

Call to Order (Attendance, Agenda, Ethics)  
Review and Approval of Minutes June 19, 2017  
Winslow Hotel  
Blakely Elementary School PLN50767 CUP SPR  
Sound to Olympics Trail Presentation  
New/Old Business  
Adjourn

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**Call to Order (Attendance, Agenda, Ethics)**

Chair Alan Grainger called the meeting to order at 2:00 pm. Design Review Board (DRB) members in attendance were Jim McNett, Joseph Dunstan, Peter Perry, Jason Wilkinson and Alan Grainger. Jeff Boon and Chris Gutsche were absent and excused. City staff present were Interim Planning Manager Heather Wright, Associate Planner Kelly Tayara and Administrative Specialist Lara Lant who recorded the meeting and prepared minutes.

Alan Grainger disclosed he knew Mike Burns, the property owner of the Winslow Hotel project.

**Review and Approval of Minutes – June 19, 2017**

The minutes were reviewed.

**Motion:** I move to approve the minutes of June 19<sup>th</sup>, 2017 as written, with questions as noted to be addressed by Director Gary Christensen.

**Perry/Dunstan:** The motion carried 5-0.

Alan Grainger requested Director Gary Christensen address project conditioning by city planners as well as next steps after the combined City Council, Planning Commission and Design Review Board meeting introducing the results of the Latimore Report.

**Winslow Hotel**

Bruce Anderson and Jim Cutler, architects of the proposed Winslow Hotel project, presented drawings of the project to the Design Review Board. They sought pre-preapplication comments on a proposal to construct a 60 to 75 room hotel with associated banquet space, meeting rooms, restaurant, bar, coffee shop, spa and retail. The project would cover approximately 65,000 to 70,000 sf over two lots, excluding a garage. Floor area ratio (FAR) purchased from the Islander Mobile Home Park and bonuses for retaining significant trees would allow increased density. Structures would be designed around a substantive Redwood intertwined with a Douglas Fir tree be reminiscent of the rough, heavy timbers of the historic Blakely Saw Mill. (SEE ATTACHED PRESENTATION.)

Joe Dunstan stated he liked the project's landscape architecture but was concerned with the scale of the north elevation. Alan Grainger stated there were shortcomings in guest arrivals and service area plans. Bruce Cutler replied stacking vehicles, valet services, and parking based on ferry traffic were being considered so the project wouldn't be "under-parked." Jason Wilkinson suggested the project's continuous east façade be scaled down with greenery, pedestrian access be added to create public spaces, and carshare opportunities provided for guests. Alan Grainger requested drawings noting scale and proximity of the buildings adjacent to the project be brought to the next review.

#### **Blakely Elementary School PLN50767 CUP SPR**

Interim Planning Manager Heather Wright stated the Bainbridge Island School District was seeking a recommendation for the Blakely Elementary School project. Today's presentation addressed revisions made since the last presentation before the Design Review Board. Richard Franko of Mithun introduced the revised project. (SEE ATTACHED PRESENTATION.) After the presentation, the Design Review Board discussed street lighting, pedestrian access and pathways which could improve connections. Charles Schmid commented that the buffer bordering IslandWood was very narrow.

**Motion:** I move that we approve this design with the following recommendations: A footpath be added from the southwest corner of the site to access around the east side of the bus parking area, and a further review of the relationship of the landscaping of the main entry spine be performed.

**McNett/Wilkinson:** The motion carried 5-0.

#### **Sound to Olympics Trail Presentation**

Sound to Olympics (STO) Trail Bridge Project Manager Mark Epstein introduced Steve Rabago from the Public Art Committee and Douglas Sarkkinen from Otak, Inc. Together they described the current status of the STO Trail Bridge project. (SEE ATTACHED PRESENTATION.) This portion of the project was Phase Three of the STO Trail. Mark Epstein emphasized the connectivity between trails and easements and that previous planning studies recommended these connections. Up to this point, there had been one public meeting to consider conceptual ideas and there was no clear consensus on bridge style. The \$2.2 million budget for the bridge included approaches but did not include monies for public art. Construction was planned for 2019.

The Design Review Board commented that incorporating public artwork early in the process was important.

**New/Old Business**

There was no new/old business.

The meeting adjourned at 5:26 p.m.

Approved by:



Alan Grainger, Chair



Lara Lant, Administrative Specialist





CITY OF  
BAINBRIDGE ISLAND

CITY OF BAINBRIDGE ISLAND  
DESIGN REVIEW BOARD – REGULAR MEETING

September 11, 2017

PLEASE PRINT

Join  
ListServ  
Yes/No

Name	Affiliation	Phone/ E-Mail	Join ListServ Yes/No
ALAN GRANGER	DRB		
JOE DUNSTON	DRB		
Nick Twietmeyer	Bainbridge Island Review	N/A	no
JIM McNETT	DRB	—	—
Peter Hooy	DRB	—	—
JASON TWICKINSON	DRB	—	—
Glad Kibeiro	Ribeiro Consulting ABC	—	—
CHARLES SCHUB			
JIM CUTLER	CAA	206-842-4710	
BRUCE ANDERSON	"	"	
Tanaka Van Winkle	BID	TanakaV@BID303.org	—
MICHAEL EVERETT	MITHUN		
SEANUS KELLY	MITHUN	seamus@mithun.com	No
RICH FRANKO	mhm		
Steve Rabago	Public Wer Comm.	Steve@rabago.me	Yes
Douglas Sarkkinen	Otake, Inc	douglas.sarkkinen@otake.com	



## Memorandum

**To:** City of Bainbridge Island **Date:** September 11, 2017  
**Project #:** 1622400  
**From:** Mithun **Project:** Captain Johnston Blakely  
Elementary School  
**Re:** Design Review Board - Compliance & Design Response Information

The following information is being provide to illustrate compliance with the CoBI Design Guidelines, incorporating the input from the DRB's pre-application review on March 6, 2017.

### **I. Project Summary & Vision**

The Blakely Elementary School project is the replacement of a 1965 school building with a new pre-K through 4th grade school serving 450 students and an expansion option for 600 students. The design of the site and building are guided by the four goals established in the teacher, staff and community programming process known as the 'Ed Spec'.

1. Foster next generation learning
2. Strengthen community
3. Enhance connectivity , safety and flow
4. Create a healthy environment for learning

The new school design is inspired by the sloping site, existing trees and the rural character of South Bainbridge Island. The main spine of the school climbs the north south slope and provides a separation between the lower administration, commons and gymnasium area from the upper classroom and library educational core. The entry landscape provided enhance safety with separated bus and car parking, signalized pedestrian entry, and visual connections for natural surveillance. The landscape design creates zones echoing the surrounding forest, meadows and wetland.

The educational core is designed around an 'L' shaped module of 4 classrooms surrounding a shared learning space for collaborative group activities. Each classroom has extensive daylight and multiple views to the exterior and to shared learning. The classroom modules create a south facing courtyard to extend learning areas to the exterior. The courtyard is completed by a library opening out to the woods and a STEAM classroom with outdoor activity areas.

Sustainability is incorporated into multiple elements of the design, with geothermal wells for energy efficiency to low emitting materials that provide healthy indoor environments for children. All habitable spaces have daylighting, and energy efficient lighting and mechanical equipment are used throughout the building.

**II. DRB Pre-Application Comments and Recommendations**

Meeting Minutes are attached. DRB comments and Recommendations have been highlighted and numbered. Responses to each line item are as follows:

1. Drive Alignment with Baker Hill.
2. Landscape buffers and screening between parking area and busses to indicate clear pathway for pedestrians.

**III. Other Design Changes from Pre-Application DRB presentation**

- A. Design simplification (*see presentation*)
- B. Building Materials (*see presentation*)

**IV. Commercial / Mixed Use Design Guidelines Checklist BIMC 18.18.030.C**

See attached.



Call to Order (Attendance, Agenda, Ethics)  
Review and Approval of Minutes – February 17, 2017  
Work Session  
Blakely Elementary School PLN50767 PRE  
Wallace Cottages PLN50589 PRE  
New/Old Business  
Adjourn

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**Call to Order (Attendance, Agenda, Ethics)**

Chair Alan Grainger called the meeting to order at 2:10 pm. Design Review Board (DRB) members in attendance were Jeff Boon, Jim McNett, Joseph Dunstan, Jason Wilkinson. Chris Gutsche and Peter Perry were absent and excused. City Council Liaison Ron Peltier and Planners Heather Wright and Kelly Tayara were present. Administrative Assistant Lara Lant recorded the meeting and prepared minutes. No conflicts were disclosed.

**Work Session (this replaced Review of Minutes on the Agenda)**

Charles Schmid requested a few minutes to present information to the Design Review Board. He wanted to review a motion which carried unanimously at their November 21, 2016 meeting. *We have reviewed Grow Community Phase 3 and we are recommending approval of revised plans submitted today 11-21-16 with one condition: that the applicant ensures full screen requirements per the Hearing Examiner's condition 42 are met and that Josh Machen confirms whether a 10' wide landscape buffer can be met.* Charles Schmid said the project originally had a 20' partial screen which was reduced to the minimum requirement of 15' and reduced again to 10' based on a ruling by the Hearing Examiner. The developer put a 5' sidewalk in the 10' screen. He didn't see where a bicycle path would be developed but wasn't sure a 5' path could accommodate bicycle traffic. He wanted to bring this information to the attention of the Design Review Board. Alan Grainger said he would request Josh Machen to return to the Design Review Board to address this situation. Joseph Dunstan said he wanted to formally ask the Planning Director to respond and Alan Grainger said they would make that request through the minutes of this meeting. Jason Wilkinson said the Design Review Board should keep a running list of action items for projects that would be reviewed at each meeting. The details of that process will have to be organized by the Design Review Board.

**Review and Approval of Minutes – February 17, 2017**

The minutes were reviewed.

***Motion:*** I move to approve the minutes of February 17, 2017.

***Dunstan/Boon:*** The motion carried 5-0.



**Blakely Elementary School PLN50767 PRE**

Tamela Van Winkle, Director of Capital Projects, Facilities and Operations for Bainbridge Island School District summarized the school district's financial position and ongoing design modifications. Representatives from Mithun, Inc presented the latest design. There were 2 primary elements of the school, the lower section with a flat area for a playfield, gymnasium, and an administrative wing and an upper section containing classrooms. The lower section of campus would also serve as community space for parents and students. A connecting "spine" joined the upper and lower buildings. The largest blank wall was for the covered play area which was about 300' from the road. A student drop off zone, teacher parking and a bus drop off area were adjacent to a common area that filtered to the lower section of campus. They would avoid mixing bus and vehicle access by having separate entrance and exits. Alan Grainger said the entrances and exits were not aligned with Baker Hill Road and that crossing that intersection would mean vehicles interfacing with students walking across the road. He noted that Blakely Avenue was also a primary access to the Fort Ward area and this design added congestion. Mithun replied their initial design contained the realigned road access but due to the expense of moving utilities, clearing trees and additional storm water requirements, they had reconsidered. Alan Grainger told Heather Wright it would be irresponsible for the city to approve this road configuration. Mithun Inc said a playfield would be constructed at the front of the school and a 5' fence would separate it from the parking area. Screening and buffers would increase near parking. Joe Dunstan said continuing the buffer between parking area and the busses would indicate a clear pathway for pedestrians.

#1

#2

Buildings were configured in an L shape, containing classroom clusters which provided common, shared learning spaces. Stairs would connect the upper and lower campus and provide a place to hang out. The construction would accommodate up to 600 students. A cistern on the upper campus would collect water that could be used for toilet flushing. Tamela Van Winkle said hyper escalation of area-wide building required simplification of their design. Additional brick and fibrous cement would replace some wood design elements. Durable, low-maintenance pathways would be created using concrete and crushed aggregate and there would be wood decking for outdoor learning. The plant palette was at a preliminary design stage and would include northwest native plants, rushes and grasses in raingardens and a low-maintenance meadow mix. Tamela Van Winkle said they were ready to transition from the schematic to the design phase of the project. They would consider realigning the Baker Hill Road intersection but it may prove too expensive.

A

B

**Wallace Cottages PLN50589B PRE**

Before Kelly Tayara introduced the project, Alan Grainger confirmed to Susan Lick that the Design Review Board did receive her emailed comments. Kelly Tayara said Wallace Cottages was a 19 lot, single family Housing Design Demonstration Project (HDDP), nearing final site design. Dave Smith of Central Highlands described aspects of the innovative site design. He



emphasized pedestrian connectivity within the core through pathways between neighboring properties through agreements and easements. Wallace Cottages would have an 18', 2-way street that looped, increasing traffic circulation. They asked city engineers to approve narrower street design to cut down on impervious surface. Their original design included a hammerhead road end but city engineers preferred a cul-de-sac for fire access, so they revised the plan. The size of the lots was smaller which allowed Central Highlands to create a ½ acre of open space – double the requirement. Wallace Cottages, Duane Cottages and Madison Hamlet would have a commonality of Homeowners Associations, allowing joint participation in the playground and pea patch. Wallace Cottages would have an electric bicycle station as well as a recycle station. Dave Smith noted the stormwater line on Madison Avenue had direct discharge to Eagle Harbor but the diameter of the line was different in various parts of the line. Central Highlands proposed improvements to a portion of the line and neighboring Madison Avenue Retirement Center was interested in participating in this improvement. This would result in a reduction of on-site water detention. After Central Highlands upgrades sewer and storm lines the city has agreed to take over the system.

Alan Grainger asked Kelly Tayara if it was reasonable to focus only on this project in today's review and she replied that there were 5 projects proposed for construction between Madison Avenue and Nakata Avenue. Initially, the city wanted to review projects individually but saw the value of approaching infrastructure requirements more holistically. City public works, development engineers, survey and sewer departments came together to assess stormwater and sewer needs in the area. They don't want to impede development but make sure one project didn't adversely affect another. The continued primary concern was the opening up of Wallace Way. Both Central Highlands and residents in nearby neighborhoods agreed that they didn't want a connection from Wallace Way through to Madison Avenue. Alan Grainger said traffic circulation issues became more complicated with HDDP developments. He asked that the Design Review Board see the other projects being developed alongside Wallace Cottages so they had a better vision of what was going on. Kelly Tayara said she would bring a composite map of the developments in the area to the next meeting. Ron Peltier said the Design Review Board might make a recommendation to City Council that they look at projects cumulatively. Alan Grainger replied he'd like to discuss this with the Planning Director before addressing City Council.

Alan Grainger said his first choice for traffic access would be if density increased, developments be accessed from streets such as Madison Avenue with higher capacity and less destruction to existing neighborhoods. His second choice would be that the development not have a through connection and access be limited to just one project, not multiple projects. Jim McNett added that they needed to look at the impact of HDDP on surrounding neighborhoods.

#### **Review and Approval of Minutes – February 17, 2017**

The minutes were reviewed.

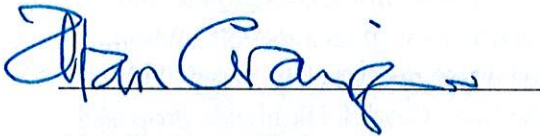
**Motion:** I move to approve the minutes of February 17, 2017.

**Dunstan/Boon:** The motion carried 5-0.

**Adjourn**

The meeting adjourned at 5:38 pm.

Approved by:



Alan Grainger, Chair



Lara Lant, Administrative Specialist



**CITY OF BAINBRIDGE ISLAND  
DESIGN REVIEW BOARD – REGULAR MEETING  
March 6, 2017**

**EASE PRINT**

Join  
ListSe  
Yes/No

ne	Affiliation	Phone/ E-Mail	
CHARLES SCHMID	ARB	ceschmid@att.net	
Van Grainger	DRB		
JOE DUNSTAN	DRB		
JIM McNETT	DRB		
JEFF BOON	DRB		
JASON WILKINSON	DRB		
Robert Doshie II	Citizen	rdoshie@col.com	
Ron Peltier	City Council	rpeltier@bainbridgewa.gov	
RICH FRANKO	MITHUN	richardf@mithun.com	
TAMARA VANWINKLE	BISD	tvanwinkle@BISD303.org	
Sick Twietmeyer	BI Review		no/c
Christian Ruge	Mithun	christianr@mithun.com	no
Michael Fiegenschuh	Mithun	michealf@mithun.com	no
JOHN CARAY	<del>RRD</del>	john@CARAYBKD303.org	No
CHARLES DEMMING	BISD	cdemming@bisd303.org	No
Keller Wright	COBI	hupelt@bainbridgewa.gov	
Ang Hotchkiss	Resident Group Ave	dkhotchkiss@msn.com	yes
AND SPARKMAN	RESIDENT - TARNIC	SPARKMANLAN@GMAIL.COM	yes





Application Design Guidelines				
#	Intent	Guideline	Design Response	DRB Action (Y/N)
1	To develop variation in façade treatment to provide visual interest	Vary building materials or patterns to produce variations in texture.	Masonry, varigated metal panels and the articulation of fenestration is varied along each building elevations	
2	To modulate the scale of building masses	Building elevations shall be vertically modulated in no more than 20' increments or horizontally in more than 30' increments. Modulation is defined as a change in plane or articulation (such as bands, cornices, setbacks or changes in material).	Each building elevation is modulated with changes of plane or material to reduce the scale of the building masses. Certain large volume spaces such as the gym and commons will utilize texture and fenestration to modulate scale.	
3	To limit the visual impact of blank walls and facades and better assure aesthetic appeal	Blank walls shall not be visible to public spaces. Blank facades should otherwise be limited to the back of the building or where required by building code. Treatments to alleviate blank walls shall be similar in materials to facades normally in view of the public.	The only blank walls in the project are located where program requirements dictate. These wall have material and/or fenestration articulation to mitigate 'blank' effect.	
4	To establish visually prominent ground floor facades	The first floor of multi-storied buildings shall be taller than upper floors. Minimum ceiling heights shall be at least 10' to allow transom or larger display windows. Other elements such as transom windows, canopies, cornices and prominent entries are encouraged. First floor uses shall be pedestrian oriented and include substantial shop windows. Display windows on the first floor of retail and commercial buildings should be the predominate surface of the first floor	The first floor height of the multi-story portion of the building is greater than 10'. There are large windows to promote natural daylighting in the project. The main entrance has a prominent canopy.	
5	To maintain pedestrian scale along facades facing public ways	Facades facing public ways shall incorporate setbacks or articulation that establishes a pattern of bays or window openings. Facades shall include features such as display windows, columns or bays, recessed entries or canopies or other recesses. The use of a variety of materials at the sidewalk level is encouraged. Multiple building entrances are encouraged.	The front canopy and fenestration articulation at the front is scaled for pedestrians.	
6	To maintain the pedestrian activities by encouraging continuous frontages along sidewalks	Where parking fronts onto a public street, the maximum separation between buildings shall be 80 feet. Greater separations are permitted if landscape setbacks are increased or other design features such as low walls, trellises and public spaces are created along the street.	N/A	
7	To reduce overall scale of the building into multiple building masses.	Facades of 128' in length shall be separated by pedestrian passage or open space. Passages should be at least 12' wide and two stories in height if covered. Façade setback should be expressed at the roof line by changes in plane. Passage should connect to public open space.	The building is separated into a number of distinctive wings, separated by a central spine that is articulated in plan, section and elevation from the adjacent building masses.	



Application Design Guidelines				
#	Intent	Guideline	Design Response	DRB Action (Y/N)
8	To encourage the creation of public outdoor spaces.	Building setbacks may be increase for the creation of public outdoor seating areas. Entry alcoves and small outdoor spaces may be located between the building and sidewalk.	Public space, including play space and informal seation is provided at the front of the building.	
9	To soften the impact of the built environment.	Encourage public pedestrian passageways and vegetation between buildings.	Vegetation separated the school from all other buildings, on all sides.	
10	To encourage compatibility of development with both community and neighborhood characteristics.	Building designs should respond to nearby buildings that meet the upgraded design standards by using shared elements, materials or massing.	The building is situated where no neighboring buildings are visible and visa-versa.	
11	To minimize the intrusiveness of commercial signage.	Signage, corporate colors and other icons of the business may not dominate the exterior of the building, including canopies and separate outdoor structures covering activities associated with the business. Color should be used to express changes in detail or materials but exterior building and structure colors may not be used as signs, or as the extension of signs.	School identification and way finding signage will be incorporated into the architectural expression.	
12	To improve the pedestrian environment around buildings and minimize curb cuts	Where a drive through facility is allowed, drive through must be in conjunction with a parking lot that serves the same business, must be to the side or rear of the building and should not be visible from the public streets. Drive through should consist of no more than a single vehicle lane.	No drive through.	
13	To provide pedestrian access to buildings.	Provide multiple entrances along streets. Pedestrian passageways are encouraged.	For security purposes, a single main entrance is provided for the building. There is a secondary entrance to select spaces for after-hours usage.	
14	To provide weather protection for pedestrians	Recessed entries and/or overhead weather protection above the sidewalk entrances shall be used.	All primary entrances are protected from the weather with canopies.	
15	To maintain smaller scale commercial buildings.	Buildings in excess of 10,000 square foot footprints should be visually split into two or more distinct elements.	The building is split into a number of wings to break down the scale of the building.	
16	To reduce the visual impact of parking areas.	Create small parking clusters connected by vegetated landscaping and pedestrian walkways. Internal streets that connect or serve parking areas shall be designated as streets with sidewalks, planters and pedestrian scale lighting.	Parking and drop off is separated with vegetated landscaping between pedestrian walkways.	

IP65 : Suitable for Wet Locations

IK10 : Impact Resistant (Vandal Resistant)



## UTA-80401

### Tango 5 cylindrical surface exterior downlight LED

A range of cylindrical surface mounted exterior downlight luminaires. Developed for interior and exterior lighting using a variety of different lamp options. These include compact fluorescent lamps, and discharge lamps.

Low copper content die-cast aluminum housing and aluminum bottom frame with integral anti-glare baffles. Stainless steel screws. Durable silicone rubber gasket and clear toughened glass. Single cable entry. Housing is treated with a chemical chroma-tized protection before powder coating, ensuring high corrosion resistance. Integral control gear. Anodized high purity aluminum reflector.

#### Physical Data

Length: 6.3"

Height: 10.43"

Weight: 6.8 lbs

#### Lamp

☐ 30w - 2075lm - White - LED ☺

Beam Angle (Please Specify)

☐ N - Narrow Beam: 14 Deg

☐ M - Medium Beam: 24 Deg

☐ W - Wide Beam: 40 Deg

LED Color (Please Specify)

☐ W27 - 2700K

☐ W30 - 3000K

☐ W40 - 4000K

Voltage (Please Specify)

☐ 120V

☐ 277V

☐ Other \_\_\_\_\_

Color (Please Specify)

☐ 01-Black - RAL 9011

☐ 03-White - RAL 9003

☐ 05-Matt Silver - RAL 9006

☐ 06-Bronze - RAL 6014

☐ 02- Dark Grey - RAL 7043

☐ 04 - Metallic Silver - RAL 9006

☐ 07- Custom - RAL \_\_\_\_\_



#### Lens

☐ F - Frosted Lens

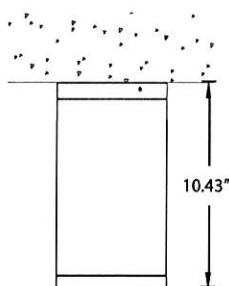
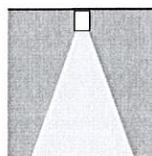
☐ C - Clear Lens



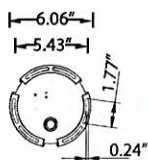
☐ SCE - Surface Conduit Entry Box - ☐ 1/2" Conduit ☐ 3/4" Conduit

☐ Mounting Ring

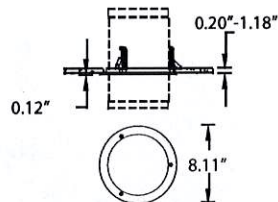
☐ HGT - Specify Custom Height \_\_\_\_\_ ft



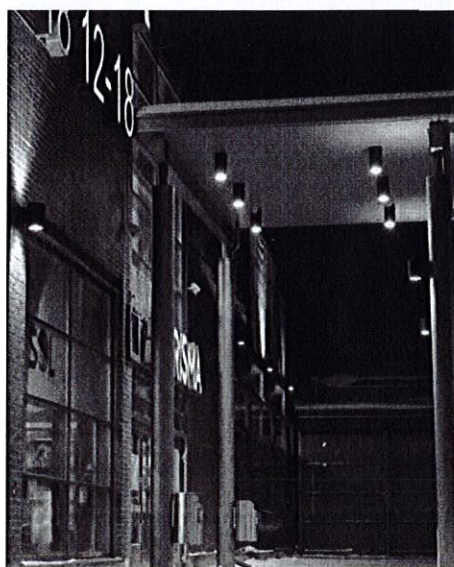
Bottom view



Mounting detail



Mounting ring for semi recessed installation



Ordering Example : UTA - 80401 - White-30w - N - W30 - 120v - Options



Rev: 11/13

PROJECT: \_\_\_\_\_ DATE: \_\_\_\_\_

TYPE: \_\_\_\_\_ QUANTITY: \_\_\_\_\_ NOTE: \_\_\_\_\_

Ligman Lighting USA reserves the right to change specifications without prior notice. please contact factory for latest information

**FIXTURE TYPE:**  
**AD-01**



## LED Ceiling-mounted downlights - narrow beam

**Housing:** One piece die-cast aluminum for direct attachment to a 3 1/2" or 4" recessed octagonal wiring box using a mounting strap. Die castings are marine grade, copper free ( $\leq 0.3\%$  copper content) A360.0 aluminum alloy.

**Enclosure:** Tempered clear glass, retained by a one piece, die-cast aluminum frame. Frame is secured by threading into luminaire housing. Fully gasketed for weather tight operation using a molded silicone rubber gasket.

**Electrical:** 26W LED luminaire, 31 total system watts,  $-30^{\circ}\text{C}$  start temperature. Integral 120V through 277V electronic LED driver, 0-10V dimming. LED module(s) are available from factory for easy replacement. Standard LED color temperature is 3000K with an  $>80$  CRI. Available in 4000K ( $>80$  CRI); add suffix K4 to order.

**Note:** LEDs supplied with luminaire. Due to the dynamic nature of LED technology, LED luminaire data on this sheet is subject to change at the discretion of BEGA-US. For the most current technical data, please refer to [www.bega-us.com](http://www.bega-us.com).

