

WALSENBURG WELLNESS CENTER

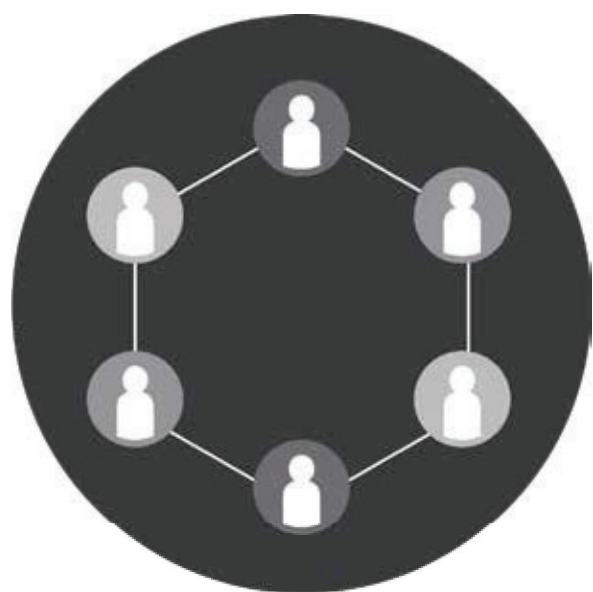
SEEK STRENGTH THROUGH EVERY PHASE OF HEALTH

ZOE GRISWOLD + GERMAINE LOW



MENTAL HEALTH

There is a severe need for facilities for mental health and wellness. At the Walsenburg Wellness Center we have introduced a special overnight facility to better equip the community to handle a mental health crisis.



COMMUNITY

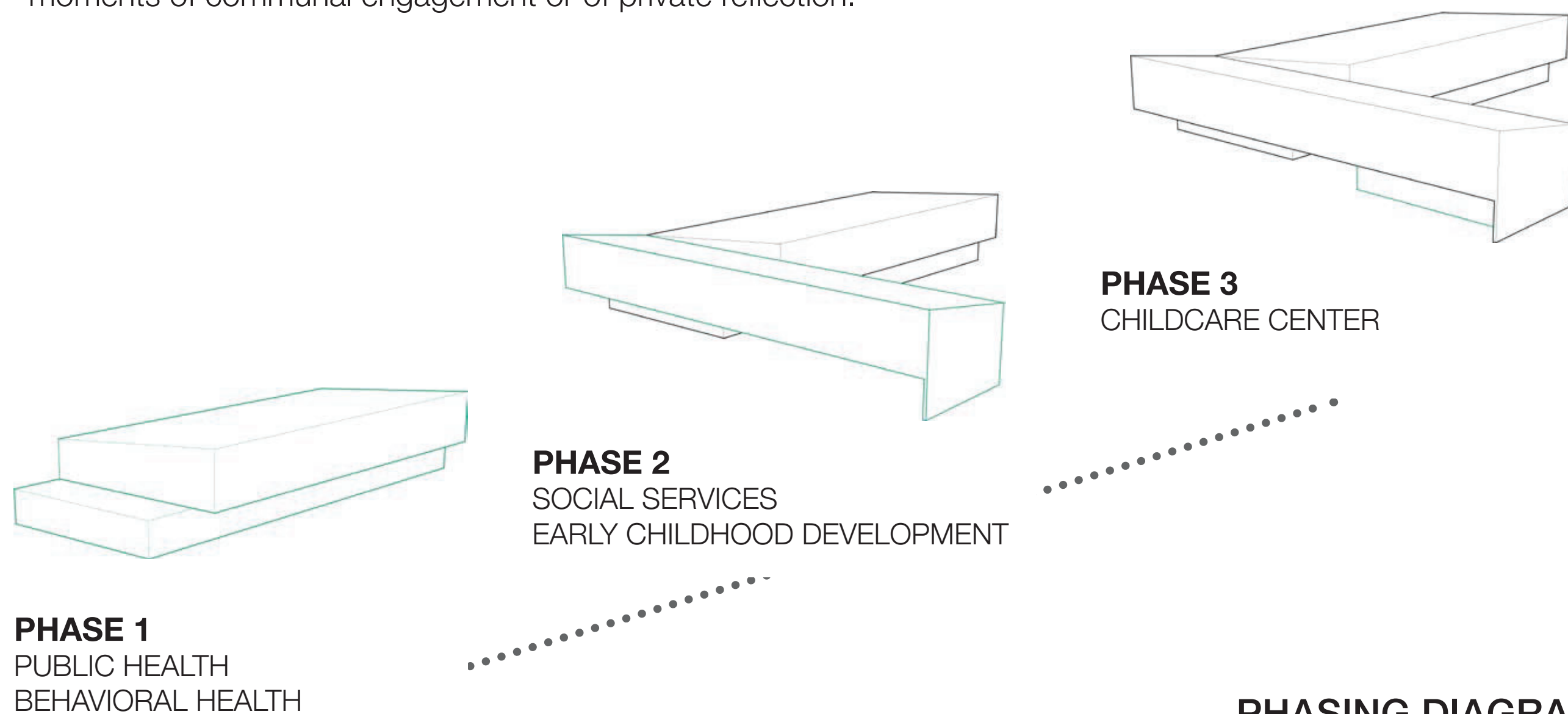
Community is one of Walsenburg's great strengths. The center embodies and promotes this community spirit by providing ample space for community classes and gatherings, to further educate and enrich its community members.



