



**DOWNTOWN  
DETROIT  
PARTNERSHIP**  
— EST. 1922 —

*Connecting People, Places, and Parks*

# Detroit People Mover Column Lighting Project

Detroit People Mover/Downtown Detroit Partnership/City of Detroit

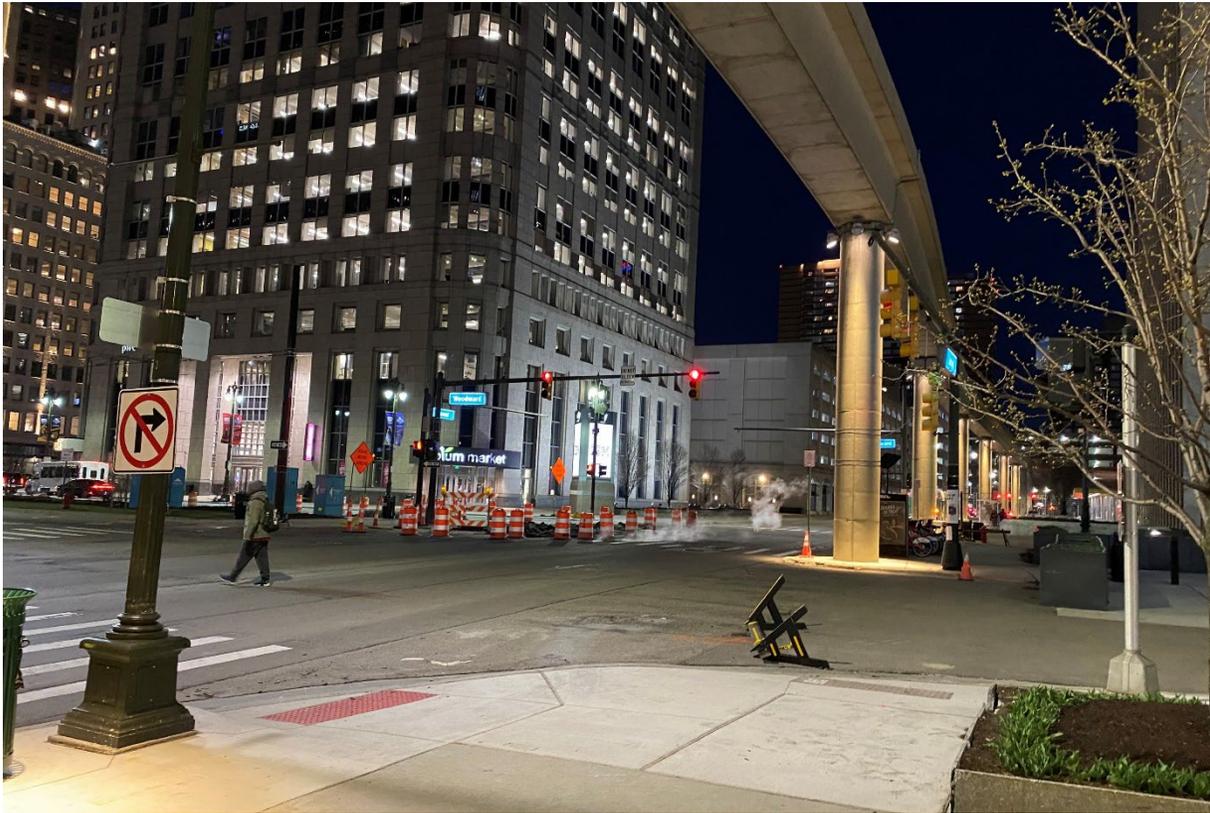
# Lighting



3000K – 100% Illumination



# Lighting



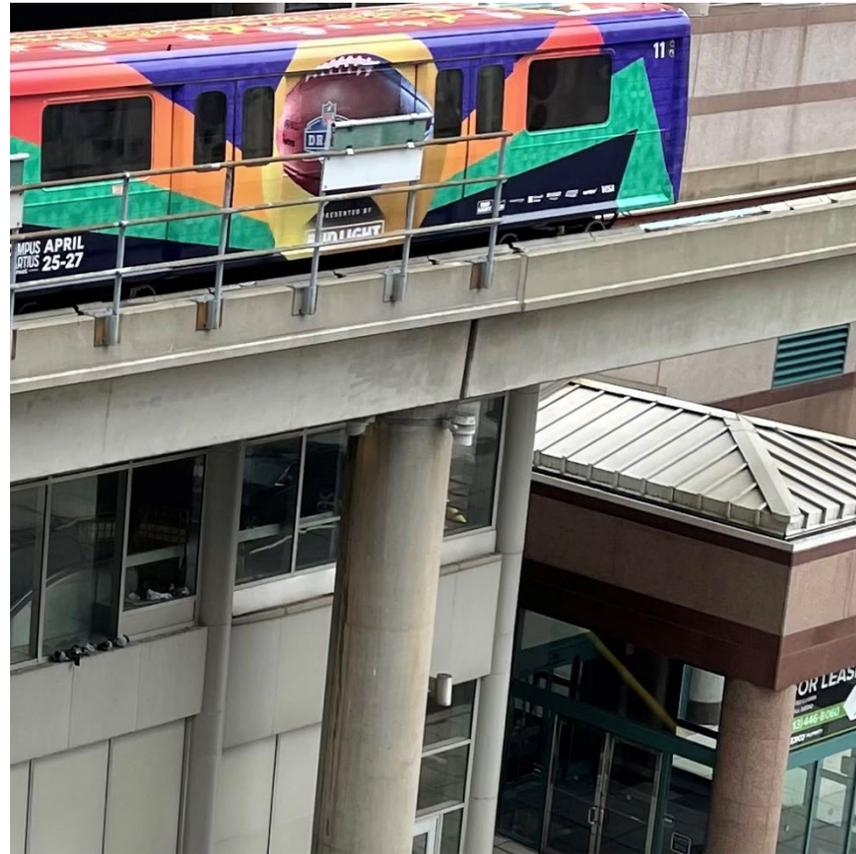
3000K – 100% Illumination



3000K – 50% Illumination



# Lighting Fixture



# Detroit People Mover Considerations

- DPM has numerous unique structural and security considerations
- Custom-designed bracket to support fixtures without drilling
- Electrical pulled from guideway (no conduit pulled from ground along column)
- Electrical supply in cable tray and non-invasive conduit
- Color and position of fixtures to blend into grey/concrete
- Position of lights to evenly illuminate column sides and sidewalk below



# Programming

- Detroit People Mover and the Downtown Detroit Partnership would oversee programming of the light system.
- Daily this would remain soft white, including after hours/overnight.
- Intentional colored programming throughout the team would coincide with special events, holidays, sport team milestones and similar occasions.



# Larned- Financial Station to City Hall (phase 1a)

- 10 Columns/40 Lighting Fixtures
- 4 Fixtures per column – equally spaced in line and perpendicular to track in a “+”
- 5 columns on each side of Woodward Ave
- Installed and Programmed under the Detroit People Mover track



