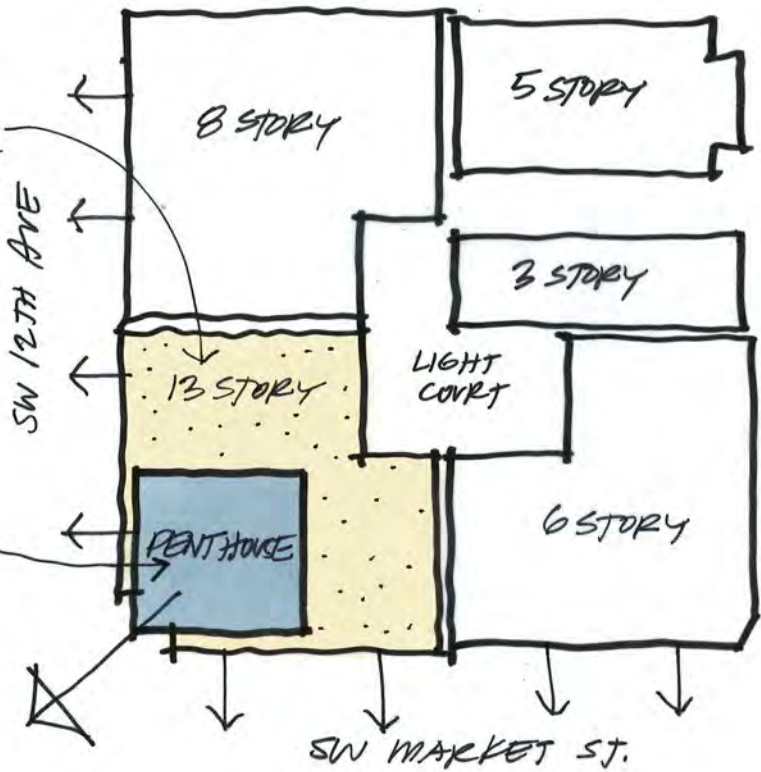
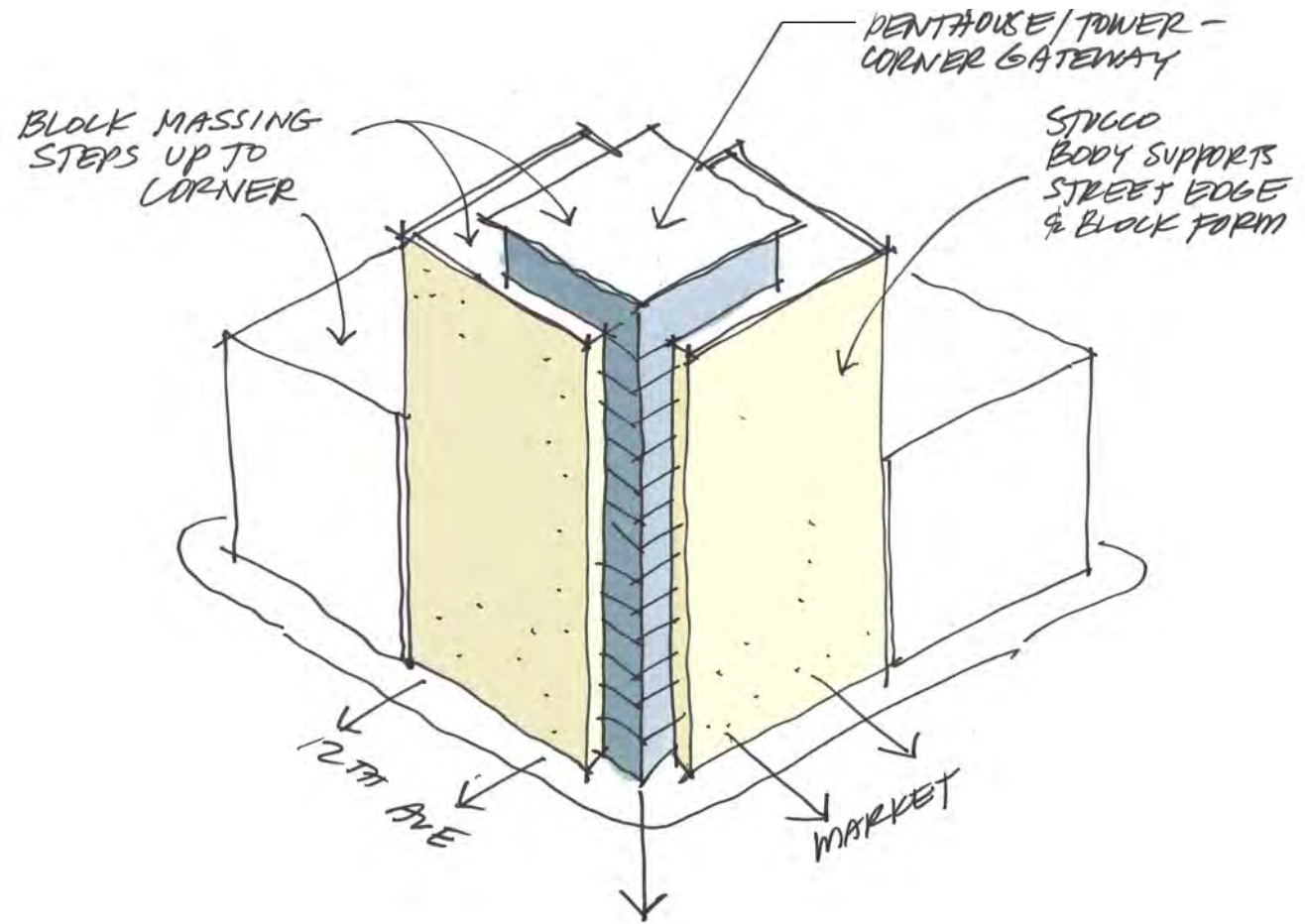




- BLOCK MASSING STEPS UP TO SW CORNER
- STUCCO BODY SUPPORTS STREET EDGE/FABRIC
- PENTHOUSE AT CORNER CREATES GATEWAY



BLOCK MASSING CONCEPT



BUILDING MASSING CONCEPT



STUCCO
 METAL PANEL
 VINYL WINDOWS, BLACK
 JULIET BALCONIES
 METAL LOUVER
 STUCCO
 VINYL WINDOWS, BLACK
 STUCCO
 STUCCO CORNICE
 JULIET BALCONIES
 STEEL AND GLASS CANOPY
 ALUMINUM STOREFRONT SYSTEM
 SW 12th AVE
 CAST IN PLACE CONCRETE PLINTH

STUCCO
 METAL GUARD RAIL SYSTEM
 METAL CORNICE
 STUCCO CORNICE
 STUCCO
 METAL LOUVER

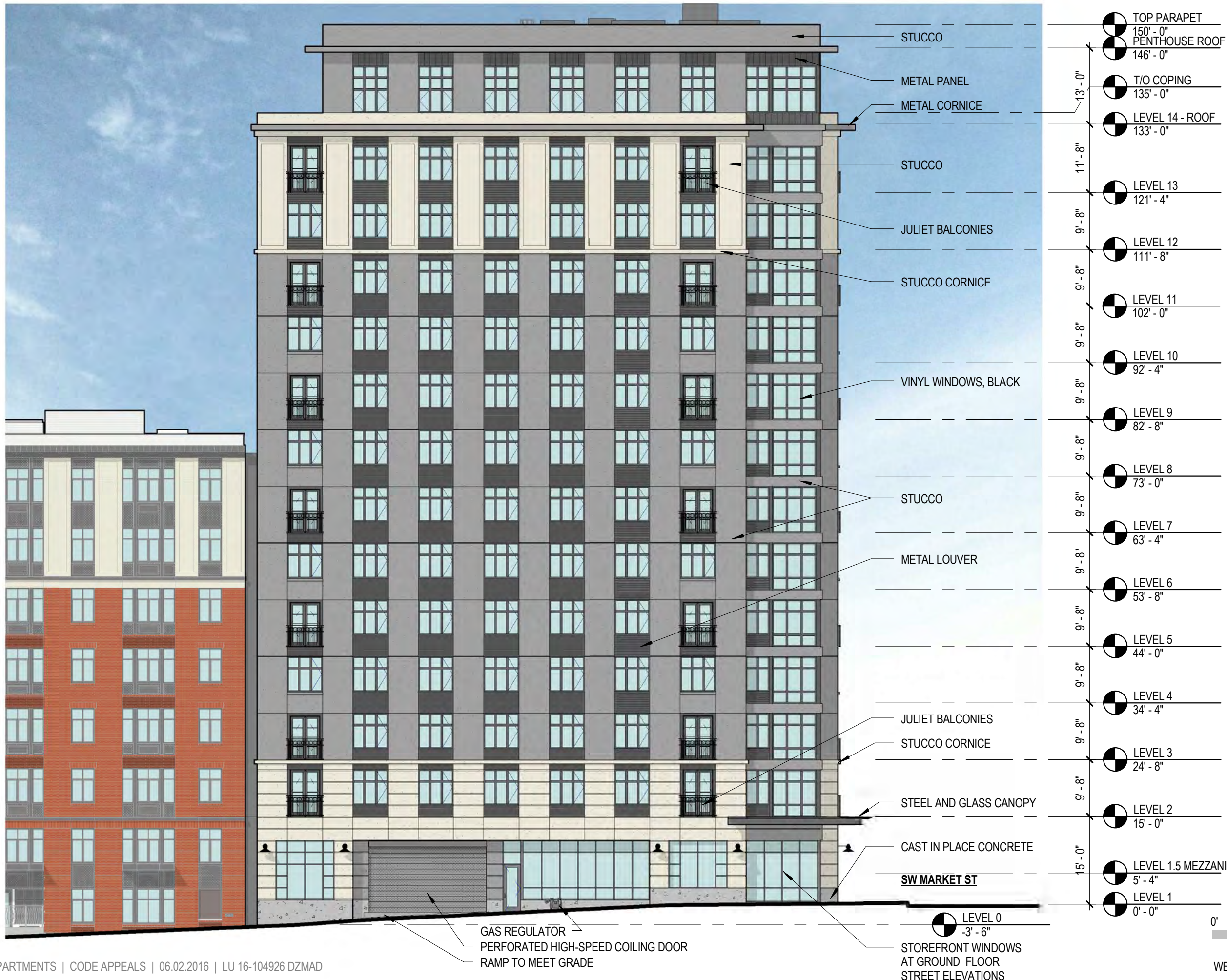
TOP PARAPET
150'-0"
 17'-0"
 LEVEL 14 - ROOF
133'-0"
 11'-8"
 LEVEL 13
121'-4"
 9'-8"
 LEVEL 12
111'-8"
 9'-8"
 LEVEL 11
102'-0"
 9'-8"
 LEVEL 10
92'-4"
 9'-8"
 LEVEL 9
82'-8"
 9'-8"
 LEVEL 8
73'-0"
 9'-8"
 LEVEL 7
63'-4"
 9'-8"
 LEVEL 6
53'-8"
 9'-8"
 LEVEL 5
44'-0"
 9'-8"
 LEVEL 4
34'-4"
 9'-8"
 LEVEL 3
24'-8"
 9'-8"
 LEVEL 2
15'-0"
 15'-0"
 LEVEL 1
0'-0"

ALUMINUM STOREFRONT SYSTEM



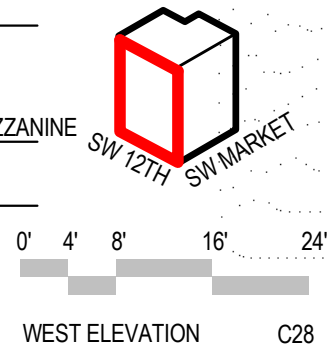
0' 4' 8' 16' 24'

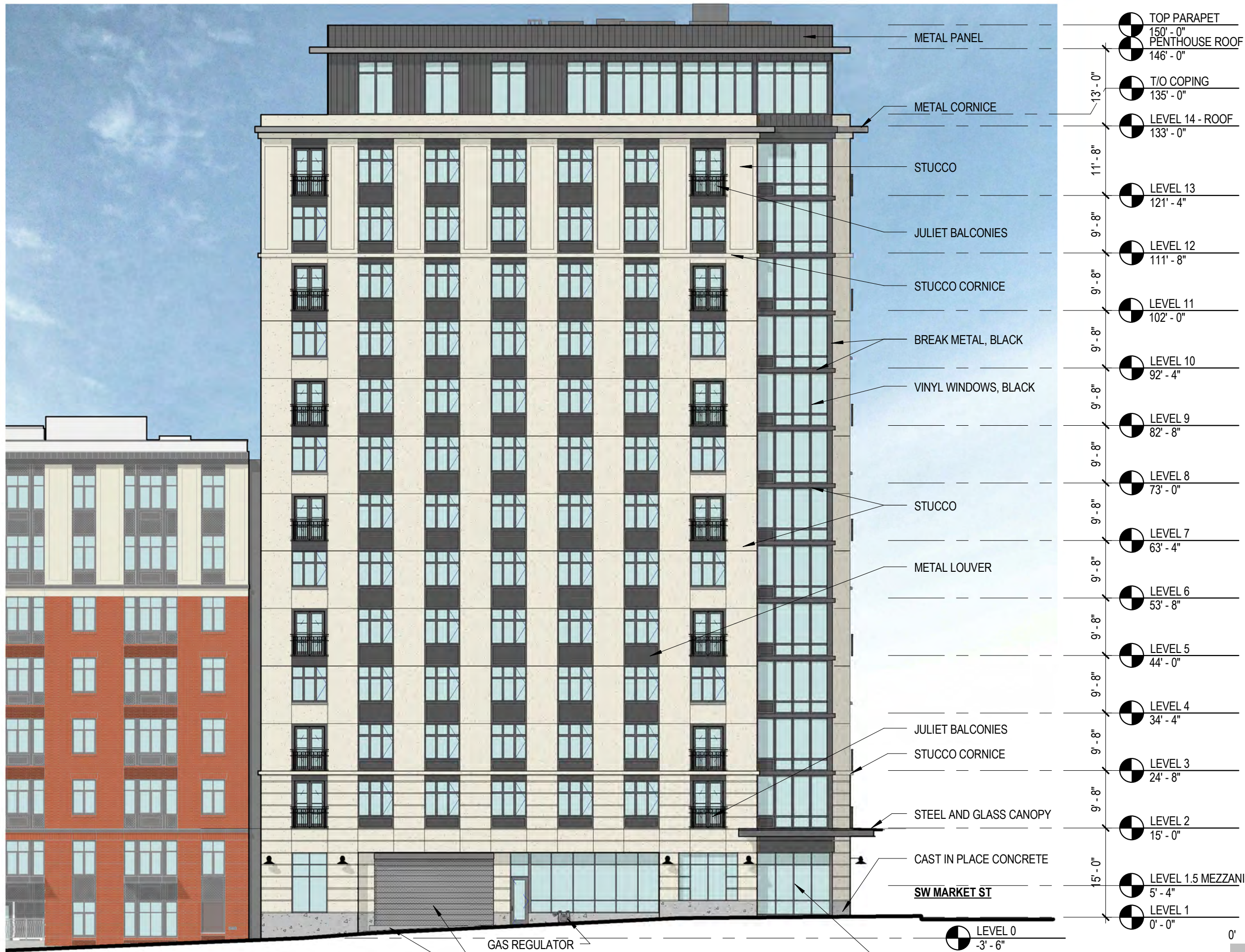




GAS REGULATOR
 PERFORATED HIGH-SPEED COILING DOOR
 RAMP TO MEET GRADE

LEVEL 0
 -3' - 6"
 STOREFRONT WINDOWS
 AT GROUND FLOOR
 STREET ELEVATIONS





METAL PANEL

METAL CORNICE

STUCCO

JULIET BALCONIES

STUCCO CORNICE

BREAK METAL, BLACK

VINYL WINDOWS, BLACK

STUCCO

METAL LOUVER

JULIET BALCONIES

STUCCO CORNICE

STEEL AND GLASS CANOPY

CAST IN PLACE CONCRETE

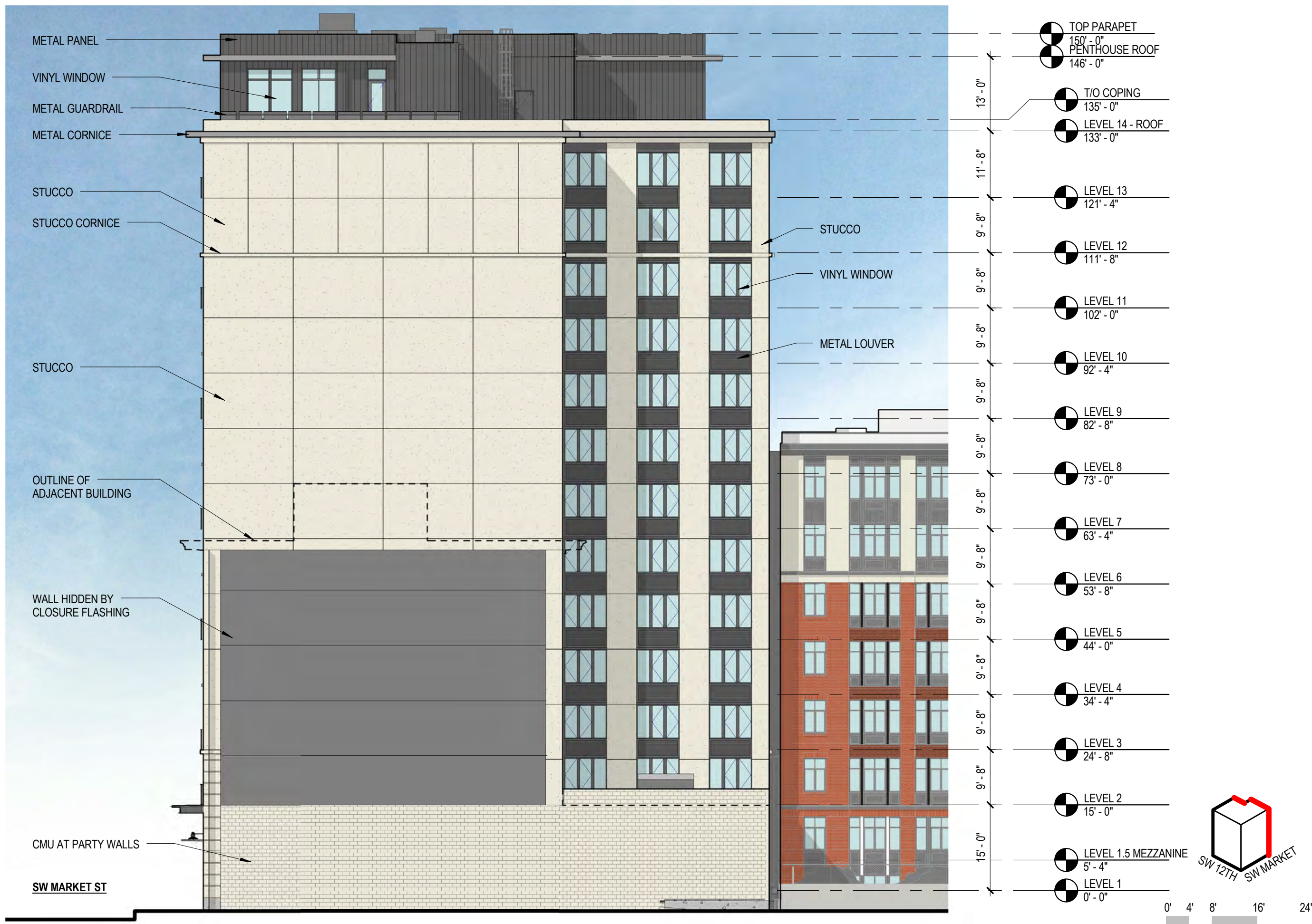
SW MARKET ST

LEVEL 0

STOREFRONT WINDOWS AT GROUND FLOOR STREET ELEVATIONS

- TOP PARAPET 150' - 0"
- PENTHOUSE ROOF 146' - 0"
- T/O COPING 135' - 0"
- LEVEL 14 - ROOF 133' - 0"
- LEVEL 13 121' - 4"
- LEVEL 12 111' - 8"
- LEVEL 11 102' - 0"
- LEVEL 10 92' - 4"
- LEVEL 9 82' - 8"
- LEVEL 8 73' - 0"
- LEVEL 7 63' - 4"
- LEVEL 6 53' - 8"
- LEVEL 5 44' - 0"
- LEVEL 4 34' - 4"
- LEVEL 3 24' - 8"
- LEVEL 2 15' - 0"
- LEVEL 1.5 MEZZANINE 5' - 4"
- LEVEL 1 0' - 0"