**Finish:** All BEGA standard finishes are polyester powder coat with minimum 3 mil thickness. Available in four standard BEGA colors: Black (BLK); White (WHT); Bronze (BRZ); Silver (SLV). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order

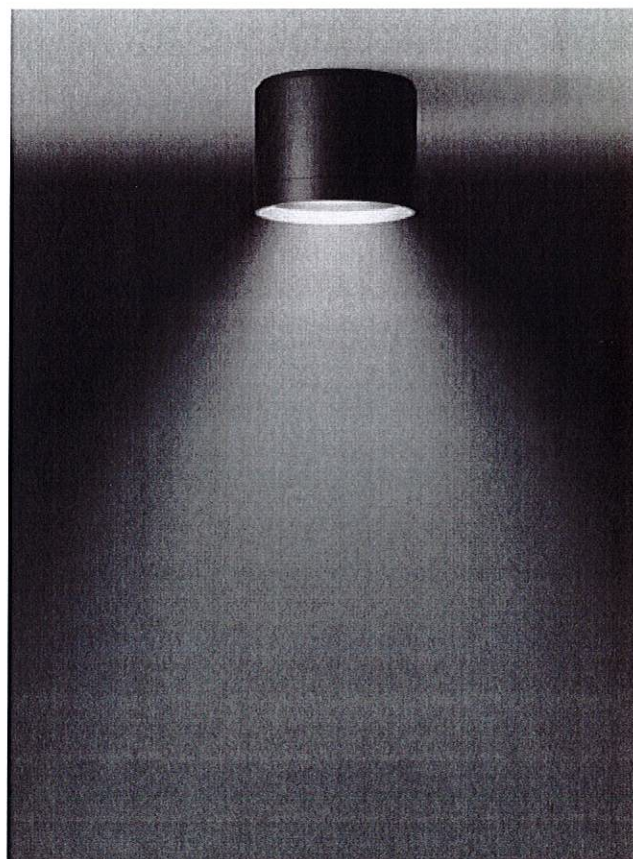
**CSA** certified to U.S. and Canadian standards, suitable for wet locations. Protection class IP65

**Weight:** 5.1 lbs.

**Luminaire Lumens:** 1805

Tested in accordance with LM-79-08

Type:  
BEGA Product:  
Project:  
Voltage:  
Color:  
Options:  
Modified:



	Lamp	$\beta$	A	B
<b>66978</b>	26W LED	21°	7 1/2"	6 1/4"

$\beta$  = Beam angle



LED Ceiling-mounted downlights - narrow beam

**Housing:** One piece die-cast aluminum for direct attachment to a 3 1/2" or 4" recessed octagonal wiring box using a mounting strap. Die castings are marine grade, copper free ( $\leq 0.3\%$  copper content) A360.0 aluminum alloy.

**Enclosure:** Tempered clear glass, retained by a one piece, die-cast aluminum frame. Frame is secured by threading into luminaire housing. Fully gasketed for weather tight operation using a molded silicone rubber gasket.

**Electrical:** 13.1W LED luminaire, 15 total system watts, -30°C start temperature. Integral 120V through 277V electronic LED driver, 0-10V dimming. LED module(s) are available from factory for easy replacement. Standard LED color temperature is 3000K with an 85 CRI. Available in 4000K (85 CRI); add suffix K4 to order.

**Note:** LEDs supplied with luminaire. Due to the dynamic nature of LED technology, LED luminaire data on this sheet is subject to change at the discretion of BEGA-US. For the most current technical data, please refer to [www.bega-us.com](http://www.bega-us.com).

**Finish:** All BEGA standard finishes are polyester powder coat with minimum 3 mil thickness. Available in four standard BEGA colors: Black (BLK); White (WHT); Bronze (BRZ); Silver (SLV). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order

**CSA** certified to U.S. and Canadian standards, suitable for wet locations. Protection class IP65

**Weight:** 5.0 lbs.

**Luminaire Lumens:** 903

Type:  
BEGA Product:  
Project:  
Voltage:  
Color:  
Options:  
Modified:



Ceiling mounted downlights · narrow beam

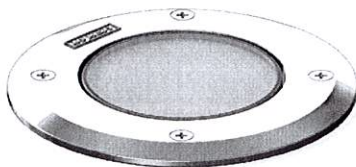
	Lamp	$\beta$	A	B
66981	13.1W LED	13°	6	5

$\beta$  = Beam angle



## UHA-60385

## Harrier 1 Inground LED



## Physical Data

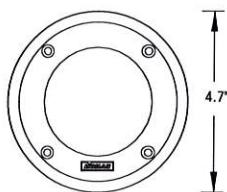
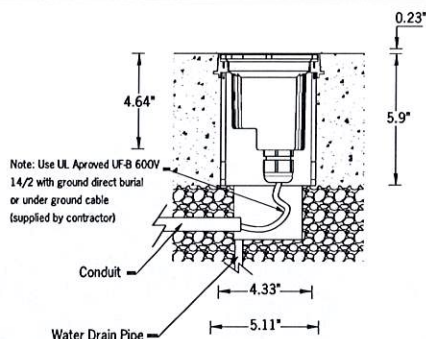
Length • 4.7"

Height • 5.9"

Weight • 1.1 lbs (A) 1.5 lbs (S)

IP67 • Suitable For Wet Locations

IK10 • Impact Resistant (Vandal Resistant)

LED Module  
TILT 5 Deg

A top range of inground uplights with a choice of round or square stainless steel or painted aluminum front rings. This 4" inground luminaire is provided with a low output LED board and integral driver, and is suitable as a marker light for illuminating shopping and pedestrian areas, parks, gardens and sculptures. This low glare luminaire is provided with a 0.4" thick tempered glass and is rated as a walkover luminaire. The glass has a special wrap around high temperature silicone gasket that provides additional ingress protection. A non slip lens is available as an option. This non slip coating is a proprietary coating that is infused into the glass to provide excellent traction in wet conditions.

To ensure efficient drainage, gravel must be used to a depth of 17" beneath the housing, and should also be placed around the luminaire. Low copper content die-cast aluminum housing with high corrosion resistance. The 0.24" thick front ring is available in grade 316 stainless steel or aluminum. Stainless steel fasteners in grade 316. Power is provided through a single PG1/2" watertight cable gland.

UF-B 600v underground feeder cable is recommended to provide power to the luminaire. Standard recessing box in high density polyethylene.

NOTE: This luminaire is provided with a remote mounted driver. A waterproof remote driver box can be provided as an option and should be specified.

Aluminum Casting

Less than 0.1% copper content – Marine Grade LM6 Aluminum High Pressure die casting provides excellent mechanical strength, clean detailed product lines and excellent heat dissipation.

Pre paint

8 step degrease and phosphate process that includes deoxidizing and etching as well as a zinc and nickel phosphate process before product painting.

Memory Retentive -Silicon Gasket.

Provided with special injection molded "fit for purpose" long life high temperature memory retentive silicon gaskets. Maintains the gaskets exact profile and seal over years of use and compression.

Thermal management.

LM6 Aluminum is used for its excellent mechanical strength and thermal dissipation properties in low and high ambient temperatures. The superior thermal heat sink design by Ligman used in conjunction with the driver, controls thermals below critical temperature range to ensure maximum luminous flux output, as well as providing long LED service life and ensuring less than 10% lumen depreciation at 50,000 hours.

Surge Suppression

Standard 10kv surge suppressor provided with all fixtures.

BUG Rating

B0 - U1 - G0

Finishing.

All Ligman products go through an extensive finishing process that includes fettling to improve paint adherence.

Paint.

UV Stabilized 4.9Mil thick powder coat paint and baked at 200 Deg C.

This process ensures that Ligman products can withstand harsh environments. Rated for use in natatoriums.

Hardware.

Provided Hardware is Marine grade 316 Stainless steel.

Anti Seize Screw Holes

Tapped holes are infused with a special anti seize compound designed to prevent seizure of threaded connections, due to electrolysis from heat, corrosive atmospheres and moisture.

Crystal Clear Low Iron Glass Lens.

Provided with tempered, impact resistant crystal clear low iron glass ensuring no green glass tinge.

Optics & LED

Precise optic design provides exceptional light control and precise distribution of light. LED CRI > 80

Lumen - Maintenance Life

L80 /B10 at 50,000 hours (This means that at least 90% of the LED still achieve 80% of their original flux)

## Standard Options

Lamp	Frame	Beam	LED Color	Finish Color	Options (Consult Factory for Pricing)
8w LED 389 Lumens	A - Aluminum [ Choose Finish Color ] S - Stainless Steel	N - Narrow - 20° M - Medium - 30° W - Wide - 50°	W27 - 2700K W30 - 3000K W40 - 4000K	01 - Black - RAL 9011 02 - Dark Grey - RAL 7043 03 - White - RAL 9003 04 - Metallic Silver - RAL 9006 05 - Matte Silver - RAL 9006 06 - Bronze - RAL 6014 07 - Custom RAL	TLT - LED 5' Tilt Module ADA - Anti-Slip Lens F - Frosted Lens A80191 - Remote Driver Box

Ordering Example : UHA - 60385 - 8w - A - N - W30 - 02 - 120/277v

UHA	60385	Lamp	Frame	Beam	LED Color	Color	Voltage	Options
		8w LED	S Stainless Steel A Aluminum (Choose Color)	N Narrow M Medium W Wide	W27 2700K W30 3000K W40 4000K	01 Black 02 Dark Grey 03 White 04 Metallic Silver 05 Matte Silver 06 Bronze 07 Custom RAL	120/277v Other (Specify)	TLT LED 5' Tilt Module A80191 Remote Driver Box ADA Anti-Slip Lens F Frosted Lens

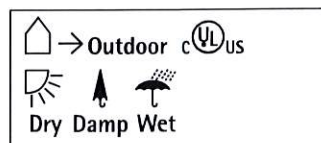
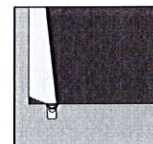
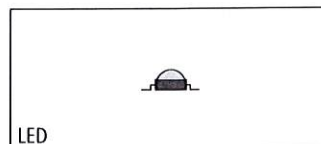
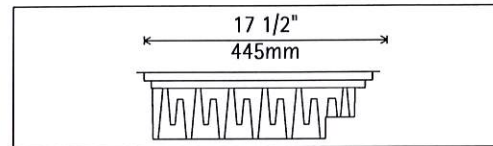
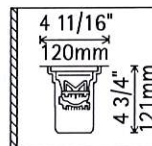
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Head Office:  
7144 NW Progress Ct

Tel: 503-645-0500

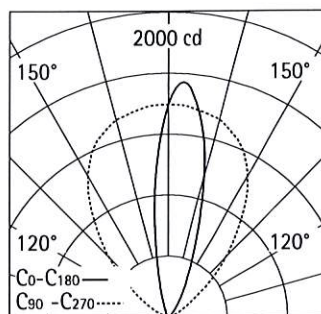
**FIXTURE TYPE:**  
**AG-01**





**32808.023**  
LED 24W 2520lm 3000K warm white  
Dimmable  
Version 2  
Covered mounting detail

**Product description**  
For mounting in accessories.  
Housing: polymer, black.  
Control gear, 60Hz, 120V dimmable, 277V switchable. Longitudinally water-tight cable AWG14, L 31 1/2" / 800mm.  
LED module: high-power LEDs on metal-core PCB. Collimating lens made of optical polymer.  $\pm 10^\circ$  tilt. Softec lens.  
Cover frame: stainless steel. Safety glass: 3/8" / 10mm, clear.  
Installation with separate connection sleeve.  
Mounting in recessed housing: can be driven over in vehicles with pneumatic tyres. Load 4500lb.wt / 20kN.  
Mounting in hollow floor: mounting kit to be ordered separately.  
120V: Dimming with external dimmers possible (trailing edge).  
Suitable for wet location (IP68): dust-proof.  
Weight 6.94lbs / 3.15kg



### Technical data

Luminous flux of the luminaire	1058lm
Connected load	31W
Luminaire efficacy	34lm/W
Color deviation	2 SDCM
Color rendition index	CRI>90
Lumen maintenance	L90/B10 ≤50000h
LED failure rate	0.1% ≤50000h
LMF	E
Temperature on the cover glass	126°F / 52°C

For your regional contact in the  
ERCO Sales network click here  
[www.ercos.com/contact](http://www.ercos.com/contact)

© ERCO GmbH 2017

Technical region: 120V/60Hz, 277V/  
60Hz

We reserve the right to make technical  
and design changes.

Edition: 11.04.2017

Current version under

[www.ercos.com/32808.023](http://www.ercos.com/32808.023)

**FIXTURE TYPE:**  
**AG-02**

## Planning data

Cleaning (a)	1				2				3			
Ambient conditions	P	C	N	D	P	C	N	D	P	C	N	D
LMF	0.96	0.94	0.90	0.86	0.93	0.91	0.86	0.81	0.92	0.90	0.84	0.79
RSMF	0.99	0.97	0.95	0.92	0.98	0.97	0.95	0.92	0.98	0.97	0.95	0.92

Hours of operation (h)	1000	5000	10000	20000	30000	40000	50000
LLMF	1.00	0.99	0.98	0.96	0.94	0.92	0.90
LSF	1	1	1	1	1	1	1

MF	LMFxRSMFxLLMFxLSF
MF	Maintenance Factor
LMF	Luminaire Maintenance Factor
RSMF	Room Surface Maintenance Factor
LLMF	Lamp Lumens Maintenance Factor
LSF	Lamp Survival Factor
P	Room pure
C	Room clean
N	Room normal
D	Room dirty

### Technical data based on international standards and directives

IEC 60598	Luminaires – Parts 1 + 2: General requirements, particular requirements and tests
IEC 62031	LED modules for general lighting – Safety specifications
IEC 62471	Photobiological safety of lamps and lamp systems
UL 1598	Luminaires
UL 1574	Standard for Track Lighting Systems
UL 8750	Standard for Light Emitting Diode (LED) Equipment for Use in Lighting Products
IES LM-79-08	Electrical and Photometric Measurements of Solid-State Lighting Products
IES LM-80-08	Measuring Lumen Maintenance of LED Light Sources
CIE 13	Method of measuring and specifying color rendering properties of light sources

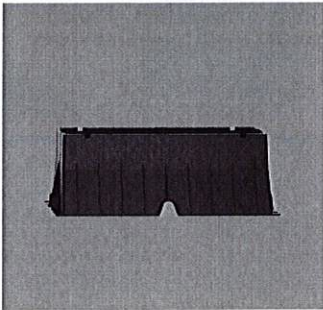
All technical data are subject to industry standard tolerances.  
See also [www.ercos.com/ercos-led](http://www.ercos.com/ercos-led)



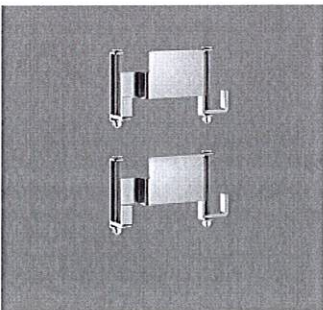
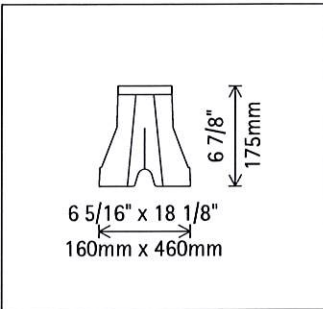
## Accessories



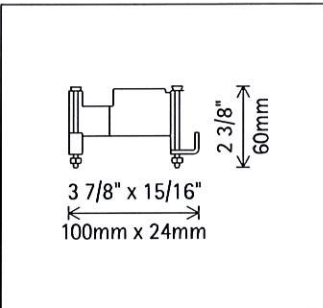
**33958.023**  
 Connection sleeve  
 for cable diameters of 0.25" - 0.80".  
 Polymer conduit, two-part PUR cast  
 resin.  
 Length 5 15/16" / 150mm.  
 Width 1 1/4" / 32mm.  
 Height 2 3/8" / 59mm.  
 Weight 0.99lbs / 0.45kg

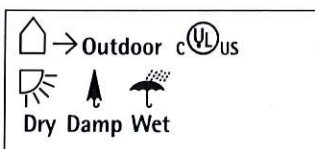
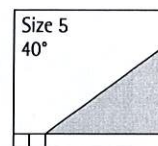
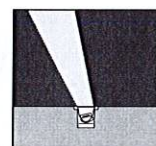
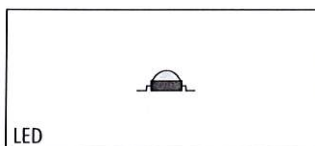
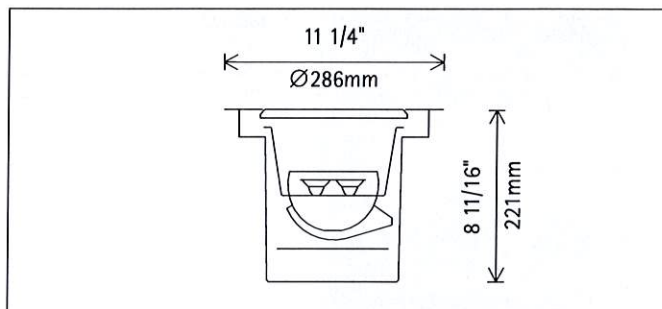


**33295.000**  
 Recessed housing  
 Polymer, black.  
 4 cable entries.  
 Load 4500lb.wt / 20kN.  
 Weight 1.88lbs / 0.85kg



**33293.000**  
 Mounting kit  
 Mounting in hollow floors.  
 2 mounting brackets: stainless steel.  
 Clamp extension 1/16" - 1 13/16" /  
 1-46mm.  
 Load 4500lb.wt / 20kN.  
 Floor aperture: 16 5/8" - 3 7/8" /  
 422mmx98mm  
 Weight 0.30lbs / 0.14kg



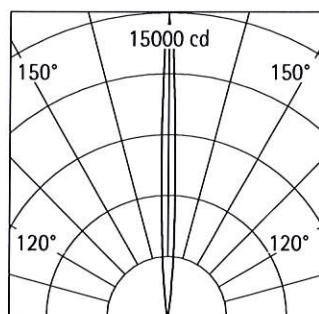


## 35110.023

LED 4W 420lm 3000K warm white  
0-10V dimmable  
Version 8  
Covered mounting detail  
Spherolit lens, narrow spot

## Product description

Housing: polymer, black.  
Control gear 120V, 60Hz, dimmable.  
Longitudinally watertight cable  
5xAWG14, L 31 1/2" / 800mm.  
LED module: high-power LEDs on  
metal-core PCB. Collimating lens made  
of optical polymer. 0-30° tiltable, rotat-  
able through 360°.  
Optical cut-off 40° from horizontal.  
Screw-fastened cover ring with flush  
safety glass: stainless steel. Safety glass:  
9/16" / 15mm, clear.  
Installation with separate connection  
sleeve.  
Mounting in recessed housing: can be  
driven over in vehicles with pneumatic  
tyres. Load 11240lb.wt / 50kN.  
Mounting in hollow floor: mounting kit  
to be ordered separately.  
Dimming with external dimmers possi-  
ble (0-10V).  
Suitable for wet location (IP68): dust-  
proof.  
Weight 12.06lbs / 5.47kg  
Available from 2nd quarter 2017



h(ft)	E(fc)	D
		5°
15	65	1'4"
12	102	1'1"
9	181	0'9"
6	408	0'6"
3	1633	0'3"

## Technical data

Luminous flux of the luminaire	301lm
Connected load	6W
Luminaire efficacy	50lm/W
Color deviation	2 SDCM
Color rendition index	CRI>90
Lumen maintenance	L90/B10 ≤50000h
LED failure rate	0.1% ≤50000h
LMF	E
Temperature on the cover glass	86°F / 30°C

For your regional contact in the  
ERCO Sales network click here  
[www.erco.com/contact](http://www.erco.com/contact)

Technical region: 120V/60Hz  
We reserve the right to make technical  
and design changes.  
Edition: 11.04.2017  
Current version under  
[www.erco.com/35110.023](http://www.erco.com/35110.023)



## Planning data

Cleaning (a)	1				2				3			
Ambient conditions	P	C	N	D	P	C	N	D	P	C	N	D
LMF	0.96	0.94	0.90	0.86	0.93	0.91	0.86	0.81	0.92	0.90	0.84	0.79
RSMF	0.91	0.83	0.68	0.51	0.90	0.81	0.67	0.50	0.90	0.81	0.67	0.50

Hours of operation (h)	1000	5000	10000	20000	30000	40000	50000
LLMF	1.00	0.99	0.98	0.96	0.94	0.92	0.90
LSF	1	1	1	1	1	1	1

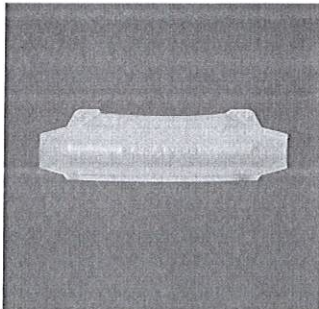
MF	LMFxRSMFxLLMFxLSF
MF	Maintenance Factor
LMF	Luminaire Maintenance Factor
RSMF	Room Surface Maintenance Factor
LLMF	Lamp Lumens Maintenance Factor
LSF	Lamp Survival Factor
P	Room pure
C	Room clean
N	Room normal
D	Room dirty

### Technical data based on international standards and directives

IEC 60598	Luminaires – Parts 1 + 2: General requirements, particular requirements and tests
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IES LM-79-08	Electrical and Photometric Measurements of Solid-State Lighting Products
IES LM-80-08	Measuring Lumen Maintenance of LED Light Sources
CIE 13	Method of measuring and specifying color rendering properties of light sources

All technical data are subject to industry standard tolerances.  
See also [www.erco.com/erco-led](http://www.erco.com/erco-led)

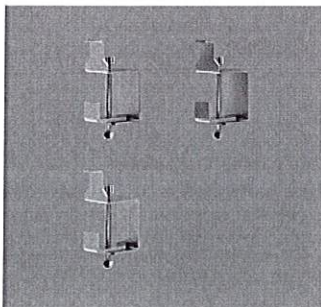
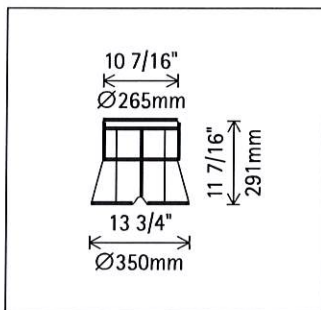
## Accessories



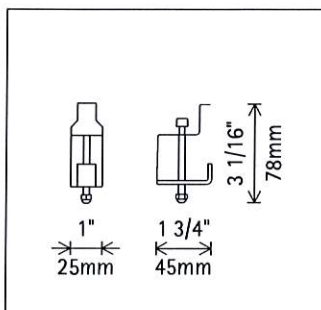
**33958.023**  
 Connection sleeve  
 for cable diameters of 0.25" - 0.80".  
 Polymer conduit, two-part PUR cast resin.  
 Length 5 15/16" / 150mm.  
 Width 1 1/4" / 32mm.  
 Height 2 3/8" / 59mm.  
 Weight 0.99lbs / 0.45kg



**33964.000**  
 Recessed housing  
 Polymer, black.  
 4 cable entries.  
 Load 11240lb.wt / 50kN.



**33988.000**  
 Mounting kit  
 Mounting in hollow floors.  
 3 mounting brackets: stainless steel.  
 Clamp extension 7/16" - 1 13/16" / 11-46mm.  
 Load 4500lb.wt / 20kN.  
 Floor aperture:  
 Size 5: ø 10 1/16" / 255mm  
 Size 7: ø 11 9/16" / 293mm





## ULA-60001

## Light Linear LA 1 Inground



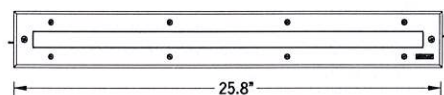
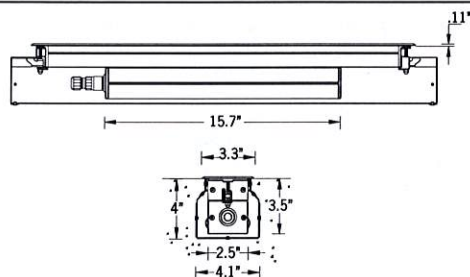
## Physical Data

Length • 25.8"

Height • 4"

Weight • 10 lbs

IP67 • Suitable For Wet Locations  
IK09 • Impact Resistant (Vandal Resistant)



Light Linear LA inground family is a range of small profile linear product that complements the Light Linear LA recessed wall, surface wall and pendant luminaires. The inground fixture is available with a selection of optics, as well as a forward throw asymmetric distribution that is achieved with an internally tilted gear tray. This walkover rated luminaire is available with RGBW color changing, as well as static white color in 2700K, 3000K and 4000K formats. The Light Linear LA inground is provided with a concrete pour or dirt mounting recessing box as a standard. This recessing box can be shipped to the jobsite ahead of time, if requested.

The Light Linear LA is suitable for wall grazing, wall washing, column lighting and uplight applications and can be used in many applications including; commercial, historic, or modern architectural interiors and exteriors. Two different lengths are provided allowing the luminaire installation to be tailored exactly to the architectural structure. The luminaire is provided with an integral driver. A remote driver can be provided, please contact the factory for more details.

Options of clear or frosted tempered 8mm thick glass with a load rating of 1,100lb.

Aluminum

Less than 0.1% copper content – Marine Grade 6060 extruded & LM6 Aluminum High Pressure die casting provides excellent mechanical strength, clean detailed product lines and excellent heat dissipation.

Pre paint

8 step degrease and phosphate process that includes deoxidizing and etching as well as a zinc and nickel phosphate process before product painting.

Memory Retentive -Silicon Gasket.

Provided with special injection molded "fit for purpose" long life high temperature memory retentive silicon gaskets. Maintains the gaskets exact profile and seal over years of use and compression.

Thermal management.

LM6 Aluminum is used for its excellent mechanical strength and thermal dissipation properties in low and high ambient temperatures. The superior thermal heat sink design by Ligman used in conjunction with the driver, controls thermals below critical temperature range to ensure maximum luminous flux output, as well as providing long LED service life and ensuring less than 10% lumen depreciation at 50,000 hours.

Surge Suppression

Standard 10kv surge suppressor provided with all fixtures.

Finishing

All Ligman products go through an extensive finishing process that includes fettling to improve paint adherence.

Paint.

UV Stabilized 4.9Mil thick powder coat paint and baked at 200 Deg C.

