

PARRAMATTA EELS  
KELLYVILLE PARK PNRL EELS -  
CENTRE OF EXCELLENCE &  
COMMUNITY FACILITY

SSDA Set  
Architectural Drawings  
7/04/2022



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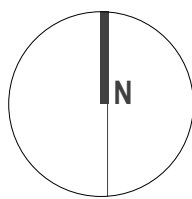




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HB ARCH ARCHITECTURE & PLANNING

- LEGEND
- SURROUNDING FOREST
  - SURROUNDING HOUSING
  - EXISTING SPORTS FIELD
  - EXISTING PARKING
  - THE HILLS CLINIC
  - STREAM
  - MAIN ACCESS POINT
  - MAIN ACCESS ROADS
  - OVERALL SITE
  - PROPOSED FOOTPRINT
  - EXISTING STRUCTURES
  - ACCESS



KELLYVILLE PARK PNRL EELS - CENTRE OF EXCELLENCE & COMMUNITY FACILITY

SURROUNDING CONTEXT

Client PARRAMATTA EELS

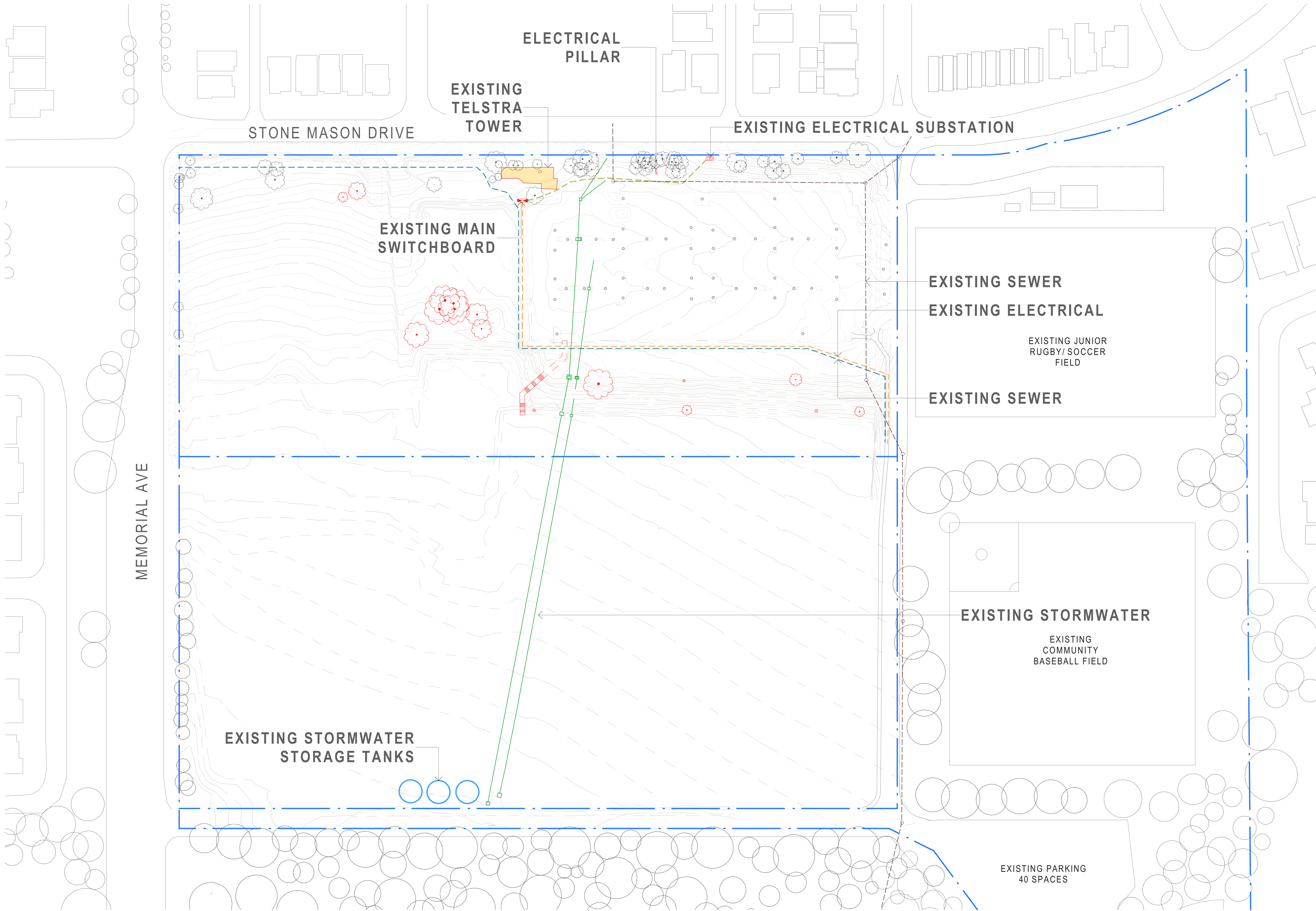
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7/04/2022 SSDA - 'C'

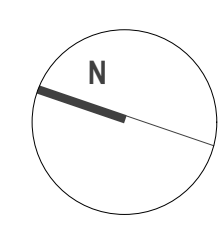
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A01

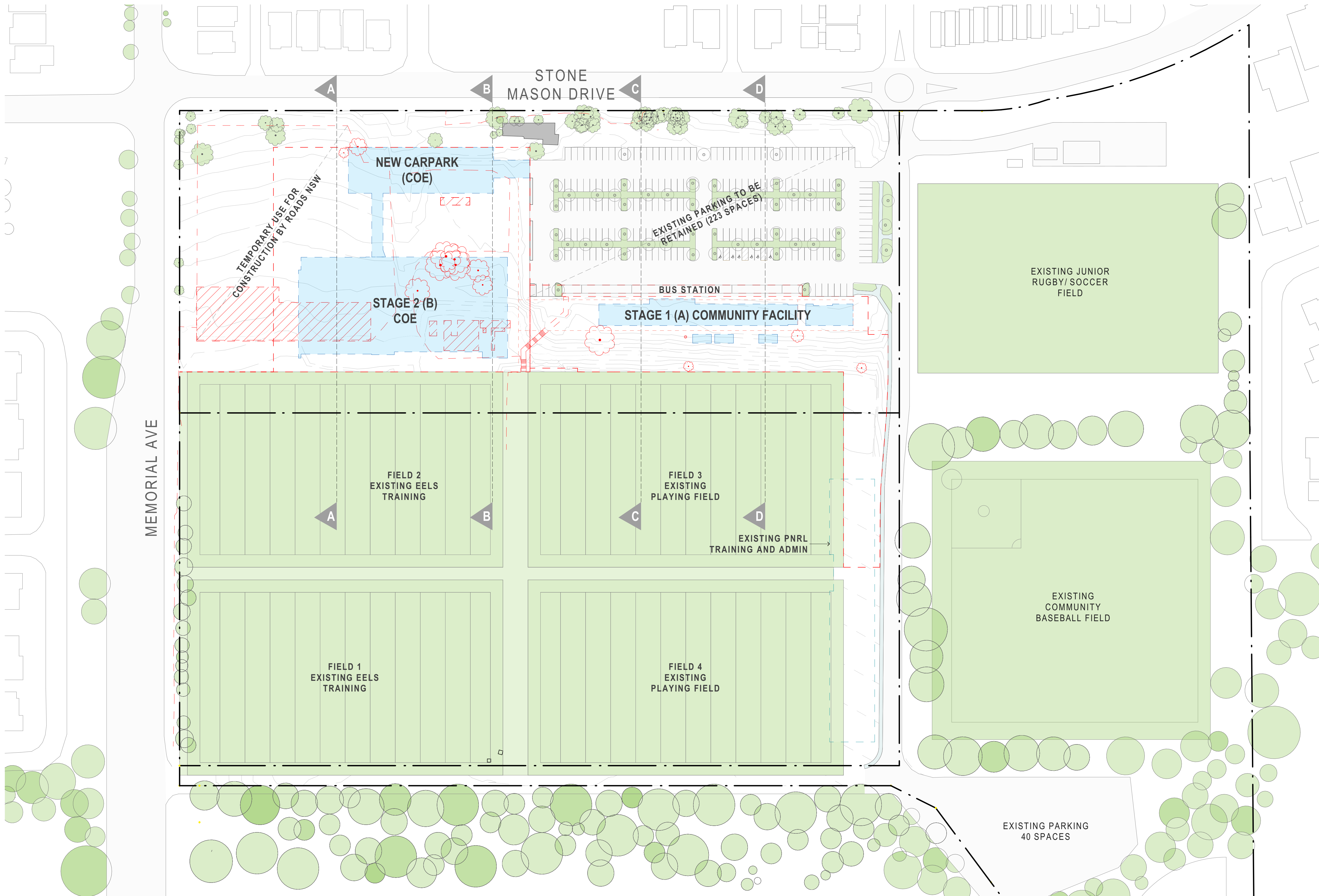




- LEGEND**
- EXISTING ELECTRICAL SUBSTATION (KIOSK) SERVING THE CAR PARK AND FIELD LIGHTING ALONG THE UNDERGROUND ROUTE SHOWN. POWER TO THE TEMPORARY FACILITIES LOCATED CENTRAL TO THE SITE ARE BEING SUPPLIED BY THIS TRANSFORMER.
  - EXISTING ELECTRICAL PILLAR
  - EXISTING SPORTS LIGHT POLE
  - EXISTING MAIN SWITCHBOARD PROPOSED TO BE UPGRADED TO SERVE THE NEW PROPOSED BUILDINGS.
  - APPROX. ROUTE OF EXISTING UNDERGROUND CABLES TO BE UPGRADED BY 760A 3 PHASE TO CATER FOR THE NEW CENTRE OF EXCELLENCE AND COMMUNITY FACILITIES.
  - EXISTING UNDERGROUND 1x 100mm ELECTRICAL CONDUIT TO BE RELOCATED OUTSIDE OF BUILDING FOOTPRINT.
  - EXISTING UNDERGROUND 2X 50mm CONDUIT TO BE RELOCATED OUTSIDE BUILDING FOOTPRINT
  - EXISTING TELSTRA TOWER
  - EXISTING STORMWATER
  - EXISTING STORMWATER TANKS (UNDERGROUND)
  - EXISTING SEWER



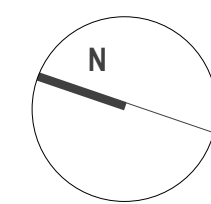




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HB ARCH ARCHITECTURE & PLANNING

- LEGEND
- EXISTING TREES AND FIELDS
  - EXISTING TREES TO BE REMOVED
  - TO BE DEMOLISHED
  - BUILDING TO BE DEMOLISHED
  - BUILDING TO BE RETAINED
  - PROPOSED BUILDING FOOTPRINT
  - TEMPORARY STRUCTURE



KELLYVILLE PARK PNRL EELS - CENTRE OF EXCELLENCE & COMMUNITY FACILITY

EXISTING / DEMOLITION

Client PARRAMATTA EELS

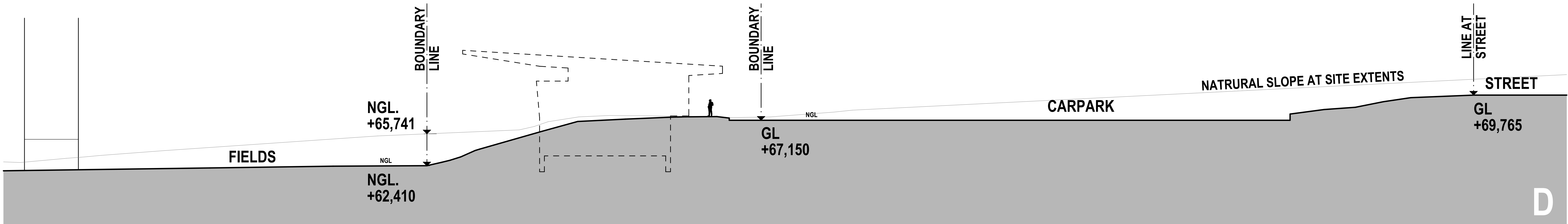
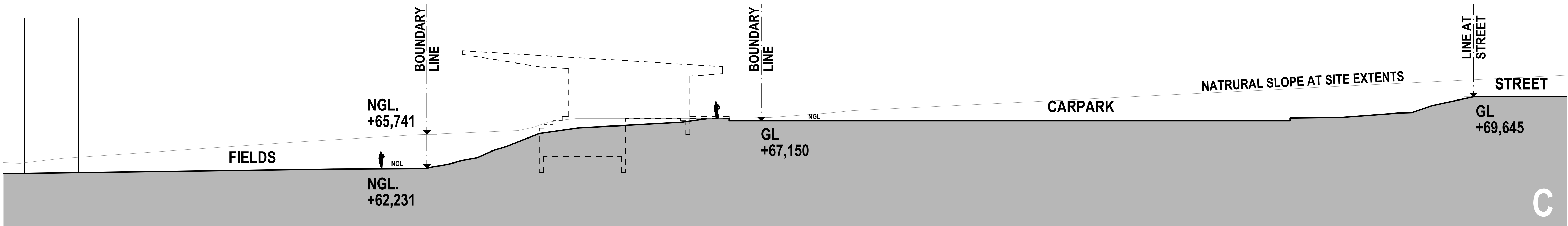
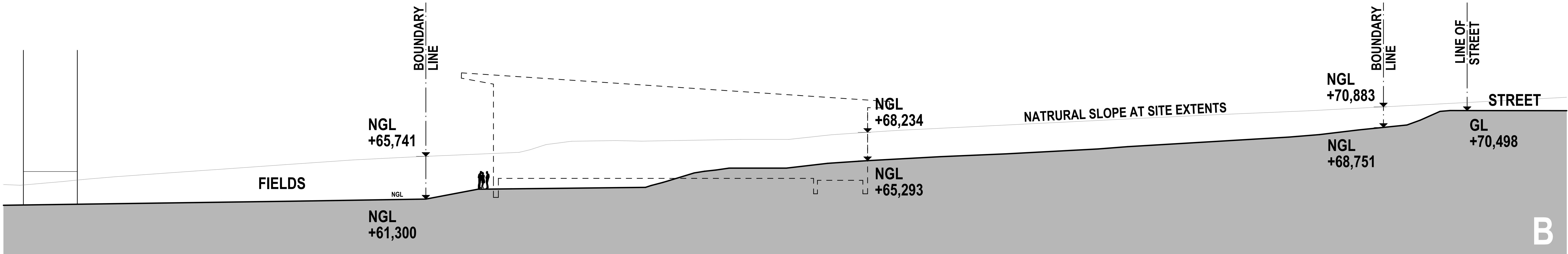
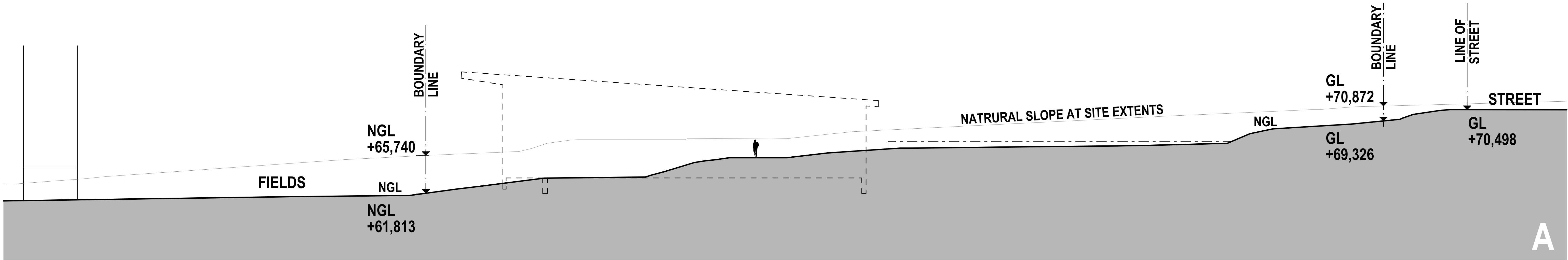
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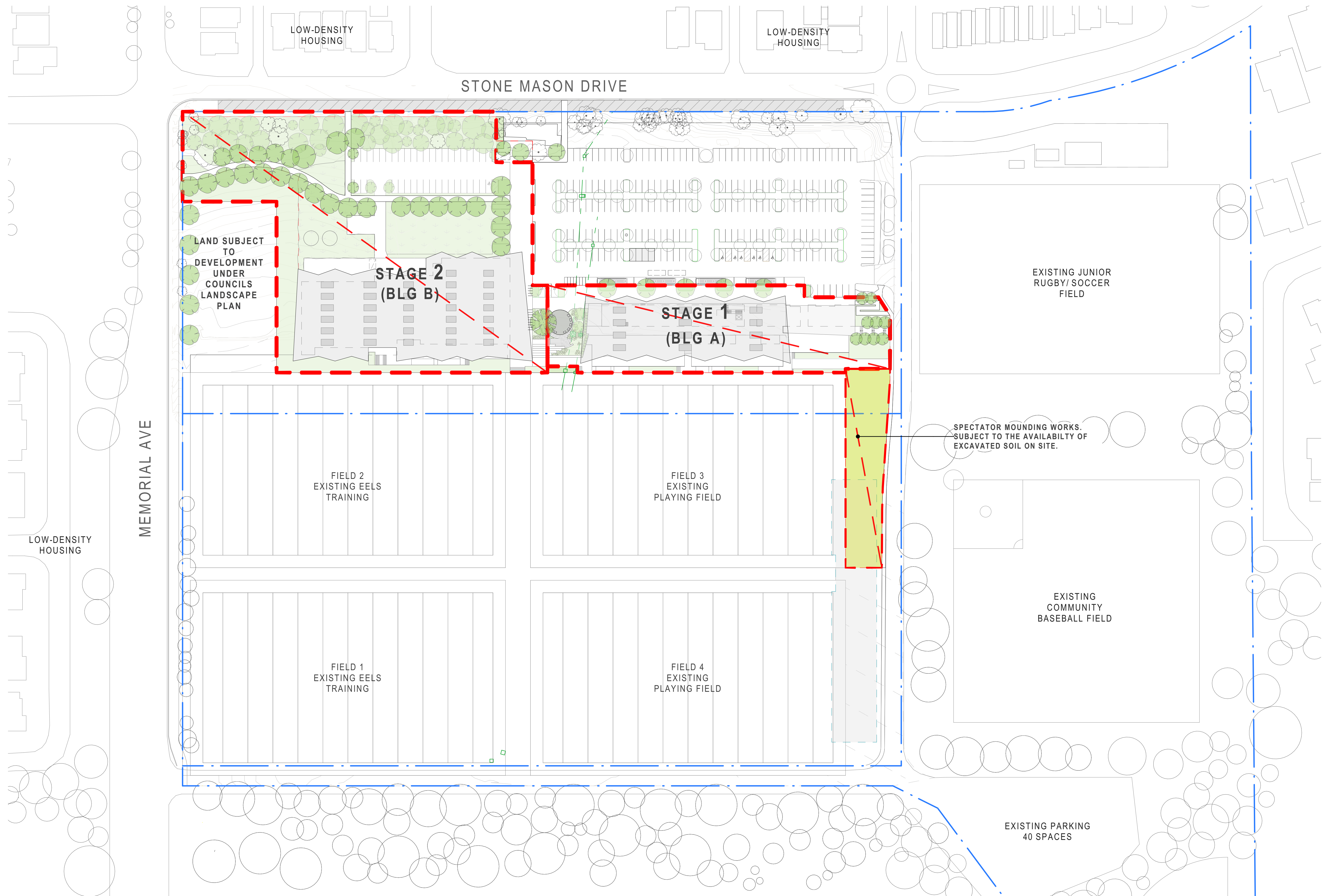
email@hbarch.com.au

A03









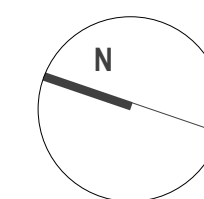
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HB ARCH ARCHITECTURE & PLANNING

LEGEND

— SITE TITLE BOUNDARY

— PROPOSED STAGING BOUNDARY



KELLYVILLE PARK PNRL EELS - CENTRE OF EXCELLENCE & COMMUNITY FACILITY

SITE STAGING PLAN

Client

Scale

7/04/2022

PARRAMATTA EELS

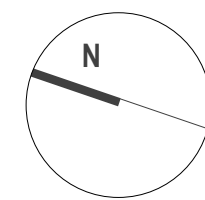
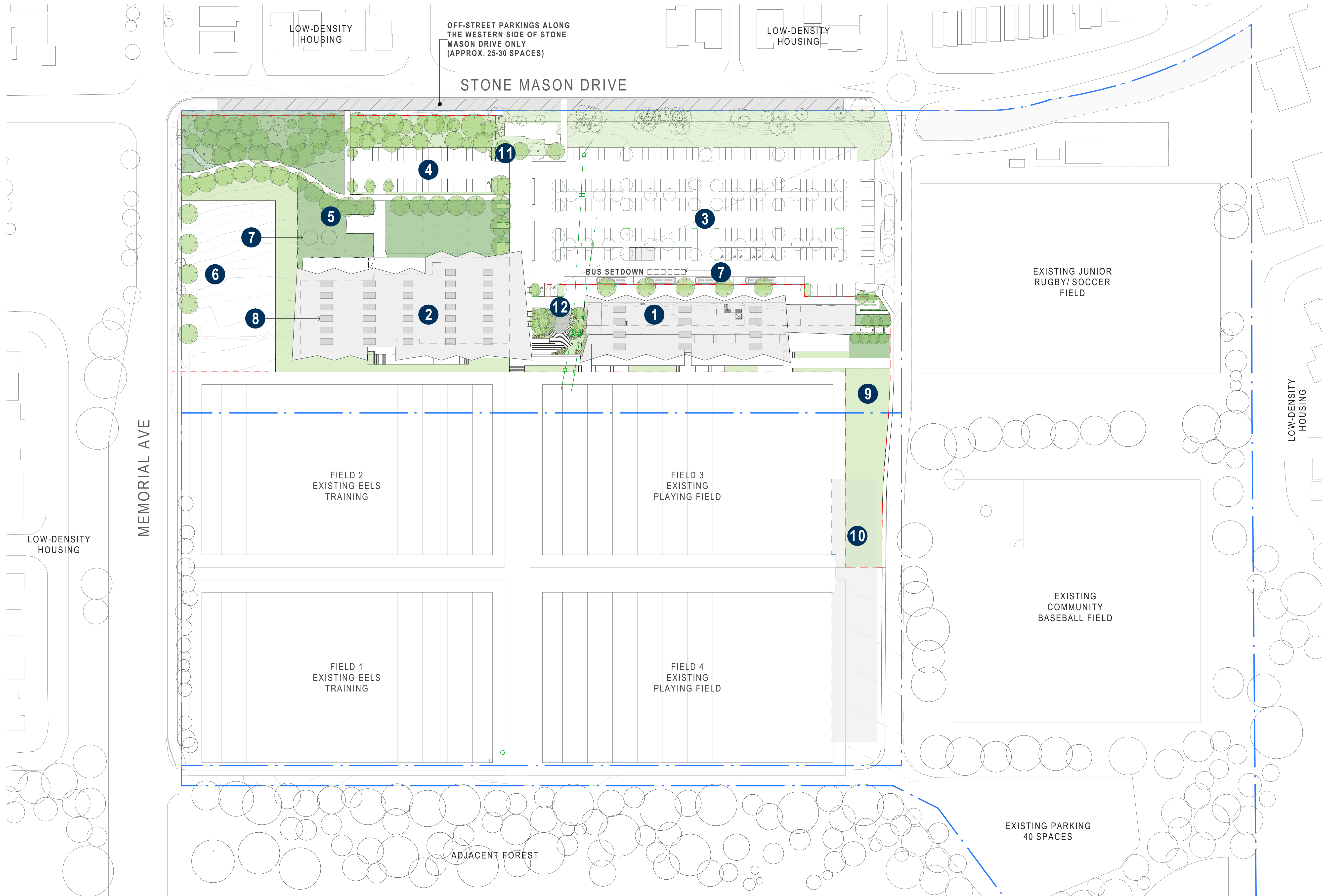
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A05







## CONNECTING WITH COUNTRY

ONGOING CO-DESIGN COLLABORATION WITH LOCAL INDIGENOUS GROUPS. IMAGES AND PLANS SHOWN ARE IN THE PROCESS OF DEVELOPMENT, AND AS SUCH, ARE SUBJECT TO CONSTANT CHANGE BASED ON NEW INFORMATION AND APPROVAL BY LOCAL INDIGENOUS GROUPS. THROUGH DISCUSSION BASED AND COLLABORATIVE DESIGN APPROACH, THE INSIGHTS GATHERED INFORMS VARIOUS ELEMENTS THROUGHOUT THE PROJECT.

# SESSION 1

## DESIGN WITH COUNTRY PRELIMINARY BRIEFING HELD WITH DARUG TRADITIONAL CUSTODIANS

# SESSION 2

## DESIGNING WITH COUNTRY PRELIMINARY BRIEFING HELD WITH FIRST NATIONS EX- PLAYERS.

**SESSION  
ONGOING**

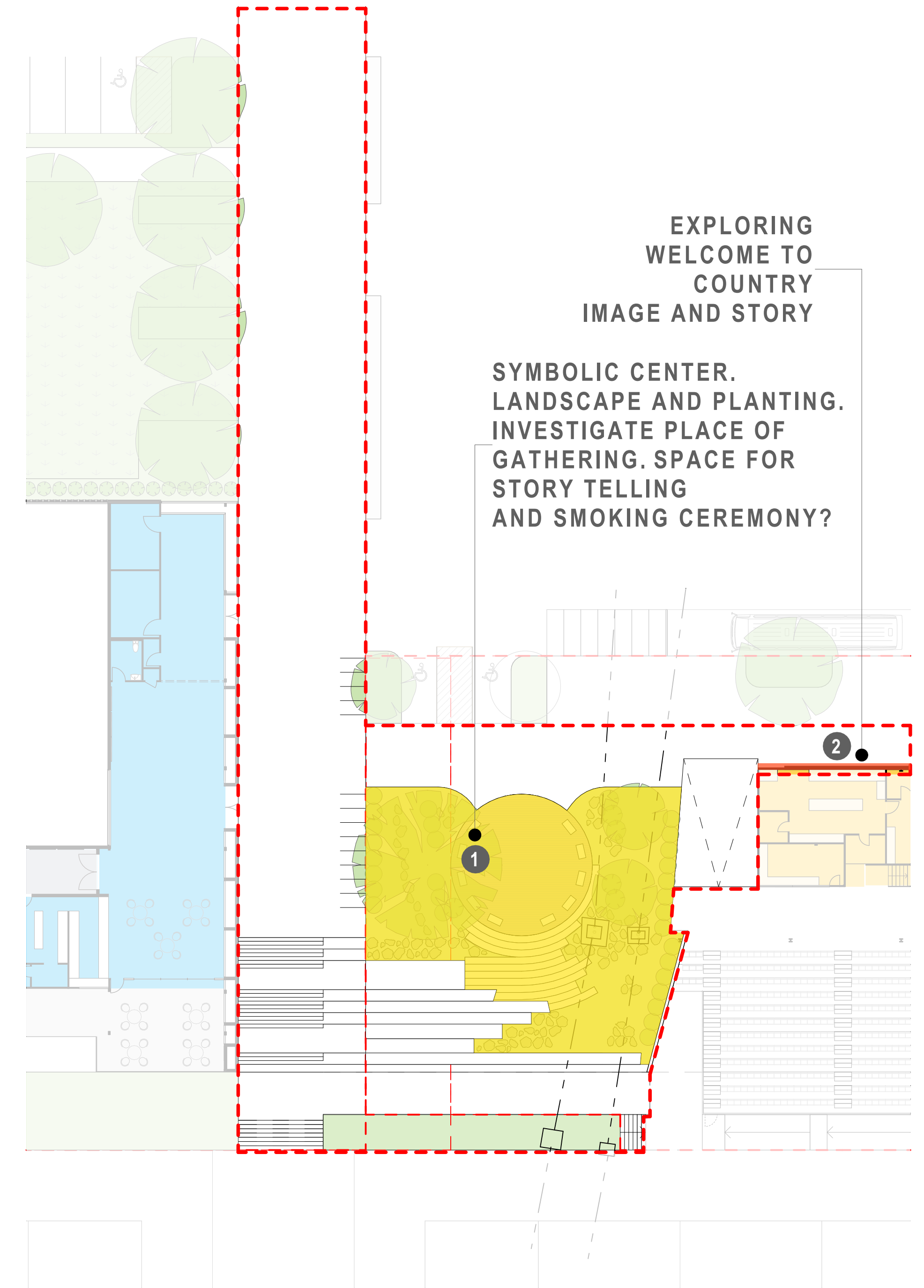
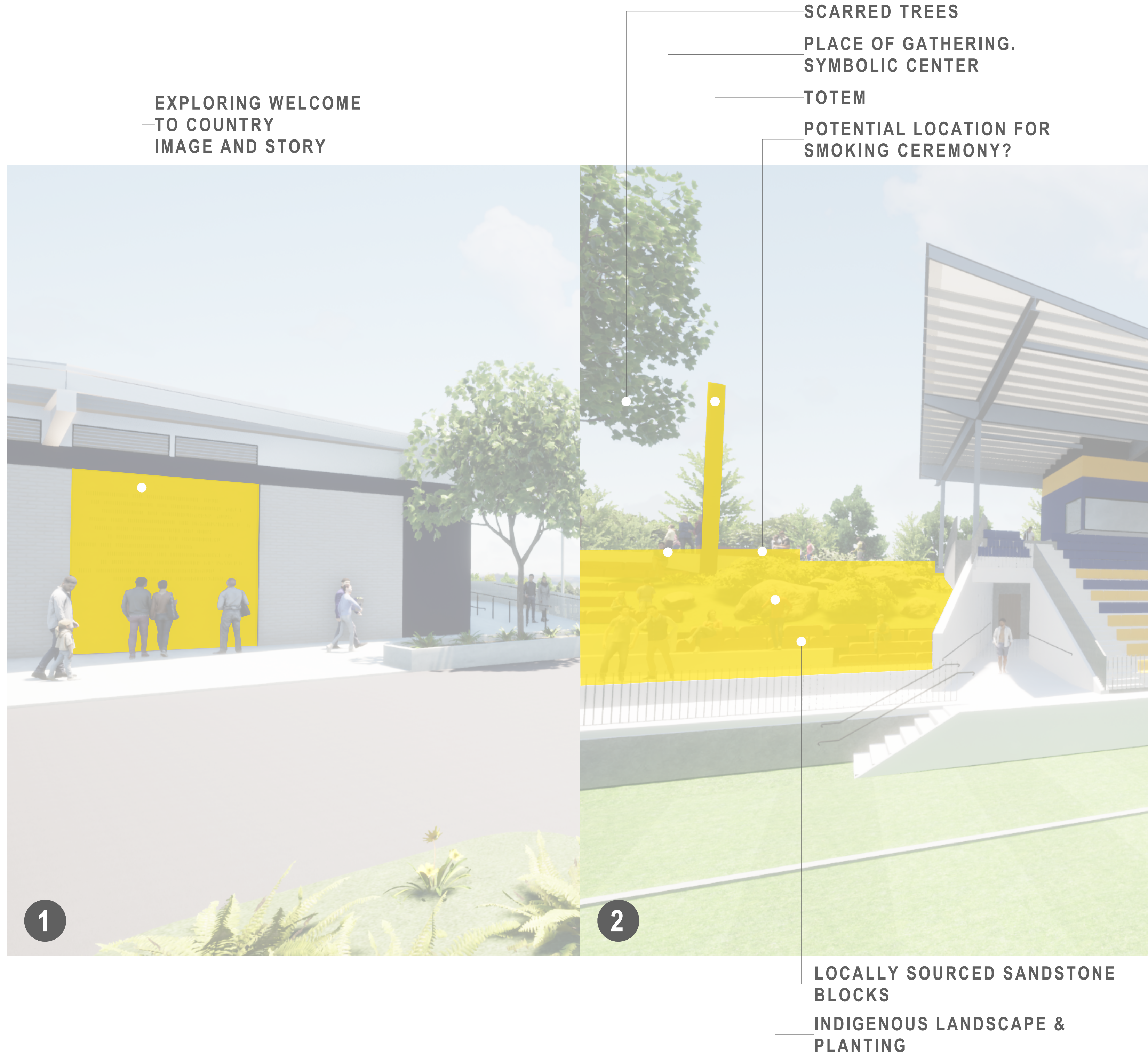
ONGOING  
FIRST DESIGNING WITH  
COUNTRY WORKSHOP.

**SESSION  
ONGOING**

ONGOING  
SECOND DESIGNING WITH  
COUNTRY WORKSHOP.

**SESSION  
ONGOING**

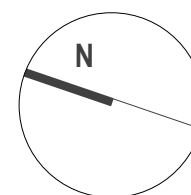
ONGOING  
DESIGNING WITH COUNTRY  
IMPLEMENTATION  
FRAMEWORK FINALISED.



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**HB ARCH ARCHITECTURE & PLANNING**

## LEGEND



## KELLYVILLE PARK PNRL EELS - CENTRE OF EXCELLENCE & COMMUNITY FACILITY

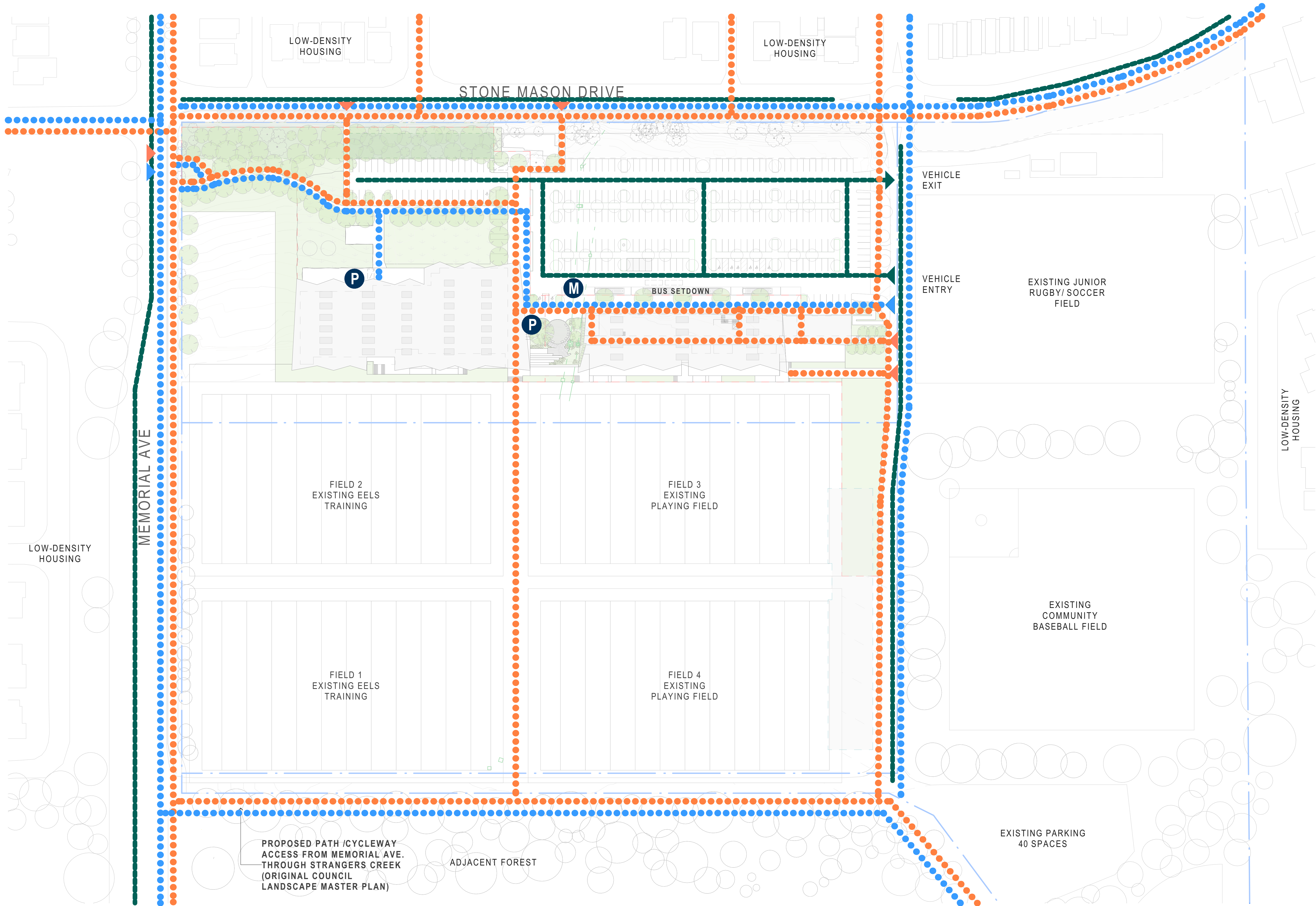
### CONNECTING WITH COUNTRY

Client  
Scale  
7/04/2022

PARRAMATTA EELS  
1:250 @ A1  
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# A07





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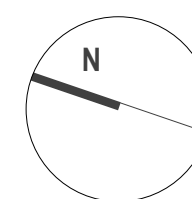
HB ARCH ARCHITECTURE & PLANNING

#### LEGEND

- EXISTING SITE VEGETATION
- SURROUNDING VEGETATION
- NEW VEGETATION

- GRASED AREA
- EXTENTS OF PROPOSED LANDSCAPING
- TEMPORARY STRUCTURE
- VEHICULAR TRAFFIC ACCESS
- PEDESTRIAN TRAFFIC ACCESS
- BICYCLE ACCESS
- TRAFFIC CIRCULATION
- PEDESTRIAN CIRCULATION
- BICYCLE CIRCULATION

- PROPOSED BICYCLE PARKING (TOTAL 53 SPACES, INCL. 23 VISITOR PARKING)
- PROPOSED MOTORCYCLE PARKING (TOTAL 7 SPACES)



KELLYVILLE PARK PNRL EELS - CENTRE OF EXCELLENCE & COMMUNITY FACILITY

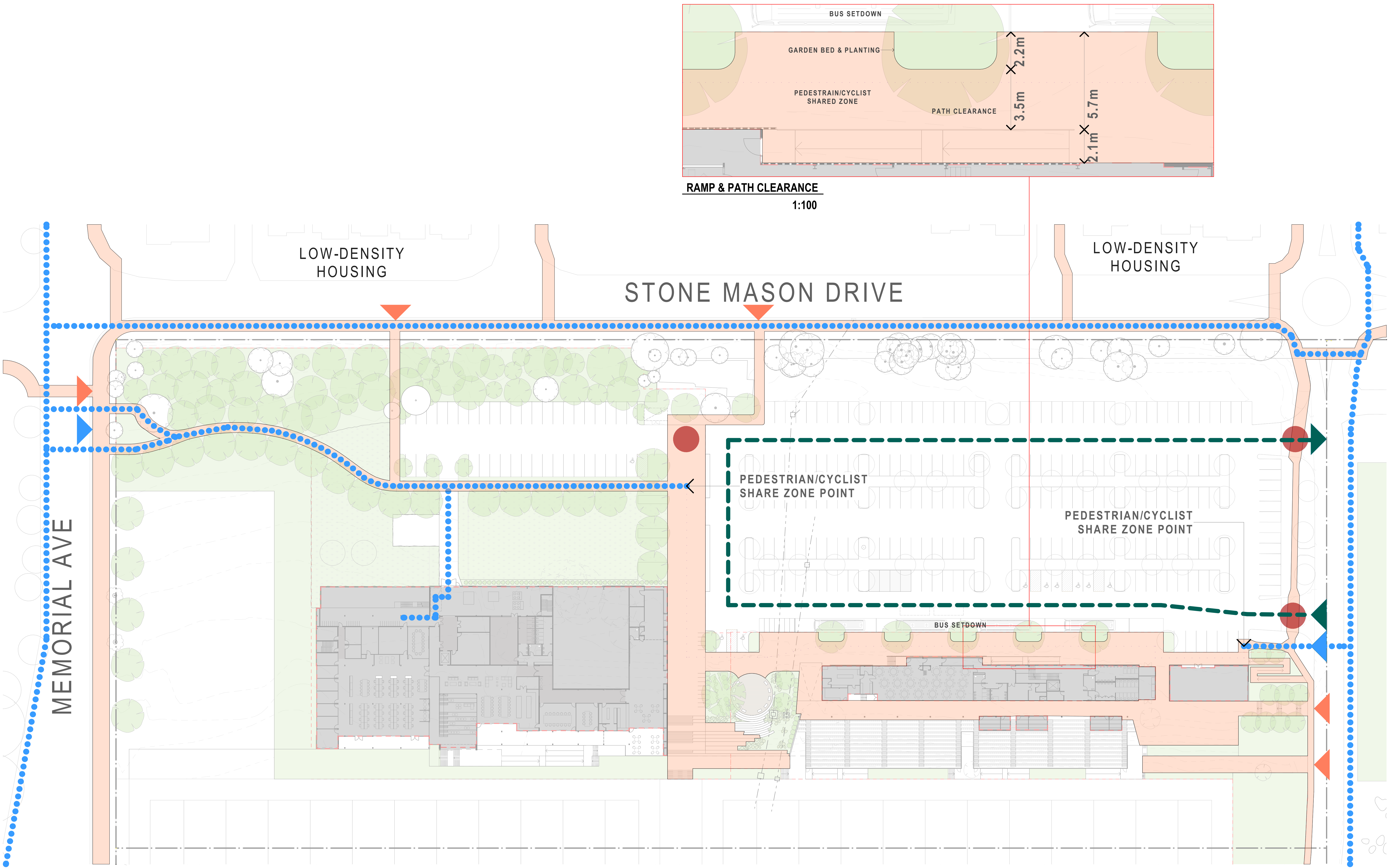
CONNECTIVITIES SITE PLAN

Client  
Scale  
7/04/2022

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# A08





**RAMP & PATH CLEARANCE**  
1:100





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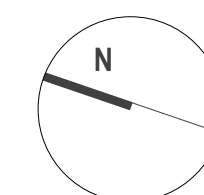
HB ARCH ARCHITECTURE & PLANNING

#### LEGEND

- PLAYER AMENITIES
- FOOTBALL DEPARTMENT
- CIRCULATION
- PLANT /STORE
- PEDESTRIAN CIRCULATION

- 1 HIGH PERFORMANCE / MEDICAL -SOCIAL CLUB
- 2 NRL / NRLW GYMNASIUM
- 3 FOOTBALL DEPARTMENT OFFICE & MEETING ROOMS
- 4 NRL / NRLW PLAYERS LOCKERS AND AMENITIES

- 5 AQUATIC RECOVERY
- 6 COE LOWER TERRACE
- 11 EOT (END OF TRIP FACILITIES)



KELLYVILLE PARK PNRL EELS - CENTRE OF EXCELLENCE & COMMUNITY FACILITY

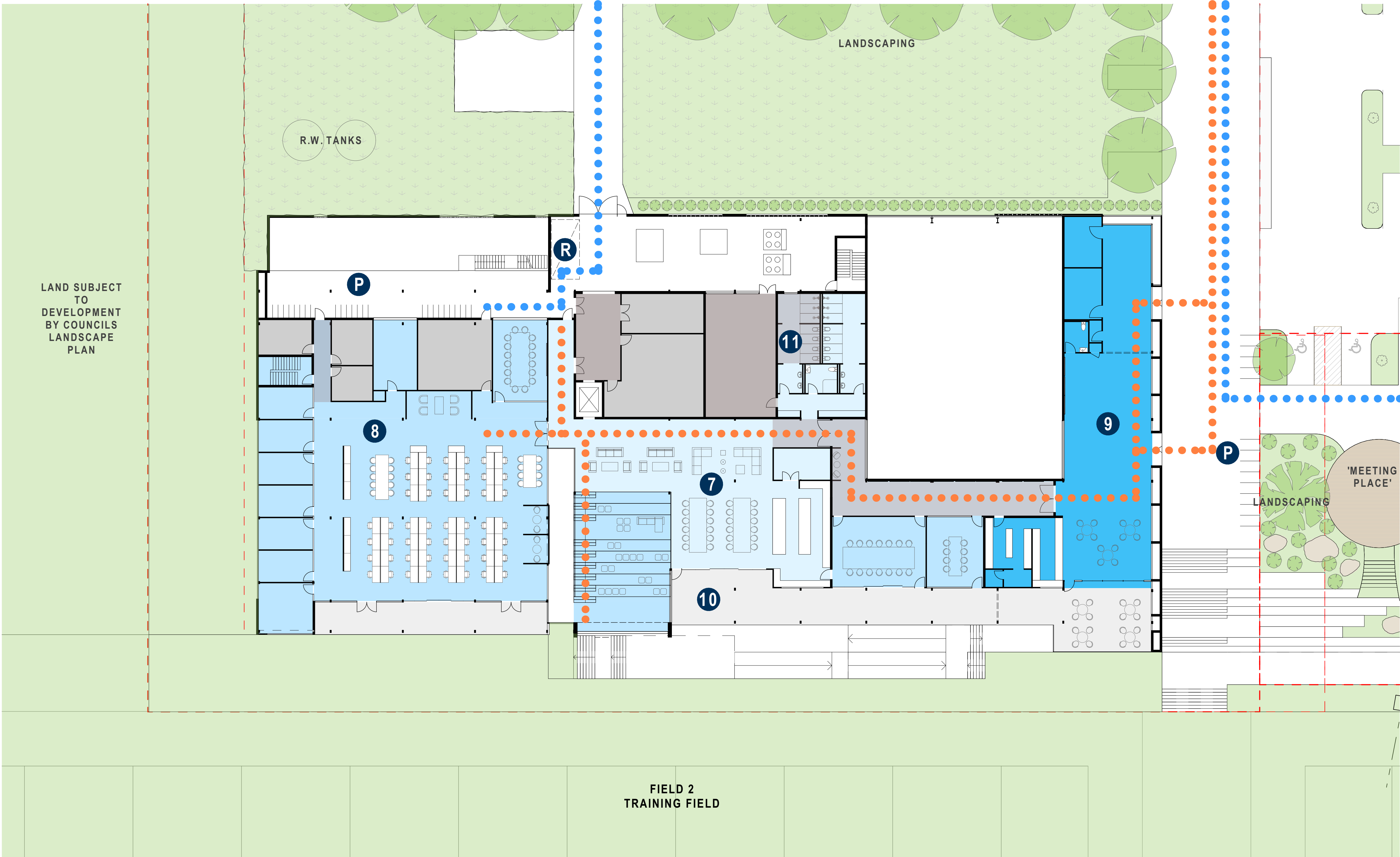
GA COE LOWER PLAN

Client  
Scale  
7/04/2022

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A10





GA SSDA PLAN UPPER A1



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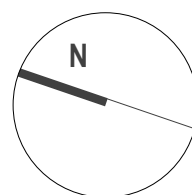
**HB ARCH ARCHITECTURE & PLANNING**

**LEGEND**

- PLAYER AMENITIES
- FOOTBALL DEPARTMENT
- CIRCULATION
- PLANT / STORE
- PEDESTRIAN CIRCULATION
- BICYCLE CIRCULATION

- 7 PNRL EELS SOCIAL CLUB/ KITCHEN
- 8 ADMINISTRATION OFFICES AND MEETING ROOMS
- 9 FOH MAIN ENTRY / RECEPTION / RETAIL / CAFE
- 10 PNRL EELS & MEMBERS BALCONY