MITIGATION

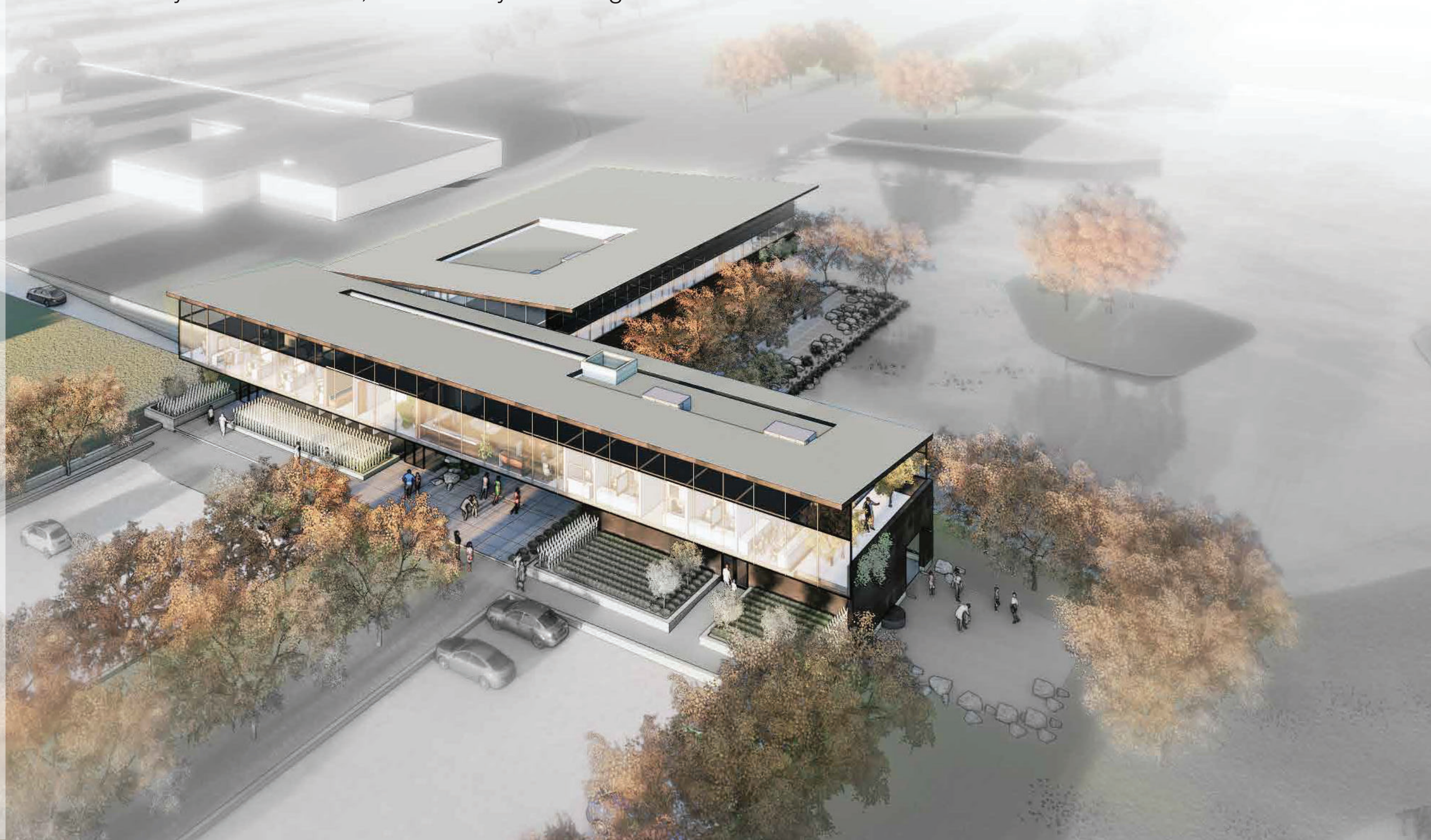
Our key flood mitigation strategy a berming system in landscape behind the main building site. This system effectively forms a retention pond that will contain flood water coming in from Cucharas River during a major flood event.