This process ensures that Ligman products can withstand harsh environments. Rated for use in natatoriums.

Frame & Hardware.

Marine grade 316 Stainless steel.

Anti Seize Screw Holes

Tapped holes are infused with a special anti seize compound designed to prevent seizure of threaded connections, due to electrolysis from heat, corrosive atmospheres and moisture.

Crystal Clear Low Iron Glass Lens.

Provided with tempered, impact resistant crystal clear low iron glass ensuring no green glass tinge.

Optics & LED

Precise optic design provides exceptional light control and precise distribution of light. LED CRI > 80

Lumen - Maintenance Life

L80 /B10 at 50,000 hours (This means that at least 90% of the LED still achieve 80% of their original flux)

## Standard Options

## Lamp

28w LED

2847 Lumens

## Beam

VN • Very Narrow 12°

N • Narrow 14°

M • Medium 24°

W • Wide 44°

E • Elliptical 18"x35°

## LED Color

W27 • 2700K

W30 • 3000K

W40 • 4000K

## Options (Consult Factory for Pricing)

F - Frosted Lens

Ordering Example : ULA - 60001 - 28w - N - W30 - 120/277v - Options

ULA	Lamp	Beam	LED Color	Voltage	Options
60001	28w LED				
		VN Very Narrow N Narrow M Medium W Wide E Elliptical	W27 2700K W30 3000K W40 4000K	120/277v Other (Specify)	F Frosted Lens

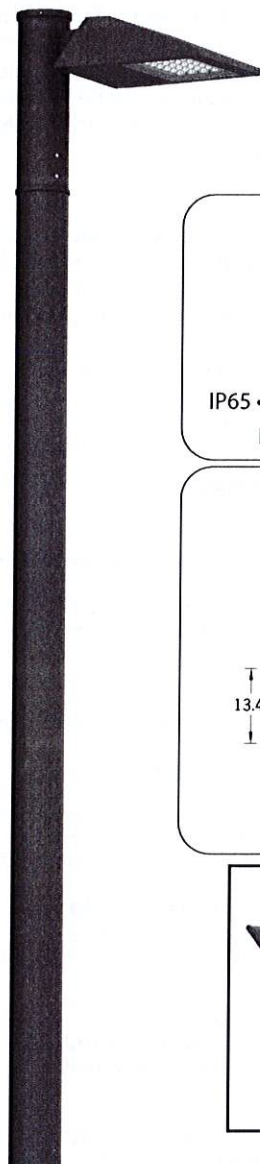
PROJECT: DATE: QUANTITY: TYPE: NOTE: 

Head Office:  
7144 NW Progress Ct

Tel: 503-645-0500

FIXTURE TYPE:  
AG-04



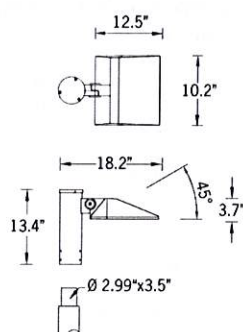


### Physical Data

Length • 18.2"

Weight • 16.7 lbs

IP65 • Suitable For Wet Locations  
IK08 • Impact Resistant



A slim wedge shaped pole mount area light with a variety of different distributions to suit all lighting designer's requirements.

This luminaire has been designed to provide excellent light distribution patterns using a low wattage LED package. The result is excellent spacing to mounting height ratios, with a uniform lighting layout that meets code requirements using less energy.

The Vektor can be utilized to suit specific light patterns using the asymmetrical type II, III, IV and symmetrical lens optics, as well as variations of these for precise light distribution requirements. An example of this is using a combination of Type II & Type IV distribution optics inside the same fixture.

Type V distributions in medium, wide, very wide & extra wide are also available.

These fixtures are adjustable, and can also be aimed as floodlights to provide focus lighting in specific areas, as well as facade lighting.

This luminaire is suitable for most applications and complies to dark sky requirements when mounted in the horizontal position. Designed for lighting private roadways, car parks, exhibition areas, service stations and truck stops. Internal house side shields are available as an option.

Available with a selection of integral electronic and dimmable electronic drivers as well as a provision to install wireless lighting controls to integrate with building management systems.

For 55w version 5000lm, see UVK-90002

#### Aluminum Housing

Less than 0.1% copper content – Marine Grade LM6 Aluminum provides excellent mechanical strength, clean detailed product lines and excellent heat dissipation.

#### Pre paint

8 step degrease and phosphate process that includes deoxidizing and etching as well as a zinc and nickel phosphate process before product painting.

#### Memory Retentive -Silicon Gasket.

Provided with special injection molded "fit for purpose" long life high temperature memory retentive silicon gaskets with integrated waterproof barriers. Maintains the gaskets exact profile and seal over years of use and compression.

#### Thermal management.

LM6 Aluminum is used for its excellent mechanical strength and thermal dissipation properties in low and high ambient temperatures. The superior thermal heat sink design by Ligman used in conjunction with the driver, controls thermals below critical temperature range to ensure maximum luminous flux output, as well as providing long LED service life and ensuring less than 10% lumen depreciation at 50,000 hours.

#### Surge Suppression

Standard 10kv surge suppressor provided with all fixtures.

#### Finishing

All Ligman products go through an extensive finishing process that includes fettling to improve paint adherence.

#### Paint.

UV Stabilized 4.9Mil thick powder coat paint and baked at 200 Deg C. This process ensures that Ligman products can withstand harsh environments. Bollard is powdercoated internally for additional protection.

#### Hardware.

Provided Hardware is Marine grade 316 Stainless steel.

#### Anti Seize Screw Holes

Tapped holes are infused with a special anti seize compound designed to prevent seizure of threaded connections, due to electrolysis from heat, corrosive atmospheres and moisture.

#### Crystal Clear Low Iron Glass Lens.

Provided with tempered, impact resistant crystal clear low iron glass ensuring no green glass tinge.

#### Optics & LED

Precise optic design provides exceptional light control and precise distribution of light. LED CRI > 80

#### Lumen - Maintenance Life

L80 /B10 at 50,000 hours (This means that at least 90% of the LED still achieve 80% of their original flux)

#### Standard Options

##### Lamp

40w LED  
3836 Lumens  
for M,W,VW & EW  
Beams

[2x40w see UVK-90011]  
[2x55w see UVK-90012]

##### Beam - Type V

M • Medium 32°  
W • Wide 52°  
VW • Very Wide 65°  
EW • Extra Wide 108°

T2 • Type II Distribution - 3367lm  
T3 • Type III Distribution - 3385lm  
T4 • Type IV Distribution - 3440lm

##### LED Color

W27 • 2700K  
W30 • 3000K  
W40 • 4000K

##### Finish Color

01 - Black - RAL 9011  
02 - Dark Grey - RAL 7043  
03 - White - RAL 9003  
04 - Metallic Silver - RAL 9006  
05 - Matte Silver - RAL 9006  
06 - Bronze - RAL 6014  
07 - Custom RAL

#### Options (Consult Factory for Pricing)

OS • Occupancy Sensor  
HSS • House Side Shield  
F • Frosted Lens

Ordering Example : UVK - 90001 - 40w - T2 - W30 - 02 - 120/277v - Options

UVK	Lamp		Beam		LED Color		Color		Voltage		Options	
	90001	40w LED										
			M	Medium	W27	2700K	01	Black	120/277v		OS	Occupancy Sensor
			W	Wide	W30	3000K	02	Dark Grey	Other (Specify)		HSS	House Side Shield
			VW	Very Wide	W40	4000K	03	White			F	Frosted Lens
			EW	Extra Wide			04	Metallic Silver				
			T2	Type II Distribution			05	Matte Silver				
			T3	Type III Distribution			06	Bronze				
			T4	Type IV Distribution			07	Custom RAL				

PROJECT:

DATE:

QUANTITY:

TYPE:

NOTE:

Head Office:  
7144 NW Progress Ct

Tel: 503-645-0500

FIXTURE TYPE:  
AP-01





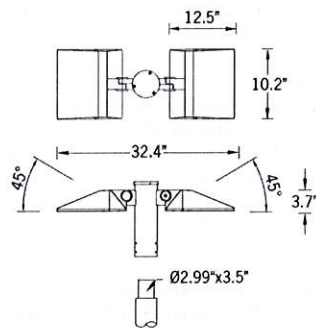
## Physical Data

Length • 32.4"

Weight • 29 lbs

IP65 • Suitable For Wet Locations

IK08 • Impact Resistant



A slim wedge shaped pole mount area light with a variety of different distributions to suit all lighting designer's requirements.

This luminaire has been designed to provide excellent light distribution patterns using a low wattage LED package. The result is excellent spacing to mounting height ratios, with a uniform lighting layout that meets code requirements using less energy.

The Vekter can be utilized to suit specific light patterns using the asymmetrical type II, III, IV and symmetrical lens optics, as well as variations of these for precise light distribution requirements. An example of this is using a combination of Type II & Type IV distribution optics inside the same fixture.

Type V distributions in medium, wide, very wide & extra wide are also available.

These fixtures are adjustable, and can also be aimed as floodlights to provide focus lighting in specific areas, as well as facade lighting.

This luminaire is suitable for most applications and complies to dark sky requirements when mounted in the horizontal position. Designed for lighting private roadways, car parks, exhibition areas, service stations and truck stops. Internal house side shields are available as an option.

Available with a selection of integral electronic and dimmable electronic drivers as well as a provision to install wireless lighting controls to integrate with building management systems.

For 2x55w version 9972lm, see UVK-90012

Aluminum Housing

**Less than 0.1% copper content – Marine Grade LM6 Aluminum** provides excellent mechanical strength, clean detailed product lines and excellent heat dissipation.

Pre paint

**8 step degrease and phosphate process** that includes deoxidizing and etching as well as a zinc and nickel phosphate process before product painting.

Memory Retentive -Silicon Gasket.

Provided with special injection molded "fit for purpose" long life high temperature memory retentive silicon gaskets with integrated waterproof barriers. Maintains the gaskets exact profile and seal over years of use and compression.

Thermal management.

LM6 Aluminum is used for its excellent mechanical strength and thermal dissipation properties in low and high ambient temperatures. The superior thermal heat sink design by Ligman used in conjunction with the driver, controls thermals below critical temperature range to ensure maximum luminous flux output, as well as providing long LED service life and ensuring less than 10% lumen depreciation at 50,000 hours.

Surge Suppression

Standard 10kv surge suppressor provided with all fixtures.

Finishing

All Ligman products go through an extensive finishing process that includes fettling to improve paint adherence.

Paint.

**UV Stabilized 4.9mil thick powder coat paint** and baked at 200 Deg C.

This process ensures that Ligman products can withstand harsh environments.

Bollard is powdercoated internally for additional protection.

Hardware.

Provided Hardware is **Marine grade 316 Stainless steel.**

Anti Seize Screw Holes

Tapped holes are infused with a special anti seize compound designed to prevent seizure of threaded connections, due to electrolysis from heat, corrosive atmospheres and moisture.

Crystal Clear Low Iron Glass Lens.

Provided with tempered, impact resistant crystal clear low iron glass ensuring no green glass tinge.

Optics & LED

Precise optic design provides exceptional light control and precise distribution of light.

LED CRI > 80

Lumen - Maintenance Life

**L80 /B10 at 50,000 hours** (This means that at least 90% of the LED still achieve 80% of their original flux)

## Standard Options

## Lamp

2x40w LED  
2x3836 Lumens  
for M,W,VW & EW  
Beams

[40w see UVK-90001]  
[55w see UVK-90002]

## Beam - Type V

M • Medium 32°

W • Wide 52°

VW • Very Wide 65°

EW • Extra Wide 108°

T2 • Type II Distribution - 2x3367lm

T3 • Type III Distribution - 2x3385lm

T4 • Type IV Distribution - 2x3440lm

## LED Color

W27 • 2700K

W30 • 3000K

W40 • 4000K

## Finish Color

01 - Black - RAL 9011  
02 - Dark Grey - RAL 7043  
03 - White - RAL 9003  
04 - Metallic Silver - RAL 9006  
05 - Matte Silver - RAL 9006  
06 - Bronze - RAL 6014  
07 - Custom RAL



## Options (Consult Factory for Pricing)

OS • Occupancy Sensor

HSS • House Side Shield

F • Frosted Lens

Ordering Example : UVK - 90011 - 2x40w - T2 - W30 - 02 - 120/277v - Options

UVK	Lamp	Beam	LED Color	Color	Voltage		Options	
90011	2x40w LED							
		M Medium	W27 2700K	01 Black	120/277v		OS Occupancy Sensor	
		W Wide	W30 3000K	02 Dark Grey	Other (Specify)		HSS House Side Shield	
		VW Very Wide	W40 4000K	03 White			F Frosted Lens	
		EW Extra Wide		04 Metallic Silver				
		T2 Type II Distribution		05 Matte Silver				
		T3 Type III Distribution		06 Bronze				
		T4 Type IV Distribution		07 Custom RAL				

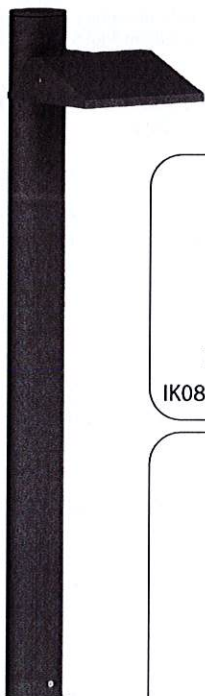
PROJECT: DATE: QUANTITY: TYPE: NOTE: 

Head Office:  
7144 NW Progress Ct

Tel: 503-645-0500

FIXTURE TYPE:  
AP-02





### Physical Data

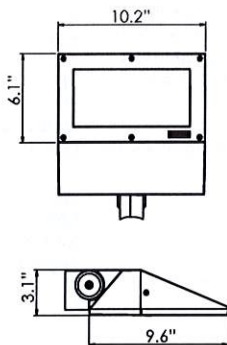
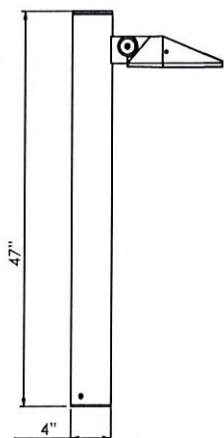
Length • 13.6"

Height • 47"

Weight • 16.5lbs

IP65 • Suitable For Wet Locations

IK08 • Impact Resistant (Vandal Resistant)



The Vektor bollard range is designed utilizing specially developed optics to provide exceptional spacing and uniformity. This fixture complements the Vektor wall and pole top luminaire. This lighe fixture is available in 20w and 27w configurations with a single or double head options with a selection of beam spreads that include Type II, III, IV and type V in medium, wide, very wide and extra wide distributions. This fixture range is unique in that designer's can be creative with the required light distribution and incorporate various optics within the same fixture. e.g using type II and type IV distribution optics within the same fixture. Developed for lighting driveways, pathways and squares.

#### Aluminum

Less than 0.1% copper content – Marine Grade 6060 extruded & LM6 Aluminum High Pressure die casting provides excellent mechanical strength, clean detailed product lines and excellent heat dissipation.

#### Pre paint

8 step degrease and phosphate process that includes deoxidizing and etching as well as a zinc and nickel phosphate process before product painting.

#### Memory Retentive -Silicon Gasket

Provided with special injection molded "fit for purpose" long life high temperature memory retentive silicon gaskets. Maintains the gaskets exact profile and seal over years of use and compression.

#### Thermal management

LM6 Aluminum is used for its excellent mechanical strength and thermal dissipation properties in low and high ambient temperatures. The superior thermal heat sink design by Ligman used in conjunction with the driver, controls thermals below critical temperature range to ensure maximum luminous flux output, as well as providing long LED service life and ensuring less than 10% lumen depreciation at 50,000 hours.

#### Surge Suppression

Standard 10kv surge suppressor provided with all fixtures.

#### Finishing

All Ligman products go through an extensive finishing process that includes fettling to improve paint adherence.

#### Paint

UV Stabilized 4.9Mil thick powder coat paint and baked at 200 Deg C.

This process ensures that Ligman products can withstand harsh environments. Rated for use in natatoriums.

#### Hardware

Provided Hardware is Marine grade 316 Stainless steel.

#### Anti Seize Screw Holes

Tapped holes are infused with a special anti seize compound designed to prevent seizure of threaded connections, due to electrolysis from heat, corrosive atmospheres and moisture.

#### Crystal Clear Low Iron Glass Lens

Provided with tempered, impact resistant crystal clear low iron glass ensuring no green glass tinge.

#### Optics & LED

Precise optic design provides exceptional light control and precise distribution of light. LED CRI > 80

#### Lumen - Maintenance Life

L80 /B10 at 50,000 hours (This means that at least 90% of the LED still achieve 80% of their original flux)

#### Standard Options

##### Lamp

20w LED

1932 Lumens  
for M,W,VW & EW  
Beams

##### Beam - Type V

M • Medium 31°

W • Wide 53°

VW • Very Wide 66°

EW • Extra Wide 110°

T2 • Type II Distribution - 1704lm

T3 • Type III Distribution - 1712lm

T4 • Type IV Distribution - 1679lm

##### LED Color

W27 • 2700K

W30 • 3000K

W40 • 4000K

##### Finish Color

01 - Black - RAL 9011

02 - Dark Grey - RAL 7043

03 - White - RAL 9003

04 - Metallic Silver - RAL 9006

05 - Matte Silver - RAL 9006

06 - Bronze - RAL 6014

07 - Custom RAL

#### Options (Consult Factory for Pricing)

HGT • Custom Height

NAT • Natatorium &  
High Salt Environments.

F • Frosted Lens

dering Example : UVK - 10001 - 20w LED - M - W30 - 02 - 120/277v - Options

UVK	Lamp	Beam	LED Color	Color	Voltage	Options
10001	20w LED					
		M Medium	W27 2700K	01 Black	120/277v	HGT Custom Height
		W Wide	W30 3000K	02 Dark Grey	Other (Specify)	NAT Natatorium Rated
		VW Very Wide	W40 4000K	03 White		F Frosted Lens
		EW Extra Wide		04 Metallic Silver		
		T2 Type II Distribution		05 Matte Silver		
		T3 Type III Distribution		06 Bronze		
		T4 Type IV Distribution		07 Custom RAL		

PROJECT:

DATE:

QUANTITY:

TYPE:

NOTE:

Head Office:  
7144 NW Progress Ct

Tel: 503-645-0500

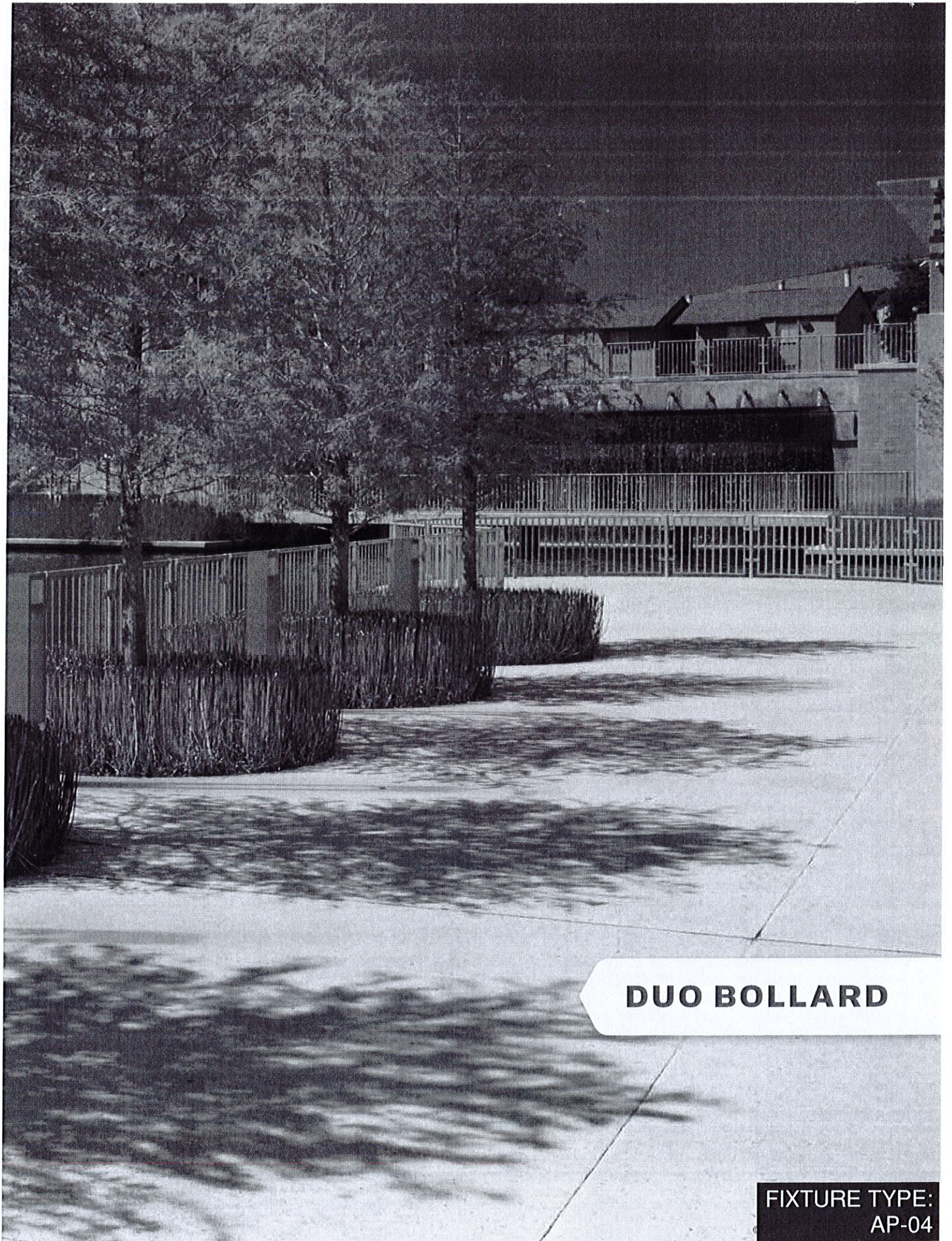
**FIXTURE TYPE:**  
**AP-03**





**FIXTURE TYPE:**  
**AP-04**





## **DUO BOLLARD**

**FIXTURE TYPE:**  
**AP-04**

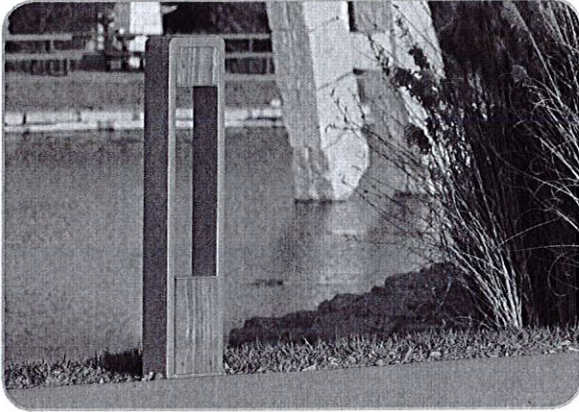


# Duo Bollard

Duo Family Aluminum LED Bollard

FIXTURE TYPE: \_\_\_\_\_

PROJECT NAME: \_\_\_\_\_



Double aluminum extrusion uprights with wood or metal center accents and LED light source.

## FEATURES:

- High power, low wattage COB LED light source
- Available with wood, aluminum, or custom material accent panels
- Concealed anchor bolt base and mounting hardware

## SPECIFICATIONS:

**CONSTRUCTION:** Rectangular extruded aluminum 6063-T6 tubes connected to aluminum 6061-T6 base plate and internal supports with an aluminum 319 top casting.

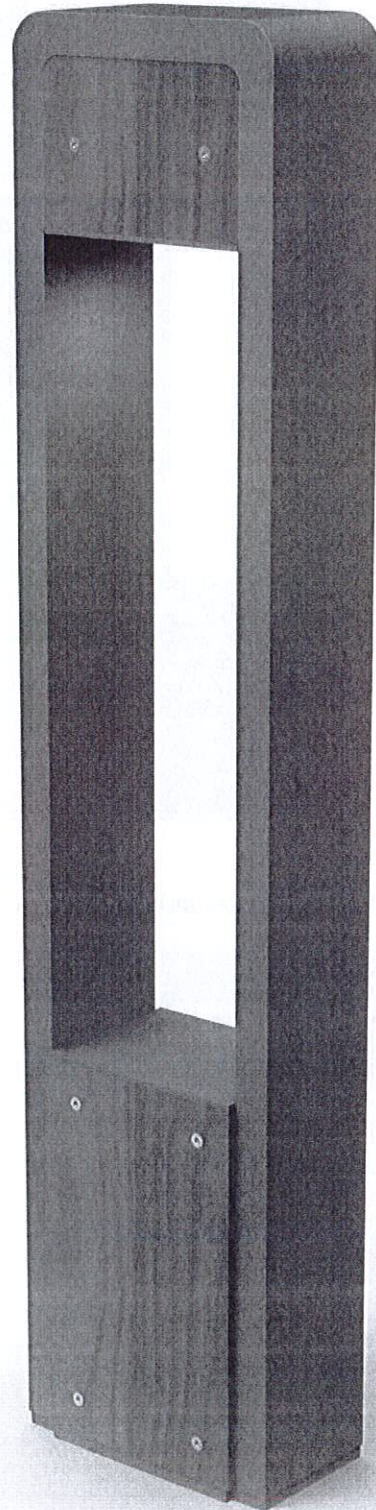
Bollard is fastened to a concrete anchor bolt base with concealed hardware accessible behind accent panel. Anchor bolt kit includes (4) hot dip galvanized anchor bolts and fasteners and a ridged concrete pour template.

**ELECTRICAL:** Constant current electronic driver available in 120V or 277V input. Standard output is 12W. All drivers are Underwriters Laboratories recognized with 0-10V dimming standard. Fixture is internally prewired to the electrical splice box located in the fixture base.

**OPTICAL SYSTEM:** Chip on board LEDs have solderless connections for field upgradability. Available in 2700K, 3000K, 3500K and 4000K color temperatures. Consult factory for additional lumen options.

