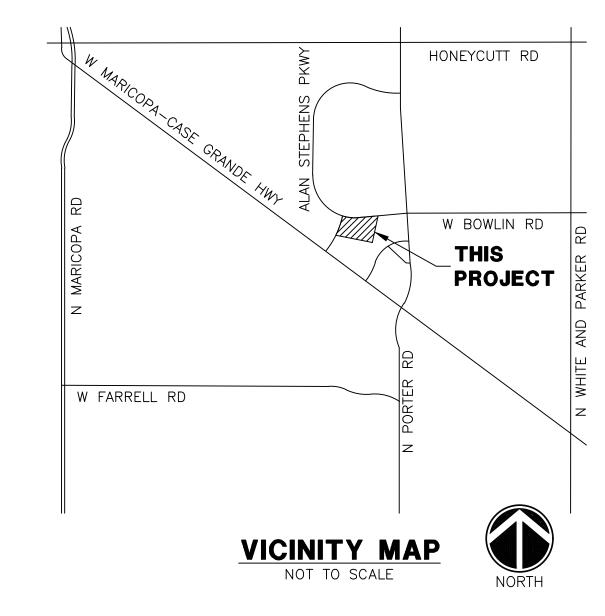
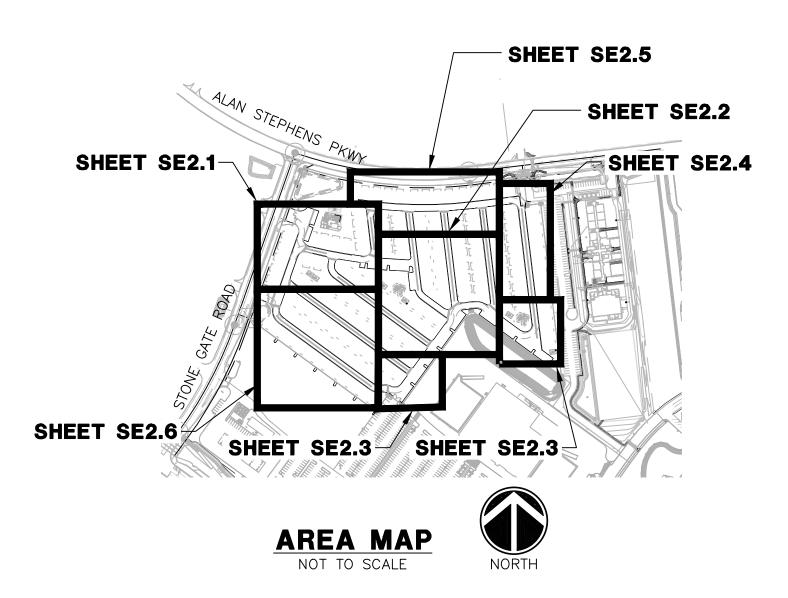
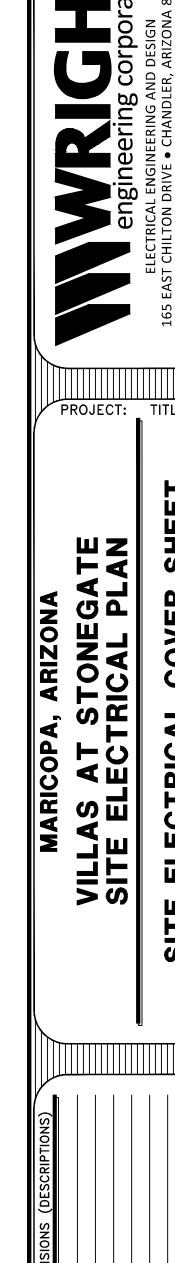
- 3. VISIT THE SITE PRIOR TO BIDDING TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND ALL OTHER FACTORS WHICH MAY AFFECT THE EXECUTION OF THIS WORK. INCLUDE ALL RELATED COSTS IN THE INITIAL BID PROPOSAL
- 4. CONTRACTOR IS RESPONSIBLE FOR VERIFYING LOCATIONS OF ALL EXISTING UTILITIES AND AVOIDING DAMAGE 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.
- 5. 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.
- 6. 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.
- 7. ALL EXISTING LANDSCAPE, HARDSCAPE AND SPRINKLER SYSTEMS DAMAGED OR DISTURBED DURING THE CONSTRUCTION OF THIS PROJECT BY THE CONTRACTOR SHALL BE REPLACED IN KIND.
- 8. CONTRACTOR SHALL PAY FOR PERMITS AND INSPECTIONS AS MAY BE REQUIRED AND PROVIDE A CERTIFICATE OF INSPECTION TO THE OWNER.
- 9. 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.
- 10. 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.
- 11. ALL UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC, BURIED 24" MINIMUM BELOW FINISHED GRADE, UNLESS SPECIFICALLY NOTED OTHERWISE ON PLANS OR IN DETAILS.
- 12. PROVIDE EMT INDOOR AND GRS 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.
- 13. MINIMUM CONDUIT SIZE SHALL BE 3/4" UNLESS SPECIFICALLY NOTED OTHERWISE ON PLANS OR IN DETAILS.
- 14. 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.
- 15. 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
- 16. WHEN A PANEL IS SUPPLIED BY A FEEDER OR BRANCH CIRCUIT, ANY INSTALLED GROUNDED CONDUCTOR SHALL NOT BE CONNECTED TO THE EQUIPMENT GROUNDING CONDUCTOR (GEC) OR TO THE GROUNDING ELECTRODE(S) PER NEC ARTICLE 250.32(B).
- 17. BOND ALL ENCLOSURES PER NEC ARTICLE 250.96.
- 18. 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.
- 19. 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
- 20. 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.
- 21. 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.)
- 22. WHEN CROSSING PATHWAYS OR SIDEWALKS, CONTRACTOR SHALL BORE UNDER EXISTING CONCRETE WALKS AND SAWCUT ASPHALT WALKS. ASPHALT WALKS SHALL BE REPLACED IN KIND.
- 23. 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.
- 24. 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).
- 25. 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.
- 26. 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.
- 27. 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.
- 28. 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.
- 29. ALL EQUIPMENT SHALL BE FUSE SIZED PER MANUFACTURES RECOMMENDATIONS AND BEAR U.L. APPROVAL. COORDINATE WITH ENGINEER/OWNER.

- 30. ELECTRICAL DEVICES, DISCONNECT SWITCHES, ETC., SHALL BE SUPPORTED INDEPENDENT OF AND ISOLATED FROM EQUIPMENT VIBRATIONS.
- 31. ALL OUTDOOR ELECTRICAL EQUIPMENT SHALL BE NEMA-3R OR NEMA-4 ENCLOSURES.
- 32. CONDUITS OR RACEWAYS ROUTED FROM INDOORS TO OUTDOORS OR AS DESCRIBED IN NEC 300.7(A), SHALL BE SEALED WITH A PLIABLE SEALING COMPOUND AT A CONDUIT BODY OR AT A JUNCTION BOX BEFORE THE CONDUIT ENTERS THE COLDER ENVIRONMENT.
- 33. CONDUITS OR RACEWAYS INSTALLED IN AREAS WHERE ELEVATION CHANGES MAY CAUSE WATER OR MOISTURE TO ENTER THE ELECTRICAL EQUIPMENT THROUGH THE CONDUIT SHALL BE SEALED WITH A HERMETIC CONDUIT SEAL AT BOTH ENDS OF THE CONDUIT OR RACEWAY.
- 34. INSTALL FIRE SEALS IN ALL CONDUITS PENETRATING THE FIRE WALL TO MAINTAIN THE FIRE RESISTANCE RATING OF THE WALL, AS REQUIRED BY NEC 300.21.
- 35. 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.
- 36. PRIOR TO POURING THE POLE BASES OR COVERING ANY ELECTRICAL CONDUITS, CONTACT THE INSPECTION DEPARTMENT 24 HOURS IN ADVANCE FOR APPROVAL.
- 37. 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.
- 38. 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.
- 39. 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).
- 40. 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.
- 41. 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.







WRIGHT ENGINEERING PROJECT NO:

22109

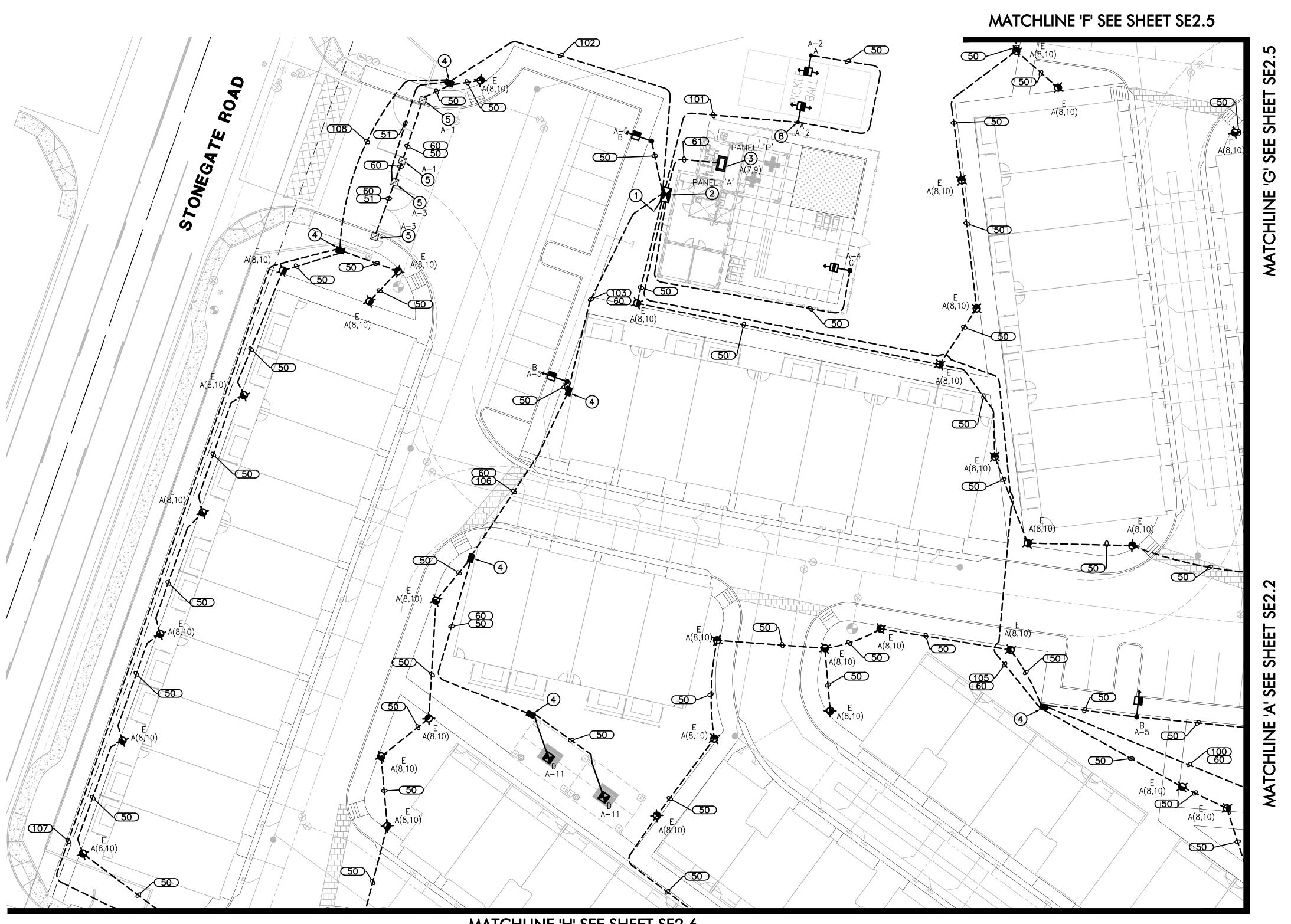
DESIGN BY: XAG
DRAWN BY: XAG

CHECKED BY: CMT





Dial 811 or 1-800-STAKE-IT (782-53



MATCHLINE 'H' SEE SHEET SE2.6

	LIGHT FIXTURE SCHEDULE										
SYMBOL	LETTER ID	MANUFACTURER	CATALOG NUMBER	FINISH COLOR	VOLTS	LAMP	LUMENS (MIN)	ССТ	MOUNTING HEIGHT	DETAIL	
•	А	COOPER LIGHTING	GAN-SA2C-730-U-T3-BZ-HSS	BRONZE	120	113W LED	13,182	3000K	14'-0"	TYPE 3 AREA LIGHT SEE DETAIL 4 SHEET SE3.3	
○	В	ARCHITECTURAL AREA LIGHTING		BRONZE	120	69.46W LED	8,512	3000K	14'-0"	TYPE 4 PARKING LOT LIGHT SEE DETAIL 6 SHEET SE3.4	
⊶□ →	С	COOPER LIGHTING	GAN-SA4C-730-U-T4W-BZ	BRONZE	120	213W LED	25,347	3000K	14'-0"	TYPE 4 AREA LIGHT SEE DETAIL 4 SHEET SE3.3	
	D	LUMINAIRE LIGHTING	SWP1212-NODIM-40W-30K-MVOLT-OP-BRZ	BRONZE	120	43W LED	3,350	3000K	10'-0"	RAMADA LIGHT SEE DETAIL 5 SHEET SE3.3	
Ħ	E	COOPER LIGHTING	BRT6-A3-730-U-T4-42-BZ	BRONZE	120	22W LED	1,786	3000K	3'-6"	BOLLARD SEE DETAIL 7 SHEET SE3.4	

- 1) 2.5" SCH. 40 PVC CONDUIT TO POINT OF SERVICE, CONTRACTOR SHALL VERIFY POINT OF ELECTRIC SERVICE LOCATION AND SPECIFICATIONS WITH POWER CO. PLANS & INSTALL CONDUIT TO THIS LOCATION. POWER CO. PLANS WILL DETERMINE EXACT LOCATION OF CONDUIT AND TAKE PRECEDENCE OVER THESE DRAWINGS.
- (2) 200 AMP, 120/240V, 1ø, 3W, METERED ELECTRIC PEDESTAL, SEE DETAIL 1 ON SE3.1. 3 125 AMP, 120/240V, 1ø, 3W, WALL-MOUNTED SUB-PANEL PER BUILDING ELECTRICAL
- (4) #3-1/2 CONCRETE PULL BOX, SEE DETAIL 3 ON SE3.2.
- (5) GATE CONTROLLER. COORDINATE WITH GATE CONTRACTOR FOR EXACT LOCATION AND DETAILS. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR CONDUIT, STUB UPS, CONDUCTORS, SPLICES AND OTHER NECESSARY COMPONENTS FOR A COMPLETE SYSTEM.
- 6 GATE KEYPAD. COORDINATE WITH GATE CONTRACTOR FOR EXACT LOCATION AND DETAILS. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR WIRING.
- (7) 100 AMP, 120/240V, 1ø, 3W, METERED ELECTRIC PEDESTAL, SEE DETAIL 2 ON SE3.1. (8) PUSH BUTTON ON LIGHT POLE TO FACE COURT, SEE DETAIL 4 ON SE3.3.
- (9) STUB OUT 5' OF 1" CONDUIT WITH PULL ROPE AS SHOWN ON SITE PLAN, FOR FUTURE USE. CAP CONDUIT AT GRADE AND MARK LOCATION ON AS-BUILT DRAWINGS.

LEGEND

- 200A 120/240V 10 PEDESTAL
- 125A 120/240V 10 SUB-PANEL PER BUILDING ELECTRICÁL PLANS
- NEW PULL BOX
- ☐ GATE CONTROLLER
- □ GATE KEYPAD
- NEW UNDERGROUND CONDUIT
- A-1 CIRCUIT NUMBER

CONDUIT

- (101) WIRE & CONDUIT TAG, SEE WIRE & CONDUIT TABLE
- 100A 120/240V 1ø PEDESTAL

WIRE & CONDUIT TABLE

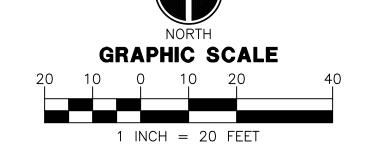
WIRE

REMARKS

NO.	SIZE	POWER	GROUND	TYPE*	(CKT #)	
50	1"	2-#12	1-#12	CU	TYPICAL	
51	1"	2-#10	1-#10	CU	TYPICAL	
52	1"	2-#8	1-#8	CU	TYPICAL	
53	1"	2-#4	1-#4	CU	TYPICAL	
60	1.5"	PULL	ROPE		SPARE	
61	1.5"	3-#1	1-#6	CU	PANEL 'P'	
100	1"	2-#12	1-#12	CU	A-5	
		2-#12		CU	A-6	
		2-#12		CU	A-11	
101	1"	2-#12	1-#12	CU	A-2	
		2-#12		CU	PICKLE BALL PB	
102	1"	2-#8	1-#8	CU	A-1	
		2-#8		CU	A-3	
	1.5"	2-#4	1-#4	CU	A-13	
		2-#4		CU	A-15	
		2-#12		CU	A(8,10)	7
103	1"	2-#12	1-#12	CU	A-5]
		2-#12		CU	A-11	7
		2-#12		CU	A(8,10)	7
104	1"	2-#12	1-#12	CU	A-6	7
		2-#12		CU	A-11	7
105	1"	2-#12	1-#12	CU	A-5	1
		2-#12		CU	A-6	7
		2-#12		CU	A-11	7
		2-#12		CU	A(8,10)	7
106	1"	2-#12	1-#12	CU	A-6	7
		2-#12		CU	A(8,10)	1
107	1.5"	2-#4	1-#4	CU	A-13	7
		2-#4		CU	A-15	7
108	1.5"	2-#4	1-#4	CU	A-13	7
		2-#4		CU	A-15	7
		2-#12		CU	A(8,10)	7
109	1"	2-#12	1-#12	CU	A-5	7
		2-#12		CU	A-6	7
200	1 5"	2_#4	1_#1		R_3	
		2-#12		CU	B-4	
2 01	1.5"	2-#2	1-#2	CU	B-3	
		2-#12		CU	B-4	
202	1.5"	2-#2	1-#2	CU	B-3	
		2-#12		CU	B-4	
		2-#12		CU	B-6	1
03	1"	2-#12	1-#12	CU	B-4	
		2-#12		CU	B-6	I
		. "				_

* THIS COLUMN IDENTIFIES THE CONDUCTOR MATERIAL TYPE.