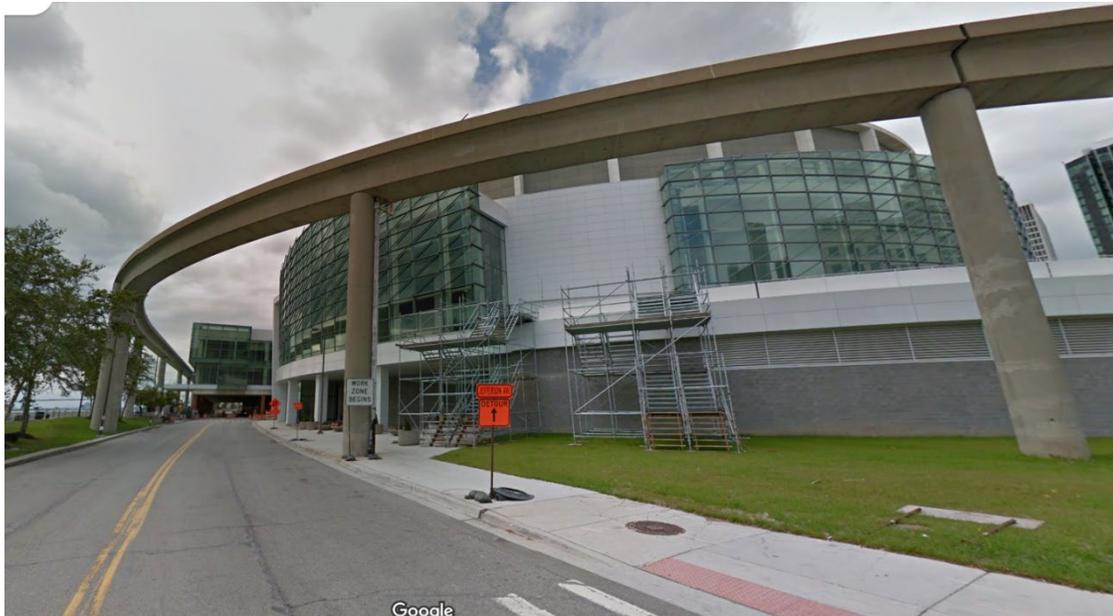
# Park/Witherell - Bagley to Broadway (phase 1b)

- 6 Columns/18 Lighting Fixtures
- 3 Fixtures per Column – slot closest to building facades left empty (2 in line and one perpendicular facing out from building)
- 3 columns on each side of Woodward Ave
- Installed and Programmed under the Detroit People Mover track



# Remaining People Mover System (future phases)

- Remaining system wide approximately 120 columns
- Installed and Programmed under the Detroit People Mover track



# Light Specifications

- Acclaim Dyna Drum fixtures
- 4 IP66 downlights per column
- 16 columns
- Soft white and full color programming and automation
- 3000K illumination
- Illumination levels programable by light and column individually
- Low power usage



# Light Specifications

DYNA DRUM SO COLOR™

**ACCLAIM**  
LIGHTING



**Spectrum**  
TECHNOLOGY  
**aria**  
WIRELESS DMX

Client:

Project:

Type:

Order Code:

Quantity:

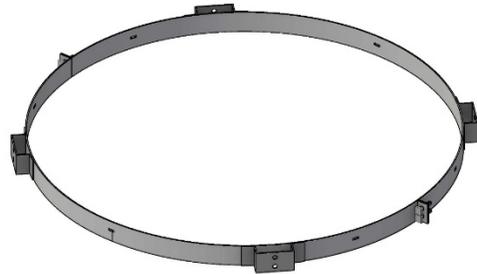
**Dyna Drum SO Color** is a high output, outdoor rated, quad-color LED floodlight. It features an internal 100-277VAC power supply, onboard DMX+RDM driver, and each unit carries Acclaim's Aria wireless DMX technology inside. It comes with a narrow 10° beam standard, with optional quick-change spread lenses for wider applications. It is ideal for facade lighting applications and as an area floodlight.

## SPECIFICATIONS

Colors	<b>QW6:</b> RGBW (W=6000K), <b>QW4:</b> RGBW (W=4000K), <b>Q3:</b> RGBW (W=3000K)
Beam Angles	10° standard, 20°, 40°, 60°, 10° x 60° spread lens options
Photometrics	See page 4, up to 4124 lumens, 117,630 center candela
Effective Projected Area	1.16 ft <sup>2</sup>
Control	DMX+RDM, manual color setting in menu, photocell included, Aria wireless direct connect
Max Fixtures in Series	32 via DMX, power local to each fixture
Power Consumption	150W maximum
Operating Voltage	100-277VAC, 50/60 Hz
Lumen Maintenance	L70 @ 150,000 hours (25° C)
Mounting	Surface mount bracket included, optional tenon mount and pipe clamp available
Finish	Gray standard (RAL 7047), black, white, and custom colors optional
Material	Die cast aluminum, glass top lens, optional marine coating available
Ambient Operating Temperature	-40° F to 125° F (-40° C to 51° C)
IP Rating	IP66, wet location
IK Rating	IK07, protection against 2 joule impact
Fixture Connectors	Attached 5' (1.5m) IP66 hybrid cable, AC power +DMX/RDM
Warranty	5 Years, limited
Weight	30.6 lbs. (13.8 kg)
Dimensions	<b>L:</b> 14.17" x <b>W:</b> 13.3" x <b>D:</b> 8.38" (360mm x 338mm x 213mm)
Certifications	   LUMINAIRE VIBRATION

