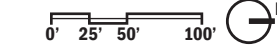




LEGEND
 — PROPOSED PROJECT



OWNER:



SONOMA RACEWAY

PROJECT ARCHITECT:

PERKINS — EASTMAN

PERKINS EASTMAN
 115 5th Ave., New York, NY 10003
 (T) 212.353.7200

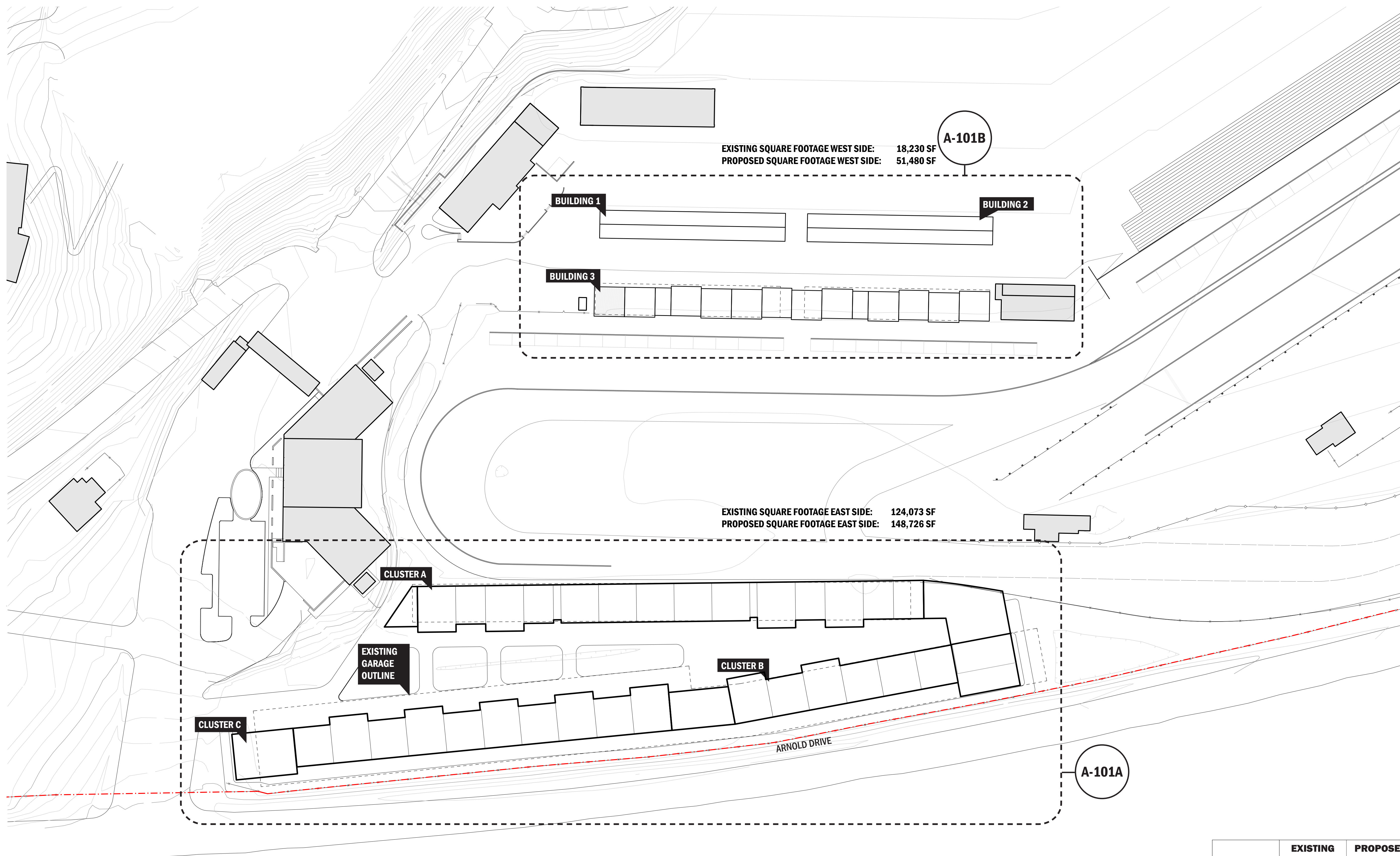
SONOMA RACEWAY

SONOMA RACEWAY
 29355 Arnold Dr., Sonoma, CA 95476

A-001

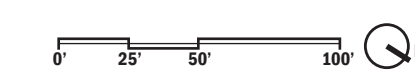
NOTES:
 1. PAPER PRINTED AT 24"x36"

SCALE:
 1/128" = 1'-0"



	EXISTING	PROPOSED
NASCAR GARAGE	20	20
PRIVATE	61	42

LEGEND
 - - - PROPERTY LINE / EXISTING FENCE
 - - - DRAWING CALLOUT



OWNER:

PROJECT ARCHITECT:

PERKINS — EASTMAN

PERKINS EASTMAN
 115 5th Ave., New York, NY 10003
 (T) 212.353.7200

SITE PLAN

SONOMA RACEWAY

29355 Arnold Dr., Sonoma, CA 95476

A-002

NOTES:
 1. PAPER PRINTED AT 24"x36"

SCALE:
 1/64" = 1'-0"



OWNER:



PROJECT ARCHITECT:

**PERKINS —
EASTMAN**

PERKINS EASTMAN
115 5th Ave., New York, NY 10003
(T) 212.353.7200

CLUSTER A & B: VIGNETTE

SONOMA RACEWAY
29355 Arnold Dr., Sonoma, CA 95476

A-003

NOTES:

1. PAPER PRINTED AT 24"x36"



OWNER:



PROJECT ARCHITECT:

**PERKINS —
EASTMAN**

PERKINS EASTMAN
115 5th Ave., New York, NY 10003
(T) 212.353.7200

CLUSTER A & B: VIGNETTE

SONOMA RACEWAY
29355 Arnold Dr., Sonoma, CA 95476

A-004

NOTES:

1. PAPER PRINTED AT 24"x36"



OWNER:



PROJECT ARCHITECT:

**PERKINS —
EASTMAN**

PERKINS EASTMAN
115 5th Ave., New York, NY 10003
(T) 212.353.7200

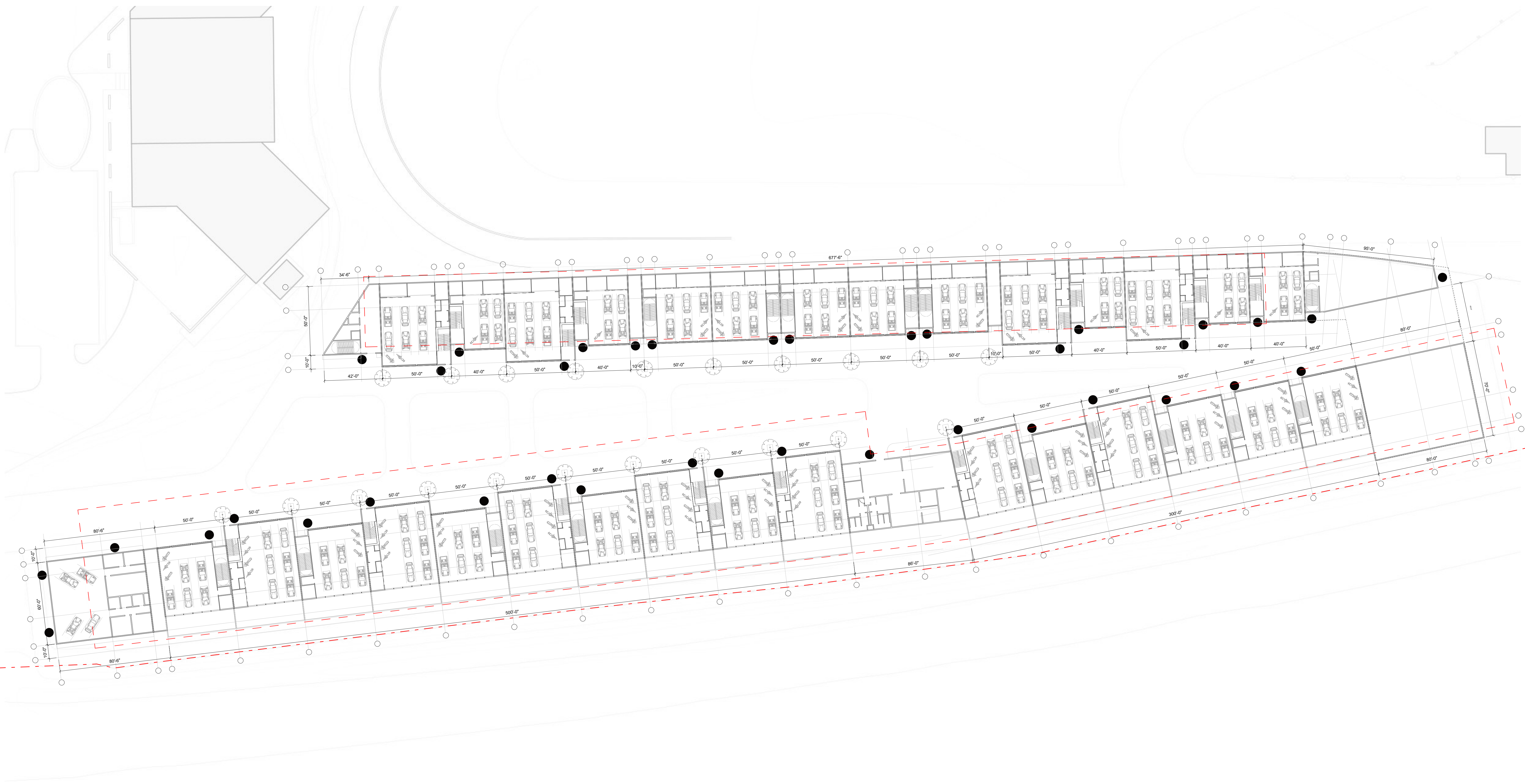
CLUSTER A: VIGNETTE

SONOMA RACEWAY
29355 Arnold Dr., Sonoma, CA 95476

A-005

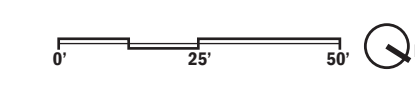
NOTES:

1. PAPER PRINTED AT 24"x36"



LEGEND

- - - PROPERTY LINE / EXISTING FENCE
- - - EXISTING BUILDING LINE
- LIGHTING



OWNER:



PROJECT ARCHITECT:

PERKINS — EASTMAN

PERKINS EASTMAN
115 5th Ave., New York, NY 10003
(T) 212.353.7200

CLUSTER A, B & C: GROUND FLOOR LIGHTING PLAN

SONOMA RACEWAY
29355 Arnold Dr., Sonoma, CA 95476

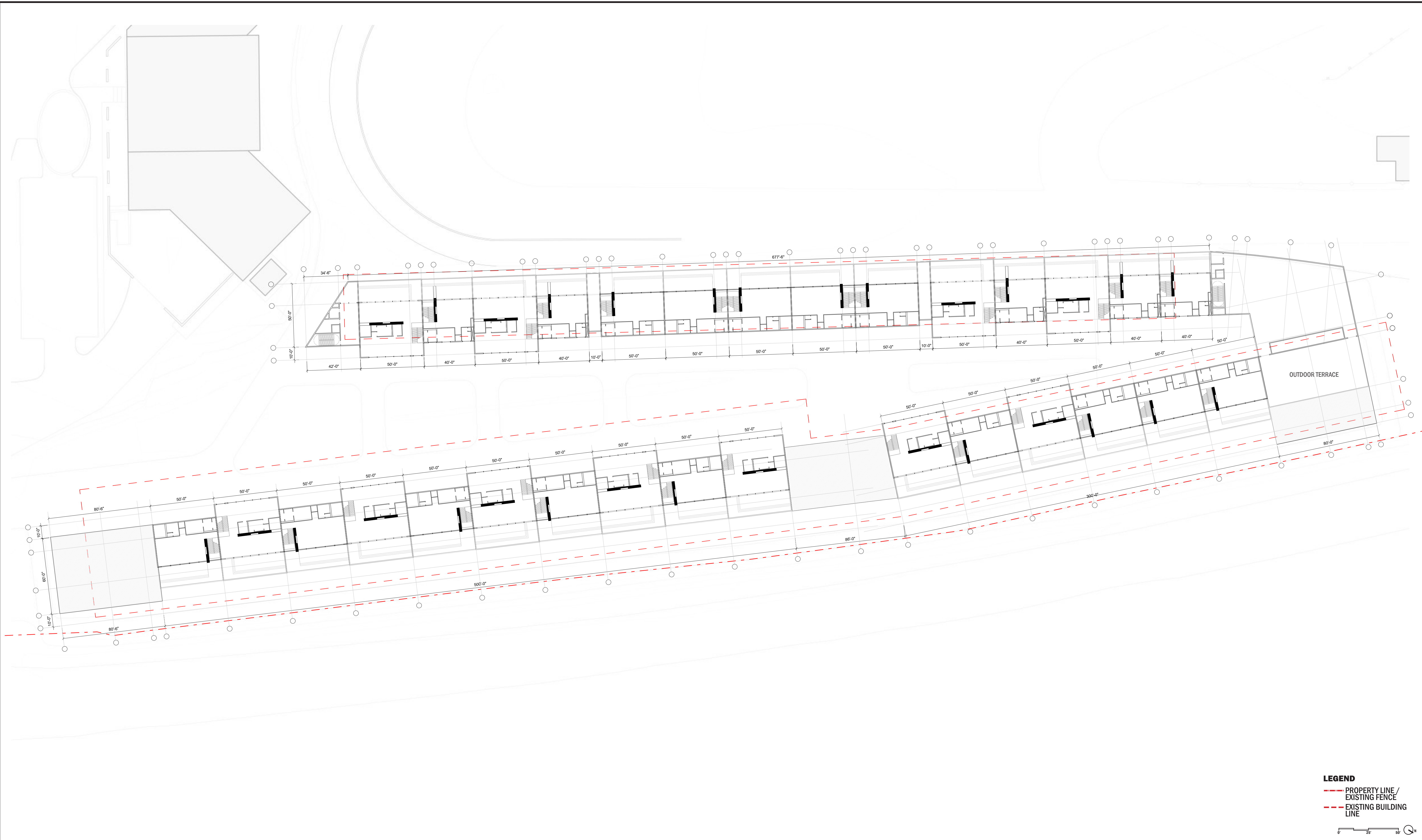
A-101A

NOTES:

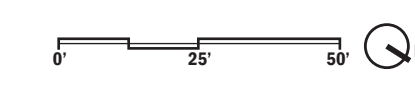
1. PAPER PRINTED AT 24"x36"

SCALE:

1/32" = 1'-0"



LEGEND
 - - - - - PROPERTY LINE / EXISTING FENCE
 - - - - - EXISTING BUILDING LINE



OWNER:
 **SONOMA RACEWAY**

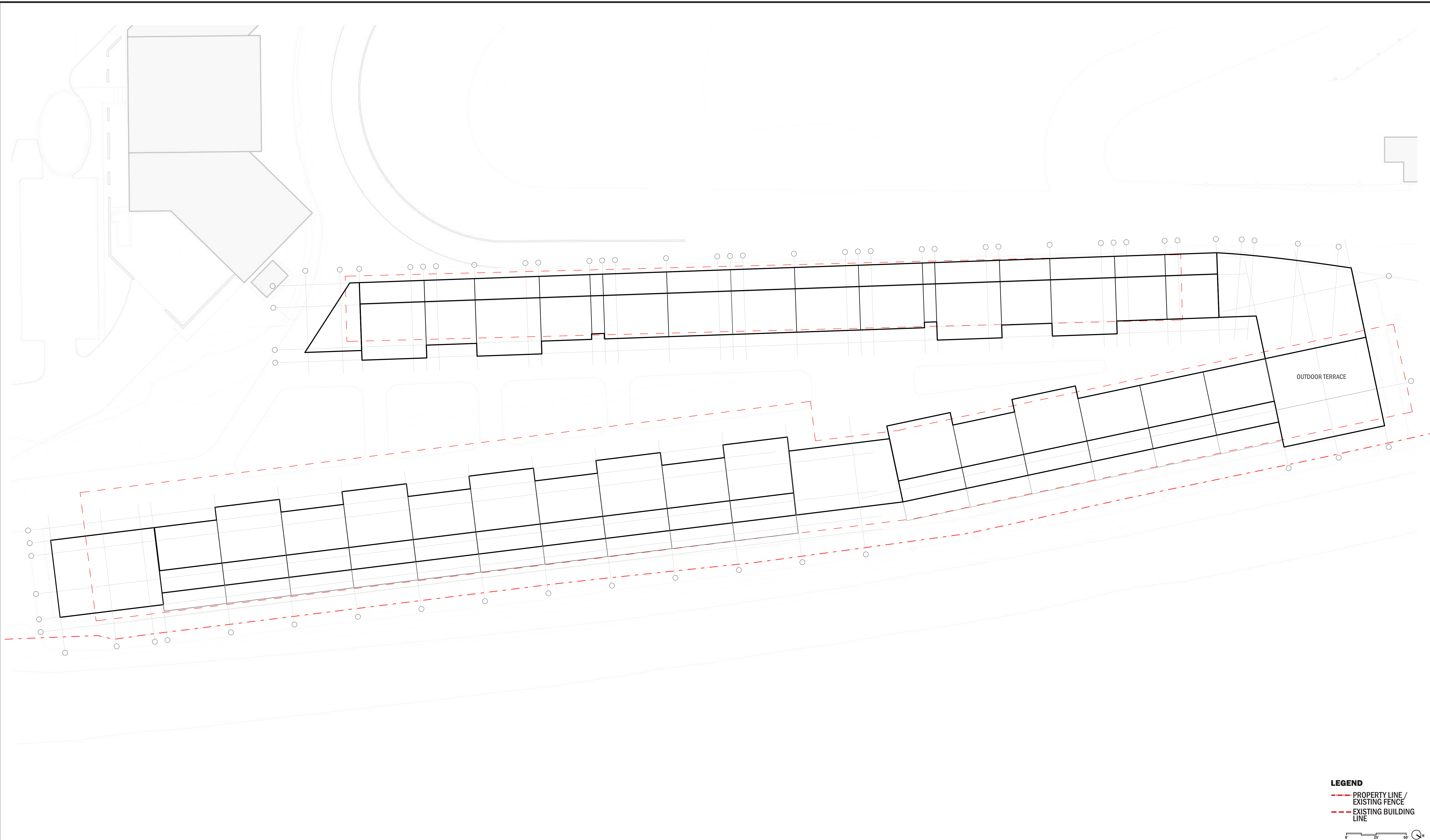
PROJECT ARCHITECT:
PERKINS — EASTMAN
 PERKINS EASTMAN
 115 5th Ave., New York, NY 10003
 (T) 212.353.7200

CLUSTER A, B & C: SECOND FLOOR PLAN
SONOMA RACEWAY
 29355 Arnold Dr., Sonoma, CA 95476

A-102A

NOTES:
 1. PAPER PRINTED AT 24"x36"

SCALE:
 1/32" = 1'-0"



LEGEND

- - - PROPERTY LINE / EXISTING FENCE
- - - EXISTING BUILDING LINE

OWNER:

SONOMA RACEWAY

PROJECT ARCHITECT:

PERKINS — EASTMAN

PERKINS EASTMAN
 115 5th Ave., New York, NY 10003
 (T) 212.353.7200

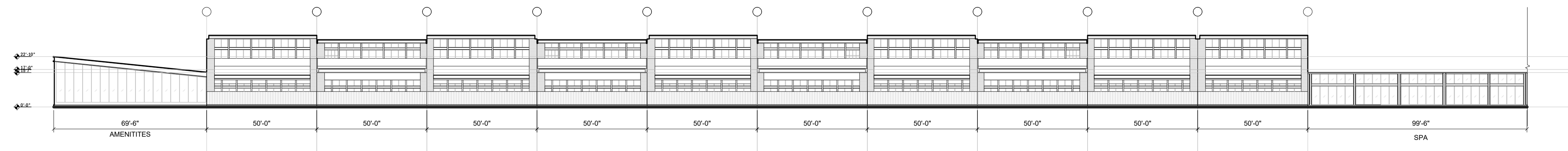
CLUSTER A, B & C: ROOF PLAN

SONOMA RACEWAY
 29355 Arnold Dr., Sonoma, CA 95476

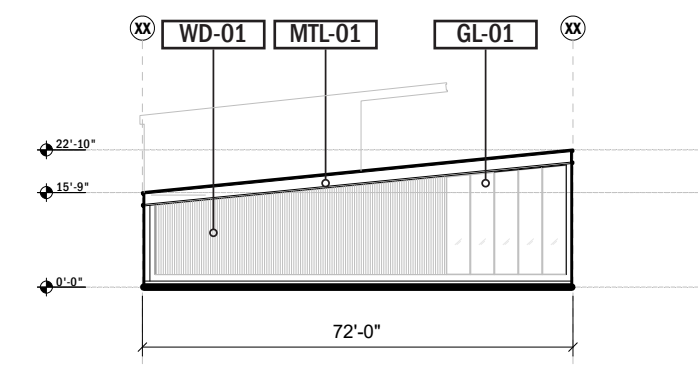
A-103A

NOTES:
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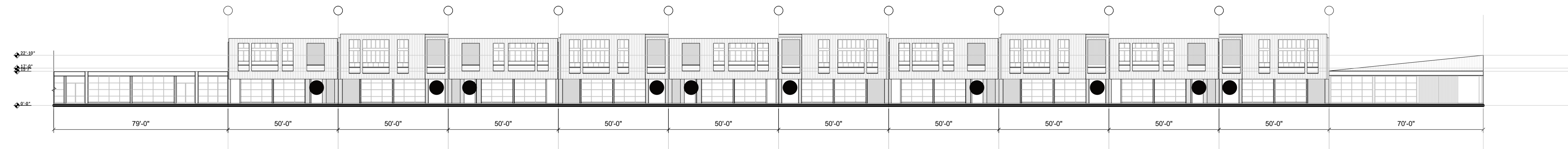
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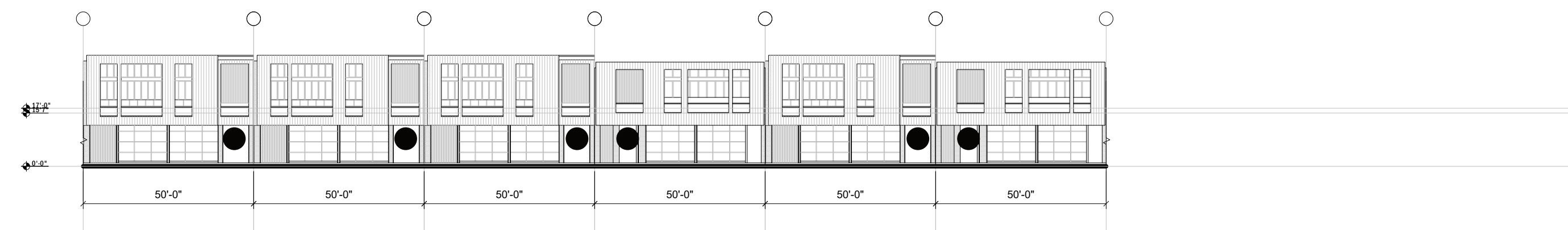
○ **CLUSTER C**
ELEVATION F



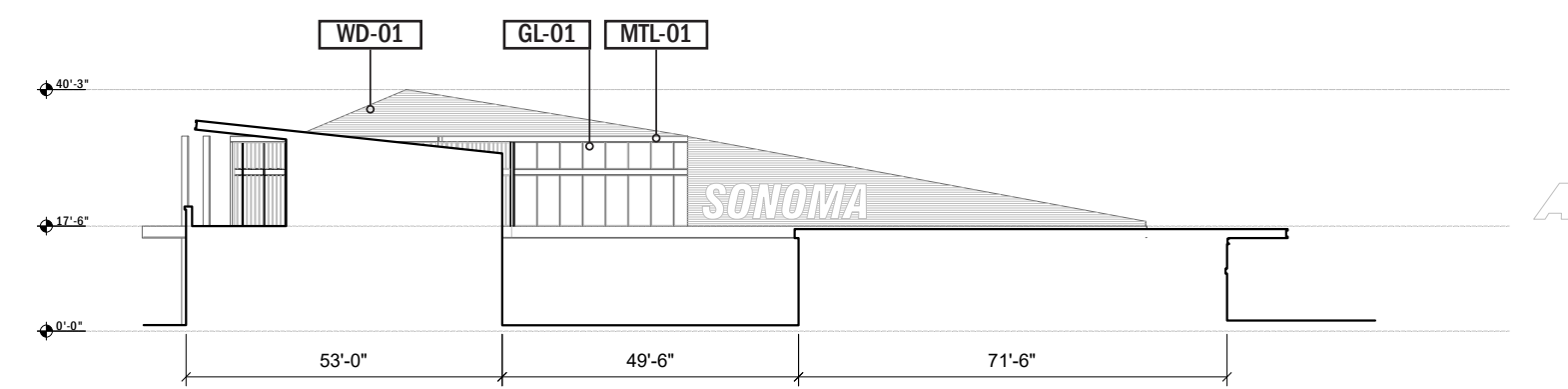
○ **CLUSTER C**
ELEVATION G



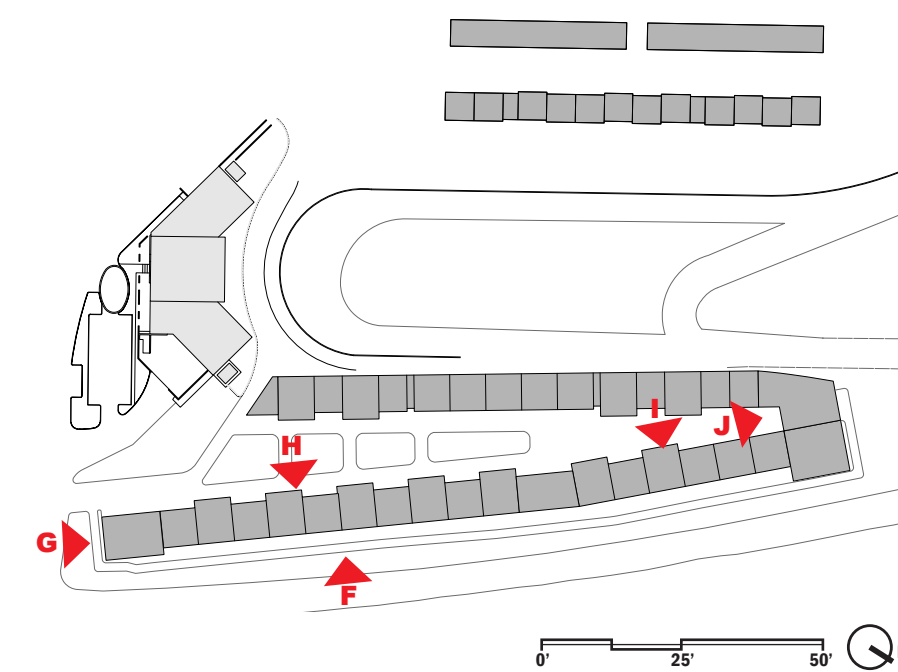
○ **CLUSTER C**
ELEVATION H



○ **CLUSTER B**
ELEVATION I



○ **CLUSTER B**
ELEVATION J



OWNER:



