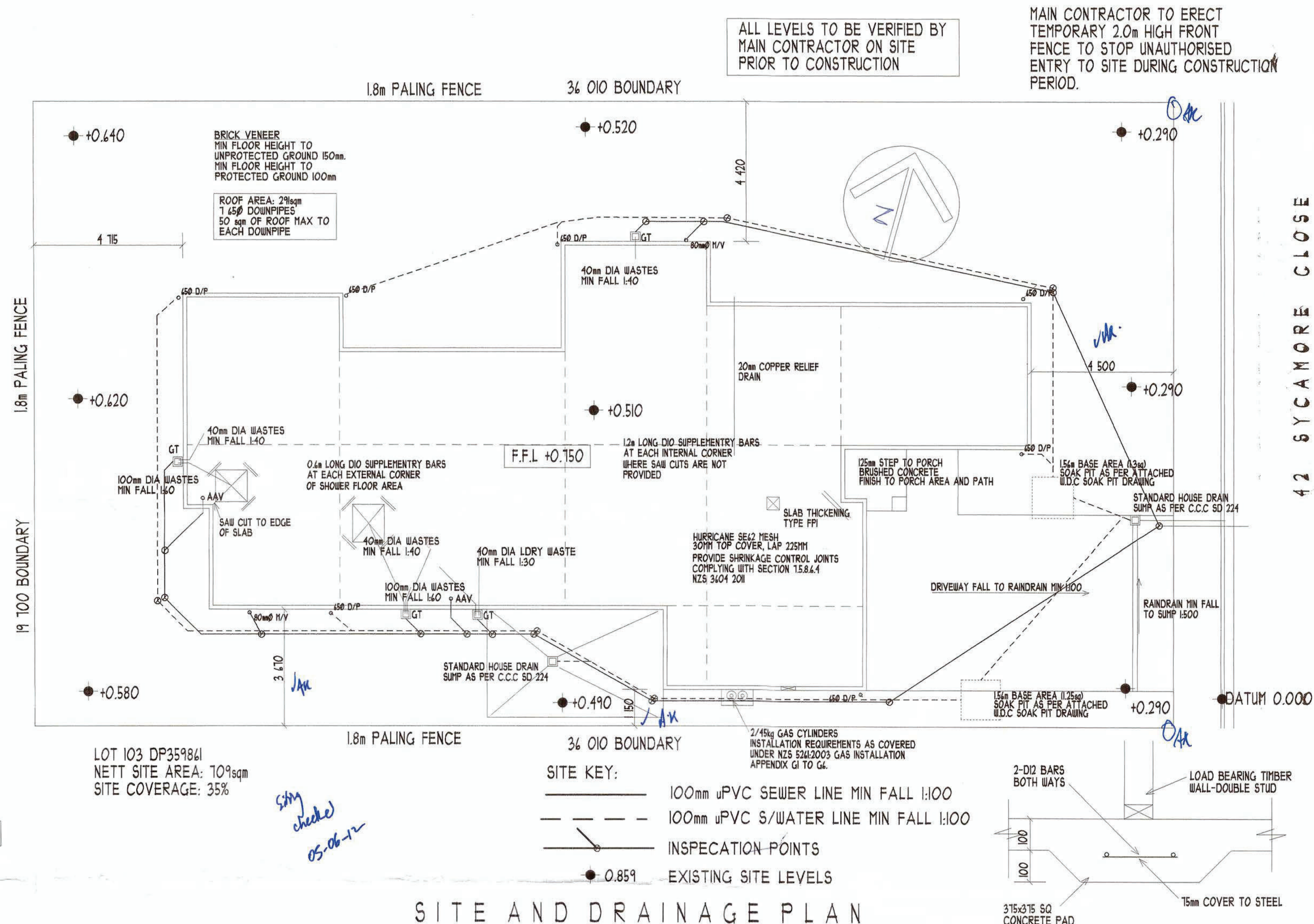
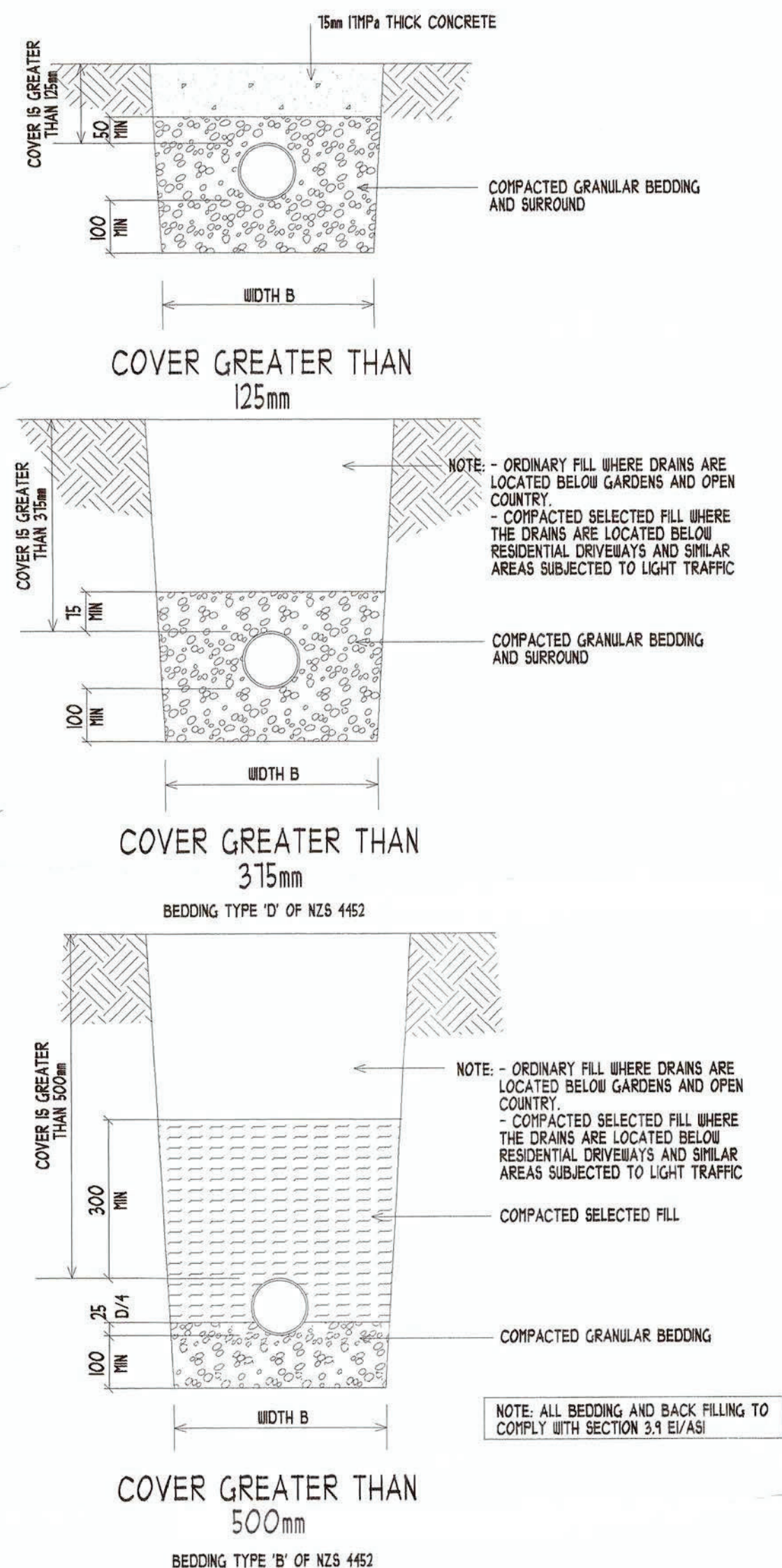


SHR CORNER ANGLE DETAIL



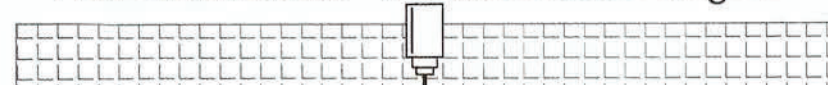
SEISMIC RETRAINT DETAILS FOR HOT  
WATER CYLINDER

Waimakariri District Council  
Plans and Specifications approved  
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Signed: *[Signature]* 17.5.12



SITE AND DRAINAGE PLAN

Warren Sheddan - Architectural Designer



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email: w.sheddan@clear.net.nz

PROPOSED RESIDENCE FOR LOT 103 DP359861 (No 42)  
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SITE AND DRAINAGE PLAN  
DRAIN DETAILS

Date: Thursday, 29 March, 2012

Scales: 1:100 1:10

Shts:  
Sht 8 of 8

Ref No:  
SP121