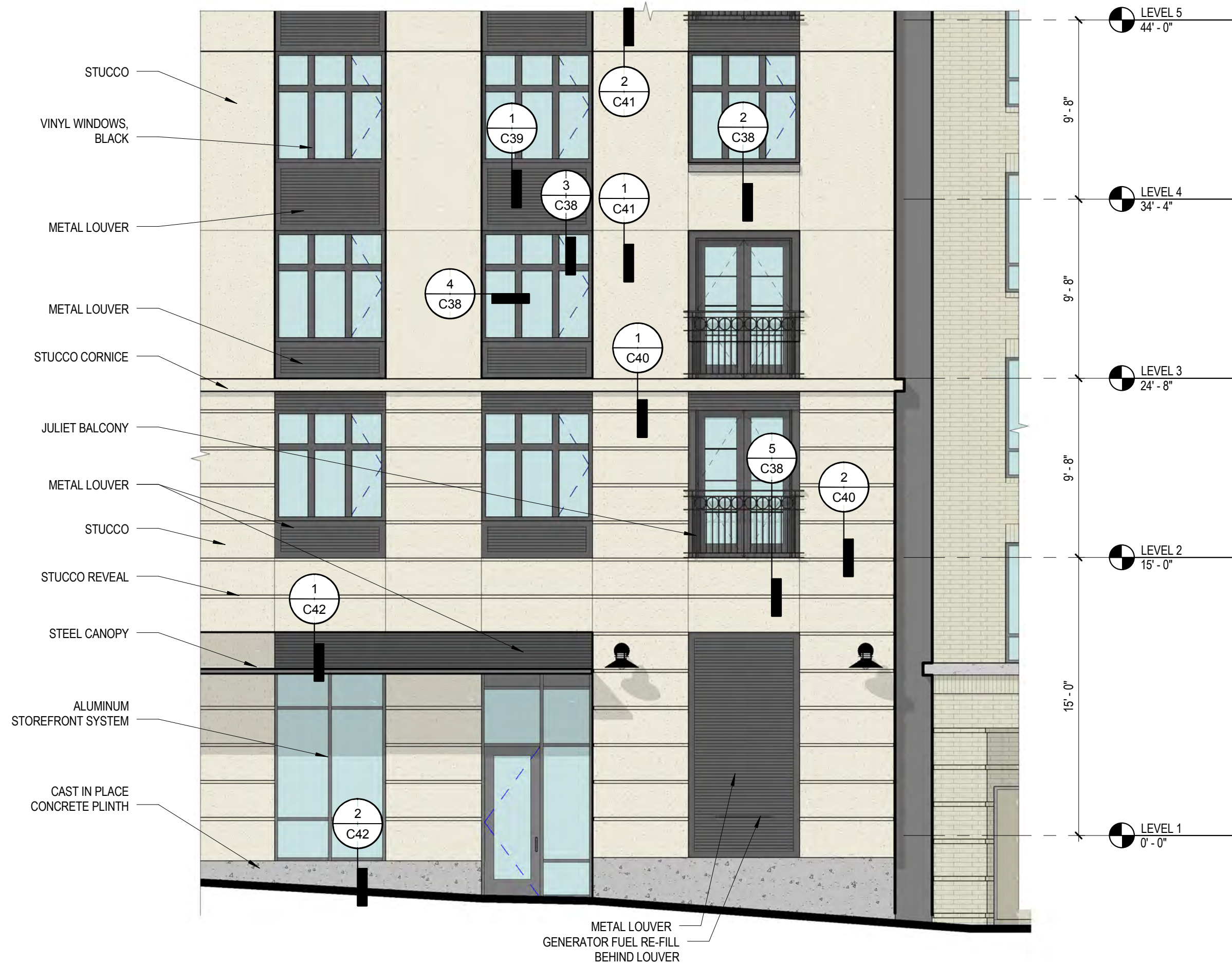












TABLE OF CONTENTS

C01	SW CORNER VIEW
C02	TABLE OF CONTENTS
C03	VIEW FROM SOUTH
C04	VICINITY PLAN
C05	THREE BLOCK SITE STUDY
C06	SITE PHOTO
C07	NEIGHBORHOOD CONTEXT
C08	SITE PLAN
C09	SITE UTILITY PLAN
C10	FAR DIAGRAMS
C11	LEVEL 1 FLOOR PLAN
C12	LEVEL 2 FLOOR PLAN
C13	LEVELS 3-13 FLOOR PLAN
C14	LEVEL 14 FLOOR PLAN
C15	ROOF PLAN
C16	LANDSCAPE ROOF TERRACE
C17	LANDSCAPE PLANTING PLAN
C18	LANDSCAPE IRRIGATION PLAN
C19	LANDSCAPE DETAILS
C20	ECOROOF DETAILS
C21	IRRIGATION DETAILS
C22	IRRIGATION DETAILS
C23	ECOROOF O+M MANUAL
C24	BIKE PARKING DIAGRAM
C25	PRECEDENTS
C26	CONCEPT DIAGRAMS
C27	SOUTH ELEVATION
C28	WEST ELEVATION
C29	EAST ELEVATION
C30	NORTH ELEVATION
C31	EAST-WEST SECTION
C32	ENLARGED ELEVATION - SOUTHWEST BASE
C33	ENLARGED ELEVATION - SOUTHEAST BASE
C34	ENLARGED ELEVATION - SOUTHWEST CROWN
C35	ENLARGED ELEVATION - NORTHWEST BASE
C36	ENLARGED ELEVATION - WEST BASE
C37	MATERIALS
C38	DETAILS - WINDOWS
C39	DETAILS - VENTILATION
C40	DETAILS - STUCCO ASSEMBLY
C41	DETAILS - STUCCO ASSEMBLY
C42	DETAILS - STOREFRONT WINDOWS
C43	CANOPY DETAILS
C44	EXTERIOR LIGHTING
C45	GROUND FLOOR WINDOW STANDARD



SITE EXTENTS



SW 12TH SW MARKET





VIEW FROM SW 12th AVE



12th AVENUE TERRACE



CLAY TOWER APARTMENTS



HELEN GORDON DEVELOPMENT CENTER



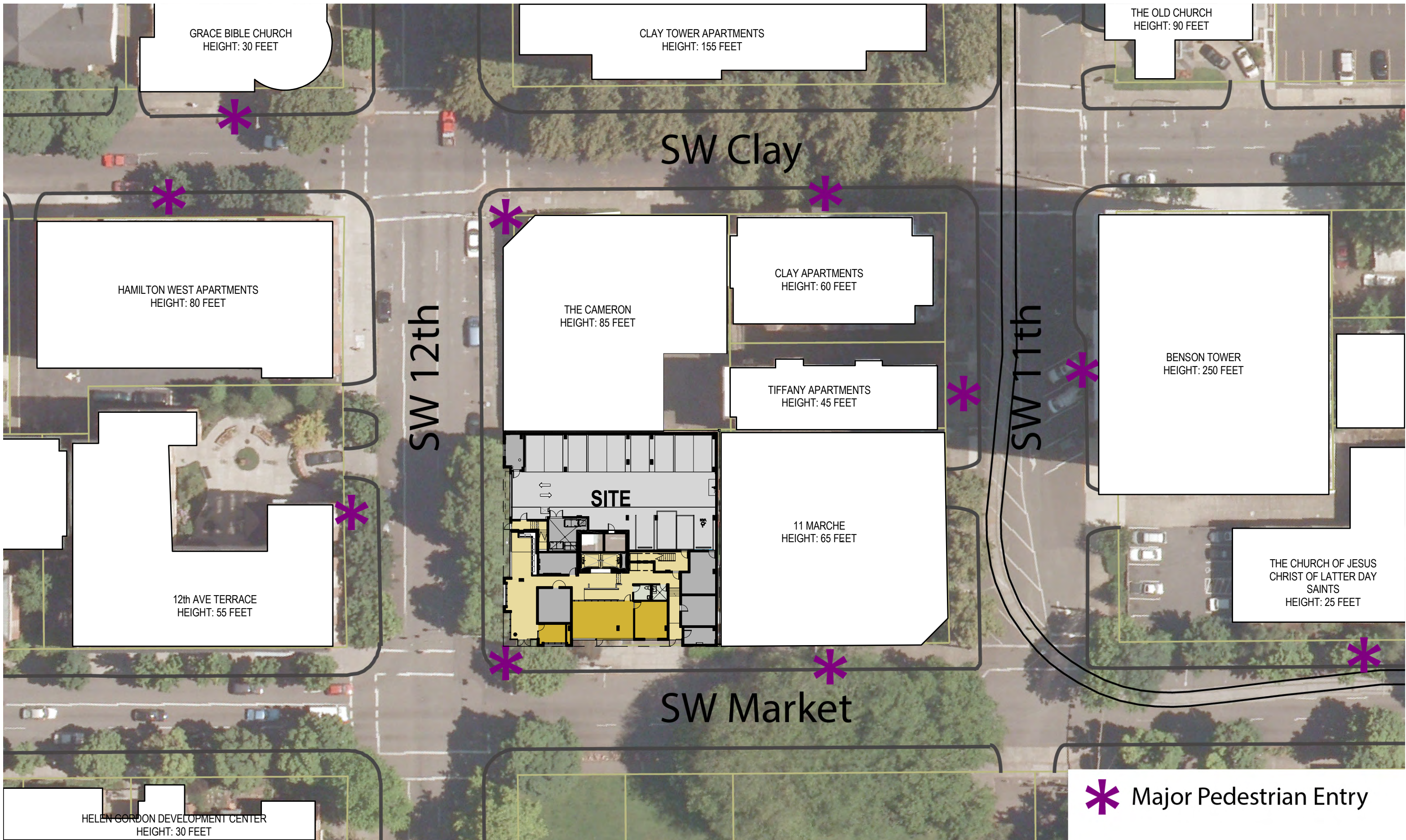
BENSON TOWER



HAMILTON WEST APARTMENTS



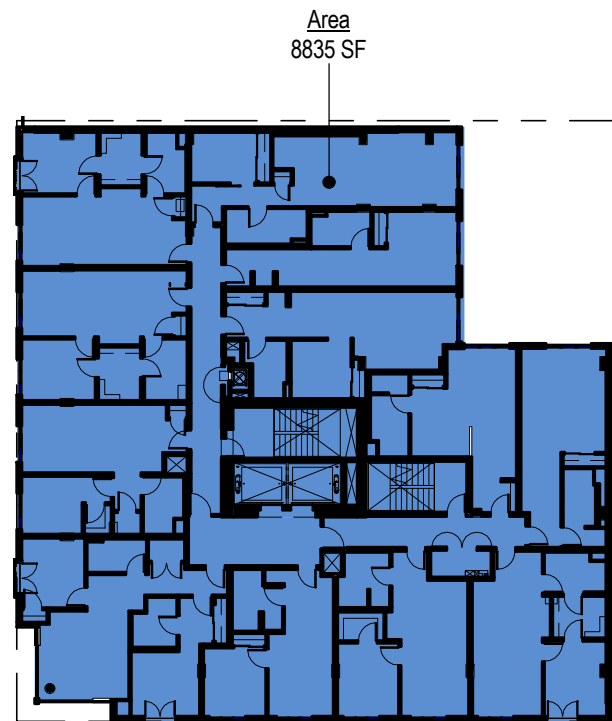
CLAY APARTMENTS



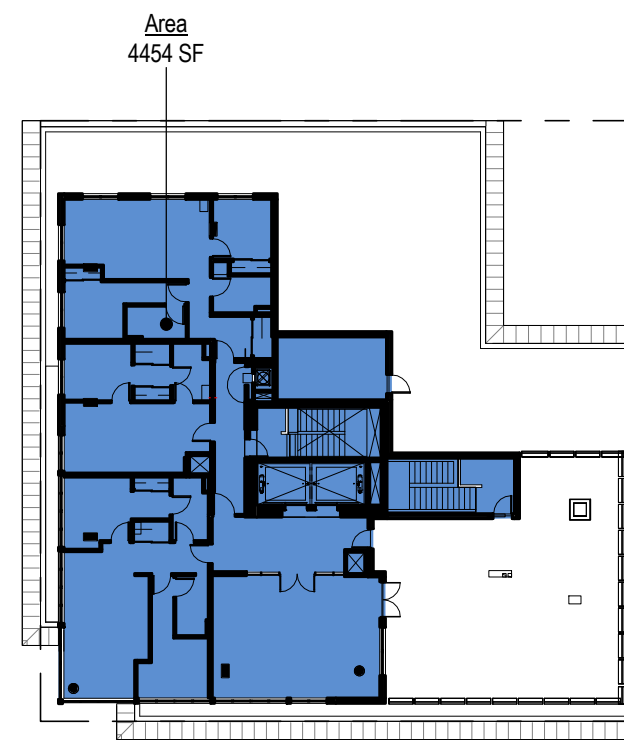
*** Major Pedestrian Entry**



LEVEL 1
1/32" = 1'-0" 1



LEVELS 2-13
1/32" = 1'-0" 2



LEVEL 14 - ROOF
1/32" = 1'-0" 3

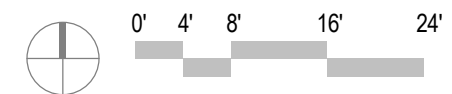
LEVEL 1	9,414 SF
LEVEL 2	8,817 SF
LEVEL 3	8,817 SF
LEVEL 4	8,817 SF
LEVEL 5	8,817 SF
LEVEL 6	8,817 SF
LEVEL 7	8,817 SF
LEVEL 8	8,817 SF
LEVEL 9	8,817 SF
LEVEL 10	8,817 SF
LEVEL 11	8,817 SF
LEVEL 12	8,817 SF
LEVEL 13	8,817 SF
LEVEL 14	4,454 SF
TOTAL	119,672 SF

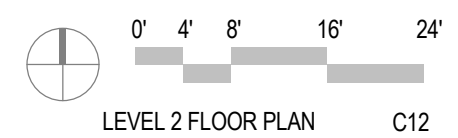
BASE ALLOWABLE FAR = 9:1 (90,000 SF)
 BONUSES ALLOWED = 3:1 (30,000 SF)
 TOTAL ALLOWABLE FAR = 12:1 (120,000 SF)

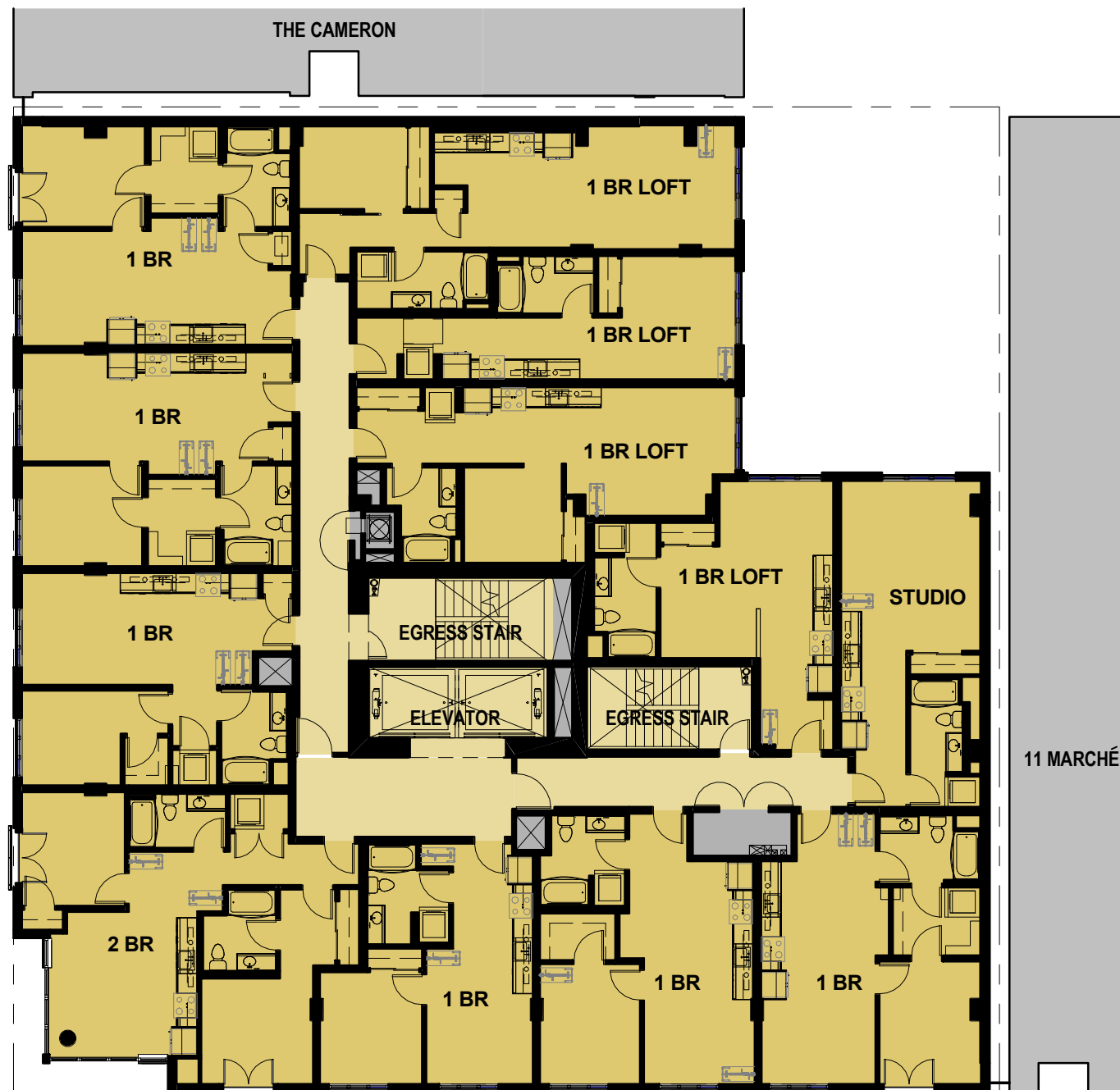
FAR BONUS METHOD

Base FAR:	8:1	10,000 SF x 8=	80,000 SF
West end small development Bonus:	1:1	10,000 SF x 1=	10,000 SF
Large unit bonus:			840 SF
Transfer from 1101 SW Market:			10,000 SF
<u>EcoRoof Bonus:</u>			20,670 SF
Total FAR Earned:			121,510 SF (12:1)
Max FAR Allowed:			120,000 SF (12:1)
Actual FAR:			119,672 SF (11.9:1)