CU = COPPER, AL = ALUMINUM.





PROJECT NO: 22109 DESIGN BY: XAG DRAWN BY: XAG CHECKED BY: CMT

WRIGHT ENGINEERING

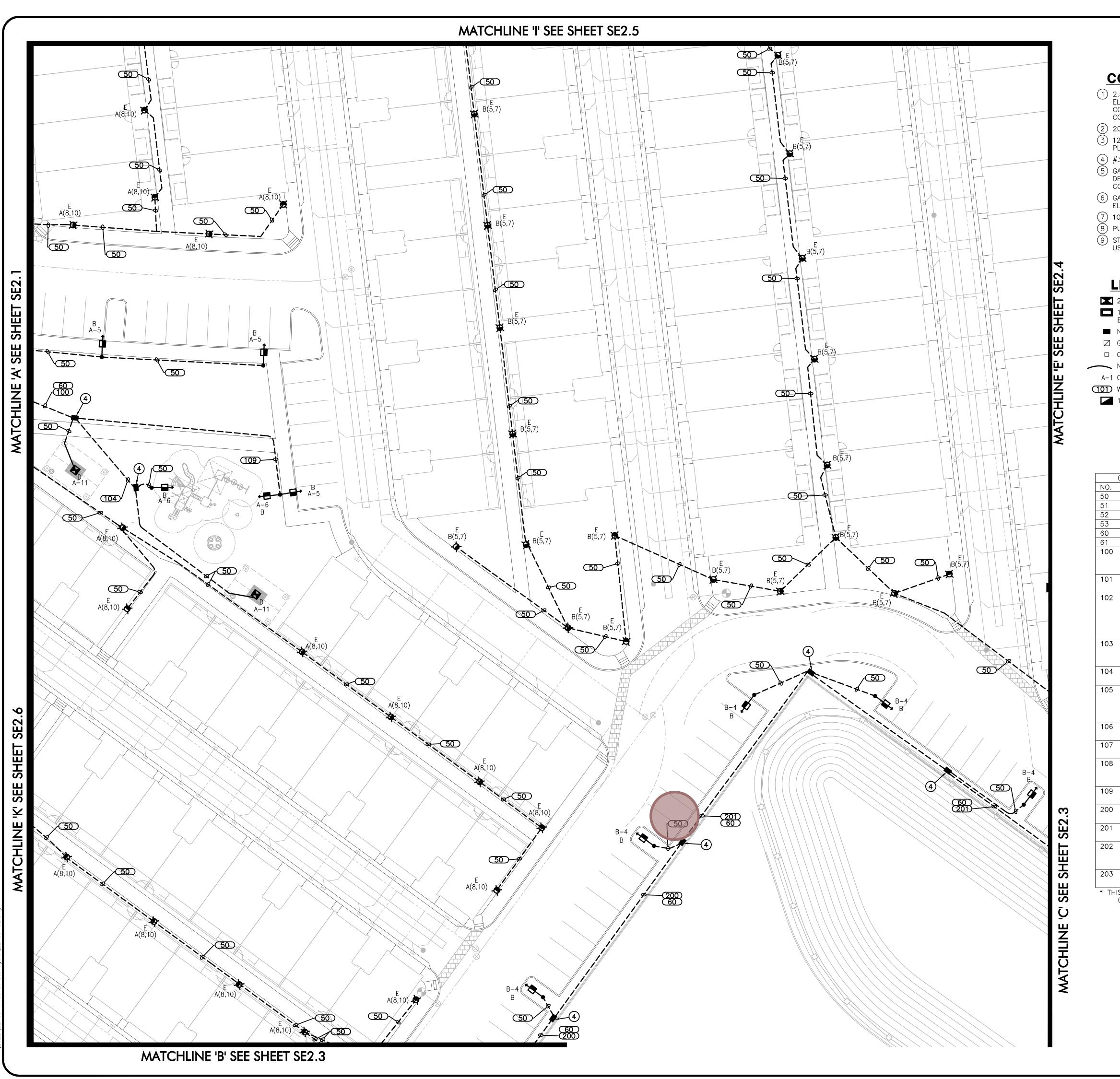
PROJECT: TITLE:

EGA.

VILL

DRAWING NO:

SE2.1 OF 18



- 1) 2.5" SCH. 40 PVC CONDUIT TO POINT OF SERVICE, CONTRACTOR SHALL VERIFY POINT OF ELECTRIC SERVICE LOCATION AND SPECIFICATIONS WITH POWER CO. PLANS & INSTALL CONDUIT TO THIS LOCATION. POWER CO. PLANS WILL DETERMINE EXACT LOCATION OF CONDUIT AND TAKE PRECEDENCE OVER THESE DRAWINGS.
- 2) 200 AMP, 120/240V, 1ø, 3W, METERED ELECTRIC PEDESTAL, SEE DETAIL 1 ON SE3.1.
- 3 125 AMP, 120/240V, 1ø, 3W, WALL-MOUNTED SUB-PANEL PER BUILDING ELECTRICAL
- (4) #3-1/2 CONCRETE PULL BOX, SEE DETAIL 3 ON SE3.2.
- (5) GATE CONTROLLER. COORDINATE WITH GATE CONTRACTOR FOR EXACT LOCATION AND DETAILS. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR CONDUIT, STUB UPS, CONDUCTORS, SPLICES AND OTHER NECESSARY COMPONENTS FOR A COMPLETE SYSTEM.
- (6) GATE KEYPAD. COORDINATE WITH GATE CONTRACTOR FOR EXACT LOCATION AND DETAILS. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR WIRING.
- (7) 100 AMP, 120/240V, 1ø, 3W, METERED ELECTRIC PEDESTAL, SEE DETAIL 2 ON SE3.1. (8) PUSH BUTTON ON LIGHT POLE TO FACE COURT, SEE DETAIL 4 ON SE3.3.
- 9 STUB OUT 5' OF 1" CONDUIT WITH PULL ROPE AS SHOWN ON SITE PLAN, FOR FUTURE USE. CAP CONDUIT AT GRADE AND MARK LOCATION ON AS—BUILT DRAWINGS.

LEGEND

200A 120/240V 10 PEDESTAL

125A 120/240V 10 SUB-PANEL PER BUILDING ELECTRICAL PLANS

■ NEW PULL BOX

☐ GATE CONTROLLER

□ GATE KEYPAD

NEW UNDERGROUND CONDUIT

A-1 CIRCUIT NUMBER

(101) WIRE & CONDUIT TAG, SEE WIRE & CONDUIT TABLE

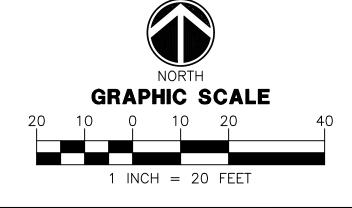
100A 120/240V 1ø PEDESTAL

WIRE & CONDUIT TABLE

	NDUIT		WIRE		REMARKS
NO.	SIZE	POWER	GROUND	TYPE*	(CKT #)
50	1"	2-#12	1-#12	CU	TYPICAL
51	1"	2-#10	1-#10	CU	TYPICAL
52	1"	2-#8	1-#8	CU	TYPICAL
53	1"	2-#4	1-#4	CU	TYPICAL
60	1.5"	PULL	ROPE		SPARE
61	1.5"	3-#1	1-#6	CU	PANEL 'P'
100	1"	2-#12	1-#12	CU	A-5
		2-#12		CU	A-6
		2-#12		CU	A-11
101	1"	2-#12	1-#12	CU	A-2
		2-#12		CU	PICKLE BALL PB
102	1"	2-#8	1-#8	CU	A-1
		2-#8		CU	A-3
	1.5"	2-#4	1-#4	CU	A-13
		2-#4		CU	A-15
		2-#12		CU	A(8,10)
103	1"	2-#12	1-#12	CU	A-5
		2-#12		CU	A-11
		2-#12		CU	A(8,10)
104	1"	2-#12	1-#12	CU	A-6
		2-#12		CU	A-11
105	1"	2-#12	1-#12	CU	A-5
		2-#12		CU	A-6
		2-#12		CU	A-11
		2-#12		CU	A(8,10)
106	1"	2-#12	1-#12	CU	A-6
		2-#12		CU	A(8,10)
107	1.5"	2-#4	1-#4	CU	A-13
		2-#4	"	CU	A-15
108	1.5"	2-#4	1-#4	CU	A-13
		2-#4		CU	A-15
		2-#12		CU	A(8,10)
109	1"	2-#12	1-#12	CU	A-5
-		2-#12	" -	CU	A-6
200	1.5"	2-#4	1-#4	CU	B-3
		2-#12	"	CU	B-4
201	1.5"	2-#2	1-#2	CU	B-3
		2-#12		CU	B-4
202	1.5"	2-#2	1-#2	CU	B-3
		2-#12		CU	B-4
		2-#12		CU	B-6
203	1"	2-#12	1-#12	CU	B-4
	1 '	2-#12	─ ' " ' -	CU	B-6

* THIS COLUMN IDENTIFIES THE CONDUCTOR MATERIAL TYPE. CU = COPPER, AL = ALUMINUM.

SEE SHEET SE2.1 FOR LIGHT FIXTURE SCHEDULE





WRIGHT ENGINEERING PROJECT NO: 22109

DESIGN BY: XAG DRAWN BY: XAG CHECKED BY: CMT

PROJECT: TITLE:

GA PL VILL

DRAWING NO: **SE2.2**

MATCHLINE 'B' SEE SHEET SE2.2

MATCHLINE 'D' SEE SHEET SE2.4

CONSTRUCTION NOTES

- 1) 2.5" SCH. 40 PVC CONDUIT TO POINT OF SERVICE, CONTRACTOR SHALL VERIFY POINT OF ELECTRIC SERVICE LOCATION AND SPECIFICATIONS WITH POWER CO. PLANS & INSTALL CONDUIT TO THIS LOCATION. POWER CO. PLANS WILL DETERMINE EXACT LOCATION OF CONDUIT AND TAKE PRECEDENCE OVER THESE DRAWINGS.
- 2) 200 AMP, 120/240V, 1ø, 3W, METERED ELECTRIC PEDESTAL, SEE DETAIL 1 ON SE3.1.
- 3 125 AMP, 120/240V, 1ø, 3W, WALL-MOUNTED SUB-PANEL PER BUILDING ELECTRICAL
- (4) #3-1/2 CONCRETE PULL BOX, SEE DETAIL 3 ON SE3.2. 5) GATE CONTROLLER. COORDINATE WITH GATE CONTRACTOR FOR EXACT LOCATION AND DETAILS. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR CONDUIT, STUB UPS,
- (6) GATE KEYPAD. COORDINATE WITH GATE CONTRACTOR FOR EXACT LOCATION AND DETAILS. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR WIRING.

CONDUCTORS, SPLICES AND OTHER NECESSARY COMPONENTS FOR A COMPLETE SYSTEM.

- (7) 100 AMP, 120/240V, 1ø, 3W, METERED ELECTRIC PEDESTAL, SEE DETAIL 2 ON SE3.1.
- (8) PUSH BUTTON ON LIGHT POLE TO FACE COURT, SEE DETAIL 4 ON SE3.3. (9) STUB OUT 5' OF 1" CONDUIT WITH PULL ROPE AS SHOWN ON SITE PLAN, FOR FUTURE

USE. CAP CONDUIT AT GRADE AND MARK LOCATION ON AS-BUILT DRAWINGS.

LEGEND

- 200A 120/240V 1ø PEDESTAL
- 125A 120/240V 10 SUB-PANEL PER BUILDING ELECTRICAL PLANS
- NEW PULL BOX

GATE KEYPAD

- ☐ GATE CONTROLLER
- NEW UNDERGROUND CONDUIT
- A-1 CIRCUIT NUMBER
- 100A 120/240V 10 PEDESTAL

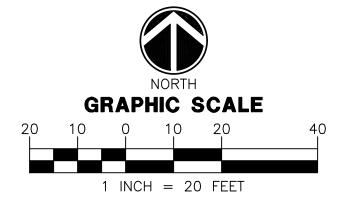
(101) WIRE & CONDUIT TAG, SEE WIRE & CONDUIT TABLE

	LIGHT FIXTURE SCHEDULE											
SYMBOL	LETTER ID	MANUFACTUREF	CATALOG NUMBER	FINISH COLOR	VOLTS	LAMP	LUMENS (MIN)	CCT	MOUNTING HEIGHT	DETAIL		
<u></u>	А	COOPER LIGHTING	GAN-SA2C-730-U-T3-BZ-HSS	BRONZE	120	113W LED	13,182	3000K	14'-0"	TYPE 3 AREA LIGHT SEE DETAIL 4 SHEET SE3.3		
←	В	ARCHITECTURAL AREA LIGHTING		BRONZE	120	69.46W LED	8,512	3000K	14'-0"	TYPE 4 PARKING LOT LIGHT SEE DETAIL 6 SHEET SE3.4		
⊶□ →	С	COOPER LIGHTING	GAN-SA4C-730-U-T4W-BZ	BRONZE	120	213W LED	25,347	3000K	14'-0"	TYPE 4 AREA LIGHT SEE DETAIL 4 SHEET SE3.3		
×	D	LUMINAIRE LIGHTING	SWP1212-NODIM-40W-30K-MVOLT-OP-BRZ	BRONZE	120	43W LED	3,350	3000K	10'-0"	RAMADA LIGHT SEE DETAIL 5 SHEET SE3.3		
Ħ	E	COOPER LIGHTING	BRT6-A3-730-U-T4-42-BZ	BRONZE	120	22W LED	1,786	3000K	3'-6"	BOLLARD SEE DETAIL 7 SHEET SE3.4		

WIRE & CONDUIT TABLE

	NDUIT		WIRE		REMARKS
NO.	SIZE	POWER	GROUND	TYPE*	(CKT #)
50	1"	2-#12	1-#12	CU	TYPICAL
51	1"	2-#10	1-#10	CU	TYPICAL
52	1"	2-#8	1-#8	CU	TYPICAL
53	1"	2-#4	1-#4	CU	TYPICAL
60	1.5"	PULL	ROPE		SPARE
61	1.5"	3-#1	1-#6	CU	PANEL 'P'
100	1"	2-#12	1-#12	CU	A-5
		2-#12		CU	A-6
		2-#12		CU	A-11
101	1"	2-#12	1-#12	CU	A-2
		2-#12		CU	PICKLE BALL PB
102	1"	2-#8	1-#8	CU	A-1
		2-#8		CU	A-3
	1.5"	2-#4	1-#4	CU	A-13
		2-#4		CU	A-15
		2-#12		CU	A(8,10)
103	1"	2-#12	1-#12	CU	A-5
		2-#12		CU	A-11
		2-#12		CU	A(8,10)
104	1"	2-#12	1-#12	CU	A-6
		2-#12		CU	A-11
105	1"	2-#12	1-#12	CU	A-5
		2-#12		CU	A-6
		2-#12		CU	A-11
		2-#12		CU	A(8,10)
106	1"	2-#12	1-#12	CU	A-6
		2-#12		CU	A(8,10)
107	1.5"	2-#4	1-#4	CU	A-13
		2-#4	"	CU	A-15
108	1.5"	2-#4	1-#4	CU	A-13
		2-#4		CU	A-15
		2-#12		CU	A(8,10)
109	1"	2-#12	1-#12	CU	A-5
		2-#12		CU	A-6
200	1.5"	2-#4	1-#4	CU	B-3
		2-#12	"	CU	B-4
201	1.5"	2-#2	1-#2	CU	B-3
		2-#12	"	CU	B-4
202	1.5"	2-#2	1-#2	CU	B-3
		2-#12	"	CU	B-4
		2-#12		CU	B-6
203	1"	2-#12	1-#12	CU	B-4
	1 '			CU	B-6

THIS COLUMN IDENTIFIES THE CONDUCTOR MATERIAL TYPE. CU = COPPER, AL = ALUMINUM.







