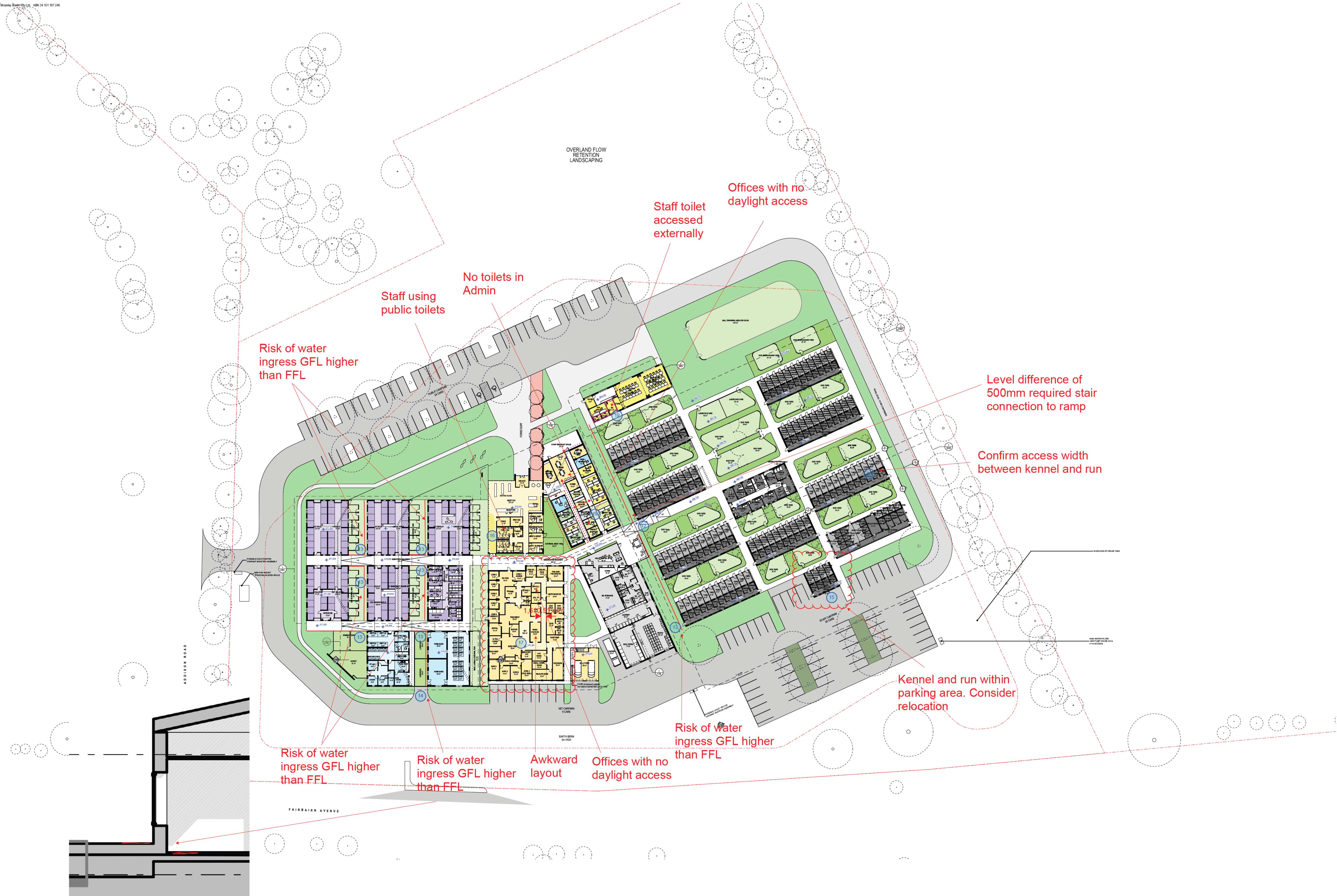






1

GROUND - 1:100
1:100

ORIGINAL SHEET SIZE A1
Meters @ 1:100

FOR INFORMATION

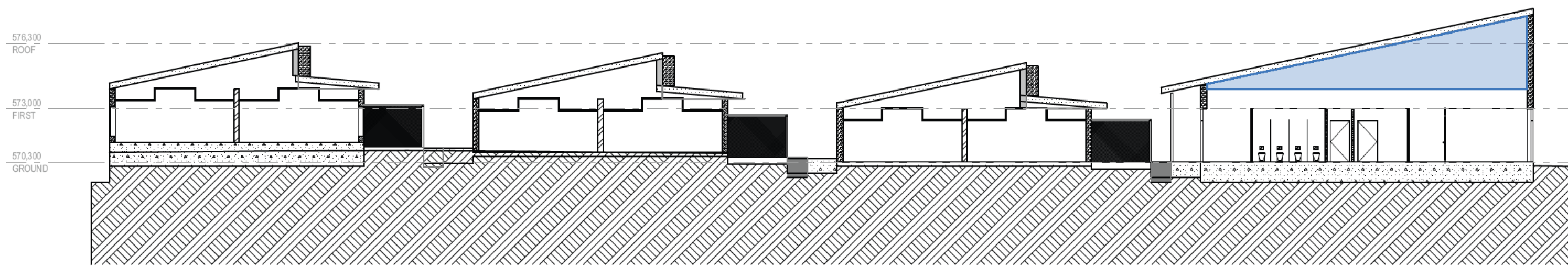
RSPCA Pialligo Facility
ADMINISTRATION - FLOOR PLAN - GROUND LEVEL - SHEET 01 PSP - RPH - AR - 1101

