

STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

Outdoor Lighting

CERTIFICATE OF COMPLIANCE

NRCC-LTD-C

Report Page: (Page 2 of 7)

Project Name: San Bernardino County Fire Department: Fire Station 227

Date Prepared: 3/7/2025

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv										Compliance Results		
01	02	03	04	05	06	07	08	09				
General Hardscape Allowance 140.7(d)1 / 170.2(e)6 (See Table I)	Per Application 140.7(d)2 / 170.2(e)6 (See Table J)	Sales Frontage 140.7(d)2 (See Table K)	Ornamental 140.7(d)2 / 170.2(e)6 (See Table L)	Per Specific Area 140.7(d)2 / 170.2(e)6 (See Table M)	Existing Power Allowance 141.0(b)2L / 180.2(b)4Bv (See Table N)	Total Allowed (Watts)	Total Actual (Watts)	07 must be >= 08				
1,055	---	---	---	368	---	1,423	1,048	COMPLIES				
Shielding Compliance (See Table G for Details)										N/A		
Controls Compliance (See Table H for Details)										Not applicable		

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

Generated Date/Time:

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

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STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

Outdoor Lighting

CERTIFICATE OF COMPLIANCE

NRCC-LTD-C

Report Page: (Page 3 of 7)

Project Name: San Bernardino County Fire Department: Fire Station 227

Date Prepared: 3/7/2025

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are installed in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H, and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Complete Luminaire Description	Watts per luminaire ^{1,2}	How is Wattage determined	Total Number Luminaires ²	Luminaire Status ³	Excluded per 140.7(a) / 170.2(e)6A	Design Watts	Cutoff Req. > 6,200 initial lumen output 130.2(b) / 160.5(c)1 ⁴	Field Inspector
F1	54w LED Wall Mounted Area Light	54	Linear	Mfr. Spec.	4	New	216	NA < 6200 lumens	Pass
F11	104W POLE	104	Linear	Mfr. Spec.	3	New	312	NA < 6200 lumens	
F12	23w LED Wall Mounted SCONCE Light	23	Linear	Mfr. Spec.	16	New	368	NA < 6200 lumens	
F14	38w LED Chain Hung Vapor Tight Light	38	Linear	Mfr. Spec.	4	New	152	NA < 6200 lumens	
Total Design Watts:								1048	

¹ NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
EX: Luminaire is lighting a statue; EXCEPTION 2 to 130.2(b)

² FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)

³ For linear luminaires, wattage should be indicated as W/ft instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.

⁴ Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.

⁵ Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b) / 160.5(c)

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STATE OF CALIFORNIA

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NRCC-LTD-C

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Date Prepared: 3/7/2025

G. SHIELDING REQUIREMENTS (BUG)

This section does not apply to this project.

H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.

Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit

Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings

01	02	03	04	05
Area Description	Shut-Off 130.2(c)1 / 160.5(c)	Auto-Schedule 130.2(c)2 / 160.5(c)	Motion Sensor 130.2(c)3 / 160.5(c)	Field Inspector
				Pass
				Fail

¹ FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.

² Authority having jurisdiction may ask for cut sheets or other documentation to confirm compliance of light source.

³ Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from II and III.

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STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

Electrical Power Distribution

CERTIFICATE OF COMPLIANCE

NRCC-ELC-E

Report Page: (Page 5 of 5)

Project Name: San Bernardino County Fire Department: Fire Station 227

Date Prepared: 3/7/2025

H. VOLTAGE DROP

Electrical Service Designation/Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method	Location of Voltage Drop Calculations ¹	Sheet Number for Voltage Drop Calculations in Construction Documents	Field Inspector
MSA	☒ Voltage drop less than 5% ☐ Permitted by CA Elec Code (Exception to 130.5(c)*)	Attached	E4.1	Pass

^{*} NOTES: If "Permitted by CA Elec Code" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.

¹ FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".

I. CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES

This section does not apply to this project.

J. ELECTRIC READY BUILDINGS

This section does not apply to this project.

K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title

NRCC-ELC-E - Must be submitted for all buildings:

Generated Date/Time:

Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

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STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

Electrical Power Distribution

CERTIFICATE OF COMPLIANCE

NRCC-ELC-E

Report Page: (Page 5 of 5)

Project Name: San Bernardino County Fire Department: Fire Station 227

Date Prepared: 3/7/2025

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Documentation Author Signature:

Company: Salas O'Brien Engineers

Address: 3220 Executive Ridge, Suite 210

City/State/Zip: Vista CA 92081

Signature Date: 2025-03-07

CAV HERS Certification Identification (if applicable):

Phone: (760) 560-0100

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.

2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).

3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.

4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permits issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Ed David

Responsible Designer Signature: Eduardo O'Brien

Company: Salas O'Brien

Address: 3220 Executive Ridge, Suite 210

City/State/Zip: Vista CA 92081

Signature Date: 2025-03-07

License: E18809

Phone: (760) 560-0100

Generated Date/Time:

Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

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Compliance ID: EnergyPro-5511-0325-5616

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NRCC-ELC-E

Report Page: (Page 1 of 5)

Project Name: San Bernardino County Fire Department: Fire Station 227

Date Prepared: 3/7/2025

A. GENERAL INFORMATION

01	02	03	04	05	06	07
Project Location (city)	San Bernardino	Climate Zone	Occupancy Types Within Project:	1		

B. PROJECT SCOPE

This table includes electrical systems that are within the scope of the permit application.

01	02	03	04	05	06	07
Electrical Service Designation/Description	Scope of Work ¹	Rating ² (kVA)	Utility Provided Metering System Exception to 130.5(a) / 160.6(a) ³	System subject to CA Elec Code Article 517 Exception to 130.5(a) and (b)	Demand Response Controls	Provides power to dwelling units/common living areas only in multifamily occupancy
MSA	New electrical service equipment and meter	200	☐	☐	Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections 120.2 / 160.3, 130.1 / 160.5, and 130.3 / 160.5, and mechanical, indoor lighting, and sign lighting Certificate of Compliance documents will indicate when demand response controls are required.	☐

¹ FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c) / 160.6(c), no other requirements from 130.5 / 160.6 are required.

² If common use areas in a multifamily are submetered, rating is for submeter size serving common use areas.

³ Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.

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Project Name: San Bernardino County Fire Department: Fire Station 227

Date Prepared: 3/7/2025

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through J. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

01	02	03	04	05	06				
Service Electrical Metering 130.5(a) / 160.6(a) (See Table F)	AND	Separation for Monitoring 130.5(b) / 160.6(b) (See Table G)	AND	Voltage Drop 130.5(c) / 160.6(c) (See Table H)	AND	Controlled Receptacles 130.5(d) / 160.6(d) (See Table I)	AND	Electric Ready 160.9 (See Table J)	Compliance Results
Yes	AND	Yes	AND	Yes	AND	Yes	AND	Yes	COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. SERVICE ELECTRICAL METERING

This table includes new or replacement electrical service systems OR equipment to demonstrate compliance with 130.5(a) / 160.6(a). For multifamily occupancies, submetered systems that provide power to common use areas must meet the following metering requirements. Submetered systems providing power to dwelling units do not.

01	02	03	04	05		
Electrical Service Designation/Description	Rating ¹ (kVA)	Instantaneous Demand (kW)	Tracking kWh for user-defined period	kWh per rate period	Location of Requirements in Construction Documents	Field Inspector
MSA	200	☒	☐	☒	E4.1 and E4.3	Pass

¹ FOOTNOTES: If common use areas in a multifamily are submetered, rating is for submeter size serving common use areas.

Generated Date/Time:

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Project Name: San Bernardino County Fire Department: Fire Station 227

Date Prepared: 3/7/2025

G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING

This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with 130.5(b) / 160.6(b). Any load types that are not included in the service do not need to be shown. For multifamily occupancies, submetered systems that provide power to dwelling units do not need to meet these separation requirements and therefore load types on those submetered systems also do not need to be shown.

01	02	03	04	05
Load Type per Table 130.5-B ¹	Minimum Required Separation of Load per Table 130.5-B	Compliance Method ²	Location of Requirements in Construction Documents	Field Inspector
MSA				Pass
Lighting including exit, egress and exterior	All lighting in aggregate	Method 4: Complete metering system measures and reports loads by type	E2.1, E4.2, E1.1	☐
Charging stations for electrical vehicle	All loads in aggregate	Method 4: Complete metering system measures and reports loads by type	E1.1, E4.3	☐
Loads associated with renewable power sources	All loads in aggregate	Method 4: Complete metering system measures and reports loads by type	E4.1, E4.2 E2.4	☐

¹ NOTES: If "Other" is selected under Compliance Method above, please indicate how compliance has been achieved in the space provided below.

² FOOTNOTES: For each separate load type, up to 10% of the connected load may be of any type.
Method 1: Switchboards/ motor control centers/ panelboard loads disaggregated for each load type.
Method 2: Switchboards/ motor control centers/ panelboard supply other distribution equipment with loads disaggregated for each load type.
Method 3: Branch circuits serve load types individually and provisions for adding future branch circuit monitoring.
Method 4: Complete metering system measures and reports loads by type.
See Chapter 8 of the Nonresidential Compliance Manual for more detail on Compliance Methods.

H. VOLTAGE DROP

This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with 130.5(c) / 160.6(c). For alterations, only the altered circuits must demonstrate compliance per 141.0(b)2Piii / 180.2(b)4Bviic.

01	02	03	04	05

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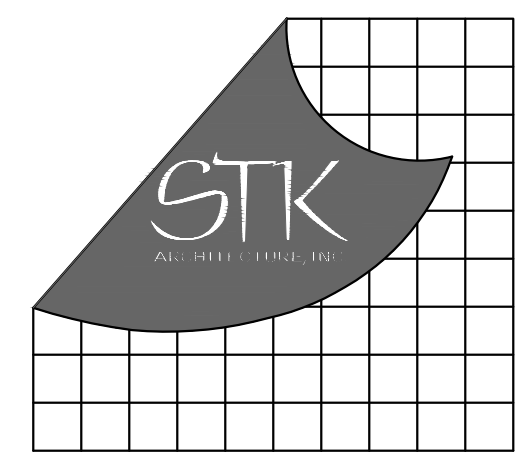
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

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CONSULTANT



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08-22-21 #2024-03417
www.salasobrien.com

PROJECT ADMINISTERED BY:
SAN BERNARDINO COUNTY
PROJECT & FACILITIES
MANAGEMENT DEPARTMENT

385 N. ARROWHEAD AVE.
SAN BERNARDINO, CA 92415

PROJECT NAME:
SAN BERNARDINO
COUNTY FIRE
DEPARTMENT:
FIRE STATION 227

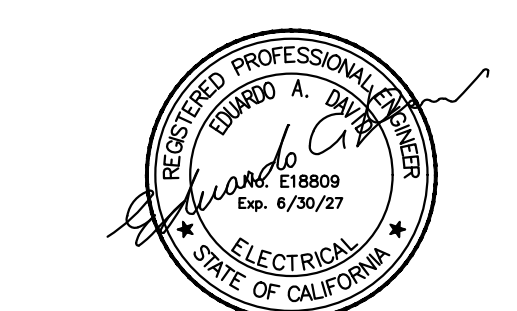
PROJECT # 10J0J202
CIP #22-105
APN Part of 0164-281-01

