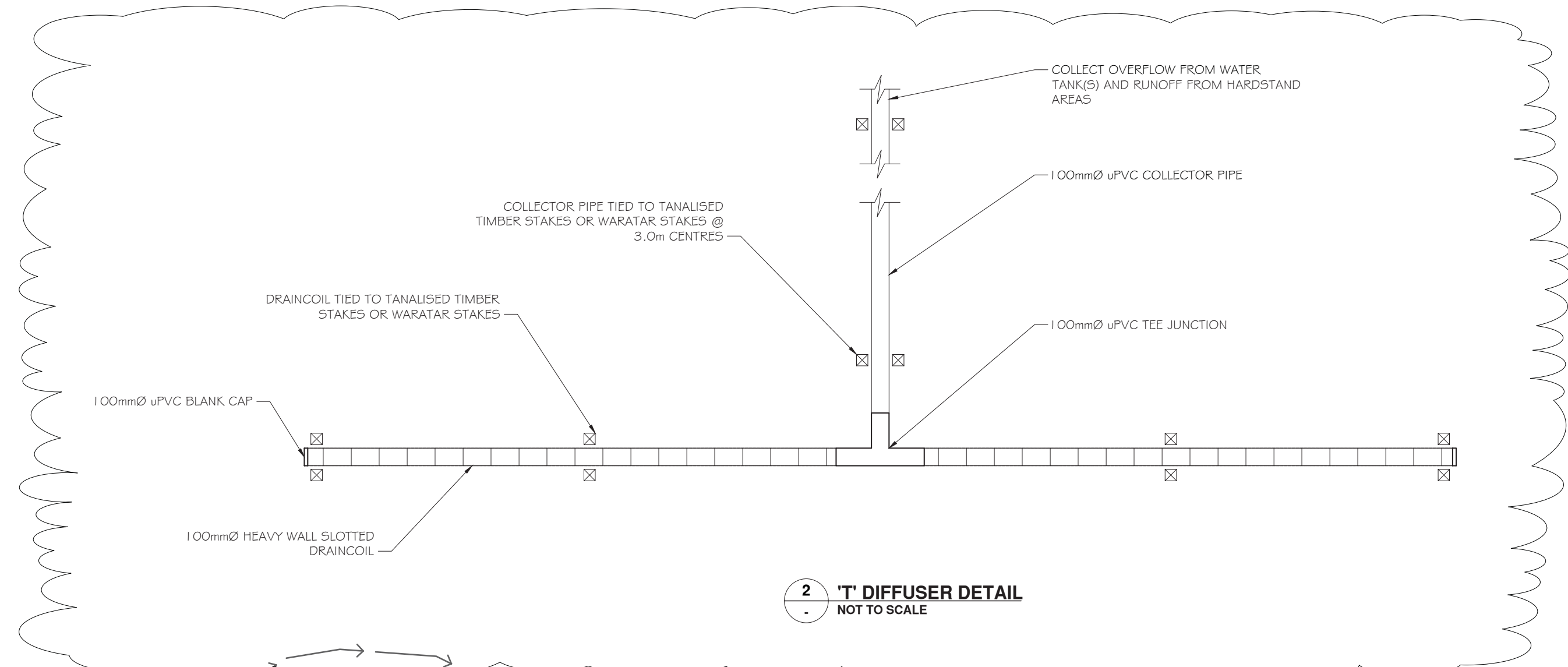




WIND ZONE: H
REGION A
LEE ZONE NO
GROUND ROUGHNESS OPEN TERRAIN
SITE EXPOSURE EXPOSED
OUTER ZONE
GRADIENT GENTLE
TOPOGRAPHIC CLASS T1
WIND ZONE = HIGH

SITE INFORMATION:

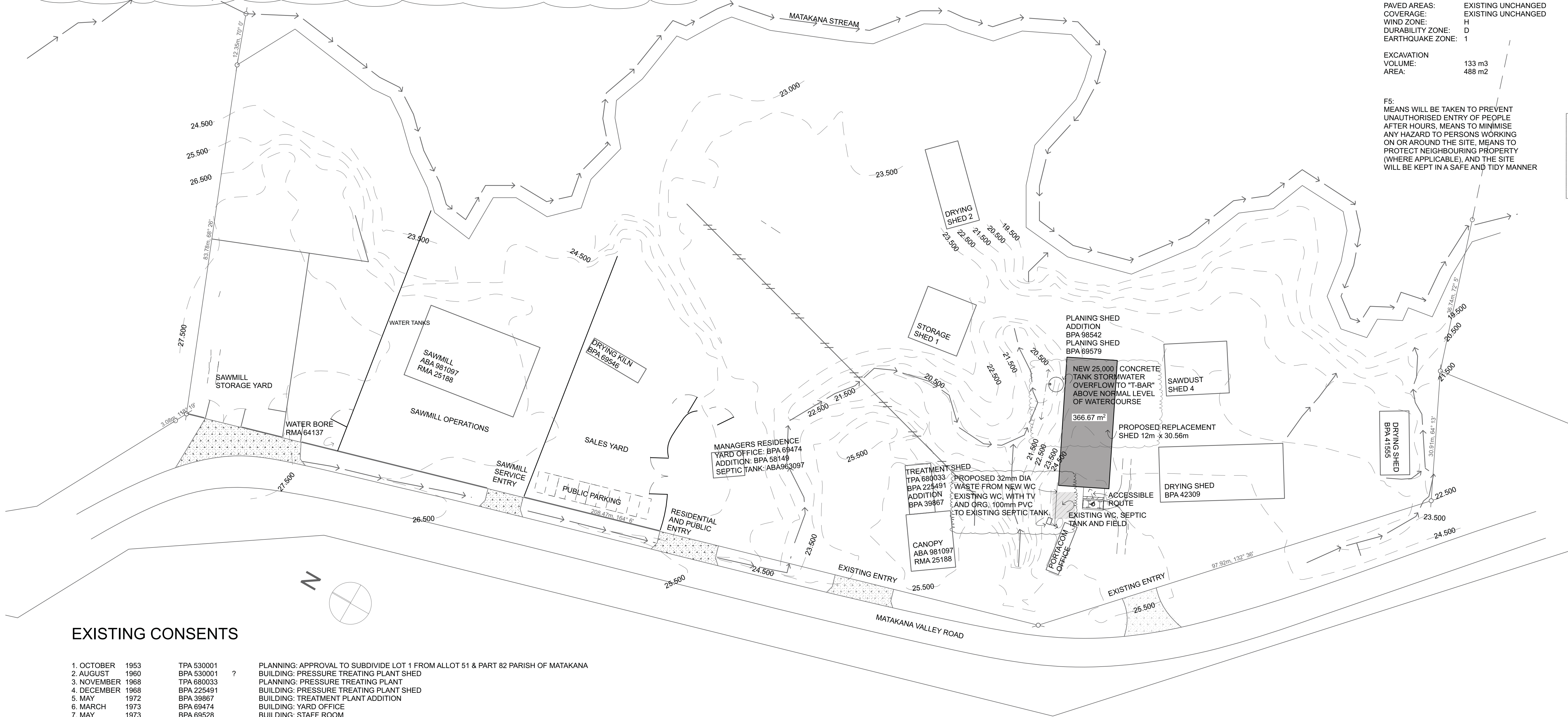
Sec 1 SO 400726,
PT ALLOTMENT LOT 51
PARISH OF KATAKANA
AUCKLAND COUNCIL
RURAL - RURAL PRODUCTION ZONE
BUILT HERITAGE AND CHARACTER:
HISTORIC OVERLAY EXTENT OF PLACE

AREA: 2.6672 Ha
BUILDING AREA: EXISTING UNCHANGED
PAVED AREAS: EXISTING UNCHANGED
COVERAGE: EXISTING UNCHANGED
WIND ZONE: H
DURABILITY ZONE: D
EARTHQUAKE ZONE: 1