- 11 EOT (END OF TRIP FACILITIES)
- P PROPOSED BICYCLE PARKING (TOTAL 53)
- R PROPOSED REFUSE AREA



KELLYVILLE PARK PNRL EELS - CENTRE OF EXCELLENCE & COMMUNITY FACILITY

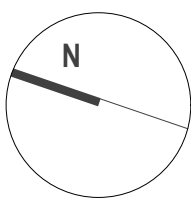
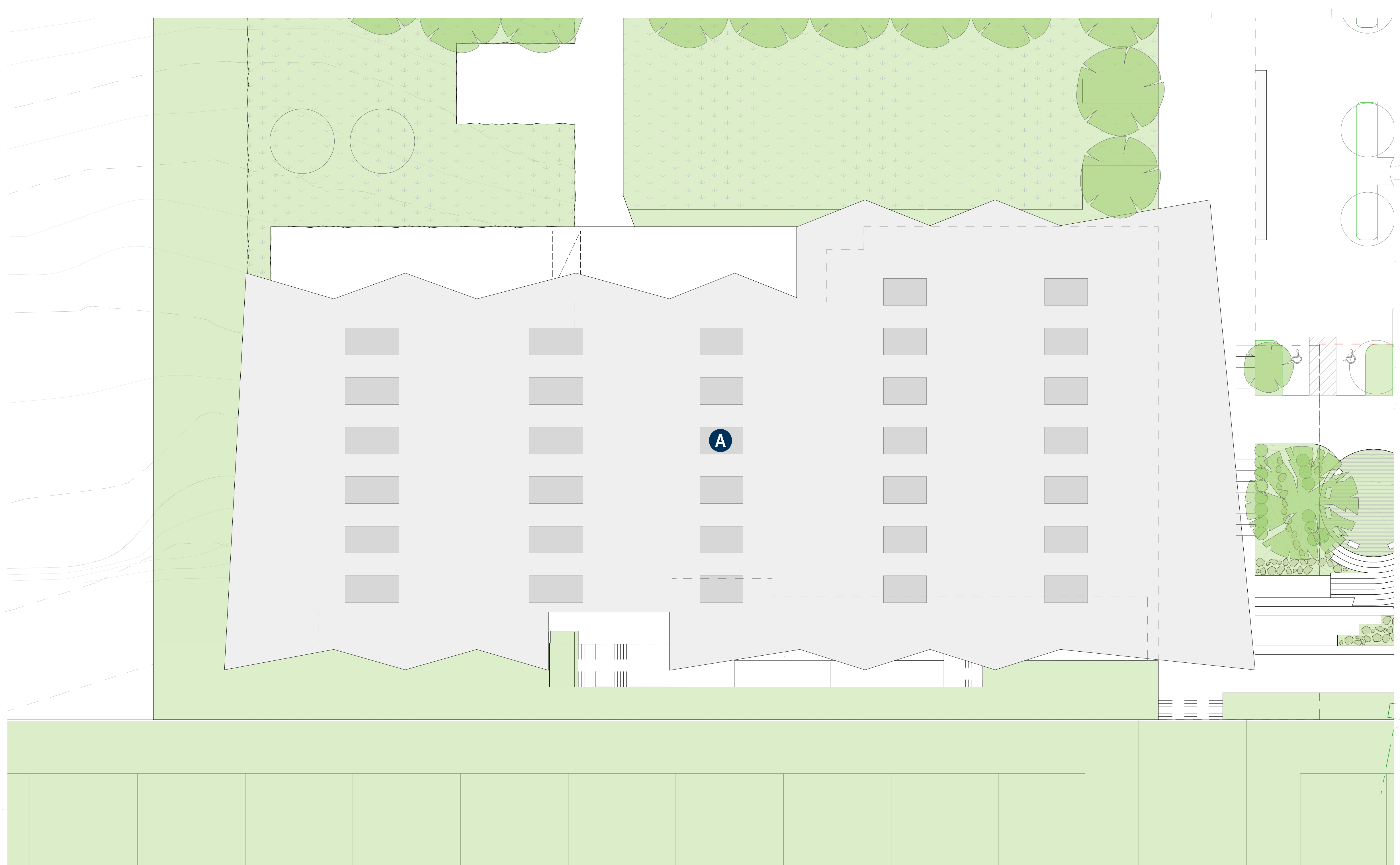
GA COE UPPER PLAN

Client  
Scale  
7/04/2022

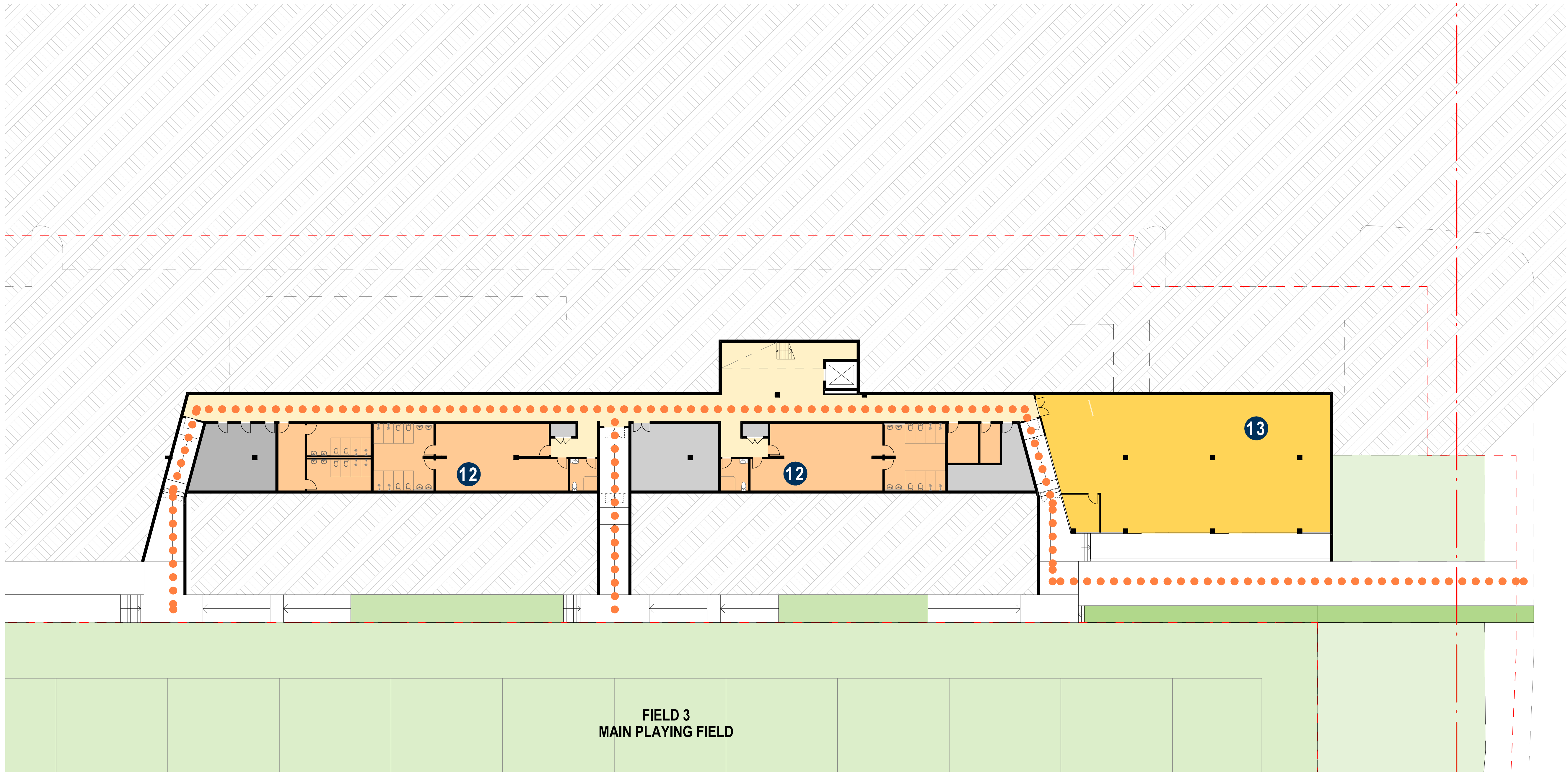
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A11









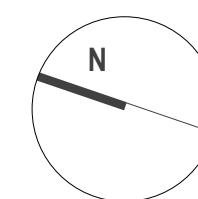
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HB ARCH ARCHITECTURE & PLANNING

#### LEGEND

- STORAGE/ PLANT
- AMENITIES
- COMMUNITY/ MULTIPURPOSE SPACE
- CIRCULATION
- PEDESTRIAN CIRCULATION

- 12 CHANGE ROOMS / AMENITIES
- 13 PNRL EELS JUNIOR PATHWAY GYMNASIUM



KELLYVILLE PARK PNRL EELS - CENTRE OF EXCELLENCE & COMMUNITY FACILITY

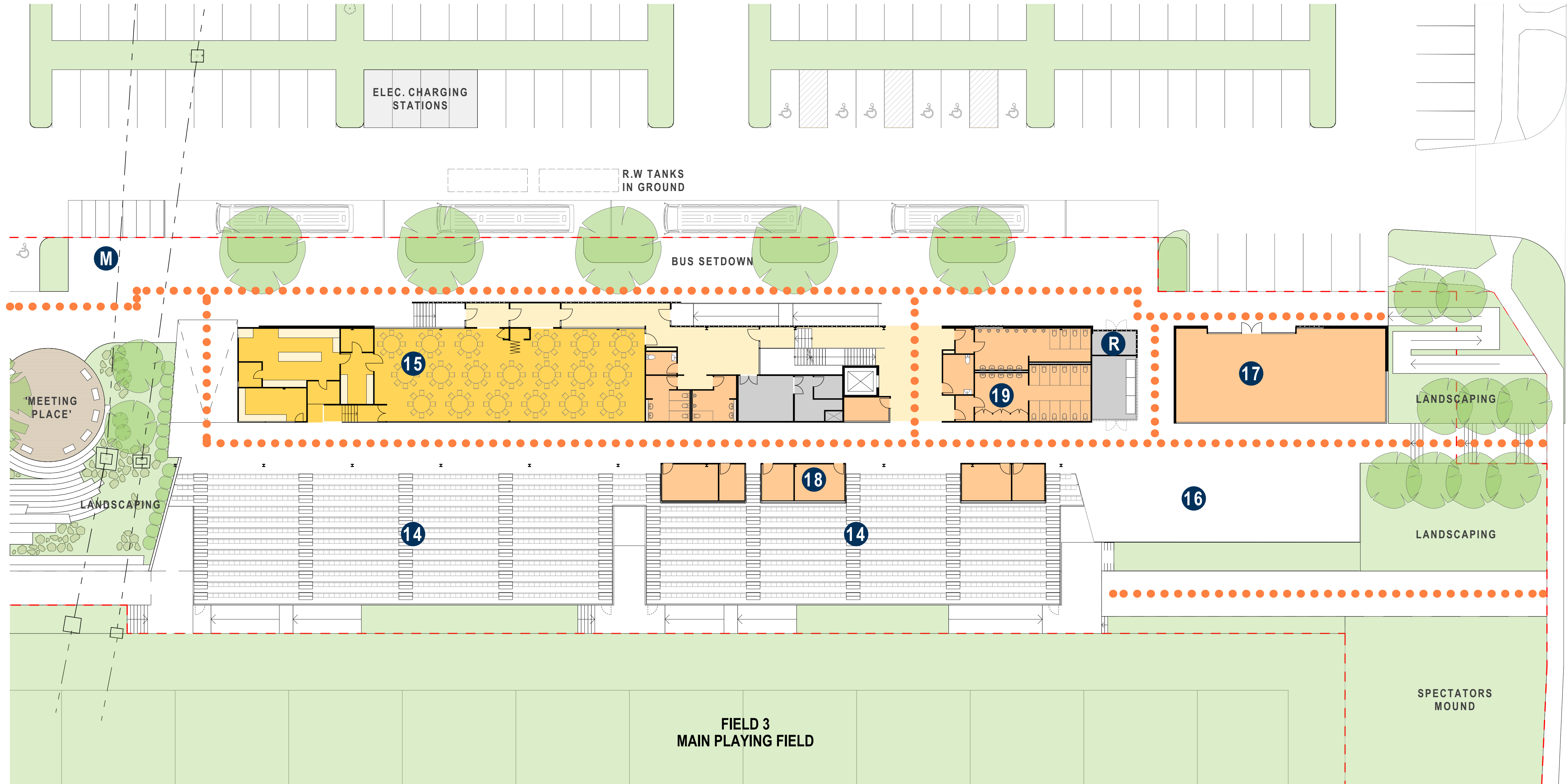
GA COMMUNITY FACILITY LOWER PLAN

Client  
Scale  
7/04/2022

PARRAMATTA EELS  
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A13





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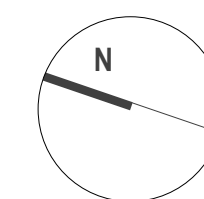
HB ARCH ARCHITECTURE & PLANNING

#### LEGEND

- STORAGE / PLANT
- AMENITIES
- COMMUNITY / MULTIPURPOSE SPACE
- CIRCULATION
- PEDESTRIAN CIRCULATION

- 14 GRANDSTAND SEATING - 1500 SEATS
- 15 COMMUNITY / MULTIPURPOSE SPACE
- 16 CONCOURSE MATCHDAY TERRACE
- 17 TENANCY

- 18 COACHES / MEDIA
- 19 SPECTATOR AMENITIES
- R PROPOSED REFUSE AREA
- M PROPOSED MOTORCYCLE PARKING (7 SPACES)



KELLYVILLE PARK PNRL EELS - CENTRE OF EXCELLENCE & COMMUNITY FACILITY

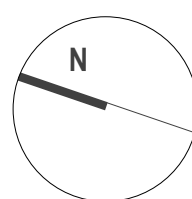
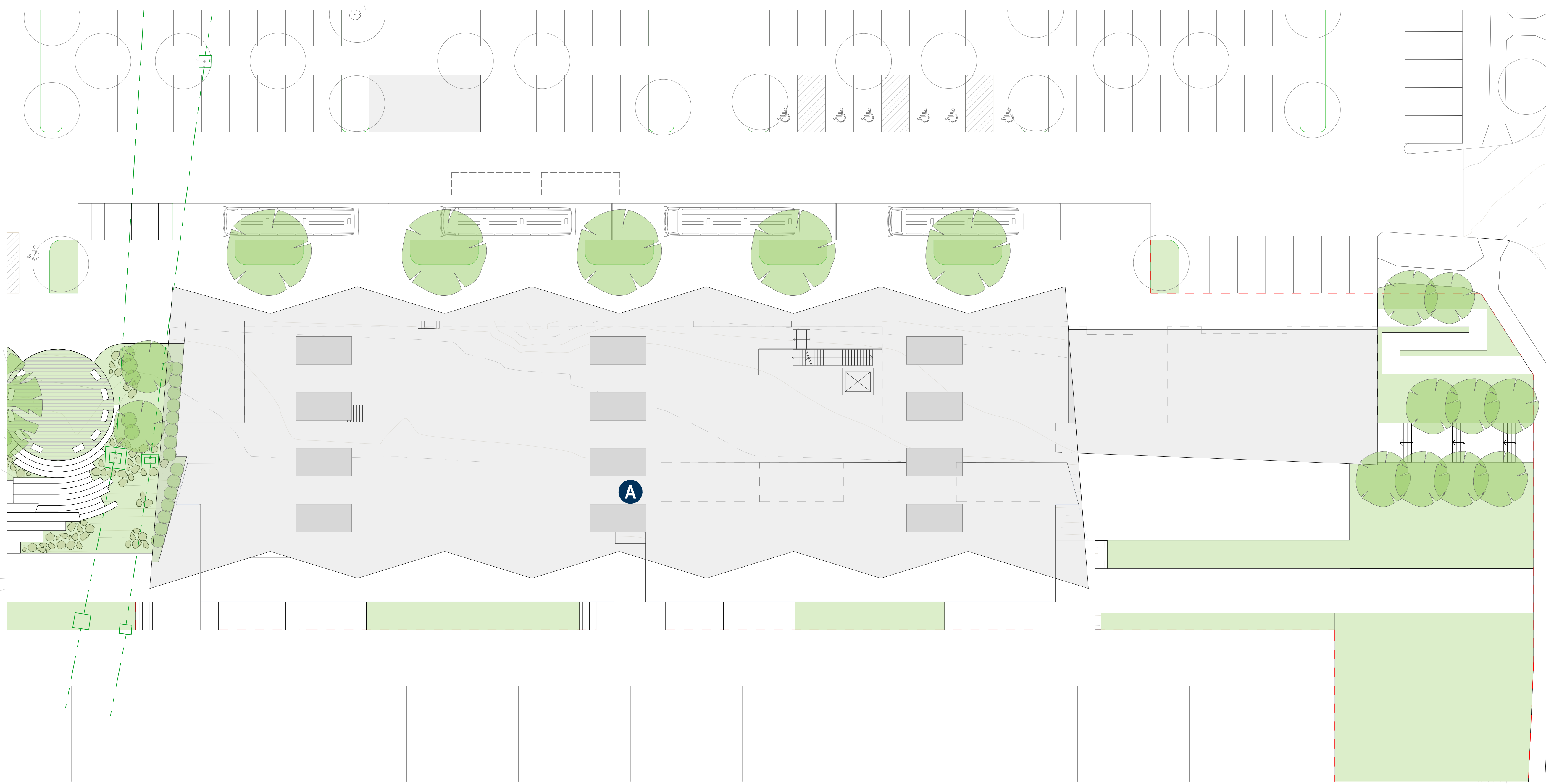
GA COMMUNITY FACILITY UPPER PLAN

Client  
Scale  
7/04/2022

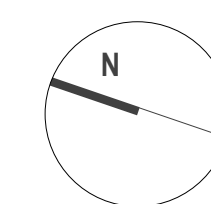
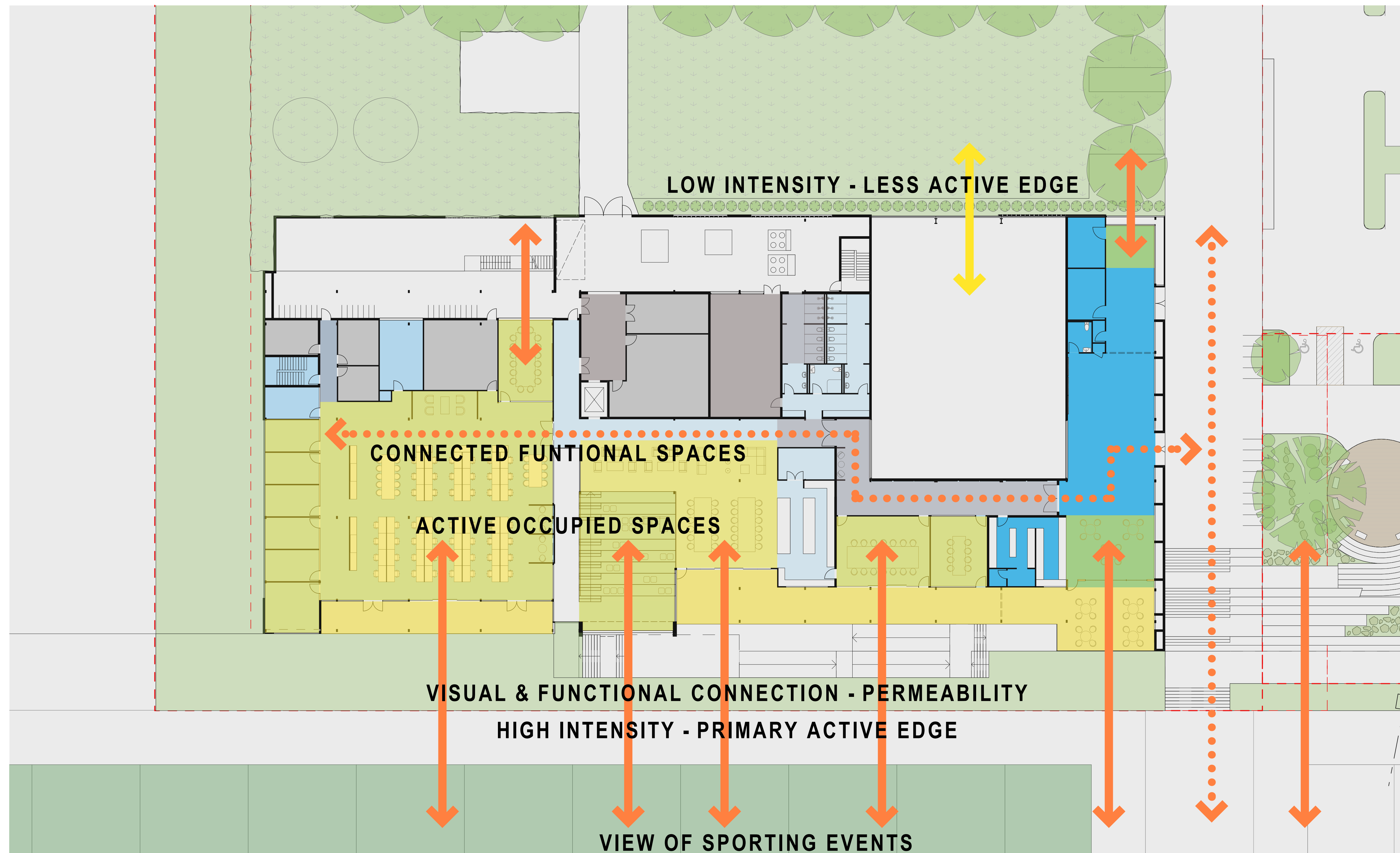
PARRAMATTA EELS  
1:200 @ A1  
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A14

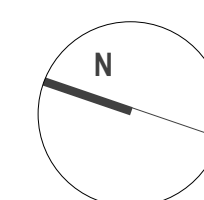
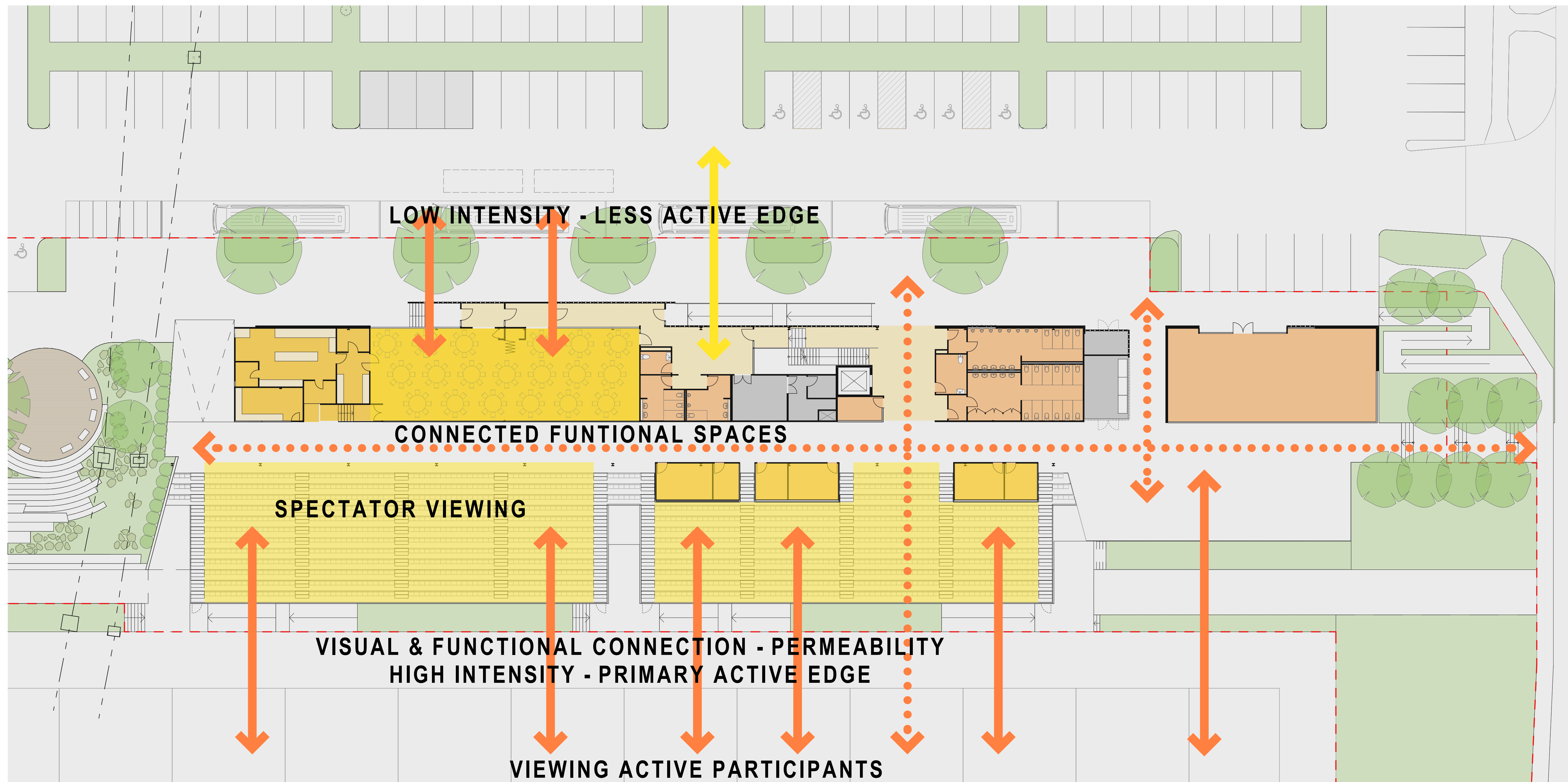










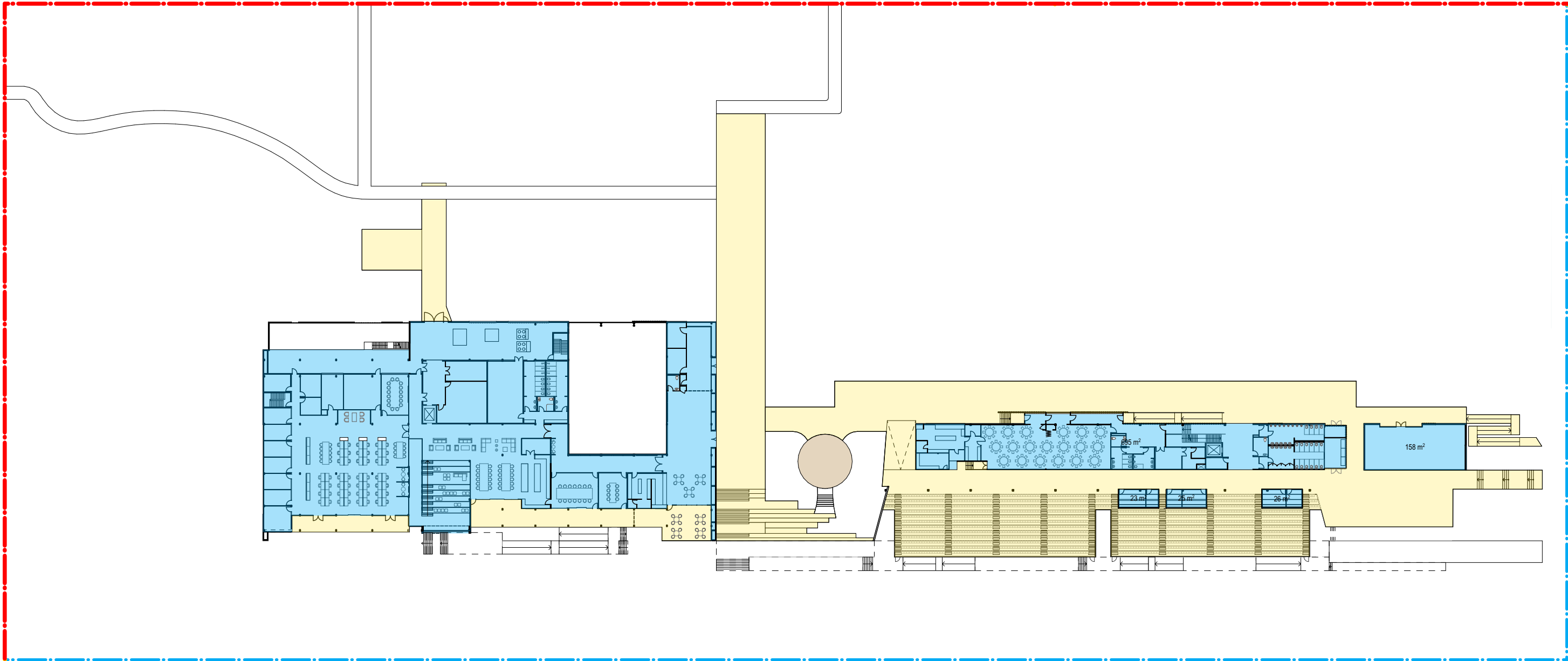




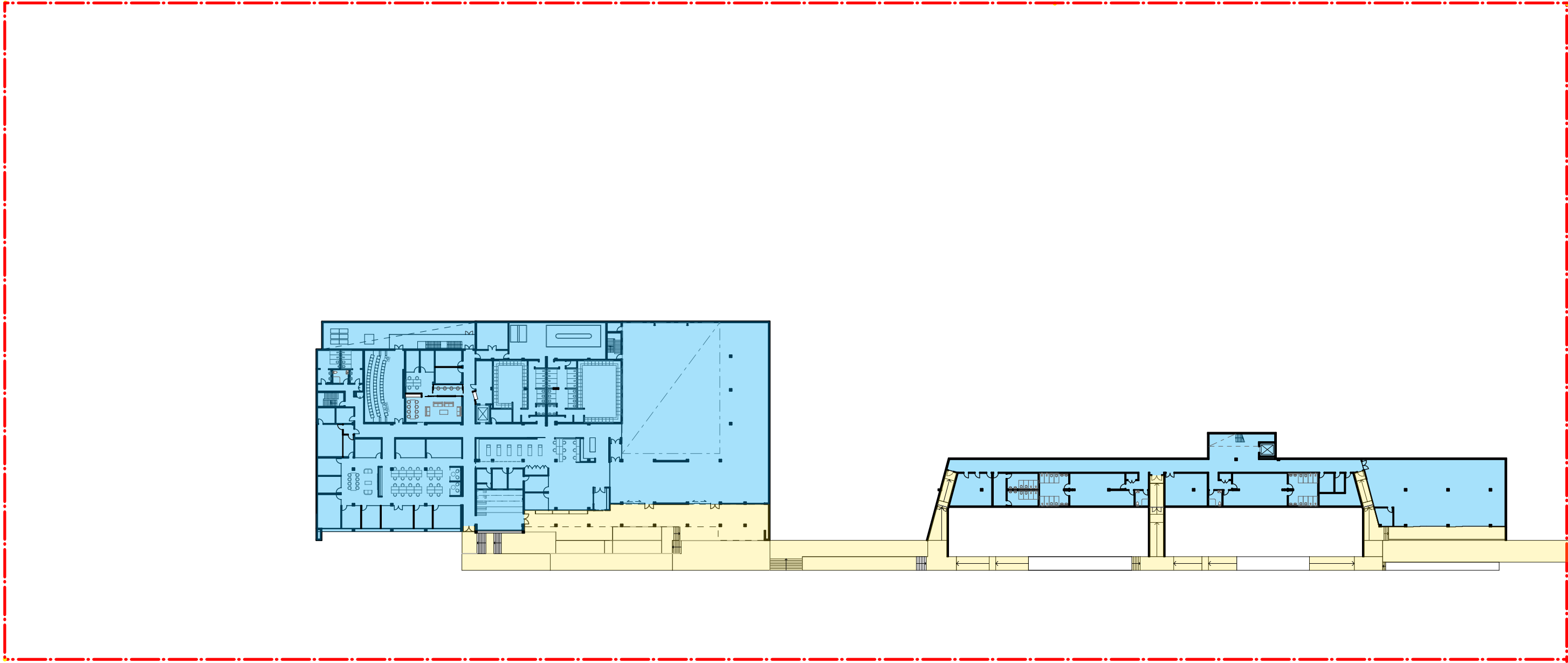
GROSS BUILDING AREA (GBA)

DEFINITION: GROSS BUILDING AREA (GBA) MEANS THE TOTAL ENCLOSED AND UNENCLOSED AREA OF THE BUILDING AT ALL BUILDING FLOOR LEVELS MEASURED BETWEEN THE NORMAL OUTSIDE FACE OF ANY ENCLOSING WALLS, BALUSTRADES AND SUPPORTS

| AREA SCHEDULE (GROSS BUILDING AREA)<br>CENTER OF EXCELLENCE |         | AREA SCHEDULE (GROSS BUILDING AREA)<br>COMMUNITY FACILITY |          |
|-------------------------------------------------------------|---------|-----------------------------------------------------------|----------|
| UPPER FLOOR                                                 |         | UPPER FLOOR                                               |          |
| ENCLOSED AREA                                               | 2,375m² | ENCLOSED AREA                                             | 927m²    |
| UNENCLOSED AREA                                             | 1,130m² | UNENCLOSED AREA                                           | 2,458m²  |
| LOWER FLOOR                                                 |         | LOWER FLOOR                                               |          |
| ENCLOSED AREA                                               | 3,018m² | ENCLOSED AREA                                             | 1,047²   |
| UNENCLOSED AREA                                             | 612m²   | UNENCLOSED AREA                                           | 615m²    |
| TOTAL                                                       | 7,135m² | TOTAL                                                     | 5,047m²  |
|                                                             |         | COMBINED TOTAL                                            | 12,182m² |



COE UPPER FLOOR



COE LOWER FLOOR

GROSS FLOOR AREA (GFA)

DEFINITION: GROSS FLOOR AREA (GFA) MEANS THE SUM OF THE FLOOR AREA OF EACH FLOOR OF A BUILDING MEASURED FROM THE INTERNAL FACE OF EXTERNAL WALLS, OR FROM THE INTERNAL FACE OF WALLS SEPARATING THE BUILDING FROM ANY OTHER BUILDING, MEASURED AT A HEIGHT OF 1.4 METRES ABOVE THE FLOOR, AND INCLUDES-

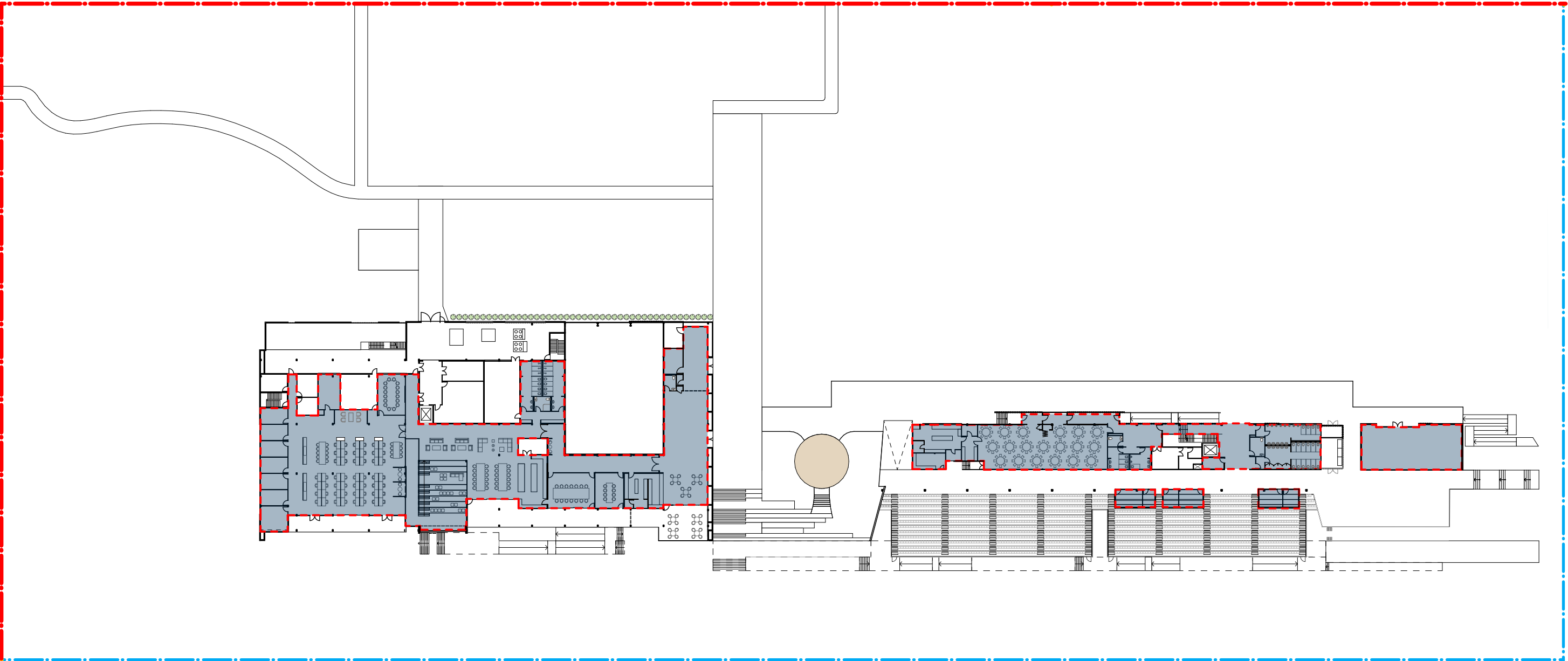
- (A) THE AREA OF A MEZZANINE, AND
- (B) HABITABLE ROOMS IN A BASEMENT OR AN ATTIC, AND
- (C) ANY SHOP, AUDITORIUM, CINEMA, AND THE LIKE, IN A BASEMENT OR ATTIC, BUT EXCLUDES-
- (D) ANY AREA FOR COMMON VERTICAL CIRCULATION, SUCH AS LIFTS AND STAIRS, AND
- (E) ANY BASEMENT-
- (I) STORAGE, AND
- (II) VEHICULAR ACCESS, LOADING AREAS, GARBAGE AND SERVICES, AND
- (F) PLANT ROOMS, LIFT TOWERS AND OTHER AREAS USED EXCLUSIVELY FOR MECHANICAL SERVICES OR DUCTING, AND
- (G) CAR PARKING TO MEET ANY REQUIREMENTS OF THE CONSENT AUTHORITY

(H) ANY SPACE USED FOR THE LOADING OR UNLOADING OF GOODS (INCLUDING ACCESS TO IT), AND  
(I) TERRACES AND BALCONIES WITH OUTER WALLS LESS THAN 1.4 METRES HIGH, AND  
(J) VOIDS ABOVE A FLOOR AT THE LEVEL OF A STOREY OR STOREY ABOVE.

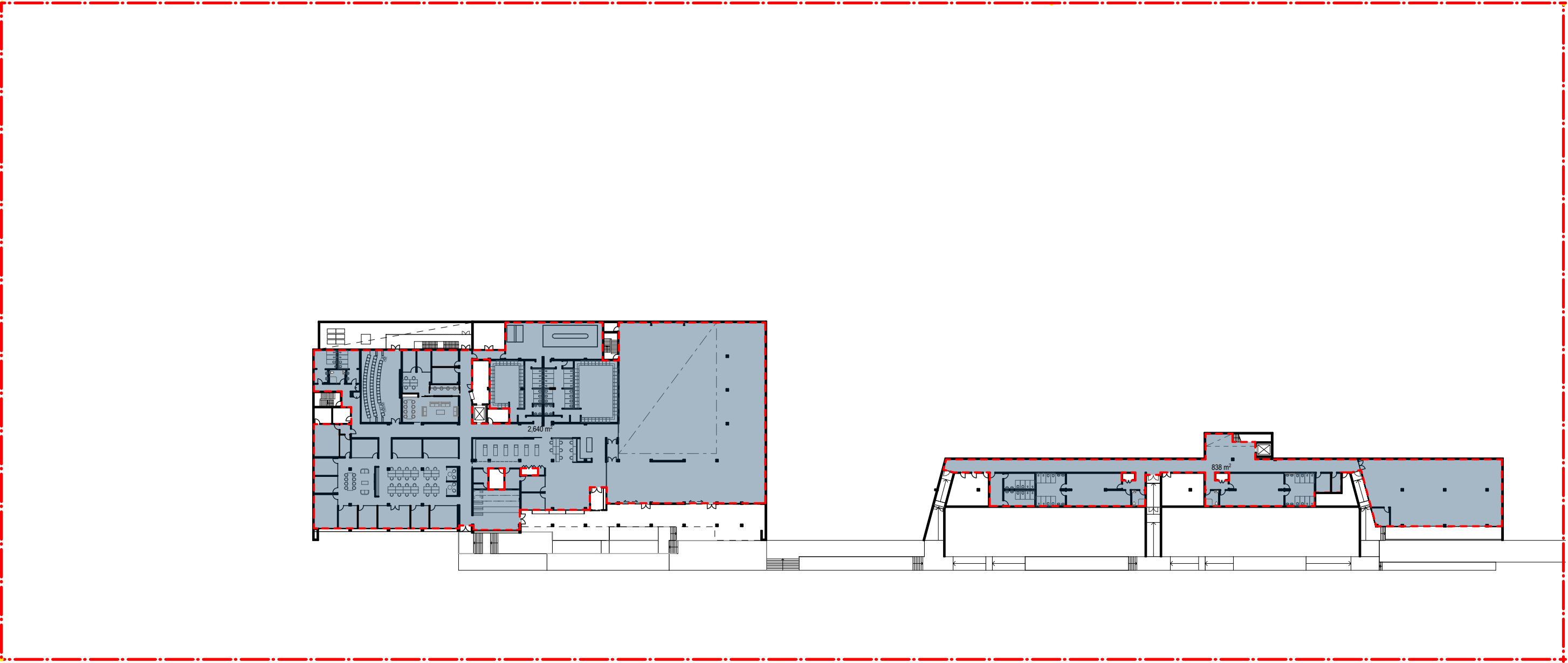
| AREA SCHEDULE (GROSS FLOOR AREA)<br>CENTER OF EXCELLENCE |         | AREA SCHEDULE (GROSS FLOOR AREA)<br>COMMUNITY FACILITY |         |
|----------------------------------------------------------|---------|--------------------------------------------------------|---------|
| LOWER FLOOR                                              | 2,640m² | LOWER FLOOR                                            | 838m²   |
| UPPER FLOOR                                              | 1,603m² | UPPER FLOOR                                            | 796m²   |
| TOTAL                                                    | 4,243m² | TOTAL                                                  | 1,634m² |

|                    |                |         |
|--------------------|----------------|---------|
| SITE AREA SCHEDULE | COMBINED TOTAL | 5,877m² |
| SITE AREA 34,688m² |                |         |

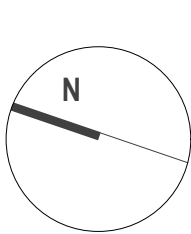
COMBINED FLOOR SPACE RATIO 17%



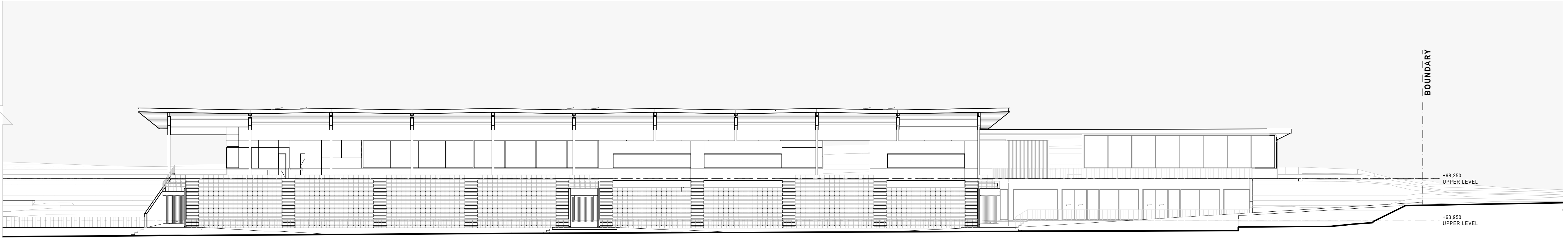
COMMUNITY FACILITY UPPER FLOOR



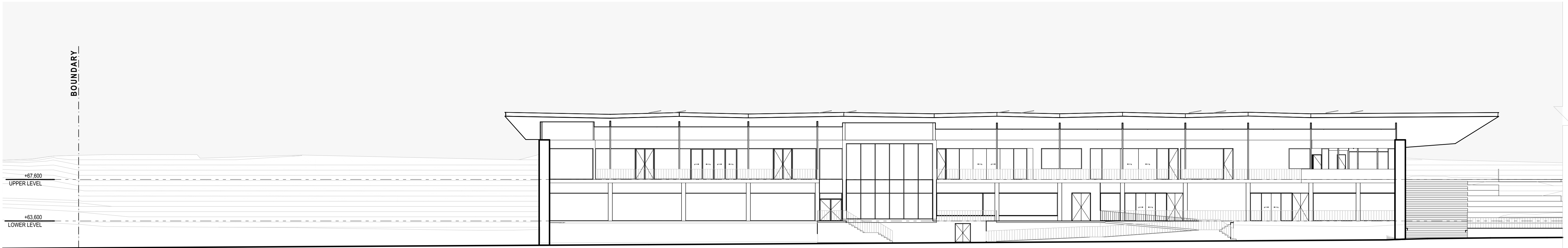
COMMUNITY FACILITY LOWER FLOOR







WEST ELEVATION 1 CONTEXT



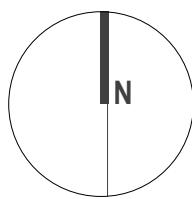
WEST ELEVATION 1 CONTEXT



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HB ARCH ARCHITECTURE & PLANNING

LEGEND



KELLYVILLE PARK PNRL EELS - CENTRE OF  
EXCELLENCE & COMMUNITY FACILITY

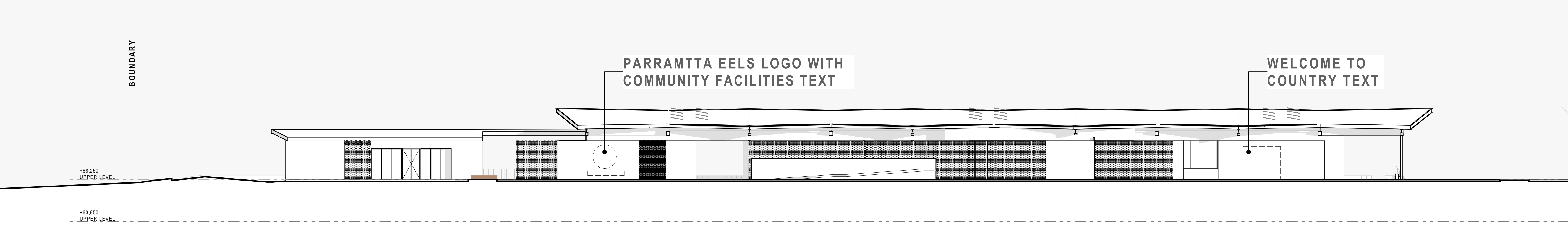
ELEVATIONS WEST

Client  
Scale  
7/04/2022

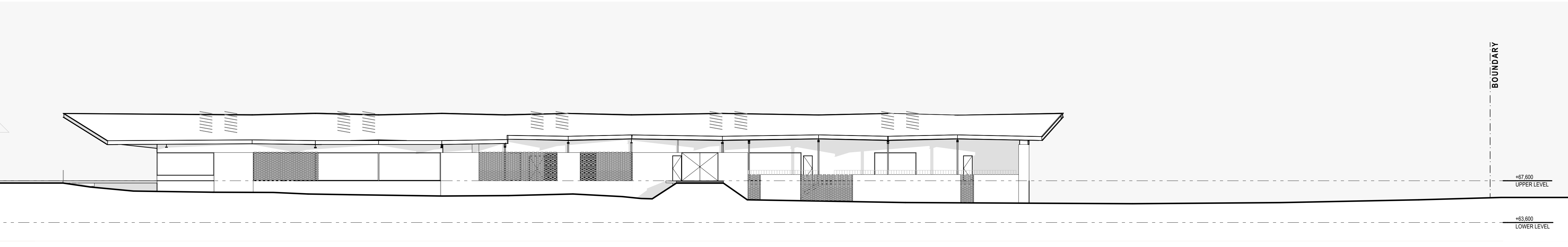
PARRAMATTA EELS  
1:200 @ A1  
SSDA - 'C'  
email@hbarch.com.au