180 W. 38TH STREET
SAN BERNARDINO,
CA 92405

ISSUE INFORMATION:	
DATE:	INFORMATION:
9-11-24	D.D.s
10-26-24	PROGRESS
12-20-24	95% CDs
03-14-25	Plan Check ☒
05-09-25	Plan Check ☒
07-25-25	BID SET
08-25-25	BID SET

SHEET INFORMATION:
STK PROJECT NO.: 374-193-24
SCALE: AS NOTED
DATE: DECEMBER 2024
PLOT DATE:
DRAWING NAME:

SEAL:



SHEET TITLE:

TITLE 24
EXTERIOR

SHEET NO.:

E0.3

NOT FOR BID

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION
NRCCLTO-4
Page 5 of 7
Report Page: 3/7/2025

I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e))
This table includes areas using allowance calculations per 140.7 / 170.2(e). General
Hardscape Allowance is per Table 140.7-A/Table 170.2-R while "Use it or lose it"
Allowances are per Table 140.7-B /Table 170.2-S. Indicate which allowances are being
used to expand sections for user input. Luminaires that qualify for one of the "Use it or
lose it" allowances shall not qualify for another "Use it or lose it" allowance.
Outdoor lighting attached to multifamily buildings and controlled from the inside of a
dwelling unit are included in Table H, and are not included here. All other multifamily
outdoor lighting is included here.
Calculated General Hardscape Lighting Power Allowance per Table 140.7-A for Nonresidential & Hotel/Motel

01							
"Use it or lose it" Allowance (select all that apply) (select all that apply)							
☒ General Hardscape Allowance Table I (below)	☐ Per Application Table J ☐ Sales Frontage Table K ☐ Ornamental Table L ☒ Per Specific Area Table M						
02	03	04	05	06	07	08	09
Area Description	Area Wattage Allowance (AWA)	Linear Wattage Allowance (LWA)	Total General AWA + LWA (Watts)	Perimeter Length (ft)	Allowed Density (W/ft)	Linear Allowance (Watts)	Total General AWA + LWA (Watts)
	Illuminated Area (ft²)	Allowed Density (W/ft²)	Area Allowance (Watts)				
Automotive Hardscape	27000	0.024	648	300	0.3	87	735
Initial Wattage Allowance for Entire Site (Watts):							
Instances of Initial Wattage Allowance (L2 or only):							
Total General Hardscape Allowance (Watts):							735

J. LIGHTING ALLOWANCE: PER APPLICATION
This section does not apply to this project.

K. LIGHTING ALLOWANCE: SALES FRONTAGE
This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL
This section does not apply to this project.

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M. LIGHTING ALLOWANCE: PER SPECIFIC AREA
This table includes areas using the wattage allowance per specific area from Table 140.7-B /Table 170.2-S. More than one specific area allowance may be taken in a single project, if
applicable. However, multiple specific area allowances may not be taken for the exact same area on the site.

01	02	03	04	05	06	07	08	09	10
Area Description	Specific Area Type per Table 140.7-B	CALCULATED ALLOWANCE (Watts)		Extra Allowance (Watts)	Luminaire Name or Item Tag	DESIGN WATTS		Additional Allowance (Watts)	
		Specific Area (ft²)	Allowed Density (W/ft²)			Watts per Luminaire	# of Luminaires		
Building Facade	Building facade	9900	0.2	2227.5	F12	23	16	368	368
Total Design Watts for this Area:							368		
Total Allowance (Watts) All Areas:							368		

¹ FOOTNOTES: See Table 140.7-B /Table 170.2-S for rules for calculating the specific areas (ft²) for these additional lighting allowances.
² For luminaires indicated in Table F as linear, wattage in column 07 is W/ft instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)
This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E.
Additional Remarks. These documents must be provided to the building inspector during construction and can be found online
Form/Title
NRCCLTO-E - Must be submitted for all buildings

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
There are no NRCA forms required for this project.

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STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION
NRCCLTO-4
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Report Page: 3/7/2025

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete.
Documentation Author Name: Documentation Author Signature: Eduardo C. Brien
Company: Salas O'Brien Engineers Signature Date: 2025-03-07
Address: CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the building provides to the building owner at occupancy.
Responsible Designer Name: Responsible Designer Signature: Eduardo C. Brien
Ed David
Company: Salas O'Brien Date Signed: 2025-03-07
Address: 3220 Executive Ridge, Suite 210 License: E18809
City/State/Zip: Vista CA 92081 Phone: (760) 560-0100

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-5511-0325-5616
Schema Version: rev 20220101 Report Generated: 2025-03-07 10:35:49



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08-22-25 #2024-03417
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PROJECT ADMINISTERED BY:
SAN BERNARDINO COUNTY
PROJECT & FACILITIES
MANAGEMENT DEPARTMENT

385 N. ARROWHEAD AVE.
SAN BERNARDINO, CA 92415

PROJECT NAME:
SAN BERNARDINO
COUNTY FIRE
DEPARTMENT:
FIRE STATION 227

PROJECT # 10J0.102
CIP #22-105
APN Part of 0154-281-01

180 W. 38TH STREET
SAN BERNARDINO,
CA 92405

ISSUE INFORMATION:	
DATE:	INFORMATION:
9-11-24	D.D.s
10-26-24	PROGRESS
12-20-24	95% CDs
03-14-25	Plan Check 
05-09-25	Plan Check 
07-25-25	BID SET
08-25-25	BID SET

SHEET INFORMATION:
STK PROJECT NO.: 374-193-24
SCALE: AS NOTED
DATE: DECEMBER 2024
PLOT DATE: -
DRAWING NAME:



SHEET TITLE:
TITLE 24
EXTERIOR
SHEET NO.:

E0.4



T:\2024\04\17\01_08_Fire Station 227\05_Sign Lighting\2024\04\17_01_08.dwg
08/22/2025 8:44AM

STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

Sign Lighting

CERTIFICATE OF COMPLIANCE

NRCC-LTS-E

Project Name: San Bernardino County Fire Department: Fire Station 227

Report Page: (Page 4 of 5)

Project Address: 180 W. 38th Street

Date Prepared: 3/7/2025

I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title

NRCC-LTS-E - Must be submitted for all buildings

J. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

Generated Date/Time: Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Compliance ID: EnergyPro-5511-0325-5616

Schema Version: rev 20220101

Report Generated: 2025-03-07 10:35:41

STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

Sign Lighting

CERTIFICATE OF COMPLIANCE

NRCC-LTS-E

Project Name: San Bernardino County Fire Department: Fire Station 227

Report Page: (Page 1 of 5)

Project Address: 180 W. 38th Street

Date Prepared: 3/7/2025

A. GENERAL INFORMATION

01 Project Location (city) San Bernardino

02 Climate Zone 10

03 Occupancy Types within Project ☐ Healthcare Facility ☐ Multifamily/ MF Mixed-use >= 4 stories (includes dormitory, senior living)

B. PROJECT SCOPE

This table includes illuminated signs that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.8/ 170.2(e) or 141.0(b)(2M) / 180.2(b)(4B) for alterations. Exit signs and traffic signs are not required to comply with prescriptive requirements per exceptions to 140.8/ 170.2(e) and do not need to complete this compliance document.

01	02	03	04	05
Name or Item Tag	Complete Sign Description	Sign Status ¹	Sign Type	Compliance Method ²
F28	Signage	New	Outdoor	Max Allowed Lighting Power

¹FOOTNOTE: Sign alterations that increase the connected lighting load, replace and rewire more than 50% of the ballasts, or relocate the sign to a different location must comply with 140.8/ 170.2(e). See 141.0(b)(2M) / 180.2(b)(4B) for more details.

²The ENERGY VERIFIED Label compliance method is only applicable if the sign has a permanent, factory-installed, ENERGY VERIFIED label certified by UL or comparable, confirming the sign complies with 140.8/ 170.2(e). Note that using an ENERGY VERIFIED label is an optional compliance path, not a mandatory requirement. See the toolkits for this table for more details.

Generated Date/Time: Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Compliance ID: EnergyPro-5511-0325-5616

Schema Version: rev 20220101

Report Generated: 2025-03-07 10:35:41

STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

Sign Lighting

CERTIFICATE OF COMPLIANCE

NRCC-LTS-E

Project Name: San Bernardino County Fire Department: Fire Station 227

Report Page: (Page 5 of 5)

Project Address: 180 W. 38th Street

Date Prepared: 3/7/2025

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Documentation Author Signature: Eduardo G. O'Brien

Company: Salas O'Brien Engineers

Signature Date: 2025-03-07

Address: CSIA HERS Certification Identification (if applicable)

City/State/Zip: Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.

2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)

3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.

4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permits issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Ed David Responsible Designer Signature: Eduardo G. O'Brien

Company: Salas O'Brien

Signature Date: 2025-03-07

Address: 3220 Executive Ridge, Suite 210

License: E18809

City/State/Zip: Phone: (760) 560-0100

Generated Date/Time: Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Compliance ID: EnergyPro-5511-0325-5616

Schema Version: rev 20220101

Report Generated: 2025-03-07 10:35:41

STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

Sign Lighting

CERTIFICATE OF COMPLIANCE

NRCC-LTS-E

Project Name: San Bernardino County Fire Department: Fire Station 227

Report Page: (Page 2 of 5)

Date Prepared: 3/7/2025

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables B through H. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

01	02	03	04	05	06	07
Name or Item Tag (See Table B)	Complete Sign Description (See Table B)	Total Allowed (Watts) (See Table F)	Total Designed (Watts) (See Table F)	Compliant Light Sources (See Table G)	ENERGY VERIFIED Label (See Table H)	Compliance Results
F28	Signage	0	222	OR	OR	DOES NOT COMPLY
Controls Compliance (See Table F/G/H for Details)						COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

Generated Date/Time: Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Compliance ID: EnergyPro-5511-0325-5616

Schema Version: rev 20220101

Report Generated: 2025-03-07 10:35:41

STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

Sign Lighting

CERTIFICATE OF COMPLIANCE

NRCC-LTS-E

Project Name: San Bernardino County Fire Department: Fire Station 227

Report Page: (Page 3 of 5)

Date Prepared: 3/7/2025

F. MAXIMUM ALLOWED LIGHTING POWER AND CONTROLS

This table includes illuminated signs using the Maximum Allowed Lighting Power compliance method per 140.8(a) / 170.2(e) as indicated on Table B of this compliance document. It also demonstrates compliance with mandatory controls requirements from 130.3 / 160.5(d) by indicating control types for each sign.

01	02	03	04	05	06	07	08	09			
Name or Item Tag	Complete Sign Description	Illumination Method	Sign Area (ft²)	Allowed Density (W/ft²)	Allowance (Watts)	Design Watts	Mandatory Controls	Field Inspector			
							Shut-Off	Dimming	Demand Response ¹	Pass	Fail
F28	Signage	Externally	0	2.3	0	222	Automatic Time Switch + Photocontrol (outdoor)			☐	☐
		Luminaire Name or Item Tag	11	12	13	14					
		F28	LED Wall Mounted Light SIGNAGE	Complete Luminaire Description	Watts per luminaire	How is Wattage determined	Total Number of Luminaires				
				Mfr. Spec	74		3				

¹NOTES: Controls with a * require a note in the space below explaining how compliance is achieved. EX: Sign within tunnel illuminated day and night; EXCEPTION to 130.3(a)(2A).

²FOOTNOTE: Demand response controls are only required for an Electronic Message Center having a new connected lighting power load greater than 15 kW per 110.12(d)

G. LIGHT SOURCES AND CONTROLS

This section does not apply to this project.

