

Sun Valley Healthy Living Initiative Design Guidelines—

Sun Valley Healthy Living Initiative

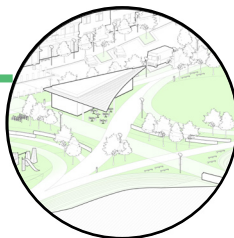
HEALTHY DESIGN GUIDELINES

The Sun Valley Healthy Living Initiative (HLI) focuses action around health determinants in the built environment and areas that the Denver Housing Authority can influence that have been proven to increase healthy choices. The (HLI) puts public health research and data to work, side by side with resident experience, to drive decisions in the Sun Valley EcoDistrict (SVED) redevelopment process and improve opportunities for healthy living. A Baseline Needs Assessment report and a Healthy Living Action Campaigns document precede and inform these Design Guidelines, which focus on specific built environment strategies for new development in the EcoDistrict.

Design Guidelines are categorized into four main areas: Public & Open Space, Site, Street, and Building, and intend to act as a health-focused supplement to overall Sun Valley EcoDistrict design guidelines. Graphic guidelines per category are followed by resources and partner indexes for each, that connect back to the HLI Health Action Campaigns document.

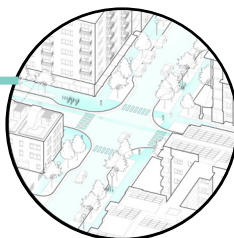
PUBLIC & OPEN SPACE

Guidelines focus on social mixing, active recreation, multi-modal transit, healthy landscapes, & safety



STREET

Guidelines focus on traffic calming, pedestrian-focused design, wayfinding, & multi-modal transit

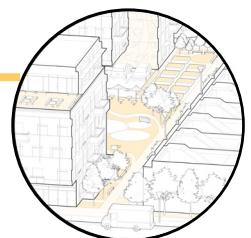


ECODISTRICT - overarching healthy design guidelines

- LOCATE AFFORDABLE & FRESH FOODS / GROCERY STORES WITHIN WALKING DISTANCE
- PROVIDE SPACES AND PROGRAMS THAT FOSTER SOCIAL CONNECTIONS FOR YOUTH
- PROVIDE SPACE AND PROGRAMS FOR HEALTH CARE AND CLASSES. INCLUDE PHYSICAL AND BEHAVIORAL HEALTH OFFERINGS
- INCORPORATE INCUBATOR SPACE FOR SMALL BUSINESSES & STARTUPS, PRIORITIZING EXISTING RESIDENTS WITHIN THE SPACE
- INCORPORATE FOOD-RELATED PROGRAMMING VIA GROW GARDEN; FOOD SERVICE CLASSES; HEALTHY & CULTURALLY RELEVANT COOKING CLASSES
- PROVIDE SPACE FOR JOB SERVICES & TRAINING PROGRAMS WITHIN NEW DEVELOPMENT
- INCLUDE A VARIETY OF DESIGN AND HOME CHOICES
- TARGET >10% UNIVERSALLY-DESIGNED RESIDENTIAL UNITS THROUGHOUT DEVELOPMENT
- INCORPORATE ART IN FIRST/EARLY CONSTRUCTION PHASES
- CREATE TEMPORARY MURALS AND INTERACTIVE ART INSTALLATIONS WITH RESIDENTS DURING CONSTRUCTION AND RELOCATION PROCESS
- INVOLVE RESIDENTS & YOUTH IN THE PHASED DESIGN OF THE DEVELOPMENT. TEST DESIGN AND ENGAGEMENT STRATEGIES FOR BEST PRACTICES.
- REDUCE PARKING HARDSCAPE; DESIGN PARKING TO MITIGATE HEAT W/ STADIUM REDEVELOPMENT

SITE

Guidelines focus on community gardening, social spaces, outdoor access & recreation, & unit variety



