

# RESIDENCE AT REED PARK

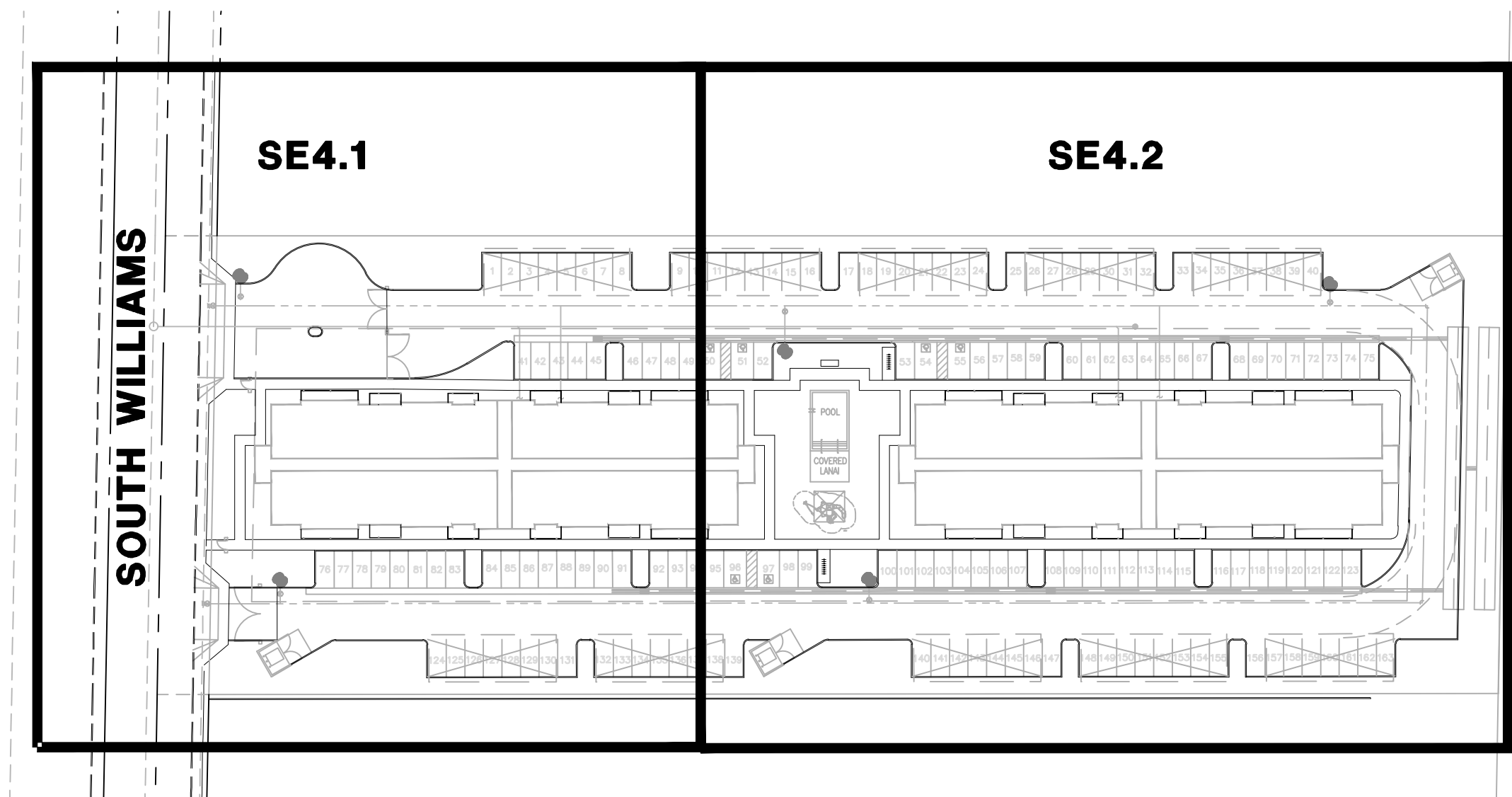
## PHOTOMETRIC STUDY

### MESA, ARIZONA

#### GENERAL ELECTRICAL NOTES

- ELECTRICAL WORK SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE (LATEST EDITION), FEDERAL, STATE AND LOCAL JURISDICTION CODES.
- ALL WORK SHALL BE DONE IN A NEAT, WORKMANLIKE, FINISHED AND SAFE MANNER, ACCORDING TO THE LATEST PUBLISHED NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION STANDARDS OF INSTALLATION, UNDER COMPETENT SUPERVISION.
- VISIT THE SITE PRIOR TO BIDDING TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND ALL OTHER FACTORS WHICH MAY AFFECT THE EXECUTION OF THIS WORK. INCLUDE ALL RELATED COSTS IN THE INITIAL BID PROPOSAL.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING LOCATIONS OF ALL EXISTING UTILITIES AND AVOIDING DAMAGE TO SAME. CONTRACTOR TO CALL 811 FOR BLUE STAKE. FOR ALL MUNICIPAL OR PRIVATELY OWNED UTILITIES EXISTING WITHIN LIMITS OF WORK OF PROJECT, CONTRACTOR TO PRIVATELY LOCATE UTILITIES. IRRIGATION LINES LESS THAN 2" WILL NOT TYPICALLY BE MARKED AND CAUTION SHOULD BE USED TO AVOID DAMAGE. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ALL UTILITIES CAUSED AS A RESULT OF CONTRACT WORK. ALL DAMAGES TO BE REPAIRED IN KIND.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING WALKS, WALLS, DRIVES, CURBS, ETC. DAMAGES SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER.
- PROPER PROTECTION OF THE CONSTRUCTION AREA FOR SAFETY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. COVER ALL TRENCHES AT THE END OF EACH WORK DAY. BARRICADES SHALL BE INSTALLED AS DIRECTED BY THE OWNER OR THE PROJECT INSPECTOR. THE SITE AND ALL WORK SHALL CONFORM TO OSHA REQUIREMENTS.
- ALL EXISTING LANDSCAPE, HARDSCAPE AND SPRINKLER SYSTEMS DAMAGED OR DISTURBED DURING THE CONSTRUCTION OF THIS PROJECT BY THE CONTRACTOR SHALL BE REPLACED IN KIND.
- CONTRACTOR SHALL PAY FOR PERMITS AND INSPECTIONS AS MAY BE REQUIRED AND PROVIDE A CERTIFICATE OF INSPECTION TO THE OWNER.
- PROTECT ALL MATERIAL AND EQUIPMENT INSTALLED AGAINST DAMAGE BY OTHER TRADES, WEATHER CONDITIONS OR ANY OTHER CAUSES. EQUIPMENT FOUND DAMAGED OR IN OTHER THAN NEW CONDITION WILL BE REJECTED AS DEFECTIVE. ALL COMPONENTS SHALL BE FREE OF DUST, GRIT AND FOREIGN MATERIALS, AND LEFT AS NEW BEFORE FINAL ACCEPTANCE OF WORK.
- LEAVE THE SITE CLEAN, REMOVE ALL DEBRIS, EMPTY CARTONS, TOOLS, CONDUIT, WIRE SCRAPS AND ALL MISCELLANEOUS SPARE EQUIPMENT AND MATERIALS USED IN THE WORK DURING CONSTRUCTION.
- ALL UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC, BURIED 24" MINIMUM BELOW FINISHED GRADE, UNLESS SPECIFICALLY NOTED OTHERWISE ON PLANS OR IN DETAILS.