H. ENERGY VERIFIED LABELED SIGNS AND CONTROLS

This section does not apply to this project.

Generated Date/Time: Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Compliance ID: EnergyPro-5511-0325-5616

Schema Version: rev 20220101

Report Generated: 2025-03-07 10:35:41



PROJECT ADMINISTERED BY:
SAN BERNARDINO COUNTY
PROJECT & FACILITIES
MANAGEMENT DEPARTMENT

385 N. ARROWHEAD AVE.
SAN BERNARDINO, CA 92415

PROJECT NAME:
SAN BERNARDINO
COUNTY FIRE
DEPARTMENT:
FIRE STATION 227

PROJECT # 10J01202
CIP #22-105
APN Part of 0164-281-01

180 W. 38TH STREET
SAN BERNARDINO,
CA 92405

ISSUE INFORMATION:	
DATE:	INFORMATION:
9-11-24	D.D.s
10-26-24	PROGRESS
12-20-24	95% CDs
03-14-25	Plan Check
05-09-25	Plan Check
07-25-25	BID SET
08-25-25	BID SET

SHEET INFORMATION:
STK PROJECT NO.: 374-193-24
SCALE: AS NOTED
DATE: DECEMBER 2024
PLOT DATE:
DRAWING NAME:

SEAL:



SHEET TITLE:

TITLE 24
EXTERIOR

SHEET NO.:

E0.5



STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

Solar And Battery

CERTIFICATE OF COMPLIANCE

NRCC-SAB-E

Project Name: San bernardino County Fire Department: Fire Station 227

Report Page: (Page 4 of 5)

Project Address: 180 W. 38th Street

Date Prepared: 3/7/2025

J. PHOTOVOLTAIC (PV) AND BATTERY SYSTEMS

This table documents compliance with prescriptive photovoltaic and battery system requirements in 140.10/ 170.2(g and h). Unless the project meets one of the listed exceptions, or trades-off PV in an energy model using performance path, 140.10/ 170.2(g and h) requires installed photovoltaic and battery systems for newly constructed buildings. The installed PV systems must meet the minimum requirements in Joint Appendix 11.

01	02	03	04	05	06	07	08
Occupancy	Conditioned Floor Area (ft²)	Area of New Roof¹ (ft²)	Roof Area < 70% Solar Access² (ft²)	Plansheet or Document showing Solar Access Calculations	Occupied Roof Area³ (ft²)	Solar Access Roof Area (SARA) (ft²)	Min Size of PV System Required (kWdc)
Auditorium	0	0	0		0	0	0
Total Min Size PV System Required for all Spaces (kWdc):							0
Total Size PV System in Design (kWdc):							300

¹FOOTNOTES: Includes the area of the building's roof space capable of structurally supporting a PV system and the area of all roof space on covered parking areas, carports, and all other newly constructed structures on the site that are compatible with supporting a PV system per Title 24, Part 2 Section 1511.2.

²Solar access must be determined using CEC approved solar access calculation tools found at <https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/solar-assessment-tools>.

³As specified by CBC Section 503.1.4.

K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included Table E. Additional Remarks and ExceptionalConditionMessageCCSABE += UserChangedSelectioninCI. These documents must be provided to the building inspector during construction and can be found online.

Form/Title

NRCC-SAB-01-E - Must be submitted for all buildings that must comply with solar readiness or PV/Battery requirements.

L. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

Generated Date/Time: Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-5511-0325-5616

Schema Version: rev 20220101 Report Generated: 2025-03-07 10:35:49

STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

Solar And Battery

CERTIFICATE OF COMPLIANCE

NRCC-SAB-E

Project Name: San bernardino County Fire Department: Fire Station 227

Report Page: (Page 1 of 5)

Project Address: 180 W. 38th Street

Date Prepared: 3/7/2025

A. GENERAL INFORMATION

01 Project Location (city)	San Bernardino	04 Building Occupancies	
02 Climate Zone	10	05 Construction Type	New construction w/ roof <=533 ft²
03 Conditioned Floor Area (ft²)	0	06 Number of Stories	Bldg <= 3 stories

B. PROJECT SCOPE

The compliance path the project is using to comply per 110.10(b)18/ 140.10/ 170.2(g and h) is indicated below.

Compliance with Solar Photovoltaic (PV) and Battery Requirements in 140.10/ 170.2(g and h)

01

☒ Provided PV system and battery storage sized per 140.10/ 170.2 (g and h)	The project has included an installed PV system and battery storage system per requirements in 140.10/ 170.2(g and h) as documented in Table I.
☐ Exception to PV and Battery: Not enough Solar Access Roof Area	The total of all available Solar Access Roof Area(s) of the project site is less than three percent of the conditioned floor area as documented in Table I.
☐ Exception to PV and Battery: Required PV < 4kW	The required PV system size is less than 4 kW dc as documented in Table J.
☐ Exception to PV and Battery: No contiguous Solar Access Roof Area	The Solar Access Roof Area(s) of the project site contains less than 80 contiguous square feet as documented in Table J.
☐ Exception to PV and Battery: Can't meet snow load	The project has a roof design where the enforcement authority has verified it is not possible for the PV system, including panels, modules, components, supports, and attachments to the roof structure, to meet ASCE 7-16 Chapter 7, Snow Loads.
☐ Exception to PV and Battery: Multi-tenant without VNEM or Community Solar	The project is a multi-tenant building in an area where a load serving entity does not provide either a Virtual Net Metering (VNEM) or community solar program.
☐ The prescriptive PV/battery requirement has been traded off using the performance compliance approach as documented on the PRF Certificate of Compliance form.	

Generated Date/Time: Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-5511-0325-5616

Schema Version: rev 20220101 Report Generated: 2025-03-07 10:35:49

STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

Solar And Battery

CERTIFICATE OF COMPLIANCE

NRCC-SAB-E

Project Name: San bernardino County Fire Department: Fire Station 227

Report Page: (Page 5 of 5)

Project Address: 180 W. 38th Street

Date Prepared: 3/7/2025

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Documentation Author Signature:
Company: Salas O'Brien Engineers	Signature Date:
Address:	CEA/HERS Certification Identification (if applicable):
City/State/Zip:	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

- The information provided on this Certificate of Compliance is true and correct.
- I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
- The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
- The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
- I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permits issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Ed David	Responsible Designer Signature:
Company: Salas O'Brien	Signature Date: 2025-03-07
Address: 3220 Executive Ridge, Suite 210	License: E18809
City/State/Zip: Vista CA 92081	Phone: (760) 560-0100

Generated Date/Time: Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-5511-0325-5616

Schema Version: rev 20220101 Report Generated: 2025-03-07 10:35:49

STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

Solar And Battery

CERTIFICATE OF COMPLIANCE

NRCC-SAB-E

Project Name: San bernardino County Fire Department: Fire Station 227

Report Page: (Page 2 of 5)

Project Address: 180 W. 38th Street

Date Prepared: 3/7/2025

Compliance with Solar Thermal Water Heating Requirements in 170.2(d)3C (Multifamily and hotel/ motel occupancies only)

01

☐ The project includes a hotel/motel or multifamily occupancy with a gas or propane central water-heating system (serves 2+ dwelling units) and includes a permanently installed domestic solar water-heating system to comply with 170.2(d)3C and Reference Residential Appendix RA4, as documented in Table H.	
Compliance meets Exception 2 to solar ready requirements in 110.10(b).	

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, for guidance or see the applicable Table referenced below.

Allocated Solar Zone		Installed PV System		Installed SWH System		Smart Total and Alternative EE Measure		Compliance Results
01	02	03	04	05	06	07	08	
Required Minimum Area (ft²)	<= Designated Area (ft²) OR	Required Minimum DC Power Rating (Watts)	<= Designated DC Power Rating (Watts) OR	Required Minimum Solar Savings Fraction	Designed/Rated Solar Savings Fraction	JA5 Compliant Thermostat Specified?	Alternative Energy Efficiency Measure	COMPLIES
(See Table F)		(See Tables G or J)		(See Table H)		(See Table I)		
<=	OR	0	<= 300,000	OR	<=	OR		
Location in construction documents showing the location for inverters and metering equipment and a pathway for the routing of conduit/ plumbing to the electrical service/ water heating system per §110.10(c).								
Battery storage system design meets the minimum requirements in Joint Appendix JA12 and the minimum energy (kWh)/ power (kW) capacity per Table J.								COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table is includes remarks made by the permit applicant to the Authority Having Jurisdiction.

Generated Date/Time: Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-5511-0325-5616

Schema Version: rev 20220101 Report Generated: 2025-03-07 10:35:49

STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

Solar And Battery

CERTIFICATE OF COMPLIANCE

NRCC-SAB-E

Project Name: San bernardino County Fire Department: Fire Station 227

Report Page: (Page 3 of 5)

Project Address: 180 W. 38th Street

Date Prepared: 3/7/2025

F. ALLOCATED SOLAR ZONE

This section does not apply to this project.

G. PERMANENTLY INSTALLED SOLAR PV FOR SOLAR READY EXCEPTION

This section does not apply to this project.

H. PERMANENTLY INSTALLED SOLAR HOT WATER SYSTEMS

This section does not apply to this project.

I. SMART THERMOSTATS AND ALTERNATIVE EFFICIENCY MEASURE FOR SOLAR READY EXCEPTION

This section does not apply to this project.

Generated Date/Time: Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-5511-0325-5616

Schema Version: rev 20220101 Report Generated: 2025-03-07 10:35:49

PROJECT ADMINISTERED BY:
SAN BERNARDINO COUNTY
PROJECT & FACILITIES
MANAGEMENT DEPARTMENT

385 N. ARROWHEAD AVE.
SAN BERNARDINO, CA 92415

PROJECT NAME:
SAN BERNARDINO
COUNTY FIRE
DEPARTMENT:
FIRE STATION 227

PROJECT # 10J0.1202
CIP #22-105
APN Part of 0164-281-01

180 W. 38TH STREET
SAN BERNARDINO,
CA 92405

ISSUE INFORMATION:	
DATE:	INFORMATION:
9-11-24	D.D.s
10-26-24	PROGRESS
12-20-24	95% CDs
03-14-25	Plan Check
05-09-25	Plan Check
07-25-25	BID SET
08-25-25	BID SET

SHEET INFORMATION:
STK PROJECT NO.: 374-193-24
SCALE: AS NOTED
DATE: DECEMBER 2024
PLOT DATE: -
DRAWING NAME:

SEAL:

SHEET TITLE:

TITLE 24
EXTERIOR

SHEET NO.:

E0.6

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-4

Project Name: San Bernardino County Fire Department: Fire Station 226

Report Page: (Page 7 of 9)

Date Prepared: 3/7/2025

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS

This section does not apply to this project.

Generated Date/Time: Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Schema Version: rev 20220101

Compliance ID: EnergyPro-5511-0325-5612

Report Generated: 2025-03-07 10:33:38

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-4

Project Name: San Bernardino County Fire Department: Fire Station 226

Report Page: (Page 4 of 9)

Date Prepared: 3/7/2025

F. INDOOR LIGHTING FIXTURE SCHEDULE

Designed Wattage: Unconditioned Spaces

01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change ¹	Watts per luminaire ²	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Field Inspector
F2	48" LED Strip Light	No	NA	27	Mfr. Spec	2	No	54	Pass
F6	17w 6" Daimeter LED Down Light	No	NA	17	Mfr. Spec	1	No	17	Fail
Total Designed Watts: UNCONDITIONED SPACES								71	

¹FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.

²Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls		01	02	03
	Mandatory Demand Response 130.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C		Field Inspector
	Required >= 4,000W subject to multilevel	Whole Building Auto Time Switch		Pass
				Fail

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Schema Version: rev 20220101

Compliance ID: EnergyPro-5511-0325-5612

Report Generated: 2025-03-07 10:33:38

Documentation Software: EnergyPro

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-4

Project Name: San Bernardino County Fire Department: Fire Station 226

Report Page: (Page 1 of 9)

Date Prepared: 3/7/2025

A. GENERAL INFORMATION

01 Project Location (city)	San Bernardino	04 Total Conditioned Floor Area (ft ²)	31,225
02 Climate Zone	10	05 Total Unconditioned Floor Area (ft ²)	295
03 Occupancy Types Within Project (select all that apply):		06 # of Stories (Habitable Above Grade)	
• All Other Occupancies		1	

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.

Scope of Work	Conditioned Spaces	Unconditioned Spaces
01	02	03
My Project Consists of (check all that apply):	Calculation Method	Area (ft ²)
☒ New Lighting System	Area Category Method	31225
☐ New Lighting System - Parking Garage		295
Total Area of Work (ft ²)	31225	295

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Schema Version: rev 20220101

Compliance ID: EnergyPro-5511-0325-5612

Report Generated: 2025-03-07 10:33:38

Documentation Software: EnergyPro

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-4

Project Name: San Bernardino County Fire Department: Fire Station 226

Report Page: (Page 8 of 9)

Date Prepared: 3/7/2025

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title

NRCC-LTI-E - Must be submitted for all buildings

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/titles24/attcp/providers.html>

Form/Title

NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.

Whole Building Time Switch;

NRCA-LTI-03-A - Must be submitted for automatic daylight controls.

DAY ROOM; FITNESS; APPA-BAY;

NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.

Whole Building Demand Response;

Generated Date/Time: Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Schema Version: rev 20220101

Compliance ID: EnergyPro-5511-0325-5612

Report Generated: 2025-03-07 10:33:38

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-4

Project Name: San Bernardino County Fire Department: Fire Station 226

Report Page: (Page 5 of 9)

Date Prepared: 3/7/2025

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04	05	06	07	08	09	10	11	12
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) // 160.5(b)4C	Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(e) / 170.2(e)2A	Interlocked Systems 140.6(a)1 / 170.2(e)2B	Field Inspector
offices	All Other Space Types	Readily Accessible	Dimmer	See Building Level	NA-Garage < 36sf opening	NA-Garage < 36sf opening	No	Pass
utility rooms	Electrical Mechanical Telephone Room	Readily Accessible	Dimmer	See Building Level	NA-Garage < 36sf opening	NA-Garage < 36sf opening	No	Fail
SLEEP QUARTER	All Other Space Types	Readily Accessible	Dimmer	See Building Level	NA-Garage < 36sf opening	NA-Garage < 36sf opening	No	Fail
DAY ROOM	Dining - Bar/Fine	Readily Accessible	Dimmer	See Building Level	Included	Included	No	Fail
LOBBY	Lounge	Readily Accessible	Dimmer	See Building Level	NA-Garage < 36sf opening	NA-Garage < 36sf opening	No	Fail
FITNESS	Exercise Center Gymnasium	Readily Accessible	Dimmer	See Building Level	Included	Included	No	Fail
KITCHEN	Kitchen/ Food Preparation	Readily Accessible	Dimmer	See Building Level	NA-Garage < 36sf opening	NA-Garage < 36sf opening	No	Fail
BATHROOM	Restroom	Readily Accessible	Dimmer	See Building Level	NA-Garage < 36sf opening	NA-Garage < 36sf opening	No	Fail

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

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Indoor Lighting

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NRCC-LTI-4

Project Name: San Bernardino County Fire Department: Fire Station 226

Report Page: (Page 2 of 9)

Date Prepared: 3/7/2025

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)					Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)			Compliance Results			
	01	02	03	04	05	06	07	08	09			
	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)	Total Allowed (Watts)	Total Designed (Watts)	PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)	Total Adjusted (Watts) *Includes Adjustments	05 must be >= 08 140.6 / 170.2(e)			
(See Table I)	(See Table I)	(See Table I)	(See Table K)		=	12,490	>=	4,389	0	=	4389	COMPLIES
Conditioned	12,490	0			=	118	>=	71	0	=	71	COMPLIES
Unconditioned		118	0		=		>=			=		COMPLIES
Controls Compliance (See Table H for Details)												
Rated Power Reduction Compliance (See Table Q for Details)												

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

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CERTIFICATE OF COMPLIANCE

NRCC-LTI-4

Project Name: San Bernardino County Fire Department: Fire Station 226

Report Page: (Page 9 of 9)

Date Prepared: 3/7/2025

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Eduardo C. O'Brien

Signature Date: 2025-03-07

Address: 3220 Executive Ridge, Suite 210

City/State/Zip: Vista CA 92081

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.

2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).

3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.

4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Ed David

Signature Date: 2025-03-07

Address: 3220 Executive Ridge, Suite 210

City/State/Zip: Vista CA 92081

Phone: (760) 560-0100

Generated Date/Time: Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

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NRCC-LTI-4

Project Name: San Bernardino County Fire Department: Fire Station 226

Report Page: (Page 6 of 9)

Date Prepared: 3/7/2025

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

LOCKER	Locker/Dressing Room	Readily Accessible	Dimmer	See Building Level	NA-Garage < 36sf opening	NA-Garage < 36sf opening	No	Fail
STORAGES	Electrical Mechanical Telephone Room	Readily Accessible	Dimmer	See Building Level	NA-Garage < 36sf opening	NA-Garage < 36sf opening	No	Fail
APPA, BAY	Auto Repair	Readily Accessible	Multilevel Switch	NA: 24 hour/365 day	Included	Included	No	Fail

13

Plan Sheet Showing Daylit Zones:

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used.

Conditioned Spaces

01	02	03	04	05	06
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft ²)	Area (ft ²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment Area Category PAF
Fire Station Conditioned	All Other Space Types	0.4	31,225	12,490	No
TOTALS:		31,225	12,490		See Tables J, or P for detail

Unconditioned Spaces

01	02	03	04	05	06
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft ²)	Area (ft ²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment Area Category PAF
Fire Station Unconditioned	All Other Space Types	0.4	295	118	No
TOTALS:		295	118		See Tables J, or P for detail

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

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STATE OF CALIFORNIA

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CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-4

Project Name: San Bernardino County Fire Department: Fire Station 226

Report Page: (Page 3 of 9)

Date Prepared: 3/7/2025

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table I. If using Table I to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change ¹	Watts per luminaire ²	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Field Inspector
F15	21w 6" Daimeter LED Shower Light	No	NA	21	Mfr. Spec		No	0	Pass
F17	2.5w LED Reading Light	No	NA	2.5	Mfr. Spec	9	No	22.5	Fail
F2	48" LED Strip Light	No	NA	27	Mfr. Spec	2	No	54	Fail
F2/F2E	48" LED Strip Light	No	NA	27	Mfr. Spec	6	No	162	Fail
F20/F20E	130w 96" LED Vapor Tight Light	No	NA	130	Mfr. Spec	21	No	2,730	Fail
F24/F24E	27.9w 2 X 4 LED Troffer	No	NA	27.9	Mfr. Spec	10	No	279	Fail
F24E	27.9w 2 X 4 LED Troffer	No	NA	27.9	Mfr. Spec	1	No	27.9	Fail
F25	36w 48" LED Vapor Tight	No	NA	38	Mfr. Spec	3	No	114	Fail
F3	48" LED Strip Light	No	NA	27	Mfr. Spec	10	No	270	Fail
F5	20" 10w LED Linear Under Cabinet	No	NA	10	Mfr. Spec	5	No	50	Fail
F6	17w 6" Daimeter LED Down Light	No	NA	17	Mfr. Spec	24	No	408	Fail
F6/F6E	17w 6" Daimeter LED Down Light	No	NA	17	Mfr. Spec	11	No	187	Fail
F7	17w 6" Daimeter LED Down Light	No	NA	17	Mfr. Spec	5	No	85	Fail
Total Designed Watts: CONDITIONED SPACES								4,389	

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PROJECT ADMINISTERED BY:
SAN BERNARDINO COUNTY
PROJECT & FACILITIES
MANAGEMENT DEPARTMENT

385 N. ARROWHEAD AVE.
SAN BERNARDINO, CA 92415

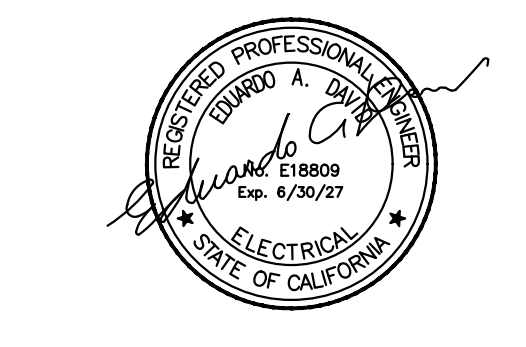
PROJECT NAME:
SAN BERNARDINO
COUNTY FIRE
DEPARTMENT:
FIRE STATION 227

PROJECT # 10J0J202
CIP #22-105
APN Part of 0164-281-01

180 W. 38TH STREET
SAN BERNARDINO,
CA 92405

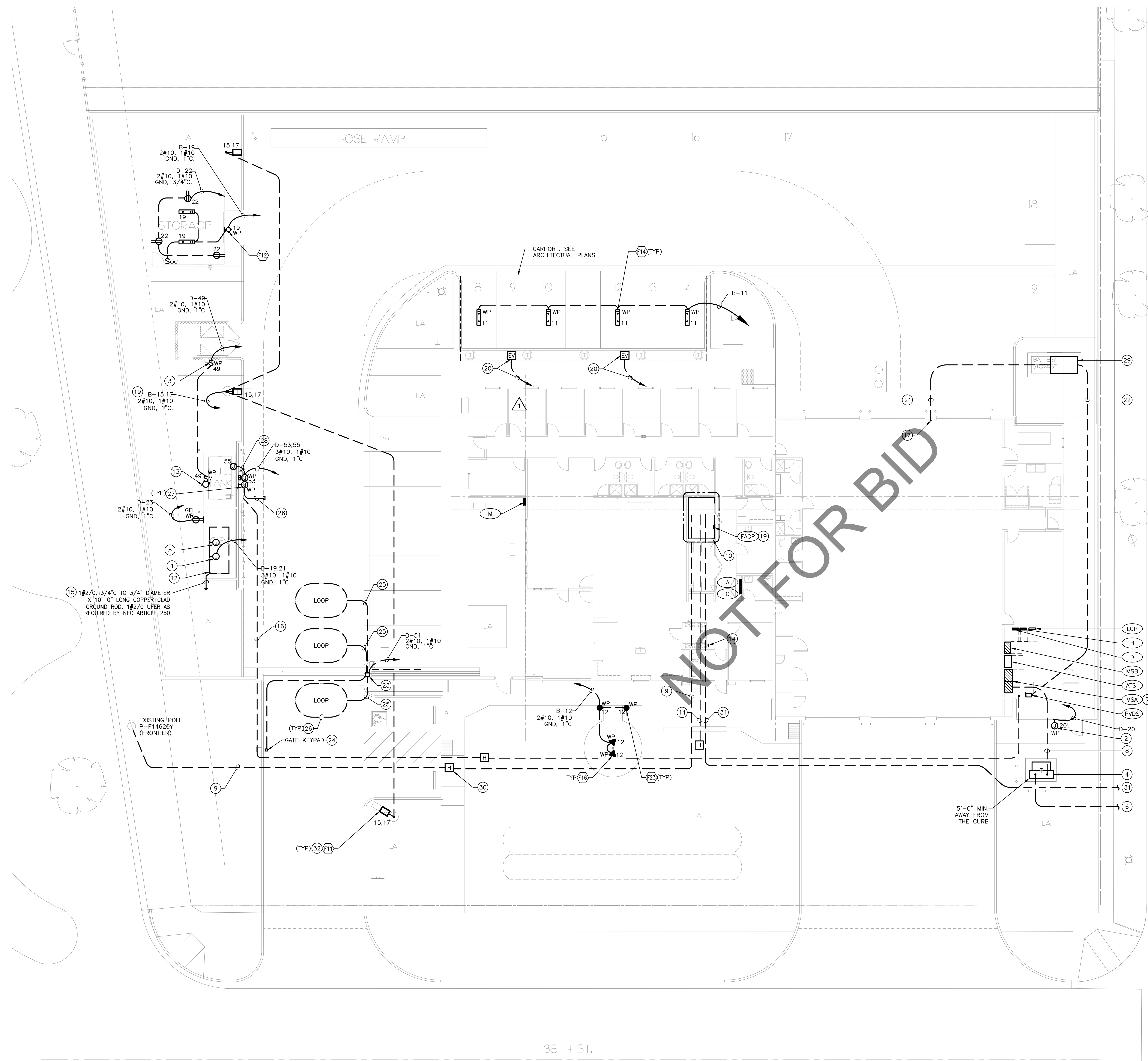
ISSUE INFORMATION:	
DATE:	INFORMATION:
9-11-24	D.D.s
10-26-24	PROGRESS
12-20-24	95% CDs
03-14-25	Plan Check
05-09-25	Plan Check
07-25-25	BID SET
08-25-25	BID SET