REV. 01



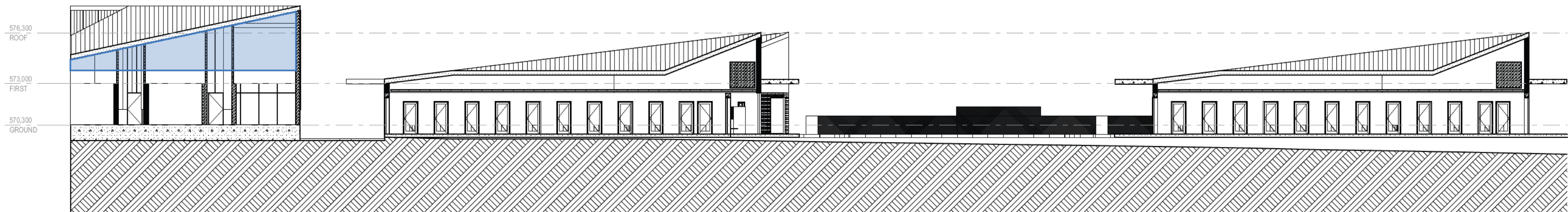
FOR INFORMATION

RSPCA Pialligo Facility
ADMINISTRATION - FLOOR PLAN - GROUND LEVEL - SHEET 02 PSP - RPH - AR - 1102



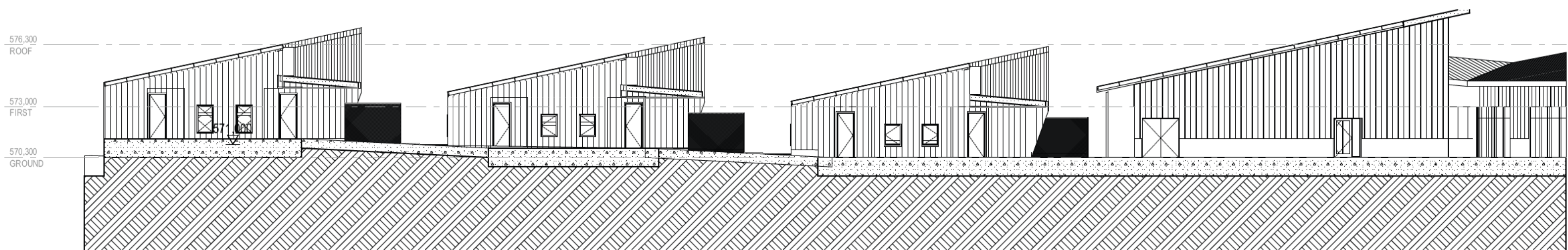
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CATTERIES & ADOPTION SECTION
1:200



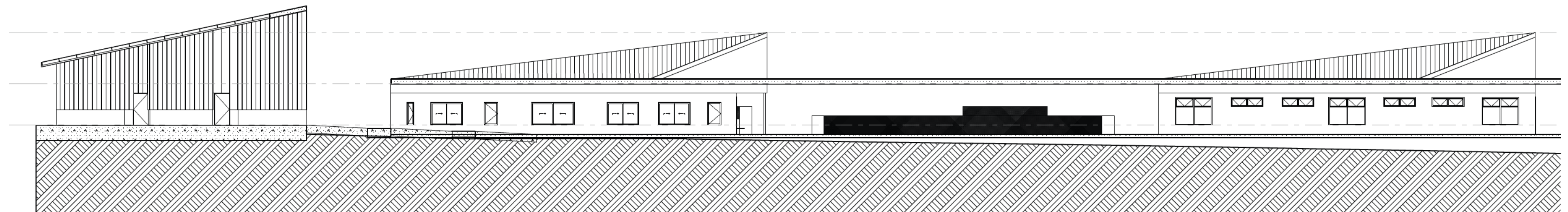
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DOG KENNELS & ADMIN SECTION
1:200



