

Bank of America



EXTERIOR LIGHTING PROGRAM

CA2-144
3044 Sacramento St
Placerville, CA 95667

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Engineer:
 Kathleen Moreno, P.E.
 krmoreno@gmr1.com
 214-797-2065

Applicant:
 Cameron Stallybrass
 9831 S 51st St Suite C-106,
 Phoenix, AZ 85044
 678-739-7560

Owner Name:
 Erin Gleason
 575 Maryville Center Drive, Suite 600
 St. Louis, MO 63141
 704-681-3826

Zoning District:
 X

Legal Description:
 POR L 6 BLK 55 PLACERVILLE

Land use:
 Officebuilding

Acreage:
 .77

Square Footage:
 9,722

Proposed:
 0

Existing:
 1

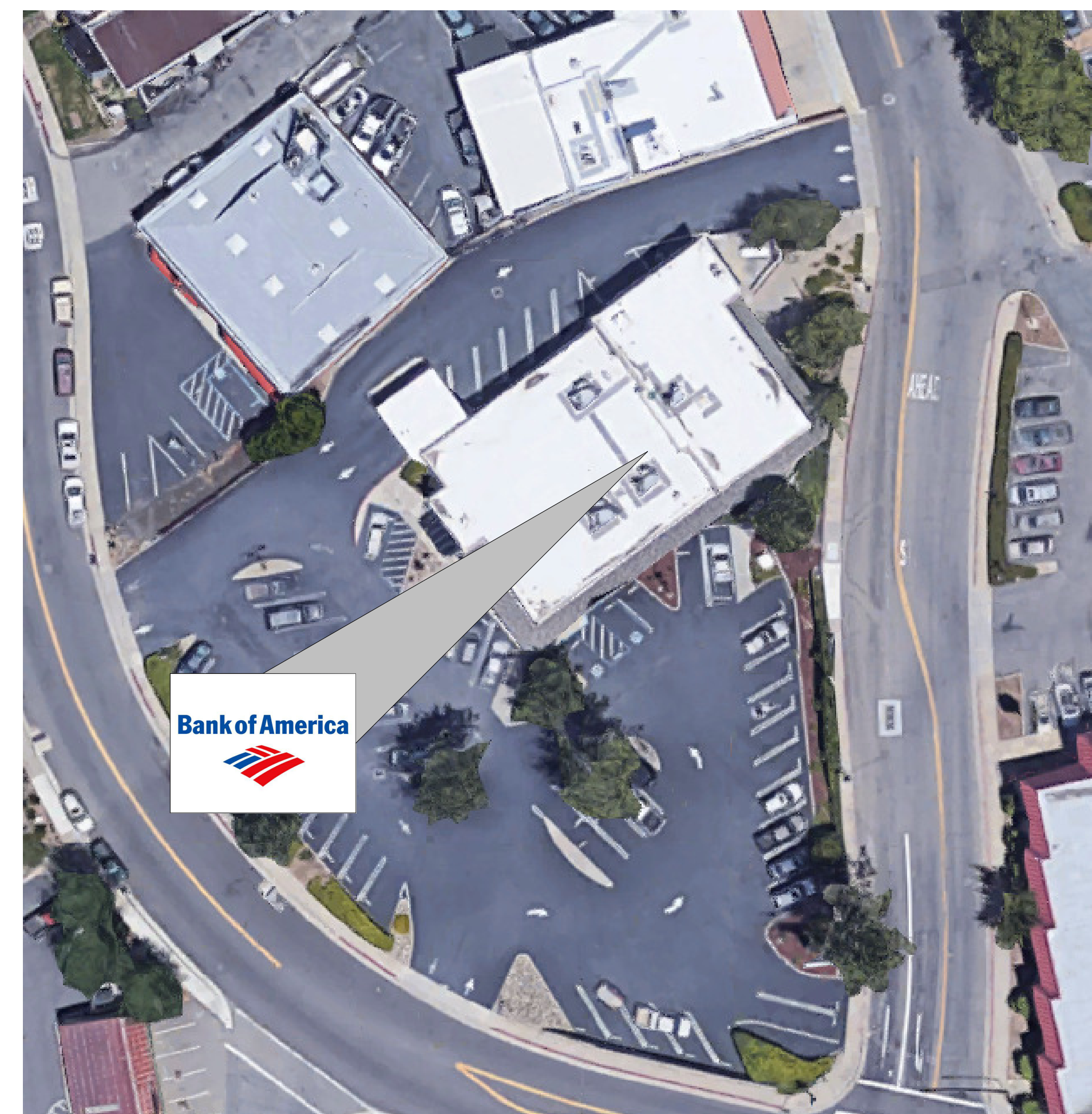
Name of Adjacent Streets:
 Cary Alley & Sacramento St.

Total Number of Parking Spaces:
 40

SCOPE OF WORK

COUNT	NOTES
19	REPLACE EXISTING FIXTURE
6	REMOVE AND PATCH
11	OUT OF SCOPE
2	ADD NEW POLE AND FIXTURE
5	ADD NEW FIXTURE

CALIFORNIA ATM LIGHTING REQUIREMENTS:
 CALIFORNIA FINANCE CODE SECTIONS 13000 - 13070
 APN NUMBER: 003072034



VICINITY MAP



v5 230502



Office: (972) 771-6038
 1629 Smirl Drive, Suite 200, Heath, Texas 75032
www.gmr1.com



CONTRACTOR RESPONSIBILITY NOTES:

- CONTRACTOR SHALL BE RESPONSIBLE FOR PERMITTING, INCLUDING COORDINATION WITH THE LOCAL JURISDICTION AND ANY ASSOCIATED PERMIT FEES OR PROCESSING. CONTRACTOR SHALL NOTIFY GMR UPON RECEIPT OF PERMIT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITTING DOCUMENTS THAT ARE NOT INCLUDED IN THE LIGHTING DESIGN PACKAGE. THESE INCLUDE, BUT ARE NOT LIMITED TO, STAMPED ELECTRICAL DRAWINGS, STAMPED POLE BASE DRAWINGS, AND PROFESSIONAL SURVEYS.
- SHOULD STAMPED PHOTOMETRIC DRAWINGS BE REQUIRED, CONTRACTOR SHALL ENGAGE LOCAL ENGINEER OR LIGHTING DESIGNER AS REQUIRED TO PROVIDE STAMP ON GMR PHOTOMETRIC DESIGN DOCUMENTS.
- CONTRACTOR SHALL PROVIDE THE BANKING CENTER NOTIFICATION AT LEAST ONE WEEK IN ADVANCE OF VISITING SITES OR STARTING WORK.
- CONTRACTOR SHALL VERIFY VOLTAGE REQUIREMENTS FOR FIXTURES PRIOR TO PLACEMENT OF FIXTURE ORDERS.
- CONTRACTOR TO VERIFY LIGHTING CONTROLS PRIOR TO BEGINNING CONSTRUCTION. SEE LIGHTING CONTROL NOTES.
- CONTRACTOR SHALL RECEIVE FORMAL APPROVAL FROM GMR ON ANY FIXTURE MODIFICATIONS OR VARIATIONS FROM THE LUMINAIRE SCHEDULE.
- CONTRACTOR SHALL VERIFY EXISTING AND PROPOSED FIXTURE MOUNTING CONDITIONS IN FIELD. ANY SPECIAL MOUNTING HARDWARE NEEDED FOR PROPOSED FIXTURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL SUPPLY ALL NEW LIGHT POLES. NEW LIGHT POLES SHALL MATCH EXISTING CONDITIONS ON SITE FOR POLE TYPE AND PAINT COLOR.
- CONTRACTOR SHALL ORDER ALL FIXTURES FROM BORDER STATES IN ACCORDANCE WITH BANK OF AMERICA NATIONAL ACCOUNT. CONTACT NATIONAL ACCOUNT QUOTES DEPARTMENT AT BOA@BORDERSTATES.COM OR 704-372-3040.
- CONTRACTOR SHALL PERFORM ALL NECESSARY PATCHING OR REPAINTING FOR ADDED, REMOVED, OR REPLACED FIXTURES.
- CONTRACTOR SHALL REPAIR ANY DISTURBED AREAS BACK TO EXISTING CONDITION INCLUDING PAVED AREAS, LANDSCAPED AREAS, ETC.
- CONTRACTOR SHALL VERIFY AND DOCUMENT COMPLETED WORK DURING NIGHT HOURS. ALL FIXTURES MUST BE FUNCTIONAL DURING NIGHT HOURS PRIOR TO SCHEDULING A FINAL SURVEY WITH GMR.
- CONTRACTOR SHALL PROVIDE BEFORE AND AFTER NIGHT TIME PHOTOS OF THE SITE.
- CONTRACTOR SHALL UTILIZE THE "BOA ELP INCENTIVE SITE SURVEY FORM" TO DOCUMENT THE EXACT DETAILS OF EACH FIXTURE BEING REMOVED FOR REBATE AND ENERGY SAVINGS CALCULATION PURPOSES.
- CONTRACTOR SHALL RECEIVE A PUNCHLIST FROM GMR UPON FINAL SURVEY FOR ANY REMAINING ITEMS TO BE COMPLETED.

CONTROLS & ADDITIONAL NOTES:

LIGHTING CONTROL NOTES:

THE CONTRACTOR SHALL VERIFY THE CONTROLS FOR ALL EXTERIOR LIGHTING AND ATM/AHD INTERIOR LOBBIES ON THE SITE (EXCLUDING SIGNAGE) AND ADJUST ACCORDING TO THE FOLLOWING:

- IC3 CONTROL:

CONTRACTOR SHALL VERIFY THAT EXTERIOR LIGHTING CIRCUITS ARE CONTROLLED BY THE CORRECT IC3 CIRCUIT. WHERE EXTERIOR LIGHTING IS INCLUDED ON CONTROL CIRCUITS FOR INTERIOR SYSTEMS, INTERIOR LIGHTING, OR EXTERIOR SIGNAGE, CONTRACTOR SHALL ADJUST EXTERIOR LIGHTING TO THE CORRECT CONTROL CIRCUIT AS REQUIRED.

- PHOTOCELL CONTROL:

CONTRACTOR SHALL REPLACE EXISTING PHOTOCELLS WITH NEW AND INSTALL IN A LOCATION BEST SUITED TO PROVIDE APPROPRIATE LIGHT EXPOSURE SUCH THAT EXTERIOR LIGHTS ARE ON DURING DARKNESS.

- TIME CLOCK CONTROL:

CONTRACTOR SHALL VERIFY LOCATION OF TIME CLOCK. IF TIME CLOCK IS IN ELECTRICAL ROOM ALONG WITH IC3 CONTROLS, CONTRACTOR SHALL ADJUST CIRCUIT TO BE CONTROLLED BY IC3 EXTERIOR LIGHTING CONTROLS. IF TIME CLOCK IS IN A REMOTE LOCATION NOT IN CLOSE PROXIMITY TO THE IC3 CONTROLS, CONTRACTOR SHALL VERIFY TIME CLOCK IS SET PROPERLY AND LEAVE CIRCUIT ON TIME CLOCK CONTROL.

- MANUAL CONTROL:

CONTRACTOR SHALL VERIFY THAT NO EXTERIOR LIGHTING IS CONTROLLED MANUALLY. IF ANY EXTERIOR LIGHTING IS ON A MANUALLY CONTROLLED CIRCUIT, CONTRACTOR SHALL ADJUST TO BE CONTROLLED BY PHOTOCELL OR IC3, WHICHEVER IS MOST ECONOMICALLY ACCOMPLISHED.

ADDITIONAL CONTRACTOR NOTES:

CONSTRUCTION COMPLETION VERIFICATION

UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL PROVIDE VERIFICATION IN WRITING TO THE BANK OF AMERICA PJM THAT ALL WORK IS COMPLETE ACCORDING TO THE CONSTRUCTION DOCUMENTS, AND THAT ALL EXTERIOR LIGHTING IS FUNCTIONING DURING NIGHTTIME HOURS. COMPLETION PHOTOS, TAKEN AT NIGHT, SHALL BE PROVIDED IN THE FOLLOWING FORMAT:

PROVIDE A SINGLE DOCUMENT CONTAINING THE FOLLOWING:

- SITE PHOTOS FROM ALL SIDES OF BUILDING
- MINIMUM OF 3 PHOTOS OF EACH COMPLIANCE AREA (ATM(S), AFTER-HOUR DEPOSITORIES, ASSOCIATE ENTRY) FROM DIFFERENT ANGLES
- MINIMUM OF 2 PHOTOS OF ALL NON-COMPLIANCE AREAS FROM DIFFERENT ANGLES

FIXTURE CLARIFICATION NOTES:

- OUT OF SCOPE** - EXISTING FIXTURES TO REMAIN ON SITE WITHOUT MODIFICATION. NO ACTION REQUIRED UNLESS NOTED OTHERWISE.
- REMOVE AND PATCH** - EXISTING FIXTURES TO BE FULLY REMOVED AND ANY PAINTING, PATCHING OR ELECTRICAL WORK NEEDED IS TO BE ASSESSED AND PERFORMED BY CONTRACTOR.
- REPLACE EXISTING FIXTURE** - EXISTING FIXTURE TO BE FULLY REMOVED AND REPLACED IN THE SAME LOCATION WITH A NEW FIXTURE. CONTRACTOR TO VERIFY IF POLE AND/OR POLE BASE IS SUFFICIENT FOR THE NEW FIXTURES. ANY PAINTING, PATCHING OR ELECTRICAL WORK NEEDED IS TO BE ASSESSED AND PERFORMED BY CONTRACTOR.
- ADD NEW FIXTURE** - NEW FIXTURES TO BE ADDED. ANY PAINTING, PATCHING OR ELECTRICAL WORK NEEDED TO BE ASSESSED AND PERFORMED BY CONTRACTOR.
- ADD NEW POLE & FIXTURE** - A NEW POLE AND FIXTURE TO BE ADDED. CONTRACTOR TO SPECIFY POLE TO MATCH EXISTING STYLE AND COLOR AND, IF NOT PROVIDED, POLE BASE DATA FOR NEW POLE LOCATIONS. CONTRACTOR TO VERIFY IF POLE AND POLE BASE IS SUFFICIENT FOR THE HEIGHT, LOCATION AND FIXTURE SPECIFIED.
- GMR DOES NOT SPECIFY MOUNTING HARDWARE FOR ANY SPECIFIED FIXTURES. CONTRACTOR IS TO WORK WITH DISTRIBUTOR AND/OR MANUFACTURER ON A CASE BY CASE BASIS TO IDENTIFY AND ORDER REQUIRED MOUNTING HARDWARE.
- CONTRACTOR TO VERIFY WHETHER EXISTING WIRING LOCATIONS OR THE ADDITION OF WIRING FOR NEW FIXTURE LOCATIONS IS SUFFICIENT FOR THE DESIGNATED FIXTURE LOCATION.
- CONTRACTOR TO SPECIFY POLE COLOR AND TYPE PRIOR TO ORDERING.
- ALL FIXTURES ARE ASSUMED BRONZE IN COLOR UNLESS NOTED OTHERWISE IN THE LUMINAIRE SCHEDULE. CONTRACTOR TO CONFIRM PRIOR TO ORDERING.