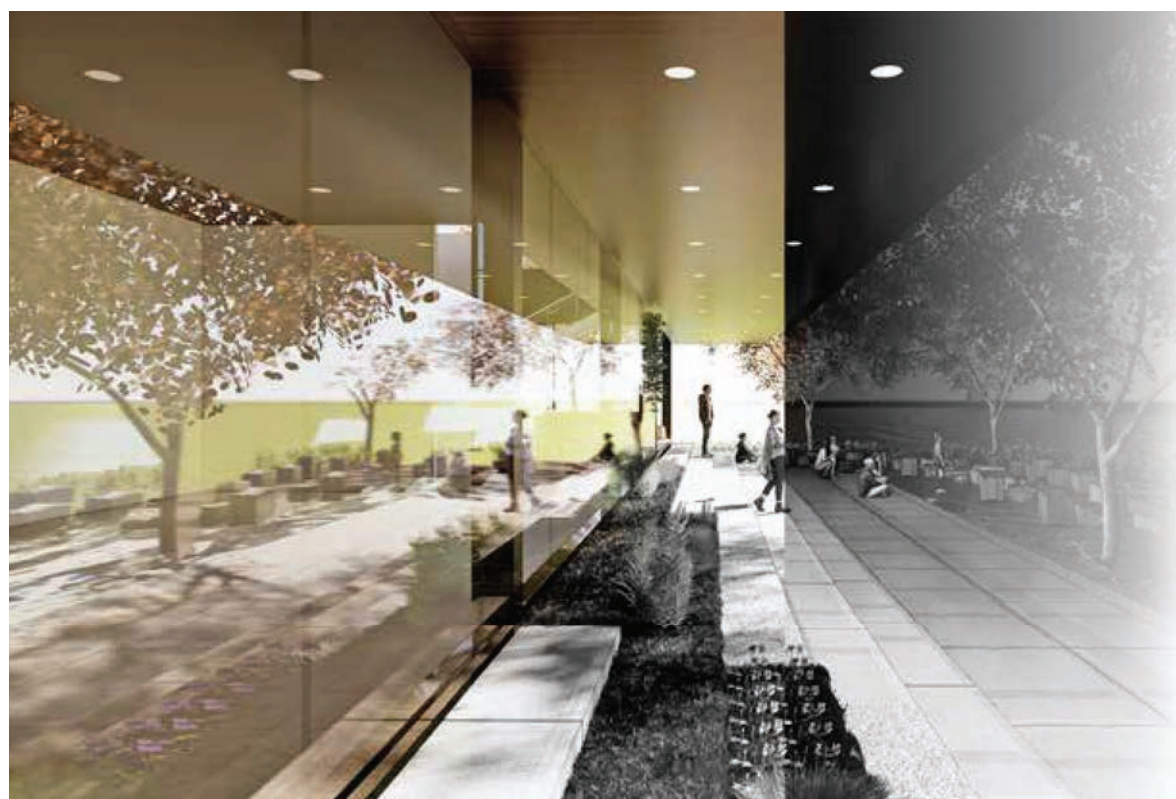
Navigating mental health and treatment is by no means a straight forward, one-stop shop process. There are, and can be, many phases to the treatment and recovery. Going through each phase can be confusing and intimidating, but the new wellness center will be there to guide you through each step, and each phase, while allowing for moments of communal engagement or of private reflection.