A19

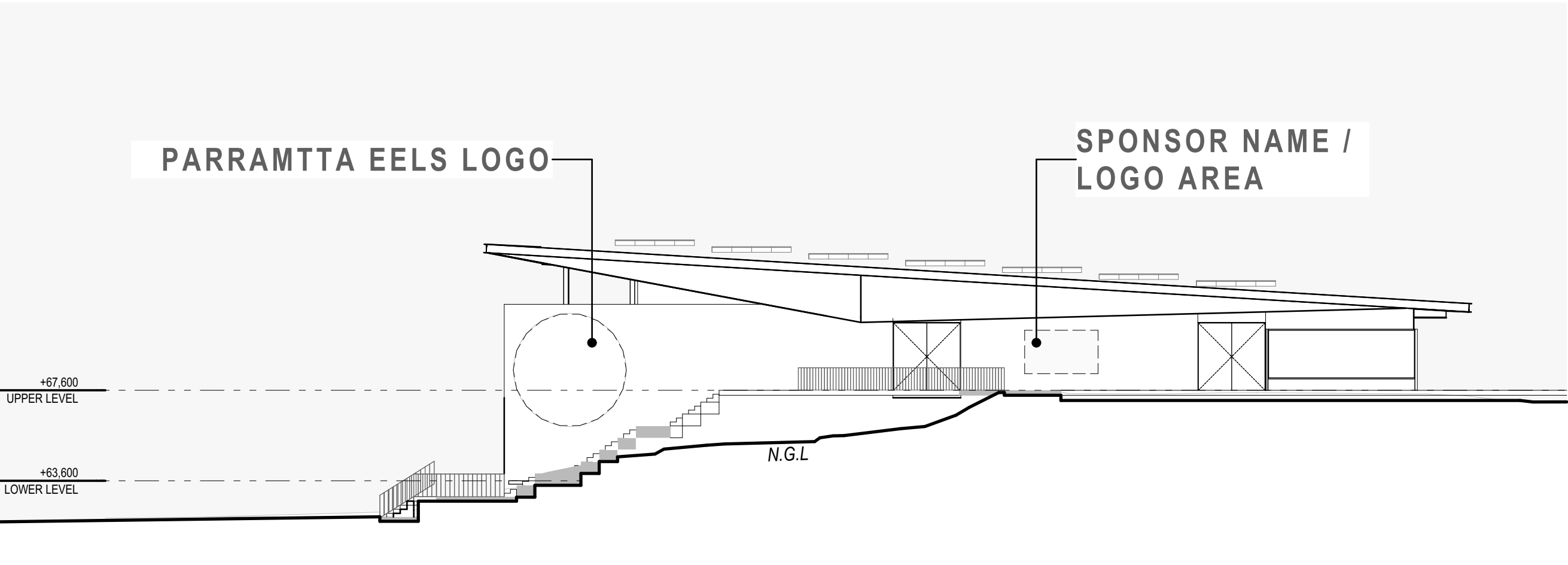




COMMUNITY CENTER ELEVATION

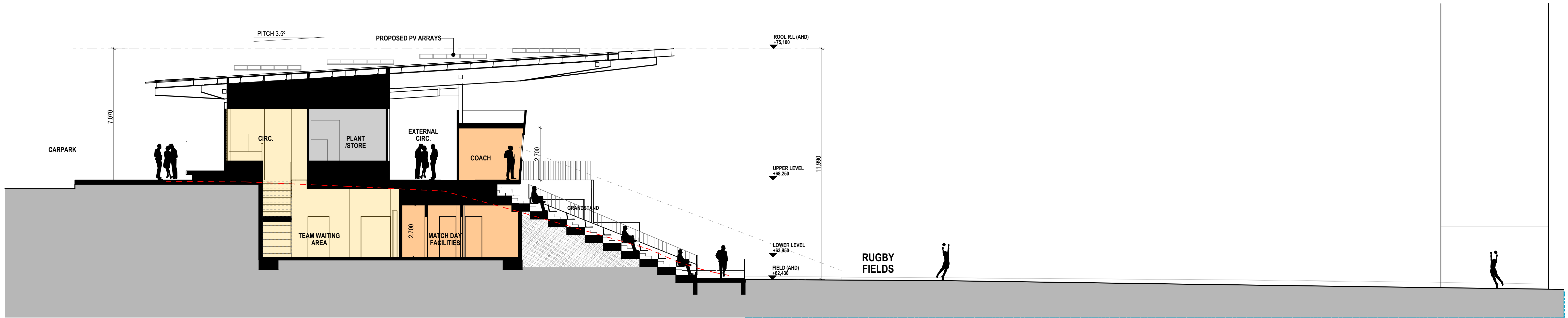


CENTER OF EXCELLENCE ELEVATION

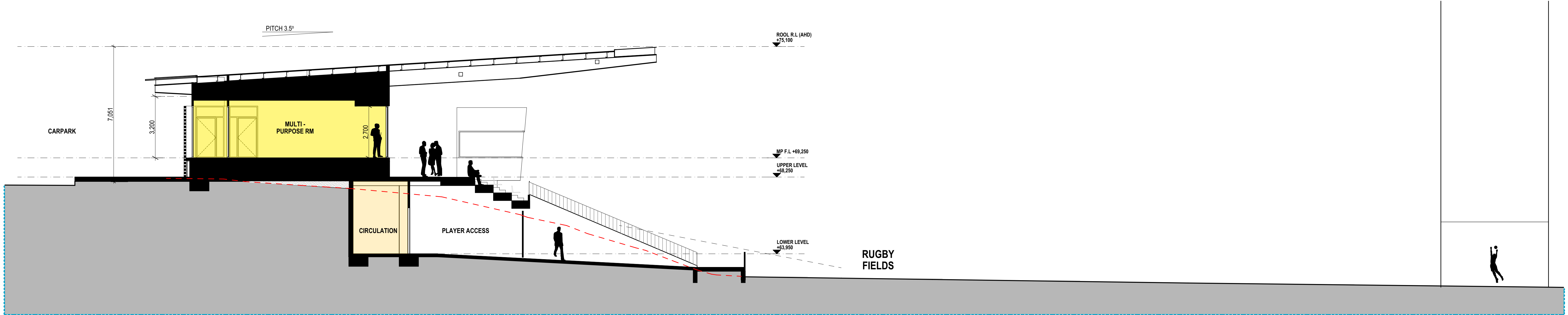


CENTER OF EXCELLENCE ELEVATION

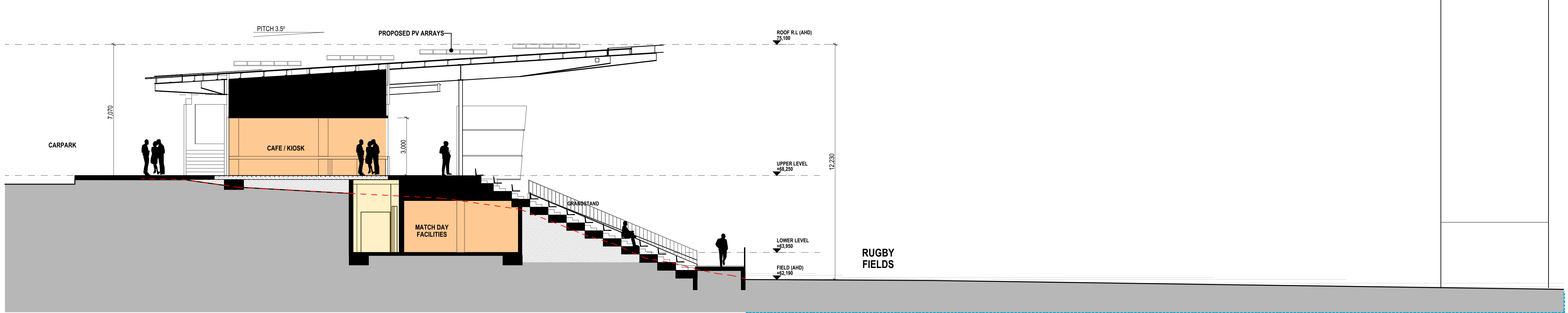




SECTION A CONTEXT A1

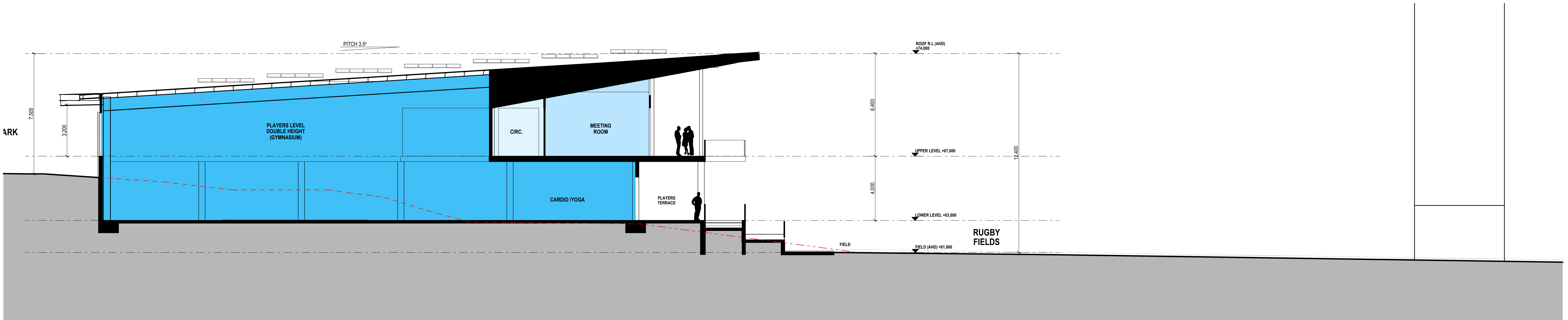


SECTION B CONTEXT A1

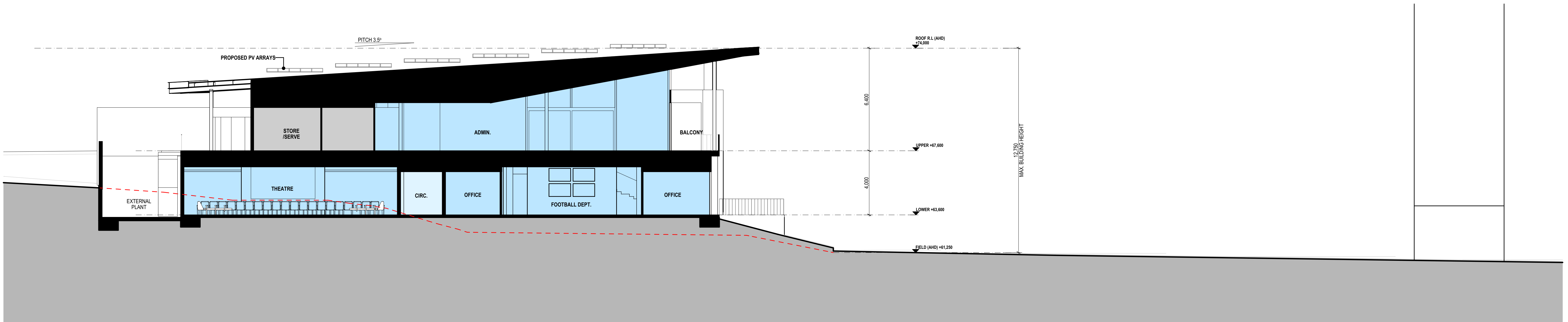


SECTION C CONTEXT A1





SECTION D CONTEXT A1



SECTION F CONTEXT A1





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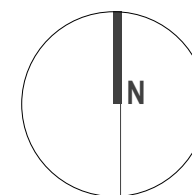
HB ARCH ARCHITECTURE & PLANNING

LEGEND

PROPOSED FOOTPRINT

VIEW POINT POSITIONS  
(1.5m HT + 50mm LENS)

FOCAL POINT



KELLYVILLE PARK PNRL EELS - CENTRE OF  
EXCELLENCE & COMMUNITY FACILITY

3D CONTEXT IMAGES KEY MAP

Client  
Scale  
7/04/2022

PARRAMATTA EELS  
1:750 @ A1  
SSDA - 'C'  
email@hbarch.com.au

A23





EXISTING - VIEW 01



NEW CONSTRUCTION - VIEW 01

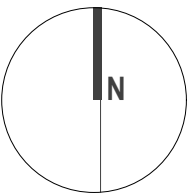




EXISTING - VIEW 02



NEW CONSTRUCTION - VIEW 02



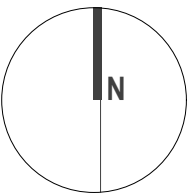




EXISTING - VIEW 03



NEW CONSTRUCTION - VIEW 03







EXISTING - VIEW 04



NEW CONSTRUCTION - VIEW 04





EXISTING - VIEW 05



NEW CONSTRUCTION - VIEW 05





EXISTING - VIEW 06



NEW CONSTRUCTION - VIEW 06





EXISTING - VIEW 07



NEW CONSTRUCTION - VIEW 07





EXISTING - VIEW 08



NEW CONSTRUCTION - VIEW 08



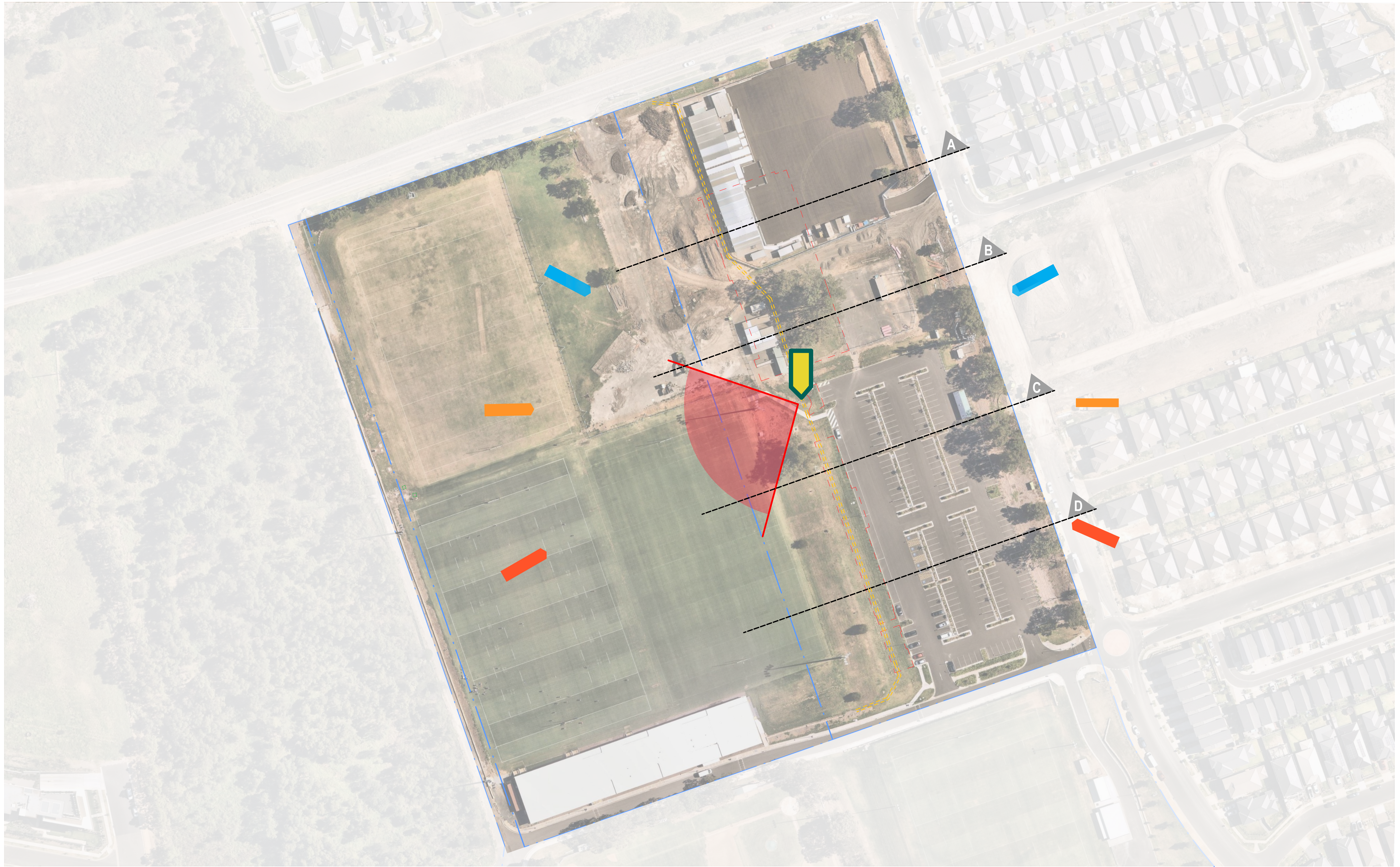


EXISTING - VIEW 09



NEW CONSTRUCTION - VIEW 09

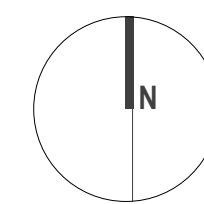
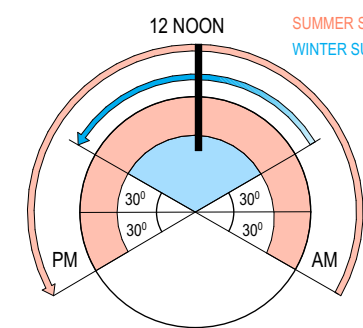




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HB ARCH ARCHITECTURE & PLANNING

- LEGEND
- PROPOSED FOOTPRINT
  - EDGE OF SLOPE
  - WINTER SOLSTICE
  - EQUINOX
  - SUMMER SOLSTICE
  - FOCAL POINT
  - OUTLOOK ACROSS SITE



KELLYVILLE PARK PNRL EELS - CENTRE OF  
EXCELLENCE & COMMUNITY FACILITY

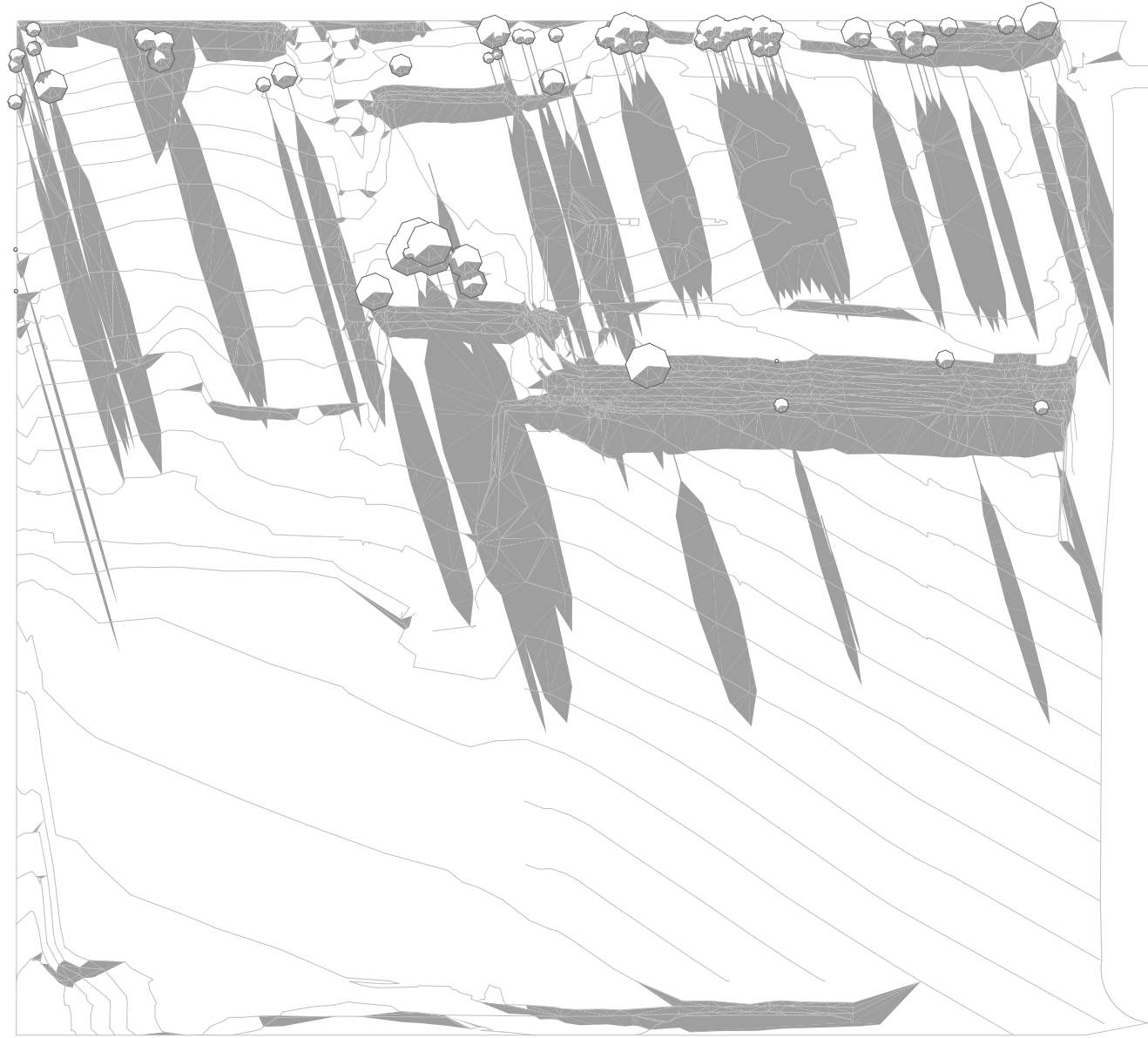
SUN DIAGRAM

Client  
Scale  
7/04/2022

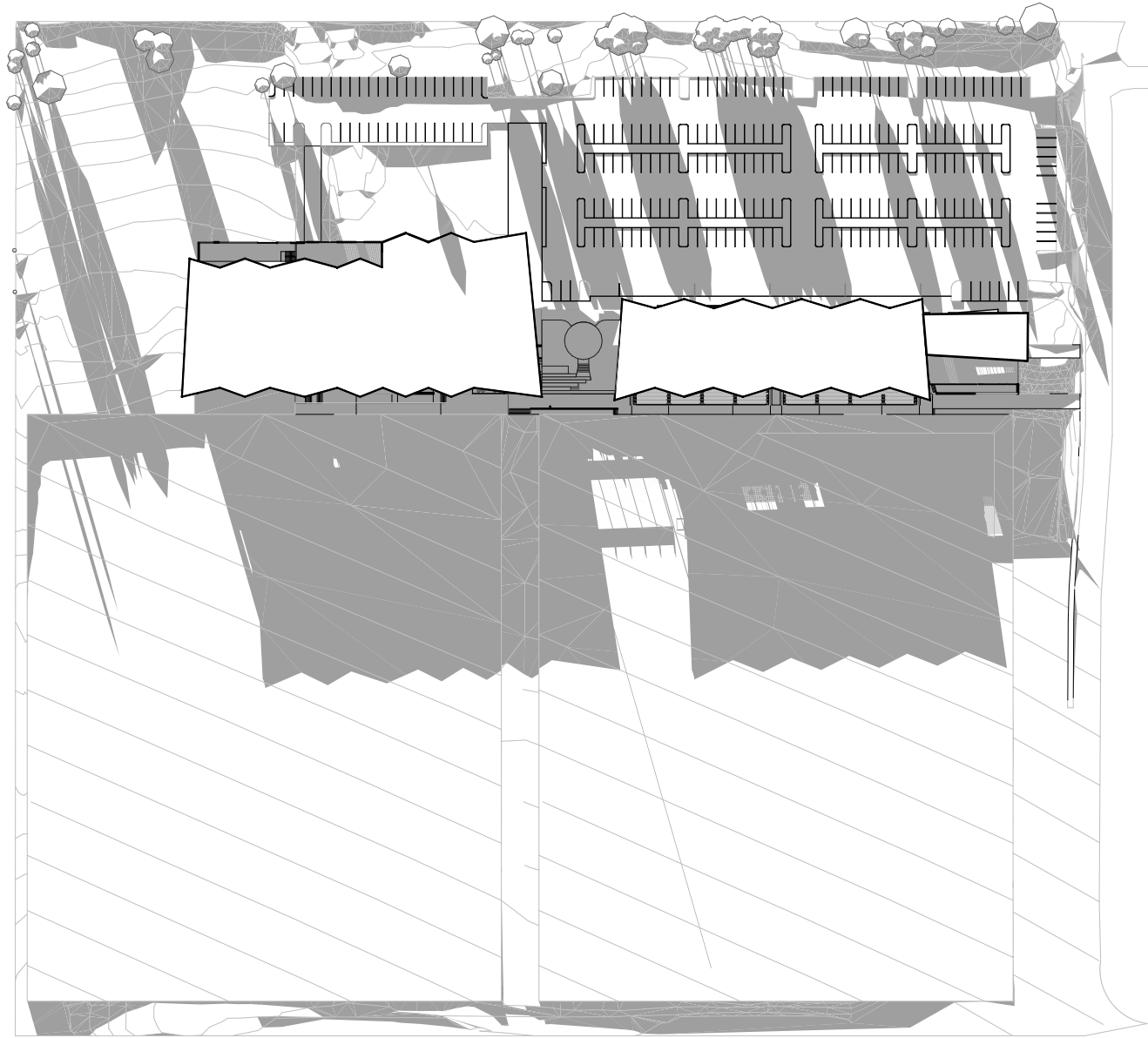
PARRAMATTA EELS  
1:750 @ A1  
SSDA - 'C'  
email@hbarch.com.au

A33

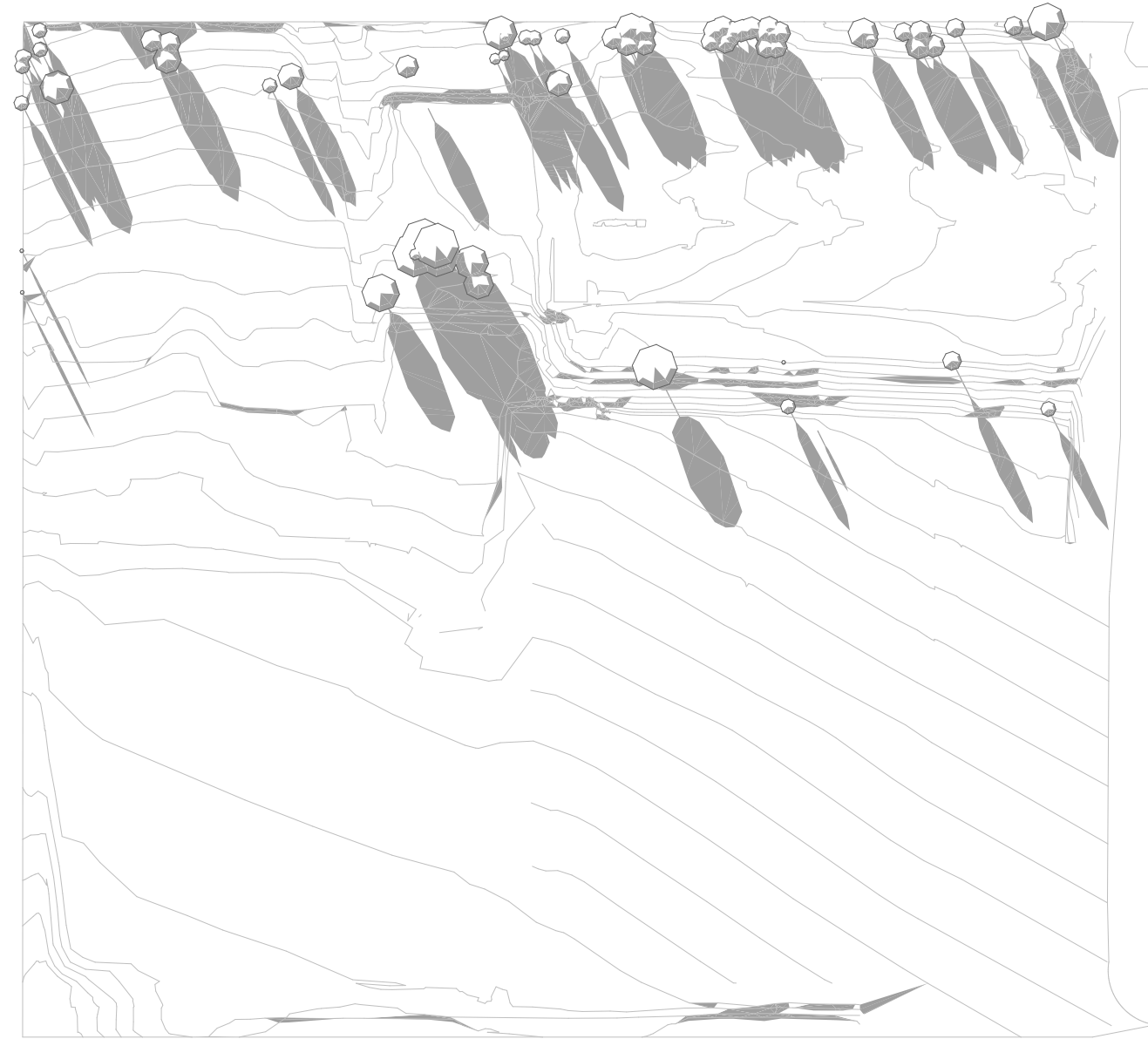




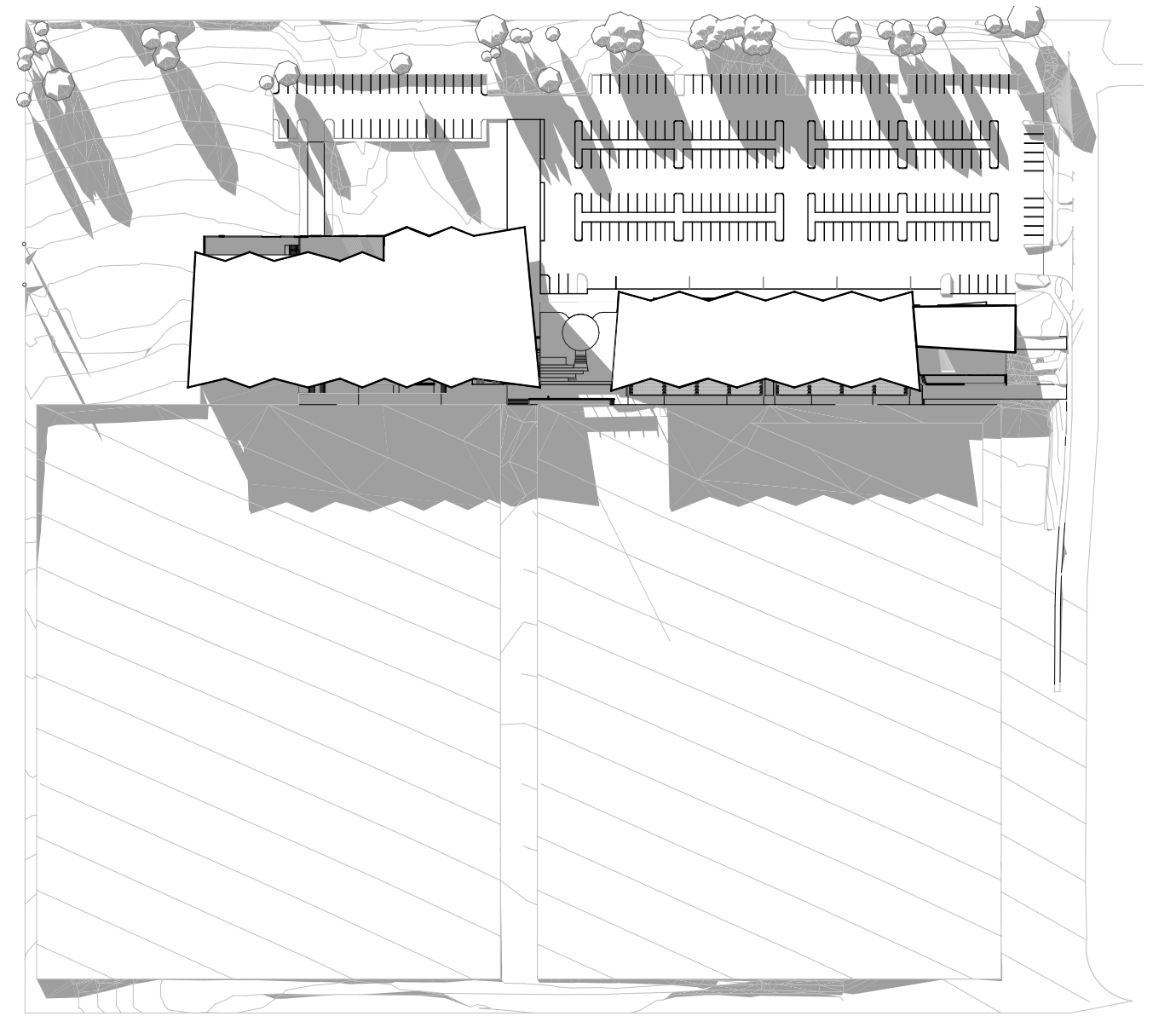
EXISTING SHADOW 9AM (22/06)



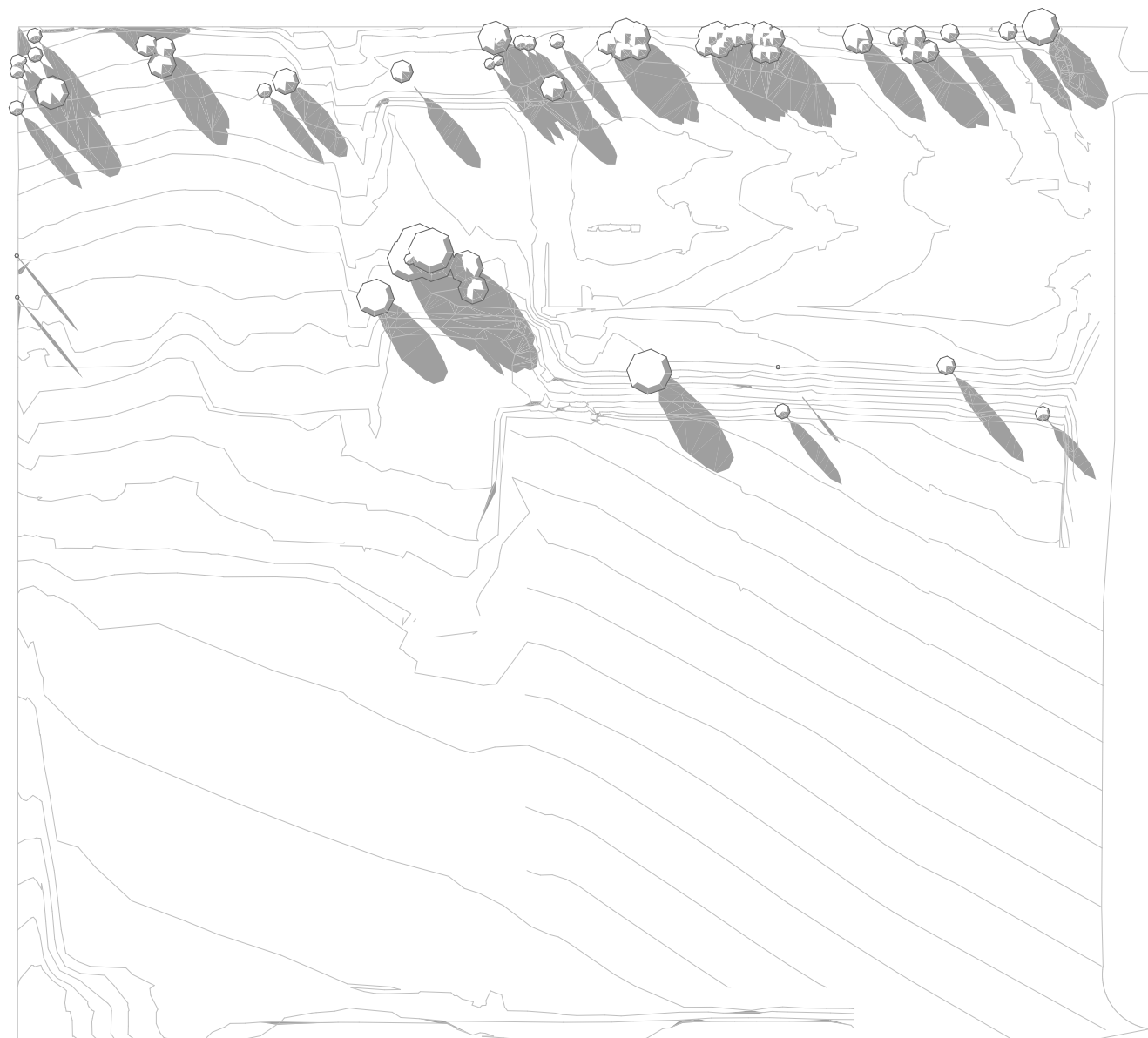
PROPOSED SHADOW 9AM (22/06)



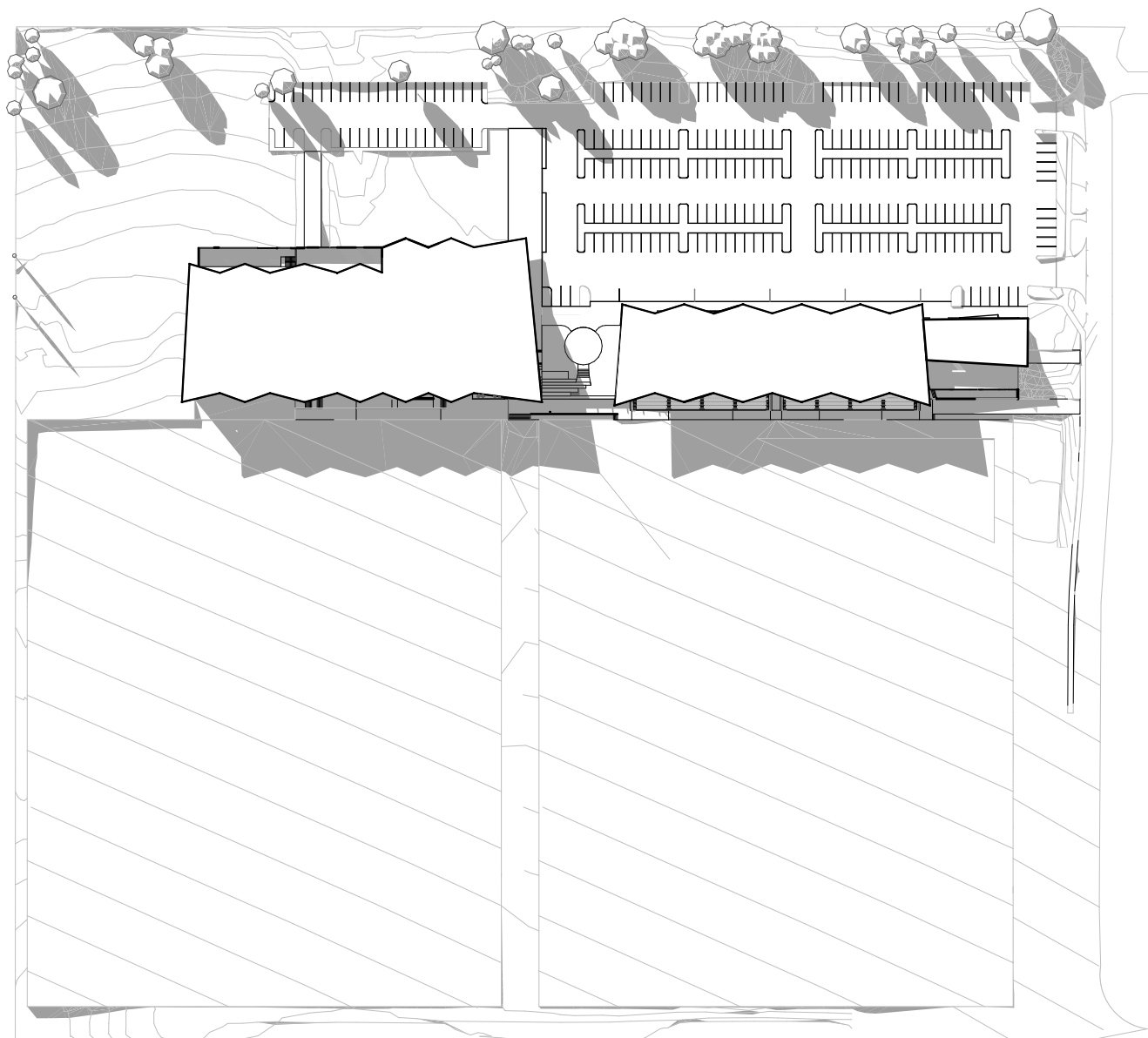
EXISTING SHADOW 10AM (22/06)



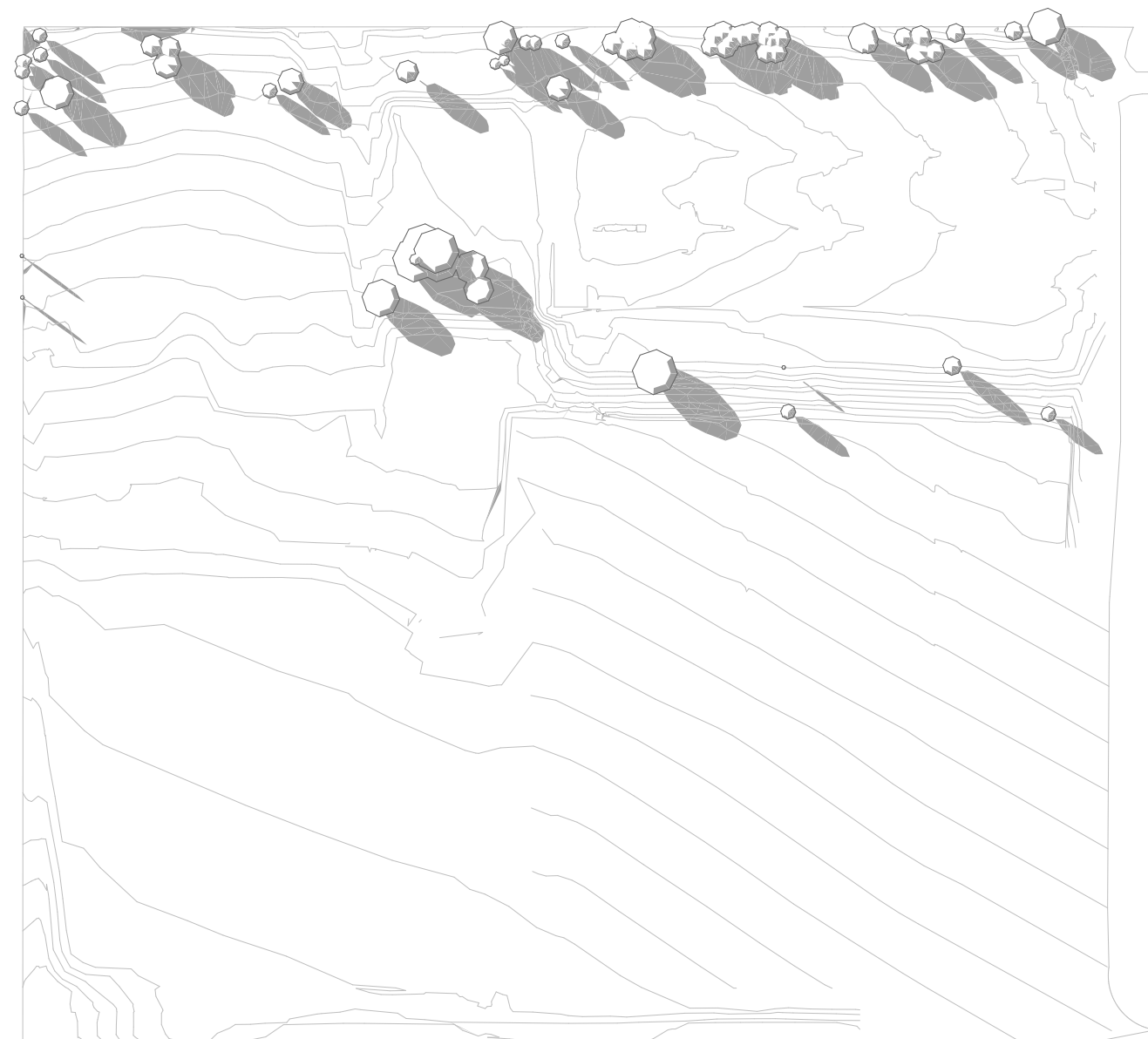
PROPOSED SHADOW 10AM (22/06)



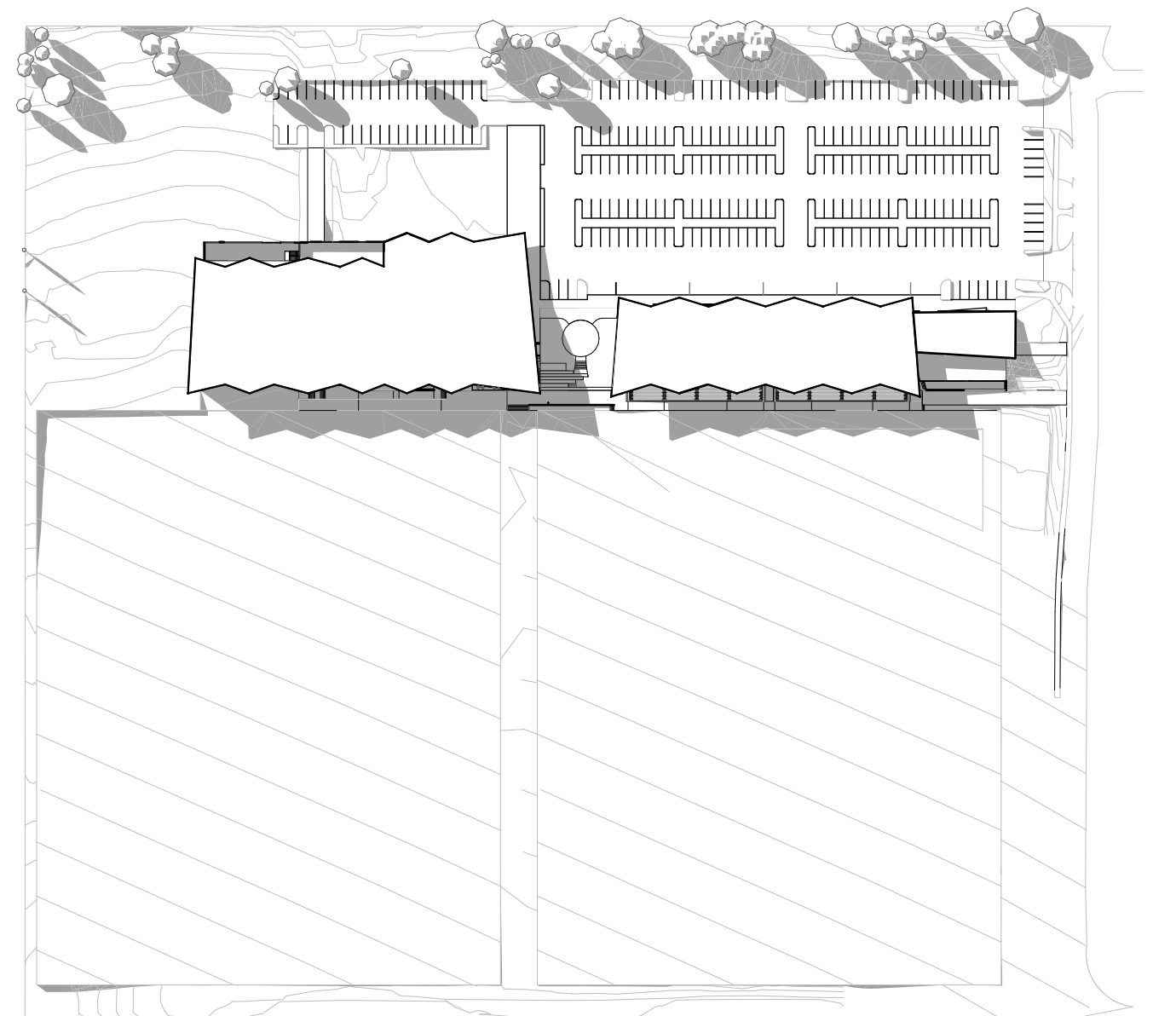
EXISTING SHADOW 11AM (22/06)