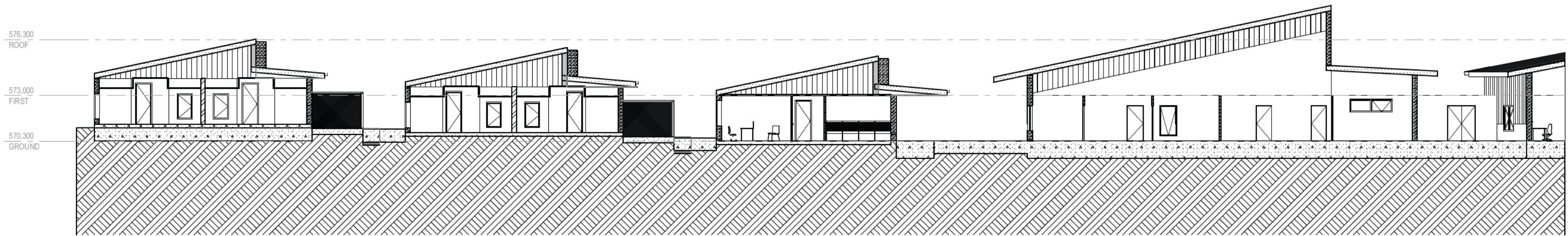
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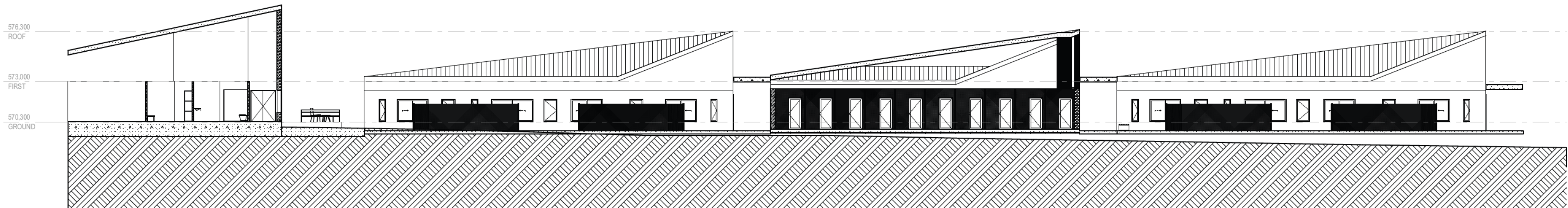


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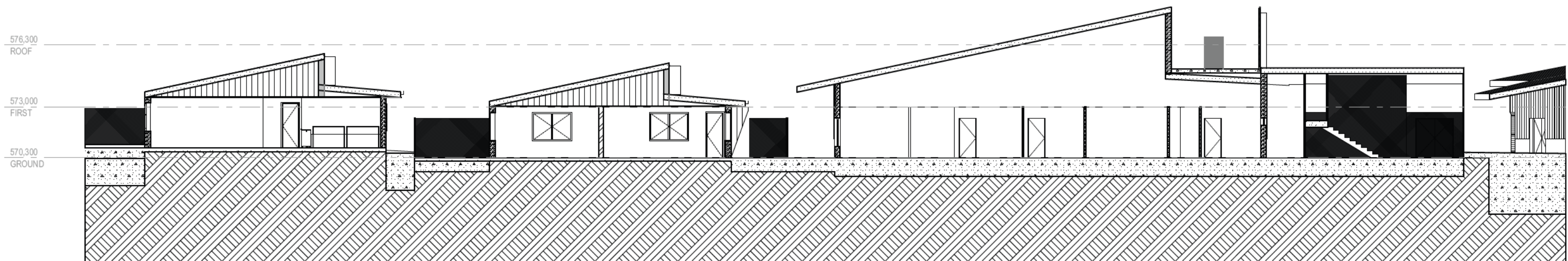
DOG KENNELS & ADMIN WALKWAY SECTION
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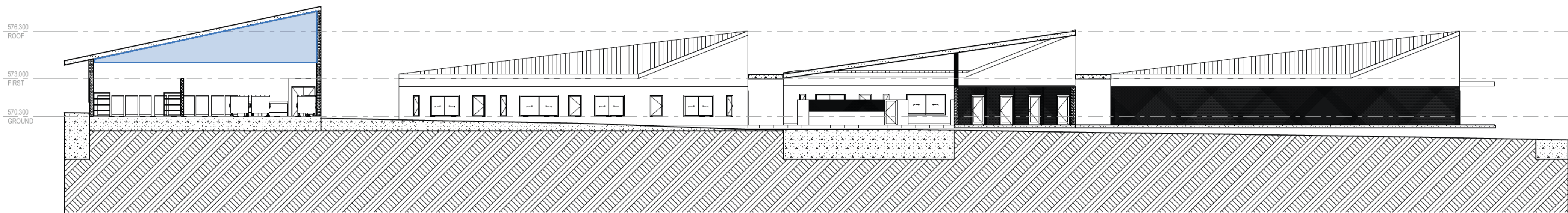
1 CATERIES & VET SECTION
1:200



