

I-3

CALCULATION SUMMARY

| LOCATION | DEFINITION PER IESNA |
|-------------------------------|-------------------------------|
| LOCAL ROAD - MAIN ENTRANCE | LOW ACTIVITY LEVEL |
| LOCAL ROAD - RESIDENTIAL | LOW ACTIVITY LEVEL |
| OPEN PARKING | LOW ACTIVITY LEVEL |
| WALKWAY ADJACENT TO DRIVEWAY | LOW ACTIVITY LEVEL |
| WALKWAY DISTANT FROM DRIVEWAY | LOW ACTIVITY LEVEL |
| BUILDING ENTRANCE - ACTIVE | PEDESTRIAN AND/OR CONVEYANCE |
| BUILDING ENTRANCE - INACTIVE | INFREQUENTLY USED |
| RECREATIONAL AREAS - ① | EXCLUSIVELY SOCIAL RECREATION |

STD. VALUE DESIGN

| UNIFORMITY RATIO | AVG (FC) | MIN (FC) | AVG (FC) | MAX (FC) | MIN (FC) |
|------------------|----------|----------|----------|----------|----------|
| 6 : 1 | 0.5 | 0.3 | 1.69 | 3.83 | 0.27 |
| 6 : 1 | 0.3 | 0.2 | 0.60 | 6.78 | 0.10 |
| 4 : 1 | 0.5 | 0.2 | 0.64 | 3.64 | 0.16 |
| 4 : 1 | 0.5 | 0.2 | 0.66 | 4.00 | 0.16 |
| 4 : 1 | 0.5 | 0.2 | 1.88 | 4.63 | 0.45 |
| N/A | 5 | N/A | 5.49 | N/A | N/A |
| N/A | 1 | N/A | 2.62 | N/A | N/A |
| 4 : 0 | 20 | N/A | 21.8 | 43 | 5.24 |

CALCULATED VALUES

| UNIFORMITY RATIO (AVG-TO-MIN) | UNIFORMITY RATIO (MAX-TO-MIN) |
|-------------------------------|-------------------------------|
| 6 : 1 | N/A |
| 6 : 1 | N/A |
| 4 : 1 | N/A |
| 4 : 1 | N/A |
| 4 : 1 | N/A |
| N/A | N/A |
| N/A | N/A |
| N/A | 4 : 1 |

GENERAL NOTES

- LIGHTING CALCULATIONS WERE PERFORMED USING DIALUX 4.9 (INTERNATIONAL DESIGN SOFTWARE FOR LIGHTING CALCULATION)
- THE OUTDOOR LIGHTING DESIGN SHOWN IN THIS DRAWING IS BASED ON THE FOLLOWING NIGHTTIME OUTDOOR LIGHTING ZONE DEFINITION:

LZ1 - LOW AMBIENT LIGHTING
"AREAS WHERE LIGHTING MIGHT ADVERSELY AFFECT FLORA AND FAUNA OR DISTURB THE CHARACTER OF THE AREA. THE VISION OF HUMAN RESIDENTS AND USERS IS ADAPTED TO LOW LIGHT LEVELS. LIGHTING MAY BE USED FOR SAFETY AND COMFORT. IT IS NOT NECESSARILY UNIFORM OR CONTINUOUS. AFTER CURFEW, MOST LIGHTING SHOULD BE EXTINGUISHED OR REDUCED AS ACTIVITY LEVELS DECLINE" (IE 10th EDITION).
- LIGHTING FOR ENTRANCE MONUMENT SIGN TO CONFORM TO TOWN OF WARWICK DESIGN STANDARDS AND CODE REGULATIONS 164-43.1 AND 164-43.4.