PROPOSED SHADOW 11AM (22/06)



EXISTING SHADOW 12PM (22/06)



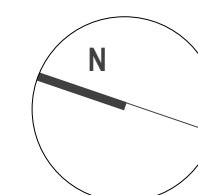
PROPOSED SHADOW 12PM (22/06)



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HB ARCH ARCHITECTURE & PLANNING

LEGEND



KELLYVILLE PARK PNRL EELS - CENTRE OF EXCELLENCE & COMMUNITY FACILITY

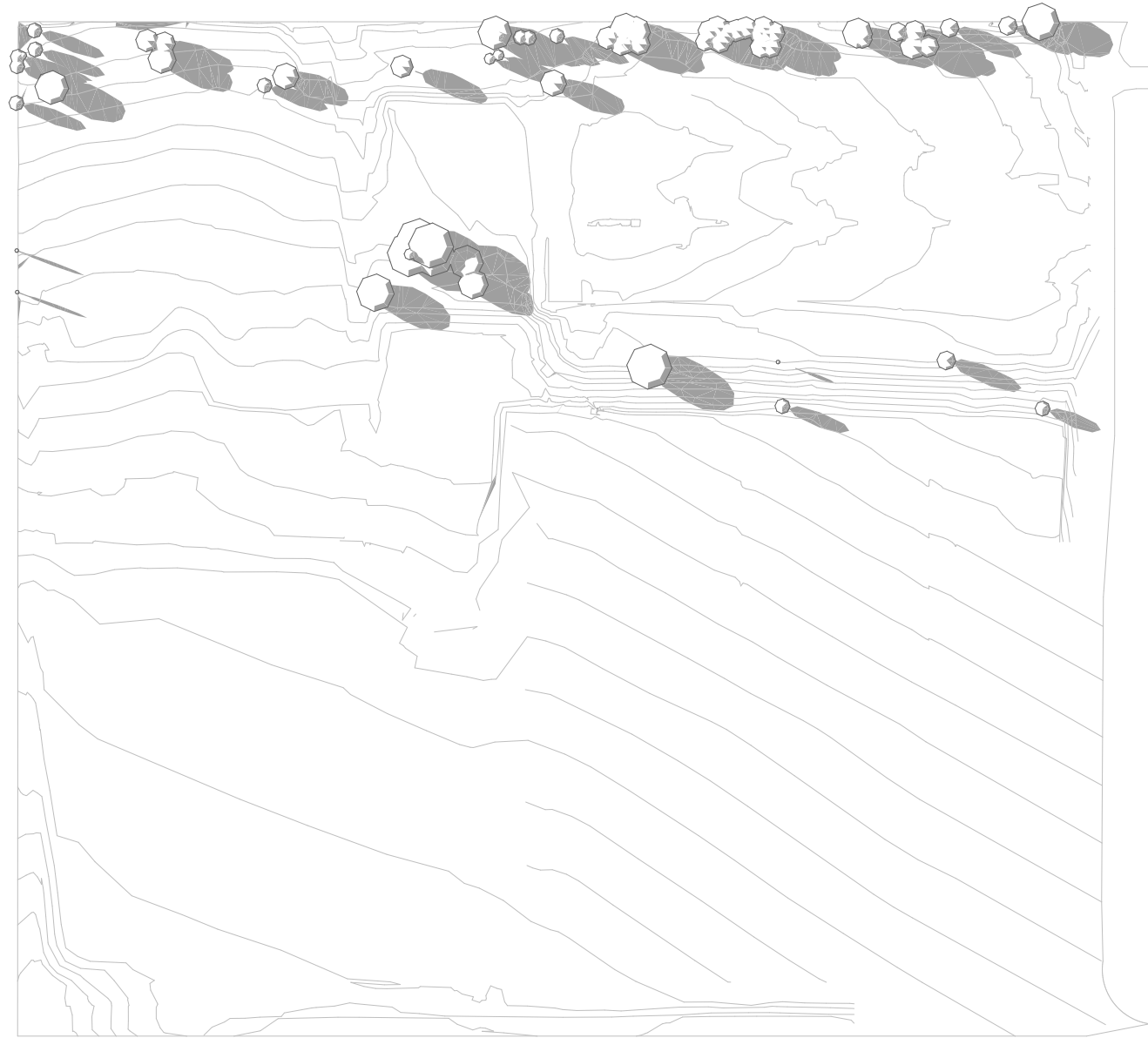
SHADOW PLANS 01 (JUNE 22)

Client  
Scale  
7/04/2022

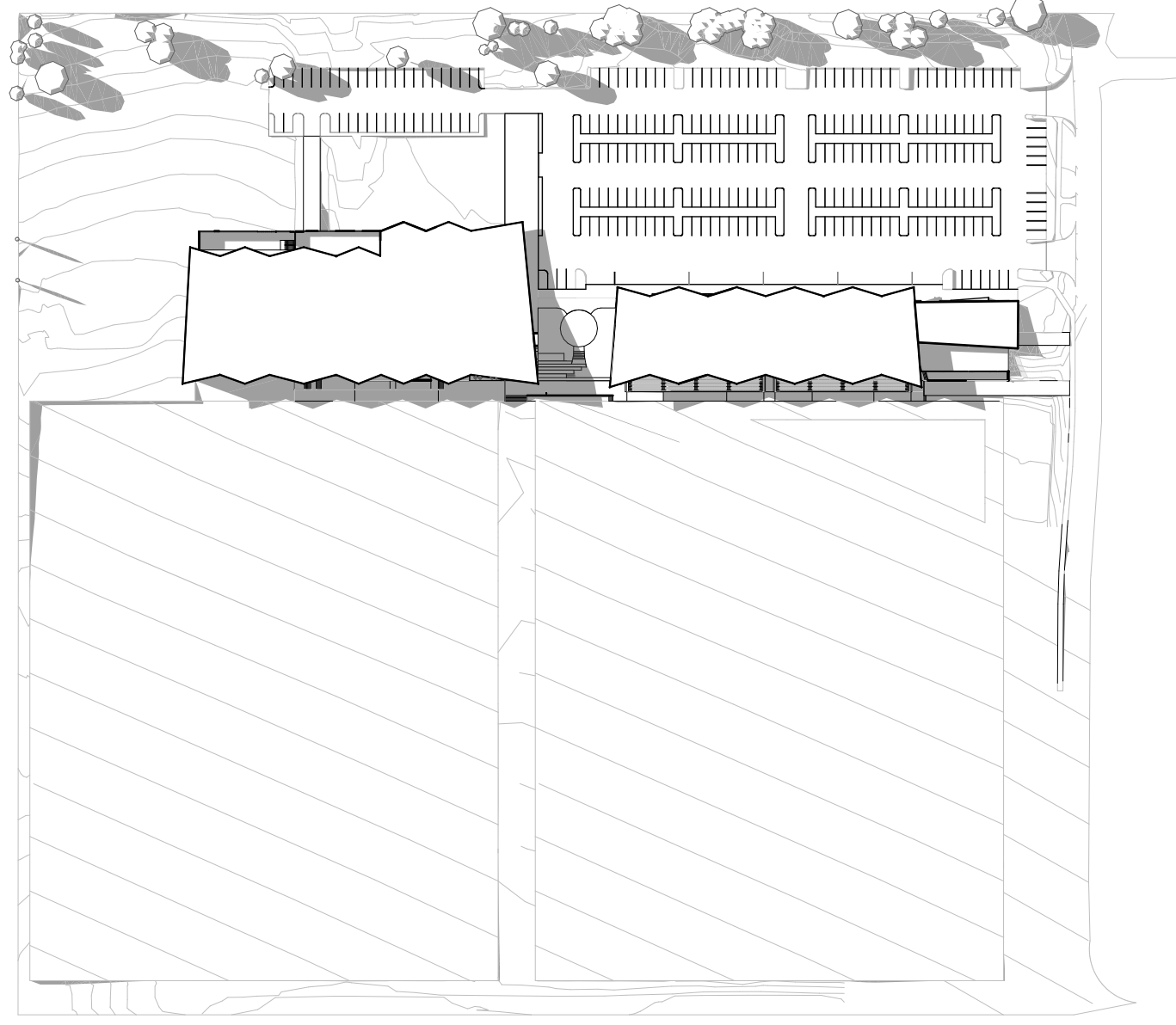
PARRAMATTA EELS  
1:1750 @ A1  
SSDA - 'C'  
email@hbarch.com.au

A34

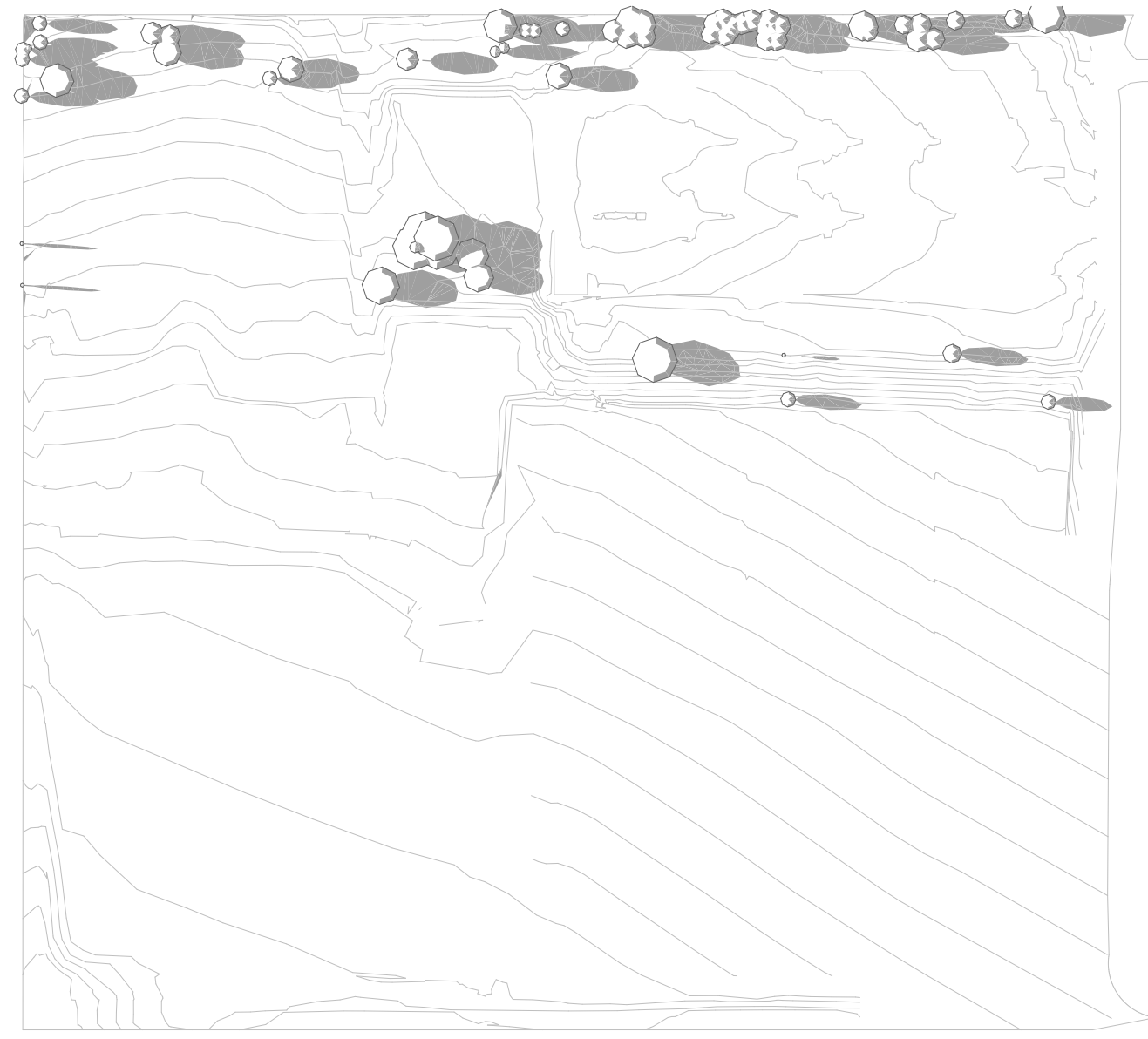




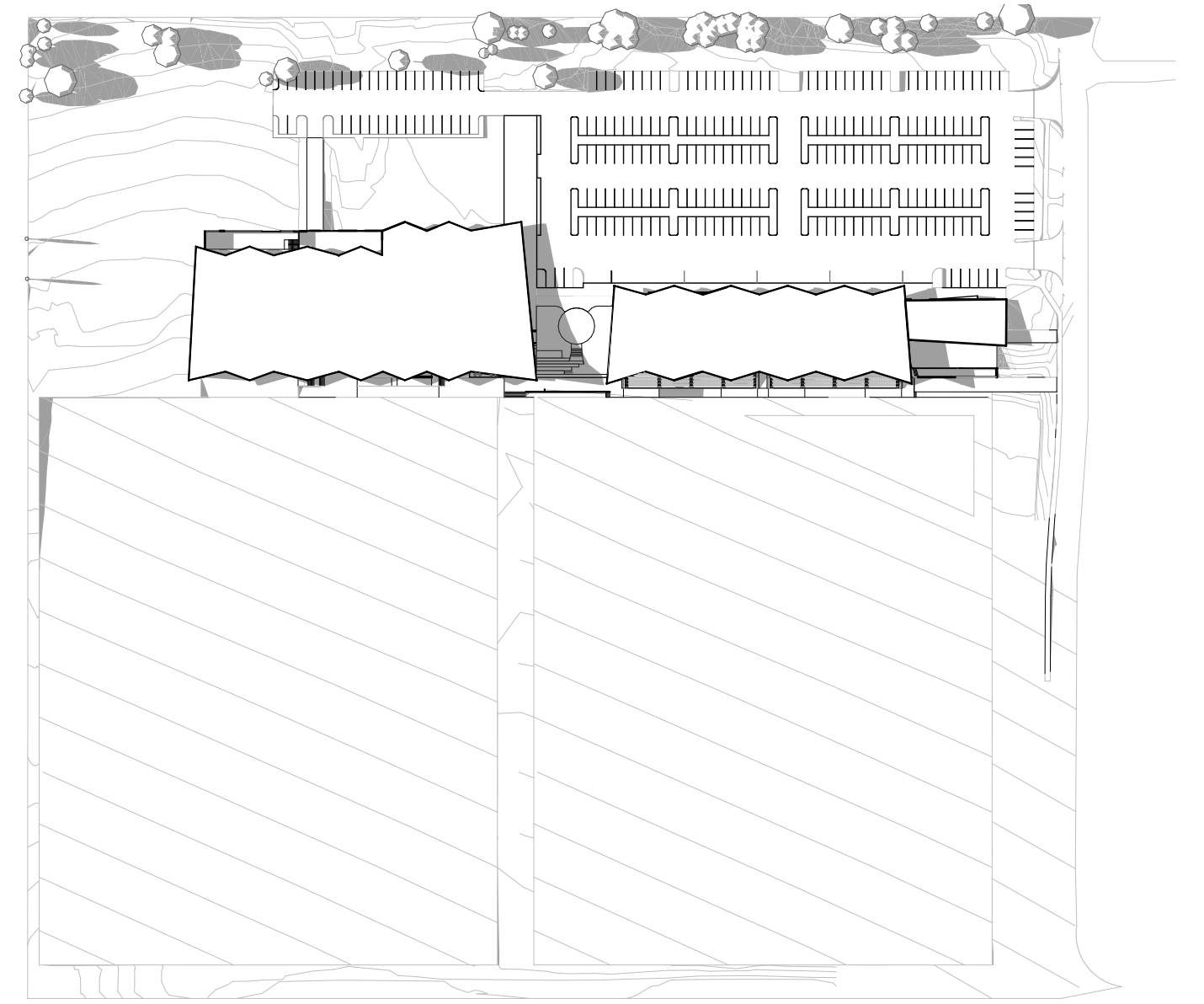
EXISTING SHADOW 1PM (22/06)



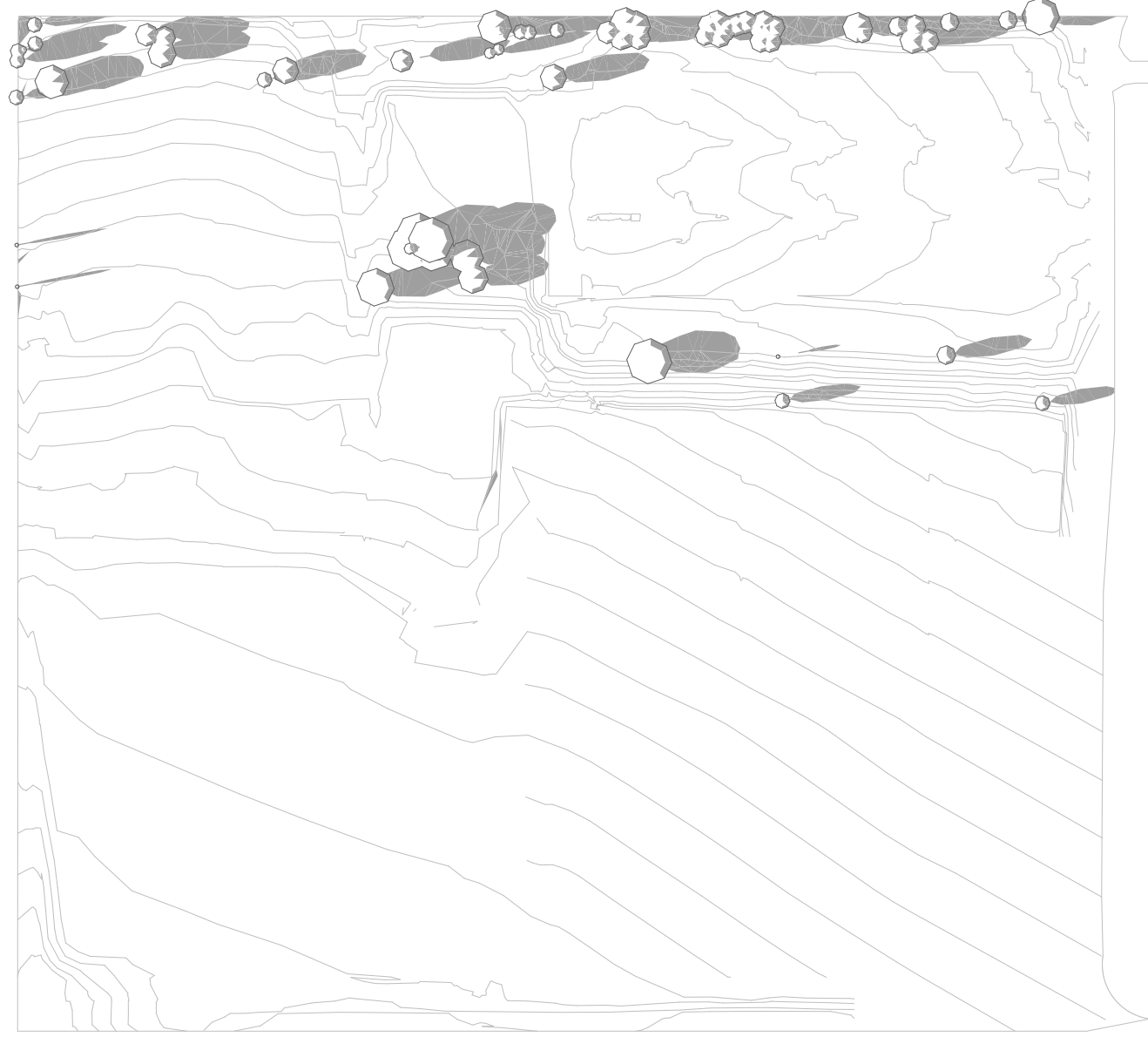
PROPOSED SHADOW 1PM (22/06)



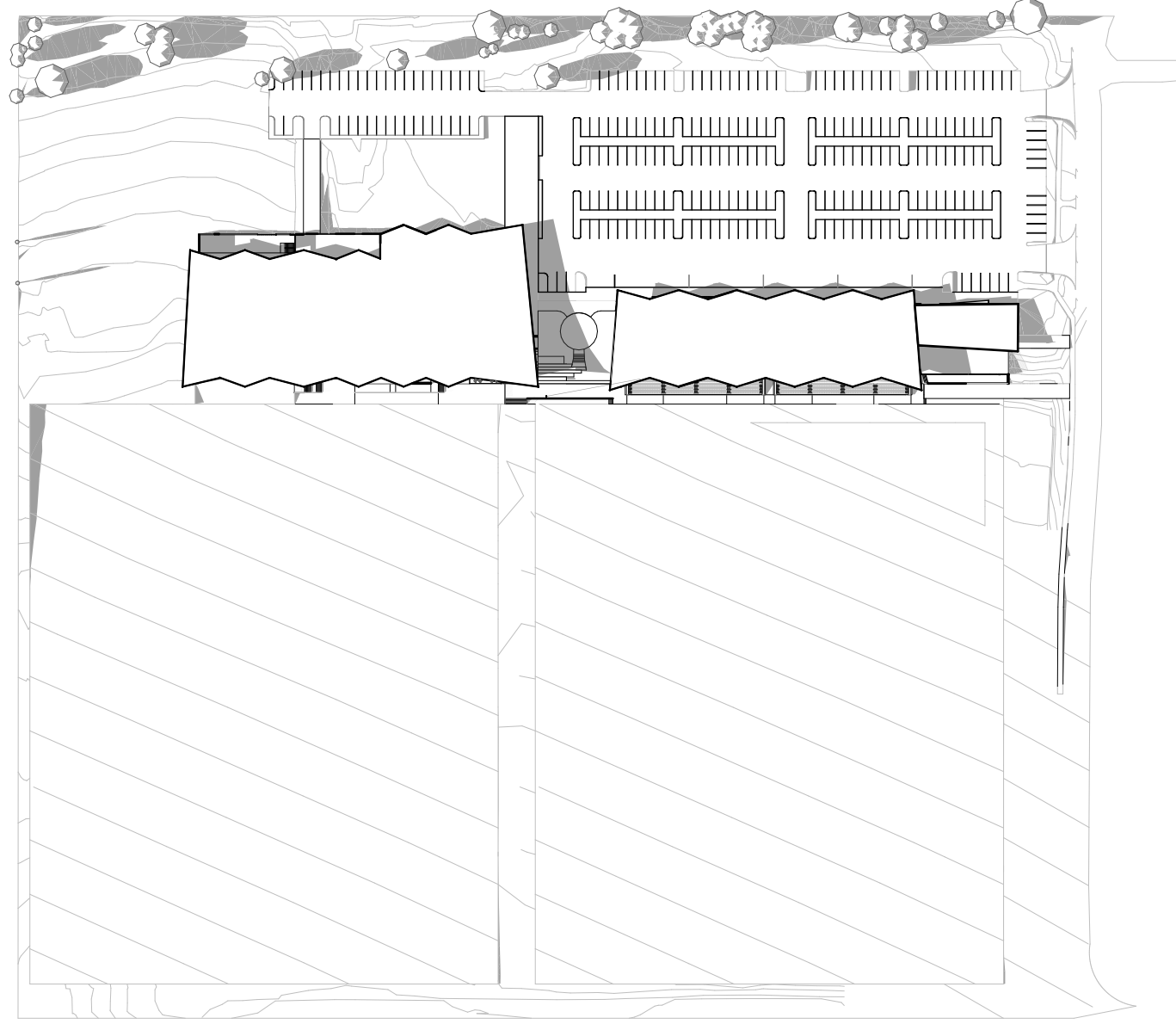
EXISTING SHADOW 2PM (22/06)



PROPOSED SHADOW 2PM (22/06)



EXISTING SHADOW 3PM (22/06)



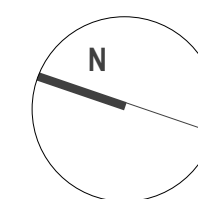
PROPOSED SHADOW 3PM (22/06)



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HB ARCH ARCHITECTURE & PLANNING

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KELLYVILLE PARK PNRL EELS - CENTRE OF  
EXCELLENCE & COMMUNITY FACILITY

SHADOW PLANS 02 (JUNE 22)

Client  
Scale  
7/04/2022

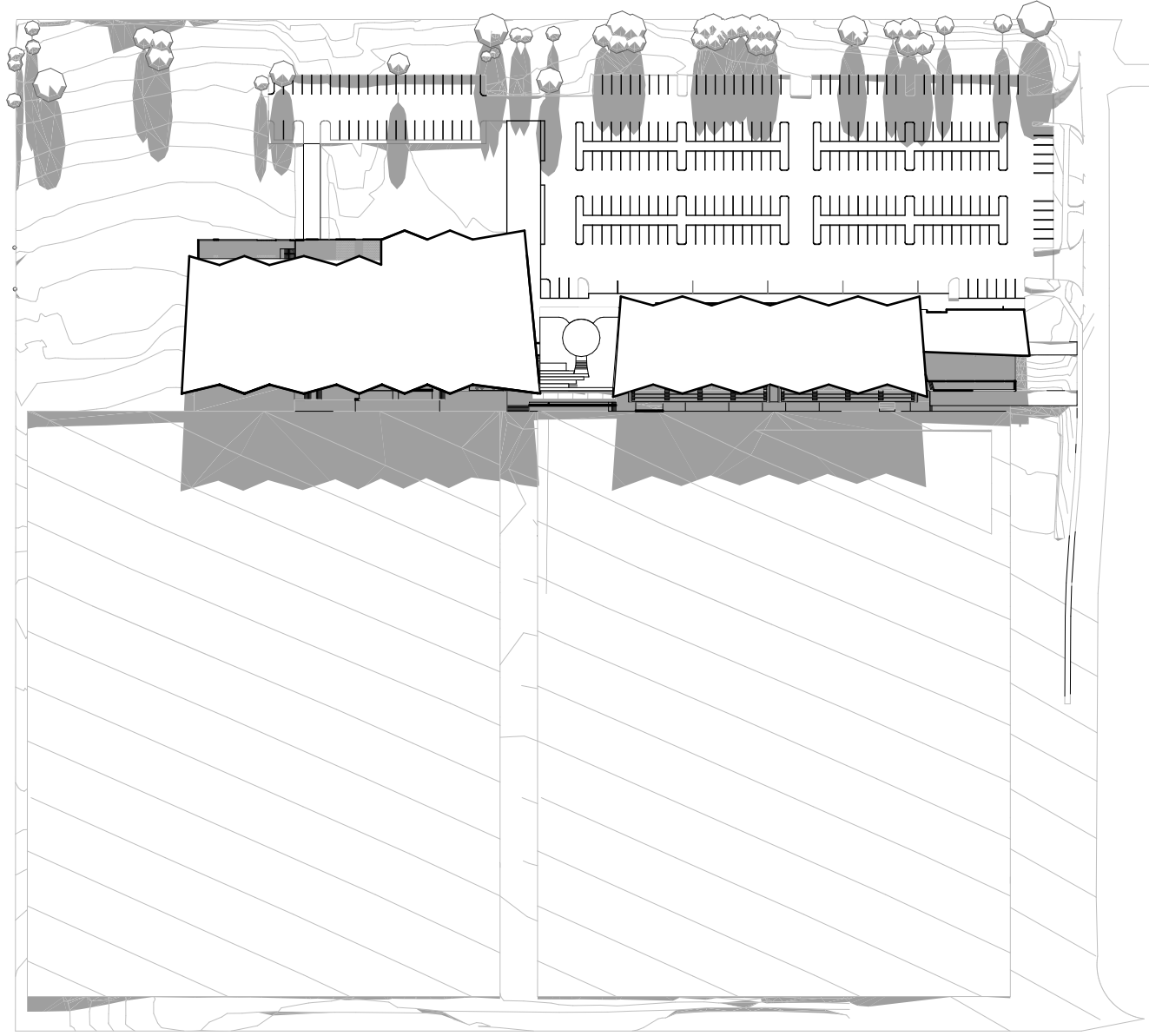
PARRAMATTA EELS  
1:1750 @ A1  
SSDA - 'C'  
email@hbarch.com.au

A35

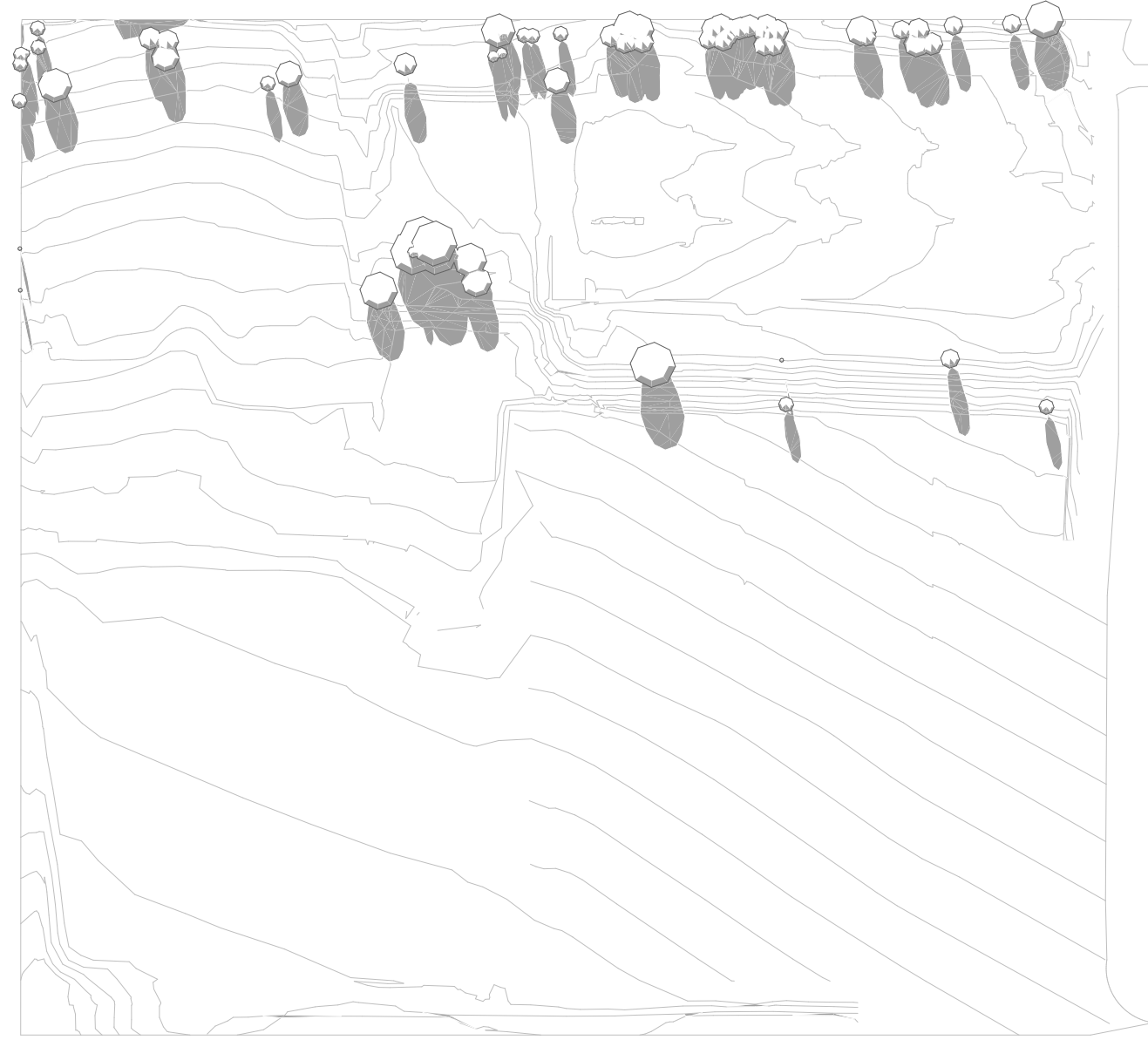




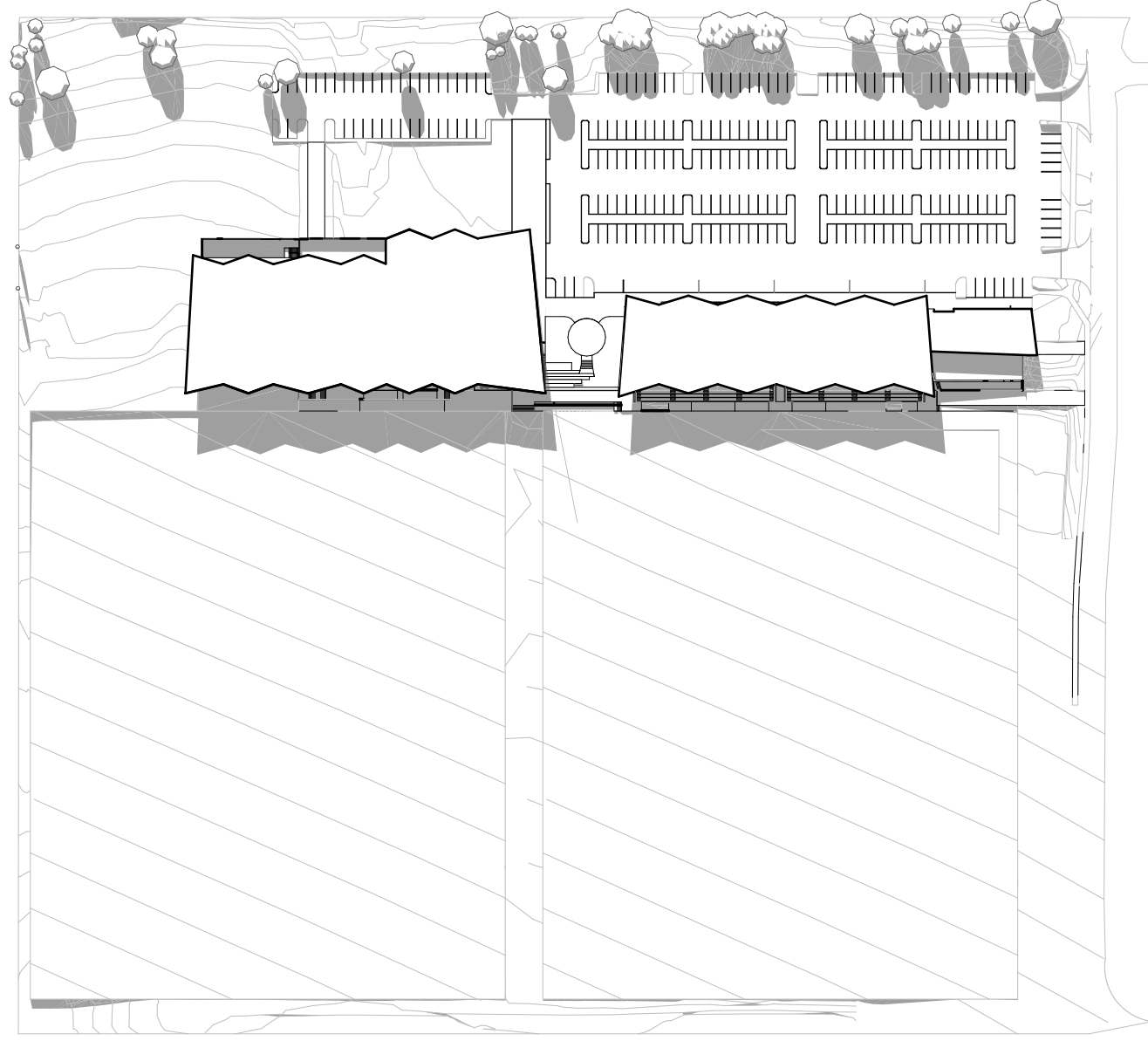
EXISTING SHADOW 9AM (22/9)



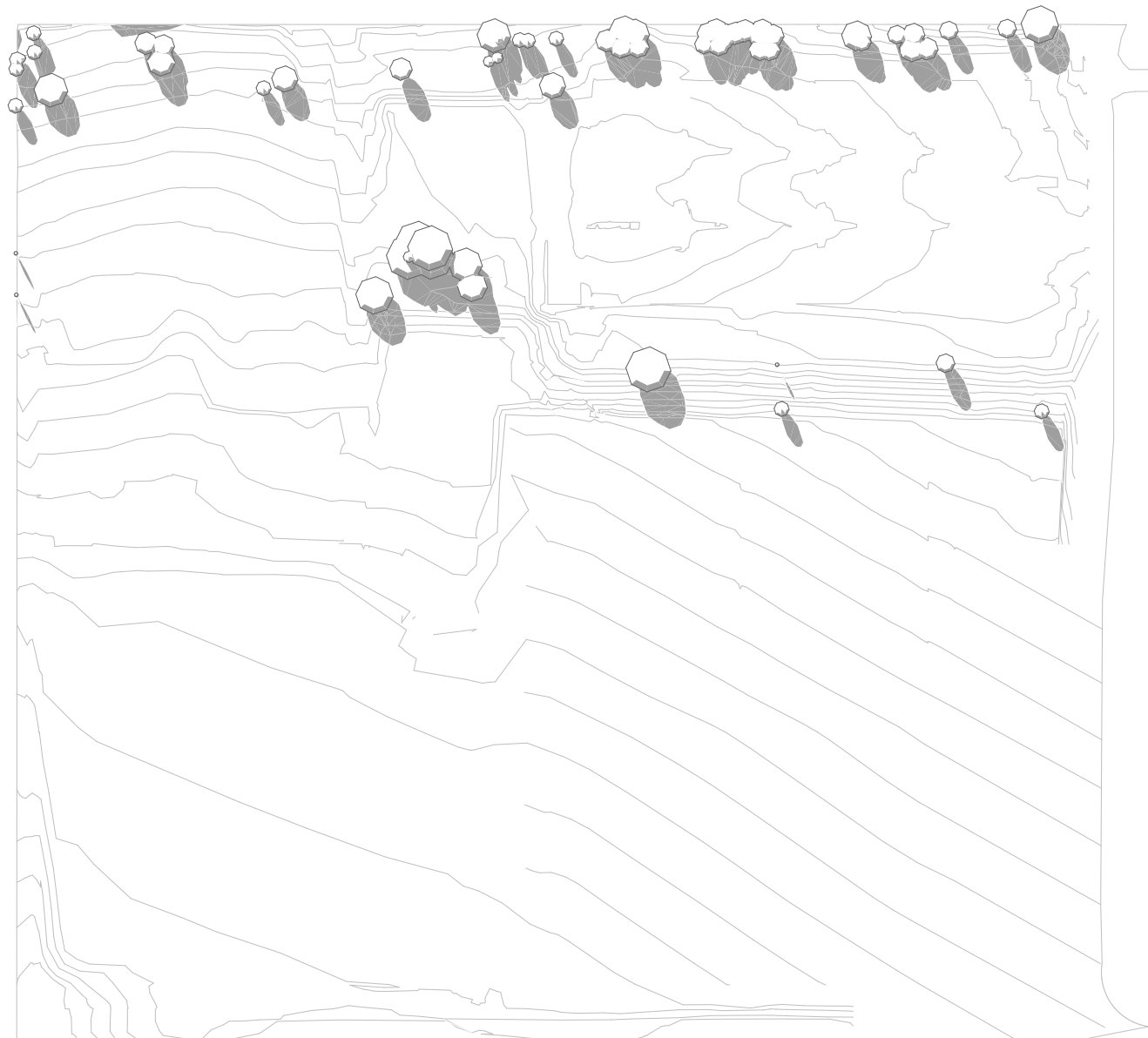
PROPOSED SHADOW 9AM (22/9)



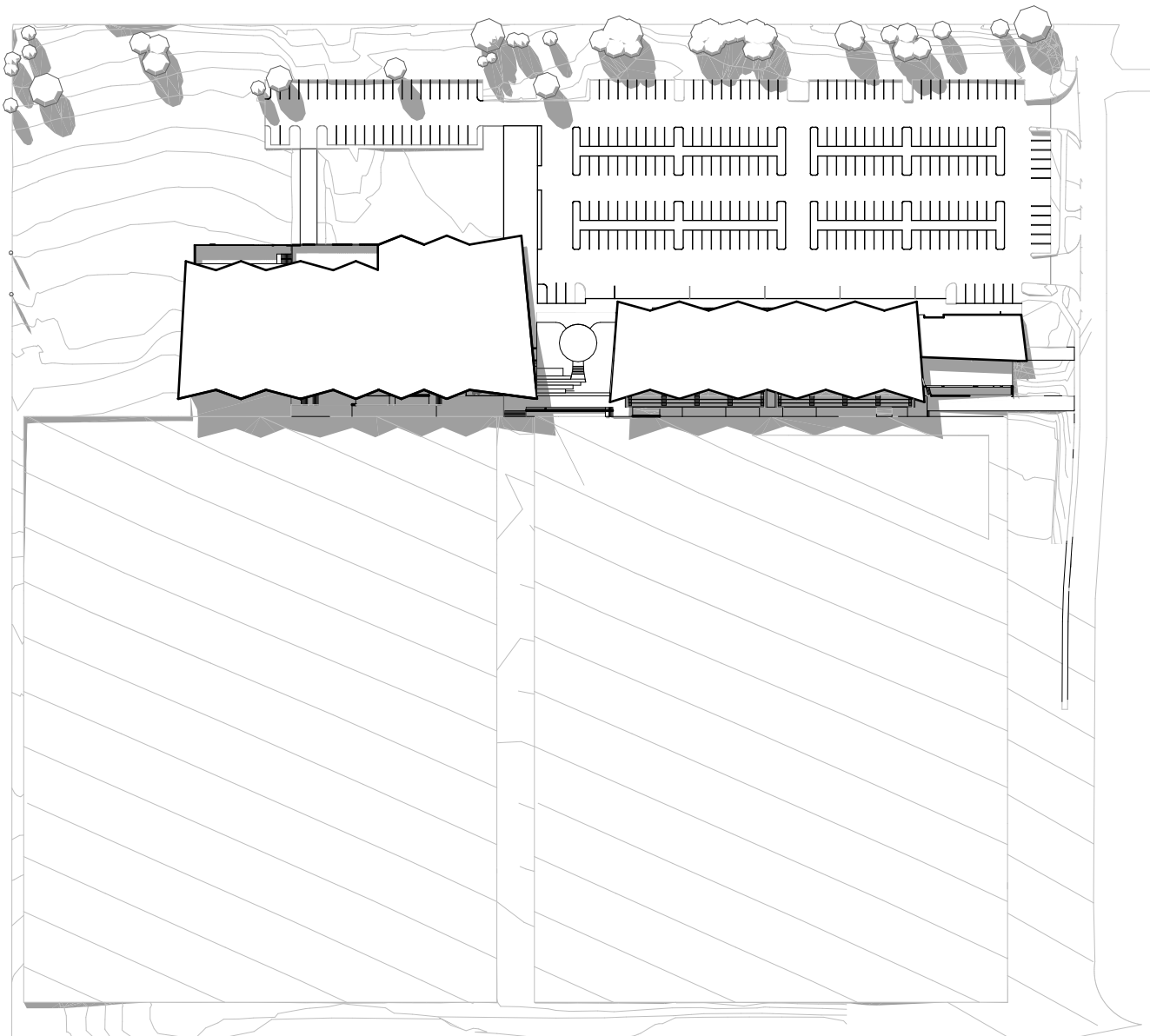
EXISTING SHADOW 10AM (22/09)



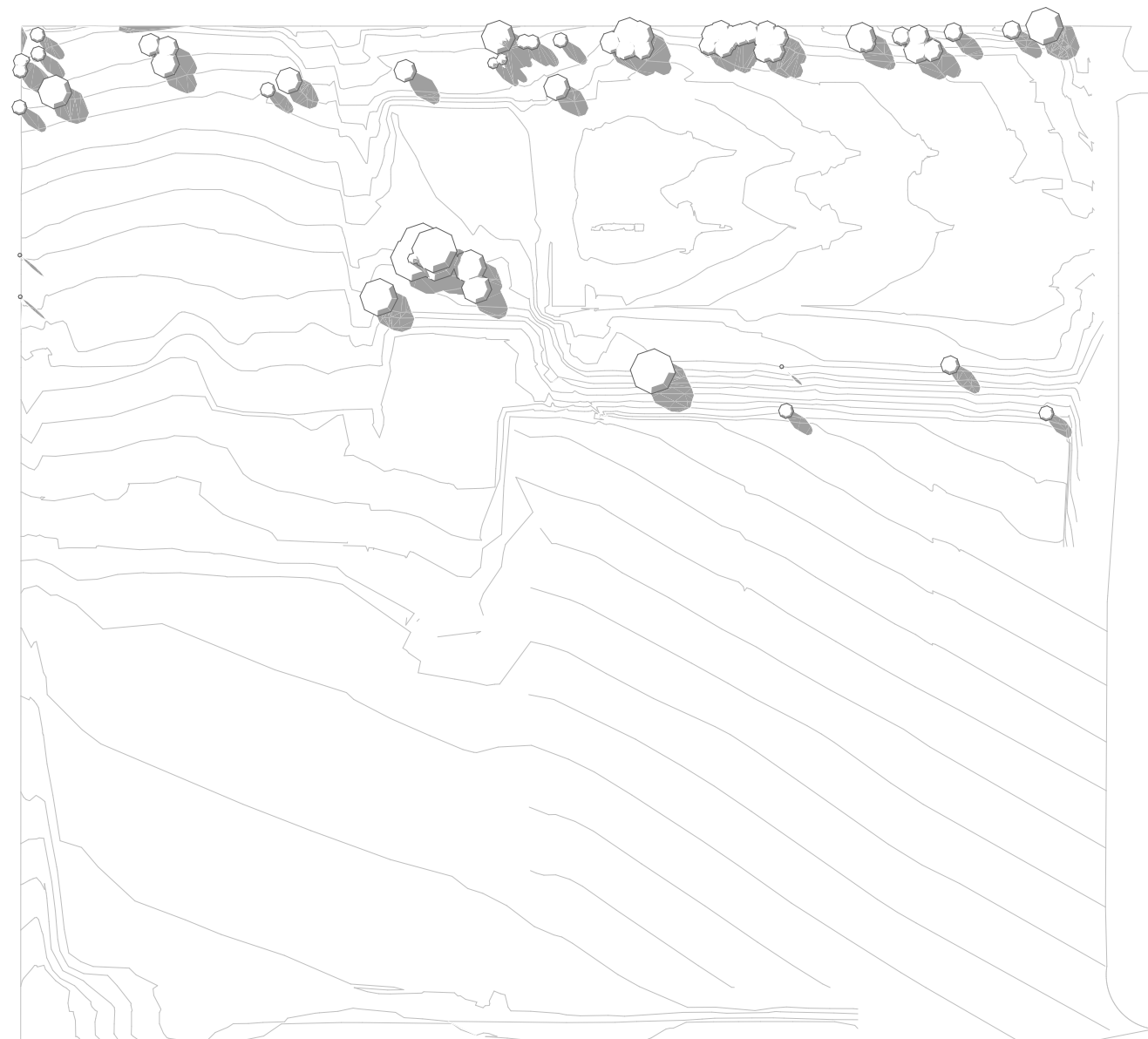
PROPOSED SHADOW 10AM (22/9)