PROJECT ARCHITECT:

**PERKINS —
EASTMAN**

PERKINS EASTMAN
115 5th Ave., New York, NY 10003
(T) 212.353.7200

CLUSTER A, B & C: ELEVATIONS

SONOMA RACEWAY
29355 Arnold Dr., Sonoma, CA 95476

A-202A

NOTES:

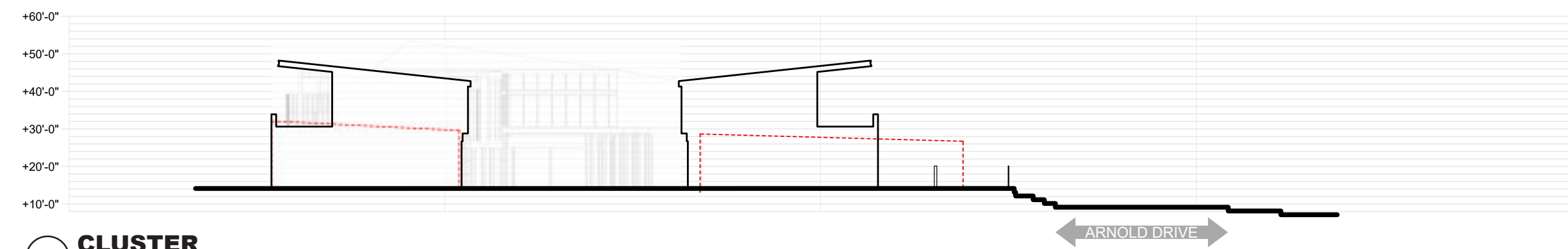
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SCALE:

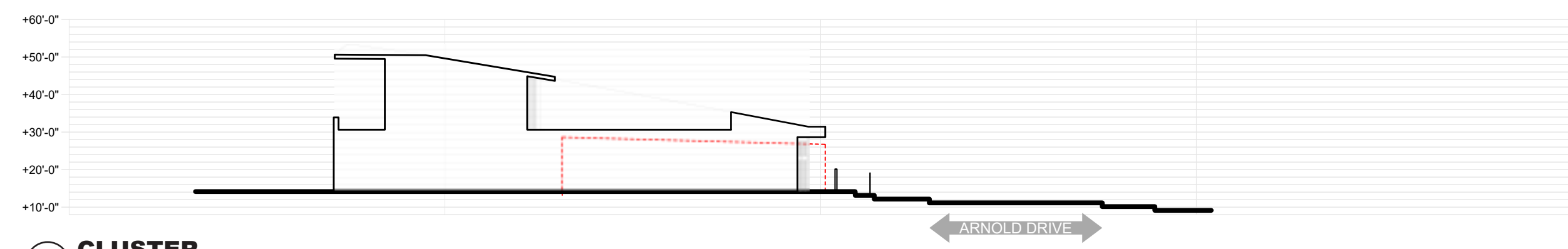
1/32" = 1'-0"



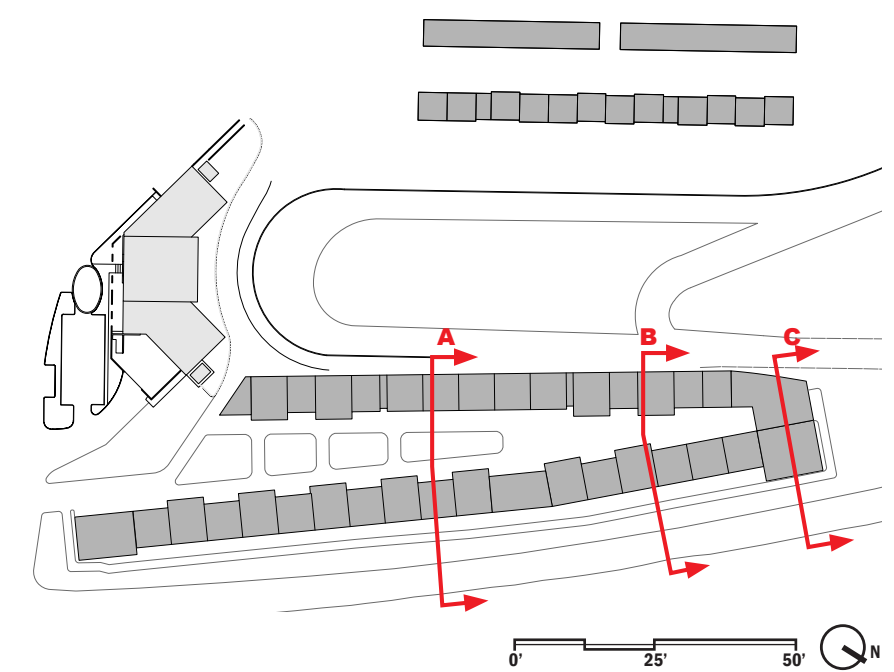
○ CLUSTER SECTION A-A



○ CLUSTER SECTION B-B



○ CLUSTER SECTION C-C



OWNER:



PROJECT ARCHITECT:

PERKINS — EASTMAN

PERKINS EASTMAN
115 5th Ave., New York, NY 10003
(T) 212.353.7200

CLUSTER A, B & C: SECTIONS

SONOMA RACEWAY
29355 Arnold Dr., Sonoma, CA 95476

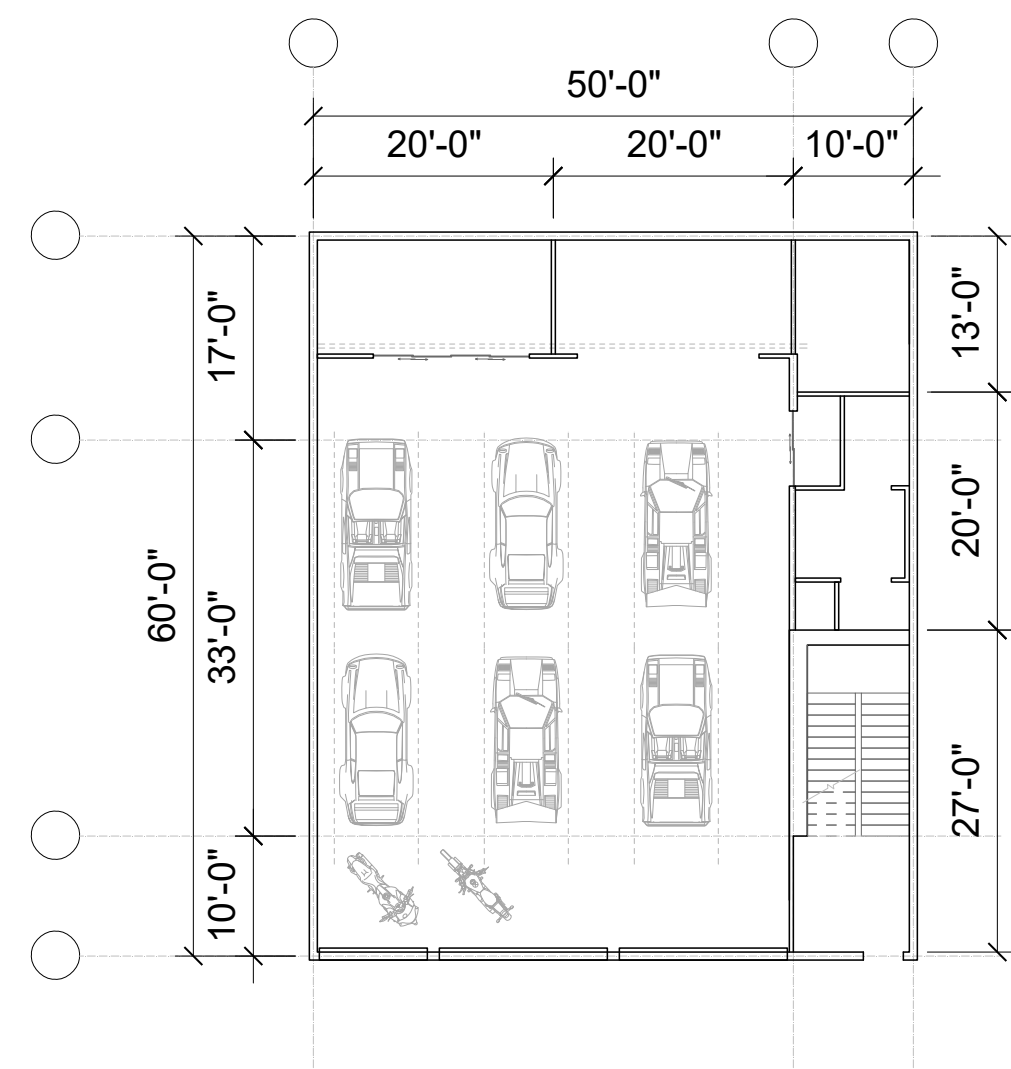
A-301A

NOTES:

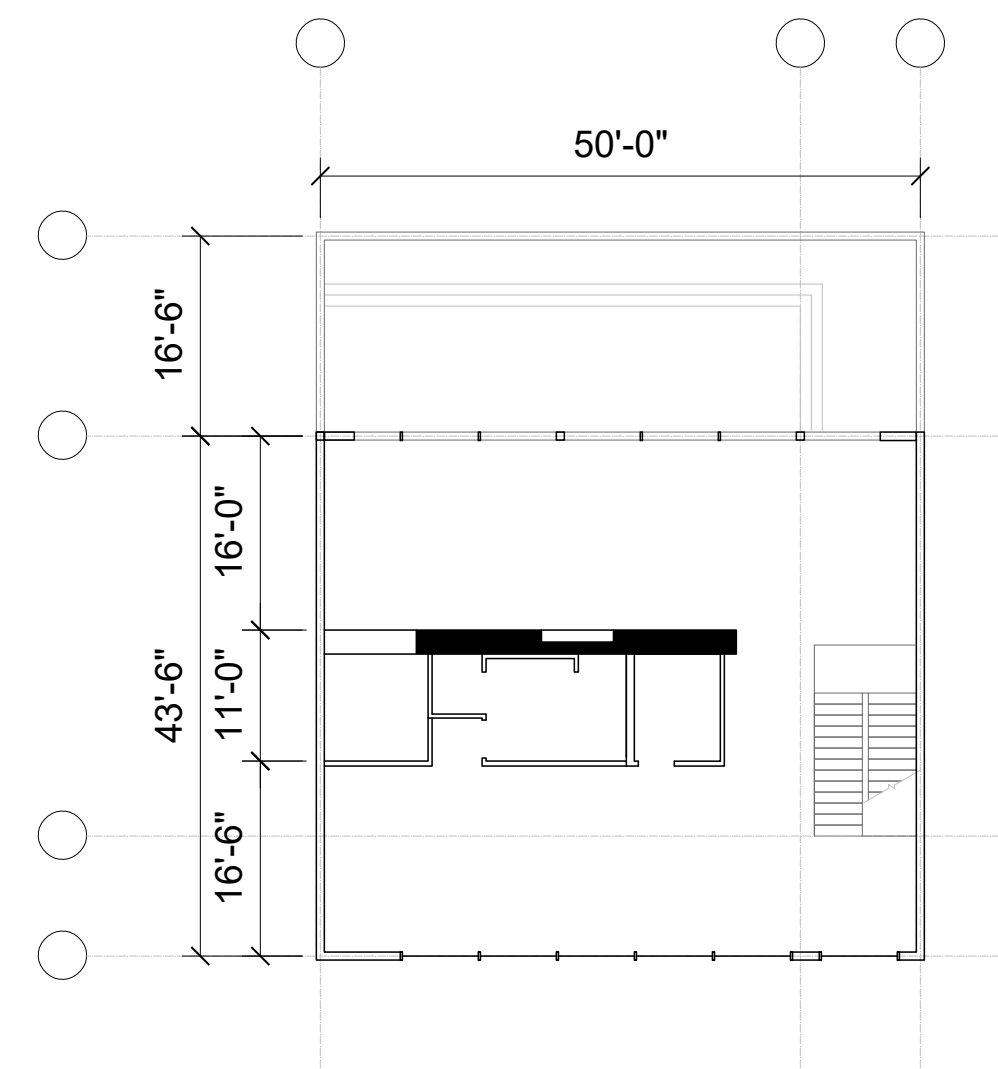
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SCALE:

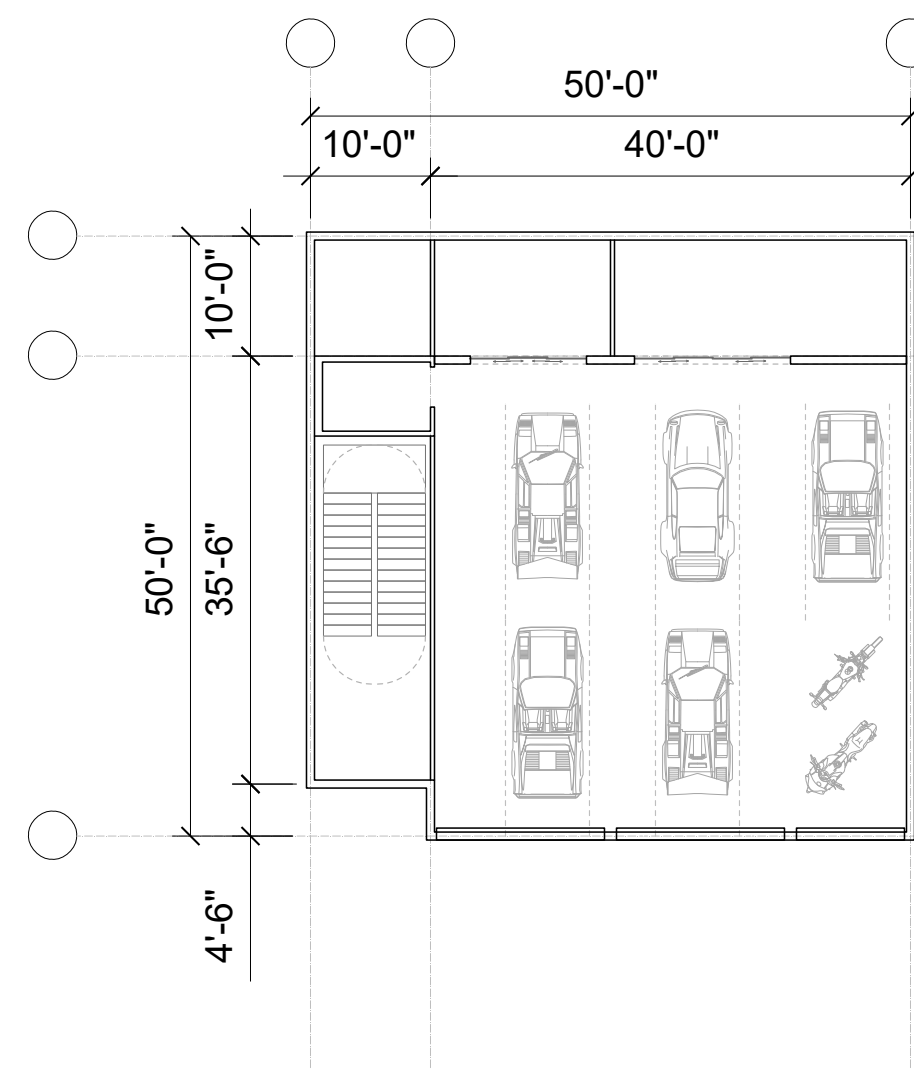
1/32" = 1'-0"



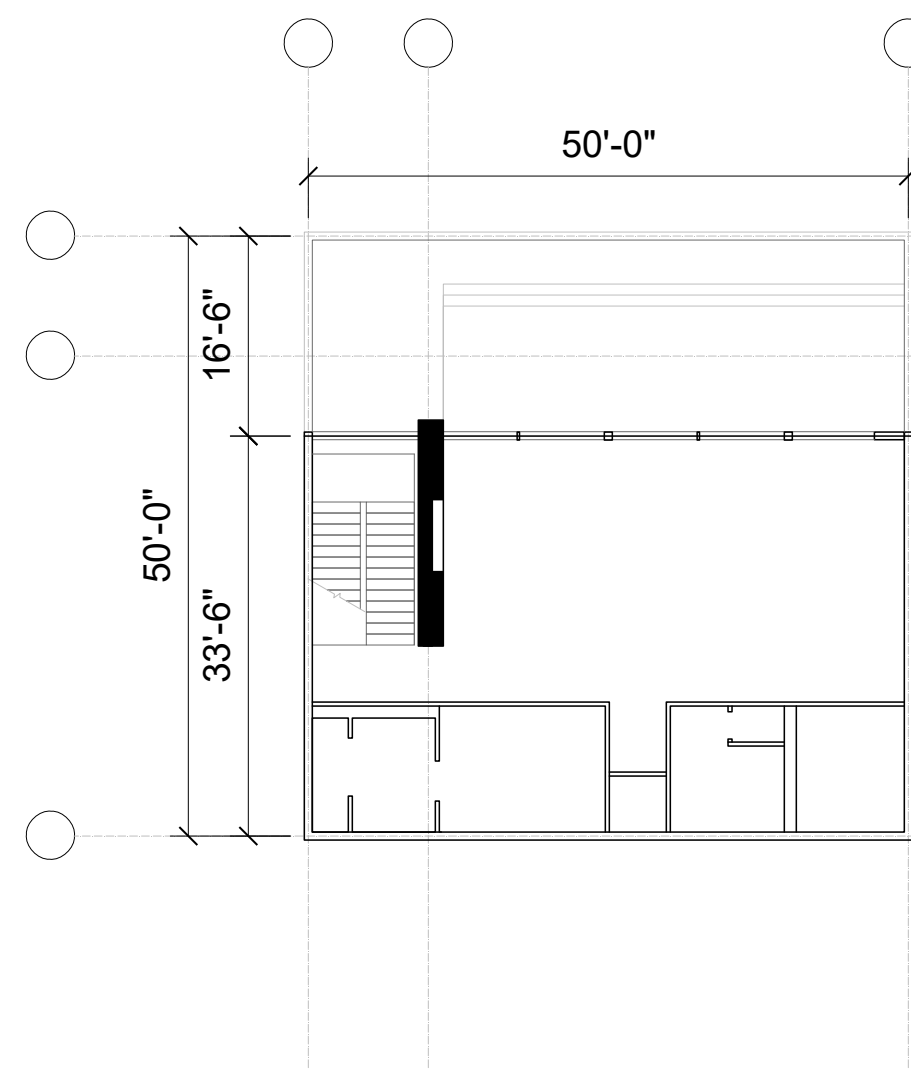
○ **CLUSTER UNIT TYPE A**
GROUND FLOOR PLAN



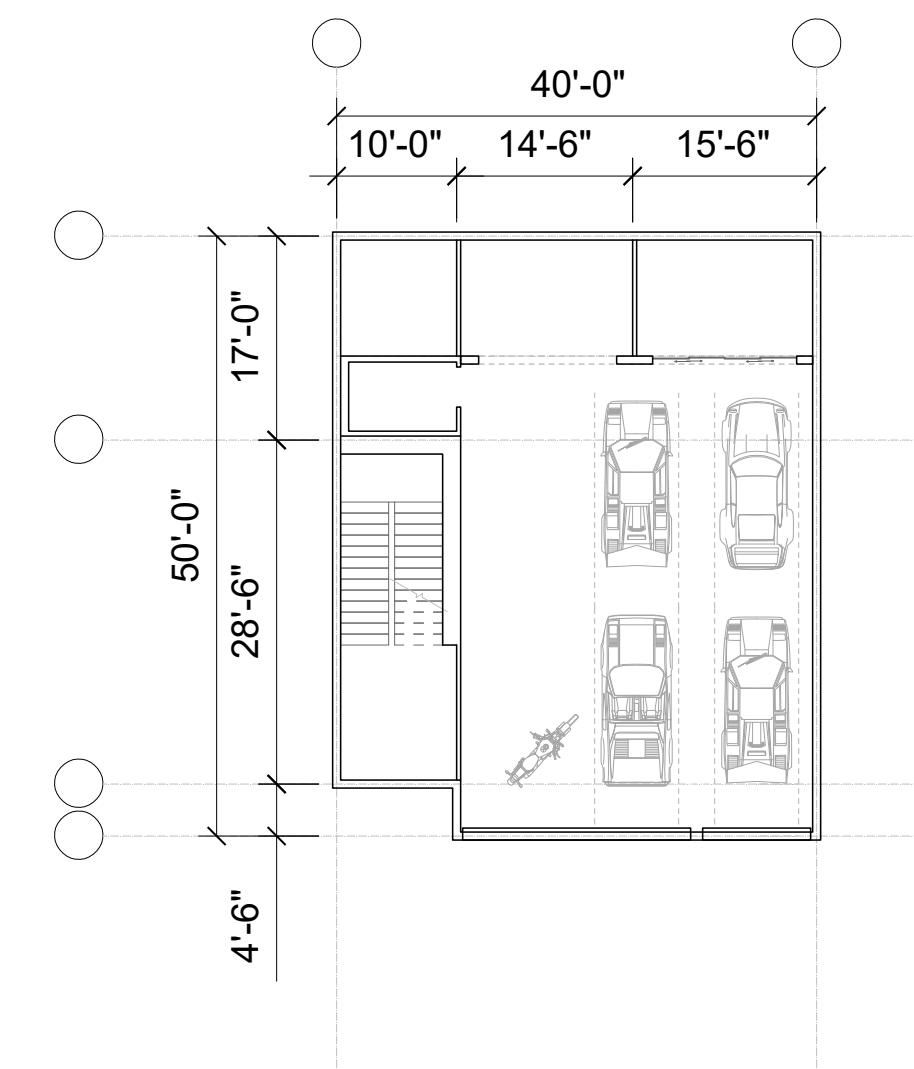
○ **CLUSTER UNIT TYPE A**
SECOND FLOOR PLAN



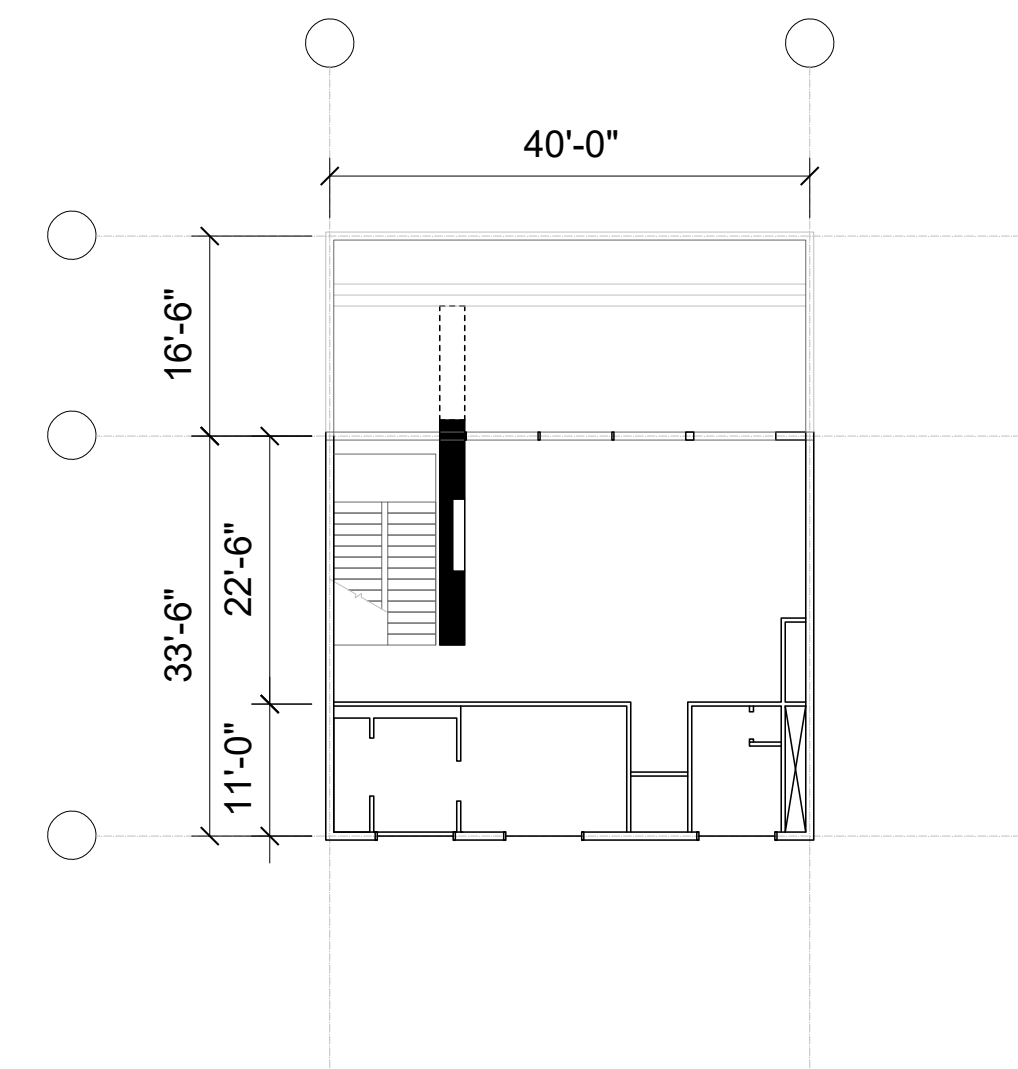
○ **CLUSTER UNIT TYPE C**
GROUND FLOOR PLAN