- PROVIDE EMT INDOOR AND CRS OUTDOOR FOR ABOVE GROUND CONDUIT. WHERE METALLIC CONDUITS COME IN CONTACT WITH DIRT, THEY SHALL BE HALF LAP WRAPPED WITH SCOTCH 50 TAPE TO 12" AFG. FITTINGS SHALL BE STEEL, THREADED TYPE WITH INSULATED THROATS. SECURELY ATTACH ALL SURFACE MOUNTED CONDUIT EVERY 10 FEET AND WITHIN 3 FEET OF EACH JUNCTION BOX, PER NEC ARTICLE 344.30.
- MINIMUM CONDUIT SIZE SHALL BE 3/4" UNLESS SPECIFICALLY NOTED OTHERWISE ON PLANS OR IN DETAILS.
- ALL FEEDERS AND BRANCH CIRCUIT WIRE SHALL BE COPPER TYPE XHHW (75 DEGREE C) FOR BELOW GRADE INSTALLATIONS (AND CONDUIT RISERS) AND THHN/THWN (75 DEGREE C) FOR ABOVE GRADE INSTALLATIONS. MINIMUM SIZE SHALL BE #12 AWG, UNLESS SPECIFICALLY NOTED OTHERWISE ON PLANS OR IN DETAILS. ALL WIRING SHALL BE IN CONDUIT. ALL CONDUCTORS SHALL BE NEW UNLESS NOTED OTHERWISE IN PLANS.
- A SEPARATE GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR (BOND) SHALL BE INSTALLED WITHIN EACH RACEWAY, INCLUDING WITHIN EMT CONDUIT. EQUIPMENT GROUNDING CONDUCTOR SHALL BE SIZED PER NEC TABLE 250.122.
- WHEN A PANEL IS SUPPLIED BY A FEEDER OR BRANCH CIRCUIT, ANY INSTALLED GROUNDING CONDUCTOR SHALL NOT BE CONNECTED TO THE EQUIPMENT GROUNDING CONDUCTOR (GEC) OR TO THE GROUNDING ELECTRODE(S) PER NEC ARTICLE 250.32(B).
- BOND ALL ENCLOSURES PER NEC ARTICLE 250.96.
- CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, ETC. NECESSARY FOR A COMPLETE AND WORKABLE ELECTRICAL SYSTEM WHETHER OR NOT THESE ITEMS ARE SPECIFICALLY NOTED ON THESE DRAWINGS. INCIDENTAL ITEMS NOT INDICATED ON THE DRAWINGS, NOR MENTIONED IN SPECIFICATIONS THAT CAN BE LEGITIMATELY AND REASONABLY INFERRED TO BELONG TO THE WORK DESCRIBED OR BE NECESSARY IN GOOD PRACTICE TO PROVIDE A COMPLETE SYSTEM, SHALL BE FURNISHED AND INSTALLED AS THOUGH ITEMIZED HERE IN EVERY DETAIL.
- CONTRACTOR IS RESPONSIBLE FOR AND SHALL PROVIDE ALL LABOR, MATERIAL, TRENCHING, CONDUIT, TRANSFORMER PAD AND OTHER REQUIRED EQUIPMENT PER UTILITY COMPANY PLANS AND SPECIFICATIONS NECESSARY FOR A COMPLETE UNDERGROUND CONDUIT SYSTEM FROM THE UTILITY POINT OF SERVICE TO THE UTILITY CO. TRANSFORMER AND FROM THE UTILITY CO. TRANSFORMER TO THE ELECTRICAL SERVICE ENTRANCE SECTION.
- ALL TRENCHING, CONDUITS, ETC. SHALL BE ROUTED AND INSTALLED IN SUCH A MANNER THAT WILL NOT DAMAGE EXISTING FACILITIES. SHOULD DAMAGE OCCUR, IT WILL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR DAMAGE TO THE SATISFACTION OF THE OWNER OR INSPECTOR.
- ALL CONDUIT RUNS SHOWN ON THIS PLAN ARE SCHEMATIC IN NATURE. THE CONTRACTOR SHALL MAKE SURE THAT ALL CONDUIT, ETC. FALLS WITHIN THE CONSTRUCTION AREA/RIGHT OF WAY. (THIS INCLUDES MAINTAINING ALL REQUIRED CLEARANCES.)
- WHEN CROSSING PATHWAYS OR SIDEWALKS, CONTRACTOR SHALL BORE UNDER EXISTING CONCRETE WALKS AND SAWCUT ASPHALT WALKS. ASPHALT WALKS SHALL BE REPLACED IN KIND.