WRIGHT ENGINEERING PROJECT NO:

22109

DESIGN BY: XAG DRAWN BY: XAG CHECKED BY: CMT

PROJECT: TITLE:

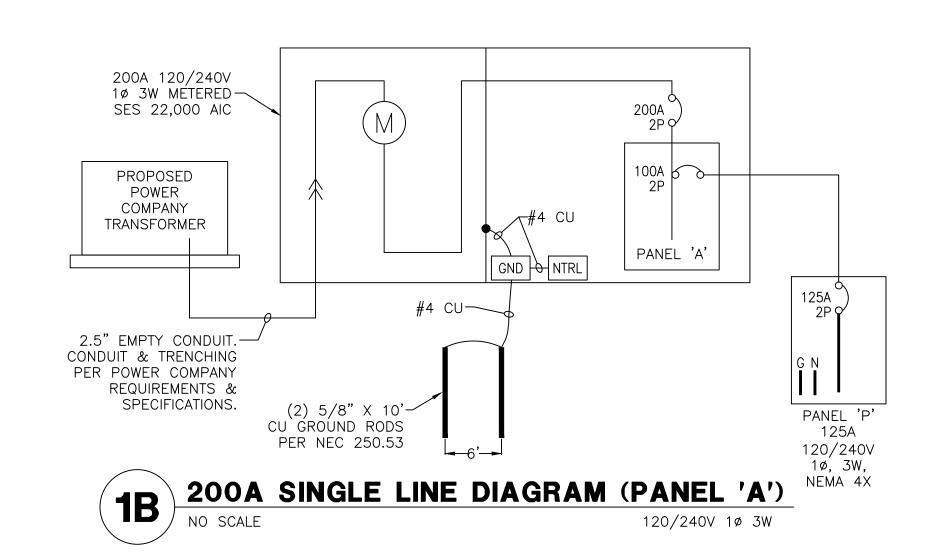
VILL

DRAWING NO:

SE2.3

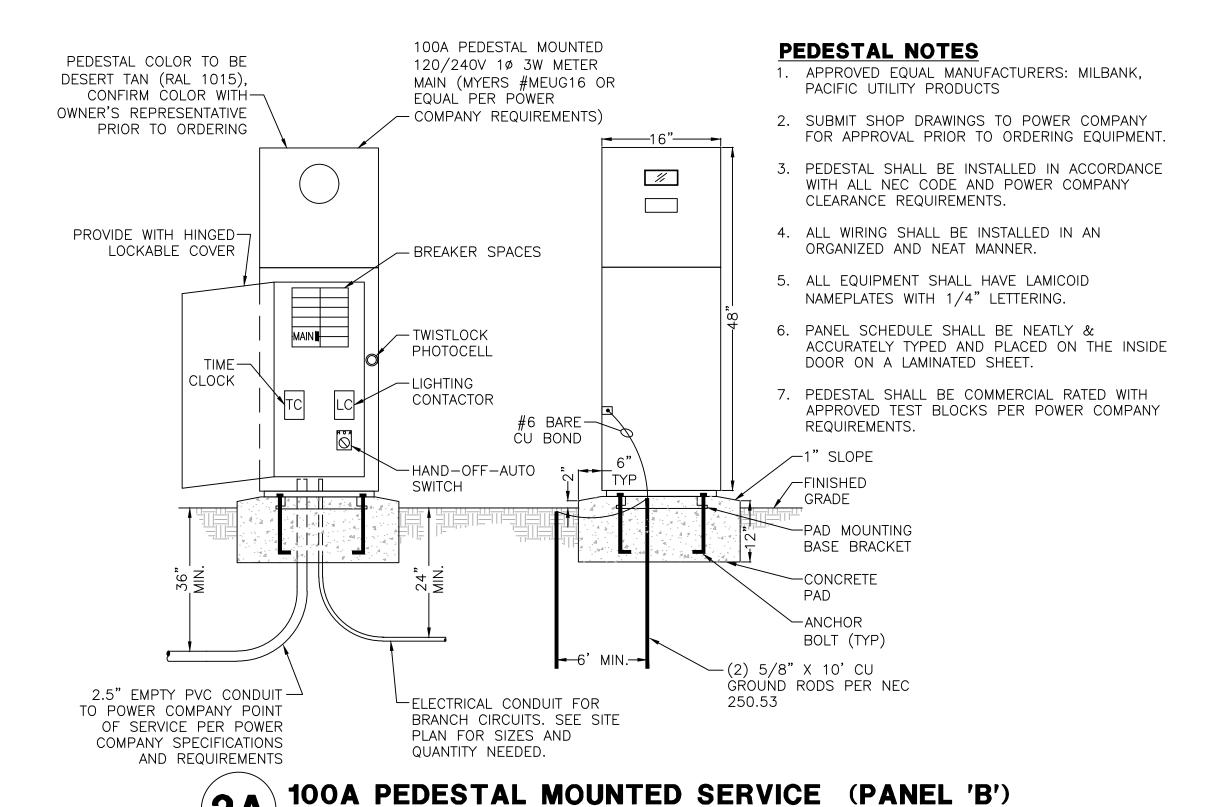
200A PEDESTAL MOUNTED SERVICE (PANEL 'A')

120/240V 1ø 3W

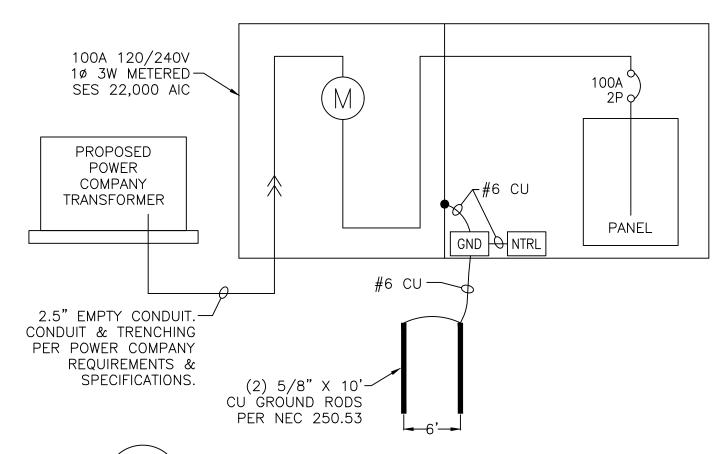


NO SCALE

		PANEL NAME: A	1	20/240V	/, 1ø, 3\	W	200A MAIN BKR			
	LOC	ATION: SEE SITE PLAN		TYPE: F	PLUG-IN		PEDESTAL MTD., NEMA 3R			
CKT NO.	BKR SIZE	DESCRIPTION	LOAD	Aø	Bø	LOAD	DESCRIPTION	BKR SIZE	CKT NO.	
1	20/1	WEST EXIT GATE	1920	2203		283	PICKLEBALL LIGHTS*	20/1	2	
3	20/1	WEST ENTRY GATE	1920		2187	267	POOL LIGHT*	20/1	4	
5	20/1	PARKING LOT LIGHTS*	295	485		190	PLAYGROUND LIGHTS*	20/1	6	
7	125/	DANIEL 'D'	12000		13417	1417	DOLLADDC*	20/	8	
9	/2	PANEL 'P'	12000	13417		1417	- BOLLARDS*	/2	10	
11	20/1	RAMADA LIGHTS*	215		215	0	SPARE	20/1	12	
13	20/1	SOUTH EXIT GATE	1920	1920		0	SPARE	20/1	14	
15	20/1	SOUTH ENTRY GATE	1920		2120	200	LIGHTING CONTROL	20/1	16	
CODE TOTAL VA/Ø				18025	17939		*INDICATES LOAD @ 125%			
CODE TOTAL AMPS/Ø			150.2	149.5		22,000 AIC BREAKERS				



120/240V 1ø 3W



NO SCALE

100A SINGLE LINE DIAGRAM (PANEL 'B') 120/240V 1ø 3W

		PANEL NAME: B	1	20/240\	/, 1ø, 3\	N	100A MAIN BKR			
	LOC	CATION: SEE SITE PLAN	TYPE: PLUG-IN				PEDESTAL MTD., NEMA 3R			
CKT NO.	BKR SIZE	DESCRIPTION	LOAD	Aø	Bø	LOAD	DESCRIPTION	BKR SIZE	CKT NO.	
1	20/1	NORTH EXIT GATE	1920	2110		190	PLAYGROUND LIGHTS*	20/1	2	
3	20/1	SOUTH EXIT GATE	1920		2436	516	PARKING LOT LIGHTS*	20/1	4	
5	20/	DOLLADDC*	578	686		108	RAMADA LIGHTS*	20/1	6	
7	/2	BOLLARDS*	578		578	0	SPARE	20/1	8	
9	20/1	SPARE	0	0		0	SPARE	20/1	10	
11	20/1	SPARE	0		0	0	SPARE	20/1	12	
13	20/1	SPARE	0	0		0	SPARE	20/1	14	
15	20/1	SPARE	0		200	200	LIGHTING CONTROL	20/1	16	
CODE TOTAL VA/Ø			•	2796	3214		*INDICATES LOAD @ 125%			
CODE TOTAL AMPS/Ø				23.3	26.8	22,000 AIC BREAKERS				





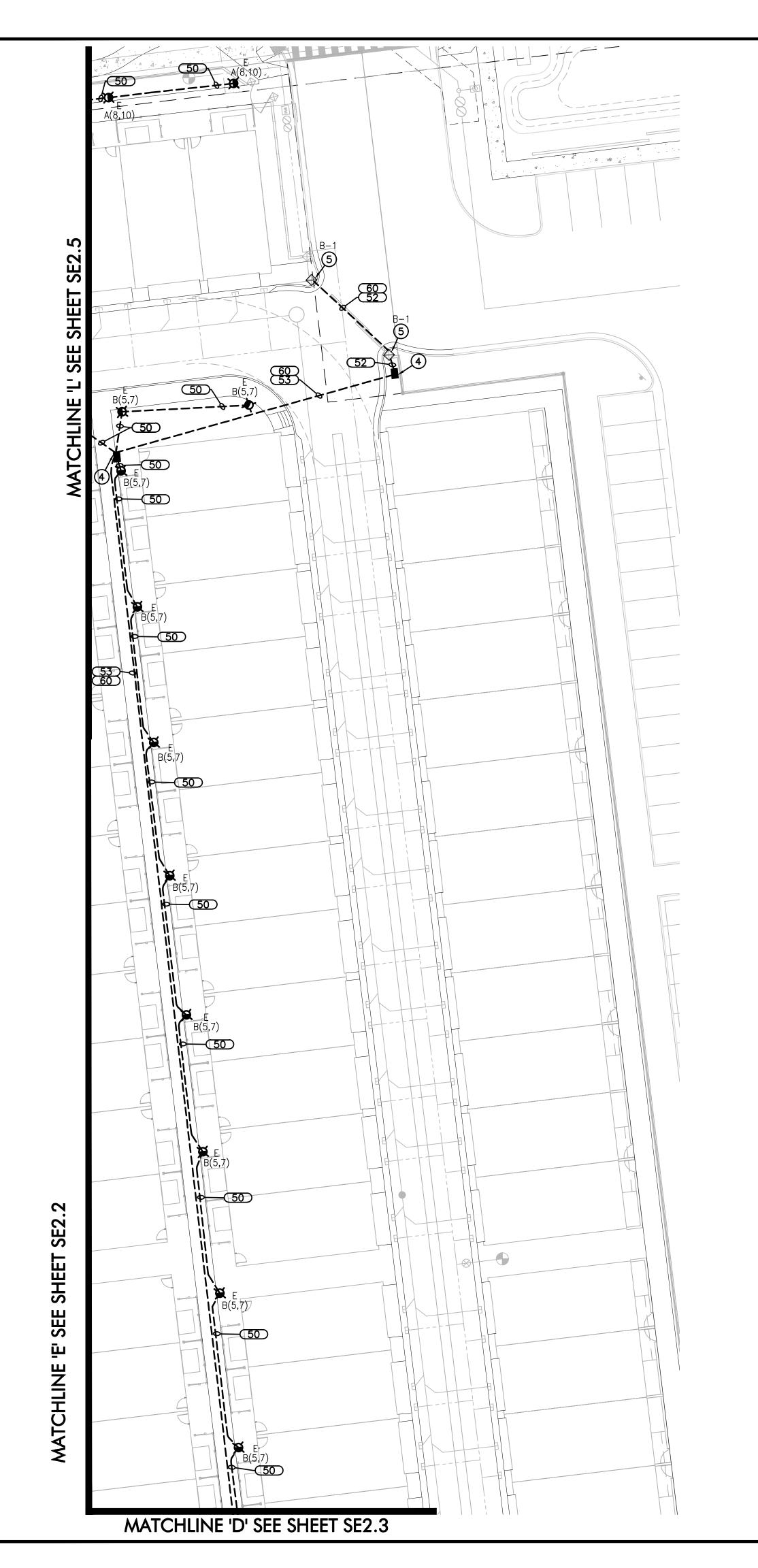
DRAWN BY: XAG CHECKED BY: CMT

PROJECT: TITLE:

AE ARIZONA TONEGA S TRI

VILL

DRAWING NO: **SE3.1**



- 1 2.5" SCH. 40 PVC CONDUIT TO POINT OF SERVICE, CONTRACTOR SHALL VERIFY POINT OF ELECTRIC SERVICE LOCATION AND SPECIFICATIONS WITH POWER CO. PLANS & INSTALL CONDUIT TO THIS LOCATION. POWER CO. PLANS WILL DETERMINE EXACT LOCATION OF CONDUIT AND TAKE PRECEDENCE OVER THESE DRAWINGS.
- (2) 200 AMP, 120/240V, 1ø, 3W, METERED ELECTRIC PEDESTAL, SEE DETAIL 1 ON SE3.1.
- 3 125 AMP, 120/240V, 1ø, 3W, WALL-MOUNTED SUB-PANEL PER BUILDING ELECTRICAL
- (4) #3-1/2 CONCRETE PULL BOX, SEE DETAIL 3 ON SE3.2.
- 5 GATE CONTROLLER. COORDINATE WITH GATE CONTRACTOR FOR EXACT LOCATION AND DETAILS. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR CONDUIT, STUB UPS, CONDUCTORS, SPLICES AND OTHER NECESSARY COMPONENTS FOR A COMPLETE SYSTEM.
- 6 GATE KEYPAD. COORDINATE WITH GATE CONTRACTOR FOR EXACT LOCATION AND DETAILS. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR WIRING.
- (7) 100 AMP, 120/240V, 1ø, 3W, METERED ELECTRIC PEDESTAL, SEE DETAIL 2 ON SE3.1.
- (8) PUSH BUTTON ON LIGHT POLE TO FACE COURT, SEE DETAIL 4 ON SE3.3.
- 9 STUB OUT 5' OF 1" CONDUIT WITH PULL ROPE AS SHOWN ON SITE PLAN, FOR FUTURE USE. CAP CONDUIT AT GRADE AND MARK LOCATION ON AS—BUILT DRAWINGS.

LEGEND

200A 120/240V 10 PEDESTAL

125A 120/240V 10 SUB-PANEL PER BUILDING ELECTRICAL PLANS

ELECTRICAL PLANS

■ NEW PULL BOX

☐ GATE CONTROLLER

□ GATE KEYPAD

NEW UNDERGROUND CONDUIT

A-1 CIRCUIT NUMBER

101) WIRE & CONDUIT TAG, SEE WIRE & CONDUIT TABLE
100A 120/240V 10 PEDESTAL

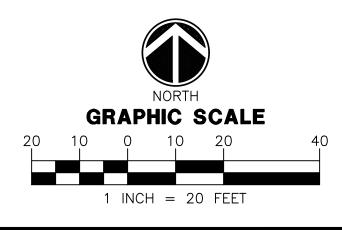
WIRE & CONDUIT TABLE

		IIL Q	CONDOLL	IAD	
CC	NDUIT		WIRE		REMARKS
NO.	SIZE	POWER	GROUND	TYPE*	(CKT #)
50	1"	2-#12	1-#12	CU	TYPICAL
51	1"	2-#10	1-#10	CU	TYPICAL
52	1"	2-#8	1-#8	CU	TYPICAL
53	1"	2-#4	1-#4	CU	TYPICAL
60	1.5"	PULL	ROPE	00	SPARE
61	1.5"	3-#1	1-#6	CU	PANEL 'P'
100	1"	2-#12	1-#12	CU	A-5
100	'	2-#12		CU	A-6
		2-#12		CU	A-11
101	1"	2-#12	1-#12	CU	A-2
101	'	2-#12		CU	PICKLE BALL PB
102	1"	2-#8	1-#8	CU	A-1
102	'	2-#8	' #S	CU	A-3
	1.5"	2-#4	1-#4	CU	A-13
	1.5	2-#4	' π -	CU	A-15
		2-#12		CU	A(8,10)
103	1"	2-#12	1-#12	CU	A-5
103	'	2-#12	' π'Σ	CU	A-11
		2-#12		CU	A(8,10)
104	1"	2-#12	1-#12	CU	A-6
104	'	2-#12		CU	A-11
105	1"	2-#12	1-#12	CU	A-5
103	'	2-#12	——————————————————————————————————————	CU	A-6
		2-#12		CU	A-11
		2-#12		CU	A(8,10)
106	1"	2-#12	1-#12	CU	A-6
100		2-#12	——————————————————————————————————————	CU	A(8,10)
107	1.5"	2-#12	1_#1	CU	A-13
107	1.5	2-#4	1-#4	CU	A-15
108	1.5"	2-#4	1-#4	CU	A-13
100	1.5	2-#4	——————————————————————————————————————	CU	A-15
		2-#4		CU	
109	1"		1-#12	CU	A(8,10) A-5
109	l	2-#12		CU	A-6
200	1.5"	2-#12 2-#4	1-#4	CU	B-3
200	1.5	2-#4		CU	
201	1.5"		1 // 0		B-4
201	1.5	2-#2	1-#2	CU	B-3
202	1.5"	2-#12	1 #2	CU	B-4
202	1.5	2-#2	1-#2	CU	B-3
		2-#12		CU	B-4
207	1"	2-#12	1 //10	CU	B-6
203		2-#12	1-#12	CU	B-4
* TUIC		2-#12	THE CONDUCTOR M	CU	B-6

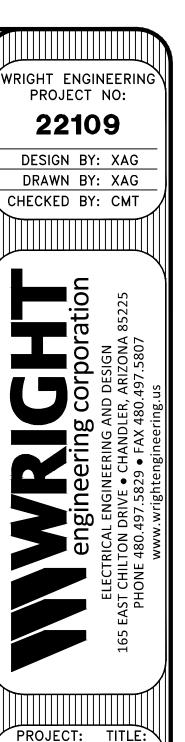
* THIS COLUMN IDENTIFIES THE CONDUCTOR MATERIAL TYPE.