SHEET INFORMATION:
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SCALE: AS NOTED
DATE: DECEMBER 2024
PLOT DATE:
DRAWING NAME:
SEAL:

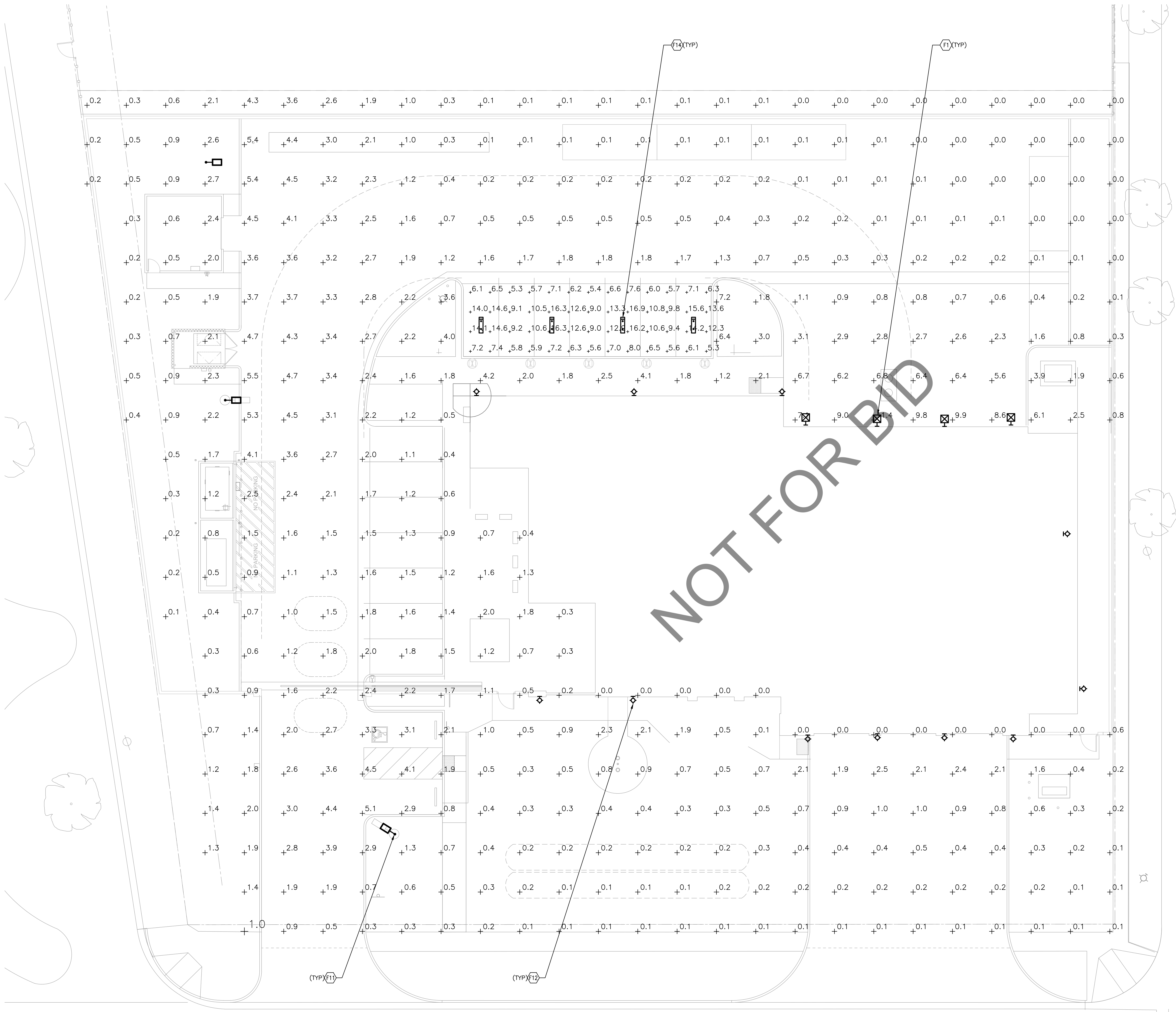


SHEET TITLE:
TITLE 24
INTERIOR

SHEET NO.:
E0.7



T:\2024\0417\01-08-Fire Station 227\05-Site\05-Lighting\05-Lighting E1.2.dwg
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Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Site Lighting	+	1.4 fc	11.4 fc	0.0 fc	N/A	N/A
Carport	+	9.6 fc	17.0 fc	5.3 fc	3.2:1	1.8:1



4305 DEVO DR., TEMECULA, CALIFORNIA 92590-3760
Phone: 951.266.8110 Fax: 951.266.6279 Email: sk@stkinc.com

CONSULTANT:



3220 Executive Ridge, Suite 210
Vista, CA 92081
760.560.0100
06-22-2011 #2024-03417
20 10/24 28 11/24

PROJECT ADMINISTERED BY:
SAN BERNARDINO COUNTY
PROJECT & FACILITIES
MANAGEMENT DEPARTMENT

385 N. ARROWHEAD AVE.
SAN BERNARDINO, CA 92415

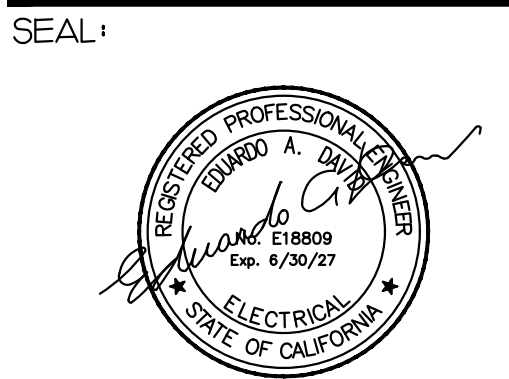
PROJECT NAME:
SAN BERNARDINO
COUNTY FIRE
DEPARTMENT:
FIRE STATION 227

PROJECT # 10101202
CIP #22-105
APN Part of 0154-281-01

180 W. 38TH STREET
SAN BERNARDINO,
CA 92405

ISSUE INFORMATION:	
DATE:	INFORMATION:
9-11-24	D.D.s
10-26-24	PROGRESS
12-20-24	95% CDs
03-14-25	Plan Check 
05-09-25	Plan Check 
07-25-25	BID SET
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SHEET INFORMATION:
STK PROJECT NO.: 374-193-24
SCALE: AS NOTED
DATE: DECEMBER 2024
PLOT DATE:
DRAWING NAME:



SHEET TITLE:
LIGHTING
SITE PLAN
PHOTOMETRIC
SHEET NO.:

E1.2

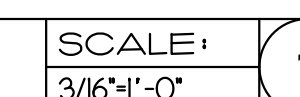


- ① MOUNT JUNCTION BOX IN THE BACK OF THE WALL FOR POWER. COORDINATE WITH ARCHITECT PLANS FOR EXACT LOCATION OF THE SIGNAGE AND MOUNTING HEIGHT. ROUTE EXTERIOR THRU LIGHTING CONTROL PANEL.
- ② CONNECT EXHAUST FAN TO WALL LIGHT SWITCH. COORDINATE WITH MECHANICAL DRAWINGS FOR EXACT WIRING AND LOCATION PRIOR TO START OF WORK.
- ③ 1/2 HOUR RATED GYPSUM BOARD CEILING. PROVIDE FIRE RATED RECESSED LIGHT FIXTURE AND CEILING FAN BACKBOX WITH ENCLOSURE. PROVIDE LIGHT TENMAT—FF109—300 OR EQUAL.
- ④ SURFACE MOUNTED SIGNAGE LIGHT FIXTURE. MOUNT LIGHT FIXTURE +6" ABOVE BUILDING SIGNAGE. COORDINATE WITH ARCHITECT AND SIGNAGE INSTALLER PRIOR TO WALL FINISH. ADJUST AND AIM LIGHTING TO THE BOTTOM OF THE BUILDING NUMBER.
- ⑤ MOUNT LIGHT FIXTURE TO THE WALL AT 9" OR 9" AFF.
- ⑥ PROVIDE CEILING FAN BACKBOX SUPPORTS TO THE BUILDING STRUCTURE. ATTACH CEILING FAN MOUNTING ACCESSORIES PER MANUFACTURER'S RECOMMENDATION. SEE DETAIL 11/ES.1
- ⑦ PROVIDE WALL MOUNTED FAN WITH PULL CHAIN AT MINIMUM OF 5'-0" A.F.F.

- A. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND COORDINATE WITH ALL OTHER TRADES. IN CASE OF DISCREPANCIES OR ANY POTENTIAL CONFLICTS, INFORM THE ARCHITECT AND ENGINEER IN WRITING PRIOR TO START OF WORK.
- B. CONTRACTOR SHALL VERIFY EXACT QUANTITIES, LOCATIONS AND HEIGHTS OF ALL FIXTURES WITH TENANT AND ARCHITECT PRIOR TO START OF WORK.
- C. ALL LIGHTING TO BE CONNECTED TO PANEL 'B' UNLESS NOTED OTHERWISE.
- D. ALL FIXTURES PROVIDED WITH EGRESS LIGHTING BATTERY PACK BACK-UP SHALL BE FED FROM UNSWITCHED CIRCUIT SERVING LIGHTING IN SAME AREA PER NEC ARTICLE 700.12(F). EMERGENCY BATTERY BACK-UP SHALL BE ACTIVATED ONLY UPON NORMAL POWER FAILURE.