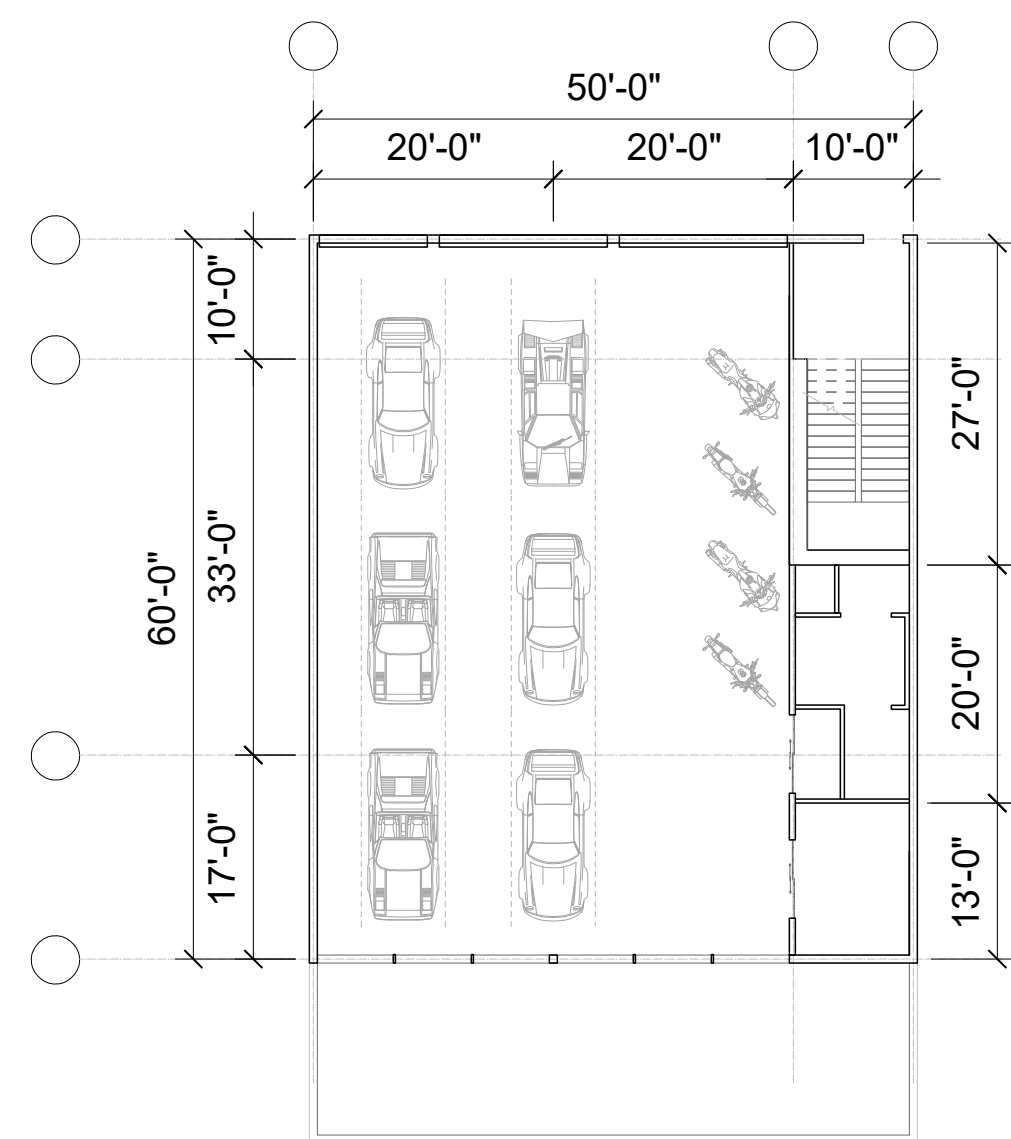
○ **CLUSTER UNIT TYPE C**
SECOND FLOOR PLAN



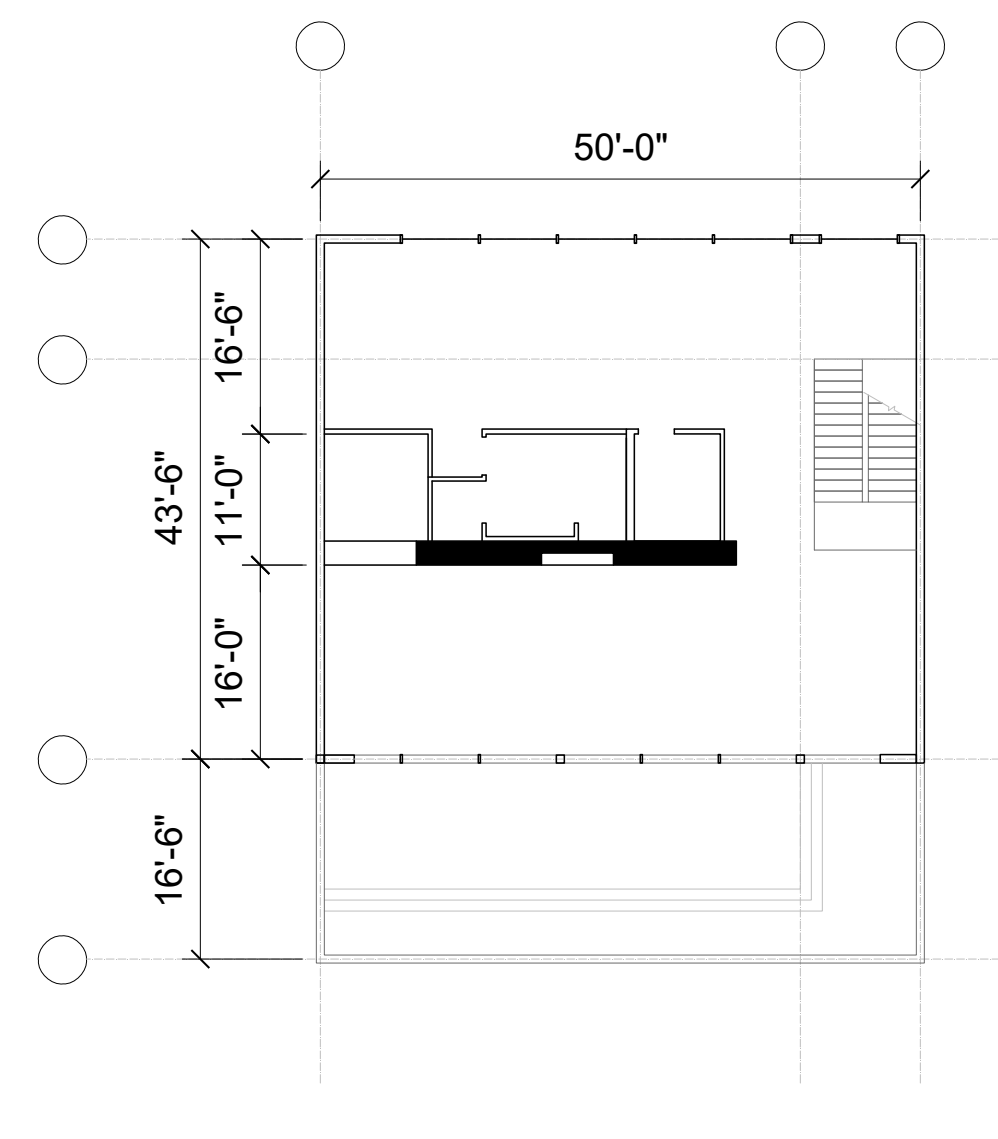
○ **CLUSTER UNIT TYPE B**
FIRST FLOOR PLAN



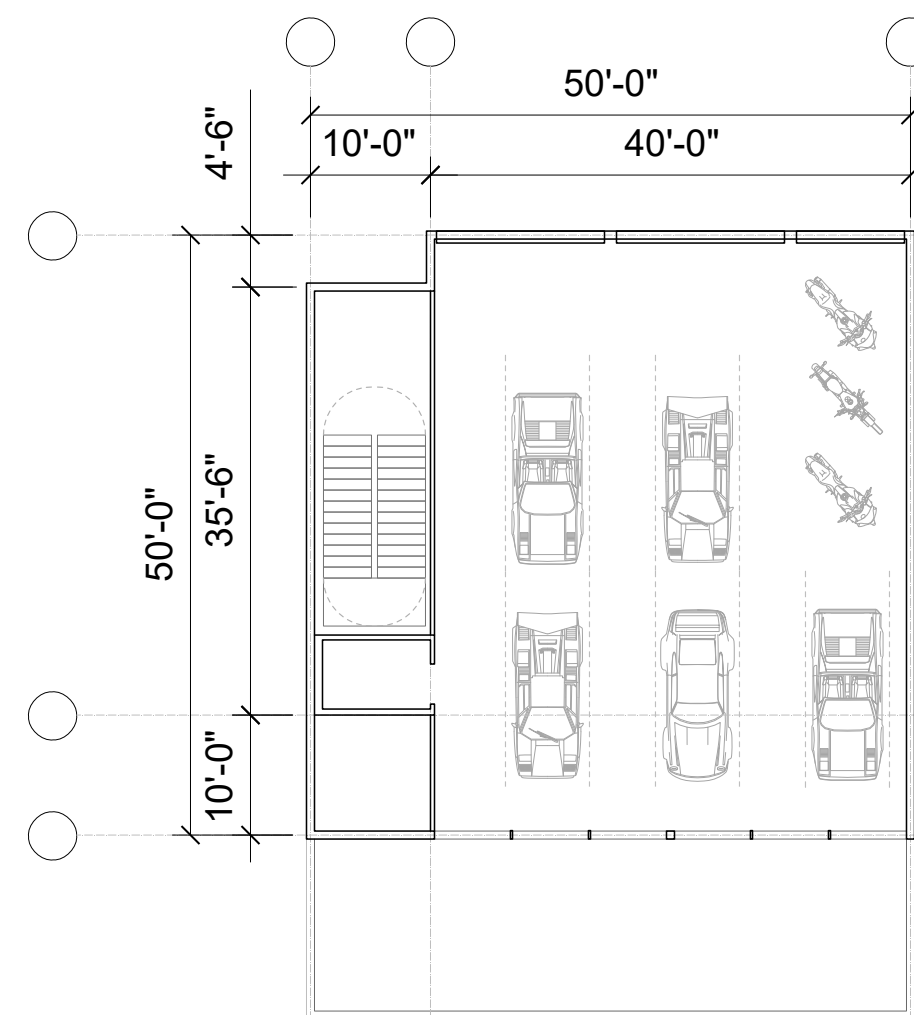
○ **CLUSTER UNIT TYPE B**
SECOND FLOOR PLAN



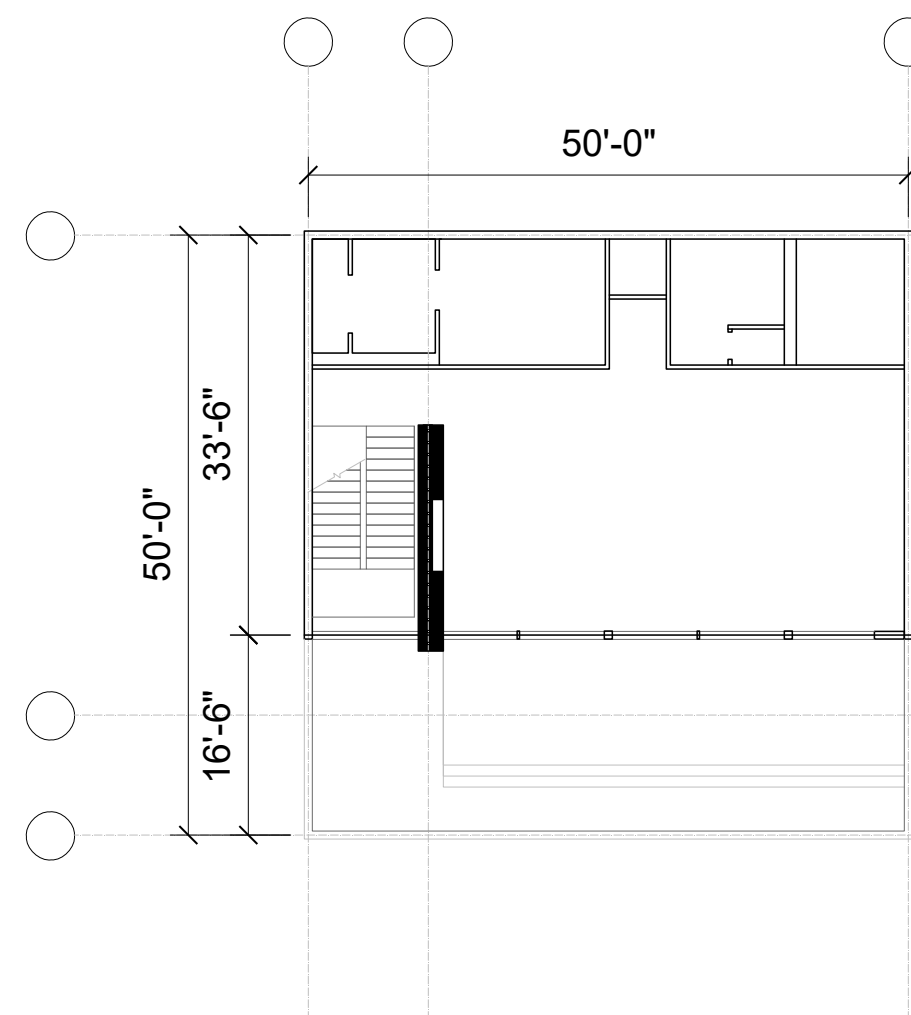
○ **CLUSTER UNIT TYPE A'**
GROUND FLOOR PLAN



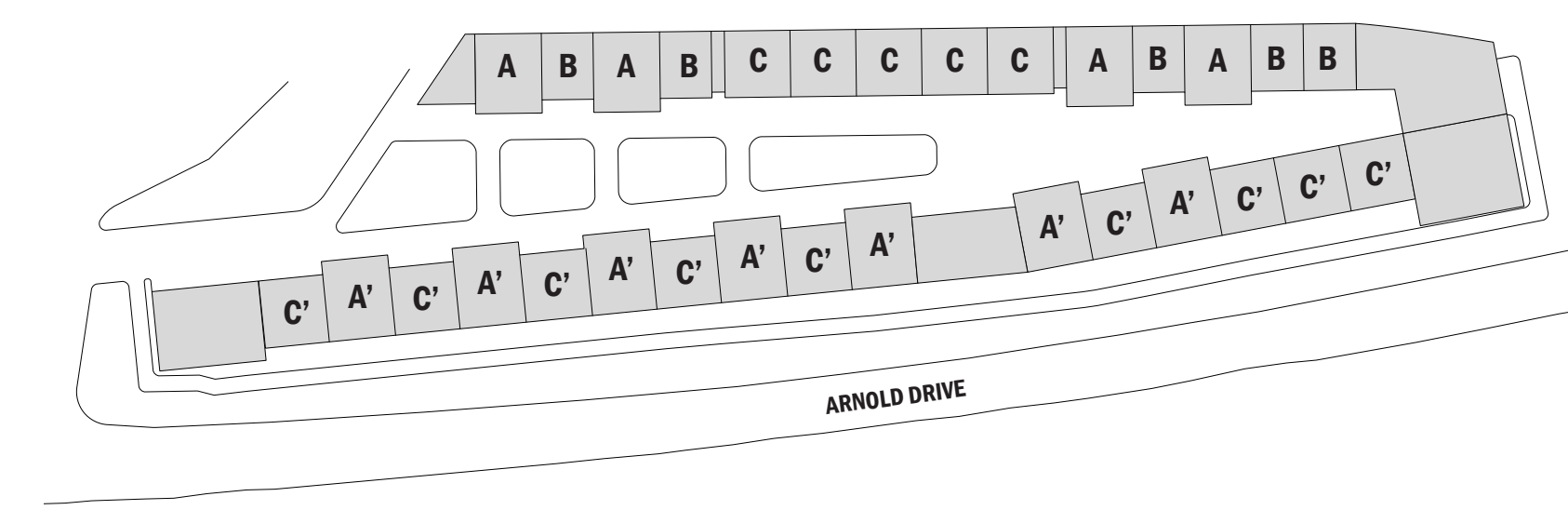
○ **CLUSTER UNIT TYPE A'**
SECOND FLOOR PLAN



○ **CLUSTER UNIT TYPE C'**
GROUND FLOOR PLAN



○ **CLUSTER UNIT TYPE C'**
SECOND FLOOR PLAN



OWNER:

SONOMA RACEWAY

PROJECT ARCHITECT:

PERKINS — EASTMAN

PERKINS EASTMAN
115 5th Ave., New York, NY 10003
(T) 212.353.7200

CLUSTER A, B & C: UNIT PLANS

SONOMA RACEWAY
29355 Arnold Dr., Sonoma, CA 95476

A-401A

NOTES:
1. PAPER PRINTED AT 24"x36"

SCALE:
1/16" = 1'-0"



OWNER:



PROJECT ARCHITECT:

**PERKINS —
EASTMAN**

PERKINS EASTMAN
115 5th Ave., New York, NY 10003
(T) 212.353.7200

BUILDING 1 & 3: VIGNETTE

SONOMA RACEWAY
29355 Arnold Dr., Sonoma, CA 95476

A-006

NOTES:

1. PAPER PRINTED AT 24"x36"



OWNER:



PROJECT ARCHITECT:

**PERKINS —
EASTMAN**

PERKINS EASTMAN
115 5th Ave., New York, NY 10003
(T) 212.353.7200

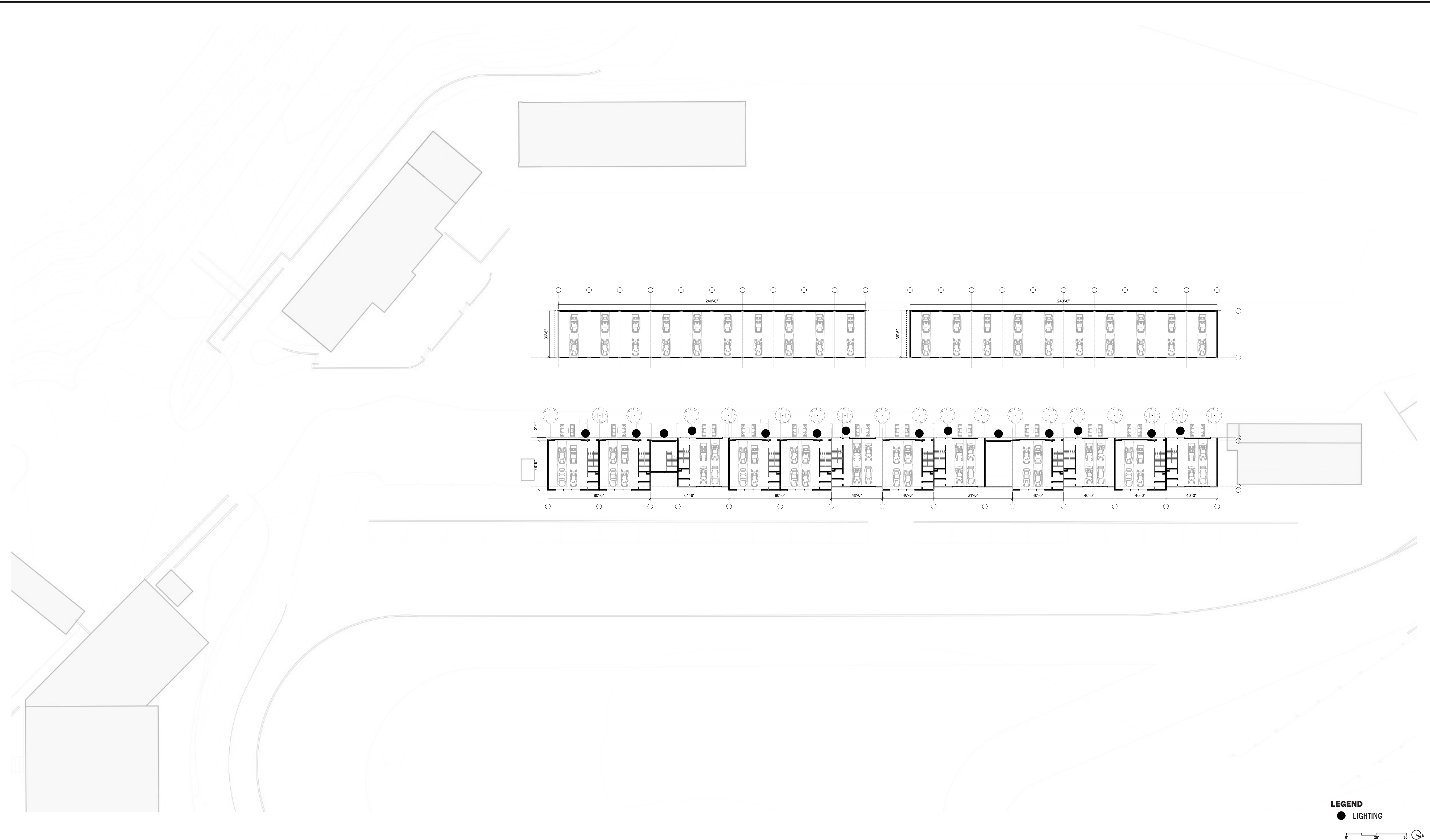
BUILDING 3: VIGNETTE

SONOMA RACEWAY
29355 Arnold Dr., Sonoma, CA 95476

A-007

NOTES:

1. PAPER PRINTED AT 24"x36"



OWNER:
 **SONOMA RACEWAY**

PROJECT ARCHITECT:
PERKINS — EASTMAN
 PERKINS EASTMAN
 115 5th Ave., New York, NY 10003
 (T) 212.353.7200

BUILDING 1, 2 & 3: GROUND FLOOR LIGHTING PLAN

SONOMA RACEWAY
 29355 Arnold Dr., Sonoma, CA 95476

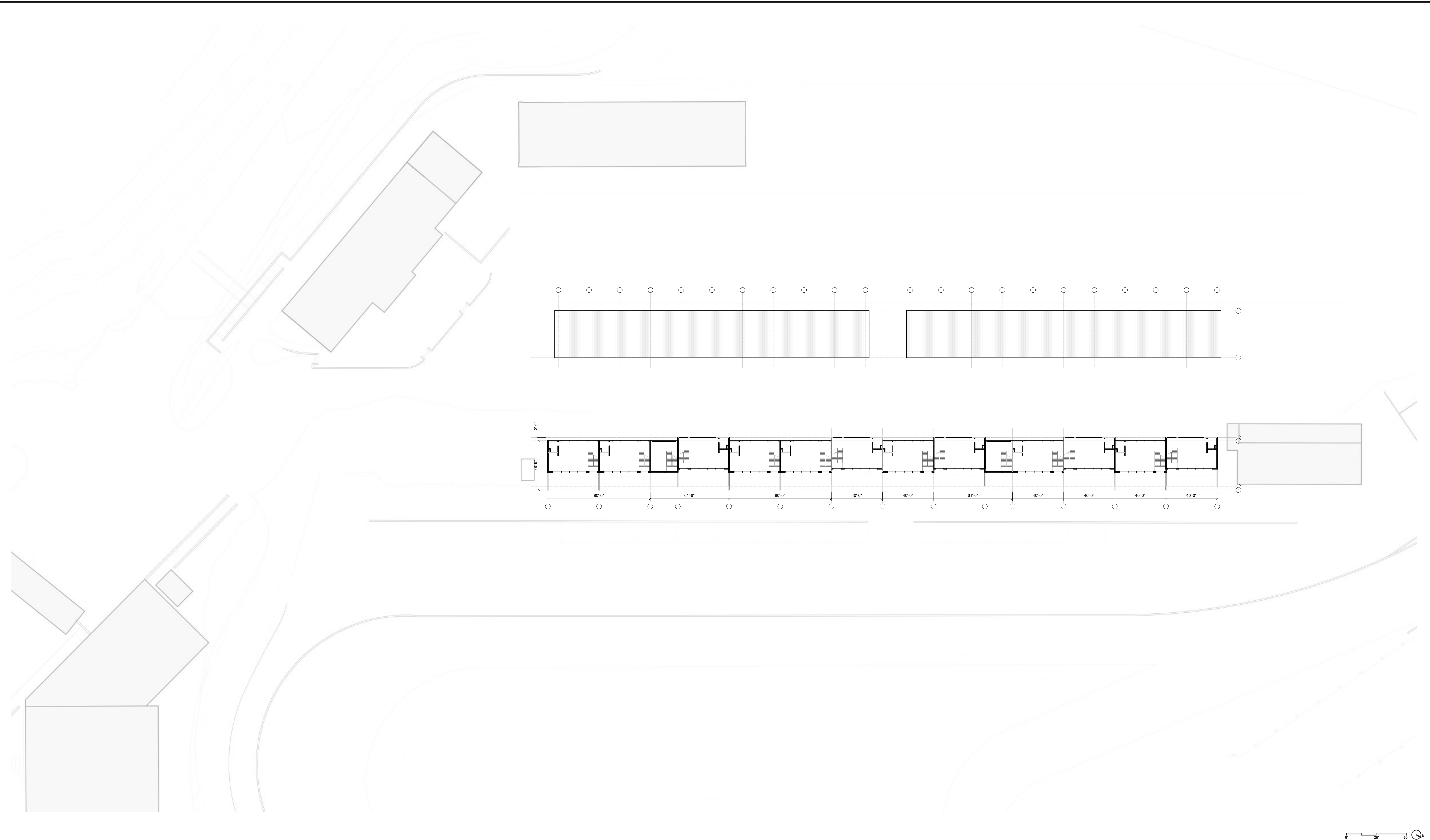
A-101B

NOTES:
 1. PAPER PRINTED AT 24"x36"

SCALE:
 1/32" = 1'-0"