- CONTRACTOR SHALL GUARANTEE WORK INSTALLED UNDER THE CONTRACT TO BE FREE FROM DEFECTIVE WORKMANSHIP AND MATERIALS, USUAL WEAR EXCEPTED, AND SHOULD ANY SUCH DEFECTS DEVELOP WITHIN A PERIOD OF ONE YEAR AFTER ACCEPTANCE OF THE PROJECT BY THE OWNER, THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DEFECTIVE ITEMS AND DAMAGE RESULTING FROM FAILURE OF THESE ITEMS, AT NO EXPENSE WHATSOEVER TO THE OWNER.
- CONTRACTOR SHALL IDENTIFY SERVICE ENTRANCE SECTION MAIN SERVICE DISCONNECT(S) WITH 3/32-INCH THICK LAMINATED PHENOLIC TYPE NAMEPLATES WITH 1/4-INCH MINIMUM HEIGHT LETTERS. NAMEPLATE TO BE BLACK MATTE FINISH SURFACE WITH WHITE LETTER ENGRAVING. ATTACH NAMEPLATE TO THE OUTSIDE PANEL FACE WITH TWO STAINLESS STEEL SELF-TAPPING SCREWS. NAMEPLATE SHALL READ "SERVICE DISCONNECT" PER NEC ARTICLE 230.70(B).
- ALL CIRCUITS SHALL BE LEGIBLY IDENTIFIED AT THE PANEL, JUNCTION BOXES AND AT ALL EQUIPMENT IN A PERMANENT MANNER (I.E. ETCHED PLATES, CONDUCTOR TAG, PERMANENT MARKER, ETC.). THE LABELING SHALL INCLUDE PANEL CIRCUIT NUMBER, "TO" AND "FROM" IDENTIFICATION, AND MARKED "SPARE" WHERE APPLICABLE.
- CONTRACTOR SHALL TEST ELECTRICAL SYSTEM FOR SHORT CIRCUITS AND MEGGER TEST FEEDER CIRCUIT WIRING. PROVIDE CERTIFIED TEST RESULTS FOR MEGGER TEST TO OWNER UPON COMPLETION OF PROJECT.
- ALL CONDUIT SHOWN SHALL BE CONCEALED WHEN POSSIBLE. WHEN NOT POSSIBLE, CONDUIT MAY BE SURFACE MOUNTED WITH PERMISSION OF THE OWNER OR OWNER'S REPRESENTATIVE.
- CONTRACTOR SHALL COORDINATE ALL EQUIPMENT CONNECTIONS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN. PROVIDE ADDITIONAL FUSED DISCONNECT SWITCHES AND CONTROLS IF OVERCURRENT PROTECTION OR CONTROLS IS NOT INTEGRAL WITH UNITS.
- ALL EQUIPMENT SHALL BE FUSE SIZED PER MANUFACTURES RECOMMENDATIONS AND BEAR U.L. APPROVAL. COORDINATE WITH ENGINEER/OWNER.
- ELECTRICAL DEVICES, DISCONNECT SWITCHES, ETC., SHALL BE SUPPORTED INDEPENDENT OF AND ISOLATED FROM EQUIPMENT VIBRATIONS.
- ALL OUTDOOR ELECTRICAL EQUIPMENT SHALL BE NEMA-3R OR NEMA-4 ENCLOSURES.
- ALL POLE LIGHTS SHALL BE PROVIDED WITH A TWO POLE FUSE HOLDER BUSSMANN #HEX OR A SINGLE POLE FUSE HOLDER BUSSMANN #HEB OR EQUAL FOR INLINE FUSING, PROVIDE 5 AMP FUSING IN FUSEHOLDER.
- PRIOR TO COVERING ANY ELECTRICAL CONDUITS, CONTACT THE INSPECTION DEPARTMENT 24 HOURS IN ADVANCE FOR APPROVAL.
- MATERIALS SHALL BE NEW AND OF THE BEST QUALITY WITH MANUFACTURER'S NAME PRINTED THEREON. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH NEMA, ANSI, UNDERWRITER'S LABORATORY OR OTHER APPLICABLE STANDARDS AND RATED FOR HEAVY DUTY SERVICE.
- ALL WIRING DEVICES SHALL BE SPECIFICATION GRADE. ALL 15 AND 20 AMP, 125 AND 250 VOLT, NONLOCKING RECEPTACLES INSTALLED OUTDOORS SHALL BE LISTED WEATHER-RESISTANT TYPE. RECEPTACLE COVERS IN WET LOCATIONS SHALL BE EXTRA DUTY PER NEC 406.9(B). ALL WEATHERPROOF WHILE IN-USE RECEPTACLE COVERS SHALL BE METAL.
- A MINIMUM OF (1) 20A 125V RECEPTACLE SHALL BE INSTALLED NOT LESS THAN 6 FEET AND NOT MORE THAN 20 FEET FROM THE INSIDE WALL OF EACH PERMANENTLY INSTALLED POOL, PER NEC 680.22(A)(1).
- SELECTION OF MATERIALS SHALL BE IN STRICT ACCORDANCE WITH THE DRAWINGS AND/OR SPECIFICATIONS. THE USE OF MANUFACTURER'S NAME, MODEL, AND NUMBER IS INTENDED TO ESTABLISH STYLE, QUALITY, APPEARANCE, USEFULNESS AND BID PRICE. CONTRACTOR SHALL SUBMIT TO THE OWNER OR OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL (PRIOR TO ORDERING MATERIALS) COPIES OF EQUIPMENT SHOP DRAWINGS AS FOLLOWS: LIGHT FIXTURES, POLES, POLE BASES, SERVICE ENTRANCE SECTION, ELECTRICAL EQUIPMENT, DISCONNECT SWITCHES, TIME CLOCKS AND OTHER CONTROLS, LIGHTING CONTACTORS AND PULL BOXES. AT THE TIME OF EACH SUBMITTAL, THE CONTRACTOR SHALL DEFINE AND DELINEATE IN WRITING ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS. THE REVIEW WILL BE ONLY FOR CONFORMANCE WITH THE DESIGN CONCEPT OF THE WORK AND FOR COMPLIANCE WITH THE INFORMATION CONTAINED IN THE CONTRACT DOCUMENTS. THE REVIEW OF A SPECIFIED ITEM, AS SUCH, WILL NOT INDICATE REVIEW OF THE ASSEMBLY IN WHICH THE ITEM FUNCTIONS. REVIEW BY THE OWNER OR OWNER'S REPRESENTATIVE WILL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR ANY ERRORS OR OMISSIONS IN THE SUBMITTALS NOR FROM HIS RESPONSIBILITY FOR COMPLYING WITH THE CONTRACT DOCUMENTS.
- THE SUBMITTALS SHALL BE NEATLY GROUPED AND ORGANIZED. PERTINENT INFORMATION SHALL BE HIGHLIGHTED, AND THE SPECIFIC PRODUCT SHALL BE IDENTIFIED. ALL SUBMITTALS SHALL BE COMPLETE, AND PRESENTED IN ONE PACKAGE. THE SUBMITTAL SHALL INCLUDE A COMPLETE LIST OF THE EQUIPMENT AND MATERIALS, INCLUDING THE MANUFACTURER'S NAME, PRODUCT SPECIFICATION, DESCRIPTIVE DATA, TECHNICAL LITERATURE, PERFORMANCE CHARTS, CATALOG CUTS, INSTALLATION INSTRUCTIONS, AND SPARE PART RECOMMENDATIONS FOR EACH DIFFERENT ITEM OF THE EQUIPMENT SPECIFIED.



**KEY MAP**

NO SCALE

WRIGHT ENGINEERING  
PROJECT NO:

**22143**

DESIGN BY: XAG

DRAWN BY: XAG

CHECKED BY:

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165 EAST CHILTON DRIVE • CHANDLER, ARIZONA 85225  
PHONE 480.497.5829 • FAX 480.497.5807  
www.wrightengineering.us

PROJECT: TITLE:

MESA, ARIZONA  
**REED PARK PHOTOMETRIC STUDY**  
S WILLIAMS & E 6TH AVE  
SITE ELECTRICAL COVER SHEET

NO. DATE SUBMITTALS/REVISIONS (DESCRIPTIONS)

1 6-8-23 1ST SUBMITTAL

PRELIMINARY  
NOT FOR  
CONSTRUCTION

DRAWING NO:

**SE1.1**

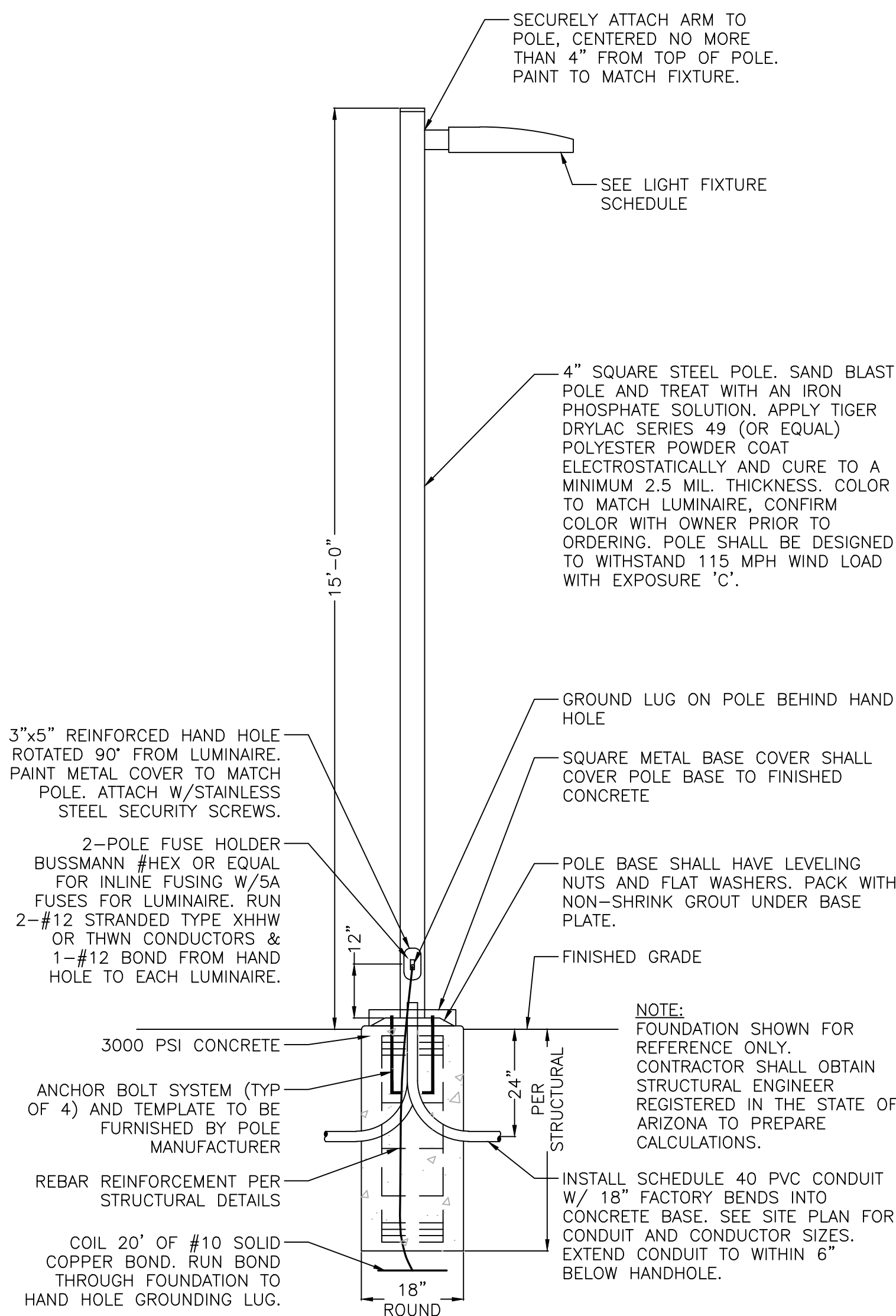
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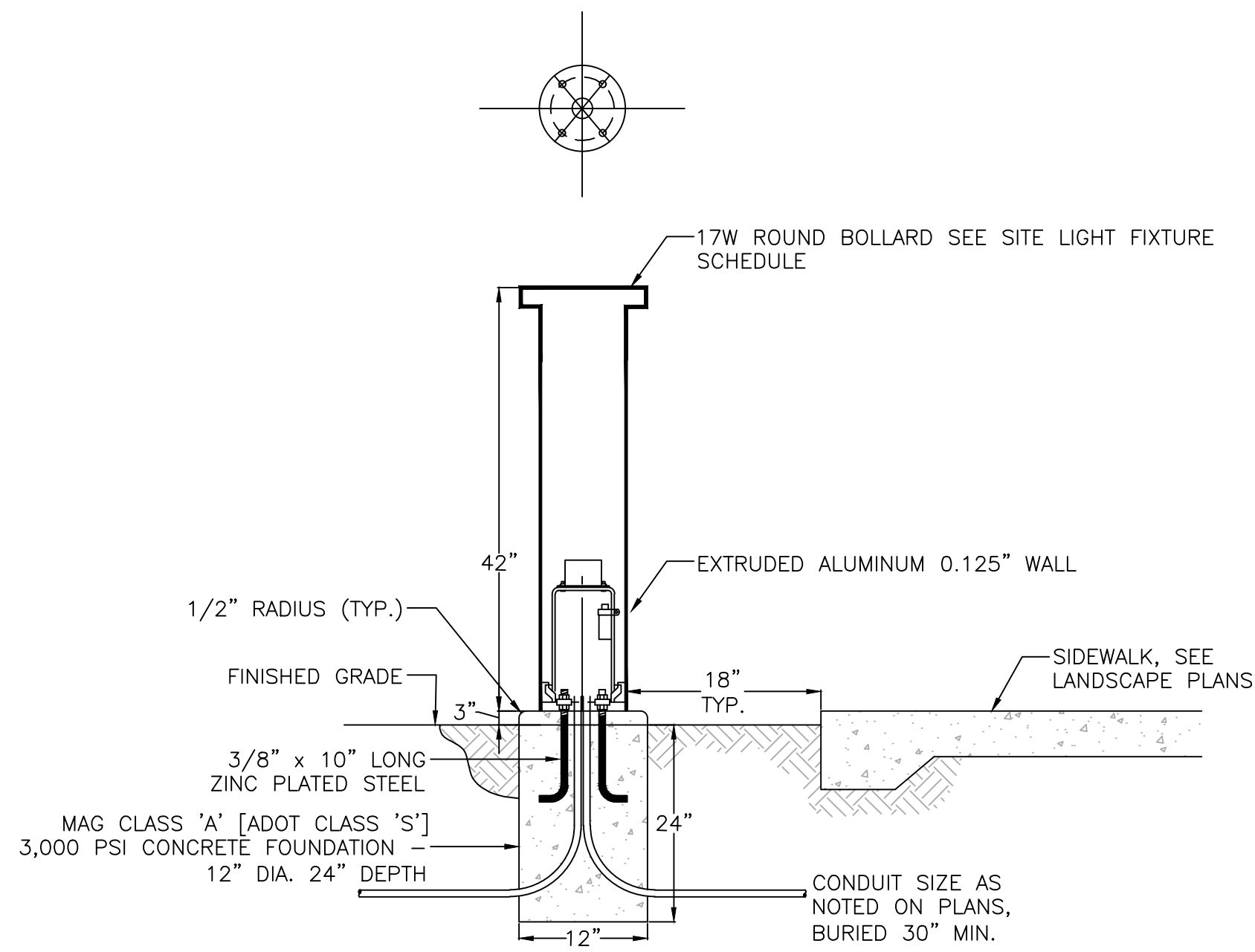
## 2 FLUSH FOUNDATION STEEL AREA LIGHT DETAIL