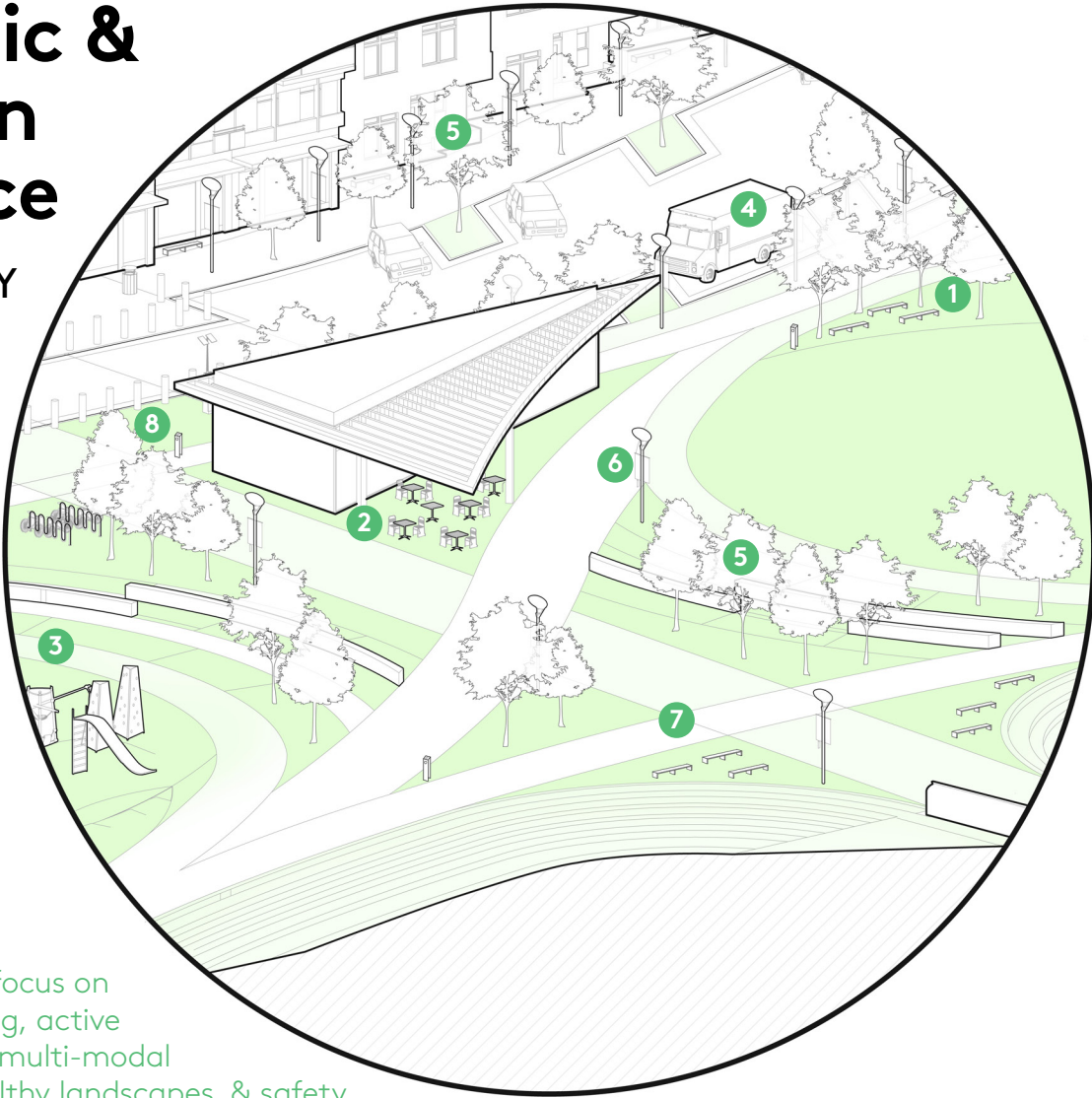
BUILDING

Guidelines focus on ground floor activity & programming, active stairs, & biophilic principles



Public & Open Space

HEALTHY DESIGN GUIDELINES:

