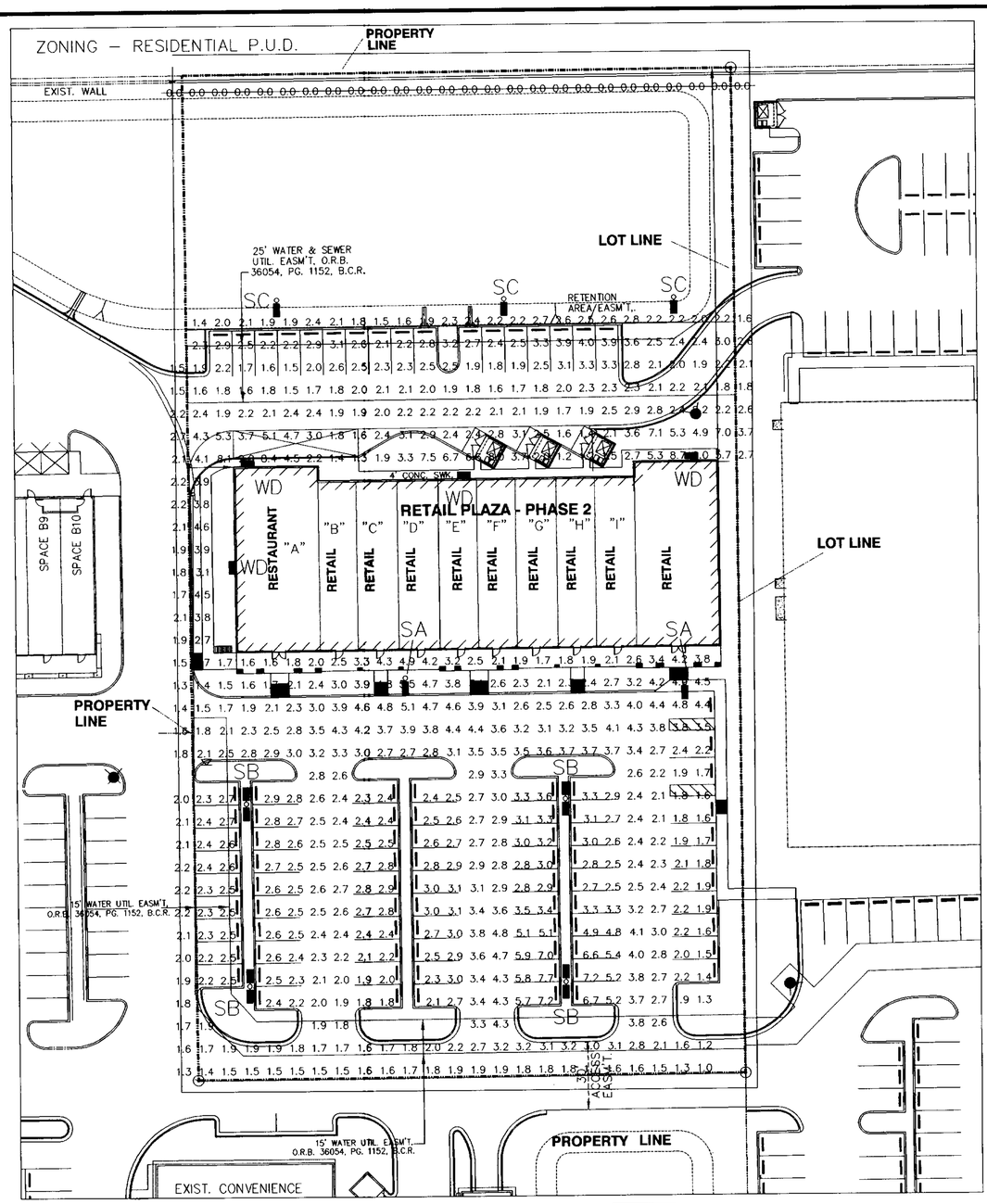


1 / PH-1 PHOTOMETRIC PLAN

SCALE: 1" = 30'-0"