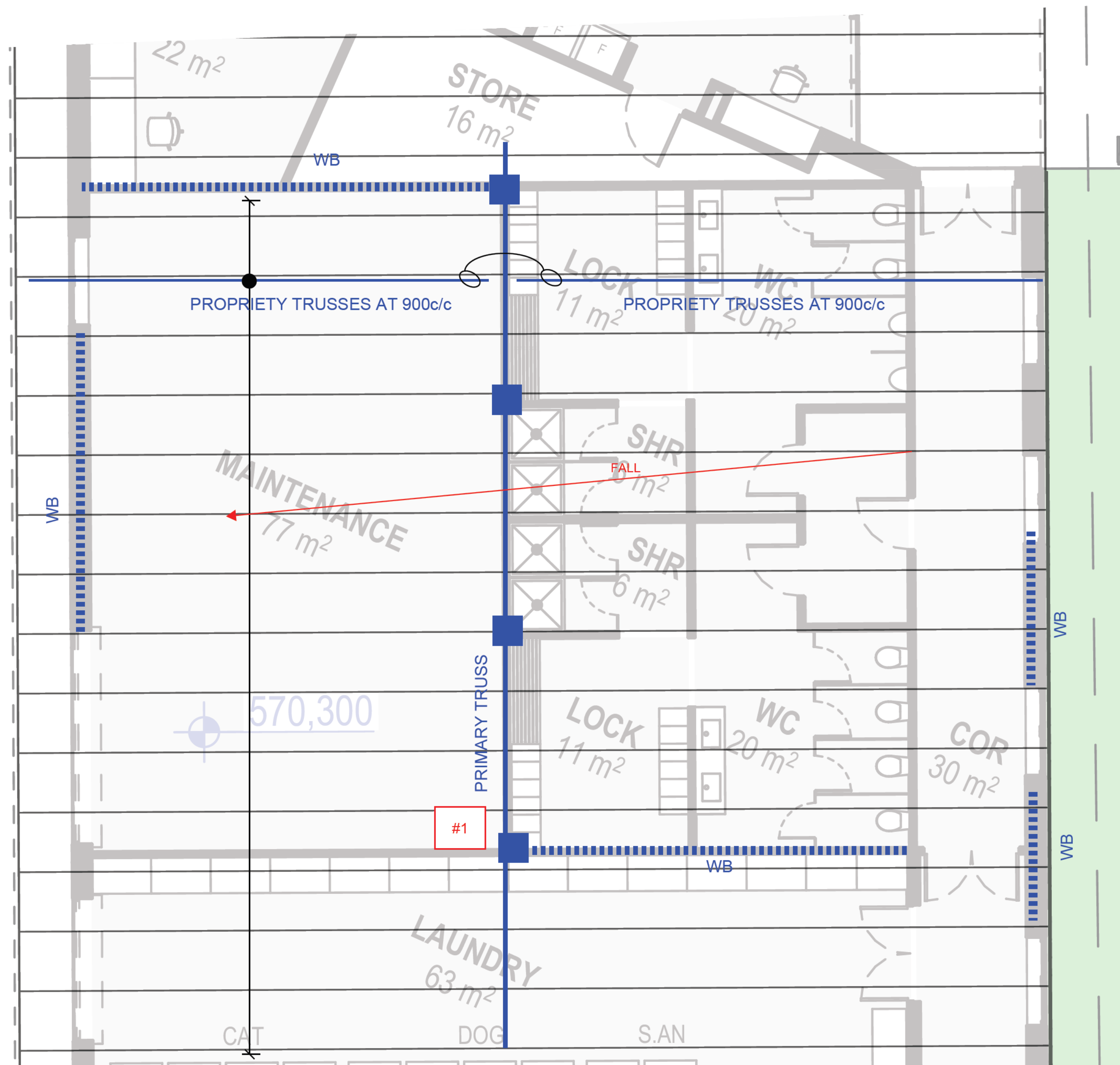
2 DOG KENNELS & SUPPORT SECTION
1:200



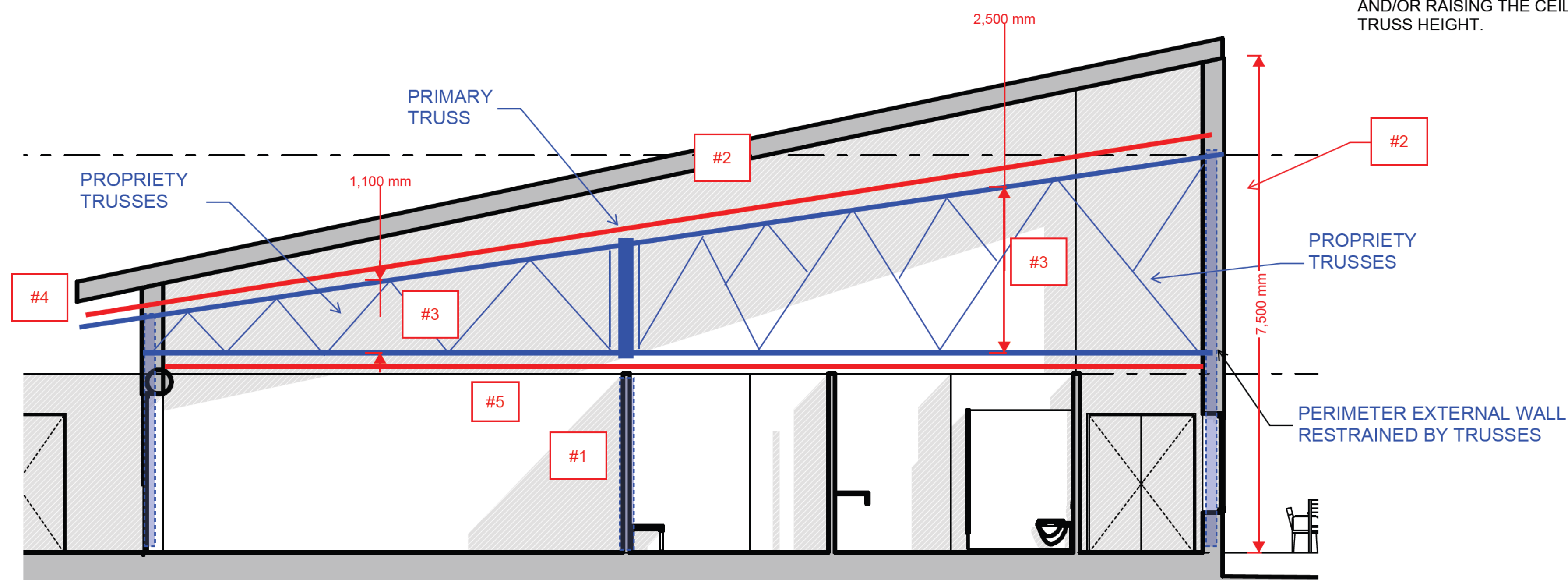
3 SMALL ANIMALS & VET SECTION
1:200



4 DOGS WHELPING & SUPPORT
1:200



TYPICAL ADMIN PLAN



TYPICAL ADMIN SECTION

NOTES:

a) ARCHITECTURAL BACKGROUNDS BASED ON g.m.b
ARCHITECTS DATED THE 2023-12-21.