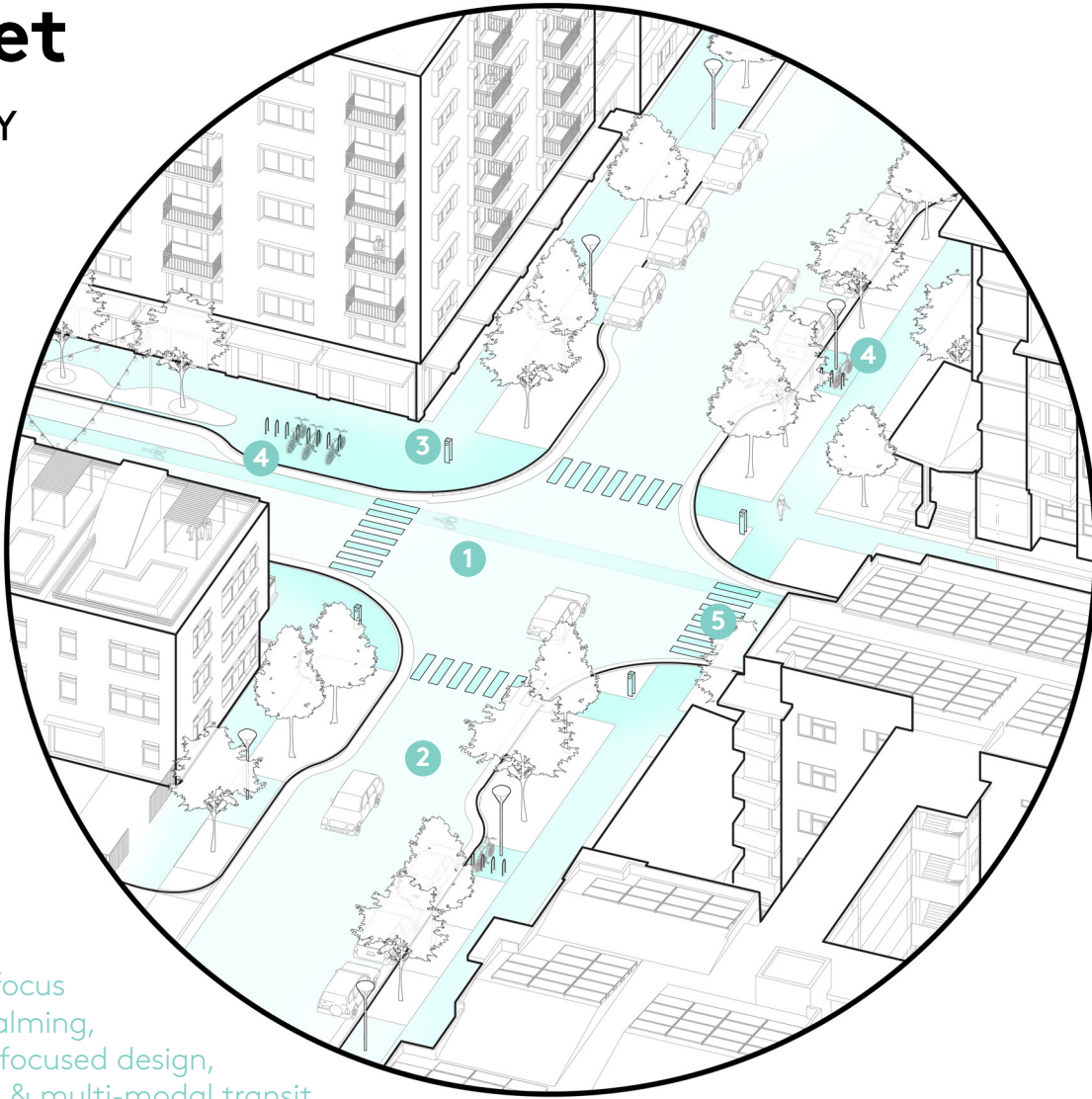


Guidelines focus on social mixing, active recreation, multi-modal transit, healthy landscapes, & safety

- 1 INTEGRATE INDOOR / OUTDOOR QUIET AND CONTEMPLATIVE SPACES THROUGHOUT THE DEVELOPMENT
- 2 PROMOTE SOCIAL MIXING THROUGH DESIGN OF PUBLIC SPACES & RESIDENTIAL BUILDINGS
- 3 CREATE INTERGENERATIONAL SPACES THROUGH PROGRAM COMBINATIONS & PUBLIC SPACE ACCESS
- 4 ACCOMMODATE ON-SITE TRANSIT TO ACCESS HEALTH SERVICES, CONSIDER VAN SERVICES
- 5 INCREASE URBAN CANOPY COVER IN THE DISTRICT BY (15)%, FOCUSING ON HOTSPOTS; INCORPORATE HIGH-ALBEDO ROOFING, & LIMIT IMPERVIOUS SITE SURFACES TO REDUCE URBAN HEAT ISLANDS
- 5 SELECT TREES THAT PROMOTE SHADE, POLLUTANT UPTAKE, AIR FILTRATION, AND MEET CPTED VISIBILITY GUIDELINES
- 6 PROVIDE SAFETY IMPROVEMENTS AND LIGHTING FOR SOUTH PLATTE TRAIL
- 7 SEPARATE AREAS FOR BIKES AND PEDESTRIANS, PATH WIDTHS TO ACCOUNT FOR STROLLERS, WHEELCHAIRS, LARGER FAMILIES
- 8 ENSURE EQUAL ACCESS AND EXPERIENCE TO ALL PUBLIC & OPEN SPACES THROUGH DESIGN, INCLUDING ACCESSIBLE TRAILS AND AUDITORY WAYFINDING
- INCORPORATE OPEN SIGHT LINES IN OPEN SPACE DESIGNS
- CONSULT WITH COMMUNITY ABOUT LIGHTING IN PUBLIC SPACES, CONSIDER SAFETY IN LIGHTING DESIGN
- DURING CONSTRUCTION, MAINTAIN ACCESS TO EXISTING PLAYGROUND, COMMUNITY CENTER, AND TRAIL ALONG RIVER
- DURING CONSTRUCTION, PROVIDE TEMPORARY PUBLIC SPACES AND PLAYGROUNDS