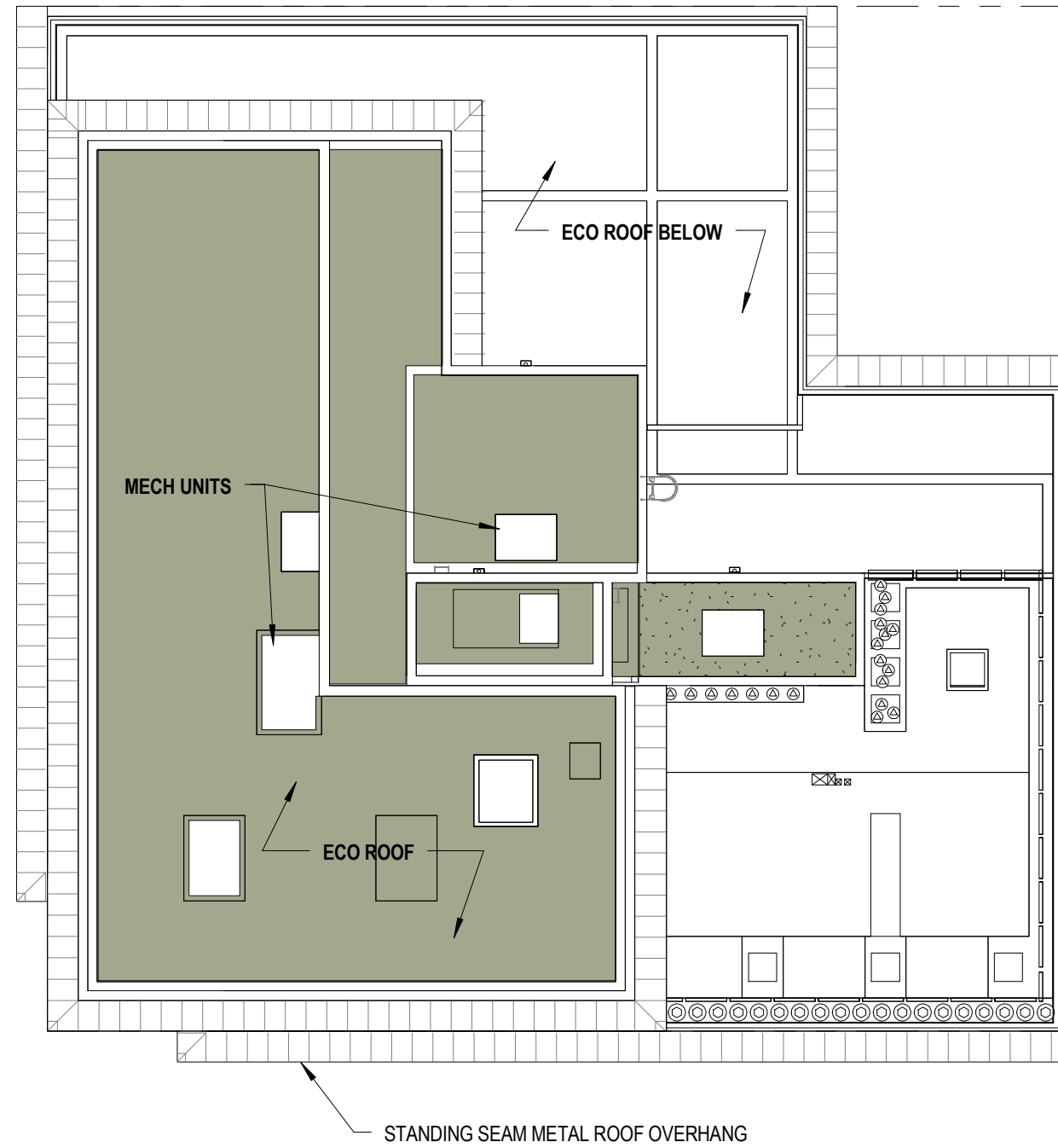
ECO ROOF BONUS:
 This project proposes 6,890 SF of eco roof. The total roof area is 9,795 SF. The eco roof comprises 70% of the total roof area (see roof plan). Per 33.510.210 C 10 a 3, when the total area of an eco roof is more than 60% of the building footprint, each square foot of eco roof earns 3 SF of additional floor area. 6,890 SF x 3= 20,670 SF bonus.











FURNITURE CHARACTER



WOOD TILE PAVING



PLANTERS SET IN COBBLE



CONC PAVERS

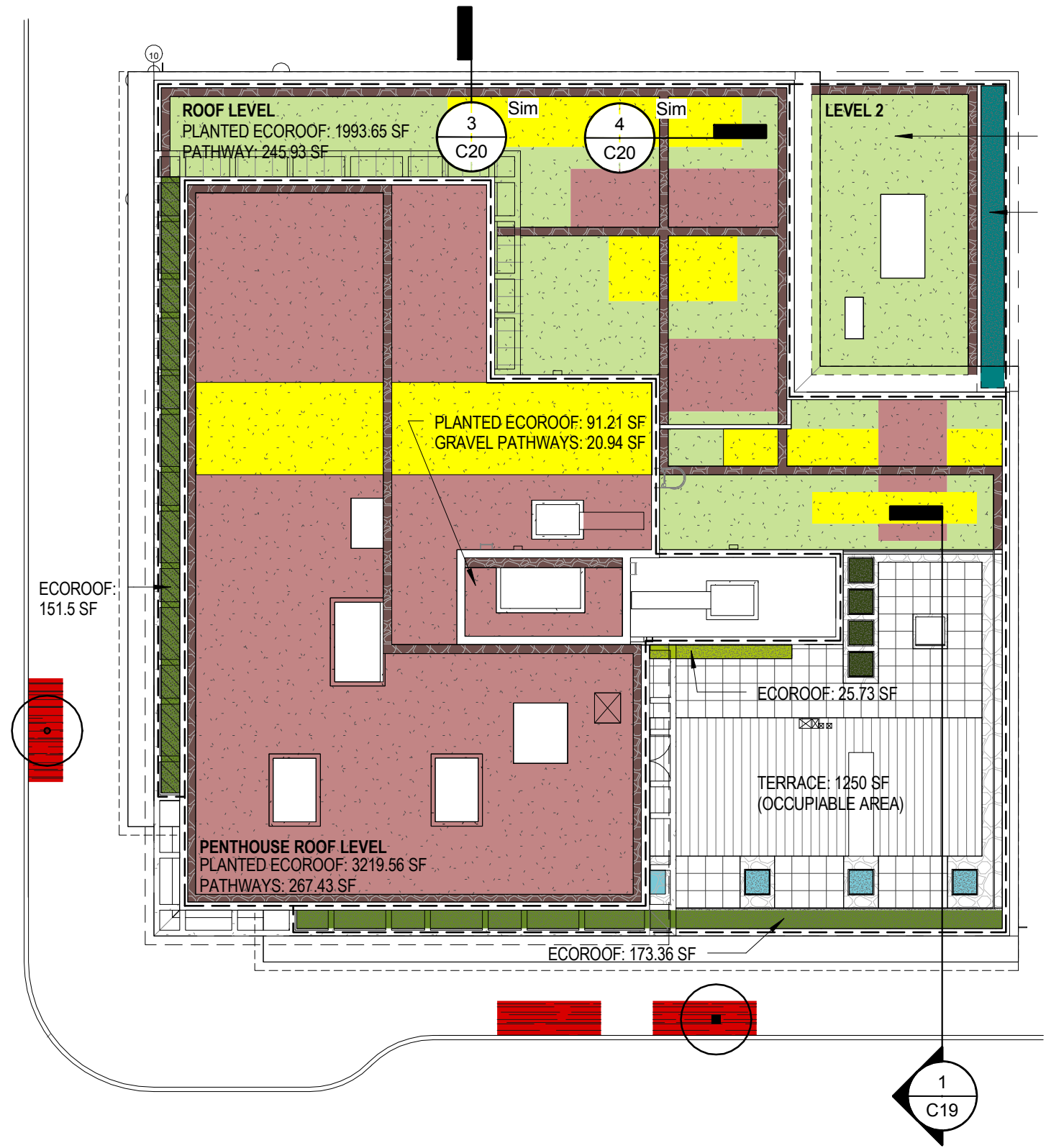


FIRE TABLE



PLANT SCHEDULE

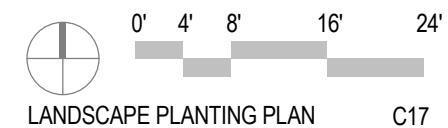
TYPE	BOTANICAL COMMON NAME	SIZE
TREES		
	CARPINUS BETULUS 'FASTIGIATA' PYRAMIDAL EUROPEAN HORNBEAM	3.5" CAL.
	QUERCUS FRAINETTO 'SCHMIDT' FOREST GREEN OAK	3.5" CAL.
SHRUBS		
	EUONYMUS 'GREEN SPIRE' GREEN SPIRE EUONYMUS	3 GAL.
	ILEX GLABRA 'SHAMROCK' SHAMROCK INKBERRY	5 GAL.
GRASSES		
	CAREX ELATA 'AUREA' BOWLES GOLDEN SEDGE	1 GAL.
	HELICTOTRICHON SEMPERVIRENS BLUE OAT GRASS	1 GAL.
GROUNDCOVERS		
	"ALL SEASONS" SEDUM MIX PREPLANTED TRAY ECOROOF BY COLUMBIA GREEN	NONE
	"SHADE MIX" SEDUM MIX PREPLANTED TRAY ECOROOF BY COLUMBIA GREEN	NONE
	"COLOR MAX" SEDUM MIX PREPLANTED TRAY ECOROOF BY COLUMBIA GREEN	NONE
	RIGHT OF WAY PLANTER MIX CORNUS STOLONIFERA 'KELSEY' KELSEY DOGWOOD PENNISETUM ALOPECUROIDES 'HAMELN' DWARF FOUNTAIN GRASS RUDEBECKIA FULGIDA 'GOLDSTRUM' BLACK-EYED SUSAN	3 GAL. 1 GAL. 1 GAL.
	STORMWATER PLANTER MIX CAREX TESTACEA ORANGE SEDGE JUNCUS PATENS SPREADING RUSH POLYSTICHUM MUNIUM SWORD FERN	1 GAL. 1 GAL. 1 GAL.

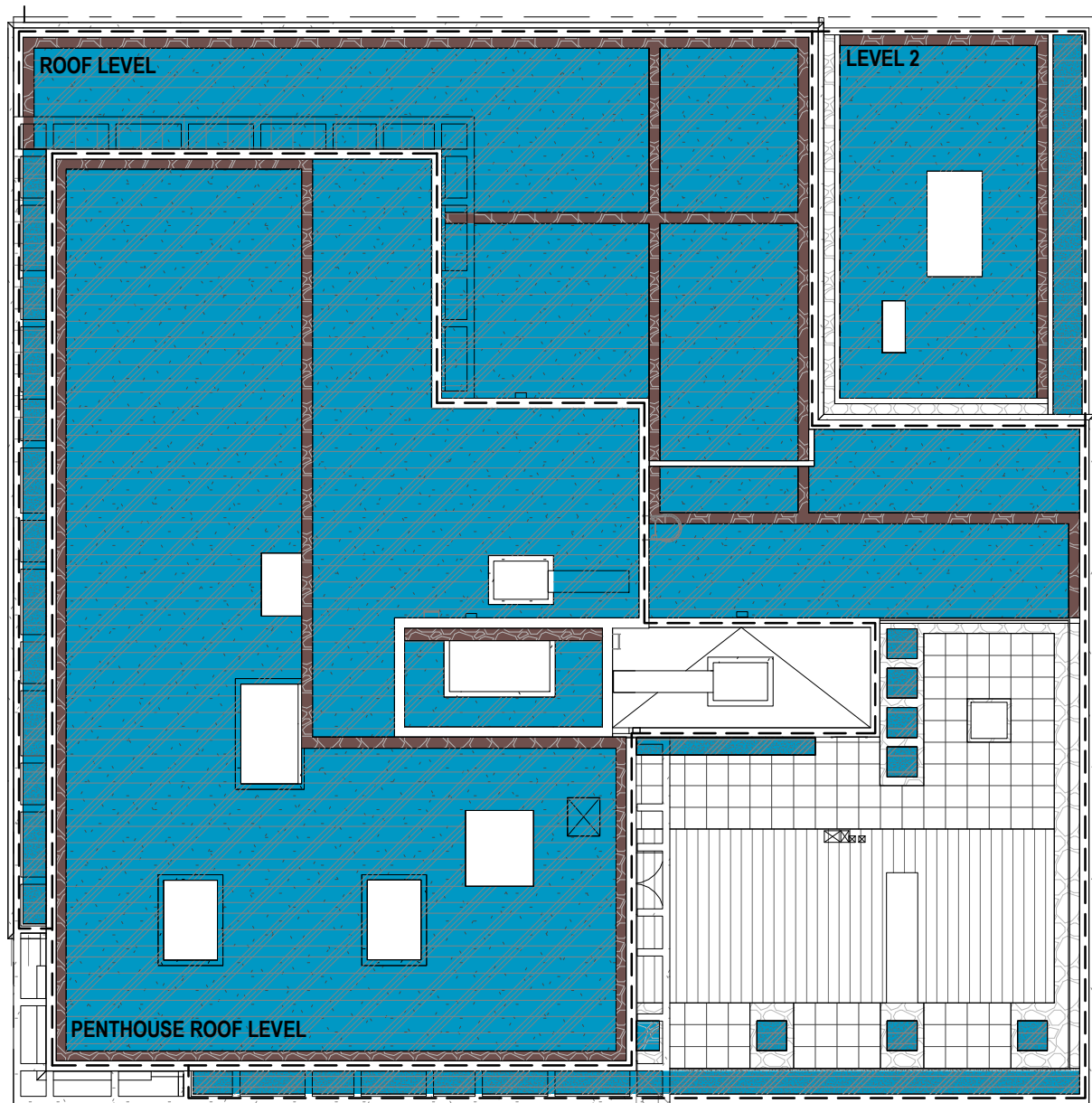


CITY OF PORTLAND ECO-ROOF FAR BONUS INFO:







- TOTAL BUILDING FOOTPRINT: 9795 sf
(w/o mechanical pads: 9453 sf)
- ECOROOF PLANTING PLAN SQUARE FOOTAGE BREAKDOWN:

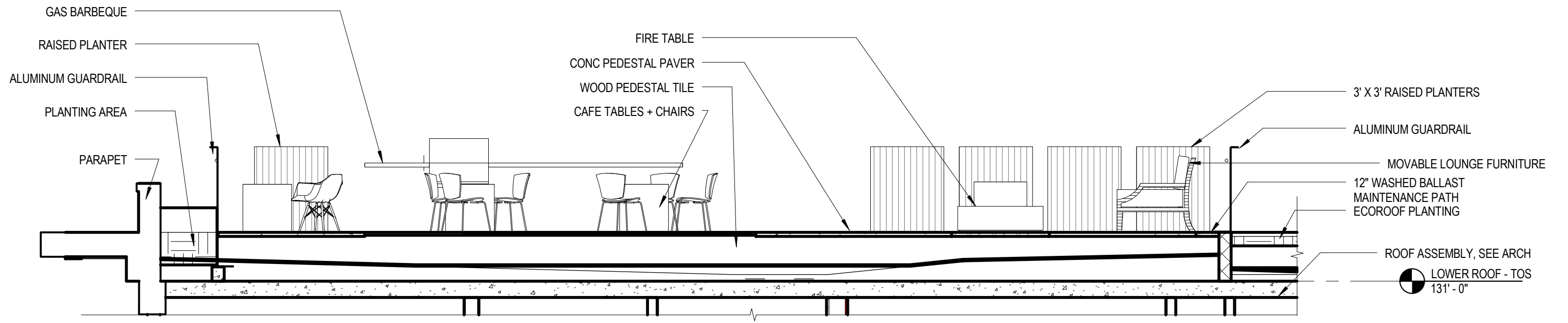
A. PENTHOUSE ROOF PLANTED ECOROOF:	3310.77 sf
B. PENTHOUSE ROOF PATHWAYS:	288.37 sf
C. ROOF LEVEL PLANTED ECOROOF:	2344.24 sf
D. ROOF LEVEL PATHWAYS:	245.93 sf
E. LEVEL 2 PLANTED ECOROOF:	524.15 sf
F. LEVEL 2 PATHWAYS:	134.8 sf
- TOTAL ECOROOF: 6848.26 sf
- TOTAL PATHWAYS: 669.1 sf
- %PATHWAYS: 9.7%
- STORMWATER PLANTER: 94 sf