CU = COPPER, AL = ALUMINUM.

	LIGHT FIXTURE SCHEDULE											
YMBOL	LETTER ID	MANUFACTURER	CATALOG NUMBER	FINISH COLOR	VOLTS	LAMP	LUMENS (MIN)	CCT	MOUNTING HEIGHT	DETAIL		
<u></u>	А	COOPER LIGHTING	GAN-SA2C-730-U-T3-BZ-HSS	BRONZE	120	113W LED	13,182	3000K	14'-0"	TYPE 3 AREA LIGHT SEE DETAIL 4 SHEET SE3.3		
→	В	ARCHITECTURAL AREA LIGHTING		BRONZE	120	69.46W LED	8,512	3000K	14'-0"	TYPE 4 PARKING LOT LIGHT SEE DETAIL 6 SHEET SE3.4		
—□ →	С	COOPER LIGHTING	GAN-SA4C-730-U-T4W-BZ	BRONZE	120	213W LED	25,347	3000K	14'-0"	TYPE 4 AREA LIGHT SEE DETAIL 4 SHEET SE3.3		
X	D	LUMINAIRE LIGHTING	SWP1212-NODIM-40W-30K-MVOLT-OP-BRZ	BRONZE	120	43W LED	3,350	3000K	10'-0"	RAMADA LIGHT SEE DETAIL 5 SHEET SE3.3		
Ħ	E	COOPER LIGHTING	BRT6-A3-730-U-T4-42-BZ	BRONZE	120	22W LED	1,786	3000K	3'-6"	BOLLARD SEE DETAIL 7 SHEET SE3.4		







VILLAS AT STONEGA-SITE ELECTRICAL PLA

DATE SUBMITTALS/REVISIONS (DESCRIPTIONS)
JG 2022 100% SUBMITTAL

Signed: 3-31-23

SE2.4
OF 18

- 1) 2.5" SCH. 40 PVC CONDUIT TO POINT OF SERVICE, CONTRACTOR SHALL VERIFY POINT OF ELECTRIC SERVICE LOCATION AND SPECIFICATIONS WITH POWER CO. PLANS & INSTALL CONDUIT TO THIS LOCATION. POWER CO. PLANS WILL DETERMINE EXACT LOCATION OF CONDUIT AND TAKE PRECEDENCE OVER THESE DRAWINGS.
- 2) 200 AMP, 120/240V, 1ø, 3W, METERED ELECTRIC PEDESTAL, SEE DETAIL 1 ON SE3.1.
- 3 125 AMP, 120/240V, 1ø, 3W, WALL-MOUNTED SUB-PANEL PER BUILDING ELECTRICAL PLANS
- (4) #3-1/2 CONCRETE PULL BOX, SEE DETAIL 3 ON SE3.2.
- 5 GATE CONTROLLER. COORDINATE WITH GATE CONTRACTOR FOR EXACT LOCATION AND DETAILS. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR CONDUIT, STUB UPS, CONDUCTORS, SPLICES AND OTHER NECESSARY COMPONENTS FOR A COMPLETE SYSTEM.
- 6 GATE KEYPAD. COORDINATE WITH GATE CONTRACTOR FOR EXACT LOCATION AND DETAILS. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR WIRING.
- 7) 100 AMP, 120/240V, 1ø, 3W, METERED ELECTRIC PEDESTAL, SEE DETAIL 2 ON SE3.1.
- (8) PUSH BUTTON ON LIGHT POLE TO FACE COURT, SEE DETAIL 4 ON SE3.3.
- 9 STUB OUT 5' OF 1" CONDUIT WITH PULL ROPE AS SHOWN ON SITE PLAN, FOR FUTURE USE. CAP CONDUIT AT GRADE AND MARK LOCATION ON AS—BUILT DRAWINGS.

LEGEND

- 200A 120/240V 1ø PEDESTAL
- 125A 120/240V 10 SUB-PANEL PER BUILDING ELECTRICAL PLANS
- NEW PULL BOX
- ☐ GATE CONTROLLER
- □ GATE KEYPAD
- NEW UNDERGROUND CONDUIT
- A-1 CIRCUIT NUMBER
- (101) WIRE & CONDUIT TAG, SEE WIRE & CONDUIT TABLE ■ 100A 120/240V 1ø PEDESTAL

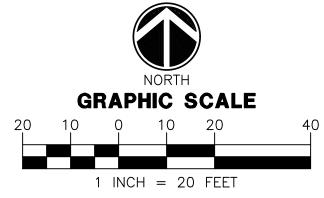
WIRE & CONDUIT TABLE

CC	NDUIT		WIRE		REMARKS
NO.	SIZE	POWER	GROUND	TYPE*	(CKT #)
50	1"	2-#12	1-#12	CU	TYPICAL
51	1"	2-#10	1-#10	CU	TYPICAL
52	1"	2-#8	1-#8	CU	TYPICAL
53	1"	2-#4	1-#4	CU	TYPICAL
60	1.5"	PULL	ROPE		SPARE
61	1.5"	3-#1	1-#6	CU	PANEL 'P'
100	1"	2-#12	1-#12	CU	A-5
		2-#12	-	CU	A-6
		2-#12		CU	A-11
101	1"	2-#12	1-#12	CU	A-2
	'	2-#12	─ │	CU	PICKLE BALL PB
102	1"	2-#8	1-#8	CU	A-1
102	'	2-#8	- $ -$	CU	A-3
	1.5"	2-#4	1-#4	CU	A-13
	1.5	2-#4	─ │ ' <i>"</i> "	CU	A-15
		2-#12		CU	A(8,10)
103	1"	2-#12	1-#12	CU	A-5
103	'	2-#12	— ' ^{-#} ' ²	CU	A-11
		2-#12	\blacksquare	CU	
104	1"		1 // 10	CU	A(8,10) A-6
104	'	2-#12	1-#12		
105	1"	2-#12	1 //10	CU	A-11
105		2-#12	1-#12	CU	A-5
		2-#12		CU	A-6
		2-#12		CU	A-11
100	1"	2-#12	1 // 1/ 0	CU	A(8,10)
106	1	2-#12	1-#12	CU	A-6
407	4 = 22	2-#12		CU	A(8,10)
107	1.5"	2-#4	1-#4	CU	A-13
		2-#4		CU	A-15
108	1.5"	2-#4	1-#4	CU	A-13
		2-#4		CU	A-15
		2-#12		CU	A(8,10)
109	1"	2-#12	1-#12	CU	A-5
		2-#12		CU	A-6
200	1.5"	2-#4	1-#4	CU	B-3
		2-#12		CU	B-4
201	1.5"	2-#2	1-#2	CU	B-3
		2-#12		CU	B-4
202	1.5"	2-#2	1-#2	CU	B-3
		2-#12		CU	B-4
		2-#12		CU	B-6
203	1"	2-#12	1-#12	CU	B-4
		2-#12		CU	B-6

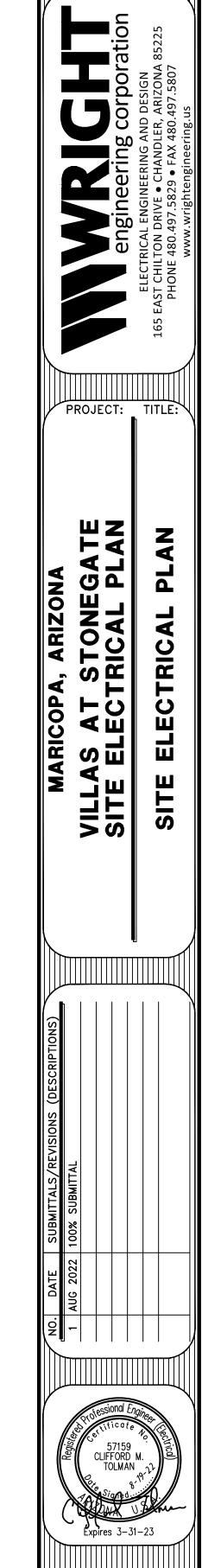
* THIS COLUMN IDENTIFIES THE CONDUCTOR MATERIAL TYPE.

CU = COPPER, AL = ALUMINUM.

	LIGHT FIXTURE SCHEDULE											
SYMBOL	LETTER ID	MANUFACTURER	CATALOG NUMBER	FINISH COLOR	VOLTS	LAMP	LUMENS (MIN)	ССТ	MOUNTING HEIGHT	DETAIL		
• ‡	А	COOPER LIGHTING	GAN-SA2C-730-U-T3-BZ-HSS	BRONZE	120	113W LED	13,182	3000K	14'-0"	TYPE 3 AREA LIGHT SEE DETAIL 4 SHEET SE3.3		
- □	В	ARCHITECTURAL AREA LIGHTING		BRONZE	120	69.46W LED	8,512	3000K	14'-0"	TYPE 4 PARKING LOT LIGHT SEE DETAIL 6 SHEET SE3.4		
⊶ •	С	COOPER LIGHTING	GAN-SA4C-730-U-T4W-BZ	BRONZE	120	213W LED	25,347	3000K	14'-0"	TYPE 4 AREA LIGHT SEE DETAIL 4 SHEET SE3.3		
X	D	LUMINAIRE LIGHTING	SWP1212-NODIM-40W-30K-MVOLT-OP-BRZ	BRONZE	120	43W LED	3,350	3000K	10'-0"	RAMADA LIGHT SEE DETAIL 5 SHEET SE3.3		
Ħ	E	COOPER LIGHTING	BRT6-A3-730-U-T4-42-BZ	BRONZE	120	22W LED	1,786	3000K	3'-6"	BOLLARD SEE DETAIL 7 SHEET SE3.4		







DRAWING NO:

SE2.5

OF 18

WRIGHT ENGINEERING PROJECT NO:

22109

DESIGN BY: XAG DRAWN BY: XAG CHECKED BY: CMT

- 1 2.5" SCH. 40 PVC CONDUIT TO POINT OF SERVICE, CONTRACTOR SHALL VERIFY POINT OF ELECTRIC SERVICE LOCATION AND SPECIFICATIONS WITH POWER CO. PLANS & INSTALL CONDUIT TO THIS LOCATION. POWER CO. PLANS WILL DETERMINE EXACT LOCATION OF CONDUIT AND TAKE PRECEDENCE OVER THESE DRAWINGS.
- (2) 200 AMP, 120/240V, 1ø, 3W, METERED ELECTRIC PEDESTAL, SEE DETAIL 1 ON SE3.1.
- 3 125 AMP, 120/240V, 1ø, 3W, WALL-MOUNTED SUB-PANEL PER BUILDING ELECTRICAL
- 4 #3-1/2 CONCRETE PULL BOX, SEE DETAIL 3 ON SE3.2.
- GATE CONTROLLER. COORDINATE WITH GATE CONTRACTOR FOR EXACT LOCATION AND DETAILS. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR CONDUIT, STUB UPS, CONDUCTORS, SPLICES AND OTHER NECESSARY COMPONENTS FOR A COMPLETE SYSTEM.
- 6 GATE KEYPAD. COORDINATE WITH GATE CONTRACTOR FOR EXACT LOCATION AND DETAILS. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR WIRING.
- (7) 100 AMP, 120/240V, 1ø, 3W, METERED ELECTRIC PEDESTAL, SEE DETAIL 2 ON SE3.1.
- (8) PUSH BUTTON ON LIGHT POLE TO FACE COURT, SEE DETAIL 4 ON SE3.3.
- 9 STUB OUT 5' OF 1" CONDUIT WITH PULL ROPE AS SHOWN ON SITE PLAN, FOR FUTURE USE. CAP CONDUIT AT GRADE AND MARK LOCATION ON AS—BUILT DRAWINGS.