Street

HEALTHY DESIGN GUIDE- LINES

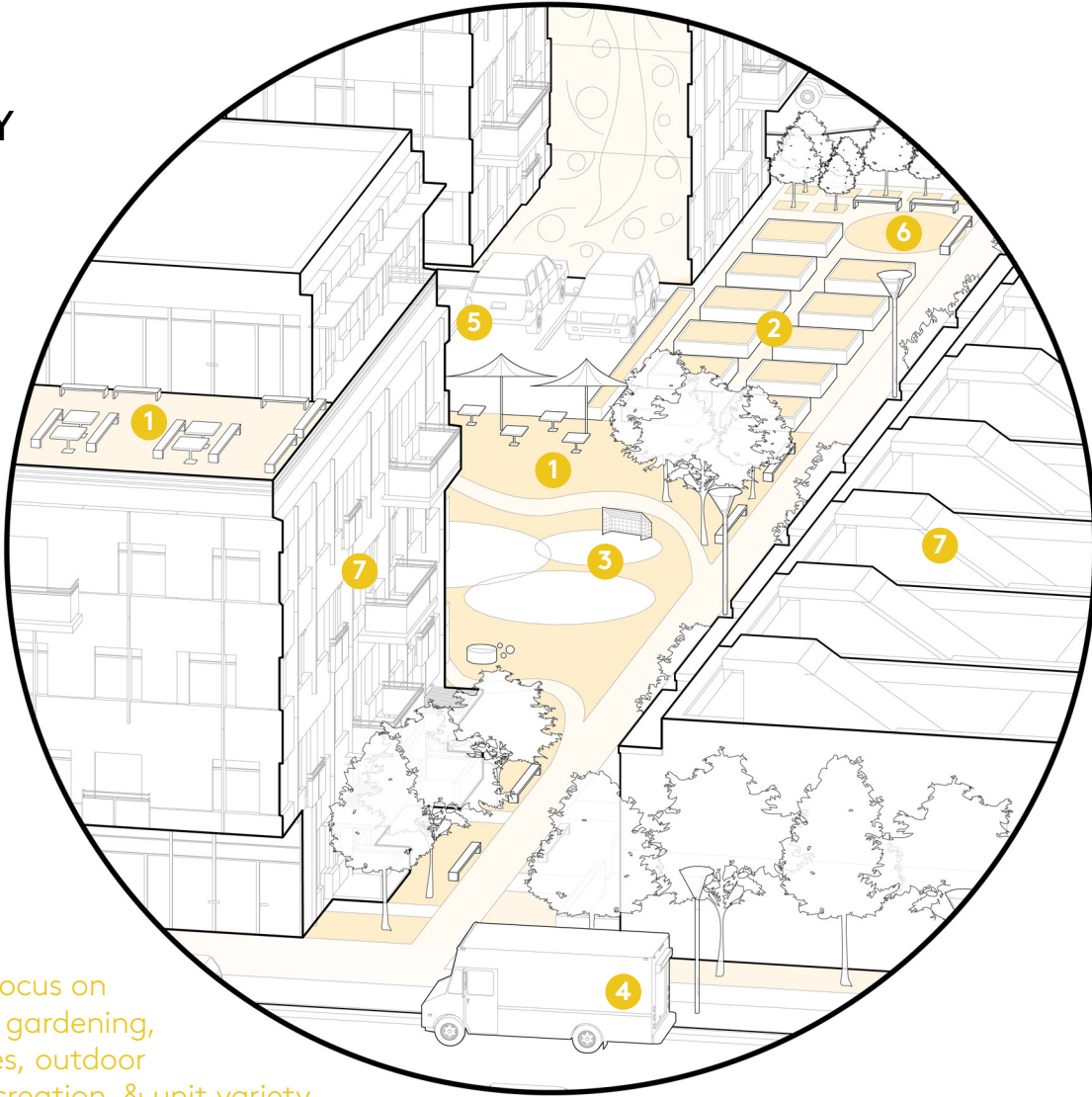


Guidelines focus
on traffic calming,
pedestrian-focused design,
wayfinding, & multi-modal transit

- 1 IMPLEMENT TRAFFIC CALMING AND CONTROL MEASURES AT HOT SPOTS. PRIORITIZE RIVERFRONT DRIVE NEAR SCHOOL AND INTERSECTIONS AT 9TH, 11TH, 13TH, AND DECATUR. ADDRESS SPEEDS, STREET WIDTH AT CROSSINGS, AND STREET LANE DESIGN
 - 2 CONTROL SPEEDS ENTERING NEW NEIGHBORHOOD THROUGH DESIGN.
 - 3 INCLUDE TACTILE AND AUDITORY WAYFINDING AT KEY INTERSECTIONS AND PUBLIC SPACES
 - 4 INCORPORATE SPACES FOR BIKE SHARING AND BIKE TRANSIT AT STRATEGIC POINTS IN THE DEVELOPMENT
 - 5 PRIORITIZE SAFE PEDESTRIAN / BICYCLE CONNECTIONS; DESIGN PEDESTRIAN-FOCUSED FEDERAL BLVD. CROSSINGS
- IMPROVE ACCESS TO SOUTHWEST AND WESTSIDE HEALTH CLINIC
 - PRIORITIZE PEDESTRIAN DESIGN & NEW BRIDGE ACROSS THE RIVER, WITH REGIONAL PED/BIKE CONNECTIONS TO AURARIA CAMPUS AND DOWNTOWN
 - DURING CONSTRUCTION, MAINTAIN PEDESTRIAN RIGHTS OF WAY, BIKE LANE WITH SPECIAL ATTENTION TO SAFETY ALONG RIVER
 - DURING CONSTRUCTION, PROVIDE TEMPORARY RETAIL OR PARKING SPACES AS NEEDED