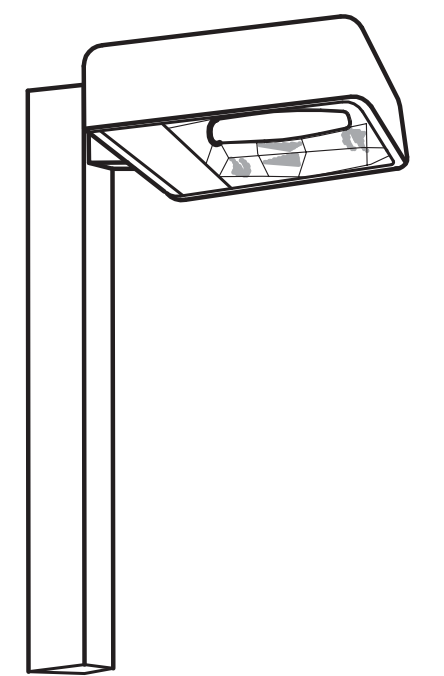
SHEET KEYNOTES

- FOR SOCIAL EVENTS ONLY, NO SPECTATOR CAPACITY.
- WALL MOUNT FIXTURE INSTALLED AT 3' AFF (ABOVE FINISHED FLOOR) ON ROOF PARKING LEVEL OF VISITOR PARKING. THESE LUMINAIRES PROVIDES COMPLEMENTARY ILLUMINATION TO KEEP AN AVERAGE OF 1 FC ON THIS AREA.

LUMINAIRE SCHEDULE

| SYMBOL | LABEL | DESCRIPTION | QTY | ARRANGEMENT | NOTES |
|--------|-------|-------------|-----|--------------|------------------------|
| ⊕ | YY1 | 100W - HPS | 11 | SINGLE (12') | FULL CUTOFF |
| ⊕ | YY2 | 150W - HPS | 41 | SINGLE (16') | FULL CUTOFF |
| ⊕ | YY3 | 1000W - MH | 14 | DOUBLE (16') | CUTOFF FLOODLIGHT |
| ⊕ | WL | 70W - MH | 71 | BOLLARD (3') | SHIELDED ROUND BOLLARD |
| ⊕ | U2 | 70W - HPS | 31 | WALL MOUNT | PERIMETER CUTOFF |
| ⊕ | Z | 100W - MH | 4 | RECESSED | -- |

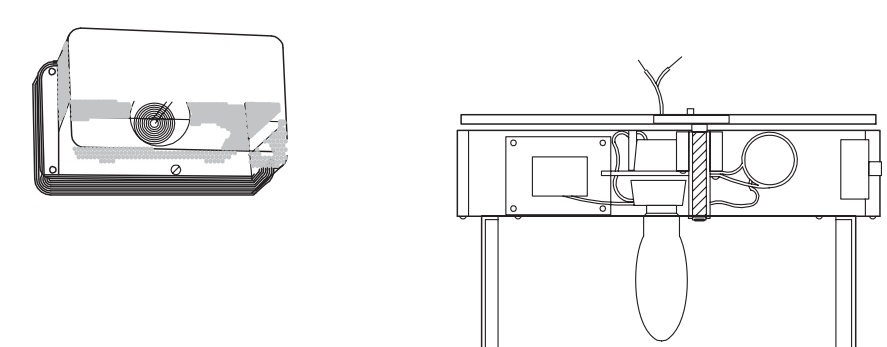
POLE: 12' & 16' SQUARE STEEL MOUNTING BRACKET: 6" EXTENDED POLE MOUNT WIDE THROW REFLECTOR



FIXTURE YY1, YY2, (SINGLE)
100 WATTS HIGH PRESSURE SODIUM (YY1)
150 WATTS HIGH PRESSURE SODIUM (YY2)

CLEAR, TEMPERED GLASS LENS IS HELD IN A DIE CAST, RECESSED DOOR FRAME. COMPLETE SILICONE GASKETING AROUND LENS FRAME & AT MTC. MEETS U.L. STANDARD FOR WET LOCATIONS. STANDARD 480 VOLT BALLAST.

LAMPS - 100 or 150 WATTS HPS HOUSING IS SEAMLESS DIE CAST ALUMINUM, MEDIUM BRONZE, ACRYLIC POWDER FINISH. FULL CUTOFF, WIDE THROW DISTRIBUTION. POLE MOUNTS ARE COMPLETELY GASKETED AT FIXTURE. PROVIDE ENCLOSED WIRING CHAMBER.