PHASING DIAGRAM

The Walsenburg Wellness Center is designed to be conceived in a total of three phases, based on programmatic priority of the various Public Health departments. Between phases 2 and 3 a roof structure has been created under the long, frontmost bar which will allow for curtain walls to be erected in place for childcare center in phase 3. The building design, landscape design and programming embody three core values integral to the Walsenburg community: Mental Health, Community and Mitigation.

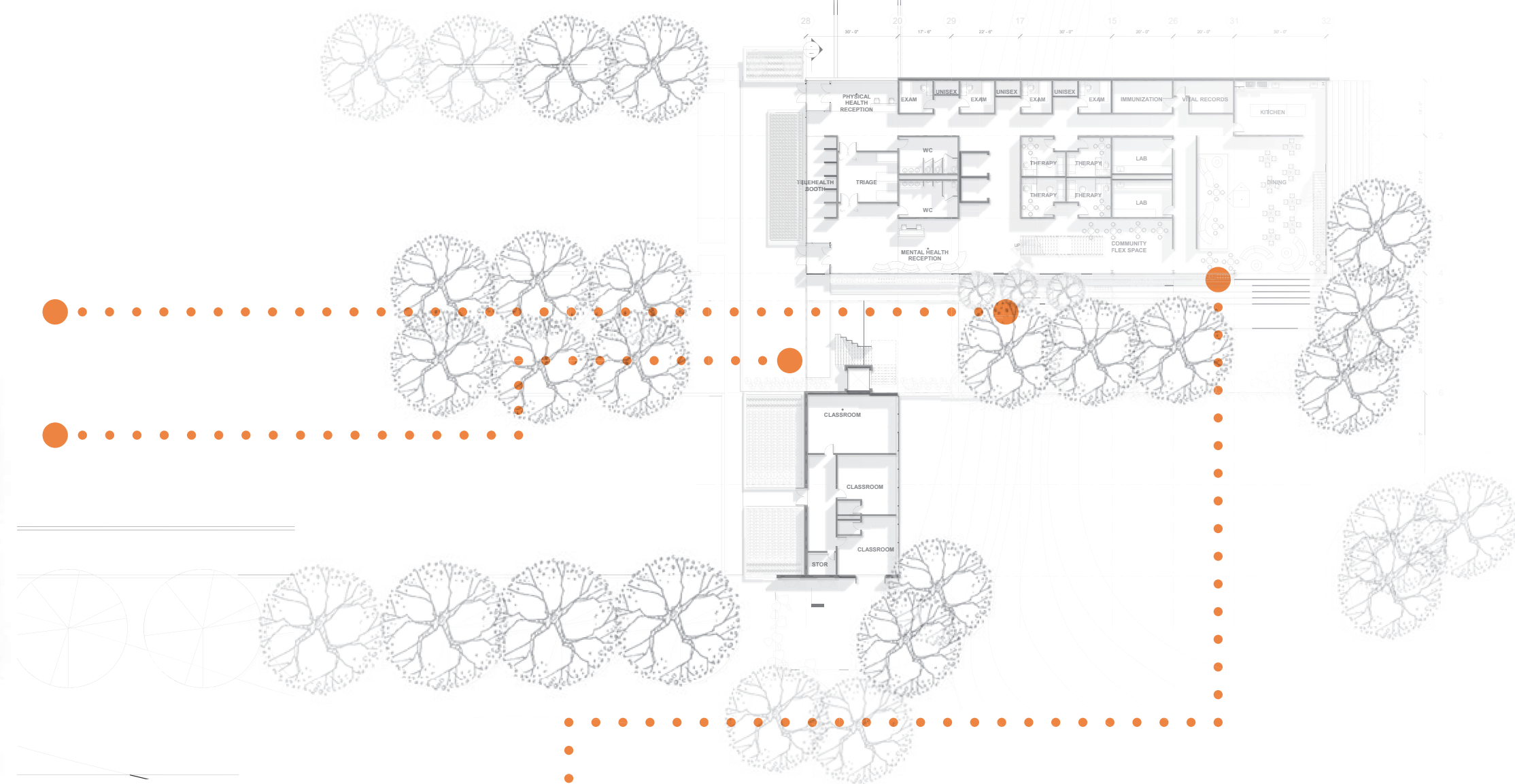