Site

HEALTHY DESIGN GUIDE- LINES

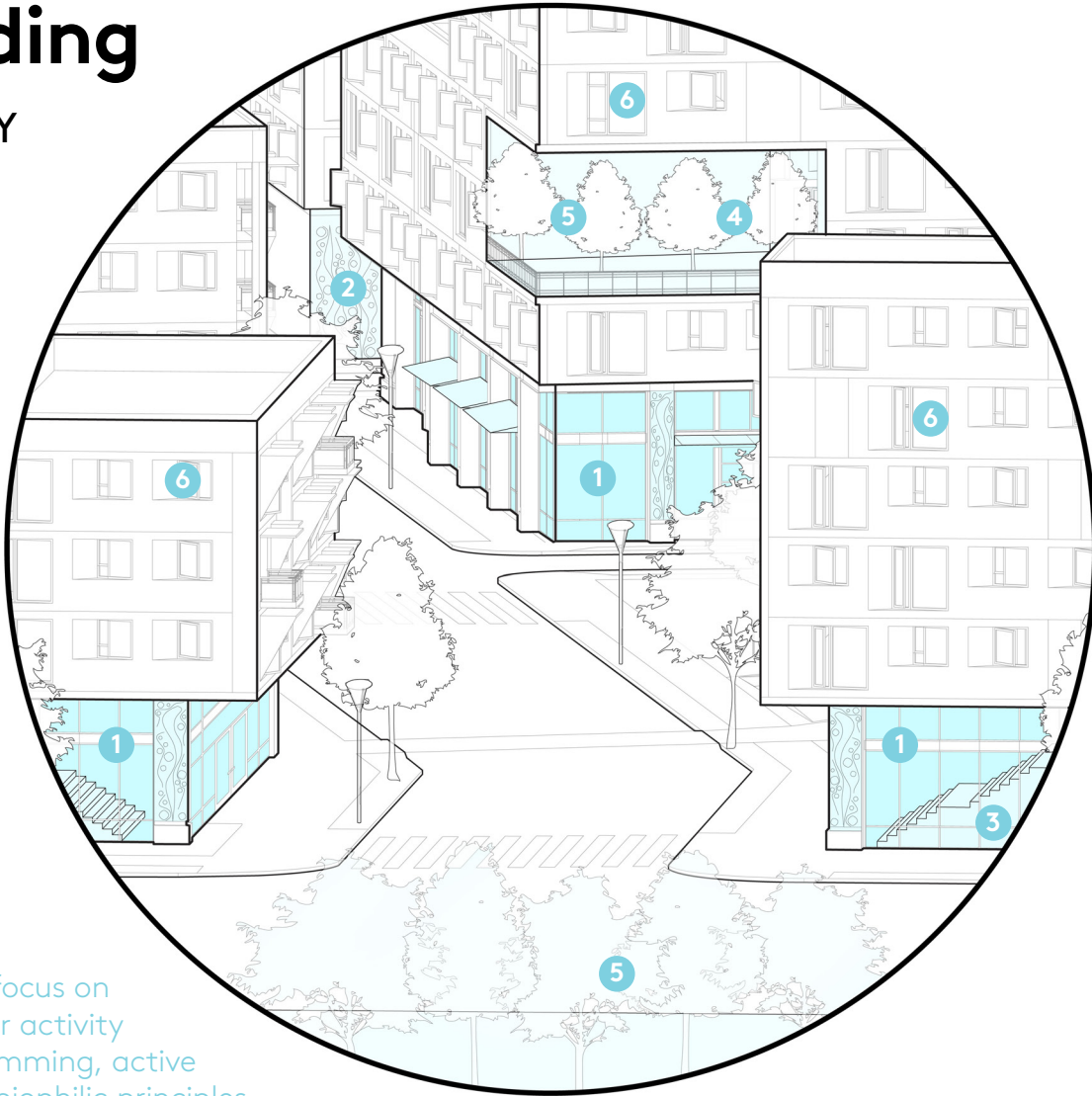


Guidelines focus on
community gardening,
social spaces, outdoor
access & recreation, & unit variety

- 1 INCORPORATE COMMUNITY SPACE AND PLAY/ OUTDOOR SPACES ON EACH BUILDING SITE
- 2 INCORPORATE COMMUNITY GARDEN SPACE INTO EACH BLOCK DESIGN
- 3 PROVIDE SHARED SPORTS AND RECREATION EQUIPMENT WITHIN BUILDING-SPECIFIC GREEN SPACE
- 4 EXPLORE OPTIONS FOR HEALTH SERVICES ON SITE, AT ALL SCALES, INCLUDING TEMPORARY CLINICS (VAN SERVICES)
- 5 REDUCE PARKING HARDSCAPE; DESIGN PARKING TO MITIGATE HEAT
- 6 DESIGN COMMUNITY GARDENS AS SPACES FOR MENTAL RESTORATION; USE FOOD AND GARDEN PROGRAMMING TO CONNECT RESIDENTS
- 7 INCLUDE A VARIETY OF DESIGN AND HOME TYPE CHOICES
- AVOID LOCATING GARDENS NEAR MAJOR ROADWAYS TO AVOID EXPOSURE TO SOIL POLLUTION
- DESIGN FOR INCLUSION VIA RETAIL MIX, LOCATION OF SERVICES & COMMUNITY SPACES

Building

HEALTHY DESIGN GUIDE- LINES



Guidelines focus on
ground floor activity
and programming, active
stairs, and biophilic principles