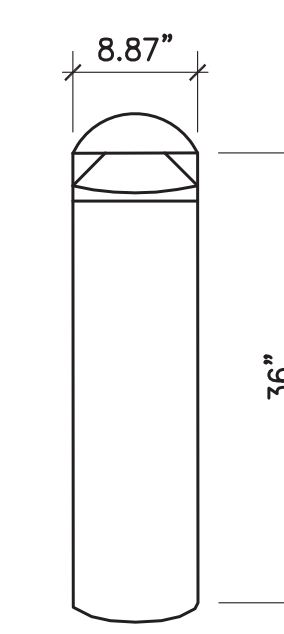


FIXTURE U2
70 WATTS HIGH PRESSURE SODIUM

FORWARD THROW - SECURITY LIGHT WALL DOWNLIGHT PERIMETER CUTOFF

WALL PERIMETER CUTOFF OPTICS: WALL MOUNTED, FIXTURE DESIGNED FOR FORWARD THROW LIGHT DISTRIBUTION, EXTERIOR USE.

REFLECTOR AND POLYCARBONATE LENS. U.L. LISTED.



FIXTURE WL ROUND BOLLARD
70 WATTS PULSE START METAL HALIDE

180° SHIELDED

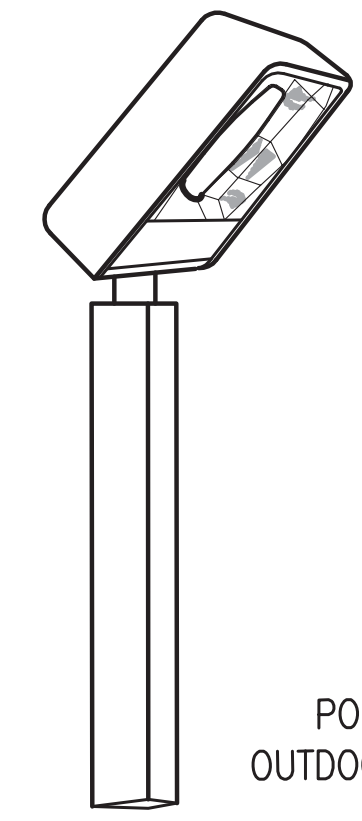
EXTRUDED ALUMINUM HOUSING WITH STEEL FRAME SUPPORTS.

FINISH: ACRYLIC THERMOSET BRONZE POWDER FINISH. U.L. LISTED FOR WET LOCATION.

INJECTION MOLDED CLEAR POLYCARBONATE LENS, 180° SHIELDED CLEAR LENS.

STANDARD 120/277 VOLT BALLAST.

POLE: 16' SQUARE STEEL MOUNTING BRACKET: 2" ADJUSTABLE FITTER FORWARD THROW FLOODLIGHT



FIXTURE YY3 (DOUBLE)
1000 WATTS METAL HALIDE

CLEAR, TEMPERED GLASS LENS IS HELD IN A DIE CAST, RECESSED DOOR FRAME. COMPLETE SILICONE GASKETING AROUND LENS FRAME & AT MTC. MEETS U.L. STANDARD FOR WET LOCATIONS. STANDARD 480 VOLT BALLAST.

LAMPS - 1000 WATTS HOUSING IS SEAMLESS DIE CAST ALUMINUM, MEDIUM BRONZE, ACRYLIC POWDER FINISH. COMPLETELY GASKETED AT FIXTURE, PROVIDE ENCLOSED WIRING CHAMBER.

FIXTURE Z
70 WATTS PULSE START METAL HALIDE
RECESSED CANOPY LIGHT

HOUSING IS DIE CAST ALUMINUM, WHITE STANDARD POWDER FINISH.

ALL FIXTURES ARE SANDRAG WITH 277 VOLT HIGH POWER FACTOR BALLAST.

U.L. LISTED.

MOUNTING: FOUR STEEL "L" BRACKETS ARE PROVIDED TO ATTACH THE HOUSING TO CEILING MATERIAL.
TEMPERED GLASS LENS.

① PROPOSED SITE LIGHTING



WATCHTOWER
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FAX: (718) 560-8831
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NOT FOR CONSTRUCTION

| MARK | DATE | DESCRIPTION |
|------|------|-------------|
| | | |

OWNER:
WATCHTOWER BIBLE & TRACT SOC. OF NY, INC.
25 COLUMBIA HEIGHTS
BROOKLYN, NY 11201

ACCOUNT NO:
PROJECT TITLE:
WORLD HEADQUARTERS OF JEHOVAH'S WITNESSES
LONG MEADOW ROAD, WARWICK ORANGE COUNTY, NEW YORK

SHEET TITLE:
SITE LIGHTING PLAN

PROJECT NO:
HWRK001

SHEET NO:
ES101