LEGEND
 ● LIGHTING



OWNER:
 **SONOMA RACEWAY**

PROJECT ARCHITECT:
PERKINS — EASTMAN
 PERKINS EASTMAN
 115 5th Ave., New York, NY 10003
 (T) 212.353.7200

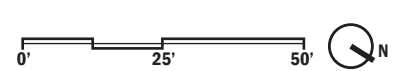
BUILDING 1, 2 & 3: SECOND FLOOR PLAN

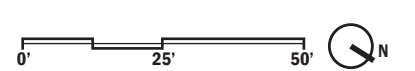
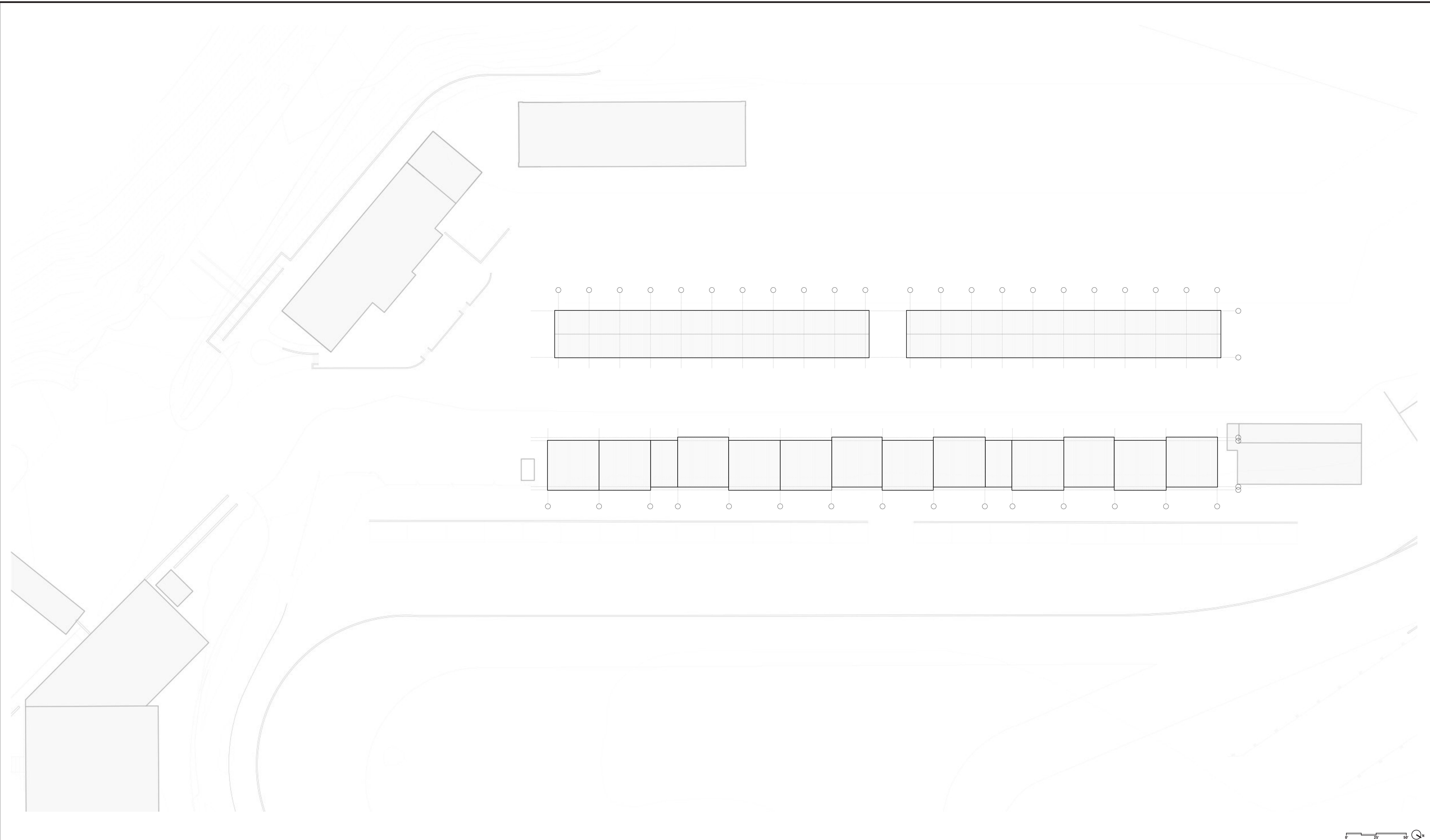
SONOMA RACEWAY
 29355 Arnold Dr., Sonoma, CA 95476

A-102B

NOTES:
 1. PAPER PRINTED AT 24"x36"

SCALE:
 1/32" = 1'-0"





OWNER:
 **SONOMA RACEWAY**

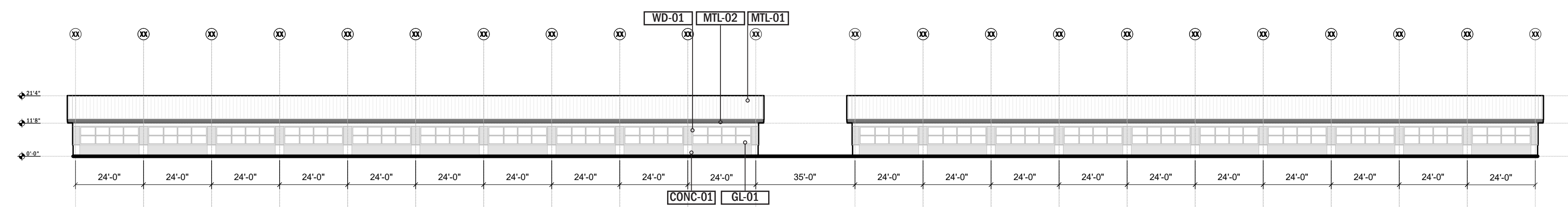
PROJECT ARCHITECT:
PERKINS — EASTMAN
 PERKINS EASTMAN
 115 5th Ave., New York, NY 10003
 (T) 212.353.7200

BUILDING 1, 2 & 3: ROOF PLAN
SONOMA RACEWAY
 29355 Arnold Dr., Sonoma, CA 95476

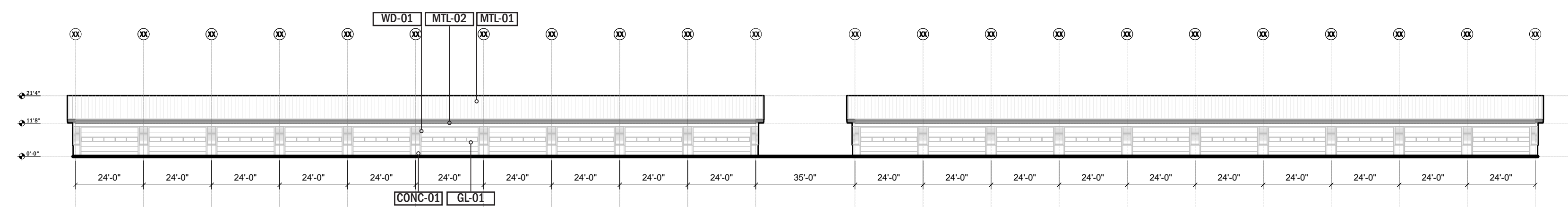
A-103B

NOTES:
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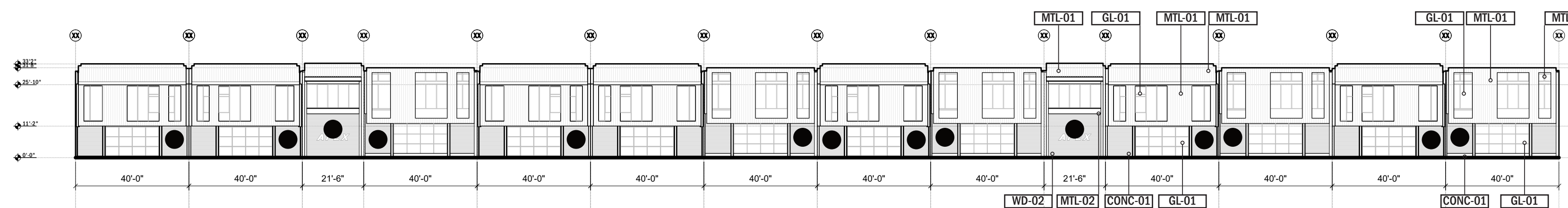
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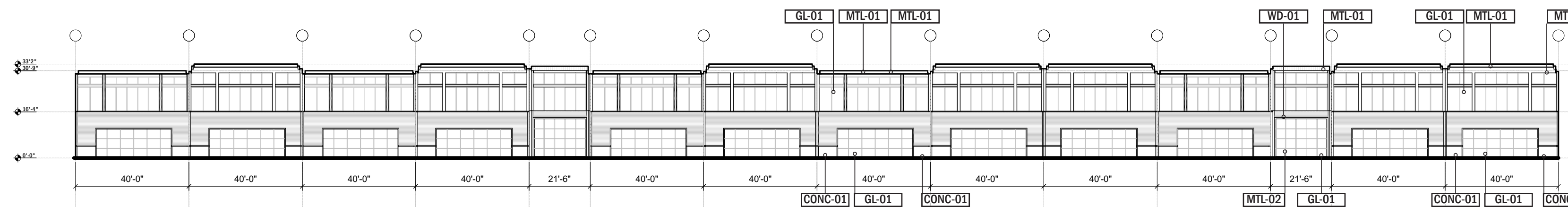
ELEVATION 1



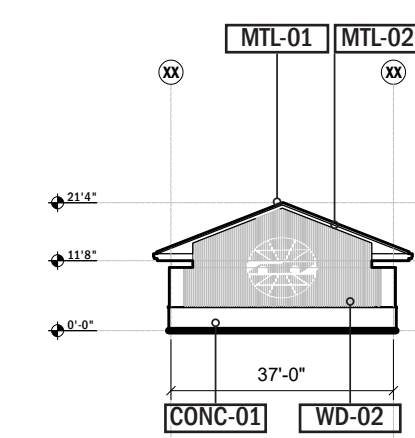
ELEVATION 3



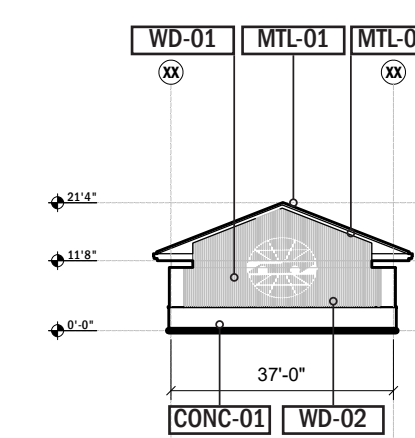
ELEVATION 5



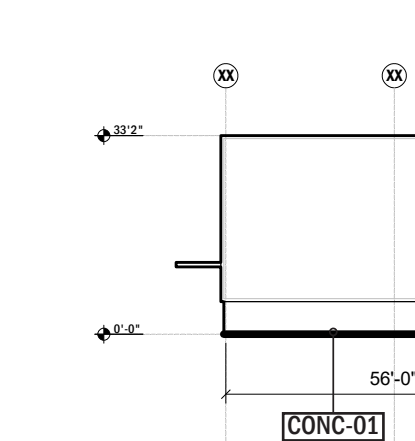
ELEVATION 7



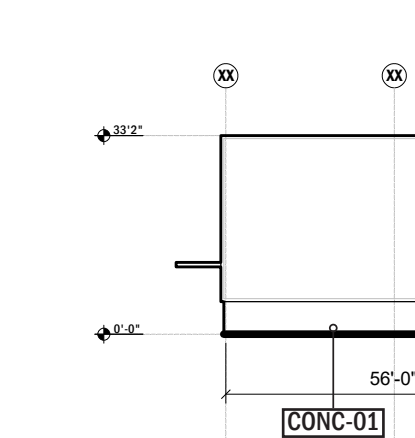
ELEVATION 2



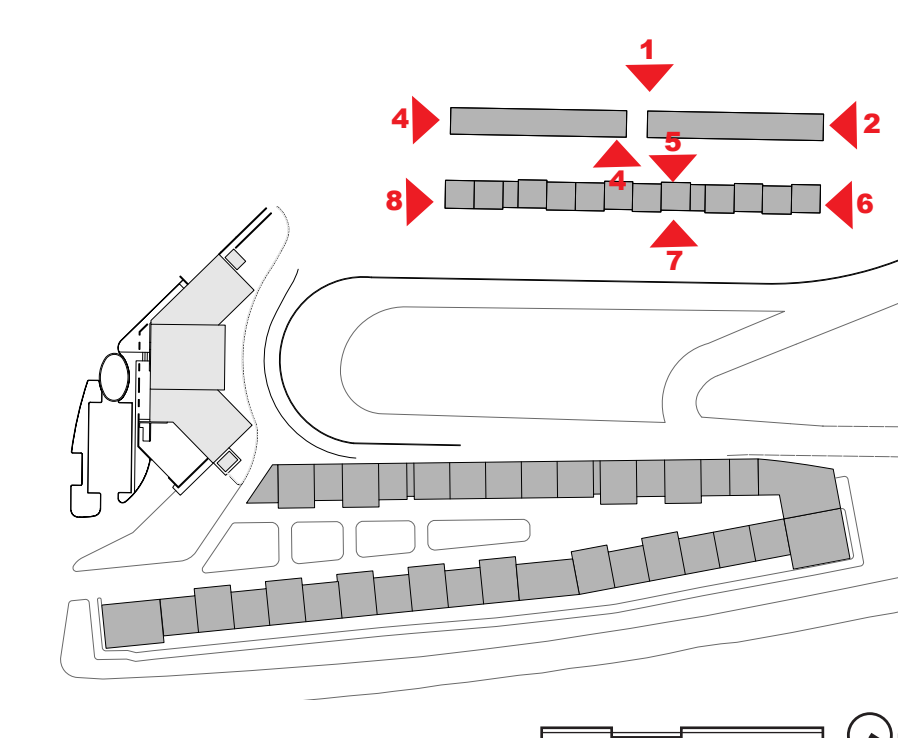
ELEVATION 4



ELEVATION 6



ELEVATION 8



OWNER:

PROJECT ARCHITECT:

PERKINS — EASTMAN

PERKINS EASTMAN
115 5th Ave., New York, NY 10003
(T) 212.353.7200

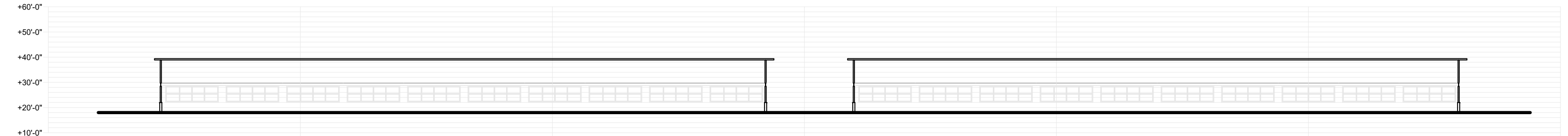
BUILDING 1, 2 & 3: ELEVATIONS

SONOMA RACEWAY
29355 Arnold Dr., Sonoma, CA 95476

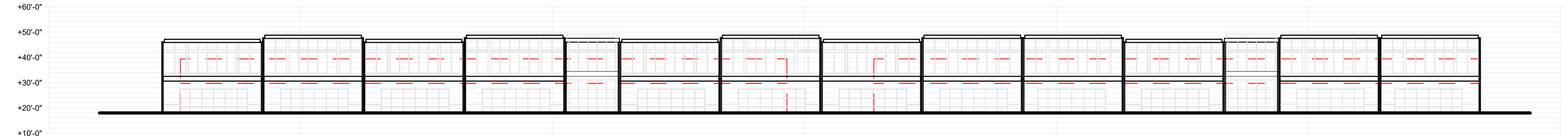
A-201B

NOTES:
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SCALE:
1/32" = 1'-0"



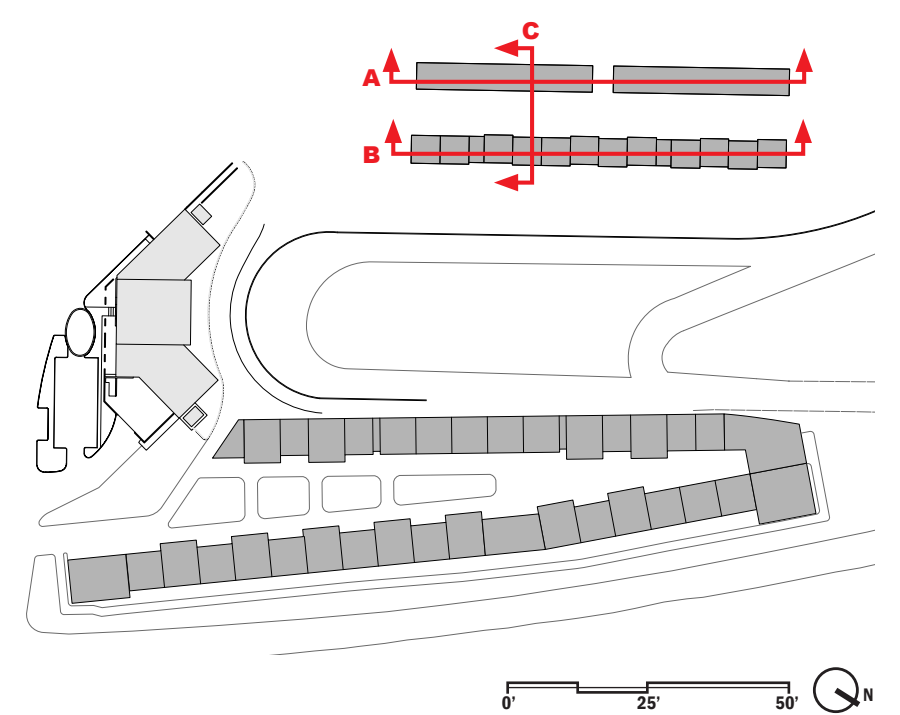
BUILDING SECTION A-A



BUILDING SECTION B-B



BUILDING SECTION C-C



OWNER:



PROJECT ARCHITECT:

PERKINS — EASTMAN

PERKINS EASTMAN
115 5th Ave., New York, NY 10003
(T) 212.353.7200

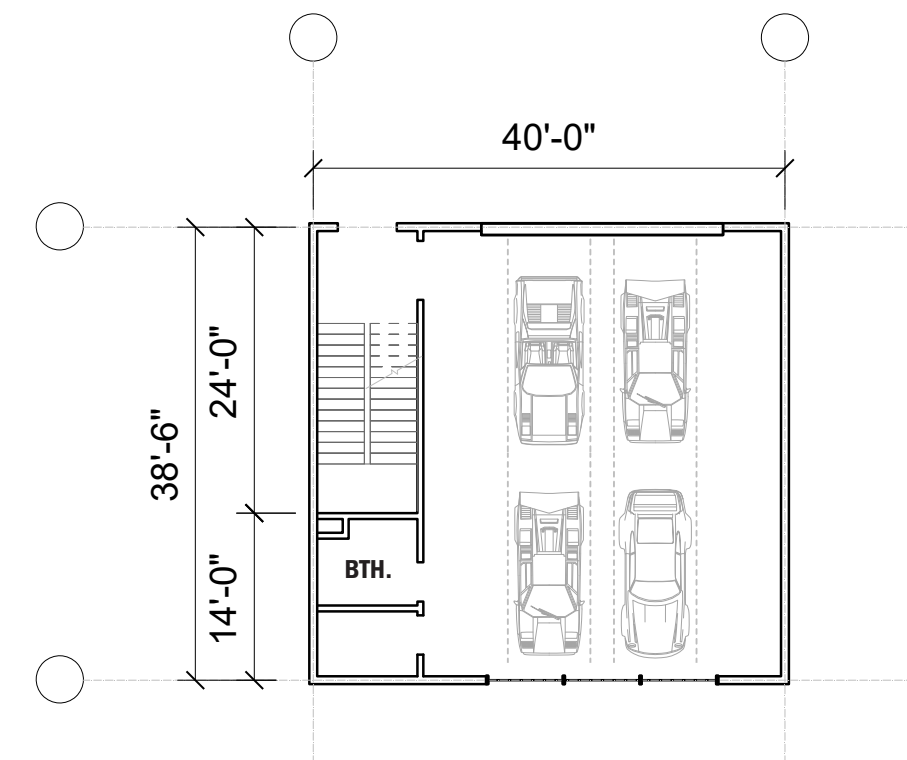
BUILDING 1, 2 & 3: SECTIONS

SONOMA RACEWAY
29355 Arnold Dr., Sonoma, CA 95476

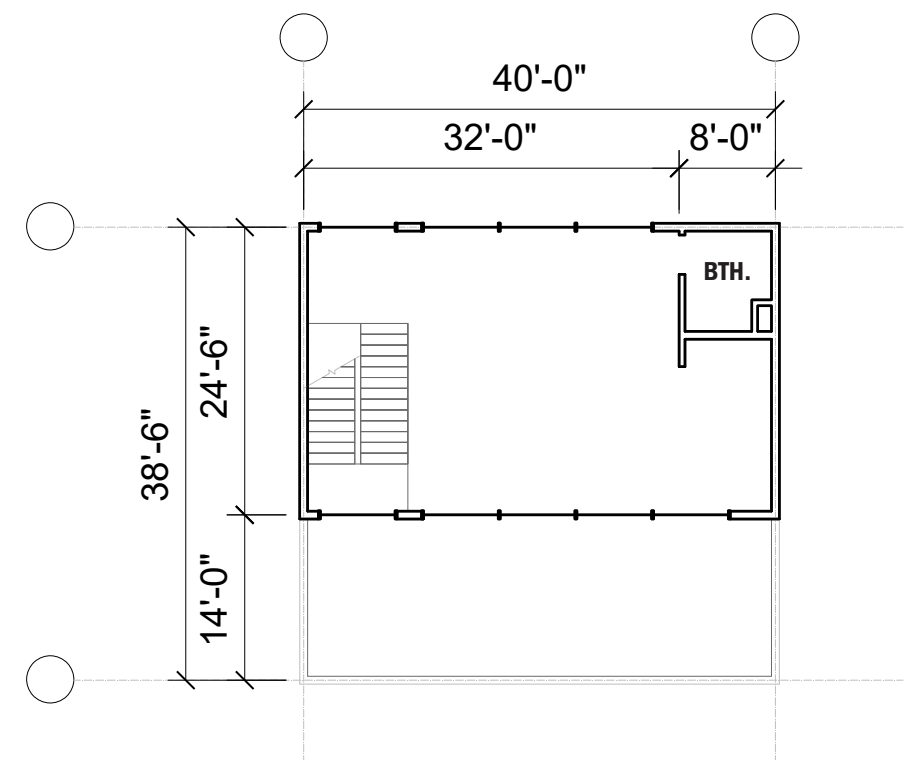
A-301B

NOTES:
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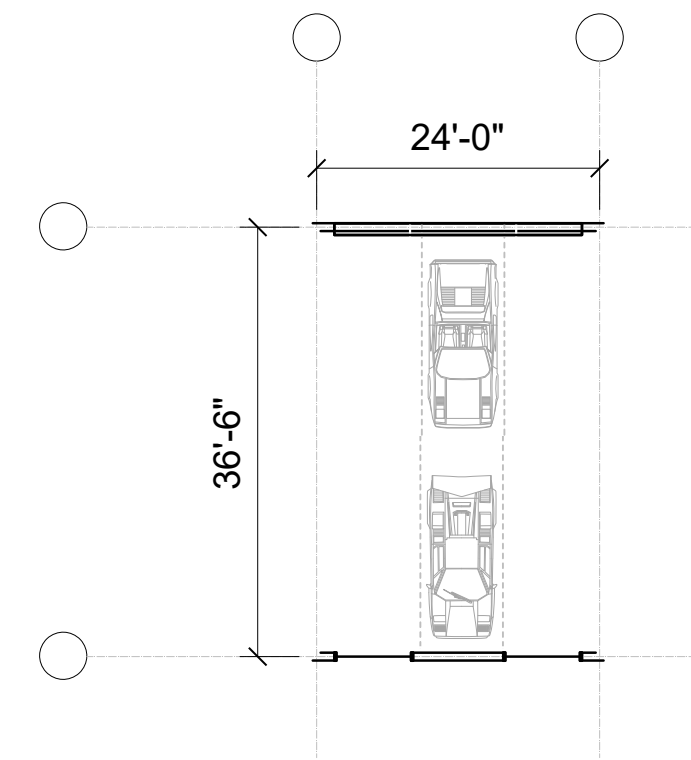
SCALE:
1/32" = 1'-0"



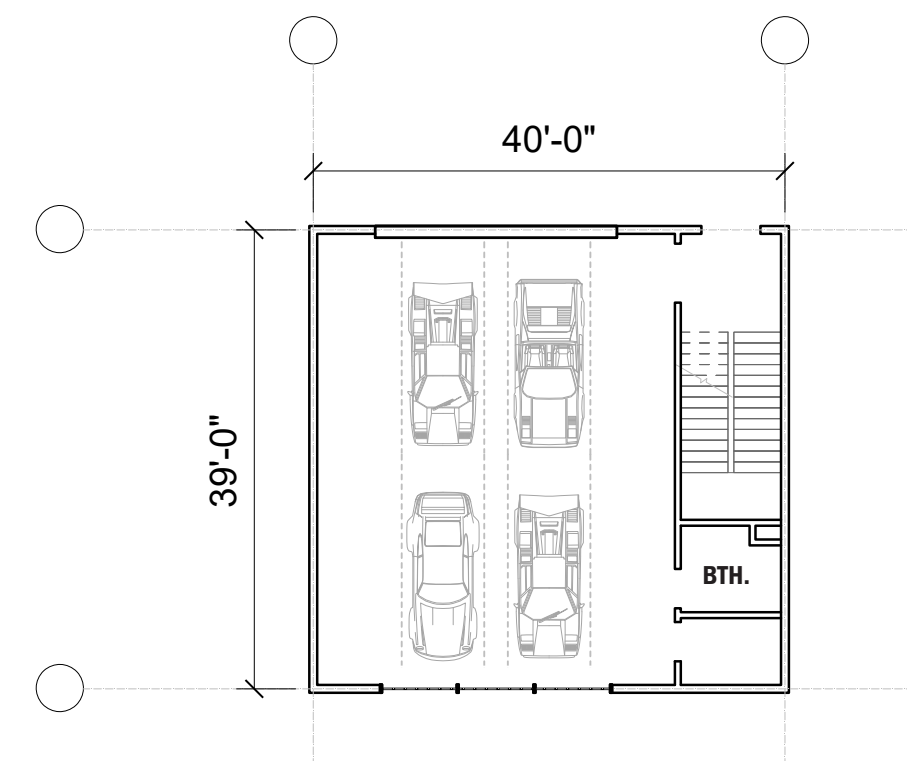
BUILDING 3 / TYPE A
GROUND FLOORPLAN



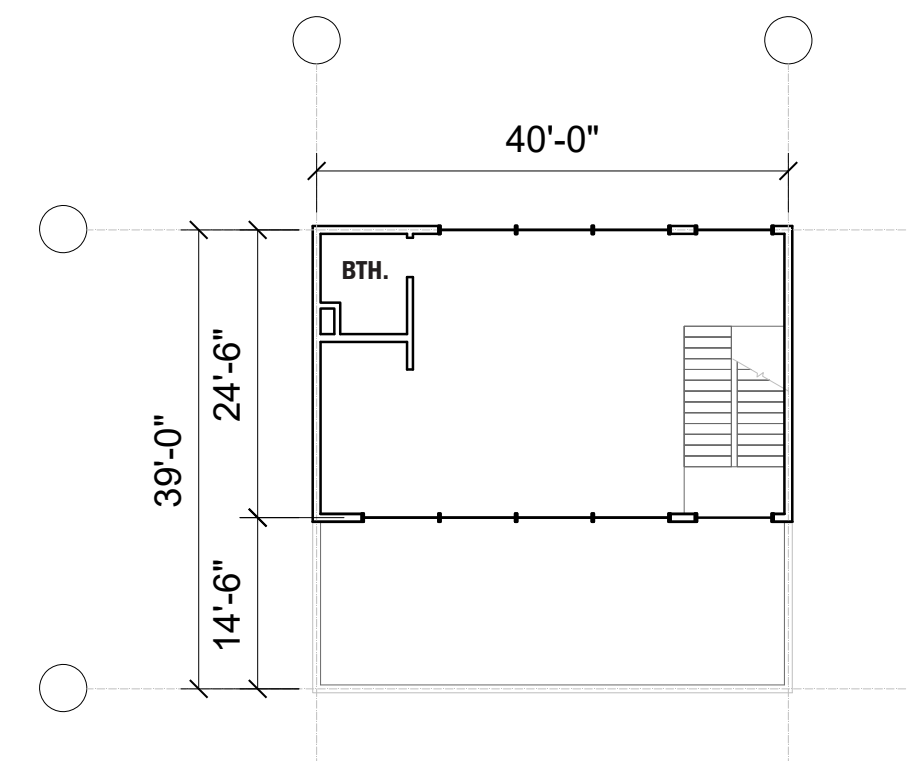
BUILDING 3 / TYPE A
SECOND FLOORPLAN



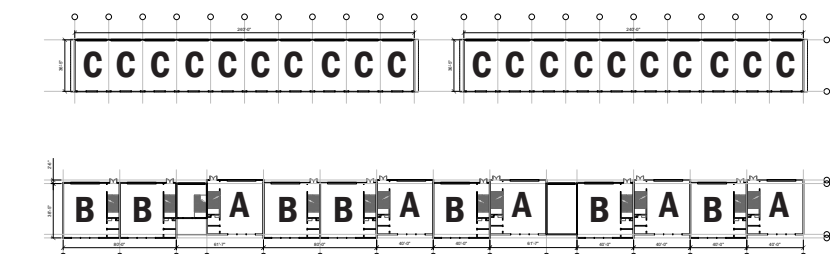
BUILDING UNIT TYPE C
GROUND FLOORPLAN



BUILDING UNIT TYPE B
GROUND FLOORPLAN



BUILDING UNIT TYPE B
SECOND FLOORPLAN



OWNER:



PROJECT ARCHITECT:

PERKINS — EASTMAN

PERKINS EASTMAN
115 5th Ave., New York, NY 10003
(T) 212.353.7200

BUILDING 1, 2 & 3: UNIT PLANS

SONOMA RACEWAY
29355 Arnold Dr., Sonoma, CA 95476

A-401B

NOTES:

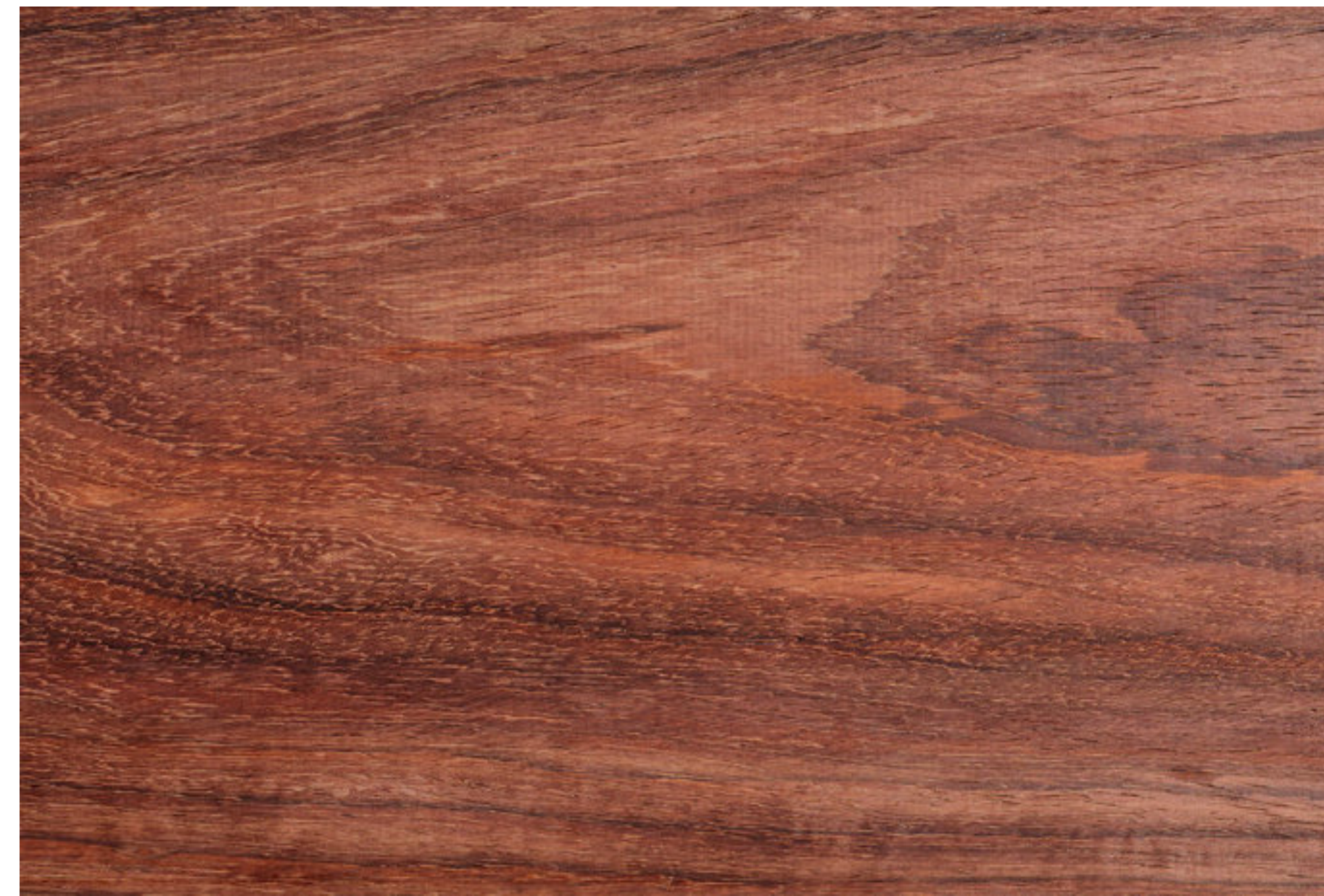
1. PAPER PRINTED AT 24"x36"

SCALE:

1/16" = 1'-0"



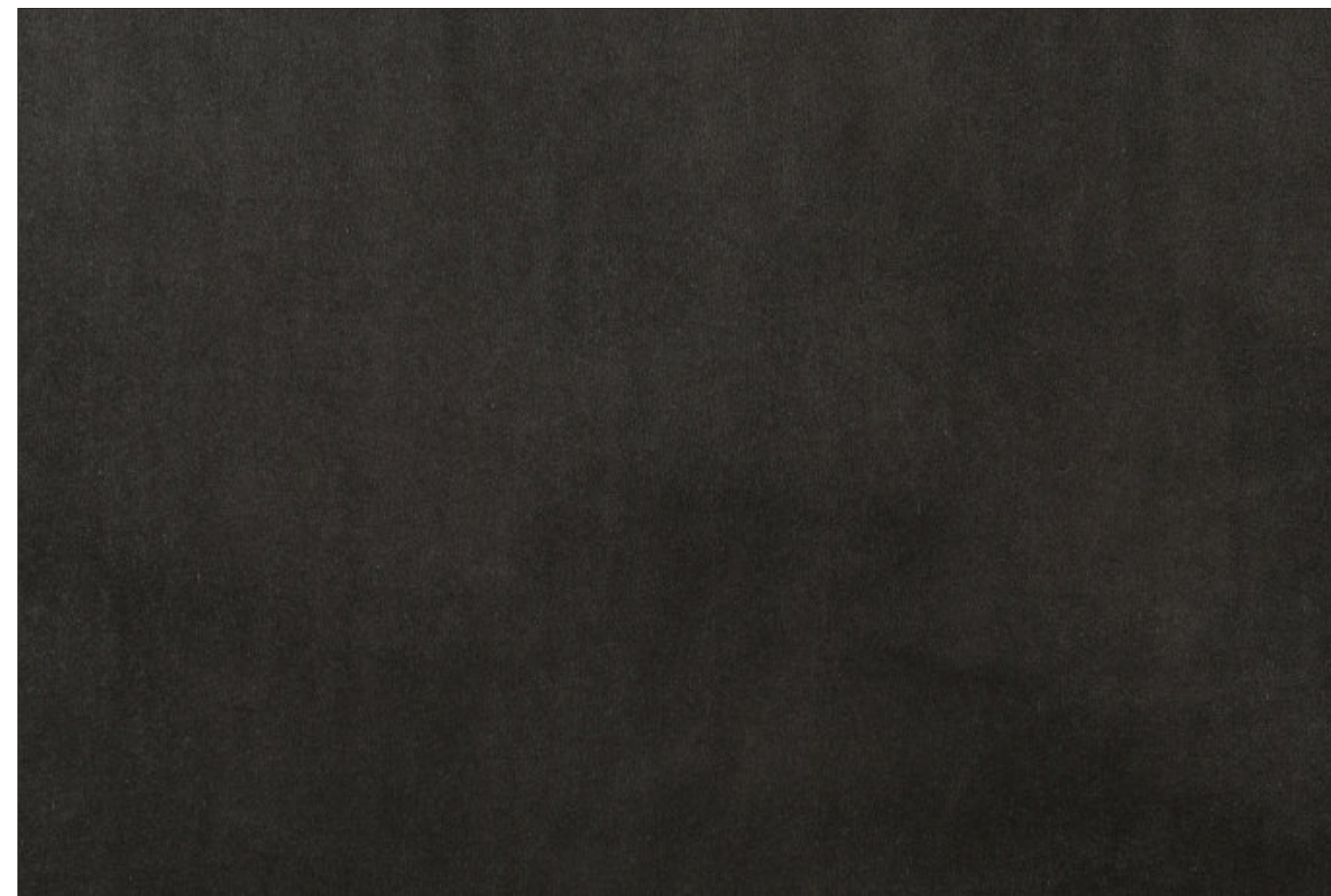
MTL-01 STANDING SEAM
UC110460
ROOFING/SIDING



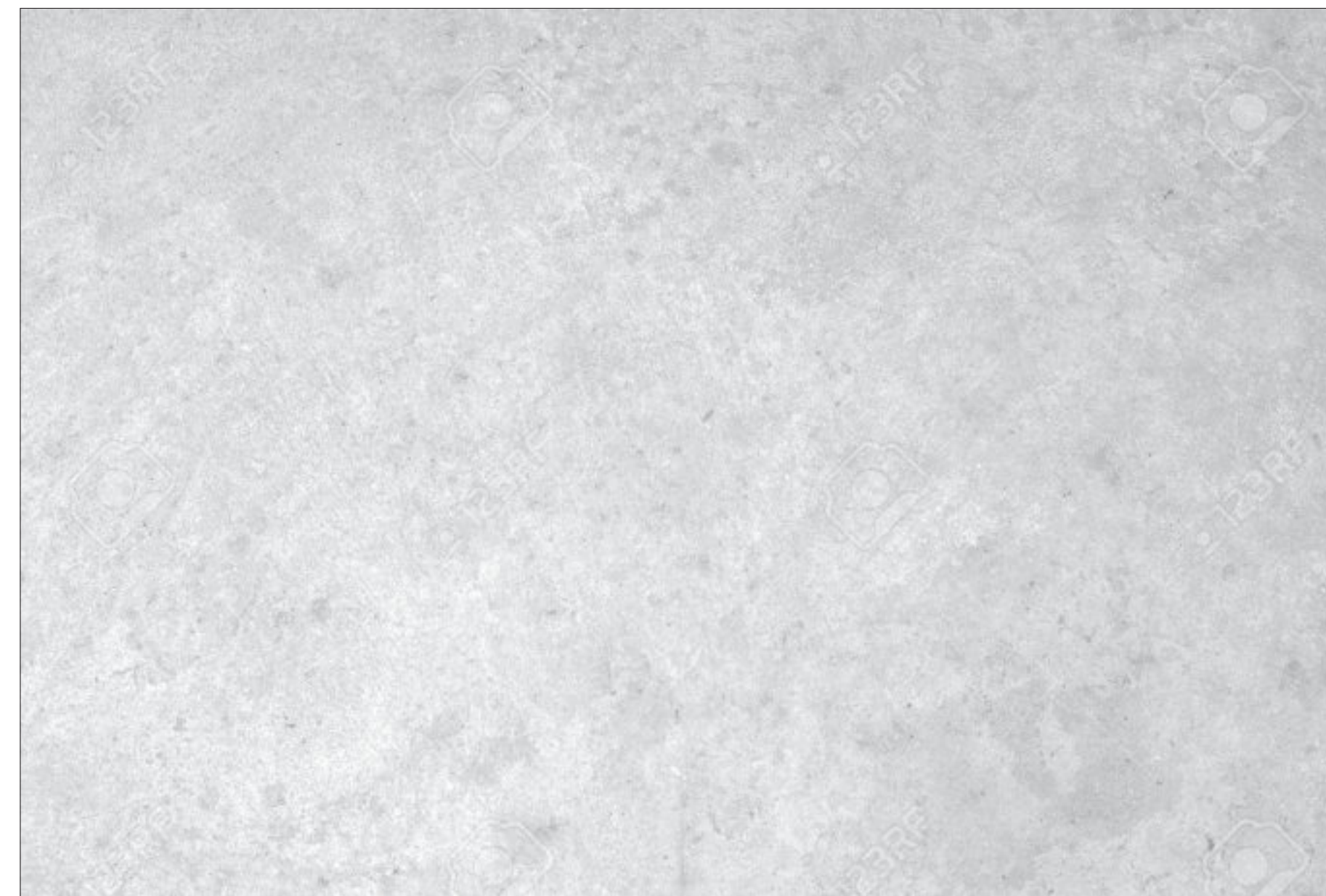
WD-01 REDWOOD STAINED SIDING



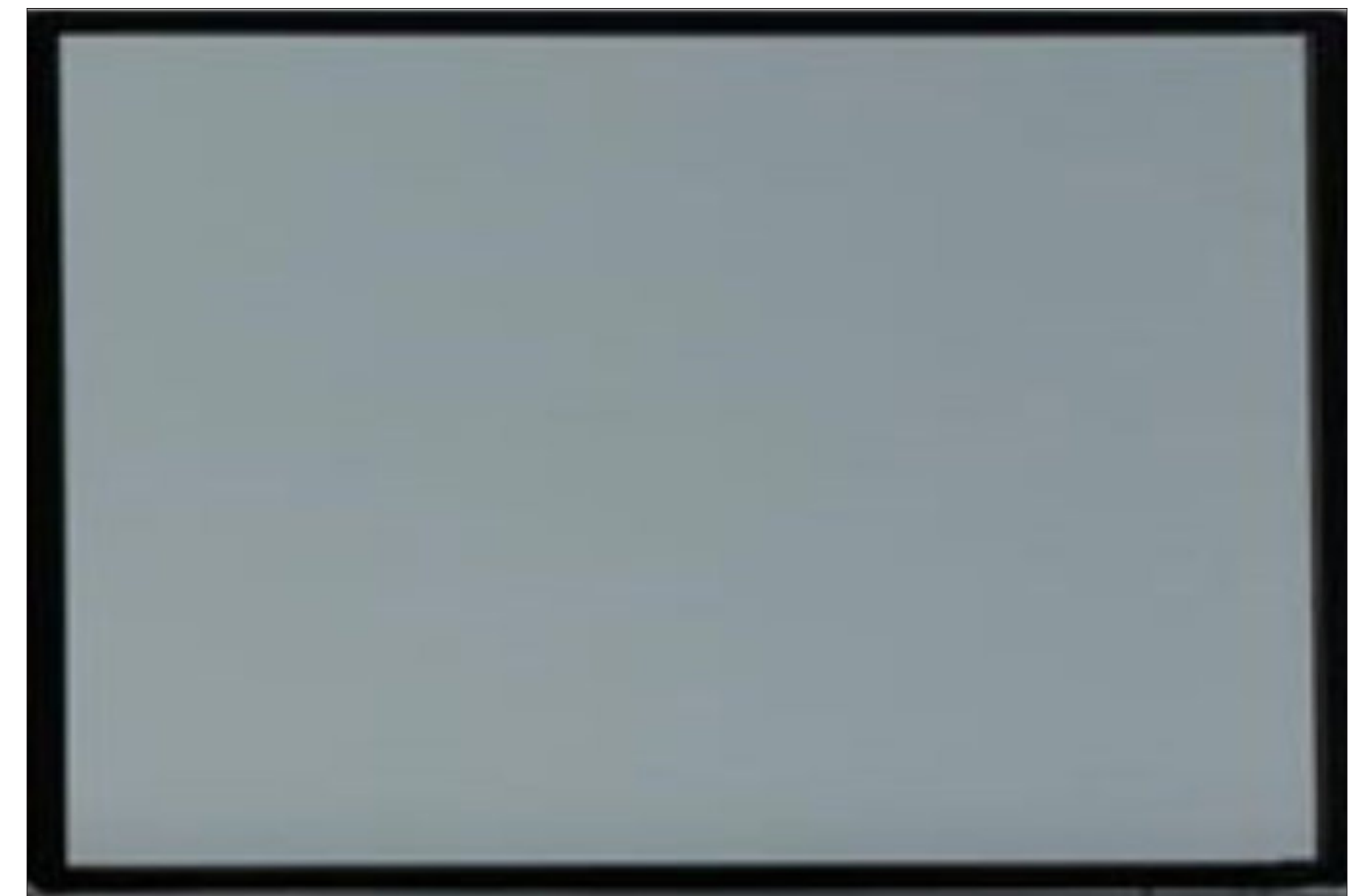
WD-02 REDWOOD - STAINED IPE WOOD SIDING



MTL-02 METAL
UC110460
WINDOW & DOOR FRAMES, SIGNAGE



CONC-01 ARCHITECTURAL CONCRETE
WATERTABLE



GL-01 VNE35 - 63 INSULATING HS/HS
WINDOWS/DOORS/RAILINGS

OWNER:



PROJECT ARCHITECT:

**PERKINS —
EASTMAN**

PERKINS EASTMAN
115 5th Ave., New York, NY 10003
(T) 212.353.7200

MATERIAL PALETTE

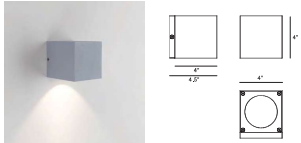
SONOMA RACEWAY
29355 Arnold Dr., Sonoma, CA 95476

A-008

NOTES:

1. PAPER PRINTED AT 24"x36"

REBELLE
LIGHTING



Tessera 3100LED Wall Mount

INTERIOR/EXTERIOR

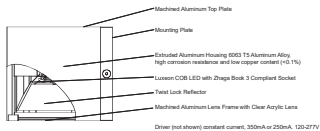
MODEL	LED MODULE	COLOR TEMPERATURE	VOLT	DISTRIBUTION	OPTIONS	COLOR
3100	12L	4000K	120° SP	12" wall	60	90 CRI
		3000K	200° FL	30" round	50	WT white texture
		2700K	240° WFL	48" wide flood	50	BT black texture
			277° WVFL	84" very wide flood	50	SM silver metallic
				BC1	AN aluminum natural	
				BC2	BR brushed	
				BC3	GM gunmetal	
				BC4	WS white satin	
				BC5	SM black matte	
				BC6	RAL specify color	

*Standard configuration unless otherwise specified. **Normal LED Power:** Delivered lumens (4000K, 80CRI) not applicable to PSE. This applies with normal beamwidth. **Photo Beam LED:** Available in a constant beam or 2° beam. **Delivered CRI:** Minimum value. **Color rendering:** 94-97. **Sample Catalog Number:** 3100-12L-40-120-SP-60. Using this coding number model order 1 model 3100 wall mount luminaire using spot optics and a 12 wall LED module with a color temperature of 4000K suited to 120 volts, painted white texture polyester powder coat.

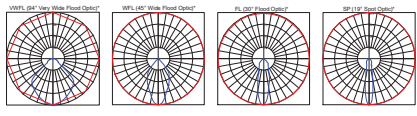
CONSTRUCTION: The 3100LED series is designed for all mounting. A heavy gauge mounting plate is secured to the wall and enclosed independently of the recessed 4" square lens by either the recessed plate or a separate plate. The lens features a clear acrylic lens. **Materials:** The 3100LED luminaire uses Chip-on-board technology with Zhaga Book 3 compliant socket, field changeable high efficiency heat sink reflectors and clear acrylic lens. **Electrical Components:** Constant current driver 300mA or 200mA, LED lighting temperature, LED driver with Zhaga compliant socket, 80 CRI (optional), Photo Beam with a proprietary PCB with constant current driver 200mA, optional dimming driver compatible with IEC60929 200W-10V ballast control.

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REBELLE
LIGHTING



Tessera 3100LED

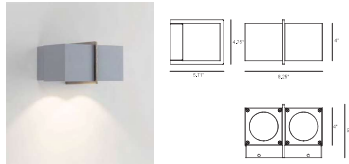


Product	CCT	CRI	Delivered Lumens	Nominal LED Power	System Power	Lumens per Watt*
3100-12L	4000	80	1219*	12 watts	13.93 watts	89.4
3100-3L	4000	80	3024*	9 watts	9.64 watts	98.5

*Based on system power. [†]Not applicable with PSE optics.

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REBELLE
LIGHTING



Tessera 3204LED Wall Mount Lighting

INTERIOR/EXTERIOR

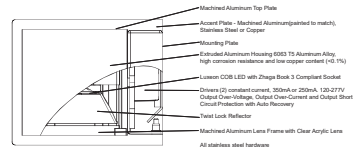
MODEL	LED MODULE	COLOR TEMPERATURE	VOLT	DISTRIBUTION	ACCENT PLATE	OPTIONS	COLOR
3204	2 x 12L	4000K	120° SP	12" wall	1" painted plate	DM 2x12 spot	WT white texture
		3000K	200° FL	30" round	2 copper plate	90 90 CRI	BT black texture
		2700K	240° WFL	48" wide flood	2 copper plate	90 90 CRI	SM silver metallic
			277° WVFL	84" very wide flood	2 polished steel		AN aluminum natural
							BR brushed
							GM gunmetal
							WS white satin
							SM black matte
							RAL specify color

*Standard configuration unless otherwise specified. **Normal LED Power:** Delivered lumens (4000K, 80CRI) **DM:** See Tessera 3100 specification sheet for details. **Sample Catalog Number:** 3204-2 x 12L-40-120-SP-1-WT. Using this coding number model order 1 model 3204 wall mount luminaire using spot optics and 2-12 wall LED modules with a color temperature of 4000K suited to 120 volts, painted white texture polyester powder coat with the accent plate painted to match.

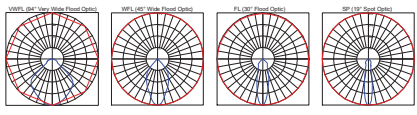
CONSTRUCTION: The 3204LED series is designed for all mounting. A heavy gauge mounting plate is secured to the wall and enclosed independently of the recessed 4" square lens by either the recessed plate or a separate plate. The lens features a clear acrylic lens. **Materials:** The 3204LED luminaire uses Chip-on-board technology with Zhaga Book 3 compliant socket, field changeable high efficiency heat sink reflectors and clear acrylic lens. **Electrical Components:** Constant current driver 300mA or 200mA, LED lighting temperature, LED driver with Zhaga compliant socket, 80 CRI (optional), Photo Beam with a proprietary PCB with constant current driver 200mA, optional dimming driver compatible with IEC60929 200W-10V ballast control.

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REBELLE
LIGHTING



Tessera 3204LED



Product	CCT	CRI	Delivered Lumens	Nominal LED Power	System Power	Lumens per Watt*
3204-12L	4000	80	2438	2 x 12 watts	27.26 watts	89.4
3204-3L	4000	80	1880	2 x 9 watts	19.26 watts	98.5

*Based on system power.

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PROJECT ARCHITECT:
PERKINS EASTMAN
PERKINS EASTMAN
115 5th Ave., New York, NY 10003
(1) 212.353.7200

LIGHTING SPECS
SONOMA RACEWAY
29355 Arnold Dr., Sonoma, CA 95476

A-009

NOTES:
1. PAPER PRINTED AT 24"x36"

CYLINDER

Outdoor ADA Wall Sconce



GENERAL SPECIFICATION
 LED: High efficiency, high-power LED, Lumen maintenance +10% over 50,000 hour life, light source is fully replaceable.
 Driver: Standard 7A, 2-wire dimming. Max remote driver installation distance: 254 ft from fixture body/Universal voltage 120-277V.
 Body: Cast aluminum.
 Mounting: Driver mounted in 4" square by 2 1/8" deep junction box. (Steel City #52171 or equivalent supplied by others)
 Finish: High-gloss, durable semi-cured UVG premium powder coat.
 Surge Protection: External surge protector provided as standard.



SAMPLE CATALOG NUMBER: GL-6540- E- R2		R2		TBL- A	
MODEL NO.	LAMPING	REFLECTOR UP	REFLECTOR DOWN	FINISH	OPTIONS
GL-6540 W 5" H 8 1/4" D 4 1/4"	GLEE030	Up	Down	Textured TLV- Light Verdigris	A- No Options E- Emergency Ballast P- Photo Cell PH- Photo Cell R- Quartz Ray SL- Silver TS- Bronze TM- Tarn-Resistant TZ- Bronze Premium SA- Satin Aluminum
	BLEED35	R2 20° Fresnel Lens	R2 20° Fresnel Lens	TW- White	
	BLEED40	R3 30° FMI, Clear Lens	R3 30° FMI, Clear Lens	TB- Black	
GL-6541 W 5" H 7 5/8" D 4 1/4"	GLEE030	Up	Down	TB- Black	A- No Options E- Emergency Ballast P- Photo Cell PH- Photo Cell R- Quartz Ray SL- Silver TS- Bronze TM- Tarn-Resistant TZ- Bronze Premium SA- Satin Aluminum
	BLEED35	R5 50° FMI, Clear Lens	R5 50° FMI, Clear Lens	TS - Silver	
	BLEED40	CC Closed Cap	CC Closed Cap	TB - Bronze	
GL-6542 W 5" H 7 5/8" D 4 1/4"	GLEE030	Up	Down	TS - Silver	A- No Options E- Emergency Ballast P- Photo Cell PH- Photo Cell R- Quartz Ray SL- Silver TS- Bronze TM- Tarn-Resistant TZ- Bronze Premium SA- Satin Aluminum
	BLEED35	R2 20° Fresnel Lens	R2 20° Fresnel Lens	TM - Tarn-Resistant	
	BLEED40	R3 30° FMI, Clear Lens	R3 30° FMI, Clear Lens	TZ - Bronze	
GL-6543 W 5" H 7 5/8" D 4 1/4"	GLEE030	Up	Down	TZ - Bronze	A- No Options E- Emergency Ballast P- Photo Cell PH- Photo Cell R- Quartz Ray SL- Silver TS- Bronze TM- Tarn-Resistant TZ- Bronze Premium SA- Satin Aluminum
	BLEED35	R5 50° FMI, Clear Lens	R5 50° FMI, Clear Lens	TM - Tarn-Resistant	
	BLEED40	CC Closed Cap	CC Closed Cap	TZ - Bronze	

Light Source Definition

Code	Wattage	Beam Angle	Color	Temp	Life	Notes
LED30	3000K	30°	400	14W	50000	1442°
LED35	3500K	30°	400	14W	50000	1430°
LED35	3500K	30°	400	14W	50000	1284°
LED40	4000K	30°	400	14W	50000	1462°
LED40	4000K	30°	400	14W	50000	1030°
LED40	4000K	30°	400	14W	50000	1284°

Fluorescence is ETL listed for wet locations. Complete UVG data available at glighting.com

SK 100 LED Series



Features and Characteristics

Alumite designs reliable products produced with the best available materials, and we stand behind them with superior customer service. Please contact us for more information.

