



revised July 21, 2016



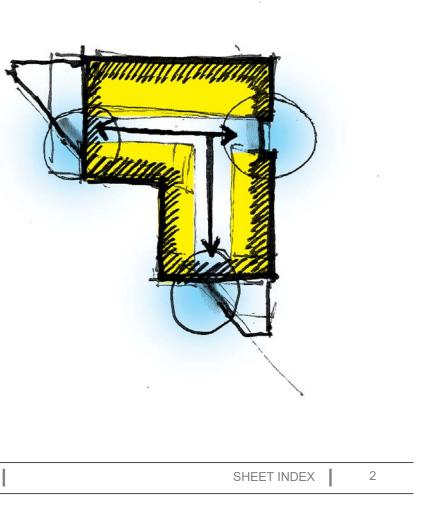
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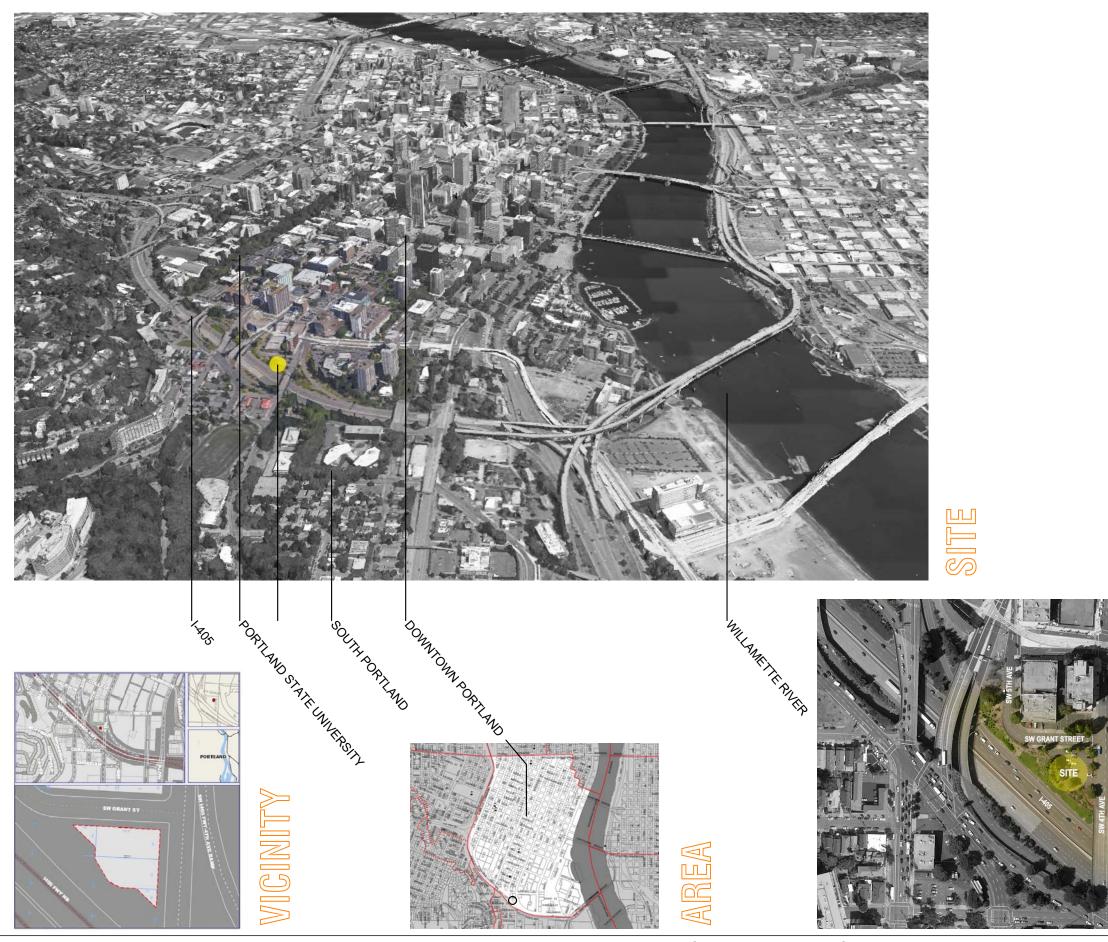
VEST AND BRICK DETAIL AT

ECTIVE ELEVATION PECTIVE ELEVATION ANSITION ALCONY (TYP.) H FACADE CAP ANSITION



Sheet
Number

A29	APPRO
A30	APPRO
R0	REVISI
R0.1	TABLE
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R2	SECO
R3	THIRD
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R6	SW GF
R7	WEST
R8	WEST
R9	SOUTH
R10	SOUTH
R11	SW GF
R12	SW 4T
R13	DOOR
R14	WEST
R15	CORN
R16	CORN
R22	VIEW F

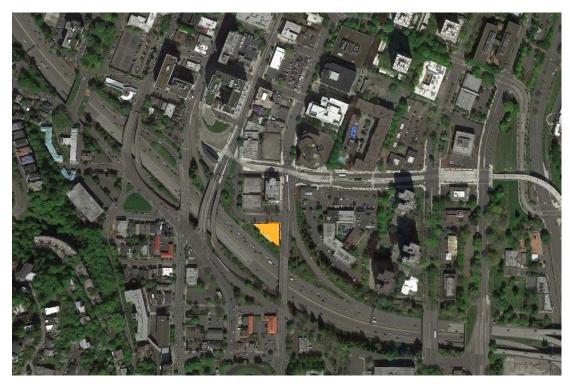


Kōz Development

2211 SW 4th Avenue, Portland Oregon 7/21/2016

Design Review Presentation LU 16-129367 DZ

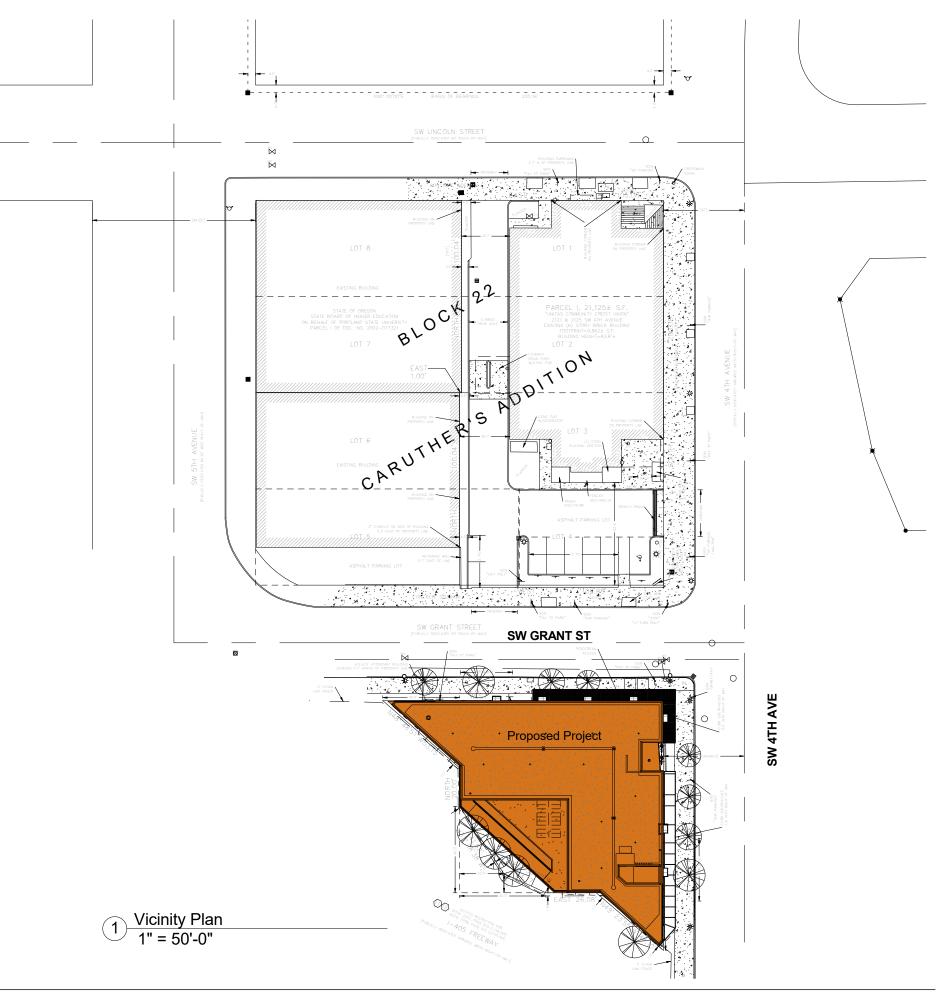


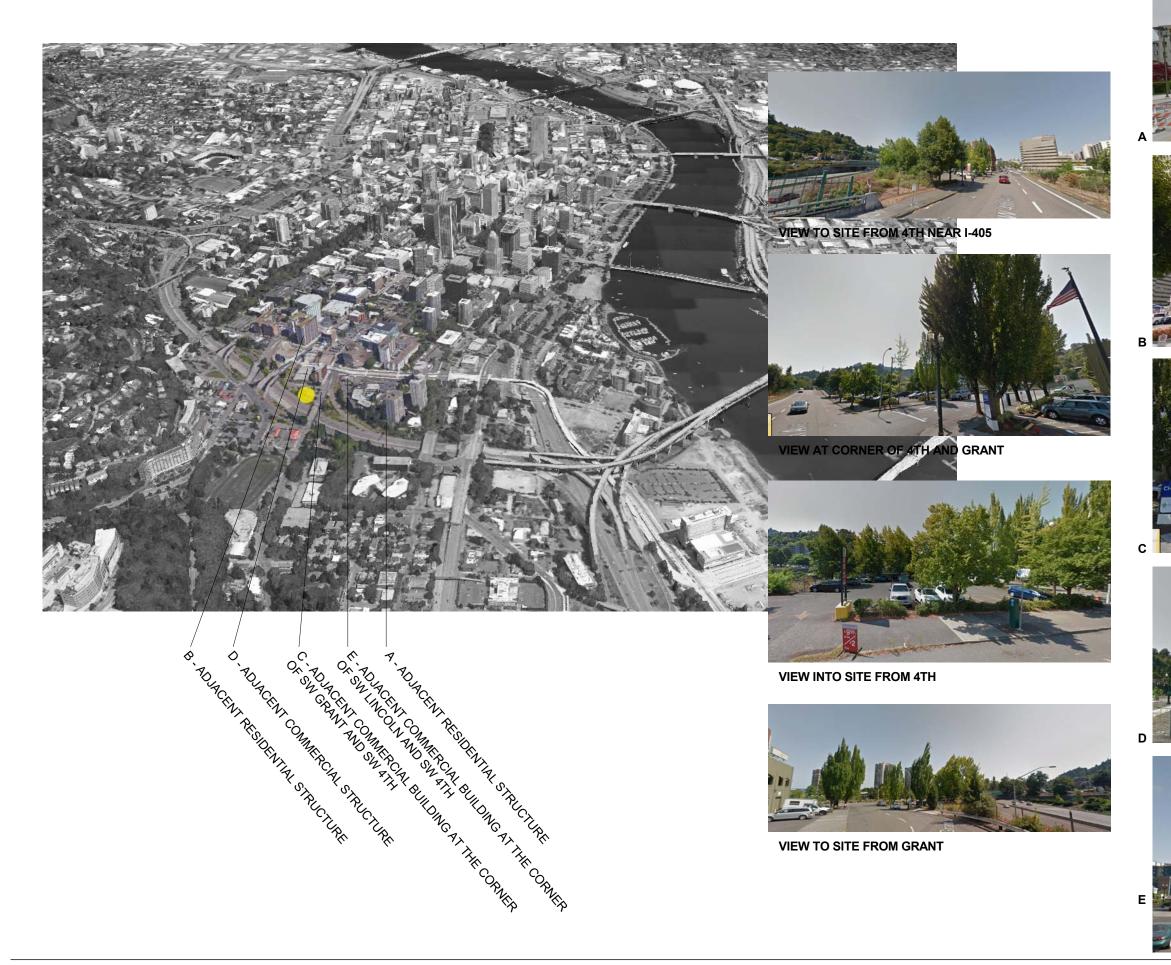


VICINITY MAP



PSU CAMPUS MAP AND AREA











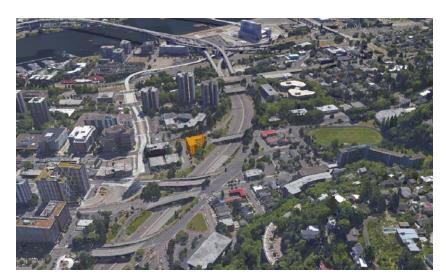




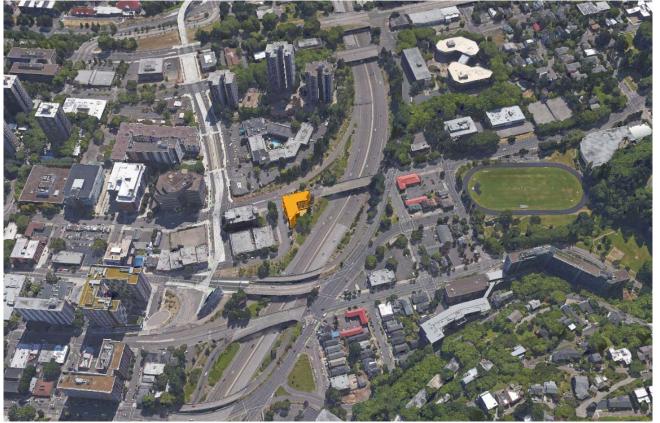
VICINITY AND NEIGHBORHOOD PHOTOS

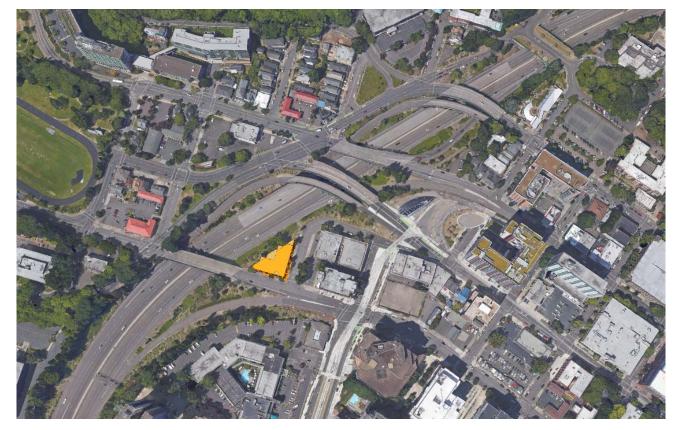


BIRDS EYE VIEW FROM THE SOUTHWEST



BIRDS EYE VIEW FROM THE WEST







BIRDS EYE VIEW FROM THE EAST



BIRDS EYE VIEW FROM THE NORTHWEST



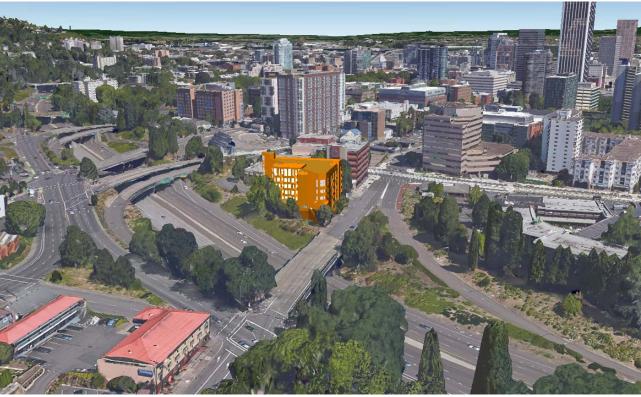
VIEW FROM NORTHEAST



VIEW FROM SOUTHWEST

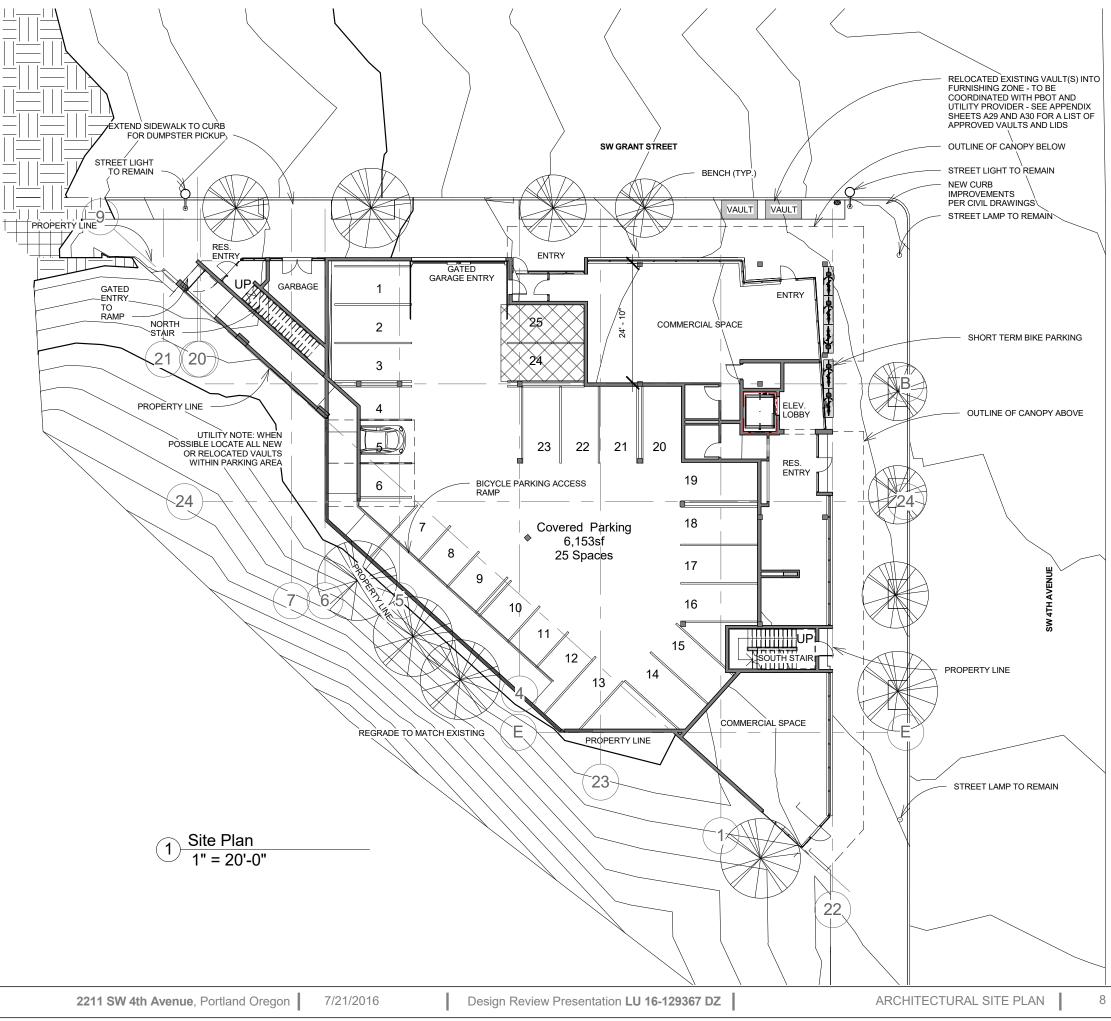


VIEW FROM NORTHWEST



VIEW FROM SOUTH

7





EXAMPLE OF PROPOSED CANOPY STRUCTURE

PREVIOUS CONCEPT PLAN PRE-APPLICATION [EA 15-114048] DESIGN ADVICE REQUEST [15-153663]

Comments:

1.) Provide canopies and weather protection at "entrances, oriels, ext.".

2.) No exterior lighting is shown in drawing set - integrate exterior lighting.

Summary of changes: 1.) Canopies have been provided along SW 4th Avenue and SW Grant Street.

2.) Exterior lighting has been added to the plans and integrated into the building design.



E3 RECESSED DIRECTIONAL WALL WASH



E4 PHILIPS SURFACE MOUNT DOWNLIGHT

TITE

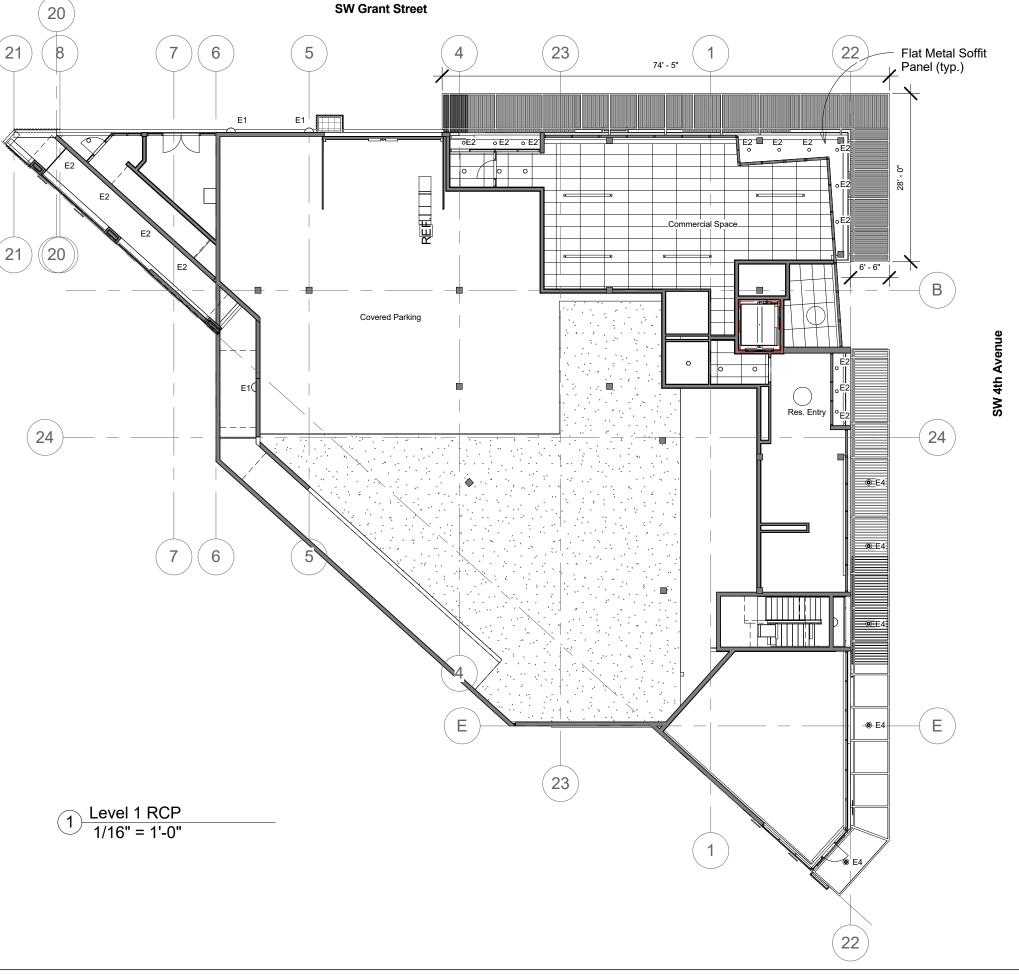
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E2 RECESSED LIGHT



E1 COOPER INDUSTRIES McGRAW-EDISON ISC IMPACT ELITE CYLINDER LED WALL MOUNT





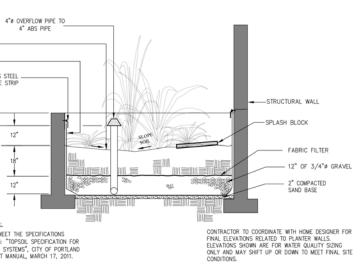
2"

12"

12"



STORMWATER PLANTER DETAIL





RED ASH STREET TREE 6'-8' B&B



VIRGINIA CREEPER IVY PLANT ALONG TOP OF WALL



HEAVENLY BAMBOO PLANT 1GAL POT

JAPANESE FOREST GRASS 1GAL POT / 16" O/C



10



EXAMPLE OF RED CINDER AND SEDUM GREEN ROOF



EXAMPLE OF RED CINDER AND SEDUM GREEN ROOF

ROOF LEVEL DESIGN STRATEGY BES Red Cinder Ecoroof Design is a self-sustaining, low maintenance, utilitarian roof system. The benifits of which are: Stormwater Management: Retention of a portion of the rainfall captured and reduction of flow coming from the roof area to the storm sewer. Increased insulation, protection of the roof covering, reduction of the heat island effect and added animal habitat. No irrigation or fertilization is required. The majority of the roof in the project is proposed to be a "green roof".