LEGEND - IRRIGATION

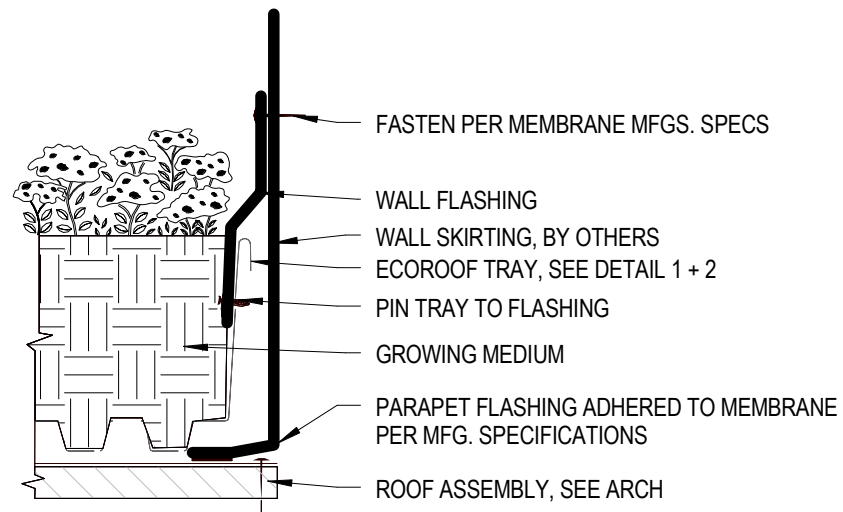
-  IN-LINE DRIP IRRIGATION
-  P.O.C. POINT OF CONNECTION, LOCATION TO BE DETERMINED
-  AUTOMATIC CONTROL VALVE, LOCATION TO BE DETERMINED
-  QUICK COUPLER, LOCATIONS TO BE DETERMINED
-  AUTOMATIC "SMART" CONTROLLER, LOCATION TO BE DETERMINED
-  IRRIGATION MAINLINE, LOCATION TO BE DETERMINED



TERRACE CROSS SECTION

1

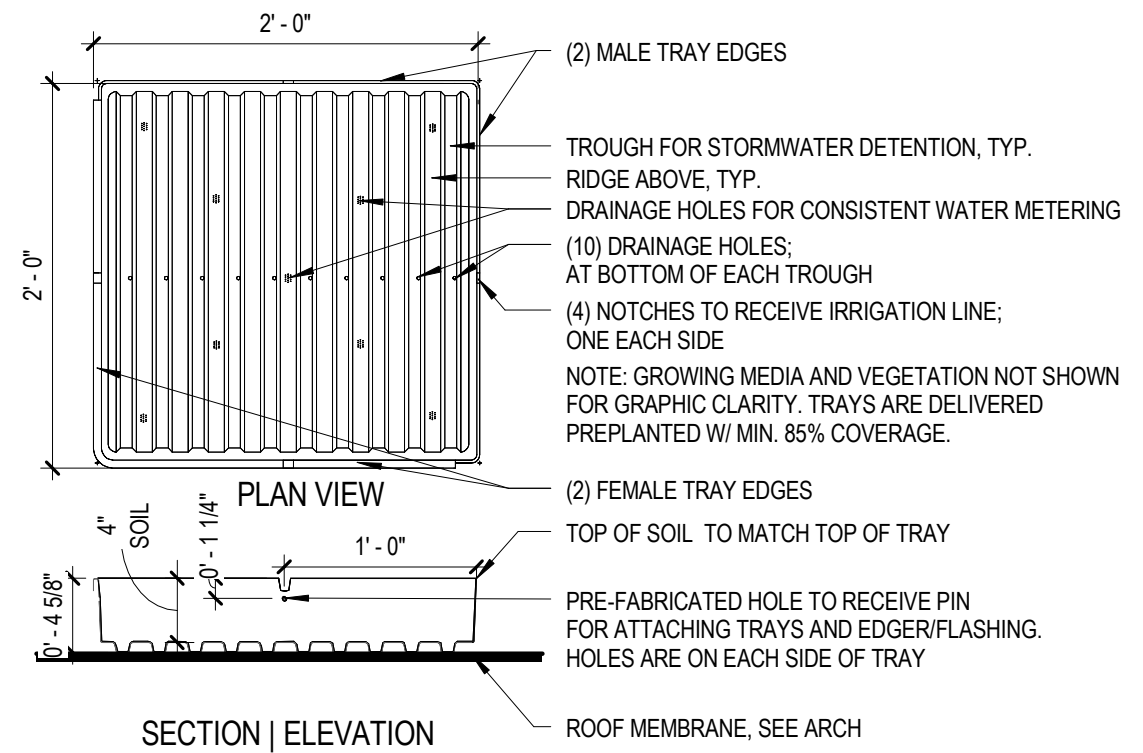
1/4" = 1'-0"



ECOROOF TRAY AT WALL

3" = 1'-0"

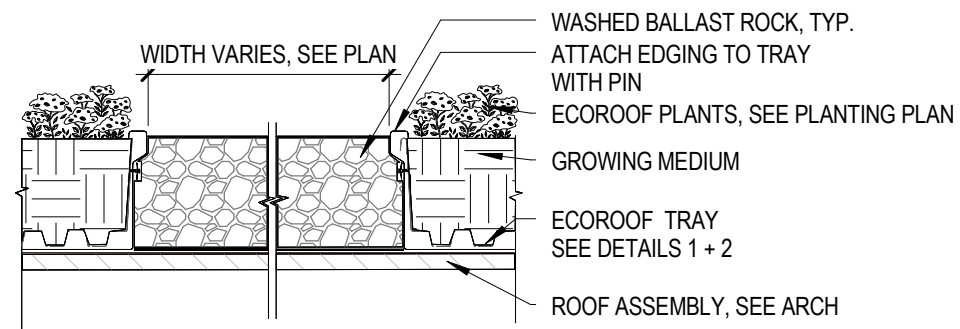
3



ECOROOF PREPLANTED TRAY DETAIL

1" = 1'-0"

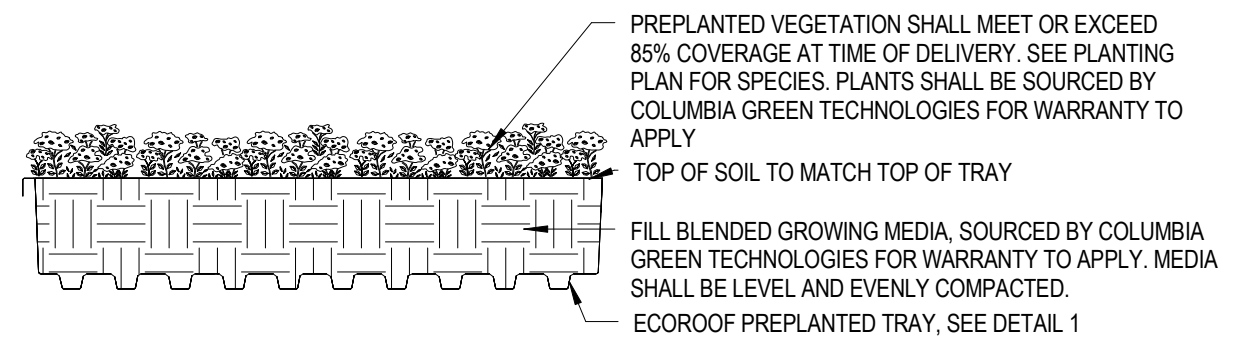
1



ECOROOF AT INTERIOR BALLAST WALK

1 1/2" = 1'-0"

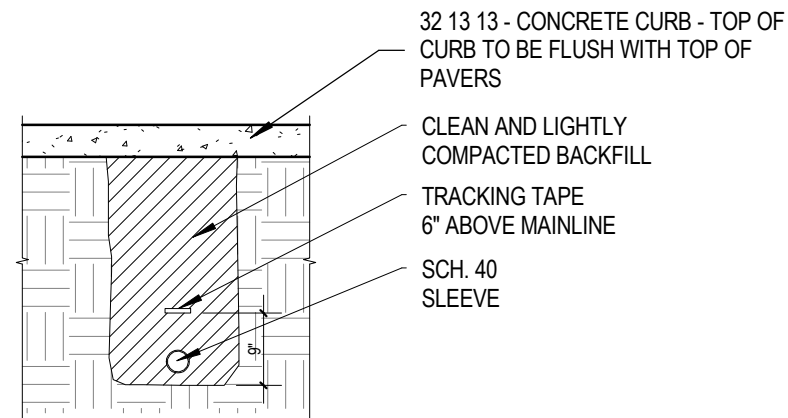
4



ECOROOF TRAY PLANTING DETAIL

1 1/2" = 1'-0"

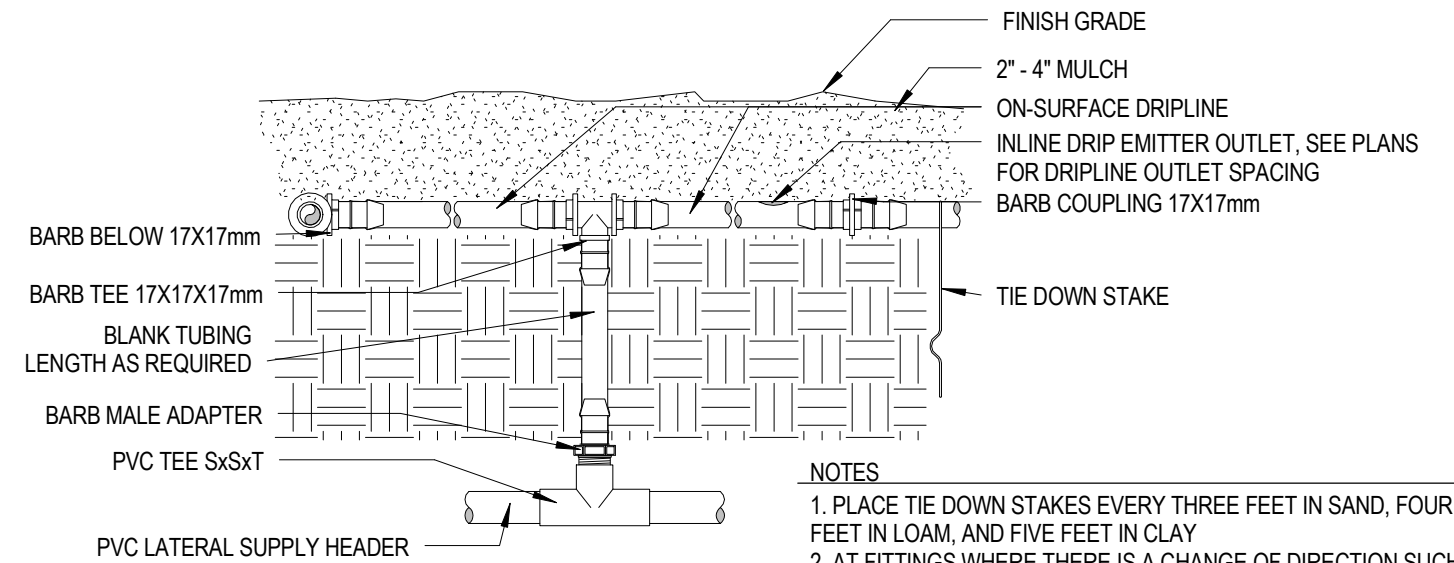
2



IRRIGATION SLEEVE

1/2" = 1'-0"

3



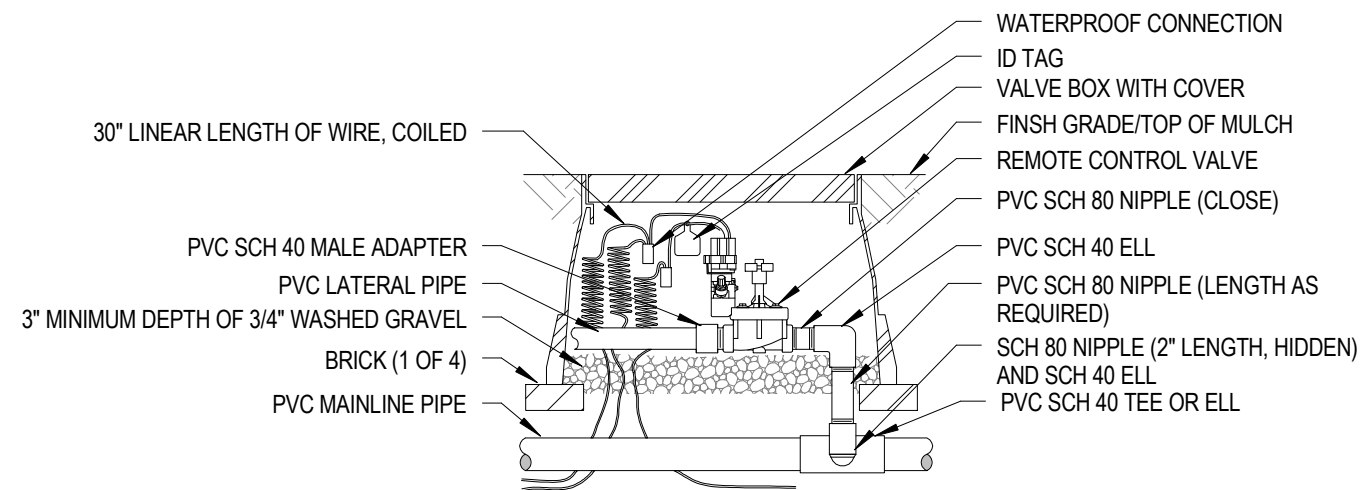
NOTES

1. PLACE TIE DOWN STAKES EVERY THREE FEET IN SAND, FOUR FEET IN LOAM, AND FIVE FEET IN CLAY
2. AT FITTINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TEES OR ELBOWS, USE TIE-DOWN STAKES ON EACH LEG OF THE CHANGE OF DIRECTION.

ON-SURFACE DRIPLINE RISER ASSEMBLY

1/4" = 1'-0"

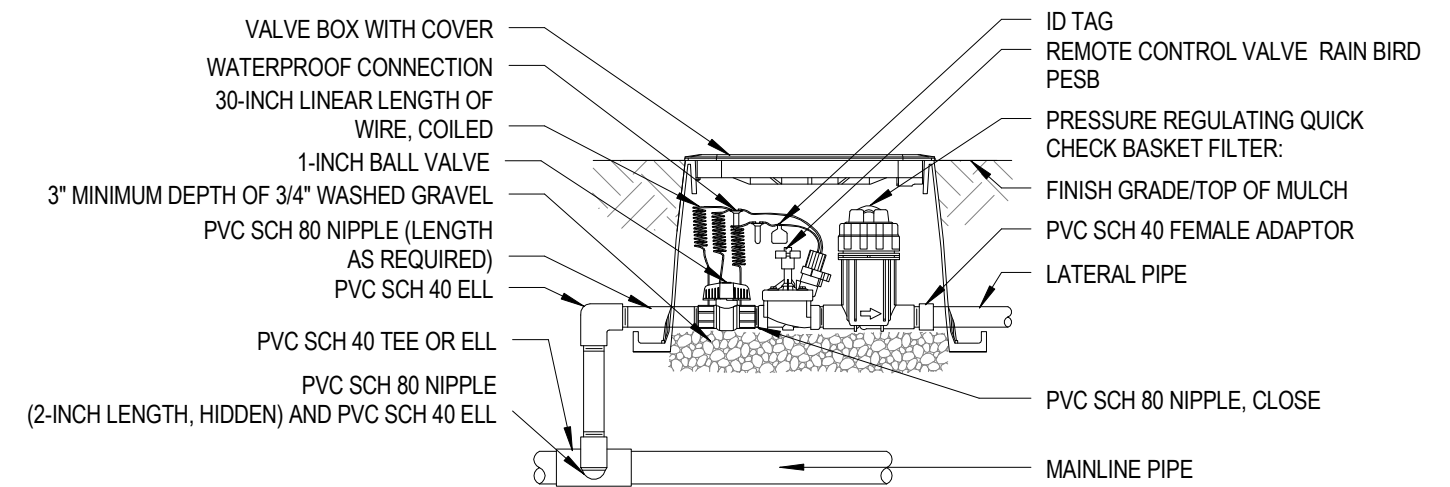
1



ELECTRIC REMOTE-CONTROL VALVE

3/4" = 1'-0"

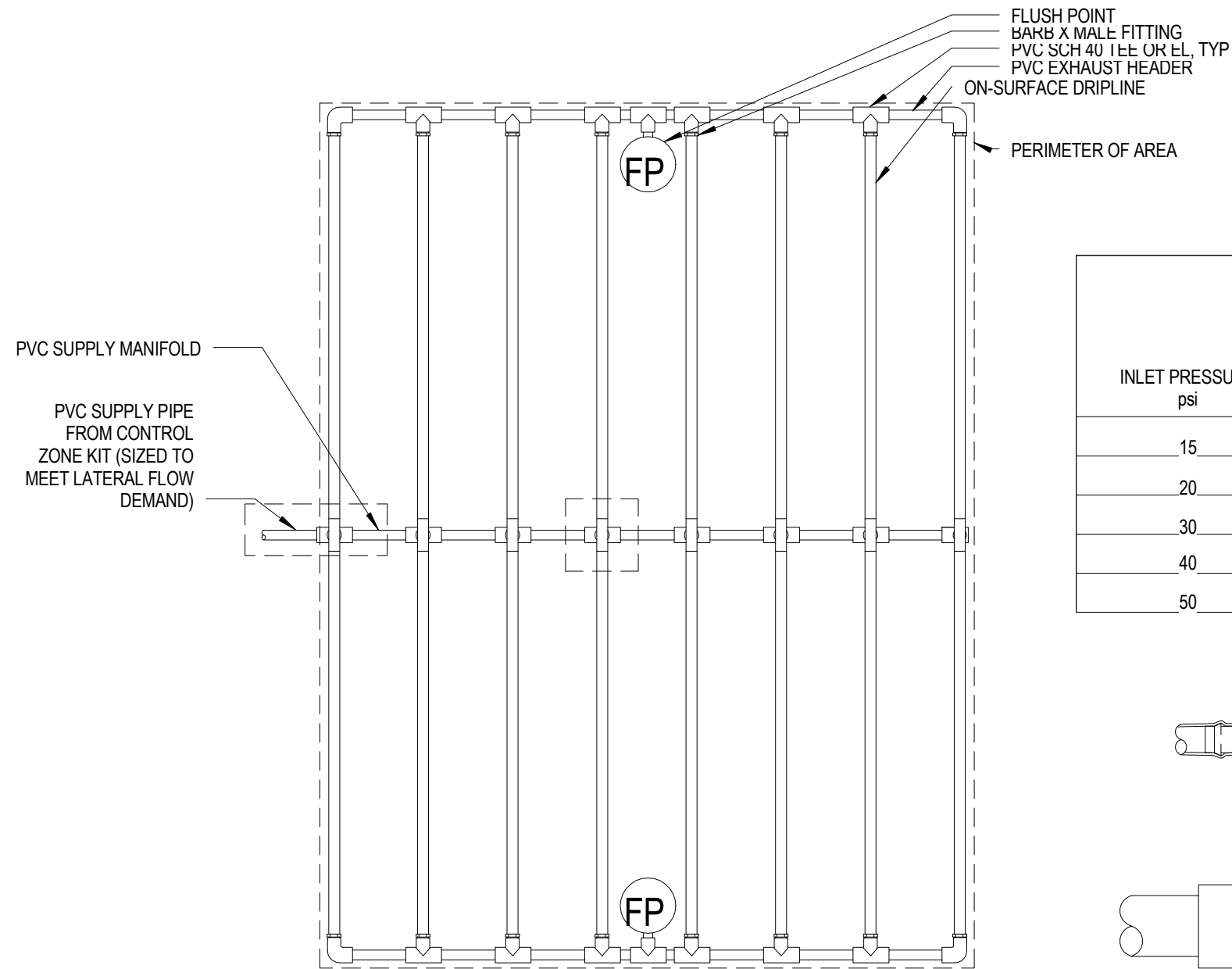
4



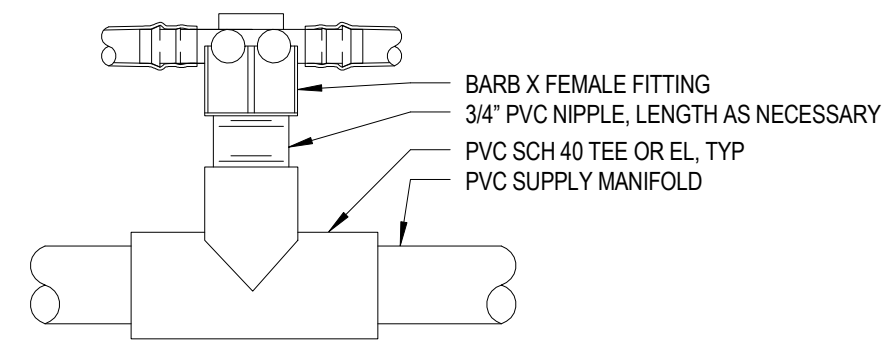
DRIPLINE CONTROL ZONE KIT

3/4" = 1'-0"

2



INLET PRESSURE psi	12" SPACING		18" SPACING		24" SPACING	
	NOMINAL FLOW (GPH)		NOMINAL FLOW (GPH)		NOMINAL FLOW (GPH)	
	.6	.9	.6	.9	.6	.9
15	255	194	357	273	448	343
20	291	220	408	313	514	394
30	350	266	494	378	622	478
40	396	302	560	428	705	541
50	434	333	614	470	775	594



NOTES:
 1. DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION.
 2. LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM SPACING SHOWN IN THE ACCOMPANYING TABLE.