GENERAL NOTES:

- EXISTING CONDITIONS SHOWN ON THE DRAWINGS ARE BASED ON A LIMITED AMOUNT OF INFORMATION AVAILABLE TO THE ENGINEER. ALL SUCH CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO SUBMITTING THE BID AND ADJUSTED IF NECESSARY. NO ADDITIONAL COMPENSATION SHALL BE GRANTED AFTER AWARDED A BID FOR ANY EQUIPMENT, MATERIAL OR LABOR REQUIRED TO REWORK OR OTHERWISE MODIFY EXISTING CONDITIONS.
- THIS LIGHTING DESIGN IS BASED ON A COMBINATION OF STATE STANDARDS, THE BANK'S CURRENT SECURITY POLICY FOR EXTERIOR ATM AND AFTER-HOUR DEPOSITORIES AND BANK GUIDELINES FOR NON-SECURITY COMPLIANCE ZONES.
- TRIM ALL TREES/LANDSCAPING TO MINIMIZE IMPEDING LIGHT FROM ANY LIGHT FIXTURES THAT IMPACT THE 60' RADIUS AROUND ALL ATMS AND A RADIUS OF 50' AROUND ALL AFTER-HOUR DEPOSITORIES. CONSIDERATION MUST BE GIVEN TO TREES/LANDSCAPING IN A STATE OF FULL FOLIAGE/BLOOM AND FUTURE GROWTH. ALL LANDSCAPING WORK WILL BE PERFORMED BY OTHERS WITH A SEPARATE PERMIT (IF REQUIRED).
- ALL MOUNTING HEIGHTS ARE INTENDED TO THE BOTTOM OF THE FIXTURE.
- CONTRACTOR TO FIELD VERIFY FIXTURE PLACEMENT DIMENSIONS PRIOR TO CONSTRUCTION.
- DIMENSIONING PROVIDED IS FOR PROPOSED FIXTURE LOCATIONS ONLY, UNLESS OTHERWISE NOTED ON THE DRAWING.
- THE CONTRACTOR SHALL ATTEMPT TO ELIMINATE THE USE OF EXPOSED CONDUIT WHERE POSSIBLE. IF EXPOSED CONDUIT IS NECESSARY, THE CONTRACTOR SHALL VERIFY USE WITH PROJECT MANAGER.
- ALL EXISTING LIGHTS WILL BE REPLACED WITH LED LIGHTS AND ALL PROPOSED LIGHTS WILL ALSO BE LED, UNLESS OTHERWISE NOTED.
- ALL FIXTURES ARE TO BE MOUNTED ABOVE FINISH GRADE. UNLESS OTHERWISE NOTED, MATCH EXISTING POLE BASES.

SITE ABBREVIATIONS:

- PL = PROPERTY LINE
- AFG = ABOVE FINISHED GRADE
- FC = FOOTCANDLE
- CBO = CONTROLLED BY OTHERS
- AHD = AFTER HOUR DEPOSITORY

THIS LIGHTING PLAN ILLUSTRATES ILLUMINATE LEVELS CALCULATED FROM LABORATORY DATA UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICAN (IESNA) APPROVED METHODS. ACTUAL SITE ILLUMINATION LEVELS AND PERFORMANCE OF LUMINAIRES MAY VARY DUE TO VARIATIONS IN WEATHER, ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS AND OTHER RELATED VARIABLE FIELD CONDITIONS.



v5 230502

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REVISION NO.	DESCRIPTION	REVISED BY
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Placerville
CA2-144
3044 Sacramento St
Placerville, CA 95667

GENERAL NOTES

DESIGNED BY:	CAS	DRAWN BY:	CAS
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REVIEWED BY:	AWD	APPROVED BY:	KRM
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SHEET NO.	LU-1
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SEE FIXTURE CLARIFICATION NOTE #9

LUMINAIRE SCHEDULE

CONTRACTOR TO VERIFY MOUNTING ACCESSORIES BEFORE ORDERING

SYMBOL	TOTAL FIXTURE COUNT	TYPE	NEW POLE COUNT	MANUFACTURER	MODEL	MODEL NUMBER	NOTES	MOUNTING HEIGHT	MOUNTING ACCESSORY	BUG RATING	MOUNTING	KILOWATT PER HOUR	TOTAL WATTAGE
■	1	BA1	-	CREE	CPY	CPY250-C-2L-40K7-F-UL-DM-WH	REPLACE EXISTING FIXTURE	MATCH EXISTING CANOPY HEIGHT	-	B1-U0-G0	SURFACE CANOPY MOUNT	0.014	14 W
■	3	BA2	-	CREE	CPY	CPY250-C-2L-40K7-F-UL-DM-WH	ADD NEW FIXTURE	MATCH EXISTING CANOPY HEIGHT	-	B1-U0-G0	SURFACE CANOPY MOUNT	0.014	42 W
■	8	EM1	-	CREE	ZR24	ZR-24-40L-840-10V5-UNV	REPLACE EXISTING FIXTURE	MATCH EXISTING CANOPY HEIGHT	-	B2-U0-G1	RECESSED CANOPY MOUNT	0.032	256 W
■	2	GY1	-	CREE	OSQ	OSQ-L-B-22L-40K7-5N-UL-NM-BZ	REPLACE EXISTING FIXTURE	MATCH EXISTING	OSQ-ML-B-DA-BZ	B5-U0-G3	POLE MOUNT	0.132	264 W
■	1	GY2	1	CREE	OSQ	OSQ-L-B-22L-40K7-5N-UL-NM-BZ	ADD NEW POLE AND FIXTURE	20' AFG	OSQ-ML-B-DA-BZ	B5-U0-G3	POLE MOUNT	0.132	132 W
■	1	HL1	-	CREE	OSQ	OSQ-L-B-22L-40K7-4M-UL-NM-BZ	REPLACE EXISTING FIXTURE	MATCH EXISTING	OSQ-ML-B-DA-BZ, OSQ-BLSLF	B2-U0-G3	POLE MOUNT	0.132	132 W
■	1	HQ1	1	CREE	OSQ	OSQ-L-B-22L-40K7-3M-UL-NM-BZ	ADD NEW POLE AND FIXTURE	20' AFG	OSQ-ML-B-DA-BZ	B3-U0-G3	POLE MOUNT	0.132	132 W
■	1	SA1	-	CREE	SECURITY EDGE	SEC-EDG-2S-WM-02-E-UL-WH-350-40K	ADD NEW FIXTURE	8' AFG	-	B1-U0-G1	WALL MOUNT	0.025	25 W
■	1	SB1	-	CREE	SECURITY EDGE	SEC-EDG-2S-WM-02-E-UL-WH-525-40K	REPLACE EXISTING FIXTURE	MATCH EXISTING	-	B1-U0-G1	WALL MOUNT	0.037	37 W
■	5	SE1	-	CREE	SECURITY EDGE	SEC-EDG-3M-WM-02-E-UL-WH-350-40K	REPLACE EXISTING FIXTURE	MATCH EXISTING	-	B1-U0-G1	WALL MOUNT	0.025	125 W
■	1	SH1	-	CREE	SECURITY EDGE	SEC-EDG-4M-WM-02-E-UL-WH-350-40K	ADD NEW FIXTURE	9' AFG	-	B1-U0-G1	WALL MOUNT	0.025	25 W
■	1	SJ1	-	CREE	SECURITY EDGE	SEC-EDG-4M-WM-02-E-UL-WH-700-40K	REPLACE EXISTING FIXTURE	MATCH EXISTING	-	B1-U0-G1	WALL MOUNT	0.05	50 W
■	2	WA1	-	-	-	-	REMOVE AND PATCH	-	-	-	WALL MOUNT		0 W
■	4	WB1	-	-	-	-	REMOVE AND PATCH	-	-	-	FLOOD		0 W
■	1	YB1	-	-	-	-	OUT OF SCOPE	-	-	-	POLE MOUNT	0	0 W
■	4	YGX1	-	-	-	OSQ-M-B-16L-40K7-5N-UL-NM-BZ	OUT OF SCOPE	-	-	B4-U0-G3	POLE MOUNT	0.104	416 W
■	2	YH1	-	-	-	-	OUT OF SCOPE	-	-	-	FLOOD	0	0 W
■	4	YI1	-	-	-	-	OUT OF SCOPE	-	-	-	POLE MOUNT	0	0 W
GRAND TOTAL WATTAGE												1650 W	



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Placerville, CA 95667

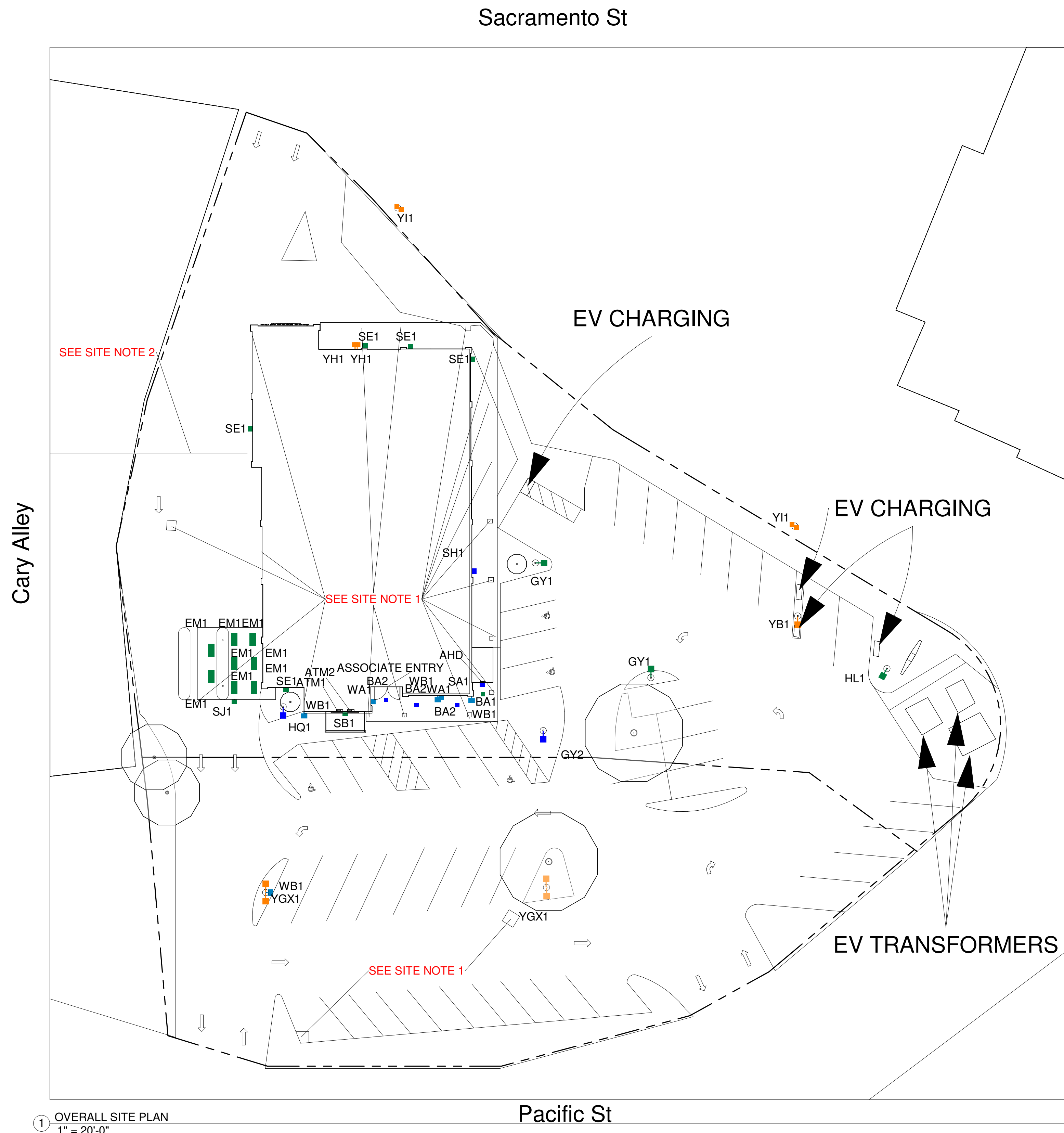
LUMINAIRE SCHEDULE

DESIGNED BY:	CAS	DRAWN BY:	CAS
REVIEWED BY:	AWD	APPROVED BY:	KRM

THIS LIGHTING PLAN ILLUSTRATES ILLUMINATE LEVELS CALCULATED FROM LABORATORY DATA UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICAN (IESNA) APPROVED METHODS. ACTUAL SITE ILLUMINATION LEVELS AND PERFORMANCE OF LUMINAIRES MAY VARY DUE TO VARIATIONS IN WEATHER, ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS AND OTHER RELATED VARIABLE FIELD CONDITIONS.