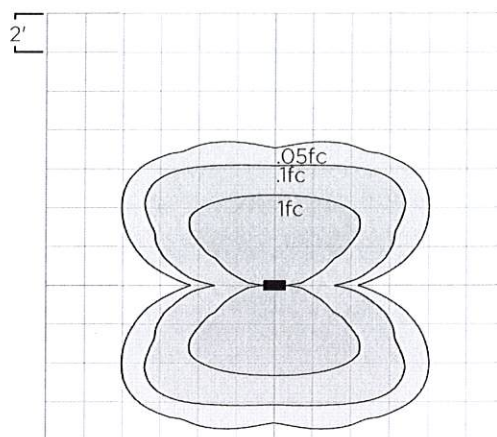
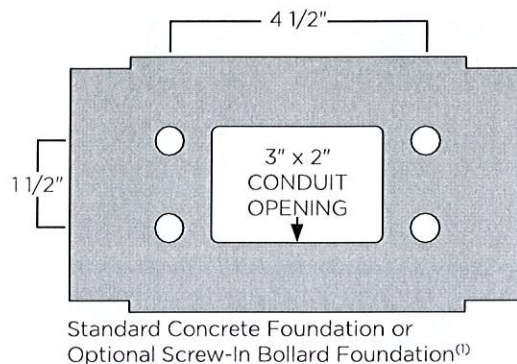
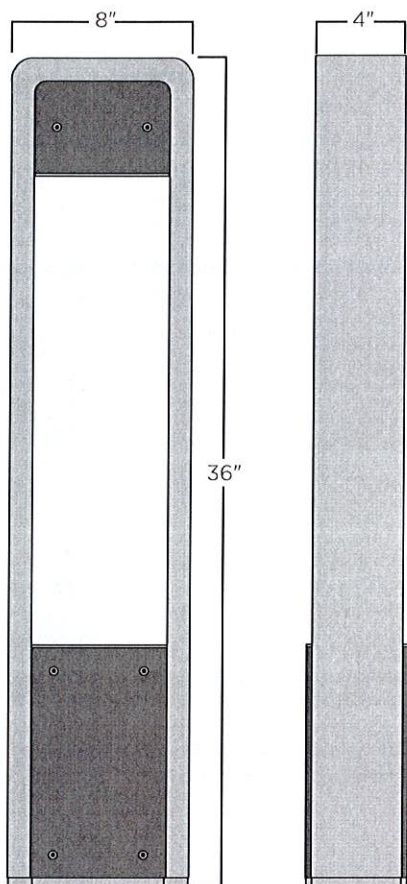
**FINISHES AND MATERIALS:** Woods are finished with a low VOC waterborne matte exterior finish containing UV and mildew inhibitors. All aluminum parts are polyester powder coat painted.

**HARDWARE:** Fasteners are stainless steel. Anchor bolt kits are hot dip galvanized.



**FIXTURE TYPE:**  
**AP-04**





**ORDERING GUIDE:** EXAMPLE: DBL-36-L27SO-C5/P1/S6-120-STD



The mark of  
responsible forestry  
FSC® C102326

<b>DBL</b>	<b>36</b>	<b>SO</b>					
1	2	3	4	5	6	7	8

1	Series	4	Light Source	7	Voltage
<b>DBL</b>	Duo Bollard	<b>SO</b>	680 Lumens	<b>120</b>	120V
2	Overall Height	5	Bollard Finish	<b>277</b>	277V
<b>36</b>	36"	<b>C*</b>	See color options on finishes technical sheet	8	Special
3	Color Temperature	<b>CSM</b>	Custom Color	<b>STD</b>	Standard
<b>L27</b>	2700K LED	6	Panel Material	<b>MOD</b>	Modified
<b>L30</b>	3000K LED				
<b>L35</b>	3500K LED				
<b>L40</b>	4000K LED				
		<b>P1/S*</b>	Wood (specify wood color) <sup>(2)</sup>		
		<b>P2/C*</b>	Aluminum (specify paint color) <sup>(2)</sup>		
		<b>WS</b>	Weathering Steel		

1. Spec sheet for Screw-In Bollard Foundation is available in the Accessories section.  
2. See color options on finishes technical sheet.



Date: \_\_\_\_\_ Customer: \_\_\_\_\_  
 Project: \_\_\_\_\_  
 Type: \_\_\_\_\_ Qty: \_\_\_\_\_

**selux**

## Olivio Medio LED



Order Code: OLML - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_

Pole Order Code: \_\_\_\_\_  
 Series Height Finish Options

OLML	Series	OLML Olivio Medio LED				
	Optics	S09 Spot, 9°	F40 Medium, 41°	F80 Flood, 78°	ASM Asymmtric (no SLH or SLV option)	
	Mounting	U Universal	T1 Single Pole Top			
	Light Engine	L46 46W nominal	L23 23W nominal			
	CCT	30 3000K	40 4000K			
	Finish	WH White	BK Black	BZ Bronze	SV Silver	SP Specify Premium Color
	Voltage	120	208	240	277	
	Options	DS <sup>1</sup> Dark Sky 0° Tilt Option	DM <sup>2</sup> Dimming, 0-10V	SLH Spread Lens Horizontal (fixed)	SLV Spread Lens Vertical (fixed)	20kA 20kA Surge Supression
						<sup>1</sup> IDA certified "Dark Sky Friendly" for Universal Mounting Only  <sup>2</sup> Only available with L46

<sup>1</sup> IDA certified "Dark Sky Friendly" for  
Universal Mounting Only

<sup>2</sup> Only available with L46

### Product Modifications

Please list modification requirements for review by factory:

### Approvals



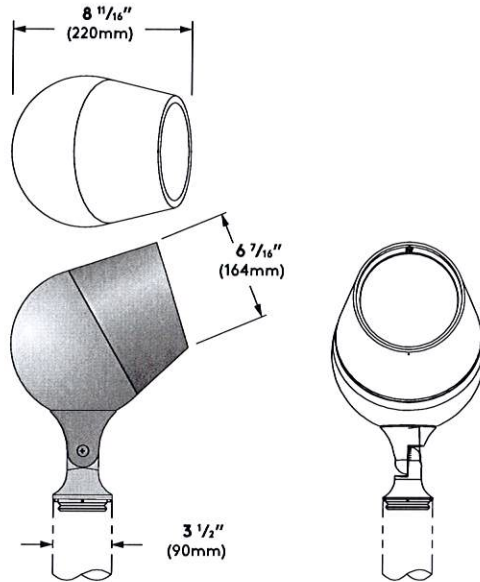
Selux Corporation © 2017, T 845-834-1400, 800-735-8927, F 845-834-1401, [www.selux.us](http://www.selux.us)

In a continuing effort to offer the best product possible, we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product. Specification sheets found at [www.selux.us](http://www.selux.us) are the most recent versions and supercede all other printed or electronic versions.

Date: \_\_\_\_\_

**FIXTURE TYPE:**  
**AP-05**

**OLML-T1**



**Specifications**

**1. Luminaire Housing** - Two piece high pressure die cast housing, made of low copper aluminum alloy. Single recessed captive screw allows easy access to light engine & gear tray components.

**2. Gasketing** - (not shown) UV and ozone-resistant silicone gasket between fixture housing and lens base provide IP67 level ingress protection. IP rated micro-membrane ensures pressure compensation.

**3. Lens** - (not shown) Tempered clear glass lens.

**4. LED Light Engine** - (not shown) made from high flux COB and vacuum metalized aluminum reflectors. Selux is using brand name LED manufacturers. Available in 3000K and 4000K, CRI minimum 80. Reflectors made from high purity aluminum to ensure high efficiencies throughout lifetime. Complete light engine can be removed easily for future upgrade. LED light engine provides a reported lumen maintenance of 84.3% at 60,000 hours. L70 calculated greater than 60,000 hours.

**6. LED Driver** - (not shown) Selux uses brand name high efficiency LED drivers. LEDs are driven by RoHS compliant high-efficiency driver. Excellent for cold temperature starting and instant

on. Min. operating temperature -40°C/ -40°F.

**7. Surge Protector** - (not shown) Designed to protect luminaire from electrical surge up to 10kA. Surge protection up to 20kA optional.

**8. Power Cord** - (not shown) Pre-installed at factory and fed hidden through the luminaire hinge and hinge arm. Power cords are specified to fit the length of the pole specified with the luminaire.

**Exterior Luminaire Finish -**

Selux utilizes a high quality Polyester Powder Coating. All Selux luminaires and poles are finished in our Tiger Drylac certified facility and undergo a five stage intensive pretreatment process where product is thoroughly cleaned, phosphated and sealed. Selux powder coated products provide excellent salt and humidity resistance as well as ultra violet resistance for color retention. All products are tested in accordance with test specifications for coatings from ASTM and PCI.

Standard exterior colors are White (WH), Black (BK), Bronze (BZ), and Silver (SV). Selux premium colors (SP) are available, please specify from your Selux color selection guide. Hot Dip Galva-

nized finish (GV) on all steel parts also available.

**5 Year Limited LED Luminaire Warranty** - Selux offers a 5 Year Limited Warranty to the original purchaser that the Olivio Medio LED Solar luminaire shall be free from defects in material and workmanship for up to five (5) years from date of shipment. This limited warranty covers the LED driver and LED array when installed and operated according to Selux instructions. Fixture suitable for ambient temperature of 40° C (104° F).

**Listings and Ratings:** Luminaire and LED tested to IP67 and IESNA LM-79-08 standards. LED tested to LM-80 standards. Luminaire and LED tested at 25°C ambient temperature.

**OLIVIO LED suitable for ambient temperatures of 40°C (104°F). Minimum operating temperature of luminaire at -40°C (-40°F).**

NRTL Listed for wet location (i.e. UL, CSA)

**Visit [selux.us](http://selux.us) for our LED End of Life recycling policy.**

**Lumen Output for OLML**

Olivio Medio LED	S09	F40	F80	ASM
<b>3000K CRI&gt;80</b>	3208 lm CBCP 46602.8 cd	3263 lm CBCP 5273.9 cd	3010 lm CBCP 2052 cd	2068 lm CBCP 1678 cd
<b>4000K CRI&gt;80</b>	3252 lm CBCP 47253cd	3308 lm CBCP 5347.6cd	3052 lm CBCP 2080.7cd	2820 lm CBCP 1970cd

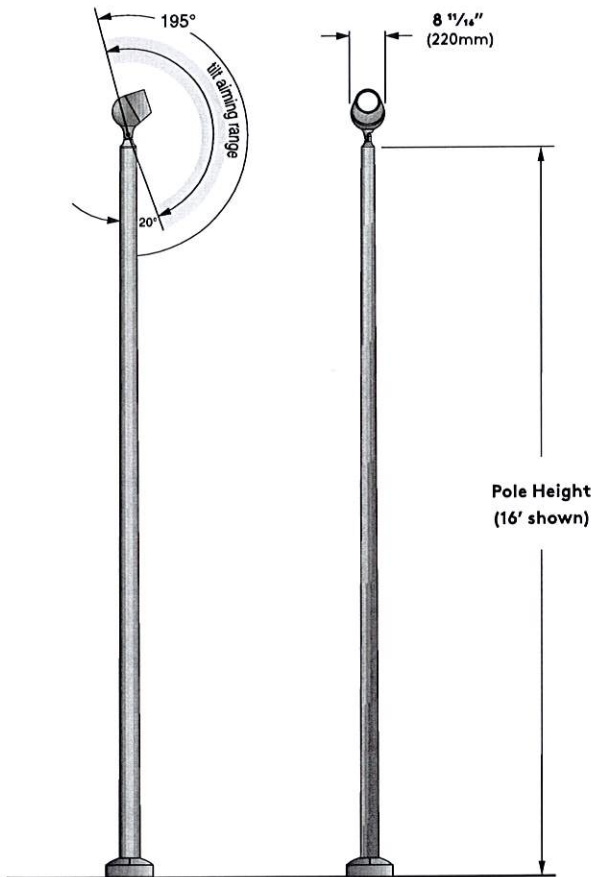
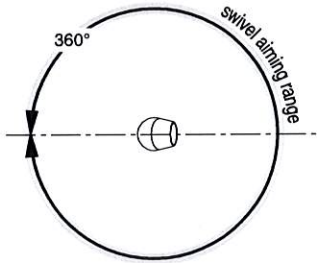


## Mounting

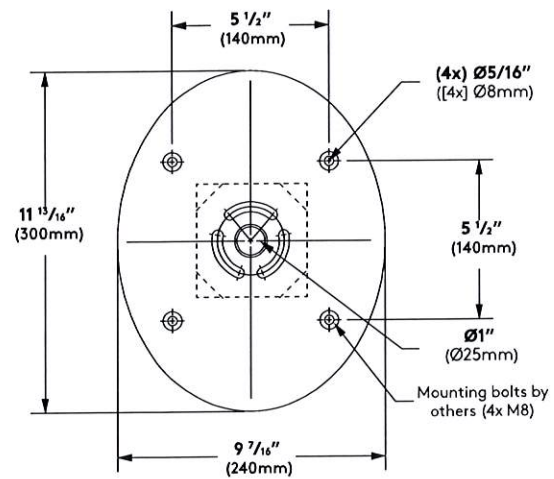
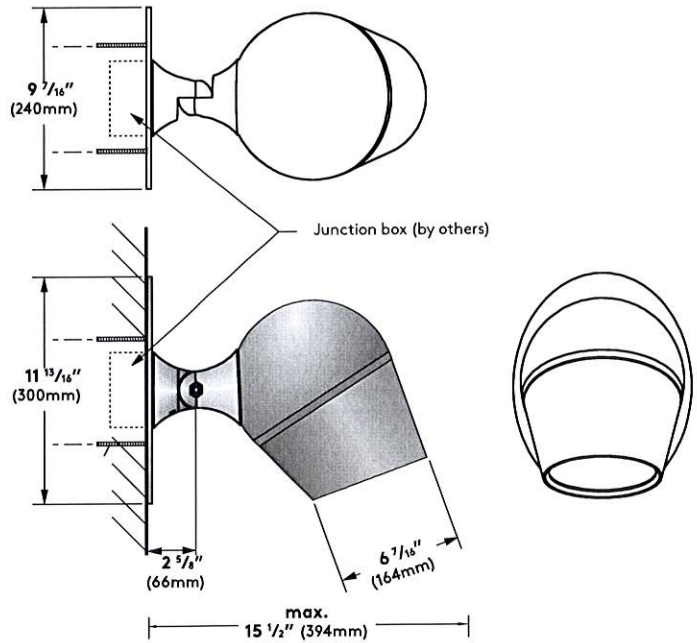
### Single Pole Top (T1)

EPA = 0.7 ft<sup>2</sup> (0.065 m<sup>2</sup>)

Weight = 17 lbs. (7.7 kg)



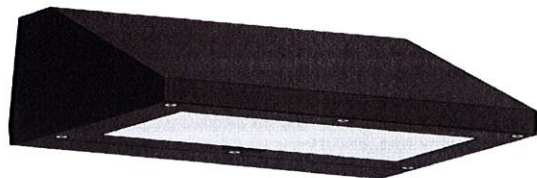
### Universal Surface Mounting (U)



**Note: Wall plate is mounted to surface structure and over junction box (by others)**

## UVK-30001

## Austin-Vekter 1 Small

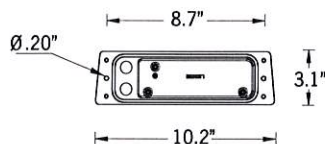
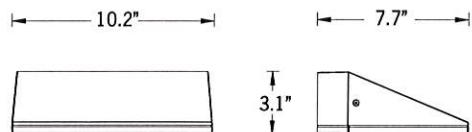
**LIGMAN****LIGHTING USA****Physical Data**

Length • 10.2"

Height • 3.1"

Weight • 7 lbs

IP65 • Suitable For Wet Locations  
IK08 • Impact Resistant (Vandal Resistant)



Mounting Detail

A wedge shaped range of small profile wall mounted luminaires for use in uplight or downlight applications. This product is provided with a range of high powered LEDs with a selection of optics.

The Vekter is unique as it is available with Type II, III, IV & V light distribution options that facilitates wider spacing and even light distribution between the light fixtures. Wide spacings of up to 40' on center can be achieved using a type II optic with uniformity that complies to path of egress requirements. This provides higher energy saving and reduced installation costs. The Vekter can be manufactured using different type beam optics to achieve custom distribution, e.g using type II and type IV optics inside the same luminaire. Integral electronic control gear is housed in a special waterproof box that can be detached from the optical chamber for easy installation.

Mounting plate for 3" and 4" junction box is provided with the fixture. Matching surface mount conduit boxes are available as an option.

The Austin-Vekter is suitable for lighting footpaths, building facades, building entrances and parking areas around buildings. This fixture comes standard with a clear lens, optional frosted lens available as an adder in options below.

For the Austin-Vekter 27w, please see UVK-30002

Aluminum Casting

**Less than 0.1 % copper content – Marine Grade LM6 Aluminum** High Pressure die casting provides excellent mechanical strength, clean detailed product lines and excellent heat dissipation.

Pre paint

**8 step degrease and phosphate process** that includes deoxidizing and etching as well as a zinc and nickel phosphate process before product painting.

Memory Retentive -Silicon Gasket.

Provided with special injection molded "fit for purpose" long life high temperature memory retentive silicon gaskets. Maintains the gaskets exact profile and seal over years of use and compression.

Thermal management.

LM6 Aluminum is used for its excellent mechanical strength and thermal dissipation properties in low and high ambient temperatures. The superior thermal heat sink design by Ligman used in conjunction with the driver, controls thermals below critical temperature range to ensure maximum luminous flux output, as well as providing long LED service life and ensuring less than 10% lumen depreciation at 50,000 hours.

Surge Suppression

**Standard 10kv surge suppressor** provided with all fixtures.

BUG Rating

B0-U0-G0

Finishing.

All Ligman products go through an extensive finishing process that includes fettling to improve paint adherence.

Paint.

**UV Stabilized 4.9Mil thick powder coat paint** and baked at 200 Deg C.

This process ensures that Ligman products can withstand harsh environments.

Hardware.

Provided Hardware is **Marine grade 316 Stainless steel.**

Anti Seize Screw Holes

Tapped holes are infused with a special anti seize compound designed to prevent seizure of threaded connections, due to electrolysis from heat, corrosive atmospheres and moisture.

Crystal Clear Low Iron Glass Lens.

Provided with tempered, impact resistant crystal clear low iron glass ensuring no green glass tinge.

Optics & LED

Precise optic design provides exceptional light control and precise distribution of light. LED CRI > 80

Lumen - Maintenance Life

**L80 /B10 at 50,000 hours** (This means that at least 90% of the LED still achieve 80% of their original flux)

## Standard Options

## Lamp

20w LED 1932 Lumens  
for M,W,VW & EW Beam

## Beam

M • Medium 31°  
W • Wide 53°  
VW • Very Wide 66°  
EW • Extra Wide 110°

T2 • Type II Distribution - 1704lm  
T3 • Type III Distribution - 1712lm  
T4 • Type IV Distribution - 1679lm

## LED Color

W27 • 2700K  
W30 • 3000K  
W40 • 4000K

## Finish Color

01 - Black - RAL 9011  
02 - Dark Grey - RAL 7043  
03 - White - RAL 9003  
04 - Metallic Silver - RAL 9006  
05 - Matte Silver - RAL 9006  
06 - Bronze - RAL 6014  
07 - Custom RAL



## Options (Consult Factory for Pricing)



SCE - Custom Surface  
Conduit Entry Box

EMR • Remote Emergency Pack

F - Frosted Lens

NAT - Natorium  
& High Corrosio  
Environments

Ordering Example : UVK - 30001 - 20w - T2 - W30 - 02 - 120/277v - Options

UVK	Lamp	Beam	LED Color	Color	Voltage	Options
30001	20w LED					
		M Medium	W27 2700K	01 Black	120/277v	SCE Surface Conduit Entry
		W Wide	W30 3000K	02 Dark Grey	Other (Specify)	EMR Remote Emergency Pack
		VW Very Wide	W40 4000K	03 White		F Frosted Lens
		EW Extra Wide		04 Metallic Silver		NAT Natorium Rated
		T2 Type II Distribution		05 Matte Silver		
		T3 Type III Distribution		06 Bronze		
		T4 Type IV Distribution		07 Custom RAL		

PROJECT: DATE: QUANTITY: TYPE: NOTE: 

Head Office:  
7144 NW Progress Ct

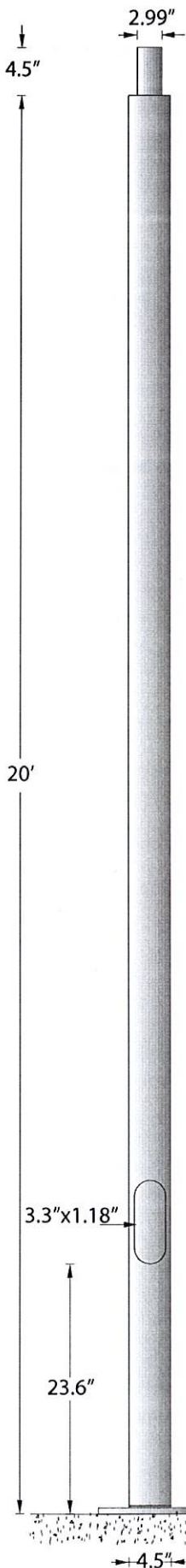
Tel: 503-645-0500

**FIXTURE TYPE:**  
**AW-01**

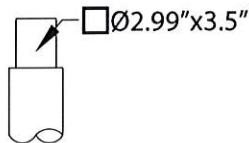


# SPD-RSS-4512- 20' - 4.5" DIA - .125"

## Straight Round Galvanized Steel Powder Coated Pole

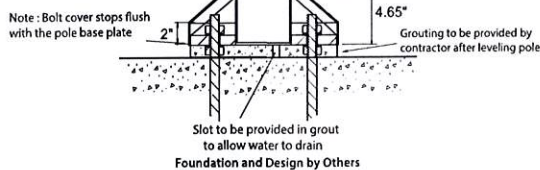


### Tenon Post Top

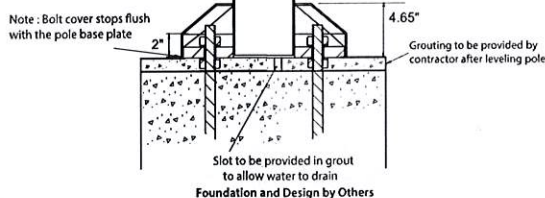


### Pole Mount Install Notes

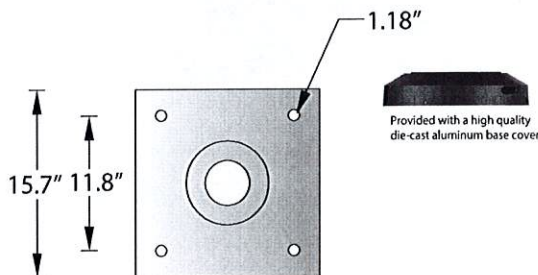
#### Option A



#### Option B



### Mounting Base



### Physical Data

Pole Height: 20'

Thickness: 0.125"

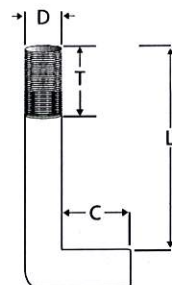
Pole Diameter: 4.5"

Weight: 157.6 lbs

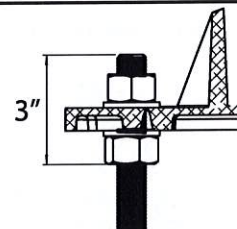
Anchor Bolt Size in Inches

**D x L x C x T**

3/4 x 24 x 4 x 6



### Bolt Projection



### Color (Please Specify)

- ☐ 01-Black - RAL 9011
- ☐ 02- Dark Grey - RAL 7043
- ☐ 03-White - RAL 9003
- ☐ 04- Metallic Silver - RAL 9006
- ☐ 05-Matt Silver - RAL 9006
- ☐ 07- Custom - RAL \_\_\_\_\_
- ☐ 06-Bronze - RAL 6014



### Maximum EPA

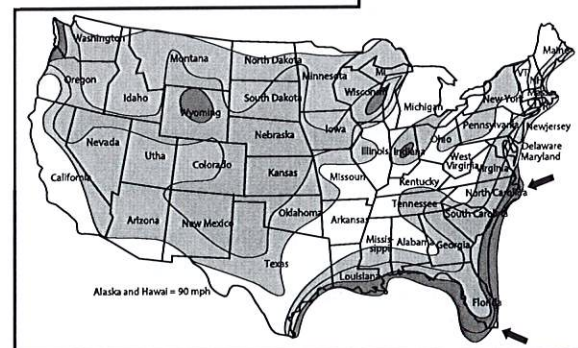
#### Wind Speed (mph)

Mph	70	80	90	100	110
EPA	11.3	8.2	6.1	4.6	3.5

#### Wind speed

- ☐ Below 70 mph
- ☐ 70-80 mph
- ☐ 80-90 mph
- ☐ 90-100 mph
- ☐ Over 100 mph
- ☐ Special high winds Over 100 mph

### Wind Velocity Map



### Not to scale template:

This drawing is being furnished for reference dimensions only and cannot be used as a template to set anchor bolts. Since it is "not to scale" Ligman accepts no responsibility for its intended use. Refer to site plans and specification before installing any anchor bolts.

**\* Contact Ligman Lighting USA for bolt template prior to pouring anchor bolts.**

PROJECT: \_\_\_\_\_

DATE: \_\_\_\_\_

**FIXTURE TYPE:**

TYPE: \_\_\_\_\_ QUANTITY: \_\_\_\_\_ NOTE: \_\_\_\_\_

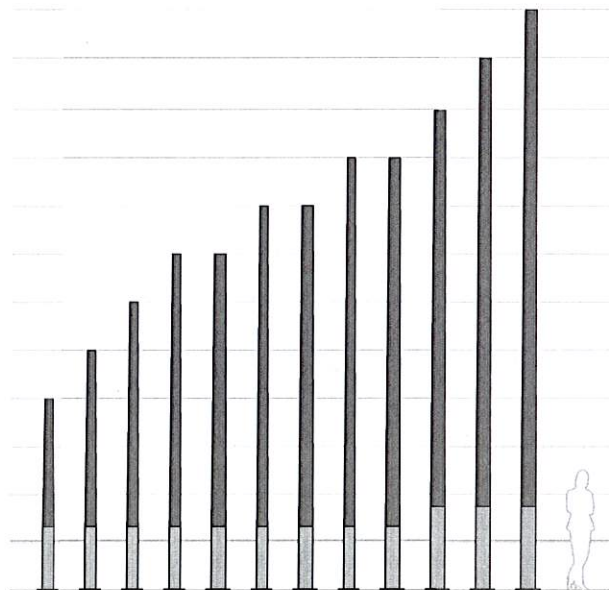
**P-01**



# Bol 8' – 24' Round Tapered and Straight Wood Poles

FIXTURE TYPE: \_\_\_\_\_

PROJECT NAME: \_\_\_\_\_



Round Taper

Glulam solid wood and aluminum pole available in 8' – 24' lengths. Tenon adapters, slip fitters and side bracket mounts are available for luminaire mounting.