DR - DRIPLINE CENTER + FEED LAYOUT

3/8" = 1'-0"

1

ECOROOF OPERATIONS AND MAINTENANCE MANUAL

Ecoroofs are vegetative systems that retain and filter stormwater and provide aesthetic and energy conservation benefits. The Extensive Ecoroof filters stormwater with a plant palette composed primarily of sedum plants.

Soil medium, vegetation, irrigation and drains shall be inspected for proper operations throughout the life of the ecoroof. All elements shall be inspected annually. Facilities personnel shall keep a log, recording all inspection dates, observations, and maintenance activities. Work orders and invoices shall be kept on file and made available to City inspector upon request. The following items shall be inspected and maintained as stated:

Soil Substrate / Growing Medium shall sustain healthy plant cover and infiltrate within 48 hours

- Growing medium shall be inspected for evidence of erosion from wind, water and settlement. If erosion channels are evident, they shall be stabilized with additional soil substrate/growth medium and covered with additional plants. All depressions as the result of maintenance foot traffic activity, settlement, etc. shall be filled flush with adjacent medium. Plant mortality as a result of foot traffic shall be replaced immediately. Bare soil shall be planted per the planting design. Soil shall drain within 48 hours.

Ecoroof System shall be operated and maintained in accordance with manufacturer's requirements. Drain inlets shall be kept unrestricted

- Inlet pipe shall be cleared when soil substrate, vegetation, debris, litter or other materials clog the drain inlet. Sources of sediment and debris shall be identified and corrected.
- Determine if drain inlet pipe is in good condition and correct as needed.
- Contact membrane manufacturer if tears or perforations are found in the membrane.

Vegetation shall be maintained to provide 95% plant cover.

- During the Establishment Period, dead or damaged plants shall be replaced by contractor once per month as needed until expiration of warranty after which the Owner or building facilities shall be responsible for maintenance. During the LongTerm Period, dead plants shall generally be replaced once per year in the fall months.
- Fallen leaves and debris from deciduous plant foliage shall be removed.
- Nuisance and prohibited vegetation from the Portland Plant List shall be removed when discovered.
- Weeding shall be manual with no herbicides or pesticides used. Weeds shall be removed regularly and not allowed to

accumulate.

- Vegetation must cover at least 90% of the facility at maturity. Plants should be replanted from the original planting plan or can be substituted from the plant list in the SWMM.

Irrigation of Extensive Ecoroof

- During the Establishment Period (2 years), the irrigation timer shall be set to assure plant establishment at a rate of .25 inch every 14th day during the months of June and September (warm periods) and .25 inch every seventh day during July and August (hot dry periods).
- During Long-Term Period (after 2 full years), water at a rate of .25 inch every 14th day during the months of July and August to maintain plant cover. Irrigation at the same rate may be used during the months of May, June, September, and October only as needed. No irrigation is allowed from the beginning of November through the end of April.
- Irrigation watering times shall be modified as needed to accommodate fluctuations in dry and wet periods with the exception that at no time shall the irrigation exceed .5 inches per ten days. Accurate monitoring and assessment of temperature and rainfall shall dictate schedule and watering lengths. Automatic rain shut off valves are to be inspected and any debris removed during irrigation regime.

Spill prevention measures from mechanical systems located on roof shall be exercised when handling substances that can contaminate stormwater

- Release if pollutants shall be corrected as soon as identified.

- Best management practices shall be implemented to prevent hazardous wastes from contaminating stormwater.

Record time, date, weather and site conditions when site activities contaminate stormwater.

Training and/or written guidance information

- A copy of O&M Plan for maintaining Ecoroofs shall be provided to the Owner's maintenance personnel for reference.

Building facilities / maintenance personnel shall receive instruction as to needs and regular schedules for properly maintaining the health and vigor of the ecoroof plantings and associated drainage surface.

Access and Safety to the Ecoroof

- No tenant circulation or egress routes are proposed or allowed on extensive ecoroof areas. Maintenance personnel shall access roof via utility access points and tie into safety points as needed when inspecting or maintaining perimeter areas that pose a safety concern.

- Aesthetics of the Ecoroof shall be maintained as an asset to the property owner and community

- Evidence of damage or vandalism shall be repaired and accumulation of trash debris shall be removed upon discovery.

Insects shall not be harbored at the Ecoroof

- Standing water creating an environment for development of insect larvae shall be eliminated by manual means. Chemical sprays shall not be used.

- Record time, date, weather, and site conditions when insect or rodent activity is observed. Record when insect or rodent activity abated or ended.

Annual Maintenance Schedule:

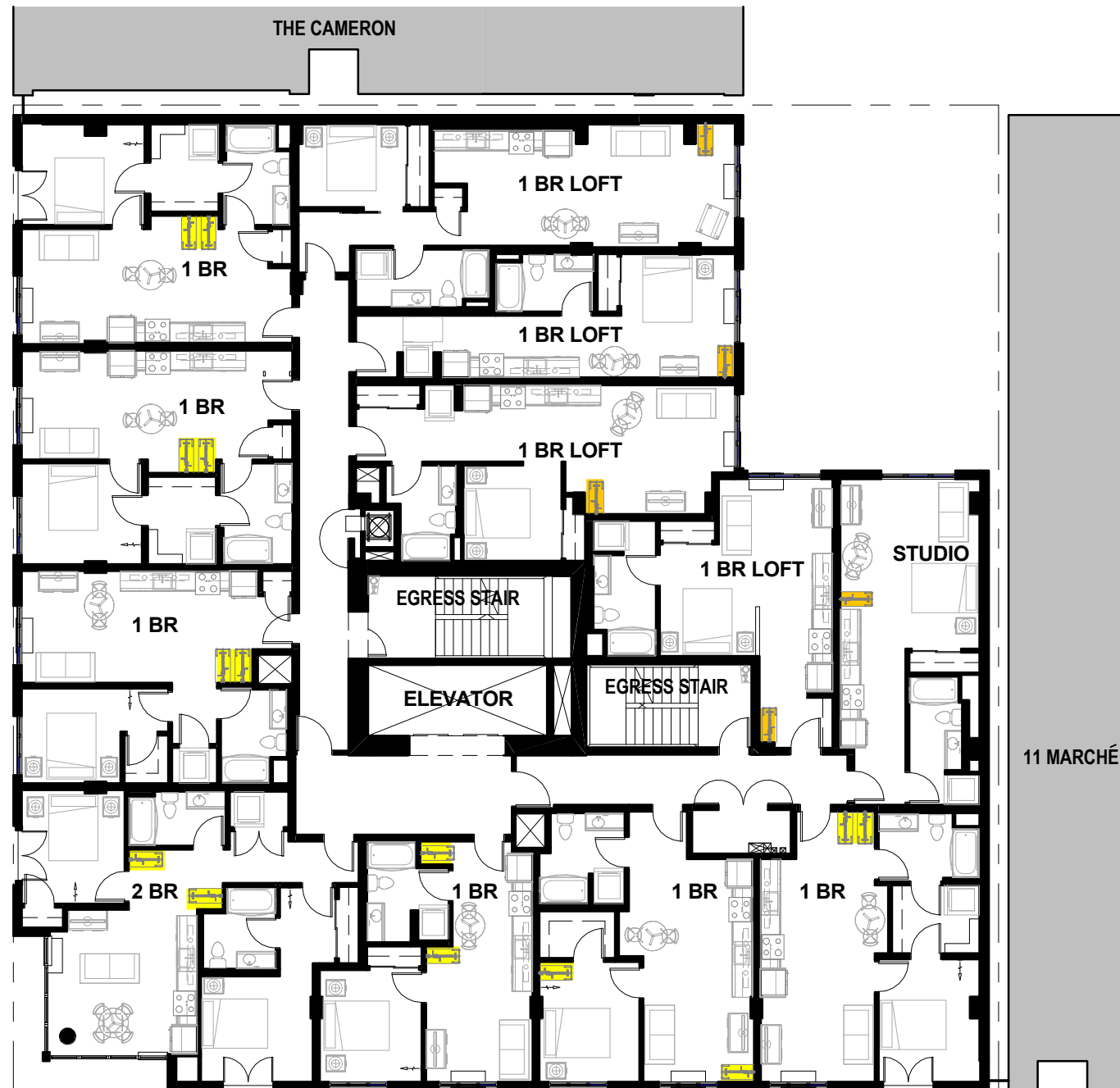
Summer: Make necessary repairs. Improve growing medium as needed. Clear drains. Irrigate as described above.

Fall: Replace exposed soil and dead plants. Remove sediment and debris from drains. Provide erosion controls for base soil if necessary.

Winter: Monitor infiltration/flow rates. Clear drains as needed.

Spring: Replant exposed soil and dead plants. Remove sediment and debris from drains.

All Seasons: Weed as necessary.



= (1) WALL-MOUNTED BIKE PARKING SPOT
 = (2) WALL-MOUNTED BIKE PARKING SPOTS

BIKE PARKING PROVIDED:

LEVELS 2-13:
 (1) BIKE PER UNIT x (5) UNITS = (7) BIKES
 (2) BIKES PER UNIT x (7) UNITS = (14) BIKES
 BIKE SPOTS PER LEVEL = (19) BIKES x (12 LEVELS)
 LEVELS 2-13 TOTAL = (228) BIKES

BUILDING TOTAL = (228) BIKE PARKING SPOTS

BIKE PARKING REQUIRED:

LONG TERM:
 (1.5) BIKES PER (146) UNITS = (219) BIKES PARKING SPOTS

SHORT TERM:
 (1) PER (20) UNITS = (8) SPACES VIA BICYCLE PARKING FUND



CHILEHAUS
HAMBERG



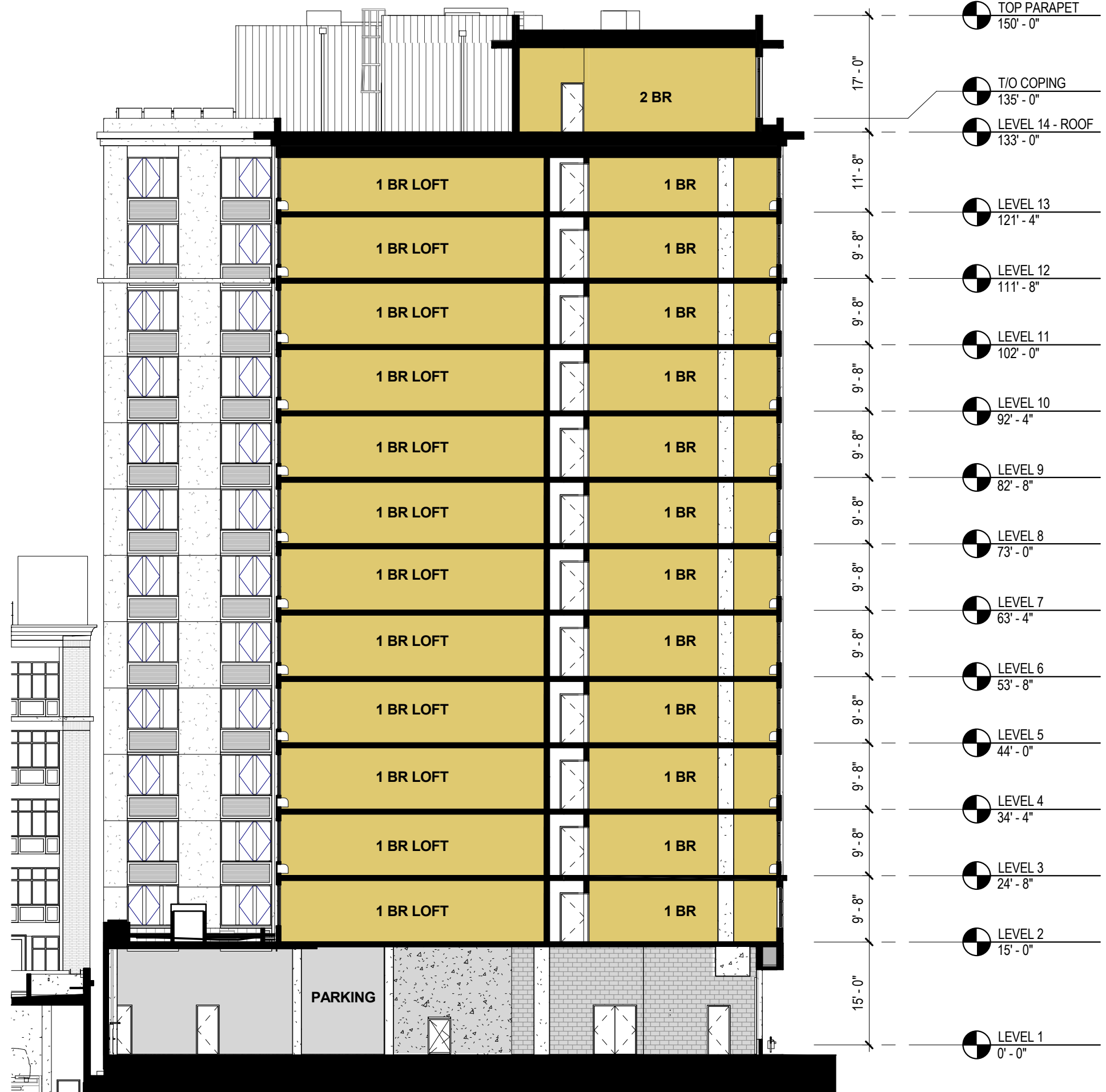
CHILEHAUS
HAMBERG

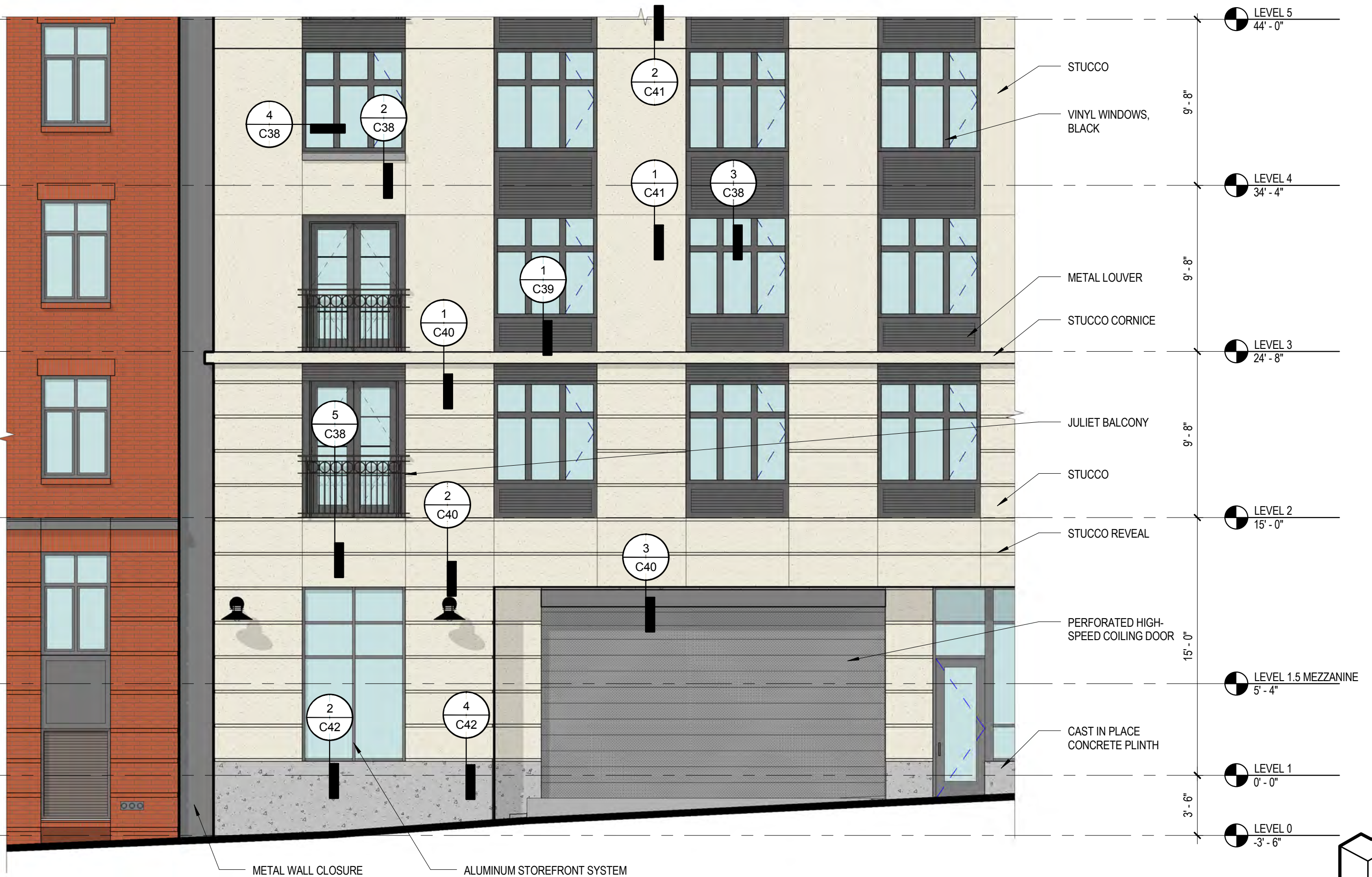


SPALDING BUILDING
PORTLAND



WEATHERLY BUILDING
PORTLAND







METAL PANEL - 12" WIDE
FLUSH INTERLOCK

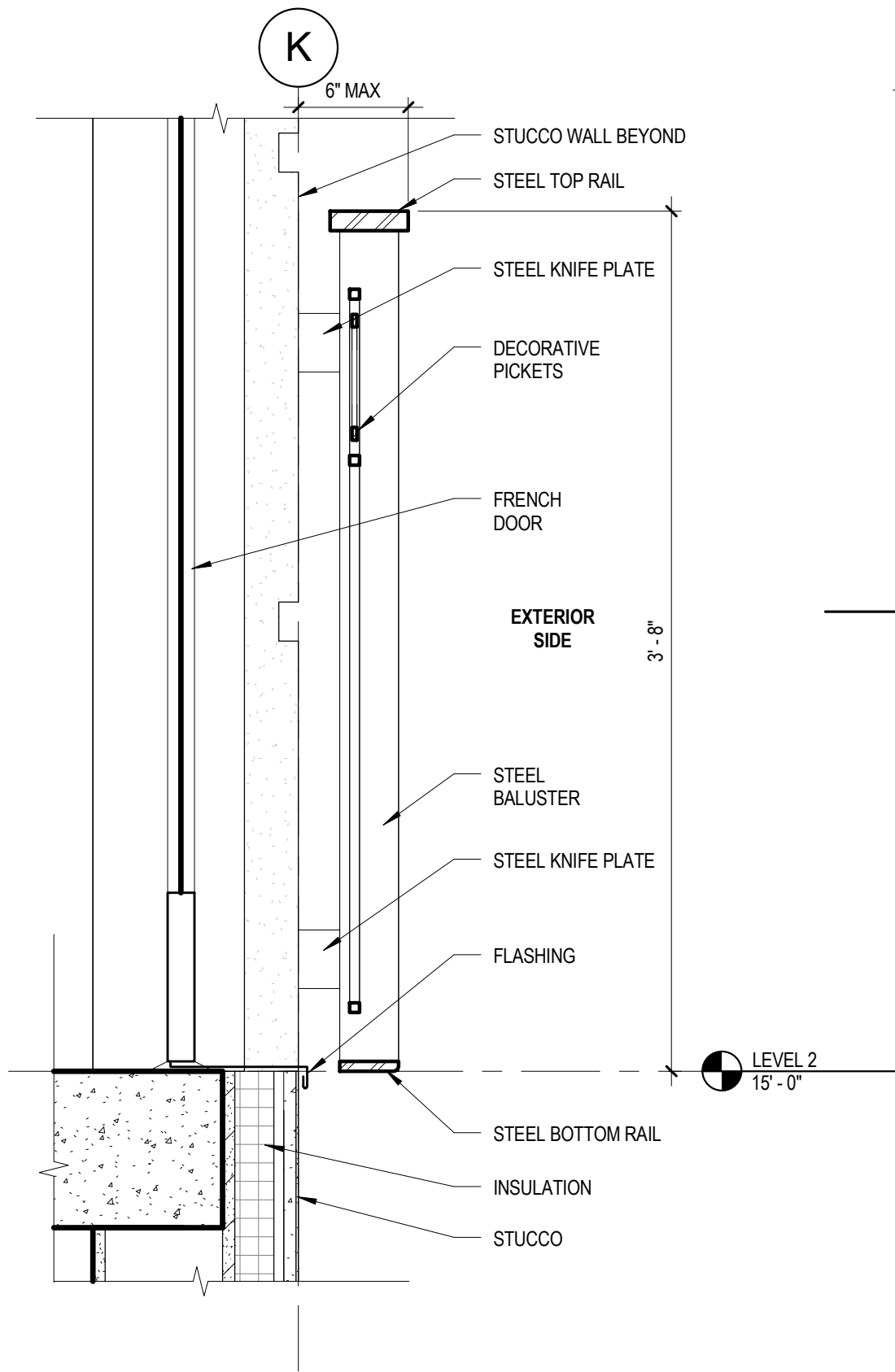


PERFORATED HIGH-SPEED
COILING DOOR



GLASS CANOPY
ALUMINUM
STOREFRONT GLAZING
BLACK VINYL WINDOWS
STUCCO

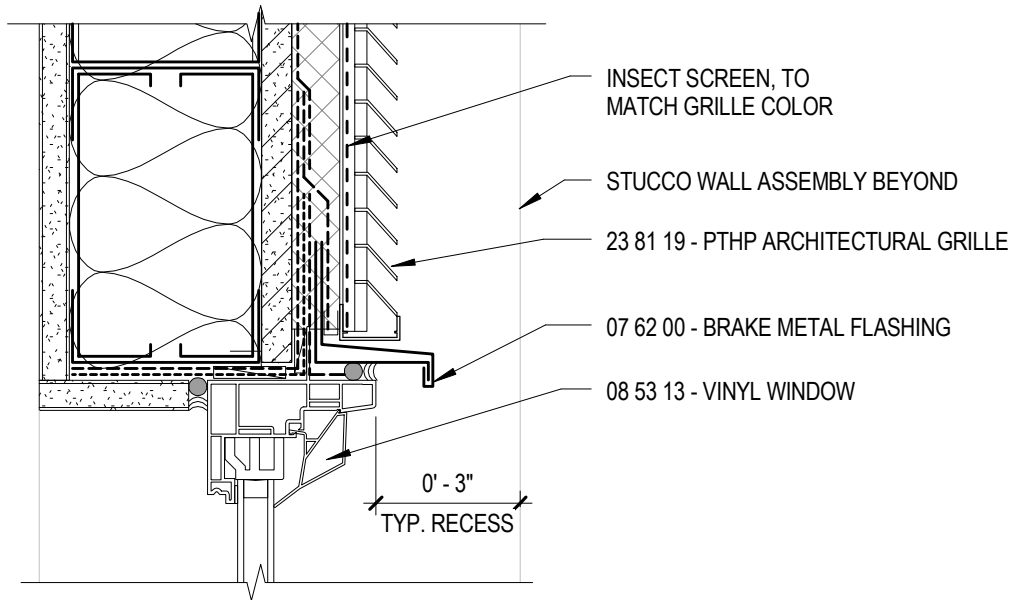




JULIET BALCONY SECTION

1 1/2" = 1'-0"

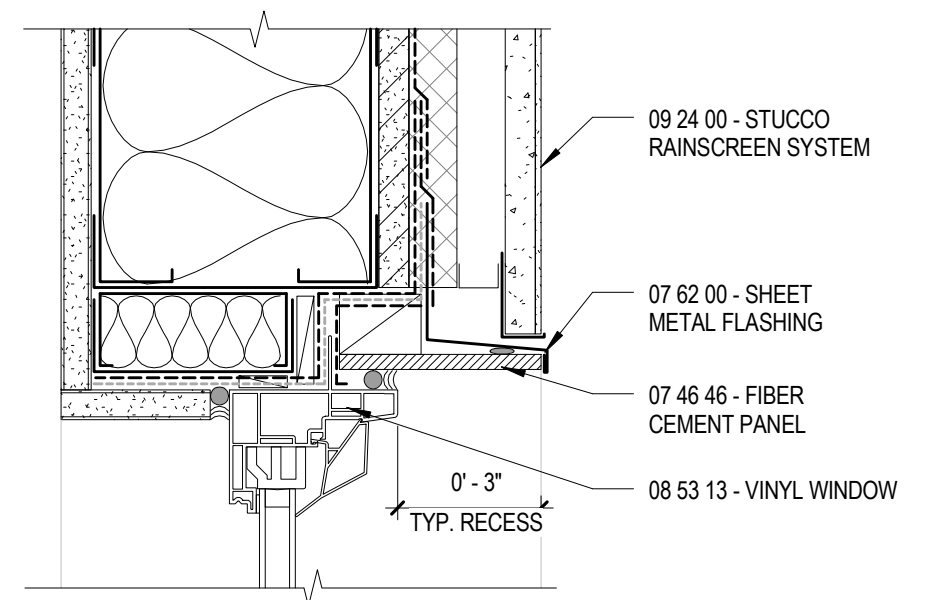
5



WINDOW HEAD @ METAL LOUVER

3" = 1'-0"

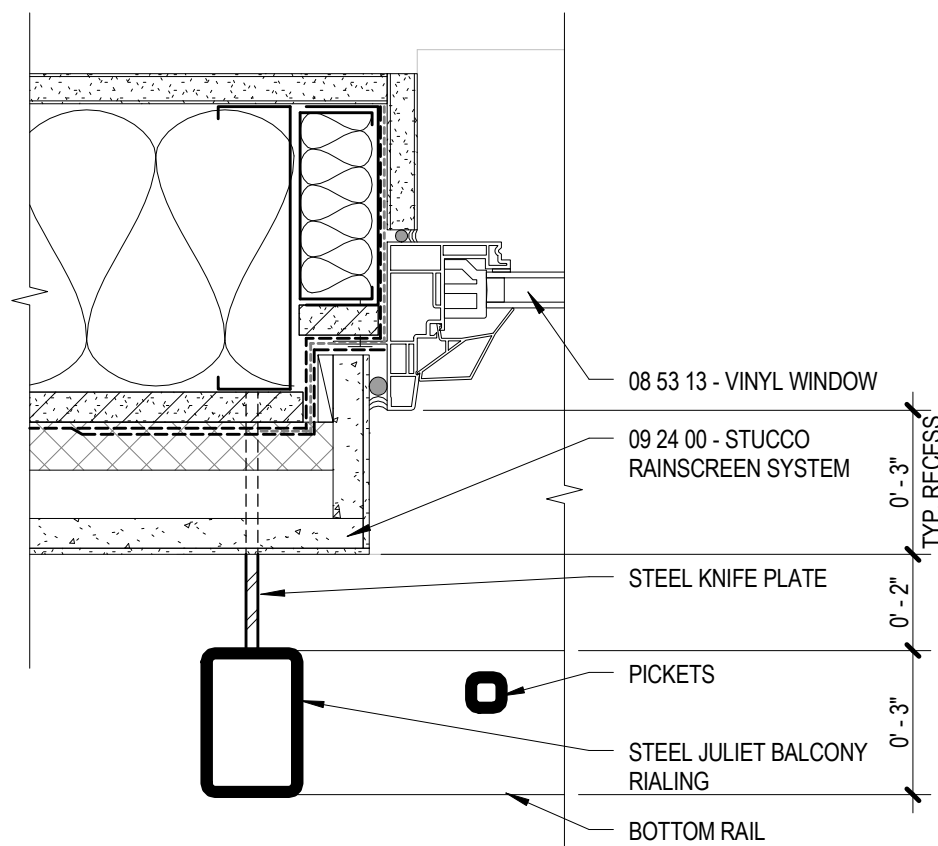
3



WINDOW HEAD @ STUCCO

3" = 1'-0"

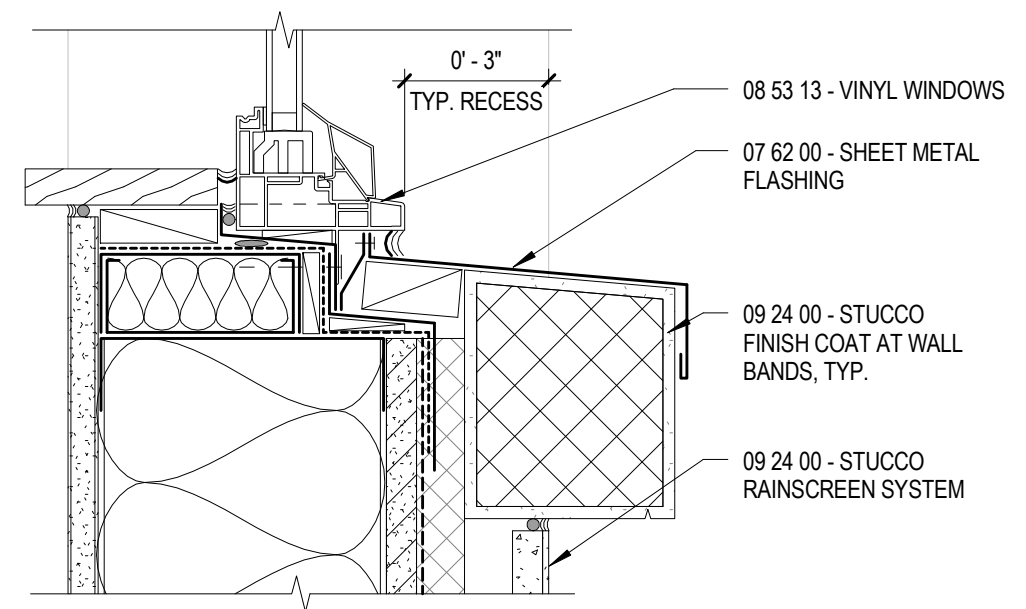
1



WINDOW JAMB @ STUCCO

3" = 1'-0"

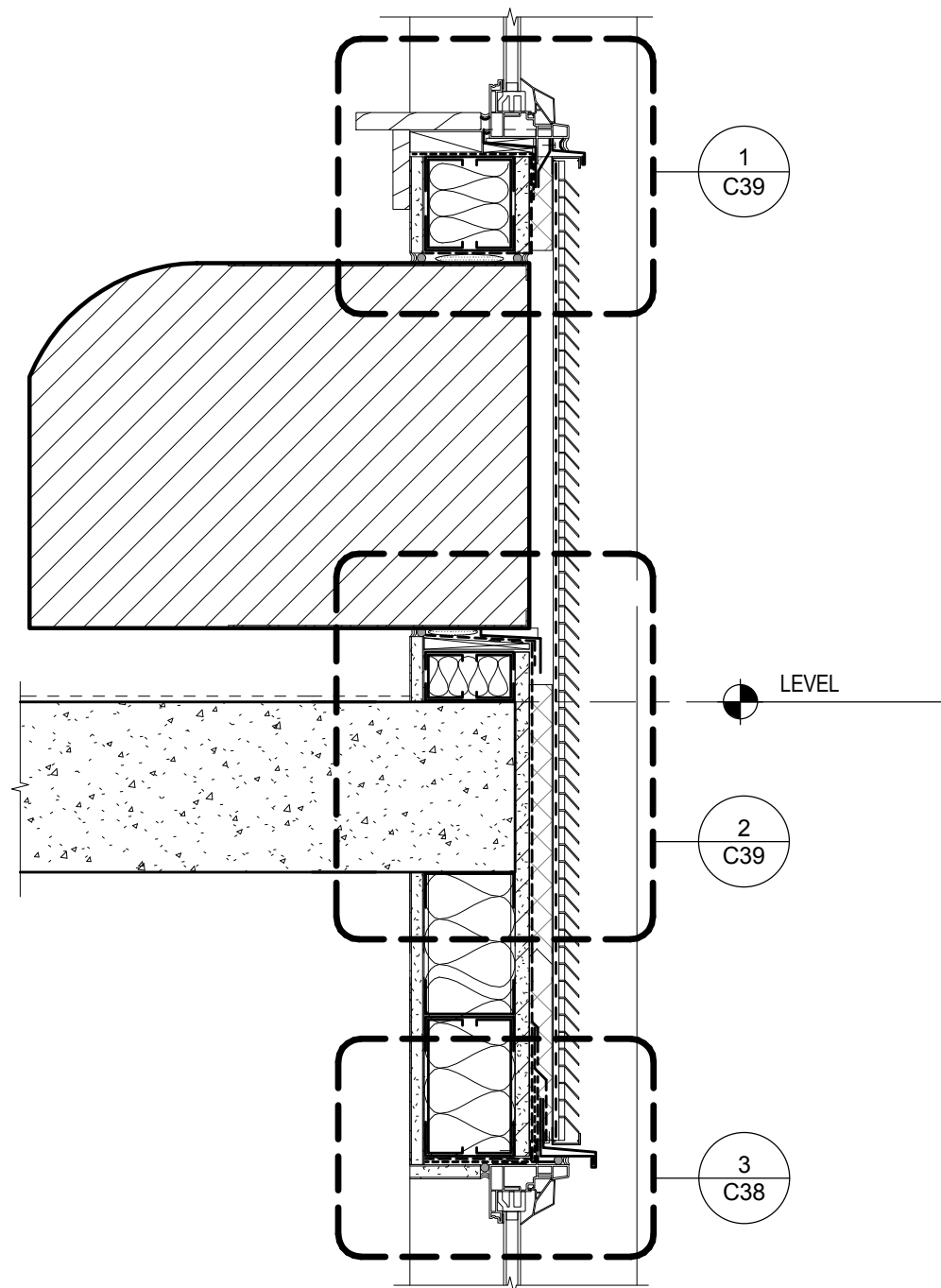
4



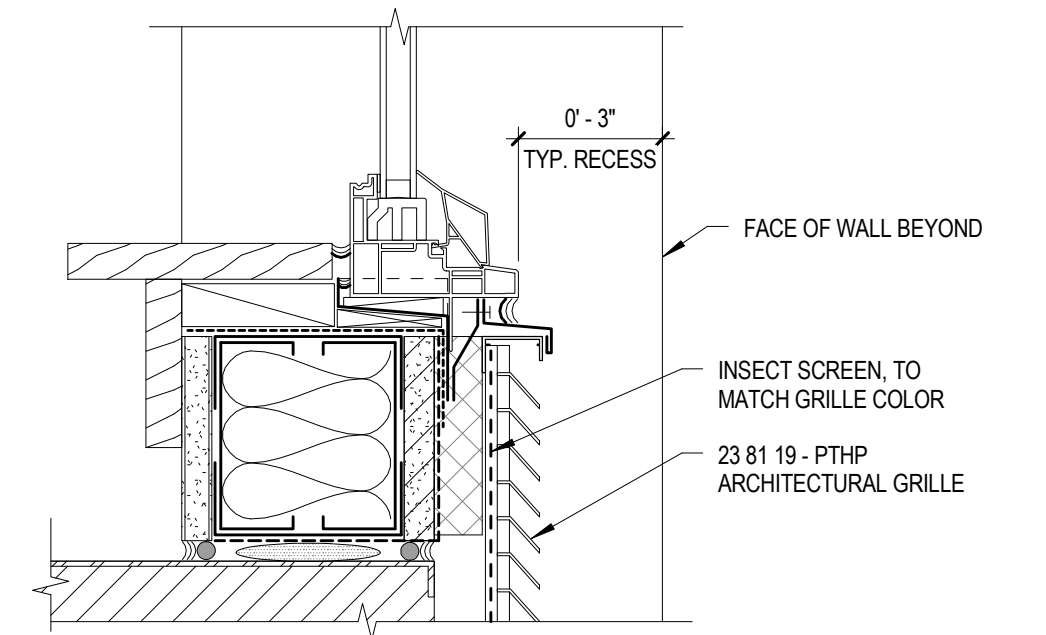
WINDOW SILL @ STUCCO LEDGE

3" = 1'-0"