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У	Mat thickness	weight	depth	weight	Cinder	weight	weight	depth	weight	RETENTION. RATIO OF SOLUMULCH IS VARIABLE WITH STRUCTURAL CAPACITY.
p e	thickness	psf		pst	mulch depth	psf	psf	medium & mulch	psf	PROTECTION/MOISTURE MAT (OPTIONAL) GUARDS
Δ	1/."	1	3″	18	1" to	5.75	2.25	4 ½"	27.0	WATERPROOF MEMBRANE AND CAN PROVIDE MONSTURE LAYER.
	74		5	10	1 ½"	5.75	2.25	7 /2	27.0	COFING SYSTEMS MAY VARY. SEE ARCH. SPECS.
					1/2					

Level 7

1/16" = 1'-0"

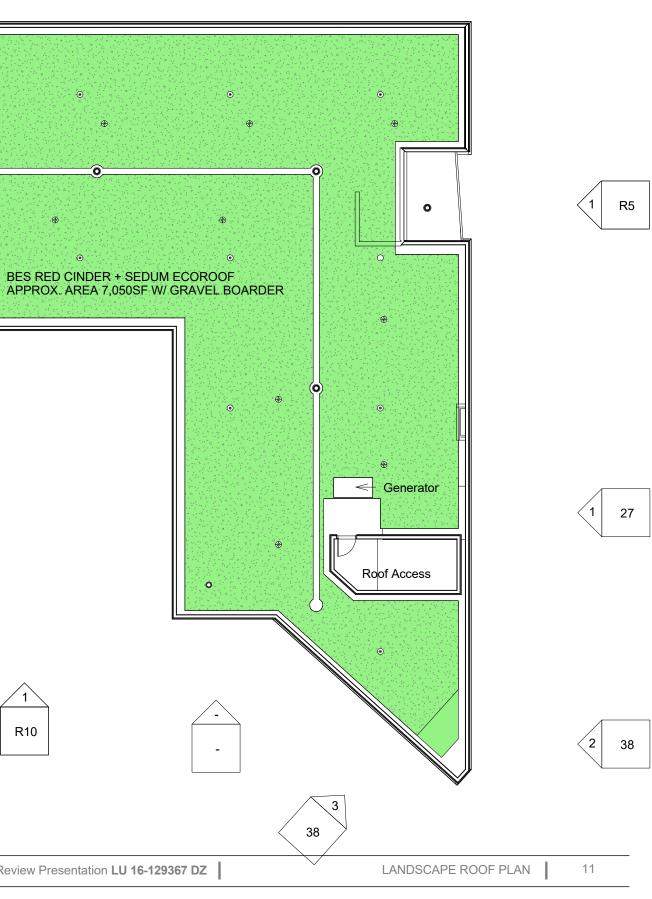
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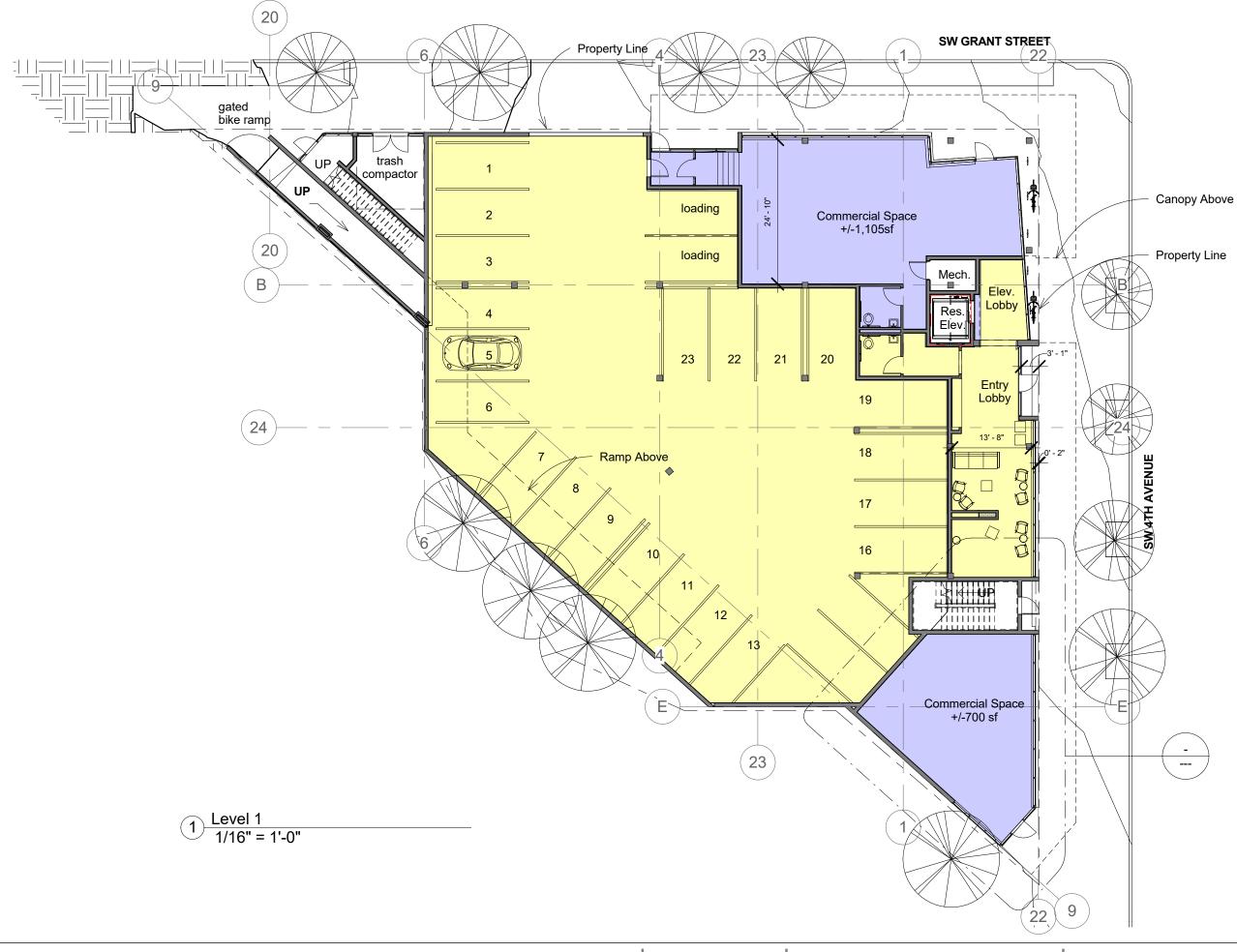
R8

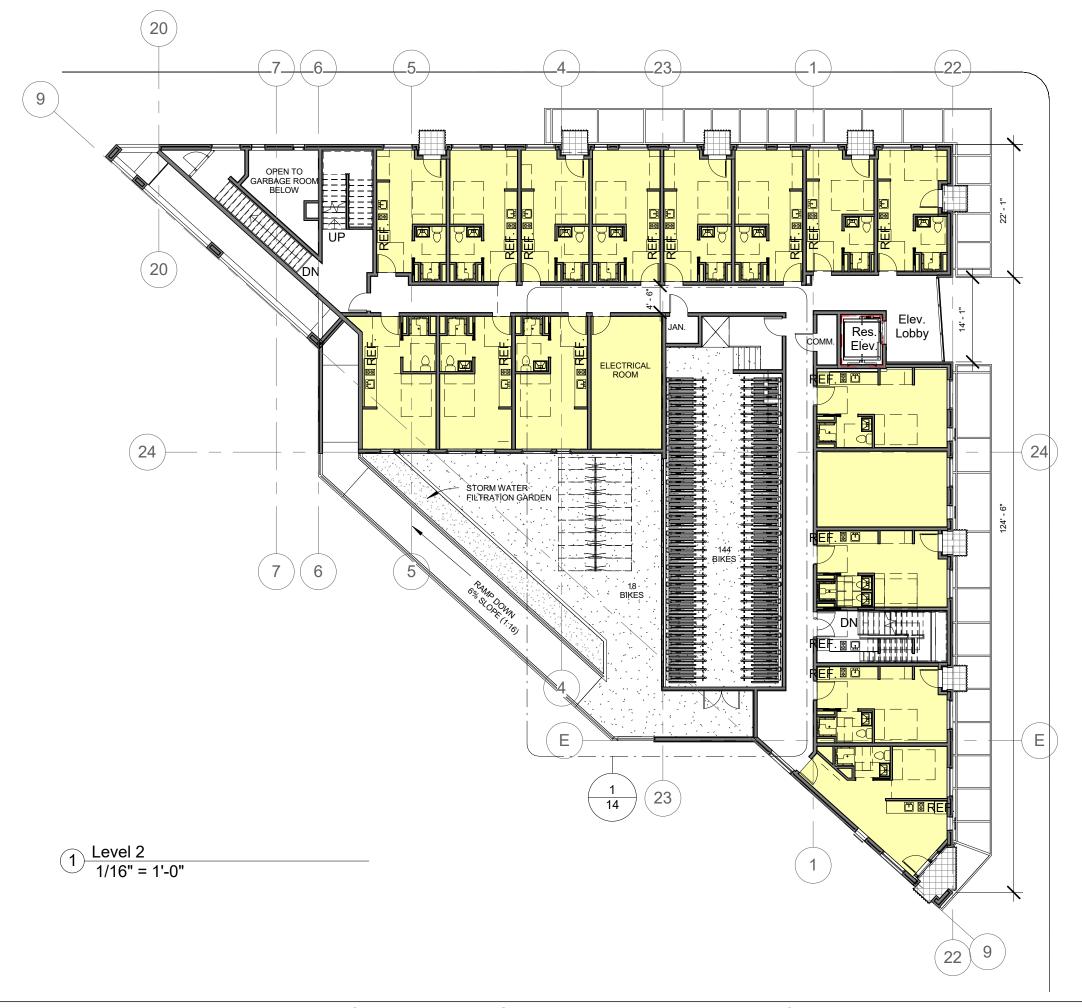
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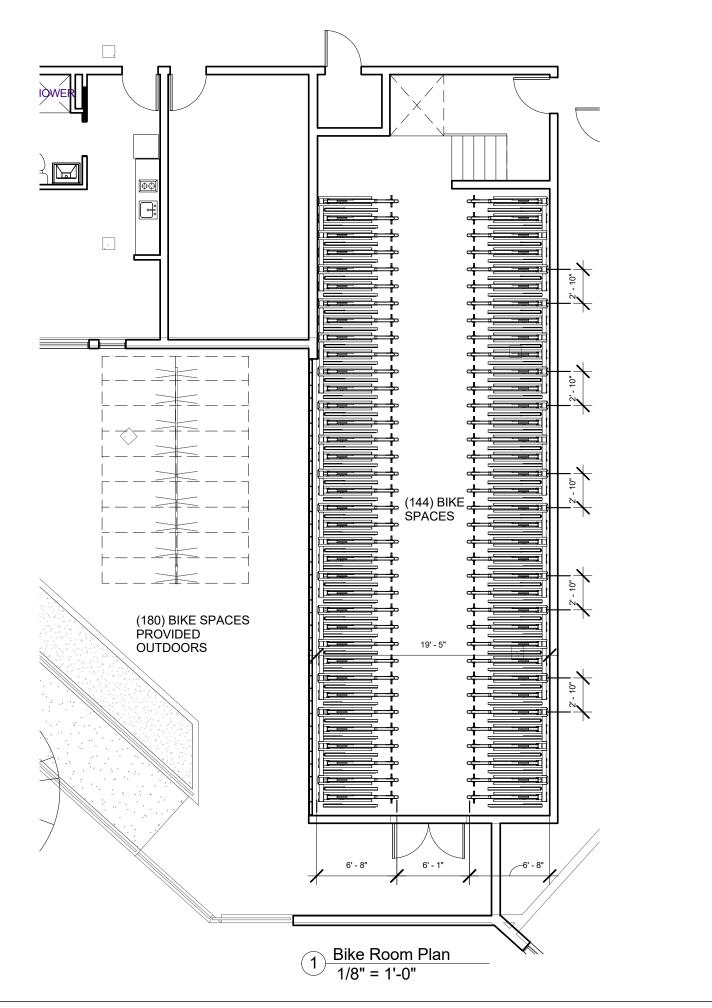
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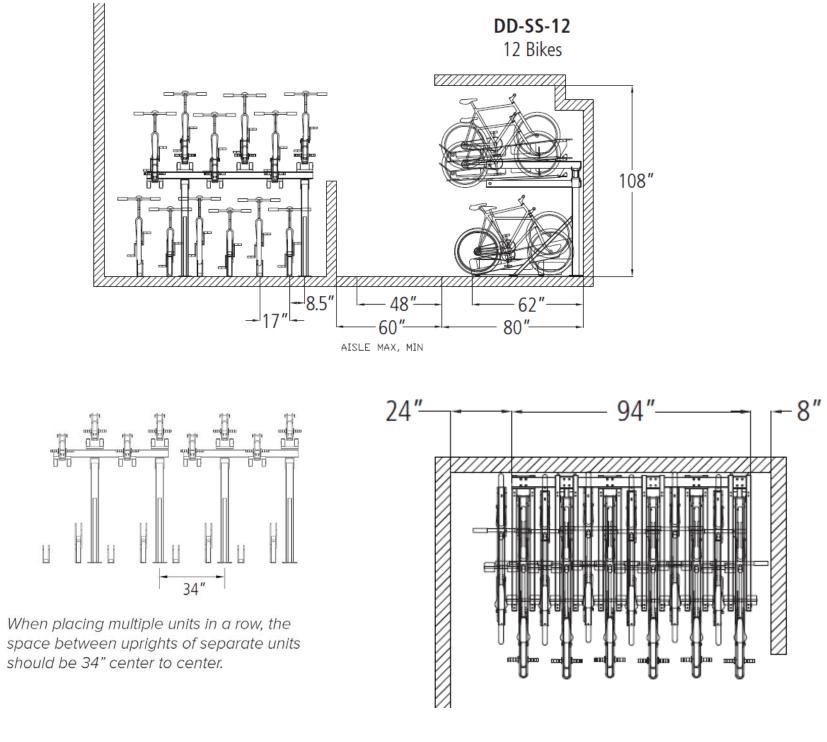
R7









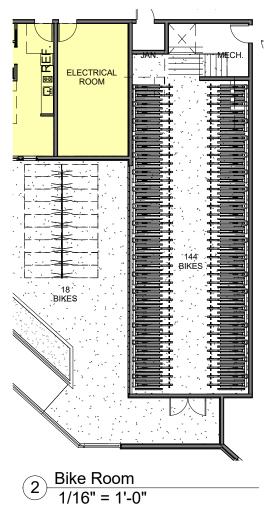


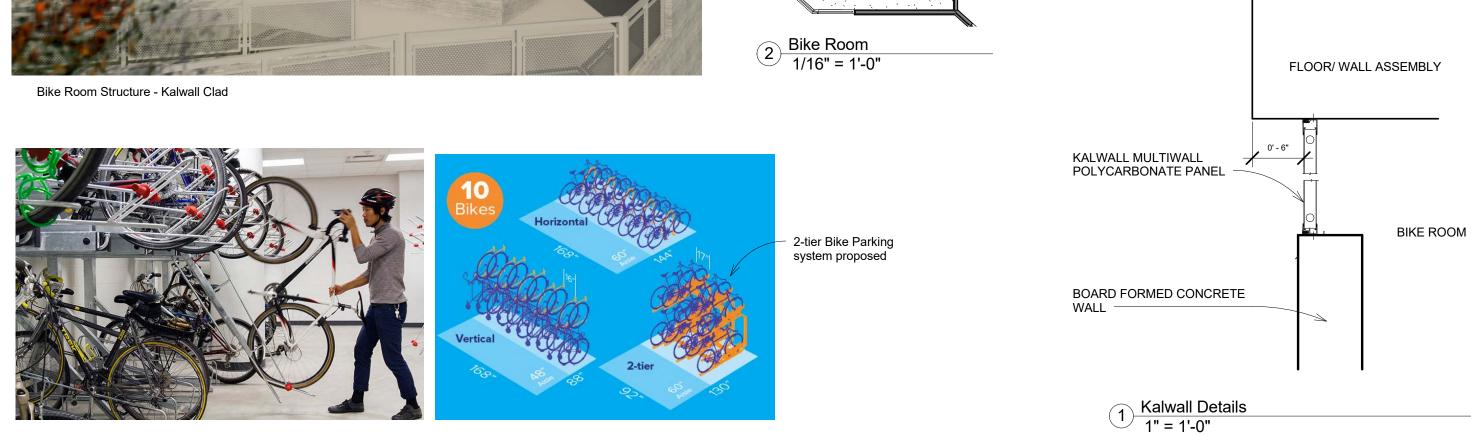
MODIFICATION REQUEST 1'-5" Requested Departure Width Vs. 2' Required. Proposed Staggered Vertical Orientation allows for Closer Spacing with manufactured rack.