- 1 ACTIVATE PROPOSED FACADES IN ACCORDANCE WITH FAÇADE ACTIVATION ANALYSIS AND PLAN
- 1 PLAN GROUND FLOOR SPACES THAT HAVE CLEAR GLAZING AND CAN ACCOMMODATE REGULAR PROGRAMMING
- 1 PRIORITIZE CULTURALLY RELEVANT FIRST FLOOR TENANTS; CONSIDER INCENTIVES
- 1 PRIORITIZE EXISTING RESIDENT-OWNED BUSINESSES FOR GROUND FLOOR RETAIL IN NEW DEVELOPMENT; CONSIDER INCENTIVES
- 1 PLAN SPACES THAT CAN ACCOMMODATE HEALTH RELATED CLASSES / PROGRAMS
- 2 INCORPORATE CULTURALLY BASED PUBLIC ART AND MARKERS AT GROUND FLOOR TENANTS AND IN PUBLIC SPACES
- 3 DESIGN AND PROMINENTLY LOCATE ACTIVE STAIRS IN BUILDINGS; INCORPORATE CENTER FOR ACTIVE DESIGN 'BUILDING DESIGN CHECKLIST'
- 4 INCORPORATE BIOPHILIC DESIGN PRINCIPLES INTO DESIGN, INCLUDING SPACES OF REFUGE
- 5 PROVIDE VIEWS TO NATURE FROM BOTH PRIVATE AND PUBLIC SPACES
- 6 ENSURE ADEQUATE DAYLIGHTING OF INTERIOR SPACES
- 6 REDUCE TOXICANT EXPOSURE THROUGH MATERIALS SELECTION; FOCUS ON HIGH-EXPOSURE INDOOR AND OUTDOOR AREAS
- TARGET >10% UNIVERSALLY-DESIGNED RESIDENTIAL UNITS IN THE BUILDING
- PARTICIPATE IN AND/OR REFERENCE HAMP (HEALTHY AFFORDABLE MATERIALS PROJECT) IN MATERIAL SELECTION FOR DHA DEVELOPMENT
- INCLUDE AREAS SUITED FOR TECHNOLOGY & COMPUTER LITERACY TRAINING, WITH SPACE FOR SHARED COMPUTER USE
- USE APPROPRIATE MATERIAL / COLOR CHOICES FOR 'CALM' SPACES

Public & Open Space

HEALTHY DESIGN GUIDELINES & RESOURCES:

ACTIONS	STRATEGY CATEGORY	PARTNERS	RESOURCES	CAMPAIGN
Integrate indoor/outdoor quiet and contemplative spaces throughout the development	Design for mental restoration & stress reduction	SVED, OACD	ULI Building Healthy Places Toolkit	PAUSE & CONNECT
Promote social mixing through design of public spaces & residential buildings	Reduce social isolation	SVED, OACD	Gehl Public Life Diversity Toolkit	PAUSE & CONNECT
Create intergenerational spaces through program combinations & public space access	Reduce social isolation	Denver Arts and Venues, SVED, OACD	Toronto Growing Up Guide: Green Enterprise Comm.	PAUSE & CONNECT
Accommodate on-site transit to access health services	Increase access to health care	CSU Institute for the Built Environment		PAUSE & CONNECT
Increase urban canopy cover in the district by (x)%, focusing on hotspots; incorporate high-albedo roofing, & limit impervious site surfaces to reduce urban heat islands	Reduce outdoor health hazards & chronic respiratory and heat stressors	CIRC Partners-CU Denver, Austin Troy; CSU Institute for the Built Environment (IBE), Denver Urban Field Station	SITES 4.9 ; LEED SS Credit - Heat Island Reduction	HEALTHY & ACTIVE
Select trees that promote shade, pollutant uptake, air filtration, and meet CPTED visibility guidelines	Reduce outdoor health hazards & chronic respiratory and heat stressors	CSU IBE, Denver Urban Field Station, Center for Urban Forest Research	Denver Forestry Dept.: CPTED Guidelines ; EPA	HEALTHY & ACTIVE
Ensure equal access and experience to all public & open spaces through design, including accessible trails and auditory wayfinding	Ergonomic/universal design	SVED		SAFE & INCLUSIVE
Separate areas for bikes and pedestrians, path widths to account for strollers, wheelchairs, larger families	Active design strategies for open space, buildings, and streets	SVED	NACTO Street Design Guide	HEALTHY & ACTIVE
Incorporate open sight lines in open space designs	CPTED	SVED	CPTED Guidelines	SAFE & INCLUSIVE
Consult with community about lighting in public spaces, consider safety in lighting design	CPTED	SVED, DHA	CPTED Guidelines ; ULI Healthy Places Best Practices	SAFE & INCLUSIVE
Provide safety improvements and lighting for South Platte Trail	Crime reduction	Bike Denver		SAFE & INCLUSIVE
During construction, maintain access to existing playground, community center, and trail along river	Maintain active play and transit options during construction	SVED	Project for Public Spaces ; Tactical Urbanism	HEALTHY & ACTIVE
During construction, provide temporary public spaces and playgrounds	Maintain active play and transit options during construction	SVED	Project for Public Spaces ; Tactical Urbanism	HEALTHY & ACTIVE

Street

HEALTHY DESIGN GUIDELINES & RESOURCES:

ACTIONS	STRATEGY CATEGORY	PARTNERS	RESOURCES	CAMPAIGN
Implement traffic calming and control measures at hot spots. Prioritize Riverfront Drive near school and intersections at 9th, 11th, 13th, and Decatur. Address speeds, street width at crossings, and street design	Street safety & mobility	DHA, DPD, BikeDenver, City of Denver Public Works	NACTO Street Design Guide	SAFE & INCLUSIVE
Control speeds entering new neighborhood through design.	Street safety & mobility	DHA, City of Denver Public Works	NACTO St Design Guide ; Active Design Guidelines	SAFE & INCLUSIVE
Include tactile and auditory wayfinding at key intersections and public spaces	Ergonomic / universal design	SVED, CDOT	Center for Active Design Guide- lines, 2.1	SAFE & INCLUSIVE
Incorporate spaces for bike sharing and bike transit at strategic points in the development	Active design strategies for open space, buildings, and streets	BikeDenver, Bicycle Colorado	Center for Active Design Guide- lines, 2.1	HEALTHY & ACTIVE
Prioritize safe pedestrian / bicycle connections; design pedestrian-focused Federal Blvd. crossings	Street safety & mobility	City of Denver Public Works	NACTO St Design Guide ; Active Design Guidelines	SAFE & INCLUSIVE
Improve access to Southwest and Westside Health Clinic	Increase access to health care	CSU Institute for the Built Environment		PAUSE & CONNECT
Prioritize pedestrian design & new bridge across the river, with regional ped/bike connections to Auraria campus and downtown	Transit connections to livelihoods & higher education	SVED, West Colfax BID; Stadium District; Walk-Denver, Auraria Campus	NACTO Street Design Guide	OPPORTUNITY FOR ALL
During construction, maintain pedestrian rights of way, bike lane with special attention to safety along river	Maintain active play and transit options during construction	SVED, OACD, CDOT, Denver Transit Authority		HEALTHY & ACTIVE
During construction, provide temporary retail or parking spaces as needed	Small business support, existing resident businesses	SVED, OACD		OPPORTUNITY FOR ALL

Site

HEALTHY DESIGN GUIDELINES & RESOURCES:

ACTIONS	STRATEGY CATEGORY	PARTNERS	RESOURCES	CAMPAIGN
Incorporate community space and play/outdoor spaces on each building site	Active design strategies for open space, buildings, and streets	EarthLinks, Denver Urban Gardens (DUG)	Green Enterprise Communities Criteria, Credit 7.14	HEALTHY & ACTIVE
Incorporate community garden space into each block design	Increase access to healthy food choices	Denver Botanic Gardens, Denver Urban Gardens	Green Enterprise Communities Criteria, Credit 7.14	HEALTHY & ACTIVE
Provide shared sports and recreation equipment within building-specific green space	Increase access to fitness programs & cardiovascular health opportunities	SVED, OACD		HEALTHY & ACTIVE
Explore options for health services on site, at all scales, including temporary clinics (Van Services)	Increase access to preventative care	DHA, Westside Clinic, Southwest Family Health Center, Rude Recreation Center Denver Transit		HEALTHY & ACTIVE
Reduce parking hardscape; design parking to mitigate heat	Reduce outdoor health hazards & chronic respiratory and heat stressors	CSU Institute for the Built Environment	SITES 4.9; LEED SS Credit-Open Space; EPA	HEALTHY & ACTIVE
Design community gardens as spaces for mental restoration; use food and garden programming to connect residents	Connect residents through programs & events	Denver Botanic Gardens, Denver Urban Gardens	Green Enterprise Communities Criteria, Credit 7.14	PAUSE & CONNECT
Avoid locating gardens near major roadways to avoid exposure to soil pollution	Reduce outdoor health hazards & chronic respiratory and heat stressors	CU Denver Fall Studio/CIRC Partners	CAFEH Tufts University	HEALTHY & ACTIVE
Design for inclusion via retail mix, location of services & community spaces	Small business support, existing resident businesses	SVED, DHARS	Urban Displacement Project	OPPORTUNITY FOR ALL
Variety of design and home type choices	Anti-displacement	SVED, DHA	LEED ND LT 3.6	SAFE & INCLUSIVE

Building

HEALTHY DESIGN GUIDELINES & RESOURCES:

ACTIONS	STRATEGIES	PARTNERS	RESOURCES	CAMPAIGN
Activate proposed facades in accordance with façade activation analysis and plan	CPTED	SVED, OACD	Gehl Public Life Survey	SAFE & INCLUSIVE
Plan ground floor spaces that have clear glazing and can accommodate regular programming	CPTED	SVED, DHA	Gehl Public Life Diversity Toolkit	SAFE & INCLUSIVE
Incorporate culturally based public art and markers at ground floor tenants and in public spaces	Art, cultural expressions	YEA ArtsStreet, Denver A&V		SAFE & INCLUSIVE
Design and prominently locate active stairs in buildings; incorporate Center for Active Design 'Building Design Checklist'	Active design strategies for open space, buildings, and streets	SVED, OACD, Denver Office of Arts & Venues, Arts Street	Center for Active Design Checklist, 3.1 & 3.2	HEALTHY & ACTIVE
Incorporate biophilic design principles into design, including spaces of refuge	Design for mental restoration & stress reduction	SVED, OACD	Happy City : SITES Credit 6.4	PAUSE & CONNECT
Provide views to nature from both private and public spaces	Design for mental restoration & stress reduction	SVED, OACD	LEED Credit - Quality Views	PAUSE & CONNECT
Ensure adequate daylighting of interior spaces	Design for mental restoration & stress reduction	SVED, OACD	LEED Credit - Daylight	PAUSE & CONNECT
Target >10% universally-designed residential units in the building	Ergonomic/universal design	SVED		SAFE & INCLUSIVE
Reduce toxicant exposure through materials selection; focus on high-exposure indoor and outdoor areas	Reduce indoor health hazards & chronic stressors	CSU Institute for the Built Environment, EPA	Home Free	HEALTHY & ACTIVE
Participate in and/or reference HAMP (Healthy Affordable Materials Project) in material selection for DHA development	Reduce indoor health hazards & chronic stressors	DHA, SVED, HAMP	Healthy Affordable Materials Project	HEALTHY & ACTIVE
Prioritize culturally relevant first floor tenants; consider incentives	Art, cultural expressions	DHA, SVED		SAFE & INCLUSIVE
Prioritize existing resident-owned businesses for ground floor retail in new development; consider incentives	Anti-displacement; Small business support, existing resident businesses	SVED, DHA Real Estate Dept.; Glen Harper, CIRC, SV Food Access Coll; Gates Family Foundation		SAFE & INCLUSIVE; OPPORTUNITY FOR ALL
Plan spaces that can accommodate health related classes/programs	Provide behavioral & mental health support	SVED, CIRC+ University Partners	Center for Active Design Checklist, 3.9	PAUSE & CONNECT
Include areas suited for technology & computer literacy training, with space for shared computer use	Job & skills training	Denver OED, DHARS		OPPORTUNITY FOR ALL
Appropriate material and color choices for 'calm' spaces	Design for mental restoration & stress reduction	SVED, OACD	Center for Health Design Know.	PAUSE & CONNECT

Sun Valley Healthy Living Initiative Sample RFP Language—

Sun Valley Healthy Living Initiative

SAMPLE RFP LANGUAGE

Incorporate the Sun Valley Healthy Living Initiative (SVHLI, [*add link*](#)) to improve resident health by promoting active lifestyles and healthy eating; increasing access to education, economic activity, and health care; considering safety and security; and building dynamic community spaces that foster inclusion, increased social cohesion, and a tightly knit neighborhood.

ECODISTRICT

- Collaborate with previous Sun Valley design build teams, respective sub-contractors, DHA, community and other stakeholders establish project goals based on the Grow Healthy Priority Areas and Action Campaigns.

PUBLIC & OPEN SPACE

- Evaluate where community gardens and urban agriculture can take place. Avoid locating near major roadways.
- Design public spaces that enhance and promote community interaction and social mixing at the street level, ground floor, and within the building. Consider multi-generational and large families in design of spaces
- Consider safety and security in private and public spaces through clear sight lines and appropriate lighting. Incorporate CPTED strategies in all designs.
- Identify areas for public art to communicate the cultural identity of the community through opportunities for new, emerging, and established artists. Consider temporary art during construction and describe how art integrates into SVED Master Plan. Prioritize in ground floor spaces/retail.
- Establish a line item in the GMP that is 1% of the GMP for the installation of public art in the phase
- Select trees that create significant shade and are capable of pollutant and particulate uptake.
- Maintain access to existing playgrounds, community center, and trails during construction. Provide temporary features if maintenance is not feasible.

STREET

- Coordinate development with streetscape master plan to foster a pedestrian-focused community. Use traffic calming measures to address traffic “hot spots” identified in the SVHLI. Provide facilities for bicyclists and pedestrians.

BUILDING

- Ensure all units in each building can be visited by guests and residents who have physical disabilities or have limited mobility. Target (X%) universally designed units per residential building.
- Deconstruction of existing DHA units: DHA has a goal that at least 60% of the demolition waste will be diverted from landfills. All asphalt shingles as well as all concrete floors, caseons and stairs shall be recycled. Re-use programs will be required, as determined by DHA and the selected team.
- Activate facades, especially first floor, in accordance with façade activation analysis and plan. See “SVHLI Campaign Action Maps.” ([link](#))
- Plan ground floor spaces that have clear glazing and can accommodate regular DHA programming in accordance with “SVHLI Campaign Action Maps.” ([link](#))
- Plan spaces for health-related classes or programs.
- Explore options for health services on site, at all scales, including temporary clinics.
- Plan for a variety of design and home choices in each building.
- Design and prominently locate active stairs in buildings and incorporate other Active Design Guidelines.
- Reduce toxicant exposure through materials selection; focus on high exposure indoor and outdoor areas. Participate in the Healthy Affordable Materials Project as a reference to guide materials selection.
- Incorporate spaces for respite and refuge in the project by incorporating biophilic design principles, simple and “calm” color palettes, and materials that are coordinated with Sun Valley design guidelines.
- Provide adequate daylighting and views to nature for interior spaces and units.
- Incorporate high-albedo roofing, green roofs per Denver Green Roof Initiative, or Solar panels.