SHEET NO. LU-2

TOTAL FIXTURE COUNT	TYPE	NOTES	MOUNTING HEIGHT
1	BA1	REPLACE EXISTING FIXTURE	MATCH EXISTING CANOPY HEIGHT
3	BA2	ADD NEW FIXTURE	MATCH EXISTING CANOPY HEIGHT
8	EM1	REPLACE EXISTING FIXTURE	MATCH EXISTING CANOPY HEIGHT
2	GY1	REPLACE EXISTING FIXTURE	MATCH EXISTING
1	GY2	ADD NEW POLE AND FIXTURE	20' AFG
1	HL1	REPLACE EXISTING FIXTURE	MATCH EXISTING
1	HQ1	ADD NEW POLE AND FIXTURE	20' AFG
1	SA1	ADD NEW FIXTURE	8' AFG
1	SB1	REPLACE EXISTING FIXTURE	MATCH EXISTING
5	SE1	REPLACE EXISTING FIXTURE	MATCH EXISTING
1	SH1	ADD NEW FIXTURE	9' AFG
1	SJ1	REPLACE EXISTING FIXTURE	MATCH EXISTING
2	WA1	REMOVE AND PATCH	-
4	WB1	REMOVE AND PATCH	-
1	YB1	OUT OF SCOPE	-
4	YGX1	OUT OF SCOPE	-
2	YH1	OUT OF SCOPE	-
4	YI1	OUT OF SCOPE	-



① OVERALL SITE PLAN
1" = 20'-0"

Sacramento St

Cary Alley

EV CHARGING

EV CHARGING

EV TRANSFORMERS

Pacific St

Bank of America

BLUE = NEW FIXTURE
 GREEN = EXISTING FIXTURE LOCATION TO BE REPLACED
 ORANGE = EXISTING FIXTURE TO REMAIN
 TURQUOISE = FIXTURE TO BE REMOVED
 PINK = REPLACE WITH NEW POLE AT NEW HEIGHT
 - - - = PROPERTY LINE BASED ON COUNTY APPRAISAL INFORMATION
 - - - = INDICATES NEW SECURITY FENCE



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Placerville, CA 95667

OVERALL SITE PLAN

DESIGNED BY:	CAS	DRAWN BY:	CAS
REVIEWED BY:	AWD	APPROVED BY:	KRM

SHEET NO. **LU-3**

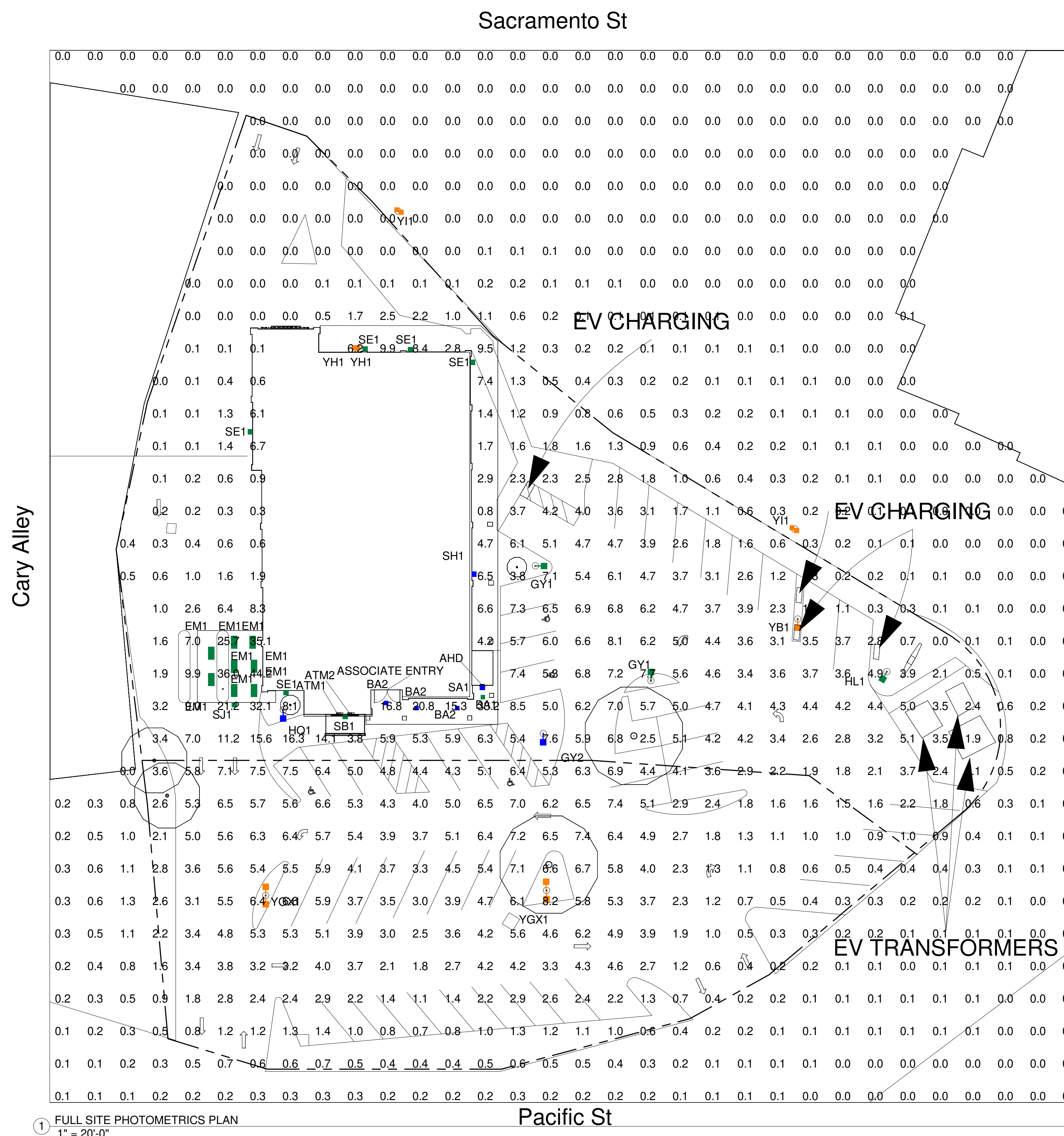
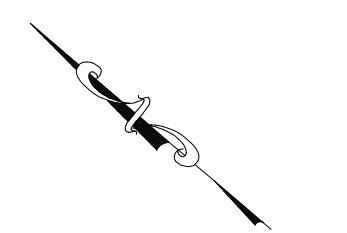
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SITE NOTES:	EXISTING CONDITIONS:
1. GUTTERS/DRAINAGE SYSTEM. 2. SEWER LINE.	1. EXISTING POLES - SQUARE - STEEL 2. EXISTING POLE BASES - DIRECT BURY 3. EXISTING DRIVE THRU CEILING - HARD

- NOTES:
1. THE SCOPE OF WORK FOR THIS PROJECT IS LIMITED TO EXTERIOR LIGHTING RENOVATIONS AS SHOWN ON THE PLANS.
 2. ALL PROPOSED LIGHTS WILL BE FULL CUTOFF LED LIGHT FIXTURES.
 3. ALL EXISTING LIGHTS WILL BE REPLACED WITH FULL CUTOFF LED LIGHT FIXTURES.
 4. REFERENCE THE LUMINAIRE SCHEDULE (SHEET LU-2) FOR ADDITIONAL LIGHT FIXTURE INFORMATION.



- BLUE = NEW FIXTURE
- GREEN = EXISTING FIXTURE LOCATION TO BE REPLACED
- ORANGE = EXISTING FIXTURE TO REMAIN
- TURQUOISE = FIXTURE TO BE REMOVED
- PINK = REPLACE WITH NEW POLE AT NEW HEIGHT
- - - = PROPERTY LINE BASED ON COUNTY APPRAISAL INFORMATION
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1 FULL SITE PHOTOMETRICS PLAN
1" = 20'-0"



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FULL SITE
PHOTOMETRICS PLAN

DESIGNED BY: CAS DRAWN BY: CAS
REVIEWED BY: AWD APPROVED BY: KRM

SHEET NO. LU-4

THIS LIGHTING PLAN ILLUSTRATES ILLUMINATE LEVELS CALCULATED FROM LABORATORY DATA UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICAN (IESNA) APPROVED METHODS. ACTUAL SITE ILLUMINATION LEVELS AND PERFORMANCE OF LUMINAIRE MAY VARY DUE TO VARIATIONS IN WEATHER, ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS AND OTHER RELATED VARIABLE FIELD CONDITIONS.

CALCULATION SUMMARY FULL SITE					
Calculation Points Name	Average	Maximum	Minimum	Ave/Min	Max/Min
FULL SITE @ GRADE	2.0 fc	44.2 fc	0.0 fc	0.0	0.0

TOTAL FIXTURE COUNT	TYPE	NOTES	MOUNTING HEIGHT
1	BA1	REPLACE EXISTING FIXTURE	MATCH EXISTING CANOPY HEIGHT
3	BA2	ADD NEW FIXTURE	MATCH EXISTING CANOPY HEIGHT
8	EM1	REPLACE EXISTING FIXTURE	MATCH EXISTING CANOPY HEIGHT
2	GY1	REPLACE EXISTING FIXTURE	MATCH EXISTING
1	GY2	ADD NEW POLE AND FIXTURE	20' AFG
1	HL1	REPLACE EXISTING FIXTURE	MATCH EXISTING
1	HQ1	ADD NEW POLE AND FIXTURE	20' AFG
1	SA1	ADD NEW FIXTURE	8' AFG
1	SB1	REPLACE EXISTING FIXTURE	MATCH EXISTING
5	SE1	REPLACE EXISTING FIXTURE	MATCH EXISTING
1	SH1	ADD NEW FIXTURE	9' AFG
1	SJ1	REPLACE EXISTING FIXTURE	MATCH EXISTING
2	WA1	REMOVE AND PATCH	-
4	WB1	REMOVE AND PATCH	-
1	YB1	OUT OF SCOPE	-
4	YGX1	OUT OF SCOPE	-
2	YH1	OUT OF SCOPE	-
4	YI1	OUT OF SCOPE	-

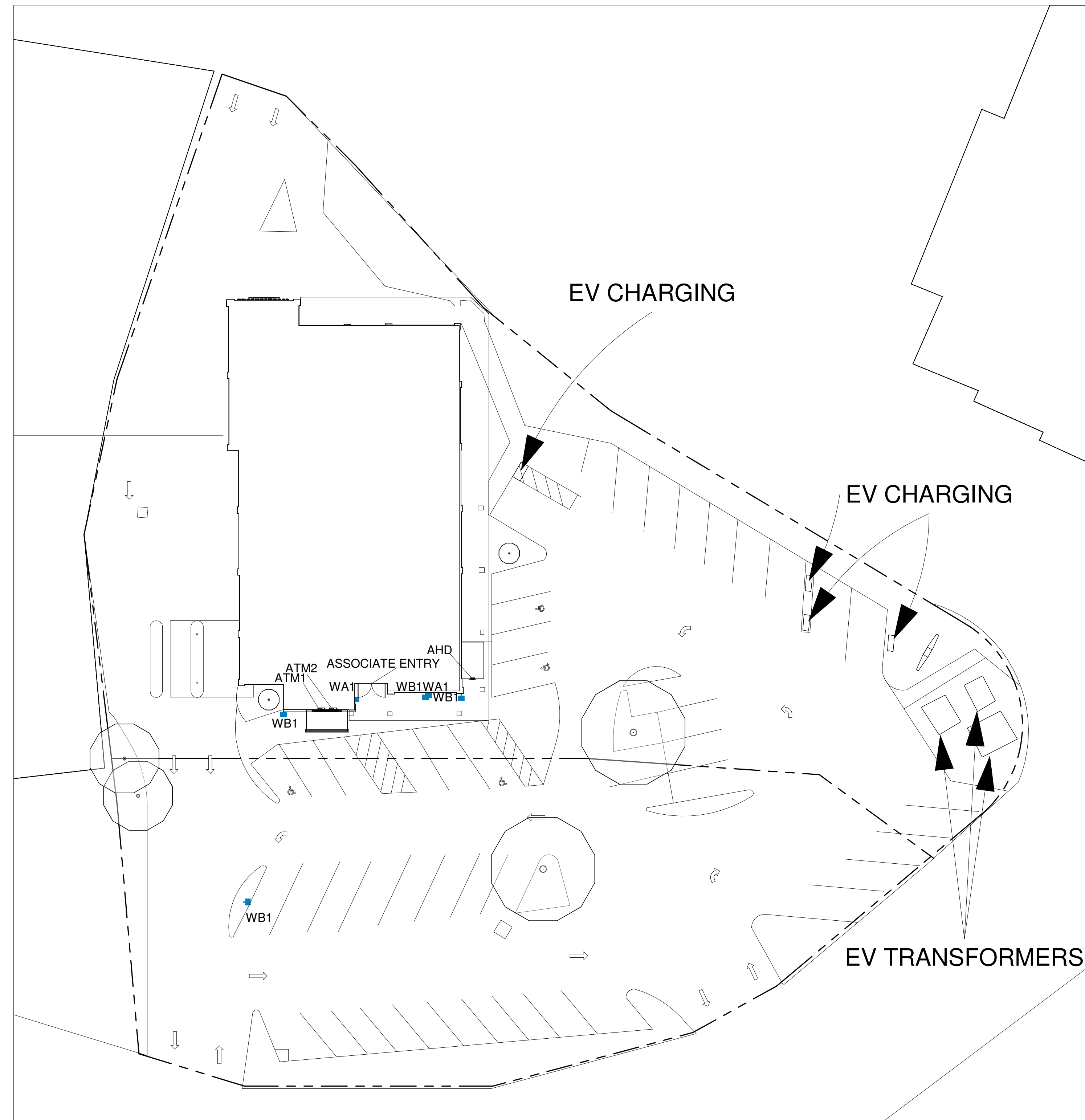
Sacramento St

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 ORANGE = EXISTING FIXTURE TO REMAIN
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 PINK = REPLACE WITH NEW POLE AT NEW HEIGHT
 - - - = PROPERTY LINE BASED ON COUNTY APPRAISAL INFORMATION
 - - - - - = INDICATES NEW SECURITY FENCE