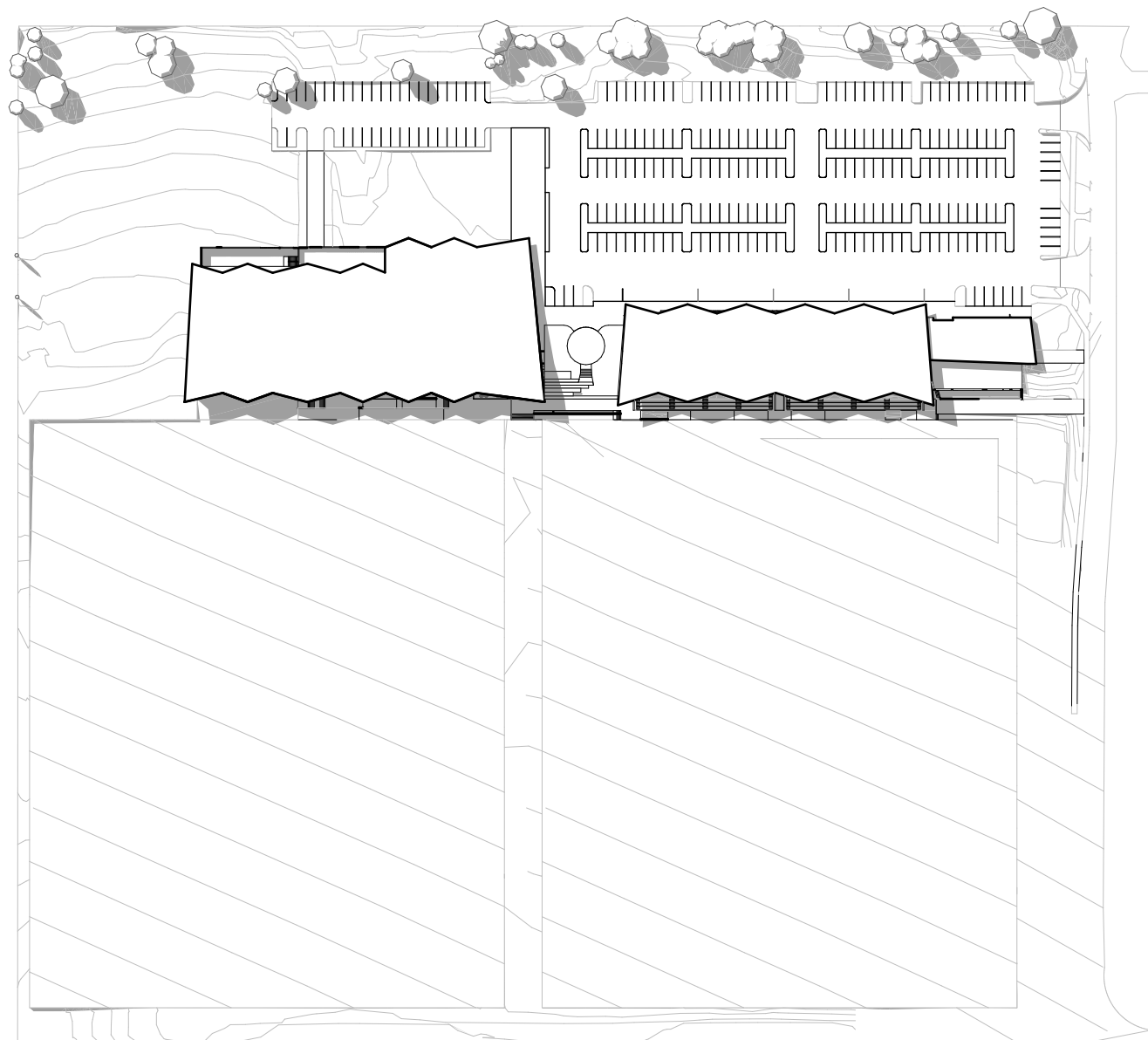
EXISTING SHADOW 11AM (22/09)



PROPOSED SHADOW 11AM (22/9)



EXISTING SHADOW 12PM (22/09)



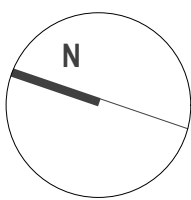
PROPOSED SHADOW 12PM (22/9)



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HB ARCH ARCHITECTURE & PLANNING

LEGEND



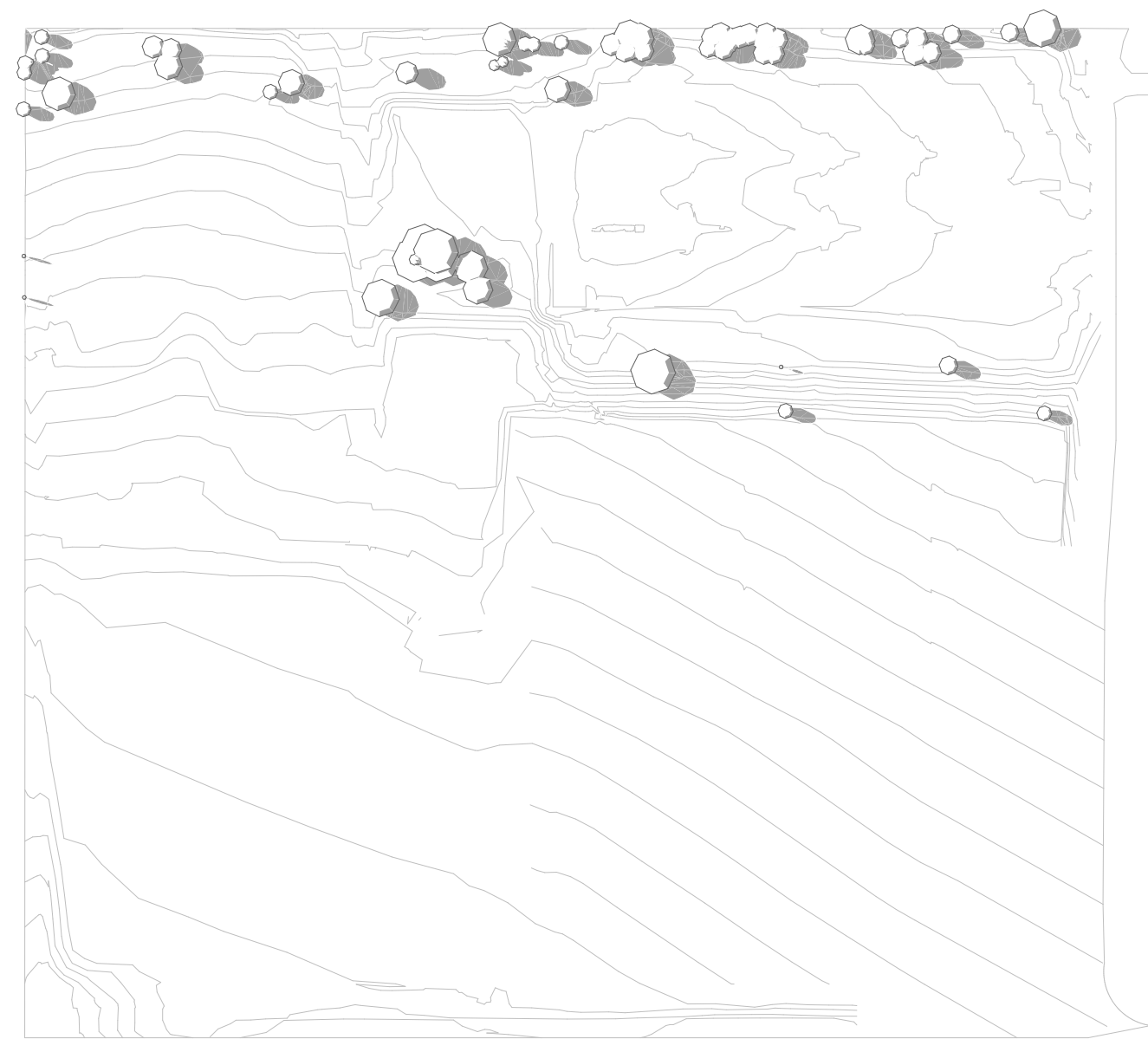
KELLYVILLE PARK PNRL EELS - CENTRE OF  
EXCELLENCE & COMMUNITY FACILITY

SHADOW PLANS 03 EQUINOX

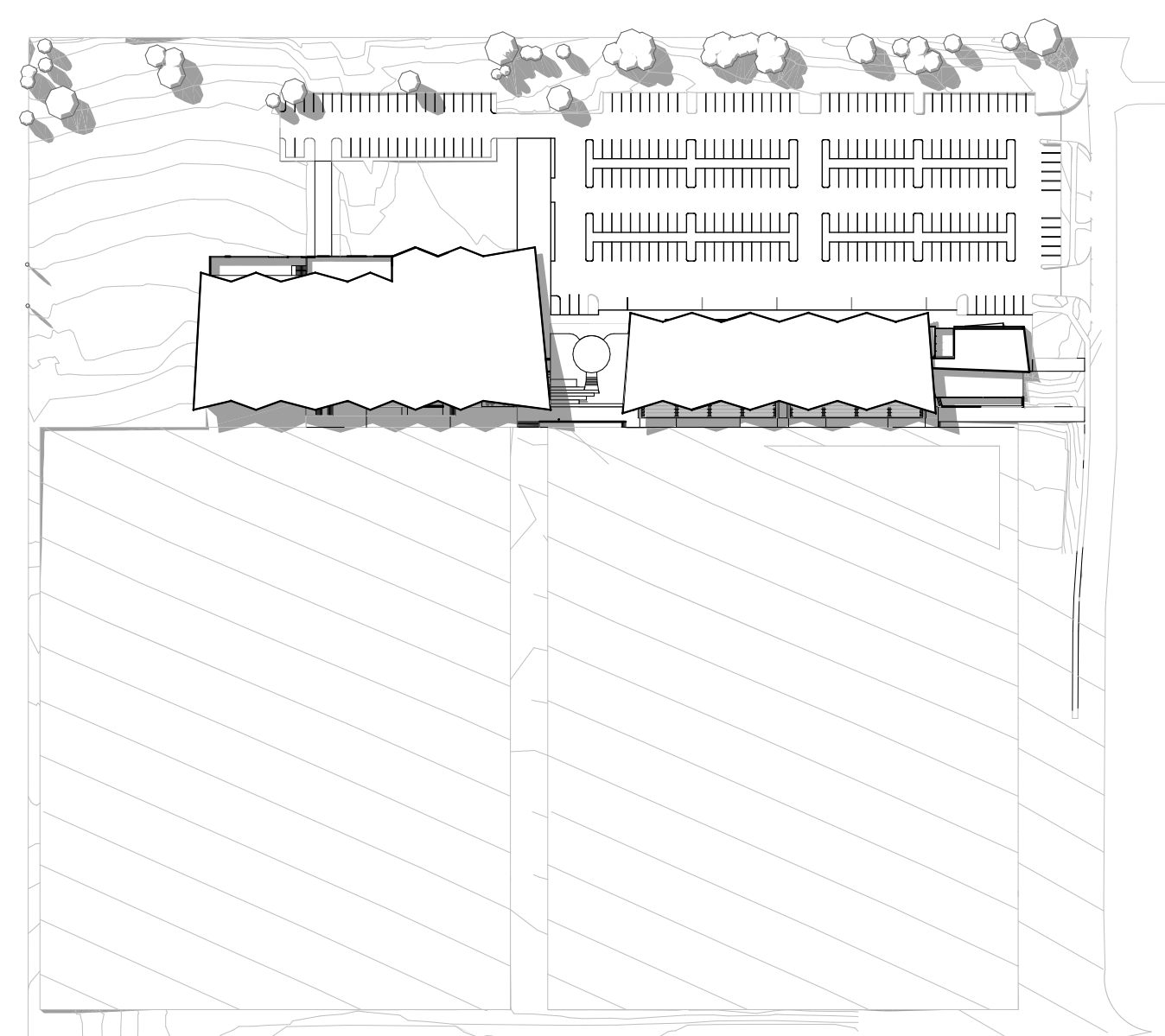
Client PARRAMATTA EELS  
Scale 1:1750 @ A1  
7/04/2022 SSDA - 'C'  
email@hbarch.com.au

A36

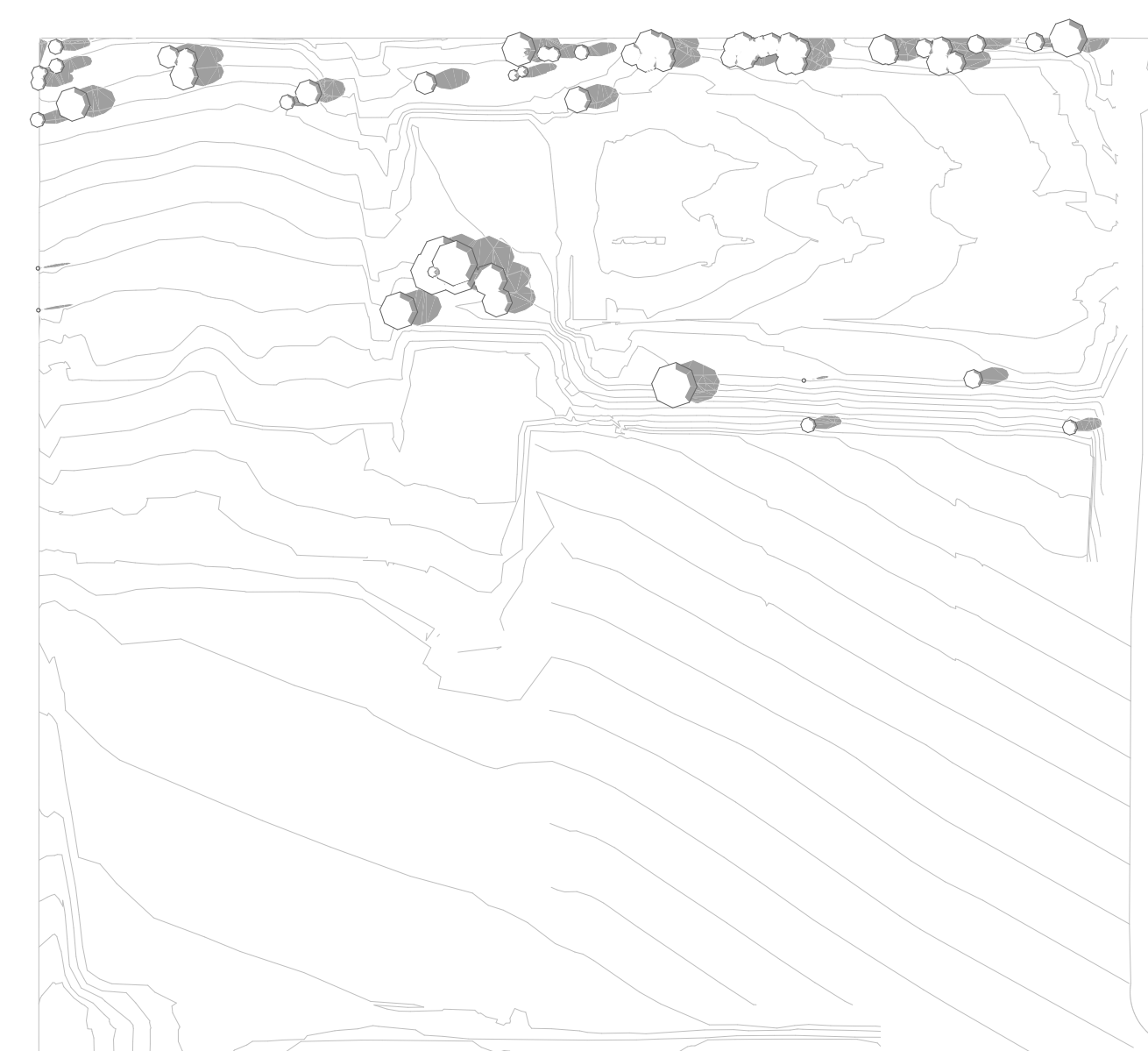




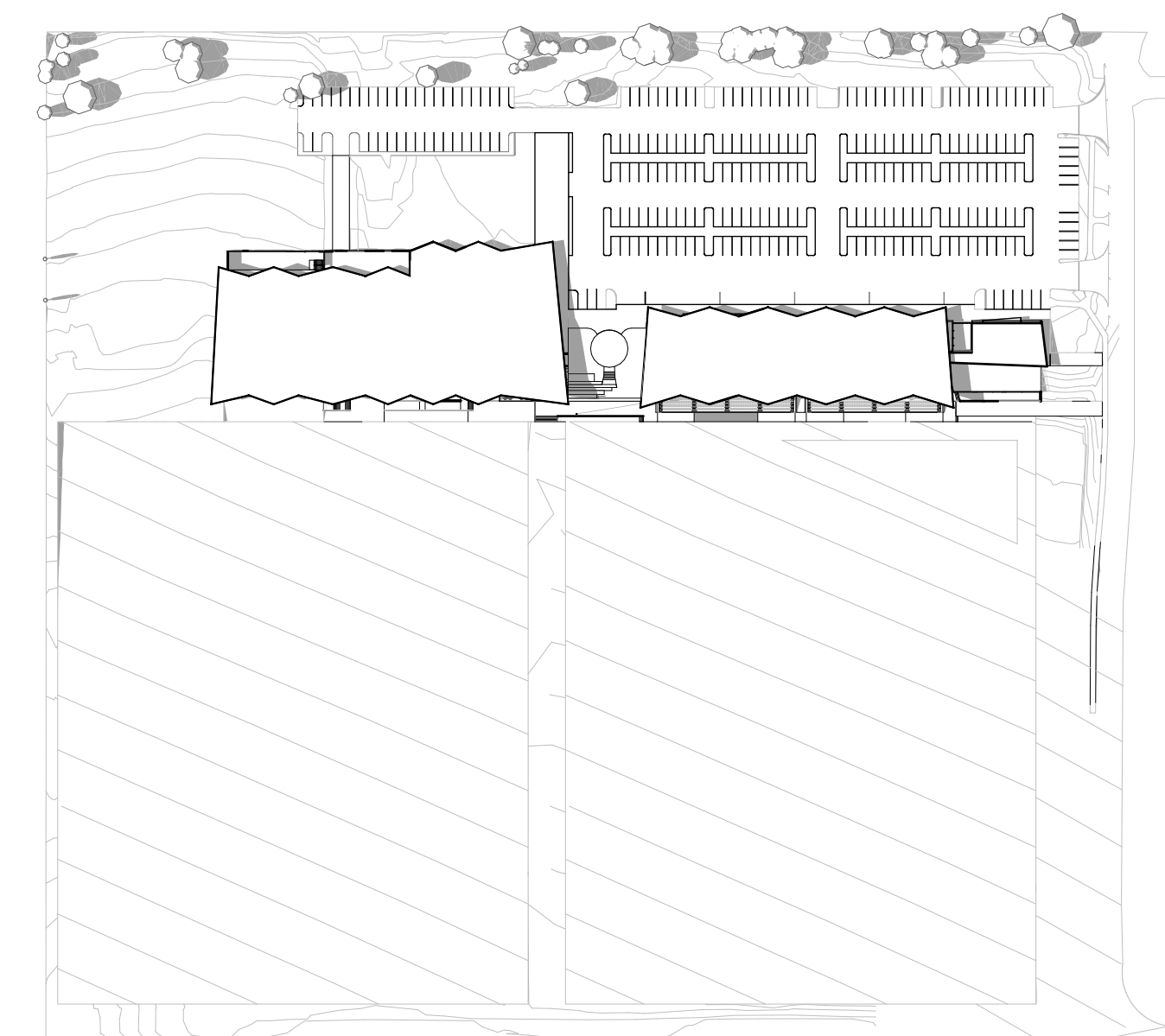
EXISTING SHADOW 1PM (22/09)



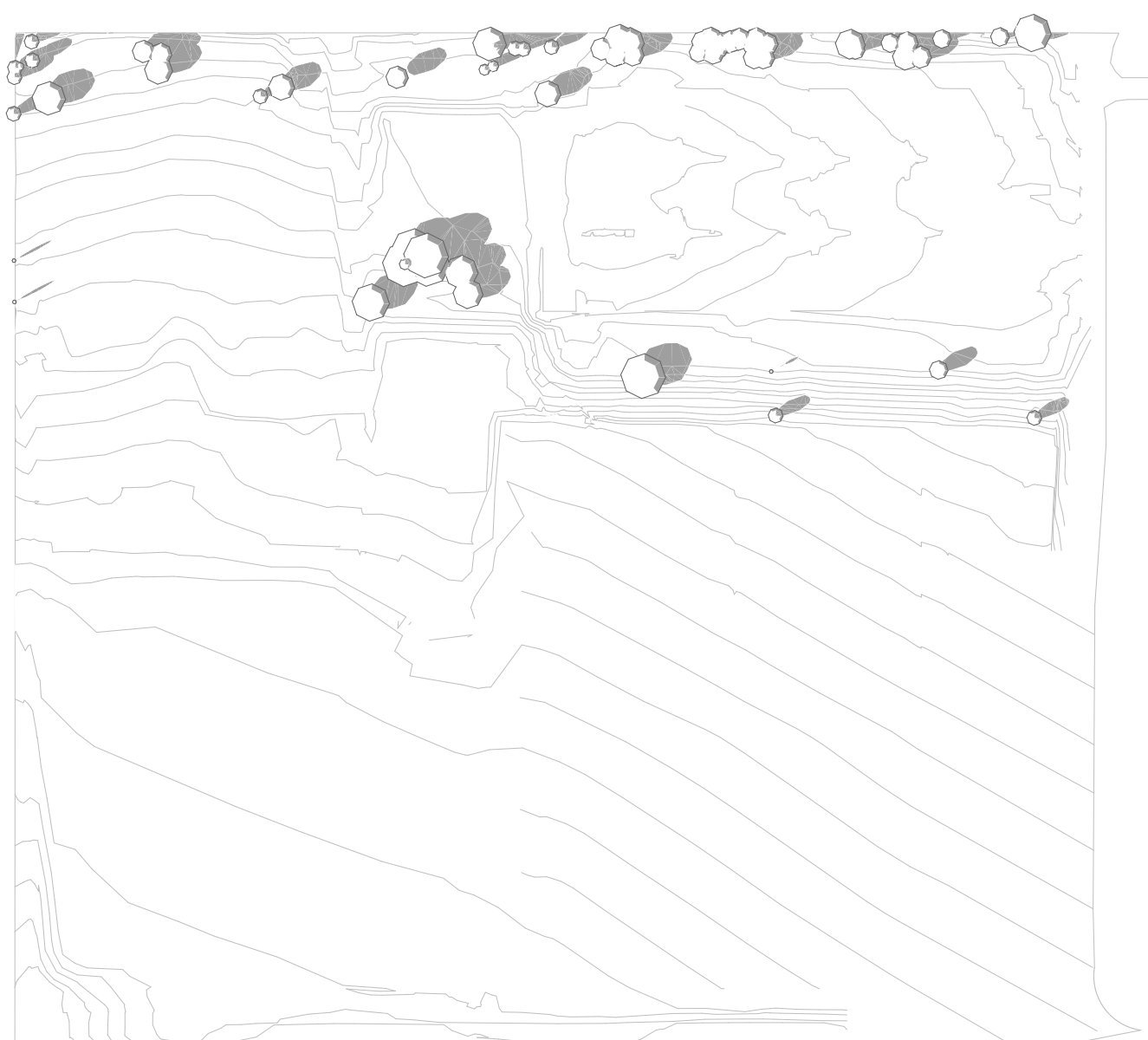
PROPOSED SHADOW 1PM (22/9)



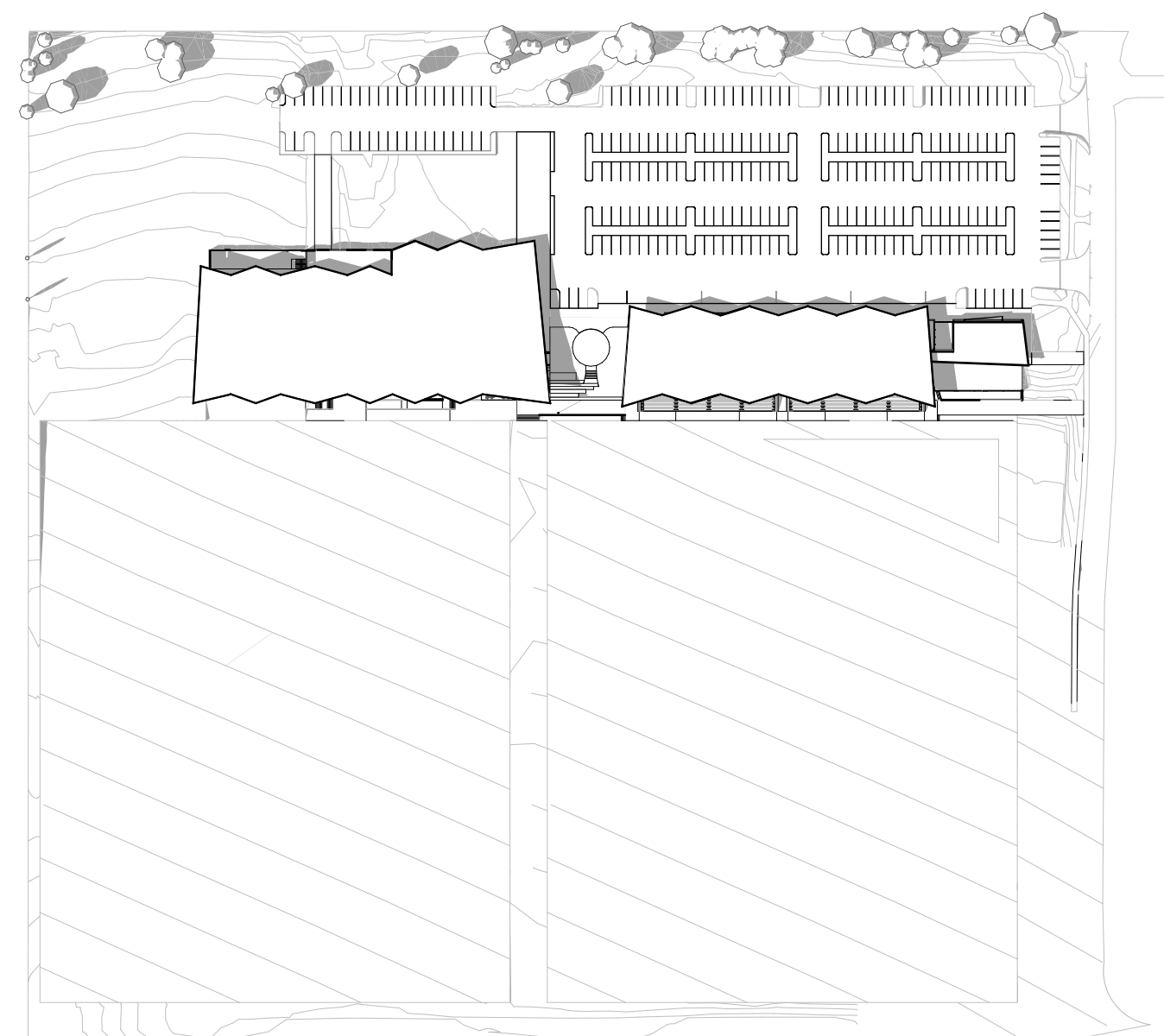
EXISTING SHADOW 2PM (22/09)



PROPOSED SHADOW 2PM (22/9)



EXISTING SHADOW 3PM (22/09)



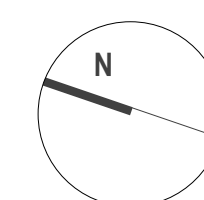
PROPOSED SHADOW 3PM (22/9)



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HB ARCH ARCHITECTURE & PLANNING

LEGEND



KELLYVILLE PARK PNRL EELS - CENTRE OF  
EXCELLENCE & COMMUNITY FACILITY

SHADOW PLANS 04 EQUINOX

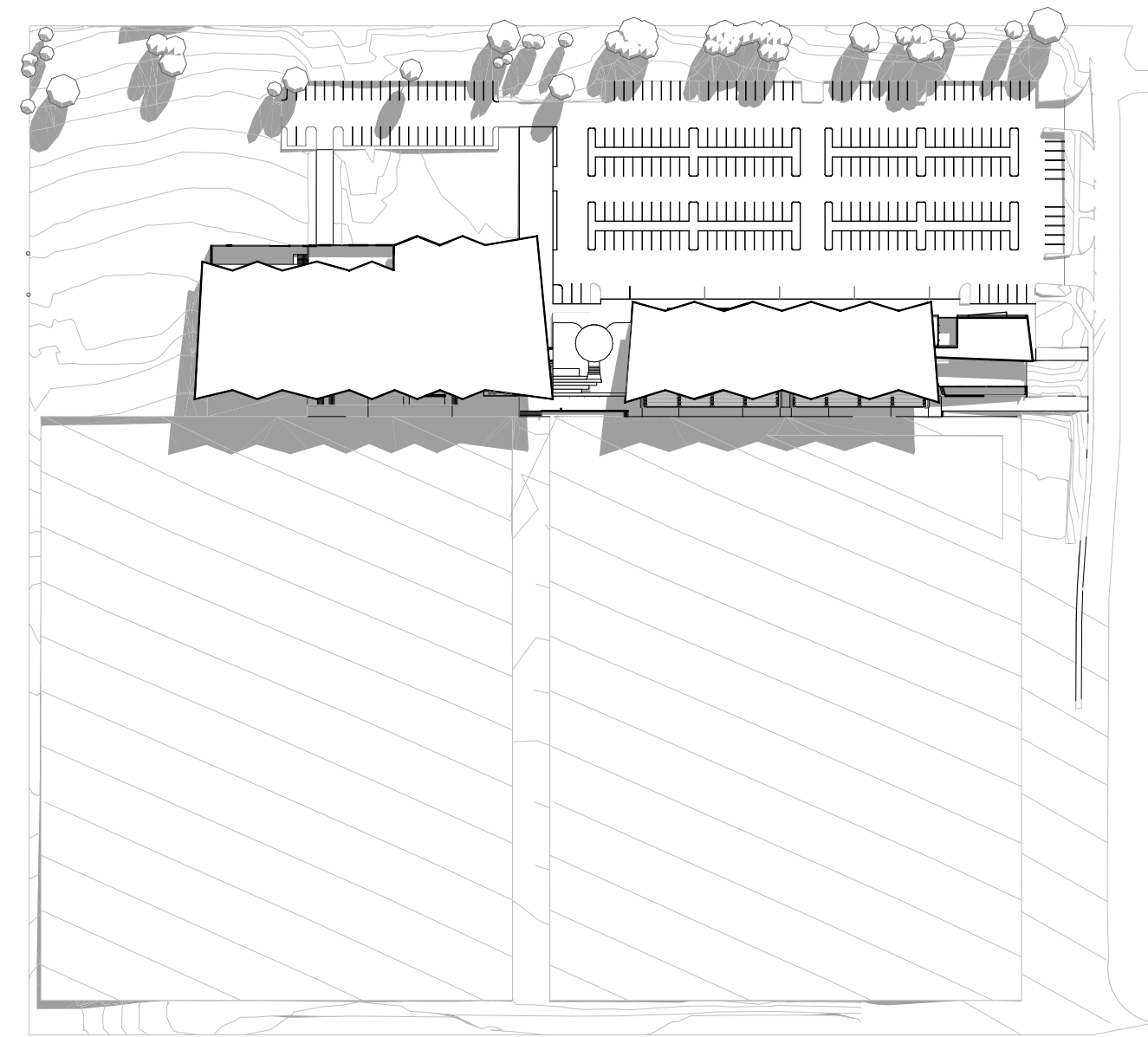
Client PARRAMATTA EELS  
Scale 1:1750 @ A1  
7/04/2022 SSDA - 'C'  
email@hbarch.com.au

A37

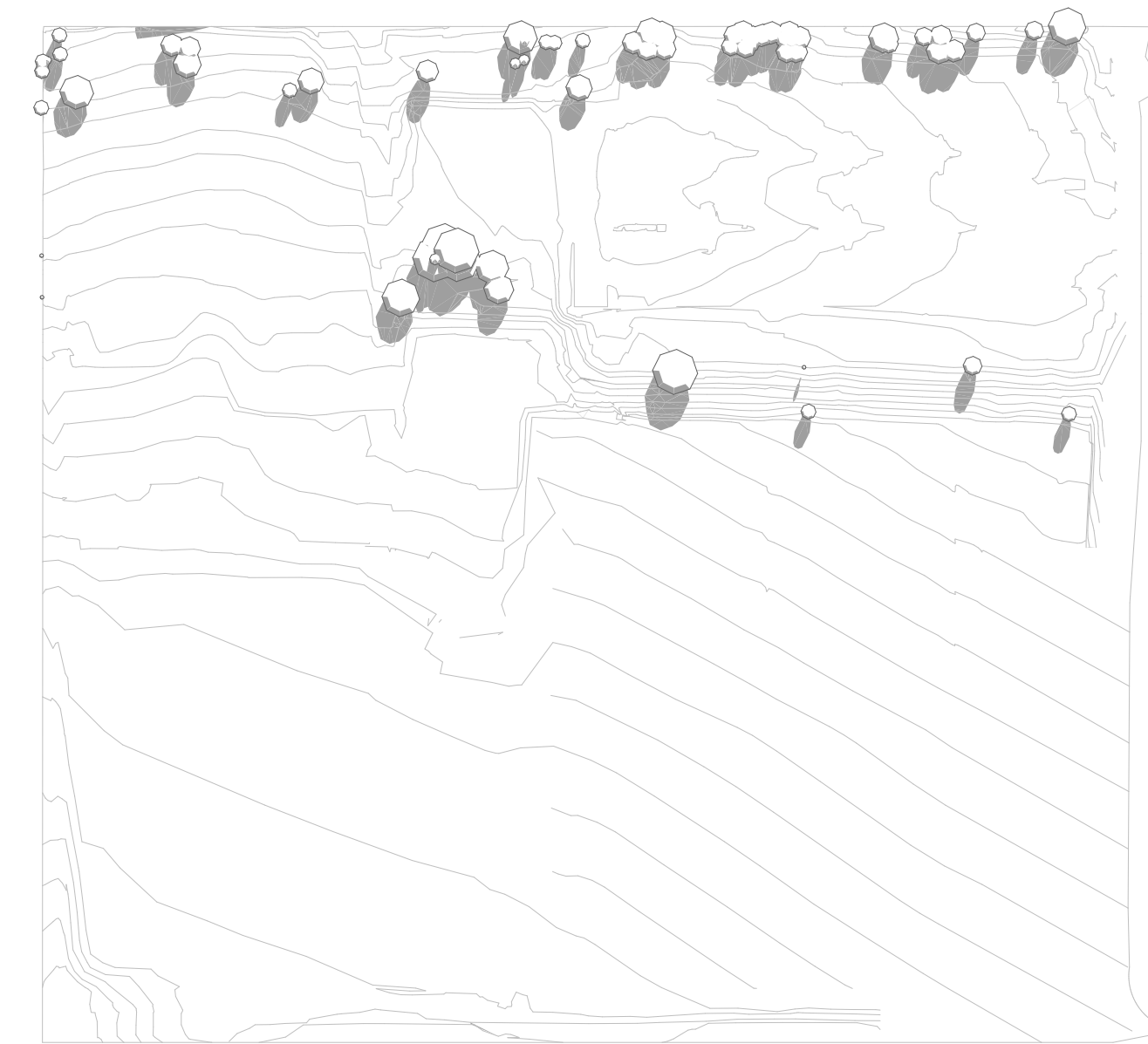




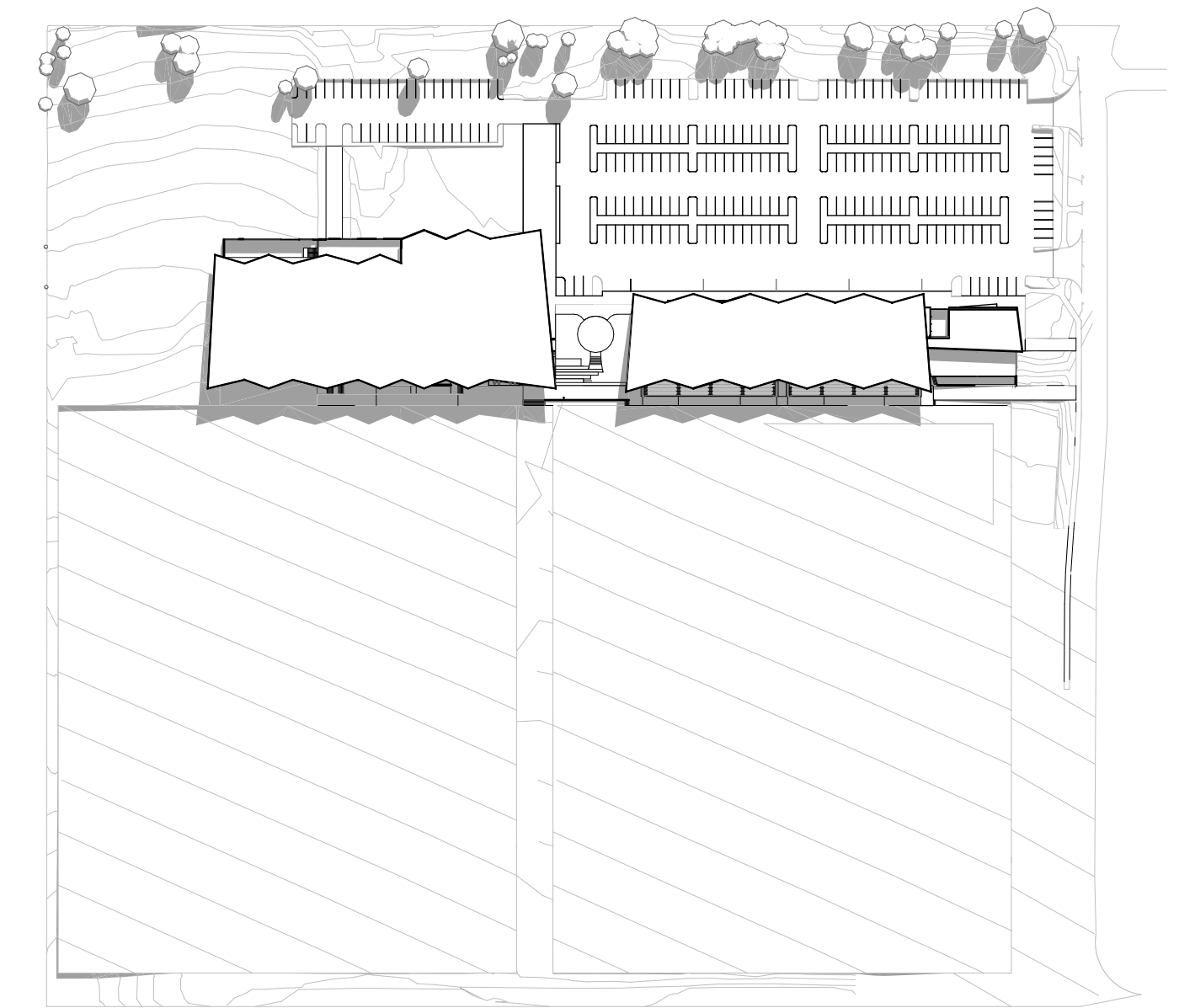
EXISTING SHADOW 9AM (22/12)



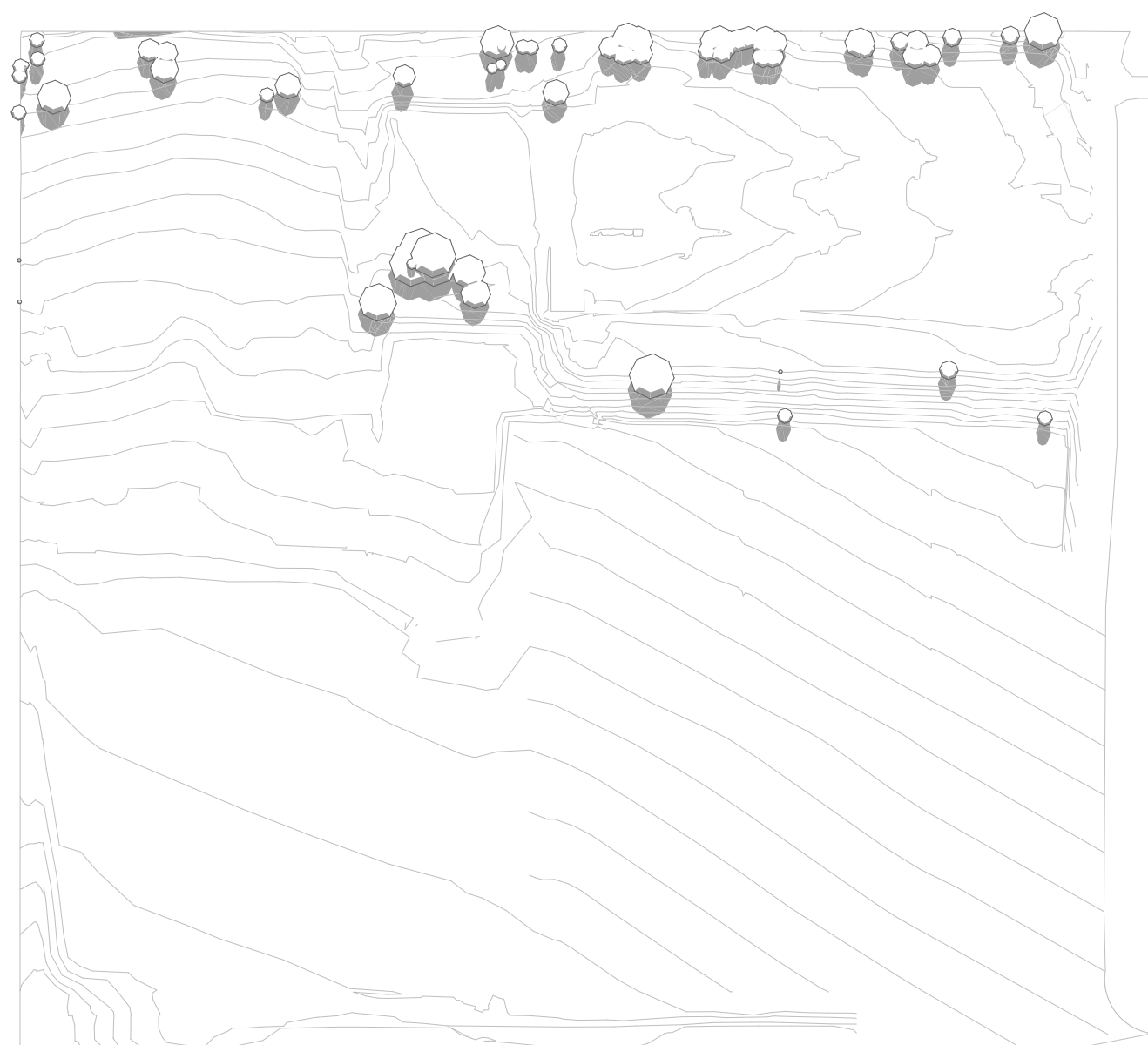
PROPOSED SHADOW 9AM (22/12)



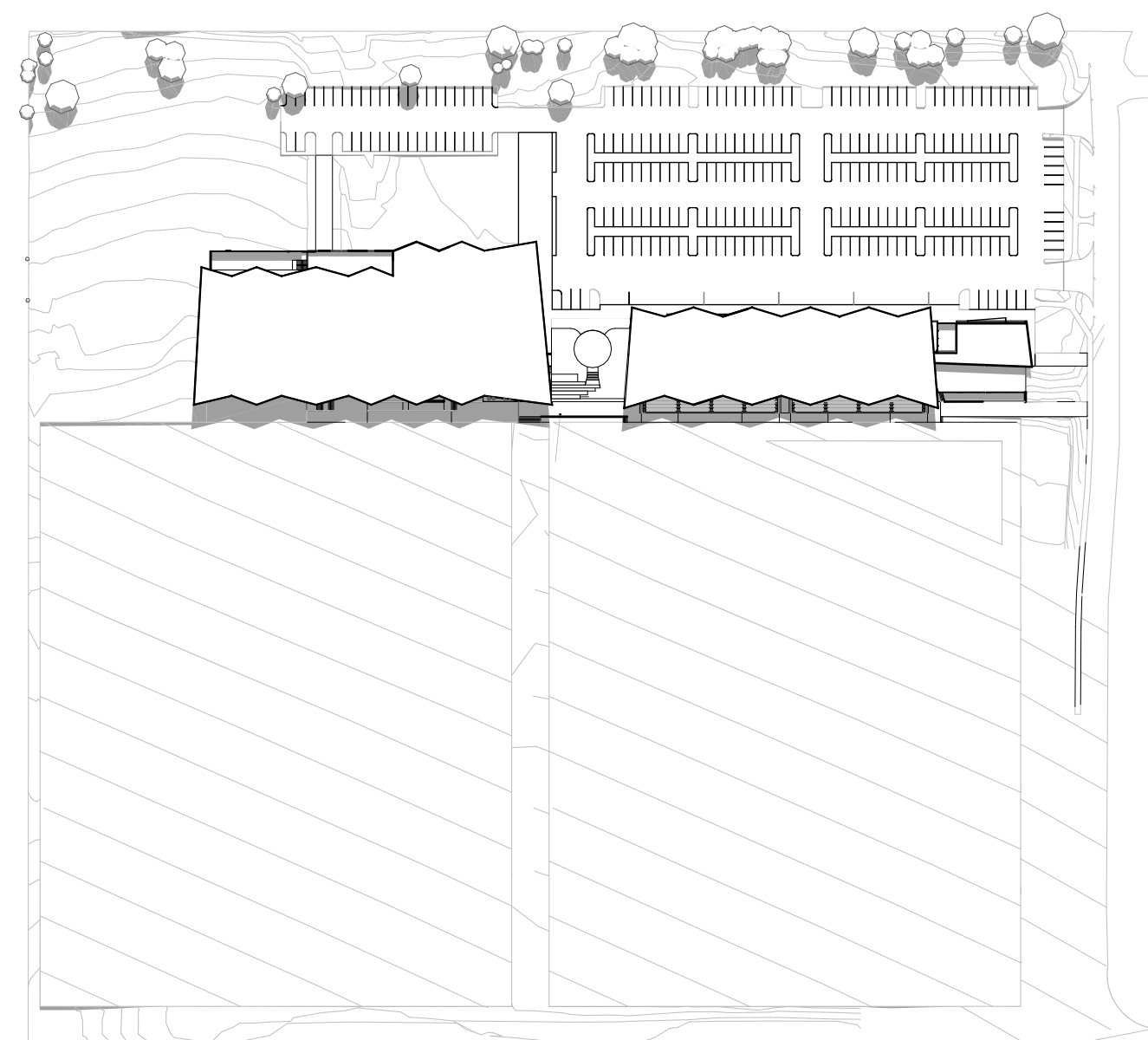
EXISTING SHADOW 10AM (22/12)