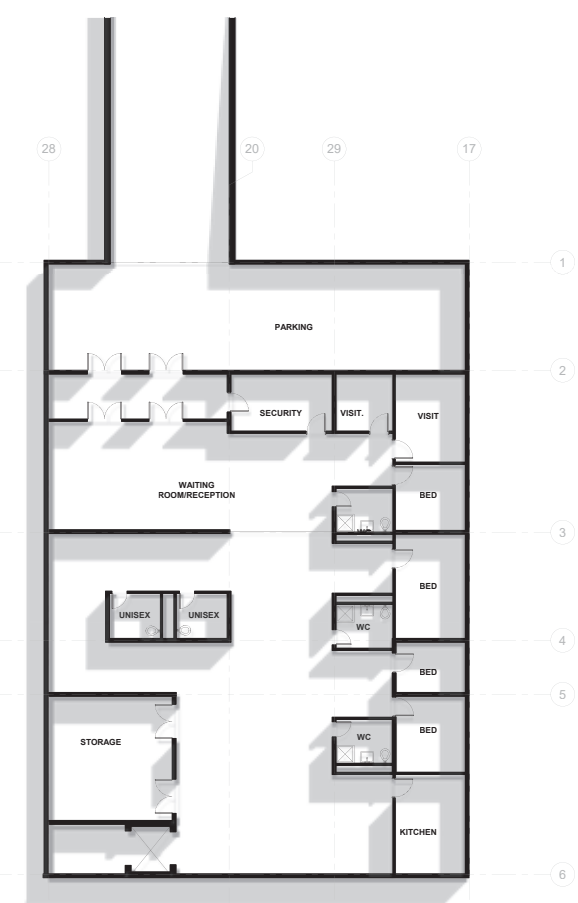
The Walsenburg Wellness Center is designed to be an efficient and cohesive facility for public health and the community. The center's function as a threshold is two-fold - it is a threshold to wellness and stability, and a threshold between the realms of fabrication and nature. The building is composed of two interlocking bars, with program elements that glide past each other.



SECOND FLOOR PLAN
SCALE: 3/64" = 1'-0"



FIRST FLOOR PLAN
SCALE: 3/64" = 1'-0"



BASEMENT FLOOR PLAN
SCALE: 3/64" = 1'-0"