## FEATURES:

- Round extruded aluminum pole base with flush handhole cover held with countersunk stainless steel fasteners.
- Tapered, round, solid glulam wood pole

## SPECIFICATIONS:

**HOUSING:** Solid wood pole is assembled through glulam construction and precision machined using CNC technology. An electrical raceway is provided in the pole's center for wiring. Laminations measure no more than 2" in thickness. Adhesive complies with ASTM D-2559 glulam construction specifications for extreme exposed weather conditions, is waterproof and rated for wet or dry use exposure.

Glulam wood shaft is fastened to aluminum pole base welded to a 3/4" thick aluminum anchor bolt base. Anchor bolt kit includes (4) 3/4" hot dip galvanized anchor bolts and fasteners and ridged concrete pour template.

**FIXTURE MOUNTING:** Fixtures mount either by 2 3/8", 2 7/8", 3 1/2", or 4" diameter by 4" tall tenon or drill mount for arm brackets. Consult factory for other tenon sizes. Luminaires shall be provided by others.



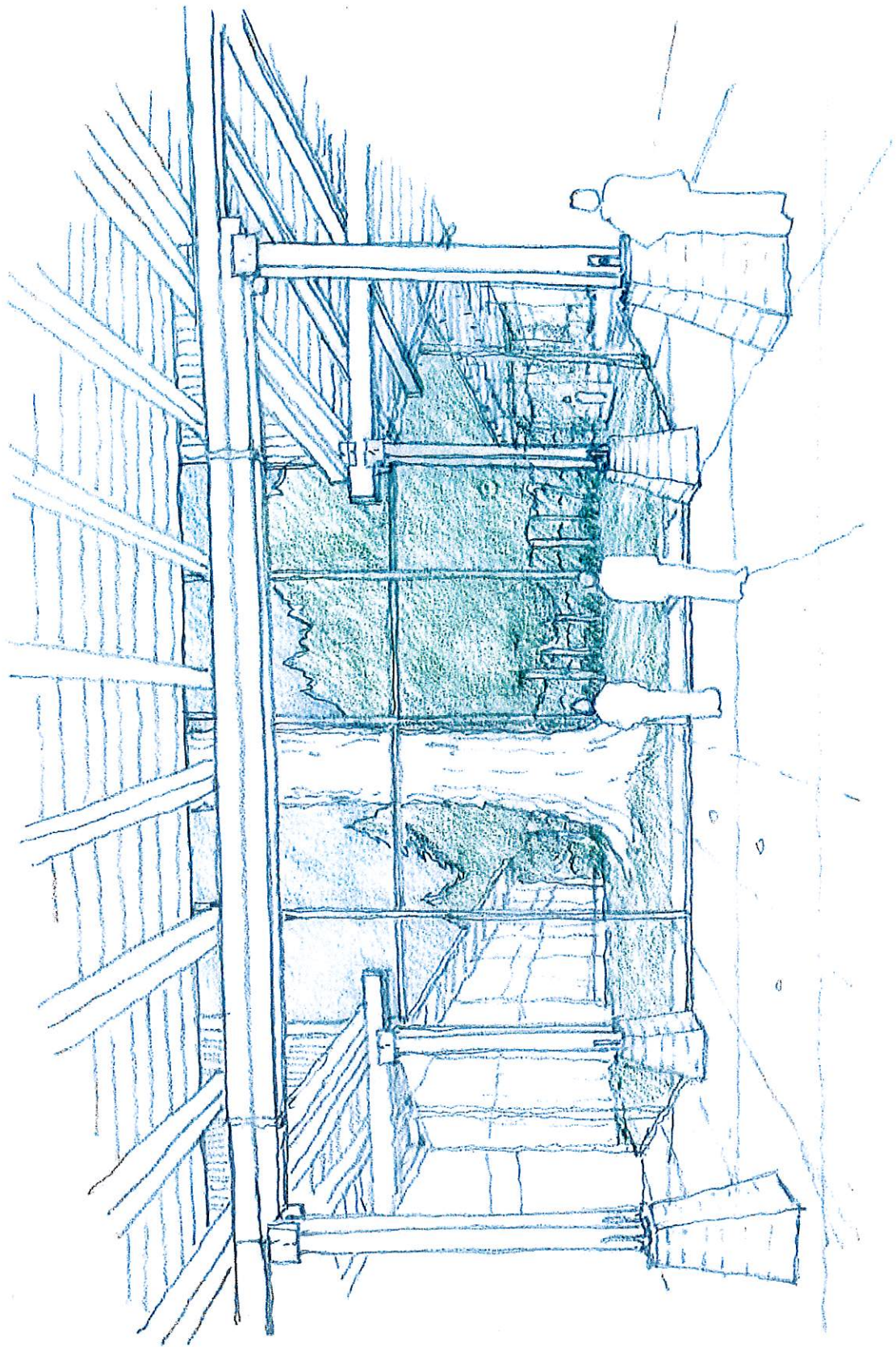
**ELECTRICAL:** A 5/16" – 18 grounding point is provided on the aluminum pole base. Wireway access is provided through a NEC compliant handhole with a flush, gasketed cover plate.

**FINISHES AND MATERIALS:** Woods are finished with a low VOC waterborne matte exterior finish containing UV and mildew inhibitors. All aluminum parts are polyester powder coat painted.

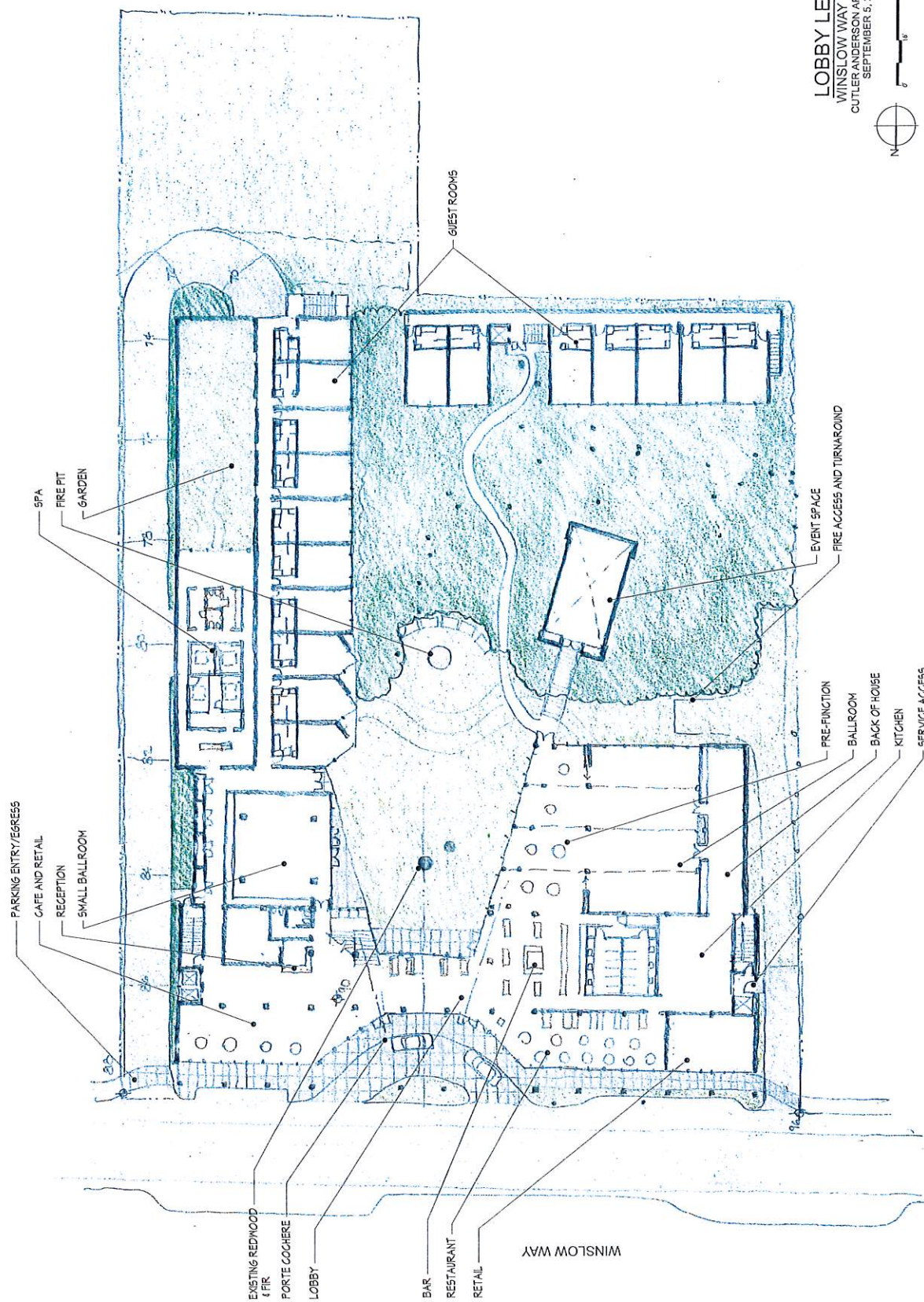
**HARDWARE:** Fasteners are stainless steel. Anchor bolt kits are hot dip galvanized.