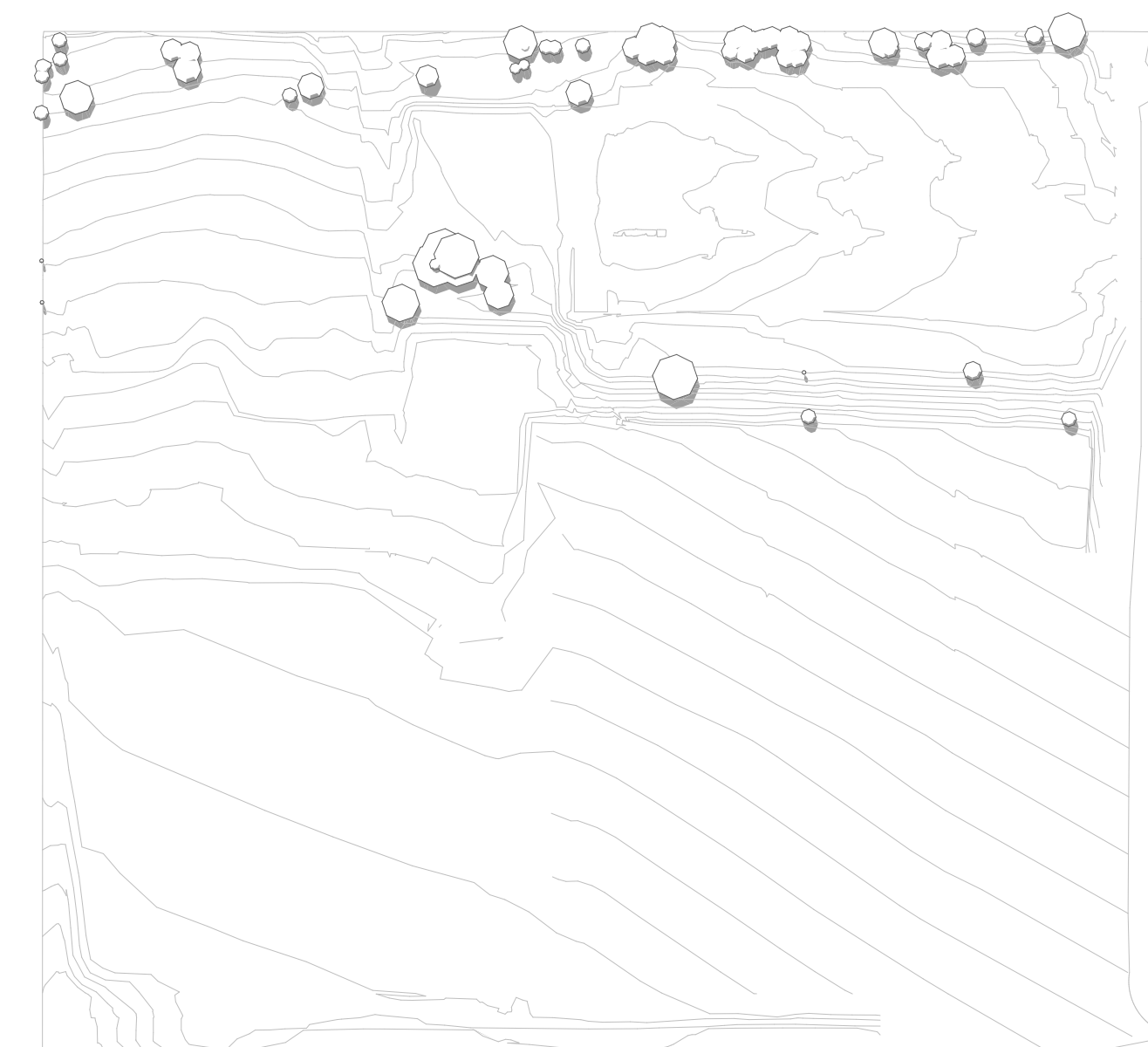
PROPOSED SHADOW 10AM (22/12)



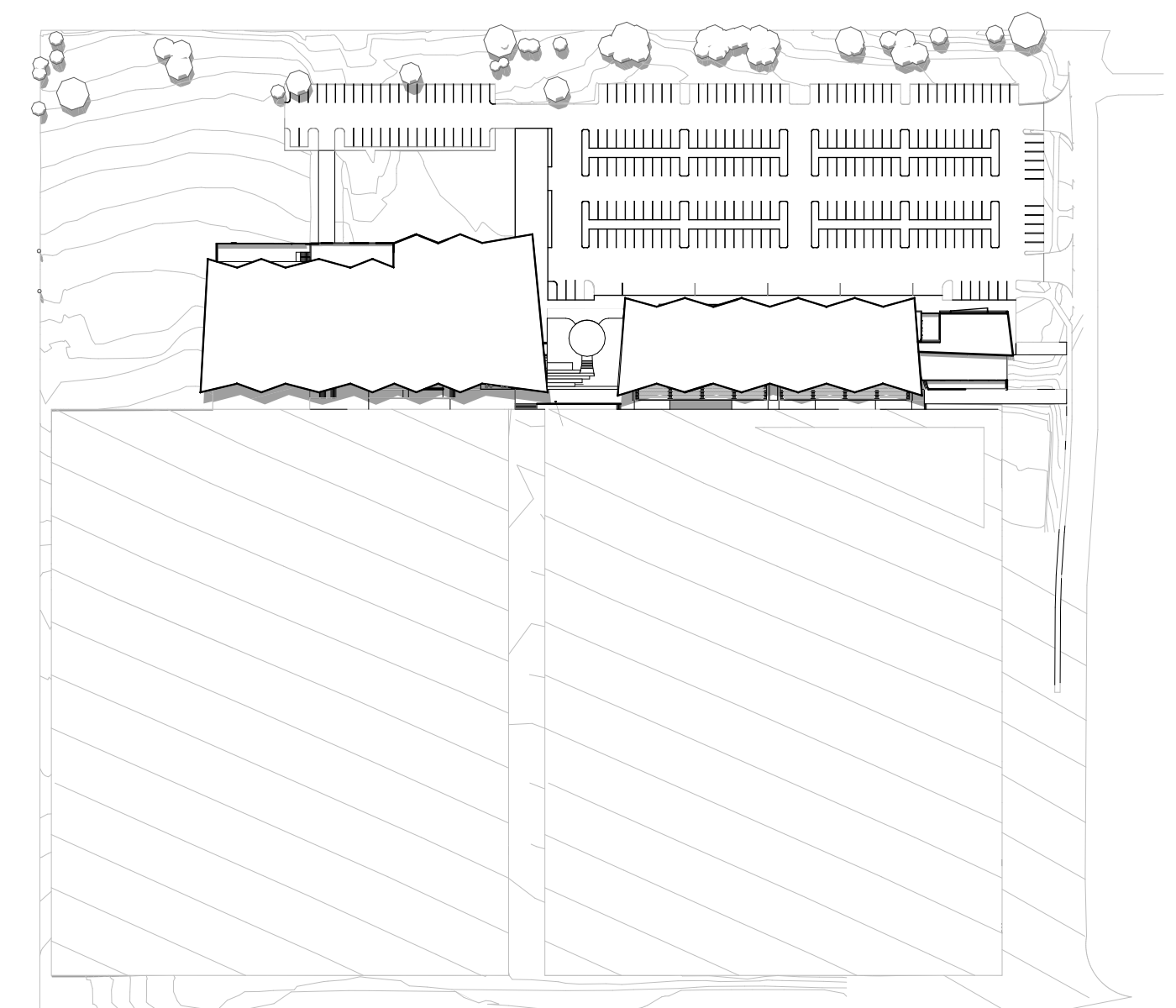
EXISTING SHADOW 11AM (22/12)



PROPOSED SHADOW 11AM (22/12)



EXISTING SHADOW 12PM (22/12)



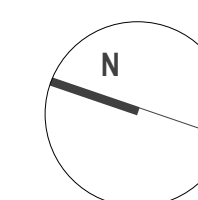
PROPOSED SHADOW 12PM (22/12)



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HB ARCH ARCHITECTURE & PLANNING

LEGEND



KELLYVILLE PARK PNRL EELS - CENTRE OF  
EXCELLENCE & COMMUNITY FACILITY

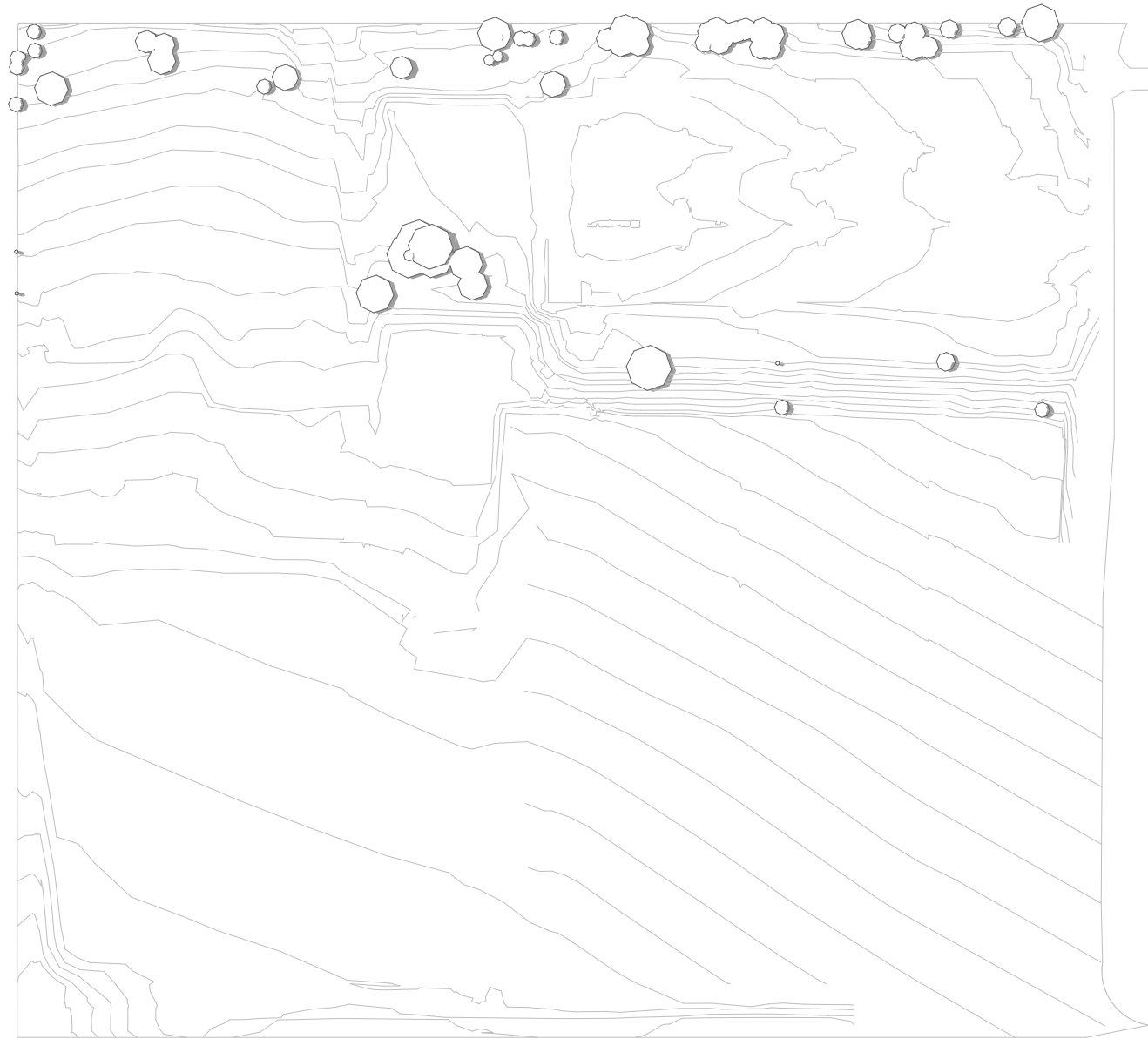
SHADOW PLANS 05 (DEC 22)

Client  
Scale  
7/04/2022

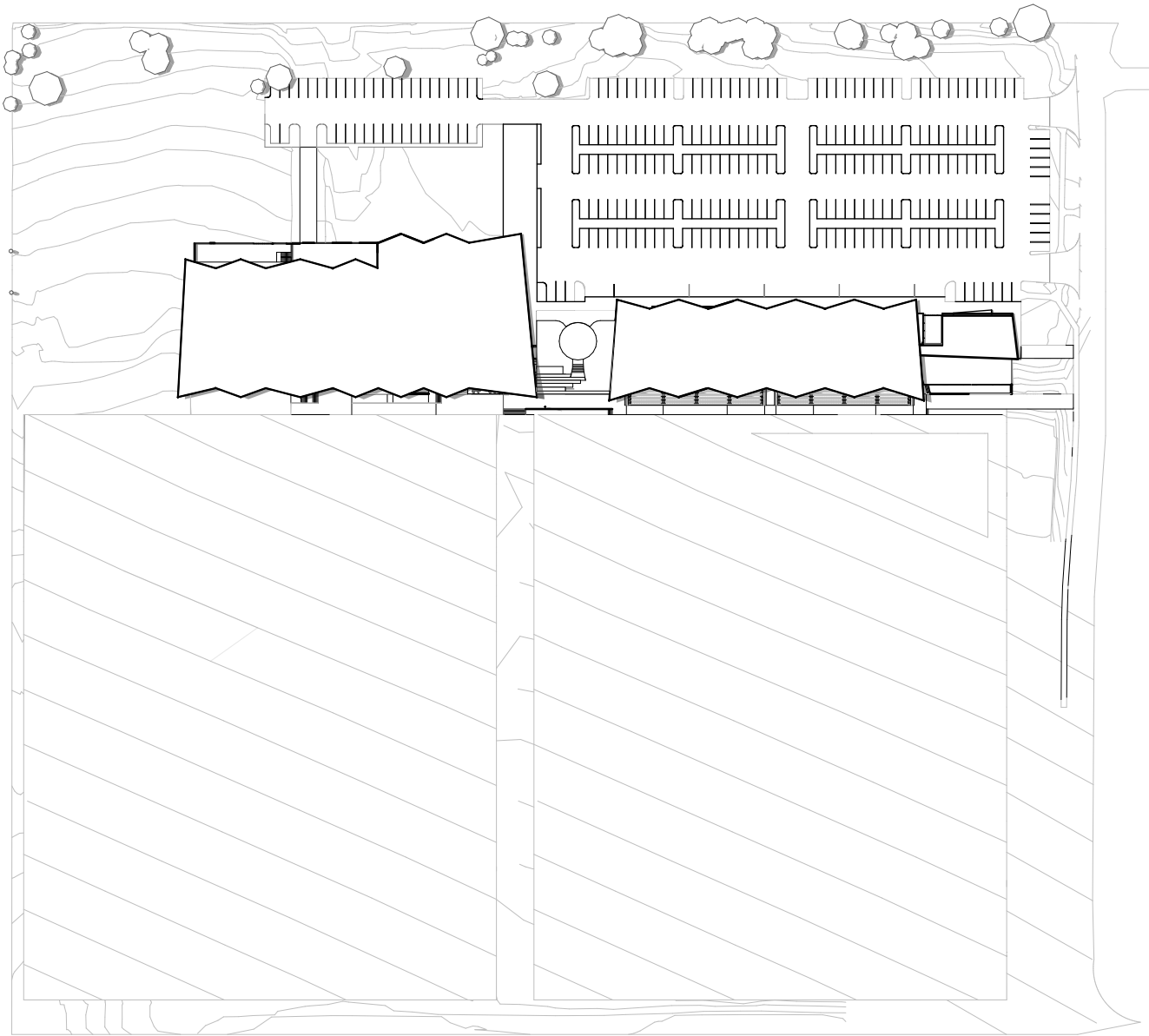
PARRAMATTA EELS  
1:1750 @ A1  
SSDA - 'C'  
email@hbarch.com.au

A38

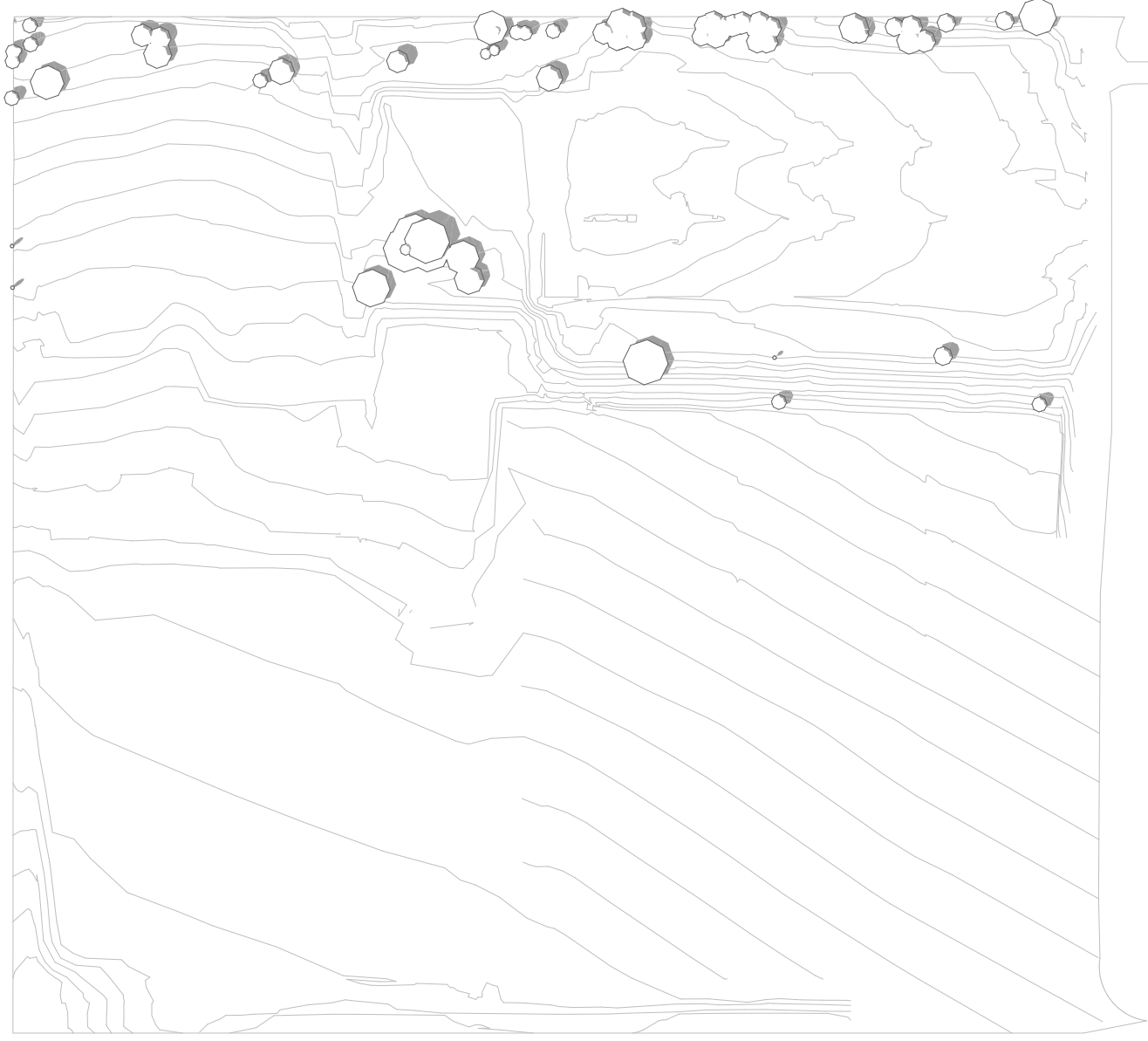




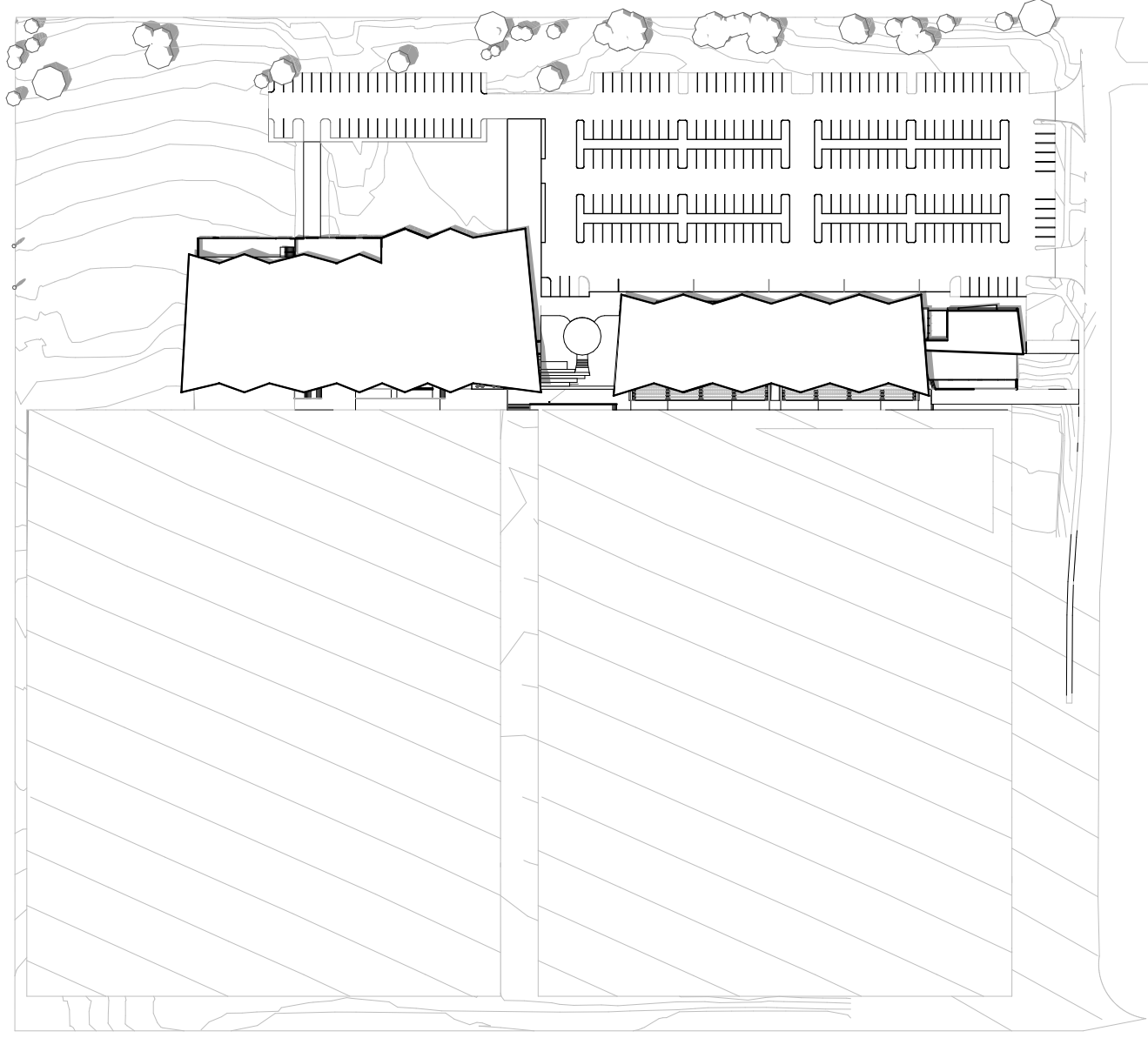
EXISTING SHADOW 1PM (22/12)



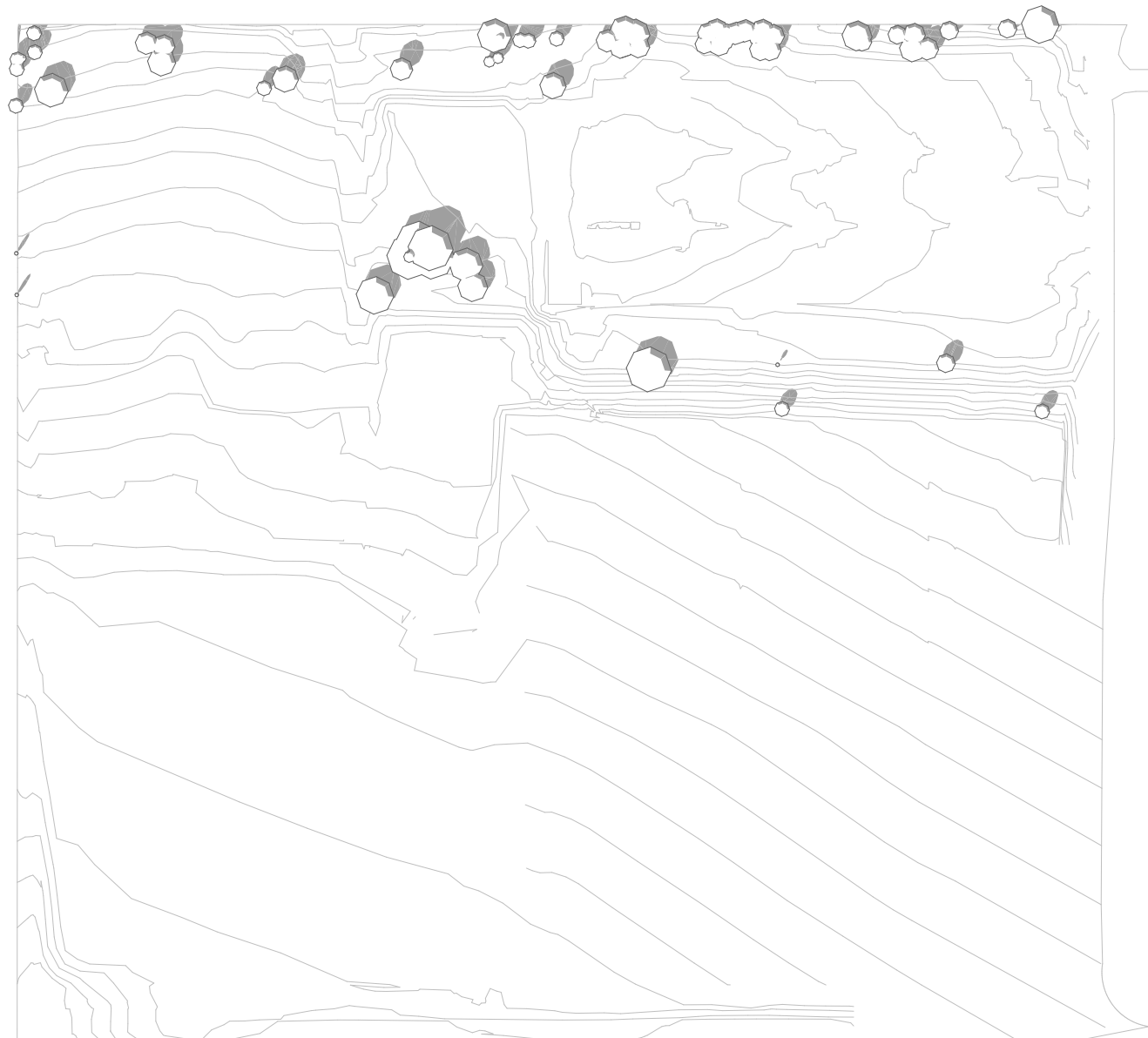
PROPOSED SHADOW 1PM (22/12)



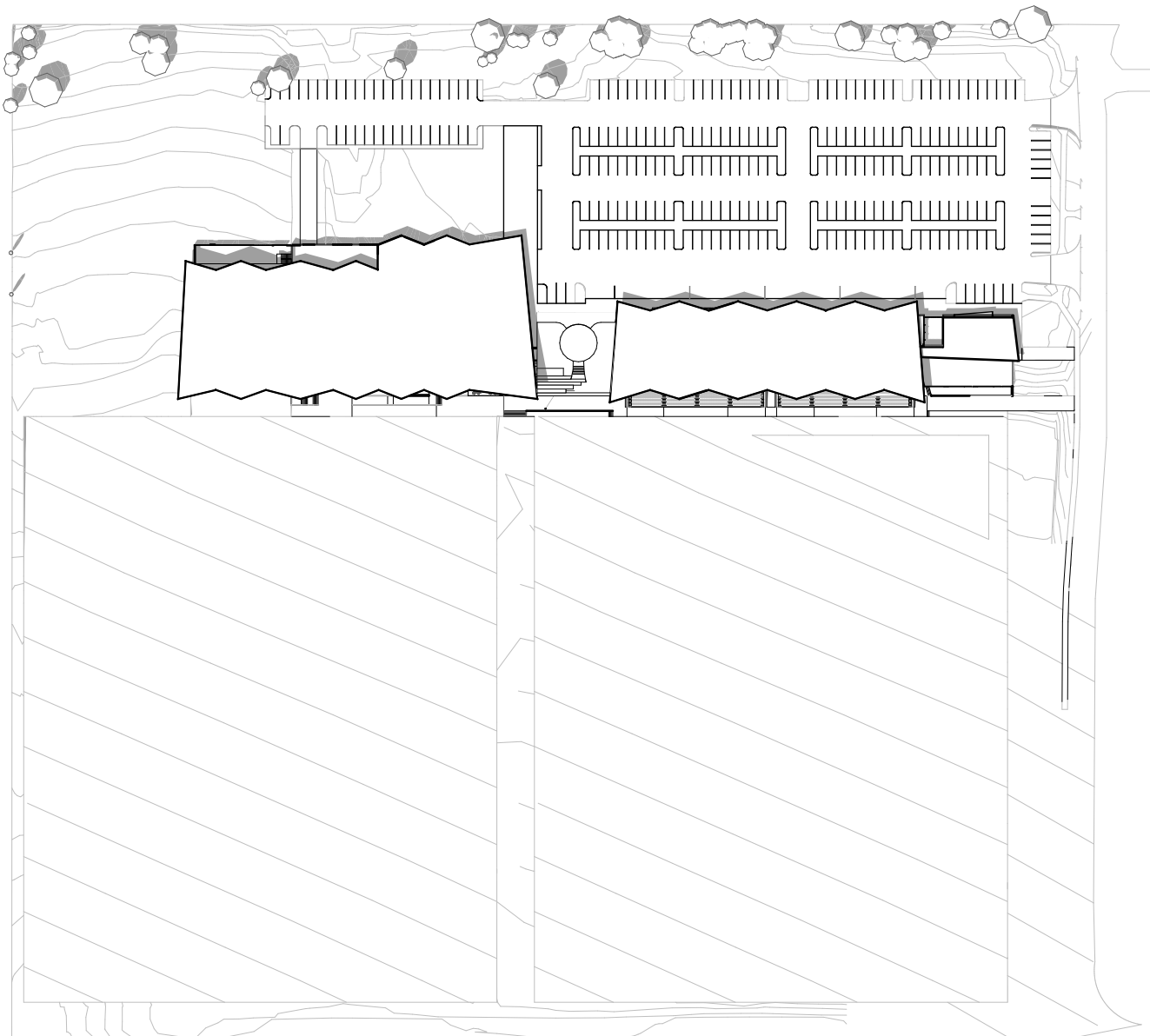
EXISTING SHADOW 2PM (22/12)



PROPOSED SHADOW 2PM (22/12)



EXISTING SHADOW 3PM (22/12)



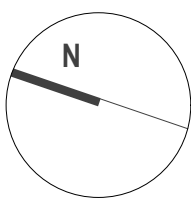
PROPOSED SHADOW 3PM (22/12)



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HB ARCH ARCHITECTURE & PLANNING

LEGEND



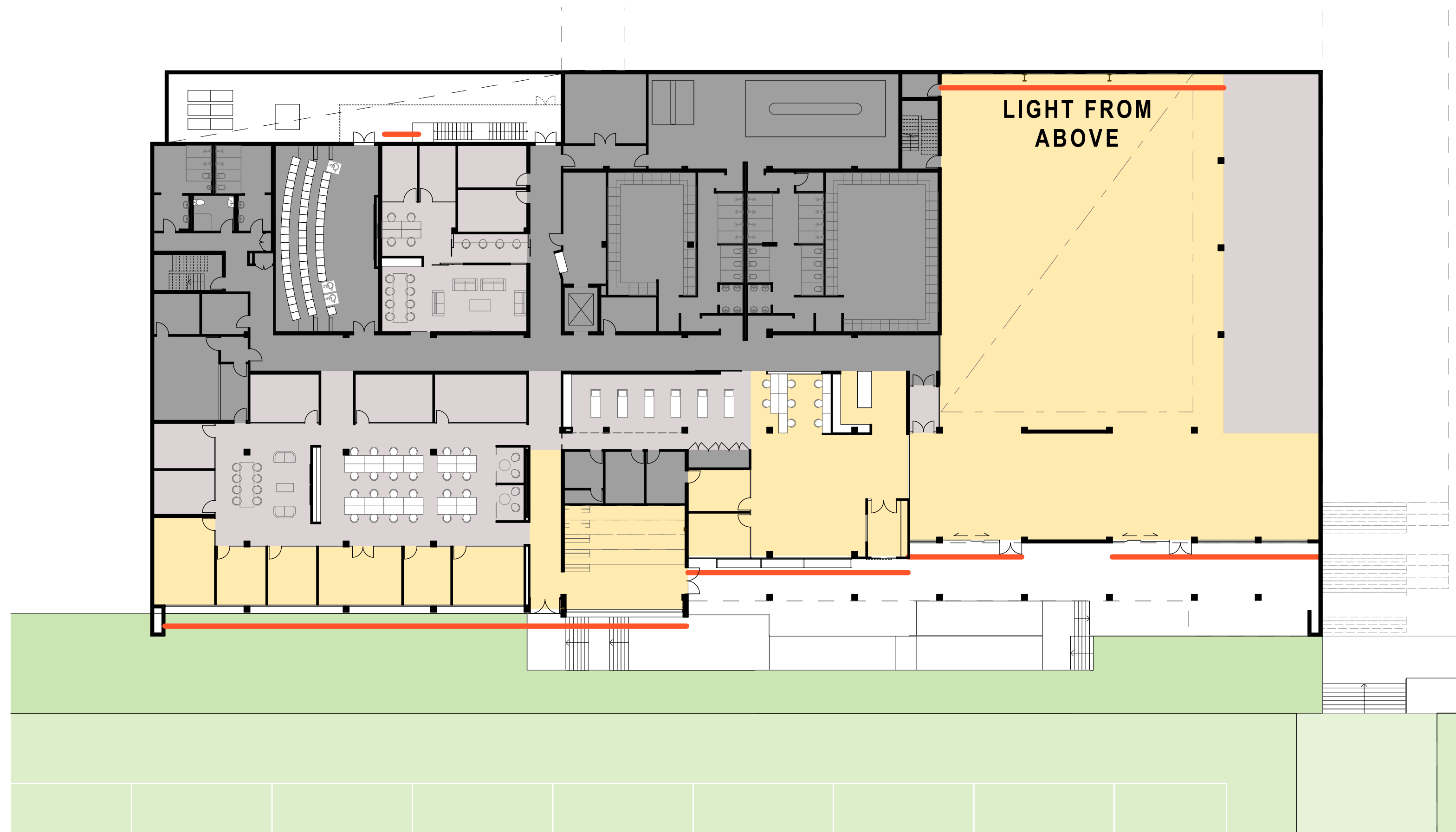
KELLYVILLE PARK PNRL EELS - CENTRE OF EXCELLENCE & COMMUNITY FACILITY

SHADOW PLANS 06 (DEC 22)

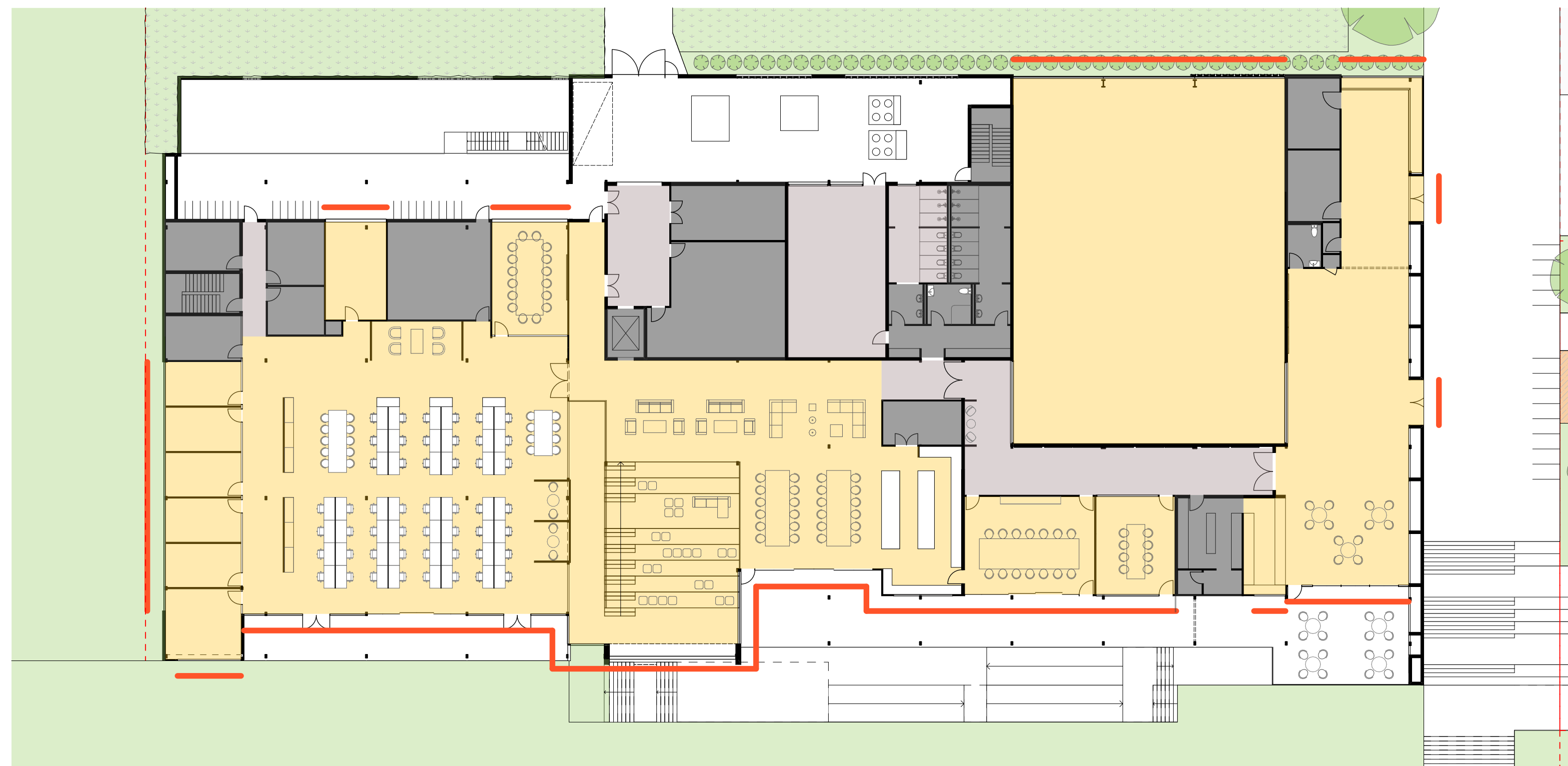
Client PARRAMATTA EELS  
Scale 1:1750 @ A1  
7/04/2022 SSDA - 'C'  
email@hbarch.com.au

A39





1. DAYLIGHTING LOWER LEVEL 1:250



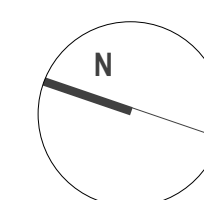
2. DAYLIGHTING UPPER LEVEL 1:250

#### LEGEND

- AREAS OF OCCUPANCY WITH DIRECT SUNLIGHTING.
- AREAS CONNECTED VIA GLAZED PARTITION TO ROOMS WITH DIRECT SUNLIGHTING.
- UNOCCUPIED SERVED AREAS WITHOUT WINDOWS TO DIRECT DAYLIGHT (SUCH AS PLANT, STORE, LOCKER, CHANGEROOM, TOILETS, SHOWERS ETC.) THESE AREAS COULD BE LIT FROM ABOVE WHERE DAYLIGHTING MAY BE REQUIRED AND PRIVACY STILL MAINTAINED.
- EXTENTS OF OPENINGS TO DIRECT NATURAL SUNLIGHTING.



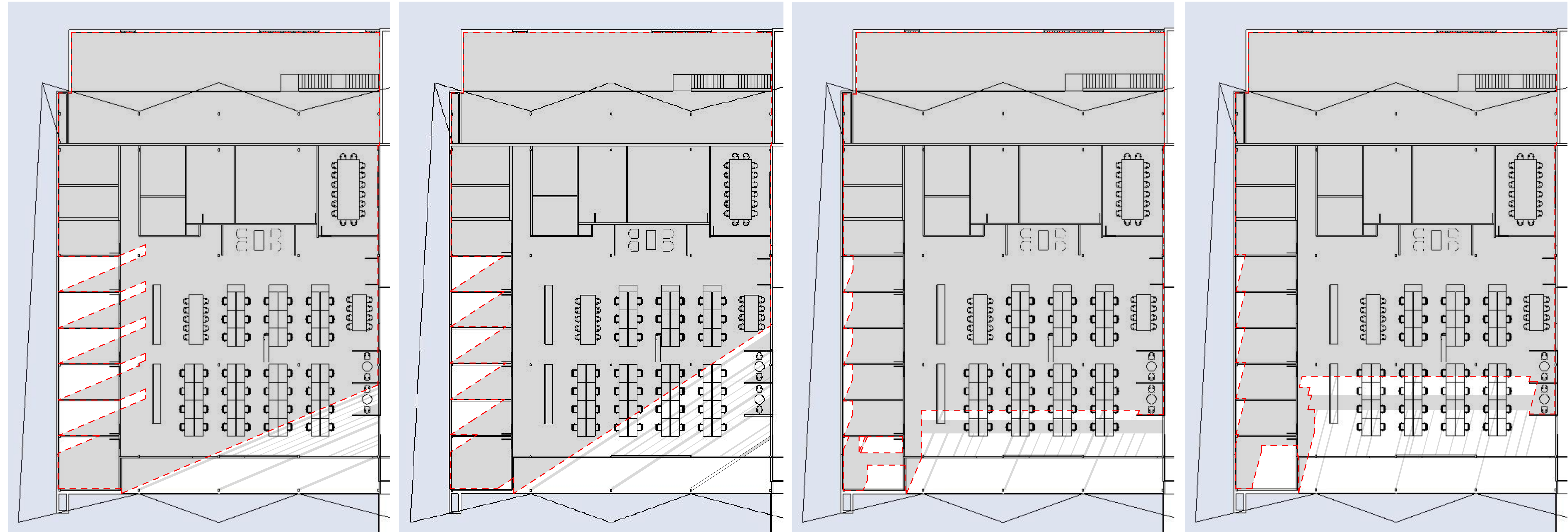
#### LEGEND





# SUN & SHADING STUDY

SUN SHADING CONDITIONS



22/06/22 - 3PM

22/06/22 - 4PM-NO SUN AFTER 4:53PM

22/12/22 - 4PM

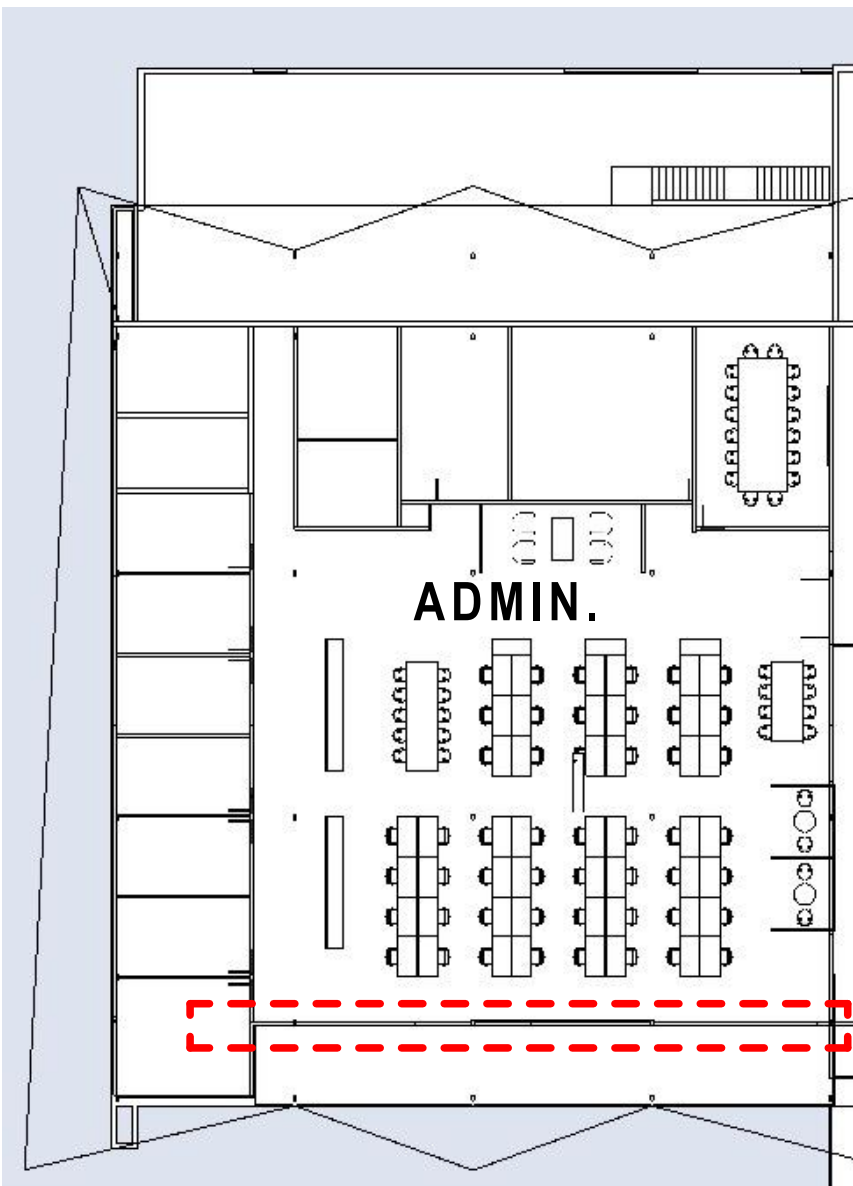
22/12/22 - 5PM

WINTER (AFTERNOON SUN)

SUMMER (AFTERNOON SUN)

## MITIGATION MEASURES

- GLASS TYPE - DOUBLE GLAZED
- ROOF CANOPY ACTING AS DEEP ROOF OVERHANG OVER BALCONY
- INTERNAL USER CONTROLLED SHADING DEVICE



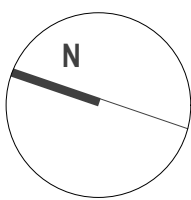
INTRODUCTION OF SHADING DEVICE  
TO MITIGATE AFTERNOON SUN



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HB ARCH ARCHITECTURE & PLANNING