NO SCALE



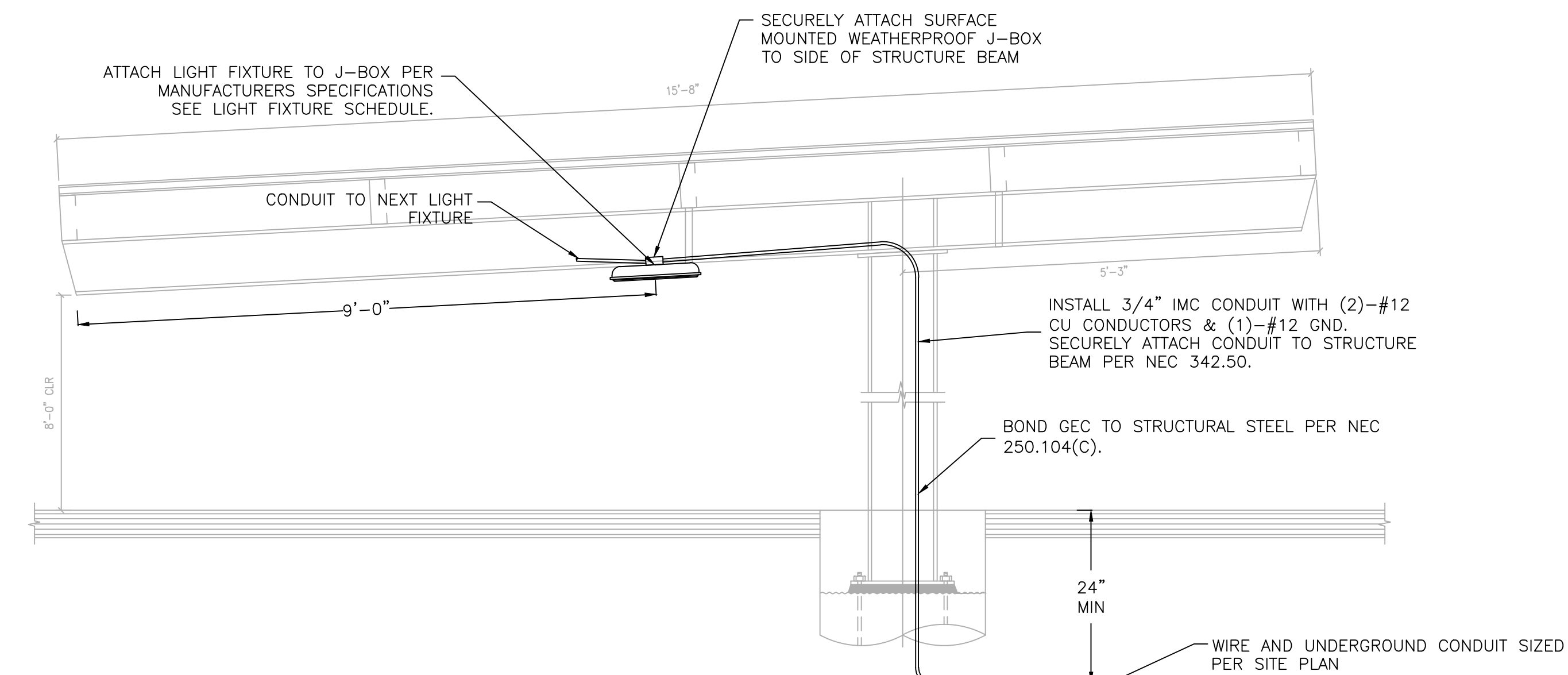
## 1 BOLLARD LIGHT DETAIL

NO SCALE



## 3 PARKING STRUCTURE LIGHTING ELEVATION DETAIL

NO SCALE



Project	Catalog #	Type
Prepared by	Notes	Date

### McGraw-Edison BRT6 Bollard

Round LED Pedestrian Luminaire

**Interactive Menu**

- Ordering Information page 2
- Product Specifications page 3
- Optical Distributions page 2
- Energy and Performance Data page 3

**Product Certifications**

UL, ENEC, IP66, IK10, IES, DLC, BAA, YEAH, IESNA

**Quick Facts**

- 4 Optical Distributions
- Available in 30", 36", and 42"
- Lumen packages range from 560 - 4400 (5W - 49W)
- Efficacy up to 122 lumens per watt
- Zero uplight on all configurations

**Dimensional Details**

Height	Weight
30"	7.28 (3.3kg)
36"	8.76 (4.0kg)
42"	10.58 (4.7kg)

COOPER Lighting Solutions

### VISION VPF4

Vandal Resistant VPF4 Series LED

WALL / CEILING / PENDANT MOUNT LED

EXISTING TYPE: \_\_\_\_\_ DATE: \_\_\_\_\_

JOB NAME: \_\_\_\_\_ APPROVED BY: \_\_\_\_\_

CATALOG NUMBER: \_\_\_\_\_

UL Listing ADA Compliant Buy American

**SPECIFICATIONS**

**Description** The Vision VPF4 series features an all aluminum, ligature resistant construction which allows it to be used in nearly any environmental condition. Designed in conjunction with an ophthalmologist, the polycarbonate lens provides complete control of glare and LED image while maintaining the high efficiency of clear optical material. The Vision VPF4 series can be row mounted to any length. Nataratorium finish is standard for all versions of this fixture.

**Housing** Marine grade heat treated extruded aluminum. Finished with Super Durable Corrosion Resistant powder coat (SDCR) that meets AAMA 2605 high performance specification, providing superior UV durability and corrosion resistance. Salt spray test: 4,000 hours.

**Lens** Extruded UV stabilized polycarbonate with integral prisms. Maximum wall thickness 0.160". Secured to housing with die cast aluminum clamps and stainless steel TORX® head screws.

**End Caps** Die cast marine grade aluminum with conduit knockouts that are visible from interior of end cap.

**Drivers** Dimming to 1%, 10% or Programmable Lumen Output driver options. Non-Dimming Driver is also available.

**LED** Samsung LM561B+ series @ 2700K, 3000K, 3500K, 4000K, or 5000K and 82 CRI wired in parallel-series. L<sub>e</sub> projected life of over 130,000 hours at 50°C.

**UL Listing** U.L., C.U.L. Damp Location Listing standard, Wet Location Listing optional.

**Buy American** Luminaire LED, LLC products are assembled in the USA. Our products meet the Buy America(h) government procurement requirements under FAR, DFARS, and DOT. Please refer to [www.acuitybrands.com/buy-american](http://www.acuitybrands.com/buy-american) for additional information.