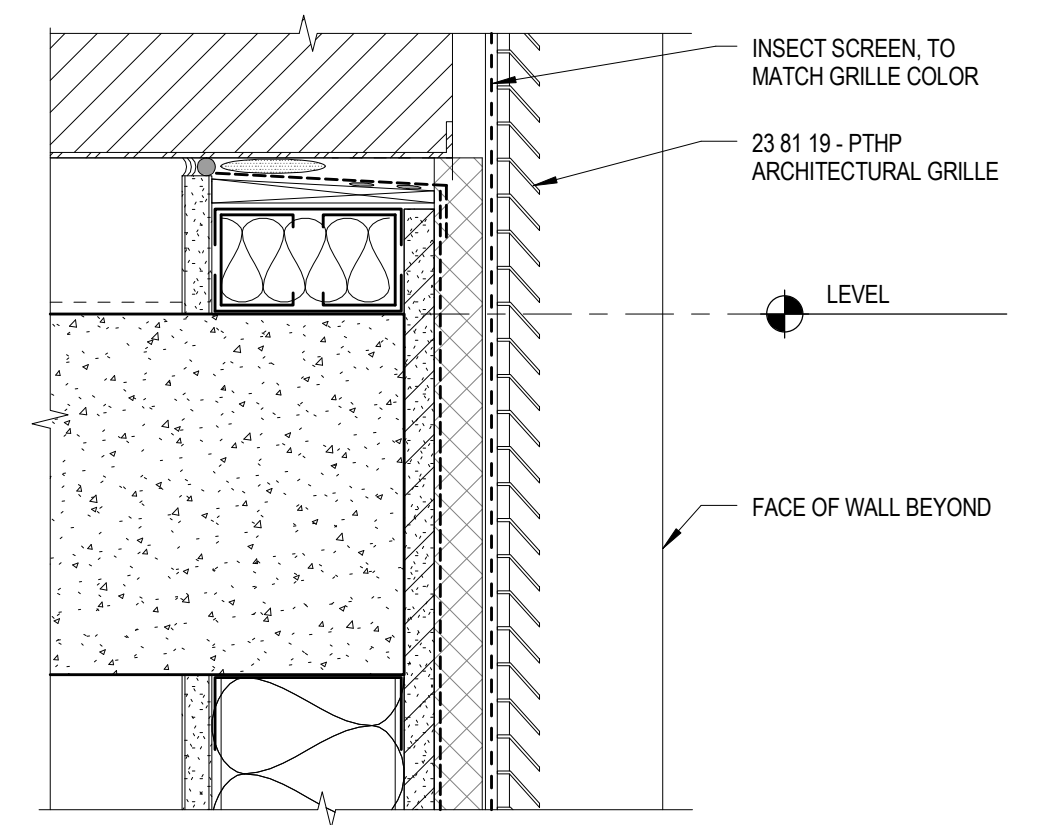
2



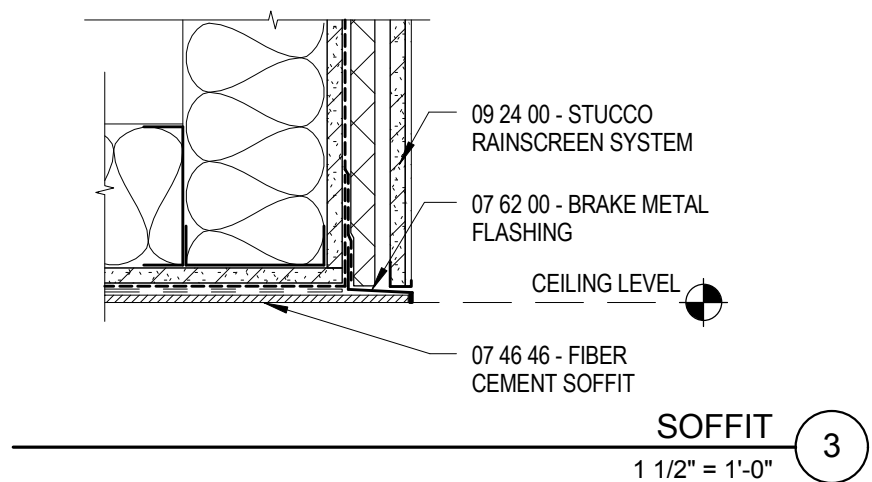
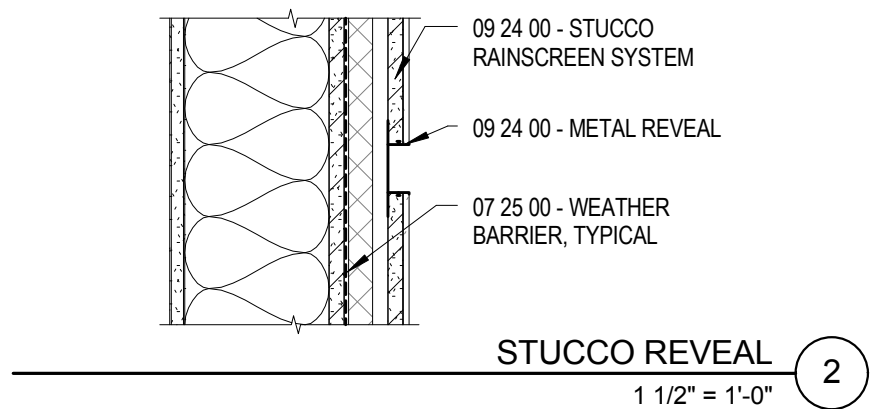
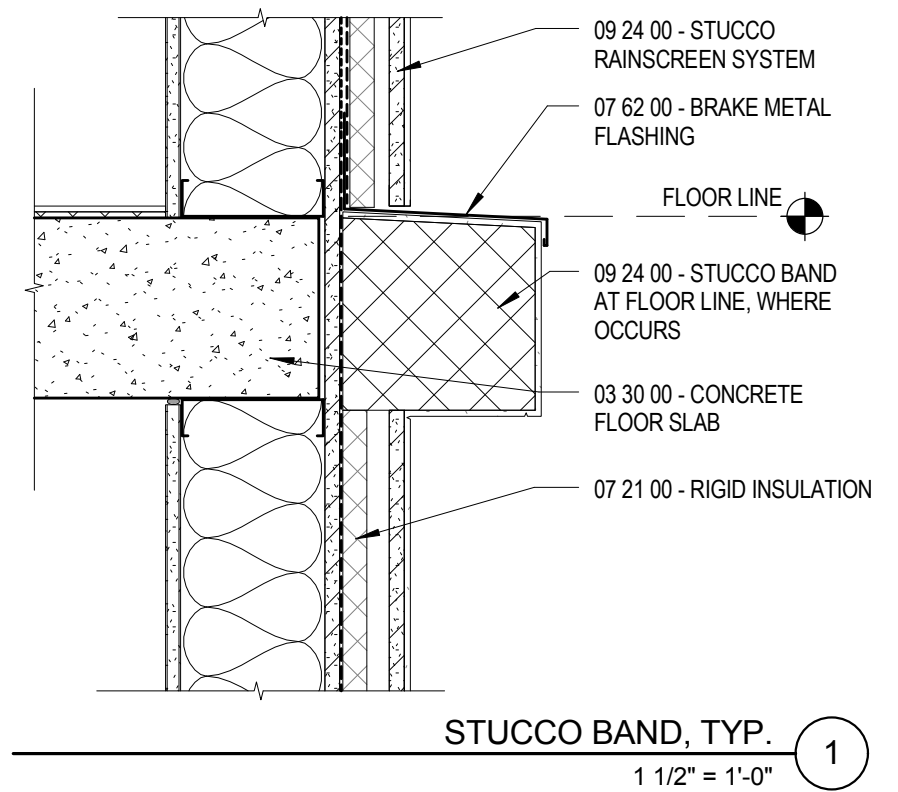
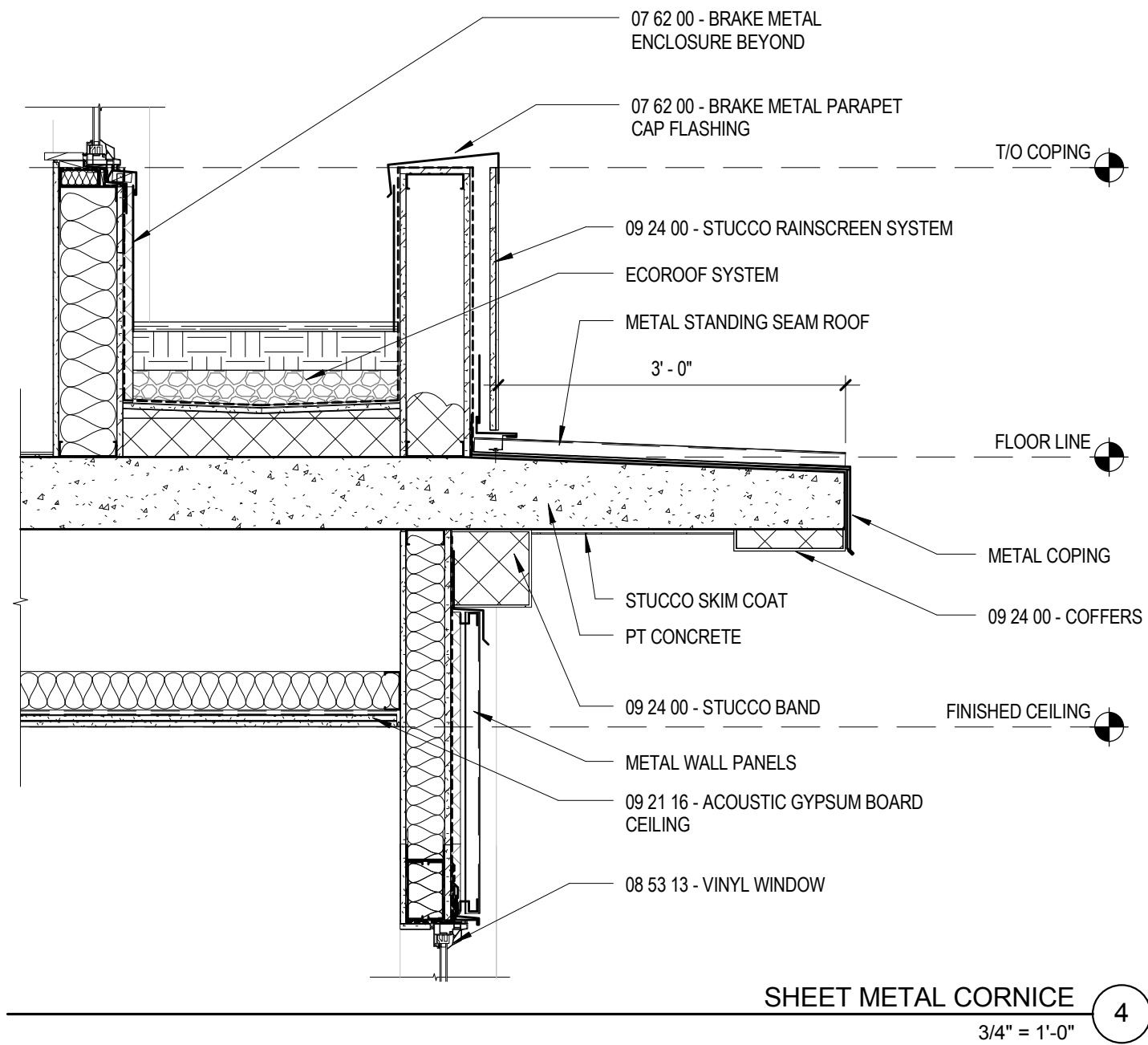
PTHP OVERALL
1 1/2" = 1'-0" 3

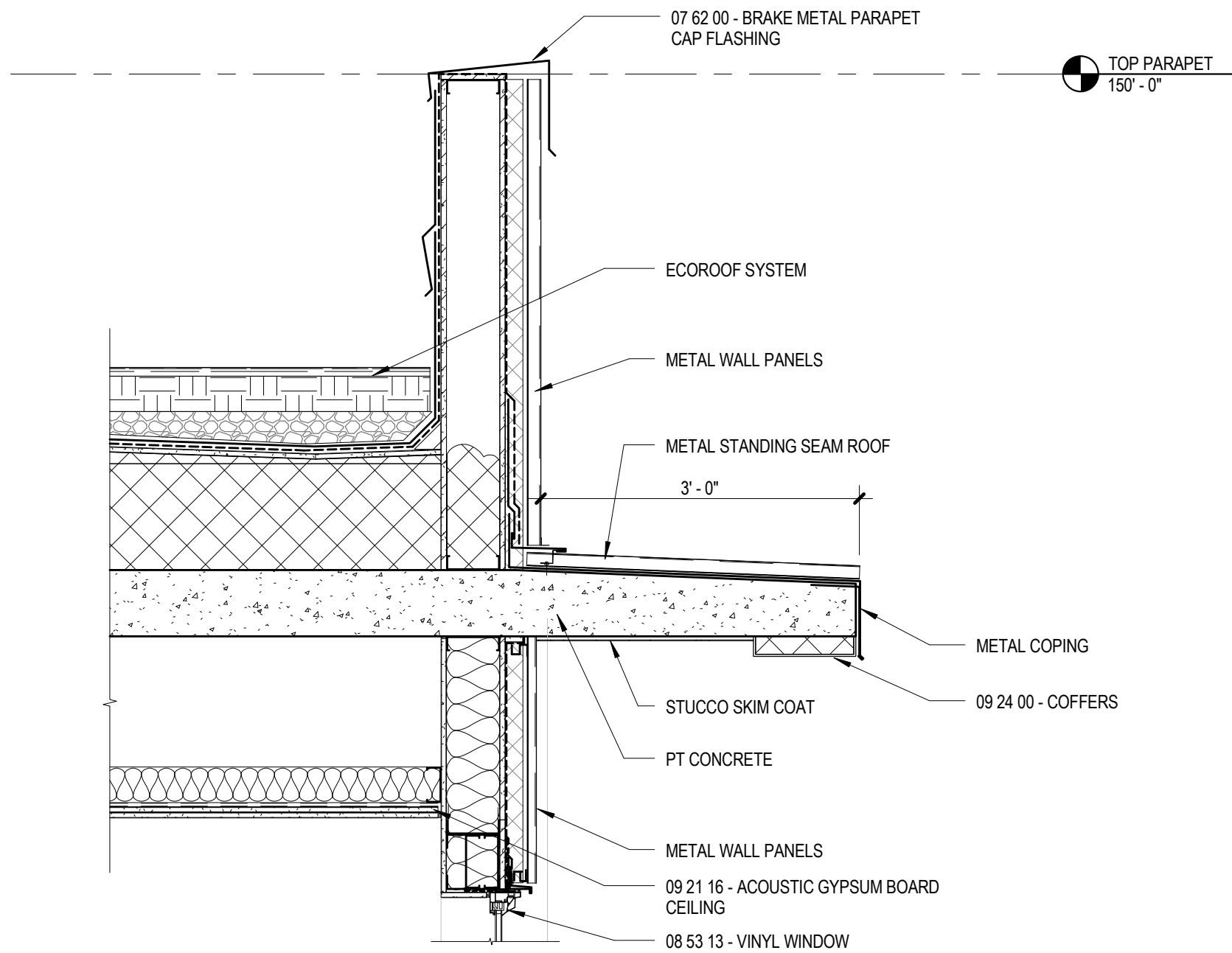


WINDOW SILL @ PTHP 1
3" = 1'-0"

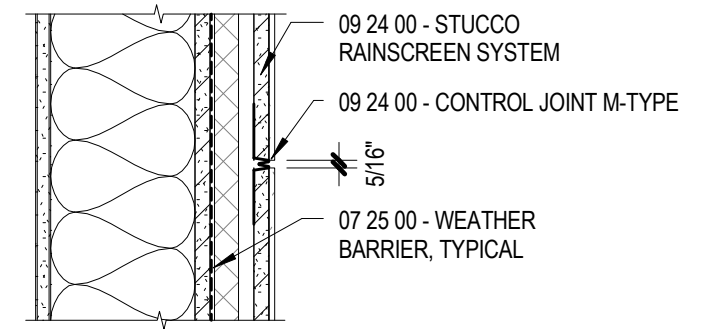


PTHP SILL 2
3" = 1'-0"

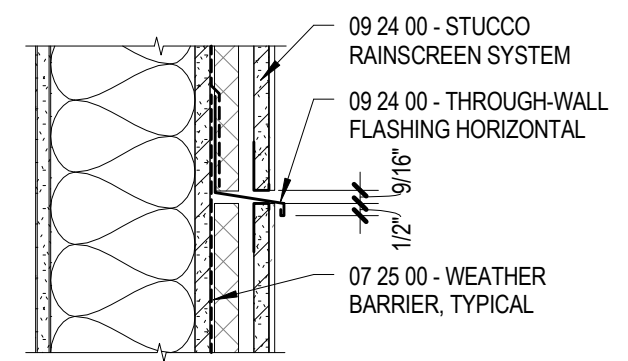




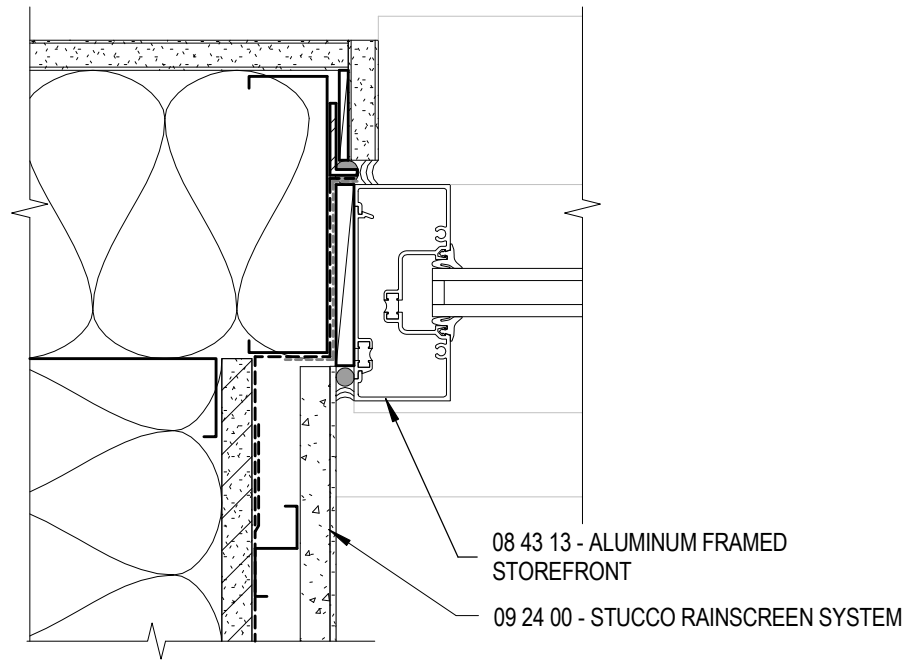
PENTHOUSE ROOF PARAPET & CORNICE DETAIL 3
 3/4" = 1'-0"