LEGEND

200A 120/240V 10 PEDESTAL

125A 120/240V 10 SUB-PANEL PER BUILDING ELECTRICAL PLANS

■ NEW PULL BOX

☐ GATE CONTROLLER

☐ GATE KEYPAD

NEW UNDERGROUND CONDUIT A-1 CIRCUIT NUMBER

(101) WIRE & CONDUIT TAG, SEE WIRE & CONDUIT TABLE

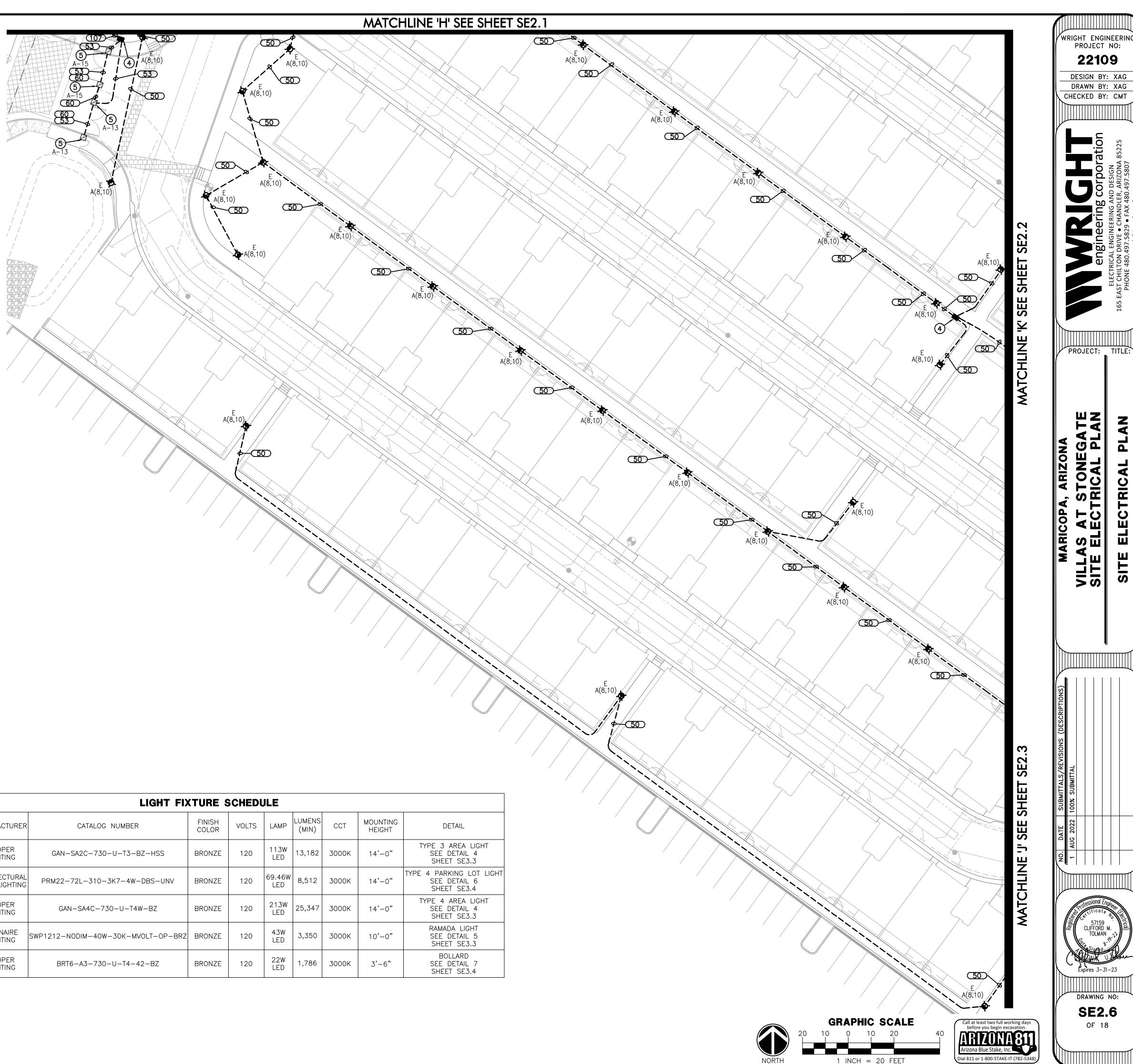
100A 120/240V 10 PEDESTAL

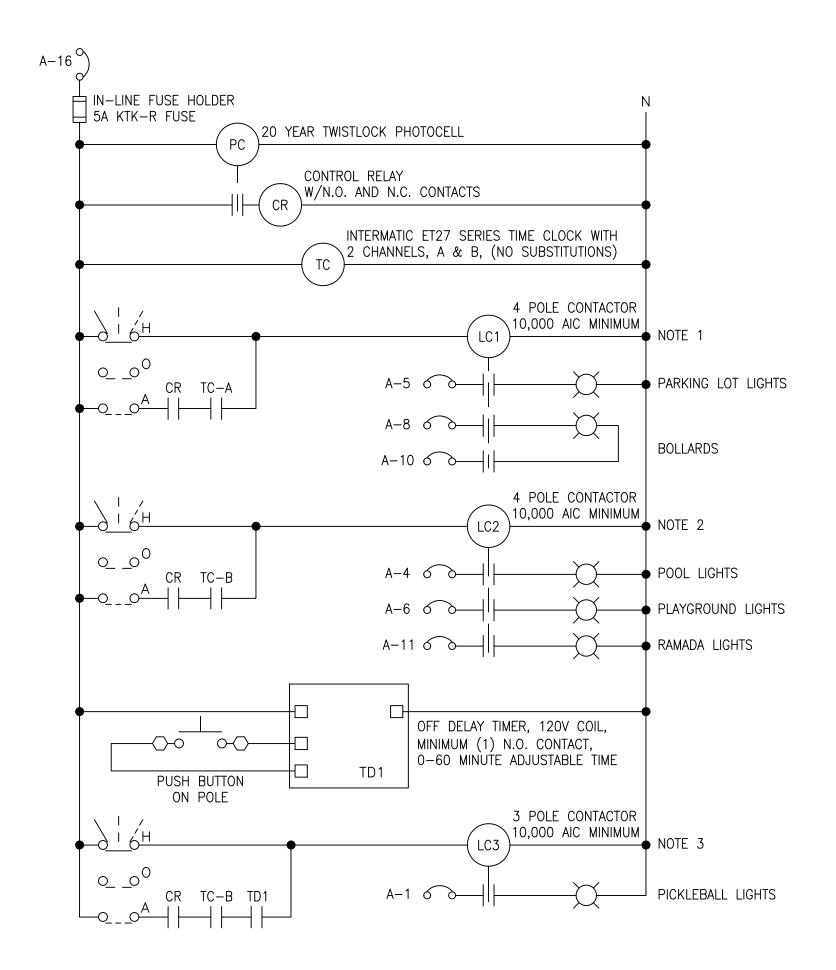
WIRE & CONDUIT TABLE

		· · · · ·	<u> </u>		<u> </u>
CC	DNDUIT		WIRE		REMARKS
NO.	SIZE	POWER	GROUND	TYPE*	(CKT #)
50	1"	2-#12	1-#12	CU	TYPICAL
51	1"	2-#10	1-#10	CU	TYPICAL
52	1"	2-#8	1-#8	CU	TYPICAL
53	1"	2-#4	1-#4	CU	TYPICAL
60	1.5"	PULL	ROPE		SPARE
61	1.5"	3-#1	1-#6	CU	PANEL 'P'
100	1"	2-#12	1-#12	CU	A-5
		2-#12		CU	A-6
l		2-#12		CU	A-11
101	1"	2-#12	1-#12	CU	A-2
		2-#12		CU	PICKLE BALL PB
102	1"	2-#8	1-#8	CU	A-1
		2-#8		CU	A-3
	1.5"	2-#4	1-#4	CU	A-13
		2-#4		CU	A-15
		2-#12		CU	A(8,10)
103	1"	2-#12	1-#12	CU	A-5
		2-#12		CU	A-11
		2-#12		CU	A(8,10)
104	1"	2-#12	1-#12	CU	A-6
		2-#12		CU	A-11
105	1"	2-#12	1-#12	CU	A-5
		2-#12		CU	A-6
		2-#12		CU	A-11
		2-#12		CU	A(8,10)
106	1"	2-#12	1-#12	CU	A-6
		2-#12		CU	A(8,10)
107	1.5"	2-#4	1-#4	CU	A-13
		2-#4		CU	A-15
108	1.5"	2-#4	1-#4	CU	A-13
		2-#4		CU	A-15
		2-#12		CU	A(8,10)
109	1"	2-#12	1-#12	CU	A-5
		2-#12		CU	A-6
200	1.5"	2-#4	1-#4	CU	B-3
		2-#12	"	CU	B-4
201	1.5"	2-#2	1-#2	CU	B-3
		2-#12		CU	B-4
202	1.5"	2-#2	1-#2	CU	B-3
		2-#12	"	CU	B-4
		2-#12		CU	B-6
203	1"	2-#12	1-#12	CU	B-4
ı		2-#12	"	CU	B-6
		1 " -	1		<u> </u>

* THIS COLUMN IDENTIFIES THE CONDUCTOR MATERIAL TYPE. CU = COPPER, AL = ALUMINUM.

LIGHT FIXTURE SCHEDULE LUMENS MOUNTING HEIGHT FINISH COLOR VOLTS LAMP CATALOG NUMBER DETAIL TYPE 3 AREA LIGHT 113W LED COOPER LIGHTING |13,182 | 3000K SEE DETAIL 4 SHEET SE3.3 GAN-SA2C-730-U-T3-BZ-HSS BRONZE 120 14'-0" ARCHITECTURAL AREA LIGHTING 69.46W 8,512 3000K SEE DETAIL 6 SHEET SE3.4 - □→ PRM22-72L-310-3K7-4W-DBS-UNV BRONZE TYPE 4 AREA LIGHT COOPER LIGHTING 213W 25,347 3000K **──I** BRONZE 120 14'-0" SEE DETAIL 4 GAN-SA4C-730-U-T4W-BZ SHEET SE3.3 RAMADA LIGHT 43W LED X 3,350 3000K SEE DETAIL 5 SWP1212-NODIM-40W-30K-MVOLT-OP-BRZ BRONZE 120 LIGHTING SHEET SE3.3 COOPER LIGHTING

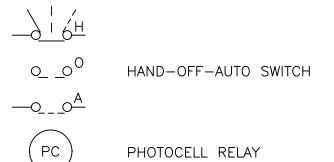




LIGHTING CONTROL SCHEMATIC (PANEL 'A')

NO SCALE





CONTROL RELAY

TIME CLOCK

TIME DELAY RELAY

NORMALLY OPEN CONTACT CIRCUIT BREAKER

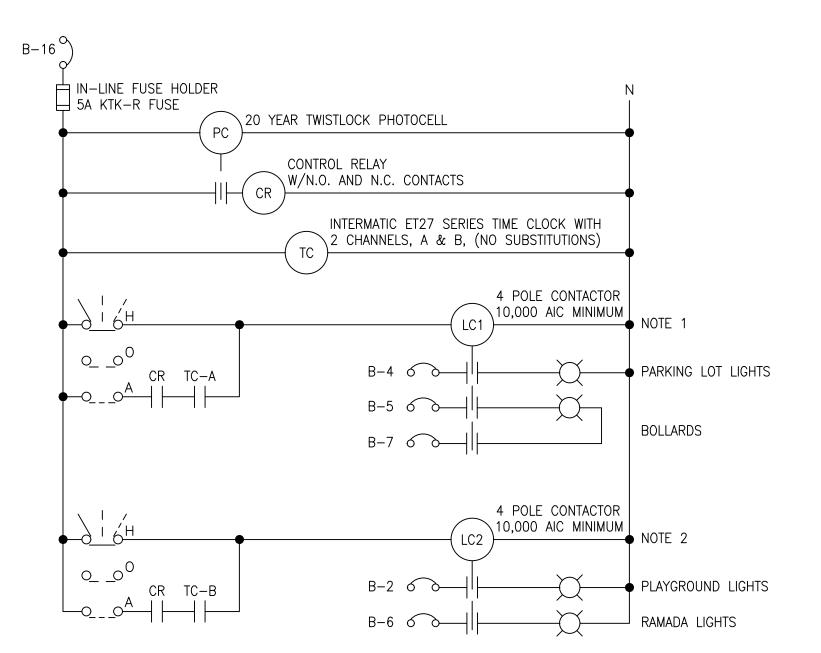
LIGHTING CONTACTOR

REMOTE CONNECTION POINT

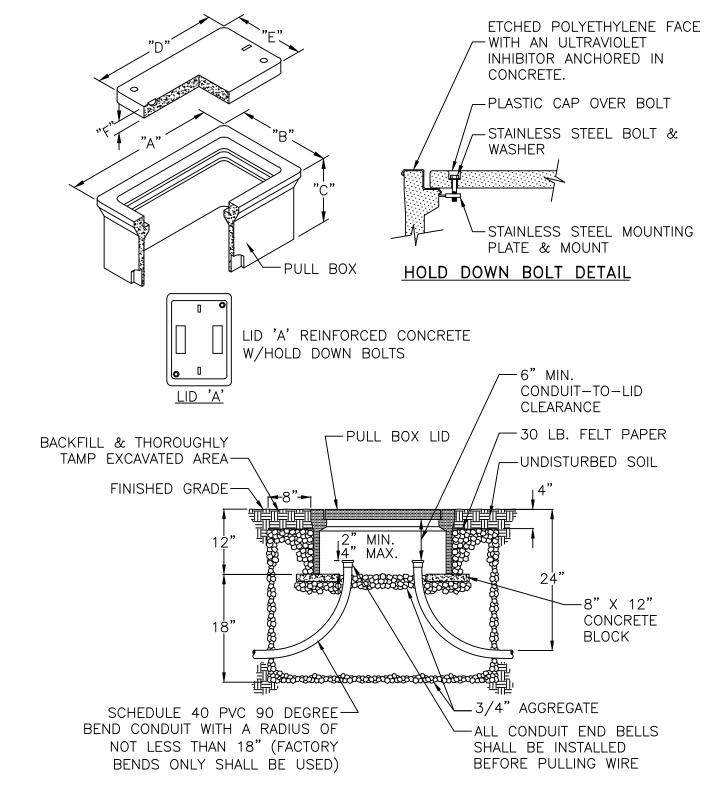
DEVICE CONNECTION POINT

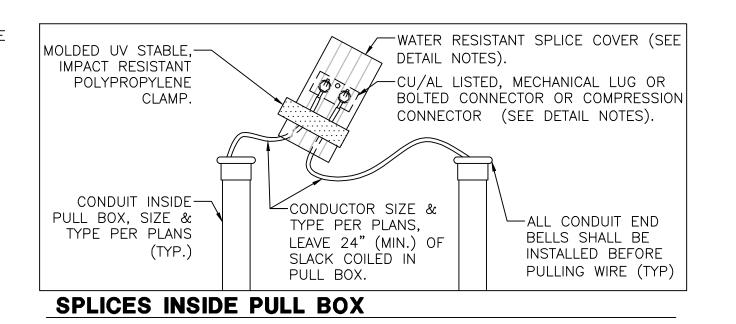
CONTROLLER NOTES

- 1. THIS CIRCUIT TO BE ACTIVATED FROM DUSK TO DAWN.
- 2. THIS CIRCUIT TO BE ACTIVATED AT DUSK AND SHUT OFF AT 10:30 PM.
- 3. THIS CIRCUIT TO BE ACTIVATED VIA POLE MOUNTED PUSH BUTTON. ONCE ACTIVATED CIRCUIT WILL BE ON UNTIL TIMER EXPIRES. CIRCUIT CAN THEN BE REACTIVATED WITH PUSH BUTTON. CIRCUIT WILL BE AVAILABLE FOR USE FROM DUSK TO 10:30 PM.









DETAIL NOTES:

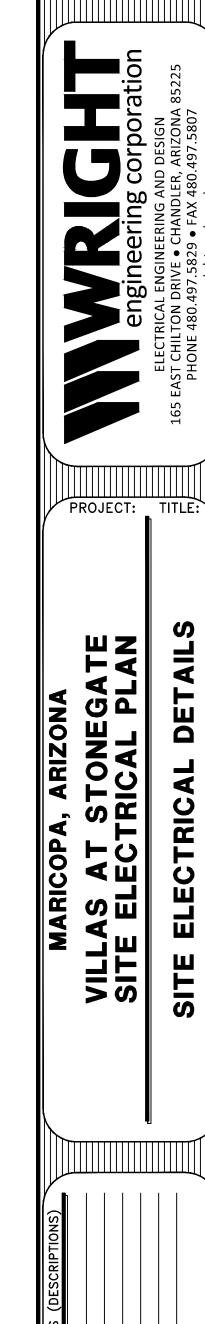
1. THE PULL BOX SHALL BE MADE OF A HIGH DENSITY REINFORCED CONCRETE MATERIAL WITH END & SIDE KNOCKOUTS, & NON-SETTLING SHOULDERS TO MAINTAIN GRADE, MANUFACTURED WITH APPROXIMATE DIMENSIONS AS SHOWN.

- 2. STEEL REINFORCEMENT SHALL BE AS REGULARLY USED IN STANDARD PRODUCTS OF THE RESPECTIVE MANUFACTURER.
- 3. COVER LETTERING SHALL BE 1" LETTERS CAST IN STANDARD MARKINGS: "ELECTRIC" OR "HIGH VOLTAGE" OR "COMMUNICATIONS". AS REQUIRED.
- 4. THE PULL BOX SHALL HAVE AN ETCHED POLYETHYLENE FACE WITH AN ULTRAVIOLET INHIBITOR ANCHORED IN CONCRETE.
- 5. ALL CABLE & CONDUCTOR SPLICES MADE USING CU/AL LISTED, MECHANICAL LUG OR BOLTED CONNECTOR OR COMPRESSION CONNECTOR, (TYCO ELECTRONICS, NSI INDUSTRIES, ILSCO OR APPROVED EQUAL). CONNECTION TO BE INSULATED & MADE WATER RESISTANT WITH TYCO ELECTRONICS GELCAP-SL, NSI INDUSTRIES ESSLK-2/0 OR 3M SCOTCHCAST SPLICE KIT 85 SERIES.

DATA TABLE									
PULLBOX TYPE	PULLBOX LENGTH	PULLBOX WIDTH	PULLBOX HEIGHT	LID LENGTH	LID WIDTH	LID HEIGHT			
	"A"	"B"	"C"	"D"	"E"	"F"			
#3-1/2	19-3/4"	14-1/4"	12"	15-1/2"	10"	1-3/4"			
#5	25-1/8"	15-5/8"	12"	20-3/4"	10-5/8"	2"			
#7	35"	22"	12"	30-1/2"	17-1/2"	2"			

PULL BOX INSTALLATION NO SCALE





WRIGHT ENGINEERING PROJECT NO:

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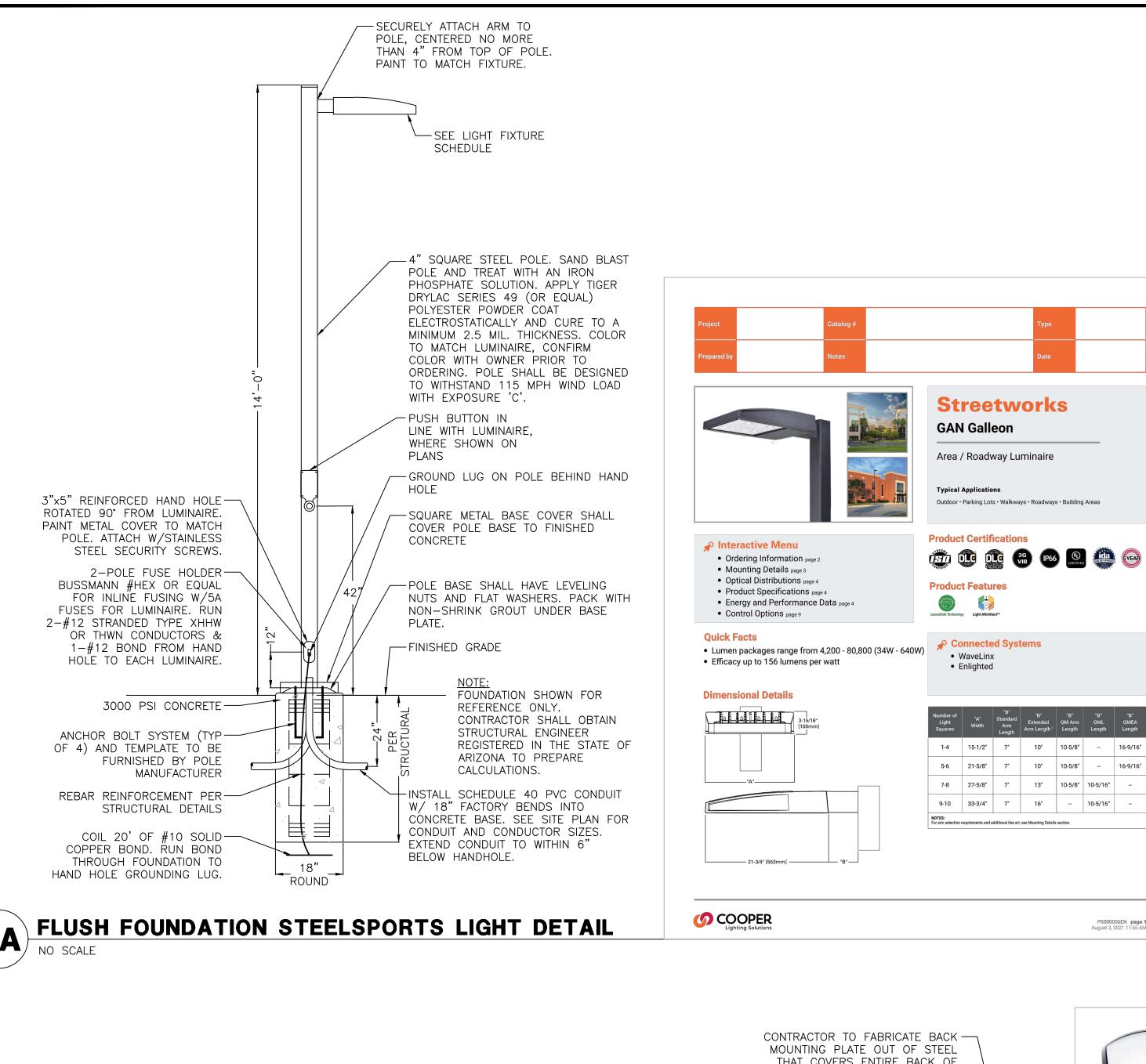
DESIGN BY: XAG