EXCAVATION
VOLUME: 133 m3
AREA: 488 m2

F5:
MEANS WILL BE TAKEN TO PREVENT
UNAUTHORISED ENTRY OF PEOPLE
AFTER HOURS, MEANS TO MINIMISE
ANY HAZARD TO PERSONS WORKING
ON OR AROUND THE SITE, MEANS TO
PROTECT NEIGHBOURING PROPERTY
(WHERE APPLICABLE), AND THE SITE
WILL BE KEPT IN A SAFE AND TIDY MANNER

Our approval of these drawings
relates to our specifically designed
structural elements only
Ian Hutchinson CP Eng 63973
Ian Hutchinson Consultants Ltd
Hutchinson
CONSULTING ENGINEERS



EXISTING CONSENTS

1. OCTOBER 1953	TPA 530001	?	PLANNING: APPROVAL TO SUBDIVIDE LOT 1 FROM ALLOT 51 & PART 82 PARISH OF MATAKANA
2. AUGUST 1960	BPA 530001		BUILDING: PRESSURE TREATING PLANT SHED
3. NOVEMBER 1968	TPA 680033		PLANNING: PRESSURE TREATING PLANT
4. DECEMBER 1968	BPA 225491		BUILDING: PRESSURE TREATING PLANT SHED
5. MAY 1972	BPA 39867		BUILDING: TREATMENT PLANT ADDITION
6. MARCH 1973	BPA 69474		BUILDING: YARD OFFICE
7. MAY 1973	BPA 69528		BUILDING: STAFF ROOM
8. MAY 1973	BPA 69546		BUILDING: DRYING KILN
9. JUNE 1973	BPA 69579		BUILDING: PLANER SHED (BURNT DOWN IN 2017)
10. JANUARY 1974	BPA 58149		BUILDING: YARD OFFICE ADDITION
11. APRIL 1978	BPA 96561		BUILDING: BOILER (SINCE DEMOLISHED)
12. MARCH 1982	BPA 98542		BUILDING: PLANER SHED ADDITION (BURNT DOWN IN 2017)
13. APRIL 1984	BPA 42309		BUILDING: DRYING SHED
14. NOVEMBER 1996	ABA 963097		BUILDING: SEPTIC TANK FOR MANAGERS RESIDENCE
15. NOVEMBER 1996	RMA 22394		PLANNING: SEPTIC TANK FOR MANAGERS RESIDENCE
16. MAY 1998	ABA 981097		BUILDING: ROOF OVER SAWMILL & TREATMENT SHED CANOPY
17. OCTOBER 1998	RMA 25188		BUILDING: ROOF OVER SAWMILL & TREATMENT SHED CANOPY
18. FEB 2015	RMA 64137		PLANNING: COMMERCIAL WATER BORE

PROPOSED SITE PLAN
THREE BLOKES LTD
REPLACEMENT PLANING SHED
362 MATAKANA VALLEY ROAD
MATAKANA

SHEET TITLE:	PROPOSED SITE PLAN
REVISION #:	A: SKETCH DESIGN
B: BUILDING DESIGN	C: BC ENG REVISIONS
D: BC REVISIONS	ISSUED: 13/02/18
PROJECT #:	14025
SHEET	302