SA — KIM LIGHTING AR3/400MHxxx/xx
lamp(s): 400 W MH ED-28 CLEAR MOG. BASE
candela file 'Alh3f40m.ies'
1 lamp(s) per luminaire, 40000 initial lumens per lamp
Light Loss Factor = 0.700, watts per luminaire = 400
Outreach (from mounting axis to photometric center)= 18 in
mounting height= 30 ft
number locations= 2, number luminaires= 2
kw all locations= 0.8

SB — KIM LIGHTING AR3/400MHxxx/xx
lamp(s): 400 W MH ED-28 CLEAR MOG. BASE
2 luminaires per location, candela file 'Alh3f40m.ies'
1 lamp(s) per luminaire, 40000 initial lumens per lamp
Light Loss Factor = 0.700, watts per luminaire = 400
Outreach (from mounting axis to photometric center)= 18 in
mounting height= 30 ft
number locations= 4, number luminaires= 8
kw all locations= 3.2

SC — KIM LIGHTING AR3/400MHxxx/xx/HS
lamp(s): 400 W MH ED-28 CLEAR MOG. BASE
candela file 'Alh3fh40m.ies'
1 lamp(s) per luminaire, 40000 initial lumens per lamp
Light Loss Factor = 0.700, watts per luminaire = 400
Outreach (from mounting axis to photometric center)= 18 in
mounting height= 30 ft
number locations= 3, number luminaires= 3
kw all locations= 1.2

WD — KIM LIGHTING WD18x3/250MHxxx/xx
lamp(s): 250 W MH ED-28 CLEAR MOG. BASE
candela file 'Wlh3f25m.ies'
1 lamp(s) per luminaire, 23000 initial lumens per lamp
Light Loss Factor = 0.700, watts per luminaire = 250
Outreach (from mounting axis to photometric center)= 6 in
mounting height= 15 ft
number locations= 4, number luminaires= 4
kw all locations= 1.0

Target Point Set
588 points at z=0, spacing 10ft by 10ft
HORIZONTAL FOOTCANDLES

Average	2.8
Maximum	9.0
Minimum	1.0
Avg:Min	2.78
Max:Min	9.00
Coef Var	0.44
UnifGrad	3.18

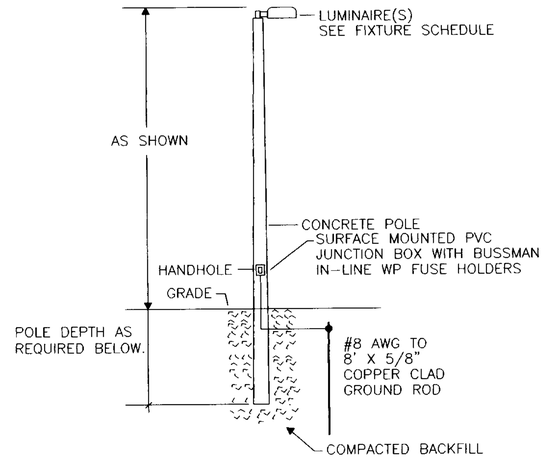
SPILL LIGHTING
26 points
HORIZONTAL FOOTCANDLES

Average	0.0
Maximum	0.0
Minimum	0.0
Avg:Min	9999.00
Max:Min	9999.00
Coef Var	0.00