LEGEND



KELLYVILLE PARK PNRL EELS - CENTRE OF  
EXCELLENCE & COMMUNITY FACILITY

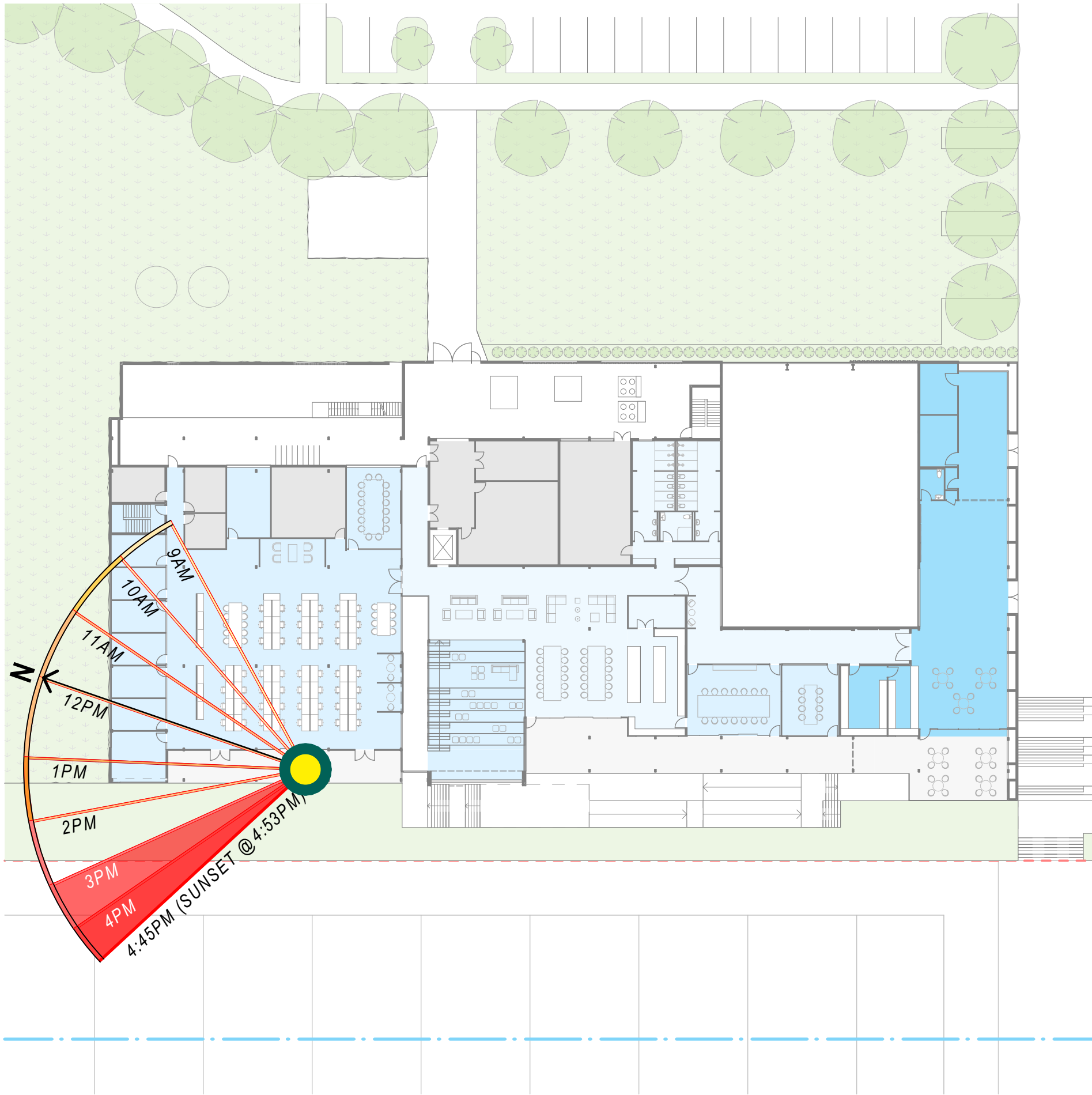
COE ADMIN. SUN/SHADING STUDY -  
AFTERNOON

Client PARRAMATTA EELS  
Scale 1:1748.92, 1:1750, 1:1574.45,  
1:2660.13, 1:120.26 @ A1

7/04/2022 SSDA - 'C'  
email@hbarch.com.au

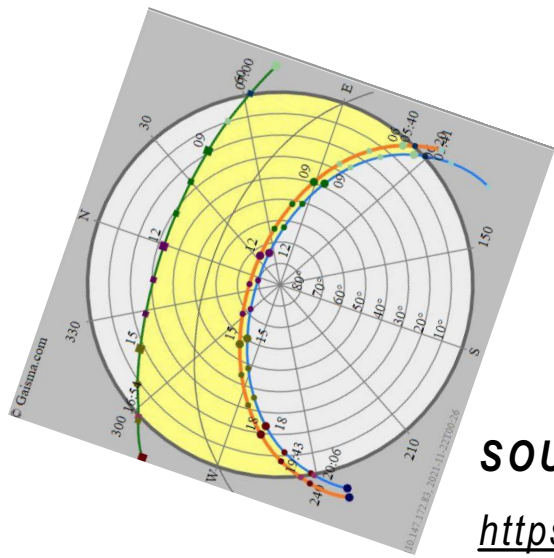
A41



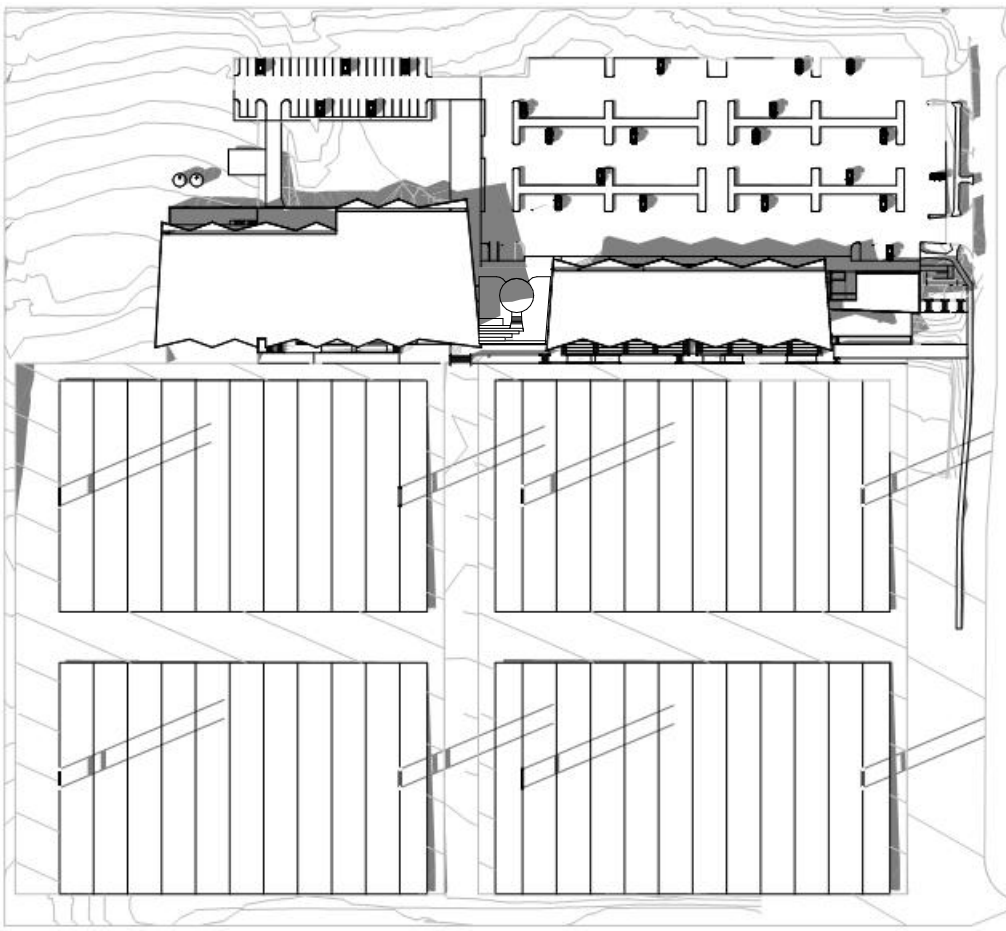


**MITIGATING THE IMPACT OF LOW SOLAR ANGLES - IN WINTER ;**

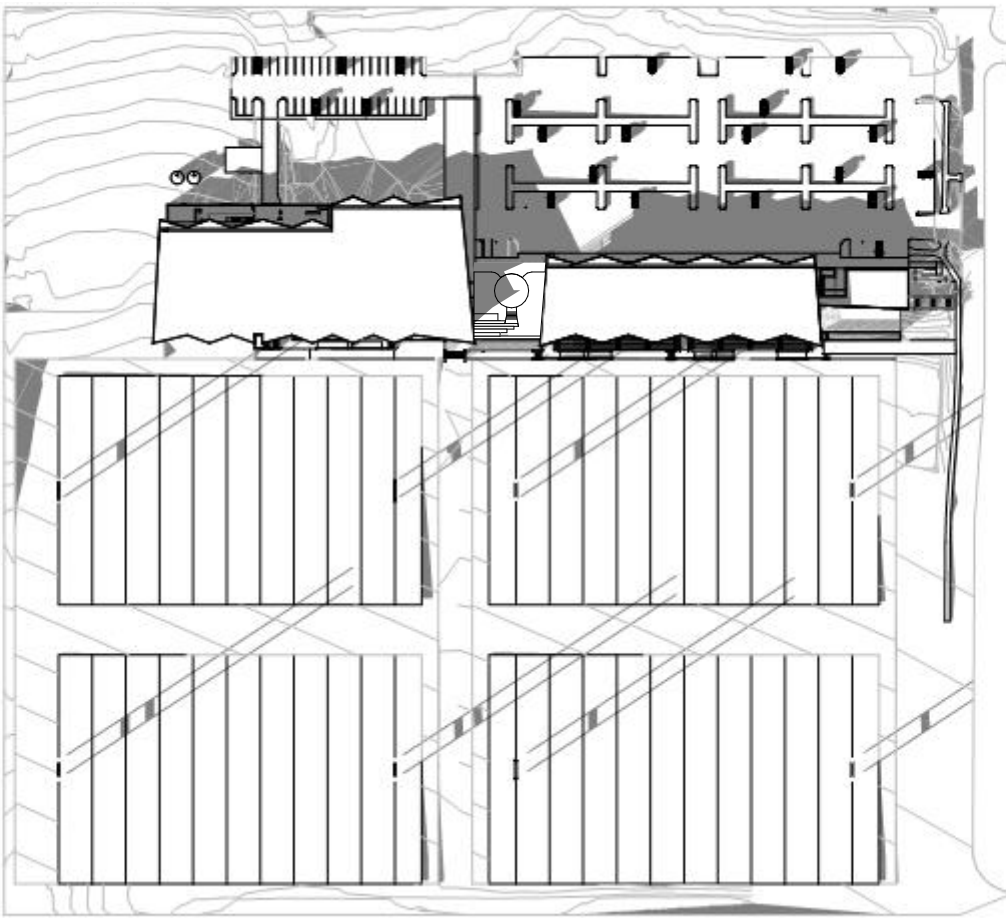
1. SUN IS PREDOMINANTLY IN THE NORTHERN SKY DURING WINTER AND SHOULDER MONTHS - BUILDING ORIENTATION RESULTS IN DIRECT SUNLIGHT ENTERING THE COE ONLY AFTER 3 PM
2. ANGLE OF LATE AFTERNOON DIRECT SUN LIGHT IS ACUTE TO THE FAÇADE - DOES NOT ENTER DEEPLY INTO THE BUILDING.
3. DEEP ROOF OVERHANG PROVIDES SHADE TO OCCUPIED INTERNAL SPACES AND REDUCES THE EXTENT OF DIRECT SUNLIGHT INSIDE THE BUILDING.
4. GLASS TYPE - DOUBLED GLAZED SOLAR PERFORMANCE GLAZING REDUCES IMPACT OF SOLAR HEAT GAIN AND GLARE FROM DIRECT SUNLIGHT.



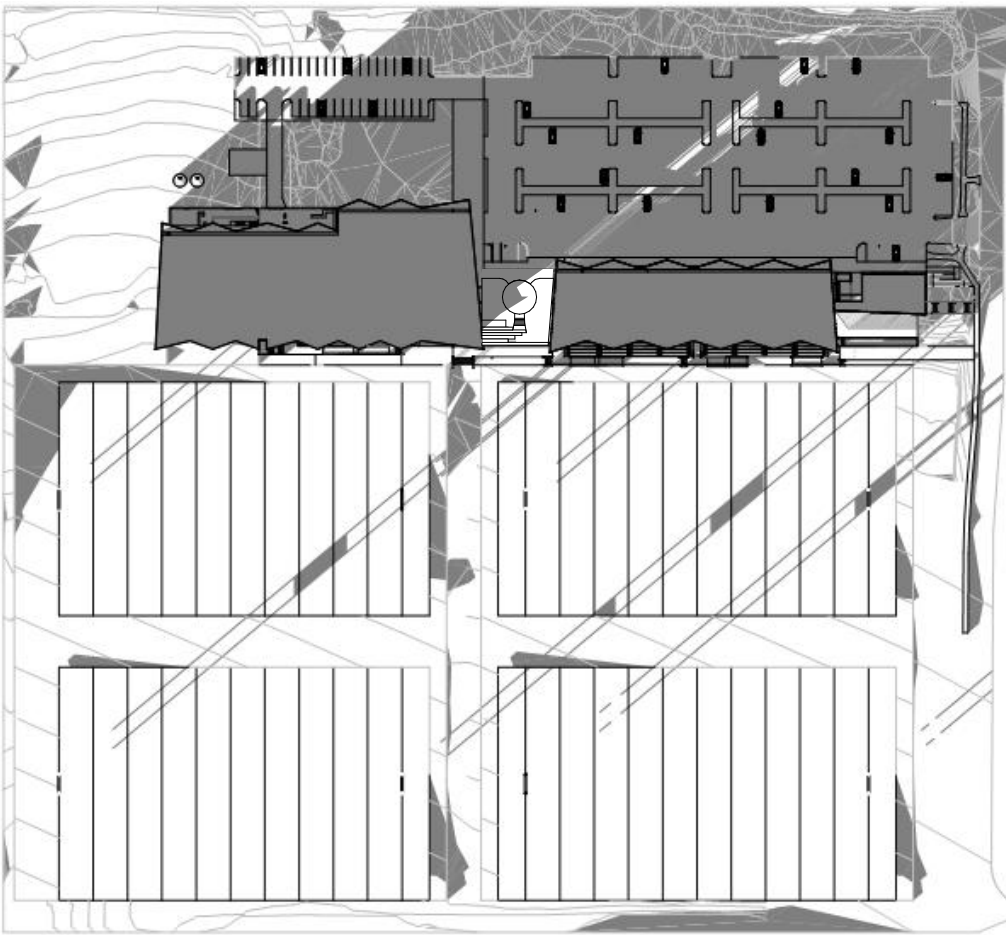
**SOURCE REFERENCE :**  
<https://www.gaisma.com/en/location/sydney-au.html>



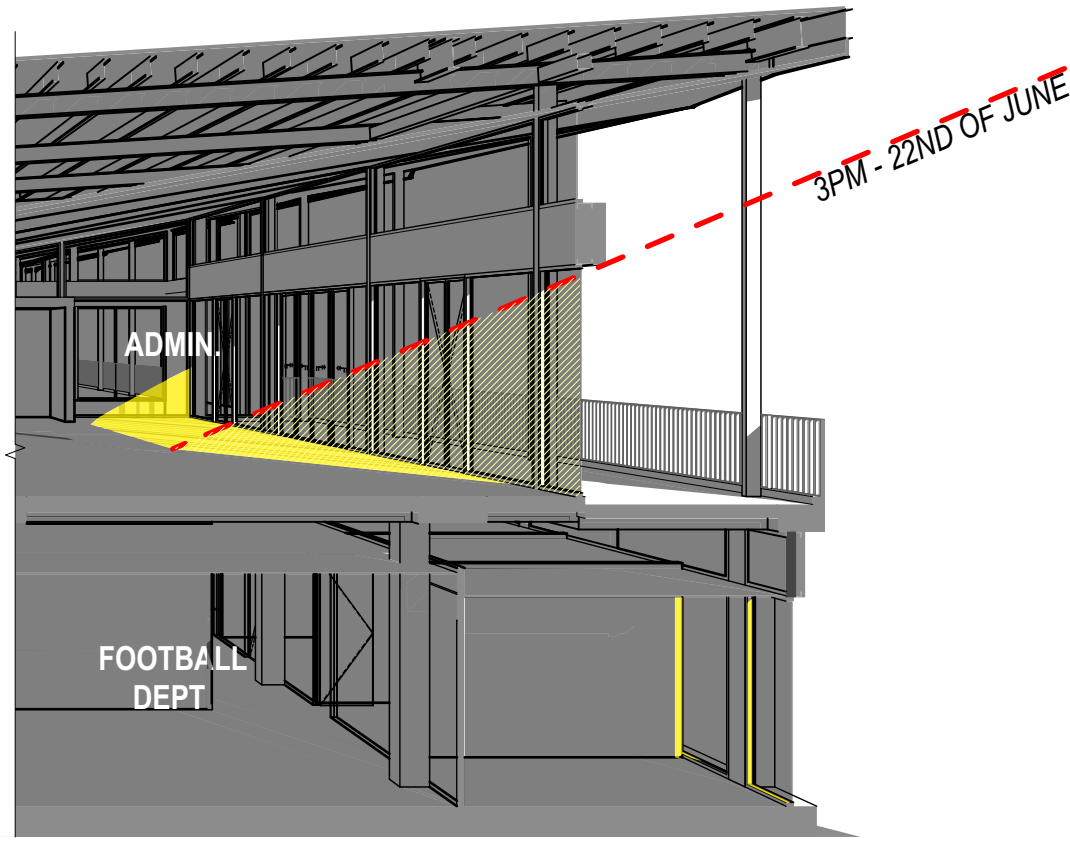
**LOW SOLAR ANGLES - IN WINTER**  
 3PM - 22 JUNE



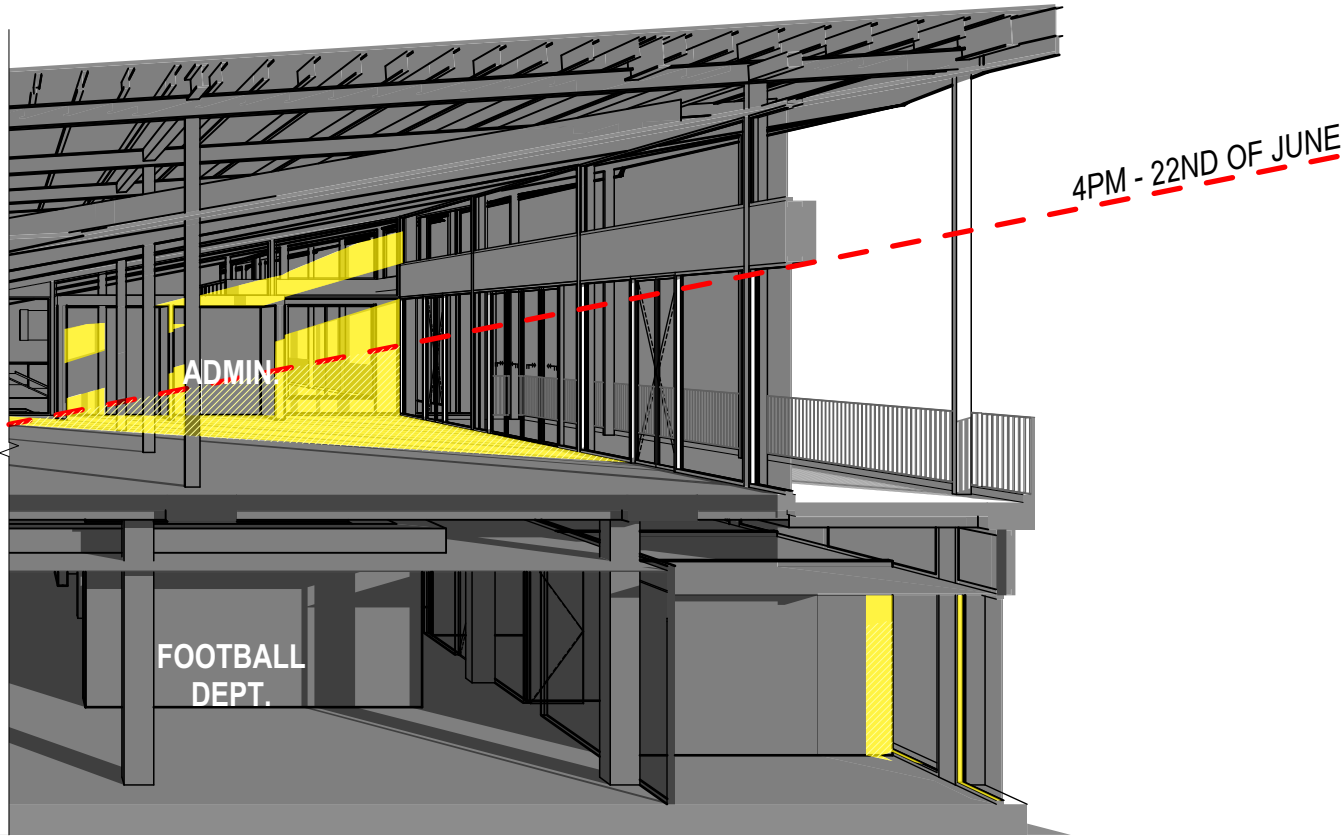
**LOW SOLAR ANGLES - IN WINTER**  
 4PM - 22 JUNE



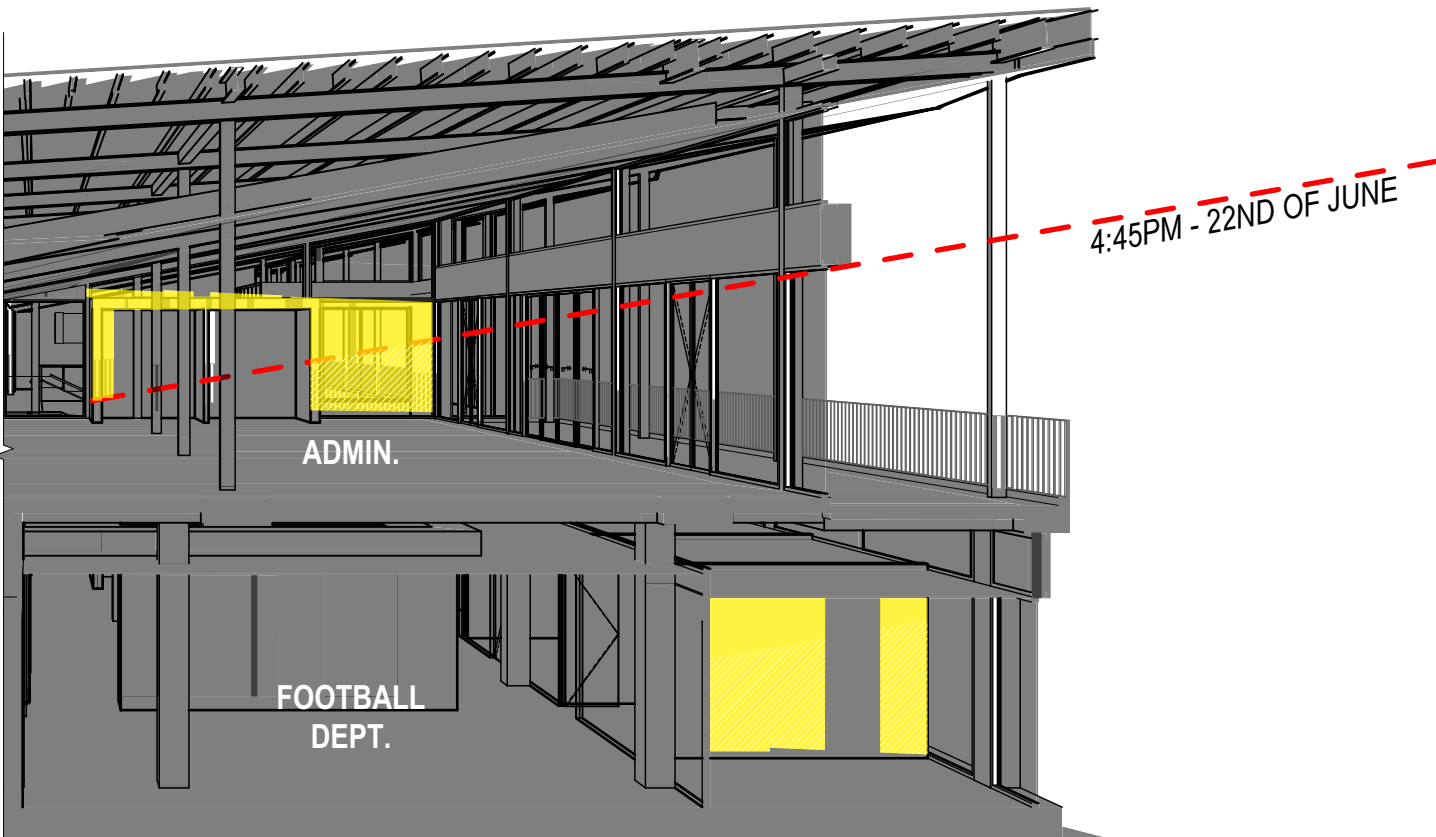
**LOW SOLAR ANGLES - IN WINTER**  
 4:45PM - 22 JUNE (SUNSET @ 4:53PM)



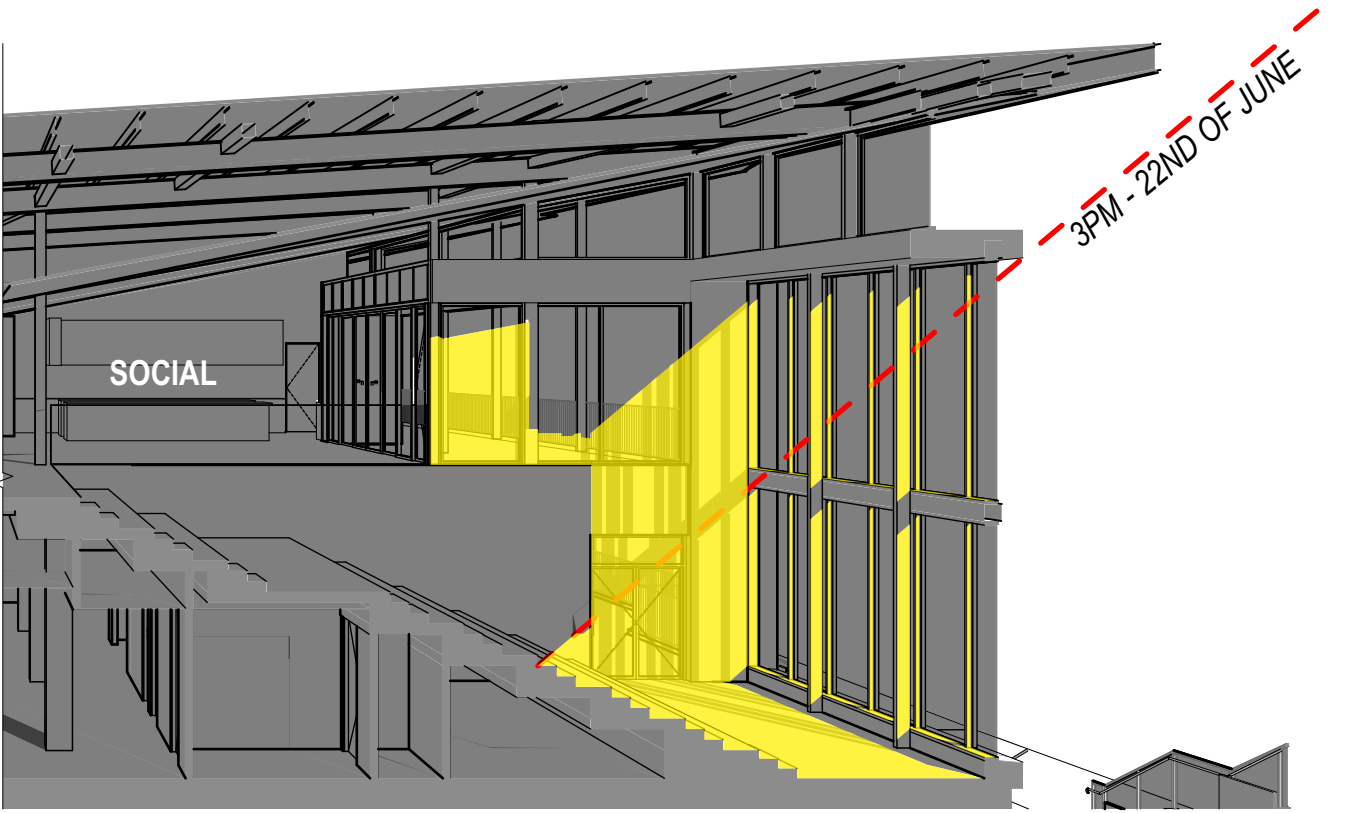
**ADMIN. & FOOTBALL DEPT.**  
 3PM - 22ND JUNE



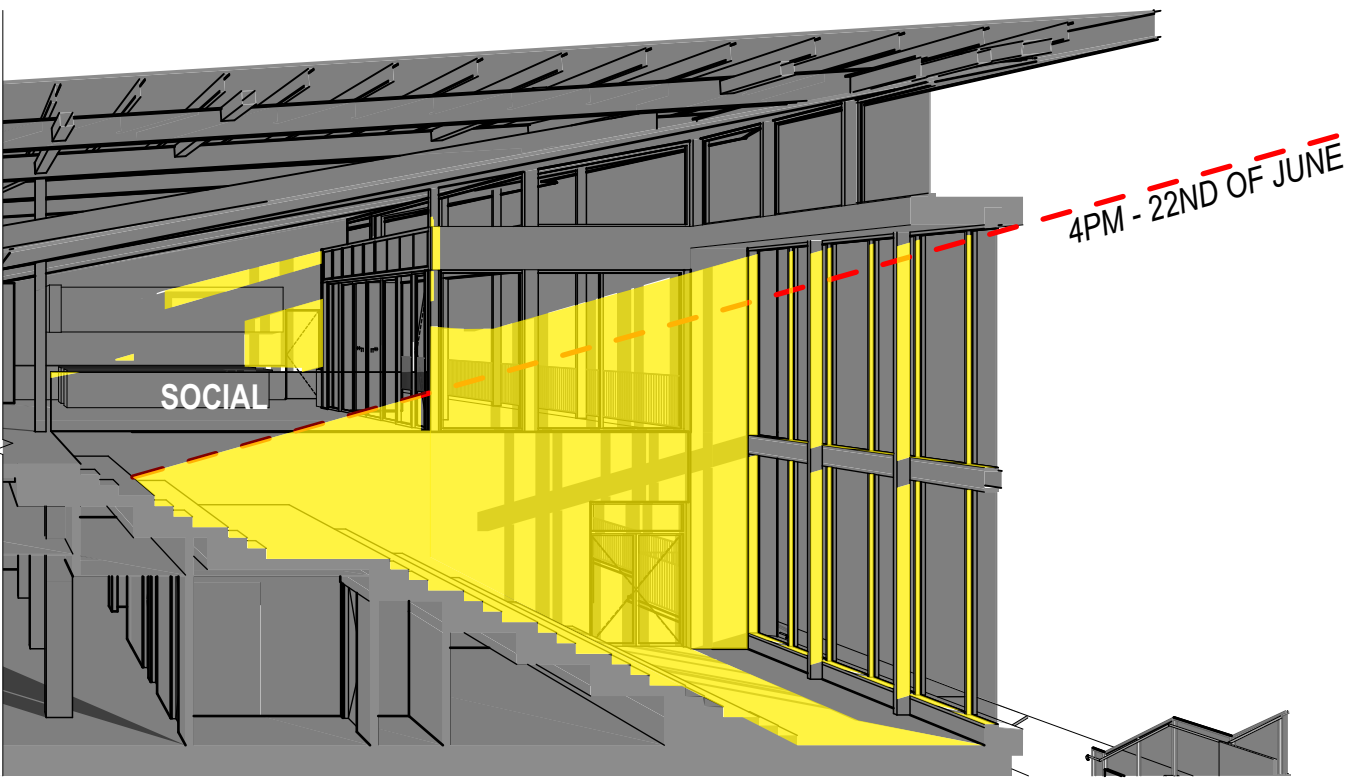
**ADMIN. & FOOTBALL DEPT.**  
 4PM - 22ND JUNE



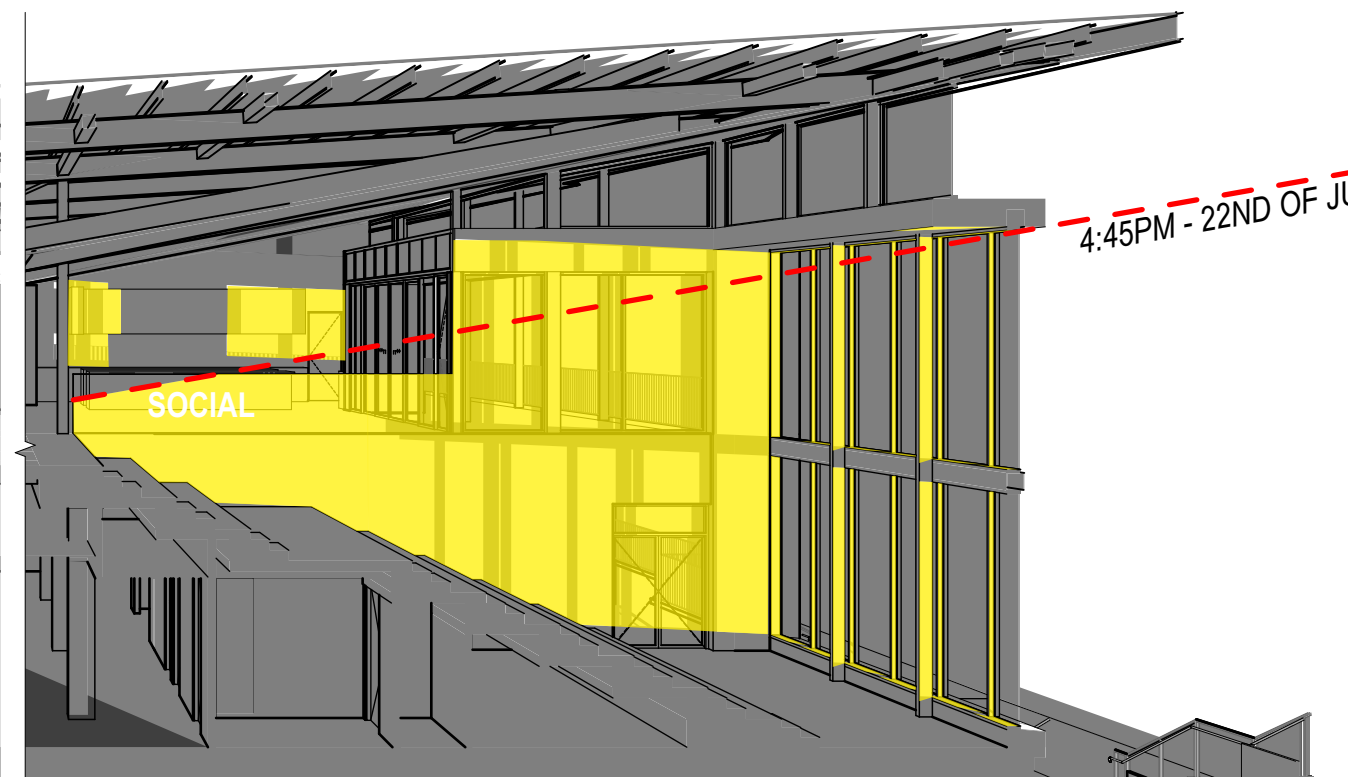
**ADMIN. & FOOTBALL DEPT.**  
 4:45PM - 22ND JUNE (SUNSET @ 4:53PM)



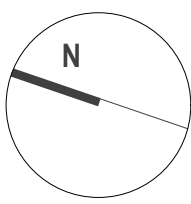
**SOCIAL AREA**  
 3PM - 22ND JUNE



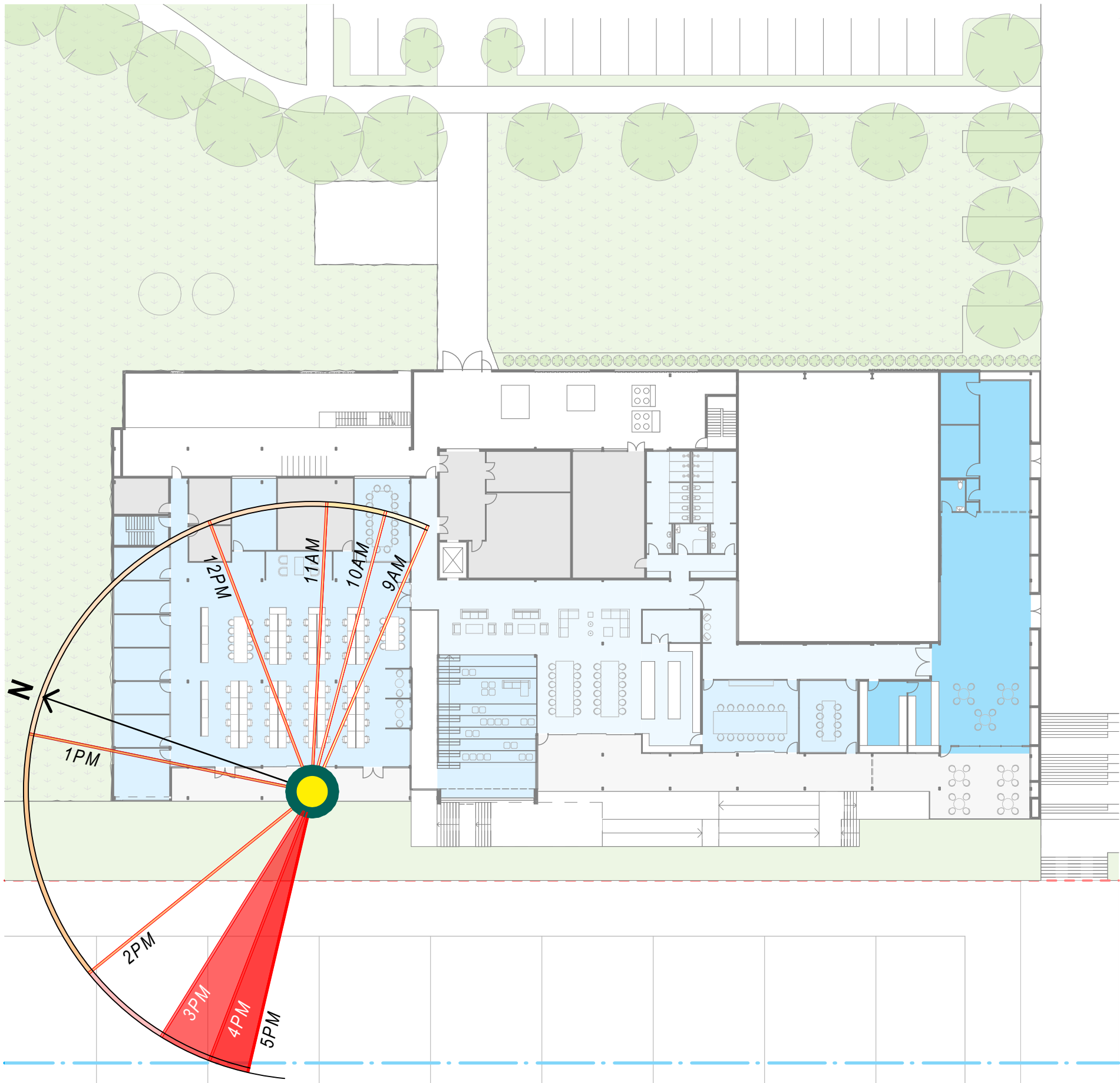
**SOCIAL AREA**  
 4PM - 22ND JUNE



**SOCIAL AREA**  
 4:45PM - 22ND JUNE (SUNSET @ 4:53PM)

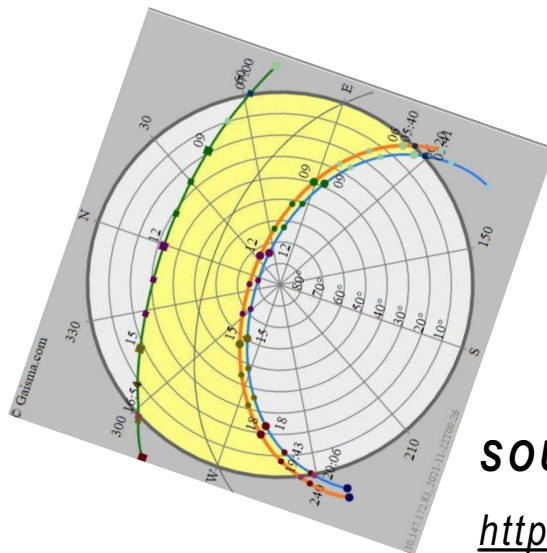






### MITIGATING THE IMPACT OF LOW SOLAR ANGLES – IN SUMMER ;

1. SUN IS PREDOMINANTLY IN THE NORTHERN SKY DURING SUMMER MONTHS UNTIL MID-AFTERNOON – BUILDING ORIENTATION RESULTS IN DIRECT SUNLIGHT ENTERING THE COE ONLY AFTER 2 PM
2. AZIMUTH OF MID-AFTERNOON SUN LIGHT – BEING HIGHER IN THE SKY – RESULTS IN MORE SHADE FROM THE ROOF OVERHANG – DIRECT SUNLIGHT DOES NOT ENTER DEEPLY INTO THE BUILDING UNTIL AFTER 5PM WHEN MAJORITY OF BUILDING USERS HAVE LEFT .
3. DEEP ROOF OVERHANG PROVIDES SHADE TO OCCUPIED INTERNAL SPACES AND REDUCES THE EXTENT OF DIRECT SUNLIGHT INSIDE THE BUILDING.
4. GLASS TYPE – DOUBLED GLAZED SOLAR PERFORMANCE GLAZING REDUCES IMPACT OF SOLAR HEAT GAIN AND GLARE FROM DIRECT SUNLIGHT.
5. COE USERS ADJACENT TO THE GLAZED FAÇADE WHO DO EXPERIENCE DIRECT SUNLIGHT HAVE THE OPTION OF USING INTERNAL BLINDS TO FILTER SUNLIGHT.