DRAWN BY: XAG

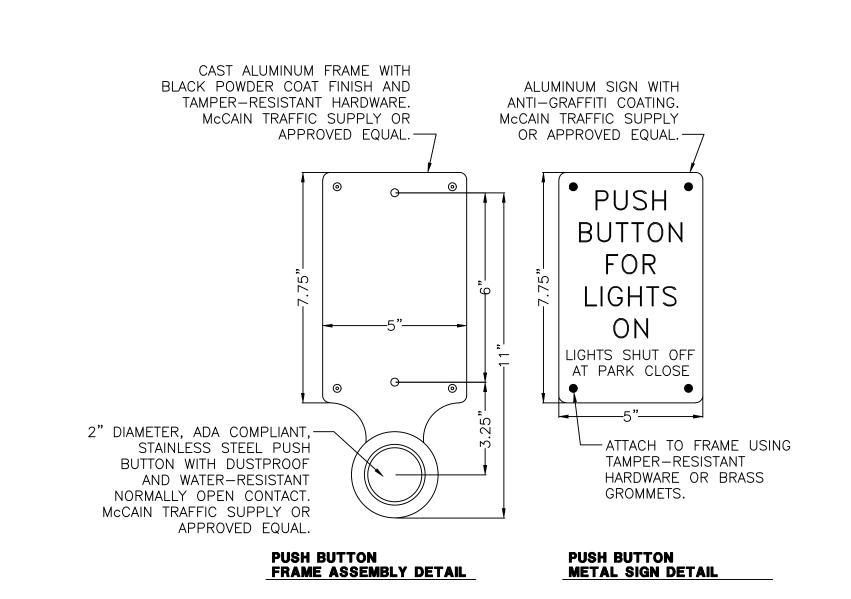
CHECKED BY: CMT

DRAWING NO:

SE3.2 OF 18



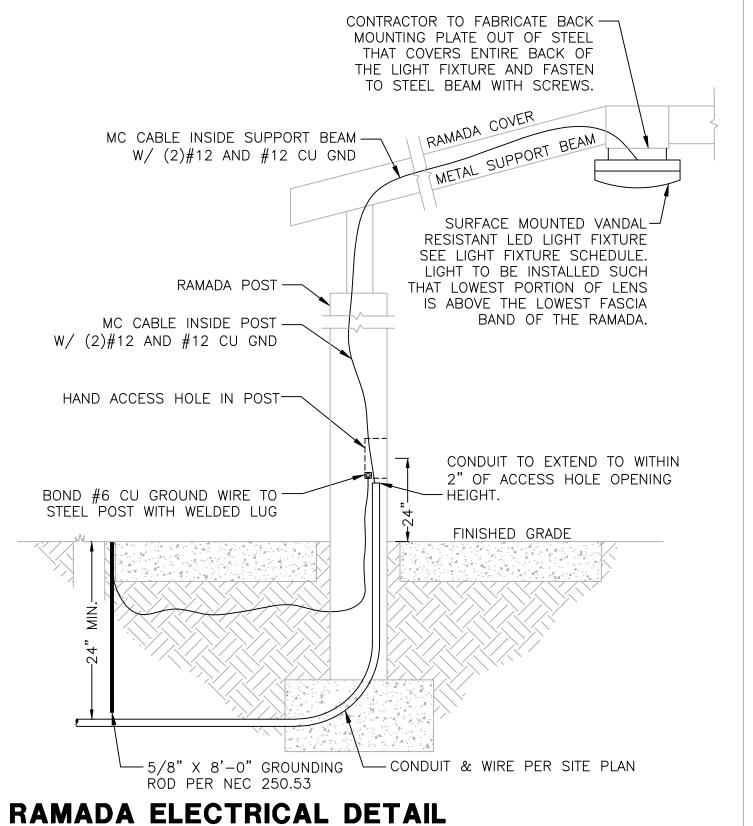
NO SCALE

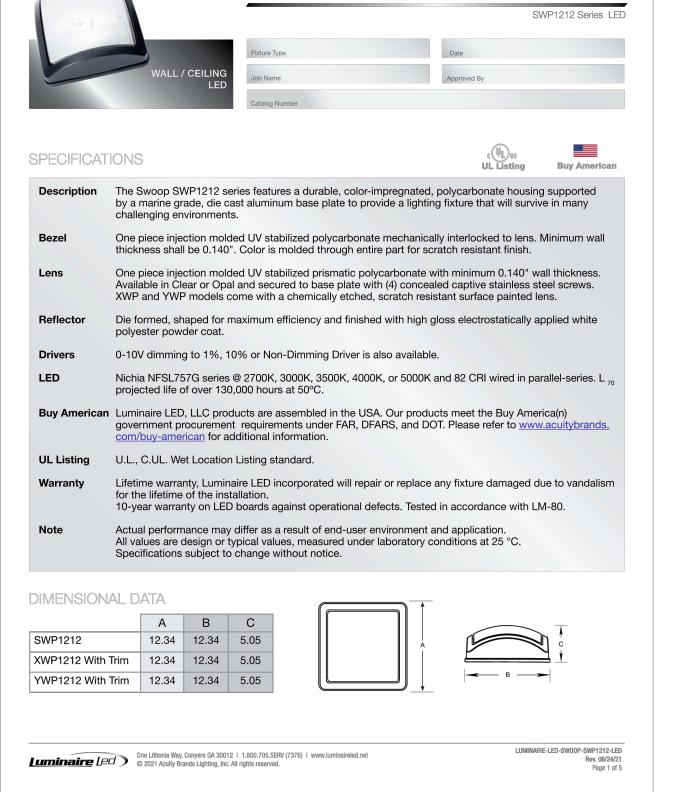


4B PUSH BUTTON DETAIL

NO SCALE

Vandal Resistant





SWOOP **SWP1212**

Call at least two full working days before you begin excavation.

ARZORASI

Arizona Blue Stake, Inc.

Dial 811 or 1-800-STAKE-IT (782-5348)

DRAWING NO:

OF 18

PROJECT: TITLE: H A ARIZONA TONEGA S. TR VILL SITE

WRIGHT ENGINEERING

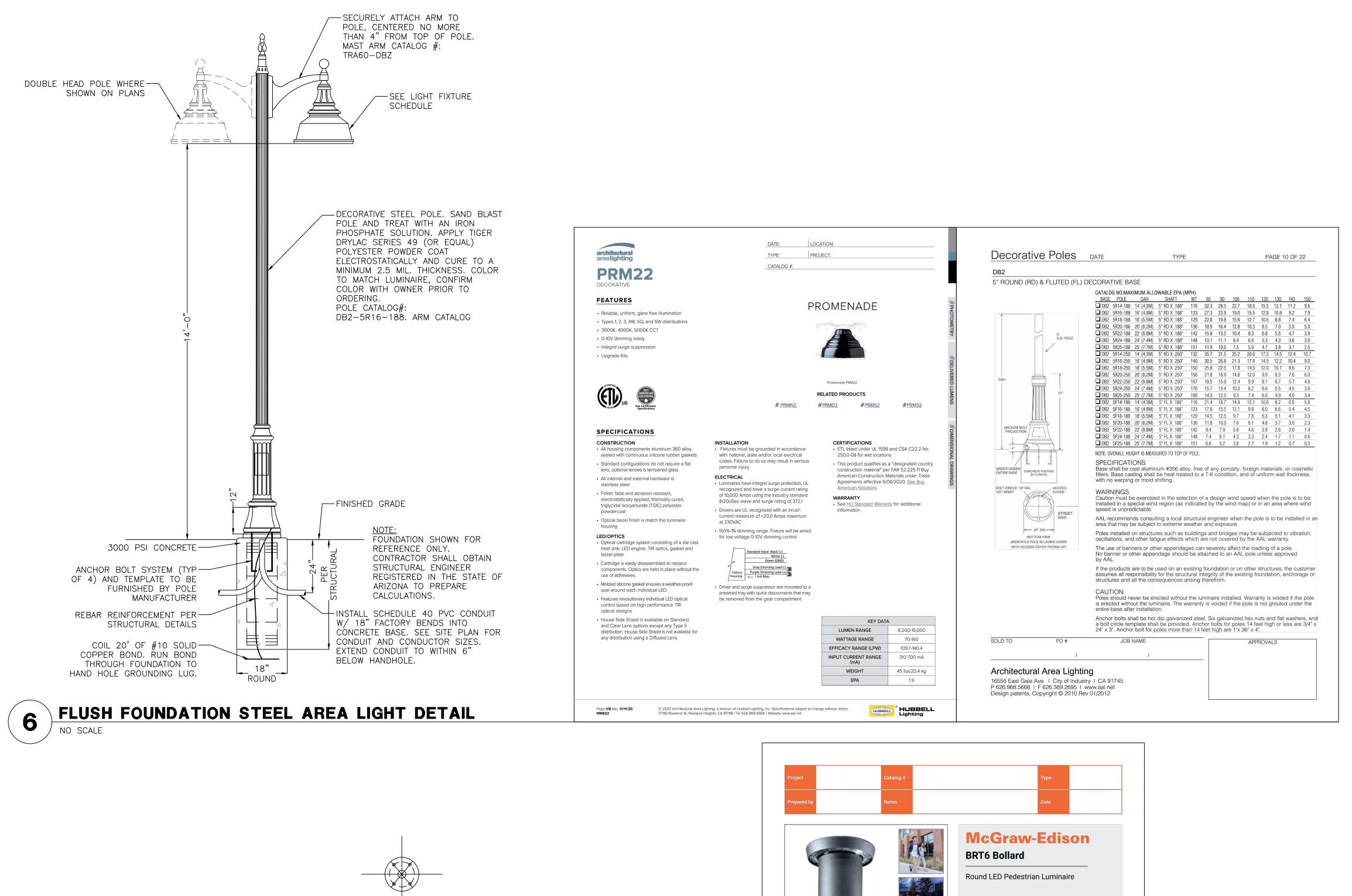
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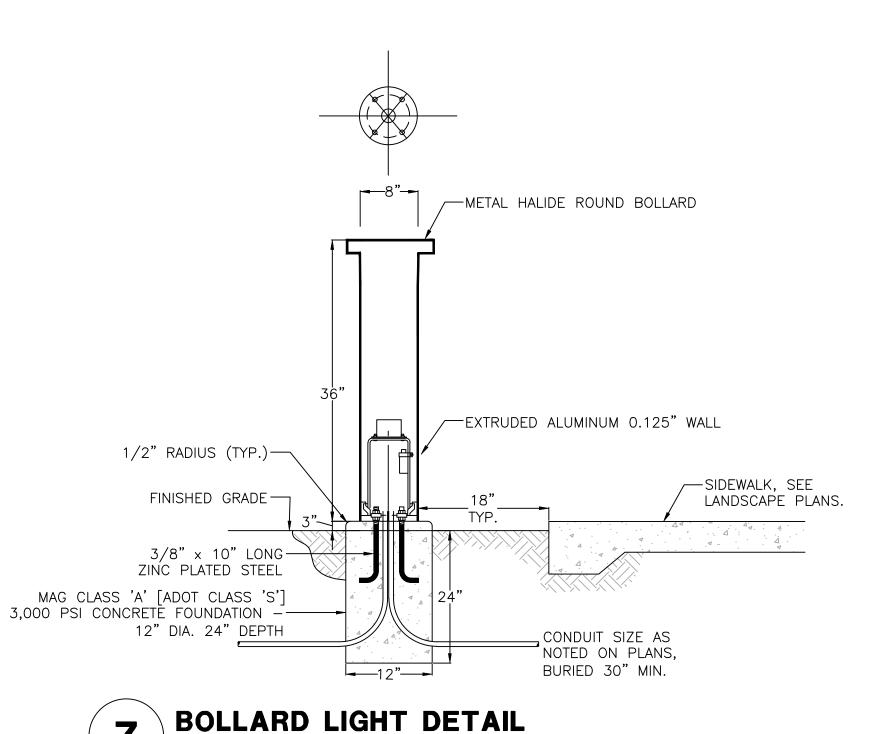
22109

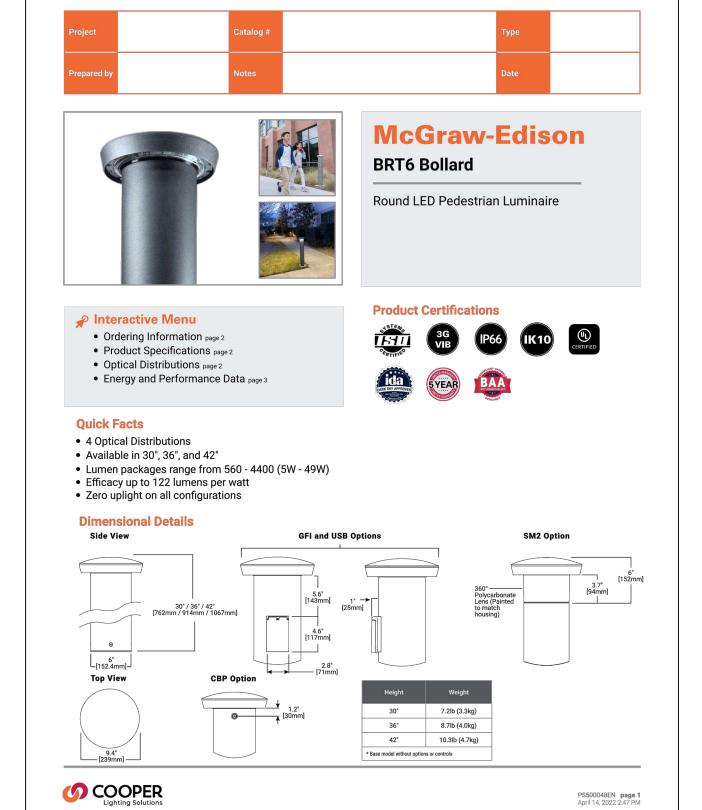
DESIGN BY: XAG
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PROJECT: TITLE:

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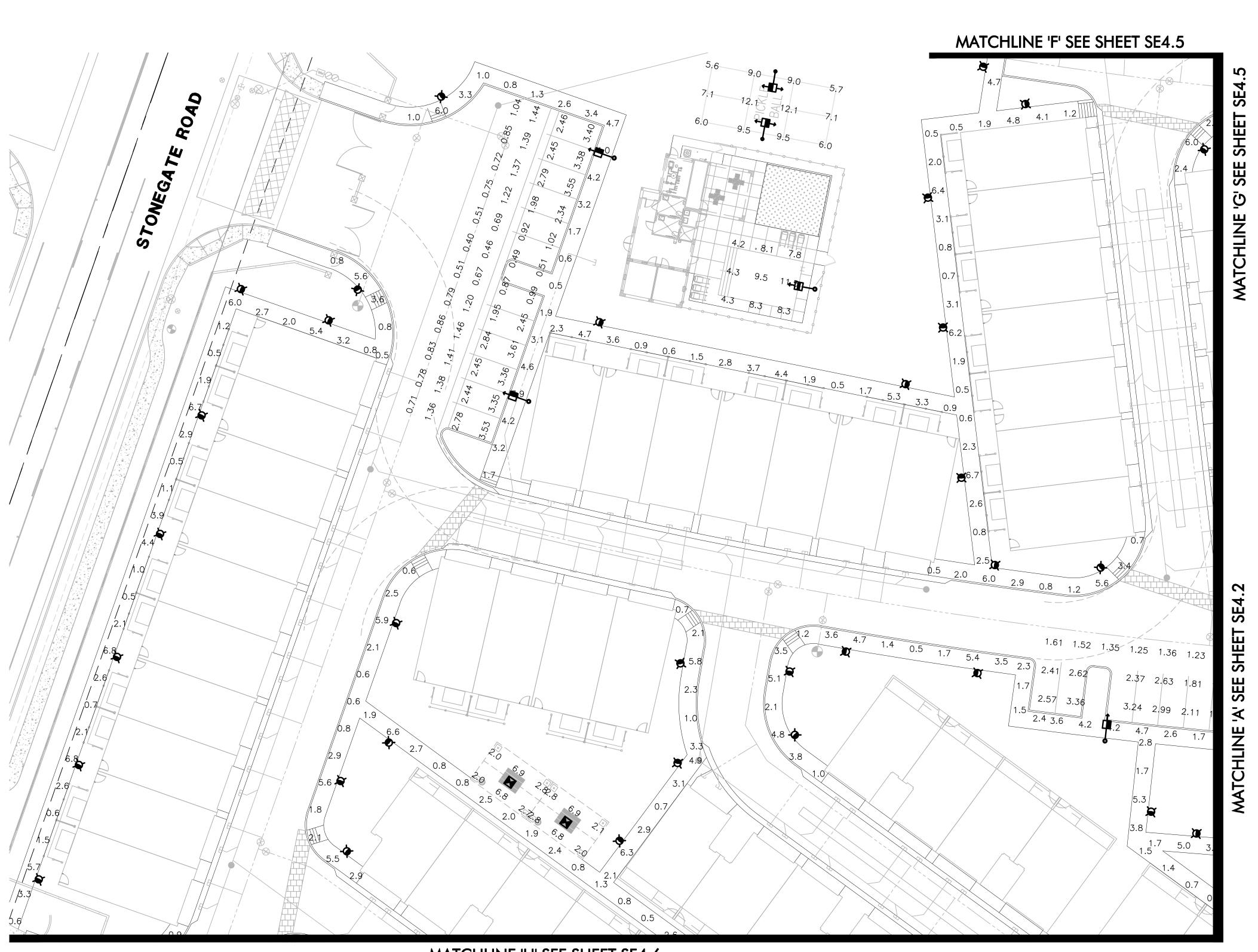
GA PL