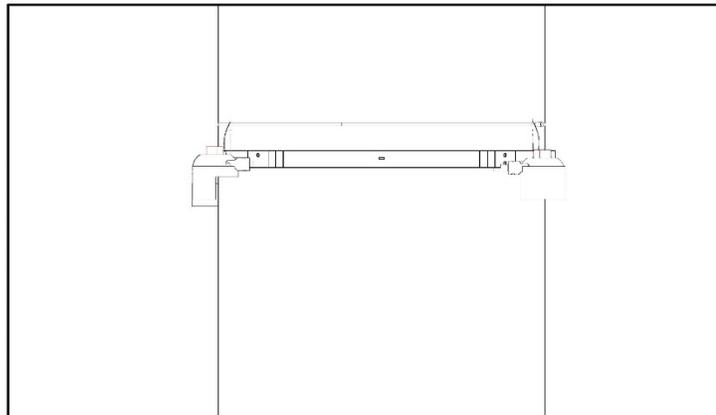


# Bracket Design



**4' DIAMETER COLUMN LIGHTING RING MOUNT - FULL ISOMETRIC VIEW**

SCALE: NTS



**COLUMN MOUNTING BRACKET SHOWN W/ SAFETY CABLE AND RING - DETAIL VIEW**

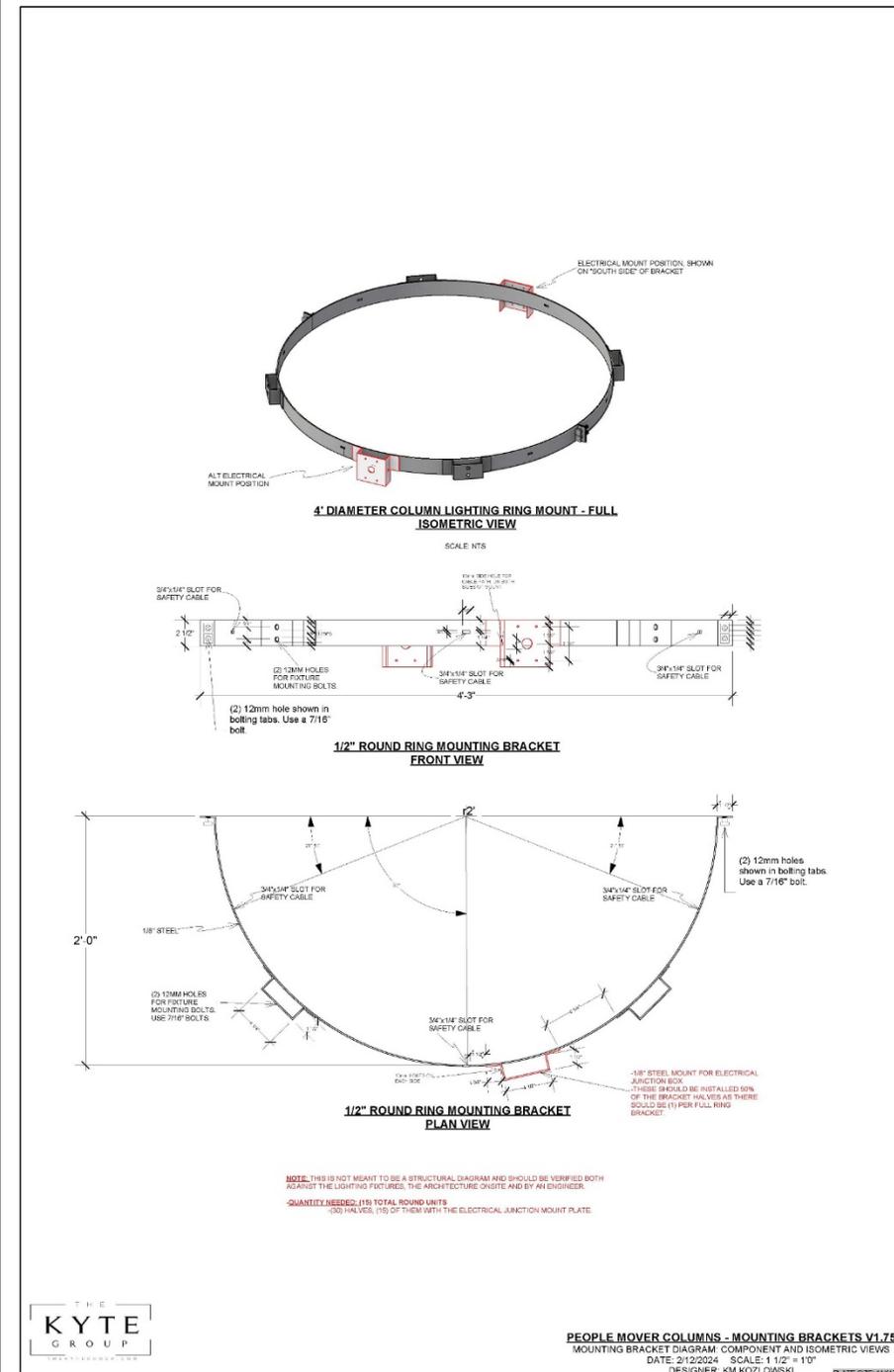


**COLUMN MOUNTING BRACKET SHOWN W/ SAFETY CABLE AND RING - ISO FULL VIEW**

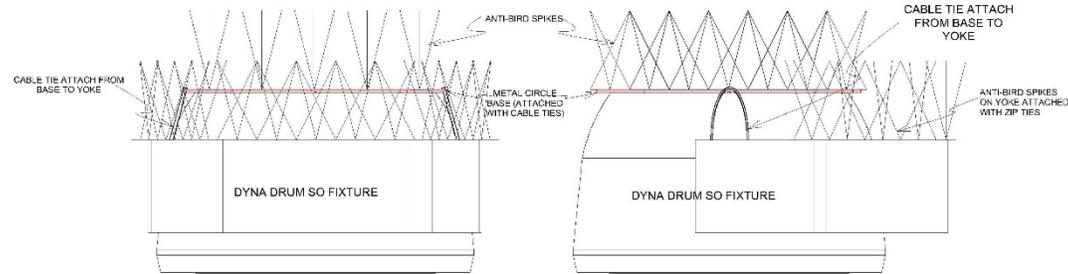


# Bracket Design

- Fixtures are designed and mounted on a custom fabricated bracket based on the specific requirements related to the People Mover columns. This allows appropriate light levels and distribution without compromising the structure.