**FIXTURE TYPE:**  
P-02







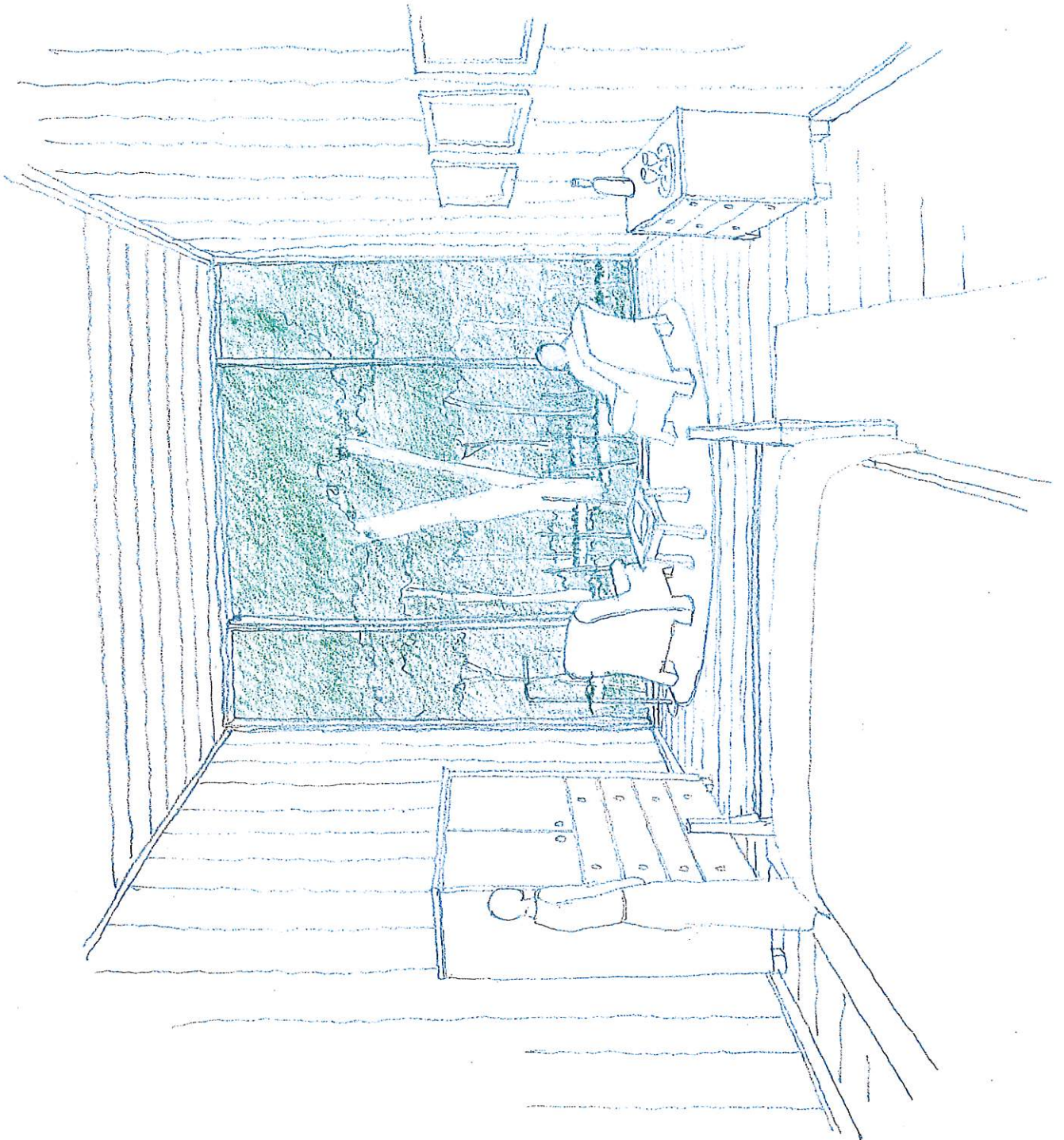


LOBBY LEVEL  
 WINSLOW WAY HOTEL  
 CUTLER ANDERSON ARCHITECTS  
 SEPTEMBER 5, 2017

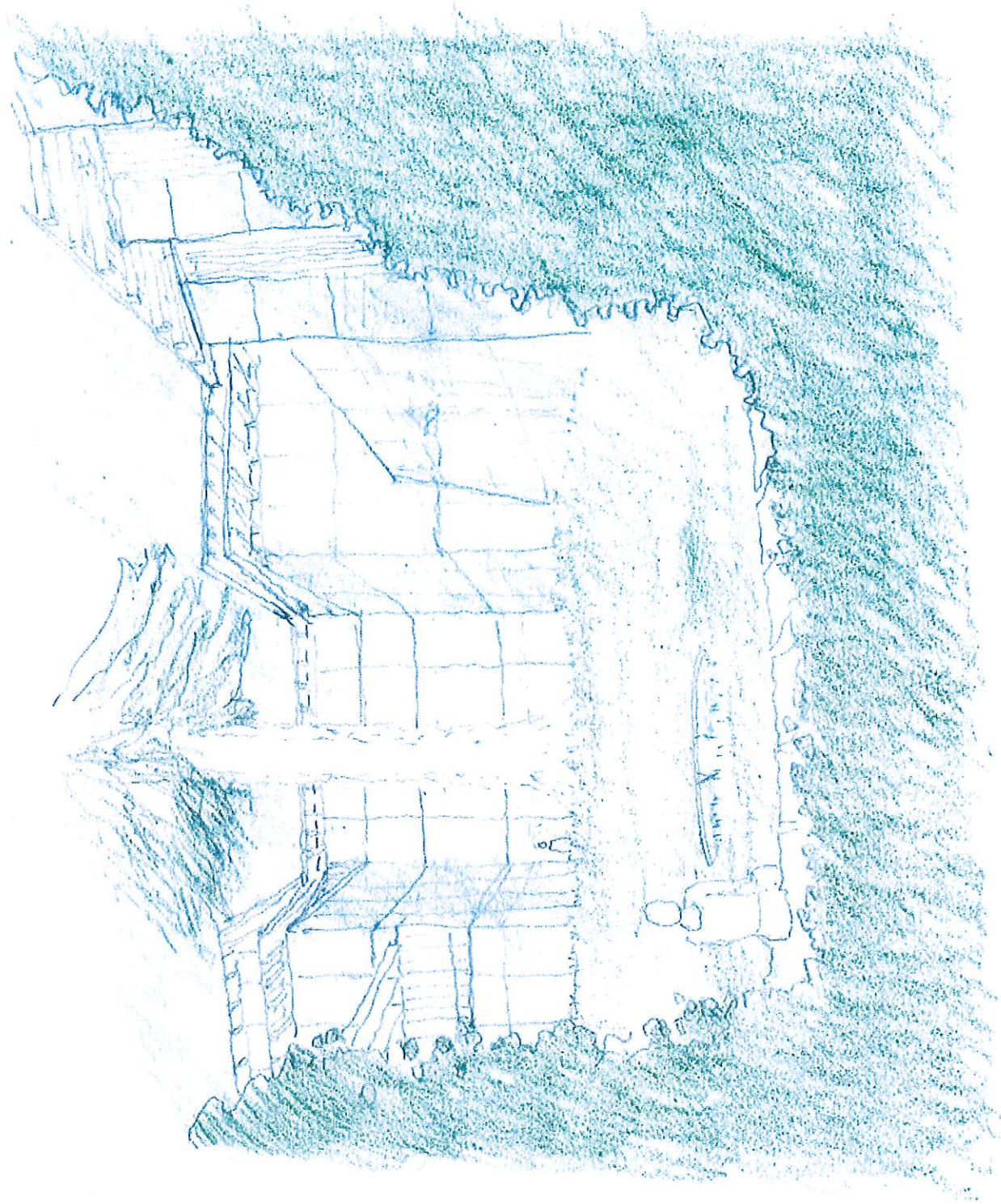


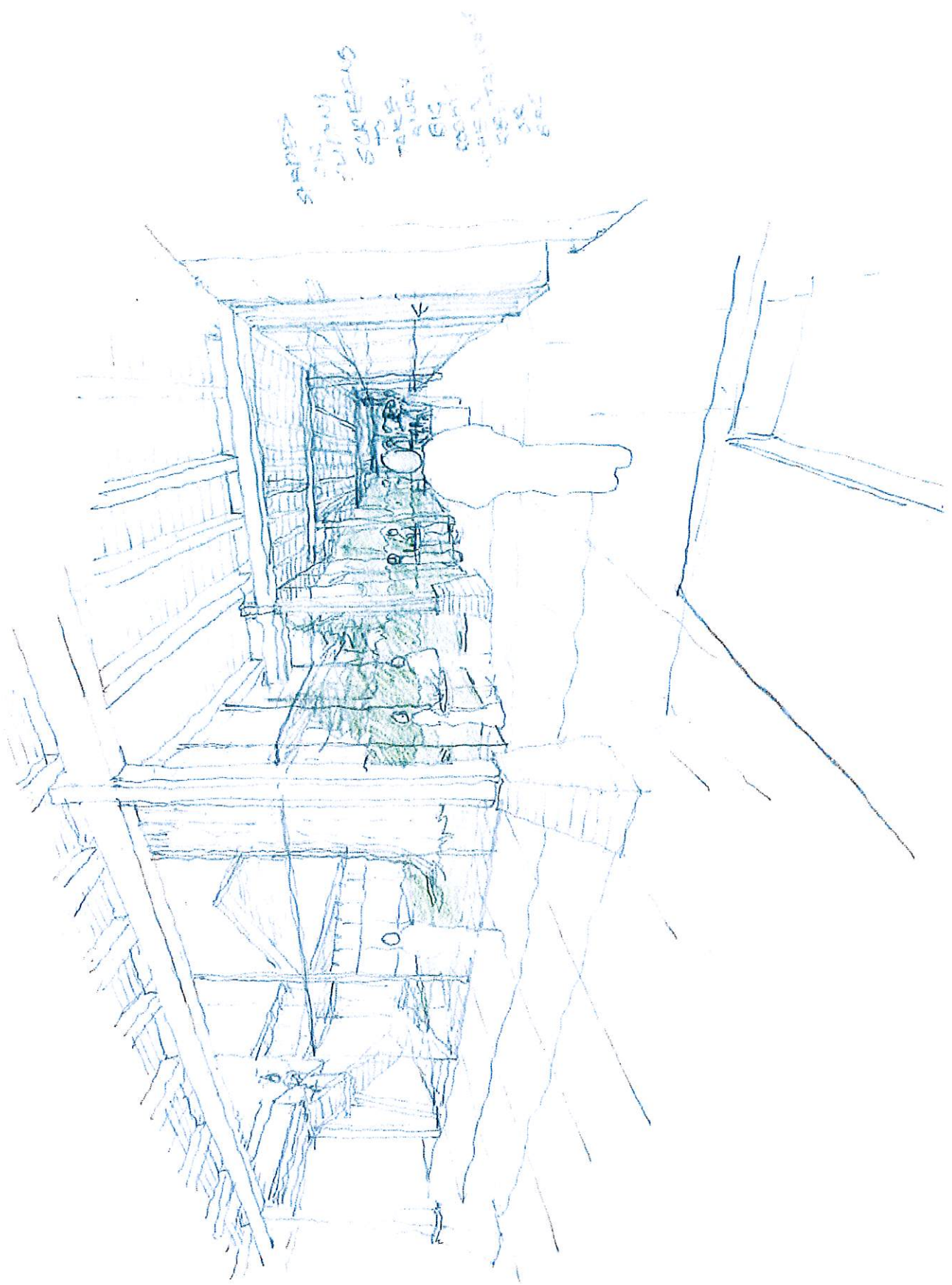




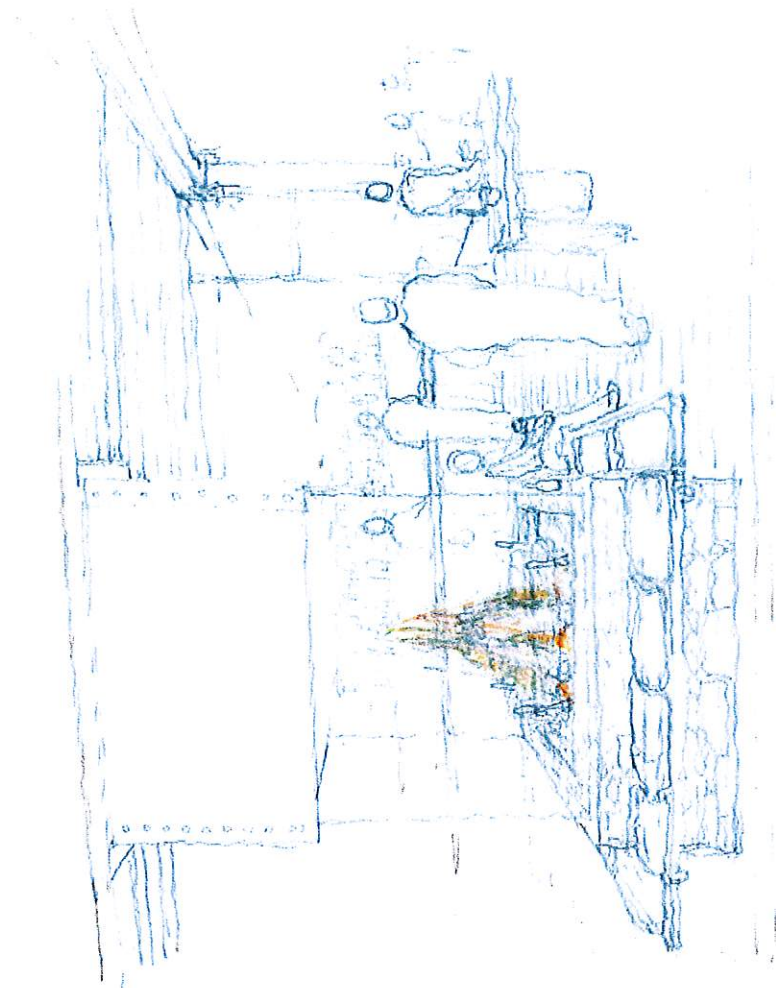


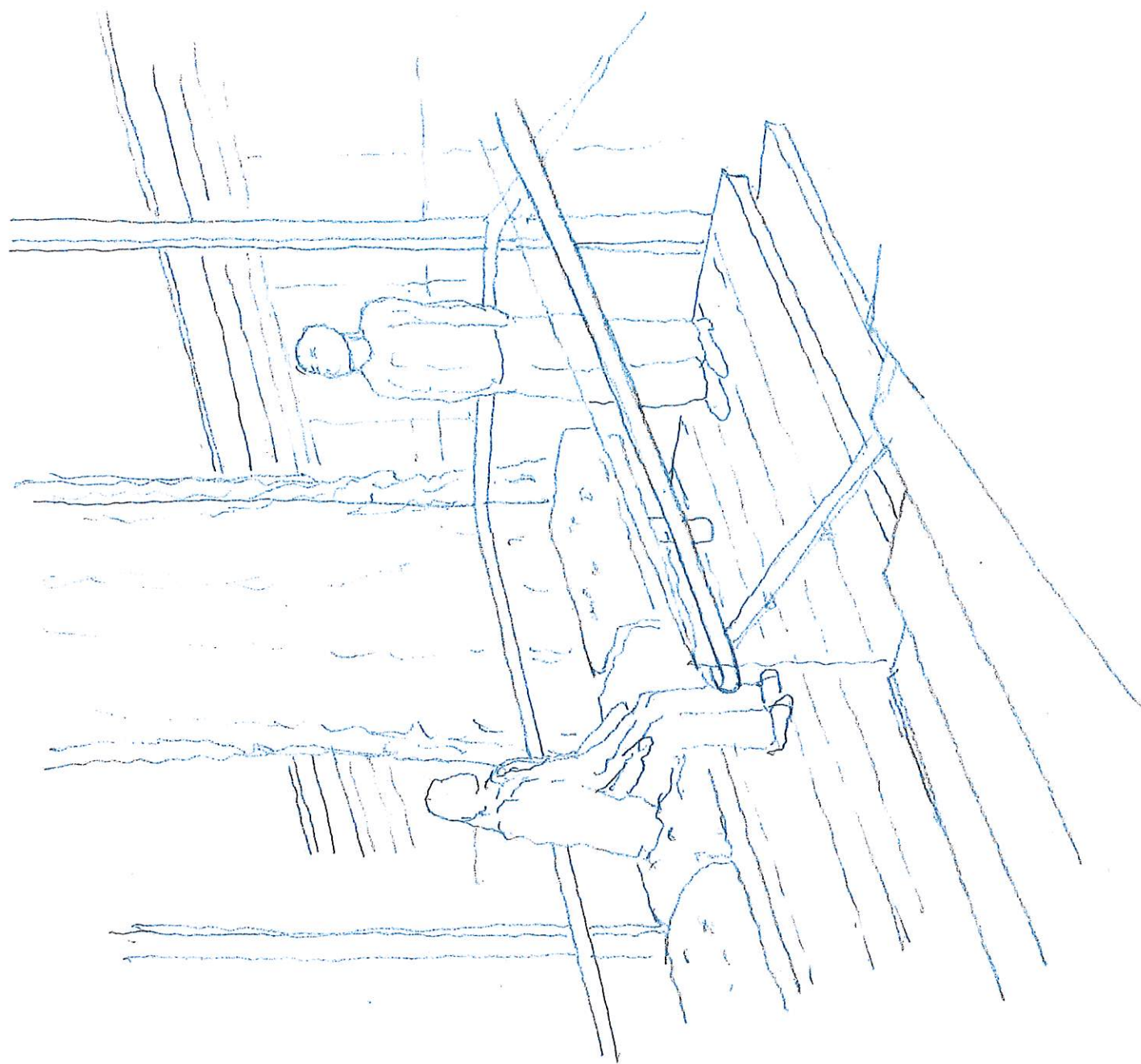




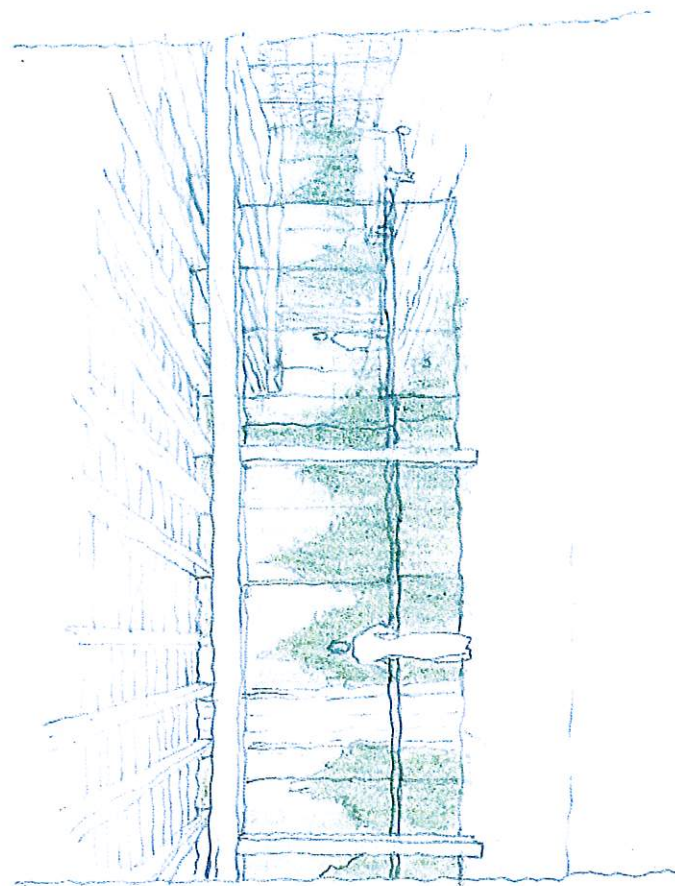


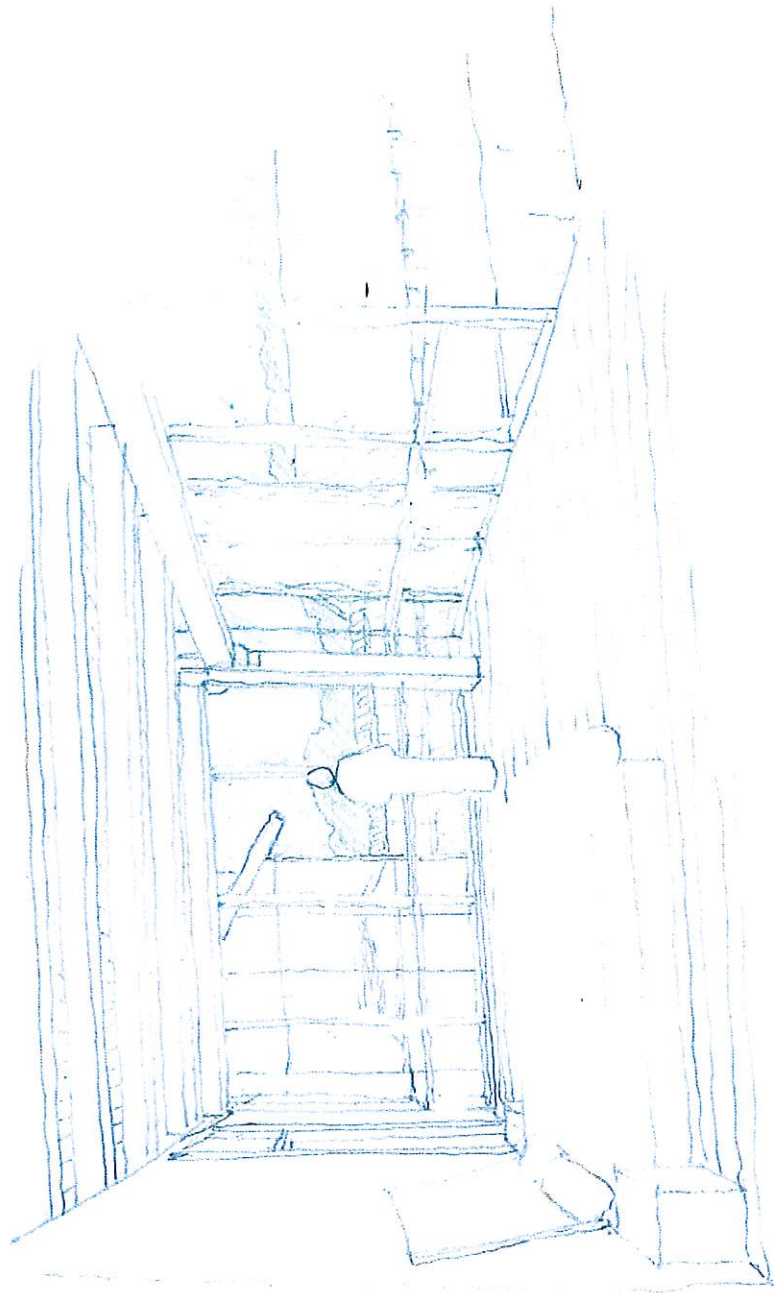




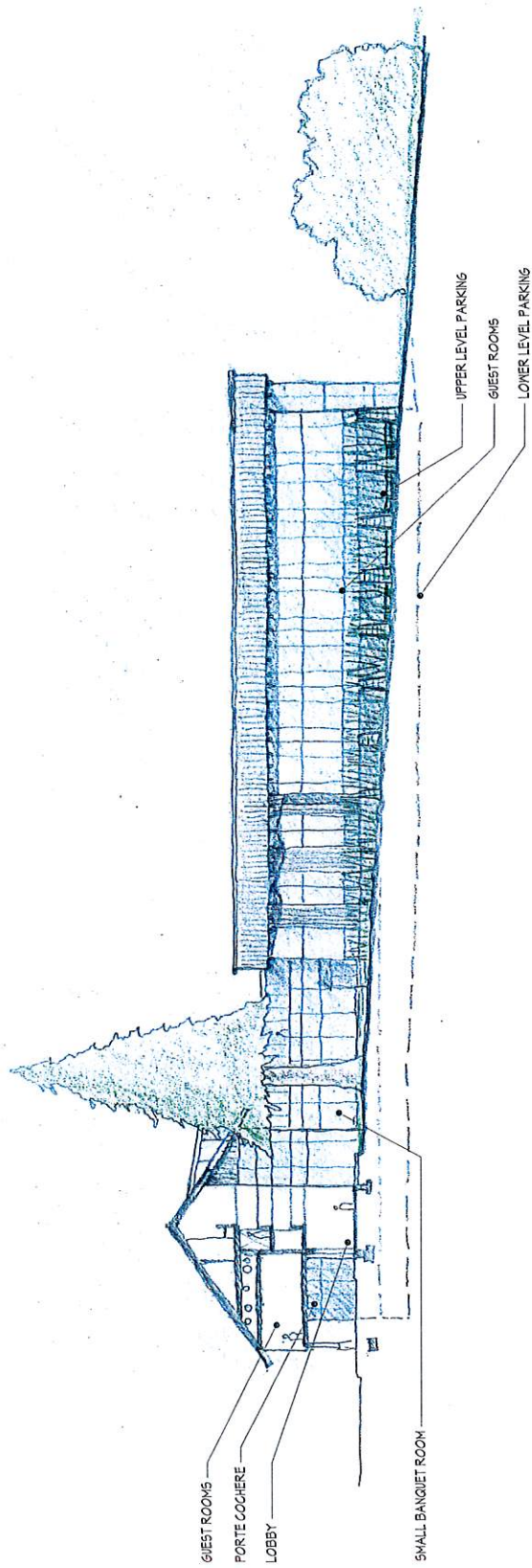








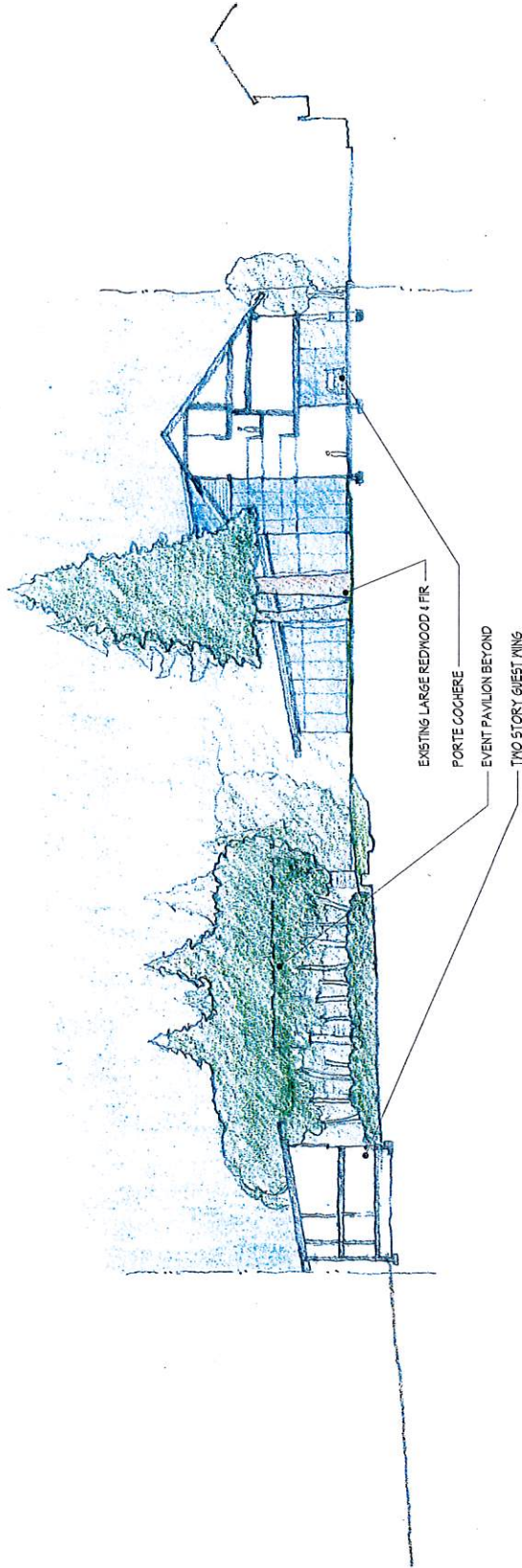




# SECTION LOOKING EAST

WINSLOW WAY HOTEL  
 CUTLER ANDERSON ARCHITECTS  
 SEPTEMBER 5, 2017



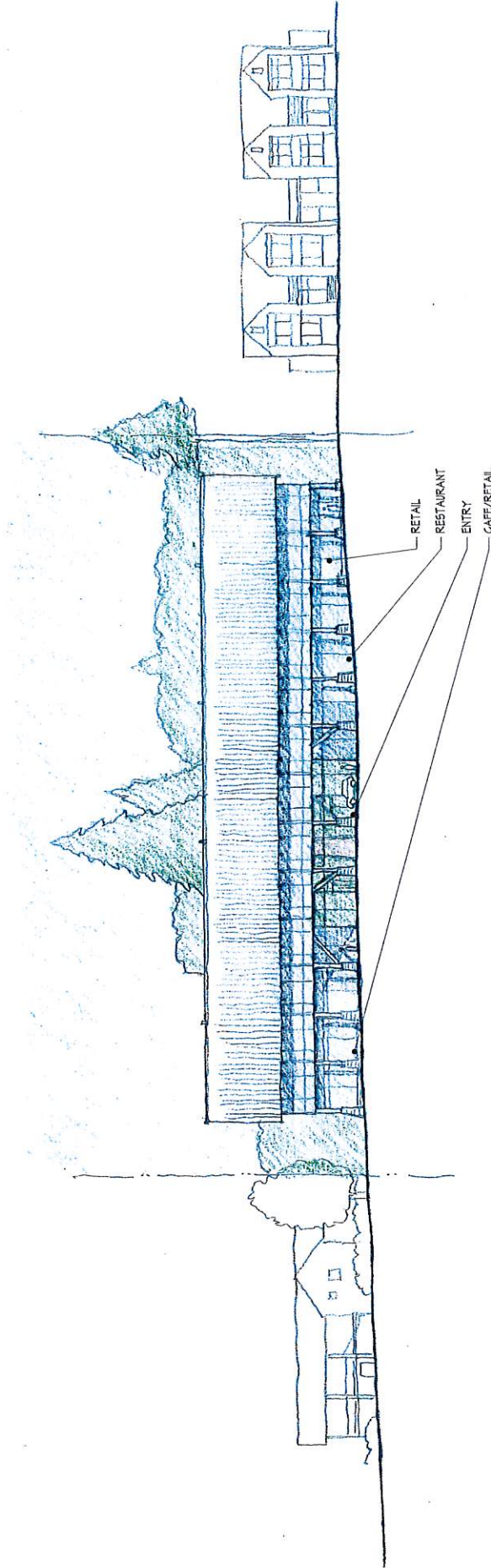


**SECTION LOOKING WEST**

WINSLOW WAY HOTEL  
CUTLER ANDERSON ARCHITECTS  
SEPTEMBER 5, 2017



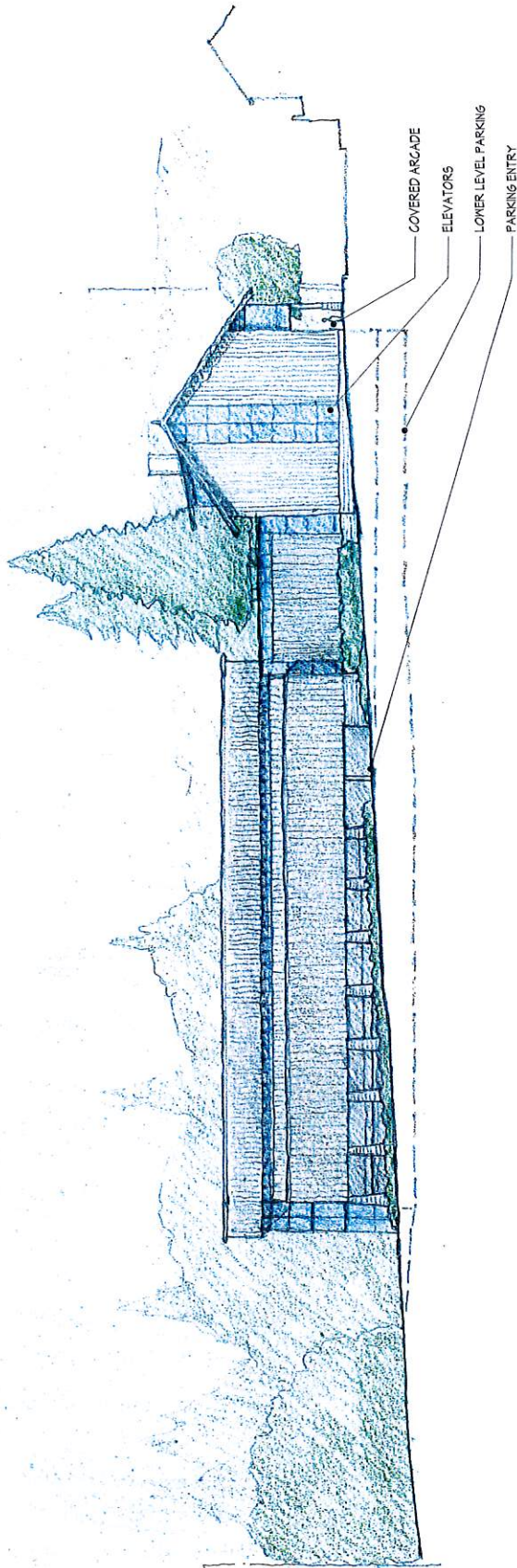




**WINSLOW WAY ELEVATION**

WINSLOW WAY HOTEL  
CUTLER ANDERSON ARCHITECTS  
SEPTEMBER 5, 2017

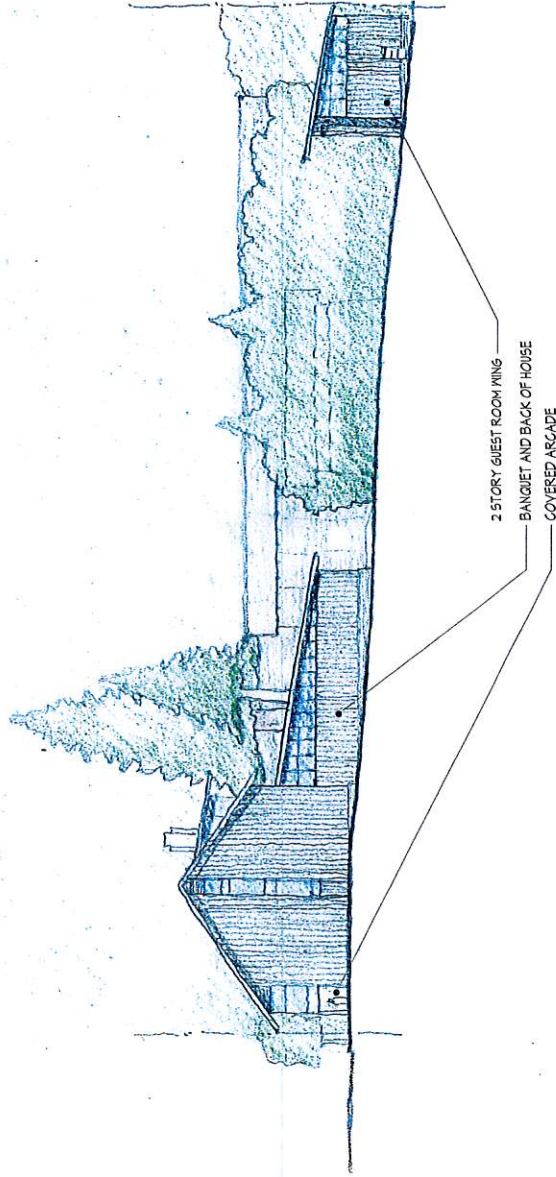




**EAST ELEVATION**  
WINSLOW WAY HOTEL  
CUTLER ANDERSON ARCHITECTS  
SEPTEMBER 5, 2017

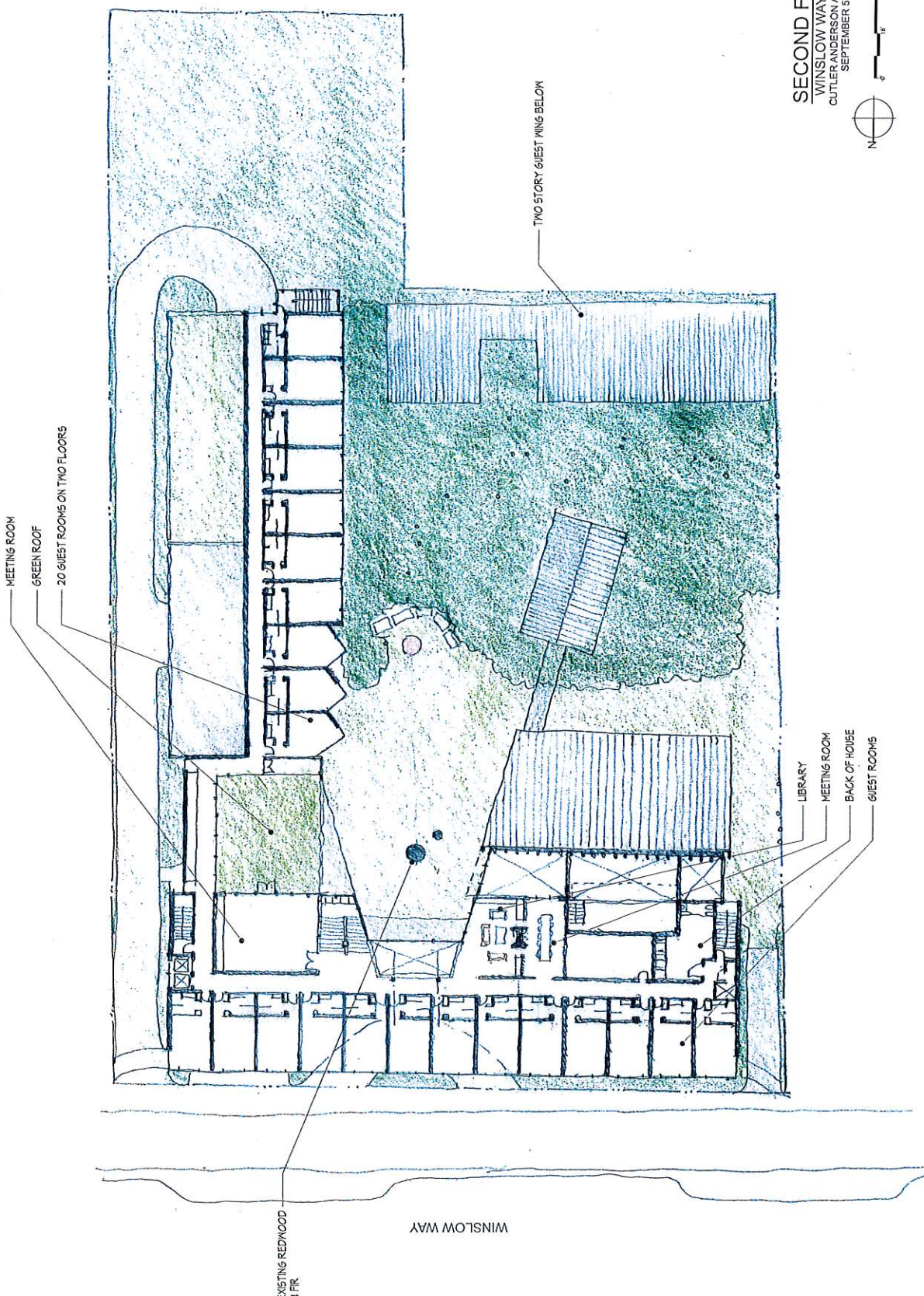






WEST ELEVATION  
WINSLOW WAY HOTEL  
CUTLER ANDERSON ARCHITECTS  
SEPTEMBER 5, 2017

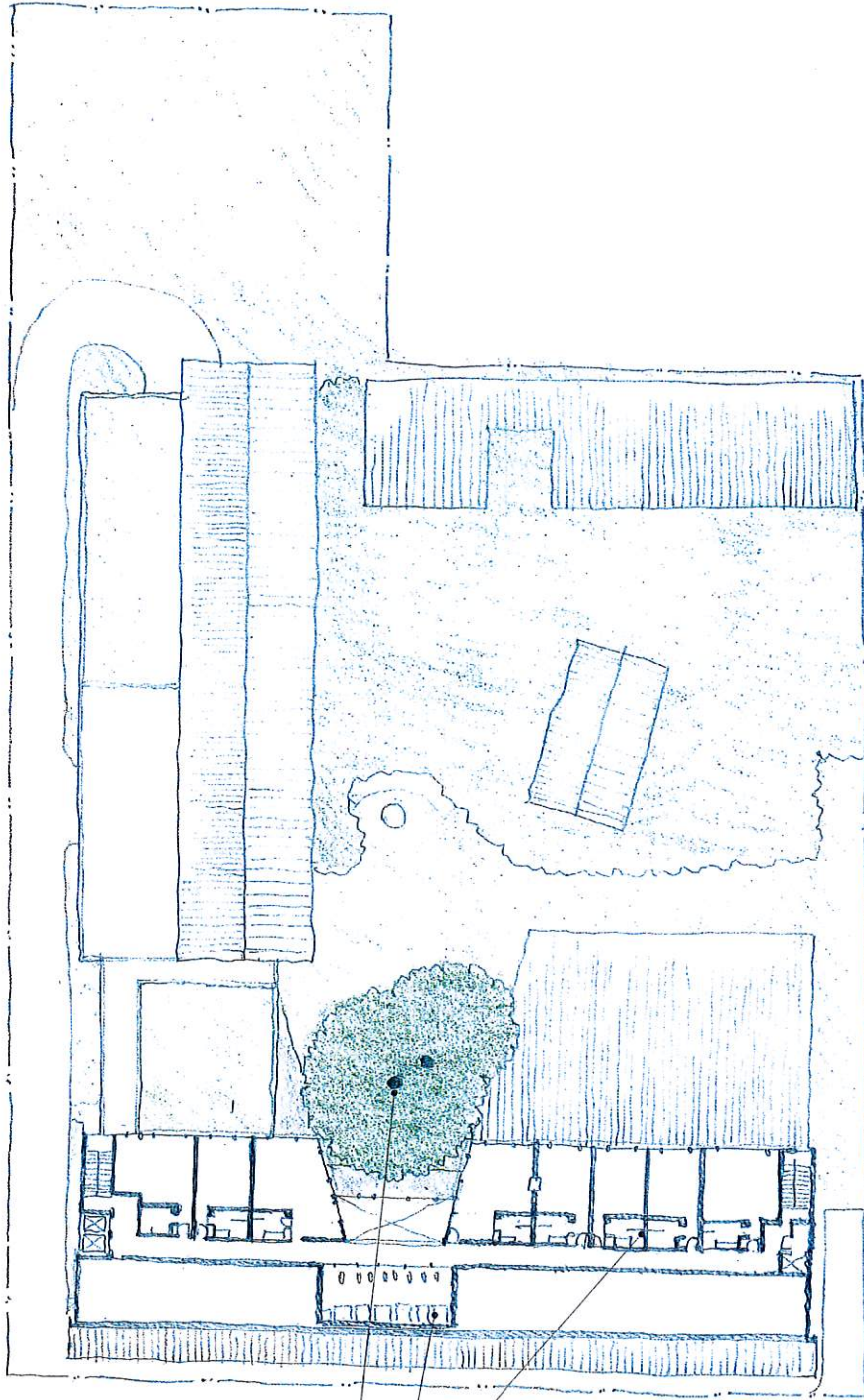




SECOND FLOOR  
WINSLOW WAY HOTEL  
CUTLER ANDERSON ARCHITECTS  
SEPTEMBER 5, 2017



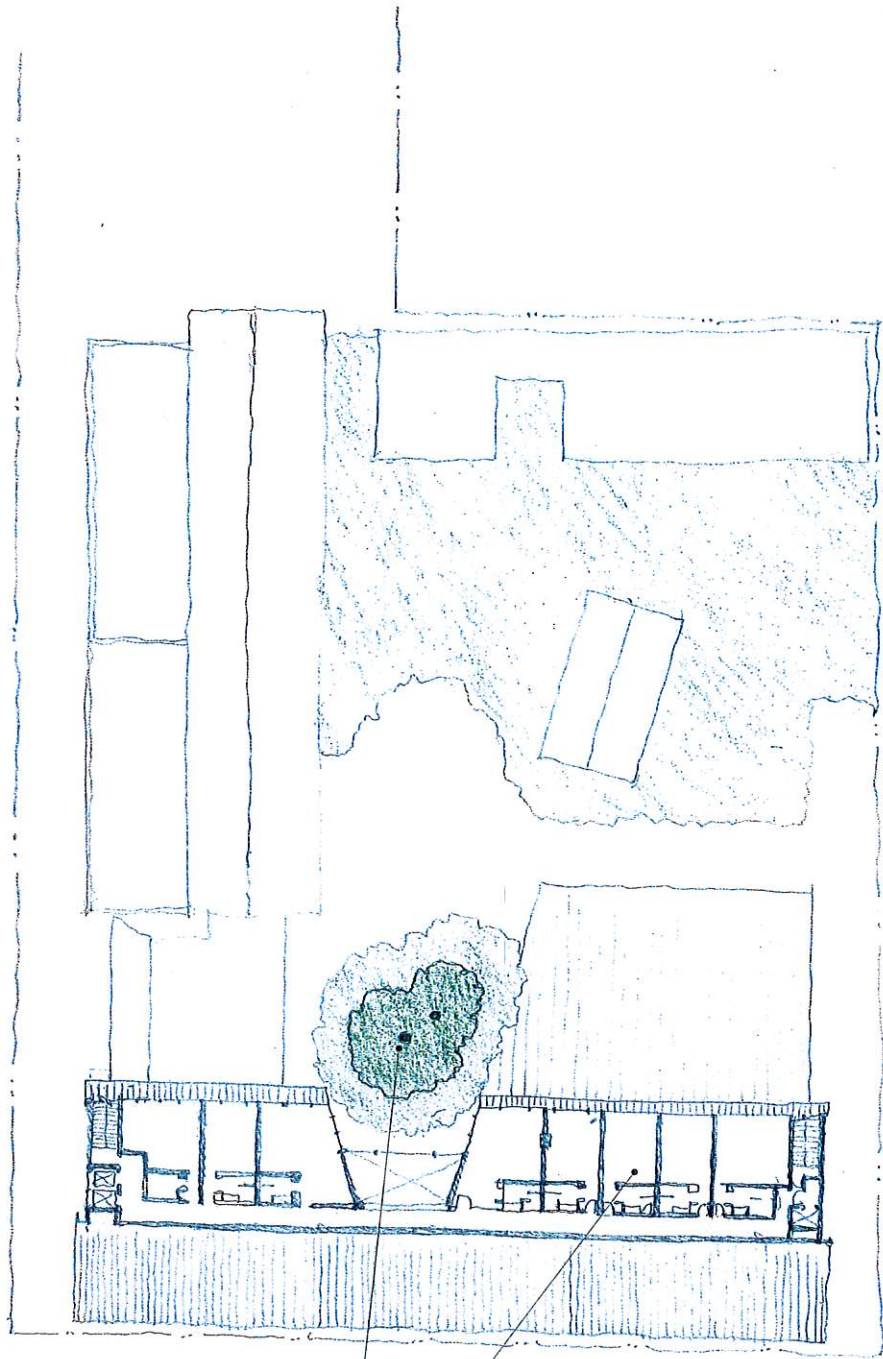




EXISTING REDWOOD  
FIR  