144 total bike parking spaces indoor 18 spaces outside in plaza 162 total = 108 x 1.5/unit

Ц







'Dero Decker' Pull-down Tray Bicycle Parking



example of internally lit kalwall structure



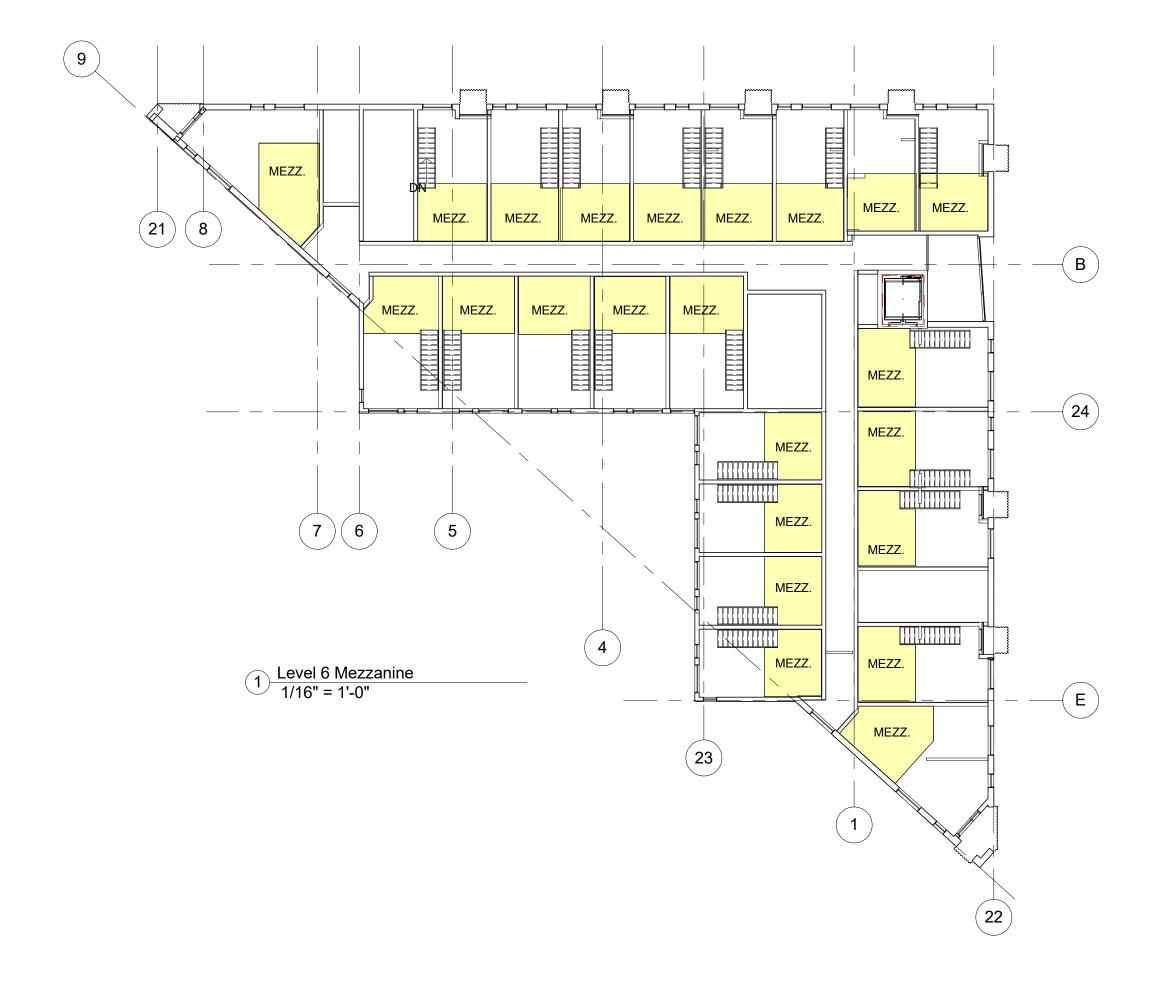
LEVEL 3 PLAN





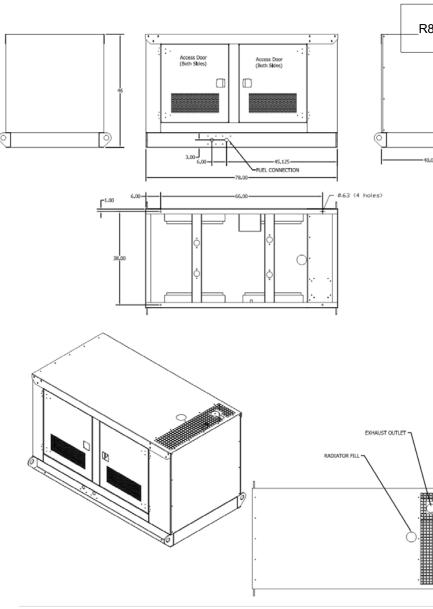




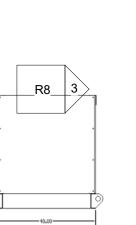


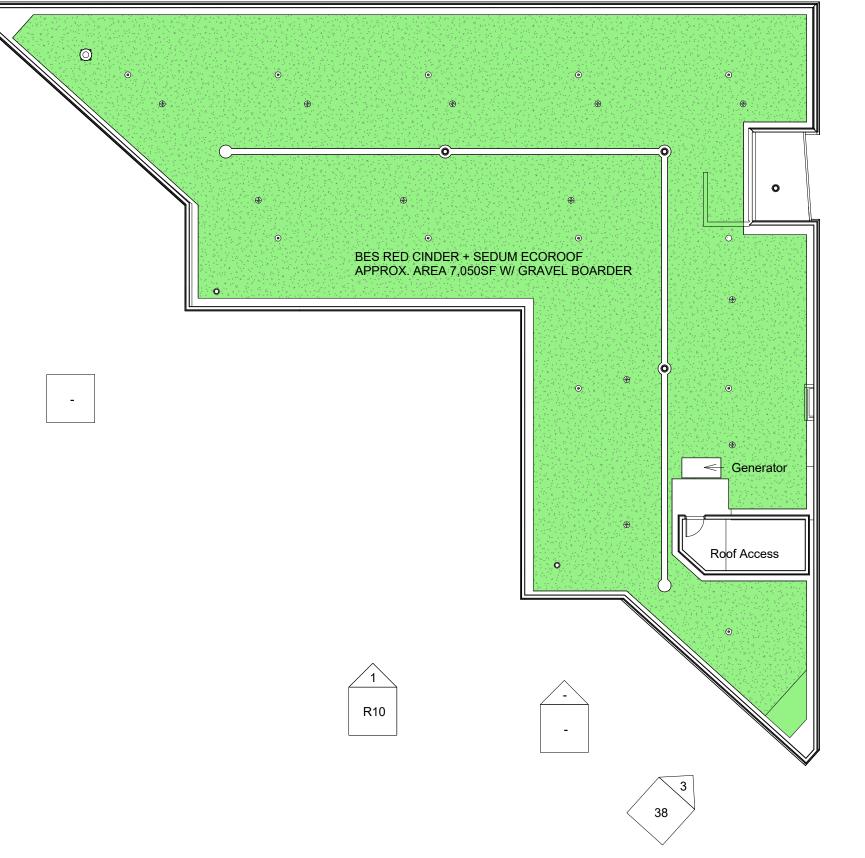


Example: Roof Mounted Generator



Preliminary Generator Drawings







Kōz Development









2211 SW 4th Avenue, Portland Oregon 7/21/2016









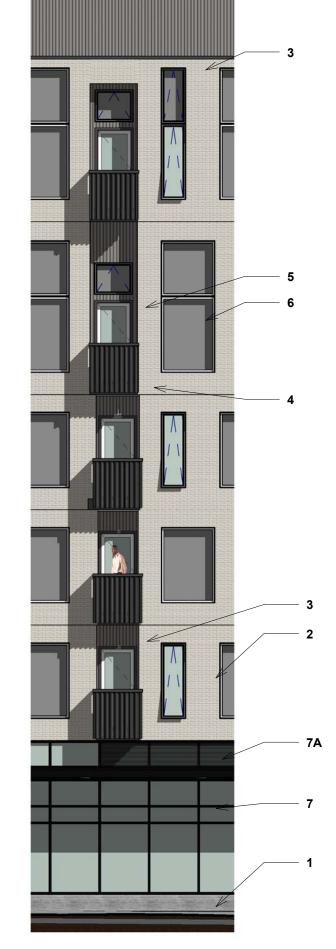
BRICK VENTS - PAINTED TO MATCH BRICK



BRICK TO METAL EXAMPLE OF SIDING TRANSITION

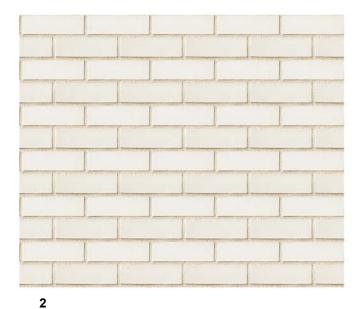


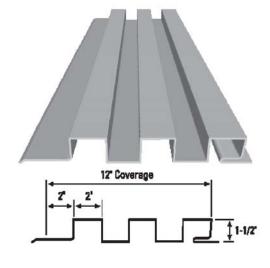
PERFORATED METAL PANEL AT BIKE RAMP RAIL





BOARDFORM CAST-IN-PLACE CONCRETE 1X6, ROUGH-SAWN CEDAR BOARDS, STAGGERED ENDS





3 CONCEALED FASTENER, 22 GA. VERTICAL METAL SIDING



2" STOREFRONT DARK BRONZE/BLACK





6 WHITE VINYL WINDOW **VPI ENDURANCE SERIES**

ALASKA WHITE, SMOOTH BRICK





Cool Old Town Gray

VERTICAL PERFORATED METAL PANEL MATCH PROFILE OF SIDING PANEL, 22 GA.



DESCRIPTION OF MATERIALS The choice and use of exterior

building materials are used to emphasize the massing, scale and pedestrian experience of the structure. Materials such as brick, metal, and concrete have a honest, timeless quality that complement and tie into the Portland palette.

5 FULL LITE METAL DOOR PAINT TO MATCH SIDING



VIEW FROM CORNER OF 4TH AND GRANT





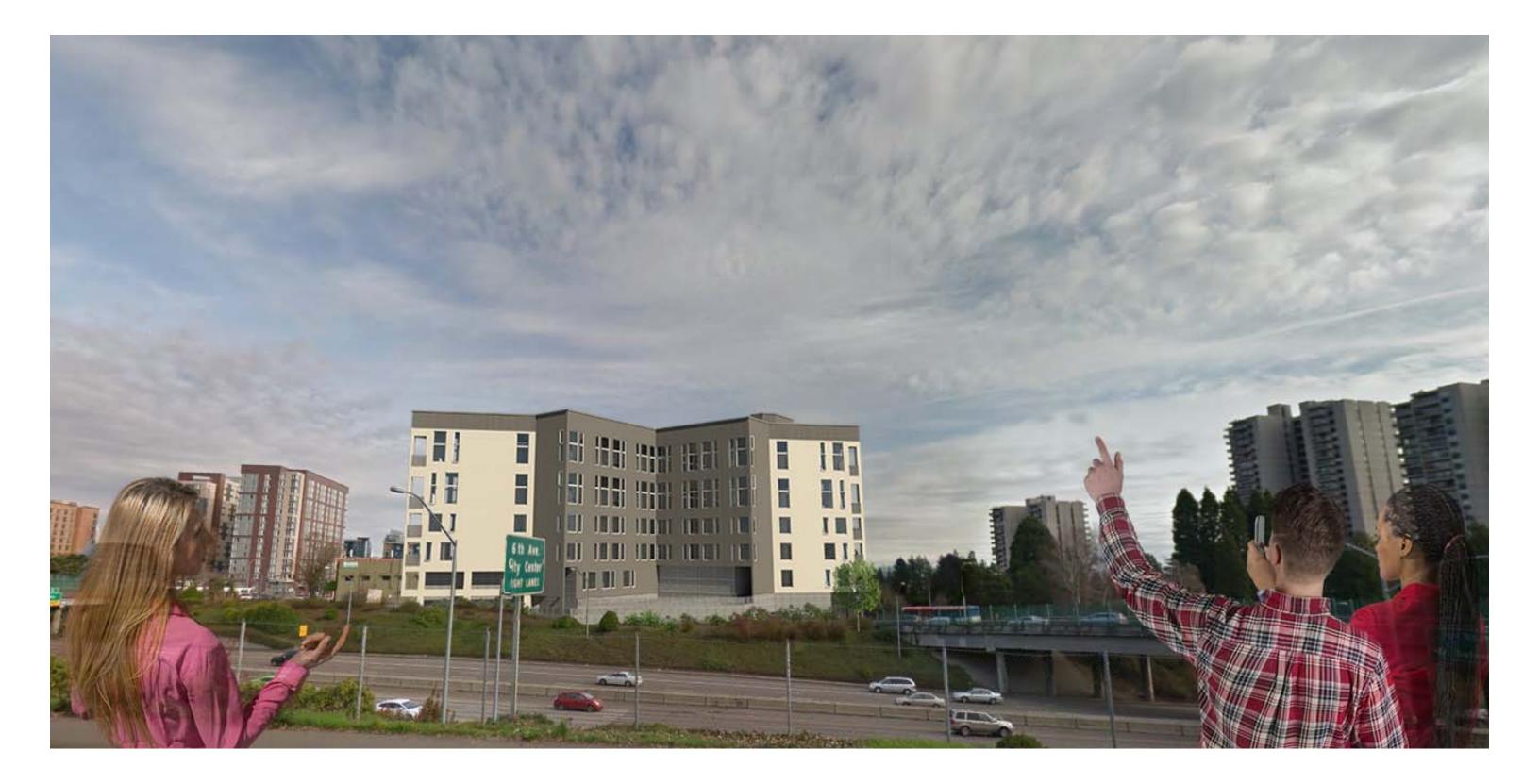
VIEW AT EXIT FROM HOUSING ABOVE



ENTRANCE TO HOUSING LOBBY

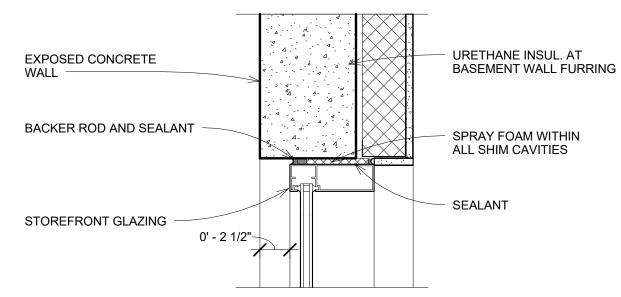


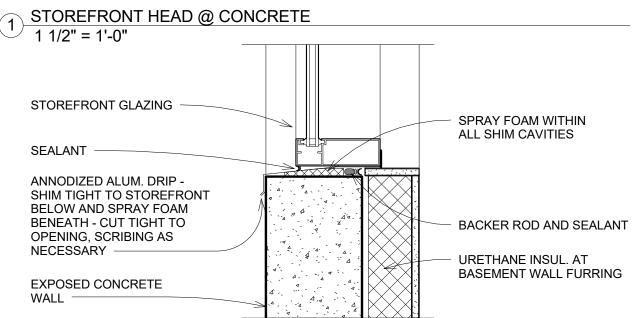
NIGHT VIEW OF CORNER OF 4TH AND GRANT





BIRDSEYE VIEW FROM SOUTH

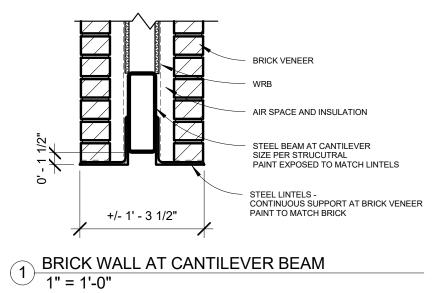




2 STOREFRONT SILL @ CONCRETE 1 1/2" = 1'-0"









VIEW AT NORTHWEST CORNER BIKE GATE / ENTRY



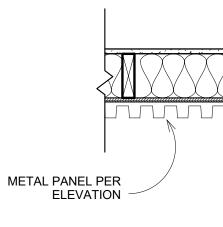
VIEW OF NORTHWEST CORNER



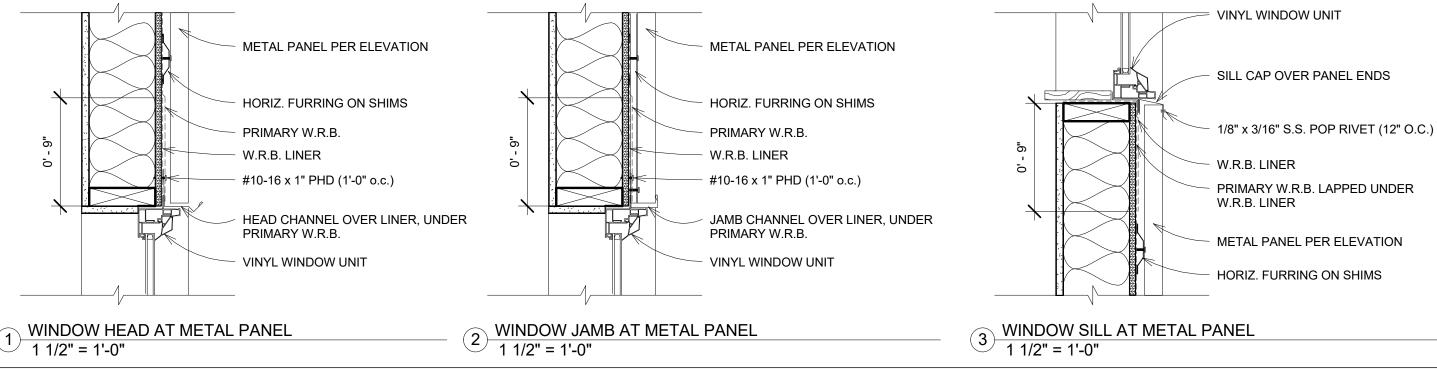


SW GRANT ST PERSPECTIVE ELEVATION





4 BRICK METAL PLAN TRANSITION 1" = 1'-0"

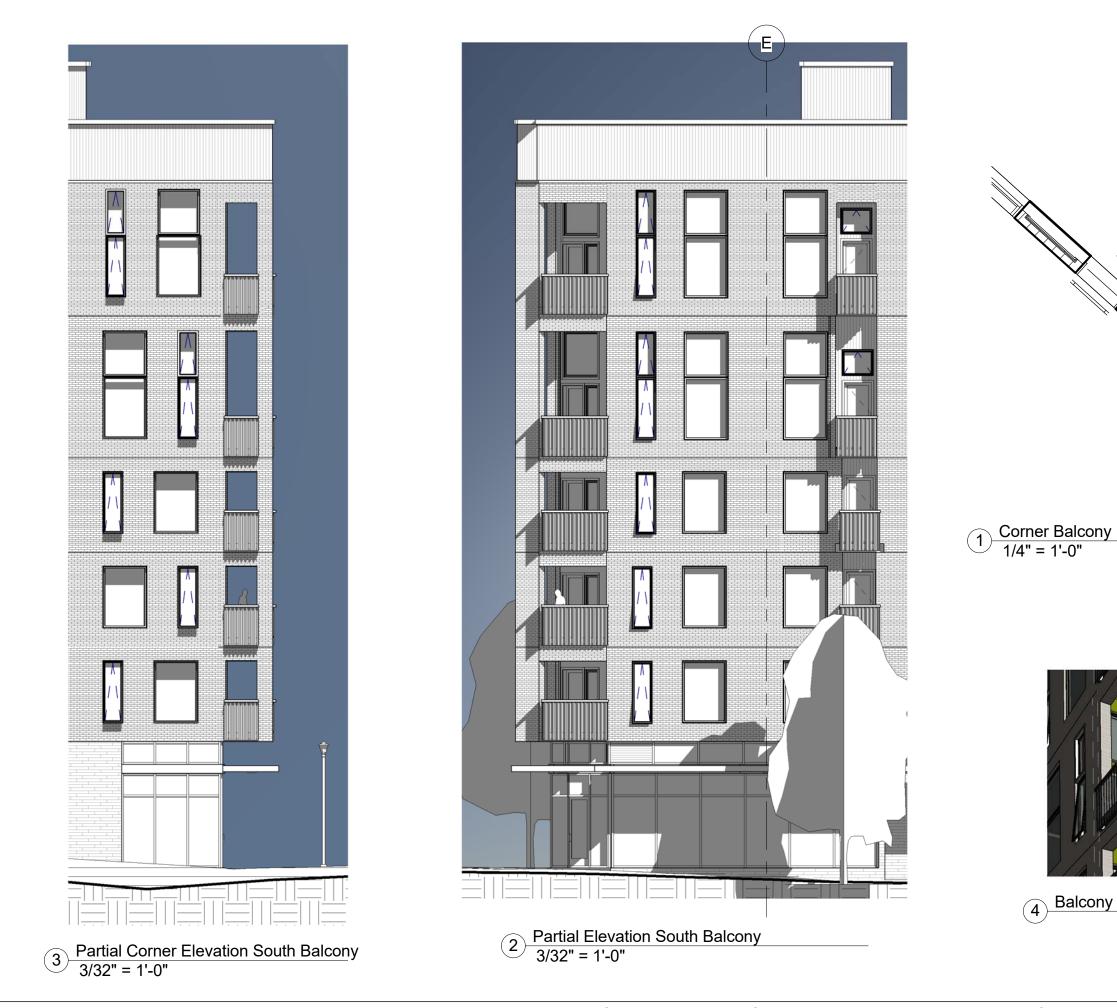


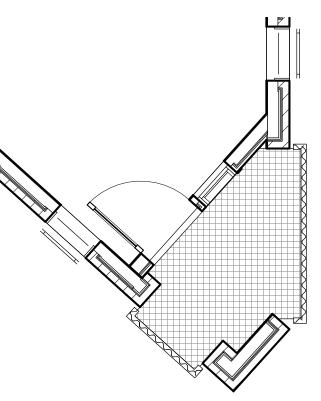
7/21/2016 2211 SW 4th Avenue, Portland Oregon

BRICK PER ELEVATION

CAULKING (COLOR TO MATCH BRICK MORTAR) AND BACKER ROD



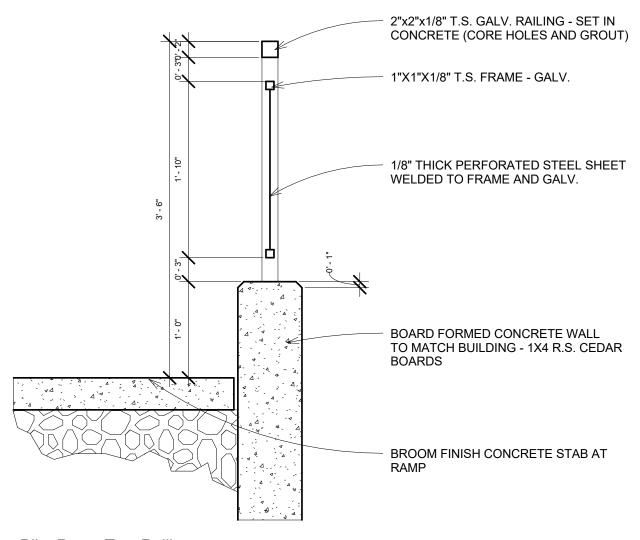


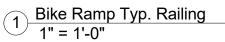


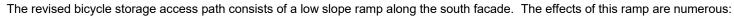


Balcony Perspective

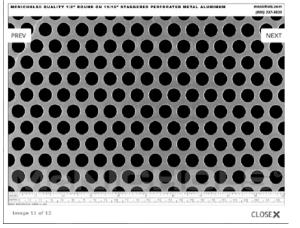






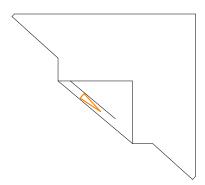


- 1. Activity is introduced along the south facade at the previously vacant foundation wall.
- 2. An additional form is introduced with the detail of the railing providing visual interest.
- 3. The height of the foundation wall facing the I-405 freeway has been minimized.
- 4. The 6' width access provides ample room for bicyclists to exit and enter safely.