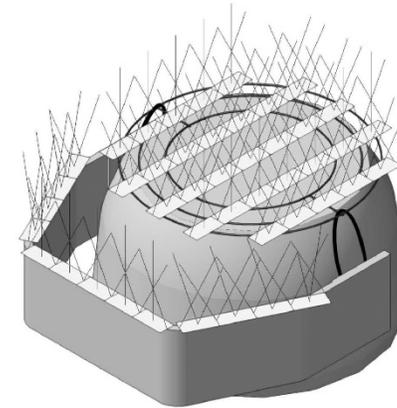


# Bird Deterrent

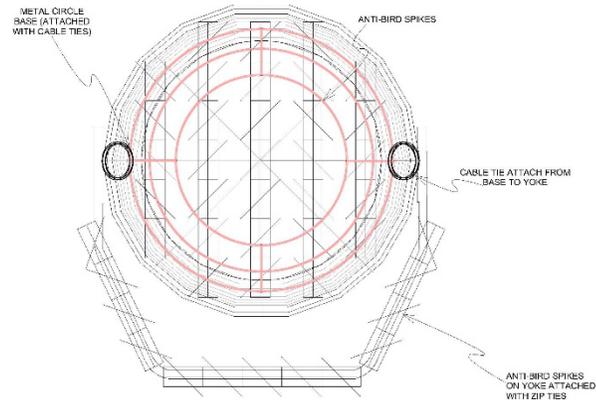


**ANTI-BIRD DEVICE  
ATTACHMENT - FRONT VIEW**

**ANTI-BIRD DEVICE  
ATTACHMENT - SIDE VIEW**



**ANTI-BIRD DEVICE  
ATTACHMENT - ISO VIEW**

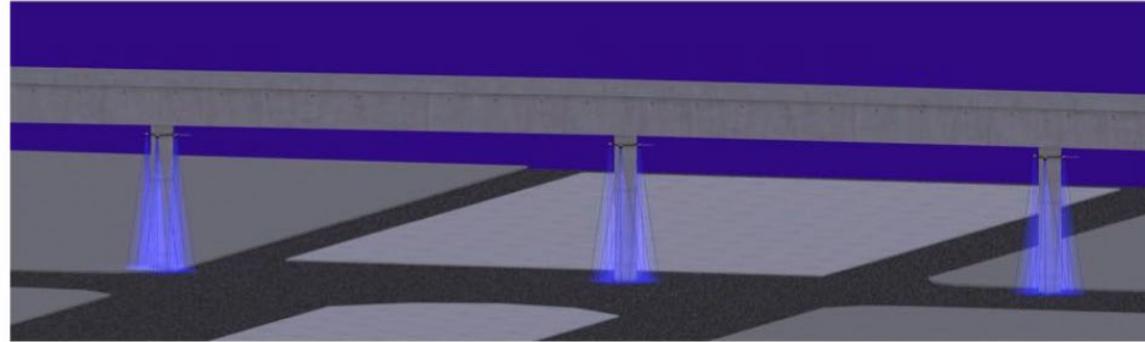


**ANTI-BIRD DEVICE  
ATTACHMENT - PLAN VIEW**

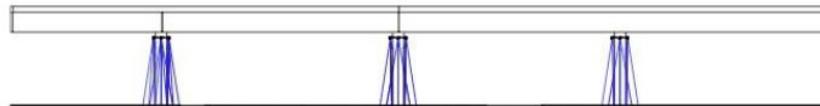
Project: <b>DDP- People Mover Track Lighting (NFL Draft)</b>			
Subject: Pigeonator 5000 Elevation v1.2			
	Scale: 3/8"=1'-0"	Date: 2/20/2024	
	Format: VDWX	Rev. Date:	
	Units: Inches	Drawn by: JM Kozlowski	
Drawing No. / File Name:	Sheet:	Phase:	
	Sht-1	0	



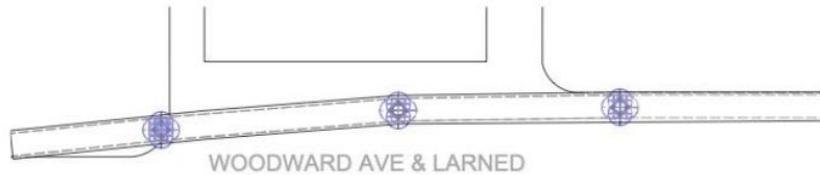
# Lighting Photometric Study



PEOPLE MOVER TRACK - COLUMN LIGHTING - ISOMETRIC VIEW  
SHOWING 4X-20DEG FIXTURES PER COLUMN  
SCALE: NTS



PEOPLE MOVER TRACK - COLUMN LIGHTING - FRONT VIEW  
SHOWING 4X-20DEG FIXTURES PER COLUMN  
SCALE: 1/32"=1'0"



WOODWARD AVE & LARNED

PEOPLE MOVER TRACK - COLUMN LIGHTING - PLAN VIEW  
SHOWING 4X-20DEG FIXTURES PER COLUMN  
SCALE: 1/32"=1'0"

PEOPLE MOVER COLUMNS - DOWN LIGHTS 20 DEG FIXTURES  
RENDER SHOWING: 4X 20DEG FIXTURES W/ 1/2 SNOOT PER COLUMN  
DATE: 8/24/2023 SCALE: AS NOTED  
DESIGNER: KM KOZLOWSKI





# DOWNTOWN DETROIT PARTNERSHIP

— EST. 1922 —

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