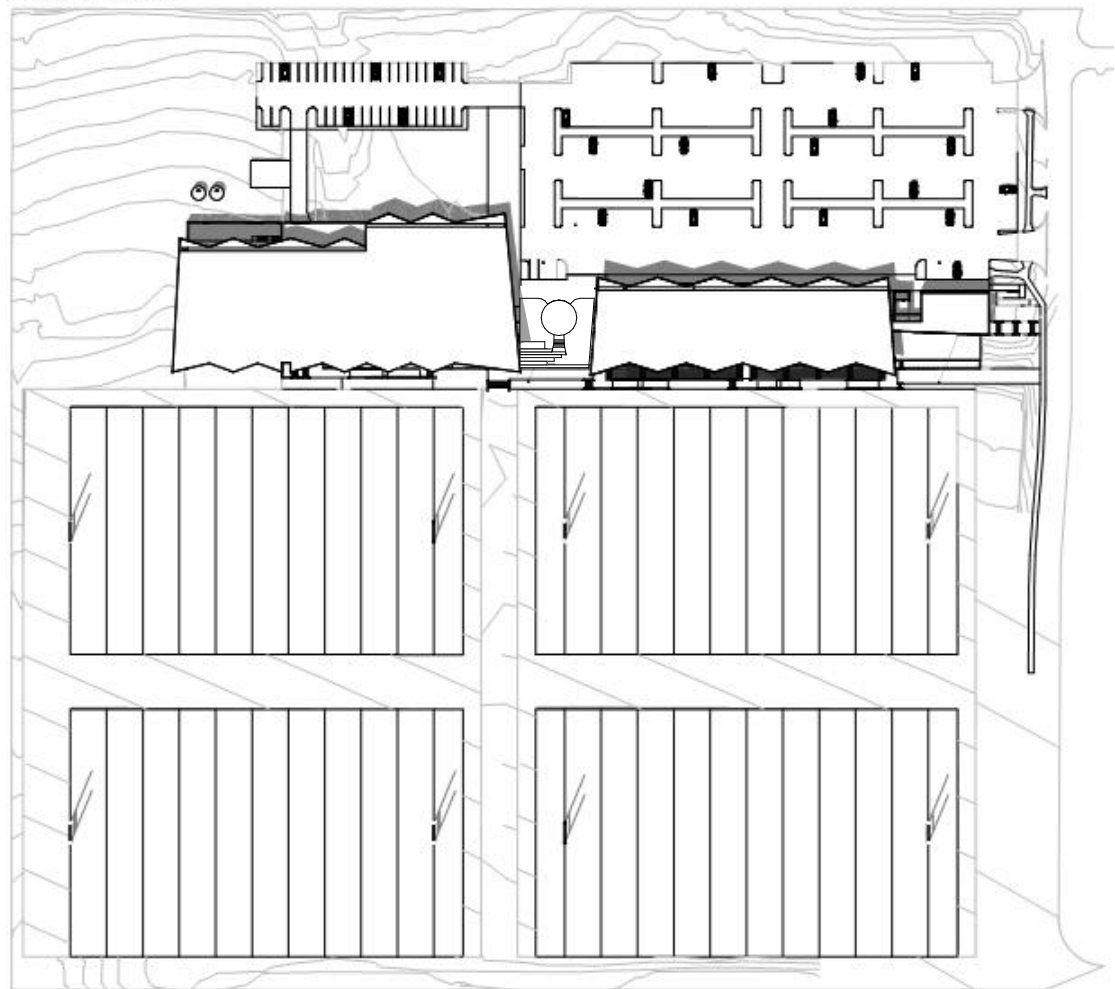
**SOURCE REFERENCE :**  
<https://www.gaisma.com/en/location/sydney-au.html>



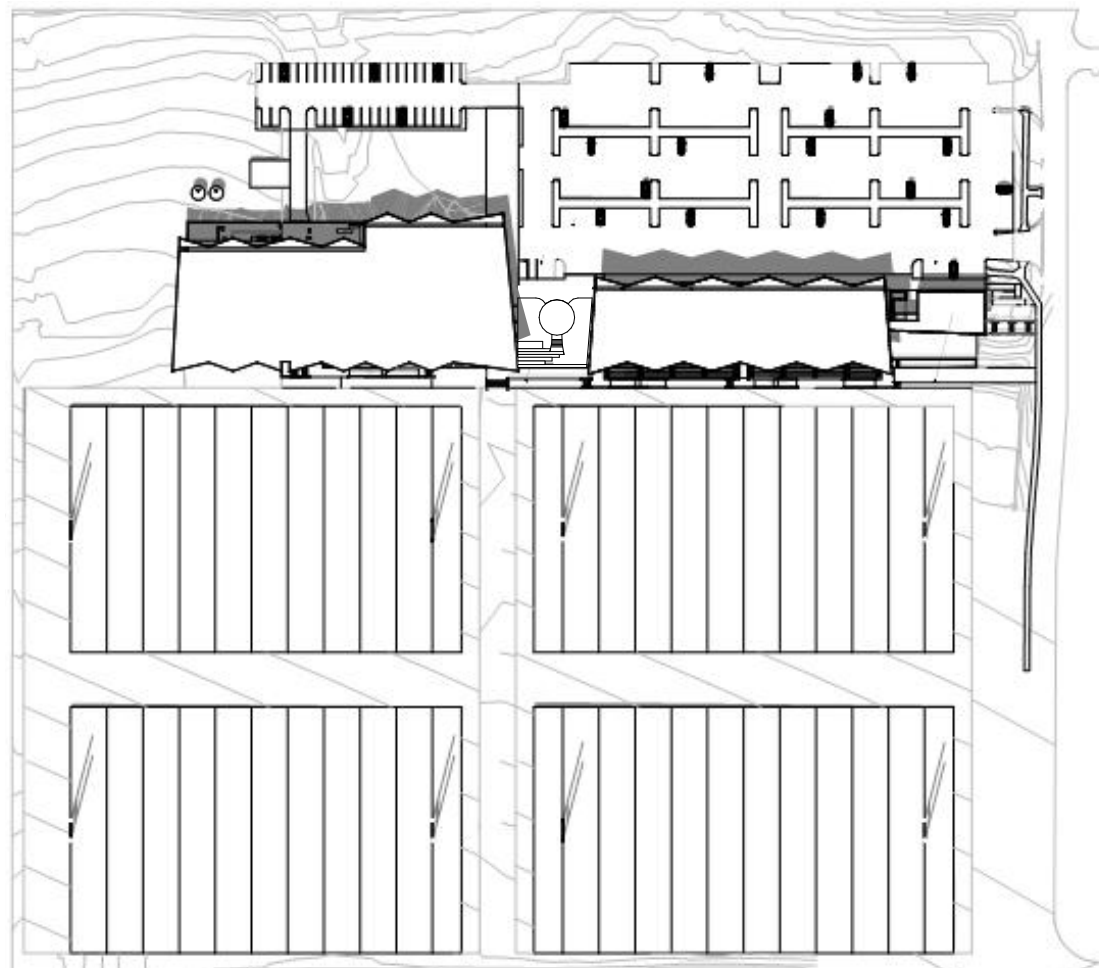
HB ARCH ARCHITECTURE & PLANNING

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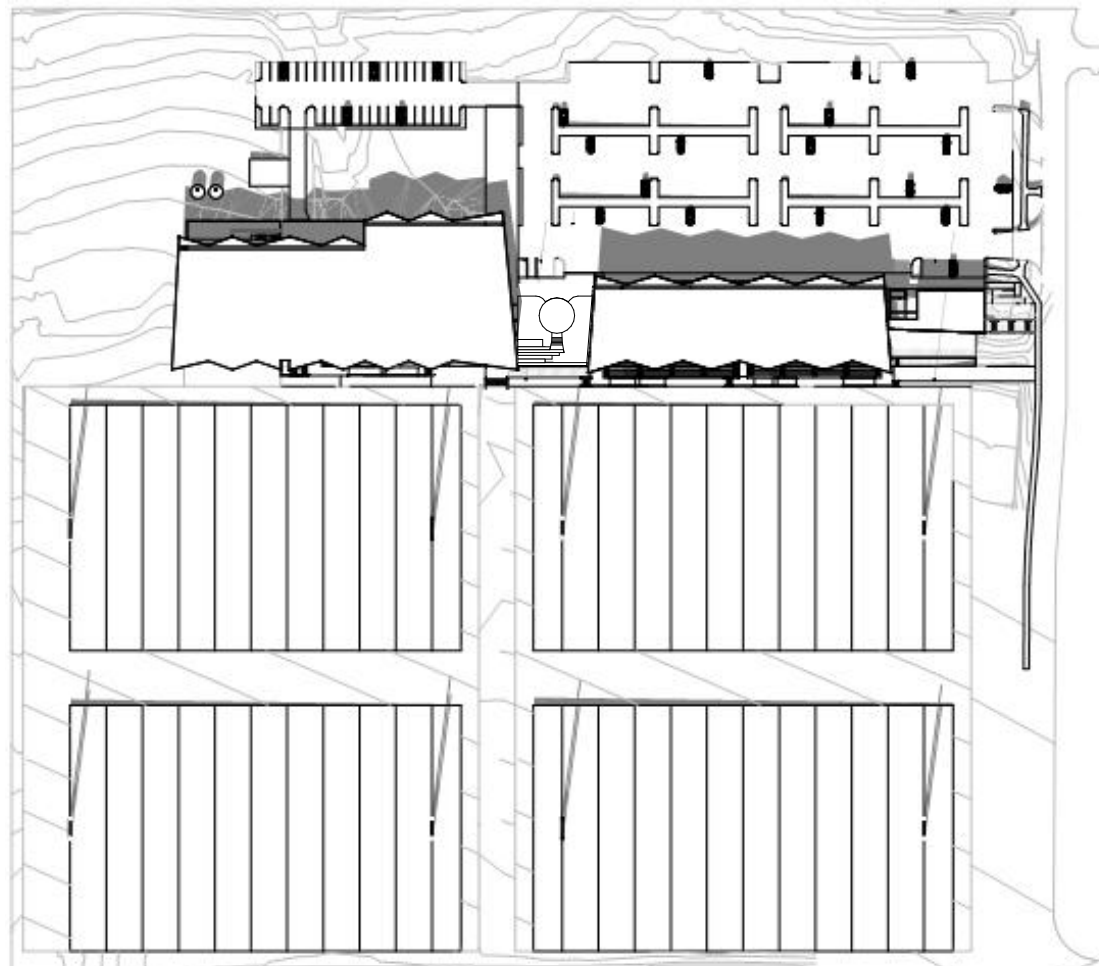
LEGEND



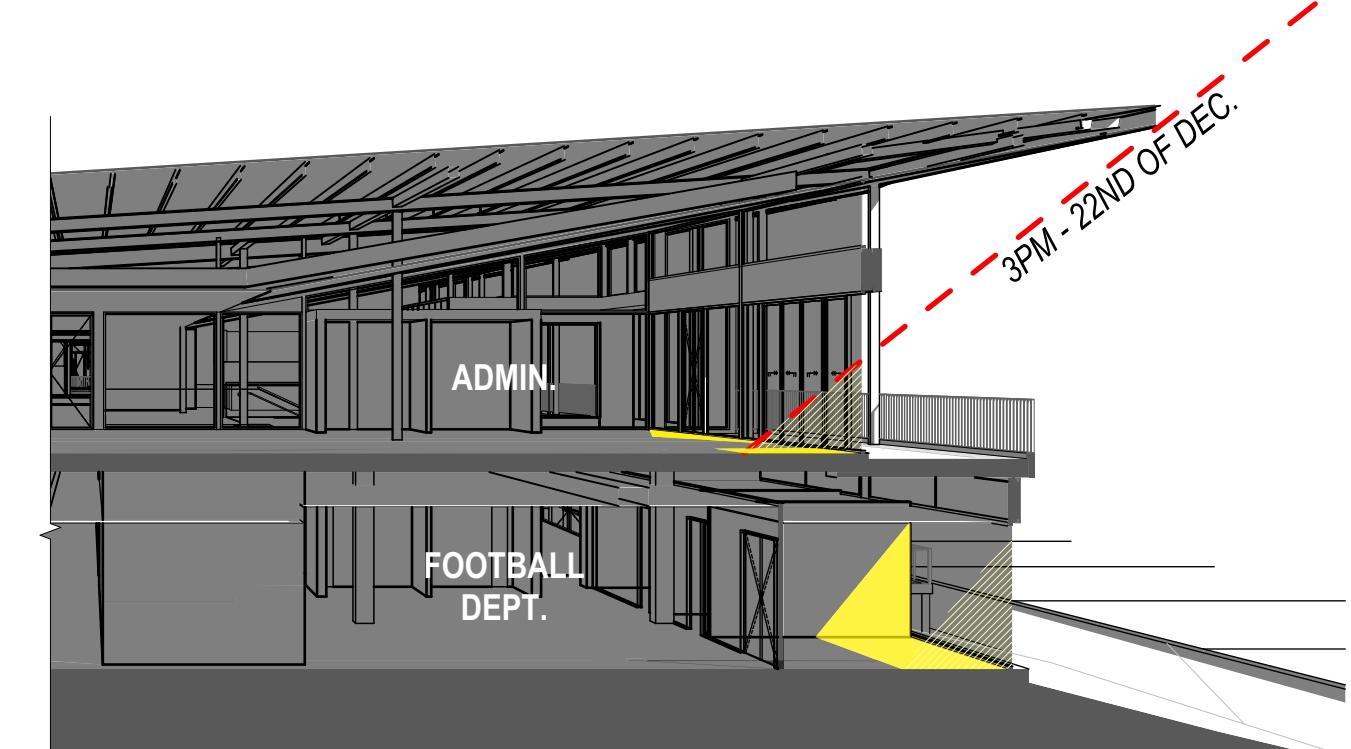
LOW SOLAR ANGLES - IN SUMMER  
 3PM - 22 DEC.



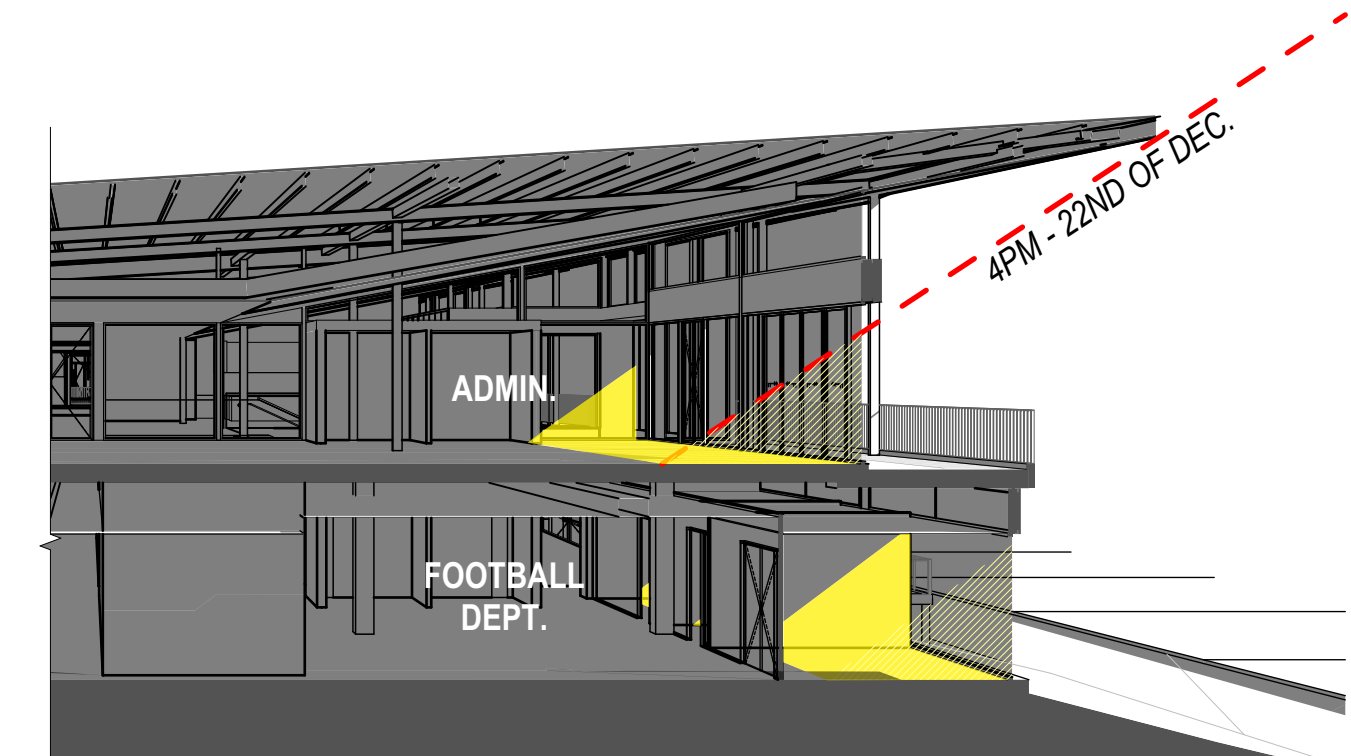
LOW SOLAR ANGLES - IN SUMMER  
 4PM - 22 DEC.



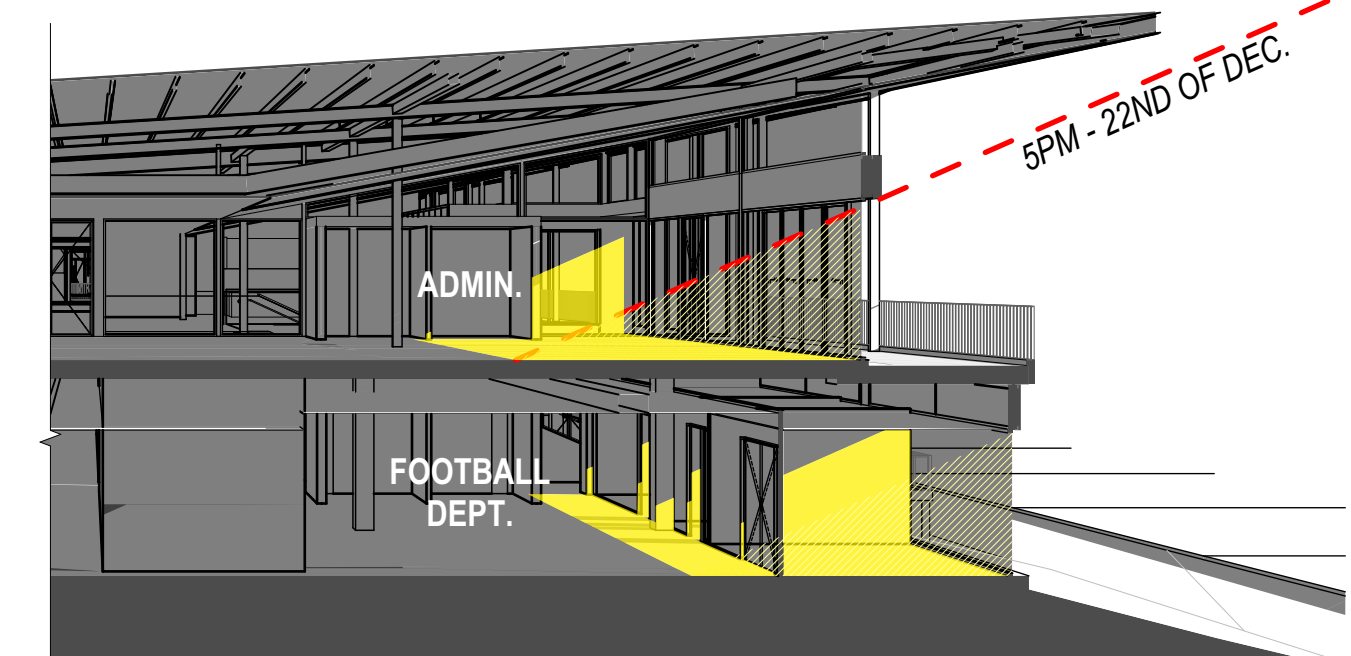
LOW SOLAR ANGLES - IN SUMMER  
 5PM - 22 DEC.



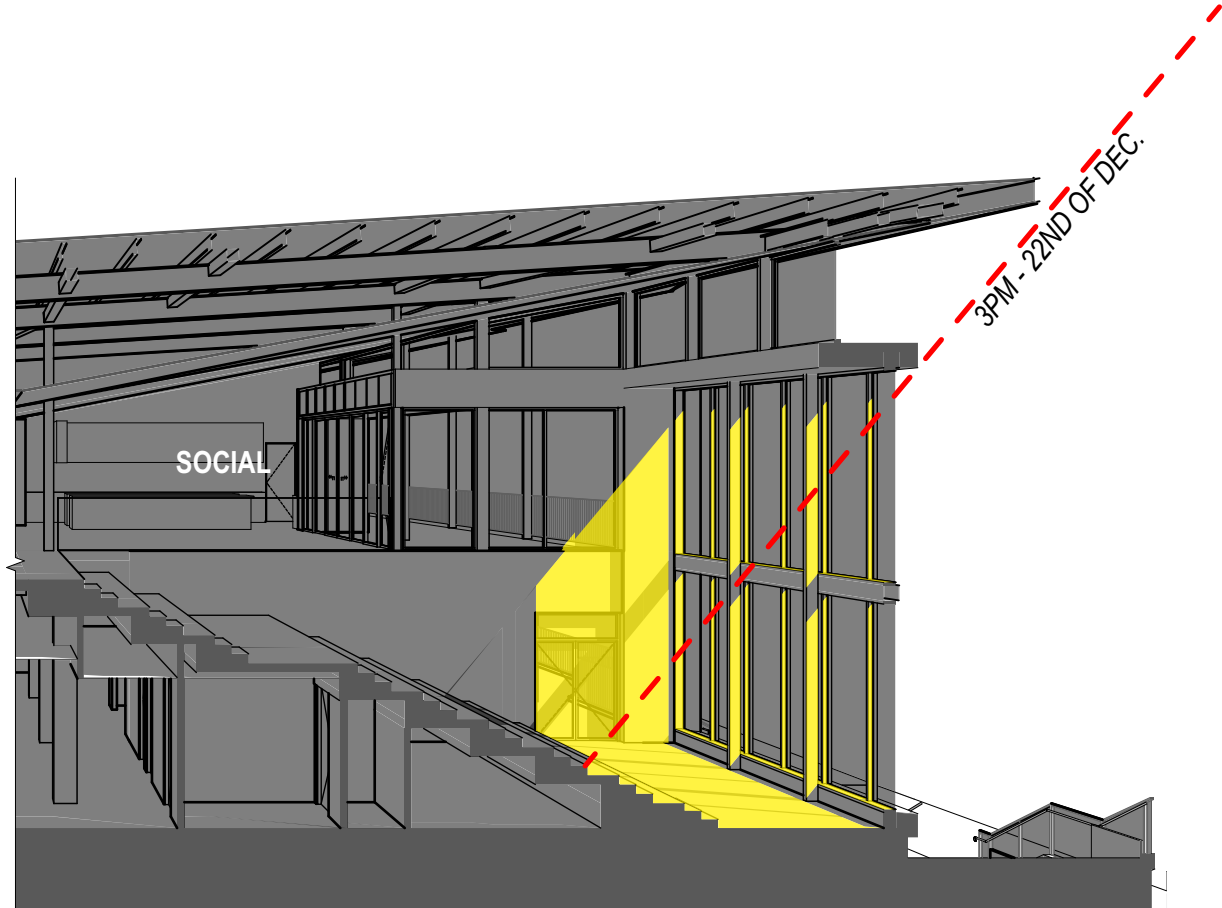
ADMIN. & FOOTBALL DEPT.  
 3PM - 22ND DEC.



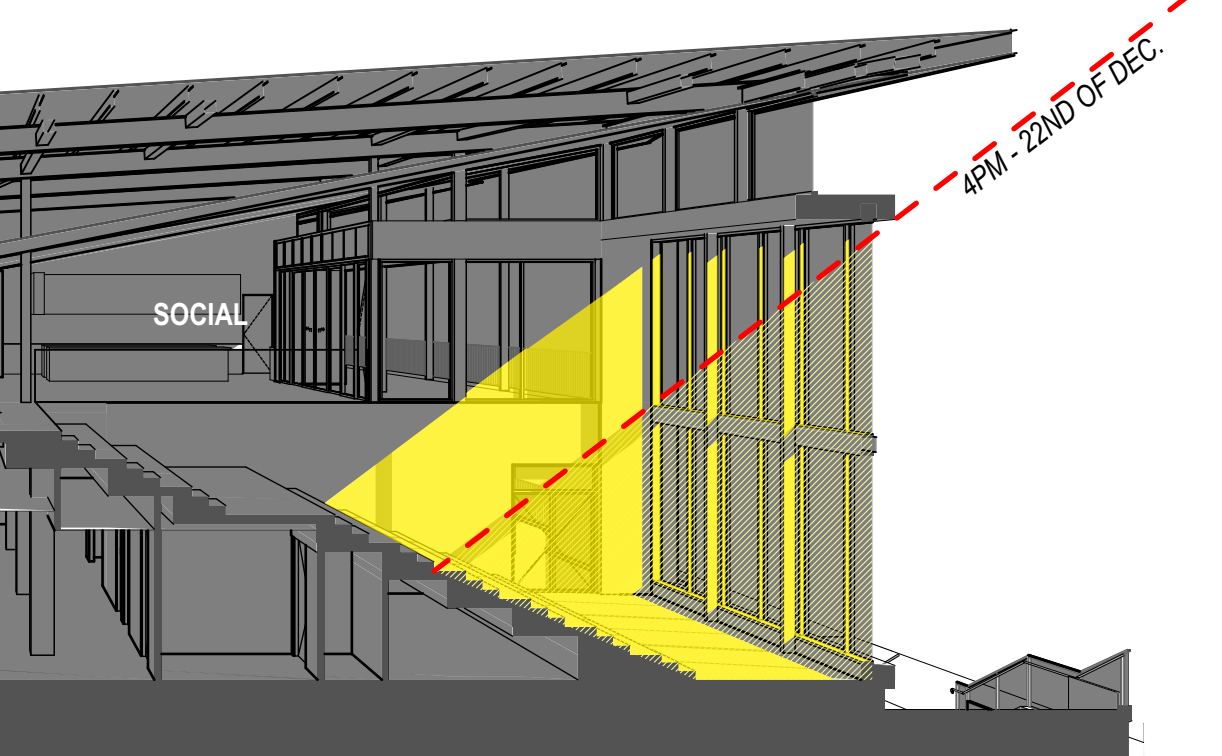
ADMIN. & FOOTBALL DEPT.  
 4PM - 22ND DEC.



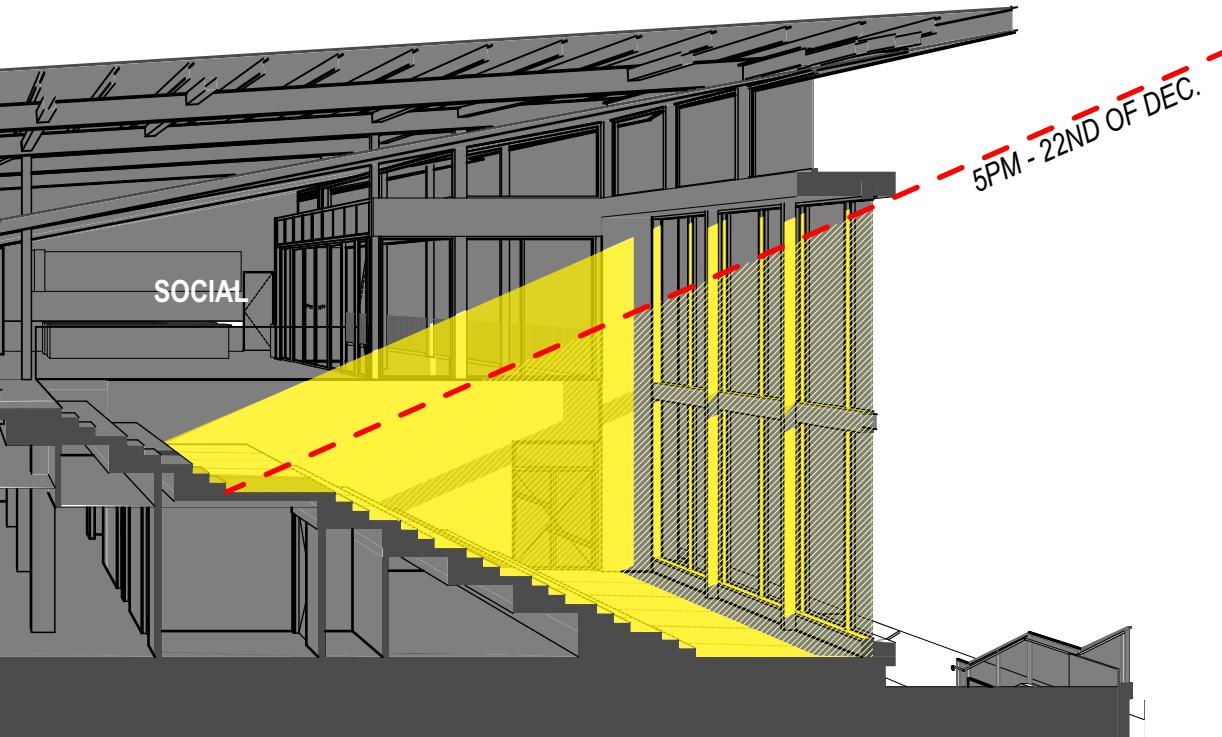
ADMIN. & FOOTBALL DEPT.  
 5PM - 22ND DEC.



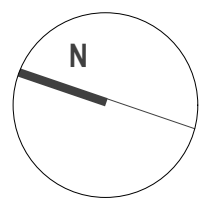
SOCIAL AREA  
 3PM - 22ND DEC.



SOCIAL AREA  
 4PM - 22ND DEC.



SOCIAL AREA  
 5PM - 22ND DEC.



KELLYVILLE PARK PNRL EELS - CENTRE OF  
 EXCELLENCE & COMMUNITY FACILITY  
 SOLAR ANGLES (DEC 22)

Client PARRAMATTA EELS  
 Scale @ A1  
 7/04/2022 SSDA - 'C'  
 email@hbarch.com.au

A43

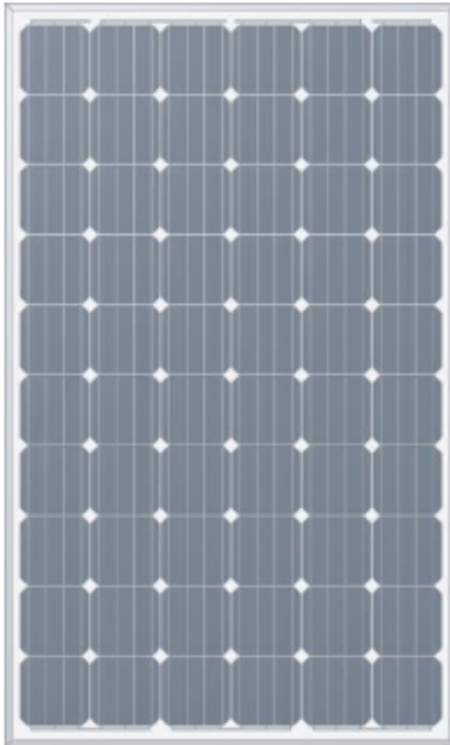


NATURAL ENVIRONMENT

INCLUDED IN THE PROPOSED SCOPE AND IN LINE WITH THE NSW NET ZERO PLAN:

- SOLAR PV
- ENERGY EFFICIENT HVAC AND LIGHTING SYSTEMS
- SEPERATION OF ORGANIC WASTE
- LOW EMISSIONS MATERIALS (CONCRETE AND STEEL).

**PV CELLS** FOR ONSITE RENEWABLE ENERGY SUPPLY ARE TO BE INCLUDED IN THE PROJECT SCOPE FOR BOTH THE COE AND CF BUILDINGS - COE 70KW (32 ARRAYS) AND CF 30KW (12 ARRAYS) ARE PROPOSED TO MEET THE CALCULATED BASE POWER LOAD DEMAND FOR EACH BUILDING.



SUSTAINABLE DESIGN PRINCIPLES FOLLOWING KEY ESD INITIATIVES

- HIGH PERFORMANCE INSULATION AND BUILDING ENVELOPE
- REDUCTION OF POTABLE WATER CONSUMPTION THROUGH EFFICIENT HIGH WELS RATED SANITARY FIXTURES AND APPLIANCES
- RECYCLING WASTE FACILITIES TO ENCOURAGE DIVERSION OF WASTE TO LANDFILL
- NATURAL DAYLIGHT TO INTERIOR OF BUILDING
- HIGH LEVEL OF INTERNAL ENVIRONMENT QUALITY
- RAINWATER COLLECTION FOR REUSE IN TOILETS AND IRRIGATION

CROSS FLOW VENTILATION

TAKING ADVANTAGE OF PASIVE DESIGN PRICIPLES, THE PLACEMENT OF OPENINGS (LOW-HIGH) ALLOWS THE BUILDING TO DRAW WIND FROM THE LOW OPEN FIELDS AND EXIT THE BUILDING FROM THE HIGHER STREET SIDE WINDOWS.

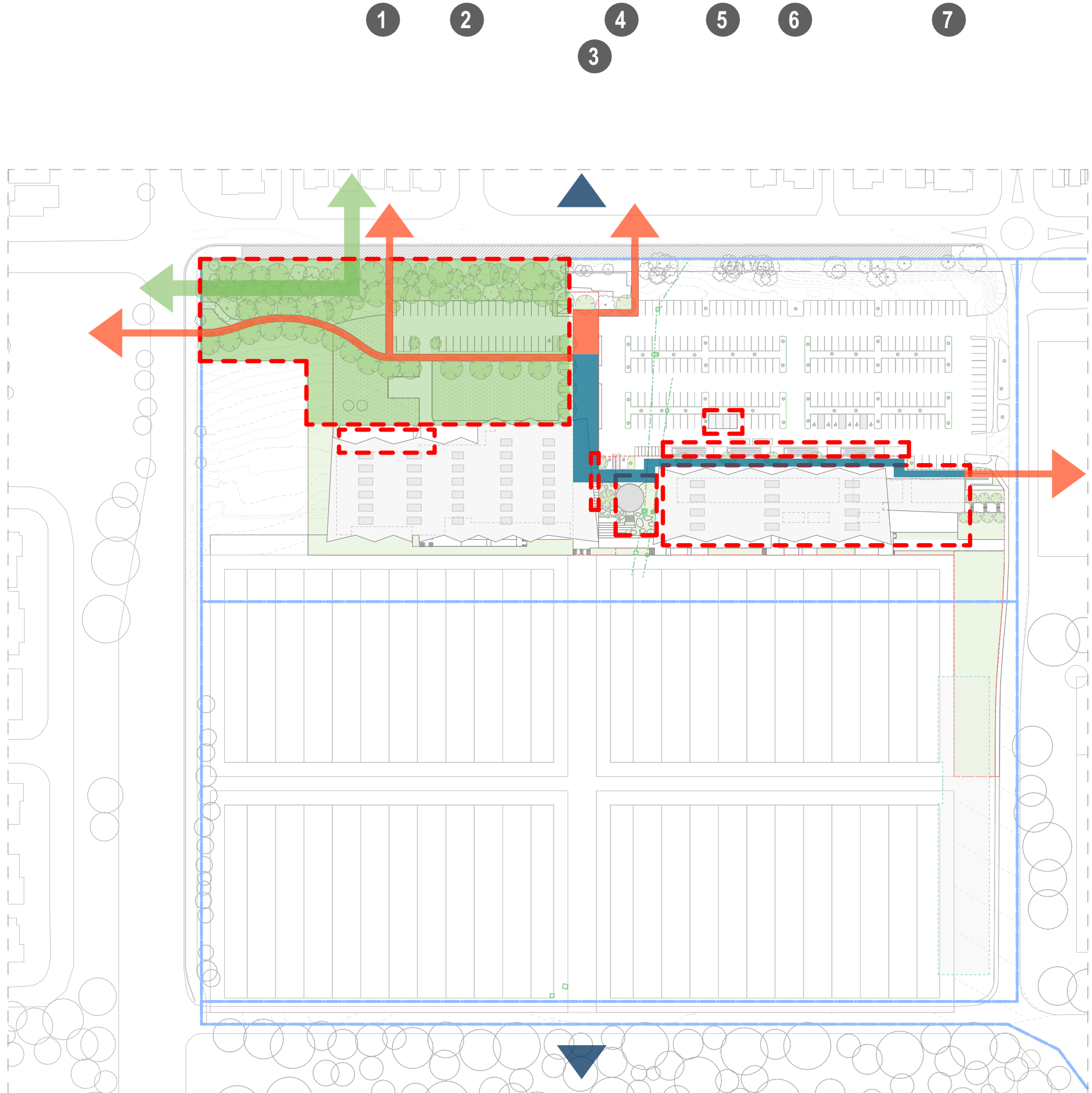
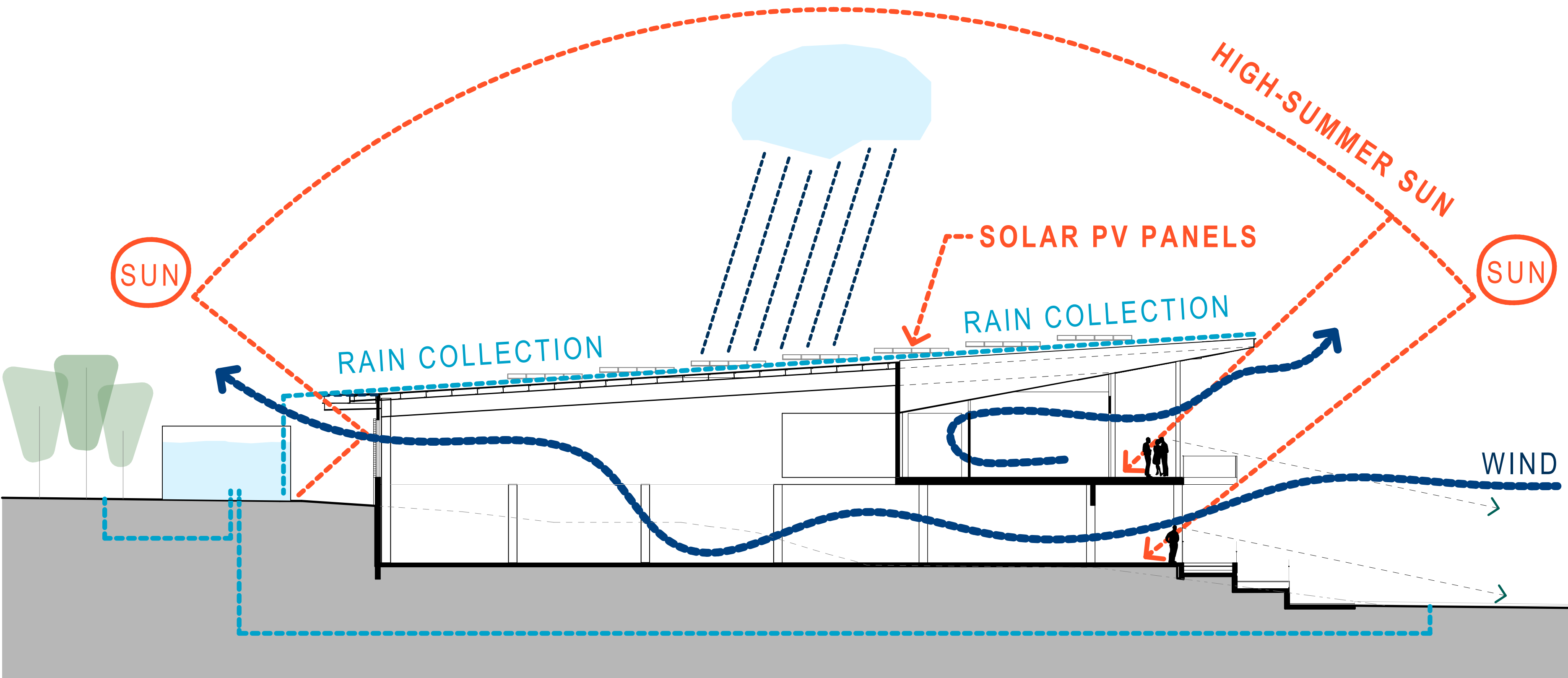
MATERIALS & CONSTRUCTION

BUILDING STRUCTURE FROM FIRST FLOOR SLAB LEVEL UPWARDS (ROOF FRAMING/WALL FRAMING) IS STEEL FRAME AND ABLE TO BE **DISASSEMBLED**.

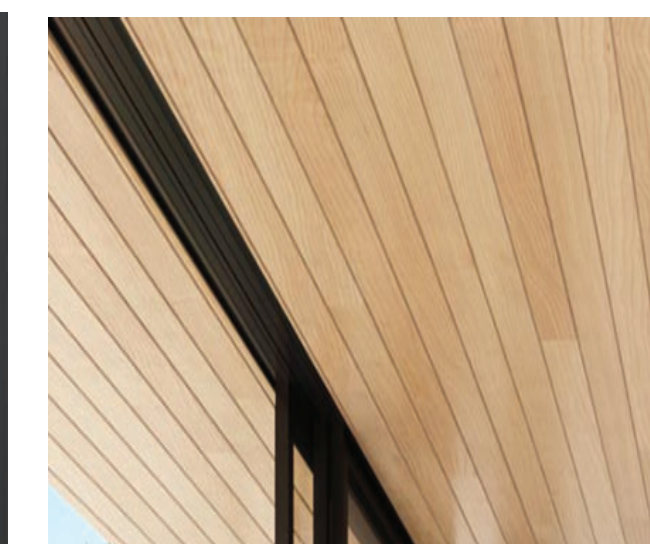
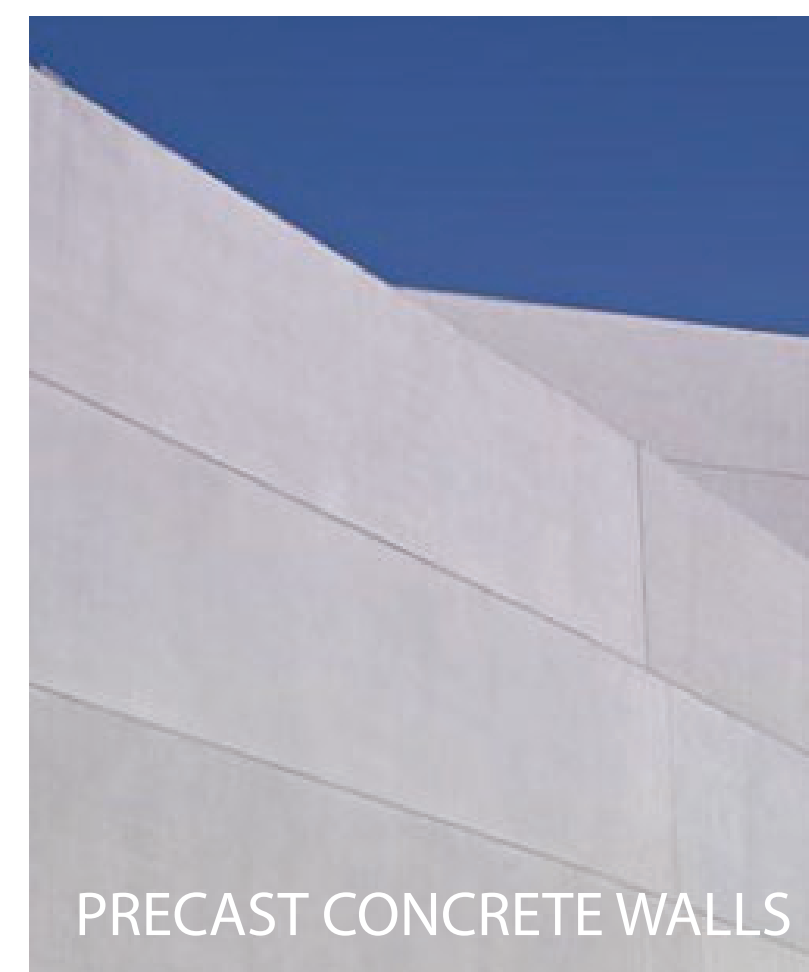
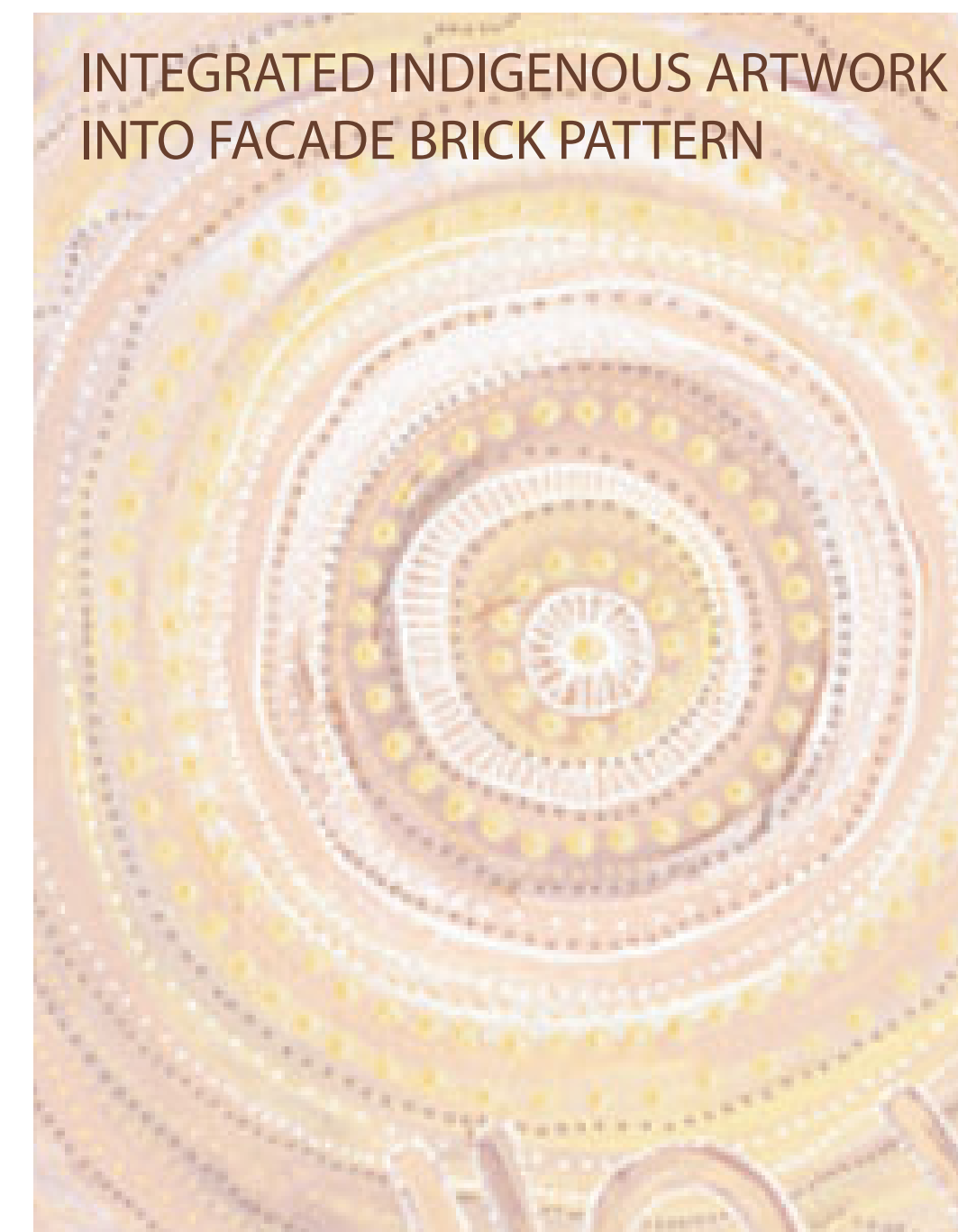
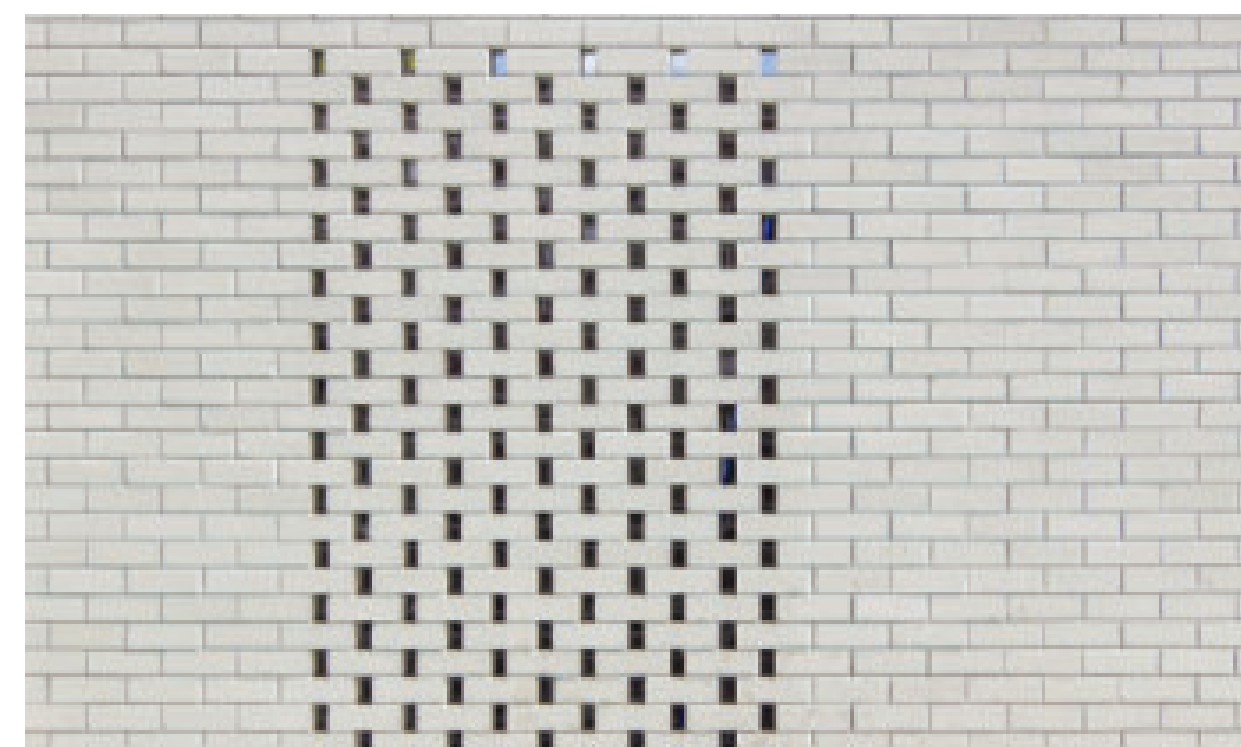
SOCIAL, CULTURAL & ENVIRONMENTAL

- 1 END OF TRIP FACILITIES
- 2 LANDSCAPING TO STREET EDGE + NEIGHBORHOOD
- 3 BICYCLE LOCKUP
- 4 INDIGENOUS ENGAGMENT AND CO-DESIGN
- 5 ELECTRIC CAR CHARGING STATION
- 6 BUS DROP-OFF ZONES FOR PUBLIC TRANSPORT

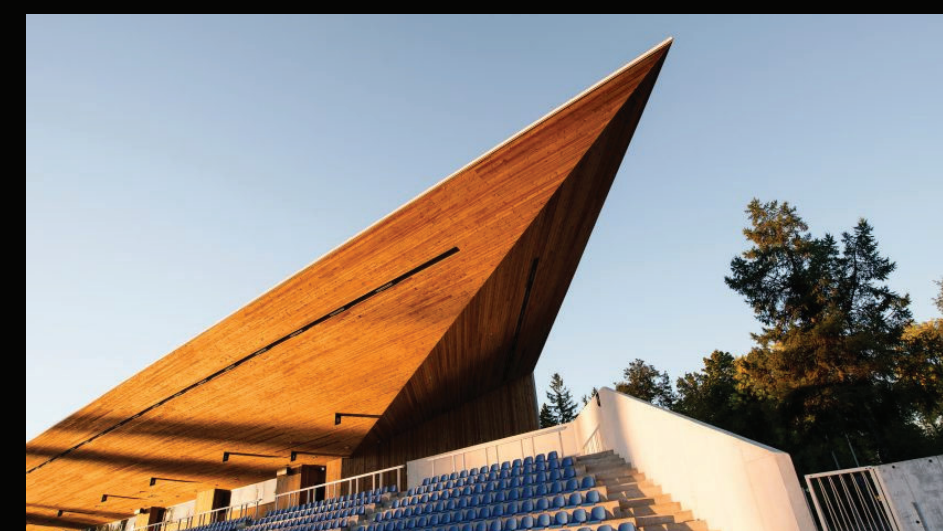
- 7 COMMUNITY FACILITIES
- CYCLIST AND PEDESTRIAN SHARE ZONES
- CYCLIST AND PEDESTRIAN MOVEMENT THROUGH SITE
- ▲ STRONG CONNECTIONS THROUGH SITE
- SITE OPEN TO SURROUNDS - NO FENCES







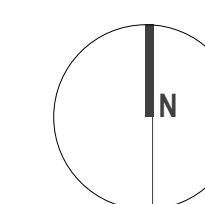
## REFERENCE IMAGERY



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HB ARCH ARCHITECTURE & PLANNING

### LEGEND



KELLYVILLE PARK PNRL EELS - CENTRE OF EXCELLENCE & COMMUNITY FACILITY

EXTERNAL MATERIAL PALETTE

Client  
Scale  
7/04/2022

PARRAMATTA EELS  
@ A1  
SSDA - 'C'  
email@hbarch.com.au

A45









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HB ARCH ARCHITECTURE & PLANNING

LEGEND

KELLYVILLE PARK PNRL EELS - CENTRE OF  
EXCELLENCE & COMMUNITY FACILITY

EXTERNAL IMAGE 02

Client  
Scale  
7/04/2022

PARRAMATTA EELS  
@ A1  
SSDA - 'C'  
email@hbarch.com.au

A47