b) STRUCTURAL SET OF DRAWINGS BY ACOR DATED THE 13.10.2023 BASED ON DIFFERENT ARCHITECTURAL INFORMATION THAN a).

c) ACOR STRUCTURAL ARRANGEMENT COMPRISES OF :

c1) FOUNDATIONS AND GROUND SLAB:
RAFT SLABS WITH INTERNAL/PERIMETER BEAMS AT 4m
c/c TO AS2870 FOR AN ARTICULATED MASONRY VENEER
CONSTRUCTION ON CLASS SITE M.
GHD COMMENTS:
PROPOSED SYSTEM IS REASONABLE FOR THE LIMITED
GEOTECHNICAL INFORMATION AVAILABLE. A WAFFLE
SLAB IS A POTENTIAL ALTERNATIVE.

c2) ROOF STRUCTURE:
STEEL RAFTERS AND PURLINS .
GHD COMMENTS:
THE PROPOSED ROOF STRUCTURE REQUIRES
REFRAMING FOR THE NEW ARCHITECTURAL LAYOUT AS
THE COLUMNS LOCATION ARE NOT COORDINATED WITH
THE ARCHITECTURE (CLASHES).
DUE TO HIGH CEILINGS, A TRUSS ROOF STRUCTURE IS
RECOMMENDED, THIS IS A MORE EFFICIENT
STRUCTURAL SYSTEM AS IT CAN ACHIEVE LONGER
SPANS, SUPPORTS BOTH THE CEILING AND THE ROOF,
AND PROVIDES RESTRAIN TO THE PERIMETER WALL.

c3) WALLS:
BRACED WALLS FOR LATERAL ACTIONS
NON-LOAD BEARING WALLS TO BE STUD WALLS
EXTERNAL WALLS NOT COORDINATED YET.
GHD COMMENTS:
INTERNAL AND EXTERNAL STUD WALLS ARE OK IF THEY
CAN COMPLY WITH THE PERFORMANCE REQUIREMENTS
OF THE PROJECT. THE PROPOSED TRUSS OPTION
PROVIDES LATERAL RESTRAIN TO THESE WALLS.

PROPOSED LAYOUT COMMENTS:

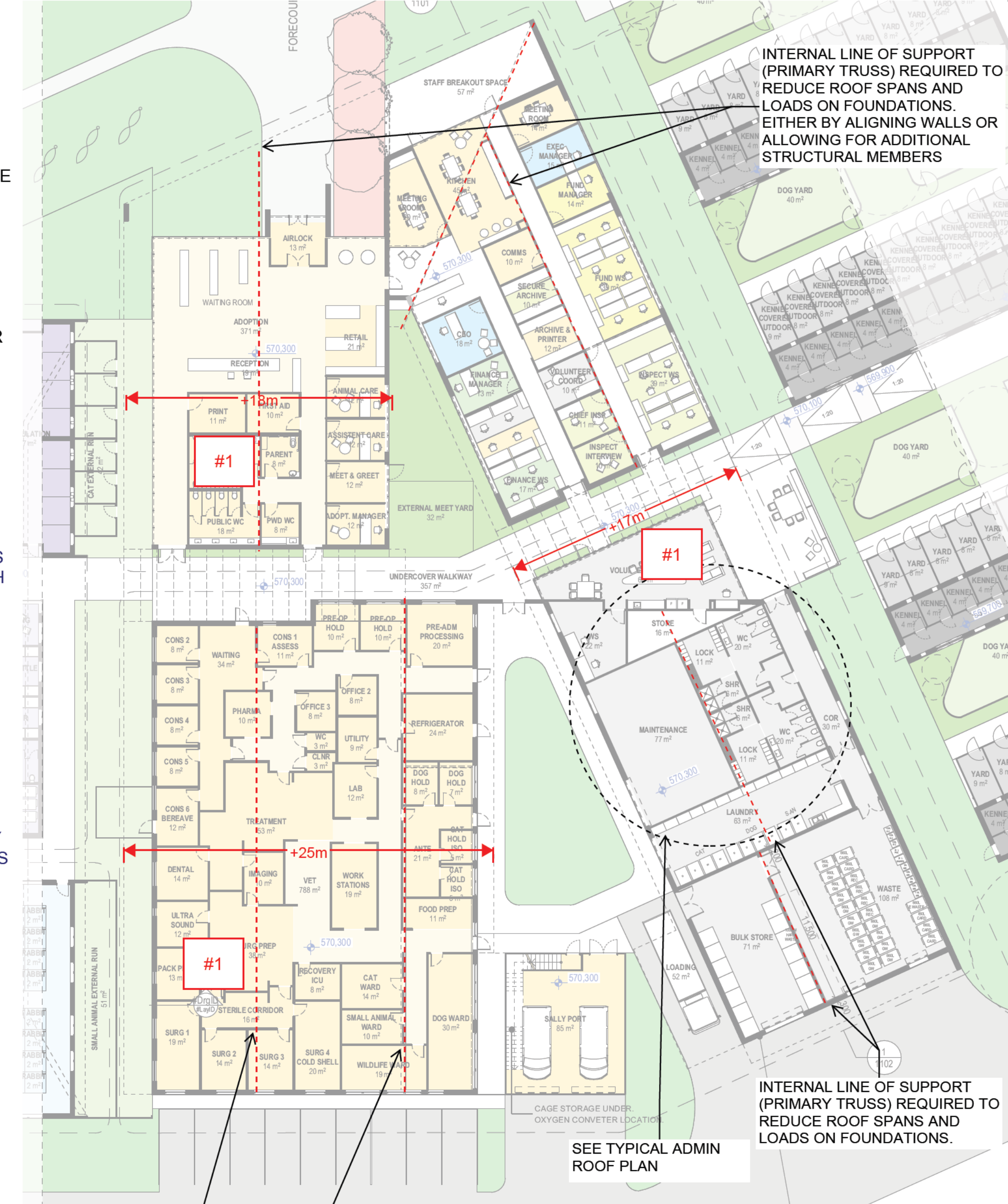
#1: SPANS SHOULD BE REDUCED BY ADJUSTING LOCATION OF INTERNAL WALLS TO SUIT STRUCTURAL ARRANGEMENT.