E2.1



PROJECT ADMINISTERED BY:
**SAN BERNARDINO COUNTY
PROJECT & FACILITIES
MANAGEMENT DEPARTMENT**

385 N. ARROWHEAD AVE.
SAN BERNARDINO, CA 92415

PROJECT NAME:
**SAN BERNARDINO
COUNTY FIRE
DEPARTMENT:
FIRE STATION 227**

PROJECT # 10101202
CIP #22-105
APN Part of 0154-281-01

180 W. 38TH STREET
SAN BERNARDINO,
CA 92405

ISSUE INFORMATION:	
DATE:	INFORMATION:
9-11-24	D.D.s
10-26-24	PROGRESS
12-20-24	95% CDs
03-14-25	Plan Check
05-09-25	Plan Check
07-25-25	BID SET
08-25-25	BID SET

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SEAL:

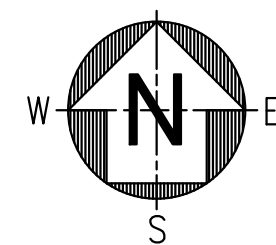


SHEET TITLE:

**LIGHTING
FLOOR PLAN
PHOTOMETRIC**

SHEET NO.:

E2.1PH



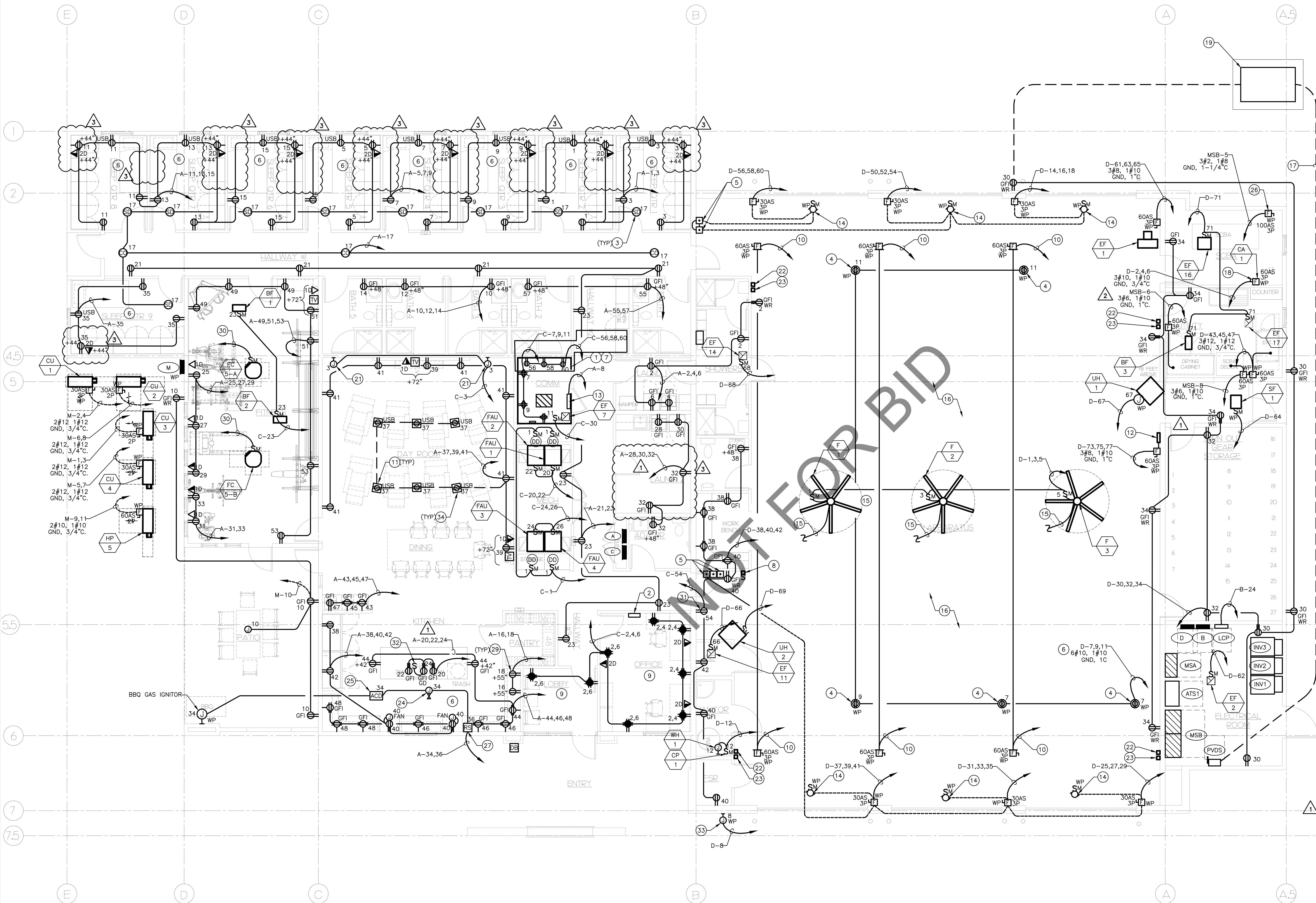
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1

LIGHTING FLOOR PLAN PHOTOMETRIC

1/2024/04/17/01-08-Fire Station 227/25-SAN BERNARDINO COUNTY/2024/04/17/E2.2.dwg

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GENERAL NOTES

- CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND COORDINATE WITH ALL OTHER TRADES. IN CASE OF DISCREPANCIES OR ANY POTENTIAL CONFLICTS, INFORM THE ARCHITECT AND ENGINEER IN WRITING PRIOR TO START OF WORK.
- CONTRACTOR SHALL VERIFY EXACT QUANTITIES, LOCATIONS AND HEIGHTS OF ALL OUTLETS WITH TENANT AND ARCHITECT PRIOR TO START OF WORK.
- CONTRACTOR SHALL FIELD VERIFY AND COORDINATE WITH MECHANICAL DRAWINGS FOR EXACT LOCATION OF EQUIPMENT AND REQUIREMENTS PRIOR TO START OF WORK.
- MECHANICAL EQUIPMENT FUSE SIZE RATINGS PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
- ALL MECHANICAL EQUIPMENT FUSED DISCONNECTS AND MOTOR RATED SWITCHES EXPOSED TO WEATHER SHALL BE WEATHERPROOF RATED.
- ALL RECEPTACLES IN SLEEPING ROOMS AND WHERE REQUIRED BY CODE SHALL BE TAMPERPROOF TYPE RECEPTACLES FED FROM ARC-FAULT-CIRCUIT-INTERRUPTER (AFCI) TYPE CIRCUIT BREAKERS.

KEY NOTES

- MAIN TELEPHONE SERVICE BACKBOARD.
- GENERATOR REMOTE ANNUNCIATOR PANEL. COORDINATE LOCATION OF ANNUNCIATOR PANEL WITH ARCHITECT AND OWNER'S REPRESENTATIVE PRIOR TO START OF WORK.
- MOUNT SMOKE DETECTORS A MINIMUM OF 36" FROM AIR REGISTERS AND CEILING FANS. INTERFERENCE ALL SMOKE DETECTORS WITH FIRE ALARM SYSTEM.
- PROVIDE CEILING MOUNTED SINGLE CIRCUIT, DUAL RECEPTACLE, 30 AMP CORD REEL. COORDINATE WITH OWNER FOR EXACT RECEPTACLE TYPE PRIOR TO START OF WORK.
- GARAGE BAY DOOR CONTROLS. MOUNT AT 42" ABOVE FINISH FLOOR. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR EXACT LOCATION PRIOR TO START OF WORK.
- PROVIDE DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT.
- PROVIDE 3/4" X 8'-0" X 4'-0" FIRE TREATED PLYWOOD WITH 1#6 GROUND CONNECTED TO BUILDING MAIN SERVICE GROUND.
- F-1, F-2 & F-3 FAN CONTROLLER REFER TO MECHANICAL FOR CONTROL WIRING.
- ROUTE CONTROLLED RECEPTACLE THROUGH CEILING MOUNTED OCCUPANCY SENSOR.
- VEHICLE EXHAUST CRAB CRAWL SYSTEM RECEIVES POWER FROM CONTROL PANEL. PROVIDE WIRING CONDUIT TO CONTROL PANEL WITH 3#8, 1#10 GND IN 1" CONDUIT. SEE MECHANICAL FOR EXACT WIRING AND LOCATION.
- DUPLEX FLOOR OUTLETS. MANUFACTURER BY CARLON OR EQUAL. FIELD VERIFY EXACT LOCATION AND COORDINATE WITH ARCHITECT AND OWNER'S REPRESENTATIVE PRIOR TO START OF WORK.
- PLYMOVENT CONTROLLER. PROVIDE 1" CONDUIT FROM CONTROLLER TO EACH UNIT. SEE MECHANICAL FOR CONTROL WIRING REQUIREMENT.
- FIRE ALARM CONTROL PANEL. COORDINATE LOCATION WITH FIRE ALARM CONTRACTOR PRIOR TO START OF WORK.
- PROVIDE CONNECTION TO ROLL-UP DOOR MOTOR. COORDINATE EXACT LOCATION AND POINT OF CONNECTION WITH DOOR SUPPLIER/INSTALLER PRIOR TO START OF WORK.
- PROVIDE 3/4" CONDUIT FOR FAN CONTROL WIRING AND ALL CONTROLS FOR A COMPLETE AND OPERABLE SYSTEM. COORDINATE EXACT LOCATION AND POINTS OF CONNECTION WITH FAN SUPPLIER/INSTALLER PRIOR TO START OF WORK.
- THERE SHALL BE NO EXPOSED CONDUIT WITHIN THE APPARATUS BAY.
- 4#2, 1#6 GROUND, 2" CONDUIT, (1) 1-1/4" CONDUIT FOR COMMUNICATIONS STUBBED UP UNDER BEST1 POWER AND COMMUNICATIONS CABINET.
- PROVIDE CONNECTION TO AIR COMPRESSOR. PROVIDE WITH MAGNETIC STARTER, START UP KIT. COORDINATE WITH PLUMBING PLANS.
- 30kW/81kWH BATTERY ENERGY STORAGE SYSTEM 'BEST1'.
- RECEPTACLE FOR EXERCISE MACHINE. COORDINATE RECEPTACLE NEMA CONFIGURATION WITH MANUFACTURER PRIOR TO START OF WORK.
- JUNCTION BOX FOR MOTORIZED SHADES. COORDINATE EXACT LOCATION WITH SHADES PROVIDER PRIOR TO START OF WORK.
- VEHICLE EXHAUST CRAB CRAWL RETURN SYSTEM EMERGENCY STOP SWITCH. PROVIDE 3/4" CONDUIT TO CONTROLLER.
- VEHICLE EXHAUST CRAB CRAWL RETURN SYSTEM MANUAL START SWITCH. PROVIDE 3/4" CONDUIT TO CONTROLLER.
- JUNCTION BOX FOR GAS CONTROLLER SOLENOID POWER. REFER TO PLUMBING DRAWINGS FOR EXACT LOCATION ABOVE CEILING SPACE.
- ROUTE CIRCUITS THRU GAS SHUT OFF RELAY. SEE DIAGRAM ON SHEET E5.1 DETAIL #10.
- FUSED DISCONNECT SWITCH FOR SCBA UNIT. COORDINATE WITH ARCHITECT AND EQUIPMENT MANUFACTURER FOR EXACT LOCATION AND REQUIREMENTS PRIOR TO START OF WORK.
- PROVIDE MAINTAINED PUSH BUTTON WITH 4 SQUARE DEEP SINGLE GANG RING BOX AT +48" A.F.F. PROVIDE 3/4" CONDUIT TO APPLIANCE CONTROL DEVICE.
- 3-POLE MAGNETIC CONTACTOR.
- MICROWAVE ABOVE THE COUNTER. COORDINATE WITH ARCHITECTURAL DRAWINGS EXACT MOUNTING LOCATION AND HEIGHT. SHEET 1/AS.1.
- INDOOR FAN COIL RECEIVES POWER FROM OUTSIDE UNIT. REFER TO MECHANICAL DRAWINGS FOR LOCATION AND WIRING AND CONDUIT REQUIREMENT.
- RECEPTACLE FOR ALERT SYSTEM HPA AMP. COORDINATE WITH WESTNET FOR EXACT LOCATION PRIOR TO START OF WORK.
- GARBAGE DISPOSAL REFER TO PLUMBING DRAWING FOR TYPE AND SWITCHES.
- JUNCTION BOX FOR SPRINKLER BELL 120VAC POWER. COORDINATE WITH FIRE PROTECTION DRAWING PRIOR TO START OF WORK FOR EXACT LOCATION.
- PROVIDE FLOOR BOX OUTLET WITH USB COMBO (4-11/16" X 4-11/16" W X 3-1/8" D). COORDINATE WITH ARCHITECT FOR FINISHED COLOR TO MATCH FLOORING PRIOR TO START OF WORK.