**Warranty** Lifetime warranty against vandalism. Luminaire LED will repair or replace any fixture damaged due to vandalism for the lifetime of the installation. 10-year warranty on LED boards against operational defects. Tested in accordance with LM-80.

**Note** Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

**DIMENSIONAL DATA**

	A	B	C
VPF4 1FT	15.50	4.35	2.70
VPF4 2FT	28.10	4.35	2.70
VPF4 3FT	37.88	4.35	2.70
VPF4 4FT	49.69	4.35	2.70

Luminaire LED

Project	Catalog #	Type
Prepared by	Notes	Date

### Streetworks GLAN Galleon II

Area / Site Luminaire

**Product Features**

Light Modulator

**Interactive Menu**

- Ordering Information page 2
- Mounting Details page 3
- Optical Distributions page 5
- Product Specifications page 5
- Energy and Performance Data page 6
- Control Options page 10

**Product Certifications**

UL, ENEC, DLC, IP66, IES, BAA, YEAH, IESNA

**Quick Facts**

- Lumen packages range from 3,300 - 73,500 (33W - 552W)
- 16 optical distributions
- Efficacy up to 159 lumens per watt
- Options to meet Buy American and other domestic preference requirements

**Connected Systems**

- WaveLinx Lite
- WaveLinx

**Dimensional Details**

Number of Light Fixtures	Width 'X'	Mounting Length 'Y'	Weight with Standard 08' Arm	WPA with Standard 08' Arm
1-4	14'	22'	29 lb	0.95
5-6	22'	22'	39 lb	0.95
7-9	22'	29-1/8'	49 lb	1.1

COOPER Lighting Solutions

WRIGHT ENGINEERING  
PROJECT NO:  
**22143**  
DESIGN BY: XAG  
DRAWN BY: XAG  
CHECKED BY:

**WRIGHT** engineering corporation  
ELECTRICAL ENGINEERING AND DESIGN  
165 EAST CHILTON DRIVE • CHANDLER, ARIZONA 85225  
PHONE 480.497.5829 • FAX 480.497.5807  
www.wrightengineering.us

PROJECT: TITLE:  
**REED PARK PHOTOMETRIC STUDY**  
**S WILLIAMS & E 6TH AVE**  
SITE ELECTRICAL DETAILS

NO. DATE SUBMITTALS/REVISIONS (DESCRIPTIONS)  
1 6-8-23 1ST SUBMITTAL

PRELIMINARY  
NOT FOR  
CONSTRUCTION

DRAWING NO:  
**SE3.1**  
OF 4

Call at least two full working days before you begin excavation.  
**ARIZONA 811**  
Arizona Blue Stake, Inc.  
Dial 811 or 1-800-STAKE-IT (782-5346)

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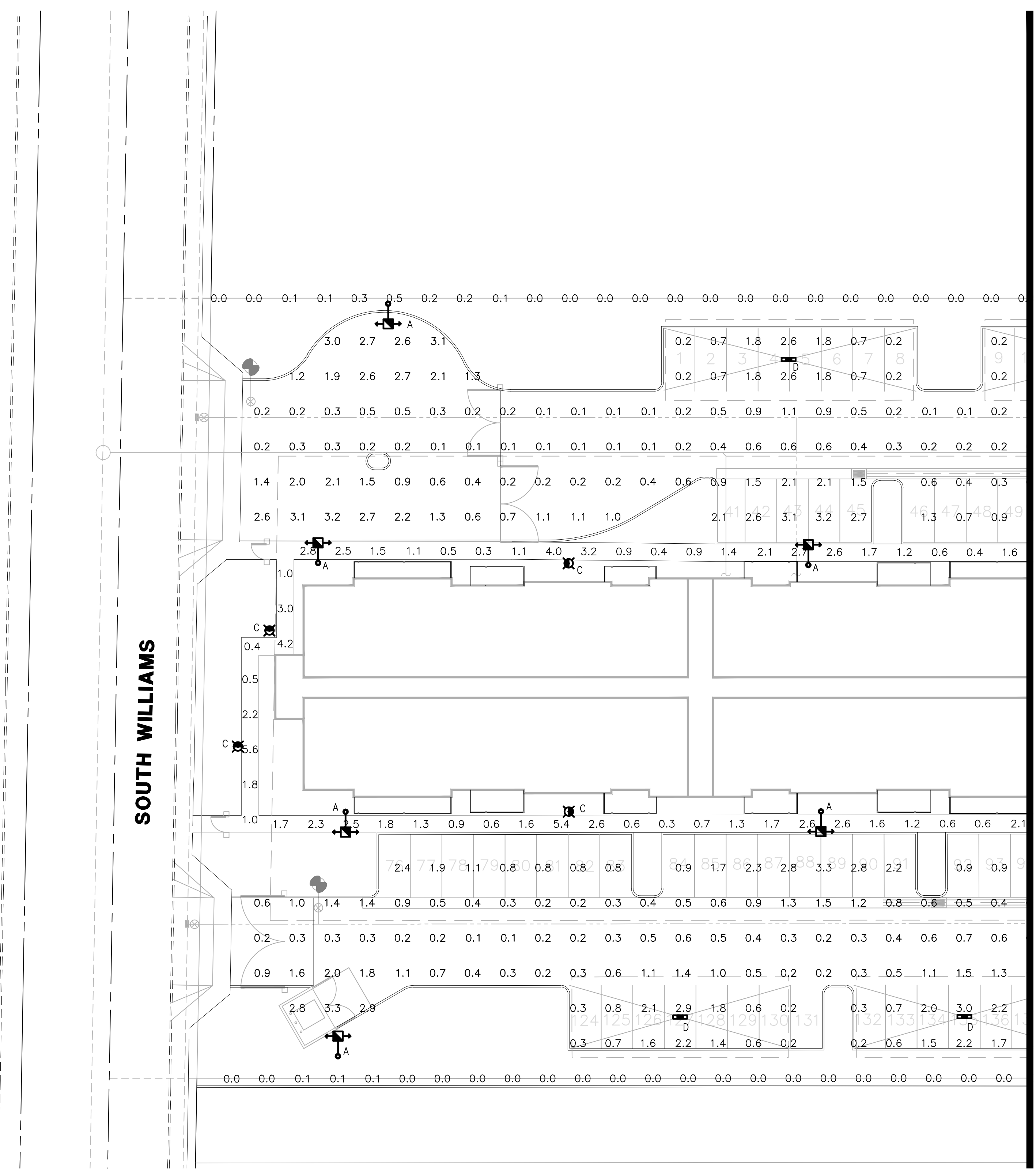
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PROJECT: TITLE:  
**REED PARK PHOTOMETRIC STUDY**  
**S WILLIAMS & E 6TH AVE**  
**PHOTOMETRIC ANALYSIS**

NO.	DATE	SUBMITTALS/REVISIONS (DESCRIPTIONS)
1	6-8-23	1ST SUBMITTAL

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DRAWING NO:  
**SE4.1**  
OF 4