ELEVATIONS & DETAILS

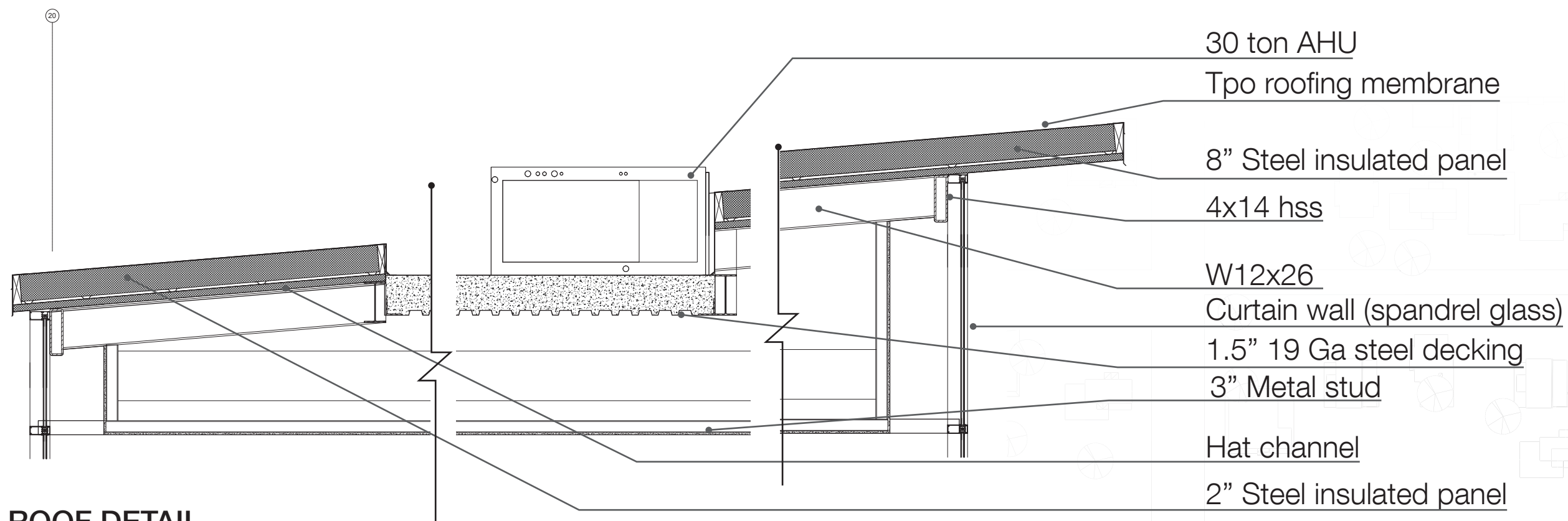
FLOOD MITIGATION & STRUCTURAL DESIGN



WEST ELEVATION

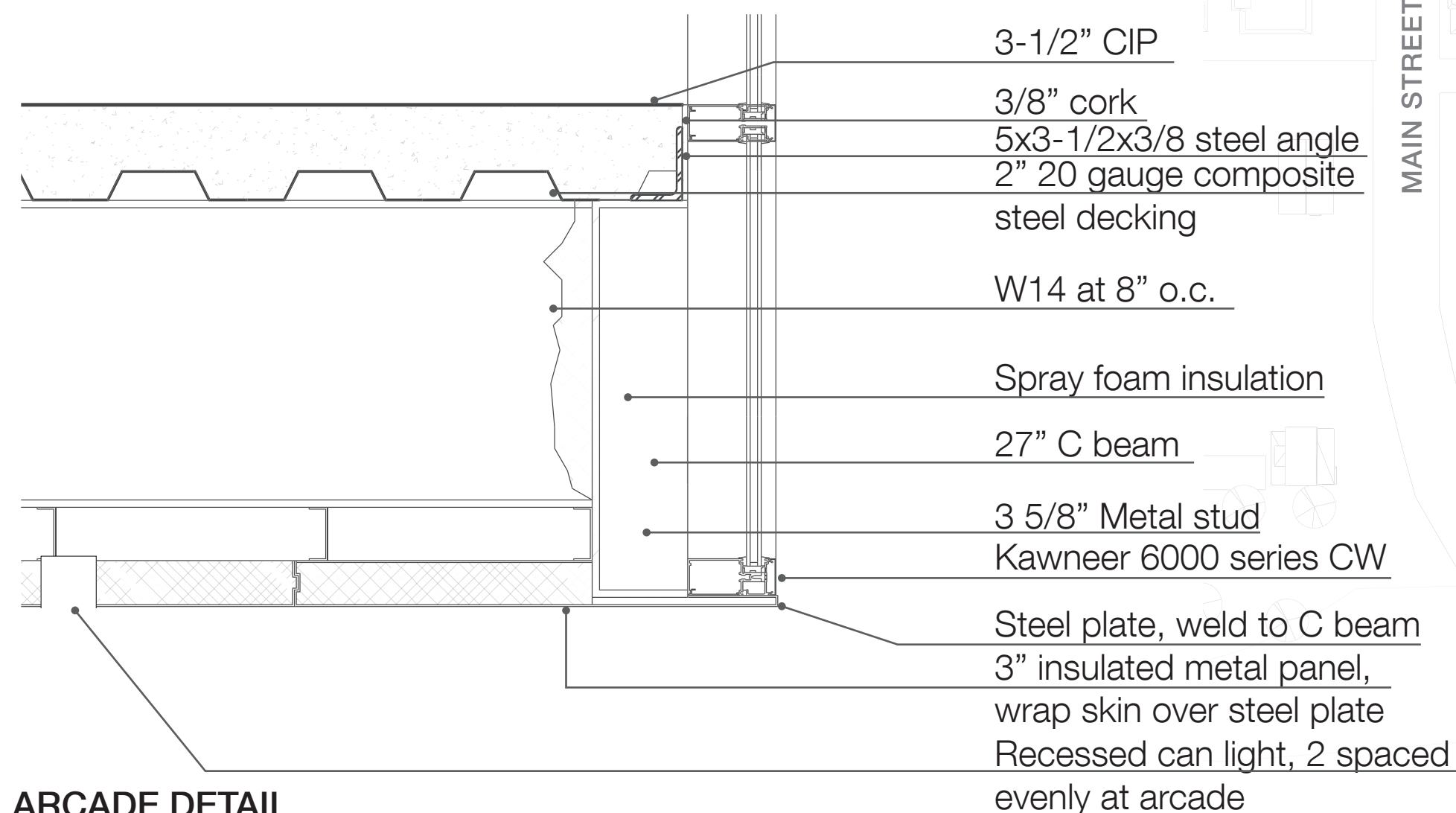


NORTH ELEVATION



ROOF DETAIL

- 30 ton AHU
- Tpo roofing membrane
- 8" Steel insulated panel
- 4x14 hss
- W12x26
- Curtain wall (spandrel glass)
- 1.5" 19 Ga steel decking
- 3" Metal stud
- Hat channel
- 2" Steel insulated panel



ARCADE DETAIL

- 3-1/2" CIP
- 3/8" cork
- 5x3-1/2x3/8 steel angle
- 2" 20 gauge composite steel decking
- W14 at 8" o.c.
- Spray foam insulation
- 27" C beam
- 3 5/8" Metal stud
- Kawneer 6000 series CW
- Steel plate, weld to C beam
- 3" insulated metal panel, wrap skin over steel plate
- Recessed can light, 2 spaced evenly at arcade

STRATEGIES

MASS BALANCE

> Optimizing the reuse of excavated masses on site with a cut and fill strategy

RETENTION POND

> A berming system will be introduced to the landscaping east of the building. This berming system creates a dry and wet retention pond that is designed to contain storm and flood water coming in from the the Cucharas River south of the building site.

FOCUSED PLANT SELECTION

> Using native local plant species that can naturally thrive in the environment to ease the burden on maintenance