Cary Alley



① FIXTURE REMOVAL PLAN
1" = 20'-0"

Pacific St

Kam



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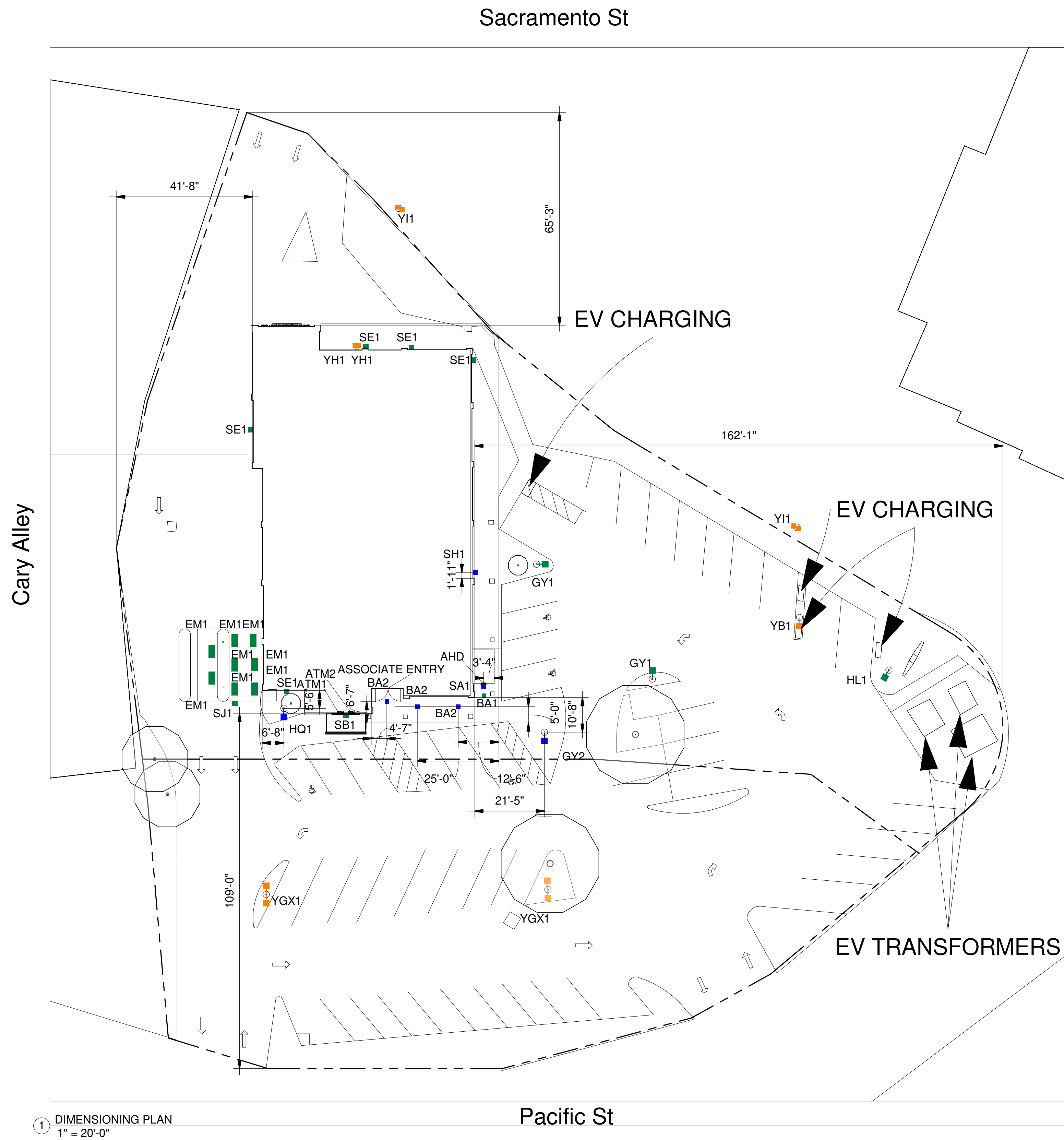
FIXTURE REMOVAL PLAN

DESIGNED BY:	CAS	DRAWN BY:	CAS
REVIEWED BY:	AWD	APPROVED BY:	KRM

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SHEET NO. LU-5

TOTAL FIXTURE COUNT	TYPE	NOTES	MOUNTING HEIGHT
1	BA1	REPLACE EXISTING FIXTURE	MATCH EXISTING CANOPY HEIGHT
3	BA2	ADD NEW FIXTURE	MATCH EXISTING CANOPY HEIGHT
8	EM1	REPLACE EXISTING FIXTURE	MATCH EXISTING CANOPY HEIGHT
2	GY1	REPLACE EXISTING FIXTURE	MATCH EXISTING
1	GY2	ADD NEW POLE AND FIXTURE	20' AFG
1	HL1	REPLACE EXISTING FIXTURE	MATCH EXISTING
1	HQ1	ADD NEW POLE AND FIXTURE	20' AFG
1	SA1	ADD NEW FIXTURE	8' AFG
1	SB1	REPLACE EXISTING FIXTURE	MATCH EXISTING
5	SE1	REPLACE EXISTING FIXTURE	MATCH EXISTING
1	SH1	ADD NEW FIXTURE	9' AFG
1	SJ1	REPLACE EXISTING FIXTURE	MATCH EXISTING
2	WA1	REMOVE AND PATCH	-
4	WB1	REMOVE AND PATCH	-
1	YB1	OUT OF SCOPE	-
4	YGX1	OUT OF SCOPE	-
2	YH1	OUT OF SCOPE	-
4	YI1	OUT OF SCOPE	-

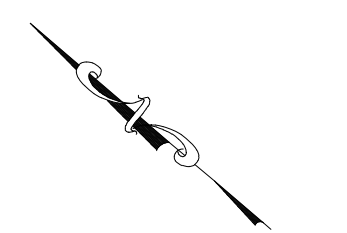


① DIMENSIONING PLAN
1" = 20'-0"

Bank of America



- BLUE = NEW FIXTURE
- GREEN = EXISTING FIXTURE LOCATION TO BE REPLACED
- ORANGE = EXISTING FIXTURE TO REMAIN
- TURQUOISE = FIXTURE TO BE REMOVED
- PINK = REPLACE WITH NEW POLE AT NEW HEIGHT
- - - = PROPERTY LINE BASED ON COUNTY APPRAISAL INFORMATION
- = INDICATES NEW SECURITY FENCE



Kam



v5 230502

REVISION NO.	DESCRIPTION	REVISOR



Placerville
CA2-144
3044 Sacramento St
Placerville, CA 95667

DIMENSIONING PLAN

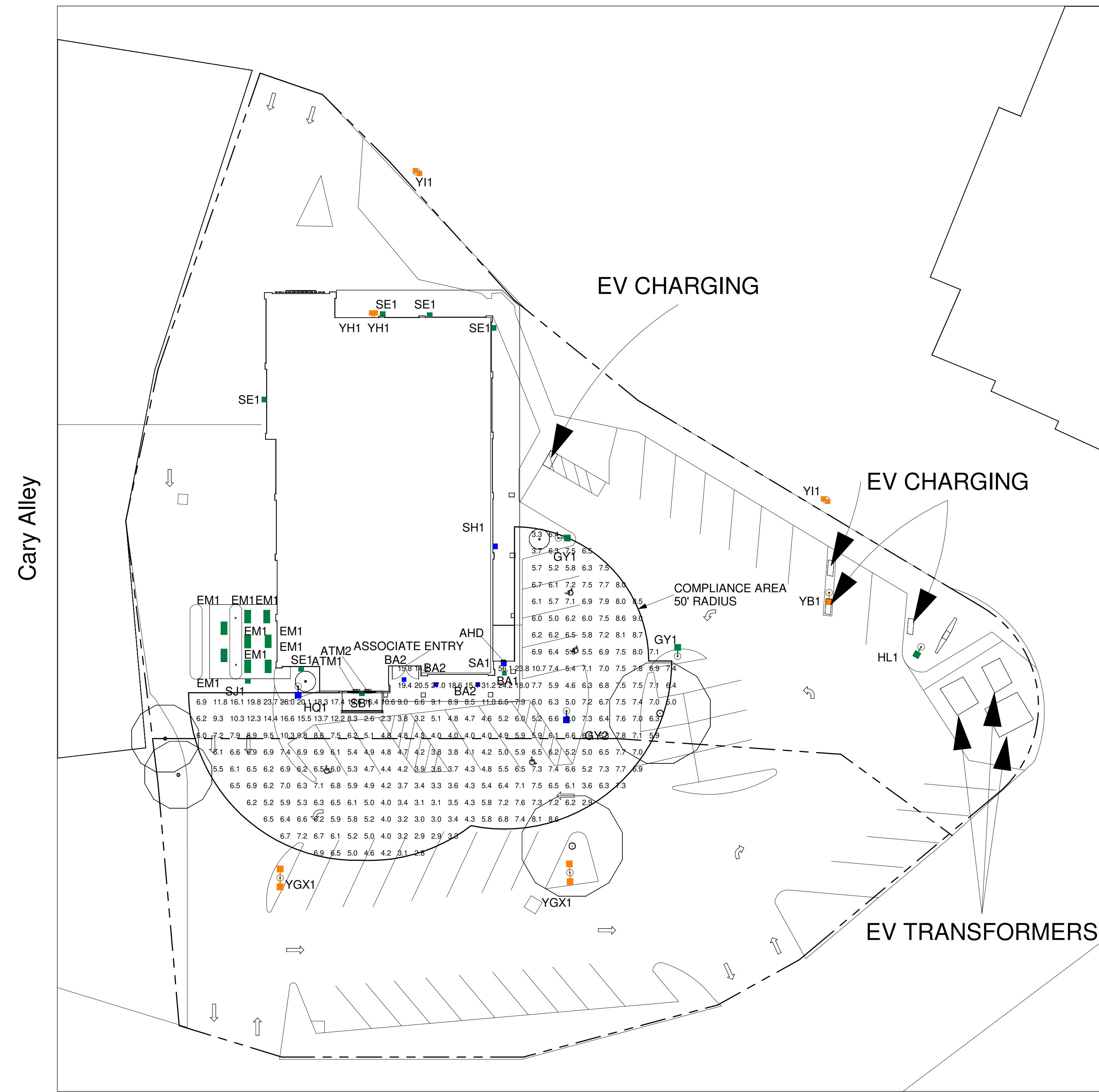
DESIGNED BY:	CAS	DRAWN BY:	CAS
REVIEWED BY:	AWD	APPROVED BY:	KRM

SHEET NO. LU-6

THIS LIGHTING PLAN ILLUSTRATES ILLUMINATE LEVELS CALCULATED FROM LABORATORY DATA UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICAN (IESNA) APPROVED METHODS. ACTUAL SITE ILLUMINATION LEVELS AND PERFORMANCE OF LUMINAIRES MAY VARY DUE TO VARIATIONS IN WEATHER, ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS AND OTHER RELATED VARIABLE FIELD CONDITIONS.



BLUE = NEW FIXTURE
 GREEN = EXISTING FIXTURE LOCATION TO BE REPLACED
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 - - - = PROPERTY LINE BASED ON COUNTY APPRAISAL INFORMATION
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① ATM COMPLIANCE AREA PHOTOMETRICS PLAN
1" = 20'-0"

Kam



v5 230502

REVISION NO.	DESCRIPTION	REVISION BY



Placerville
 CA2-144
 3044 Sacramento St
 Placerville, CA 95667
 ATM COMPLIANCE
 AREA PHOTOMETRICS PLAN

DESIGNED BY:	CAS	DRAWN BY:	CAS
REVIEWED BY:	AWD	APPROVED BY:	KRM

SHEET NO. LU-8

NOTES:
 1. READINGS ARE MEASURED AT 36" (3') ABOVE GRADE.
 2. THE SCOPE OF WORK FOR THIS PROJECT IS LIMITED TO EXTERIOR LIGHTING RENOVATIONS AS SHOWN ON THE PLANS.
 3. REFERENCE THE LUMINAIRE SCHEDULE FOR ADDITIONAL LIGHT FIXTURE INFORMATION.
 4. GC TO VERIFY WITH LOCAL AUTHORITY HAVING JURISDICTION ON TREE TRIMMING AND/OR REMOVAL PRIOR TO COMMENCING WORK.

THIS LIGHTING PLAN ILLUSTRATES ILLUMINATE LEVELS CALCULATED FROM LABORATORY DATA UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICAN (IESNA) APPROVED METHODS. ACTUAL SITE ILLUMINATION LEVELS AND PERFORMANCE OF LUMINAIRES MAY VARY DUE TO VARIATIONS IN WEATHER, ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS AND OTHER RELATED VARIABLE FIELD CONDITIONS.

CALCULATION SUMMARY COMPLIANCE					
Calculation Points Name	Average	Maximum	Minimum	Ave/Min	Max/Min
ALL UNITS 50' @ 36"	7.4 fc	56.1 fc	2.3 fc	3.2	24.2



① ELEVATION 1
3/32" = 1'-0"



② ELEVATION 2
3/32" = 1'-0"



③ ELEVATION 3
3/32" = 1'-0"



④ ELEVATION 4
3/32" = 1'-0"

Kam



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Placerville
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Placerville, CA 95667

ELEVATIONS

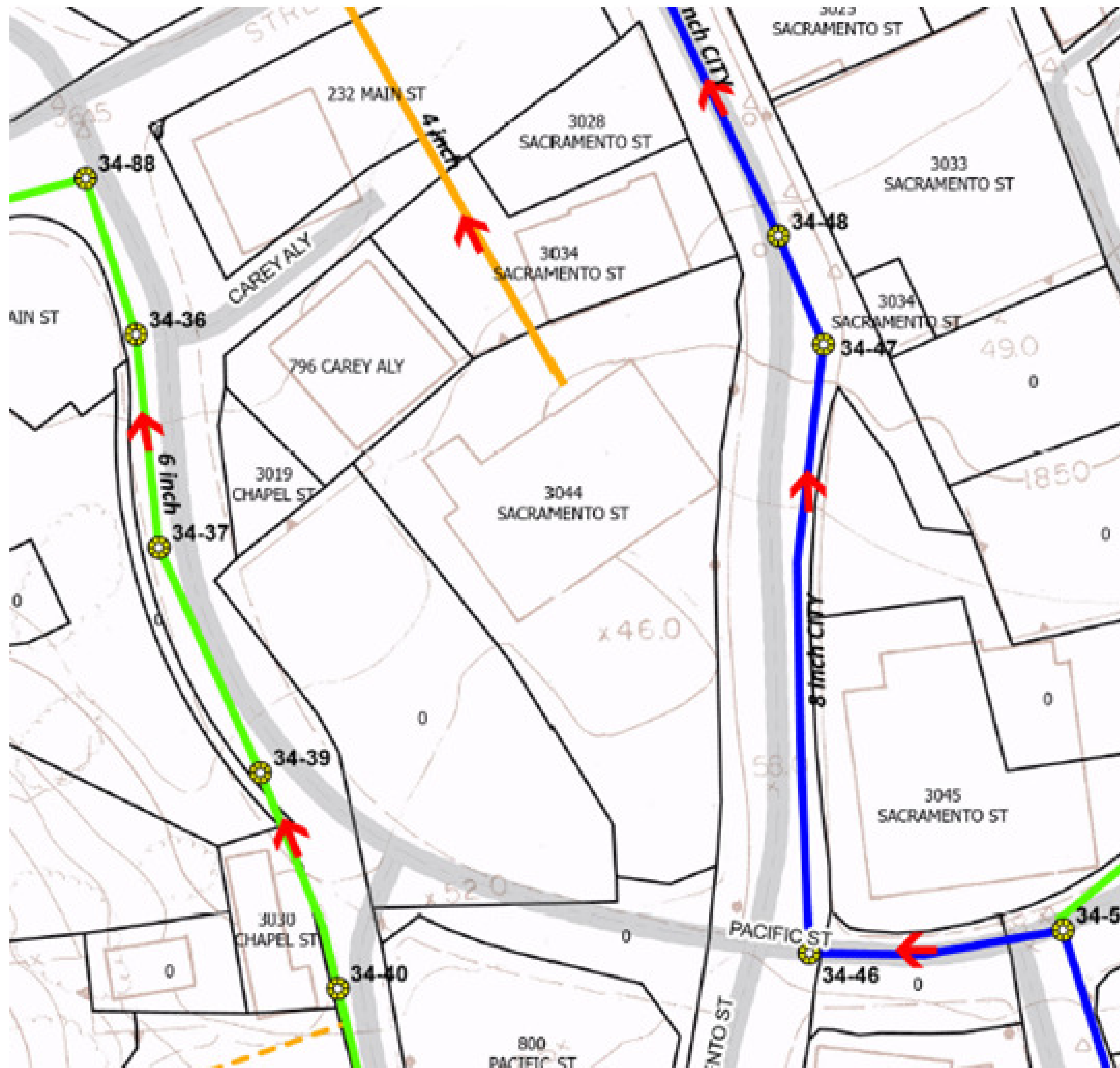
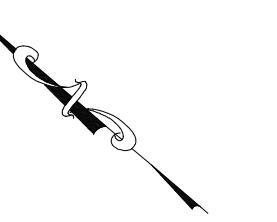
DESIGNED BY:	CAS	DRAWN BY:	CAS
REVIEWED BY:	AWD	APPROVED BY:	KRM

SHEET NO.

LU-9



- BLUE = NEW FIXTURE
- GREEN = EXISTING FIXTURE LOCATION TO BE REPLACED
- ORANGE = EXISTING FIXTURE TO REMAIN
- TURQUOISE = FIXTURE TO BE REMOVED
- PINK = REPLACE WITH NEW POLE AT NEW HEIGHT
- - - PROPERTY LINE BASED ON COUNTY APPRAISAL INFORMATION
- INDICATES NEW SECURITY FENCE



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3044 Sacramento St
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SEWER LINE MAP

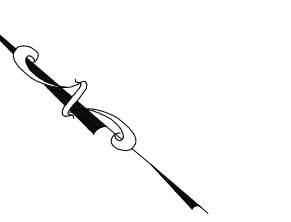
DESIGNED BY:	CAS	DRAWN BY:	CAS
REVIEWED BY:	AWD	APPROVED BY:	KRM

SHEET NO. LU-10

THIS LIGHTING PLAN ILLUSTRATES ILLUMINATE LEVELS CALCULATED FROM LABORATORY DATA UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICAN (IESNA) APPROVED METHODS. ACTUAL SITE ILLUMINATION LEVELS AND PERFORMANCE OF LUMINAIRES MAY VARY DUE TO VARIATIONS IN WEATHER, ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS AND OTHER RELATED VARIABLE FIELD CONDITIONS.



BLUE = NEW FIXTURE
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v5 230502

REVISION NO.	DESCRIPTION	REVISED BY



Placerville
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 3044 Sacramento St
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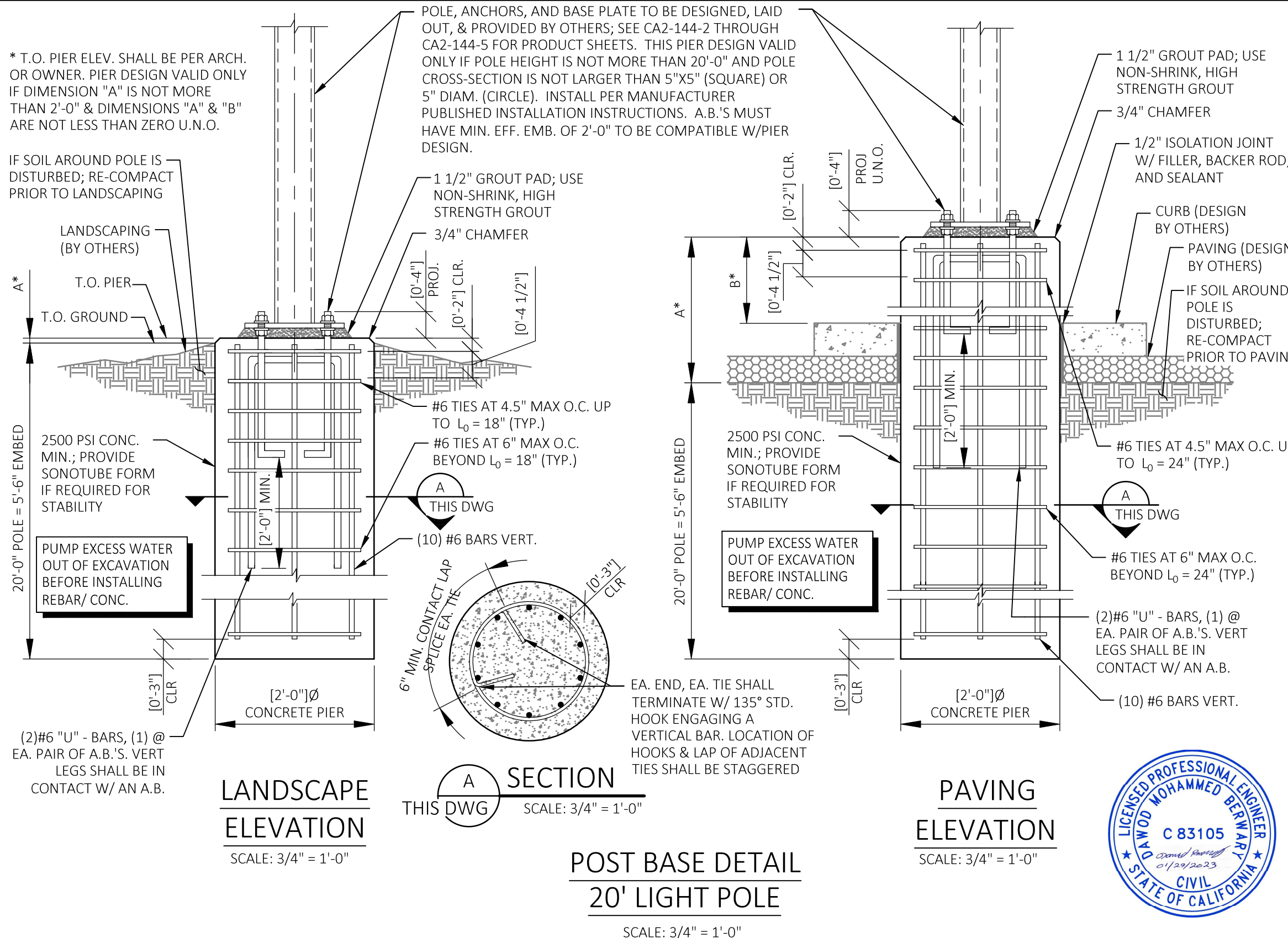
WATER LINE MAP

DESIGNED BY:	CAS	DRAWN BY:	CAS
REVIEWED BY:	AWD	APPROVED BY:	KRM

SHEET NO. LU-11

THIS LIGHTING PLAN ILLUSTRATES ILLUMINATE LEVELS CALCULATED FROM LABORATORY DATA UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICAN (IESNA) APPROVED METHODS. ACTUAL SITE ILLUMINATION LEVELS AND PERFORMANCE OF LUMINAIRES MAY VARY DUE TO VARIATIONS IN WEATHER, ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS AND OTHER RELATED VARIABLE FIELD CONDITIONS.





GENERAL NOTES:

1. THE CONTRACTOR IS TO FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, AND CONDITIONS PRIOR TO INSTALLATION
2. THE STRUCTURAL DRAWINGS HEREIN REPRESENT THE FINISHED STRUCTURE. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY BRACING AND SUPPORTS REQUIRED TO ERECT AND HOLD THE SOIL AND STRUCTURE IN PROPER ALIGNMENT UNTIL ALL STRUCTURAL WORK, CURING, CONNECTIONS, ETC. HAVE BEEN COMPLETED. THE INVESTIGATION, DESIGN, SAFETY, ADEQUACY, AND INSPECTION OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
3. PIER DESIGN VALID ONLY IF LUMINAIRE GROUP AT TOP OF POLE HAS TOTAL EPA NOT MORE THAN 2.5 SF AND TOTAL WEIGHT NOT MORE THAN 130 LBS.
4. ALLOWABLE SOIL BEARING CAPACITY = 1500 PSF

DESIGN LOADS:

1. BUILDING CODE: CALIFORNIA BUILDING CODE 2019
ACI-318-14
ASCE 7-16
2. WIND LOAD: V = 94 MPH
V_{ASD} = 73 MPH
RISK CAT. II
EXPOSURE C
3. SEISMIC LOAD: SEISMIC DESIGN CAT. D
SITE CLASS D
I_E = 1.0
S_S = 0.442 g S₁ = 0.207 g
S_{DS} = 0.426 g S_{D1} = 0.302 g
SEISMIC FORCE-RESISTING SYSTEM COEFFICIENTS FOR TELECOMMUNICATION POLE (STEEL)
R = 1.5 Ω = 1.5
C_d = 1.5
V_{ASD} = 74.7 LBS
EQUIVALENT LATERAL FORCE PROCEDURE

GENERAL CONCRETE NOTES

1. ALL CONCRETE NOT SPECIFICALLY NOTED = 2500 PSI MIN. AT 28 DAYS
2. DUSTING WITH ANY MATERIAL TO ABSORB SURFACE WATER IS PROHIBITED.
3. EXPOSED VERTICAL SURFACES SHALL HAVE ALL TIE HOLES AND SURFACE IMPERFECTIONS CORRECTED WITH MORTAR.
4. PROVIDE 3/4" CHAMFER OR RADIUS ON ALL EXPOSED CORNERS.



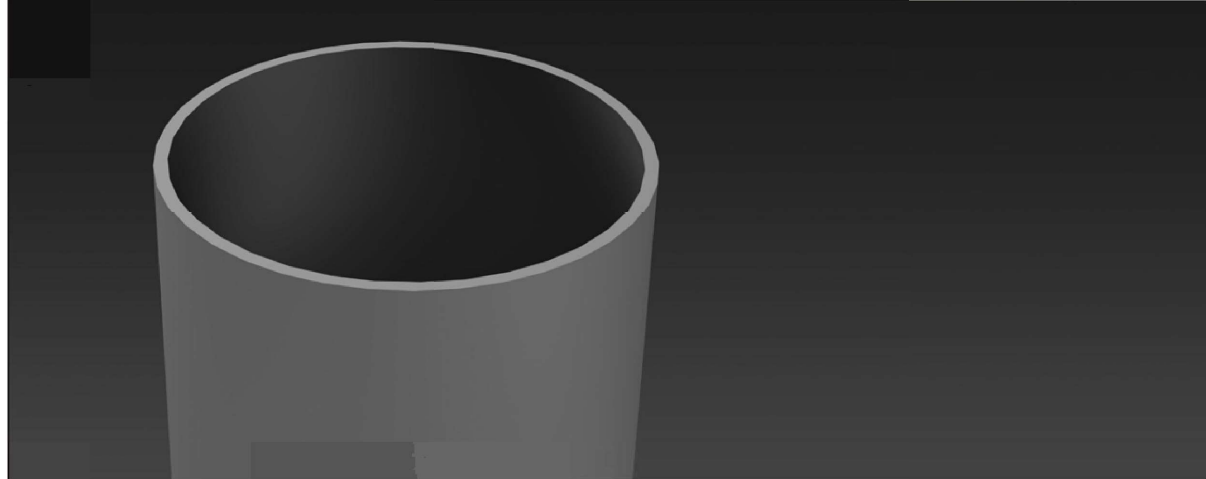
REV	DATE	DESCRIPTION	DRAWN BY	APPROVED BY
0	01/20/23	ISSUED FOR CONSTRUCTION	TM	



CLIENT: **G|S|E**
CONSULTING ENGINEERS
600 Azalea Rd. Mobile, AL 36609 (T) 251-460-4646 (F) 251-460-4649

PROJECT: **CA2-144**
3044 Sacramento St
Placerville, CA 95667
POLE BASE DETAIL

DRAWN: TGM	CHECKED:	APPROVED:
DATE: 01/20/23	SCALE: 3/4" = 1'-0"	
DRAWING NUMBER: CA2-144-1	REVISION: 0	



Height
10' - 30'

Pole Shaft

The pole shaft material is a weldable grade hot rolled commercial quality steel tubing with a minimum yield of 46,000 psi. Conforms to ASTM A500 Grade B Standards. Poles have ground lug welded inside hand-hole opposite side of the hand-hole. Pole shaft is welded to base plate on top and bottom of base plate.

Base Plate

The Base Plate is manufactured from structural hot rolled steel that meets or exceeds a minimum yield strength of 36,000 psi, conforms the ASTM-A36 standards. Base Plate vary in size from 1" thick for poles 21 feet and over, 3/4" thick for poles 10 to 20 feet.

Anchor Bolts

All anchor bolts are hot dipped galvanized steel and come with two galvanized nuts and washers per bolt. Minimum yield strength 50,000 psi. Anchor bolts are not included for Custom Bolt Circle.

Base Cover

All base covers are fabricated two-piece 6063 aluminum and powder coated to match the pole. Square base cover comes standard, Round base cover optional.

Hand-Hole

A reinforced hand-hole is 12" on center from the base plate and is constructed of 3" x 5" rectangular steel tubing which is welded to pole shaft for added strength. The hand-hole covers are provided with internal bridge support and powder coated to match pole finish.

Pole Cap

All poles come with a removable polymer pole cap installed. All pole caps are black finish.

Finish

All poles are treated with shot blast media for a near white finish, power blasted with 100 psi prior to powder coat application. Electrostatically applied polyester powder coat with a 3 to 5 mil thickness for maximum adherence.

Marine Grade Finish

All poles are washed through a 5-stage cleaning system with a deionized rinse, a 3 to 5 mils zinc rich durable polyester primer powder coat, followed by a 3 to 5 mils super durable polyester powder coat finish.

Galvanized Finish

All poles are Hot Dipped Galvanized in a multi stage process. Galvanizing Specification, Zinc (Hot Dipped Galvanized) per ASTM A 123/A 123M - 02

Zinc coatings on threaded materials shall conform to specification A 153 / A 153M. The coating shall be continuous and reasonably smooth and uniform in thickness and in weight.

Galvanizing Adherence - The Zinc coating shall withstand handling consistent with the nature and thickness of the coating and normal use of the article without peeling or flaking.

Galvanized Under Powder

Galvanized Under Powder (GUP) adheres to above galvanized specification, and the second stage is a light sand blast on the outside of the pole, third stage is a 3-5 mils polyester powder coat finish for maximum adherence.

Vibration Dampener

The Vibration Dampener is factory installed. The Vibration Dampener consists of a rugged galvanized chain coated with heavy duty polyester tubing that is factory secured at the bottom 2-3rds of the pole and field secured by contractor at the base during installation.



Project Name:

Type:

RSSP ORDERING GUIDE

Cat#	Height	Pole Dimension	Gauge	Base Pattern
Round Straight Steel Pole (RSSP)	10' (10)	4" Round (4R)	.120 Wall Thickness (11C)	(10'-20') 9"- 10 3/8" Bolt Circle (9BC)
	12' (12)			
	14' (14)			
	16' (16)	5" Round (5R)	.180 Wall Thickness (7G)	(22'-30') 11 1/2"- 14" Bolt Circle (12BC)
	18' (18)			
	20' (20)	6" Round (6R)		Custom Bolt Circle (CBC) * Consult Factory
	22' (22)			
	24' (24)			
	25' (25)			
	26' (26)			
28' (28)				
30' (30)				

Mounting

- Single (SGL)
- Double (D-90) (D-180)
- Triple (T-90) (T-120)
- Quad (QD)
- No Drill (ND)
*Tenon Option
- Tenon
- 2 3/8" Round (T2R)
- 3" Round (T3R)
- 3 1/2" Round (T312R)
- 4 1/2" Round (T412R)

Color

- Bronze Textured (BRZ)
- White Textured (WHT)
- Smooth White Gloss (SWT)
- Silver (SVR)
- Green Textured (GRN)
- Hunter Green Textured (HGN)
- Black Textured (BLK)
- Smooth Black Gloss (SBK)
- Graphite Textured (GPH)
- Grey Textured (GRY)
- Custom (CS)

Bolts

- 3/4" x 30" (3430)
- 1" x 36" (136)
- Less Anchor Bolts (LAB)

Options

- GFI Kit (GFI20A)
20 Amp Weather Proof Receptacle
- GFI Provision Only (PROV)
- Galvanized (GLV)
- Round Base Cover (RBC)
- Galvanized Under Powder (GUP)
- 1/2" Coupling (COUP)
* Specify Location
- Vibration Dampener (VD)
- Extra Hand Hole (XHH)
* Specify Location
- Marine Grade Finish (MGF)

NOTE:
PRODUCT SHEETS PROVIDED FOR INFORMATION ONLY

REV	DATE	DESCRIPTION	DRAWN BY	APPROVED BY
0	01/20/23	ISSUED FOR CONSTRUCTION	TM	



CLIENT:



600 Azalea Rd. Mobile, AL 36609 (T) 251-460-4646 (F) 251-460-4649

PROJECT:

CA2-144
3044 Sacramento St
Placerville, CA 95667

POLE BASE DETAIL

DRAWN: TGM	CHECKED:	APPROVED:
DATE: 01/20/23	SCALE: 3/4"=1'-0"	
DRAWING NUMBER: CA2-144-2	REVISION: 0	

Max. allowable EPA - RSSP poles (per AASHTO LRFDLTS-1)

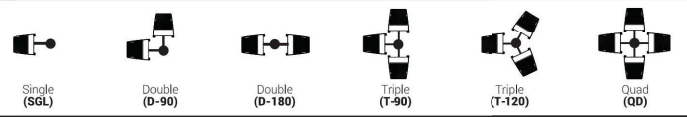
Catalog Number	Shaft Length, ft	Wall thickness, in.	Shaft dia., in.	Base Plate, in.	Bolt Circle, in.	Bolts	90 mph	100 mph	110 mph	115 mph	120 mph	130 mph	140 mph	150 mph	160 mph	170 mph	180 mph	Max. wt., lb		
RSSP-10-4R-11G-9BC-3430	10	0.120	4	9"sq. x 3/4"	9-3/16	3/4"x3/8"	9.0	225	9.0	225	9.0	225	9.0	225	9.0	225	7.8	195	7.2	180
RSSP-12-4R-11G-9BC-3430	12	0.120	4	9"sq. x 3/4"	9-3/16	3/4"x3/8"	9.0	225	9.0	225	9.0	225	9.0	225	9.0	225	7.8	195	6.8	170
RSSP-14-4R-11G-9BC-3430	14	0.120	4	9"sq. x 3/4"	9-3/16	3/4"x3/8"	9.0	225	9.0	225	9.0	225	9.0	225	8.8	220	7.2	180	6.0	150
RSSP-16-4R-11G-9BC-3430	16	0.120	4	9"sq. x 3/4"	9-3/16	3/4"x3/8"	9.0	225	9.0	225	9.0	225	9.0	225	8.4	210	6.4	160	5.4	110
RSSP-18-4R-11G-9BC-3430	18	0.120	4	9"sq. x 3/4"	9-3/16	3/4"x3/8"	9.0	225	9.0	225	8.6	215	7.6	190	6.4	160	5.2	130	4.0	100
RSSP-20-4R-11G-9BC-3430	20	0.120	4	9"sq. x 3/4"	9-3/16	3/4"x3/8"	9.0	225	9.0	225	8.8	220	6.6	165	6.0	150	4.8	120	3.8	95
RSSP-20-4R-7G-9BC-3430	20	0.188	4	9"sq. x 3/4"	9-3/16	3/4"x3/8"	9.0	225	9.0	225	9.0	225	9.0	225	7.0	175	5.8	145	4.4	110
RSSP-20-5R-11G-9BC-3430	20	0.120	5	9"sq. x 3/4"	9-3/16	3/4"x3/8"	9.0	225	9.0	225	9.0	225	9.0	225	8.0	200	6.4	160	5.4	135
RSSP-20-5R-7G-9BC-3430	20	0.120	5	9"sq. x 3/4"	9-3/16	3/4"x3/8"	9.0	225	9.0	225	9.0	225	9.0	225	9.0	225	8.6	215	7.2	180
RSSP-22-4R-11G-12BC-136	22	0.120	4	12"sq. x 1"	12-3/4	1"x3/6"	9.0	225	8.7	218	5.9	148	4.3	108	3.5	88	2.5	63	1.7	60
RSSP-22-4R-7G-12BC-136	22	0.188	4	12"sq. x 1"	12-3/4	1"x3/6"	9.0	225	9.0	225	8.1	203	7.3	183	6.3	158	4.7	118	3.1	78
RSSP-22-5R-11G-12BC-136	22	0.120	5	12"sq. x 1"	12-3/4	1"x3/6"	9.0	225	9.0	225	8.5	213	7.3	183	6.1	153	4.9	123	4.3	108
RSSP-22-5R-7G-12BC-136	22	0.188	5	12"sq. x 1"	12-3/4	1"x3/6"	9.0	225	9.0	225	9.0	225	9.0	225	9.0	225	7.9	198	6.7	168
RSSP-25-4R-11G-12BC-136	25	0.120	4	12"sq. x 1"	12-3/4	1"x3/6"	9.0	225	6.1	153	3.9	98	2.5	63	1.5	60	0.9	60	0.3	60
RSSP-25-4R-7G-12BC-136	25	0.188	4	12"sq. x 1"	12-3/4	1"x3/6"	9.0	225	9.0	225	8.3	208	6.1	153	5.1	128	4.3	108	2.9	73
RSSP-25-5R-11G-12BC-136	25	0.120	5	12"sq. x 1"	12-3/4	1"x3/6"	9.0	225	9.0	225	8.3	208	5.9	148	4.9	123	4.1	103	2.9	73
RSSP-25-5R-7G-12BC-136	25	0.188	5	12"sq. x 1"	12-3/4	1"x3/6"	9.0	225	9.0	225	9.0	225	9.0	225	8.5	213	6.9	173	5.7	143
RSSP-26-4R-11G-12BC-136	26	0.120	4	12"sq. x 1"	12-3/4	1"x3/6"	8.7	218	5.7	143	3.3	83	1.7	60	1.3	60	0.7	60	-	-
RSSP-26-4R-7G-12BC-136	26	0.188	4	12"sq. x 1"	12-3/4	1"x3/6"	9.0	225	9.0	225	7.5	188	5.1	128	4.5	113	3.7	93	2.3	60
RSSP-26-5R-11G-12BC-136	26	0.120	5	12"sq. x 1"	12-3/4	1"x3/6"	9.0	225	9.0	225	7.7	193	4.9	123	4.1	103	3.1	78	2.3	60
RSSP-26-5R-7G-12BC-136	26	0.188	5	12"sq. x 1"	12-3/4	1"x3/6"	9.0	225	9.0	225	9.0	225	9.0	225	8.7	218	7.3	183	5.9	148
RSSP-28-4R-7G-12BC-136	28	0.188	4	12"sq. x 1"	12-3/4	1"x3/6"	9.0	225	9.0	225	6.3	158	4.1	103	2.9	73	2.5	63	0.9	60
RSSP-28-5R-11G-12BC-136	28	0.120	5	12"sq. x 1"	12-3/4	1"x3/6"	9.0	225	9.0	225	5.7	143	3.7	93	2.7	68	2.1	60	1.1	60
RSSP-28-5R-7G-12BC-136	28	0.188	5	12"sq. x 1"	12-3/4	1"x3/6"	9.0	225	9.0	225	8.3	208	6.9	173	5.7	143	4.5	113	3.5	88
RSSP-28-6R-7G-12BC-136	28	0.188	6	12"sq. x 1"	12-3/4	1"x3/6"	9.0	225	9.0	225	7.9	198	7.3	183	6.5	163	4.9	123	4.3	108
RSSP-30-5R-11G-12BC-136	30	0.120	5	12"sq. x 1"	12-3/4	1"x3/6"	9.0	225	4.1	103	1.9	60	1.3	60	0.5	60	-	-	-	-
RSSP-30-6R-11G-12BC-136	30	0.120	6	12"sq. x 1"	12-3/4	1"x3/6"	9.0	225	7.1	178	9.0	225	6.3	158	5.1	128	4.7	118	3.7	93
RSSP-30-5R-7G-12BC-136	30	0.188	5	12"sq. x 1"	12-3/4	1"x3/6"	9.0	225	9.0	225	6.3	158	5.3	133	4.1	103	3.1	78	2.3	60
RSSP-30-6R-7G-12BC-136	30	0.188	6	12"sq. x 1"	12-3/4	1"x3/6"	9.0	225	9.0	225	8.2	205	6.2	155	5.4	135	5.0	125	4.0	100

*Pole Assemblies With EPA>9.0 Require Specific Review

*Anchor Bolts are NOT included with Custom Bolt Circle.
*Do NOT pour concrete referencing this drawing. Consult Factory.

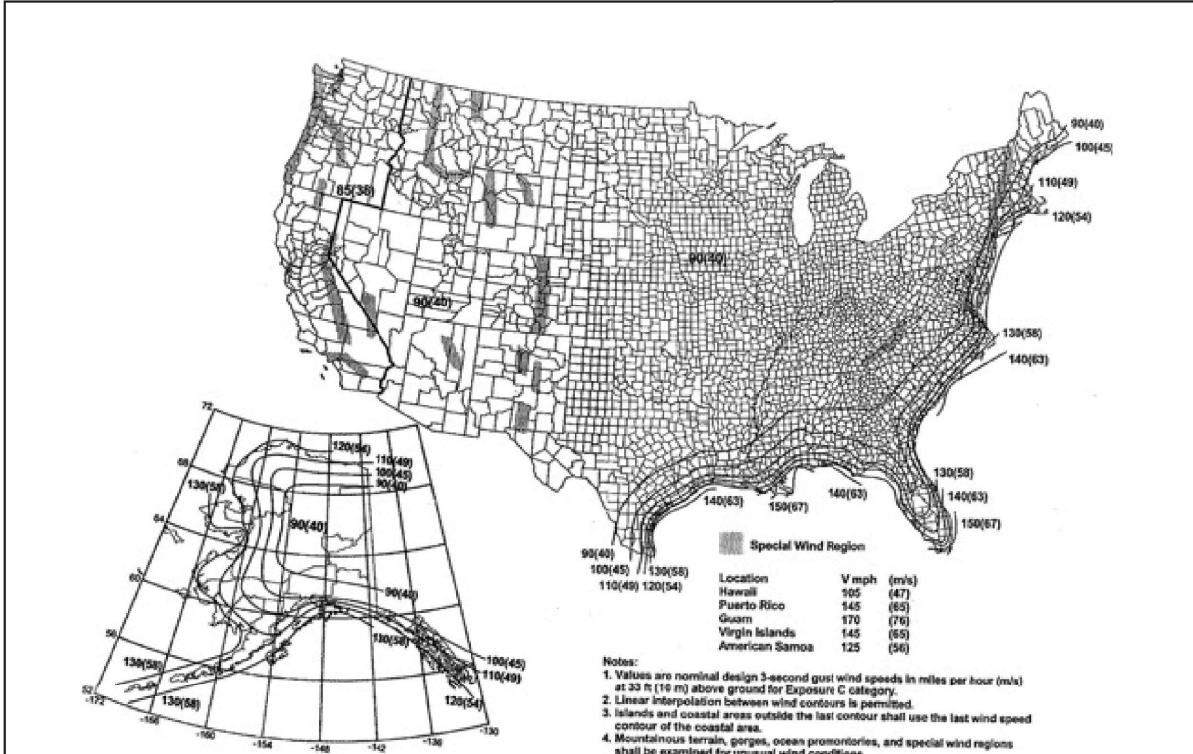
*All wind loading calculations are based on sustained wind force plus an additional 1.3 gust.

MOUNTING CONFIGURATION

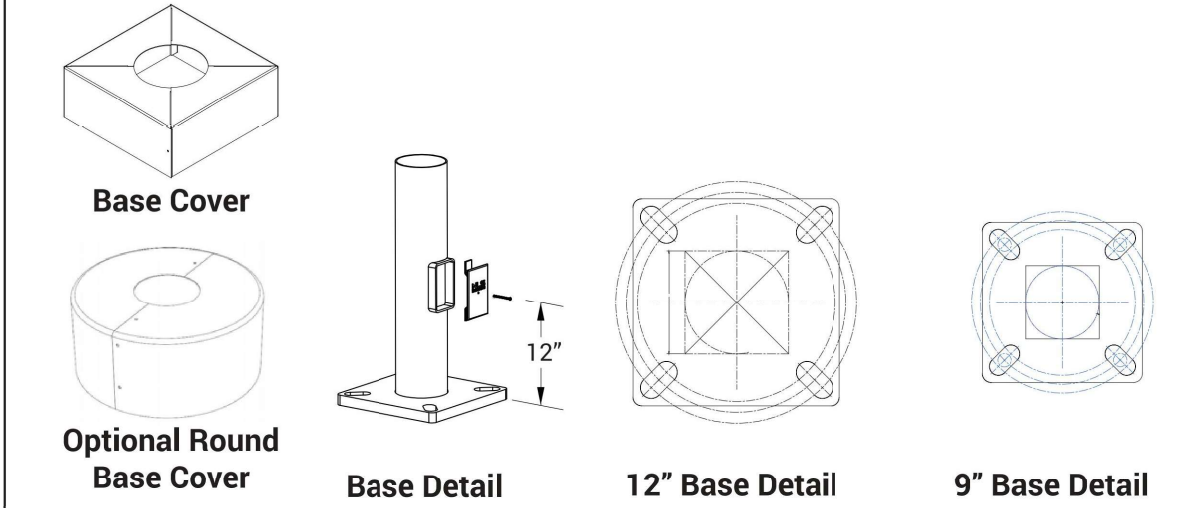


NLS LIGHTING 701 Kingshill Place, Carson, CA 90746 Call Us Today (310) 341-2037 nlsighting.com

0	01/20/23	ISSUED FOR CONSTRUCTION	TM	
REV	DATE	DESCRIPTION	DRAWN BY	APPROVED BY



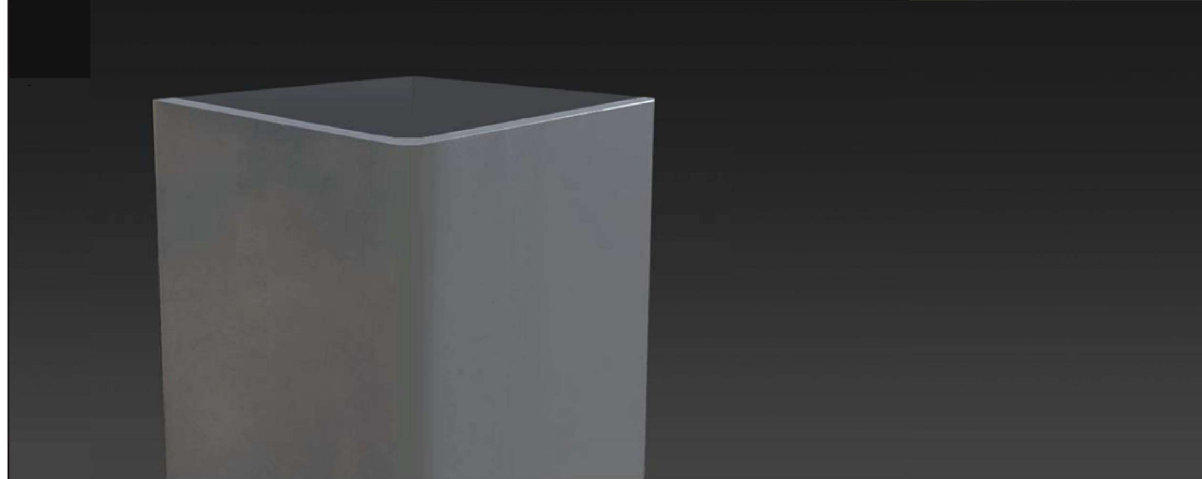
- 1) All wind load calculations are based on sustained wind force plus and additional 1.3 gust
- 2) Wind Map is to be used as a reference only. Please coordinate with local agencies for further review.
- 3) Wind Map values are based on a 50 year mean recurrence. These values do not account for severe conditions, such as hurricanes, tornadoes, etc...
- 4) For review of poles with additional configurations (arms, banners, shorter/longer pole lengths, etc...), please contact factory.



NLS LIGHTING 701 Kingshill Place, Carson, CA 90746 Call Us Today (310) 341-2037 nlsighting.com

NOTE: PRODUCT SHEETS PROVIDED FOR INFORMATION ONLY

	CLIENT:		PROJECT:	CA2-144 3044 Sacramento St Placerville, CA 95667	DRAWN:	TGM	CHECKED:		APPROVED:	
	DATE:		01/20/23	SCALE:	3/4" = 1'-0"	DRAWING NUMBER:	CA2-144-3	REVISION:	0	



Height
10' - 35'

Pole Shaft
The pole shaft material is a weldable grade hot rolled commercial quality carbon steel tubing with a minimum yield of 46,000 psi. Conforms to ASTM A500 Grade B Standards. Poles have ground lug welded inside hand-hole opposite side of the hand-hole. Pole shaft is welded to base plate on top and bottom of base plate.

Base Plate
The Base Plate is manufactured from structural hot rolled steel that meets or exceeds a minimum yield strength of 36,000 psi, conforms the ASTM-A36 standards. Base Plate vary in size from 1" thick for poles 21 feet and over, 3/4" thick for poles 10 to 20 feet.

Anchor Bolts
All anchor bolts are hot dipped galvanized steel and come with two galvanized nuts and washers per bolt. Minimum yield strength 50,000 psi. Anchor bolts are not included for Custom Bolt Circle.

Base Cover
All base covers are fabricated two-piece 6063 aluminum and powder coated to match the pole.

Hand-Hole
A reinforced hand-hole is 12" on center from the base plate and is constructed of 3"x 5" rectangular steel tubing which is welded to pole shaft for added strength. The hand-hole covers are provided with internal bridge support and powder coated to match pole finish.

Pole Cap
All poles come with a removable polymer pole cap installed. All pole caps are black finish.

Finish
All poles are treated with shot blast media for a near white finish, power blasted with 100 psi prior to powder coat application. Electrostatically applied polyester powder coat with a 3 to 5 mil thickness for maximum adherence.

Marine Grade Finish
All poles are washed through a 5-stage cleaning system with a deionized rinse, a 3 to 5 mils zinc rich durable polyester primer powder coat, followed by a 3 to 5 mils super durable polyester powder coat finish.

Galvanized Finish
All poles are Hot Dipped Galvanized in a multi stage process. Galvanizing Specification, Zinc (Hot Dipped Galvanized) per ASTM A 123/A 123M - 02

Zinc coatings on threaded materials shall conform to specification A 153 /A 153M. The coating shall be continuous and reasonably smooth and uniform in thickness and in weight.

Galvanizing Adherence - The Zinc coating shall withstand handling consistent with the nature and thickness of the coating and normal use of the article without peeling or flaking.

Galvanized Under Powder
Galvanized Under Powder (GUP) adheres to above galvanized specification, and the second stage is a light sand blast on the outside of the pole, third stage is a 3-5 mils polyester powder coat finish for maximum adherence.

Vibration Dampener
The Vibration Dampener is factory installed. The Vibration Dampener consists of a rugged galvanized chain coated with heavy duty polyester tubing that is factory secured at the bottom 2-3rds of the pole and field secured by contractor at the base during installation.



Project Name: _____ Type: _____

SSSP ORDERING GUIDE

Cat#	Height	Pole Dimension	Gauge	Base Pattern
Square Straight Steel Pole (SSSP)	10' (10)	4" Square (4S)	.120 Wall Thickness (11G)	(10'-20') 9"- 10 3/8" Bolt Circle (9BC)
	12' (12)			
	14' (14)			
	16' (16)	5" Square (5S)	.180 Wall Thickness (7G)	(22'-35') 11 1/2"- 14" Bolt Circle (12BC)
	18' (18)			
	20' (20)			
	22' (22)	6" Square (6S)		Custom Bolt Circle (CBC) <i>* Consult Factory</i>
	24' (24)			
	25' (25)			
	26' (26)			
	28' (28)			
	30' (30)			
	35' (35)			

Mounting	Color	Bolts	Options
Single (SGL)	Bronze Textured (BRZ)	3/4" x 30" (3430)	GFI Kit (GFI20A) 20 Amp Weather Proof Receptacle
Double (D-90) (D-180)	White Textured (WHT)	1" x 36" (136)	GFI Provision Only (PROV)
Triple (T-90)	Smooth White Gloss (SWT)	Less Anchor Bolts (LAB)	Galvanized (GLV)
Quad (QD)	Silver (SVR)		Galvanized Under Powder (GUP)
No Drill (ND) <i>*Tenon Option</i>	Green Textured (GRN)		1/2" Coupling (COUP) <i>* Specify Location</i>
Tenon	Hunter Green Textured (HGN)		Vibration Dampener (VD)
2 3/8" Round (T2R)	Black Textured (BLK)		Extra Hand Hole (XHH) <i>* Specify Location</i>
3" Round (T3R)	Smooth Black Gloss (SBK)		Marine Grade Finish (MGF)
3 1/2" Round (T312R)	Graphite Textured (GPH)		
4 1/2" Round (T412R)	Grey Textured (GRY)		
3 1/2" Square (T312S)	Custom (CS)		
4 1/2" Square (T412S)			
5 1/2" Square (T512S)			

NOTE: PRODUCT SHEETS PROVIDED FOR INFORMATION ONLY

REV. 07.27.22

2

0	01/20/23	ISSUED FOR CONSTRUCTION	TM	
REV	DATE	DESCRIPTION	DRAWN BY	APPROVED BY



CLIENT: **G|S|E** CONSULTING ENGINEERS
 GSEeng.com
 600 Azalea Rd. Mobile, AL 36609 (T) 251-460-4646 (F) 251-460-4649

PROJECT: **CA2-144**
 3044 Sacramento St
 Placerville, CA 95667
POLE BASE DETAIL

DRAWN: TGM	CHECKED: .	APPROVED: .
DATE: 01/20/23	SCALE: 3/4" = 1'-0"	
DRAWING NUMBER: CA2-144-4	REVISION: 0	

Max. allowable EPA - SSSP poles (per AASHTO LRFDLTS-1)