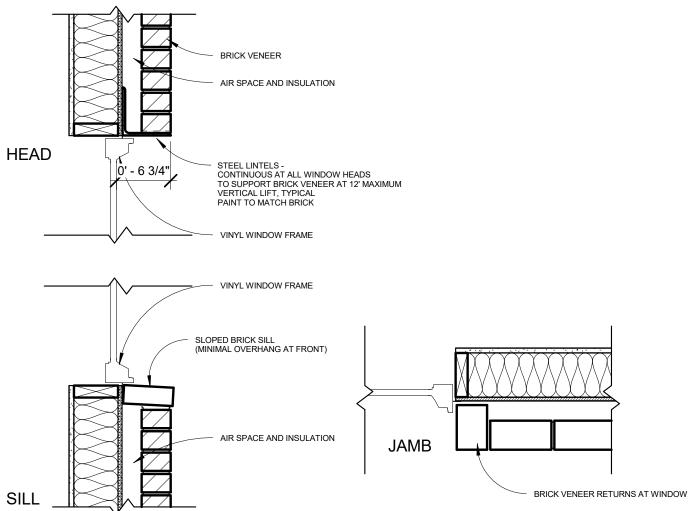
1/2" Round on 11/16" Staggered Spacing, Steel Perforated Panel - mcnichols.com

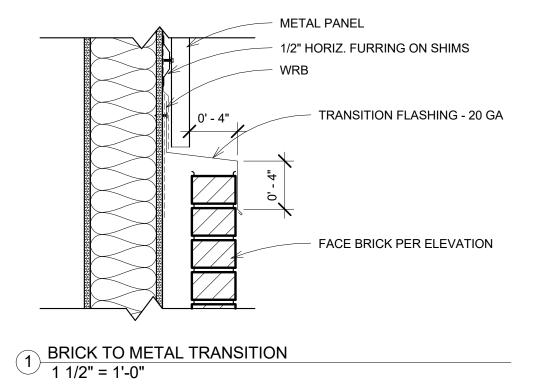












VINYL WINDOW BRICK SIDING 1" = 1'-0" 2





EXAMPLE BIKE RACK



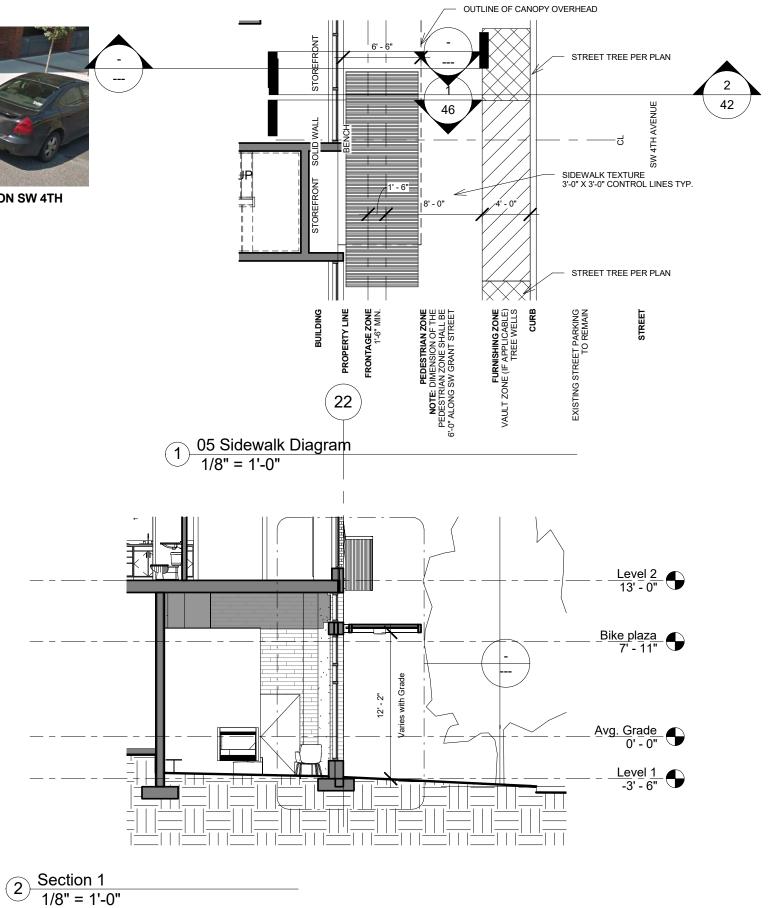
EXAMPLE SITE BENCH

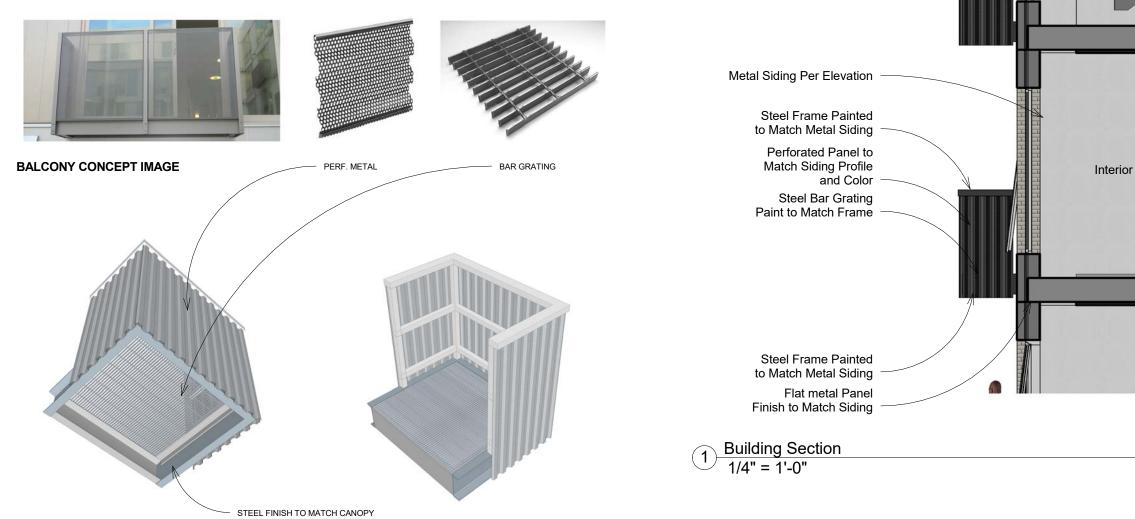


EXAMPLE STEEL CANOPY



BIKE RACK ADJACENT TO SITE ON SW 4TH

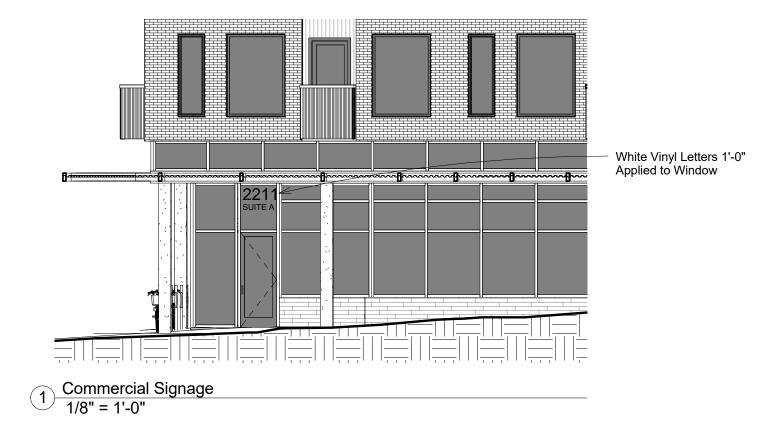


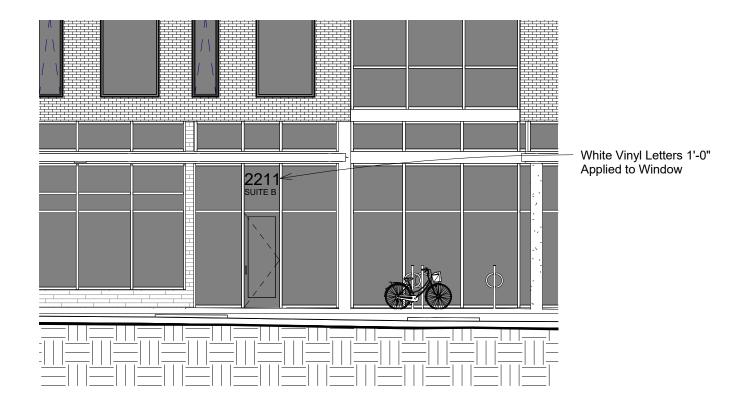


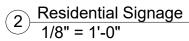
BALCONY MODEL VIEWS



EXAMPLE BALCONY MATERIALS WITH PAINTED METAL FRAME









OBSCURED GLAZING -

ALUMINUM FRAME AND COLOR TO MATCH ADJACENT STOREFRONT-

(2) ROWS SOLID PANEL
 COLOR MATCH FRAME



GARAGE DOOR CONCEPT IMAGE

ALUMINUM DOOR SYSTEMS MODELS 521

. . .

Standard features at a glance

Section thickness	1 3/4" (45 mm)
Maximum standard width	26'2" (7976 mm)
Maximum standard height	20'1" (6121 mm)
Material	Extruded 6061-T6 aluminum
Standard finish	204R-1 clear anodized (painted white at no charge)
Center stile width	2 11/16" (68 mm)
End stile width	3 5/16" (85 mm)
Top rail width	2 3/8" (60 mm) or 3 3/4" (95 mm)
Top intermediate rail width	2 1/8" (54 mm)
Bottom intermediate rail width	1 19/32" (40 mm)
Bottom rail width	3 3/4" (95 mm) or 4 1/2" (114 mm)
Weatherseals	Bottom, flexible PVC
Standard springs	10,000 cycle
Track	2" (51 mm)
Mounting	Angle
Operation	Manual pull rope
Hinges and fixtures	Galvanized steel
Lock	Galvanized, interior-mounted single unit
Color palette	197 powder coat finishes
	All and a second

Optional polyurethane insulation for stiles and rails up to 24' wide

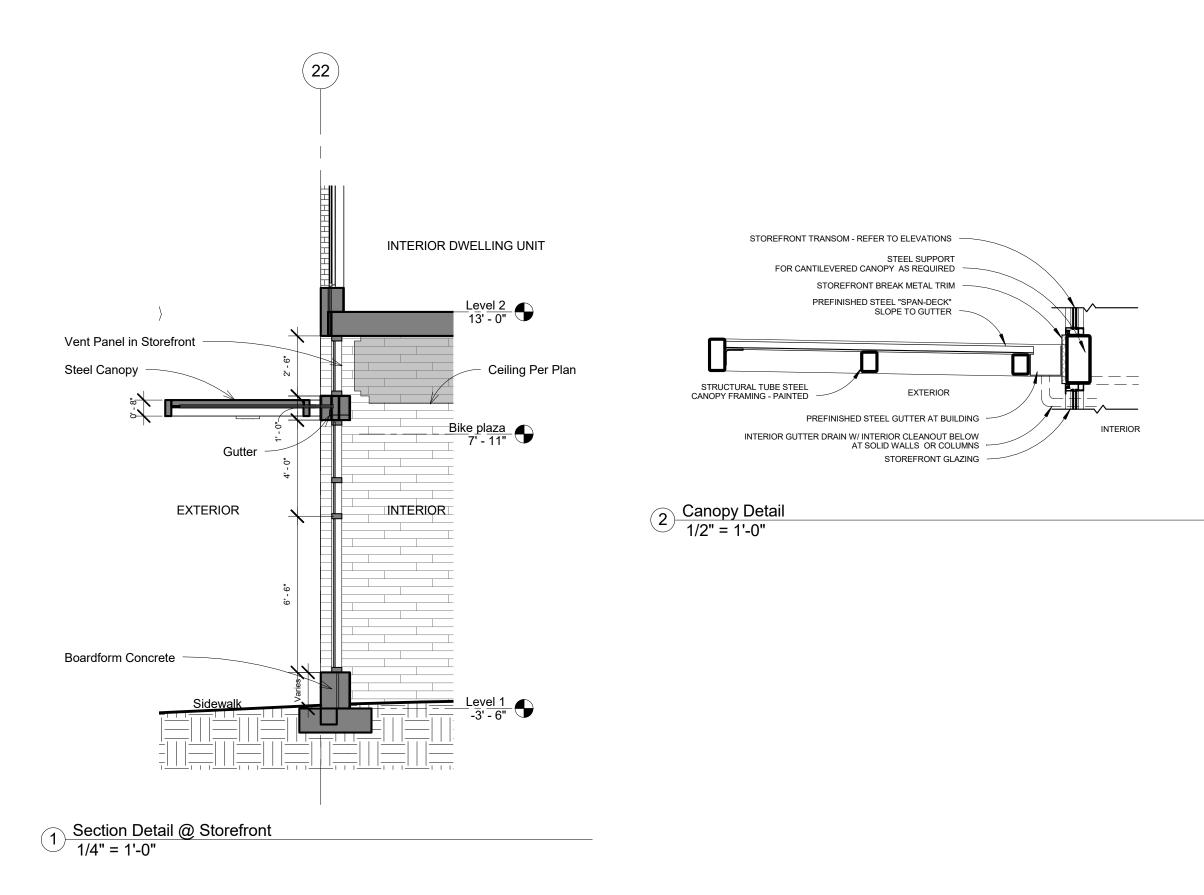
1/2" insulated glazing unit	Door R-value (K m²/W)
DSB- clear, tempered, obscure	2.87
Clear polycarbonate	2.93
DSB - Solar Bronze	3.17
DSB - Low E coating	3.43
SolarBan 70XL argon filled	4.09
Multi-wall polycarbonate	Door R-value (K m²/W)
1/4" tick unit	2.75
3/8" tick unit	3.21
5/8" tick unit	3.48
Insulated panels	Door R-value (K m²/W)
3/8" EPS solid panels	2.60
E 1	

*R-value: Overhead Door Corporation uses a calculated door section R-value for our insulated doors.

PARTIAL RENDERING

Kōz Development

MODIFICATION REQUEST -Granted Requested Departure for 20' Setback of Garage Door - Granted by PBOT.

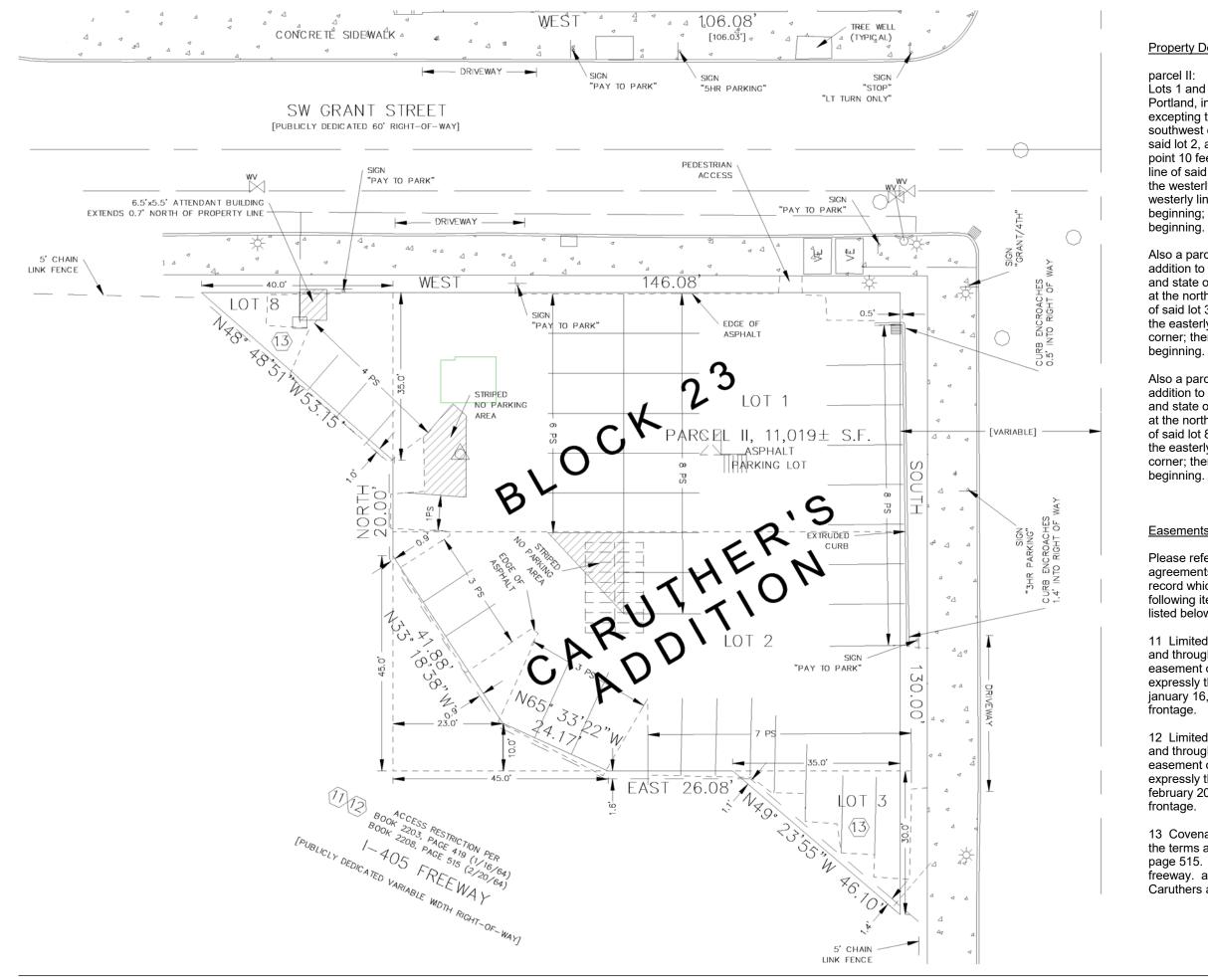


BUILDING DETAILS 46

Appendix



APPENDIX SHEETS	A1	



Kōz Development

Property Description

. Lots 1 and 2, block 23, Caruthers addition to Caruthers addition to the city of Portland, in the city of Portland, county of Multhomah and state of Oregon; excepting the following described portion of lot 2: beginning at the southwest corner of said lot 2: thence easterly along the southerly line of said lot 2. a distance of 45 feet: thence northwesterly in a straight line to a point 10 feet northerly of (when measured at right angles to) the southerly line of said lot 2, and 23 feet easterly of (when measured at right angles to) the westerly line of said lot 2: thence northwesterly in a straight line to the westerly line of said lot 2 at a point 45 feet northerly of the place of beginning; thence southerly along said westerly line to the place of

Also a parcel of land lying in lot 3, block 23, Caruthers addition to Caruthers addition to the city of Portland, in the city of Portland, county of Multhomah and state of Oregon, the said parcel being described as follows: beginning at the northeast corner of said lot 3; thence westerly along the northerly line of said lot 3, a distance of 35 feet; thence southeasterly in a straight line to the easterly line of said lot 3 at a point 30 feet southerly of said northeast corner; thence northerly along said easterly line, 30 feet to the place of

Also a parcel of land lying in lot 8, block 23, Caruthers addition to Caruthers addition to the city of Portland, in the city of Portland, county of Multhomah and state of Oregon, the said parcel being described as follows: beginning at the northeast corner of said lot 8; thence westerly along the northerly line of said lot 8, a distance of 40 feet; thence southeasterly in a straight line to the easterly line of said lot 8 at a point 35 feet southerly of said northeast corner; thence northerly along said easterly line 35 feet to the point of

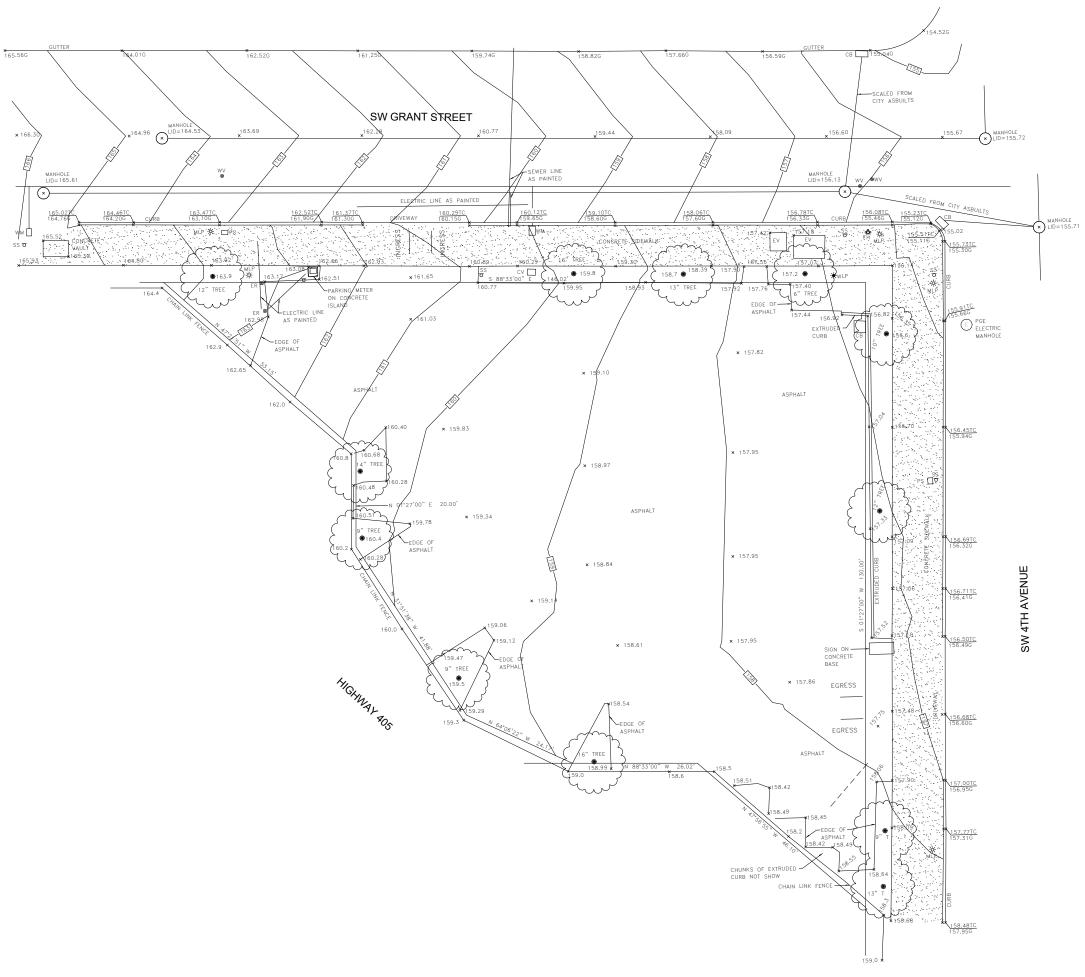
Easements - Encumbrances

Please refer to the amended preliminary title report for all items concerning agreements, liens, waivers, assessments, leases, taxes and other matters of record which do not reflect any survey matters and are not listed below. the following items were listed in the commitment noted in my note no.1 and are listed below with my comments.