TENSILE STRENGTH

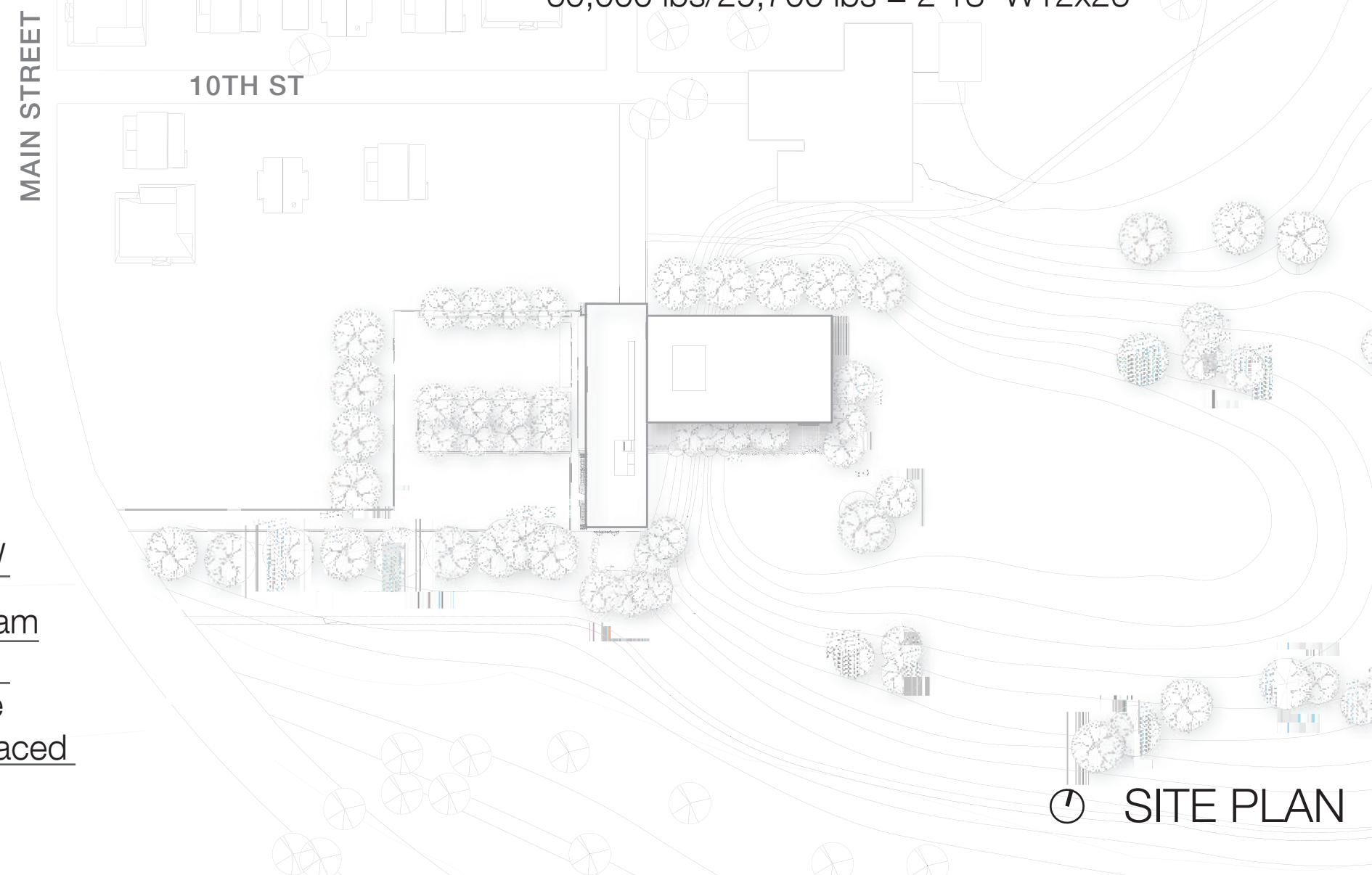
> In order for the steel roof to support such a large quantity of air handling units, 2 W12x26 steel beams spanning 18 feet were used to handle the load of 5 30 ton air handling units. In order to account for the added weight of the roof structure, 2 4x14 HSS members were also used.

AHU CAPACITY

Climate zone 3 = 40-50 BTU/sf
 $34,008.76 \text{ sf}(50) = 1,700,438 \text{ BTU}$
 $1 \text{ ton AHU} = 12,000 \text{ BTU/hr}$
 $1,700,438 \text{ BTU}/12,000 = 141.7 \text{ tons}$
 $141.7 \text{ tons}/30 \text{ ton AHU} = 5 \text{ AHUs}$

STEEL LOAD

$30 \text{ tons} = 60,000 \text{ lbs}$
 $60,000 \text{ lbs}/29,700 \text{ lbs} = 2 \text{ } 18' \text{ W12x26}$



SITE PLAN

SECTIONS & MATERIALS



NORTH-SOUTH SECTION I
SCALE: 1/16" = 1'-0"



NORTH-SOUTH SECTION II
SCALE: 1/16" = 1'-0"