STK
CONSULTANT

4095 ZEVIO DR., TEMECULA, CALIFORNIA 92590-3760
Phone: 951.296.8110 Fax: 951.296.6079 Email: sk@stkinc.com

Salas O'Brien
3220 Executive Ridge, Suite 210
Vista, CA 92081
760.560.0100
06-22-25 #2024-03417
www.salasobrien.com

PROJECT ADMINISTERED BY:
**SAN BERNARDINO COUNTY
PROJECT & FACILITIES
MANAGEMENT DEPARTMENT**

385 N. ARROWHEAD AVE.
SAN BERNARDINO, CA 92415

PROJECT NAME:
**SAN BERNARDINO
COUNTY FIRE
DEPARTMENT:
FIRE STATION 227**

PROJECT # 10J0J202

CIP #22-105

APN Part of 0154-281-01

180 W. 38TH STREET
SAN BERNARDINO,
CA 92405

ISSUE INFORMATION:

DATE:	INFORMATION:
9-11-24	D.D.s
10-26-24	PROGRESS
12-20-24	95% CDs
03-14-25	Plan Check
05-09-25	Plan Check
07-25-25	BID SET
08-25-25	BID SET

SHEET INFORMATION:

STK PROJECT NO.: 374-193-24
SCALE: AS NOTED
DATE: DECEMBER 2024
DRAWING NAME:
DRAWING NAME:

SEAL:



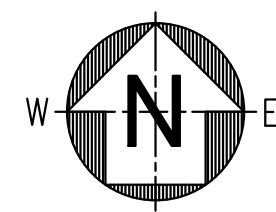
SHEET TITLE:

**POWER
FLOOR PLAN**

SHEET NO.:

E2.2

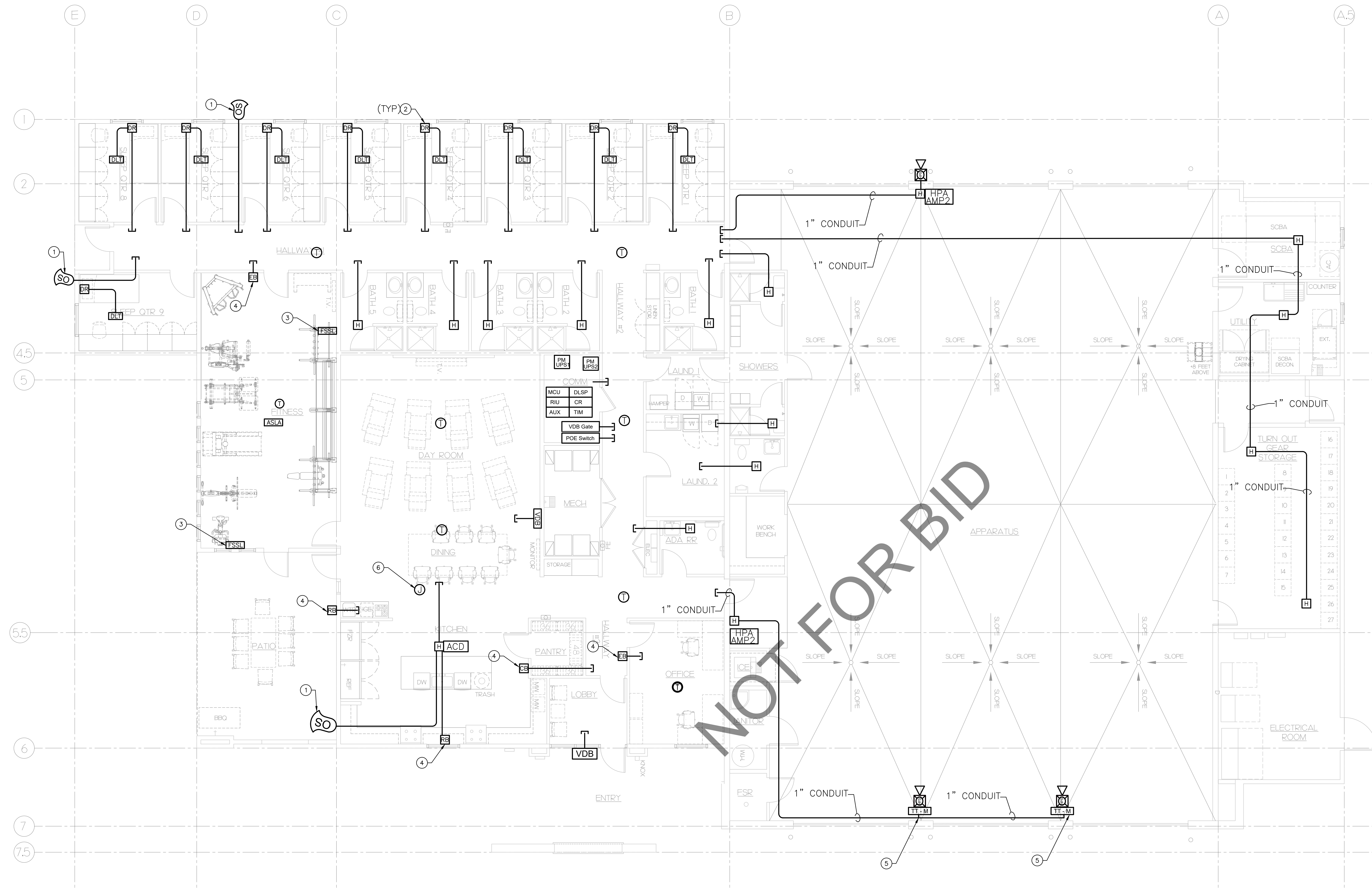
POWER FLOOR PLAN



SCALE:
1/8"=1'-0"

1

1/2024/04/17/01_08_Plan Notes 27/03/2024/04/17/01_08_Plan Notes 27/03/2024/04/17/01_08_Plan Notes



KEY NOTES

- 1 OUTDOOR SPEAKER. PROVIDE 4 SQUARE DEEP SINGLE GANG RING BOX MOUNTED EXTERIOR AT +10'-0" - +12'-0" AFF. PROVIDE 3/4" CONDUIT TO ACCESS CEILING SPACE. SEE MOUNTING DETAIL SHEET 3/ES.2.
- 2 DORM REMOTES. PROVIDE 8X10X4 HOFFMAN BACK BOX AT +48" A.F.F. RECESSED WITH 1/4" BEHIND SHEETROCK FACT. ALLOW MIN. +6" FROM ALL EDGES OF BOX OPENING TO KEEP CLEAR OF SWITCHES, OTHER TRACES, AND OF OVERLAPPING DOOR FRAME. PROVIDE 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE. SEE MOUNTING DETAIL SHEET 4/ES.2.
- 3 FIRE STATION STROBE LIGHT. MOUNT CUSTOM BACK BOX FROM WESTNET VERTICALLY AT +6'-0" A.F.F. TO BOTTOM. PROVIDE 1" CONDUIT TO ALERTING STROBE ADAPTER ALERTING STROBE MOUNTED AT +8'-0" - 10'-0" AFF. FIELD VERIFY MOUNTING HEIGHT AND LOCATION PRIOR TO START OF WORK.
- 4 BUTTONS AND SWITCHES. PROVIDE 4 SQUARE DEEP SINGLE GANG RING BOX AT +48" AFF. KEEP 6"-12" FROM DOOR FRAME. PROVIDE 3/4" CONDUIT STUB UP ABOVE CEILING TO ACCESSIBLE CEILING SPACE.
- 5 HIGH POWER AMPLIFIER. PROVIDE 10X10X4 BOX MOUNTED AT 10'-0" A.F.F. WITH 1" CONDUIT TO THE NEXT LOCATION. FIELD VERIFY EXACT LOCATION PRIOR TO START OF WORK.
- 6 PROVIDE ABOVE CEILING GRID JUNCTION BOX FOR APPLIANCE CONTROL DEVICE.

GENERAL NOTES

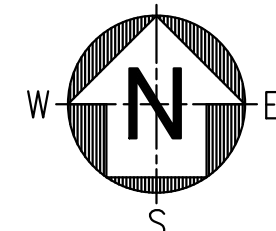
1. DEVICES ARE TYPICAL AND FOR REFERENCE ONLY.
2. ALL BACK BOXES & CONDUITS ARE TO BE FLUSH MOUNTED UNLESS OTHERWISE SPECIFIED FOR NEW CONSTRUCTION.
3. DEVICES LOCATED IN ACOUSTICAL CEILINGS DO NOT REQUIRE BACKBOXES.
4. DEVICES LOCATED IN ACOUSTICAL CEILINGS REQUIRE ACOUSTICAL WESTNET MOUNTING KIT (SSATKIT-A).
5. DEVICES ONLY LOCATED IN SHEETROCK OR EXPOSED CEILINGS REQUIRE HOFFMAN BRAND 8X10X4 BACKBOX.
6. DEVICES ONLY LOCATED IN SHEETROCK OR EXPOSED CEILINGS REQUIRE APPROPRIATE WESTNET MOUNTING KIT (SURFACE MOUNT OR FLUSH MOUNT) FOR NEW CONSTRUCTION.
7. LOCATIONS OF DEVICES DETERMINED AT INSTALLATION BY INSTALLER FOR NEW CONSTRUCTION.
8. SEE ARCHITECTURAL SPECIFICATION FOR ALL ROUGH-IN AND INSTALLATION DETAILS FOR NEW CONSTRUCTION.
9. INSTALLER TO VERIFY WALL AND CEILING TYPE TO DETERMINE NEED FOR FLUSH OR SURFACE MOUNT INSTALLATION OF EQUIPMENT SPECIFIED FOR NEW CONSTRUCTION.
10. ALL WIRING AND DEVICES TO BE INSTALLED BY WESTNET.
11. ALL PENETRATION TO EXTERIOR DEVICES MUST BE WEATHERPROOF AND FIRE CAULKED FOR CONSTRUCTION BY OTHERS.
12. DEVICES LOCATED IN BATHROOM/SOWER AREAS MUST BE VISIBLE FROM SHOWERS. INSTALLER TO FIELD VERIFY DEVICE LOCATION. (TYPICAL)
13. ALL DEVICES MUST BE KEPT CLEAR OF OBSTRUCTIONS & CEILING FAN BLADES.
14. IN ACOUSTICAL CEILING (T-BAR), WIRE CABLEING IS FREE WIRE (NOT IN CONDUIT).
15. IN GYPSUM BOARD CEILING (SHEET ROCK / HARD LID), WIRE CABLEING IN IN 3/4" CONDUIT UNLESS CONDUIT SIZE OTHERWISE NOTED.
16. IN EXPOSED AREAS ONLY 8X10X4 HOFFMAN BACK BOX MOUNTED AT +10'-0" A.F.F. MAX. WITH OPEN FACE DOWN IN CENTER OF ROOM WITH 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE, KEEP CLEAR OF OBSTRUCTIONS.
17. A 5 OHM EARTH GROUND MUST BE CONNECTED TO THE RADIO ISOLATION UNIT IN THE COMMUNICATION RACK.
18. THE RADIO RECEIVING THE DISPATCH INFORMATION SHALL BE LOCATED WITHIN 6'-0" FT. OF THE RADIO ISOLATION UNIT.
19. INSTALLER TO PROVIDE ONE ADDITIONAL UNCONNECTED BLUE CAT5 CABLE WITH RJ45 CONNECTORS ON BOTH ENDS BETWEEN THE MCU CONNECTIONS AND EACH ALERTING END POINT FOR NETWORK CONNECTIVITY.
20. BUTTONS AND SWITCHES:
 - *4 SQUARE DEEP SINGLE GANG RING BOX * MOUNTED +48" A.F.F.
 - *6" - 12" FROM DOOR FRAME
 - *3 /4" CONDUIT STUB UP ABOVE CEILING TO ACCESSIBLE CEILING SPACE.
 - *KEEP CLEAR OF OBSTRUCTIONS (TYPICAL)