MUNICIPALITY'S REQUIREMENTS

CONTRACTOR SHALL OBTAIN LATEST COPY OF REQUIREMENTS FROM THE MUNICIPALITY

MINIMUM FC	1 FC
MAX:MIN RATIO	12:1



NOTE: PROVIDE SHOP DRAWINGS SIGNED AND SEALED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER. SHOP DRAWINGS SHALL INCLUDE THE POLE, LUMINAIRE, AND SOIL CONDITIONS TO SHOW COMPLIANCE WITH THE FLORIDA BUILDING CODE, BROWARD COUNTY, FOR WIND LOADING. SHOP DRAWINGS SHALL BE FOR WORST CASE SOIL CONDITIONS. ALL ASSOCIATED COSTS FOR THE TOTAL INSTALLATION INCLUDING SHOP DRAWINGS, SOIL TESTING AND DESIGN FEES SHALL BE INCLUDED IN THE CONTRACT. SHOP DRAWINGS SHALL VERIFY THAT THE POLE /LIGHT ASSEMBLY INSTALLATION WILL MEET DESIGN WIND PRESSURES DERIVED FROM ASCE 7-98 PER FBC SECTION 1606.1.7 FOR THE FOLLOWING CRITERIEA; BASIC WIND SPEED = 140 MPH (3 SECOND GUST), WIND IMPORTANCE FACTOR = 1.0, EXPOSURE = C

POLE MOUNTING DETAIL

N.T.S.

NOTES:
THE SITE PHOTOMETRIC DRAWING WAS DESIGNED UTILIZING THE SPECIFIED LUMINAIRE MANUFACTURER. ANY DEVIATION FROM THE DESIGN DRAWINGS SHALL REQUIRE PLAN REVISIONS, RE-SUBMITTAL OF THE PLAN REVISIONS TO THE PERMITTING AGENCIES FOR APPROVAL, AND POSSIBLE TIME DELAYS. THE CONTRACTOR SHALL INCLUDE ALL COSTS ASSOCIATED WITH ANY DEVIATIONS FROM THE DESIGN DRAWINGS IN THE INITIAL PRICING. PROVIDE SHOP DRAWINGS SHOWING COMPUTER PHOTOMETRICS IN COMPLIANCE WITH THE ABOVE CRITERIA.

THE SPECIFIED LUMINAIRE MANUFACTURER'S REPRESENTATIVE SHALL BE RESPONSIBLE TO COORDINATE THE INSTALLATION AND TO INSURE THAT THE SITE LIGHTING IS IN COMPLIANCE WITH THIS PLAN. PROVIDE ADDITIONAL HOUSE SIDE SHIELDS, LIGHTS, POLES, ADJUSTMENTS, ETC. AS REQUIRED TO MEET THESE REQUIREMENTS. THE CONTRACTOR AND MANUFACTURER'S REPRESENTATIVE SHALL MAKE ALL FINAL ADJUSTMENTS AFTER SUNDOWN AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.

PROVIDE A SIGNED LETTER, FROM THE MANUFACTURER'S REPRESENTATIVE, TO THE ENGINEER, AFTER THE INSTALLATION IS COMPLETE AND INSPECTED. THIS LETTER SHALL STATE THAT THE SITE LIGHTING IS IN COMPLIANCE WITH THE DESIGN DRAWING REQUIREMENTS, AND MEETS ALL LOCAL MUNICIPALLY REQUIREMENTS INCLUDING, BUT NOT LIMITED TO, MIN LIGHTING LEVELS, SPILLAGE LEVELS, LUMINAIRE TYPES ETC.

THE PHOTOMETRIC DRAWINGS ARE FOR LUMINAIRES AND POLE TYPE SELECTION AND PLACEMENT ONLY. WIRING ETC. OF THE LUMINAIRES SHALL BE COMPLETED UNDER SEPARATE DRAWINGS, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION AND COMPLETION OF THE SITE LIGHTING WITH THE FULL SET OF PROJECT DOCUMENTS.

RC ENGINEERING, INC.
12327 NW 35 STREET
CORAL SPRINGS, FLORIDA
33065
(954) 757-7900
FAX 757-7901

REVISIONS
⚠ 9/23/04 DLR
UPDATED SITE

DRAWN MJC
CHECKED DLR
DATE 08/20/04
SCALE AS NOTED
JOB NO 04099

PROJECT
PHOTOMETRIC PLAN FOR:
WINSTON PARK
LYONS AND SAWGRASS EXPRESSWAY
COCONUT CREEK, FLORIDA
BROWARD COUNTY

TITLE
PHOTOMETRIC PLAN

SEAL
DATE
DAVID L. RICE, P.E.
ELECTRICAL ENGINEER
STATE OF FLORIDA
PE 34343

SHEET
PH-1
OF SHEETS