

Northern Arizona University Master Site Lighting Plan



LIGHTING MASTER PLAN

Goals and Objectives

- Provide safe night environment
- Bring exterior lighting system into compliance with current Flagstaff Outdoor Lighting Code
- Unify and improve campus identity & aesthetic
- Eliminate overhead wiring
- Standardize system components to simplify & economize maintenance
- Establish common power sources and controls grid site lighting





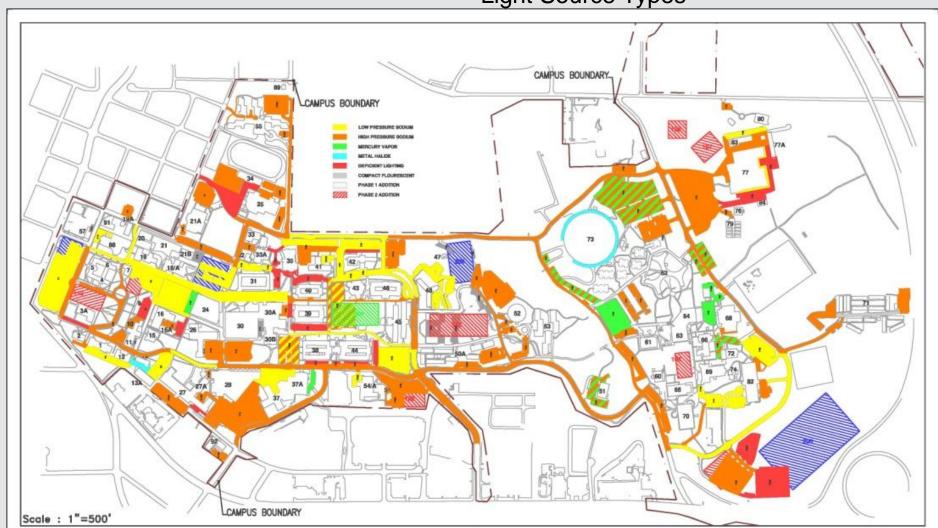
LIGHTING MASTER PLAN

Campus Impact

- Phasing & priorities for relighting projects should be coordinated with Campus Master Plan.
- Relighting should be coordinated with any paving projects planned for parking lots, pedways, or roadways.
- New building projects should correct deficiencies & power any parking lots, pedways, or roadway lighting systems adjoining or serving their site.
- New building construction projects should follow any new NAU Technical Standards even if design is under way.

LIGHTING MASTER PLAN

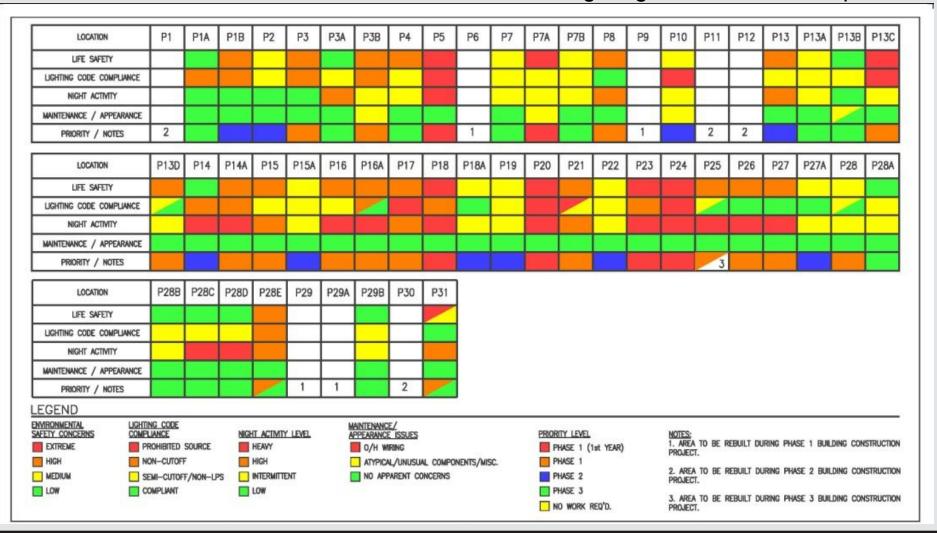
Light Source Types





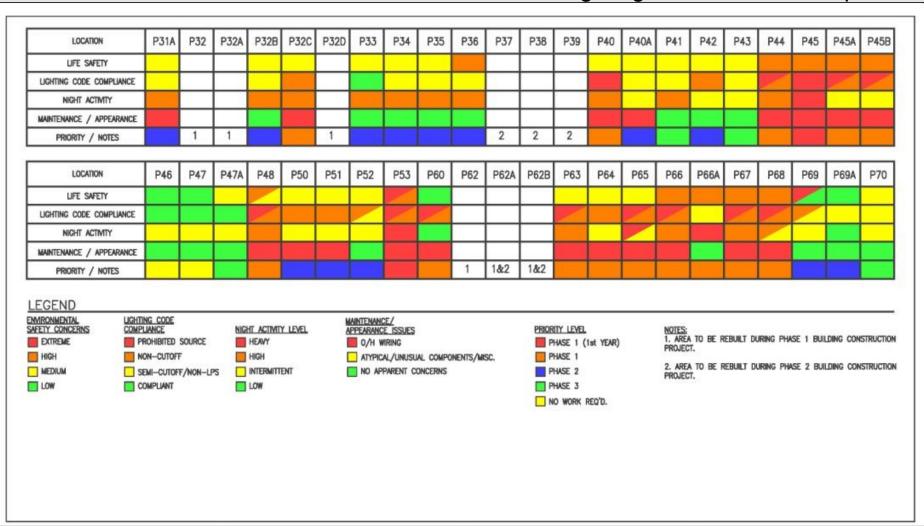
LIGHTING MASTER PLAN

Exterior Lighting Matrix North Campus



LIGHTING MASTER PLAN

Exterior Lighting Matrix South Campus





LIGHTING MASTER PLAN

Strategies & Phasing (Year One)

- Relight areas that are an extreme level of concern as prioritized in Matrix & Phasing Plan.
- Replace mercury vapor and noncutoff fixtures with code compliant full cutoff fixtures.
- Develop a palette of materials that will become part of NAU's Technical Standards.
- Charge new building construction projects to establish common power sources and controls for nearby site lighting.



LIGHTING MASTER PLAN

Strategies & Phasing (Phase I)

- Relight areas that are a high level of concern as prioritized in Matrix & Phasing Plan.
- Replace any remaining mercury vapor and
- Replace non-cutoff fixtures with code compliant full cutoff fixtures.
- Install white-light luminaires at relit roadway crosswalks.
- Replace overhead wiring with underground.



LIGHTING MASTER PLAN

Strategies & Phasing (Phase II)

- Relight areas that are a medium level of concern as prioritized in Matrix & Phasing Plan.
- Replace Semi-cutoff / non-LPS fixtures with code compliant full cutoff fixtures.
- Install white-light luminaires at relit roadway crosswalks.
- Replace any remaining overhead wiring with underground.



LIGHTING MASTER PLAN

Strategies & Phasing (Phase III)

- Relight areas that are a medium level of concern as prioritized in Matrix & Phasing Plan.
- Relight areas that are a low level of concern as prioritized in Matrix & Phasing Plan.
- Replace any remaining non-LPS fixtures with code compliant full cutoff fixtures.
- Install white-light luminaires at any remaining roadway crosswalks.
- Replace any light fixtures that do not comply with NAU's Technical Standard - Palette of Materials developed in Phase 1







LIGHTING MASTER PLAN Luminaires

Kim Theory of Relativity

The Relationship of Outdoor Lighting to Site and Architecture















RA25 Large Eras

RA17 Small Eras

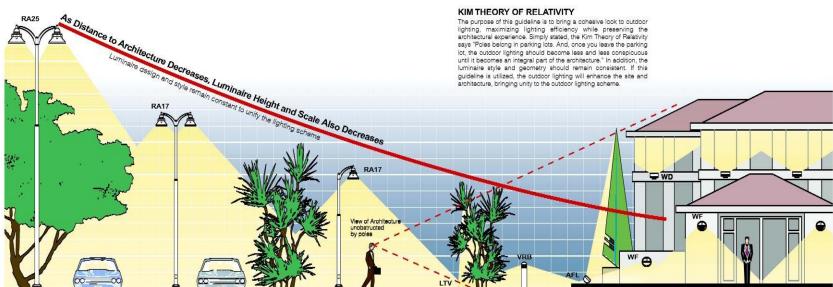
VRB Vandal Resistant Bollard LTV Lightvault^a

AFL Architectural Floodlight WF Wall Forms®

WF Wall Forms*

WD Wall Directors





SITE / ROADWAY ZONE

Parking lots and roadways require luminaires on 20' - 40' poles to efficiently light these large areas. Therefore, this lighting becomes dominant, and sets the design and style for all other lighting as you progress towards the building.

As you leave the parking lot and transition to pedestrian areas, poles should decrease in height to 10' - 16'. In addition, luminaires should decrease in scale, and can have more decorative features to be appreciated at the pedestrian level.

LANDSCAPE / PATH ZONE

Near the building, luminaires should begin to disappear, blending into the landscape and hardscape elements.

BUILDING / PERIMETER ZONE

No pole mounted luminaires should ever be used near the building, as they will dominate the architecture. The only exception would be the use of decorative luminaires to delineate entrances to the structure. Building mounted, architecturally compatible fixtures should be almost invisible

KIM LIGHTING

KIM LIGHTING 3



LIGHTING MASTER PLAN Luminaires







Northern Arizona University LIGHTING MASTER PLAN Luminaires