S TRI

VILL

DRAWING NO:

SE3.4



MATCHLINE 'H' SEE SHEET SE4.6

PHOTOMETRIC RESULTS

Parking Lot
391 points
HORIZONTAL FOOTCANDLES
Average 2.04
Maximum 4.34
Minimum 0.36
Avg:Min 5.66
Max:Min 12.06
Coef Var 0.48 Playground 35 points HORIZONTAL FOOTCANDLES Average Maximum Minimum Avg:Min Max:Min Coef Var Pickle Ball Court 12 points at z=0, sp 1ft by 10ft HORIZONTAL FOOTCANDLES Minimum Avg:Min Max:Min Coef Var UnifGrad Pool 9 points at z=0, sp 10ft by 10ft HORIZONTAL FOOTCANDLES Average Maximum 11.5 4.2 1.75 2.74 Minimum Avg:Min Max:Min Coef Var UnifGrad 0.33 Ramada 36 points HORIZONTAL FOOTCANDLES 4.0 7.6 1.9 2.10 4.00 0.55 Average Maximum Minimum Avg:Min Max:Min Coef Var Property Line 392 points HORIZONTAL FOOTCANDLES Average Maximum Minimum Avg:Min Max:Min Coef Var 2.94 Pathway 757 points HORIZONTAL FOOTCANDLES 2.6 6.8 0.5 5.23 13.60 0.72 Average Maximum Minimum Avg:Min Max:Min

PHOTOMETRIC LEGEND

Coef Var

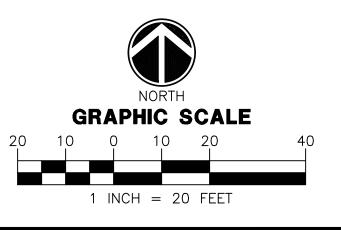
T3 Area Light candela file 'GAN-SA2C-730-U-T3-HSS.ies' 32 lamp(s) per luminaire, photometry is absolute Light Loss Factor = 0.910, watts per luminaire = 113 mounting height= 14 ft number locations= 2, number luminaires= 2 kw all locations= 0.2

Ramada Light candela file 'SWP1212_40W_40K_0P.ies' 120 lamp(s) per luminaire, photometry is absolute Light Loss Factor = 0.910, watts per luminaire = 43 mounting height= 10 ft number locations= 6, number luminaires= 6 kw all locations= 0.3

T4 Parking Lot Light
' candela file 'PRM22-72L-310-3K7-4W.ies'
1 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.910, watts per luminaire = 70 mounting height= 14 ft number locations= 21, number luminaires= 21 kw all locations= 1.5

T4 Area Light candela file 'GALN-SA4C-730-U-T4W_25347 lumens (1).ies' 64 lamp(s) per luminaire, photometry is absolute Light Loss Factor = 0.910, watts per luminaire = 213 mounting height= 14 ft number locations= 1, number luminaires= 1 kw all locations= 0.2

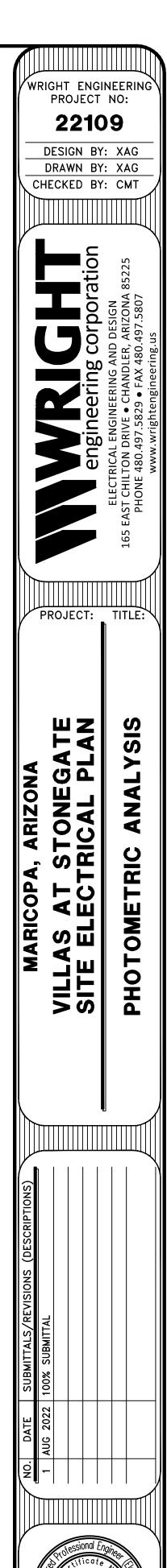
BOLLARD candela file 'BRT6-A4-730-U-T3-XX-BK.ies' 8 lamp(s) per luminaire, photometry is absolute Light Loss Factor = 0.910, watts per luminaire = 22 mounting height= 3.5 ft number locations= 147, number luminaires= 147 kw all locations= 3.2

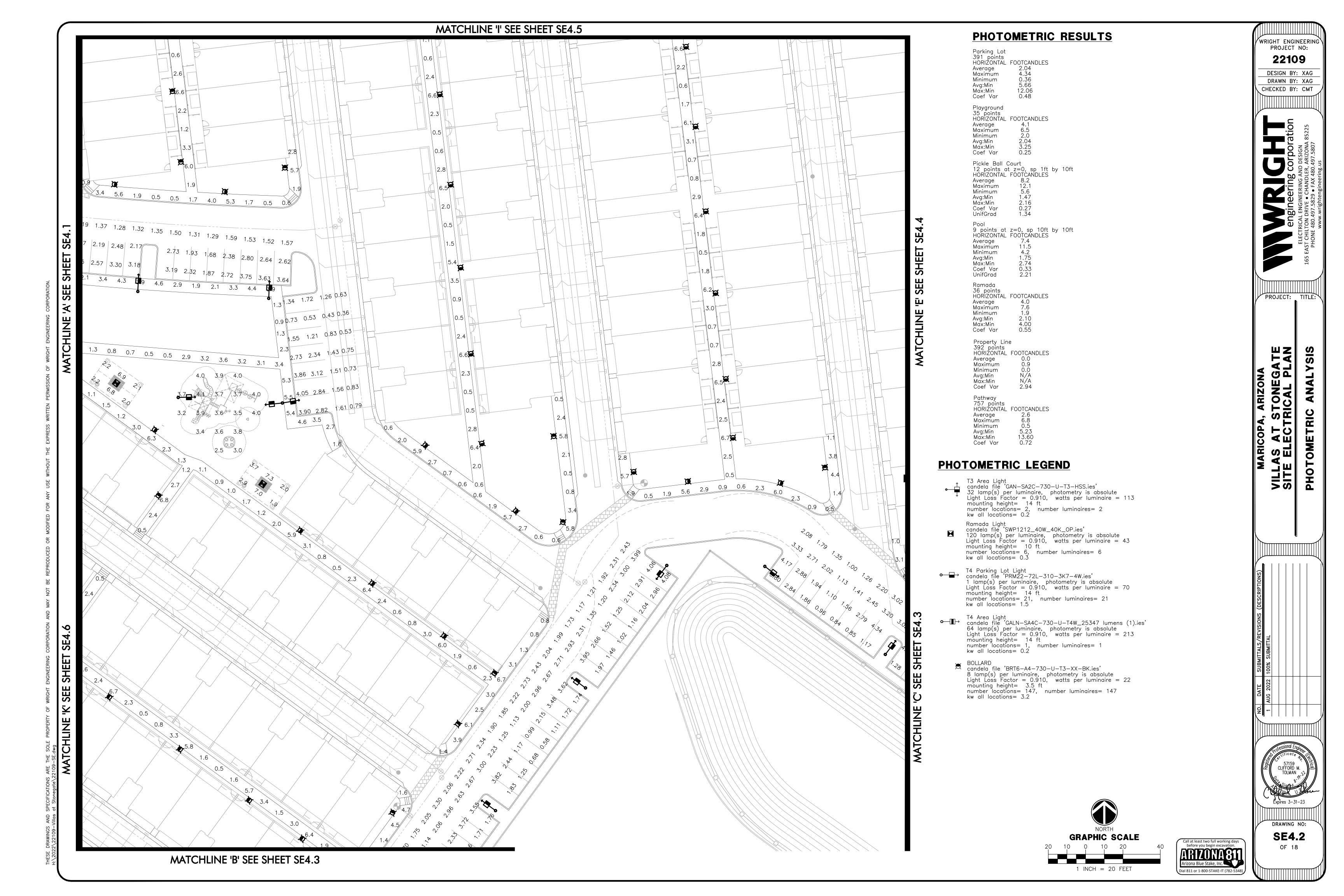




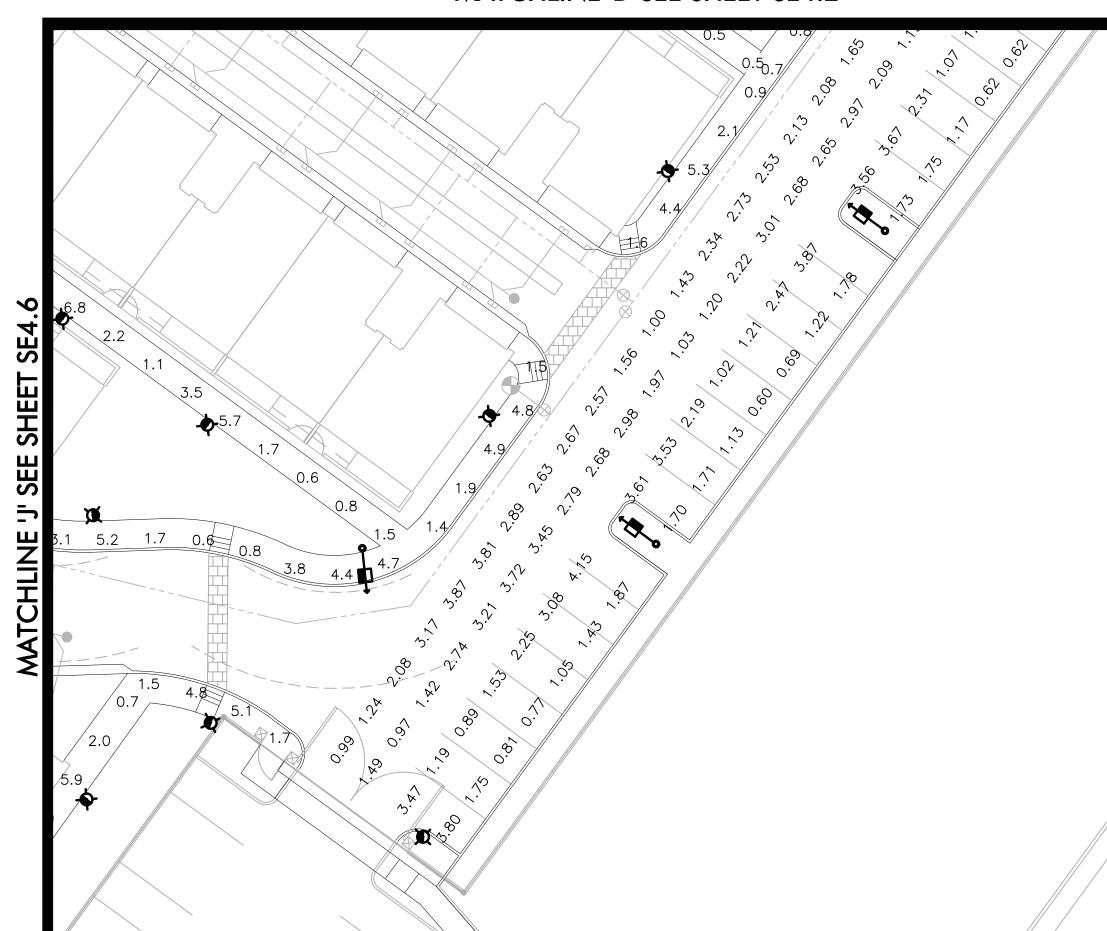
DRAWING NO:

SE4.1





MATCHLINE 'B' SEE SHEET SE4.2

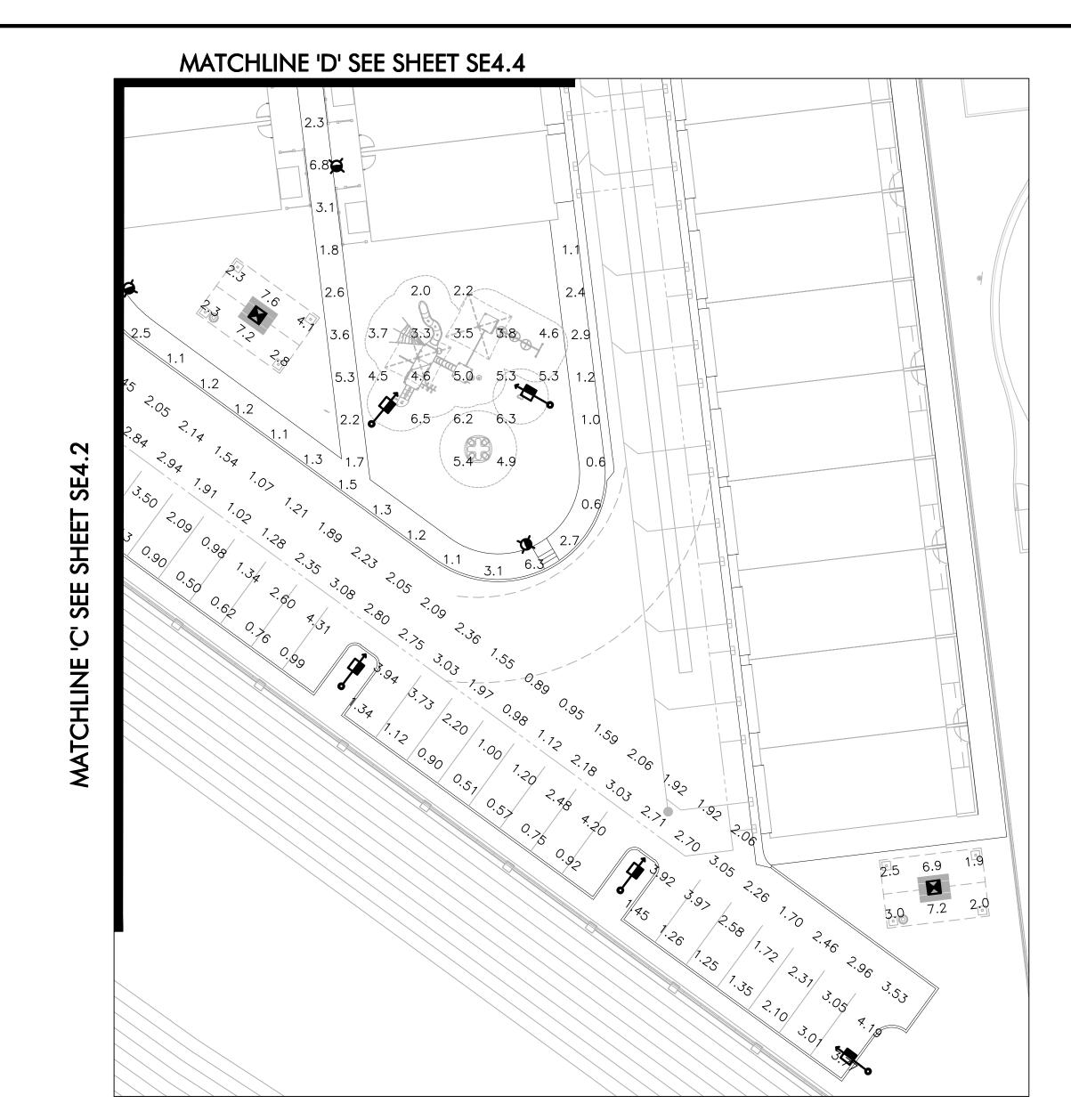


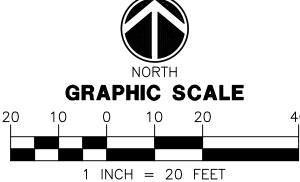
PHOTOMETRIC LEGEND

- T3 Area Light candela file 'GAN-SA2C-730-U-T3-HSS.ies' 32 lamp(s) per luminaire, photometry is absolute Light Loss Factor = 0.910, watts per luminaire = 113 mounting height= 14 ft number locations= 2, number luminaires= 2 kw all locations= 0.2
- Ramada Light
 candela file 'SWP1212_40W_40K_0P.ies'
 120 lamp(s) per luminaire, photometry is absolute
 Light Loss Factor = 0.910, watts per luminaire = 43
 mounting height= 10 ft
 number locations= 6, number luminaires= 6
 kw all locations= 0.3
- T4 Parking Lot Light candela file 'PRM22-72L-310-3K7-4W.ies'
 1 lamp(s) per luminaire, photometry is absolute Light Loss Factor = 0.910, watts per luminaire = 70 mounting height= 14 ft number locations= 21, number luminaires= 21 kw all locations= 1.5
- T4 Area Light candela file 'GALN-SA4C-730-U-T4W_25347 lumens (1).ies' 64 lamp(s) per luminaire, photometry is absolute Light Loss Factor = 0.910, watts per luminaire = 213 mounting height= 14 ft number locations= 1, number luminaires= 1 kw all locations= 0.2
 - BOLLARD candela file 'BRT6-A4-730-U-T3-XX-BK.ies' 8 lamp(s) per luminaire, photometry is absolute Light Loss Factor = 0.910, watts per luminaire = 22 mounting height= 3.5 ft number locations= 147, number luminaires= 147 kw all locations= 3.2