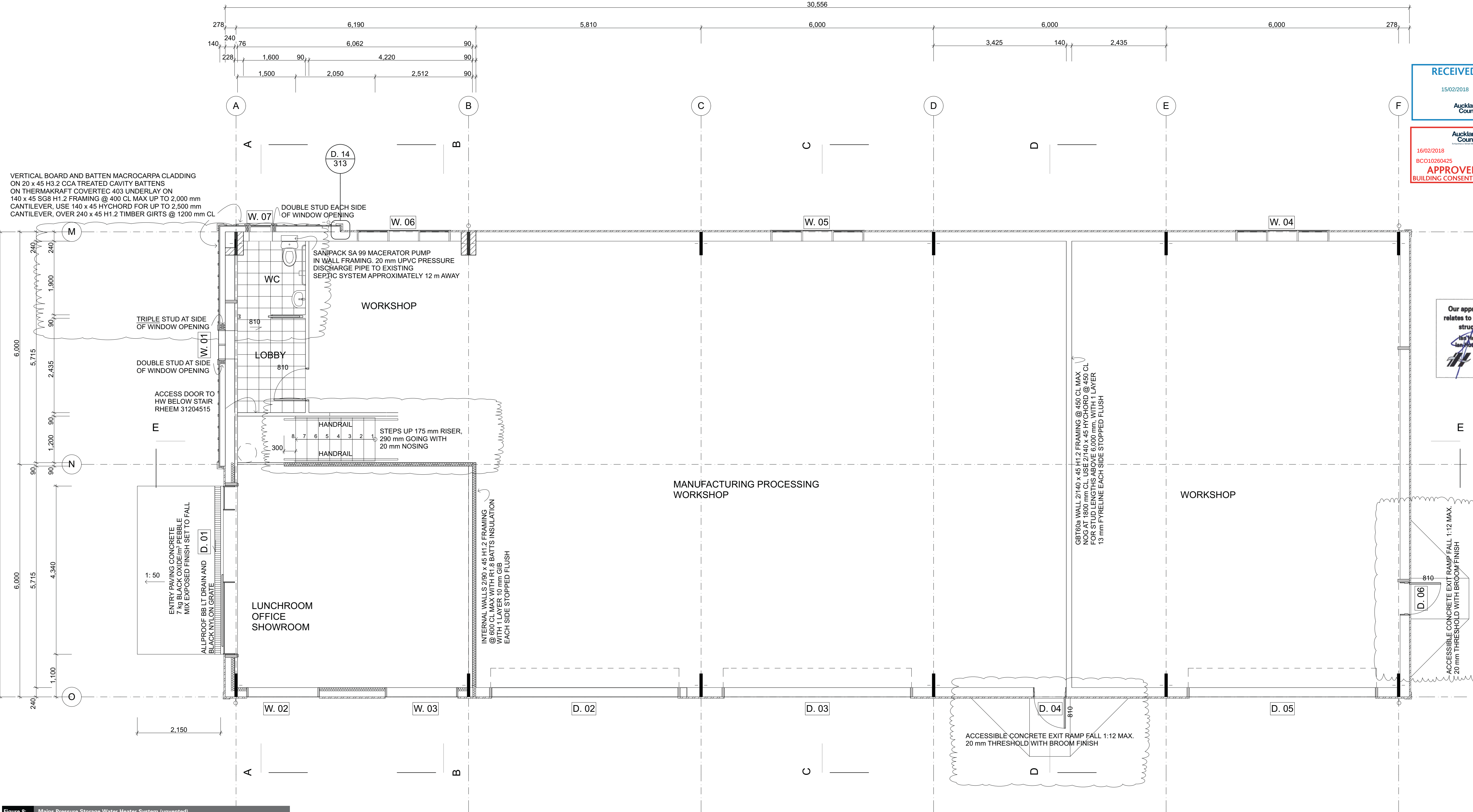
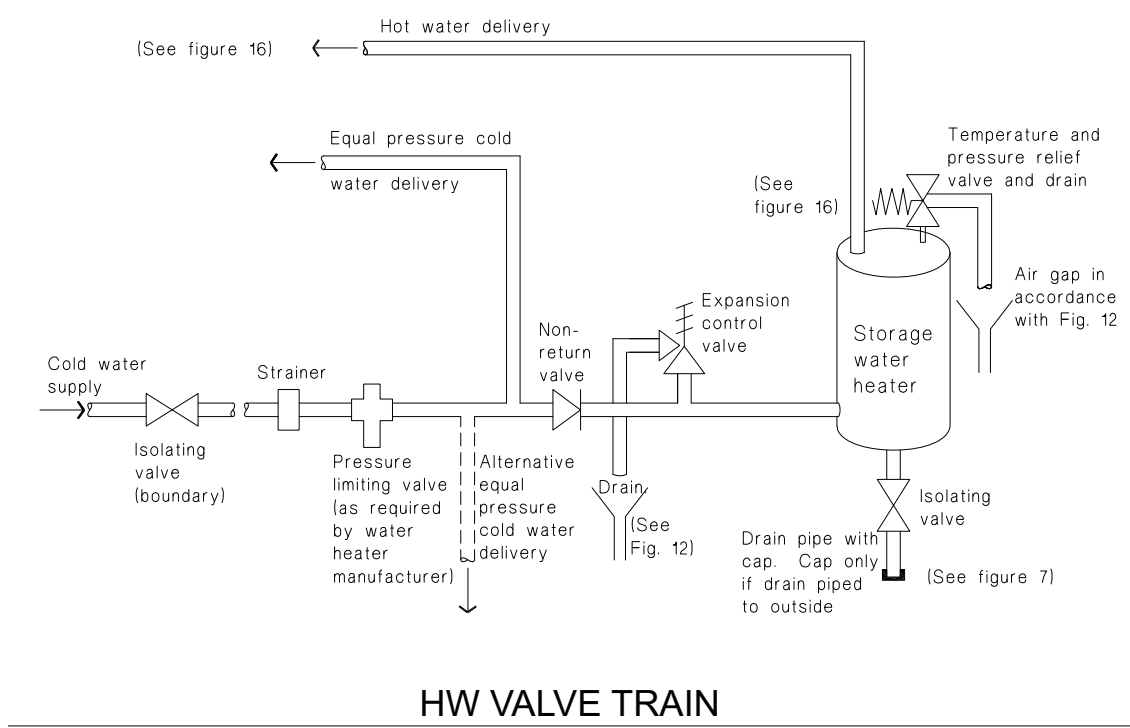


Figure 8: Mains Pressure Storage Water Heater System (unvented)
Paragraphs 6.1.2 and 6.2.1 b)



SHOWROOM H1 CALCULATION:

NORTH WALLS:	20.24 m2	0.00 m2
NORTH WINDOWS:		
SOUTH WALLS:	20.24 m2	3.14 m2
SOUTH WINDOWS:		
EAST WALLS:	20.24 m2	0.00 m2
EAST WINDOWS:		
WEST WALLS:	20.24 m2	6.11 m2
WEST WINDOWS:		
TOTAL WALLS:	80.98 m2	9.25 m2 = 11% OK < 30%
TOTAL WINDOWS:		
SEW WALLS:	60.73 m2	9.25 m2 = 15% OK < 30%
SEW WINDOWS:		
> SCHEDULE METHOD OK		
NOTE: ALL RECESSED DOWNLIGHTS TO BE "CA" RATED		
INSULATED SLAB AREA: 37.4 m2		
INSULATED SLAB PERIMETER: 24.46 m		
RATIO: 1.5		

INSULATION:	REQUIRED	PROVIDED
WALLS	R1.9	R1.9
FLOORS	R1.3	R1.3
CEILING	R2.9	R2.9
GLAZING	R0.26	R0.15
NOT SCHEDULE > USE CALCULATION		

HL-REF = $\frac{A_{ROOF} + A_{TOWALL} + A_{FLOOR} + A_{SOWALL}}{2.9 + 1.9 + 1.3 + 0.26} = \frac{37.40 + 56.69 + 37.40 + 24.29}{2.9 + 1.9 + 1.3 + 0.26} = 164.93$

HL-PROP = $\frac{A_{ROOF} + A_{WALL} + A_{FLOOR} + A_{GLAZING}}{R_{ROOF} + R_{WALL} + R_{FLOOR} + R_{GLAZING}} = \frac{37.40 + 71.73 + 37.40 + 9.25}{2.9 + 1.9 + 1.3 + 0.15} = 141.09$

HL-PROP < HL-REF OK

WATERPROOFING:

BATHROOMS, SELECTED CERAMIC TILES, WITH 100 mm SKIRTING TILE, SLIP RESISTANCE R 0.4 MINIMUM ON MAPEIGUM WPS WATERPROOFING MEMBRANE ON 10 mm GIB AQUALINE. TAKE WATERPROOFING BEHIND TILES 150 mm ABOVE VANITY. 10 mm GIB AQUALINE WALLS & CEILINGS TO WET AREAS



Our approval of these drawings relates to our specifically designed structural elements only

16/02/2018
BCO10260425
APPROVED
BUILDING CONSENT PLANS

Hutchinson
CONSULTING ENGINEERS

202 CAMES ROAD, R.D. 5 WELLSFORD 0875
NEW ZEALAND

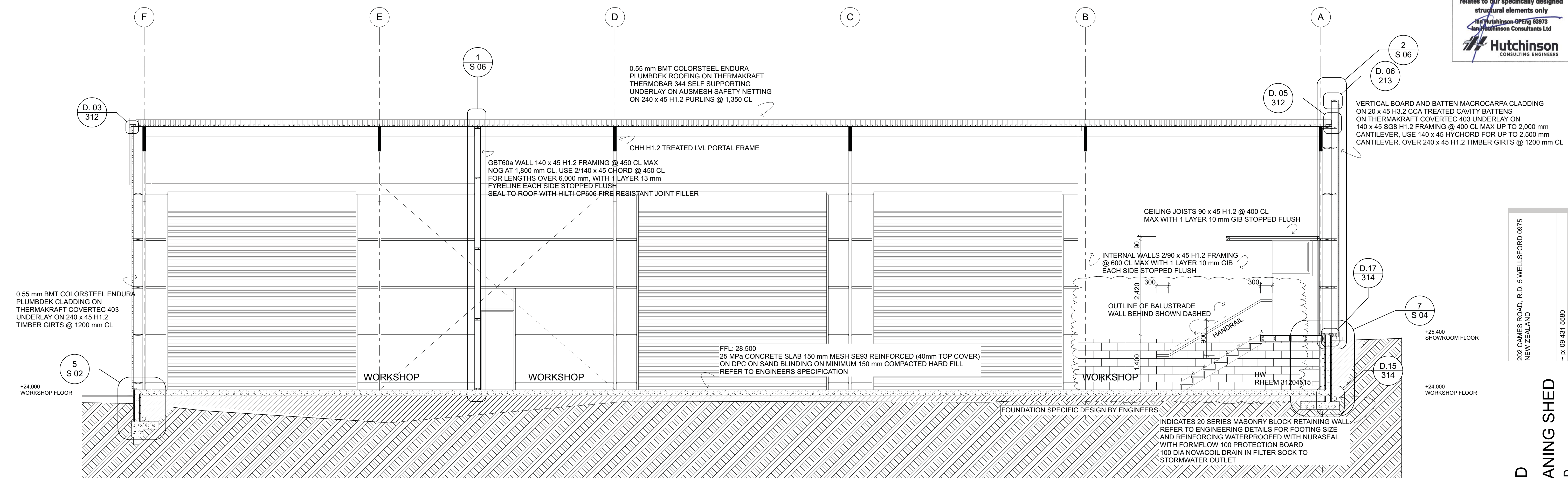
p: 09 431 5580
e: collin@campbell-registered-architects.co.nz
w: www.campbell-registered-architects.co.nz

FLOOR PLAN

THREE BLOKES LTD
REPLACEMENT PLANING SHED
362 MATAKANA VALLEY ROAD
MATAKANA

REVISION #:	A: SKETCH DESIGN
SHEET	B: BUILDING CONSENT
	C: BC ENG REVISIONS
	D: BC REVISIONS
ISSUED:	13/02/18
PROJECT #:	14025

303



1:50

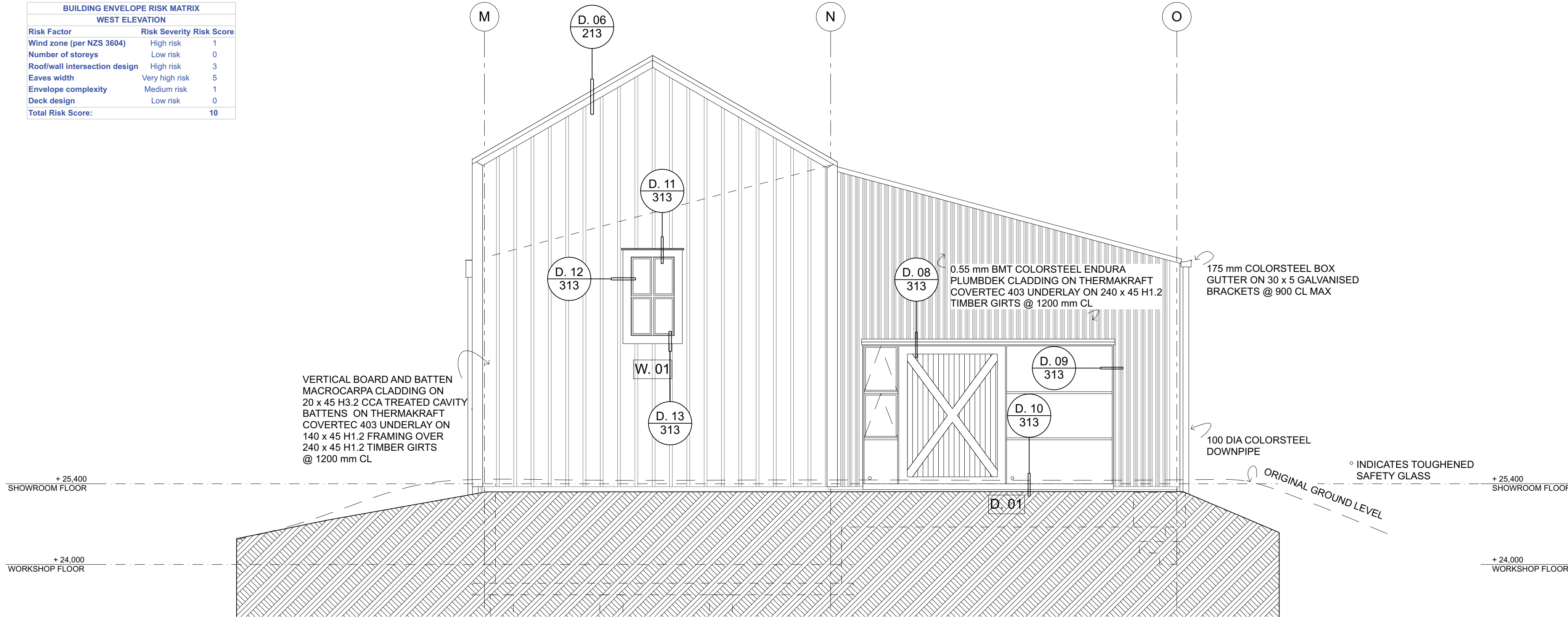
SHEET TITLE:
 SHEET
 307
 REVISION #:
 A: SKETCH DESIGN
 B: BUILDING CODE
 C: BC ENG REVIEW
 D: BC REVISION
 ISSUED:
 PROJECT #:

202 CAMES ROAD, R.D. 5 WELLSFORD 0975

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~ w: www.campbell-registered-architects.co.nz