11 Limited access provisions contained in deed to the state of Oregon, by and through its state highway commission, which provides that no right or easement of right of access to, from or across the state highway other than expressly therein provided for shall attach to the abutting property. recorded january 16, 1964, in book 2203, page 419. restricts access along freeway

12 Limited access provisions contained in deed to the state of Oregon, by and through its state highway commission, which provides that no right or easement of right of access to, from or across the state highway other than expressly therein provided for shall attach to the abutting property. recorded february 20, 1964, in book 2208, page 515, restricts access along freeway

13 Covenants, conditions and restrictions imposed by instrument, including the terms and provisions thereof, recorded February 20, 1964, in book 2208, page 515. deed prohibits placement of advertising sign within view of the freeway. applies to those portions of parcel ii lying in lots 3 and 8, block 23, Caruthers addition to Caruthers addition to the city of Portland.



TOPO SURVEY

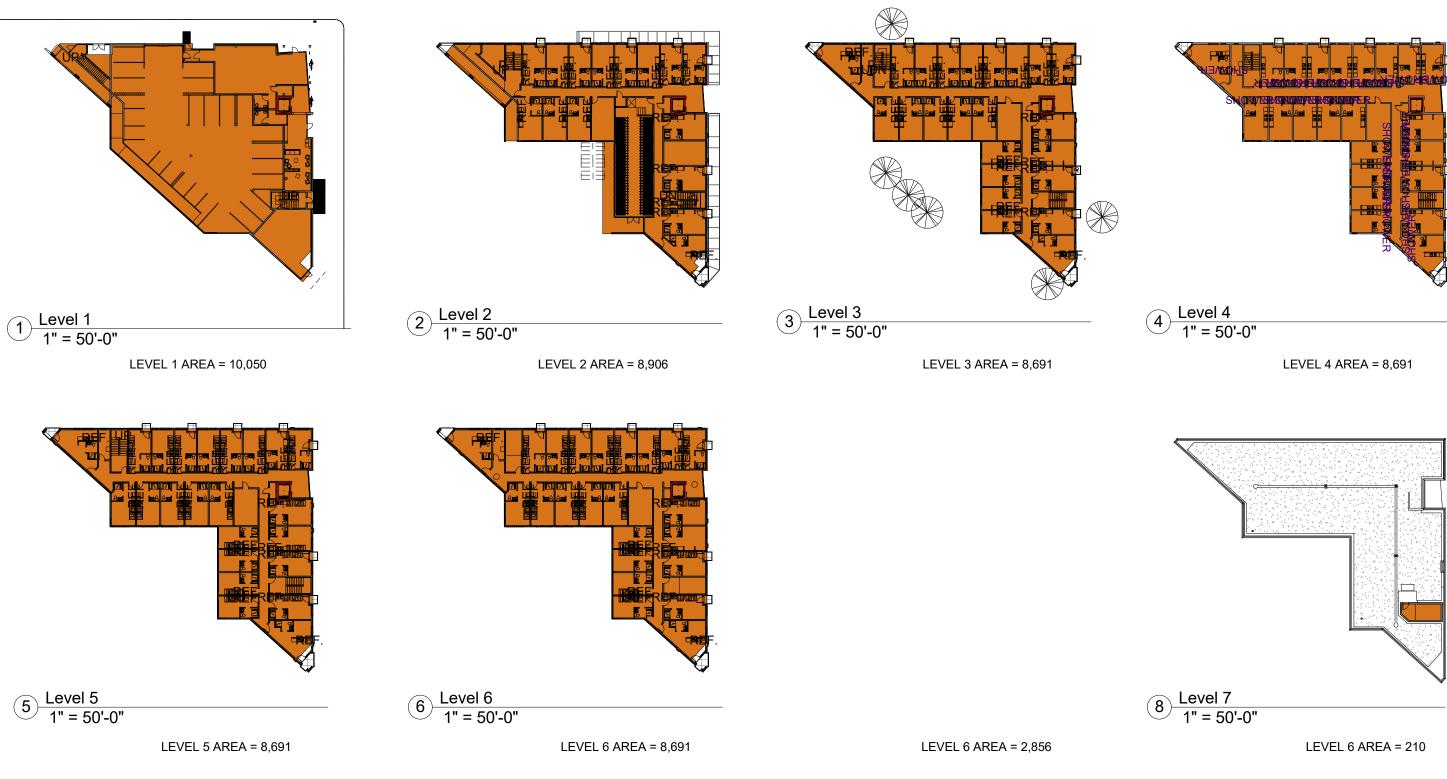
SITE/PROJECT INFORM		Project Informati
Site Description:	project is leasted on a triangular site at the corner of SW/4th	Project:
Street and SW Grant Av park" uncovered surface parking area covers the curb cut access drive isl located within the downth	project is located on a triangular site at the corner of SW 4th enue, adjacent to I-405. Currently the site is used as a "pay to parking lot, with no existing built structures. The existing majority of the site and consists of 40 parking spaces with 2 es, one from Grant street and the other from 4th. The site is own Portland neighborhood and borders the Portland State	Developer/Owne
University campus and is	s at the gateway to the South Portland neighborhood area.	Previous Review
Tax Account Number:	R128694	
State ID:	1S1E04DD 01100	Project Descripti
Total Site Area:	11,019sf	
Zoning:	Central Commercial (CXd) Design Overlay	
Plan District:	Education Urban Renewal District CC - Central City University District Plan	
Proposed Building SF:	Level 1 9,810 sf Level 2 7,767 sf Level 3-4 8,689 sf Level 5-6 10,989 sf Level 7 210 sf Total SF 57,143	
F.A.R.	6:1 base or 9:1 w/ Residential bonus 11,019 X 9 = 99,153SF Max Allowable SF Proposed FAR 5.2	
Height:	 125' / 200' w/ bonuses Allowable per zoning code 85' Allowable by Building Code for Project Type. +/- 87'-6" Proposed top of roof stair tower above avg. grade. +/- 81' Proposed top of parapet wall above avg. grade. 	
Grade Level Glazing:	Required 50% of facade length 25% of area Refer to Calculated Area Pg A6	
Bicycle: See site plan for short t	Required Short term: (5.4) 5 spaces req. @ 1/20 per unit term parking, 5 spaces provided) Required Long term: 162 spaces req. @ 1.5 per unit 162 spaces provided (144 interior, 18 exterior)	
Parking: 23 Cor	nmercial pay per use, 2 loading spaces	
Construction Type:	Proposed 5 levels of type III-A over 1 level of type I-A	
# of Units:	108 Residential Units (Average unit size 250sf (preliminary)) (1) 1,105 sf Commercial Unit	
	Level 216 UnitsLevel 323 UnitsLevel 423 UnitsLevel 523 UnitsLevel 623 Units	

2211 SW 4th Apartments 2211 SW 4th, Portland, Oregon 97201

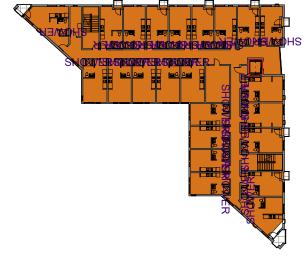
KOZ Development 1208 Tenth Street Suite 201 Snohomish, WA 98290

Preapplication Conf. #EA 15--114048 March 12, 2015 Land Use DAR #15-153663DA June 18, 2015

108 Unit "micro unit" residential apartment building over surface level parking and (2) commercial 855sf units.



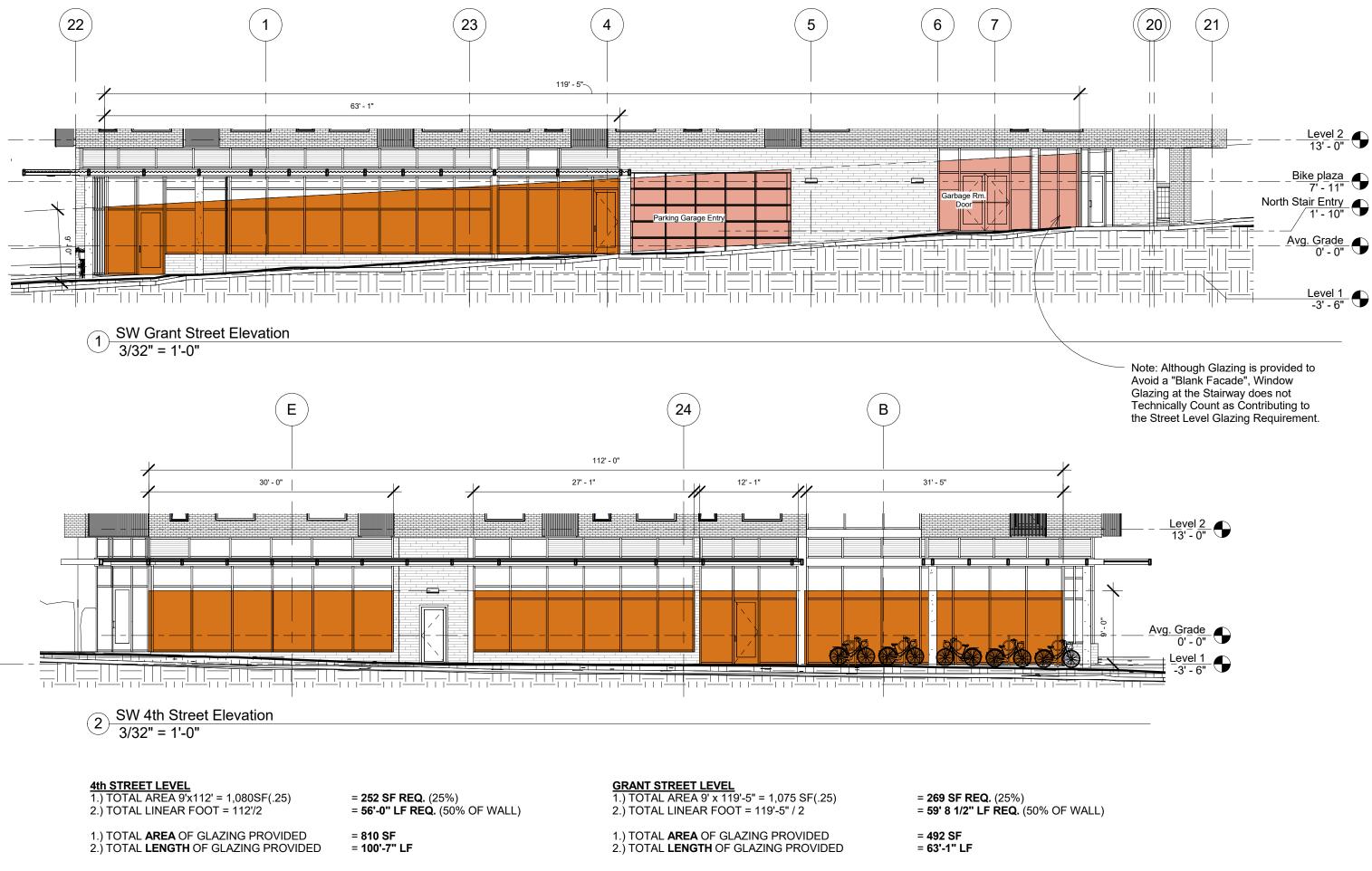
		Proposed Building GSF:	Level 1 Level 2 Level 3-6 Level 6B <u>Level 7</u> Total SF
		F.A.R.	6:1 or 9:1 w/ R 11,019 X 9 = 9 Proposed FAF
2211 SW 4th Avenue, Portland Oregon	7/21/2016	Design Review Presentation LU 16-129367	DZ





el 1	10.050
el 2	8,906
el 3-6	8,691
el 6B	2,856
<u>el 7</u>	210
al SF	56,786

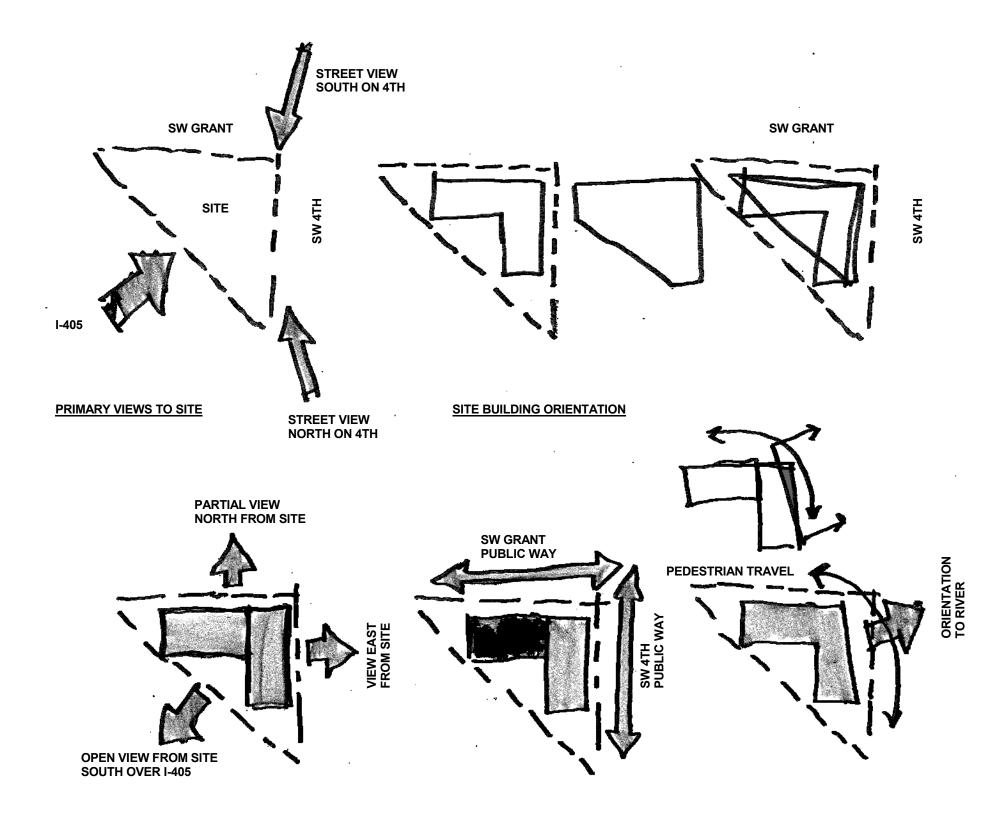
Residential bonus 99,153SF Max Allowable SF R 5.1



7/21/2016 2211 SW 4th Avenue, Portland Oregon

Design Review Presentation LU 16-129367 DZ

GROUND LEVEL WINDOW SUMMARY



DESIGN PARTI SUMMARY

this area.

Given the sites location within the University District, its proximity to Portland State University, OHSU, and Downtown, our target residents include OHSU and PSU staff and faculty, students and medical residents, employees of nearby businesses, including Under Armor, CH2M Hill, etc. PSU alone has approximately 30,000 students as well as 6,900 employees; while OHSU has 4,500 students and 2,800 faculty. Under Armor's 70,000 square foot campus one block to the south will house over 200 employees starting in 2016 further increasing the demand. Downtown studio units to serve this strong demand pool are non-existent (1,026 in the fall of 2015) driving up rents and forcing these individuals to live out of the downtown area and commute. Due to the high demand and the limited supply **affordability** in the Downtown core has become an issues with average Downtown studio rents at \$969, excluding utilities, in the fall of 2015. Class A studio (average 545 square feet) rents were higher averaging \$1,500 excluding utilities and \$1,619 including utilities. Koz is currently estimating rents in its market rate studio units at \$1050 - \$1,100, including utilities and all furnishings and our 1bedroom loft units at \$1,300 - \$1,350. In addition, Koz has applied for the Portland Housing Bureau's MULTE program. We have attended a pre-application meeting and it approved will provide 22 affordable units at 60% AMI in the heart of Downtown Portland (\$772, including utilities and furnishings, for the studios and \$827 for the 1-bedroom lofts).

SITE PARTI STUD

Basic site analysis and site conditions which held influence over the mass, scale, form and function of the building include the geometry of the site, views from the site, views into the site, and public ways adjacent to the site. Other nonphysical influences such as parking demands, market demand drivers, which include Portland's need for affordable housing also influenced the overall shape, size and program of the project. The **geometry** of the site as a triangle, strongly guided the overall shape of the structure

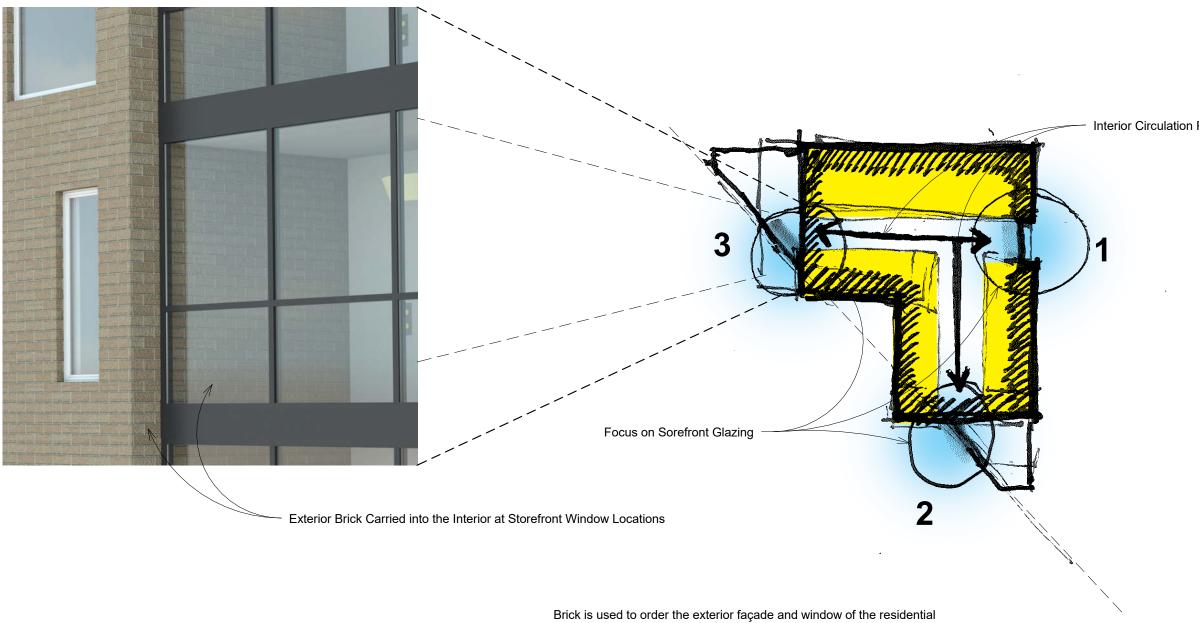
and can be seen as a clear influence and guiding concept in the final proposal which seeks to emphasize and embrace the triangle shape of the site while maximizing the efficiency of the site. Views from the site determine where to control the site form

efficiency of the site. **Views from** the site helped determine where to capitalize and focus unit window locations. The angle of the eastern façade, although lacking a direct view to the river, is angled to acknowledge the river orientation and to create interest and definition on the corner of 4th and Grant. In addition, this angled glass façade adjacent the elevator orients the residents view to the Halprin Open Space Sequence and the Pedestrian Trail. **Views into** the site were considered while shaping the identity of the building and helped influence the massing concept. The southwest façade (I-405 side) uses gestalt to emphasize the relationship of the triangle through the carved out box shape which defines the ordered unit layout. The "carved out" square reduces the building mass and provides a greenspace on the second level. Changes in materials support the gestalt design concept and strengthen the form and massing. The Southeast corner of the building was eroded to engage pedestrians as they drive and walk across the 4th street overpass.

The South corner on 4th has been emphasized with a "jewel box" entry and a third floor exterior covered balcony with a built in table that encourages outdoor gatherings. In addition, resident rooms with balconies create interest and connectivity to the businesses and Under Armor campus across Interstate 405. The Northwest corner of the building is activated by a dramatic stairwell with floor to ceiling windows, bright colored lights, and an acute point of the triangle making the stair stand out and provide interest. **Public ways**, and pedestrian travel were studied for points of building arrival, access, window placement, and massing orientation. The angle in the eastern façade, while

acknowledging the river, also erodes the corner of the structure allowing for a more calming and engaging pedestrian experience, and highlights the primary building function for the residential entry at the corner. The Southeast corner of the building engages with the pedestrian starting with a two-story glass façade that looks into a recreation room. Continuing along 4th, the pedestrian experience continues with tall tables along the glass façade where residents can study, socialize, work, etc. while other residents are engaging in various social activities. The Northwest corner will engage the pedestrian immediately as they are traveling along Grant Street toward 4th Avenue, with colorful street art, lit up in the stair well. As you are nearing the corner of 4th, a commercial space has been designed that allows for an interesting future retail alternative.

The site is currently an unimproved surface **parking** lot with 40 parking spots. The current 40 parking spots are in high demand with current data indicating an 80% usage rate. As proposed, those 40 spots will be reduced to 25 spaces which are creatively hidden behind the façade along 4th & Grant. Given the 108 resident units included in our proposed building, the 30,000 rentable space located in the Chase building directly to the North and the proximity to PSU's campus, the 24 parking spaces are critical to the parking demand in



Brick is used to order the exterior façade and window of the residential units. At key points along the internal circulation path floor to ceiling storefront is used to lighten the transition from brick to metal. These architectural moments are further emphasized by pulling the exterior brick cladding into the interior.