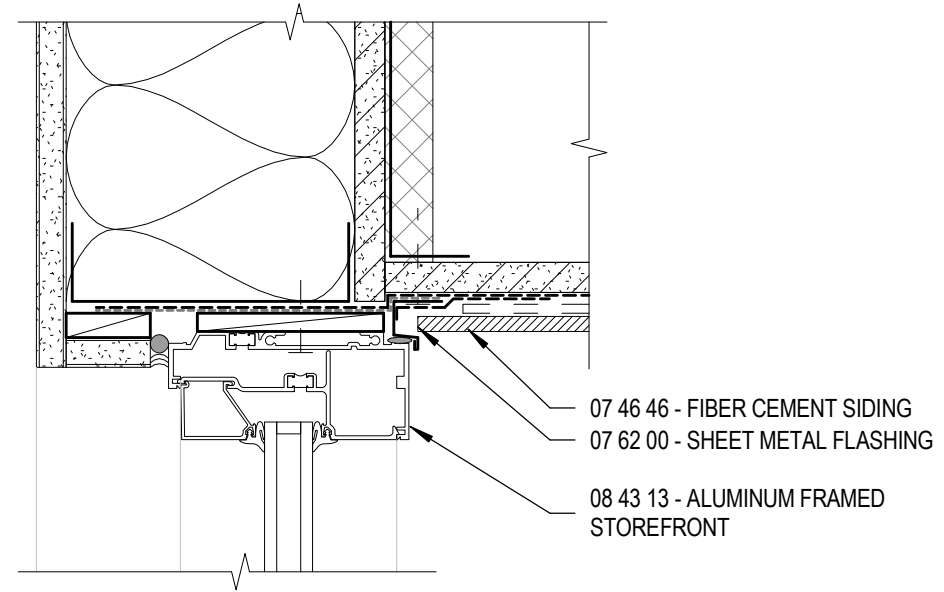
STUCCO - CONTROL JOINT 1
 1 1/2" = 1'-0"



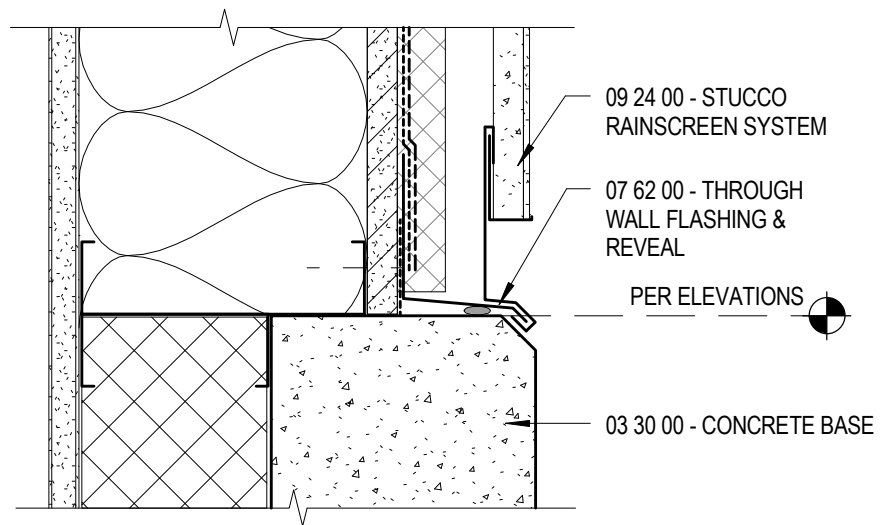
STUCCO - EXPANSION JOINT 2
 1 1/2" = 1'-0"



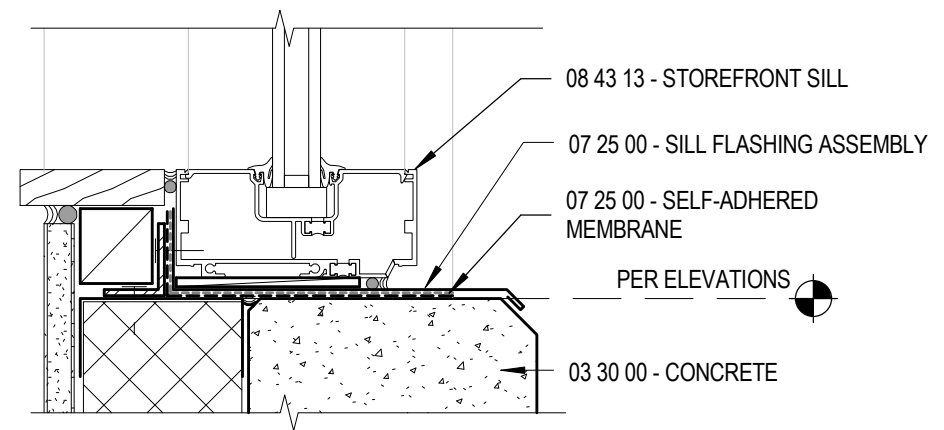
STOREFRONT JAMB @ STUCCO 3
3" = 1'-0"



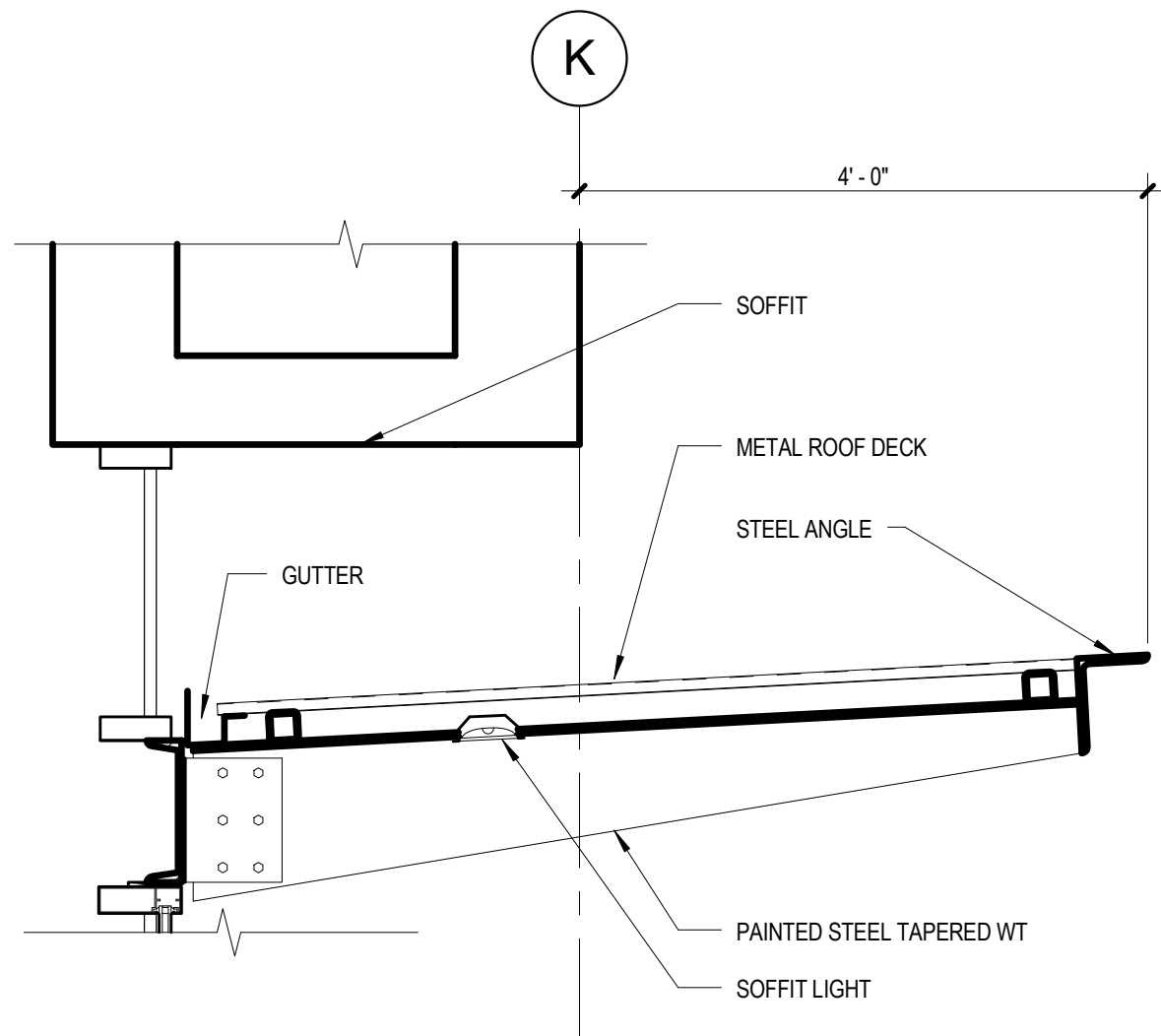
STOREFRONT HEAD @ SOFFIT 1
3" = 1'-0"



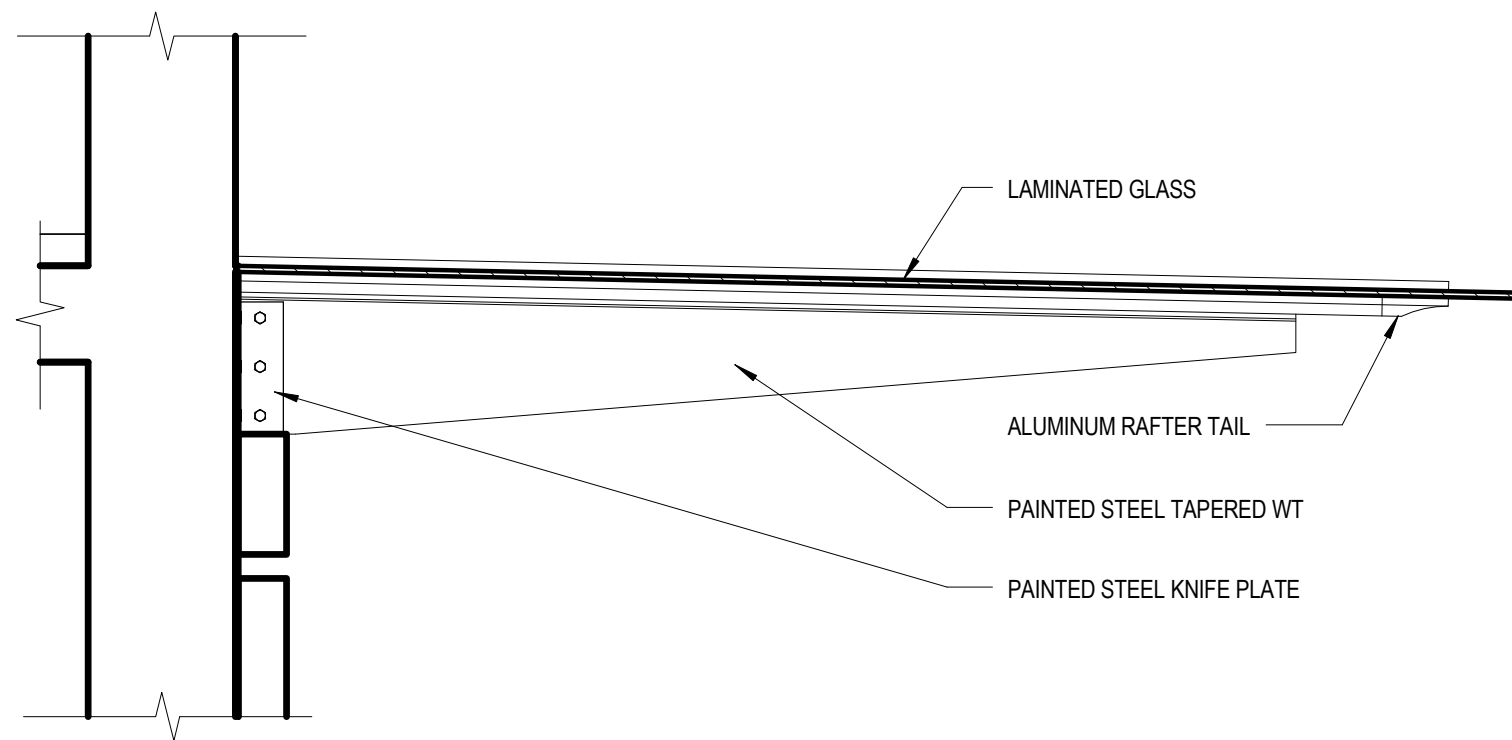
STUCCO @ CONC. BASE 4
3" = 1'-0"



STOREFRONT SILL @ CONC. BASE 2
3" = 1'-0"



CANOPY 2 SECTION 3
 3/4" = 1'-0"



GLASS CANOPY 1 SECTION 1
 3/4" = 1'-0"



FIXTURE TYPE SF1 & SF2
WALL-MOUNTED STRIP



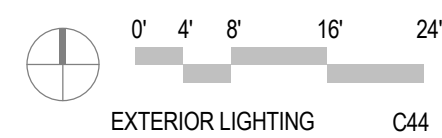
FIXTURE TYPE SD1
RECESSED SOFFIT

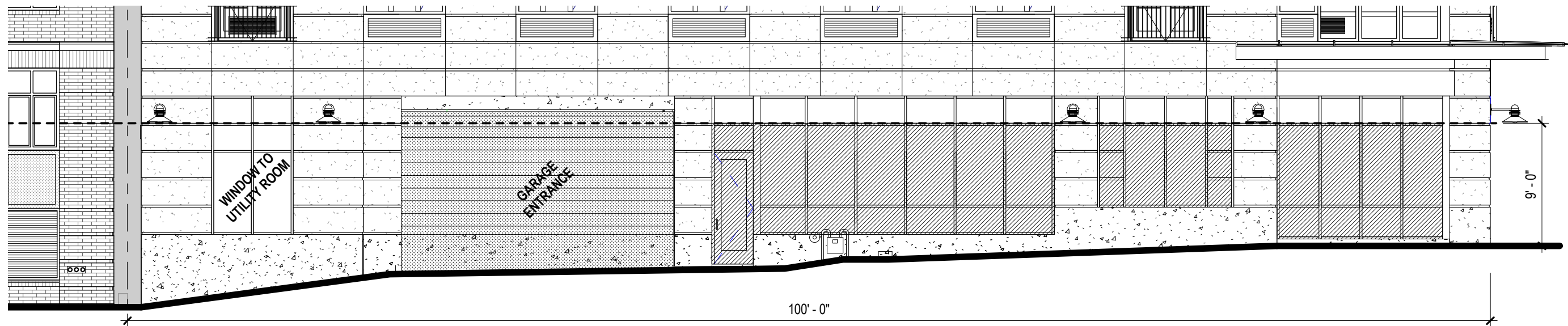


FIXTURE TYPE SG1
WALL-MOUNTED



FIXTURE TYPE SC1
WALL-MOUNTED





GROUND FLOOR WINDOW STANDARDS:

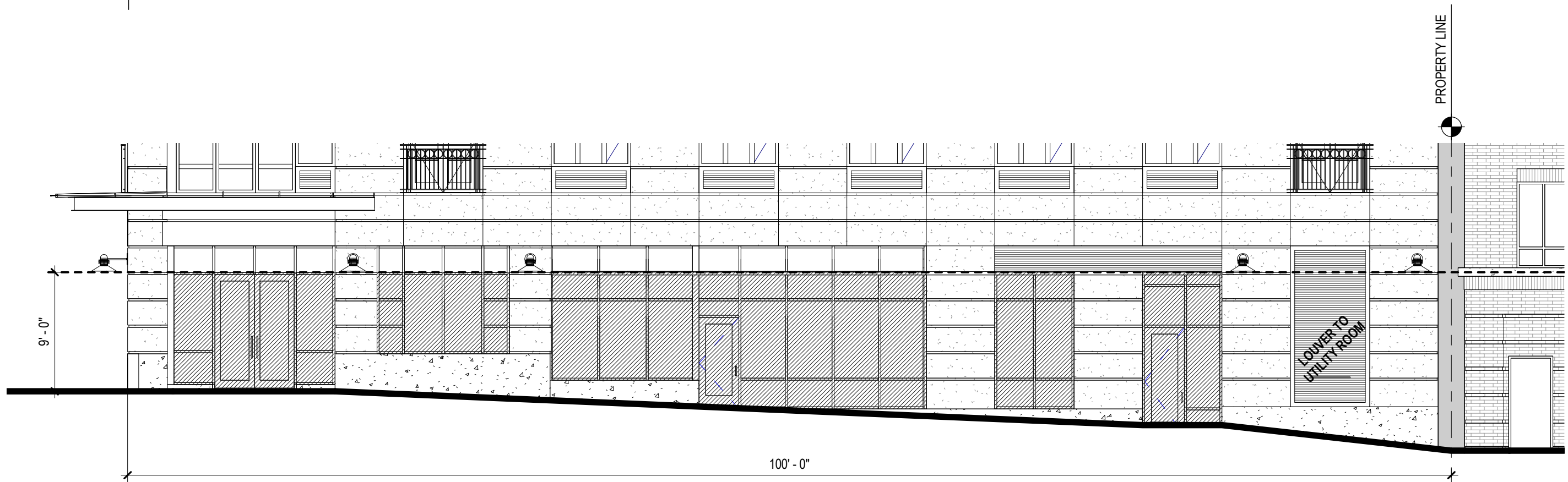
	REQUIRED:	PROPOSED:
WINDOW LENGTH (MIN 50% WINDOW LENGTH PER TOTAL GROUND LEVEL WALL LENGTH)	50'	50'
WINDOW AREA (MIN 25% WINDOW AREA PER TOTAL GROUND LEVEL WALL AREA)	270 SF	374 SF

GROUND FLOOR GLAZING - SW 12TH

1/8" = 1'-0"

2

PROPERTY LINE



GROUND FLOOR WINDOW STANDARDS:

	REQUIRED:	PROPOSED:
WINDOW LENGTH (MIN 50% WINDOW LENGTH PER TOTAL GROUND LEVEL WALL LENGTH)	50'	63'-2"
WINDOW AREA (MIN 25% WINDOW AREA PER TOTAL GROUND LEVEL WALL AREA)	263 SF	566 SF

GROUND FLOOR GLAZING - SW MARKET

1/8" = 1'-0"

1