EXERCISE ROOM  
GUEST ROOMS

THIRD FLOOR  
WINSLOW WAY HOTEL  
CUTLER ANDERSON ARCHITECTS  
SEPTEMBER 5, 2017





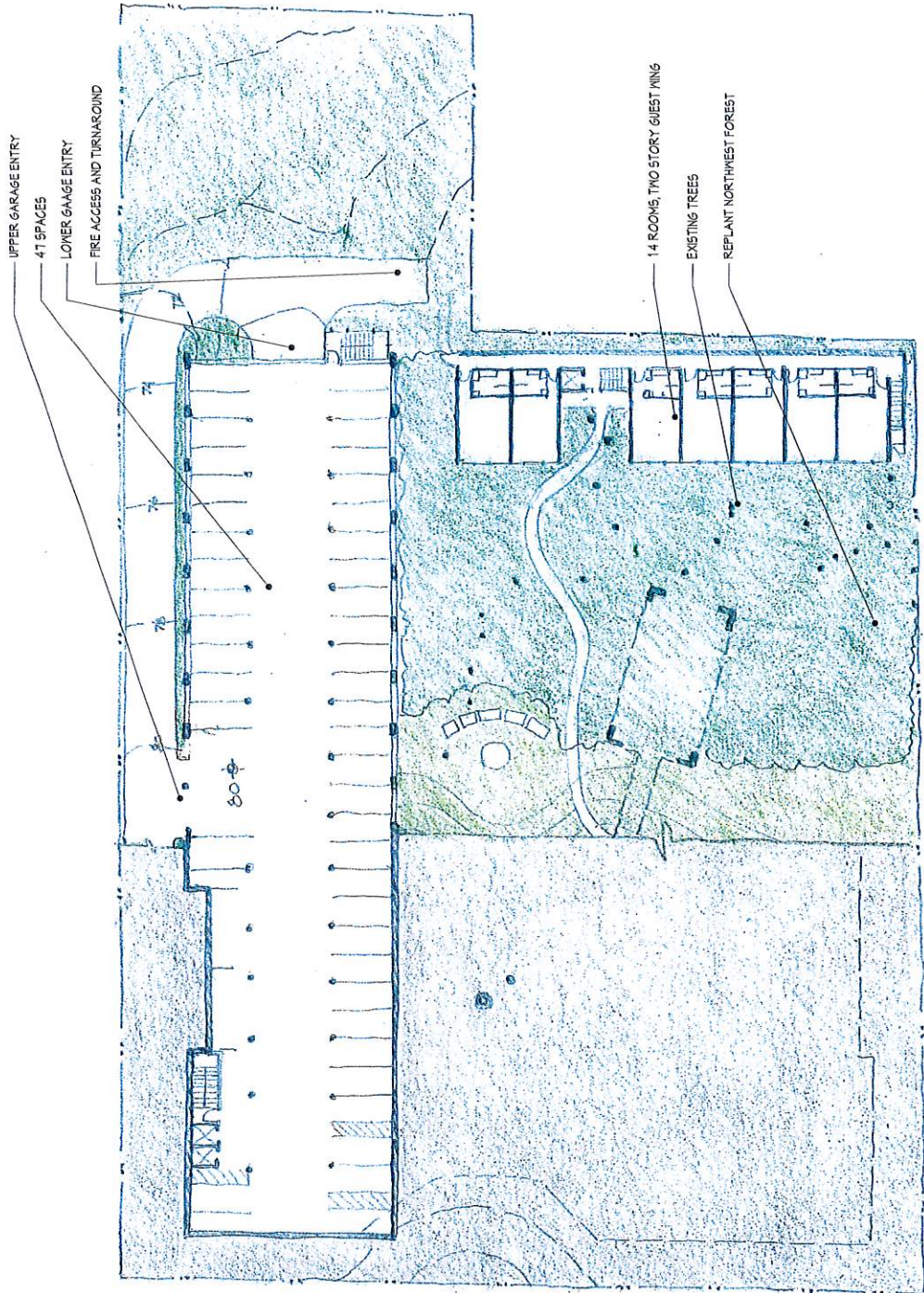
EXISTING REDWOOD  
LFR

GUEST ROOMS

FOURTH FLOOR  
WINSLOW WAY HOTEL  
CUTLER ANDERSON ARCHITECTS  
SEPTEMBER 5, 2017







UPPER GARAGE ENTRY

41 SPACES

LOWER GARAGE ENTRY

FIRE ACCESS AND TURNAROUND

14 ROOMS, TWO STORY GUEST WING

EXISTING TREES

REPLANT NORTHWEST FOREST



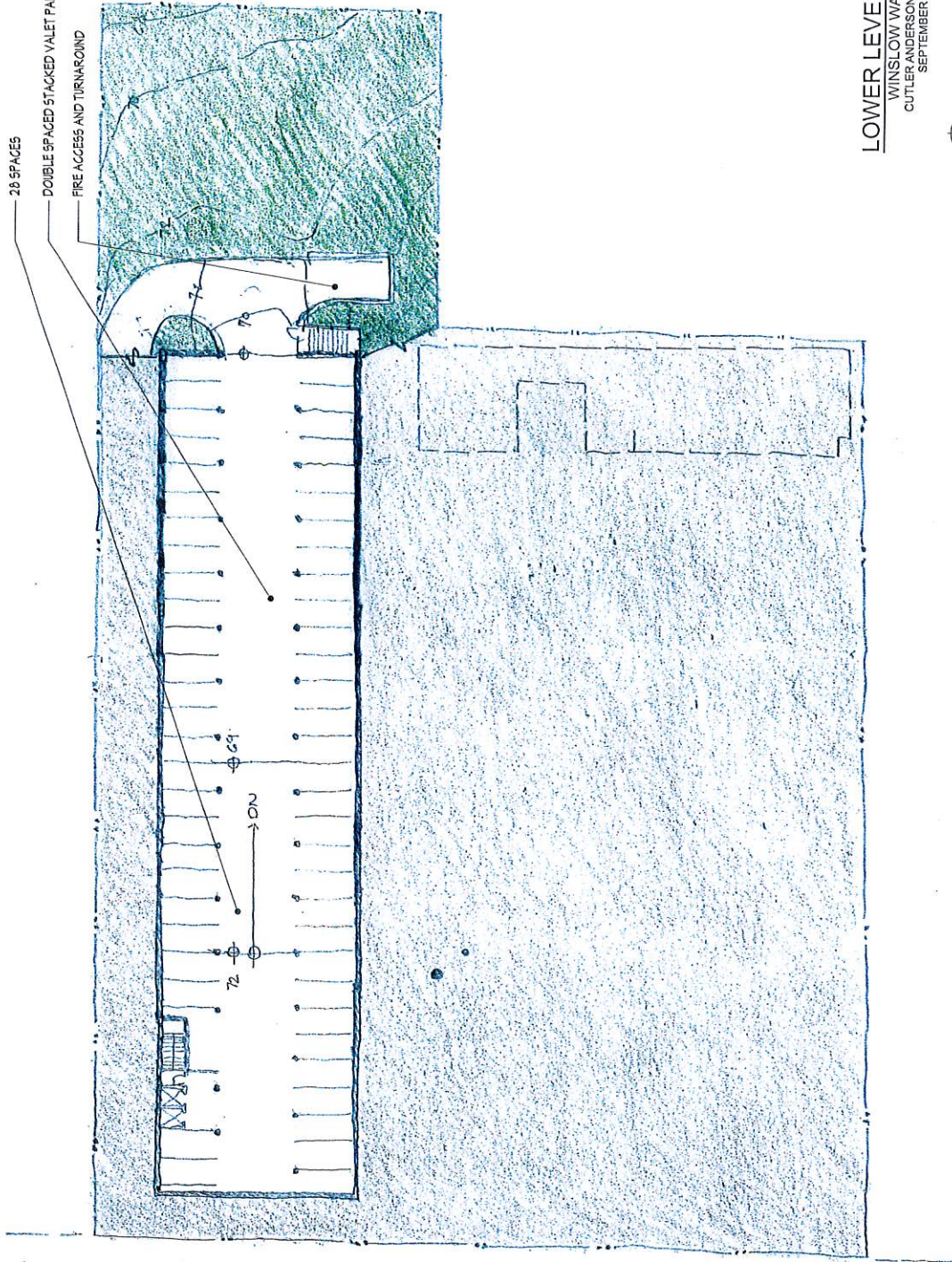
# UPPER LEVEL PARKING

WINSLOW WAY HOTEL  
CUTLER ANDERSON ARCHITECTS  
SEPTEMBER 5, 2017

WINSLOW WAY



28 SPACES  
 DOUBLE SPACED STACKED VALET PARKING (60 SPACES)  
 FIRE ACCESS AND TURNAROUND



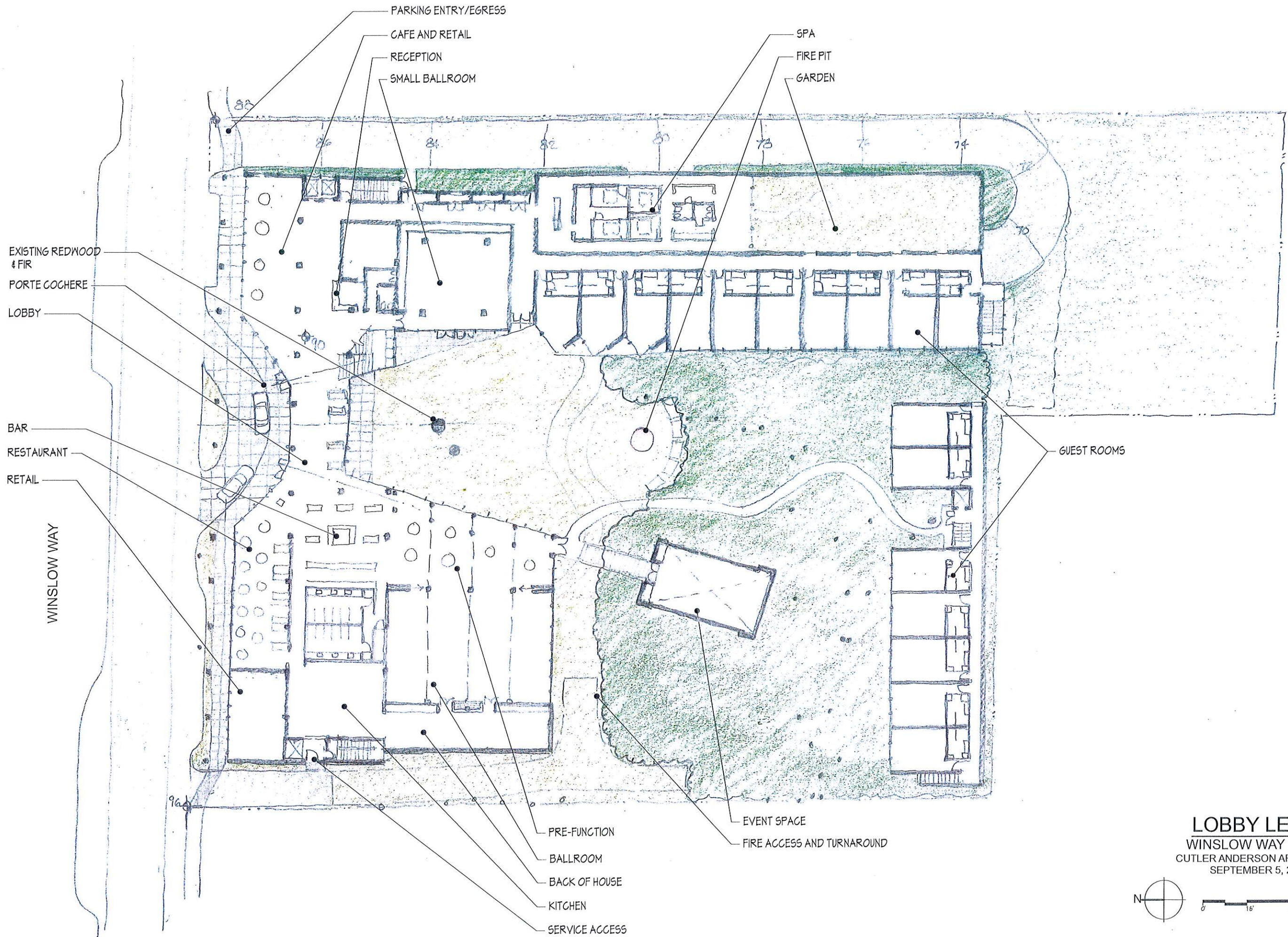
WINSLOW WAY

# LOWER LEVEL PARKING

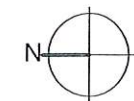
WINSLOW WAY HOTEL  
 CUTLER ANDERSON ARCHITECTS  
 SEPTEMBER 5, 2017





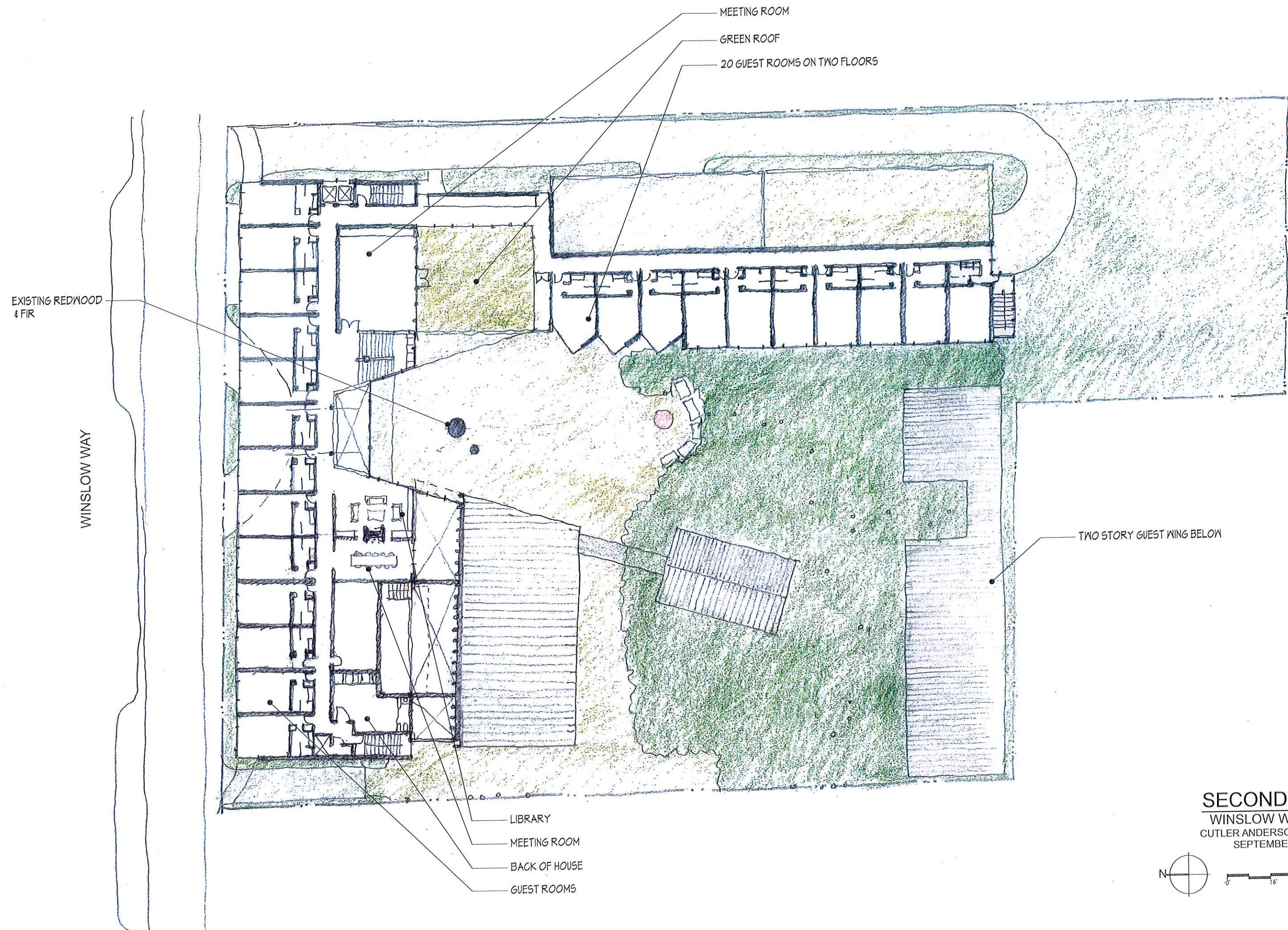


**LOBBY LEVEL**  
WINSLOW WAY HOTEL  
CUTLER ANDERSON ARCHITECTS  
SEPTEMBER 5, 2017



0' 16' 32' 64'



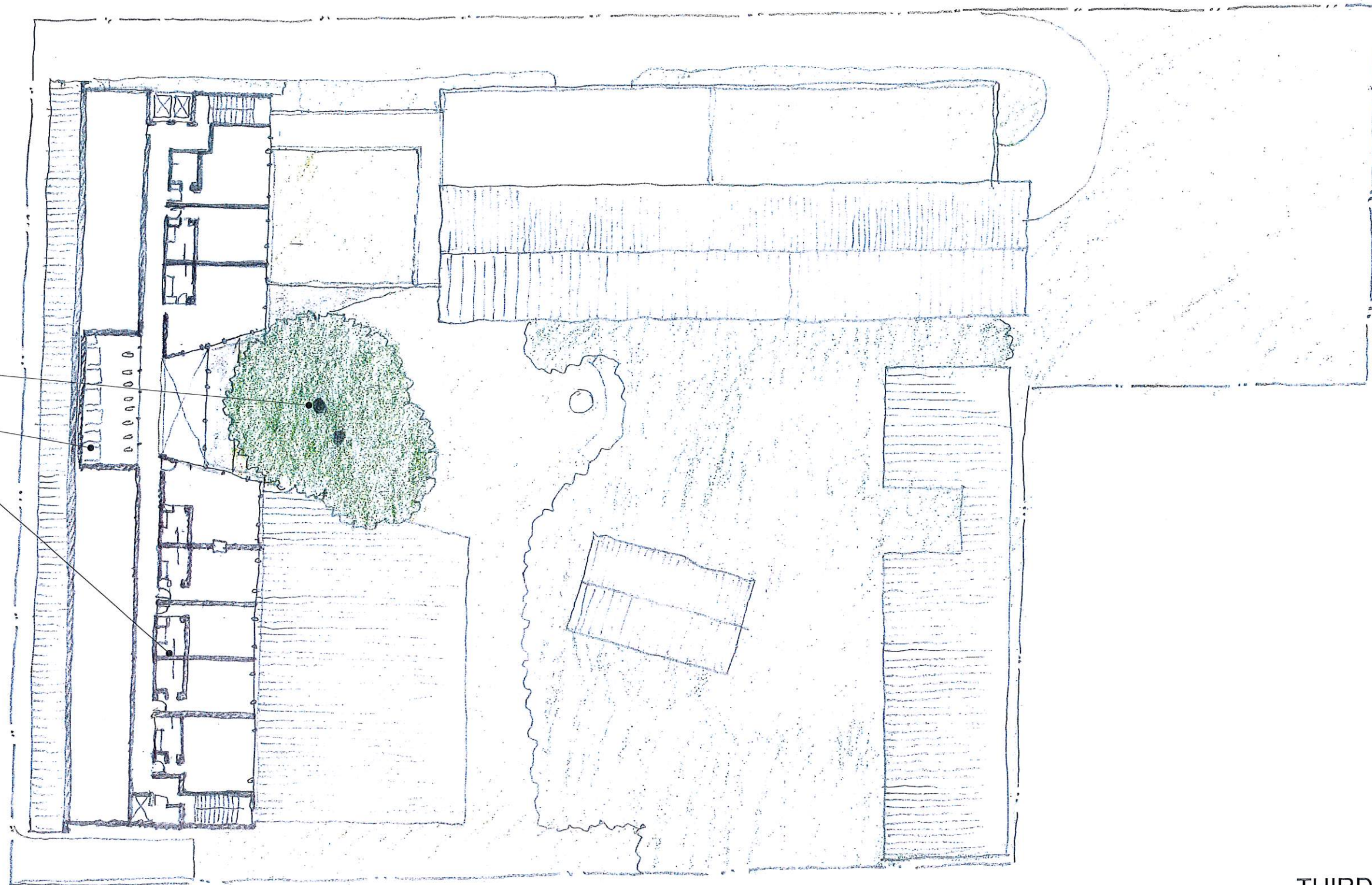


**SECOND FLOOR**  
WINSLOW WAY HOTEL  
CUTLER ANDERSON ARCHITECTS  
SEPTEMBER 5, 2017





EXISTING REDWOOD  
& FIR  
EXERCISE ROOM  
GUEST ROOMS



**THIRD FLOOR**  
WINSLOW WAY HOTEL  
CUTLER ANDERSON ARCHITECTS  
SEPTEMBER 5, 2017

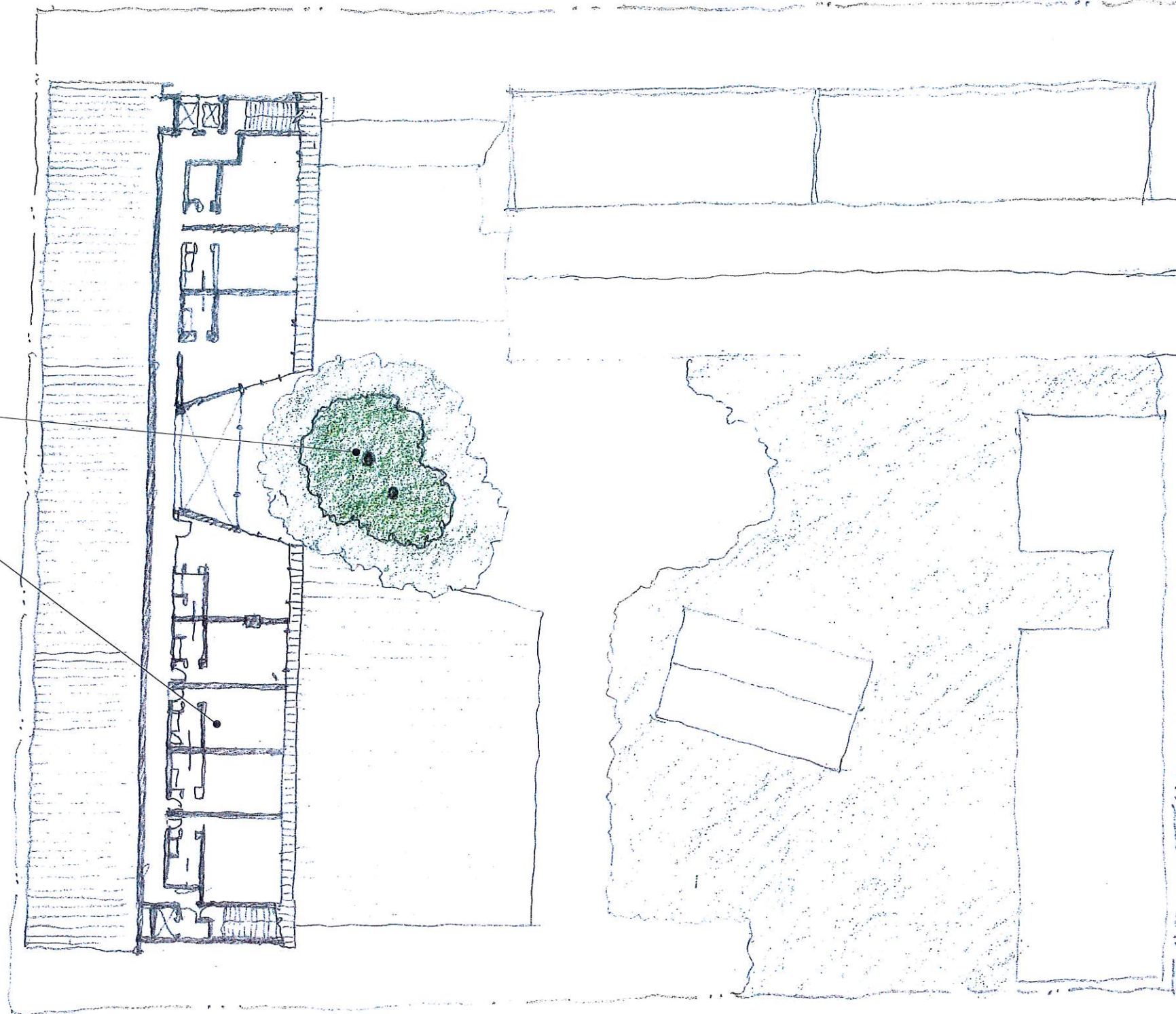


0' 16' 32' 64'