**PHOTOMETRIC RESULTS**

Pool Deck  
14 points  
HORIZONTAL FOOTCANDLES  
Average 2.8  
Maximum 4.6  
Minimum 0.2  
Avg:Min 1.22  
Max:Min 2.00  
Coef Var 0.20

Pathway  
147 points  
HORIZONTAL FOOTCANDLES  
Average 1.9  
Maximum 6.1  
Minimum 0.2  
Avg:Min 0.95  
Max:Min 30.50  
Coef Var 0.68

Parking Lot  
258 points  
HORIZONTAL FOOTCANDLES  
Average 1.3  
Maximum 3.4  
Minimum 0.2  
Avg:Min 0.67  
Max:Min 17.00  
Coef Var 0.66

Roadway  
355 points at z=0, sp 10ft by 10ft  
HORIZONTAL FOOTCANDLES  
Average 0.8  
Maximum 3.2  
Minimum 0.1  
Avg:Min 0.32  
Max:Min 32.00  
Coef Var 0.86  
UnifGrad 7.50

Spill Light  
147 points  
HORIZONTAL FOOTCANDLES  
Average 0.0  
Maximum 0.5  
Minimum 0.0  
Avg:Min N/A  
Max:Min N/A  
Coef Var 3.34

Playground  
6 points at z=0, sp 10ft by 10ft  
HORIZONTAL FOOTCANDLES  
Average 2.9  
Maximum 3.8  
Minimum 2.6  
Avg:Min 1.13  
Max:Min 1.46  
Coef Var 0.14  
UnifGrad 1.36

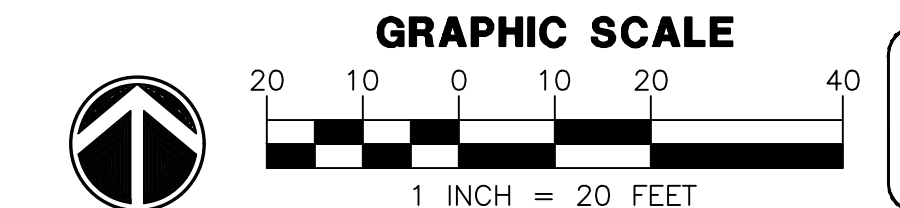
Refuse Area  
364 points at z=0, sp 10ft by 10ft  
HORIZONTAL FOOTCANDLES  
Average 0.9  
Maximum 3.4  
Minimum 0.1  
Avg:Min 0.70  
Max:Min 34.00  
Coef Var 0.87  
UnifGrad 7.50

**PHOTOMETRIC LEGEND**

- Type 5 Area Light  
candela file 'GLAN-SA1C-730-U-T2-HSS\_4843 lumens.ies'  
16 lamp(s) per luminaire, photometry is absolute  
Light Loss Factor = 0.910, watts per luminaire = 57  
mounting height= 15 ft  
number locations= 13, number luminaires= 13  
kw all locations= 0.7
- Type 2 Area Light  
candela file 'GLAN-SA2C-730-U-SWQ\_13476 lumens.ies'  
32 lamp(s) per luminaire, photometry is absolute  
Light Loss Factor = 0.910, watts per luminaire = 108  
mounting height= 15 ft  
number locations= 2, number luminaires= 2  
kw all locations= 0.2
- Bollard  
candela file 'BRT6-A3-730-U-T3-XX-BK.ies'  
8 lamp(s) per luminaire, photometry is absolute  
Light Loss Factor = 0.910, watts per luminaire = 17  
mounting height= 3.5 ft  
number locations= 13, number luminaires= 13  
kw all locations= 0.2
- Parking Structure Light  
candela file 'VPF4\_4FT\_40W\_40K\_CLP.ies'  
168 lamp(s) per luminaire, photometry is absolute  
Light Loss Factor = 0.828, watts per luminaire = 42  
mounting height= 10 ft  
number locations= 11, number luminaires= 11  
kw all locations= 0.5

**LIGHT FIXTURE SCHEDULE**

SYMBOL	LETTER ID	MANUFACTURER	CATALOG NUMBER	FINISH COLOR	VOLTS	LAMP	LUMENS (MIN)	CCT	MOUNTING HEIGHT	DETAIL	NOTES
	A	COOPER LIGHTING	GLAN-SA1C-730-U-T2-BZ-HSS	BRONZE	120	57W LED	4,843	3000K	15'-0"	AREA LIGHT SEE DETAIL 2 SHEET SE3.1	
	B	COOPER LIGHTING	GLAN-SA2C-730-U-SWQ-BZ	BRONZE	120	108W LED	13,476	3000K	15'-0"	AREA LIGHT SEE DETAIL 2 SHEET SE3.1	
	C	COOPER LIGHTING	BRT6-A3-730-U-T3-42-BZ	BRONZE	120	17W LED	1,482	3000K	3'-6"	BOLLARD LIGHT SEE DETAIL 1 SHEET SE3.1	
	D	LUMINAIRE LIGHTING	VPF4-4FT-NODIM-40W-30K-MVOLT-OP-BRZ	BRONZE	120	42.2W LED	4,061	3000K	10'-0"	PARKING STRUCTURE LIGHT SEE DETAIL 3 SHEET SE3.1	