#2: DUE TO PROPOSED ROOF FALLS, THE WEST EXTERNAL WALLS ARE OVER 6m HIGH. REDUCING THIS BY EITHER ADDING CROSS-FALLS AND/OR OVERALL ROOF PITCH AND/OR BUILDING HEIGHT WILL REDUCE OVERALL EXTERNAL WALL AREA AND FACADE COSTS.

#3: LARGE CEILING SPACE FAVOURS A TRUSS SYSTEM FOR THE ROOF STRUCTURE. SERVICES CAN BE ACCOMMODATE IN THE STRUCTURAL ZONE. CEILING CAN BE SUPPORTED FROM THE TRUSS BOTTOM CHORD.

#4: ADDITIONAL TO #2, THE ROOF GUTTER ON THE EAST SIDE WILL BE COLLECTING LARGE VOLUMES OF WATER WITH THE PROPOSED FALLS.

#5: ADDITIONAL TO ITEMS #2 AND #4, THE TRUSSES WILL BENEFIT FOR EITHER CHANGING THE ROOF PITCH AND/OR RAISING THE CEILING HEIGHT TO REDUCE THE TRUSS HEIGHT.



ADMIN OVERALL PLAN

INTERNAL LINE OF SUPPORT
(PRIMARY TRUSS) REQUIRED TO
REDUCE ROOF SPANS AND
LOADS ON FOUNDATIONS.
EITHER BY ALIGNING WALLS OR
ALLOWING FOR ADDITIONAL
STRUCTURAL MEMBERS

INTERNAL LINE OF
SUPPORT FOR TRUSSES

INTERNAL LINE OF SUPPORT
(PRIMARY TRUSS) REQUIRED TO
REDUCE ROOF SPANS AND
LOADS ON FOUNDATIONS.

SEE TYPICAL
ROOF PLAN

PRELIMINARY

		Personal information	
P01	comments to PSP documentation		
rev	description	approved	date