EXISTING REDWOOD  
& FIR

GUEST ROOMS

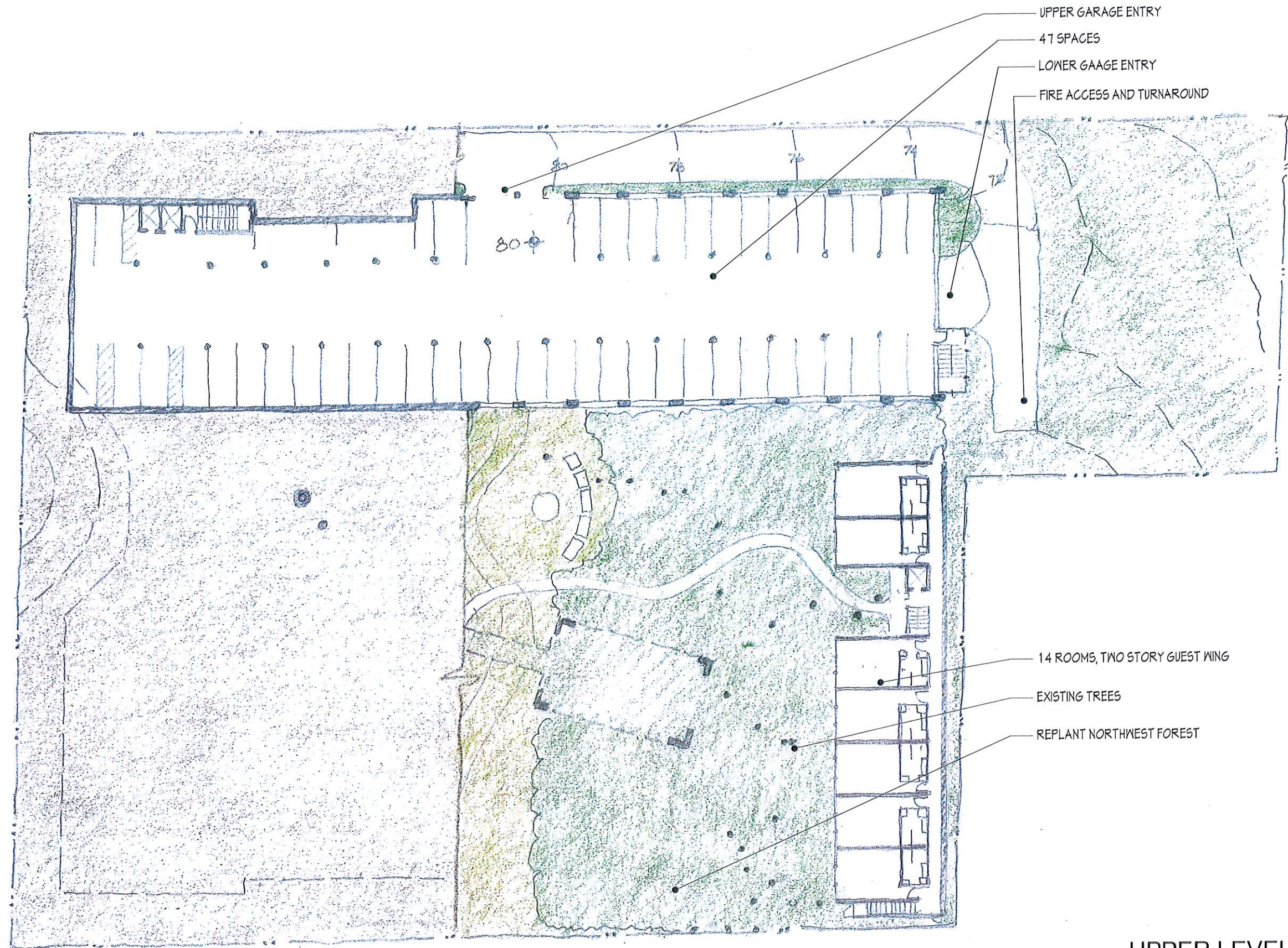


**FOURTH FLOOR**  
WINSLOW WAY HOTEL  
CUTLER ANDERSON ARCHITECTS  
SEPTEMBER 5, 2017





WINSLOW WAY



UPPER GARAGE ENTRY

47 SPACES

LOWER GAAGE ENTRY

FIRE ACCESS AND TURNAROUND

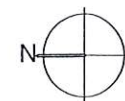
14 ROOMS, TWO STORY GUEST WING

EXISTING TREES

REPLANT NORTHWEST FOREST

## UPPER LEVEL PARKING

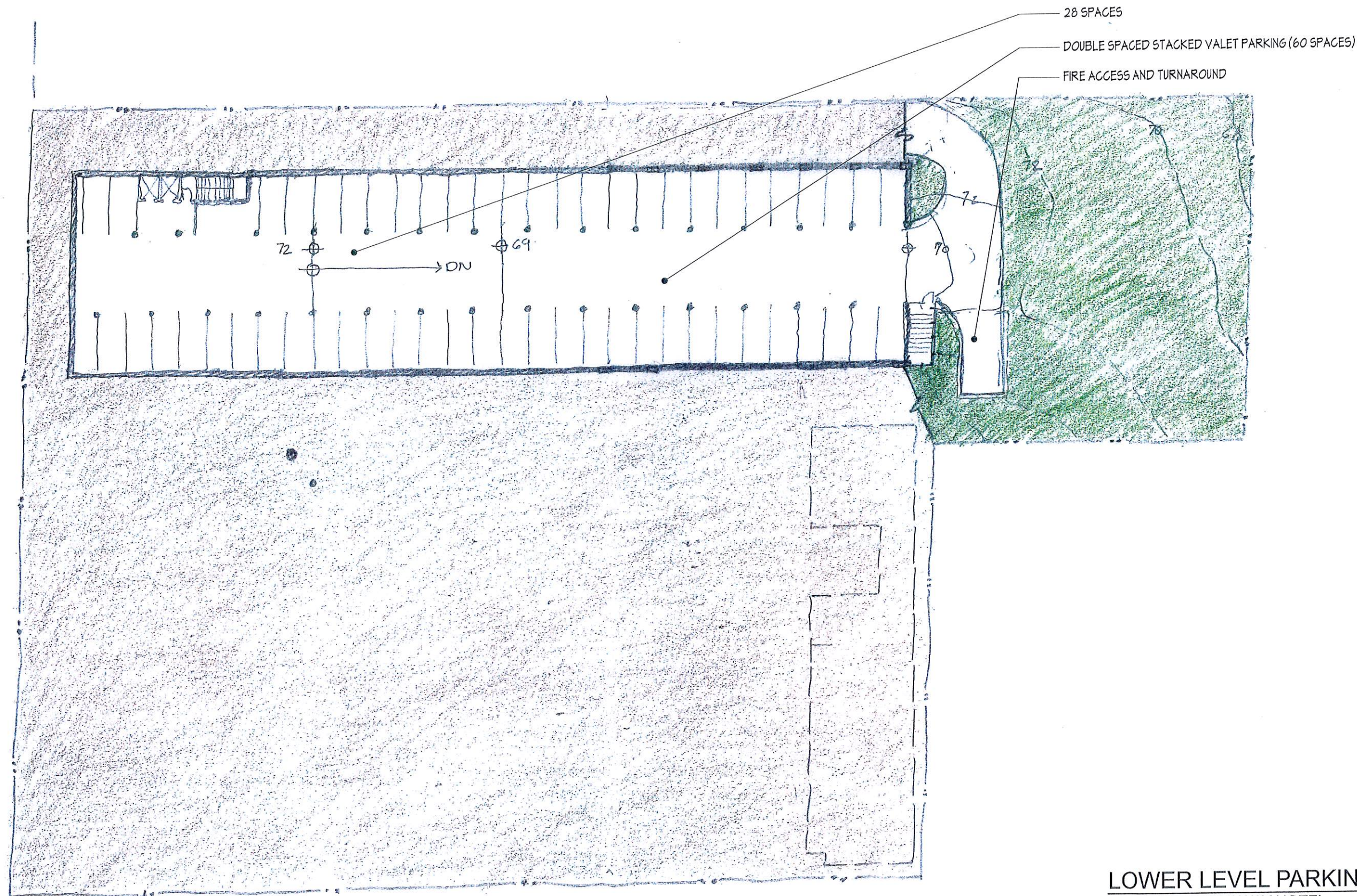
WINSLOW WAY HOTEL  
CUTLER ANDERSON ARCHITECTS  
SEPTEMBER 5, 2017



0 16' 32' 64'



WINSLOW WAY

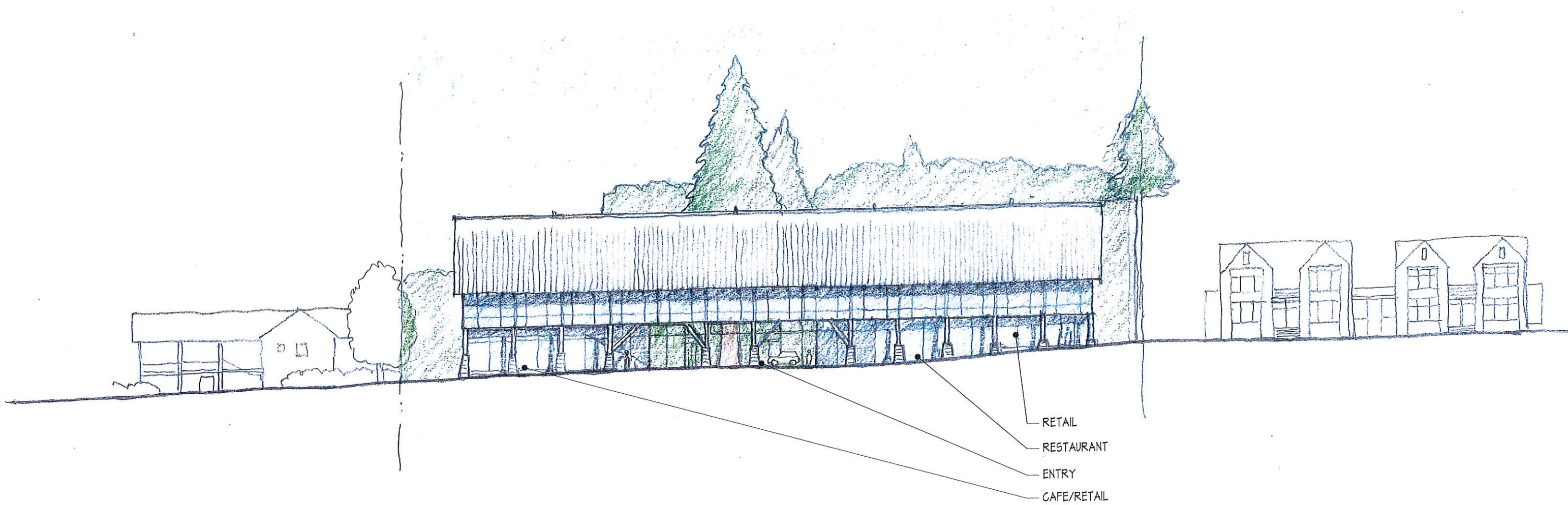


## LOWER LEVEL PARKING

WINSLOW WAY HOTEL  
CUTLER ANDERSON ARCHITECTS  
SEPTEMBER 5, 2017



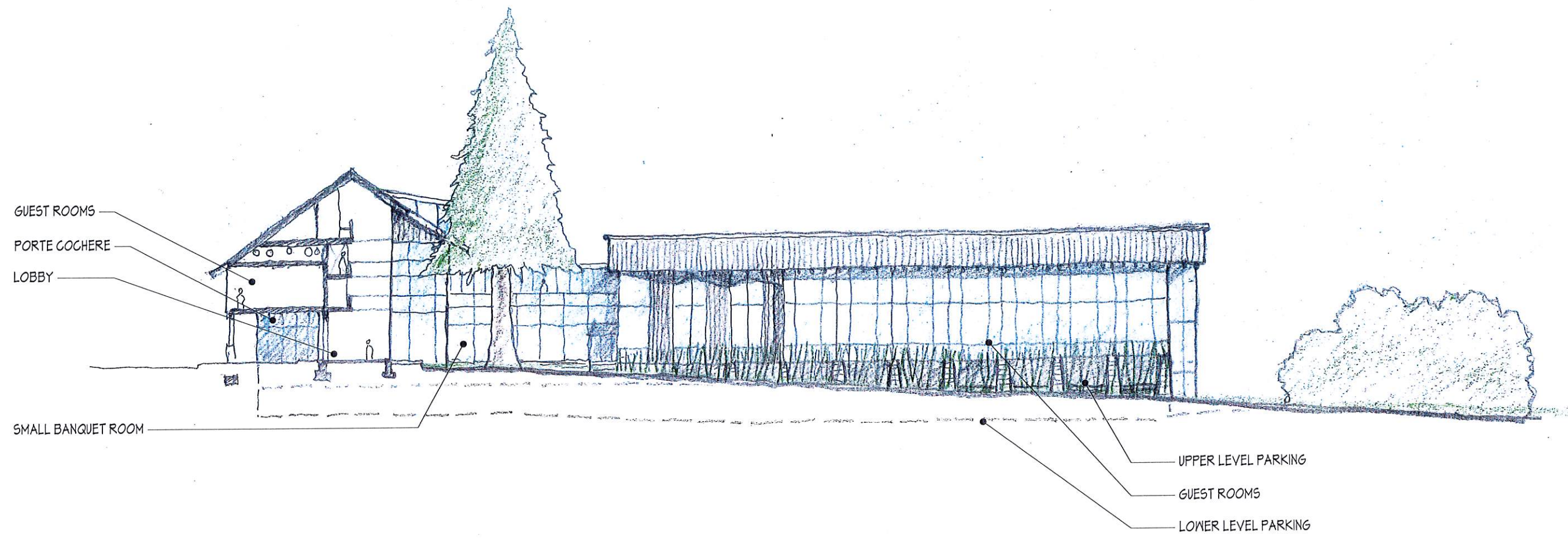




## WINSLOW WAY ELEVATION

WINSLOW WAY HOTEL  
CUTLER ANDERSON ARCHITECTS  
SEPTEMBER 5, 2017



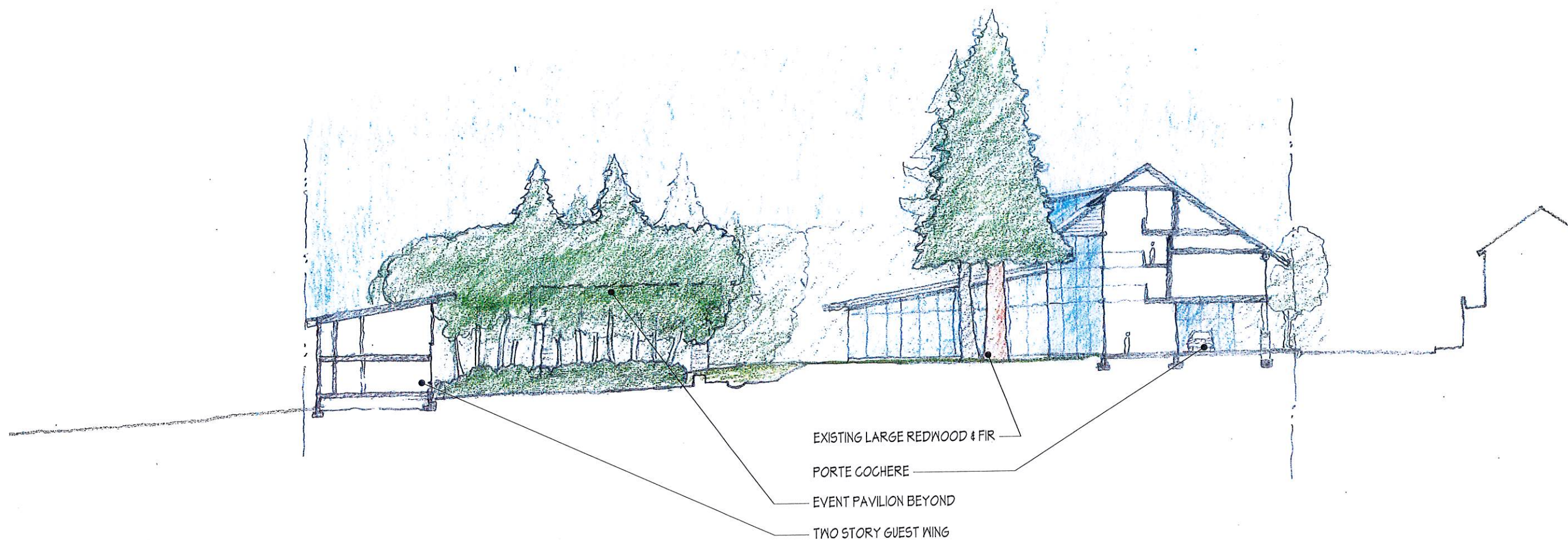


# SECTION LOOKING EAST

WINSLOW WAY HOTEL  
 CUTLER ANDERSON ARCHITECTS  
 SEPTEMBER 5, 2017



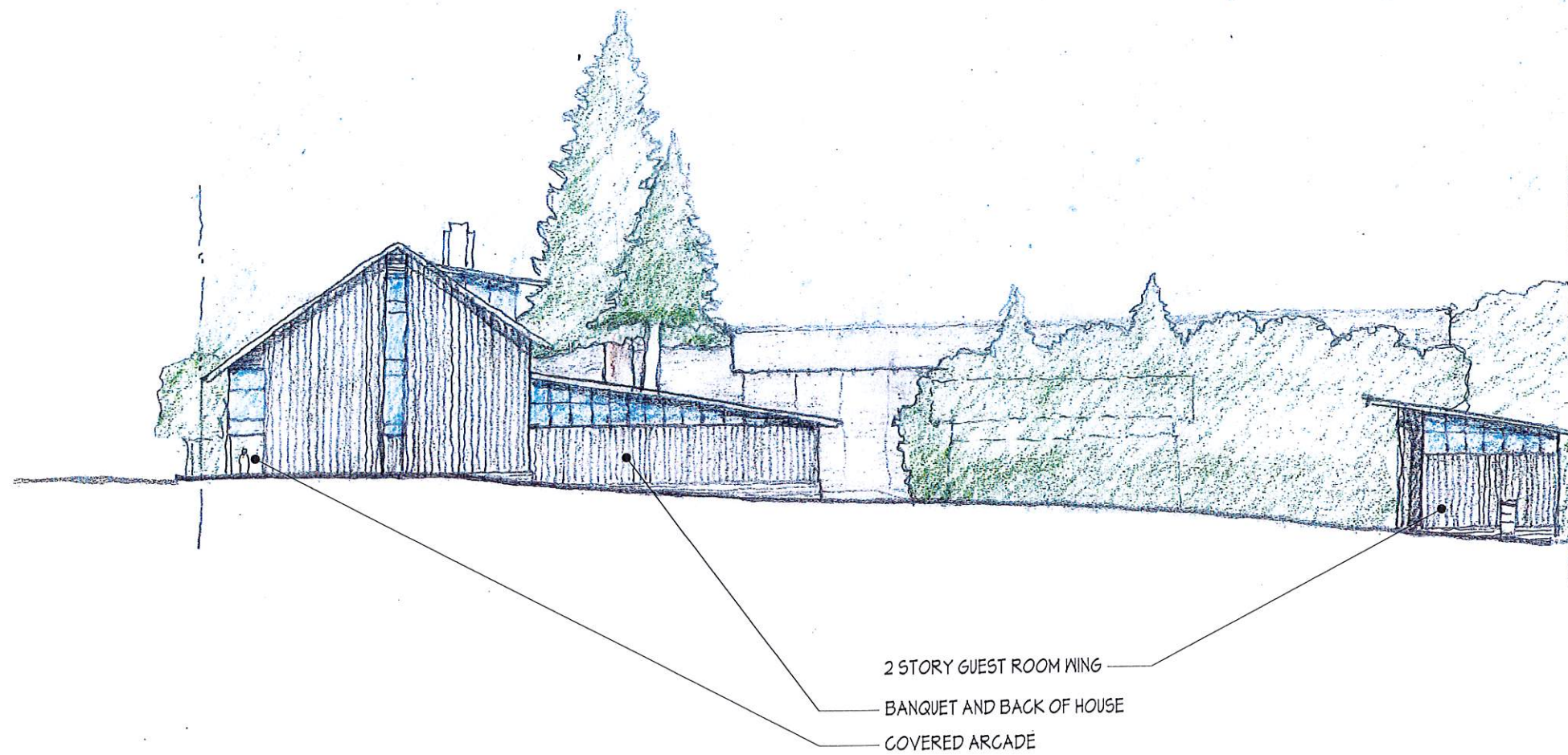




## SECTION LOOKING WEST

WINSLOW WAY HOTEL  
CUTLER ANDERSON ARCHITECTS  
SEPTEMBER 5, 2017

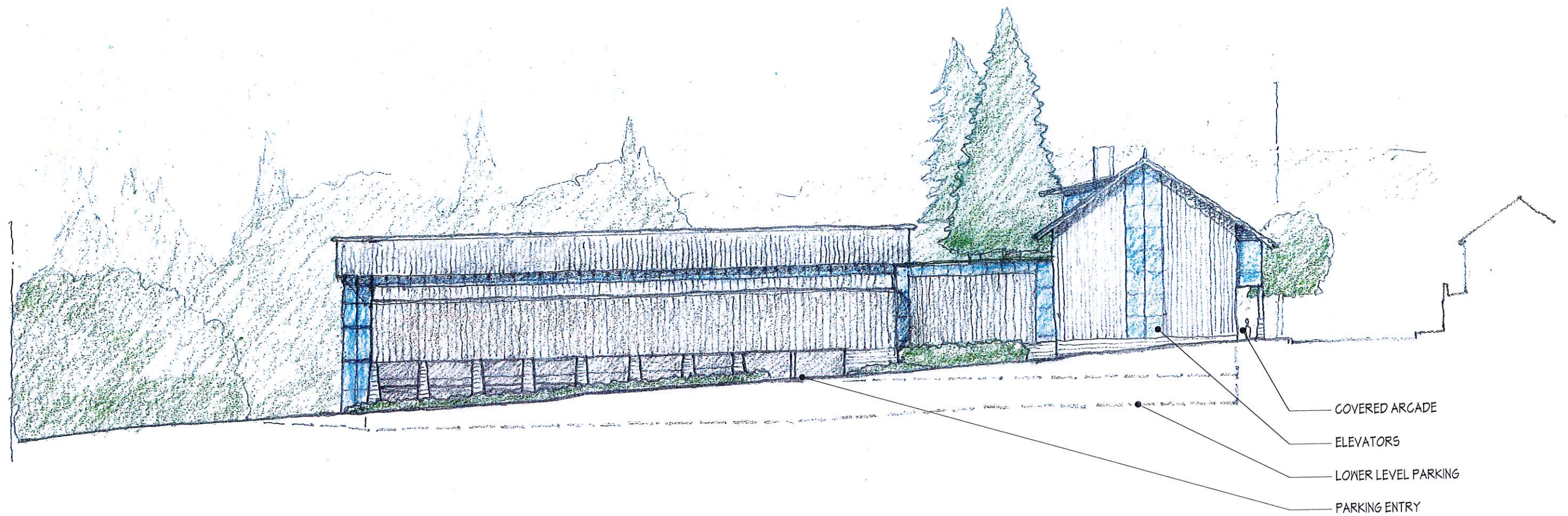
0 16' 32' 64'



**WEST ELEVATION**  
WINSLOW WAY HOTEL  
CUTLER ANDERSON ARCHITECTS  
SEPTEMBER 5, 2017







**EAST ELEVATION**  
 WINSLOW WAY HOTEL  
 CUTLER ANDERSON ARCHITECTS  
 SEPTEMBER 5, 2017