Catalog Number	Shaft Length, ft	Wall thickness, in.	Shaft dia., in.	Base Plate, in.	Bolt Circle, in.	Bolts	Ø mph	90 mph	100 mph	110 mph	115 mph	120 mph	130 mph	140 mph	150 mph	160 mph	170 mph	180 mph	Max. wt., lb	
SSSP-10-4S-11G-9BC-3430	10	0.120	4	9"sq. x 3/4"	9-3/16	3/4"x30"	90	225	9.0	225	9.0	225	9.0	225	9.0	225	9.0	225	9.0	225
SSSP-12-4S-11G-9BC-3430	12	0.120	4	9"sq. x 3/4"	9-3/16	3/4"x30"	90	225	9.0	225	9.0	225	9.0	225	9.0	225	9.0	225	9.0	225
SSSP-14-4S-11G-9BC-3430	14	0.120	4	9"sq. x 3/4"	9-3/16	3/4"x30"	90	225	9.0	225	9.0	225	9.0	225	9.0	225	9.0	198	6.9	173
SSSP-15-4S-7G-9BC-3430	15	0.188	4	9"sq. x 3/4"	9-3/16	3/4"x30"	90	225	9.0	225	9.0	225	9.0	225	9.0	225	9.0	225	9.0	225
SSSP-16-4S-11G-9BC-3430	16	0.120	4	9"sq. x 3/4"	9-3/16	3/4"x30"	90	225	9.0	225	9.0	225	9.0	225	9.0	225	8.5	213	6.9	173
SSSP-18-4S-11G-9BC-3430	18	0.120	4	9"sq. x 3/4"	9-3/16	3/4"x30"	90	225	9.0	225	9.0	225	9.0	225	9.0	225	7.7	193	6.3	158
SSSP-20-4S-11G-9BC-3430	20	0.120	4	9"sq. x 3/4"	9-3/16	3/4"x30"	90	225	9.0	225	9.0	225	9.0	225	9.0	225	7.9	198	5.7	143
SSSP-20-4S-7G-9BC-3430	20	0.188	4	9"sq. x 3/4"	9-3/16	3/4"x30"	90	225	9.0	225	9.0	225	9.0	225	9.0	225	7.9	198	5.9	148
SSSP-20-5S-11G-9BC-3430	20	0.120	5	9"sq. x 3/4"	9-3/16	3/4"x30"	90	225	9.0	225	9.0	225	9.0	225	9.0	225	6.2	155	4.2	105
SSSP-20-5S-7G-9BC-3430	20	0.188	5	9"sq. x 3/4"	9-3/16	3/4"x30"	90	225	9.0	225	9.0	225	9.0	225	9.0	225	6.2	155	4.2	105
SSSP-22-4S-11G-12BC-136	22	0.120	4	12"sq. x 1"	12-3/4	1"x36"	90	225	9.0	225	9.0	225	8.7	218	7.3	183	6.1	153	4.1	103
SSSP-22-4S-7G-12BC-136	22	0.188	4	12"sq. x 1"	12-3/4	1"x36"	90	225	9.0	225	9.0	225	9.0	225	9.0	225	7.9	198	6.1	153
SSSP-22-5S-11G-12BC-136	22	0.120	5	12"sq. x 1"	12-3/4	1"x36"	90	225	6.5	163	9.0	225	9.0	225	9.0	225	8.1	203	5.7	99
SSSP-22-5S-7G-12BC-136	22	0.188	5	12"sq. x 1"	12-3/4	1"x36"	90	225	9.0	225	9.0	225	9.0	225	9.0	225	9.0	225	7.1	178
SSSP-24-4S-11G-12BC-136	24	0.120	4	12"sq. x 1"	12-3/4	1"x36"	90	225	9.0	225	9.0	225	6.7	168	5.7	143	4.3	108	2.5	63
SSSP-24-4S-7G-12BC-136	24	0.188	4	12"sq. x 1"	12-3/4	1"x36"	90	225	9.0	225	9.0	225	9.0	225	8.7	218	6.5	162	4.3	108
SSSP-24-5S-11G-12BC-136	24	0.120	5	12"sq. x 1"	12-3/4	1"x36"	90	225	6.1	153	9.0	225	9.0	225	8.2	205	5.8	145	3.4	82
SSSP-24-5S-7G-12BC-136	24	0.188	5	12"sq. x 1"	12-3/4	1"x36"	90	225	9.0	225	9.0	225	9.0	225	9.0	225	9.0	225	7.0	175
SSSP-25-4S-11G-12BC-136	25	0.120	4	12"sq. x 1"	12-3/4	1"x36"	90	225	9.0	225	9.0	225	6.0	150	4.8	120	3.8	95	2.0	60
SSSP-25-4S-7G-12BC-136	25	0.188	4	12"sq. x 1"	12-3/4	1"x36"	90	225	9.0	225	9.0	225	9.0	225	8.0	200	5.6	140	3.4	85
SSSP-25-5S-11G-12BC-136	25	0.120	5	12"sq. x 1"	12-3/4	1"x36"	90	225	9.0	225	9.0	225	8.6	215	7.0	175	4.4	110	2.4	60
SSSP-25-5S-7G-12BC-136	25	0.188	5	12"sq. x 1"	12-3/4	1"x36"	90	225	9.0	225	9.0	225	9.0	225	9.0	225	8.6	215	6.2	155
SSSP-26-4S-11G-12BC-136	26	0.120	4	12"sq. x 1"	12-3/4	1"x36"	90	225	9.0	225	7.7	193	5.1	128	3.7	93	2.7	68	1.3	60
SSSP-26-4S-7G-12BC-136	26	0.188	4	12"sq. x 1"	12-3/4	1"x36"	90	225	9.0	225	9.0	225	9.0	225	6.7	168	4.7	118	2.9	73
SSSP-26-5S-11G-12BC-136	26	0.120	5	12"sq. x 1"	12-3/4	1"x36"	90	225	9.0	225	9.0	225	7.7	193	5.9	148	3.7	93	1.7	60
SSSP-26-5S-7G-12BC-136	26	0.188	5	12"sq. x 1"	12-3/4	1"x36"	90	225	9.0	225	9.0	225	9.0	225	9.0	225	7.1	178	5.1	128
SSSP-28-4S-7G-12BC-136	28	0.188	4	12"sq. x 1"	12-3/4	1"x36"	90	225	9.0	225	9.0	225	7.5	188	6.1	153	5.1	128	2.7	68
SSSP-28-5S-11G-12BC-136	28	0.120	5	12"sq. x 1"	12-3/4	1"x36"	90	225	9.0	225	9.0	225	7.0	175	5.4	135	4.0	100	1.4	60
SSSP-28-5S-7G-12BC-136	28	0.188	5	12"sq. x 1"	12-3/4	1"x36"	90	225	9.0	225	9.0	225	9.0	225	7.8	195	4.8	120	3.0	75
SSSP-28-6S-7G-12BC-136	28	0.188	6	12"sq. x 1"	12-3/4	1"x36"	90	225	9.0	225	9.0	225	9.0	225	9.0	225	7.5	180	4.9	123
SSSP-30-5S-11G-12BC-136	30	0.120	5	12"sq. x 1"	12-3/4	1"x36"	90	225	9.0	225	8.3	208	4.7	118	2.9	73	1.9	60	-	-
SSSP-30-5S-7G-12BC-136	30	0.188	5	12"sq. x 1"	12-3/4	1"x36"	90	225	9.0	225	9.0	225	9.0	225	8.3	208	5.3	133	2.7	68
SSSP-30-6S-7G-12BC-136	30	0.188	5	12"sq. x 1"	12-3/4	1"x36"	90	225	9.0	225	9.0	225	9.0	225	9.0	225	7.5	188	4.5	113
SSSP-32-5S-7G-12BC-136	32	0.188	6	12"sq. x 1"	12-3/4	1"x36"	90	225	9.0	225	9.0	225	9.0	225	8.3	208	5.5	138	2.7	68
SSSP-32-6S-7G-12BC-136	32	0.188	5	12"sq. x 1"	12-3/4	1"x36"	90	225	9.0	225	9.0	225	9.0	225	9.0	225	7.5	188	4.5	113
SSSP-35-5S-7G-12BC-136	35	0.188	5	12"sq. x 1"	12-3/4	1"x36"	90	225	9.0	225	9.0	225	9.0	225	8.3	208	5.5	138	2.7	68
SSSP-35-6S-7G-12BC-136	35	0.188	6	12"sq. x 1"	12-3/4	1"x36"	90	225	9.0	225	9.0	225	9.0	225	9.0	225	7.5	188	4.5	113

*Note Assemblies With EPA>9.0 Require Specific Review

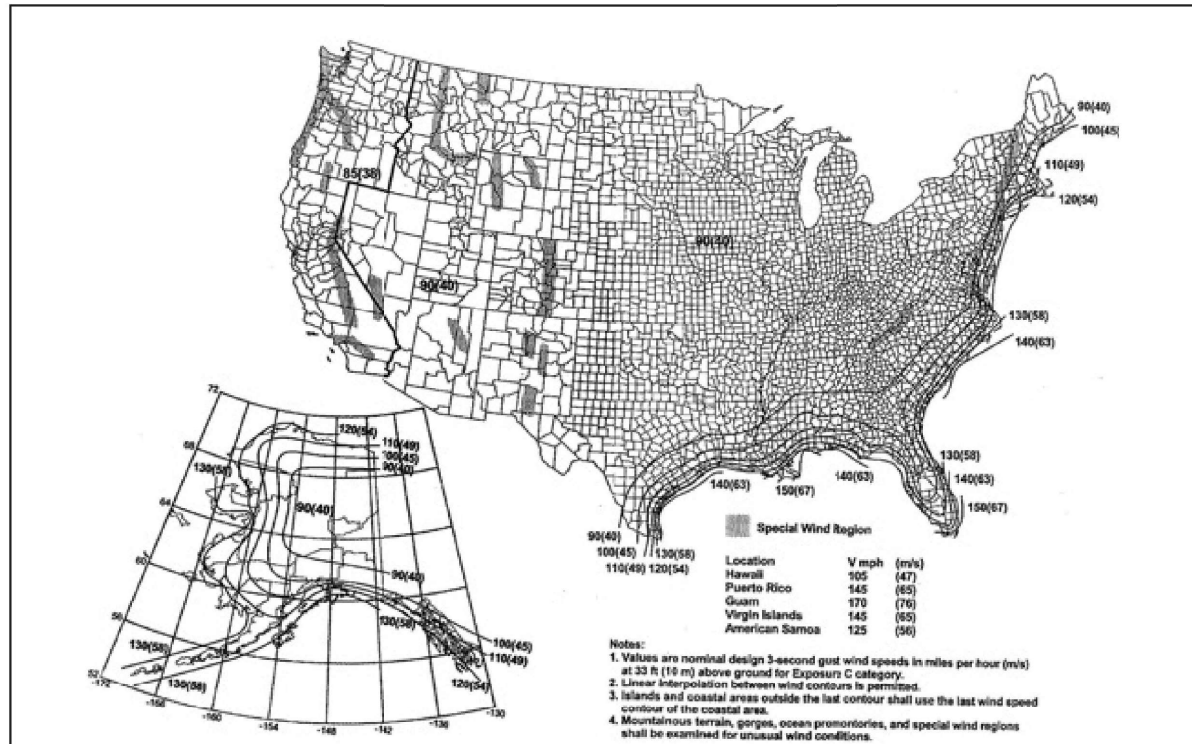
*Anchor Bolts are NOT included with Custom Bolt Circle.
*Do NOT pour concrete referencing this drawing. Consult Factory.

*All wind loading calculations are based on sustained wind force plus an additional 1.3 gust.

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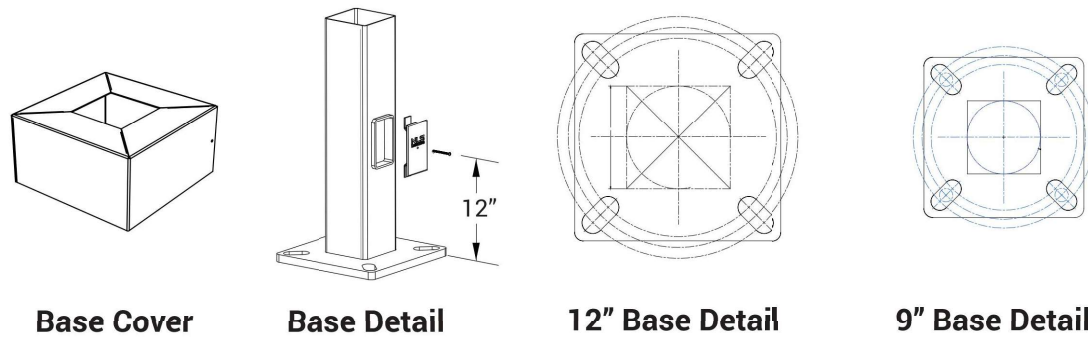
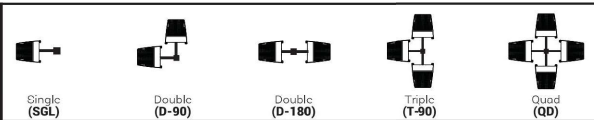
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3



- 1) All wind load calculations are based on sustained wind force plus and additional 1.3 gust
- 2) Wind Map is to be used as a reference only. Please coordinate with local agencies for further review.
- 3) Wind Map values are based on a 50 year mean recurrence. These values do not account for severe conditions, such as hurricanes, tornadoes, etc...
- 4) For review of poles with additional configurations (arms, banners, shorter/longer pole lengths, etc...), please contact factory.

MOUNTING CONFIGURATION



NLS LIGHTING 701 Kingshill Place, Carson, CA 90746
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NOTE:
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FOR INFORMATION ONLY

REV	DATE	DESCRIPTION	DRAWN BY	APPROVED BY
0	01/20/23	ISSUED FOR CONSTRUCTION	TM	



CLIENT: **G|S|E** CONSULTING ENGINEERS
GSEeng.com
600 Azalea Rd. Mobile, AL 36609 (T) 251-460-4646 (F) 251-460-4649

PROJECT: **CA2-144**
3044 Sacramento St
Placerville, CA 95667
POLE BASE DETAIL

DRAWN: TGM	CHECKED:	APPROVED:
DATE: 01/20/23	SCALE: 3/4"=1'-0"	
DRAWING NUMBER: CA2-144-5	REVISION: 0	