MAJOR PROJECTS CANBERRA

RSPCA MAJURA FACILITY

STRUCTURAL - PSP REVIEW

ADMIN BUILDINGS



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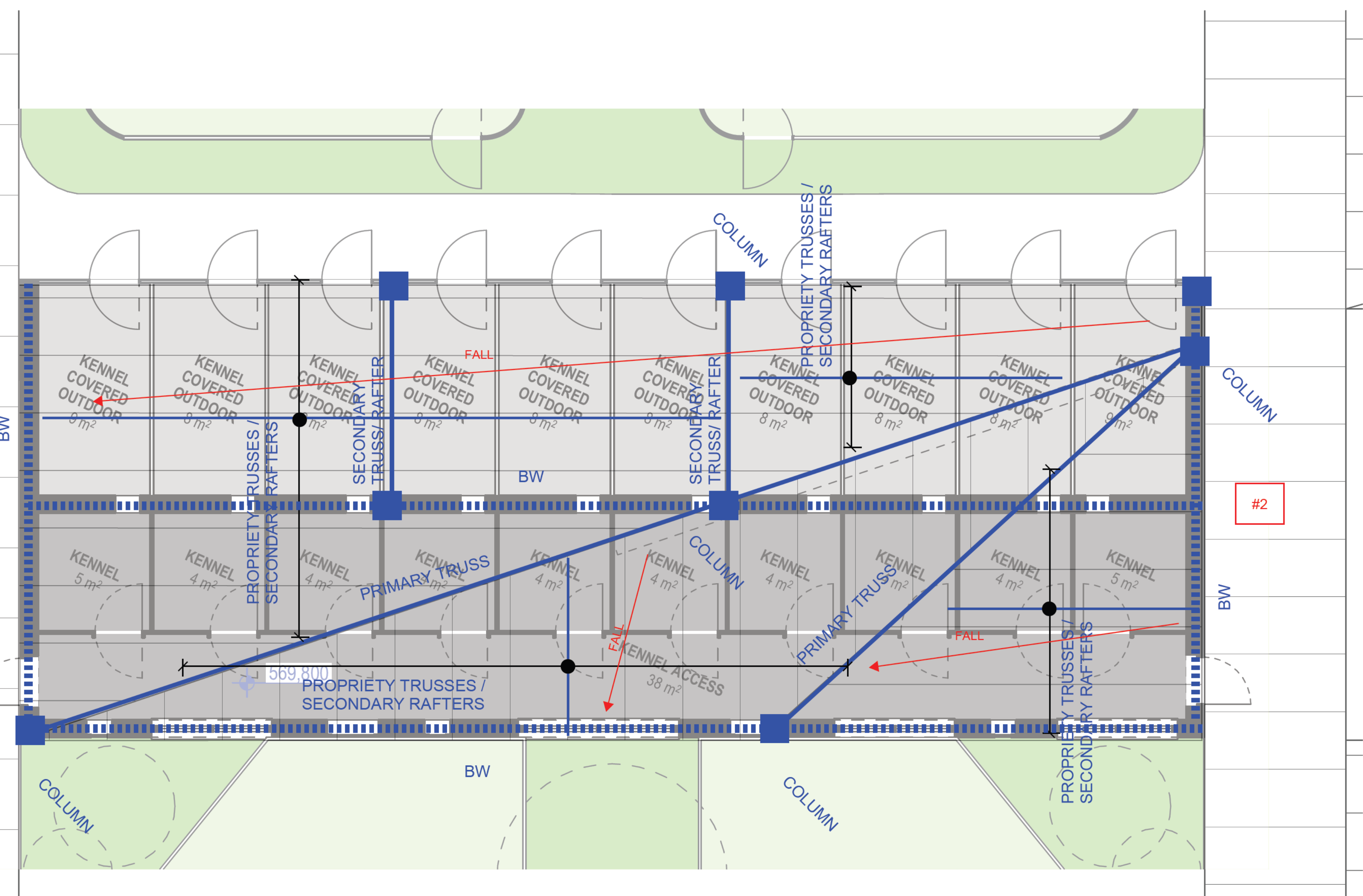
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scale	project no.
1:50 for A1	12631998