Housing: Formed from 3003-H14 extruded aluminum to ensure excellent durability in harsh environments, extra frame is internally welded in place. Housing is secured to the mounting plate with 4 stainless steel fasteners.

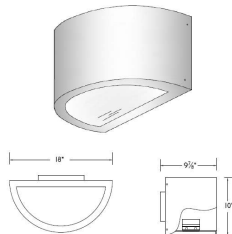
Lens Frame: Clear tempered glass is secured in the housing with three (3) retaining clips. Splice lens is supplied for wide throw distribution. Optional frosted glass "FG", Up Mount "UM" is an option.

Mounting Plate: Heavy gauge .125 wall aluminum die bolts to the wall. Module and driver assembly are attached to the mounting plate.

Module/Driver: Mini-mer LED Modules have high quality universal LEDs with an ETL rating and waterproof connectors. They are available in type 3 and type 4 distributions with 35W/450lm or 55W/610lm. Modules are available in 3000, 4000 and 5000K and have a minimum CRI of 80. Drivers are > 90 efficiency with universal voltage. Enclosed aluminum heat sinking system cools optimal thermal management.

Finish: Polyester powder coating on all metal parts. Color to be specified.

Listing: Luminaires is ETL listed for wet locations.



Series	Wattage/Lamp	Volts
SK 1	35W/LED = 35/LED	LV
SK 1	55W/LED = 55/LED	LV

Options	Finish
3000K = 30K	BZ = Bronze
4000K = 40K	BF = Black
5000K = 50K	WH = White
R3 = Type 3 Distribution	SL = Silver
R4 = Type 4 Distribution	CC = Custom Color
FG = Frosted Glass	
UM = Up Mount	
PH = Photo Cell	

Example
 35Watt LED, 120V @ 80, 3500K, Type 4, Bronze
 SK1-35LEDUM50KPHBZ

YRD 1200 Series



Design Features

Housing: Four heavy gauge extruded aluminum sections interlock to form the cylinder. Ballast support brackets with 1/4" threaded rods are internally welded to the housing.

Dome Cap: Heavy gauge .125 wall hydroformed hemispherical cap is secured with stainless steel fastener.

Lens Assembly: Clear tempered glass lens is secured in recessed cast aluminum frame with three clips. Gasket is installed between the glass and the frame and between frame and housing. Frame is secured to the housing with three 1/8" stainless steel fasteners.

Optical System: Spun aluminum reflector with specular low reflectance finish produces a smooth symmetrical distribution.

Mounting Bracket: Extruded aluminum arm is internally welded to the cast base plate. Arm is bolted to housing with two 3/8" bolts. Steel and brass bracket mounts to wall surface and is attached to the cast plate with two stainless steel fasteners.

Ballast/Lamp Assembly: HB ballast are high power factor and suitable for 40° F operation. CFL ballast are electronic with universal voltage and operate one or two 26, 32 or 45 watt lamps. HB sockets are porcelain, medium base and designed for 150 watt and mogul base for 150 watt units. CFL are optional with emergency ballast "EMB".

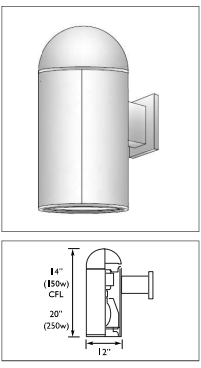
Finish: Polyester powder coating on all metal parts. Color to be specified.

Listing: Luminaires is ETL listed for wet locations.

Series	Wattage/Lamp	Volts	Options	Finish
YRD	26w/2w/CFL = 1242P	120	1F = Single Fuse	BZ = Bronze
	(2)26w/2w/CFL = 21242P	120	2F = Double Fuse	BK = Black
	150w/HPS = 1215S	140	PH = Photo Cell	WH = White
	150w/HPS = 1215S	177	QR = Quartz Ray	SL = Silver
	250w/HPS = 1225S	LV	PG = Prismatic Glass	CC = Custom Color
	150w/HPS = 1227H	LV	OB = Open Bottom	
	150w/HPS = 1215H		EMB = Emerg. Ballast	
	250w/HPS = 1234H		FSH = Frost Proof	

Example: 100 Watt, Metal Halide, E20 Vols, Single Fuse, Bronze
 YRD-1210H-1201F/BZ

5322 A Rafe Banks Drive • Flowery Branch, Georgia 30542 • 770-767-7050 alumiteinc.com



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VIEW FROM SOUTH BOUND ARNOLD DRIVE: EXISTING

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VIEW FROM SOUTH BOUND ARNOLD DRIVE

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VIEW FROM NORTH BOUND ARNOLD DRIVE: EXISTING

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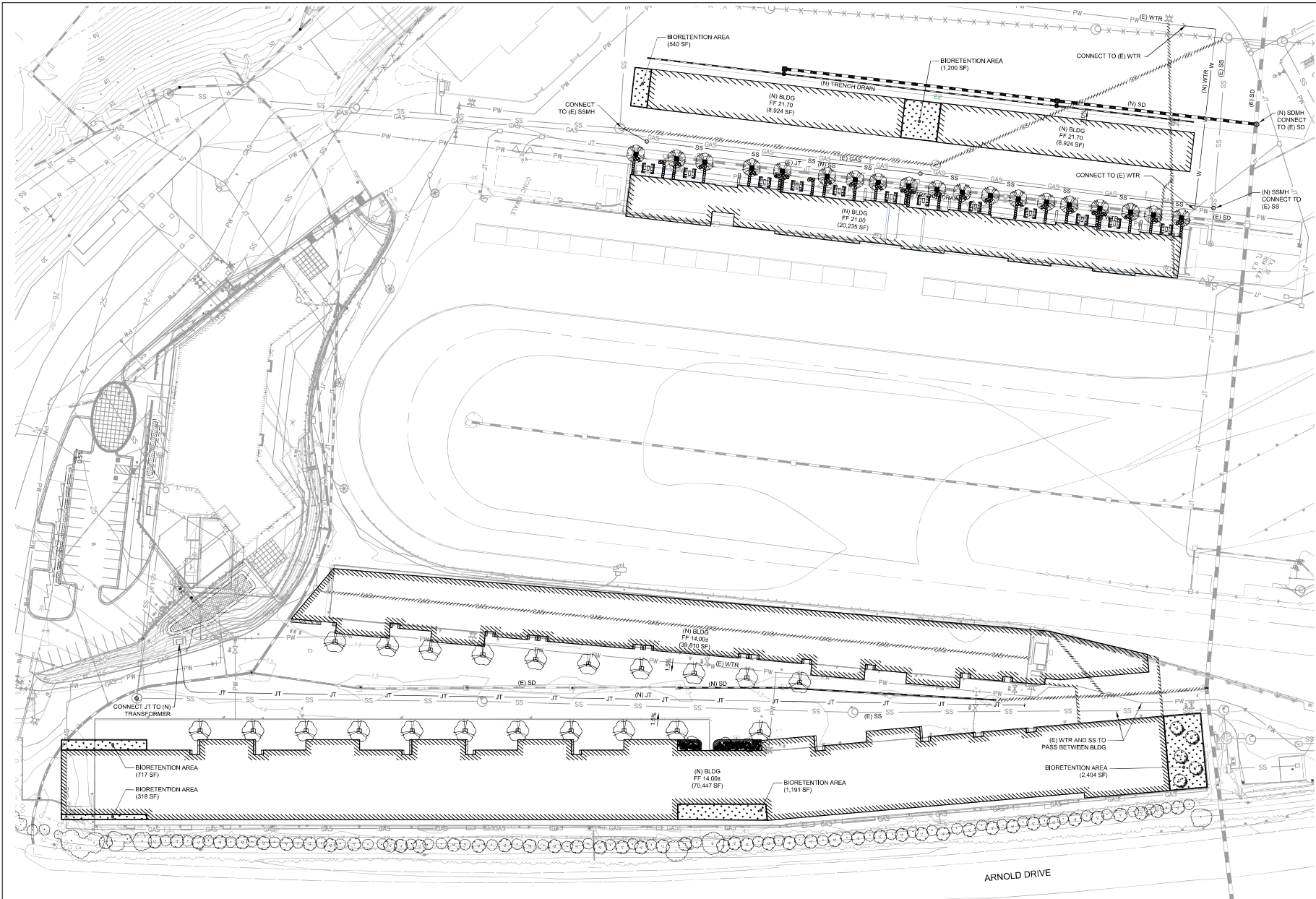
VIEW FROM NORTH BOUND ARNOLD DRIVE

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A-014

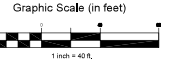
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NEW OR REPLACED IMPERVIOUS AREA	148,340 SF
BIORETENTION AREA REQUIRED	5,934 SF
BIORETENTION AREA PROPOSED	6,370 SF

LEGEND
 --- UTILITY TO BE REMOVED



OWNER:

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PROJECT ARCHITECT:
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 45 LEVERON COURT,
 NOVATO, CA 94949

GRADING & UTILITY PLAN

SONOMA RACEWAY
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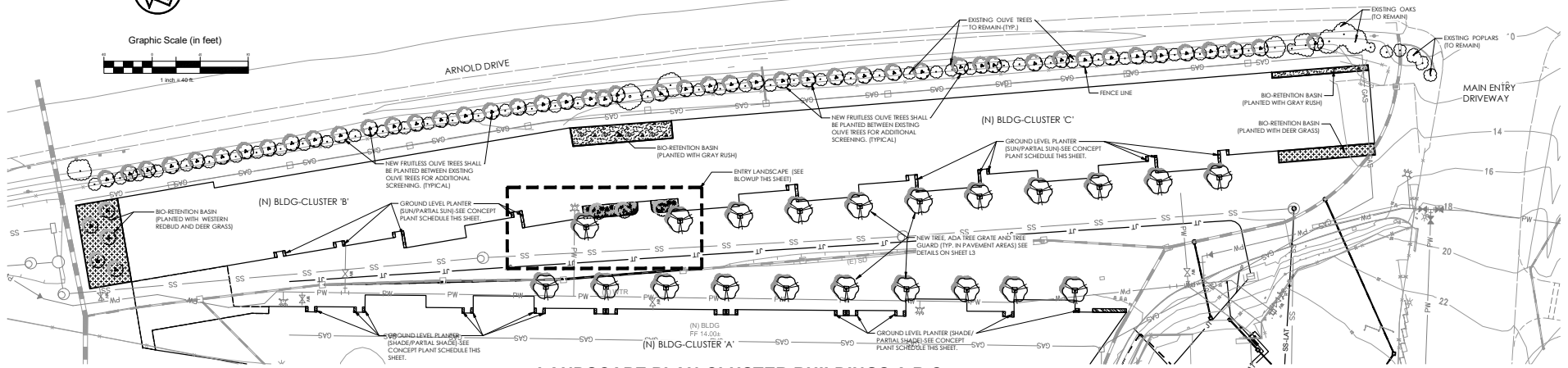
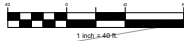
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NO. DATE
 6/29/21 FOR REVIEW

SCALE:
 1" = 40'



Graphic Scale (in feet)



LANDSCAPE PLAN-CLUSTER BUILDINGS A,B,C
SCALE 1"=40'

PLANT SCHEDULE BUILDING CLUSTERS A,B,C

TREES	QTY	BOTANICAL / COMMON NAME	CONT	WUCOLS	
	21	Gleditsia triacanthos 'Streetkeeper' / Honey Locust	24" box	Moderate	
	48	Olea europaea 'Swan Hill' / Multi-trunked Fruiless Olive	15 gal.	Low	
SHRUBS	QTY	BOTANICAL / COMMON NAME	CONT	WUCOLS	
	8	Cercis occidentalis / Western Redbud Multi-trunk	15 gal.	Low	
	48	Helictotrichon sempervirens / Blue Oat Grass	5 gal.	Low	
	12	Phormium tenax 'Dark Delight' / Dark Delight Flax	5 gal.	Low	
GROUND COVERS	QTY	BOTANICAL / COMMON NAME	CONT	WUCOLS	SPACING
	32	Juniperus horizontalis 'Mother Lode' / Mother Lode Creeping Juniper	1 gal.	Low	30" o.c.
BIO-RETENTION	QTY	BOTANICAL / COMMON NAME	CONT	WUCOLS	SPACING
	252	Junicus patens / California Gray Rush	1 gal.	Low	30" o.c.
	266	Muhlenbergia rigens / Deer Grass	1 gal.	Low	42" o.c.

EXISTING (OLIVE, OAK, AND CLELANDER) TREES/SHRUBS TO REMAIN (TYP.)

GENERAL NOTES

- All new landscape planting areas (except bio-retention and raised planters) shall receive a minimum 3"-4" layer of organic mulch top dressing. Bio-Retention basins shall not receive any mulch. Refer to civil drawings for soil profile. Raised planters shall receive amended potting soil.
- All new trees, shrubs and groundcover shall be irrigated with a drip system, smart controller, weather sensor, etc. and shall meet Sonoma County Efficient standards/regulations. Water supply is from an on-site well.
- All existing (to remain) trees and shrubs shall be protected in place. See detail sheet L3.

CONCEPT PLANT SCHEDULE BUILDING CLUSTERS A,B,C

RAISED AND GROUND LEVEL PLANTERS (SUN/PARTIAL SUN)	294 sf
LOW WATER USE	
Echeveria x 'Afterglow' / Afterglow Echeveria	1 gal.
Festuca ovina / Sheep Fescue	1 gal.
Gallardia x grandiflora / Blanketflower	1 gal.
Junicus patens / California Gray Rush	1 gal.
Lavandula angustifolia / English Lavender	1 gal.
Lomandra longifolia 'Baby Breeze' / Dwarf Mat Rush	1 gal.
Petalostemum peltatum / Ivy Geranium	1 gal.
Penstemon heterophyllus / Foothill Penstemon	1 gal.
Phormium tenax 'Jack Spaff' / New Zealand Flax	1 gal.
Phormium tenax 'Tiny Tiger' / Dwarf Flax	1 gal.
Salvia clevelandii / Cleveland Sage	1 gal.
Sedum spurnum / Two Row Stonecrop	1 gal.
Sedum telephium / Stonecrop	1 gal.
Senecio mandraliscae 'Blue Chalk Sticks' / Senecio	1 gal.
GROUND LEVEL PLANTERS (SHADE/PARTIAL SHADE)	303 sf
LOW WATER USE	
Carex tumulicola / Foothill Sedge	1 gal.
Gaultheria shallon / Salal	5 gal.
Junicus patens / California Gray Rush	1 gal.
Lomandra longifolia 'Baby Breeze' / Dwarf Mat Rush	1 gal.
Petalostemum peltatum / Ivy Geranium	5 gal.
Rhynchosia californica 'Seaview' / Seaview Coffeeberry	5 gal.
Sarcococca hookeriana / Sweetbox	5 gal.

Water Efficient Landscape Worksheet- All new landscape areas*

HYDROZONING/PLANTING DESCRIPTION	PLANT FACTOR (PF)	IRRG. METHOD	IRRG. EFFICIENCY (IE)	ETAF (PF/IE)	LANDSCAPE AREA (Sq. Ft.)	ETAF x AREA	ESTIMATED TOTAL WATER USE (ETWU)
REGULAR LANDSCAPE AREA							
LOW WATER USE (SHRUBS, TREES)	.3	DIP	.81	.37	9,806	3,628	87,950 GAL.
MODERATE WATER USE (HONEY LOCUST)	.5	DIP	.81	.42	336	208	5,047 GAL.
TOTALS					(A) 10,142	(B) 3,836	
							ETWU Total = 92,997 GAL.

Maximum Applied Water Allowance (MAWA): MAWA = $\frac{ETAF \times Conversion \ factor \ (ETAF) \times \text{Landscape Area}}{(PF) \times (IE)}$ = $\frac{(3.7) \times (10,142)}{(1.42) \times (1.42)}$ = 11,438 GALLONS

Estimated Total Water Use (ETWU): ETWU = $\frac{ETAF \times Conversion \ factor \ (ETAF) \times \text{Area}}{(PF) \times (IE)}$ = $\frac{(3.7) \times (10,142)}{(1.42) \times (1.42)}$ = 92,992 GALLONS

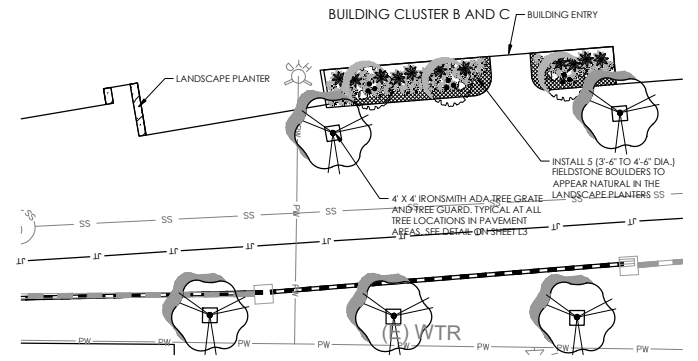
* Project will be serviced with on-site well water

ETAF Calculations

Regular Landscape Areas:

Total ETAF x Area	(B) 3,836
Total Area	(A) 10,142
Average ETAF	(B / A) .38

Note:
1. Average ETAF for Regular Landscape Areas must be below .45 for residential areas and .45 for non-residential areas.



LANDSCAPE BLOWUP-ENTRY LANDSCAPE
SCALE 1"=10'

OWNER:

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PROJECT ARCHITECT:

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45 LEVERON COURT,
NOVATO, CA 94949

LANDSCAPE PLAN-CLUSTER BUILDINGS A,B,C
SONOMA RACEWAY
29355 Arnold Dr, Sonoma, CA 95476

L1.0

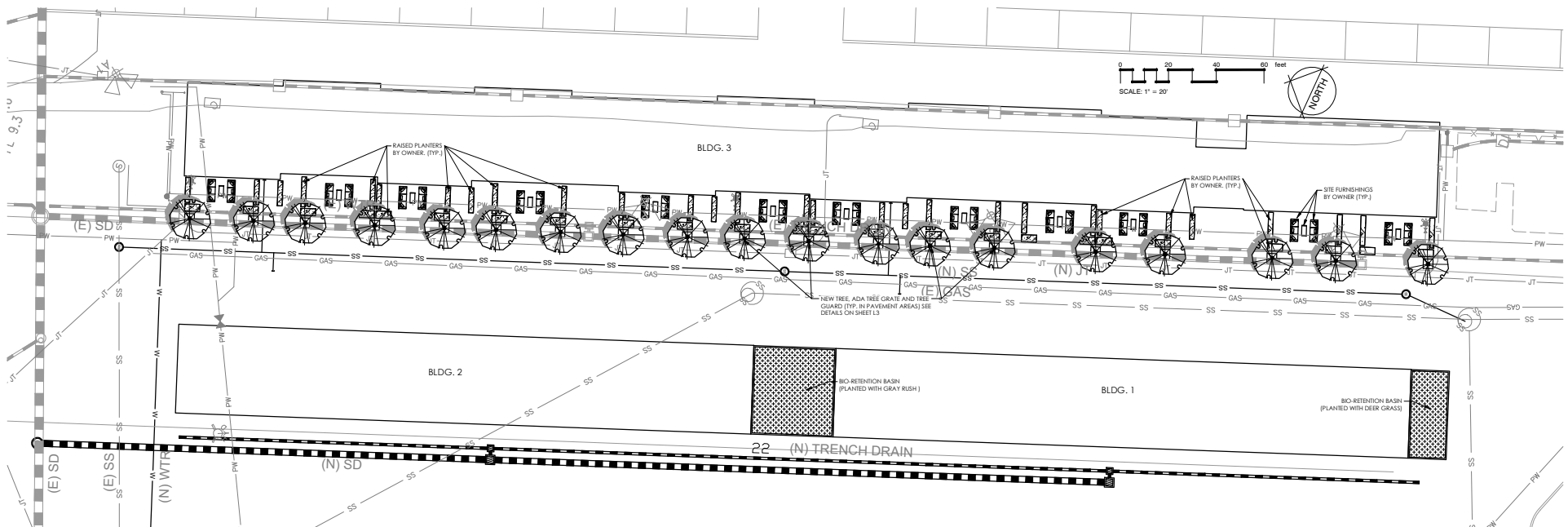
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SCALE:
SEE PLAN

OLIVE STREET LANDSCAPE ARCHITECTURE
P.O. Box 2083
Petaluma CA 94952
707-280-8990
olivestreetlandscape.com
rod@olivestreetlandscape.com



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LANDSCAPE PLAN-BUILDINGS 1,2,3
SCALE 1"=20'

PLANT SCHEDULE BUILDING 1,2,3

TREES	QTY	BOTANICAL / COMMON NAME	CONT	WUCOLS
	19	Prunus cerasifera 'Krauter Vesuvius' / Krauter Vesuvius Purple-leaf Plum	15 gal.	Low

BIO-RETENTION	QTY	BOTANICAL / COMMON NAME	CONT	WUCOLS	SPACING
	148	Muhlenbergia rigens / Deer Grass	1 gal.	Low	42" o.c.

CONCEPT PLANT SCHEDULE BUILDING 1,2,3

RAISED AND GROUND LEVEL PLANTERS (SUN/PARTIAL SUN)	1,121 sf
LOW WATER USE	
Echeveria x 'Afterglow' / Afterglow Echeveria	1 gal.
Festuca ovina / Sheep Fescue	1 gal.
Gallardia x grandiflora / Bunkflower	1 gal.
Jurjura patens / California Gray Rush	1 gal.
Lavandula angustifolia / English Lavender	1 gal.
Lomandra longifolia 'Stacy Sweasel' / Dwarf Hair Rush	1 gal.
Petargonium peltatum / Ivy Geranium	1 gal.
Peristemon heterophyllus / Footfall Peristemon	1 gal.
Phormium tenax 'Jack Sparrr' / New Zealand Flax	1 gal.
Phormium tenax 'Tiny Tiger' / Dwarf Flax	1 gal.
Salvia clevelandii / Cleveland Sage	1 gal.
Sedum spatum / Two Row Stonecrop	1 gal.
Sedum telephium / Stonecrop	1 gal.
Senecio mandraliscae Blue Chalk Sticks / Senecio	1 gal.

GENERAL NOTES

- All new landscape planting areas (except bio-retention and raised planters) shall receive a minimum 3"-4" layer of organic mulch top dressing. Bio-retention basins shall not receive any mulch. Refer to civil drawings for soil profile. Raised planters shall receive amended potting soil.
- All new trees, shrubs and groundcover shall be irrigated with a drip system, smart controller / weather sensor, etc. and shall meet Sonoma County Efficient standards/regulations. Water supply is from an on-site well.
- All existing (to remain) trees and shrubs shall be protected in place. See detail, sheet L3.

OWNER:

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PROJECT ARCHITECT:

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NOVATO, CA 94949

LANDSCAPE PLAN BUILDINGS 1,2,3

SONOMA RACEWAY
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L1.1

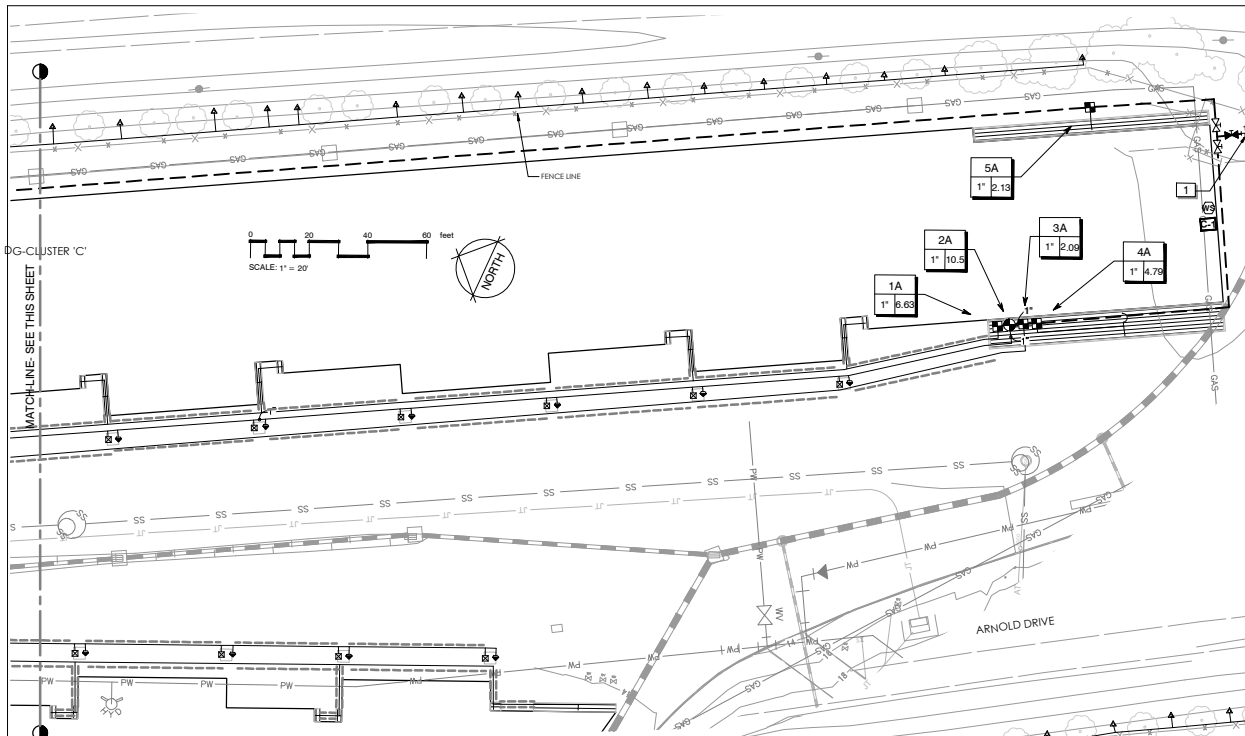
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SCALE:
SEE PLAN

OLIVE STREET LANDSCAPE ARCHITECTURE
P.O. Box 2083
Petaluma CA 94952
707-280-8990
olivestreetlandscape.com
rod@olivestreetlandscape.com

REGISTERED LANDSCAPE ARCHITECT
Rodney L. Saccoccio
No. 4452
Exp. 09/30/22
STATE OF CALIFORNIA

C:\Users\rod\Documents\Projects\SONOMA RACEWAY\LANDSCAPE PLAN\DWG\95022-0303.PDW Issue: L1



IRRIGATION SCHEDULE BUILDINGS A,B,C

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PI
RS	Rain Bird RWS-B-C 1400 Series Root Watering System with 4.0" diameter x 36.0' long with locking grate, semi-rigid mesh tube, and check valve. Rain Bird bubbler option as indicated: 1401 0.25 GPM, 1402 0.5 GPM, 1404 1.0 GPM, 1408 2.0 GPM.	21	20
RS	Rain Bird RWS-M-B-C 1400 Series Mini Root Watering System with 4" diameter x 18" long with locking grate, semi-rigid mesh tube and Rain Bird 1401 0.25 GPM or 1402 0.5 GPM bubbler as indicated. With Check Valve.	21	20
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	
WV	Rain Bird KCI 100-FLOW Wide Flow Dip Control Kit for Commercial Applications. 1" Ball Valve with IPESB Valve 0.3-20 gpm and 1" Pressure Regulating 40psi Flow-indicating Basket Filter 0.3-20 gpm.	7	
WV	Rain Bird PCT Pressure Compensating Threaded Low-Flow Bubblers. Offered in 5 GPH, 7 GPH, and 10 GPH models, with 1/2" FPT Threaded Inlet. Light Brown = 5 GPH, Violet = 7 GPH, and Green = 10 GPH.	48	
DI	Area to Receive Dripline Helafilm TLCV-09-18 Technique Pressure Compensating Landscape Dripline with Check Valve. 0.9 GPH emitters at 18" O.C. Dripline laterals spaced at 18" apart, with emitters offset for triangular pattern, 17ft/m.	3,954	LI.
SV	MANUFACTURER/MODEL/DESCRIPTION	QTY	
SV	Rain Bird PESB 1", 1-1/2", 2" Plastic Industrial Valves. Low Flow Operating Capability, Globe Configuration, With Scrubber Technology for Reliable Performance in Dirty water Irrigation Applications.	1	
SV	Landscape Products Inc. BBV 1/2", 3/4", 1", 1-1/4", 1-1/2", 2", 2-1/2", 3" Full Port Brass Ball Valve. Suitable for a full range of liquids and gases in residential and commercial applications.	2	
SV	NBco 1113-K Class 125 bronze gate shut off valve with cross handle, same size as mainline pipe diameter of valve location. Size Range - 1/4" - 3"	1	
SV	Point of Connection 1 1/2"	1	

---	Irrigation Lateral Line: PVC Schedule 40 3/4" unless otherwise noted on plan. 12" maximum depth	5,098	LI.
---	Irrigation Mainline: PVC Schedule 40 1-1/4" unless otherwise noted on plan. 18" minimum depth	1,214	LI.
---	Pipe Sleeve: PVC Schedule 40 2x the diameter of pipes served and 1" for control wires. Minimum depth of 24"	1,158	LI.