FIRST-IN FIRE STATION ALERTING

SYMBOL LEGEND

	MASTER CONTROL UNIT
	DATA LINE SURGE PROTECTOR
	TELEPHONE INTERFACE MODULE
	CONTROL REMOTE
	RADIO ISOLATION UNIT
	AUXILIARY MODULE
	POWER MODULE WITH UPS-BLACK (DEDICATED 120V CIRCUIT REQUIRED).
	POWER MODULE WITH UPS-BLUE (DEDICATED 120V CIRCUIT REQUIRED).
	HIGH-POWERED AMPLIFIED SPEAKER IN CONJUNCTION WITH (HPA AMP)
	OUTSIDE SPEAKER - IN CONJUNCTION WITH (OSA)
	CUSTOM BACKBOX PROVIDED BY WESTNET
	DORM REMOTE BACKBOX PROVIDED WESTNET
	DORM LITE ACOUSTIC CEILING MOUNT KIT
	8x10x4 HOFFMAN BACKBOX
	ACOUSTIC CEILING KIT
	APPLIANCE CONTROL DEVICE
	APPLIANCE RESET BUTTON
	CHOW BUTTON
	VIDEO DOORBELL
	ALERTING STROBE LIGHT ADAPTER
	EMERGENCY BUTTON
	HIGH POWERED AMPLIFIER MODULE SINGLE
	HIGH POWERED AMPLIFIER MODULE DUAL
	VIDEO DOORBELL GATEWAY
	POWER ETHERNET SWITCH
	LOCATION OF DEVICE WALL MOUNTED

- CONTRACTOR NOTE:
1. ALL DEVICES SHOWN FOR BACKBOX AND CONDUIT LOCATION ONLY. ALL EQUIPMENT AND CABLEING TO BE PROVIDED AND INSTALLED BY WESTNET. COORDINATE WITH WESTNET FOR EXACT LOCATION PRIOR TO START OF WORK.
 2. CONDUIT ROUTING IS FOR REFERENCE ONLY.
 3. CONDUIT INSTALLER PLACE PULL BOXES AS NEEDED.
 4. CONDUIT BENDS NOT TO EXCEED 360 DEGREES.
 5. UNDERGROUND CONDUITS NOT PERMITTED.



SCALE: 1/8"=1'-0"

1

ALERT SYSTEM FLOOR PLAN



PROJECT ADMINISTERED BY:
SAN BERNARDINO COUNTY
PROJECT & FACILITIES
MANAGEMENT DEPARTMENT

385 N. ARROWHEAD AVE.
SAN BERNARDINO, CA 92415

PROJECT NAME:
SAN BERNARDINO
COUNTY FIRE
DEPARTMENT:
FIRE STATION 227

PROJECT # 10J0J202
CIP #22-105
APN Part of 0154-281-01

180 W. 38TH STREET
SAN BERNARDINO,
CA 92405

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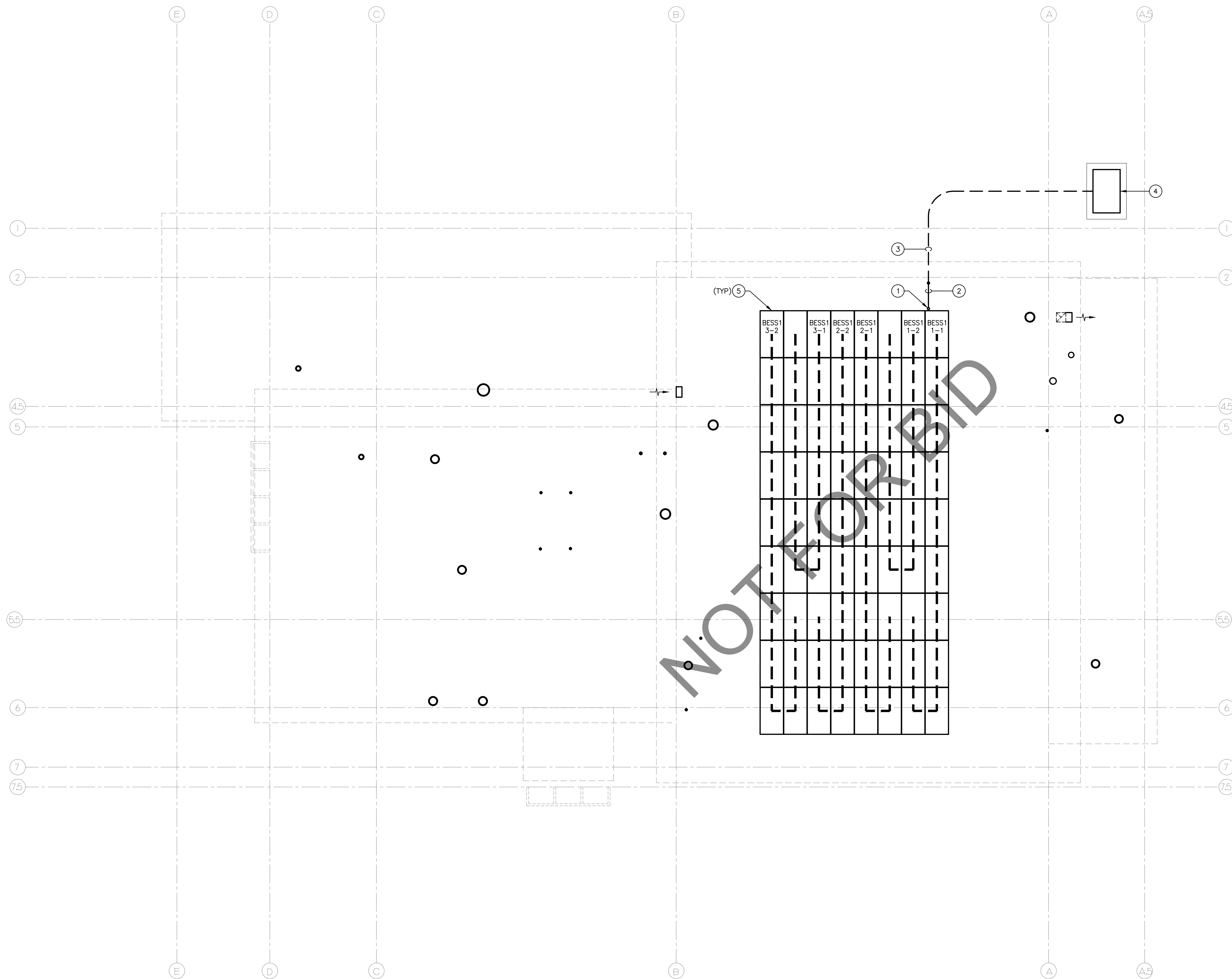
SHEET TITLE:

ALERT SYSTEM FLOOR PLAN

SHEET NO.:

E2.3

08/22/2025 5:55AM T:\2024\2417\2417-08-Fire Station 227\25-Solar\2024\2417-E2.4.dwg

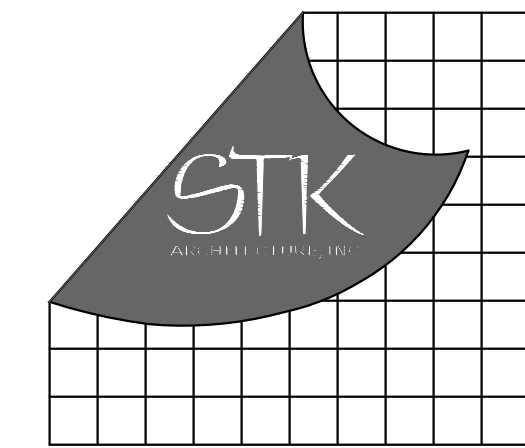


GENERAL NOTES

A. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND COORDINATE WITH ALL OTHER TRADES. IN CASE OF DISCREPANCIES OR ANY POTENTIAL CONFLICTS, INFORM THE ARCHITECT AND ENGINEER IN WRITING PRIOR TO START OF WORK.

KEY NOTES

- (1) 2" CONDUIT DOWN TO BATTERY ENERGY STORAGE SYSTEM 'BESS1' ON SITE BELOW FOR DC STRINGS WIRING. CONDUIT TO BE PLACED AS CLOSE AS PRACTICABLE TO SOLAR ARRAY TO CONCEAL STRING WIRING AS MUCH AS POSSIBLE FROM VIEW.
- (1) 2" CONDUIT ROUTED UNDER ROOF DECK OVER TO INTERIOR APPARATUS BAY WALL AND DOWN TO BELOW GRADE.
- (1) 2" BELOW GRADE OVER TO BATTERY ENERGY STORAGE SYSTEM 'BESS1' AS SHOWN.
- 30kW/81kWH BATTERY ENERGY STORAGE SYSTEM 'BESS1'.
- 580W SOLAR PANEL MODULE MOUNTED DIRECTLY TO STANDING SEAM ROOF UTILIZING 'S5' CLAMPS.



CONSULTANT:



PROJECT ADMINISTERED BY:
SAN BERNARDINO COUNTY
PROJECT & FACILITIES
MANAGEMENT DEPARTMENT

385 N. ARROWHEAD AVE.
SAN BERNARDINO, CA 92415

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SAN BERNARDINO,
CA 92405

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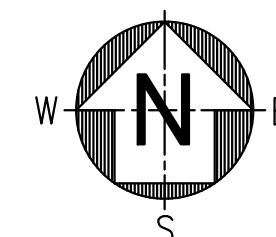


SHEET TITLE:

PHOTOVOLTAIC
ROOF PLAN

SHEET NO.:

E2.4



SCALE:
1/8"=1'-0"

1

PHOTOVOLTAIC ROOF PLAN