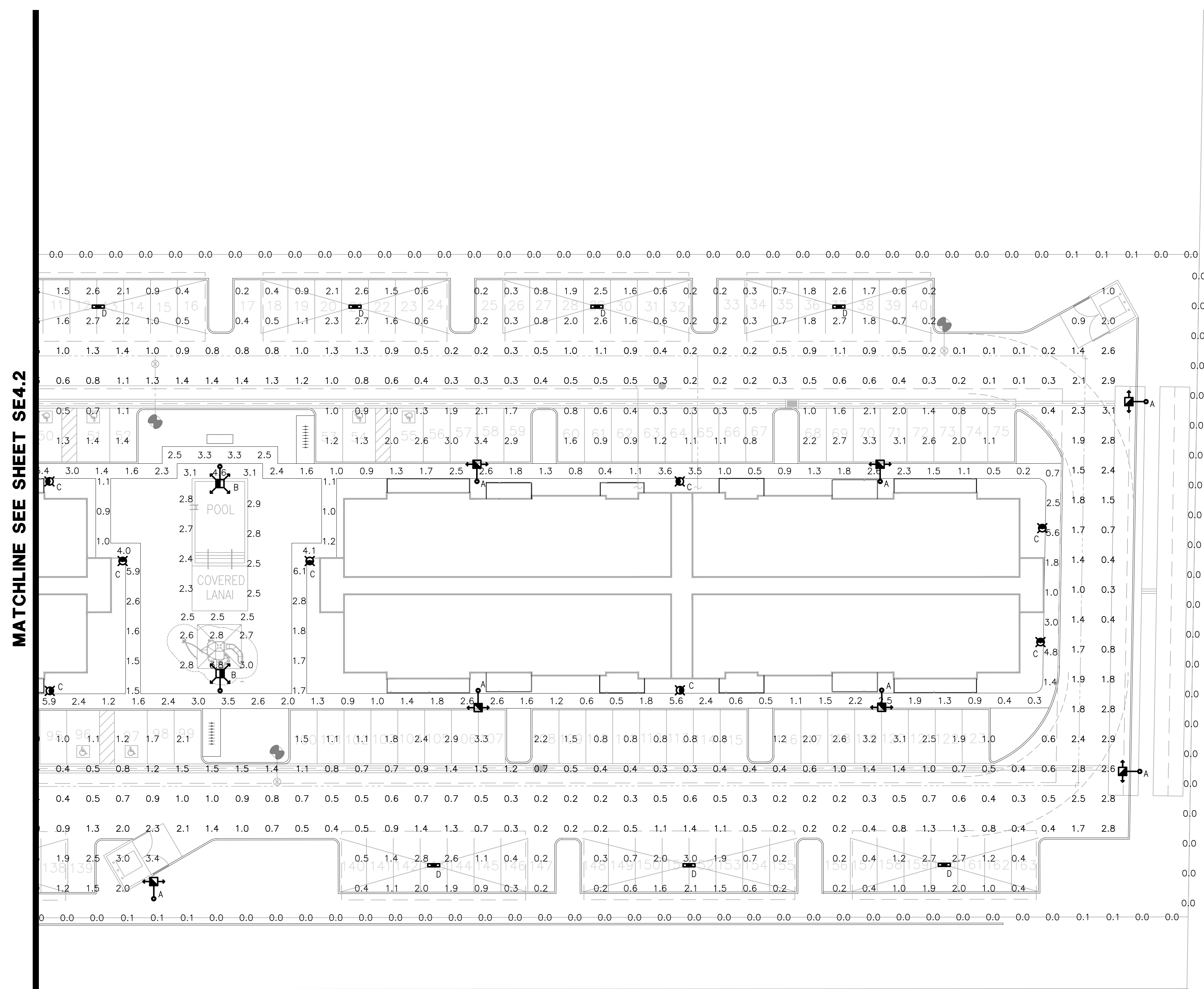
MATCHLINE SEE SHEET SE4.1

SOUTH WILLIAMS

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**PHOTOMETRIC RESULTS**

- Pool Deck**  
14 points  
HORIZONTAL FOOTCANDLES  
Average 2.8  
Maximum 4.6  
Minimum 2.3  
Avg:Min 1.22  
Max:Min 2.00  
Coef Var 0.20
- Pathway**  
147 points  
HORIZONTAL FOOTCANDLES  
Average 1.9  
Maximum 6.1  
Minimum 0.2  
Avg:Min 9.55  
Max:Min 30.50  
Coef Var 0.68
- Parking Lot**  
256 points  
HORIZONTAL FOOTCANDLES  
Average 1.3  
Maximum 3.4  
Minimum 0.2  
Avg:Min 6.67  
Max:Min 17.00  
Coef Var 0.66
- Roadway**  
355 points at z=0, sp 10ft by 10ft  
HORIZONTAL FOOTCANDLES  
Average 0.8  
Maximum 3.2  
Minimum 0.1  
Avg:Min 8.32  
Max:Min 32.00  
Coef Var 0.26  
UniGrad 7.50
- Spill Light**  
147 points  
HORIZONTAL FOOTCANDLES  
Average 0.0  
Maximum 0.5  
Minimum 0.0  
Avg:Min N/A  
Max:Min N/A  
Coef Var 3.34
- Playground**  
6 points at z=0, sp 10ft by 10ft  
HORIZONTAL FOOTCANDLES  
Average 2.9  
Maximum 3.8  
Minimum 2.6  
Avg:Min 1.13  
Max:Min 1.46  
Coef Var 0.14  
UniGrad 1.36
- Refuse Area**  
364 points at z=0, sp 10ft by 10ft  
HORIZONTAL FOOTCANDLES  
Average 0.9  
Maximum 3.4  
Minimum 0.1  
Avg:Min 8.70  
Max:Min 34.00  
Coef Var 0.87  
UniGrad 7.50

**PHOTOMETRIC LEGEND**

- Type 5 Area Light**  
candela file 'GLAN-SA1C-730-U-T2-HSS\_4843 lumens.ies'  
16 lamp(s) per luminaire, photometry is absolute  
Light Loss Factor = 0.910, watts per luminaire = 57  
mounting height= 15 ft  
number locations= 13, number luminaires= 13  
kw all locations= 0.7
- Type 2 Area Light**  
candela file 'GLAN-SA2C-730-U-5WQ\_13476 lumens.ies'  
32 lamp(s) per luminaire, photometry is absolute  
Light Loss Factor = 0.910, watts per luminaire = 108  
mounting height= 15 ft  
number locations= 2, number luminaires= 2  
kw all locations= 0.2
- Bollard**  
candela file 'BRT6-A3-730-U-T3-XX-BK.ies'  
8 lamp(s) per luminaire, photometry is absolute  
Light Loss Factor = 0.910, watts per luminaire = 17  
mounting height= 3.5 ft  
number locations= 13, number luminaires= 13  
kw all locations= 0.2
- Parking Structure Light**  
candela file 'VPF4-4FT\_40W\_40K\_CLP.ies'  
168 lamp(s) per luminaire, photometry is absolute  
Light Loss Factor = 0.828, watts per luminaire = 42  
mounting height= 10 ft  
number locations= 11, number luminaires= 11  
kw all locations= 0.5

MATCHLINE SEE SHEET SE4.2

**LIGHT FIXTURE SCHEDULE**

SYMBOL	LETTER ID	MANUFACTURER	CATALOG NUMBER	FINISH COLOR	VOLTS	LAMP	LUMENS (MIN)	CCT	MOUNTING HEIGHT	DETAIL	NOTES
	A	COOPER LIGHTING	GLAN-SA1C-730-U-T2-BZ-HSS	BRONZE	120	57W LED	4,843	3000K	15'-0"	AREA LIGHT SEE DETAIL 2 SHEET SE3.1	
	B	COOPER LIGHTING	GLAN-SA2C-730-U-5WQ-BZ	BRONZE	120	108W LED	13,476	3000K	15'-0"	AREA LIGHT SEE DETAIL 2 SHEET SE3.1	
	C	COOPER LIGHTING	BRT6-A3-730-U-T3-42-BZ	BRONZE	120	17W LED	1,482	3000K	3'-6"	BOLLARD LIGHT SEE DETAIL 1 SHEET SE3.1	
	D	LUMINAIRE LIGHTING	VPF4-4FT-NODIM-40W-30K-MVOLT-OP-BRZ	BRONZE	120	42.2W LED	4,061	3000K	10'-0"	PARKING STRUCTURE LIGHT SEE DETAIL 3 SHEET SE3.1	