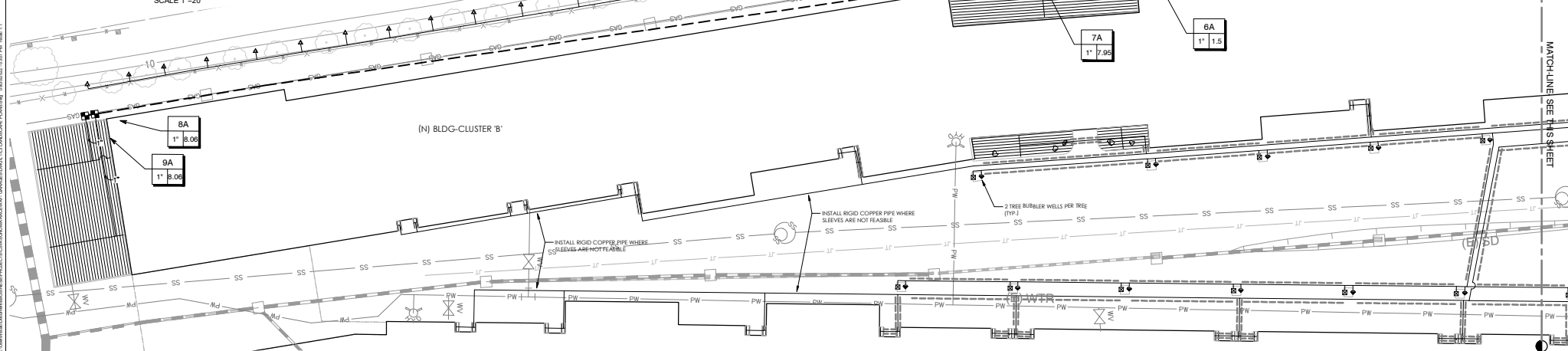
GENERAL IRRIGATION NOTES

1. Locate all irrigation equipment in landscape planters. Equipment shown in pavement and/or offsite is for clarity only. All valve boxes shall be located at least 2' from any pavement, structures, utilities, etc.
2. Irrigation sleeves as indicated on legend and plan shall be installed at all pavement/landscape crossings.
3. Contact 811 (Before you dig) prior to commencing any construction.

REFERENCE NOTES SCHEDULE BUILDINGS A,B,C

SYMBOL	DESCRIPTION
PI	Irrigation Point of Connection (POC): Locate existing irrigation mainline (from outside well) and connect. Coordinate and verify exact location with client representative. Minimum requirements at POC shall be 11 GPM @ 55 PSI. If minimum requirements are not met, contact Landscape Architect. If Pressure exceeds 60 PSI install a Wilkins Brass pressure reducer in a valve box and set pressure to 65 PSI. Install Gate Valve @ POC location.

IRRIGATION PLAN-BUILDINGS 1,2,3



OWNER:

SONOMA RACEWAY

29355 Arnold Dr, Sonoma, CA 95476

PROJECT ARCHITECT:

PERKINS EASTMAN

PROJECT ARCHITECT:
115 5TH AVE., NEW YORK, NY 10003
(T) 212.353.7200

Civil / Site:
CSW | ST2
45 LEVERON COURT,
NOVATO, CA 94949

IRRIGATION PLAN BUILDINGS A,B,C

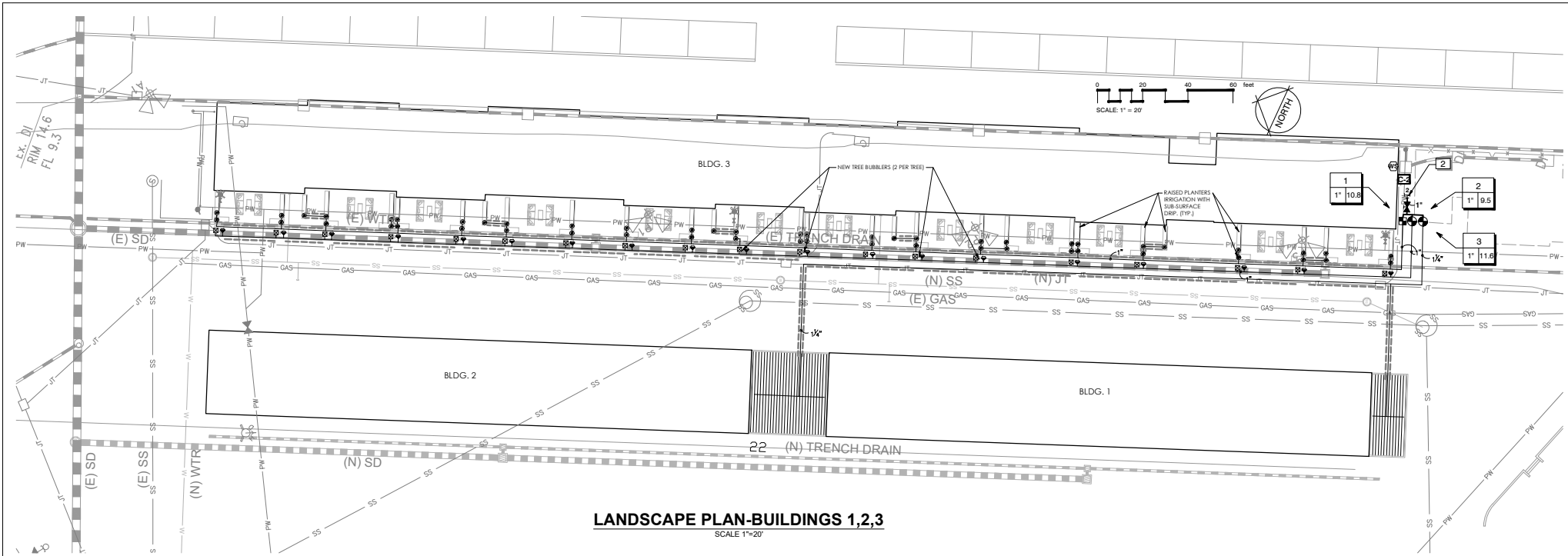
SONOMA RACEWAY

29355 Arnold Dr, Sonoma, CA 95476

L2.0

NO. DATE
9/29/22 PLANNING

SCALE:
SEE PLAN

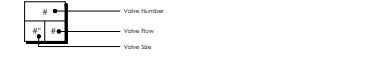


LANDSCAPE PLAN-BUILDINGS 1,2,3
SCALE 1"=20'

IRRIGATION SCHEDULE BUILDINGS 1,2,3

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PS
	Rain Bird RWS-B-C 1400 Series Root Watering System with 4.0" diameter x 36.0" long with locking grate, semi-rigid mesh tube, and check valve. Rain Bird bubbler option as indicated: 1401 0.25 GPM, 1402 0.5 GPM, 1404 1.0 GPM, 1408 2.0 GPM.	19	20
	Rain Bird RWS-M-B-C 1400 Series Mini Root Watering System with 4" diameter x 18" long with locking grate, semi-rigid mesh tube and Rain Bird 1401 0.25 GPM or 1402 0.5 GPM bubbler as indicated. With Check Valve.	19	20
	Rain Bird XCV-100-RCW Wide Flow Drip Control Kit for Commercial Applications, 1" Ball Valve with 1" PESB Valve 0.3-20 gpm and 1" Pressure Regulating 40psi Flow-Indicating Basket Filter 0.3-20 gpm.	1	
	Pipe Transition Point in Drip Box Pipe (Quick connect) transition point from PVC lateral to drip tubing in 6" (150mm) traffic rated valve box.	53	
	Area to Receive Dipline Netafilm TLCV-06-12 Technique Pressure Compensating Landscape Dipline with Check Valve, 0.6 GPH emitters at 12" O.C. Dipline laterals spaced at 12" apart, with emitters offset for triangular pattern, 17mm.	1,121 LT.	
	Area to Receive Dipline Netafilm TLCV-09-18 Technique Pressure Compensating Landscape Diplines with Check Valve, 0.9 GPH emitters at 18" O.C. Dipline laterals spaced at 18" apart, with emitters offset for triangular pattern, 17mm.	1,161 LT.	
	Rain Bird PESS 1" 1-1/2" 2" Plastic Industrial Valves, Low Flow Operating Capability, Globe Configuration, With Scrubber Technology for Reliable Performance in Dirty Water Irrigation Applications.	2	
	Nibco 1-113-K Class 125 bronze gate shut-off valve with cross handle, same size as mainline pipe diameter at valve location. Size Range - 1/4" - 3"	1	

	Hunter ZC-0800-PL 8 Station Outdoor Modular Controller. No Module Required. Commercial Use. Plastic Cabinet.	1
	Hunter WSS Wireless Solar, rain freeze sensor with outdoor interface, connects to Hunter PCC, Pro-C, and i-Care Controllers. Install as noted. Includes 10 year lithium battery and rubber module cover, and gutter mount bracket.	1
	Point of Connection 1 1/2"	1
	Irrigation Lateral Line: PVC Schedule 40 3/4" unless otherwise noted on plan. 12" minimum depth.	1,861 LT.
	Irrigation Mainline: PVC Schedule 40 1-1/4" unless otherwise noted on plan. 18" minimum depth	26.2 LT.
	Pipe Sleeve: PVC Schedule 40 24" line diameter of pipes served and 1" for control wires. Minimum depth of 24"	563.0 LT.



- GENERAL IRRIGATION NOTES**
1. Locate all irrigation equipment in landscape planters. Equipment shown in pavement and/or offsite is for clarity only. All valve boxes shall be located at least 2' from any pavement, structures, utilities, etc.
 2. Irrigation sleeves as indicated on legend and plan shall be installed at all pavement/hardscape crossings.
 3. Contact 811 (Before you dig) prior to commencing any construction.

REFERENCE NOTES SCHEDULE BUILDINGS 1,2,3

SYMBOL	DESCRIPTION
	Irrigation Point of Connection (POC): Locate existing irrigation mainline (from onsite well) and connect. Coordinate and verify exact location with client representative. Minimum requirements at POC shall be 12 GPM @ 59 PSI. If minimum requirements are not met contact Landscape Architect. If Pressure exceeds 80 PSI install a Wilkins Brass pressure reducer in a valve box and set pressure to 45 PSI. Install Gate valve @ POC location.

CRITICAL ANALYSIS-POC #1

Generated: 2022-09-30 11:18

P.O.C. NUMBER: 01
Water Source Information:

FLOW AVAILABLE
Point of Connection Size: 1 1/2"
Flow Available: 46.59 GPM

PRESSURE AVAILABLE
Static Pressure at POC: 60 PSI
Pressure Available: 60 PSI

DESIGN ANALYSIS
Maximum Station Flow: 10.5 GPM
Flow Available at POC: 46.59 GPM
Residual Flow Available: 36.59 GPM

Critical Station: 9A
Design Pressure: 15 PSI
Friction Loss: 1.94 PSI
Fittings Loss: 0.19 PSI
Elevation Loss: 0 PSI
Loss Through Valve: 17.15 PSI
Pressure Req. at Critical Station: 34.29 PSI
Loss for Fittings: 1.87 PSI
Loss for Main Line: 18.72 PSI
Loss for POC to Valve Elevation: 0 PSI
Loss for Backflow: 0 PSI
Critical Station Pressure at POC: 54.88 PSI
Pressure Available: 60 PSI
Residual Pressure Available: 5.12 PSI

CRITICAL ANALYSIS-POC #2

Generated: 2022-09-30 11:22

P.O.C. NUMBER: 01
Water Source Information:

FLOW AVAILABLE
Point of Connection Size: 1 1/2"
Flow Available: 46.59 GPM

PRESSURE AVAILABLE
Static Pressure at POC: 60 PSI
Pressure Available: 60 PSI

DESIGN ANALYSIS
Maximum Station Flow: 11.61 GPM
Flow Available at POC: 46.59 GPM
Residual Flow Available: 34.98 GPM

Critical Station: 1
Design Pressure: 15 PSI
Friction Loss: 17.09 PSI
Fittings Loss: 1.71 PSI
Elevation Loss: 0 PSI
Loss Through Valve: 24.34 PSI
Pressure Req. at Critical Station: 58.14 PSI
Loss for Fittings: 0.04 PSI
Loss for Main Line: 0.4 PSI
Loss for POC to Valve Elevation: 0 PSI
Loss for Backflow: 0 PSI
Critical Station Pressure at POC: 58.58 PSI
Pressure Available: 60 PSI
Residual Pressure Available: 1.42 PSI

OWNER:

SONOMA RACEWAY
29355 Arnold Dr, Sonoma, CA 95476

PROJECT ARCHITECT:

PERKINS EASTMAN
PROJECT ARCHITECT:
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Civil / Site:
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45 LEVERON COURT,
NOVATO, CA 94949

IRRIGATION PLAN BUILDINGS 1,2,3

SONOMA RACEWAY
29355 Arnold Dr, Sonoma, CA 95476

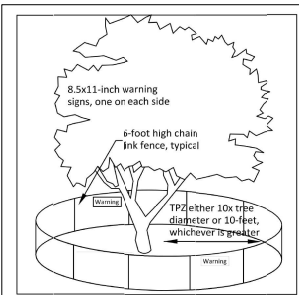
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NO. DATE
9/29/22 PLANNING

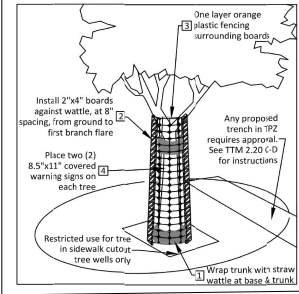
SCALE:
SEE PLAN

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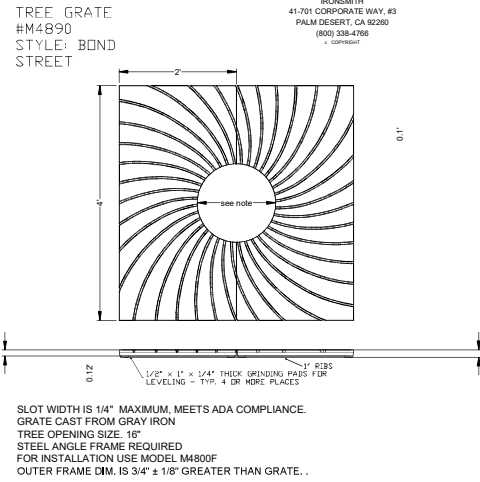
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Type II Tree Protection: Layout configuration applies to all parkway strip or public trees near sidewalk.



1 TREE PROTECTION-TYPICAL



2 TREE GRATE



3 IRONSMITH BOND TREE GRATE



4 TREE GUARD

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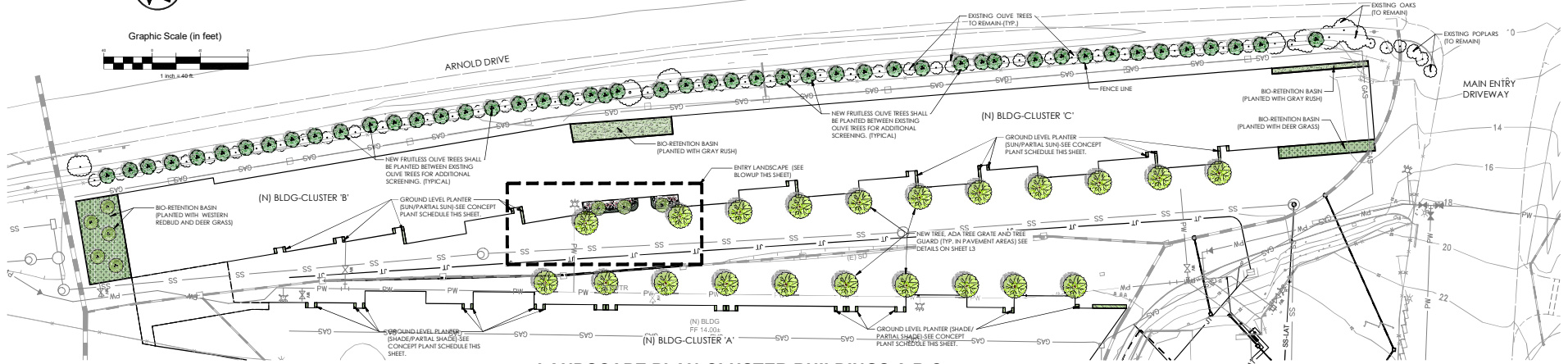
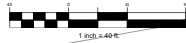
<p>OWNER:</p> <p>SONOMA RACEWAY</p> <p>29355 Arnold Dr, Sonoma, CA 95476</p>	<p>PROJECT ARCHITECT:</p> <p>PERKINS EASTMAN</p> <p>PROJECT ARCHITECT: 115 5TH AVE., NEW YORK, NY 10003 (T) 212.353.7200</p> <p>Civil / Site: CSW ST2 45 LEVERON COURT, NOVATO, CA 94949</p>	<p>LANDSCAPE DETAILS</p> <p>SONOMA RACEWAY</p> <p>29355 Arnold Dr, Sonoma, CA 95476</p>	<p>L3.0</p>	<p>NO. DATE</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">9/29/22</td> <td style="width: 50%;">PLANNING</td> </tr> </table> <p>SCALE: SEE PLAN</p>	9/29/22	PLANNING
9/29/22	PLANNING					

OLIVE STREET
LANDSCAPE ARCHITECTURE

P.O. Box 2083
Petaluma CA 94952
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Graphic Scale (in feet)



LANDSCAPE PLAN-CLUSTER BUILDINGS A,B,C
SCALE 1"=40'

PLANT SCHEDULE BUILDING CLUSTERS A,B,C

TREES	QTY	BOTANICAL / COMMON NAME	CONT	WUCOLS	
	21	Gleditsia triacanthos 'Streetkeeper' / Honey Locust	24" box	Moderate	
	48	Olea europaea 'Swan Hill' / Multi-trunked Fruiless Olive	15 gal.	Low	
SHRUBS	QTY	BOTANICAL / COMMON NAME	CONT	WUCOLS	
	8	Cercis occidentalis / Western Redbud Multi-trunk	15 gal.	Low	
	48	Helictotrichon sempervirens / Blue Oat Grass	5 gal.	Low	
	12	Phormium tenax 'Dark Delight' / Dark Delight Flax	5 gal.	Low	
GROUND COVERS	QTY	BOTANICAL / COMMON NAME	CONT	WUCOLS	SPACING
	32	Juniperus horizontalis 'Mother Lode' / Mother Lode Creeping Juniper	1 gal.	Low	30" o.c.
BIO-RETENTION	QTY	BOTANICAL / COMMON NAME	CONT	WUCOLS	SPACING
	252	Junco patens / California Gray Rush	1 gal.	Low	30" o.c.
	266	Muhlenbergia rigens / Deer Grass	1 gal.	Low	42" o.c.

EXISTING (OLIVE, OAK, AND CLELANDER) TREES/SHRUBS TO REMAIN (TYP.)

GENERAL NOTES

- All new landscape planting areas (except bio-retention and raised planters) shall receive a minimum 3"-4" layer of organic mulch too dressing. Bio-Retention basins shall not receive any mulch. Refer to civil drawings for soil profile. Raised planters shall receive amended potting soil.
- All new trees, shrubs and groundcover shall be irrigated with a drip system, smart controller, weather sensor, etc. and shall meet Sonoma County Efficient standards/regulations. Water supply is from an onsite well.
- All existing (to remain) trees and shrubs shall be protected in place. See detail sheet L3.

CONCEPT PLANT SCHEDULE BUILDING CLUSTERS A,B,C

RAISED AND GROUND LEVEL PLANTERS (SUN/PARTIAL SUN)	294 sf
LOW WATER USE	
Echeveria x 'Afterglow' / Afterglow Echeveria	1 gal.
Festuca ovina / Sheep Fescue	1 gal.
Gallardia x grandiflora / Blanketflower	1 gal.
Junco patens / California Gray Rush	1 gal.
Lavandula angustifolia / English Lavender	1 gal.
Lomandra longifolia 'Baby Breeze' / Dwarf Mat Rush	1 gal.
Petalostemum peltatum / Ivy Geranium	1 gal.
Penstemon heterophyllus / Foothill Penstemon	1 gal.
Phormium tenax 'Jack Spaff' / New Zealand Flax	1 gal.
Phormium tenax 'Tiny Tiger' / Dwarf Flax	1 gal.
Salvia clevelandii / Cleveland Sage	1 gal.
Sedum spurnum / Two Row Stonecrop	1 gal.
Sedum telephium / Stonecrop	1 gal.
Senecio mandraliscae 'Blue Chalk Sticks' / Senecio	1 gal.

GROUND LEVEL PLANTERS (SHADE/PARTIAL SHADE)	303 sf
LOW WATER USE	
Carex tumulicola / Foothill Sedge	1 gal.
Gaulltheria shallon / Salal	5 gal.
Junco patens / California Gray Rush	1 gal.
Lomandra longifolia 'Baby Breeze' / Dwarf Mat Rush	1 gal.
Petalostemum peltatum / Ivy Geranium	5 gal.
Rhynchosia californica 'Seaview' / Seaview Coffeeberry	5 gal.
Sarcococca hookeriana / Sweetbox	5 gal.

Water Efficient Landscape Worksheet- All new landscape areas*

HYDROZONING/PLANNING DESCRIPTION	PLANT FACTOR (PF)	IRRG. METHOD	IRRG. EFFICIENCY (IE)	ETAF (PF/IE)	LANDSCAPE AREA (Sq. Ft.)	ETAF x AREA	ESTIMATED TOTAL WATER USE (ETWU)
REGULAR LANDSCAPE AREA							
LOW WATER USE (SHRUBS, TREES)	.3	DIP	.81	.37	9,806	3,628	87,950 GAL.
MODERATE WATER USE (HONEY LOCUST)	.5	DIP	.81	.62	336	208	5,047 GAL.
TOTALS					(A) 10,142	(B) 3,836	
							ETWU Total 92,997 GAL.

Maximum Applied Water Allowance (MAWA). MAWA = $\frac{[Ea] \times [Conversion Factor]}{[PF] \times [IE]}$ (Landscape Area) = $\frac{[1.42] \times [3.836]}{[.42] \times [1.42]} \times [10,142] = 110,438$ GALLONS

Estimated Total Water Use (ETWU). ETWU = $\frac{[Ea] \times [Conversion Factor] \times [ETAF] \times [Area]}{[PF] \times [IE]}$ = $\frac{[1.42] \times [3.836] \times [10,142]}{[.42] \times [1.42]} = 92,992$ GALLONS

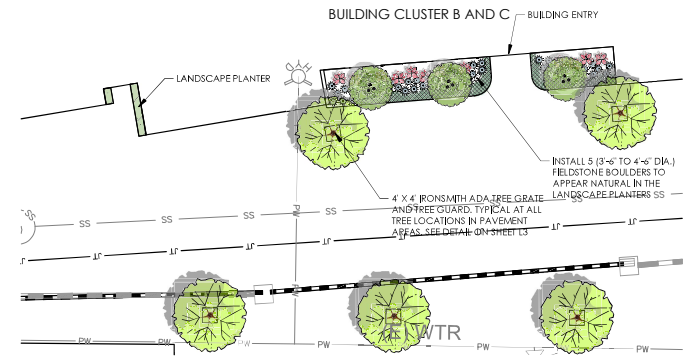
* Project will be serviced with onsite well water

ETAF Calculations

Regular Landscape Areas:

Total ETAF x Area	(B) 3,836
Total Area	(A) 10,142
Average ETAF	(B / A) .38

Note:
1. Average ETAF for Regular Landscape Areas must be below .55 for residential areas and .45 for non-residential areas.