THREE BLOKES LTD
REPLACEMENT PLANING SHED
362 MATAKANA VALLEY ROAD
MATAKANA

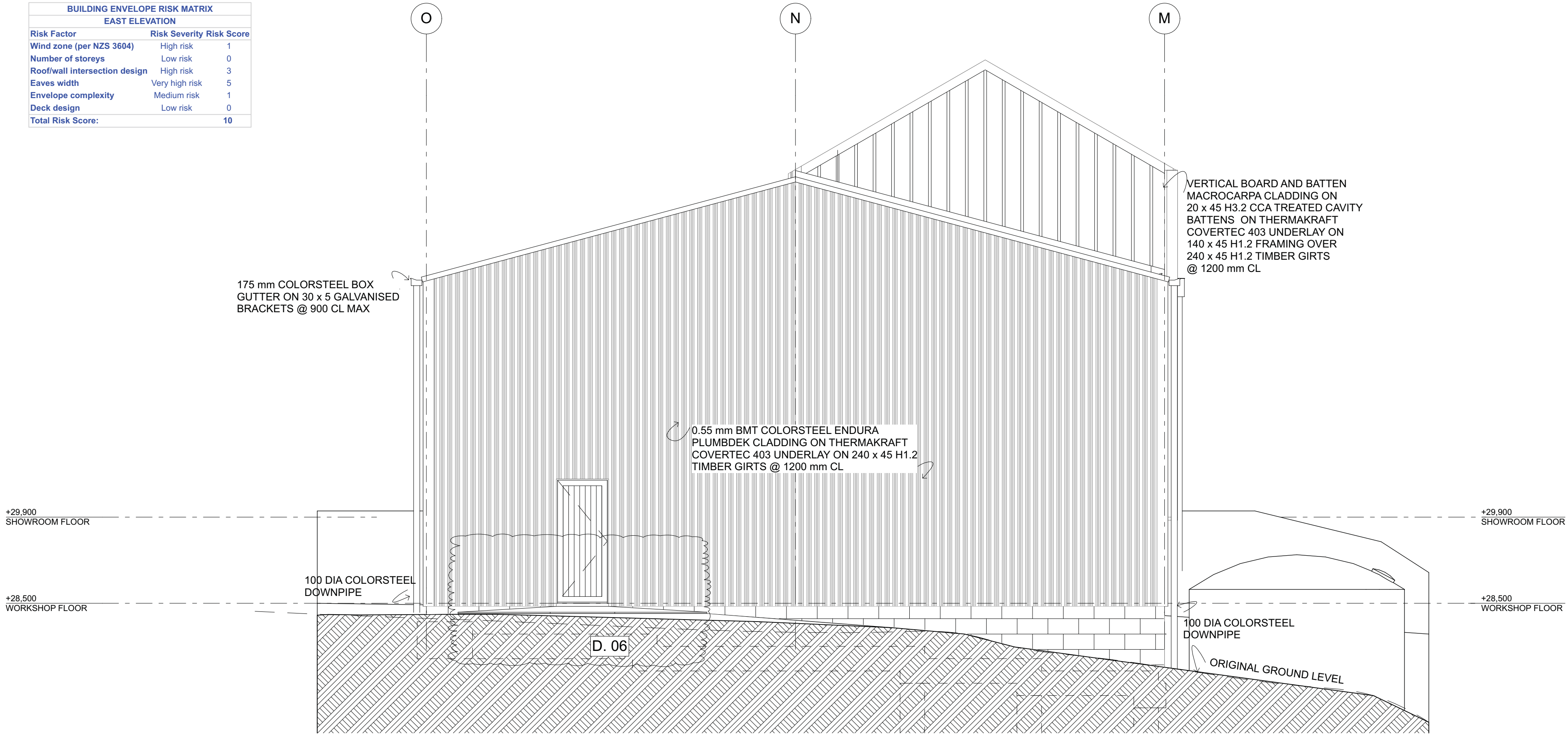
BUILDING ENVELOPE RISK MATRIX		
WEST ELEVATION		
Risk Factor	Risk Severity	Risk Score
Wind zone (per NZS 3604)	High risk	1
Number of storeys	Low risk	0
Roof/wall intersection design	High risk	3
Eaves width	Very high risk	5
Envelope complexity	Medium risk	1
Deck design	Low risk	0
Total Risk Score:		10



WEST ELEVATION

1:50

BUILDING ENVELOPE RISK MATRIX		
EAST ELEVATION		
Risk Factor	Risk Severity	Risk Score
Wind zone (per NZS 3604)	High risk	1
Number of storeys	Low risk	0
Roof/wall intersection design	High risk	3
Eaves width	Very high risk	5
Envelope complexity	Medium risk	1
Deck design	Low risk	0
Total Risk Score:		10



EAST ELEVATION

1:50



202 CAMER ROAD, R.D. 5 WELLSFORD 0875
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ELEVATIONS

THREE BLOKES LTD
REPLACEMENT PLANING SHED
362 MATAKANA VALLEY ROAD
MATAKANA

SHEET TITLE: SHEET

REVISION #:
A: SKETCH DESIGN
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ISSUED: 13/02/18
PROJECT #: 14025

309

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