Interior Circulation Pattern



EXAMPLE OF METAL MATERIALS



MASSING CONCEPT



EXAMPLE OF BRICK WITH CONCRETE BASE



EXAMPLE OF BRICK WITH CONCRETE BASE





EXAMPLE OF MASSING AND CONCRETE BASE WITH METAL SIDING

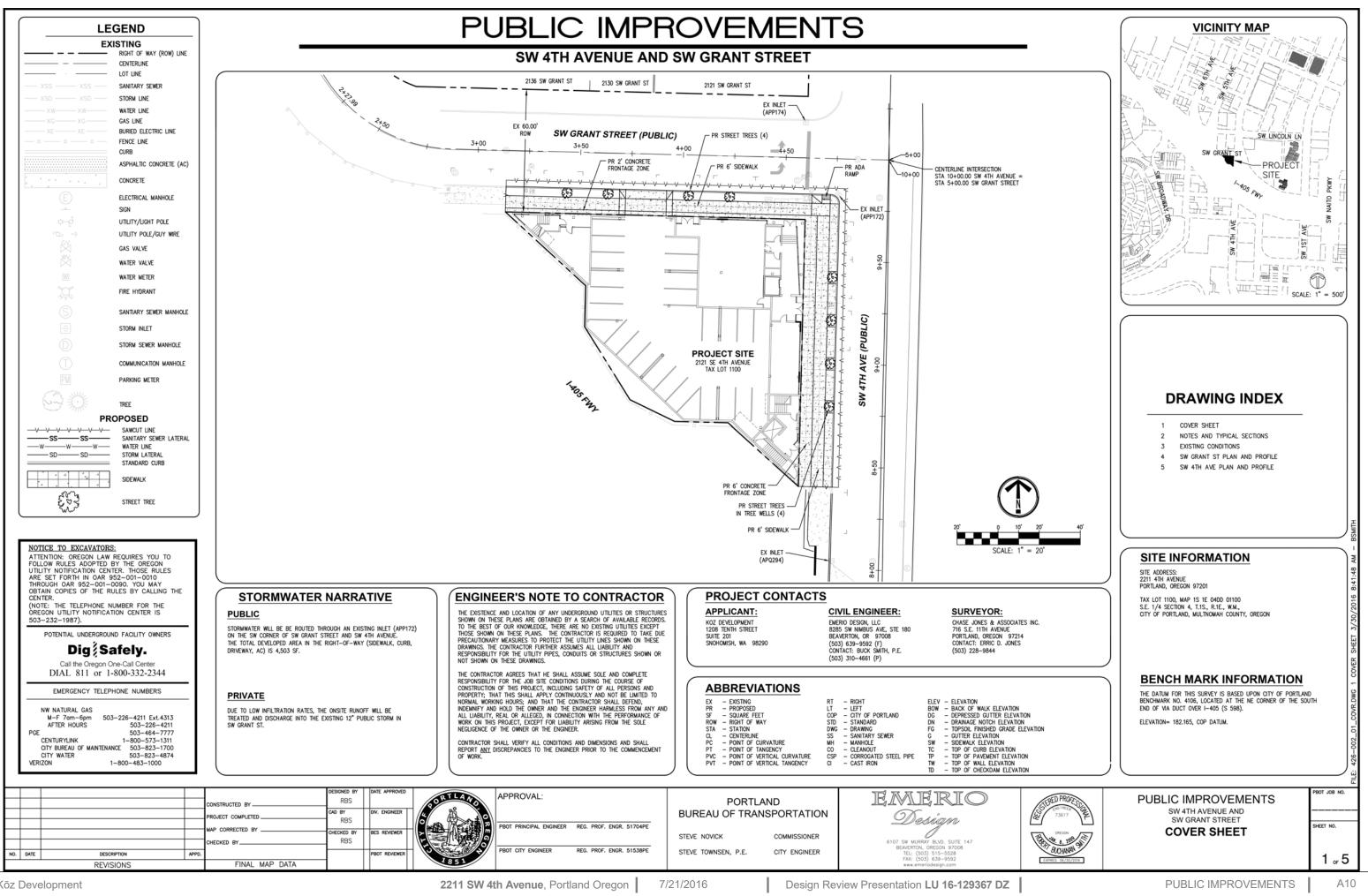


EXAMPLE OF TRANSPARENT STEEL BALCONY





PRECEDENT IMAGES



GENERAL NOTES

- ERRORS AND OMISSIONS ARE THE RESPONSIBILITY OF THE 'ENGINEER OF RECORD'. IF ERRORS OR OMISSIONS ARE FOUND AFTER THE PERMIT HAS BEEN ISSUED, THE PERMITTEE OR ITS CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD (BUCK SMITH OF EMERIO DESIGN, 503-310-4661) TO HAVE THE CORRECTIONS MADE. ALL CHANGES WILL REQUIRE THE APPROVAL OF THE CITY ENGINEER PRIOR O THE WORK BEGINNING.
- 2. THE CONTRACTOR SHALL HAVE AT ALL TIMES ON-SITE, THE APPROVED CONSTRUCTION DRAWINGS & SPECIAL SPECIFICATIONS, CITY OF PORTLAND STANDARD SPECIFICATIONS & STANDARD DRAWINGS, AND ALL OTHER APPLICABLE SPECIFICATIONS BOOKS AND MANUALS. ELECTRONIC EQUIVALENT ARE ACCEPTABLE.
- 3. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THESE DRAWINGS AND THE APPLICABLE REQUIREMENTS OF THE 2010 EDITION OF THE CITY OF PORTLAND STANDARD CONSTRUCTION SPECIFICATIONS AND ALL REVISIONS AND SPECIAL SPECIFICATIONS.
- 4. A PRECONSTRUCTION CONFERENCE WITH CITY STAFF AND AN APPROVED TEMPORARY TRAFFIC CONTROL PLAN (ISSUED IN CONJUNCTION WITH A STREET/SIDEWALK CLOSURE PERMIT) ARE REQUIRED BEFORE COMMENCING WORK. SEE PERMIT FOR SCHEDLING A PRECONSTITION CONFERENCE AND ACQUISITION OF THE TTCP.
- 5. ELEVATIONS ARE BASED ON CITY OF PORTLAND DATUM FROM BENCH MARK NO. 4106, ELEVATION = 182.165, LOCATED AT THE NE CORNER OF THE SOUTH END OF VIA DUCT OVER I-405 (S 598).
- ATTENTION EXCAVATORS: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THESE RULES FROM THE CENTER BY CALLING [503.232.1987]. IF YOU HAVE ANY QUESTIONS ABOUT THE RULES, YOU MAY CONTACT THE CALL CENTER. YOU MUST NOTIFY THE CENTER AT LEAST 2 BUSINESS DAYS, BUT NOT MORE THAN 10 BUSINESS DAYS, BEFORE COMMENCING AN EXCAVATION. CALL [811 OR 1-800-332-2344]

ENCROACHMENTS

7. STREET FURNISHINGS ARE SHOWN FOR REFERENCE ONLY. THE INSTALLATION OF ALL STREET FURNITURE INCLUDING BUT NOT LIMITED TO BENCHES, NON CITY INSTALLED BIKE RACKS, GARBAGE CANS, ELECTRICAL SYSTEMS (CONDUIT, CONDUCTORS, OUTLETS), AND PUBLIC ART, ARE NOT AUTHORIZED UNDER THIS PERMIT. A SEPARATE REVOCABLE PERMIT IS REQUIRED.

UNANTICIPATED CONTAMINATED MATERIAL

8. REMOVE AND DISPOSE (AT A PROPER LOCATION OR LANDFILL) ALL MATERIALS EXCAVATED FROM WORK IN THE RIGHT-OF-WAY. FOR DISPOSAL ON PRIVATE PROPERTY, SECURE A FILL PERMIT, PRIOR TO BEGINNING WORK FROM THE BUREAU OF DEVELOPMENT SERVICES (BDS). PROVIDE A COPY OF THE APPROVED FILL PERMIT TO THE STREET CONSTRUCTION INSPECTOR.

FOR UNANTICIPATED CONTAMINATED MEDIA ENCOUNTERED, THE PERMITTEE/APPLICANT OR ITS AGENT SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE MANAGEMENT, AND DISPOSAL OF CONTAMINATED MEDIA ENCOUNTERED. THE PERMITTEE IS ALSO RESPONSIBLE FOR ALL RESULTANT DELAYS.

THE PERMITTEE OR ITS AGENT SHALL PROVIDE THE CITY (ENGINEERING AND INSPECTION) WITH COPIES OF ALL DISPOSAL PERMITS FROM THE PERMITTED DISPOSAL FACILITY, ANALYTICAL RESULTS USED TO GAIN ACCEPTANCE OF THE CONTAMINATED MEDIA, AND DISPOSAL RECEIPTS/DAILY WEIGH SLIPS. DAILY WEIGH SLIP AMOUNTS SHALL BE CHECKED AGAINST INSPECTOR'S DAILY REPORTS. THE PERMITTEE MUST USE AN OREGON FACILITY FOR DISPOSAL OF THE CONTAMINATED MEDIA.

UTILITES

- 9. UTILITIES SHOWN ON THESE PLANS ARE FOR INFORMATION AND COORDINATION PURPOSES ONLY AND ARE NOT AUTHORIZED FOR INSTALLATION UNDER THE PUBLIC STREET IMPROVEMENT PERMIT. PRIVATE AND PUBLIC UTILITY COMPANIES ARE REQUIRED TO SECURE SEPARATE UTILITY PERMITS FROM THE PBOT FOR ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY.
- 10. COORDINATION OF ALL UTILITY RELOCATES, REMOVALS, OR INSTALLATION WITHIN THE LIMITS OF WORK IS THE RESPONSIBILITY OF THE PERMITTEE/CONTRACTOR
- 11. STORM AND SANITARY SEWERS ARE BEING CONSTRUCTED UNDER JOB #_____, AS APPROVED BY THE BUREAU OF ENVIRONMENTAL SERVICES.
- 12. WATER MAINS AND SERVICES ARE BEING CONSTRUCTED UNDER JOB # _____, AS APPROVED BY THE WATER BUREAU.

STREET PAVEMENT

- 12. ALL MANHOLE LIDS AND VALVE BOXES SHALL BE ADJUSTED TO FINISHED STREET GRADE.
- 13. THE PBOT INSPECTOR WILL DETERMINE THE EXACT LIMITS OF SKINPATCHING LEVEL 2 ASPHALT CONCRETE.
- 14. THE STREET INSPECTOR WILL MAKE THE FINAL DETERMINATION OF THE LIMITS OF PAVEMENT RESTORATION, INCLUDING SAWCUT LINES AND SKIN PATCHING, THE PERMITTEE/CONTRACTOR SHALL CONSULT WITH THE STREET INSPECTOR PRIOR TO SAWCUTTING OR DEMOLISHING OF
- 15. SAWCUTS SHALL BE STRAIGHT MATCHLINES TO CREATE A BUTT JOINT BETWEEN THE EXISTING PAVEMENT AND NEW PAVEMENT AND ALL NEW PAVEMENT JOINTS SHALL BE SAND SEALED.
- 16. EXISTING PAVEMENT SECTION WIDTHS OF 2 FEET OR LESS BETWEEN PROPOSED SAWCUT AND EXISTING PAVEMENT EDGE (I.E. UTILITY TRENCH REPAIR), SHALL BE RESTORED PER STD. DWG. P-505.
- 17. PAVEMENT SECTION SHALL BE AS SHOWN ON THE STREET TYPICAL SECTION(S) OR MATCH EXISTING PAVEMENT IF EXISTING IS A THICKER

CURBS, SIDEWALKS, AND DRIVEWAYS

- 18. UTILITY LIDS, MANHOLE COVERS, VALVE COVERS (THAT ARE NOT SHOWN ON THESE CONSTRUCTION DRAWINGS) ARE NOT ALLOWED IN THE THROUGH PEDESTRIAN ZONE. THEY MUST BE PLACED IN THE SIDEWALK FURNISHING OR BUILDING ZONE IF THE PROPER PBOT UTILITY PERMIT HAS BEEN SECURED.
- 19. FULL HEIGHT CURBS SHALL BE CONSTRUCTED AT ALL LOCATIONS UNLESS A NEW DRIVEWAY IS CONSTRUCTED AT THE SAME TIME AS THE
- 20. ALL SIDEWALK CONTRACTION JOINTS SHALL BE PER SECTION 00759.49 "CONTRACTION JOINTS" OF THE STANDARD CONSTRUCTION SPECIFICATION AND CITY STANDARD DWG P-551.
- 21. NO FUTURE DRIVEWAYS SHALL BE CONSTRUCTED UNLESS THERE IS A BUILDING PERMIT ISSUED FOR AN ON-SITE PARKING SPACE, OR
- 22. CONTRACTOR MAY USE CEMENT OR ASPHALT CONCRETE FROM THE PRE-APPROVED MIX DESIGNS LIST IF AVAILABLE. IF NOT, THE CONTRACTOR WILL NEED TO SUBMIT A MIX DESIGN FOR APPROVAL.
- 23. USE ONLY APPROVED DETECTABLE WARNING DEVICES FROM THE CITY'S CONSTRUCTION PRODUCTS LIST (CPL).

24. ALL DRIVEWAYS ARE REQURIED TO HAVE A MINIMUM OF 3 FEET OF HARD SURFACING BEHIND SSIDEWALK (SEE STD DWG P-536)

TRAFFIC AND PARKING CONTROL

- 28. THE CONTRACTOR SHALL HAVE ACQUIRED AN APPROVED TEMPORARY TRAFFIC CONTROL PLAN (TTCP) PRIOR TO CLOSURE OF ANY STREET OR SIDEWALK. THE TTCP IS PART OF THE STREET/SIDEWALK CLOSURE PERMIT AND IS ACQUIRED FROM THE PERMIT CENTER LOCATED AT 1900 SW 4TH AVENUE. PROVIDE THE STREET INSPECTOR A COPY (PAPER OR ELECTRONIC) OF THE TTCP. CHANGES TO THE TTCP WILL REQUIRE A REVISION TO THE STREET/SIDEWALK CLOSURE PERMIT.
- 29. THE CONTRACTOR SHALL NOT REMOVE OR COVER ANY TRAFFIC CONTROL SIGNS, PAVEMENT MARKINGS, OR BARRICADES THAT ARE NOT IDENTIFIED ON THE APPROVED TEMPORARY TRAFFIC CONTROL PLAN.
- 30. THE CONTRACTOR SHALL MAINTAIN ALL NECESSARY TEMPORARY TRAFFIC CONTROL DEVICES (INCLUDING BUT NOT LIMITED TO THE FOLLOWING - SIGNS, PAVEMENT MARKINGS, AND BARRICADES) UNTIL THE PERMANENT TRAFFIC CONTROL DEVICES ARE INSTALLED.
- 31. WHEN WORK INTERFERES WITH THE OPERATION OF A TRIMET BUS OR BUS STOP, CONTACT TRIMET (RUSS BONAHAM OR KELLEY BURNES, TRI-MET OPERATIONS AT 503-962-4949) A MINIMUM OF 10 CALENDAR DAYS PRIOR TO CLOSING OR DISRUPTING TRIMET'S OPERATION.
- 32. THE CONTRACTOR SHALL INSTALL OR REINSTALL ALL PERMANENT TRAFFIC CONTROL SIGNING, CURB AND PAVEMENT MARKINGS, AND BARRICADES.
- 33. THE CONTRACTOR SHALL SUBMIT MATERIALS LIST FOR APPROVAL BY CONSTRUCTION MANAGER AND NOTIFY THE TRAFFIC ENGINEER JENNIE TOWER AT 503-823-7738 10 CALENDAR DAYS PRIOR TO INSTALLING PERMANENT TRAFFIC CONTROL SIGNING, CURB AND PAVEMENT MARKINGS, AND BARRICADES,
- 34. ALL NEW SIGN MATERIALS SHALL COMPLY WITH SECTION 2910 OF THE CITY OF PORTLAND STANDARD CONSTRUCTION SPECIFICATIONS. ALL SIGNS SHALL BE TYPE III OR IV BACKGROUND SHEETING ON ALUMINUM SIGN BLANKS. SIGN TYPES FOR EACH SIGN, AS SPECIFIED IN SECTION 2910.02, ARE NOTED IN THE PLANS.
- 35. SIGNS AND SIGN POSTS REMOVED BY THE PERMITTEE OR ITS AGENT SHALL BE DELIVERED TO THE BUREAU OF MAINTENANCE, ALBINA YARD. CONTACT JIM BUHLER AT 503-823-4056 TO ARRANGE A DELIVERY TIME. REMOVE ALL SIGNS, CONCRETE AND DEBRIS FROM THE POST PRIOR TO DELIVERY.
- 36. ALL CURB AND PAVEMENT MARKING MATERIALS SHALL BE ON THE CITY'S CONSTRUCTION PRODUCTS LIST (CPL) OR THE STATE'S QUALIFIED PRODUCTS LIST (QPL). ALL MATERIALS SHALL BE INSTALLED IN CONFORMANCE WITH THE MANUFACTURERS APPROVED APPLICATION PROCEDURE
- 37. ALL LONGITUDINAL LINE WORK TO BE METHOD B (NON-PROFILE) EXTRUDED THERMOPLASTIC, 120 MILS THICK
- 38. ALL TRANSVERSE LINE WORK, LEGENDS, SYMBOLS, AND ARROWS SHALL BE TYPE 'B-HS' PERFORMED THERMOPLASTIC. BIKE LANE STENCILS, GREEN BICYCLE LANE MARKINGS, AND BIKE PATH RAILROAD MARKINGS SHALL BE 90 MILS THICK. ALL OTHER TRANSVERSE PAVEMENT MARKINGS SHALL BE 120-125 MILS THICK.
- 39. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY CURB OR PAVEMENT MARKINGS DAMAGED OR REMOVED DUE TO CONTRACTOR'S OPERATION.
- 40. IN METERED DISTRICTS, ALL PARKING CONTROL SIGNING, METERS, POSTS AND PAVEMENT STRIPING & MARKINGS WILL BE INSTALLED BY CITY FORCES. NOTIFY PARKING CONTROL: DONOVAN GRABOWSKI, PHONE NO. 503-823-0487. ALL COSTS ASSOCIATED WITH THIS WORK WILL BE CHARGED TO THE PERMIT. PARKING SIGNS CUTSIDE OF THE METERED DISTIRCITS WILL BE INSTALLED BY THE CONTRACTOR. CONTACT PARKING CONTROL. 10 WORKING DAYS PRIOR TO INSTALLATION TO LOCATE EXACT SIGN LOCATIONS.

TREES

- 43. ALL TREE REMOVAL SHALL COMPLY WITH THE FEDERAL MIGRATORY BIRD TREATY ACT. SEE THE SPECIAL PROVISIONS FOR REQUIREMENTS PRIOR TO CUTTING OF ANY TREE.
- 44. ALL GROUND DISTURBANCES NEAR TREES REQUIRES ROOT INSPECTION II CONTACT URBAN FORESTRY (LUKE MILLER AT 503-823-4025) PRIOR TO ALL EXCAVATIONS ADJACENT TO TREES. CONSULTATION WITH THE URBAN FORESTER IS REQUIRED BEFORE CUTTING OF ROOTS.
- FOR ALTERNATE TREE SPECIES OR ALTERNATE TREE PLANTING LOCATION APPROVAL (PRIOR TO PLANTING), CONTACT LUKE MILLER AT 503-823-4025.

EROSION CONTROL

47. EROSION/SEDIMENTATION CONTROL (ESC) IS REQUIRED ON THIS PROJECT. IMPLEMENTATION OF THE ESC AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE PERMITTEE OR IT'S AGENT UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED. THE PERMITTEE OR IT'S AGENT SHALL PROVIDE INLET PROTECTION TO DOWNSTREAM INLETS FROM THE SITE PER THE EROSION CONTROL MANUAL [MARCH 2008] CATCH BASIN AND STORM DRAIN INLET PROTECTION SHALL BE INSTALLED PER DETAIL DRAWINGS 4.3-B AND 4.3-G.

7/21/2016

RTLAND APPROVAL: EMERIC RBS PORTLAND Design **BUREAU OF TRANSPORTATION** OJECT COMPLET RBS PRINCIPAL ENGINEER REG. PROF. ENGR. 51704PE CKED E 0 STEVE NOVICK COMMISSIONER RBS HECKED I BOT CITY ENGINEER REG. PROF. ENGR. 51538PE STEVE TOWNSEN, P.E. CITY ENGINEER TEL: (503) 515-5528 FAX: (503) 639-9592 NO. DATE DESCRIPTIO APPD 1851 FINAL MAP DATA REVISIONS

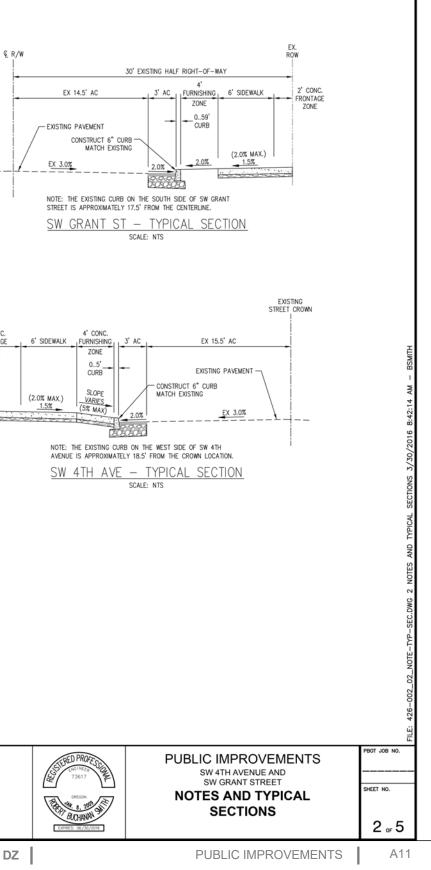
2211 SW 4th Avenue, Portland Oregon

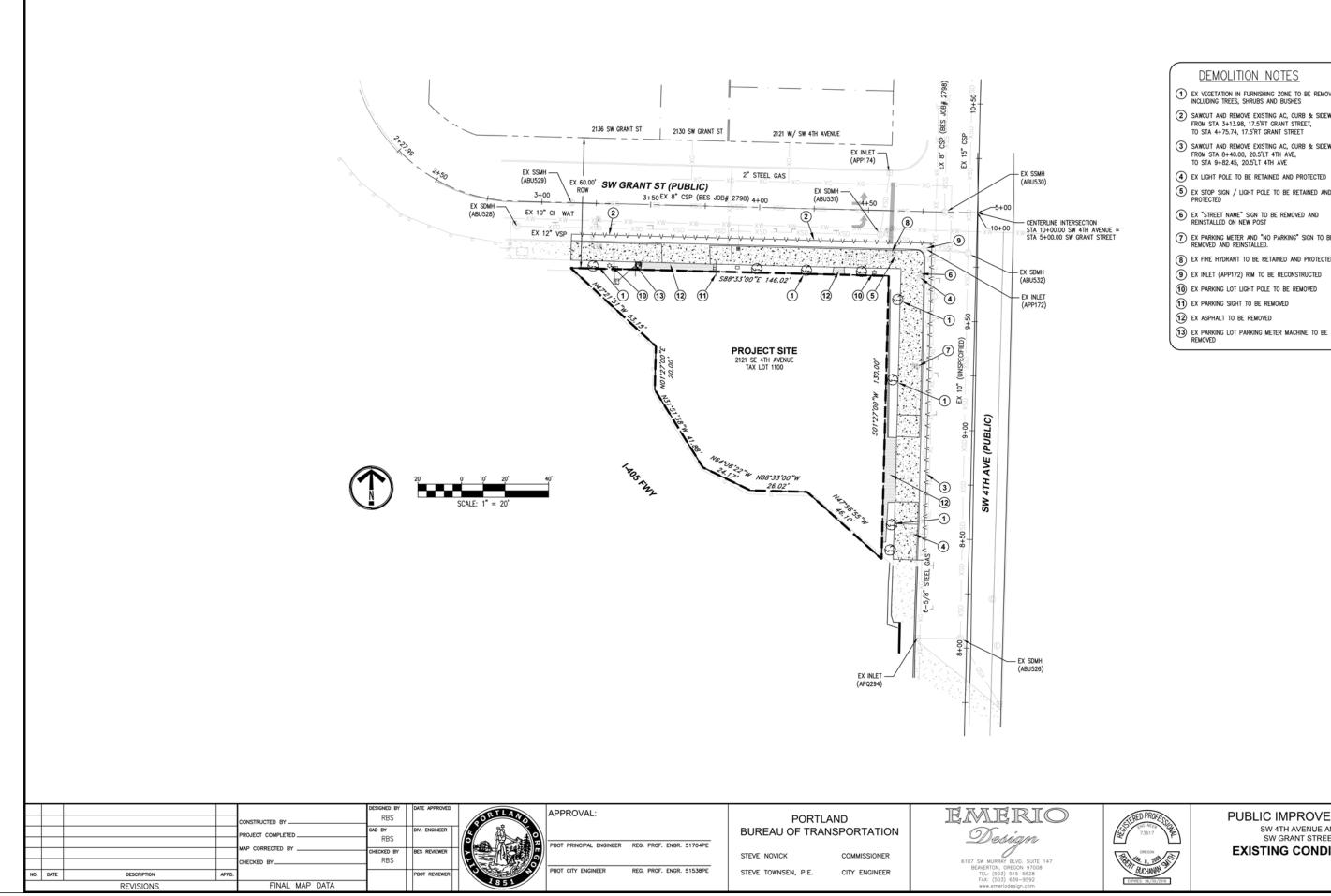
FX

6' CONC. FRONTAGE

ZONE

the second state





7/21/2016 2211 SW 4th Avenue, Portland Oregon

Design Review Presentation LU 16-129367 DZ

DEMOLITION NOTES
(1) EX VEGETATION IN FURNISHING ZONE TO BE REMOVE, INCLUDING TREES, SHRUBS AND BUSHES
(2) SAWCUT AND REMOVE EXISTING AC, CURB & SIDEWALK FROM STA 3+13.98, 17.5'RT GRANT STREET, TO STA 4+75.74, 17.5'RT GRANT STREET
3 SAWCUT AND REMOVE EXISTING AC, CURB & SIDEWALK FROM STA 8+40.00, 20.5'LT 4TH AVE, TO STA 9+82.45, 20.5'LT 4TH AVE
4 EX LIGHT POLE TO BE RETAINED AND PROTECTED
5 EX STOP SIGN / LIGHT POLE TO BE RETAINED AND PROTECTED
6 EX "STREET NAME" SIGN TO BE REMOVED AND REINSTALLED ON NEW POST
(7) EX PARKING METER AND "NO PARKING" SIGN TO BE REMOVED AND REINSTALLED.
(8) EX FIRE HYDRANT TO BE RETAINED AND PROTECTED
9 EX INLET (APP172) RIM TO BE RECONSTRUCTED
(1) EX PARKING LOT LIGHT POLE TO BE REMOVED
1 EX PARKING SIGHT TO BE REMOVED
(12) EX ASPHALT TO BE REMOVED

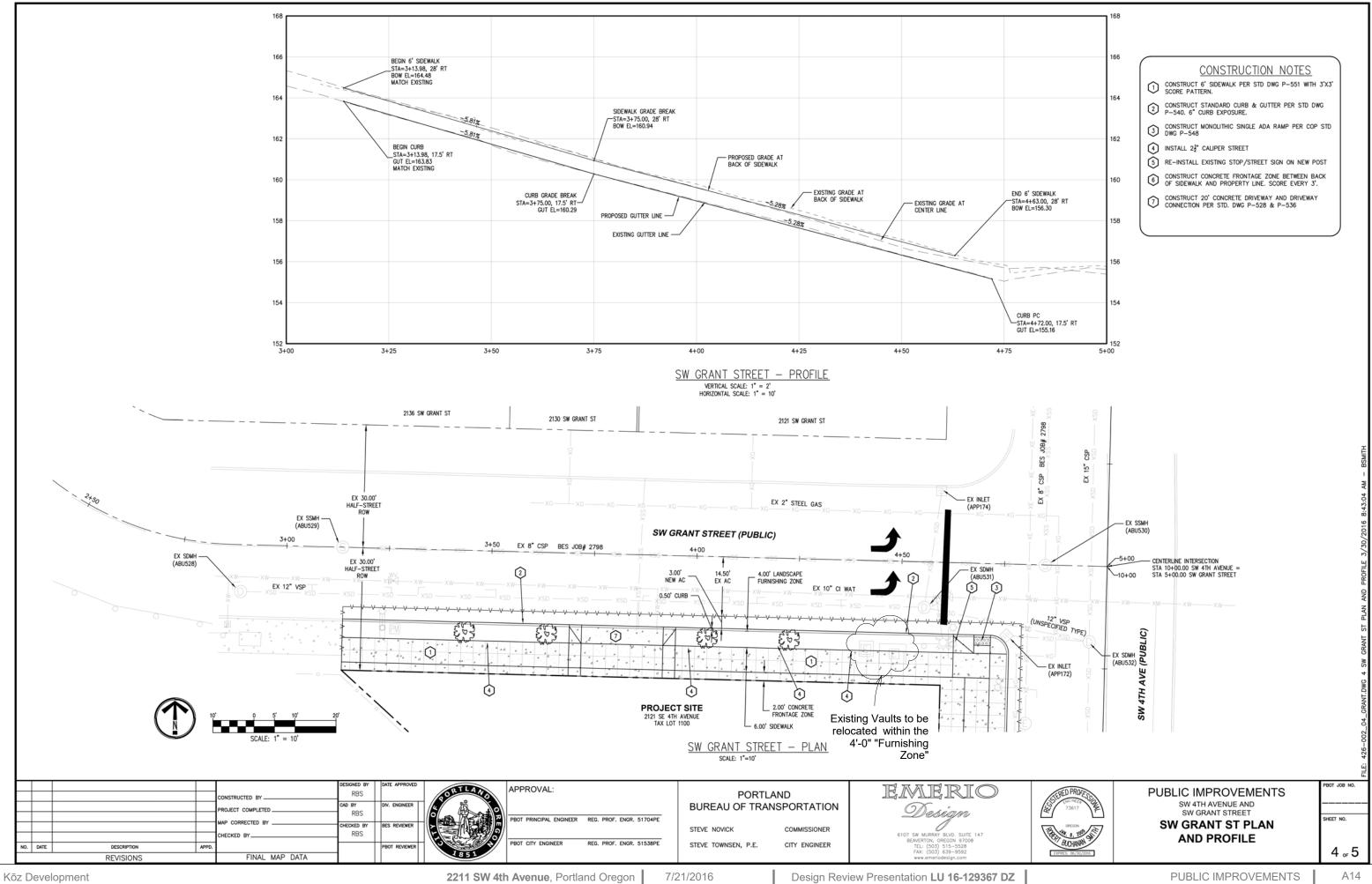
BOT JOB NO

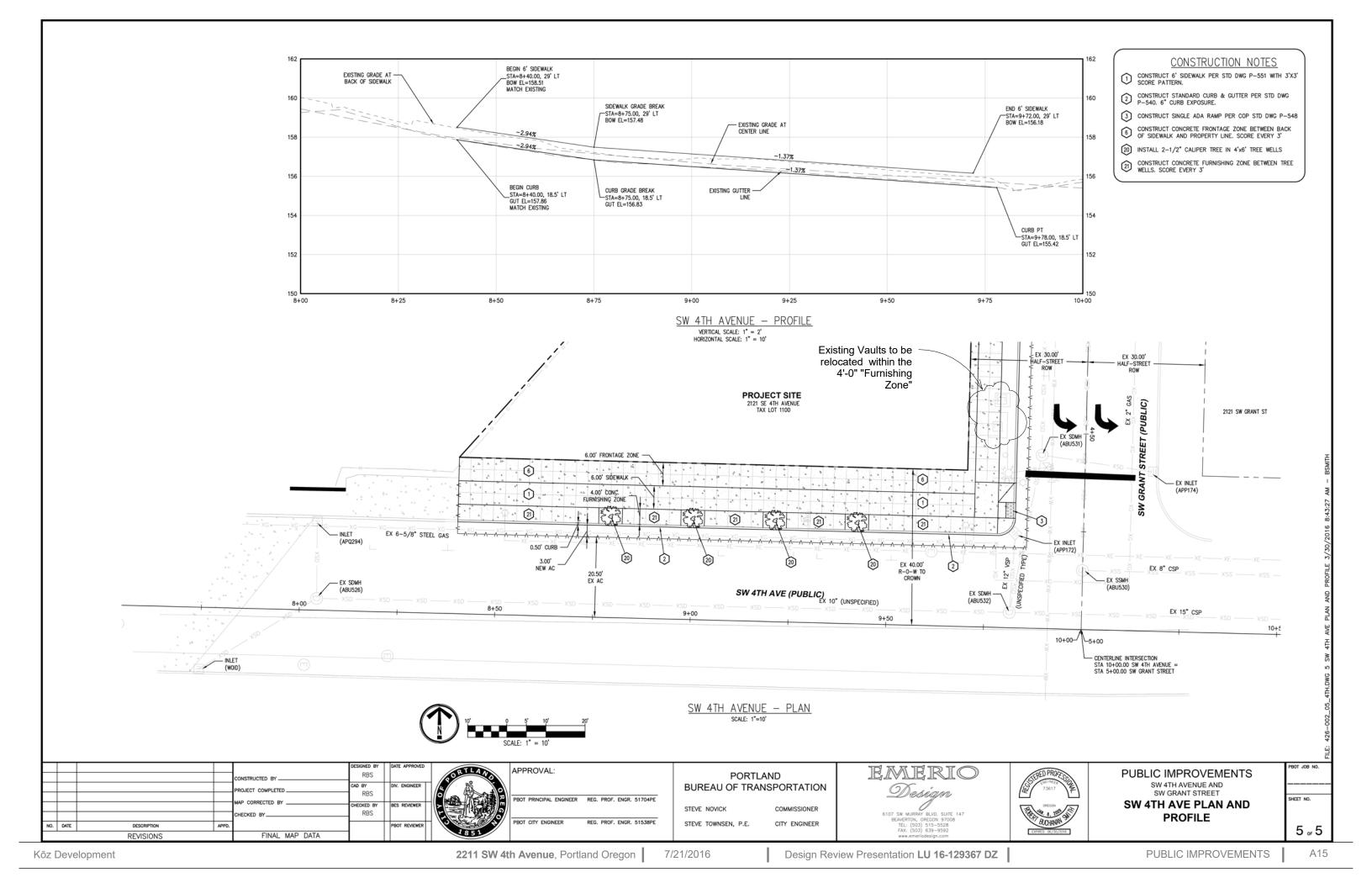
PUBLIC IMPROVEMENTS SW 4TH AVENUE AND SW GRANT STREET **EXISTING CONDITIONS**

SHEET NO.

PUBLIC IMPROVEMENTS

3 ₀₅ 5 A12





Comments:

1.) Garage access: Queuing for cars out of the parking garage requires the gate to be located 20' from the sidewalk.

2.) Vault location.

3.) Loading zone requirements, type A or B

Summary of changes:

1.) The parking garage gate is not intended for daily use, and would remain in the open position while the parking area is in use. The use of a gate would be to provide security when the parking area is closed. A warning system is planned for the single entry/exit.

2.) Utility vaults serving the project are planned to be located at grade within the covered parking area. In the event a utility vault cannot be located or relocated onto the site, the vault shall be located within the 4' furnishing zone per city standards.

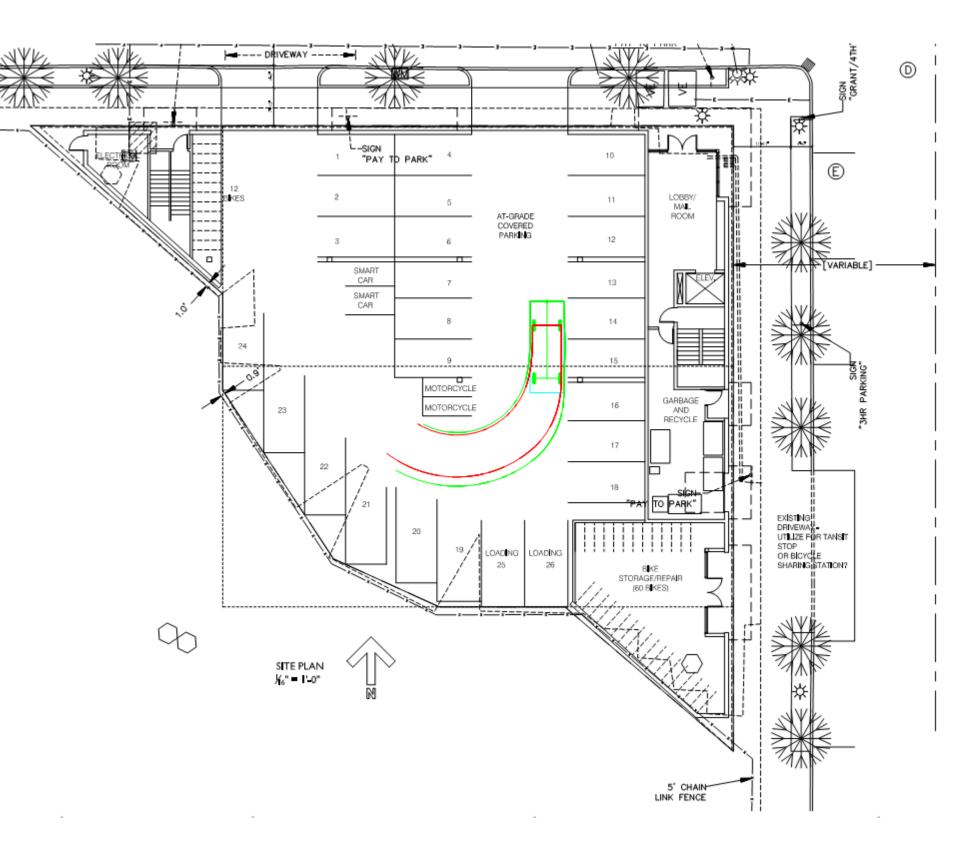
3.) Loading and unloading is proposed to be located within the covered parking area, loading activities would either temporarily utilize the on-site parking or use the drive isle as needed. A standard B loading zone 18' long, 9' deep and 10' high would fit in the proposed parking garage.

Summary of changes:

1.) Reduction of driveway access to parking garage.

2.) Reduction of main level parking, increase of "active use" along 4th and Grant streets with increase of storefront glazing and building function along 4th and Grant.

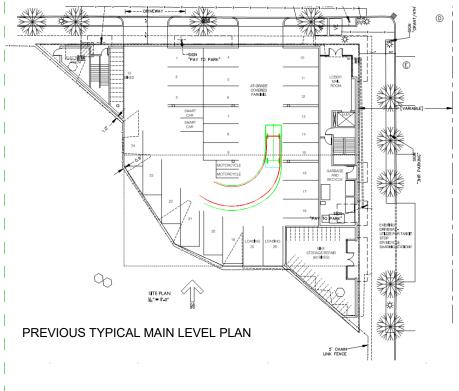
3.) Wall angle and eroded corner of the main floor residential lobby emphasizes the pedestrian transition zone.

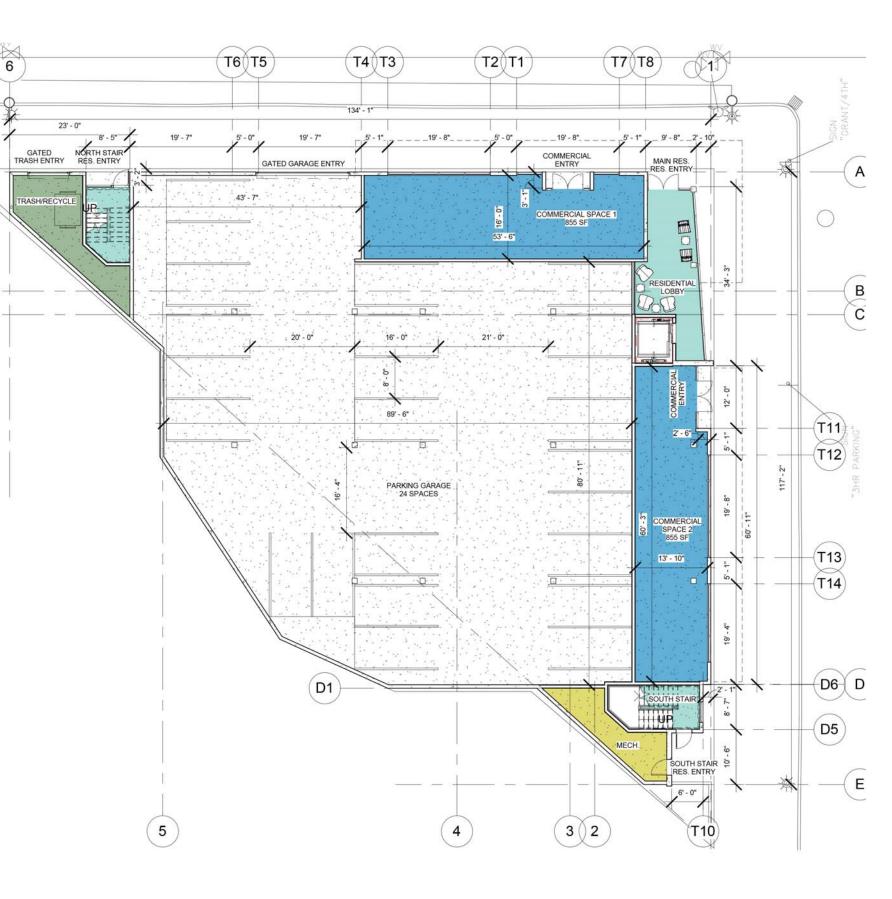


PREVIOUS TYPICAL SITE PLAN

- Comments:
- Reduce access to parking garage to "one garage opening".
 Increase ground floor "active use", reduce "extensive blank walls". 3.) Develop transition zones through site.

- Summary of changes:
 1.) Reduction of driveway access to parking garage.
 2.) Reduction of main level parking, increase of "active use" along 4th and Grant streets with increase of storefront glazing and building function along 4th and Grant.
- 3.) Wall angle and eroded corner of the main floor residential lobby emphasizes the pedestrian transition zone.



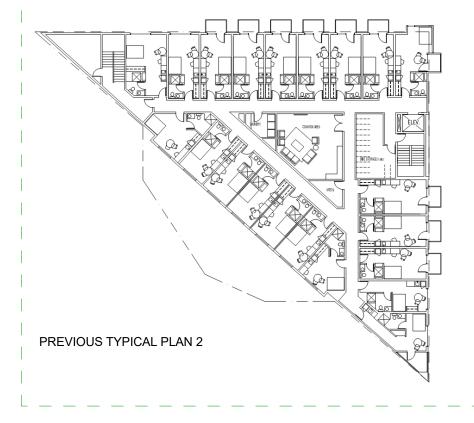


PREVIOUS TYPICAL MAIN LEVEL PLAN

Comments:

- Massing Scale and Form reduction in bulk.
 Outdoor space as a destination.
 Balconies shall have a projected max. encroachment of 4'-0".

- Summary of changes:
 1.) Revised shape of building to reduce building mass.
 2.) Addition of second level exterior courtyard above grade level parking.
 3.) Projection of balconies at 2nd level and above shall be less than 4;-0"
 4.) Glazing wall and elevator lobby orientation.
 5.) Configuration of dwelling unit interior to include bike storage.

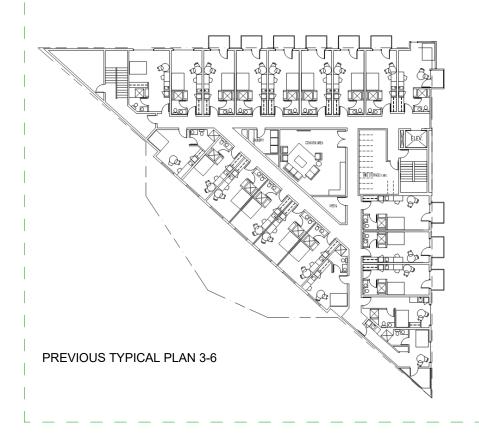




Comments:

- Massing Scale and Form reduction in bulk.
 Balconies shall have a projected max. encroachment of 4'-0".

- Summary of changes:
 1.) Revised shape of building to reduce building mass.
 2.) Projection of balconies at 2nd level and above shall be less than 4;-0"
 3.) Glazing wall and elevator lobby orientation.
 4.) Configuration of dwelling unit interior to include bike storage.











STUDY ELEVATION

PREVIOUS APPLICATION ELEVATION

PREVIOUS CONCEPT PLAN PRE-APPLICATION [EA 15-114048] DESIGN ADVICE REQUEST [15-153663]

Comments:

1.) Massing Scale and Form - reduction in bulk.

2.) Materials: Suggestion to explore masonry based maerial to replace the metal as a primary cladding system.

3.) Rain Garden Planter on Building Wall.

- 4.) Ground level board form design Better detailing is required.
- 5.) Vents and Louvers. Not clear how these are handled.
- 6.) Missing pedestrian amenities.

7.) Active corners.

8.) Parking lot access.

Summary of changes:

1.) Revised shape of building to reduce building mass, shifts in material and facade help to reduce mass.

2.) The metal siding has been exchanged with masonary brick to become the primary cladding material, while the vertical ribbed metal becomes the accent material.

3.) The hanging rain gardens on the facade have been removed from the project.

4.) Board form concrete shall be 3" uniform horizontal board form.

5.) All vents and louvers for the residential floors are to be terminated through the roof to minimize penitrations in the facade. The exception to this rule would be free air vents within the VPI vinyl windows which would be intgrated into the window and have very low visibility. Grade level vents and louvers are to be located in the spandral glazing above the canopy.
6.) Canopies, seating, and site amenities have been added and thoughtfully

placed in a rhythm that compliments the architecture within the overall facade and at the pedestrian level.

7.) Active uses are not required within this zone, however, to the extent possible the grade level facades have been maximized for active uses along SW 4th and SW Grant.

8.) Parking lot access has been reduced to one point of access.





PREVIOUS APPLICATION ELEVATION

STUDY ELEVATION

STUDY ELEVATION

PREVIOUS CONCEPT PLAN PRE-APPLICATION [EA 15-114048] DESIGN ADVICE REQUEST [15-153663]

Comments:

1.) Massing Scale and Form - reduction in bulk.

2.) Materials: Suggestion to explore masonry based maerial to replace the metal as a primary cladding system.

- 3.) Rain Garden Planter on Building Wall.
 4.) Ground level board form design Better detailing is required.
 5.) Vents and Louvers. Not clear how these are handled.

6.) Missing pedestrian amenities.

7.) Active corners.

Summary of changes:

1.) Revised shape of building to reduce building mass, shifts in material and facade help to reduce mass.

2.) The metal siding has been exchanged with masonary brick to become the primary cladding material, while the vertical ribbed metal becomes the accent material.

3.) The hanging rain gardens on the facade have been removed from the project.

4.) Board form concrete shall be 3" uniform horizontal board form.

5.) All vents and louvers for the residential floors are to be terminated through the roof to minimize penitrations in the facade. The exception to this rule would be free air vents within the VPI vinyl windows which would be intgrated into the window and have very low visibility. Grade level vents and louvers are to be located in the spandral glazing above the canopy.

6.) Canopies, seating, and site amenities have been added and thoughtfully placed in a rhythm that compliments the architecture within the overall facade and at the pedestrian level.

7.) Active uses are not required within this zone, however, to the extent possible the grade level facades have been maximized for active uses along SW 4th and SW Grant.



EAST ELEVATION STUDIES A21



PREVIOUS APPLICATION ELEVATION

PREVIOUS CONCEPT PLAN PRE-APPLICATION [EA 15-114048] DESIGN ADVICE REQUEST [15-153663]

Comments:

1.) Massing Scale and Form - reduction in bulk.

2.) Materials: Suggestion to explore masonry based maerial to replace the metal as a primary cladding system.

3.) Vents and Louvers. Not clear how these are handled.4.) South elevation treated like "back of house".

Summary of changes: 1.) Revised shape of building to reduce building mass, shifts in material and facade help to reduce mass.

2.) The metal siding has been exchanged with masonary brick to become the

3.) All vents and louvers for the residential floors are to be terminated through the roof to minimize penitrations in the facade. The exception to this rule would be free air vents within the VPI vinyl windows which would be intgrated into the window and have very low visibility. Grade level vents and louvers are to be located in the spandral glazing above the canopy. and at the pedestrian level.

4.) The South and West elevations, facing I-405, have been redesigned to provide more intrest and architectural features. The shape of the building respondes to its triangular site and has been optimized to reduce the overall mass from the former design.



SOUTH ELEVATION STUDIES A22



PREVIOUS APPLICATION ELEVATION

STUDY ELEVATION

STUDY ELEVATION

PREVIOUS CONCEPT PLAN PRE-APPLICATION [EA 15-114048] DESIGN ADVICE REQUEST [15-153663]

Comments:

1.) Massing Scale and Form - reduction in bulk.

2.) Materials: Suggestion to explore masonry based maerial to replace the metal as a primary cladding system.

3.) Vents and Louvers. Not clear how these are handled.4.) South elevation treated like "back of house".

Summary of changes:

1.) Revised shape of building to reduce building mass, shifts in material and facade help to reduce mass.

2.) The metal siding has been exchanged with masonary brick to become the

3.) All vents and louvers for the residential floors are to be terminated through the roof to minimize penitrations in the facade. The exception to this rule would be free air vents within the VPI vinyl windows which would be intgrated into the window and have very low visibility. Grade level vents and louvers are to be located in the spandral glazing above the canopy. and at the pedestrian level.

4.) The South and West elevations, facing I-405, have been redesigned to provide more intrest and architectural features. The shape of the building respondes to its triangular site and has been optimized to reduce the overall mass from the former design.











PREVIOUS APPLICATION PERSPECTIVE









PERSPECTIVE STUDIES A24









PREVIOUS APPLICATION PERSPECTIVE





PERSPECTIVE STUDIES A25

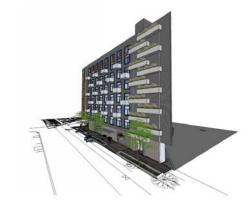




STUDY MODEL VIEWS



PREVIOUS APPLICATION PERSPECTIVE



PREVIOUS APPLICATION PERSPECTIVE





PERSPECTIVE STUDIES

A26









PERSPECTIVE STUDIES A27

DESCRIPTION

The Impact Elite family of wall luminaires is the ideal complement to site design. Incorporating modular LightBAR[™] technology, the Impact Elite luminaire provides outstanding uniformity and energy-conscious illumination. Combined with a rugged construction, the Impact Elite luminaire is the ideal facade and security luminaire for zones surrounding schools, office complexes, apartments and recreational facilities. UL/cUL listed for wet locations.

SPECIFICATION FEATURES

Construction

Heavy-wall, die-cast aluminum housing and removable hinged door frame for precise tolerance control and repeatability. Hinged door inset for clean mating with housing surface and secured via two captive fasteners. Optional tamper-resistant Torx[™] head fasteners offer vandal resistant access to the electrical chamber.

Optics

DIMENSIONS

- 18" [457mm]

-16-1/2" [419mm]-

HOOK-N-LOCK MOUNTING

Cylinder

Trapezoid

Choice of six patented, highefficiency AccuLED Optics™ distributions. Optics are precisely designed to shape the light output, maximizing efficiency and application spacing. AccuLED Optics technology creates consistent distributions with the scalability to meet customized application requirements. Offered Standard in 4000K (+/- 275K) CCT and minimum 70 CRI. Optional 3000K CCT, 5000K CCT and 5700K CCT.

178mn

178mm

-9" [229mm]

9" [229mm]-

Electrical

LED drivers mount to die-cast aluminum back housing for optimal heat sinking, operation efficacy, and prolonged life. Standard drivers feature electronic universal voltage (120-277V 50/60Hz), 347V 60Hz or 480V 60Hz operation, greater than 0.9 power factor, less than 20% harmonic distortion, and are suitable for operation in -40°C to 40°C ambient environments. All fixtures are shipped standard and differential - mode surge protection. LightBARs feature an IP66 enclosure rating and maintain greater than 95% lumen maintenance at 60,000 hours per IESNA TM-21. Emergency egress options for -20°C ambient environments and occupancy sensor available.

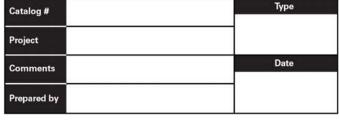
Quarter Sphere

Wedge

-18" [457mm

-16-1/2" [419mm]

McGraw-Edison



Mounting

Gasketed and zinc plated rigid steel mounting attachment fits directly to 4" j-box or wall with the Impact Elite "Hook-N-Lock" mechanism for quick installation. Secured with two captive corrosion resistant black oxide coated allen head set screws concealed but accessible from bottom of fixture.

Finish

Cast components finished in a five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available. Consult the McGraw-Edison Architectural Colors brochure for the complete selection.

Warranty Five-year warranty.

1229mm

8"

[203mm

9" [229mm]-

-8-1/4" [210mm]-

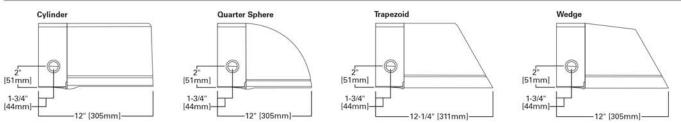








THRUWAY BACK BOX



POWER AND LUMENS BY BAR COUNT

	(1:-LADAD-	E01	E02	F01	F02	1.000	Ambien			
Number of LightBARs		21 LED LightBAR		7 LED L	7 LED LightBAR		Temperature			
Drive Curr	ent	350	mA	1	1A		25°C	_		
Power	100.07711				5011/		40°C			
(Watts)	120-277V	25W	47W	26W	50W	50°C				
Current	120V	0.22	0.40	0.22	0.42	• Per	IESNA T	M-		
(A)	277V	0.10	0.18	0.10	0.19		¹⁰¹ Г	_		
Power (Watts)	347V or 480V	31W	52W	32W	55W		100	-		
Current	347V	0.11	0.16	0.11	0.17		99	_		
(A)	480V	0.16	0.18	0.16	0.18	÷	98			
Optics						rcent	30			
BL2	Lumens	2,738	5,476	2,260	4,521	e (Pe	97			
BLZ	Bug Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	ance	Lumen Maintenance (Percent)	ance	96	_
BL3	Lumens	2,702	5,405	2,231	4,462	nten	95			
BL3	Bug Rating	B1-U0-G1	B1-U0-G2	B1-U0-G1	B1-U0-G1	Mai	35			
DI 4	Lumens	2,613	5,225	2,157	4,313	men	94			
BL4	Bug Rating	B1-U0-G1	B1-U0-G2	B1-U0-G1	B1-U0-G1	Ē	93	_		
0711	Lumens	2,785	5,570	2,299	4,598					
GZW	Bug Rating	B2-U0-G2	B3-U0-G3	B1-U0-G1	B2-U0-G2		92			
01.01.01.0	Lumens	2,435	4,869	2,010	4,020		91	-		
SLR/SLL	Bug Rating	B1-U0-G1	B1-U0-G2	B1-U0-G1	B1-U0-G2		90 L	_		

0

ORDERING INFORMATION

Product Family 1	Number of LightBARs 2.3	Lamp Type	Voltage	Distribution	Color ⁵
ISC=Impact Elite LED Small Cylinder ISS=Impact Elite LED Small Quarter Sphere IST=Impact Elite LED Small Trapezoid ISW=Impact Elite LED Small Wedge	E01=(1) 21 LED LightBAR E02=(2) 21 LED LightBARs F01=(1) 7 LED LightBAR F02=(2) 7 LED LightBARs	LED=Solid State Light Emitting Diodes	E1=Electronic (120-277V) 347=347V 480=480V ⁴	BL2=Type II w/Back Light Control BL3=Type III w/Back Light Control BL4=Type IV w/Back Light Control GZW=Wall Grazer Wide SLL=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallie WH=White
Options (Add as Suffix)			*,	Accessories (Order Separately) "	
7030-70 CRI / 3000K CCT ⁷ 7050-70 CRI / 5000K CCT ⁷ 7060-70 CRI / 5000K CCT ⁷ 8030-80 CRI / 3000K CCT ⁷ P=Button Type Photocontrol (Available in 12 OSB-Occupancy Sensor with Back Box (Specifi CWB-XX=Battery Pack with Back Box (Specifi CWB-XX=Cold Weather Battery Pack with Ba DIM=0-10V Dimming Drivers LCF=LightBAR Cover Plate Matches Housing ULG=Uplight Glow TR=Tamper Resistant Hardware	cify 120V or 277V) * / 120V or 277V) * ck Box (Specify 120V or 277V	TC 700		MA1254-XX=Thruway Back Box - Imp; MA1255-XX=Thruway Back Box - Imp; MA1256-XX=Thruway Back Box - Imp; MA1257-XX=Thruway Back Box - Imp;	act Elite Cylinder act Elite Quarter Sphere
IOTES: DesignLights Consortium [®] Qualified. Refer to www.d. Standard 4000K CCT and greater than 70 CRI. Light 2.1 LED LightBAR powered by 350mA and 7 LED Ligh Only for use with 4800 Wey systems. Per NEC, not fo Delta and Three Phase Corner Grounded Delta syster Custom and RAL color matching available upon requ Low-level output varies by bar count. Consult factory Extended lead times apply.	ARS for downlight use only. tBAR powered by 1A. ruse with ungrounded systems, im ns). est. Consult your lighting represent . Not available with 347V or 480V. A will be wired to sensor. Time dela	pedance grounded systems or lative at Eaton for more inform vailable with two bars (E02 or y factory setting 15-minutes. V Not available in all configura	corner grounded system lation. F02) only. Vhen ordered with PC op	tion, both bars are connected to photocontrol as pr	
Standard sensor lens covers 8' mounting height, 360 Specify 120V or 277V. LED standard integral battery 0. Specify 120V or 277V. LED cold weather integral bat	pack is rated for minimum operating		ates one bar for 90-minu	tes. Not available in all configurations or with OSB	
Standard sensor lens covers 8" mounting height, 360 Specify 120V or 277V. LED standard integral battery 0. Specify 120V or 277V. LED cold weather integral battery 1. Replace XX with color suffix. Eaton 1121 Highwa	back is rated for minimum operating tery pack is rated for minimum ope	rating temperature -4°F (-20°C	ates one bar for 90-minu	tes. Not available in all configurations or with OSB	



Kōz Development



7/21/2016



ISC/ISS/IST/ISW IMPACT ELITE LED

> 1 - 2 LightBARs DLC Solid State LED

> > WALL MOUNT LUMINAIRE

CERTIFICATION DATA

LM79 / LM80 Compliant IP66 LightBARs ISO 9001

ENERGY DATA

>0.9 Power Factor <20% Total Harmonic Distortion 120-277V/50 & 60Hz, 347V/60Hz, 480V/60Hz

40°C Ambient Temperature Rating

Electronic LED Driver

-40°C Minimum Temperature

Approximate Net Weight: 18 lbs. (8 kgs.)

UL/cUL Listed

DesignLights Consortium® Qualified*

SHIPPING DATA

TEAT *www.designlights.org

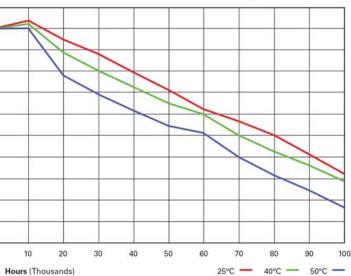
with 10kV/10kA common -

LUMEN MAINTENANCE

LUMEN MULTIPLIER

bient erature	25,000 Hours*	50,000 Hours*	60,000 Hours*	100,000 Hours	Theoretical L70 (Hours)
5°C	> 99%	> 97%	> 96%	> 93%	> 450,000
0°C	> 98%	> 97%	> 96%	> 92%	> 425,000
0°C	> 97%	> 96%	> 95%	> 91%	> 400,000

Lumen Multiplier Ambient Temperature 10°C 1.02 15°C 1.01 25°C 1.00 40°C 0.99



LIGHTING SPECIFICATIONS



4484-LA

4484-TA

4484-TCA

463-TA

466-TA

467-TA

496-LA

504-LA

506-LA

5106-LA

5106-TA

5106-TCA

555-WA

557-LA

575-LA

577-LA

554

556

577

4686



Steve Novick Commissioner

Leah Treat Director

Vault Model	Date Approved	Manufacturer	Bureau
1020	10/4/2001	Utility Vault Company	
1024-106	7/19/2000	Utility Vault Company	
233-LA	4/28/1997	Pipe Vault Company, Utility Vault Company	
25-TA	4/28/1997	Utility Vault Company	
253-TA	4/28/1997	Utility Vault Company	
264-TA	4/28/1997	Utility Vault Company	
3030-LA	4/28/1997	Utility Vault Company	
38-TA	4/28/1997	Utility Vault Company	
440-LA	4/28/1997	Utility Vault Company	
444-LA	4/28/1997	Utility Vault Company	
444-MFS	-	Pipe Vault Company	
446-LA	4/28/1997	Utility Vault Company	

Utility Vault Company

Utility Vault Company

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Pipe Vault Company

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Utility Vault Company

Utility Vault Company

Pipe Vault Company

Pipe Vault Company, Utility Vault Company

4/28/1997

4/28/1997

4/28/1997

8/29/2003

4/28/1997

4/28/1997

4/28/1997

4/28/1997

4/28/1997

4/28/1997

4/28/1997

4/28/1997

4/28/1997

4/28/1997

4/28/1997

4/28/1997

4/28/1997

Structurally Pre-Approved Vaults for Use in the Right-of-Way

612	-	Pipe Vault Company	
612-2 Peak Diversion Stormfilter	5/29/2014	Utility Vault Company	BES
612-LA	4/28/1997	Utility Vault Company	
612-7-TA	4/28/1997	Utility Vault Company	
612-7-TCA	4/28/1997	Utility Vault Company	
616-9-TA	4/28/1997	Utility Vault Company	
620-LA	4/28/1997	Utility Vault Company	
644-SECT-25LA	4/28/1997	Utility Vault Company	
660-LA	4/28/1997	Utility Vault Company	
687	4/28/1997	Utility Vault Company	PWB
687-LA	4/28/1997	Utility Vault Company	
687-SM	-	Utility Vault Company	BES
687-TA	4/28/1997	Utility Vault Company	
712	4/28/1997	Pipe Vault Company, Utility Vault Company	
776-LA	4/28/1997	Utility Vault Company	
810	4/28/1997	Utility Vault Company	PWB
810-TA	4/28/1997	Utility Vault Company	
814	-	Pipe Vault Company	PWB
814-LA	4/28/1997	Utility Vault Company	
814-TA	4/28/1997	Utility Vault Company	
816	4/28/1997	Utility Vault Company	
818	-	Pipe Vault Company	
818-LA	11/29/1999	Utility Vault Company	
818-TA	4/28/1997	Utility Vault Company	
824-Panel Vault	4/28/1997	Utility Vault Company	
990-TA	-	Utility Vault Company	
GTE-35	4/28/1997	Utility Vault Company	
Newbasis 3048 (sidewalk only)	8/6/2012	Utility Vault Company	
Synertech 1118	1/1/2001	Utility Vault Company	
Synertech 1212	1/2/2001	Utility Vault Company	
Synertech 1324	1/3/2001	Utility Vault Company	
Synertech 1730	1/4/2001	Utility Vault Company	
Synertech 2436	1/5/2001	Utility Vault Company	
Synertech 3048	1/6/2001	Utility Vault Company	
Synertech 3660	1/7/2001	Utility Vault Company	

1120 SW Fifth Avenue, Suite 800 • Portland, OR 97204 • 503-823-5185

FAX 503-823-7576 • TTY 503-823-6868 • www.portlandoregon.gov/transportation

An Equal Opportunity Employer To ensure equal access, the Portland Bureau of Transportation will make accommodations in full compliance with Title VI of the Civil Rights Act of 1964, the ADA Title II, and related statutes and regulations in all programs and activities. For accommodations and additional information, and complaints, contact the Title II and Title VI Coordinator at Room 1204, 1120 SW Fifth Ave., Portland, OR 97204, or by telephone 503-823-5185, City TTY 503-823-6868, or use Oregon Relay Service: 711.

PWB

308.2.07UTILITY ACCESS DOORS - SLIP RESISTANCE

Access doors shall be constructed of steel, aluminum, or concrete with an approved non-slip surface having a static coefficient of friction between 0.60 and 1.00 as determined by ASTM Designation C 1028-89. Access doors on inclined surfaces greater than 4% shall have a coefficient of friction between 0.80 and 1.00. Owners are responsible to maintain the non-slip characteristics of the access

door over its life in the sidewalk area.

Approved Metal Non-slip surfaces

Approved Metal Non-slip surfaces (July 2003)						
Product	COF	Manufacturer				
SlipNOT Grip Plate		SlipNOT Safety Flooring, W.S. Molnar				
Grade 1 (Fine)	0.95	Company, Detroit, MI				
Grade 2 (Medium) in Galvanized		Website: <u>www.slipnot.com</u>				
Steel or Aluminum	0.98					
Mebac Grade 3, Galvanized Steel	0.96	IKG Mebac Slip Resistant Metal				
Mebac Grade 2, Galvanized Steel		Surfaces, IKG Industries, Harsco				
Mebac Grade 2, Aluminum		Corporation, Clark, NJ				
EZ Weld, Aluminum	0.93	Website: www.ikgindustries.com				
Algrip 2000	0.80	Grating Pacific LLC, Seattle, WA				
		Website: www.gratingpacific.com				
ALCOA Aluminum		LW Products, Woodinville, WA				
Tread Plate - Lightly sandblasted	0.87	Website: <u>www.lwproducts.net/</u>				
Gratemaster Transformer Vault		Gratemaster Inc.				
Ventilation Grate used by PGE	0.70	PO Box 1040				
13.5" X 13.5" surface area		North Plains, OR 97133-1040				
Synertech Underground Products		Utility Vault Company				
Oldcastle Precast underground	0.88	Division of Oldcastle Precast, Inc.				
enclosures – Used by Qwest		Website: <u>www.oldcastle-precast.com</u>				
High Density Polymer Concrete		Wilsonville, OR [503.682.2844]				
Syracuse Castings Safety Sure		Utility Vault Company				
Grip Diamond Plate, Syracuse	0.94	Division of Oldcastle Precast, Inc.				
Castings, Cicero NY		Website: www.oldcastle-precast.com				
Used by BWW		Wilsonville, OR [503.682.2844]				
US Castings, Entiat, WA		Utility Vault Company				
332 Aluminum Cast Doors	0.98	Division of Oldcastle Precast, Inc.				
for Utility Vault Company	0.30	Website: www.oldcastle-precast.com				
for ounty vaut company		Website: <u>www.ofdcastle-precast.com</u> Wilsonville, OR [503.682.2844]				
		wilsonville, OK [505.082.2844]				
Qwest 30 Cast Iron Manhole cover		Utility Vault Company				
Qwest, Attn: Scott Miller	0.80	Division of Oldcastle Precast, Inc.				
8021 SW Capitol Hill Road / 110		Website: <u>www.oldcastle-precast.com</u>				
Portland, OR 97219		Wilsonville, OR [503.682.2844]				

Additional products may be approved by the City Engineer on an "approved equal" basis. COF - Coefficient of Friction (wet)

STRINSP/SPECS 98/308.2.07 UTILITY ACCESS DOORS - SLIP RESISTANCE

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