LANDSCAPE BLOWUP-ENTRY LANDSCAPE
SCALE 1"=10'



OLIVE STREET LANDSCAPE ARCHITECTURE

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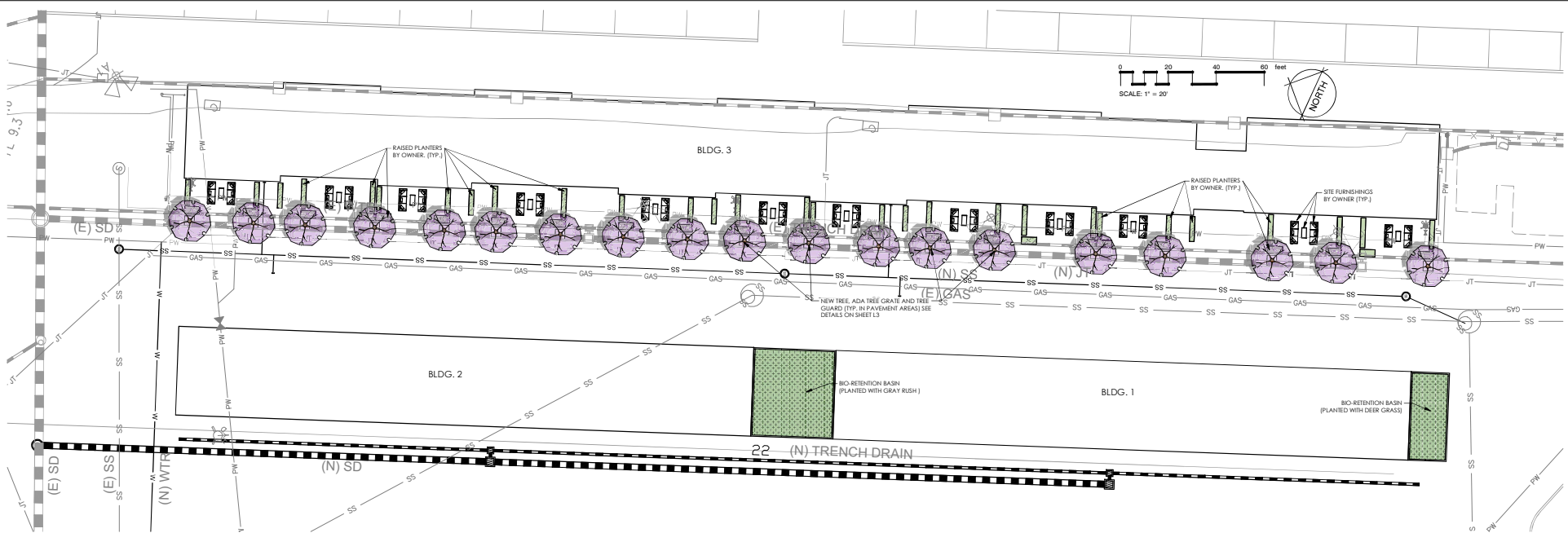
LANDSCAPE PLAN-CLUSTER BUILDINGS A,B,C

SONOMA RACEWAY
29355 Arnold Dr, Sonoma, CA 95476

L1.0

NO. DATE
9/29/22 PLANNING

SCALE:
SEE PLAN



LANDSCAPE PLAN-BUILDINGS 1,2,3
SCALE 1"=20'

PLANT SCHEDULE BUILDING 1,2,3

TREES	QTY	BOTANICAL / COMMON NAME	CONT	WUCOLS	
	19	Prunus cerasifera 'Krauter Vesuvius' / Krauter Vesuvius Purple-leaf Plum	15 gal.	Low	
BIO-RETENTION	QTY	BOTANICAL / COMMON NAME	CONT	WUCOLS	SPACING
	148	Muhlenbergia rigens / Deer Grass	1 gal.	Low	42' o.c.

CONCEPT PLANT SCHEDULE BUILDING 1,2,3

RAISED AND GROUND LEVEL PLANTERS (SUN/PARTIAL SUN)	1,121 sf
LOW WATER USE	
Echeveria x 'Afterglow' / Afterglow Echeveria	1 gal.
Festuca ovina / Sheep Fescue	1 gal.
Gallardia x grandiflora / Bunkflower	1 gal.
Jurjaca pallens / California Gray Rush	1 gal.
Lavandula angustifolia / English Lavender	1 gal.
Lomandra longifolia 'Stacy Steeles' / Dwarf Hair Rush	1 gal.
Petargonium peltatum / Ivy Geranium	1 gal.
Peristemon heterophyllus / Footfall Peristemon	1 gal.
Phormium tenax 'Jack Sparoff' / New Zealand Flax	1 gal.
Phormium tenax 'Tiny Tiger' / Dwarf Flax	1 gal.
Salvia clevelandii / Cleveland Sage	1 gal.
Sedum spumulosum / Two Row Stonecrop	1 gal.
Sedum telephium / Stonecrop	1 gal.
Senecio mandraliscae Blue Chalk Sticks / Senecio	1 gal.

GENERAL NOTES

- All new landscape planting areas (except bio-retention and raised planters) shall receive a minimum 3"-4" layer of organic mulch top dressing. Bio-Retention basins shall not receive any mulch. Refer to civil drawings for soil profile. Raised planters shall receive amended potting soil.
- All new trees, shrubs and groundcover shall be irrigated with a drip system, smart controller, weather sensor, etc. and shall meet Sonoma County Efficient standards/regulations. Water supply is from an on-site well.
- All existing (to remain) trees and shrubs shall be protected in place. See detail, sheet L3.

OWNER:

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PROJECT ARCHITECT:

PERKINS EASTMAN

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(T) 212.353.7200

Civil / Site:
CSW | ST2
45 LEVERON COURT,
NOVATO, CA 94949

LANDSCAPE PLAN BUILDINGS 1,2,3

SONOMA RACEWAY
29355 Arnold Dr, Sonoma, CA 95476

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NO.	DATE	DESCRIPTION
9/29/22		PLANNING

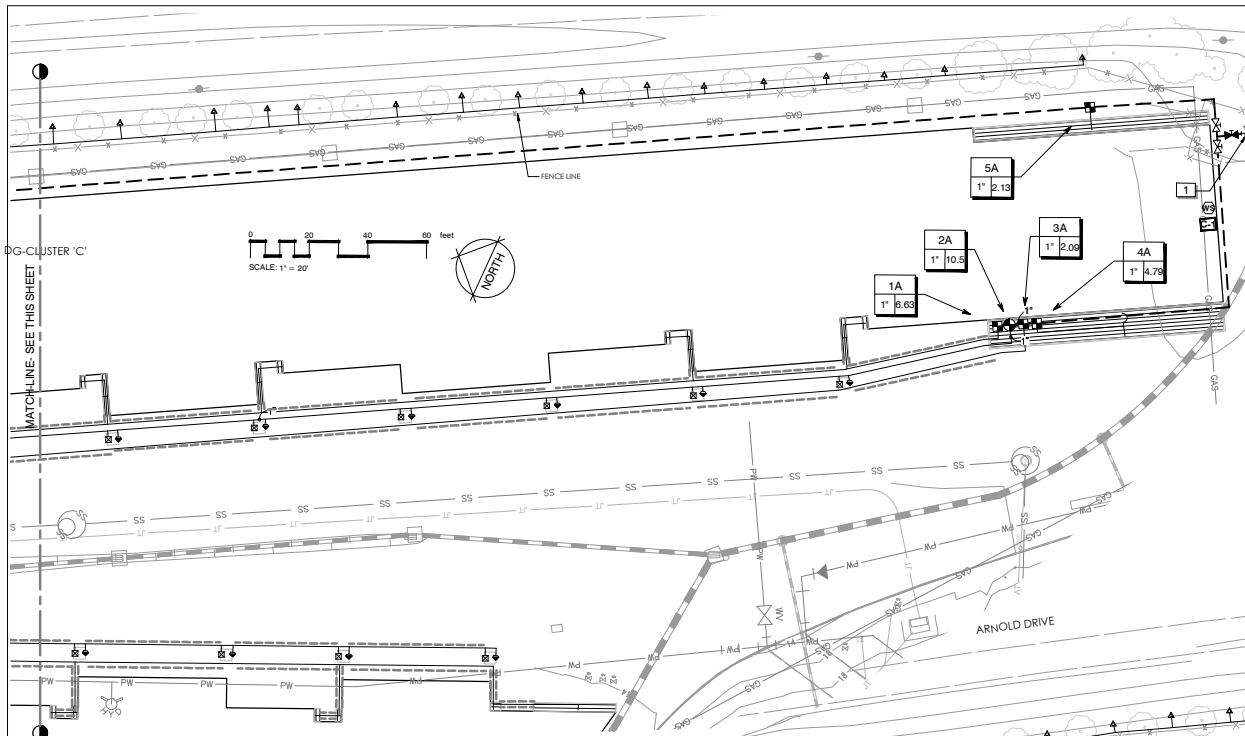
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OLIVE STREET LANDSCAPE ARCHITECTURE



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IRRIGATION SCHEDULE BUILDINGS A,B,C

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PI
RS	Rain Bird RWS-B-C 1400 Series Mini Root Watering System with 4.0" diameter x 36.0" long with locking grate, semi-rigid mesh tube, and check valve. Rain Bird bubbler option as indicated: 1401 0.25 GPM, 1402 0.5 GPM, 1404 1.0 GPM, 1408 2.0 GPM.	21	20
RS	Rain Bird RWS-M-B-C 1400 Series Mini Root Watering System with 4" diameter x 18" long with locking grate, semi-rigid mesh tube and Rain Bird 1401 0.25 GPM or 1402 0.5 GPM bubbler as indicated. With Check Valve.	21	20
SYMBOL <th>MANUFACTURER/MODEL/DESCRIPTION</th> <th>QTY</th> <th></th>	MANUFACTURER/MODEL/DESCRIPTION	QTY	
WV	Rain Bird WC1 100-Flow Wide Flow Dip Control Kit for Commercial Applications. 1" Ball Valve with IPESB Valve 0.3-20 gpm and 1" Pressure Regulating 40psi Flow-Indicating Basket Filter 0.3-20 gpm.	7	
WV	Rain Bird PCT Pressure Compensating Threaded Low-Flow Bubblers. Offered in 5 GPH, 7 GPH, and 10 GPH models, with 1/2" FPT Threaded Inlet. Light Brown = 5 GPH, Violet = 7 GPH, and Green = 10 GPH.	48	
Area	Area to Receive Dripline Helafilm TLCV-09-18 Technique Pressure Compensating Landscape Dripline with Check Valve. 0.9 GPH emitters at 18" O.C. Dripline laterals spaced at 18" apart, with emitters offset for triangular pattern, 17ft/m.	3,954	LI.
SYMBOL <th>MANUFACTURER/MODEL/DESCRIPTION</th> <th>QTY</th> <th></th>	MANUFACTURER/MODEL/DESCRIPTION	QTY	
PIV	Rain Bird PISB 1", 1-1/2", 2" Plastic Industrial Valves. Low Flow Operating Capability, Globe Configuration, With Scrubber Technology for Reliable Performance in Dirty water Irrigation Applications.	1	
PIV	Landscape Products Inc. BBV 1/2", 3/4", 1", 1-1/4", 1-1/2", 2", 2-1/2", 3" Full Port Brass Ball Valve. Suitable for a full range of liquids and gases in residential and commercial applications.	2	
PIV	NBco 1113-K Class 125 bronze gate shut off valve with cross handle, same size as mainline pipe diameter of valve location. Size Range - 1/4" - 3"	1	
PIV	Point of Connection 1 1/2"	1	

---	Irrigation Lateral Line: PVC Schedule 40 3/4" unless otherwise noted on plan. 12" min/run depth	5,098	LI.
---	Irrigation Mainline: PVC Schedule 40 1-1/4" unless otherwise noted on plan. 18" minimum depth	1,214	LI.
---	Pipe Sleeve: PVC Schedule 40 2x the diameter of pipes served and 1" for control wires. Minimum depth of 24"	1,158	LI.



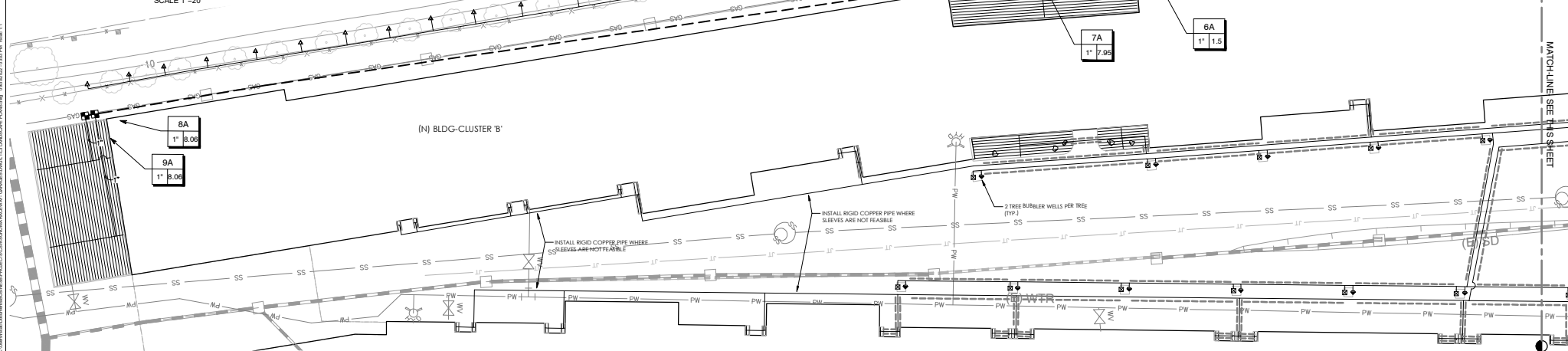
GENERAL IRRIGATION NOTES

1. Locate all irrigation equipment in landscape planters. Equipment shown in pavement and/or offsite is for clarity only. All valve boxes shall be located at least 2' from any pavement, structures, utilities, etc.
2. Irrigation sleeves as indicated on legend and plan shall be installed at all pavement/landscape crossings.
3. Contact 811 (Before you dig) prior to commencing any construction.

REFERENCE NOTES SCHEDULE BUILDINGS A,B,C

SYMBOL	DESCRIPTION
PI	Irrigation Point of Connection (POC): Locate existing irrigation mainline (from outside well) and connect. Coordinate and verify exact location with client representative. Minimum requirements at POC shall be 11 GPM @ 55 PSI. If minimum requirements are not met, contact Landscape Architect. If Pressure exceeds 60 PSI install a Wilkins Brass pressure reducer in a valve box and set pressure to 65 PSI. Install Gate Valve @ POC location.

IRRIGATION PLAN-BUILDINGS 1,2,3



OWNER:

SONOMA RACEWAY

29355 Arnold Dr, Sonoma, CA 95476

PROJECT ARCHITECT:

PERKINS EASTMAN

PROJECT ARCHITECT:
115 5TH AVE., NEW YORK, NY 10003
(T) 212.353.7200

Civil / Site:
CSW | ST2
45 LEVERON COURT,
NOVATO, CA 94949

IRRIGATION PLAN BUILDINGS A,B,C

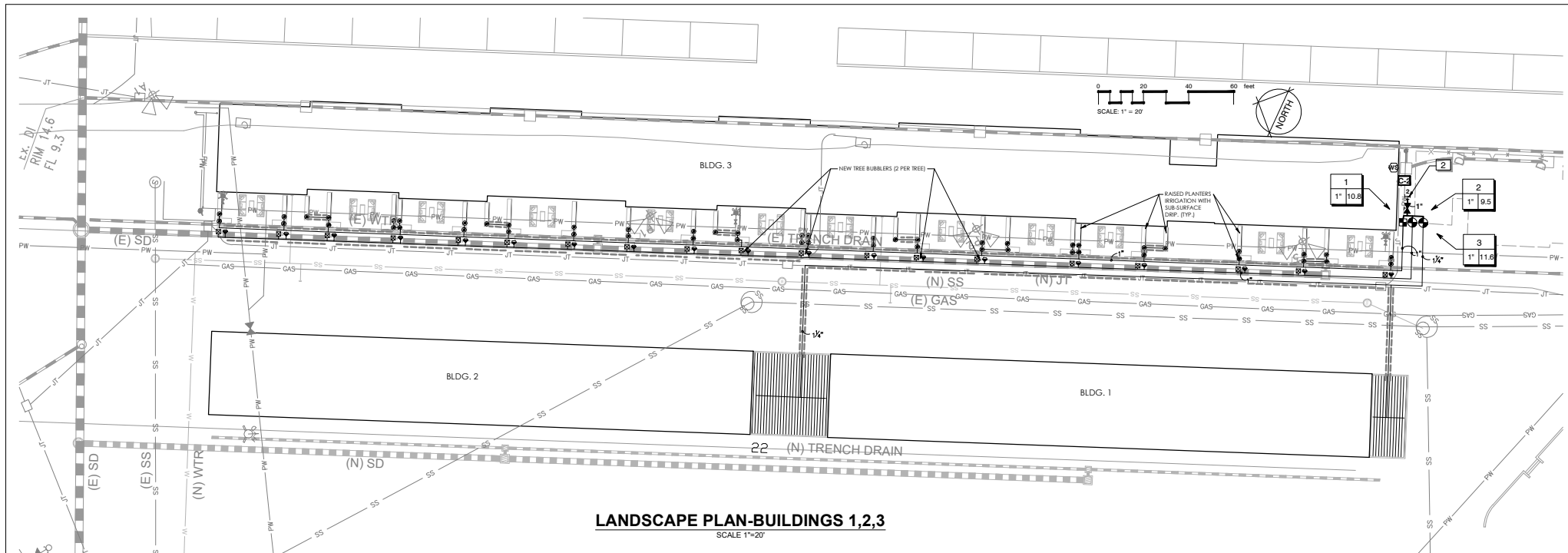
SONOMA RACEWAY

29355 Arnold Dr, Sonoma, CA 95476

L2.0

NO. DATE
9/29/22 PLANNING

SCALE:
SEE PLAN

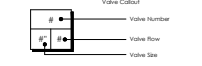


LANDSCAPE PLAN-BUILDINGS 1,2,3
SCALE 1"=20'

IRRIGATION SCHEDULE BUILDINGS 1,2,3

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PS
	Rain Bird RWS-B-C 1400 Series Root Watering System with 4.0" diameter x 3.6' long with locking grate, semi-rigid mesh tube, and check valve. Rain Bird bubbler option as indicated: 1401 0.25 GPM, 1402 0.5 GPM, 1404 1.0 GPM, 1408 2.0 GPM.	19	20
	Rain Bird RWS-M-B-C 1400 Series Mini Root Watering System with 4" diameter x 18" long with locking grate, semi-rigid mesh tube and Rain Bird 1401 0.25 GPM or 1402 0.5 GPM bubbler as indicated. With Check Valve.	19	20
	Rain Bird XCV-100-RCW Wide Flow Drop Control Kit for Commercial Applications, 1" Ball Valve with 1" PESB Valve 0.3-20 gpm and 1" Pressure Regulating 40psi Flow-Indicating Basket Filter 0.3-20 gpm.	1	
	Pipe Transition Point in Drip Box Pipe (Quick connect) transition point from PVC lateral to drip tubing in 6" (150mm) traffic rated valve box.	53	
	Area to Receive Dripline Netalim TLCV-06-12 Technique Pressure Compensating Landscape Dripline with Check Valve, 0.6 GPH emitters at 12" O.C. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern, 17mm.	1,121 LT.	
	Area to Receive Dripline Netalim TLCV-09-18 Technique Pressure Compensating Landscape Dripline with Check Valve, 0.9 GPH emitters at 18" O.C. Dripline laterals spaced at 18" apart, with emitters offset for triangular pattern, 17mm.	1,161 LT.	
	Rain Bird PESS 1" 1-1/2" 2" Plastic Industrial Valves, Low Flow Operating Capability, Globe Configuration, With Scrubber Technology for Reliable Performance in Dirty Water Irrigation Applications.	2	
	Nibco 1-113-K Class 125 bronze gate shut-off valve with cross handle, same size as mainline pipe diameter at valve location. Size Range - 1/4" - 3"	1	

	Hunter ZC-0800-PL 8 Station Outdoor Modular Controller. No Module Required. Commercial Use. Plastic Cabinet.	1
	Hunter WSS Wireless Solar, rain freeze sensor with outdoor interface, connects to Hunter PCC, Pro-C, and i-Care Controllers. Install as noted. Includes 10 year lithium battery and rubber module cover, and gutter mount bracket.	1
	Point of Connection 1 1/2"	1
	Irrigation Lateral Line: PVC Schedule 40 3/4" unless otherwise noted on plan. 12" minimum depth.	1,861 LT.
	Irrigation Mainline: PVC Schedule 40 1-1/4" unless otherwise noted on plan. 18" minimum depth	26.2 LT.
	Pipe Sleeve: PVC Schedule 40 2x the diameter of pipes served and 1" for control wires. Minimum depth of 24"	563.0 LT.



GENERAL IRRIGATION NOTES

1. Locate all irrigation equipment in landscape planters. Equipment shown in pavement and/or offsite is for clarity only. All valve boxes shall be located at least 2' from any pavement, structures, utilities, etc.
2. Irrigation sleeves as indicated on legend and plan shall be installed at all pavement/hardscape crossings.
3. Contact 811 (Before you dig) prior to commencing any construction.

REFERENCE NOTES SCHEDULE BUILDINGS 1,2,3

SYMBOL	DESCRIPTION
	Irrigation Point of Connection (POC): Locate existing irrigation mainline (from onsite well) and connect. Coordinate and verify exact location with client representative. Minimum requirements at POC shall be 12 GPM @ 59 PSI. If minimum requirements are not met contact Landscape Architect. If Pressure exceeds 80 PSI install a Wilkins Brass pressure reducer in a valve box and set pressure to 45 PSI. Install Gate valve @ POC location.

CRITICAL ANALYSIS-POC #1

Generated: 2022-09-30 11:18

P.O.C. NUMBER: 01
Water Source Information:

FLOW AVAILABLE
Point of Connection Size: 1 1/2"
Flow Available: 46.59 GPM

PRESSURE AVAILABLE
Static Pressure at POC: 60 PSI
Pressure Available: 60 PSI

DESIGN ANALYSIS
Maximum Station Flow: 10.5 GPM
Flow Available at POC: 46.59 GPM
Residual Flow Available: 36.59 GPM

Critical Station: 9A
Design Pressure: 15 PSI
Friction Loss: 1.94 PSI
Fittings Loss: 0.19 PSI
Elevation Loss: 0 PSI
Loss Through Valve: 17.15 PSI
Pressure Req. at Critical Station: 34.29 PSI
Loss for Fittings: 1.87 PSI
Loss for Main Line: 18.72 PSI
Loss for POC to Valve Elevation: 0 PSI
Loss for Backflow: 0 PSI
Critical Station Pressure at POC: 54.88 PSI
Pressure Available: 60 PSI
Residual Pressure Available: 5.12 PSI

CRITICAL ANALYSIS-POC #2

Generated: 2022-09-30 11:22

P.O.C. NUMBER: 01
Water Source Information:

FLOW AVAILABLE
Point of Connection Size: 1 1/2"
Flow Available: 46.59 GPM

PRESSURE AVAILABLE
Static Pressure at POC: 60 PSI
Pressure Available: 60 PSI

DESIGN ANALYSIS
Maximum Station Flow: 11.61 GPM
Flow Available at POC: 46.59 GPM
Residual Flow Available: 34.98 GPM

Critical Station: 1
Design Pressure: 15 PSI
Friction Loss: 17.09 PSI
Fittings Loss: 1.71 PSI
Elevation Loss: 0 PSI
Loss Through Valve: 24.34 PSI
Pressure Req. at Critical Station: 58.14 PSI
Loss for Fittings: 0.04 PSI
Loss for Main Line: 0.4 PSI
Loss for POC to Valve Elevation: 0 PSI
Loss for Backflow: 0 PSI
Critical Station Pressure at POC: 58.58 PSI
Pressure Available: 60 PSI
Residual Pressure Available: 1.42 PSI

OWNER:

SONOMA RACEWAY
29355 Arnold Dr, Sonoma, CA 95476

PROJECT ARCHITECT:

PERKINS EASTMAN
PROJECT ARCHITECT:
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(T) 212.353.7200
Civil / Site:
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45 LEVERON COURT,
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IRRIGATION PLAN BUILDINGS 1,2,3

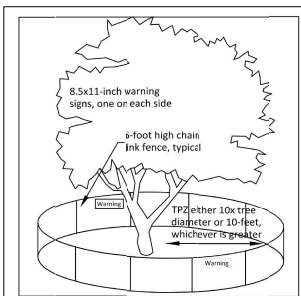
SONOMA RACEWAY
29355 Arnold Dr, Sonoma, CA 95476

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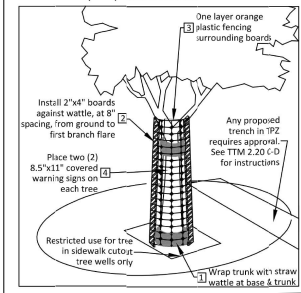
NO. DATE
9/29/22 PLANNING

SCALE:
SEE PLAN

OLIVE STREET LANDSCAPE ARCHITECTURE
P.O. Box 2083
Petaluma CA 94952
707-280-8990
olive@olivestreetlandscape.com
rod@olivestreetlandscape.com



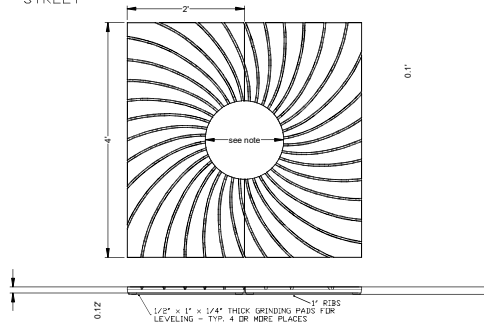
Type II Tree Protection: Layout configuration applies to all parkway strip or public trees near sidewalk.



1 TREE PROTECTION-TYPICAL
NTS
DETAIL-FILE

TREE GRATE
#M4890
STYLE: BOND
STREET

IRONSMITH
41-701 CORPORATE WAY, #3
PALM DESERT, CA 92260
(800) 338-4709
© COPYRIGHT



SLOT WIDTH IS 1/4" MAXIMUM, MEETS ADA COMPLIANCE.
GRATE CAST FROM GRAY IRON
TREE OPENING SIZE - 16"
STEEL ANGLE FRAME REQUIRED
FOR INSTALLATION USE MODEL M4800F
OUTER FRAME DIM. IS 3/4" ± 1/8" GREATER THAN GRATE.

2 TREE GRATE
NTS
DETAIL-FILE



3 IRONSMITH BOND TREE GRATE
NTS
DETAIL-FILE



4 TREE GUARD
NTS
DETAIL-FILE

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OWNER:



29355 Arnold Dr, Sonoma, CA 95476

PROJECT ARCHITECT:

PERKINS — EASTMAN

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(718) 212-3533, 7200

Civil / Site:
CSW | ST2
45 LEVERON COURT,
NOVATO, CA 94945

LANDSCAPE DETAILS

SONOMA RACEWAY
29355 Arnold Dr, Sonoma, CA 95476

L3.0

NO. DATE
9/29/22 PLANNING

SCALE:
SEE PLAN



OLIVE STREET
LANDSCAPE ARCHITECTURE

P.O. Box 2083
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olive@olivestreetlandscape.com
rod@olivestreetlandscape.com