sketch no.
12631998-GHD-SK-ST-0001

rev no.
P01



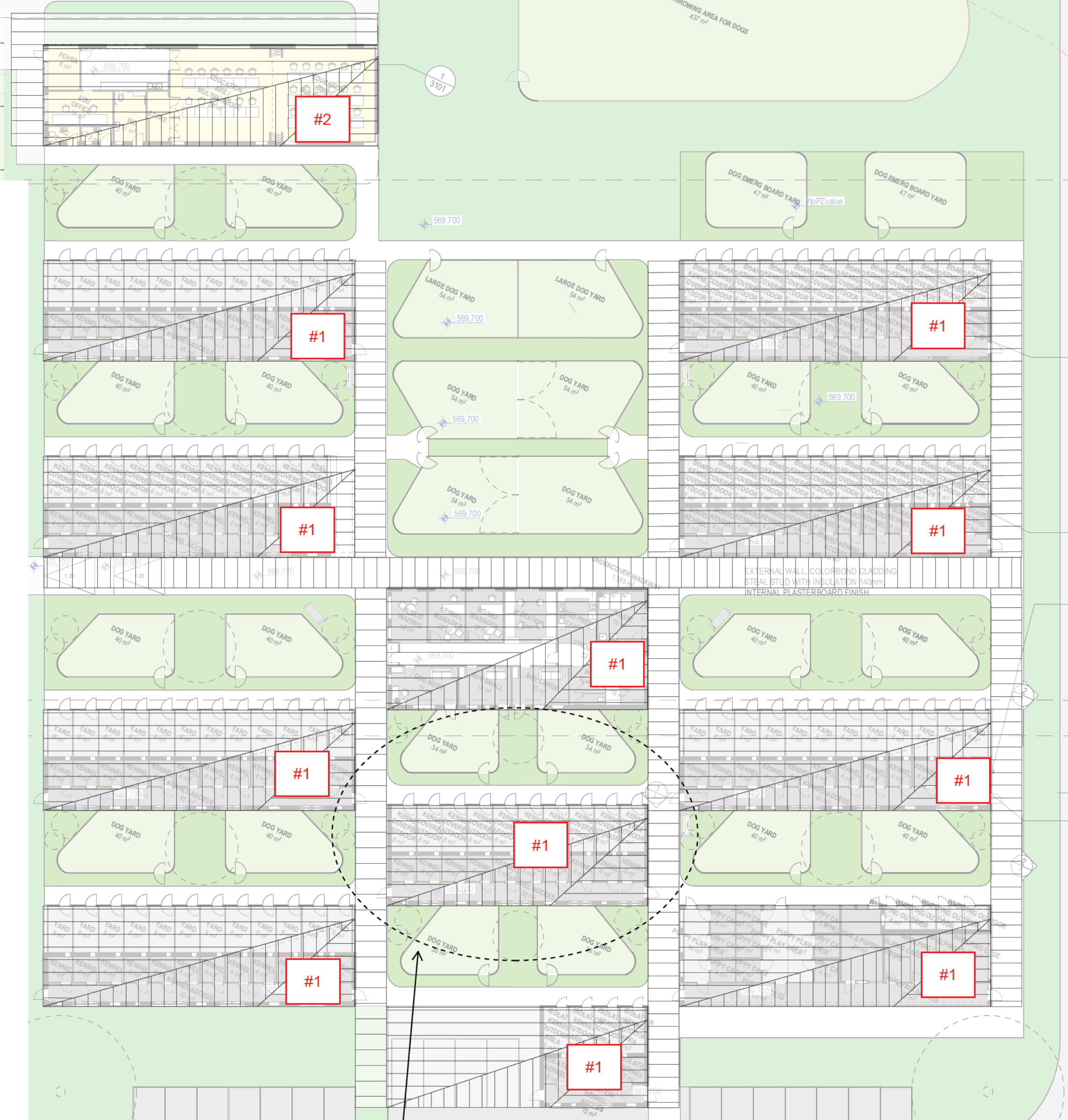
TYPICAL DOG KENNEL PLAN

NOTES:

- a) ARCHITECTURAL BACKGROUNDS BASED ON g.m.b ARCHITECTS DATED THE 2023-12-21.
- b) STRUCTURAL SET OF DRAWINGS BY ACOR DATED THE 13.10.2023 BASED ON DIFFERENT ARCHITECTURAL INFORMATION THAN a).
- c) ACOR STRUCTURAL ARRANGEMENT COMPRISES OF :
- c1) FOUNDATIONS AND GROUND SLAB:
 RAFT SLABS WITH INTERNAL/PERIMETER BEAMS AT 4m c/c TO AS2870 FOR AN ARTICULATED MASONRY VENEER CONSTRUCTION ON CLASS SITE M.
 GHD COMMENTS:
 PROPOSED SYSTEM IS REASONABLE FOR THE LIMITED GEOTECHNICAL INFORMATION AVAILABLE. A WAFFLE SLAB IS A POTENTIAL ALTERNATIVE. ADDITIONALLY, THE PROPOSED SOLUTION DOES NOT CONSIDER STEPS TO EXTERNAL AREAS THAT MIGHT REQUIRE ADDITIONAL GROUND BEAM /FOOTING DEPTH TO ACT AS A RETAINING WALL
- c2) ROOF STRUCTURE:
 STEEL RAFTERS AND PURLINS .
 GHD COMMENTS:
 THE PROPOSED ROOF STRUCTURE REQUIRES REFRAMING FOR THE NEW ARCHITECTURAL LAYOUT AS THE ROOF RAFTERS DO NOT TO SUIT THE ARCHITECTURAL INTENT.
 DUE TO HIGH CEILINGS AND COMPLEX ARRANGEMENT, A MIX OF TRUSSES AND RAFTERS IS RECOMMENDED FOR THE ROOF STRUCTURE. THE TRUSSES WILL PROVIDE RESTRAIN TO THE PERIMETER WALL.
 RAFTERS CAN BE USED ON AREAS WITH LOWER OR NO CEILING.
- c3) WALLS:
 BRACED WALLS FOR LATERAL ACTIONS
 NON-LOAD BEARING WALLS TO BE STUD WALLS
 EXTERNAL WALLS NOT COORDINATED YET.
 GHD COMMENTS:
 INTERNAL STUD WALLS ARE OK IF THEY CAN COMPLY WITH THE PERFORMANCE REQUIREMENTS OF THE PROJECT. THE PROPOSED TRUSS OPTION PROVIDES LATERAL RESTRAIN TO THESE WALLS.
- EXTERNAL WALLS SYSTEM IS TO BE CONFIRMED, HOWEVER A MASONRY WALL WILL PERFORMED BETTER ACOUSTICALLY THAN STUD WALLS AND WOULD BENEFIT FROM THE LATERAL RESTRAIN PROVIDED BY THE TRUSSES. REDUCING THE BUILDING ENVELOPE (HEIGHT) WILL REDUCE AND SIMPLIFY THE COST AND CONSTRUCTION OF THESE WALLS. PRECAST CONCRETE WALLS CAN ALSO BE EXPLORED AS AN ALTERNATIVE.

PROPOSED LAYOUT COMMENTS:

- #1: POTENTIAL TO SIMPLIFY ROOF STRUCTURE BY RE-ARRANGING THE ORIENTATON OF THE ROOF FALLS.
- #2: DUE TO PROPOSED ROOF FALLS, THE WEST WALLS ARE OVER 5m HIGH. REDUCING THIS BY CHANGING TO CROSS-FALLS / OVERALL ROOF PITCH WILL REDUCE OVERALL EXTERNAL WALL AREA AND FACADE COSTS.
- #3: IS NOT CLEAR IF THE INTERNAL SPACES HAVE A CEILING. A COMBINATION OF RAFTER/TRUSSES APPEARS TO BE THE OPTIMAL STRUCTURAL COMBINATION.



DOG KENNEL OVERALL PLAN

SEE TYPICAL DOG KENNEL ROOF PLAN

PRELIMINARY

rev	description	approved	date
P01	comments to PSP documentation		

MAJOR PROJECTS CANBERRA

RSPCA MAJURA FACILITY

STRUCTURAL - PSP REVIEW
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