PHOTOMETRIC RESULTS

391 points HORIZONTAL Average Maximum Minimum Avg:Min Max:Min Coef Var	FOOTCANDLES 2.04 4.34 0.36 5.66 12.06 0.48		
Playground 35 points HORIZONTAL Average Maximum Minimum Avg:Min Max:Min Coef Var	FOOTCANDLES 4.1 6.5 2.0 2.04 3.25 0.25		
Pickle Ball (12 points and HORIZONTAL Average Maximum Minimum Avg:Min Max:Min Coef Var UnifGrad	Court t z=0, sp 1ft FOOTCANDLES 8.2 12.1 5.6 1.47 2.16 0.27 1.34	by	10ft
Pool 9 points at HORIZONTAL Average Maximum Minimum Avg:Min Max:Min Coef Var UnifGrad	z=0, sp 10ft FOOTCANDLES 7.4 11.5 4.2 1.75 2.74 0.33 2.21	by	10ft
Ramada 36 points HORIZONTAL Average Maximum Minimum Avg:Min Max:Min Coef Var	FOOTCANDLES 4.0 7.6 1.9 2.10 4.00 0.55		
Property Lin 392 points HORIZONTAL Average Maximum Minimum Avg:Min Max:Min Coef Var	e FOOTCANDLES 0.0 0.9 0.0 N/A N/A 2.94		
Pathway 757 points HORIZONTAL Average Maximum Minimum Avg:Min Max:Min Coef Var	FOOTCANDLES 2.6 6.8 0.5 5.23 13.60 0.72		







WRIGHT ENGINEERING PROJECT NO:

22109

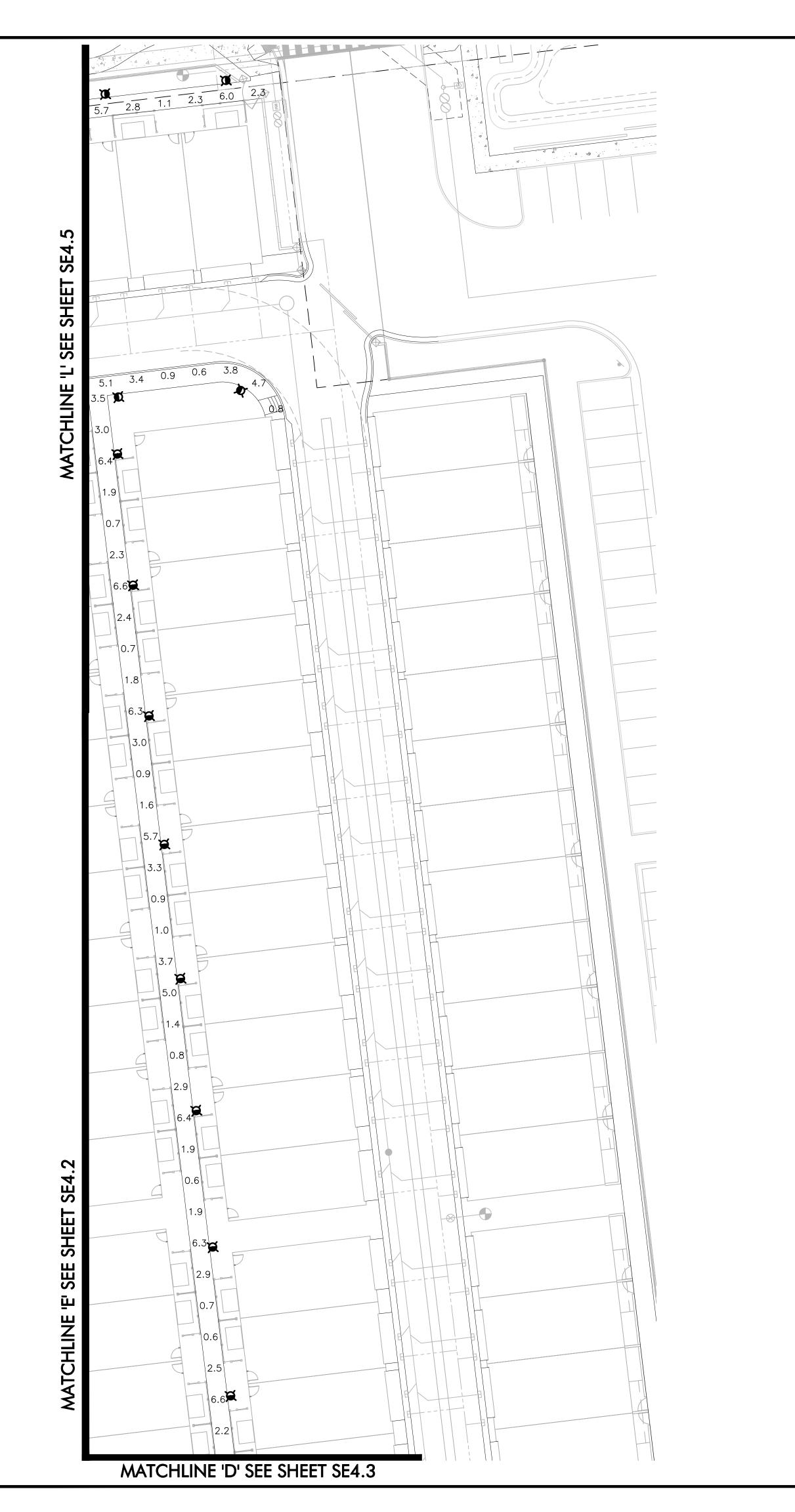
DESIGN BY: XAG
DRAWN BY: XAG
CHECKED BY: CMT

PROJECT: TITLE:

VILL

DRAWING NO:

SE4.3



PHOTOMETRIC LEGEND

T3 Area Light
candela file 'GAN-SA2C-730-U-T3-HSS.ies'
32 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.910, watts per luminaire = 113
mounting height= 14 ft
number locations= 2, number luminaires= 2
kw all locations= 0.2

Ramada Light candela file 'SWP1212_40W_40K_OP.ies' 120 lamp(s) per luminaire, photometry is absolute Light Loss Factor = 0.910, watts per luminaire = 43 mounting height= 10 ft number locations= 6, number luminaires= 6 kw all locations= 0.3

T4 Parking Lot Light candela file 'PRM22-72L-310-3K7-4W.ies'
1 lamp(s) per luminaire, photometry is absolute Light Loss Factor = 0.910, watts per luminaire = 70 mounting height= 14 ft number locations= 21, number luminaires= 21 kw all locations= 1.5

T4 Area Light
candela file 'GALN-SA4C-730-U-T4W_25347 lumens (1).ies'
64 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.910, watts per luminaire = 213
mounting height= 14 ft
number locations= 1, number luminaires= 1
kw all locations= 0.2

BOLLARD candela file 'BRT6-A4-730-U-T3-XX-BK.ies' 8 lamp(s) per luminaire, photometry is absolute Light Loss Factor = 0.910, watts per luminaire = 22 mounting height= 3.5 ft number locations= 147, number luminaires= 147 kw all locations= 3.2

PHOTOMETRIC RESULTS

Parking Lot
391 points
HORIZONTAL FOOTCANDLES
Average 2.04
Maximum 4.34
Minimum 0.36
Avg:Min 5.66
Max:Min 12.06
Coef Var 0.48

Playground 35 points HORIZONTAL FOOTCANDLES Average 6.5 2.0 2.04 3.25 0.25 Maximum Minimum Avg:Min Max:Min Coef Var

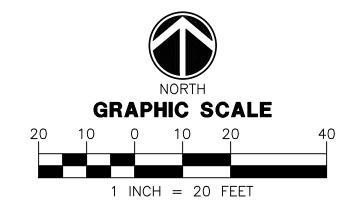
Pickle Ball Court 12 points at z=0, sp 1ft by 10ft HORIZONTAL FOOTCANDLES 8.2 12.1 5.6 1.47 2.16 0.27 1.34 Average Maximum Minimum Avg:Min Max:Min Coef Var UnifGrad

Pool
9 points at z=0, sp 10ft by 10ft
HORIZONTAL FOOTCANDLES
Average 7.4
Maximum 11.5
Minimum 4.2
Avg:Min 1.75
Max:Min 2.74
Coef Var 0.33
UnifGrad 2.21

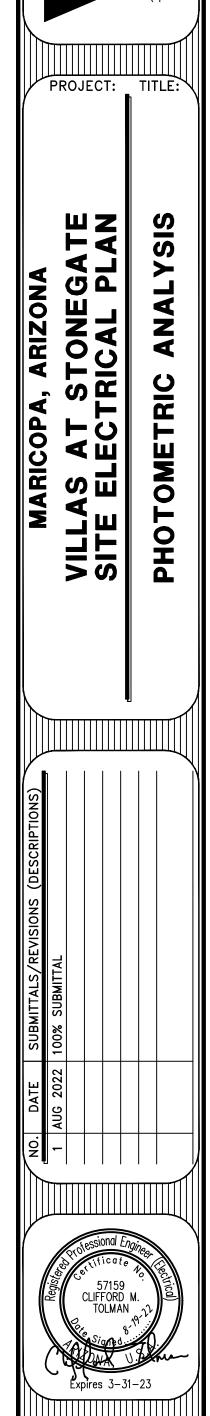
Ramada 36 points HORIZONTAL FOOTCANDLES Average Maximum Minimum 1.9 2.10 4.00 0.55 Avg:Min Max:Min Coef Var

Property Line
392 points
HORIZONTAL FOOTCANDLES
rerage 0.0
rim 0.9
0.0
N/A Avg:Min Max:Min Coef Var

Pathway
757 points
HORIZONTAL FOOTCANDLES
Average 2.6
Maximum 6.8
Minimum 0.5
Avg:Min 5.23
Max:Min 13.60
Coef Var 0.72







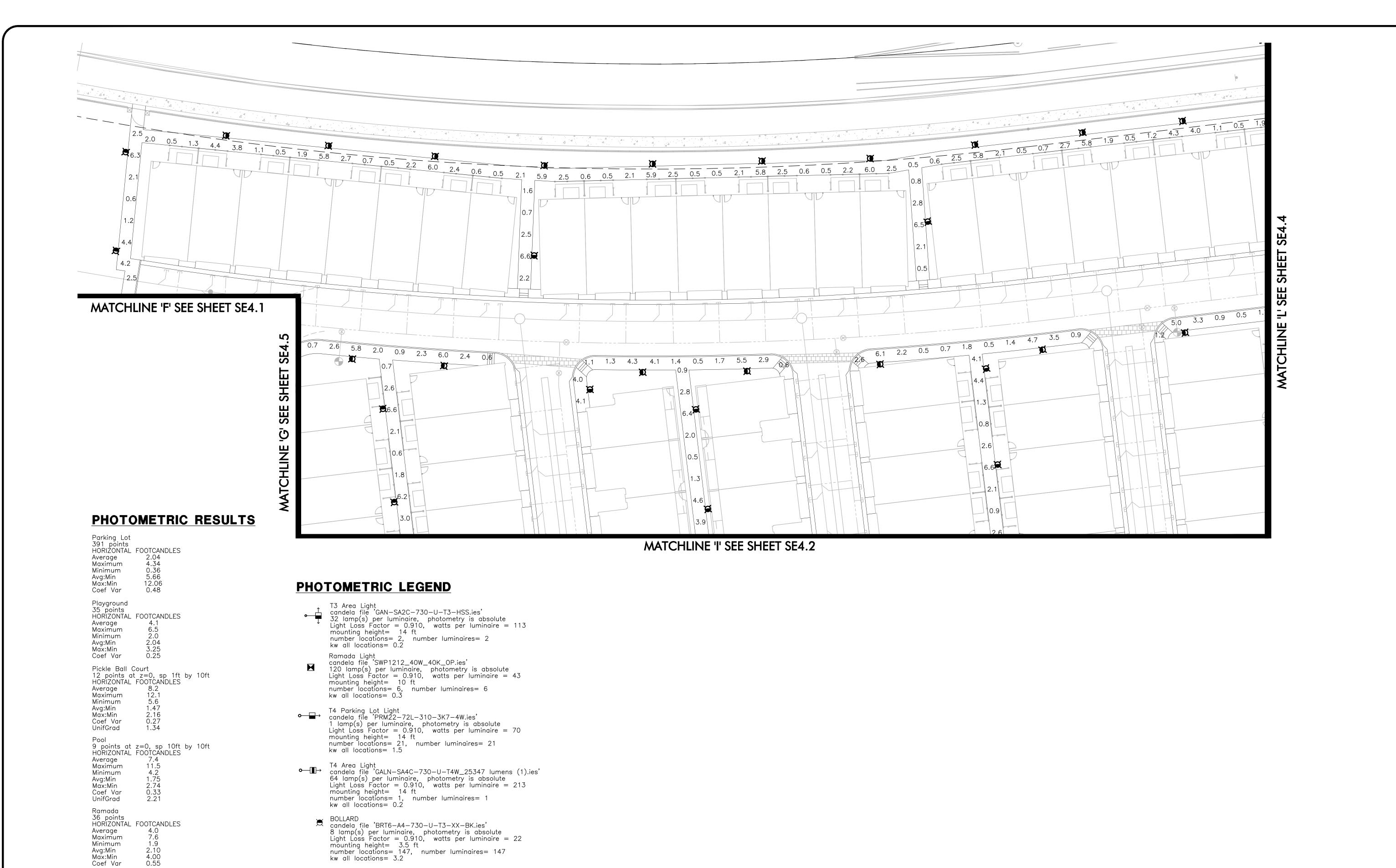
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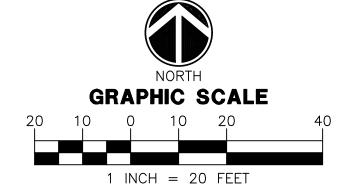
SE4.4

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DESIGN BY: XAG DRAWN BY: XAG CHECKED BY: CMT









WRIGHT ENGINEERING PROJECT NO:

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DESIGN BY: XAG DRAWN BY: XAG CHECKED BY: CMT

PROJECT: TITLE:

VILL

DRAWING NO:

SE4.5

OF 18

Property Line 392 points HORIZONTAL FOOTCANDLES

757 points HORIZONTAL FOOTCANDLES

0.9 0.0 N/A N/A 2.94

6.8 0.5 5.23 13.60 0.72

Average

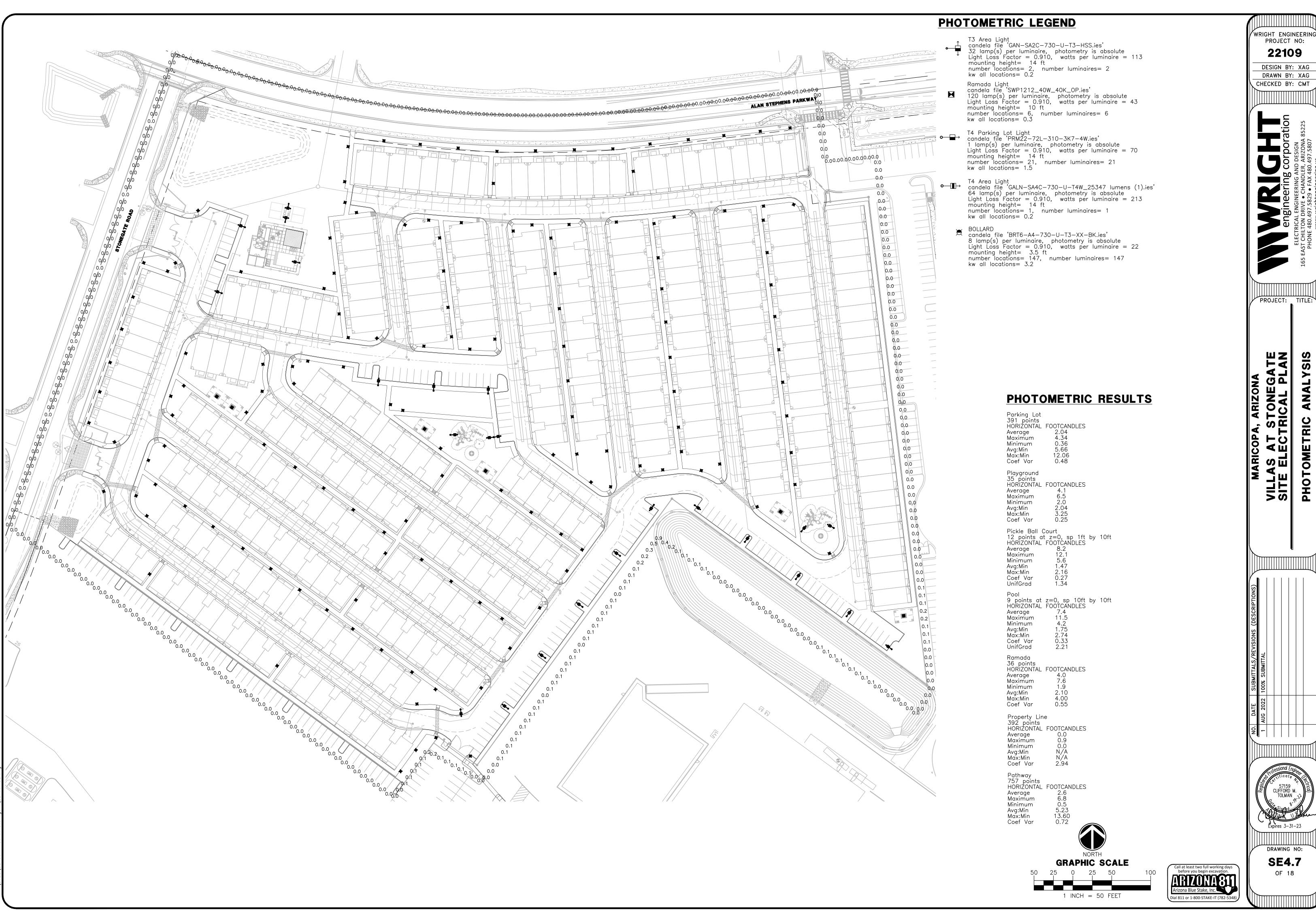
Average

Avg:Min Max:Min

Maximum Minimum

Maximum Minimum Avg:Min Max:Min Coef Var

1 INCH = 20 FEET



WRIGHT ENGINEERING PROJECT NO: