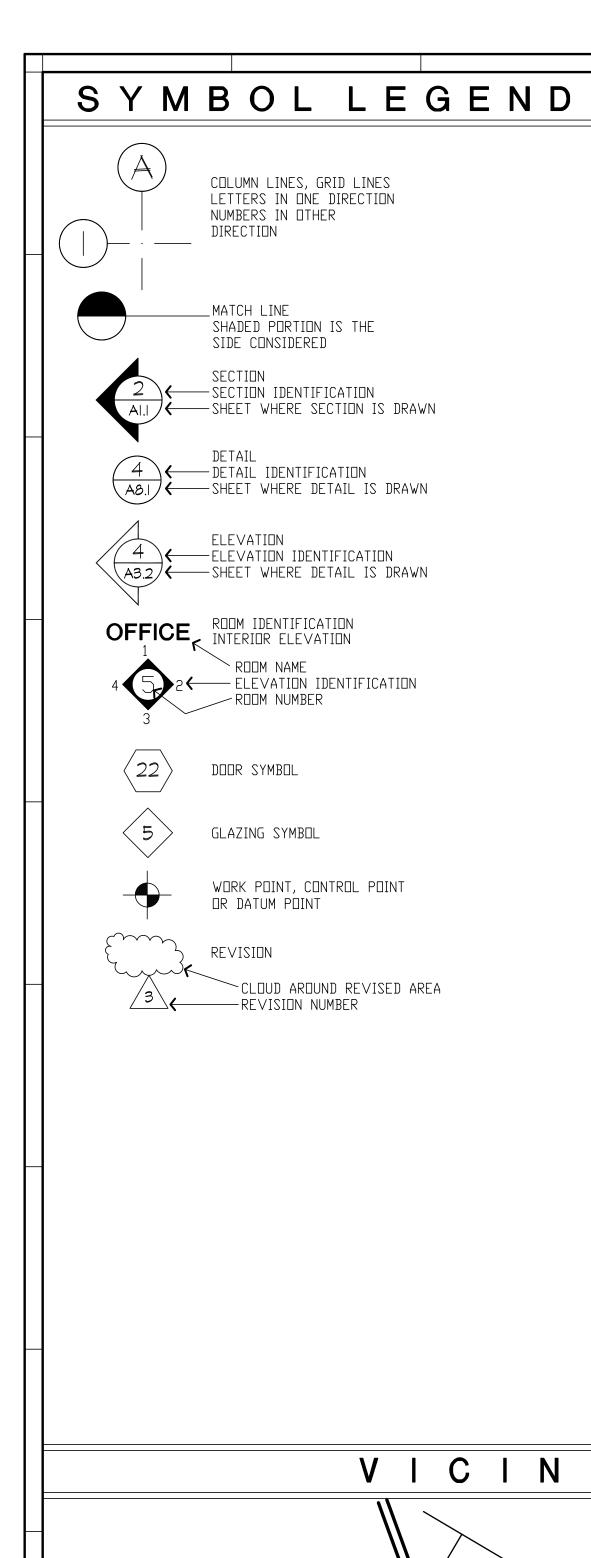
**INDIVIDUALS WARNING:** ALL INTERESTED IN BIDDING ON PROJECT MUST OBTAIN THE PLANS AND SPECIFICATIONS FROM THE DEPARTMENT MANAGING THE PROJECT OR AS OTHERWISE STATED IN THE ADVERTISEMENT FOR BIDS FOR THE PROJECT. DO NOT USE THE PLANS AND SPECIFICATIONS POSTED CLERK OF THE BOARD'S ON THE WFBSITF FOR BIDDING ON PROJECT.



**NORTH** 



## 100% CONSTRUCTION DOCUMENTS

# COLORADO RIVER STATION REMODEL

1111 BAILEY AVENUE NEEDLES, CA 92363

**FOR** 

## SAN BERNARDINO COUNTY

WBSE # 10.10.1220



# V I C I N I T Y M A P AGAINST DEFECTS IN WORKMANSHIP AND MATERIALS SUBSTANTIAL COMPLETION. 5. EXISTING ELECTRICAL POWER CONNECTION MAY BE USED LILLYHILL DRIVE PART 2, TITLE 24, CCR PART 4, TITLE 24, CCR

SAN CLEMENTE STREET

## GENERAL NOTES

- THE CONTRACTOR SHALL KEEP ON THE PROJEC TIMES DURING ALL CONSTRUCTION OPERATIONS, A COMPETENT SUPERINTENDENT, WHO WILL BE FOR THE COORDINATION OF ALL SUBCONTRACTORS AND QUALITY CONTROL OF THE PROJECT. XCEPT AS SPECIFICALLY PROVIDED, WORKING AND 2. ALL PORTIONS OF THE WORK SHALL BE GUARANTEEL
- FOR A MINIMUM PERIOD OF ONE (I) YEAR FROM DATE OF ESIGNATED BY THE OWNER. 3. SCAFFOLDING SHALL BE THE RESPONSIBILITY OF EACH
- TRADE REQUIRING SAME. SCAFFOLDING SHALL BE AS APPROVED BY THE STATE OF CALIFORNIA SAFETY ORDERS AND CAL-OSHA
- 4. ALL QUESTIONS RAISED BY THE GENERAL CONTRACTOR AND/OR SUBCONTRACTOR DURING THE CONSTRUCTION PERIOD WILL BE WRITTEN IN A REQUEST FOR INFORMATION (RFI) FORM.
- MPORARY POWER, BUT PAID FOR BY THE ACH CONTRACTOR SHALL PROVIDE HIS OWN EXTENSION
- EXISTING WATER METER AND LINE MAY BE USED FOR EMPORARY SERVICE HOOKUP, BUT PAID FOR BY
- THE CONTRACTOR SHALL PROVIDE TEMPORARY TOILET FACILITIES FOR USE OF ALL WORKMEN. THE CONTRACTOR SHALL PROVIDE TEMPORARY
  FACILITIES COMPLYING WITH LOCAL, STATE AND
  FEDERAL SANITARY LAWS AND REGULATIONS. MAINTAIN
  IN CLEAN, SANITARY CONDITION AND PROVIDE ADEQUATE SUPPLIES OF TOILET PAPER.
- THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY ENCLOSURES, DOORS AND TRANSPARENT PLASTIC WINDOWS REQUIRED TO PROTECT BUILDING FROM DAMAGE DUE TO CONSTRUCTION, VANDALISM, THE
- 2019 CALIFORNIA ADMINISTRATIVE CODE (CAC) PART I, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
- 2019 CALIFORNIA BUILDING CODE (CBC) BASED ON THE 2018 INTERNATIONAL BUILDING CODE (IBC)
- 2019 CALIFORNIA ELECTRICAL CODE (CEC) THE 2017 NATIONAL ELECTRICAL CODE (NEC)
- CALIFORNIA MECHANICAL CODE (CMC) BASED ON THE 2018 UNIFORM MECHANICAL CODE (CMC)

BASED ON THE 2018 UNIFORM PLUMBING CODE (UPC)

• 2019 CALIFORNIA PLUMBING CODE (CPC)

PART 5, TITLE 24, CCR

PART 9, TITLE 24, CCR BASED ON THE 2018 INTERNATIONAL FIRE CODE (IFC)

2019 CALIFORNIA FIRE CODE (CFC)

- 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL GREEN) PART 2, TITLE 24 C.C.R.
- 2018 NFPA 72

- CLIMATIC ELEMENTS, OR TO MAINTAIN SUITABLE TEMPERATURE DURING INSTALLATION OR FINISH WORK. THE CONTRACTOR SHALL PROVIDE ALL ITEMS REQUIRED IN CONNECTION WITH OSHA SAFETY PROGRAM.
- RAGE AREAS SHALL BE ENTIRELY WITHIN THE UNDARY OF THE PROPERTY. 13. CONSTRUCTION PERSONNEL MAY ONLY PARK IN AREAS
- Y PERSONNEL PARKING ON OTHER PROPERTY, DO SO AT THEIR OWN RISK AND SHOULD BE AWARE THAT THEIR VEHICLES MAY BE TICKETED AND/OR TOWED AT THEIR
- CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF INSTRUCTION AREA AND ANY STORAGE AREAS. 16. THE CONTRACTOR SHALL PROVIDE CONSTRUCTION
- THE CONTRACTOR SHALL PROVIDE SAMPLES OF ALL PAINT COLORS TO BE REVIEWED AND APPROVED BY OWNER <u>BEFORE</u> APPLICATION.
- 18. NO HAZARDOUS MATERIALS WILL BE STORED AND/ OR USED WITHIN THE BUILDINGS WHICH EXCEED THE QUANTITIES LISTED IN CBC TABLE. 307.1(1). 19. WALL AND CEILING MATERIALS SHALL NOT EXCEED THE
- FLAME SPREAD CLASSIFICATIONS IN CBC TABLE 803.9. 20. SUSPENDED CEILINGS SHALL COMPLY WITH ASTM-C635 21. PENETRATIONS OF FIRE-RESISTIVE WALLS SHALL BE
- PROTECTED AS REQUIRED IN C.B.C. 22. SIGNAGE REQUIREMENTS IN CBC SECTIONS 1117B.5 SHALL 23. CHANGES IN FLOOR LEVEL MAY NOT EXCEED & BEVELED AT I:2 GRADIENT ( $\frac{1}{4}$ " VERTICAL IS ALLOWABLE).

CODE REFERENCES

- 24. UNDERGROUND FIRE LINE PLANS AND AUTOMATIC FIRE SPRINKLER SYSTEMS ARE DEFERRED SUBMITTALS TO THE CITY OF NEEDLES AND OFFICE OF THE FIRE MARSHAL FOR REVIEW AND APPROVAL.
- 25. CONTRACTOR TO PROVIDE A CONSTRUCTION WASTE MANAGEMENT PLAN TO THE OWNER THAT:
- a. IDENTIFIES THE CONSTRUCTION & DEMOLITION WASTE MATERIALS TO BE DIVERTED FROM DISPOSAL BY EFFICIENT USAGE, RECYCLING, REUSE ON THE PROJECT
- OR SALVAGE FOR FUTURE. b. DETERMINES IF CONSTRUCTION & DEMOLITION WASTE MATERIALS WILL BE SORTED ON-SITE (SOURCE = SEPARATED) OR BULK MIXED (SINGLE STREAM).
- IDENTIFIES DIVERSION FACILITIES WHERE CONSTRUCTION & DEMOLITION WASTE MATERIALS COLLECTED WILL BE TAKEN. SPECIFIES THAT THE AMOUNT OF CONSTRUCTION &
- DEMOLITION WASTE MATERIALS SHALL BE CALCULATED BY WEIGHT OR VOLUME, BUT NOT BY THE CONTRACTOR'S GOAL SHALL BE TO RECYCLE AND/OR SALVAGE A MINIMUM OF 65% OF NON-HAZARDOUS CONSTRUCTION & DEMOLITION WASTE.
- 27. WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS, AND ANY CHANGES MADE DURING CONSTRUCTION THAT ARE NOT IN COMPLIANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS SHALL BE RESUBMITTED FOR APPROVAL AS AN AMENDED SET OF CONSTRUCTION DOCUMENTS.

#### FOUNDATION DETAILS PARTIAL ROOF FRAMING PLAN 54.2 PARTIAL ROOF FRAMING PLAN FRAMING DETAILS S5.2 FRAMING DETAILS S5.3 FRAMING DETAILS MO.I MECHANICAL COVERSHEET MO.2 SCHEDULES MO.3 ENERGY COMPLIANCE MO.4 ENERGY COMPLIANCE MI.O OVERALL DEMOLITION FLOOR PLAN - MECHANICAL MI.I OVERAL DEMOLITION ROOF PLAN - MECHANICAL M2.0 ZONING PLAN - MECHANICAL M2.I OVERALL FLOOR PLAN - MECHANICAL M2.2 ENLARGED FLOOR PLAN - SOUTH - MECHANICAL M2.3 ENLARGED FLOOR PLAN - NORTH - MECHANICAL M3.1 ROOF PLAN - MECHANICAL M4.I DETAILS M4.2 DETAILS

FOUNDATION DETAILS

GI.5 CALGREEN TABLES GI.6 TOPOGRAPHIC SURVEY

AI.I SITE PLAN

#### PO.I PLUMBING COVERSHEET PO.2 SCHEDULES

- PI.I ENLARGED DEMOLITION UNDERFLOOR PLAN SOUTH PLUMBING ENLARGED DEMOLITION UNDERFLOOR PLAN - NORTH - PLUMBING ENLARGED DEMOLITION PLAN - SOUTH - PLUMBING
- PI.4 ENLARGED DEMOLITION PLAN NORTH PLUMBING P2.I OVERALL FLOOR PLAN - PLUMBING P2.2 ENLARGED REMODEL UNDERFLOOR PLAN - SOUTH - PLUMBING P2.3 ENLARGED REMODEL UNDERFLOOR PLAN - NORTH - PLUMBING
- P2.4 ENLARGED REMODEL FLOOR PLAN SOUTH PLUMBING P2.5 ENLARGED REMODEL FLOOR PLAN - NORTH - PLUMBING P3.1 ROOF PLAN - PLUMBING
- P4.I DETAILS P4.2 DETAILS
- EO.I ELECTRICAL COVERSHEET EO.2 SINGLE LINE DIAGRAM - DEMOLITION EO.3 SINGLE LINE DIAGRAM - REMODEL
- EO.4 LIGHTING SCHEDULES EO.5 LIGHTING CONTROLS DIAGRAM EO.6 PANEL SCHEDULES EO.7 PANEL SCHEDULES EO.8 TECHNOLOGY SCHEDULES
- EO.9 TITLE 24 INDOOR LIGHTING CERTIFICATE E.IO TITLE 24 ELECTRICAL POWER DISTRIBUTION ENLARGED DEMOLITION LIGHTING PLAN - SOUTH ENLARGED DEMOLITION LIGHTING PLAN - NORTH
- ENLARGED DEMOLITION POWER PLAN SOUTH EI.4 ENLARGED DEMOLITION POWER PLAN - NORTH OVERALL DEMOLITION FLOOR PLAN - TECHNOLOGY OVERALL FLOOR PLAN - ELECTRICAL E2.2 ENLARGED REMODEL LIGHTING PLAN - SOUTH
  - E2.3 ENLARGED REMODEL LIGHTING PLAN NORTH E2.4 ENLARGED REMODEL POWER/SIGNAL PLAN - SOUTH E2.5 ENLARGED REMODEL POWER/SIGNAL PLAN - NORTH E2.6 ENLARGED REMODEL FIRE ALARM PLAN - SOUTH E2.7 ENLARGED REMODEL FIRE ALARM PLAN - NORTH
  - ROOF REMODEL PLAN ELECTRICAL E4.I DETAILS E4.2 DETAILS

OWNERSHIP OF INSTRUMENTS OF SERVICE

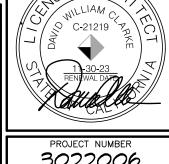
ALL REPORTS, PLANS, SPECIFICATIONS, COMPUTER FILES, FIELD DATA, NOTES AND OTHER DOCUMENTS AND INSTRUMENTS INCLUDING ALL DOCUMENTS ON ELECTRONIC MEDIA, PREPARED BY MARKS ARCHITECTS, INC. (MAI) AS INSTRUMENTS OF SERVICE SHALL REMAIN THE PROPERTY OF MAI. MAI SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING THE COPYRIGHT THERETO.

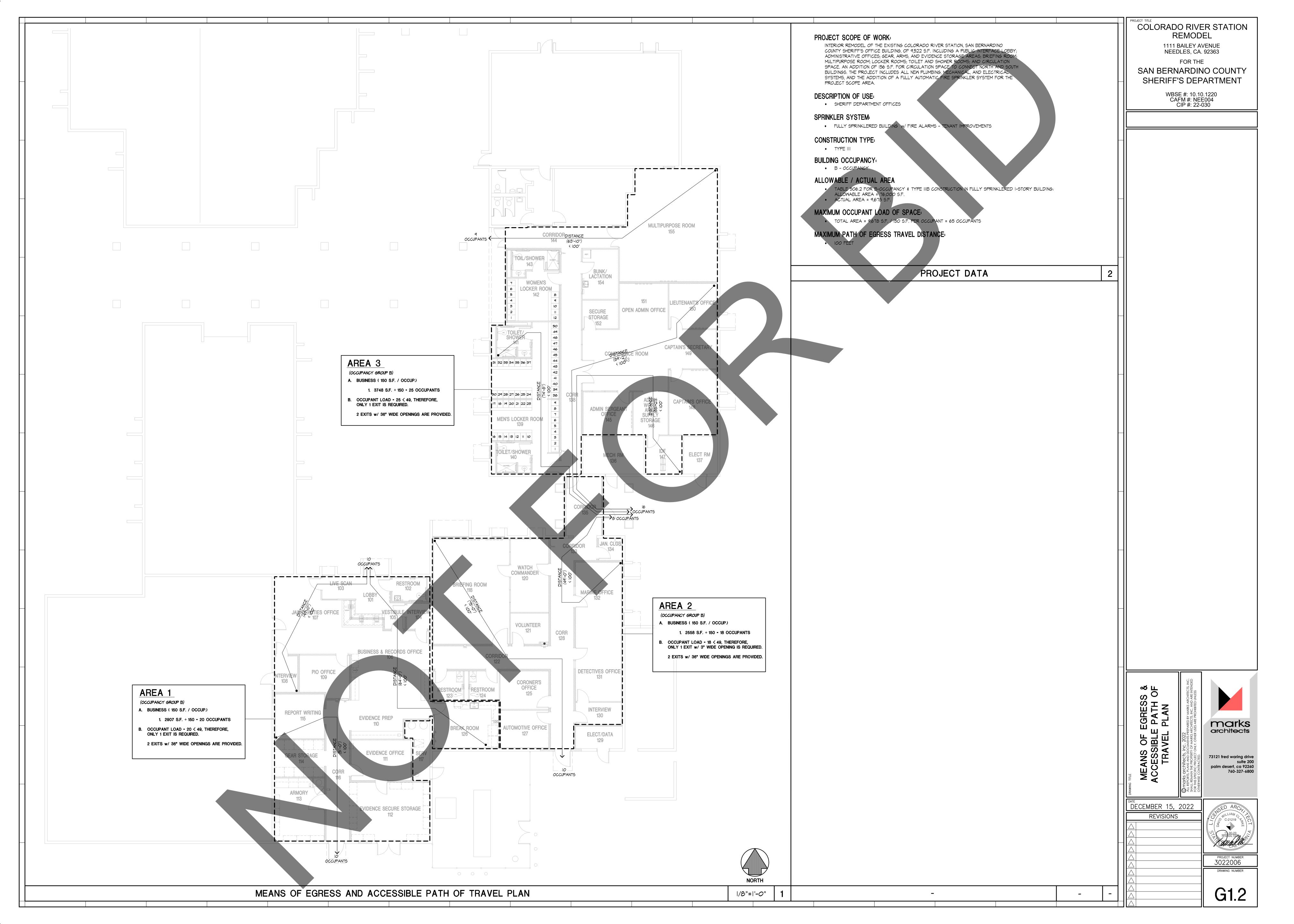
**ARCHITECT** CIVIL ENGINEER MECHANICAL / PLUMBING / ELECTRICAL / TECHNOLOGY / FIRE PROTECTION ENGINEERS STRUCTURAL ENGINEER LANDSCAPE ARCHITECT GEOTECHNICAL ENGINEER MARKS ARCHITECTS. INC. IMEG CORP. COMMERCIAL DEVELOPMENT RESOURCES TANG STRUCTURAL ENGINEERS. INC. SOTELO LANDSCAPE ARCHITECTS PETRA GEOSCIENCES. INC. 73121 FRED WARING DR., SUITE 200 4121 WESTERLY PLACE, SUITE 112 42-240 GREEN WAY, SUITE E 7950 CHERRY AVENUE, SUITE 114 901 VIA PIEMONTE, SUITE 400 2643 4TH AVENUE SAN DIEGO, CA 92103 PALM DESERT, CA 92260 NEWPORT BEACH, CA 92660 PALM DESERT, CA 92211 FONTANA, CA 92336 ONTARIO, CA 91764 (760) 327-6800 (949) 610-8997 (760) 340-5303 (909) 429-0450 (909) 477-6915 (619) 544-1977

**COLORADO RIVER STATION** TO DRAWINGS REMODEL 1111 BAILEY AVENUE TITLE SHEET - INDEX TO DRAWINGS NEEDLES, CA. 92363 MEANS OF EGRESS AND ACCESSIBILITY PATH OF TRAVEL PLAN SAN BERNARDINO COUNTY SHERIFF'S DEPARTMENT LI.O LANDSCAPE CONCEPT P WBSE #: 10.10.1220 CAFM #: NEE004 CIP #: 22-030 OVERALL DEMOLITION FLOOR F DEMOLITION EXTERIOR ELEVAN FERENCE PLAN, DOOR SCHEDULE, NOTES AND DOOR TYPES

> marks architects S D ЩΟ 73121 fred waring drive palm desert, ca 92260

DECEMBER 15, 2022 REVISIONS





# 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2020, Includes August 2019 Supplement)

**CHAPTER 3 GREEN BUILDING SECTION 301 GENERAL 301.1 SCOPE.** Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 301.3 NONRESIDENTIAL ADDITIONS AND ALTERATIONS. [BSC-CG] The provisions of individual sections of Chapter 5 apply to newly constructed buildings, building additions of 1,000 square feet or greater, and/or building alterations with a permit valuation of \$200,000 or above (for occupancies within the authority of California Building Standards Commission). Code sections relevant to additions and alterations shall only apply to the portions of the building being added or altered within the scope of the permitted work. A code section will be designated by a banner to indicate where the code section only applies to newly constructed buildings [N] or to additions and/or alterations [A]. When the code section applies to both, no banner will be used. 301.3.1 Nonresidential additions and alterations that cause updates to plumbing fixtures only: Note: On and after January 1, 2014, certain commercial real property, as defined in Civil Code Section 1101.3, shall have its noncompliant plumbing fixtures replaced with appropriate water-conserving plumbing fixtures under specific circumstances. See Civil Code Section 1101.1 et seq, for definitions, types of commercial real property affected, effective dates, circumstances necessitating replacement of noncompliant plumbing fixtures, and duties and responsibilities for ensuring compliance. **301.3.2 Waste Diversion.** The requirements of Section 5.408 shall be required for additions and alterations whenever a permit is required for work 301.4 PUBLIC SCHOOLS AND COMMUNITY COLLEGES. (see GBSC) 301.5 HEALTH FACILITIES. (see GBSC) SECTION 302 MIXED OCCUPANCY BUILDINGS **302.1 MIXED OCCUPANCY BUILDINGS.** In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy. **SECTION 303 PHASED PROJECTS 303.1 PHASED PROJECTS.** For shell buildings and others constructed for future tenant improvements, only those code measures relevant to the building components and systems considered to be new construction (or newly constructed) shall apply. **303.1.1 Initial Tenant improvements.** The provisions of this code shall apply only to the initial tenant improvements to a project. Subsequent tenant improvements shall comply with the scoping provisions in Section 301.3 non-residential additions and alterations. ABBREVIATION DEFINITIONS: Department of Housing and Community Development California Building Standards Commission Division of the State Architect, Structural Safety Office of Statewide Health Planning and Development Low Rise High Rise Additions and Alterations CHAPTER 5 NONRESIDENTIAL MANDATORY MEASURES PLANNING AND DESIGN DIVISION 5.1 **SECTION 5.101 GENERAL** The provisions of this chapter outline planning, design and development methods that include environmentally responsible site selection, building design, building siting and development to protect, restore and enhance the environmental quality of the site and respect the integrity of adjacent properties. **SECTION 5.102 DEFINITIONS** 5.102.1 DEFINITIONS The following terms are defined in Chapter 2 (and are included here for reference) CUTOFF LUMINAIRES. Luminaires whose light distribution is such that the candela per 1000 lamp lumens does not numerically exceed 25 (2.5 percent) at an angle of 90 degrees above nadir, and 100 (10 percent) at a vertical angle of 80 degrees above nadir. This applies to all lateral angles around the luminaire. LOW-EMITTING AND FUEL EFFICIENT VEHICLES. Eligible vehicles are limited to the following: 1. Zero emission vehicle (ZEV), including neighborhood electric vehicles (NEV), partial zero emission vehicle (PZEV), advanced technology PZEV (AT ZEV) or CNG fueled (original equipment manufacturer only) regulated under Health and Safety Code section 43800 and CCR, Title 13, Sections 1961 and 1962. High—efficiency vehicles, regulated by U.S. EPA, bearing High—Occupancy Vehicle (HOV) car pool lane stickers issued by the Department of Motor Vehicles. **NEIGHBORHOOD ELECTRIC VEHICLE (NEV).** A motor vehicle that meets the definition of "low-speed vehicle" either in Section 385.5 of the Vehicle Code or in 49CFR571.500 (as it existed on July 1, 2000), and is certified to zero-emission vehicle standards. TENANT-OCCUPANTS. Building occupants who inhabit a building during its normal hours of operation as permanent occupants, such as employees, as distinguished from customers and other transient visitors. VANPOOL VEHICLE. Eligible vehicles are limited to any motor vehicle, other than a motortruck or truck tractor, designed for carrying more than 10 but not more than 15 persons including the driver, which is maintained and used primarily for the nonprofit work—related transportation of adults for the purpose of ridesharing. Note: Source: Vehicle Code, Division 1, Section 668 **ZEV.** Any vehicle certified to zero-emission standards. **SECTION 5.106 SITE DEVELOPMENT** 5.106.1 STORM WATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB LESS THAN ONE ACRE OF LAND. Newly constructed projects and additions which disturb less than one acre of land, and are not part of a larger common plan of development or sale, shall prevent the pollution of storm water runoff from the construction activities through one or more of the following measures: **5.106.1.1 Local ordinance**. Comply with a lawfully enacted storm water management and/or erosion control 5.106.1.2 Best Management Practices (BMPs). Prevent the loss of soil through wind or water erosion by mplementing an effective combination of erosion and sediment control and good housekeeping BMPs. 1. Soil loss BMPs that should be considered for implementation as appropriate for each project include, but are not limited to, the following: a. Scheduling construction activity during dry weather, when possible. Preservation of natural features, vegetation, soil, and buffers around surface waters. Drainage swales or lined ditches to control stormwater flow. Mulching or hydroseeding to stabilize disturbed soils. Erosion control to protect slopes. Protection of storm drain inlets (gravel bags or catch basin inserts Perimeter sediment control (perimeter silt fence, fiber r Sediment trap or sediment basin to retain sediment on site. Stabilized construction exits. Wind erosion control. Other soil loss BMPs acceptable to the enforcing agency. 2. Good housekeeping BMPs to manage construction equipment, materials, non-stormwater discharges and wastes that should be considered for implementation as appropriate for each project include, but are not limited to, the following: a. Dewatering activities. Material handling and waste management. Building materials stockpile management. Management of washout areas (concrete, paints, stucco, etc.). Control of vehicle/equipment fueling to contractor's staging area. Vehicle and equipment cleaning performed off site.

Spill prevention and control.

Other housekeeping BMPs acceptable to the enforcing agency.

5.106.2 STORMWATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB ONE OR MORE ACRES OF LAND. Comply with all lawfully enacted stormwater discharge regulations for projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of a larger common plan of development sale. Note: Projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of the larger common plan of development or sale must comply with the post-construction requirements detailed in the applicable National Pollutant Discharge Elimination System (NPDES) General permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities issued by the State Water Resources Control Board or the Lahontan Regional Water Quality Control Board (for projects in the Lake Tahoe Hydrologic Unit). The NPDES permits require postconstruction runoff (post-project hydrology) to match the preconstruction runoff (pre-project hydrology) with the

installation of postconstruction stormwater management measures. The NPDES permits emphasize runoff reduction through on-site stormwater use, interception, evapotranspiration, and infiltration through nonstructural controls, such as Low Impact Development (LID) practices, and conversation design measures. Stormwater volume that cannot be addressed using nonstructural practices is required to be captured in structural practices and be approved by the enforcing agency.

Refer to the current applicable permits on the State Water Resources Control Board website at: www.waterboards.ca.gov/constructionstormwater. Consideration to the stormwater runoff management measures should be given during the initial design process for appropriate integration into site

5.106.4 BICYCLE PARKING. For buildings within the authority of California Building Standards Commission as specified n Section 103, comply with Section 5.106.4.1. For buildings within the authority of the Division of the State

Architect pursuant to Section 105, comply with Section 5.106.4.2 **5.106.4.1 Bicycle parking. [BSC-CG]** Comply with Sections 5.106.4.1.1 and 5.106.4.1.2; or meet the applicable local ordinance,

**5.106.4.1.1 Short-term bicycle parking.** If the new project or an addition or alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5% of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack.

**Exception:** Additions or alterations which add nine or less visitor vehicular parking spaces. **5.106.4.1.2 Long-term bicycle parking.** For new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5 percent of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility.

**5.106.4.1.3** For additions or alterations that add 10 or more tenant-occupant vehicular parking spaces, provide secure bicycle parking for 5 percent of the tenant vehicular parking spaces being added, with a minimum of one bicycle parking facility. 5.106.4.1.4 For new shell buildings in phased projects provide secure bicycle parking for 5 percent of the anticipated tenant-occupant

vehicular parking spaces with a minimum of one bicycle parking facility. 5.106.4.1.5 Acceptable bicycle parking facility for Sections 5.106.4.1.2, 5.106.4.1.3, and 5.106.4.1.4 shall be convenient from the street and

> 1. Covered, lockable enclosures with permanently anchored racks for bicycles; 2. Lockable bicycle rooms with permanently anchored racks; or 3. Lockable, permanently anchored bicycle lockers.

Note: Additional information on recommended bicycle accommodations may be obtained from Sacramento Area Bicycle Advocates. **5.106.4.2 Bicycle parking. [DSA-SS]** For public schools and community colleges, comply with Sections 5.106.4.2.1 and 5.106.4.2.2

**5.106.4.2.1 Student bicycle parking.** Provide permanently anchored bicycle racks conveniently accessed with a minimum of four two-bike capacity racks per new building. **5.106.4.2.2 Staff bicycle parking.** Provide permanent, secure bicycle parking conveniently accessed with a minimum of two staff bicycle parking spaces per new building. Acceptable bicycle parking facilities shall be convenient from the street or staff parking area and shall meet one of the following:

> 1. Covered, lockable enclosures with permanently anchored racks for bicycles; 2. Lockable bicycle rooms with permanently anchored racks; or 3. Lockable, permanently anchored bicycle lockers.

5.106.5.2 DESIGNATED PARKING FOR CLEAN AIR VEHICLES. In new projects or additions or alterations that add 10 or more vehicular parking spaces, provide designated parking for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles as follows:

TABLE 5.106.5.2 - PARKING TOTAL NUMBER OF PARKING SPACES NUMBER OF REQUIRED SPACES 0 - 910 - 2525 - 5051-75 76-100 101-150

5.106.5.2.1 - Parking stall marking. Point, in the paint used for stall striping, the following characters such that the lower edge of the last word aligns with the end of the stall striping and is visible beneath a parked vehicle: CLEAN AIR / VAN POOL / EV

AT LEAST 8% OF TOTAL

Note: Vehicles bearing Clean Air Vehicle stickers from expired HOV lane programs may be considered eligible for designated parking spaces.

**5.106.5.3 Electric vehicle (EV) charging. [N]** Construction shall comply with Section 5.106.5.3.1 or Section 5.106.5.3.2 to facilitate nstallation of electric vehicle supply equipment (EVSE). When EVSE(s) is/are installed, it shall be in accordance with the nia Building Code, the California Electrical Code and as follows:

**5.106.5.3.1 Single charging space requirements.** [N] When only a single charging space is required per Table 5.106.5.3.3, a raceway is required to be installed at the time of construction and shall be installed in accordance with the California Electrical Code. Construction plans and specifications shall include, but are not limited to, the following:

1. The type and location of the EVSE

151-200

201 AND Q

2. A listed raceway capable of accommodating a 208/240 -volt dedicated branch circuit. 3. The raceway shall not be less than trade size 1"

4. The raceway shall originate at a service panel or a subpanel serving the area, and shall terminate in close proximity to the proposed location of the charging equipment and listed suitable cabinet, box, enclosure or

5. The service panel or subpanel shall have sufficient capacity to accommodate a minimum 40-ampere dedicated

branch circuit for the future installation of the EVSE. **5.106.5.3.2** Multiple charging space requirements. [N] When multiple charging spaces are required per Table 5.106.5.3.3 eway(s) is/are required to be installed at the time of construction and shall be installed in accordance with the California Electrical de. Construction plans and specifications shall include, but are not limited to, the following:

. The type and location of the EVSE. 2. The raceway(s) shall originate at a service panel or a subpanel(s) serving the area, and shall terminate in close proximity to the proposed location of the charging equipment and into listed suitable cabinet(s), box(es).

enclosure(s) or equivalent. 3. Plan design shall be based upon 40-ampere minimum branch circuits.

4. Electrical calculations shall substantiate the design of the electrical system, to include the rating of equipment and any on-site distribution transformers and have sufficient capacity to simultaneously charge all required EVs at its The service panel or subpanel(s) shall have sufficient capacity to accommodate the required number of dedicated branch circuit(s) for the future installation of the EVSE.

**5.106.5.3.3 EV charging space calculations. [N]** Table 5.106.5.3.3 shall be used to determine if single or multiple charging space requirements apply for the future installation of EVSE.

**Exceptions:** On a case-by-case basis where the local enforcing agency has determined EV charging and infrastructure is not feasible based upon one or more of the following conditions:

. Where there is insufficient electrical supply. 2. Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.

TABLE 5.106.5.3.3		
TOTAL NUMBER OF PARKING SPACES	NUMBER OF REQUIRED SPACES	
0-9	0	
10-25	1	
26-50	2	
51-75	4	
76–100	5	
101-150	7	
151-200	10	
201 AND OVER	6% of total¹	

1. Calculation for spaces shall be rounded up to the nearest whole number.

5.106.5.3.4 [N] Identification. The service panel or subpanel(s) circuit directory shall identify the reserved overcurrent protective device space(s) for future EV charging as "EV CAPABLE". The raceway termination Location shall be permanently and visibly marked as "EV

5.106.5.3.5 [N] Future charging spaces qualify as designated parking as described in Section 5.106.5.2 Designated parking for clean air vehicles.

5.106.8 LIGHT POLLUTION REDUCTION. [N].I Outdoor lighting systems shall be designed and installed to comply with the following:

The minimum requirements in the California Energy Code for Lighting Zones 0-4 as defined in Chapter 10, Section 10-114 of the California Administrative Code; and . Backlight (B) ratings as defined in IES TM-15-11 (shown in Table A-1 in Chapter

3. Uplight and Glare ratings as defined in California Energy Code (shown in Tables 130.2-A and 130.2-B in Chapter 8) and 4. Allowable BUG ratings not exceeding those shown in Table 5.106.8, [N] or Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent.

as exceptions in Section 140.7 of the California Energy Code.

ing facade meeting the requirements in Table 140.7—B of the California Energy Code, Part 6. Custom lighting features as allowed by the local enforcing agency, as permitted by Section 101.8 Alternate materials, designs and methods of construction.

See also California Building Code, Chapter 12, Section 1205.6 for college campus lighting

property line

Luminaire back hemisphere is

-2 MH from property line

Luminaire back hemisphere is

0.5-1 MH from property line

Luminaire back hemisphere is

requirements for parking facilities and walkways. Refer to Chapter 8 (Compliance Forms, Worksheets and Reference Material) for IES TM-15-11 Table A-1, California Energy Code Tables 130.2-A and 130.2-B. Refer to the California Building Code for requirements for additions and alterations.

TABLE 5.106.8 [N] M. GLARE (BUG) RATINGS 1,2	AXIMUM ALLO	)WABLE BAC	KLIGHT, UPLI	GHT AND	
ALLOWABLE RATING	LIGHTING ZONE LZ0	LIGHTING ZONE LZ1	LIGHTING ZONE LZ2	LIGHTING ZONE LZ3	LIGHTING Z LZ4
MAXIMUM ALLOWABLE BACKLIGHT RATING 3					
Luminaire greater than 2 mounting heights (MH) from	N/A	No Limit	No Limit	No Limit	No Limi

less than 0.5 MH from property line	N/A	В0	В0	B1	B2	
MAXIMUM ALLOWABLE UPLIGHT RATING (U)						
For area lighting 4	N/A	UO	UO	U0	UO	]   E
For all other outdoor lighting,including decorative luminaires	N/A	U1	U2	U3	UR	
MAXIMUM ALLOWABLE GLARE RATING 5 (G)						
Luminaire greater than 2 MH from property line	N/A	G1	G2	G3	G4	
Luminaire front hemisphere is 1-2 MH from property line	N/A	GO	G1	G1	G2	
Luminaire front hemisphere is 0.5—1 MH from property line	N/A	GO	G0	G1	G1	
Luminaire back hemisphere is less than 0.5 MH from	N/A	GO	G0	GO	G1	

. IESNA Lighting Zones 0 and 5 are not applicable; refer to Lighting Zones as defined in the California Energy Code and Chapter 10 of the Callifornia Administrative Code. 2. For property lines that abut public walkways, bikeways, plazas and parking lots, the property line may be considered to be 5 feet beyond the actual property line for purpose of determining compliance with this section. For property lines that abut public roadways and public transit corridors, the property line may be considered to be the centerline of the public roadway or public transit corridor for the purpose of determining compliance with this section. 3. If the nearest property line is less than or equal to two mounting heights from the back hemisphere of the luminaire distribution, the applicable reduced Backlight rating shall be met.

4. General lighting luminaires in areas such as outdoor parking, sales or storage lots shall meet these reduced ratings. Decorative luminaires located in these areas shall meet U-value limits for "all other outdoor lighting".

5. If the nearest property line is less than or equal to two mounting heights from the front

hemisphere of the luminaire distribution, the applicable reduced Glare rating shall be met. **5.106.10 GRADING AND PAVING.** Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water

Water collection and disposal systems. French drains.

include, but are not limited to, the following:

Water retention gardens. 5. Other water measures which keep surface water away from buildings and aid in groundwater recharge. **Exception:** Additions and alterations not altering the drainage path.

5.106.12 SHADE TREES [DSA-SS]. Shade Trees shall be planted to comply with Sections 5.106.12.1, 5.106.12.2, and 5.106.12.3. Percentages shown shall be measured at noon on the summer solstice. Landscape irrigation necessary to establish and maintain tree health shall comply with Section 5.304.6.

106.12.1 Surface parking areas. Shade tree plantings, minimum #10 container size or equal, shall be installed to byide shade over 50 percent of the parking area within 15 years.

exceptions: The surface parking area covered by solar photovoltaic shade structures, or shade structures, with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5, are not included in the total area calculations. **5.106.12.2 Landscape areas.** Shade tress plantings, minimum #10 container size or equal shall be installed to provide shade of 20% of the landscape area within 15 years.

**Exceptions:** Playfields for organized sport activity are not included in the total area calculation.

**5.106.12.3. Hardscape areas.** Shade tree plantings, minimum #10 container size or equal shall be installed to provide shade over 20 percent of the hardscape area within 15 years.

**Exceptions:** Walks, hardscape areas covered by solar photovoltaic shade structures, and hardscape areas covered by shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5, are not included in the total area calculation.

### **ENERGY EFFICIENCY**

The volume or cycle duration can be fixed or adjustable.

5.201.1 Scope [BSC-CG]. California Energy Code [DSA-SS]. For the purposes of mandatory energy efficiency standards in his code, the California Energy Commission will continue to adopt mandatory building standards.

WATER EFFICIENCY AND CONSERVATION DIVISION 5.3 SECTION 5.301 GENERAL

**5.301.1 Scope.** The provisions of this chapter shall establish the means of conserving water use indoors, outdoors and in wastewater conveyance.

SECTION 5.302 DEFINITIONS **5.302.1 Definitions.** The following terms are defined in Chapter 2 (and are included here for reference)

EVAPOTRANSPIRATION ADJUSTMENT FACTOR (ETAF) [DSA-SS]. An adjustment factor when applied to reference evapotranspiration that adjusts for plant factors and irrigation efficiency, which ae two major influences on the amount of water that needs to be applied to the landscape.

ot including exterior areas such as stairs, covered walkways, patios and decks **METERING FAUCET**. A self—closing faucet that dispenses a specific volume of water for each actuation cycle.

FOOTPRINT AREA [DSA-SS]. The total area of the furthest exterior wall of the structure projected to natural grade,

**GRAYWATER.** Pursuant to Health and Safety Code Section 17922.12, "graywater" means untreated wastewater that nas not been contaminated by any toilet discharge, has not been affected by infectious, contaminated, or unhealthy bodily wastes, and does not present a threat from contamination by unhealthful processing. nanufacturing, or operating wastes. "Graywater" includes, but is not limited to wastewater from bathtubs, showers, bathroom washbasins, clothes washina machines and laundry tubs, but does not include waste water from

kitchen sinks or dishwashers. MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). The California ordinance regulating landscape design, nstallation and maintenance practices that will ensure commercial, multifamily and other developer installed andscapes greater than 2500 square feet meet an irrigation water budget developed based on landscaped area and climatological parameters.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). [HCD] The California model ordinance (California Code of Regulations, Title 23, Division 2, Chapter 2.7), regulating landscape design, installation and maintenance practices. Local agencies are required to adopt the updated MWELO, or adopt a local ordinance at least as effective as the

**POTABLE WATER.** Water that is drinkable and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards. See definition in the California Plumbing Code, Part 5.

**POTABLE WATER.[HCD]** Water that is satisfactory for drinking, culinary, and domestic puroses, and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards and the requirements of the Health Authority

**RECYCLED WATER.** Water which, as a result of treatment of waste, is suitable for a direct beneficial use or a controlled use that would not otherwise occur [Water Code Section 13050 (n)]. Simply put, recycled water is water reated to remove waste matter attaining a quality that is suitable to use the water again.

**SUBMETER.** A meter installed subordinate to a site meter. Usually used to measure water intended for one purpose, such as landscape irrigation. For the purposes of CALGreen, a dedicated meter may be considered a

**NATER BUDGET.** Is the estimated total landscape irrigation water use which shall not exceed the maximum applied water allowance calculated in accordance with the Department of Water Resources Model Efficient Landscape

SECTION 5.303 INDOOR WATER USE **5.303.1 METERS.** Separate submeters or metering devices shall be installed for the uses described in Sections

**5.303.1.1 Buildings in excess of 50,000 square feet.** Separate submeters shall be installed as follows:

1. For each individual leased, rented or other tenant space within the building projected to consume more than 100 gal/day (380 L/day), including, but not limited to, spaces used for laundry or cleaners,

restaurant or food service, medical or dental office, laboratory, or beauty salon or barber shop. Where separate submeters for individual building tenants are unfeasible, for water supplied to the

Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s). Makeup water for evaporative coolers greater than 6 gpm (0.04 L/s). c. Steam and hot water boilers with energy input more than 500,000 Btu/h (147 kW).

5.303.1.2 Excess consumption. A separate submeter or metering device shall be provided for any tenant within a new building or within an addition that is projected to consume more than 1,000 gal/day.

**5.303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS.** Plumbing fixtures (water closets and urinals) and ittings (faucets and showerheads) shall comply with the following:

**5.303.3.1 Water Closets.** The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank—type water closets shall be certified to the performance criteria of the U.S. EPA Water Sense Specification for Tank-Type toilets.

Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.

**5.303.3.2.1 Wall-mounted Urinals.** The effective flush volume of wall-mounted urinals shall not exceed

0.125 gallons per flush. **5.303.3.2.2 Floor-mounted Urinals.** The effective flush volume of floor-mounted or other urinals shall

**5.303.3.3.1 Single showerhead.** Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S.

not exceed 0.5 gallons per flush.

EPA WaterSense Specification for Showerheads. **5.303.3.3.2 Multiple showerheads serving one shower.** When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by

a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time. **Note:** A hand-held shower shall be considered a showerhead.

COLORADO RIVER STATION REMODEL

> 1111 BAILEY AVENUE NEEDLES, CA. 92363

SAN BERNARDINO COUNTY

SHERIFF'S DEPARTMENT

WBSE #: 10.10.1220

CAFM #: NEE004 CIP #: 22-030

DECEMBER 15, 2022 REVISIONS

3022006

G1.3

CALGREEN CHECKLIST

marks architects 73121 fred waring drive palm desert, ca 92260

## 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 2 (January 2020, Includes August 2019 Supplement)

SECTION 5.407 WATER RESISTANCE AND MOISTURE MANAGEMENT **5.410.2 COMMISSIONING. [N]** New buildings 10,000 square feet and over. For new buildings 10,000 square feet and over, 5.410.4.4 Reporting. After completion of testing, adjusting and bala provide a final report of testing **5.407.1 WEATHER PROTECTION.** Provide a weather-resistant exterior wall and foundation envelope as required by building commissioning shall be included in the design and construction processes of the building project to verify signed by the individual responsible for performing these services 5.303.3.4 Faucets and fountains. California Building Code Section 1402.2 (Weather Protection), manufacturer's installation instructions or local that the building systems and components meet the owner's or owner representative's project requirements. Commissioning shall be performed in accordance with this section by trained personnel with experience on projects ordinance, whichever is more stringent. **5.303.3.4.1 Nonresidential Lavatory faucets.** Lavatory faucets shall have a maximum flow rate of not **5.410.4.5 Operation and maintenance (O & M) manual.** Provide the building owner or representative with of comparable size and complexity. For I-occupancies that are not regulated by OSHPD or for I-occupancies and more than 0.5 gallons per minute at 60 psi. detailed operating and maintenance instructions and copies of guaranties/warranties for each system. L-occupancies that are not regulated y the California Energy Code Section 100.0 Scope, all requirements in 5.407.2 MOISTURE CONTROL. Employ moisture control measures by the following methods. 0 & M instructions shall be consistent with OSHA requirements in CCR, Title 8, Section 5142, and other Sections 5.410.2 through 5.410.2.6 shall apply. **5.303.3.4.2 Kitchen faucets.** Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons related regulations. **5.407.2.1 Sprinklers.** Design and maintain landscape irrigation systems to prevent spray on structures. per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, **Note:** For energy—related systems under the scope (Section 100) of the California Energy Code, including. but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of **■** □ ARCH 5.410.4.5.1 Inspections and reports. Include a copy of all inspection verifications and reports required ventilation, air conditioning (HVAC) systems and controls, indoor lighting systems and controls, as well as water **5.407.2.2 Entries and openings.** Design exterior entries and/or openings subject to foot traffic or wind-driven 1.8 gallons per minute at 60 psi. rain to prevent water intrusion into buildings as follows: heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirement **5.303.3.4.3 Wash fountains.** Wash fountains shall have a maximum flow rate of not more than 1.8 ■ □ ARCH **5.407.2.2.1 Exterior door protection.** Primary exterior entries shall be covered to prevent water intrusion by Commissioning requirements shall include: gallons per minute/20 [rim space (inches) at 60 psi]. DIVISION 5.5 ENVIRONMENTAL QUALITY using nonabsorbent floor and wall finishes within at least 2 feet around and perpendicular to such openings Owner's or Owner representative's project requirements. plus at least one of the following: **5.303.3.4.4 Metering faucets.** Metering faucets shall not deliver more than 0.20 gallons per cycle. SECTION 5.501 GENERA 5.501.1 SCOPE. The provisions of this chapter shall outline means of reducing the quantity of air contaminants that An installed awning at least 4 feet in depth. Commissioning measures shown in the construction documents. **5.303.3.4.5 Metering faucets for wash fountains.** Metering faucets for wash fountains shall have a are odorous, irritating, and/or harmful to the comfort and well—being of a building's installers, occupants and Commissioning plan. The door is protected by a roof overhang at least 4 feet in depth. maximum flow rate of not more than 0.20 gallons per minute/20 [rim space (inches) at 60 psi]. The door is recessed at least 4 feet. Functional performance testing. 4. Other methods which provide equivalent protection. Documentation and training. **Note:** Where complying faucets are unavailable, aerators or other means may be used to achieve **5.502.1 DEFINITIONS.** The following terms are defined in Chapter 2 (and are included here for reference) Commissioning report. reduction. 5.407.2.2.2 Flashing. Install flashings integrated with a drainage plane. ARTERIAL HIGHWAY. A general term denoting a highway primarily for through traffic usually on a continuous route. 5.303.4 COMMERCIAL KITCHEN EQUIPMENT. A-WEIGHTED SOUND LEVEL (dBA). The sound pressure level in decibels as measured on a sound level meter using the SECTION 5.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING Unconditioned warehouses of any size. ernationally standardized A—weighting filter or as computed from sound spectral data to which A—weighting **5.303.4.1 Food Waste Disposers.** Disposers shall either modulate the use of water to no more than 1 gpm Areas less than 10,000 square feet used for offices or other conditioned accessory spaces within **5.408.1 CONSTRUCTION WASTE MANAGEMENT.** Recycle and/or salvage for reuse a minimum of 65% of the when the disposer is not in use (not actively grinding food waste/no—load) or shall automatically shut off unconditioned warehouses. non-hazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or after no more than 10 minutes of inactivity. Disposers shall use no more than 8 gpm of water. Tenant improvements less than 10,000 square feet as described in Section 303.1.1. Open parking garages of any size, or open parking garage areas, of any size, within a structure. meet a local construction and demolition waste management ordinance, whichever is more stringent. BTU/HOUR. British thermal units per hour, also referred to as Btu. The amount of heat required to raise one **Note:** This code section does not affect local jurisdiction authority to prohibit or require disposer installation. ound of water one degree Fahrenheit per hour, a common measure of heat transfer rate. A ton of refrigeration **5.408.1.1 Construction waste management plan.** Where a local jurisdiction does not have a construction and s 12,000 Btu, the amount of heat required to melt a ton (2,000 pounds) of ice at 32<sup>0</sup> Fahrenheit. **5.303.5 AREAS OF ADDITION OR ALTERATION.** For those occupancies within the authority of the California Building Note: For the purposes of this section, unconditioned shall mean a building, area, or room which does not demolition waste management ordinance, submit a construction waste management plan that: Standards Commission as specified in Section 103, the provisions of Section 5.303.3 and 5.303.4 shall apply to provide heating and or air conditioning. COMMUNITY NOISE EQUIVALENT LEVEL (CNEL). A metric similar to the day—night average sound level (Ldn), except new fixtures in additions or areas of alteration to the building. 1. Identifies the construction and demolition waste materials to be diverted from disposal by that a 5 decibel adjustment is added to the equivalent continuous sound exposure level for evening hours (7pm Informational Notes: efficient usage, recycling, reuse on the project or salvage for future use or sale. to 10pm) in addition to the 10 dB nighttime adjustment used in the Ldn. **PLUMB** 5.303.6 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures and fittings shall be installed in 2. Determines if construction and demolition waste materials will be sorted on—site accordance with the California Plumbing Code, and shall meet the applicable standards referenced in Table 1701.1 of 1. IAS AC 476 is an accreditation criteria for organizations providing training and/or certification of (source—separated) or bulk mixed (single stream). COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium density the California Plumbing Code and in Chapter 6 of this code. commissioning personnel. AC 476 is available to the Authority Having Jurisdiction as a reference for . Identifies diversion facilities where construction & demolition waste material collected will be taken fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural panels, structural qualifications of commissioning personnel. AC 476 des not certify individuals to conduct function performance tests or to adjust and balance systems. 4. Specifies that the amount of construction and demolition waste materials diverted shall be composite lumber, oriented strand board, glued laminated timber, timber, prefabricated wood I—joists or calculated by weight or volume, but not by both. finger-jointed lumber, all as specified in California Code of Regulations (CCR), Title 17, Section 93120.1(a). 2. Functional performance testing for heating, ventilation, air conditioning systems and **5.408.1.2 Waste Management Company.** Utilize a waste management company that can provide verifiable **SECTION 5.304 OUTDOOR WATER USE** Note: See CCR, Title 17, Section 93120.1. must be performed in compliance with the California Energy Code. documentation that the percentage of construction and demolition waste material diverted from the landfill 5.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. Nonresidential developments shall comply with a local water efficient complies with this section. **DAY-NIGHT AVERAGE SOUND LEVEL (Ldn).** The A-weighted equivalent continuous sound exposure level for a 24-hour landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is period with a 10 dB adjustment added to sound levels occurring during nighttime hours (10p.m. to 7 a.m.). 5.410.2.1 Owner's or Owner Representative's Project Requirements (OPR). [N] The expectations and Note: The owner or contractor shall make the determination if the construction and demolition waste requirements of the building appropriate to its phase shall be documented before the design phase of the material will be diverted by a waste management company. DECIBEL (db). A measure on a logarithmic scale of the magnitude of a particular quantity (such as sound pressure, pegins. This documentation shall include the following: sound power, sound intensity) with respect to a reference quantity. 1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code of Regulations, mental and sustainability goals. **Exceptions to Sections 5.408.1.1 and 5.408.1.2:** Title 23, Chapter 2.7, Division 2. Building sustainable goals. **ELECTRIC VEHICLE (EV).** An automotive—type vehicle for on—road use, such as passenger automobiles, buses, trucks, 2. MWELO and supporting documents, including a water budget calculator, are available at: Indoor environmental quality requirements. 1. Excavated soil and land-clearing debris. vans, neighborhood electric vehicles, electric motorcycles, and the like, primarily powered by an electric motor that https://www.water.ca.gov/. Project program, including facility functions and hours of operation, and need for after hours 2. Alternate waste reduction methods developed by working with local agencies if diversion or draws current from a rechargeable storage battery, fuel cell, photovoltaic array, or other source of electric recycle facilities capable of compliance with this item do not exist. 5.304.6 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. For public schools and community colleges, landscape projects as current. Plug—in hybrid electric vehicles (PHEV) are considered electric vehicles. For purposes of the *California* Equipment and systems expectation 3. Demolition waste meeting local ordinance or calculated in consideration of local recycling described in Sections 5.304.6.1 and 5.304.6.2 shall comply with the California Department of Water Resources Model Water Efficient Landscape Electrical Code, off-road, self-propoelled electric vehicles, such as industrial trucks, hoists, lifts, transports, golf Building occupant and operation and maintenance (0&M) personnel expectations. carts, airline ground support equipment, tractors, boats, and the like, are not included. Ordinance (MWELO) commencing with Section 490 of Chapter 2.7, Division 2, Title 23, California Code of Regulations, except that the evapotranspiration adjustment factor (ETAF) shall be 0.65 with an additional water allowance for special landscape areas (SLA) of 0.35. 5.410.2.2 Basis of Design (BOD). [N] A written explanation of how the design of the building systems meets **5.408.1.3 Waste stream reduction alternative.** The combined weight of new construction disposal that does **ELECTRIC VEHICLE CHARGING STATION(S) (EVCSj).** One or more spaces intended for charging electric vehicles. the OPR shall be completed at the design phase of the building project. The Basis of Design document shall not exceed two pounds per square foot of building area may be deemed to meet the 65% minimum Exception: Any project with an aggregate landscape area of 2,500 square feet or less may comply with the cover the following systems: requirement as approved by the enforcing agency. prescriptive measures contained in Appendix D of the MWELO. **ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE).** The conductors, including the ungrounded, grounded, and equipment grounding conductors and the electric vehicle connectors, attachment plugs, and all other fittings, devices, power Renewable energy systems. **5.408.1.4 Documentation.** Documentation shall be provided to the enforcing agency which demonstrates outlets, or apparatus installed specifically for the purpose of transferring energy between the premises wiring and **5.304.6.1 Newly constructed landscapes.** New construction projects with an aggregate landscape area equal to or Landscape irrigation systems. ompliance with Sections 5.408.1.1, through 5.408.1.3. The waste management plan shall be updated as greater than 500 square feet. Water reuse system. necessary and shall be accessible during construction for examination by the enforcing agency. **5.304.6.2 Rehabilitated landscapes.** Rehabilitated landscape projects with an aggregate ENERGY EQUIVALENT (NOISE) LEVEL (Leq). The level of a steady noise which would have the same energy as the .410.2.3 Commissioning plan. [N] Prior to permit issuance a commissioning plan shall be completed to fluctuating noise level integrated over the time of period of interest. landscape area equal to or greater than 1,200 square feet. bw the project will be commissioned. The commissioning plan shall include the following: 1. Sample forms found in "A Guide to the California Green Building Standards Code (Nonr **EXPRESSWAY.** An arterial highway for through traffic which may have partial control of access, but which may or located at www.bsc.ca.gov/Home/CALGreen.aspx may be used to assist in documenting compliance may not be divided or have grade separations at intersections. stems to be commissioned. Plans to test systems and components shall include: with the waste management plan. An explanation of the original design intent. 2. Mixed construction and demolition debris processors can be located at the California Department FREEWAY. A divided arterial highway with full control of access and with grade separations at intersections. It and systems to be tested, including the extent of tests. DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY of Resources Recycling and Recovery (CalRecycle). Functions to be tested. GLOBAL WARMING POTENTIAL (GWP). The radiative forcing impact of one mass—based unit of a given greenhouse gas Conditions under which the test shall be performed. **5.408.2 UNIVERSAL WASTE. [A]** Additions and alterations to a building or tenant space that meet the scoping provisions in Section 301.3 for nonresidential additions and alterations, shall require verification that Universal relative to an equivalent unit of carbon dioxide over a given period of time. Carbon dioxide is the reference Measurable criteria for acceptable performance. compound with a GWP of one. Waste items such as fluorescent lamps and ballast and mercury containing thermostats as well as other California Commissioning team information. **SECTION 5.401 GENERAL** 5. Commissioning process activities, schedules and responsibilities. Plans for the completion of prohibited Universal Waste materials are disposed of properly and are diverted from landfills. A list of prohibited GLOBAL WARMING POTENTIAL VALUE (GWP VALUE). A 100-year GWP value published by the Intergovernmental Panel on **5.401.1 SCOPE.** The provisions of this chapter shall outline means of achieving material conservation and resource Iniversal Waste materials shall be included in the construction documents. commissioning shall be included. Dimate Change (IPCC) in either its Second Assessment Report (SAR) (IPCC, 1995); or its Fourth Assessment A—3 efficiency through protection of buildings from exterior moisture, construction waste diversion, employment of Report (AR4) (IPCC, 2007). The SAR GWP values are found in column "SAR (100—yr)" of Table 2.14.; the AR4 techniques to reduce pollution through recycling of materials, and building commissioning or testing and adjusting. **5.410.2.4 Functional performance testing. [N]** Functional performance tests shall demonstrate the correct **Note**: Refer to the Universal Waste Rule link at: GWP values are found in column "100 yr" of Table 2.14. installation and operation of each component, system and system—to—system interface in accordance with http://www.dtsc.ca.gov/LawsRegsPolicies/Regs/upload/OEAR-A\_REGS\_UWR\_FinalText.pdf the approved plans and specifications. Functional performance testing reports shall contain information **SECTION 5.402 DEFINITIONS** HIGH-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that is: (a) a chlorofluorocarbon, a 5.408.3 EXCAVATED SOIL AND LAND CLEARING DEBRIS. 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material addressing each of the building components tested, the testing methods utilized, and include any readings **5.402.1 DEFINITIONS.** The following terms are defined in Chapter 2 (and are included here for reference) hdrochlorofluorocarbon, a hydrofluorocarbon, a perfluorocarbon, or any compound or blend of compounds, with a GWP value equal to or greater than 150, or (B) any ozone depleting substance as defined in Title 40 of the Code may be stockpiled on site until the storage site is developed. of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009). ADJUST. To regulate fluid flow rate and air patterns at the terminal equipment, such as to reduce fan speed or **5.410.2.5 Documentation and training. [N]** A Systems Manual and Systems Operations Training are required, **Exception:** Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation. including Occupational Safety and Health Act (OSHA) requirements in California Code of Regulations (CCR), LONG RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.5 times the pipe diameter. BALANCE. To proportion flows within the distribution system, including sub-mains, branches and terminals, Title 8, Section 5142, and other related regulations. according to design quantities. LOW-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that: (A) has a GWP value less than **5.410.2.5.1 Systems manual. [N]** Documentation of the operational aspects of the building shall be 1. If contamination by disease or pest infestation is suspected, contact the County Agricultural 50, and (B) is not an ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part **BUILDING COMMISSIONING.** A systematic quality assurance process that spans the entire design and construction completed within the systems manual and delivered to the building owner or representative. The Commissioner and follow its direction for recycling or disposal of the material. 32, sec.82.3 (as amended March 10, 2009). process, including verifying and documenting that building systems and components are planned, designed, 2. For a map of know pest and/or disease quarantine zones, consult with the California Department of Food and Agriculture. (www.cdfa.ca.gov) systems manual shall include the following: installed, tested, operated and maintained to meet the owner's project requirements. Site information, including facility description, history and current requirements. MERV. Filter minimum efficiency reporting value, based on ASHRAE 52.2-1999. Site contact information. ORGANIC WASTE. Food waste, green waste, landscape and pruning wste, nonhazardous wood waste, and food Basic operations and maintenance, including general site operating procedures, basic MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a compound to soiled paper waste that is mixed in with food waste. troubleshooting, recommended maintenance requirements, site events log. the "Base REactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundreths of a gram SECTION 5.410 BUILDING MAINTENANCE AND OPERATIONS Major systems. **TEST.** A procedure to determine quantitative performance of a system or equipment Site equipment inventory and maintenance notes. **ID OWNER** 5.410.1 RECYCLING BY OCCUPANTS. Provide readily accessible areas that serve the entire building and are identified A copy of verifications required by the enforcing agency or this code. or the depositing, storage and collection of non—hazardous materials for recycling, including (at a minimum) **PRODUCT-WEIGHTED MIR (PWMIR).** The sum of all weighted—MIR for all ingredients in a product subject to this 7. Other resources and documentation, if applicable. paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of product (excluding container and packaging). **5.410.2.5.2 Systems operations training. [N]** A program for training of the appropriate maintenance eption: Rural jurisdictions that meet and apply for the exemption in Public Resources PSIG. Pounds per square inch, quage staff for each equipment type and/or system shall be developed and documented in the de 42649.82 (a)(2)(A) et seg. shall also be exempt from the organic waste portion of this section. commissioning report and shall include the following: **REACTIVE ORGANIC COMPOUND (ROC).** Any compound that has the potential, once emitted, to contribute to ozone 1. System/equipment overview (what it is, what it does and with what other systems and/or 410.1.1 Additions. All additions conducted within a 12—month period under single or multiple permits, formation in the troposphere. esulting in an increase of 30% or more in floor area, shall provide recycling areas on site. SCHRADER ACCESS VALVES. Access fittings with a valve core installed. Review and demonstration of servicing/preventive maintenance. **Exception**: Additions within a tenant space resulting in less than a 30% increase in Review of the information in the Systems Manual. SHORT RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, the tenant space floor area. 4. Review of the record drawings on the system/equipment. with a radius 1.0 times the pipe diameter. **5.410.1.2 Sample ordinance.** Space allocation for recycling areas shall comply with Chapter 18, Part 3, Division 30 of the *Public Resources Code*. Chapter 18 is known as the California Solid Waste Reuse and **5.410.2.6 Commissioning report.** [N] A report of commissioning process activities undertaken through the SUPERMARKET. For the purposes of Section 5.508.2, a supermarket is any retail food facility with 8,000 square design and construction phases of the building project shall be completed and provided to the owner or feet or more conditioned area, and that utilizes either refrigerated display cases, or walk—in coolers or freezers Recycling Access Act of 1991 (Act). representative. connected to remote compressor units or condensing units. Note: A sample ordinance for use by local agencies may be found in Appendix A of the document at the G.C. 5.410.4 TESTING AND ADJUSTING. New buildings less than 10,000 square feet. Testing and adjusting of systems shall be **VOC.** A volatile organic compound broadly defined as a chemical compound based on carbon chains or rings with CalRecycle's web site. vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain required for new buildings less than 10,000 square feet or new systems to serve an addition or alteration subject hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a) to Section 303.1. Note: Where specific regulations are cited from different agencies such as SCAQMD, ARB, etc., the VOC definition included in that specific regulation is the one that prevails for the specific measure in question. **Note:** For energy—related systems under the scope (Section 100) of the California Energy Code, including SECTION 5.503 FIREPLACES heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting system and controls, as **5.503.1 FIREPLACES.** Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed woodstove or pellet stove, well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning and refer to residential requirements in the California Energy Code, Title 24, Part 6, Subchapter 7, Section 150. Woodstoves, pellet stoves and requirements and Sections 120.5, 120.6, 130.4, and 140.9(b)3 for additional testing requirements of specific fireplaces shall comply with applicable local ordinances. 5.503.1.1 Woodstoves. Woodstoves and pellet stoves shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits. **5.410.4.2 Systems.** Develop a written plan of procedures for testing and adjusting systems. Systems to be included for testing and adjusting shall include at a minimum, as applicable to the project: 1. Renewable energy systems. SECTION 5.504 POLLUTANT CONTROL Landscape irrigation systems. **MFCH** 5.504.1 TEMPORARY VENTILATION. The permanent HVAC system shall only be used during construction if

COLORADO RIVER STATION REMODEL

1111 BAILEY AVENUE **NEEDLES. CA. 92363** 

SAN BERNARDINO COUNTY SHERIFF'S DEPARTMENT

> WBSE #: 10.10.1220 CAFM #: NEE004 CIP #: 22-030

palm desert, ca 92260

marks

architects

73121 fred waring drive

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necessary to condition the building or areas of addition or alteration within the required temperature range for naterial and equipment installation. If the HVAC system is used during construction, use return air filters with a Minimum Efficiency Reporting Value (MERV) of 8, based on ASHRAE 52.2—1999, or an average efficiency of

5.504.3 Covering of duct openings and protection of mechanical equipment during construction. At the time of rough installation

and during storage on the construction site until final startup of the heating, cooling and ventilation equipment,

all duct and other related air distribution component openings shall be covered with tape, plastic, sheetmetal or

other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may

30% based on ASHRAE 52.1—1992 Replace all filters immediately prior to occupancy, or, if the building is

occupied during alteration, at the conclusion of construction.

enter the system.

CALGREEN CHECKLIST

**5.410.4.3 Procedures.** Perform testing and adjusting procedures in accordance with manufacturer's

Balance Council National Standards or as approved by the enforcing agency.

5.410.4.3.1 HVAC balancing. In addition to testing and adjusting, before a new space-conditioning

system serving a building or space is operated for normal use, the system shall be balanced in

accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National

Standards; the National Environmental Balancing Bureau Procedural Standards; Associated Air

Water reuse systems.

specifications and applicable standards on each system.

## 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 3 (January 2020, Includes August 2019 Supplement)

product, less packaging, which do not weigh more	, and sealant or caulking compounds (ir than one pound and do not consist of	mor
fluid ounces) shall comply with statewide VOC starns on use of certain toxic compounds, of <i>California</i>	ndards and other requirements, including A Code of Regulations, Title 17, commencing	
ion 94507.		
TABLE 5.504.4.1 — ADHESIVE VOC LIN	MIT <sub>1,2</sub>	
Less Water and Less Exempt Compounds in Gram	s per Liter	
ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT	
INDOOR CARPET ADHESIVES	50	
CARPET PAD ADHESIVES	50	
OUTDOOR CARPET ADHESIVES	150	
WOOD FLOORING ADHESIVES	100	
RUBBER FLOOR ADHESIVES	60	
SUBFLOOR ADHESIVES	50	
CERAMIC TILE ADHESIVES	65	
VCT & ASPHALT TILE ADHESIVES	50	
DRYWALL & PANEL ADHESIVES	50	
COVE BASE ADHESIVES	50	
MULTIPURPOSE CONSTRUCTION ADHESIVES	70	
STRUCTURAL GLAZING ADHESIVES	100	
SINGLE-PLY ROOF MEMBRANE ADHESIVES	250	
OTHER ADHESIVES NOT SPECIFICALLY LISTED	50	
SPECIALTY APPLICATIONS		
PVC WELDING	510	
CPVC WELDING	490	
ABS WELDING	325	
PLASTIC CEMENT WELDING	250	
ADHESIVE PRIMER FOR PLASTIC	550	
CONTACT ADHESIVE	80	
SPECIAL PURPOSE CONTACT ADHESIVE	250	
	<u> </u>	

**5.504.4 FINISH MATERIAL POLLUTANT CONTROL.** Finish materials shall comply with Sections 5.504.4.1 through

applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such

the requirements of the following standards:

**5.504.4.1 Adhesives, sealants and caulks.** Adhesives, sealants, and caulks used on the project shall meet

1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where

1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.

250

STRUCTURAL WOOD MEMBER ADHESIVE

SUBSTRATE SPECIFIC APPLICATIONS

POROUS MATERIAL (EXCEPT WOOD)

TOP & TRIM ADHESIVE

METAL TO METAL

PLASTIC FOAMS

FIBERGLASS

2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168, www.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF

	0 131
Less Water and Less Exempt Compounds in	Grams per Liter
SEALANTS	CURRENT VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	
ARCHITECTURAL	
NONPOROUS	250
POROUS	775
MODIFIED BITUMINOUS	500
MARINE DECK	760
OTHER	750

CONTENT SPECIFIED IN THESE TABLES, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.

**5.504.4.3 Paints and coatings.** Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 5.504.4.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat—High Gloss coating, based on its gloss, as defined in Subsections 4.21, 4.36 and 4.37 of the 2007 California Air Resources Board Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat—High Gloss VOC limit in Table 5.504.4.3 shall apply.

5.504.4.3.1 Aerosol Paints and coatings. Aerosol paints and coatings shall meet the PWMIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(c)(2) and (d)(2) of California Code of Regulations, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8 Rule 49.

GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT COMI	POUNDS
COATING CATEGORY	CURRENT VOC LIMIT
FLAT COATINGS	50
NONFLAT COATINGS	100
NONFLAT HIGH GLOSS COATINGS	150
SPECIALTY COATINGS	
ALUMINUM ROOF COATINGS	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF PRIMERS	350
BOND BREAKERS	350
CONCRETE CURING COMPOUNDS	350
CONCRETE/MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
FAUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH-TEMPERATURE COATINGS	420
INDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS1	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, & UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLACS:	
CLEAR	730
OPAQUE	550
SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	100
STAINS	250
STONE CONSOLIDANTS	450
SWIMMING POOL COATINGS	340
TRAFFIC MARKING COATINGS	100
TUB & TILE REFINISH COATINGS	420
WATERPROOFING MEMBRANES	250
WOOD COATINGS	275
WOOD PRESERVATIVES	350
ZINC-RICH PRIMERS	340

2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE. 3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR

Manufacturer's product specification

ARCH

5.504.4.3.2 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following:

2. Field verification of on-site product containers 5.504.4.4 Carpet Systems. All carpet installed in the building interior shall meet at least one of the testing and

product requirements: rpet and Rug Institute's Green Label Plus Program. Compliant with the VOC-emission limits and testing requirements specified in the California epartment of Public Health Standard Method for the Testing and Evaluation of Volatile Organic nemical Emissions from Indoor Sources Using Environmental Chambers, Version 1.1, February 010 (also known as CDPH Standard Method V1.1 or Specification 01350).

NSF/ANSI 140 at the Gold level or higher; Scientific Certifications Systems Sustainable Choice; or Compliant with the Collaborative for High Performance Schools California (2014 CA—CHPS) Criteria listed in the CHPS High Performance Product Database.

**5.504.4.4.1 Carpet cushion.** All carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute Green Label program.

**5.504.4.4.2 Carpet adhesive.** All carpet adhesive shall meet the requirements of Table 5.504.4.1. **5.504.4.5 Composite wood products.** Hardwood plywood, particleboard and medium density fiberboard omposite wood products used on the interior or exterior of the buildings shall meet the requirements for rmaldehyde as specified in ARB's Air Toxics Control Measure (ATCM) for Composite Wood (17 CCR 93120

Those materials not exempted under the ATCM must meet the specified emission limits, as shown

**5.504.4.5.3 Documentation.** Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:

certifications and specifications.

Chain of custody certifications. Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seg.). 4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269 or European 6363S standards. 5. Other methods acceptable to the enforcing agency.

TABLE 5.504.4.5 - FORMALDEHYDE LIMITS MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION **CURRENT LIMIT** HARDWOOD PLYWOOD VENEER CORE 0.05 HARDWOOD PLYWOOD COMPOSITE CORE 0.05 0.09 PARTICLE BOARD MEDIUM DENSITY FIBERBOARD 0.11 THIN MEDIUM DENSITY FIBERBOARD2

1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD. AIR 1 CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR ADDITIONAL INFORMATION SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12.

2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16 INCHES (8 MM).

and listed in the CHPS High Performance

5.504.4.6 Resilient flooring systems. For 80 percent of floor area receiving resilient flooring, installed resilient flooring shall meet at least one of the following:

Certified under the Resilient Floor Covering Institute (RFCI) FloorScore program; Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health's 2010 Standard Method for the Testing and Evaluation Chambers, Version 1.1, February 2010; Compliant with the Collaborative for Hic

4. Products certified under UL GREENG UARD Gold (formerly the Greenquard Children's & Schools

**5.504.4.6.1 Verification of compliance.** Documentation shall be provided verifying that resilient flooring

materials meet the pollutant emission filtration media for outside and return air that provides at least a Minimum Efficiency Reporting

(MERV) of 13. MERV 13 filters shall be installed prior to occupancy, and recommendations for maintenan with filters of the same value shall be included in the operation and maint **Exceptions:** Existing mechanical equipment

5.504.5.3.1 Labeling. Installed filters shall be clearly labeled by the manufacturer indicating the MERV

ARCH 5.504.7 ENVIRONMENTAL TOBACCO SMOKE (ETS) CONTROL. Where outdoor areas are provided for smoking, prohibit of building entries, outdoor air intakes and operable windows and within the building as prohibited by other laws or regulations; or as enforced by ordinances, regulations or policies of any city, city and county, California Community College, campus of the California State University, or campus of the ty of California, whichever are more stringent. When ordinances, regulations or policies are not in place, signage to inform building occupants of the prohibitions.

SECTION 5.505 INDOOR MOISTURE CONTROL 5.505.1 INDOOR MOISTURE CONTROL. Buildings shall meet or exceed the provisions of California Building Code, CCR, Title 24, Part 2, Sections 1202 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures, see Section of this code.

**ECTION 5.506 INDOOR AIR QUALITY** 

5.506.1 OUTSIDE AIR DELIVERY. For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 120.1 (Requirements For Ventilation) of the California Energy Code, or the applicable local code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8. ■ MECH

5.506.2 CARBON DIOXIDE (CO₂) MONITORING. For buildings or additions equipped with demand control ventilation, CO₂ sensors and ventilation controls shall be specified and installed in accordance with the requirements of the

California Energy Code, Section 120(c)(4). SECTION 5,507 ENVIRONMENTAL COMFORT **5.507.4 ACOUSTICAL CONTROL.** Employ building assemblies and components with Sound Transmission Class (STC)

values determined in accordance with ASTM E 90 and ASTM E 413, or Outdoor—Indoor Sound Transmission Class OITC) determined in accordance with ASTM E 1332, using either the prescriptive or performance method in Section

**Exception:** Buildings with few or no occupants or where occupants are not likely to be affected by exterior noise, as determined by the enforcement authority, such as factories, stadiums, storage, enclosed parking structures and utility buildings. **Exception:** [DSA-SS] For public schools and community colleges, the requirements of this section and all

**5.507.4.1 Exterior noise transmission, prescriptive method.** Wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall meet a composite STC rating of at least 50 or a composite OITC rating of no less than 40, with exterior windows of a minimum STC of 40 or OITC of 30 in the following locations:

1. Within the 65 CNEL noise contour of an airport.

subsections apply only to new construction.

■ MECH SECTION 5.508 OUTDOOR AIR QUALITY

1. Lan or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICUZ) plan. 2. La or CNEL for other airports and heliports for which a land use plan has not been developed shall be determined by the local general plan noise element.

2. Within the 65 CNEL or Lan noise contour of a freeway or expressway, railroad, industrial source or fixed—quideway source as determined by the Noise Element of the General Plan.

**5.507.4.1.1.** Noise exposure where noise contours are not readily available. Buildings exposed to a noise level of 5.50/.4.1.1. Noise exposure where noise contours are not readily available. Buildings exposed to a noise level of 65 dB L<sub>eq</sub> - 1-hr during any hour of operation shall have building, addition or alteration exterior wall and roof—ceiling assemblies exposed to the noise source meeting a composite STC rating of at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30).

**5.507.4.2 Performance Method.** For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and roof—ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (Leq—1Hr) of 50 dBA in occupied areas during any hour of

**5.507.4.2.1 Site Features.** Exterior features such as sound walls or earth berms may be utilized as appropriate to the building, addition or alteration project to mitigate sound migration to the interior. **5.507.4.2.2 Documentation of Compliance.** An acoustical analysis documenting complying interior

sound levels shall be prepared by personnel approved by the architect or engineer of record. **5.507.4.3 Interior sound transmission.** Wall and floor—ceiling assemblies separating tenant spaces and tenant spaces and public places shall have an STC of at least 40.

Note: Examples of assemblies and their various STC ratings may be found at the California Office of Noise Control: www.toolbase.org/PDF/CaseStudies/stc\_icc\_ratings.pdf.

5.508.1 Ozone depletion and greenhouse gas reductions. Installations of HVAC, refrigeration and fire suppression equipment shall comply with **5.508.1.1 Chlorofluorocarbons (CFCs).** Install HVAC, refrigeration and fire suppression equipment that do not contain CFCs.

**5.508.1.2 Halons.** Install HVAC, refrigeration and fire suppression equipment that do not contain Halons. **5.508.2 Supermarket refrigerant leak reduction.** New commercial refrigeration systems shall comply with the provisions of

this section when installed in retail food stores 8,000 square feet or more conditioned area, and that utilize either refrigerated display cases, or walk—in coolers or freezers connected to remote compressor units or condensing units. The leak reduction measures apply to refrigeration systems containing high—global—warming potential (high-GWP) refrigerants with a GWP of 150 or greater. New refrigeration systems include both new facilities and the replacement of existing refrigeration systems in existing facilities.

**Exception:** Refrigeration systems containing low-global warming potential (low-GWP) refrigerant with a GWP value less than 150 are not subject to this section. Low-GWP refrigerants are nonozone-depleting refrigerants that include ammonia, carbon dioxide  $(CO_2)$ , and potentially other refrigerants.

**5.508.2.1 Refrigerant piping.** Piping compliant with the California Mechanical Code shall be installed to be accessible for leak protection and repairs. Piping runs using threaded pipe, copper tubing with an outside diameter (OD) less than 1/4 inch, flared tubing connections and short radius elbows shall not be used in refrigerant systems except as noted below

**5.508.2.1.1 Threaded pipe.** Threaded connections are permitted at the compressor rack.

5.508.2.1.2 Copper pipe. Copper tubing with an OD less than 1/4 inch may be used in systems with a refrigerant charge of 5

5.508.2.1.2.1 Anchorage. One-fouth-inch OD tubing shall be securely clamped to a rigid base to keep vibration levels below 8 mils. 5.508.2.1.3 Flared tubing connections. Double-flared tubing connections may be used for pressure controls,

Exception: Single-flared tubing connections may be used with a multiring seal coated with industrial sealant suitable for use with refrigerants and tightened in accordance with manufacturer's recommendations.

**5.508.2.1.4 Elbows.** Short radius elbows are only permitted where space limitations prohibit use of long radius elbows.

5.508.2.2 Valves Valves and fittings shall comply with the California Mechanical Code and as follows 5.508.2.2.1 Pressure relief valves. For vessels containing high-GWP refrigerant, a rupture disc shall be installed between the

.508.2.2.1.1 Pressure detection. A pressure gauge, pressure transducer or other device shall be installed in the space between

ne rupture disc and the relief valve inlet to indicate a disc rupture or discharge of the relief valve.

5.508.2.2.2 Access valves. Only Schrader access valves with a brass or steel body are permitted for use. 5.508.2.2.2.1 Valve caps. For systems with a refrigerant charge of 5 pounds or more, valve caps shall be brass or steel and not

**5.508.2.2.2.2 Seal caps.** If designed for it, the cap shall have a neoprene O-ring in place.

**5.508.2.2.2.2.1 Chain tethers.** Chain tethers to fit ovr the stem are required for valves designed to have seal caps. **Exception:** Valves with seal caps that are not removed from the valve during stem operation

**5.508.2.3 Refrigerated service cases.** Refrigerated service cases holding food products containing vinegar and salt shall have evaporator coils of corrosion-resistant material, such as stainless steel; or be coated to prevent corrosion from these substances.

**5.508.2.3.1 Coil coating.** Consideration shall be given to the heat transfer efficiency of coil coating to maximize energy efficiency. **5.508.2.4 Refrigerant receivers.** Refrigerant receivers with capacities greater than 200 pounds shall be fitted with a device that indicates the level of refrigerant in the receiver.

5.508.2.5 Pressure testing. The system shall be pressure tested during installation prior to evacuation and charging.

**5.508.2.5.1 Minimum pressure.** The system shall be charged with regulated dry nitrogen and appropriate tracer gas to bring system pressure up to 300 psig. minimum.

**5.508.2.5.2 Leaks.** Check the system for leaks, repair any leaks, and retest for pressure using the same gauge. 5.508.2.5.3 Allowable pressure change. The system shall stand, unaltered, for 24 hours with no more than a +/- one pound pressure change from 300 psig, measured with the same gauge.

**5.508.2.6 Evacuation.** The system shall be evacuated after pressure testing and prior to charging.

5.508.2.6.1 First vacuum. Pull a system vacuum down to at least 1000 microns (+/- 50 microns), and hold for 30 minutes.

5.508.2.6.2 Second vacuum. Pull a second system vacuum to a minimum of 500 microns and hold for 30 minutes. **5.508.2.6.3 Third vacuum.** Pull a third vacuum down to a minimum of 300 microns, and hold for 24 hours with a maximum drift of

**INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS** 702 QUALIFICATIONS

G.C. 702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper installation of HVAC systems ncluding ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC nstallations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following:

> 1. State certified apprenticeship programs. 2. Public utility training programs.

3. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations. 4. Programs sponsored by manufacturing organizations.

5. Other programs acceptable to the enforcing agency.

owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector:

1. Certification by a national or regional green building program or standard publisher. 2. Certification by a statewide energy consulting or verification organization, such as HERS raters, building contractors, and home energy auditors.

3. Successful completion of a third party apprentice training program in the appropriate trade. 4. Other programs acceptable to the enforcing agency.

1. Special inspectors shall be independent entities with no financial interest in the materials or the they are inspecting for compliance with this code. 2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate California according to the Home Energy Rating System (HERS).

[BSC-CG] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency.

**Note:** Special inspectors shall be independent entities with no financial interest in the materials or the project they are nspecting for compliance with this code.

**703 VERIFICATIONS** 

703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist.

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COLORADO RIVER STATION

REMODEL

1111 BAILEY AVENUE NEEDLES, CA. 92363

SAN BERNARDINO COUNTY

SHERIFF'S DEPARTMENT

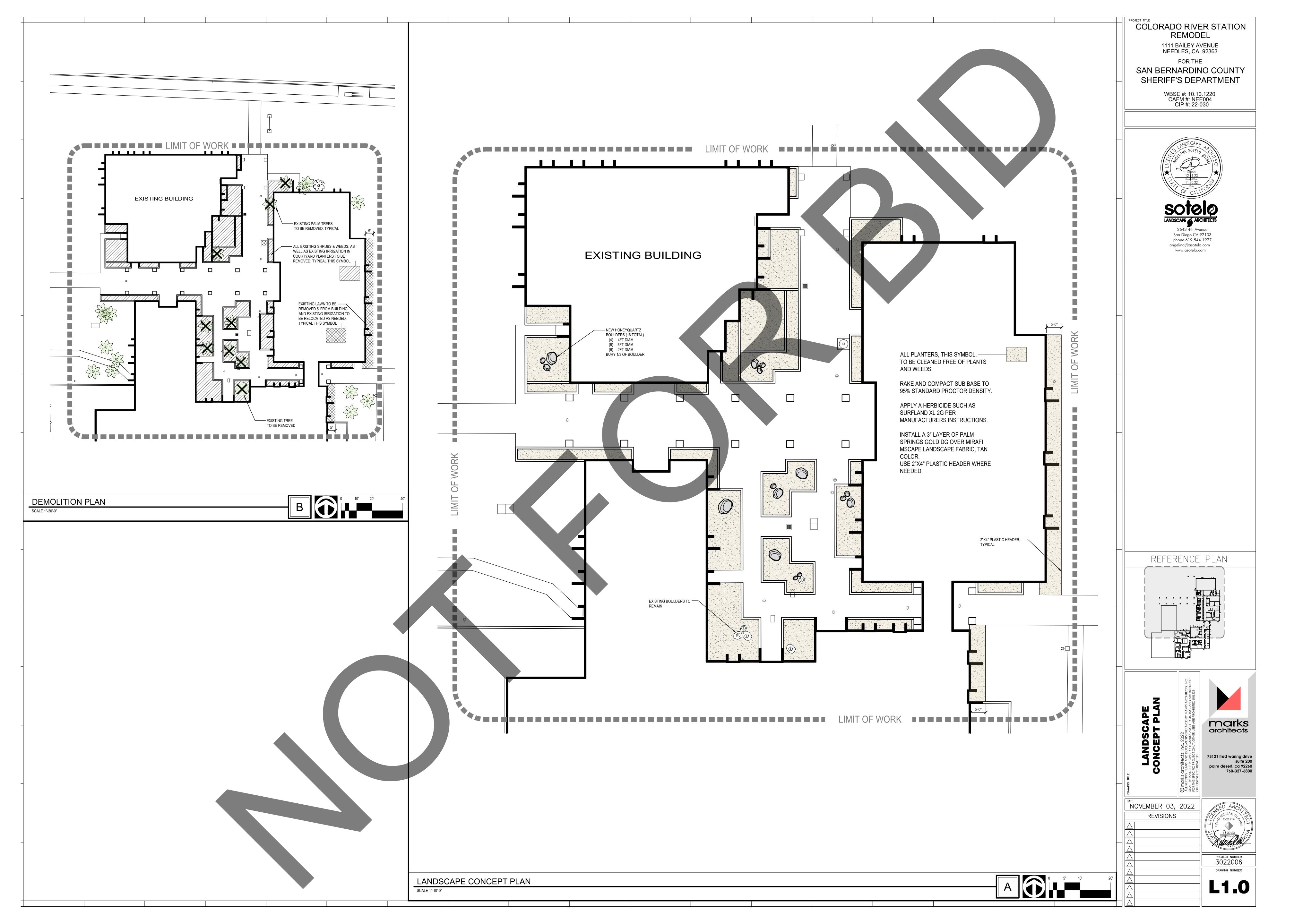
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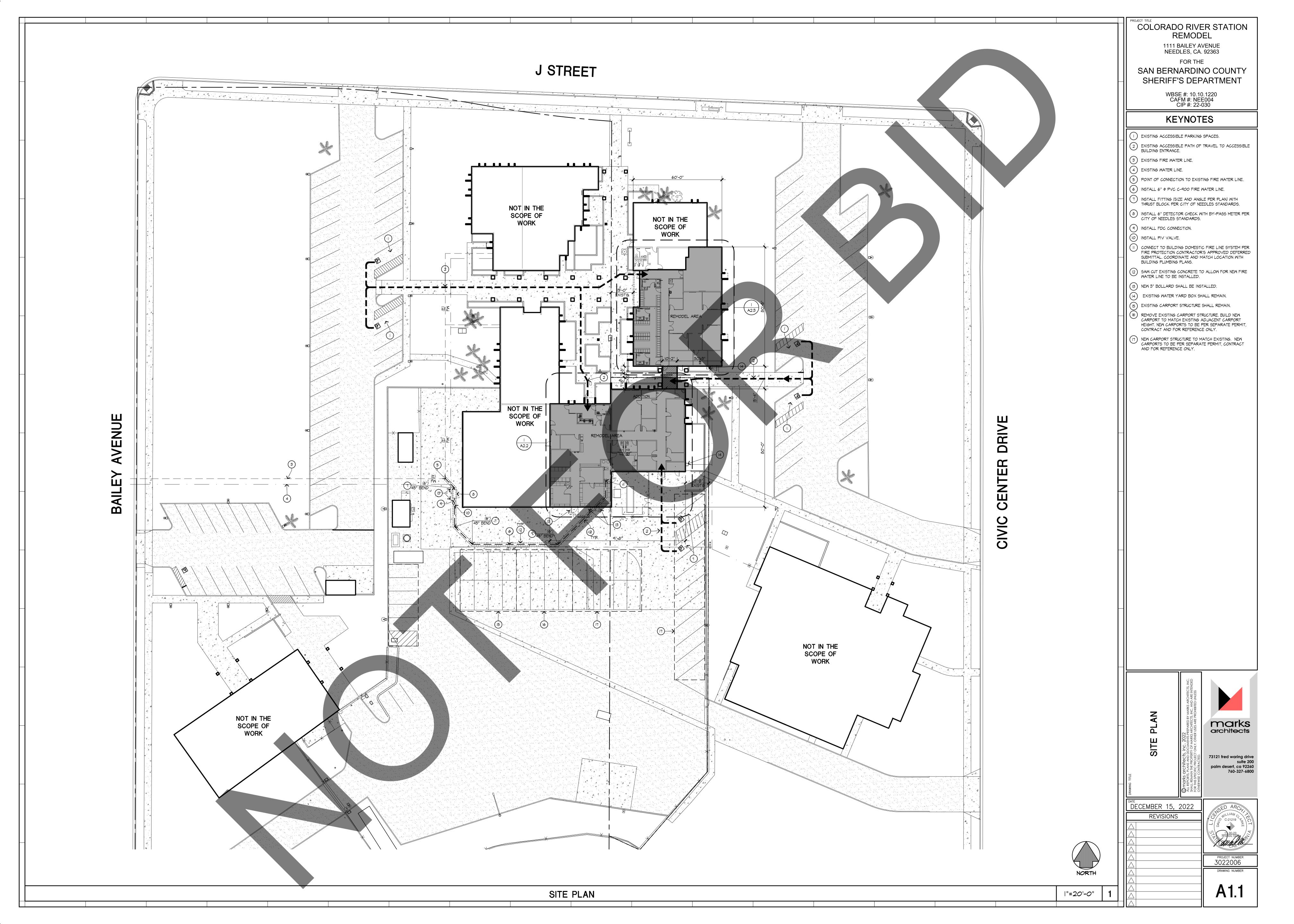
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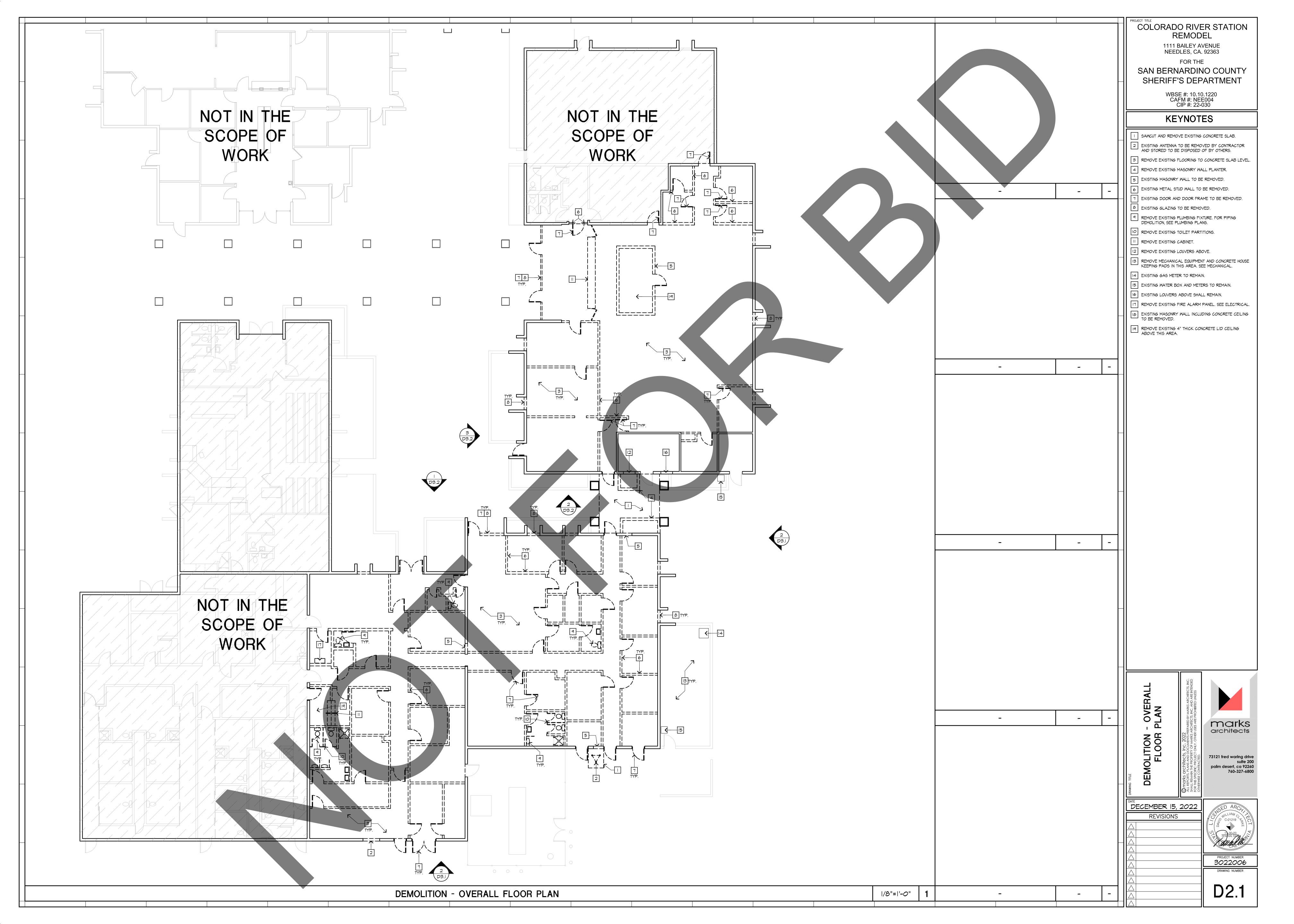
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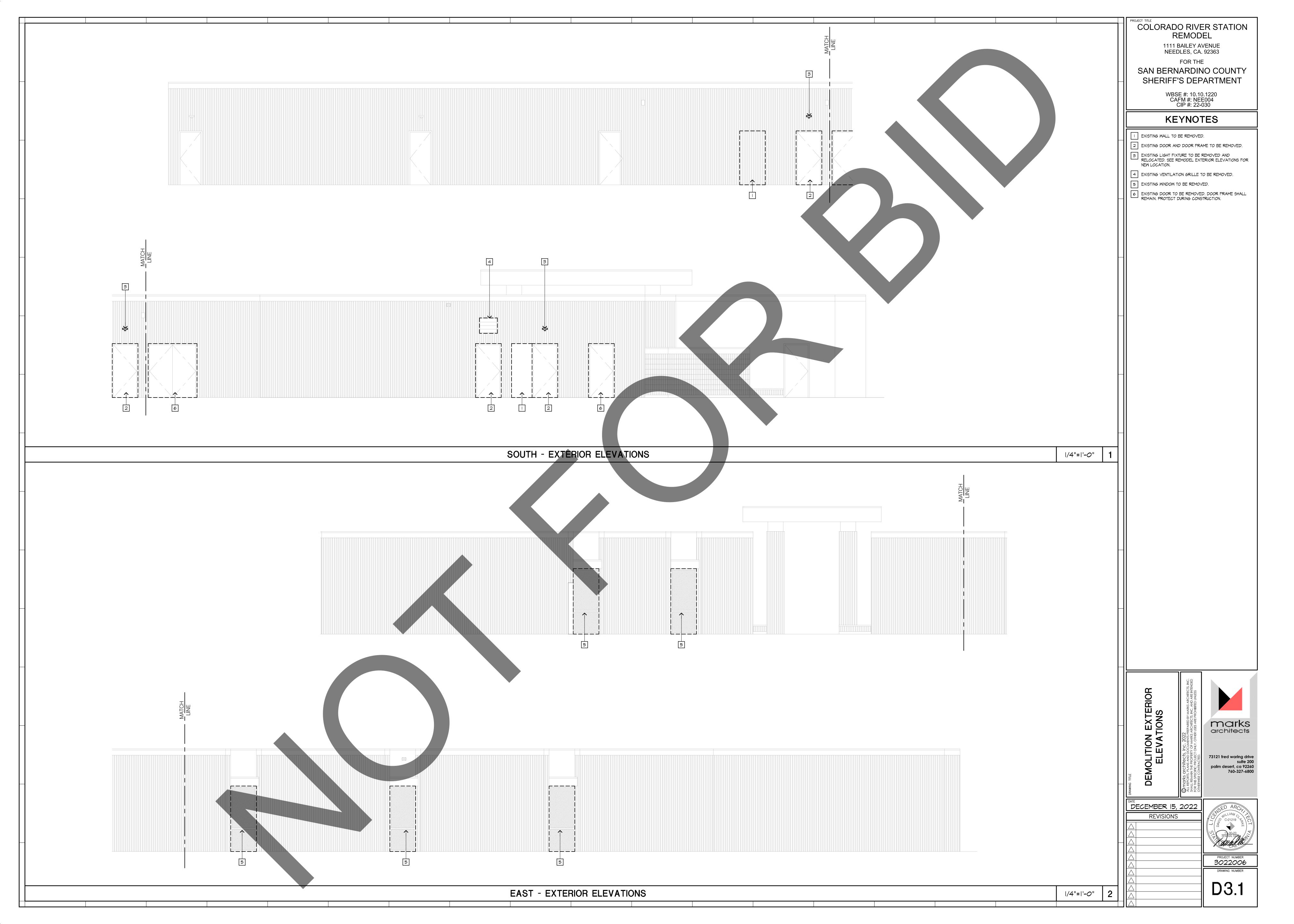
CALGREEN CHECKLIST

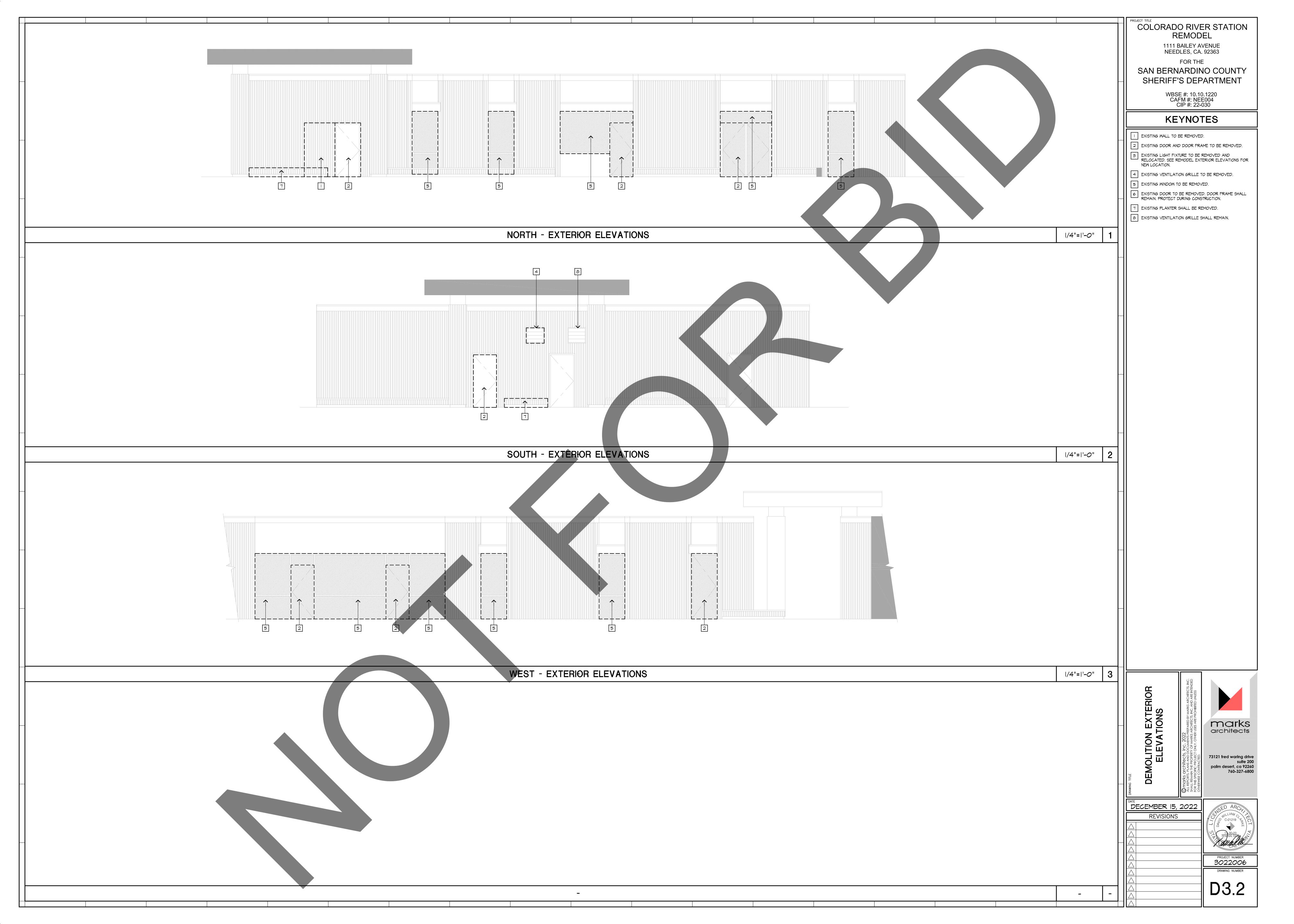


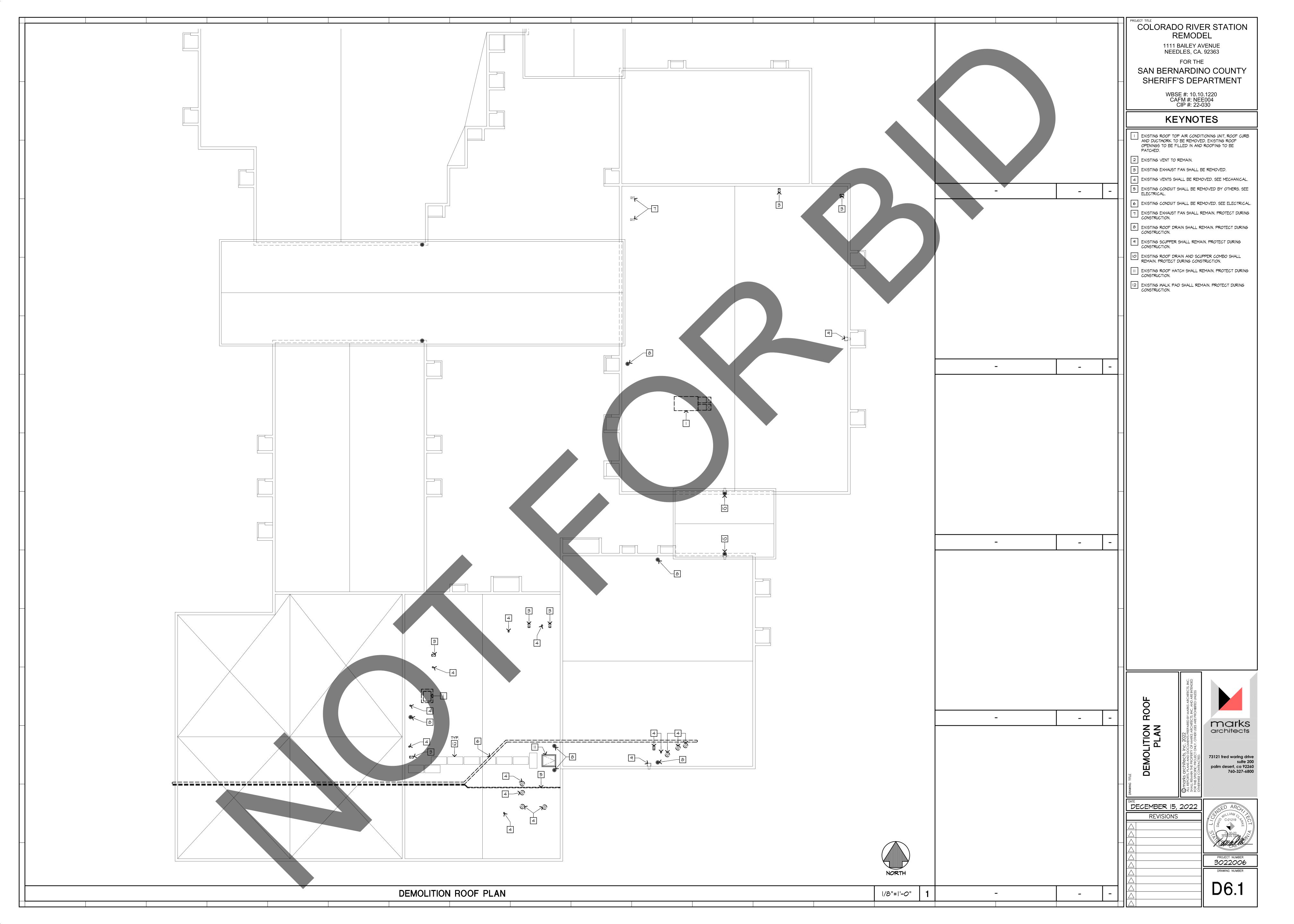


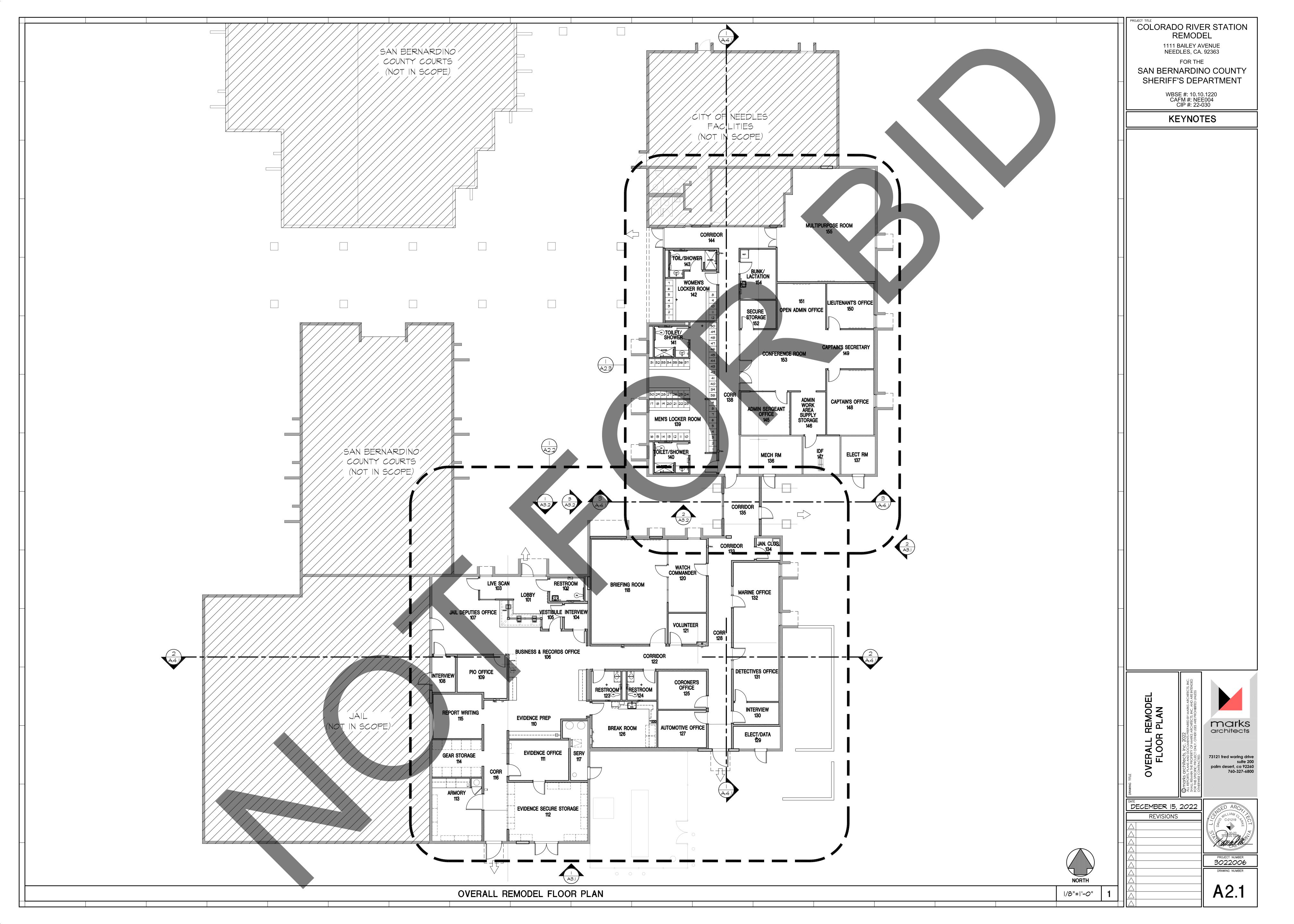


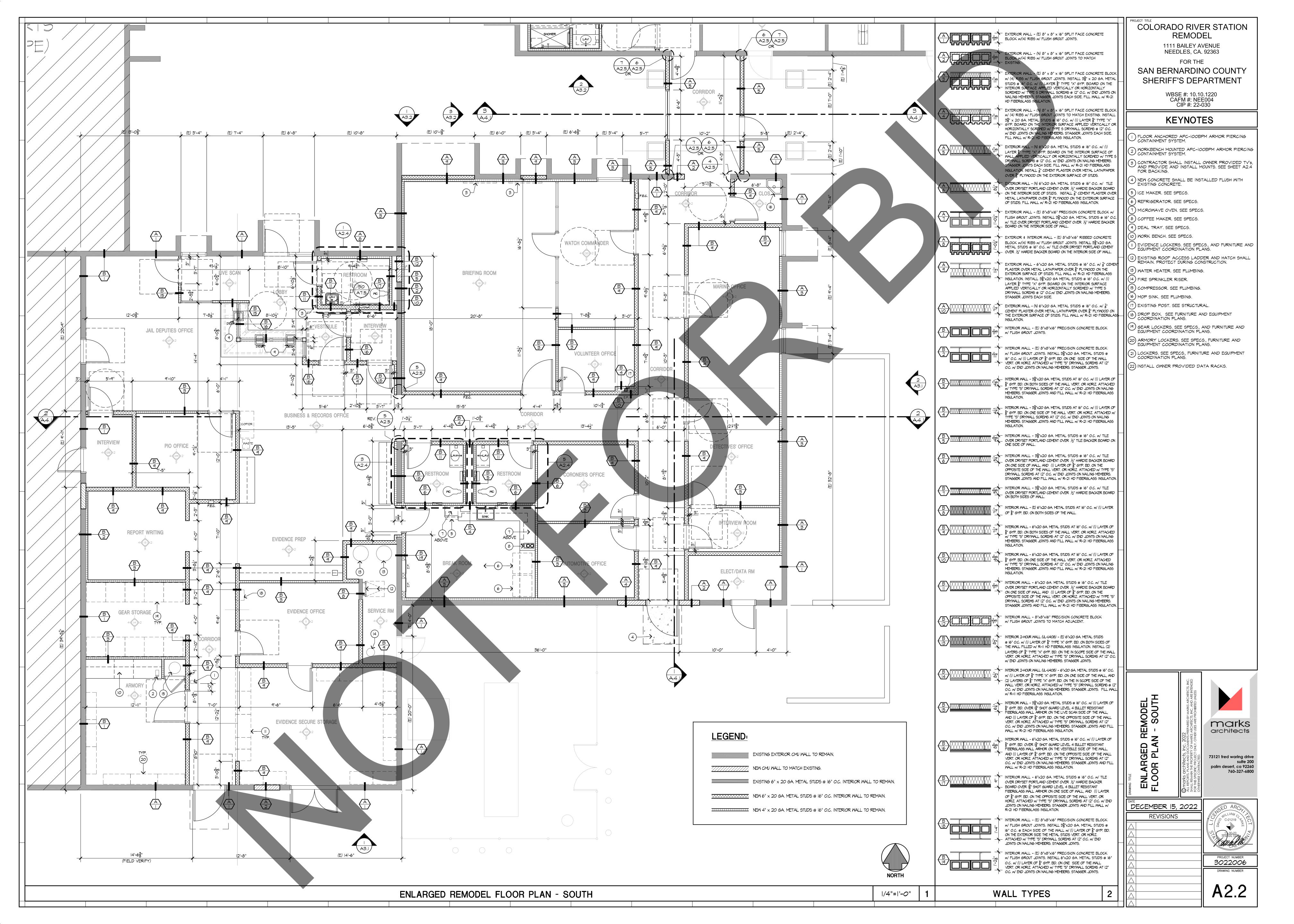


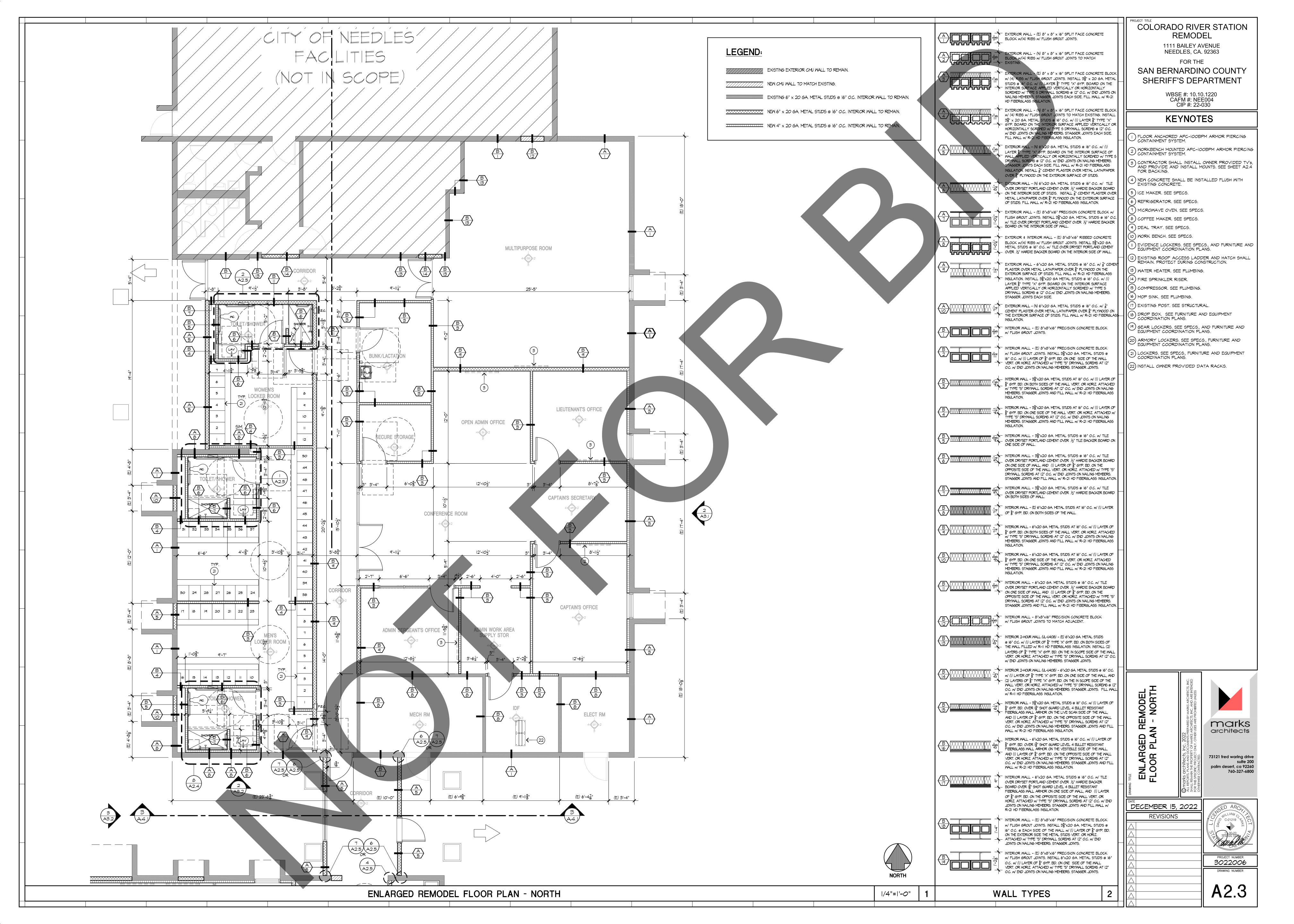


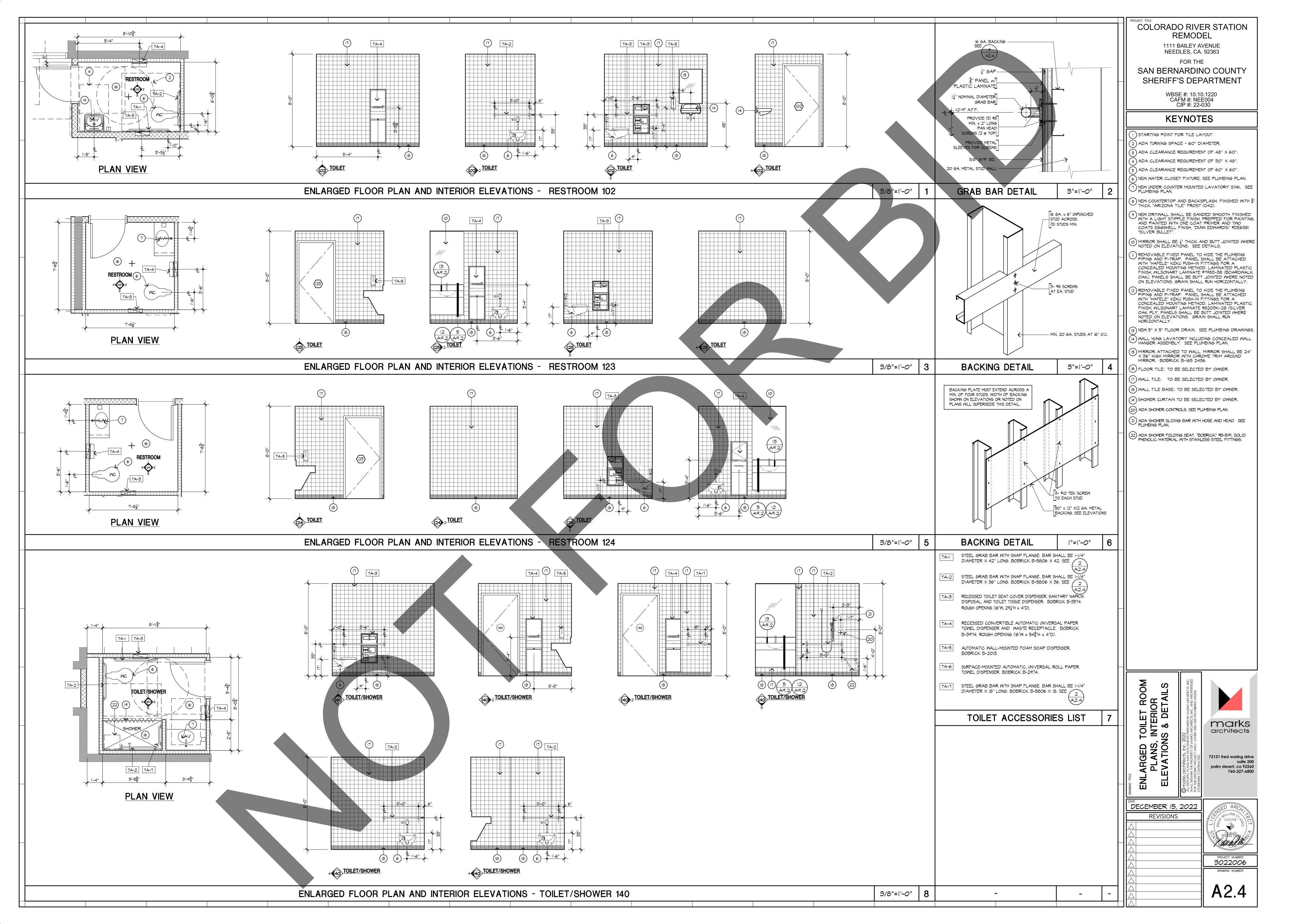


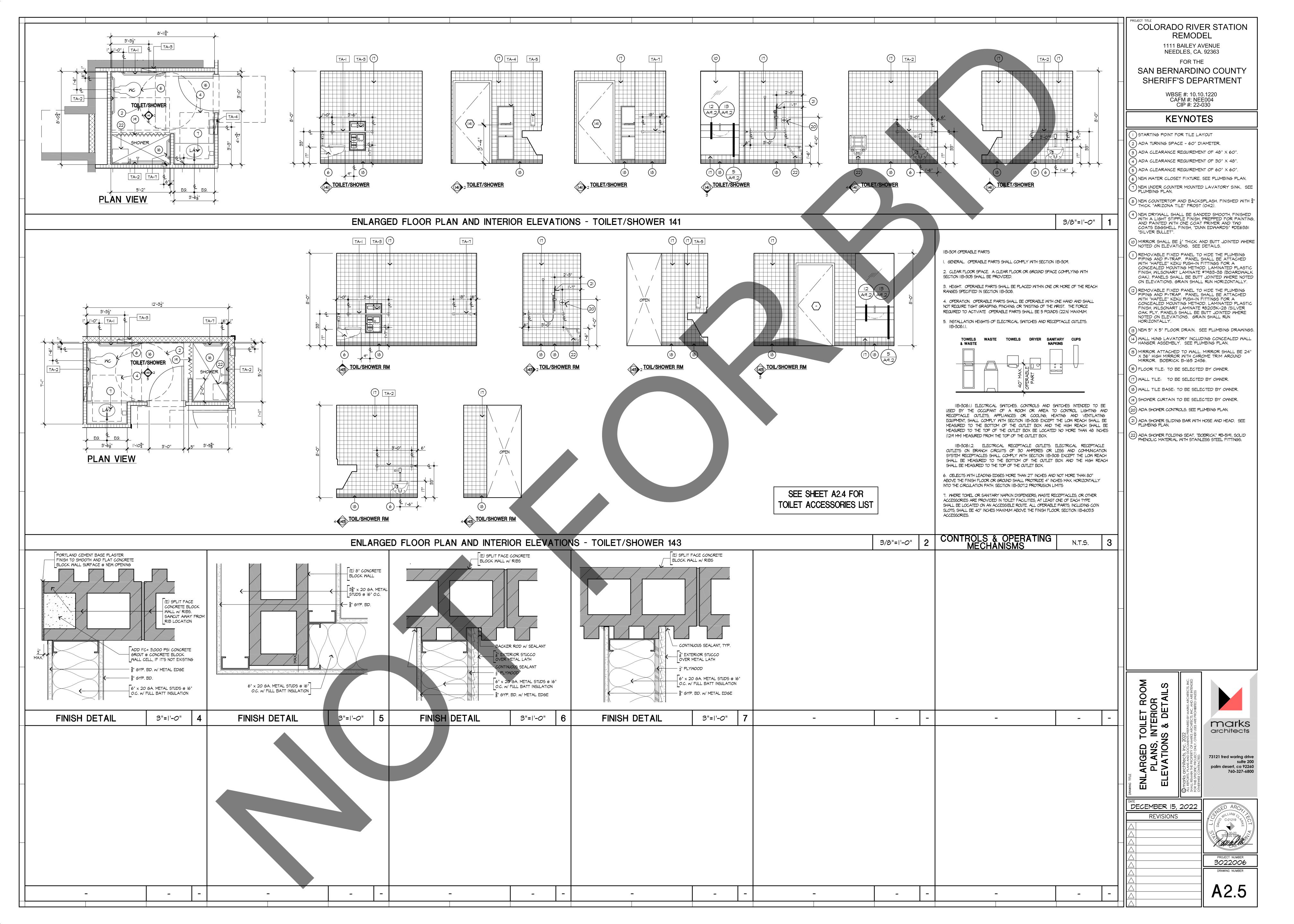




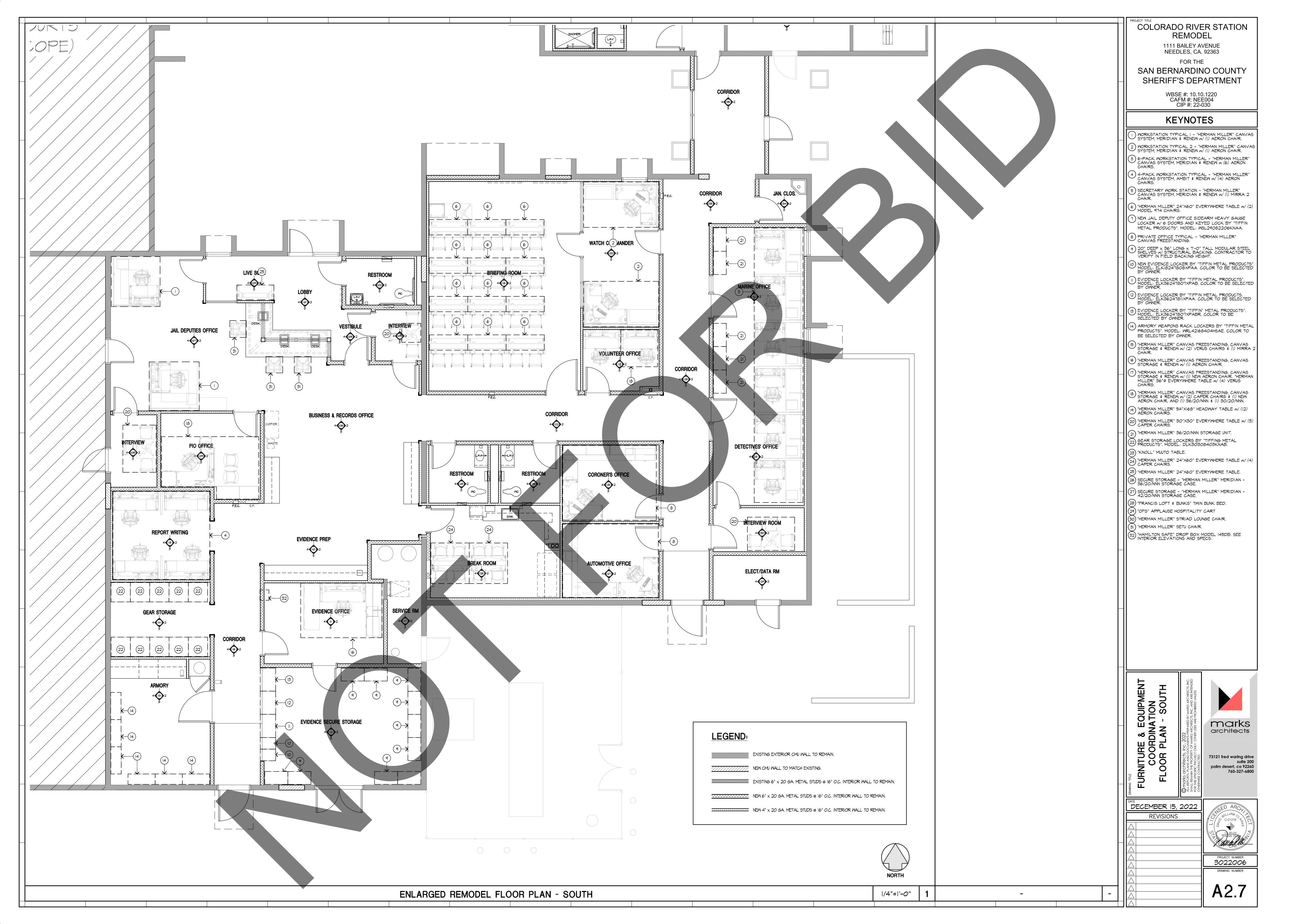


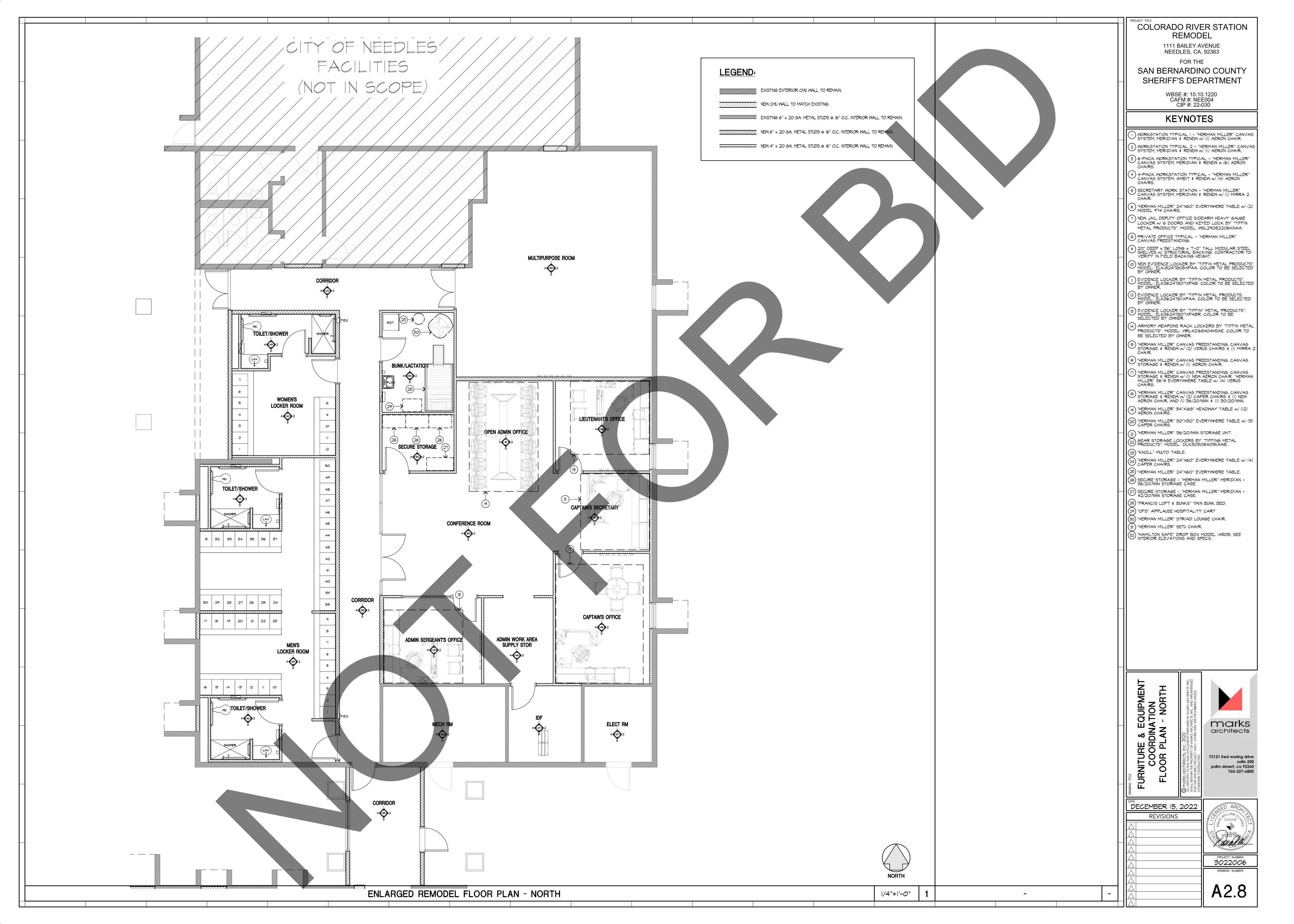




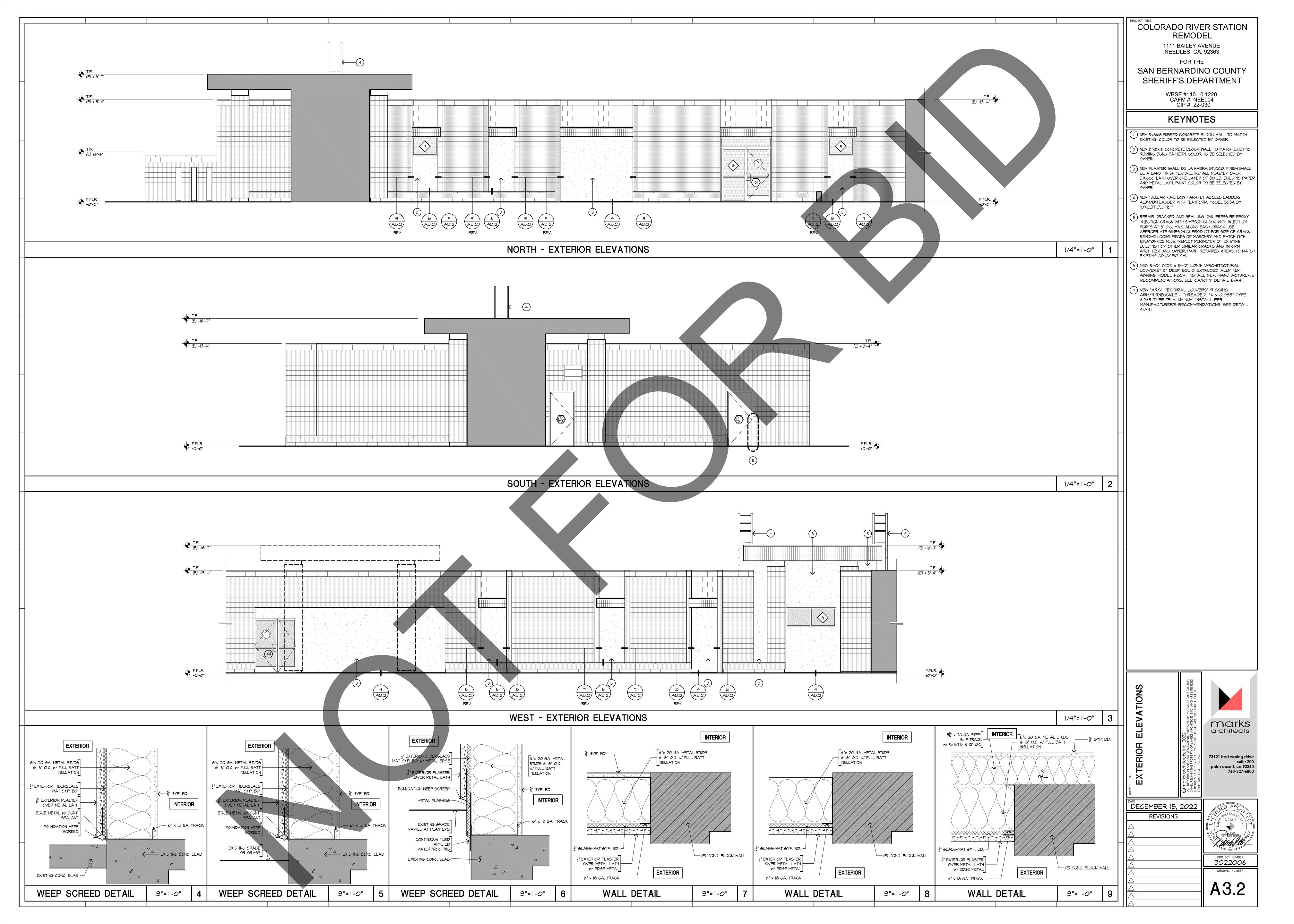


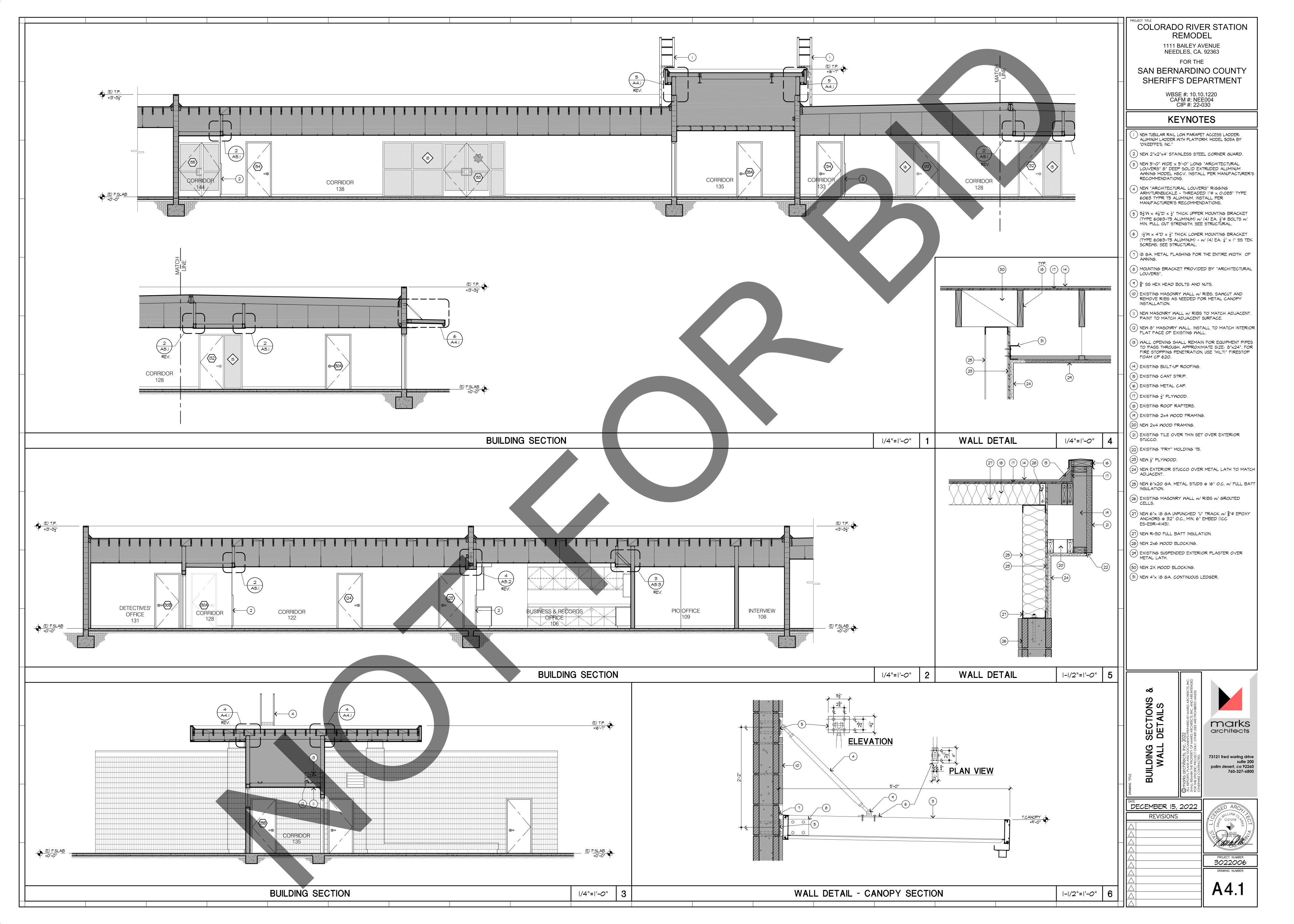


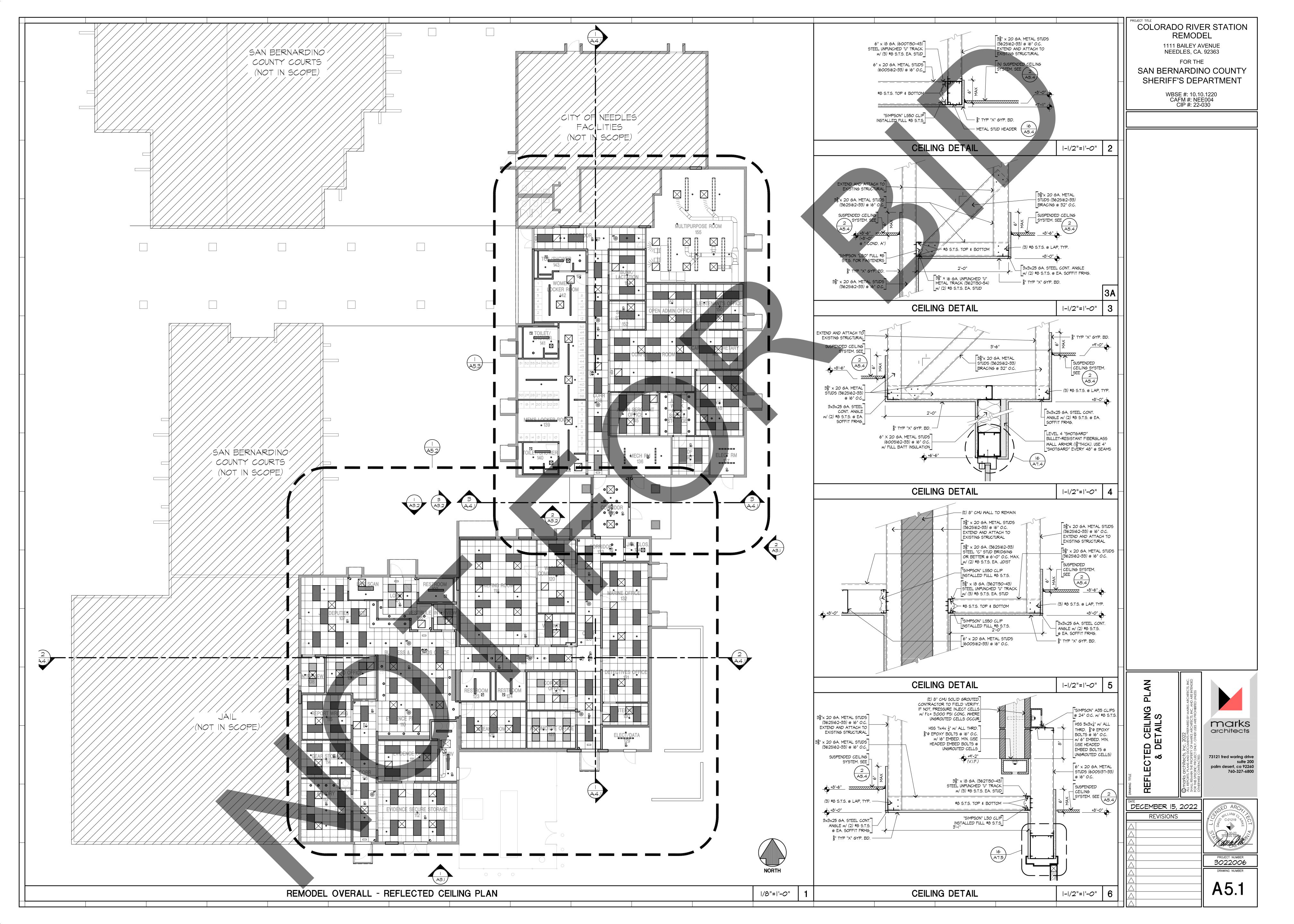


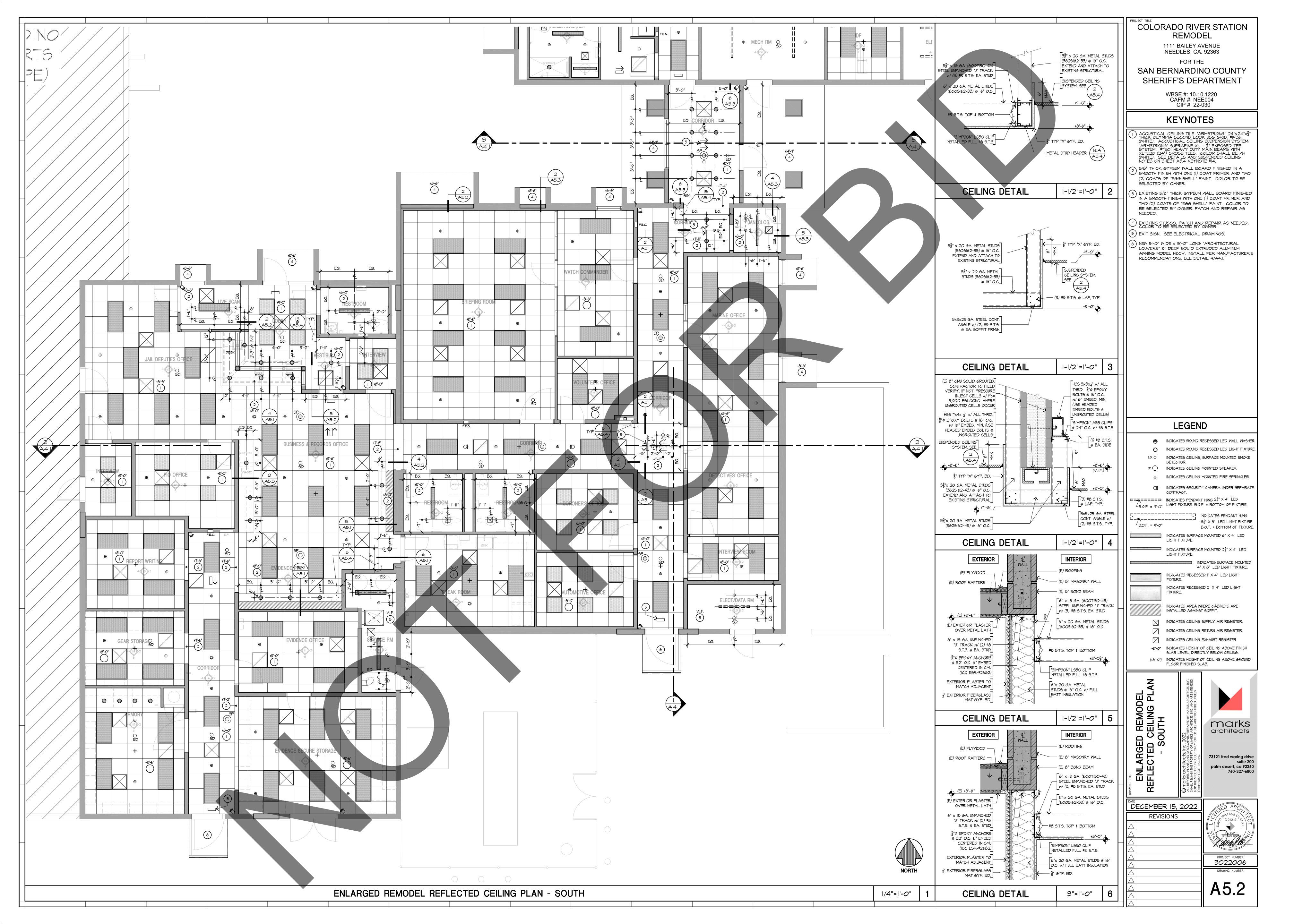


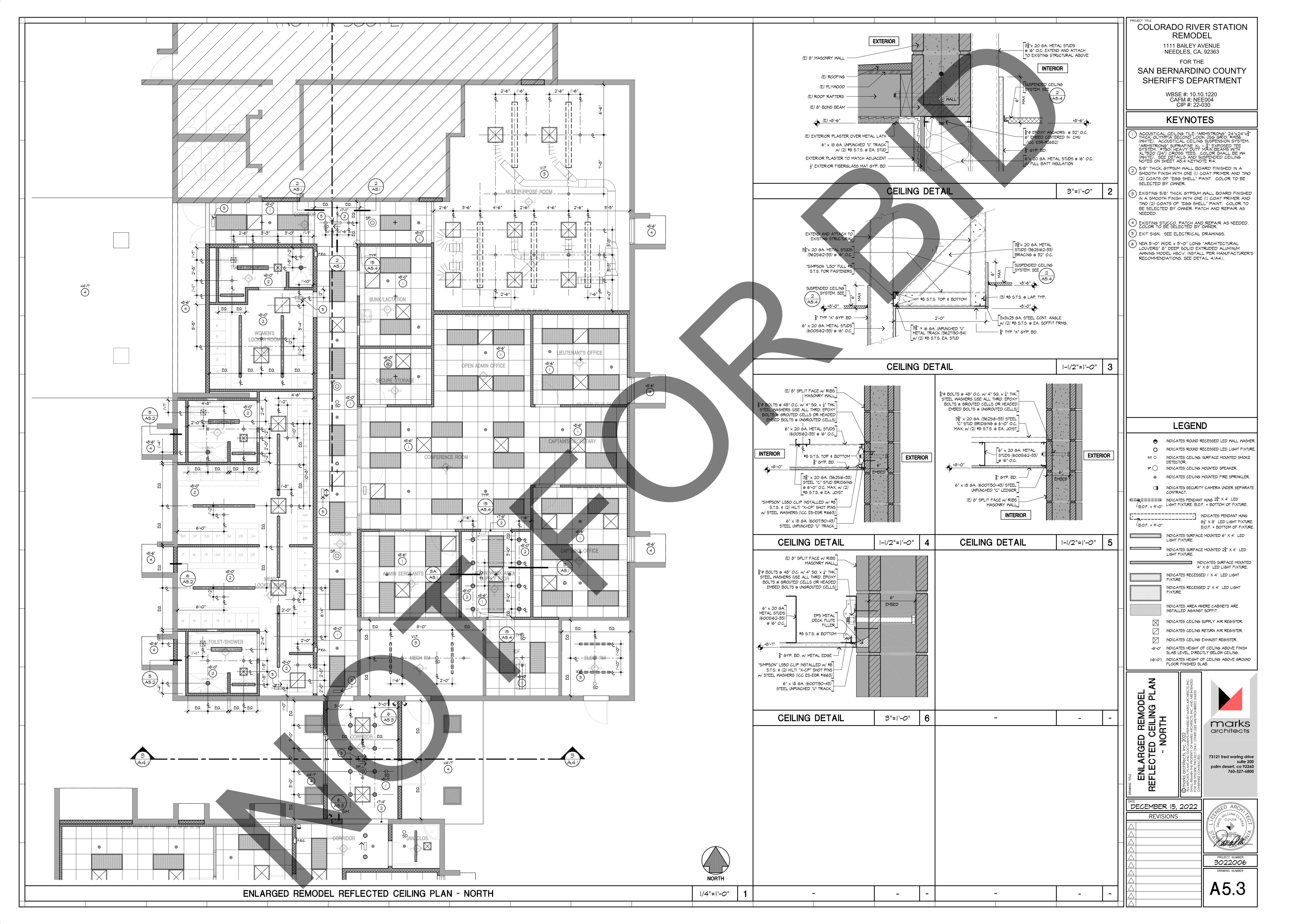


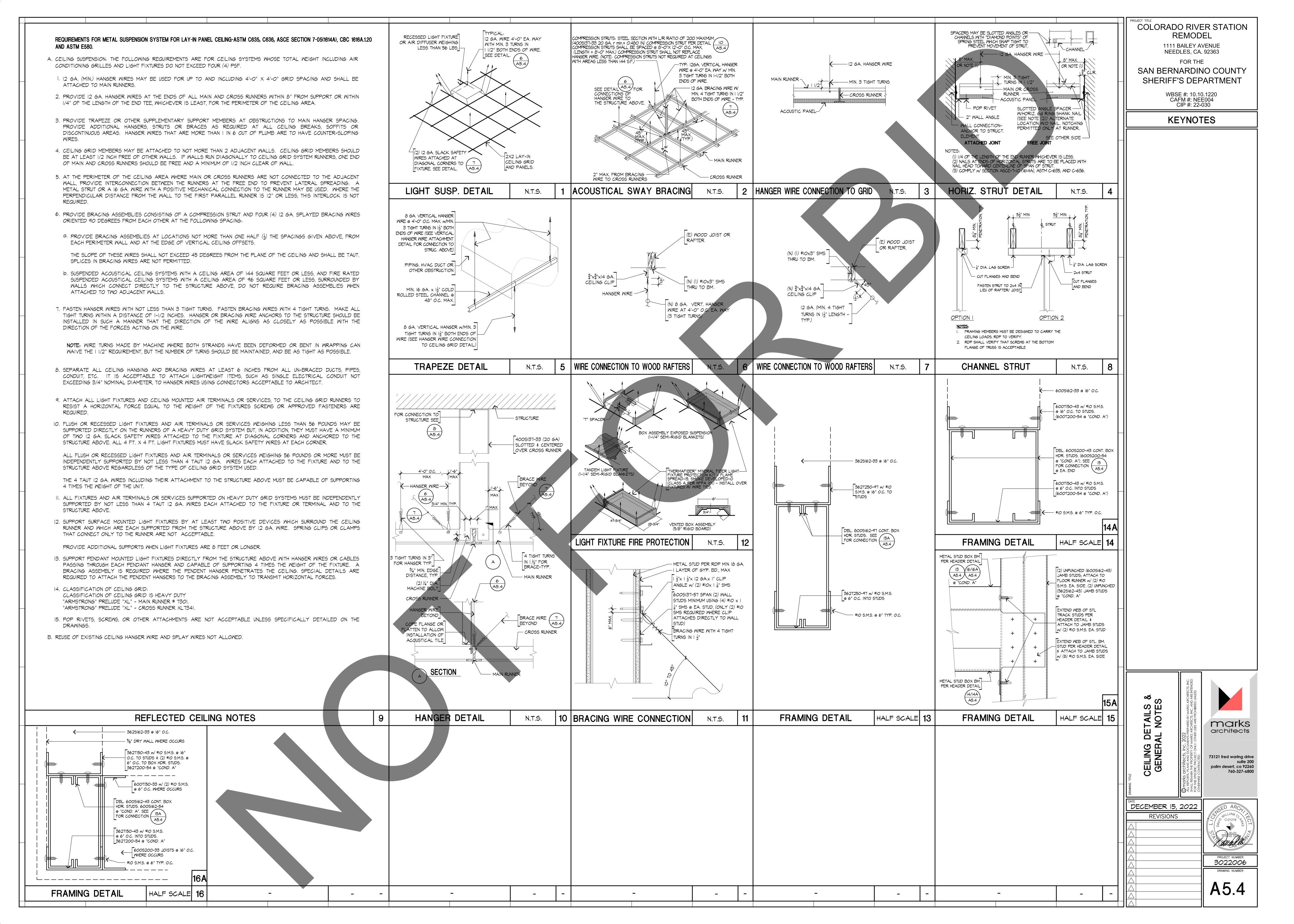


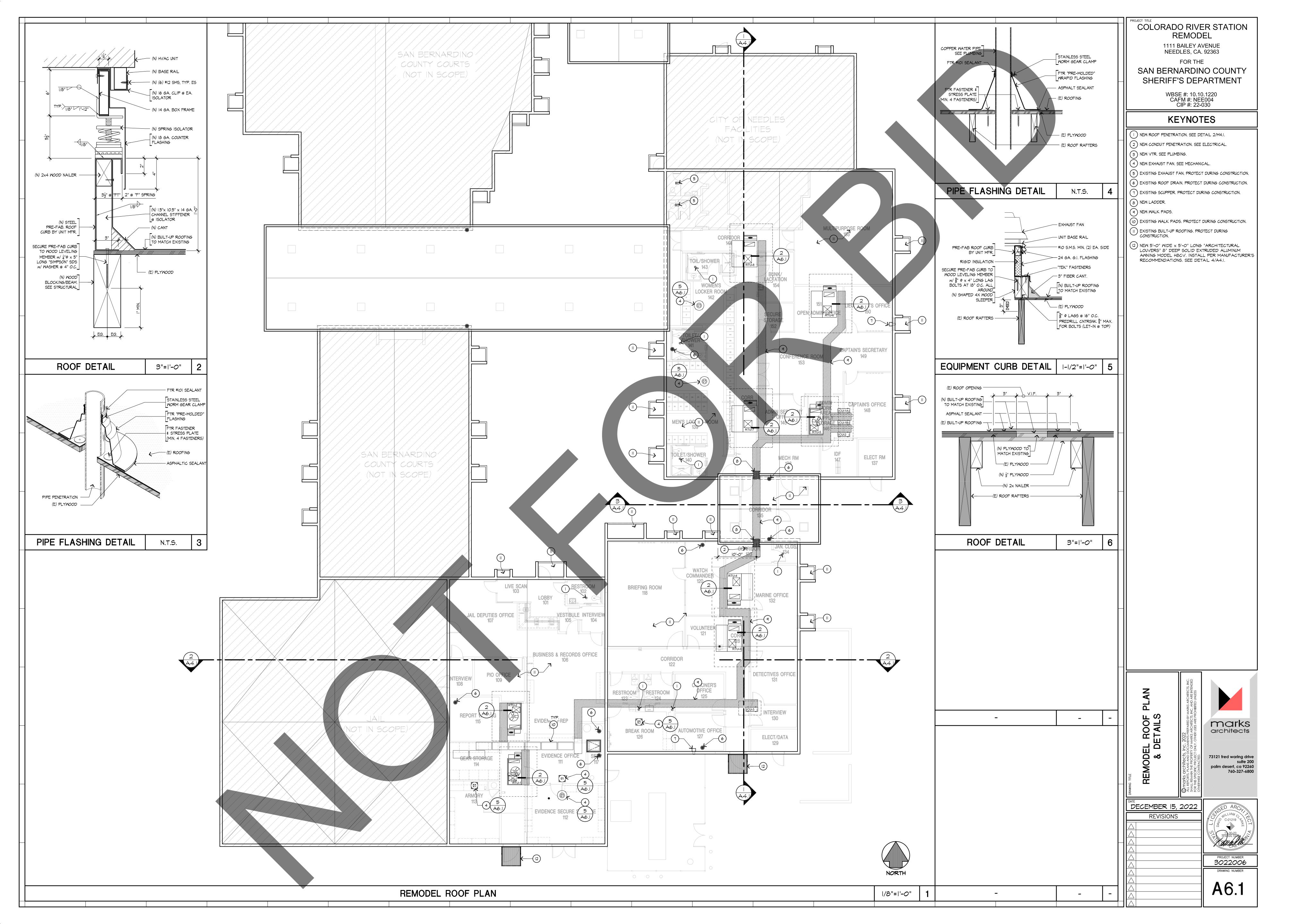


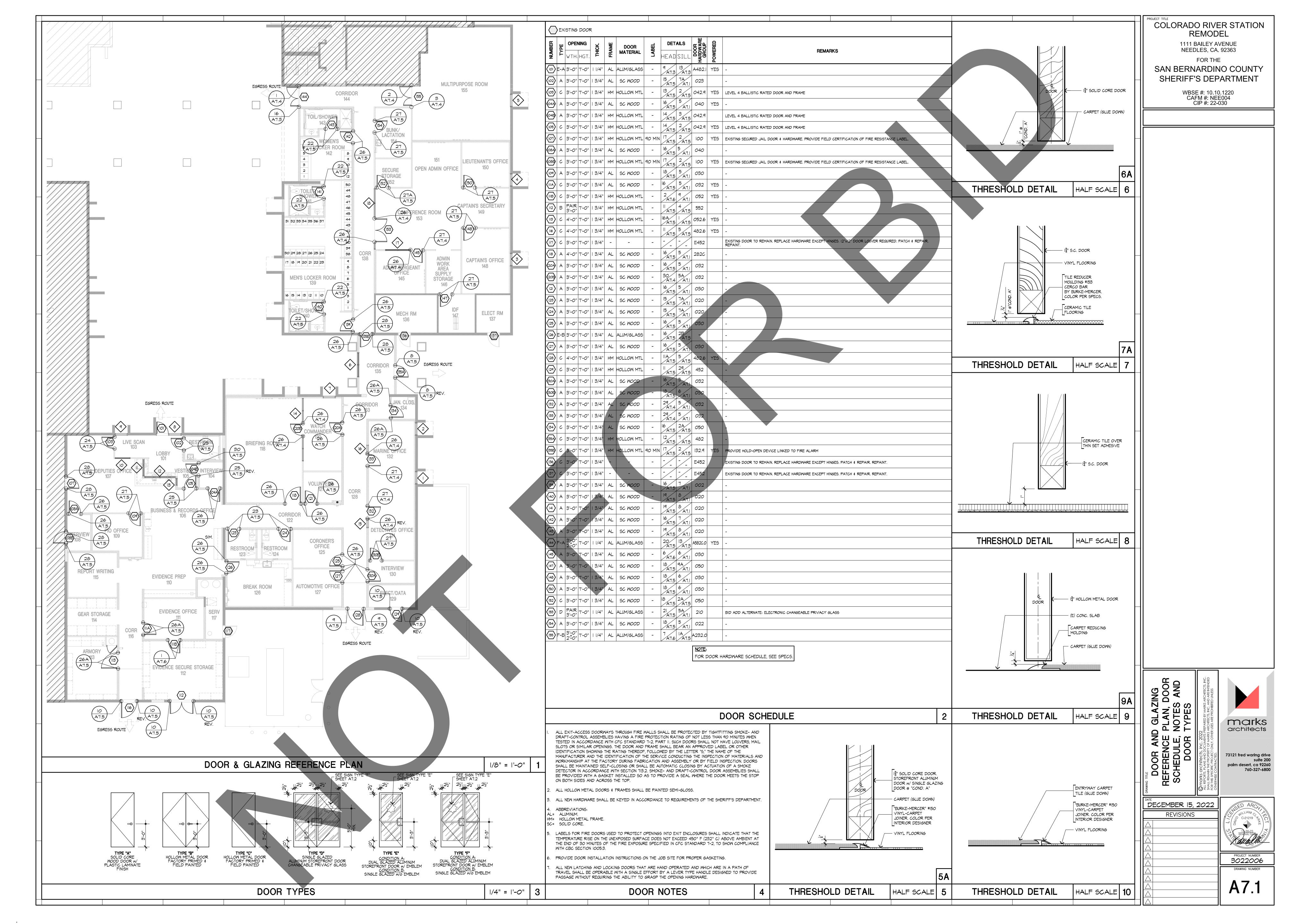


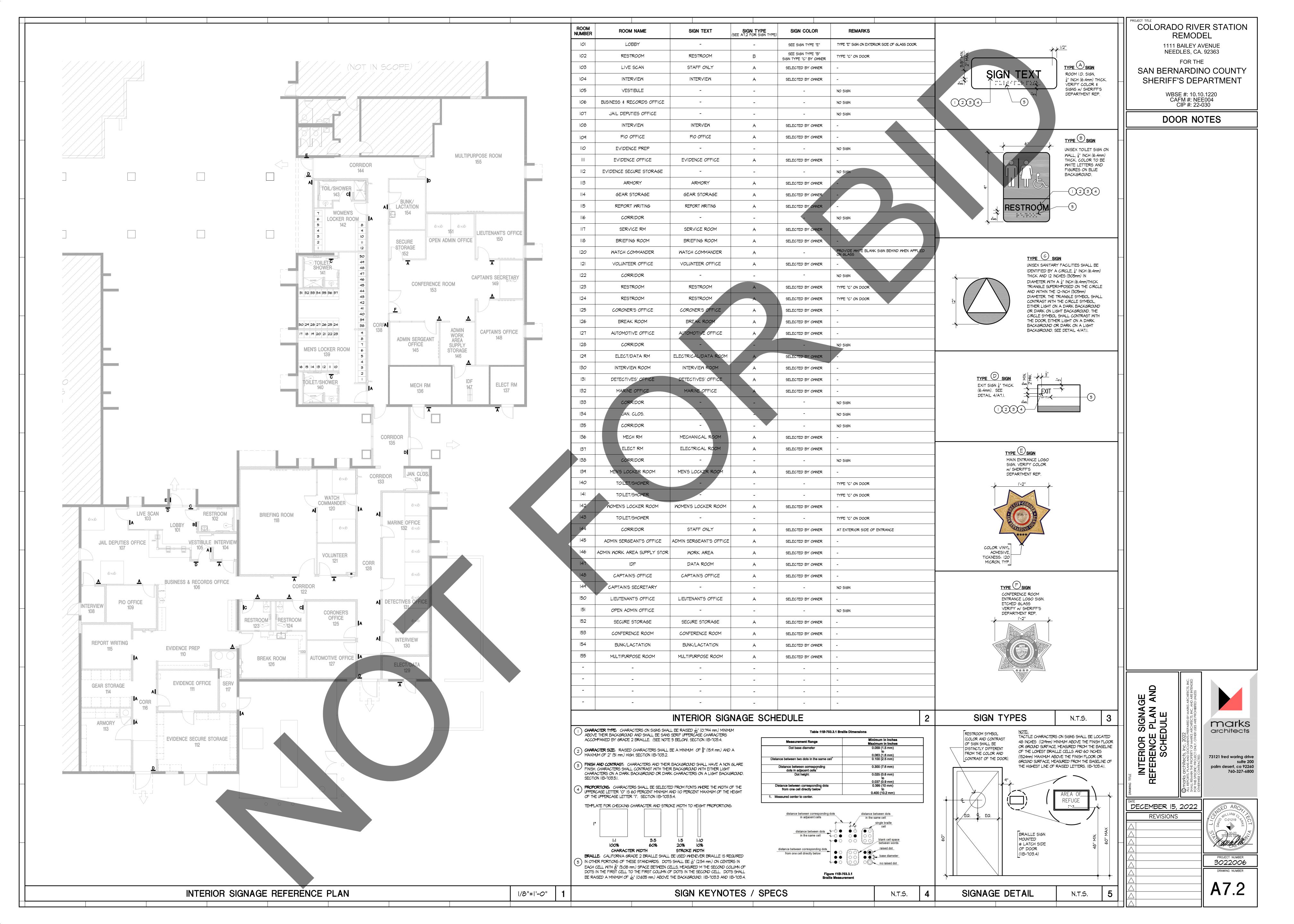


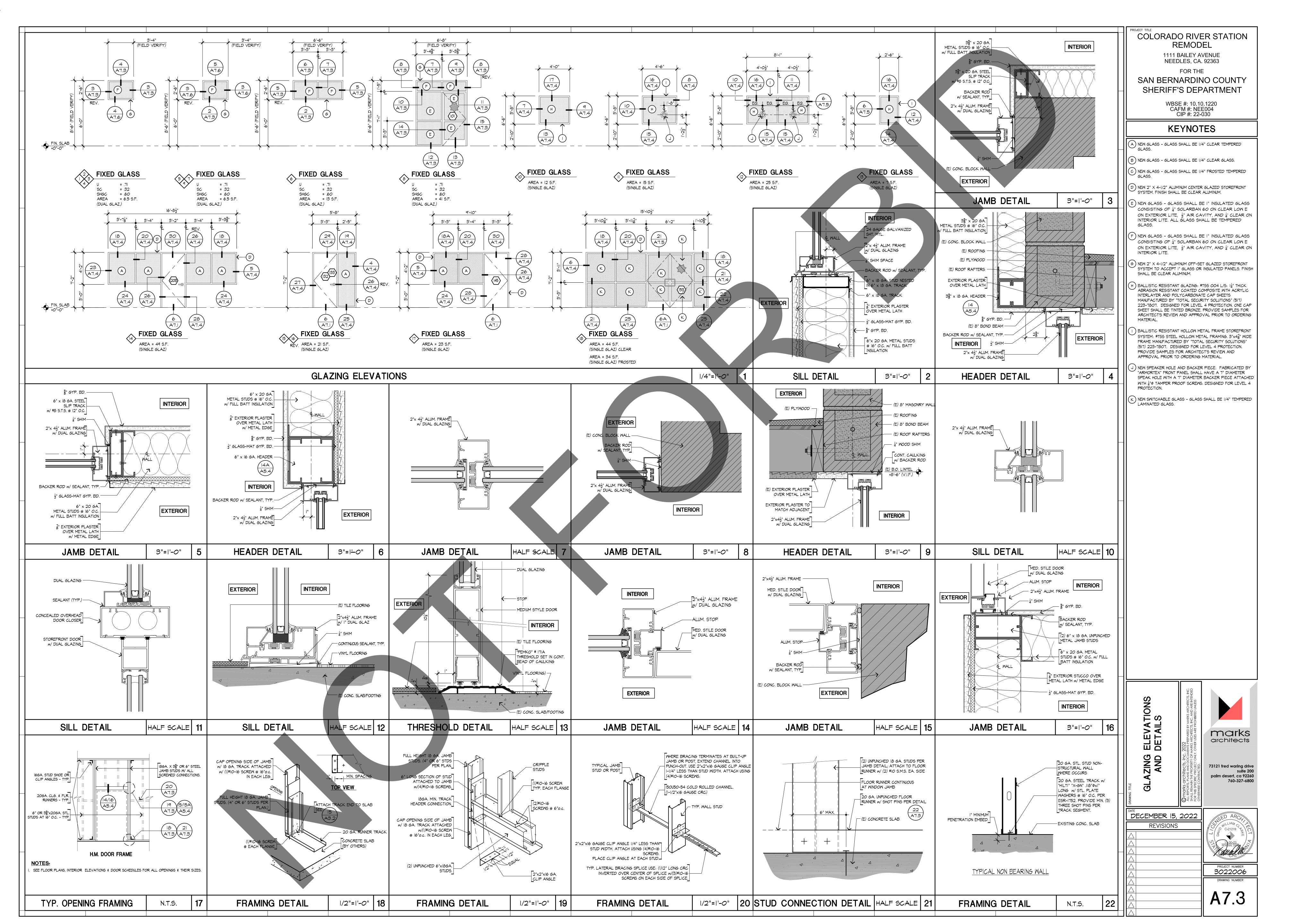


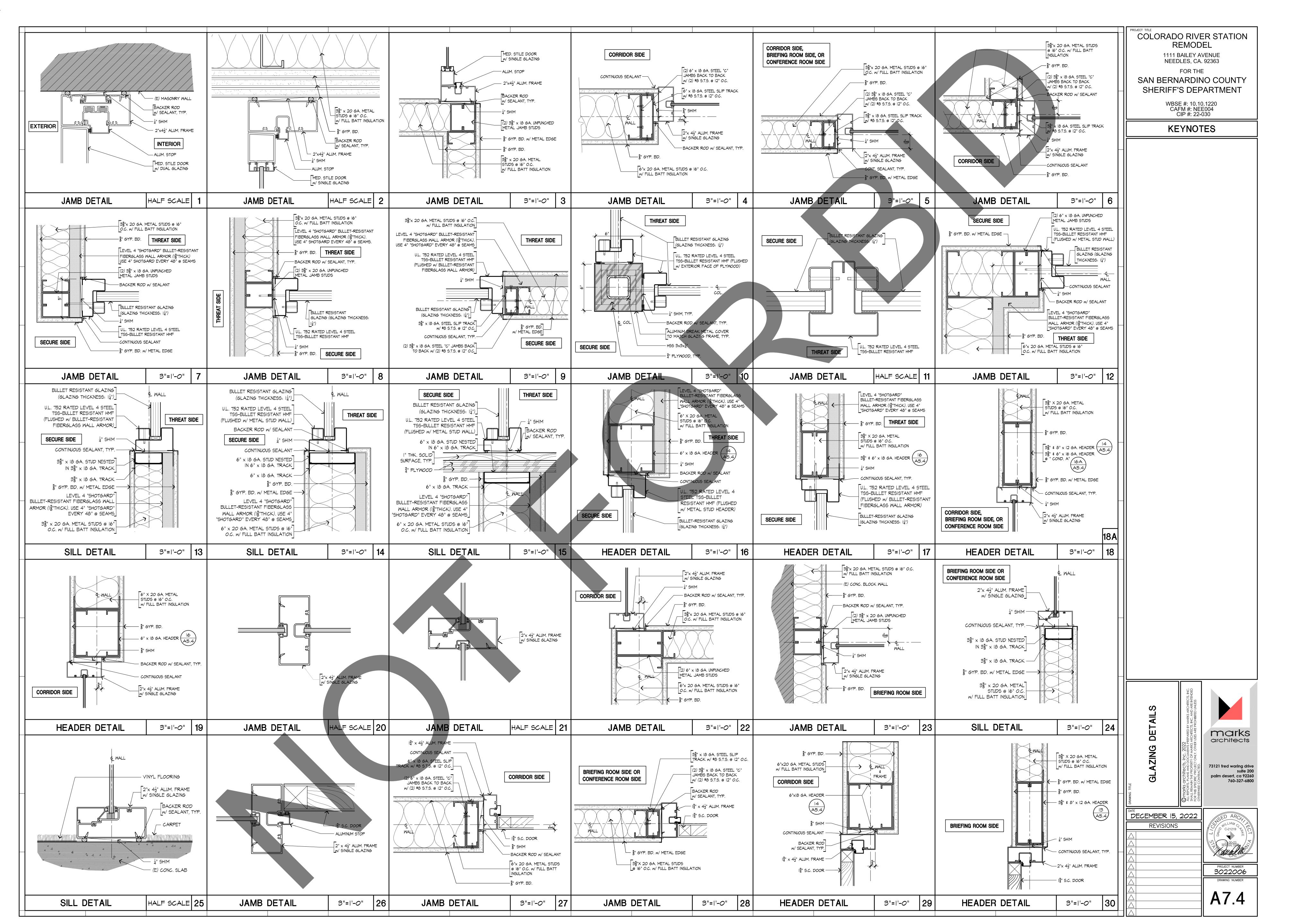


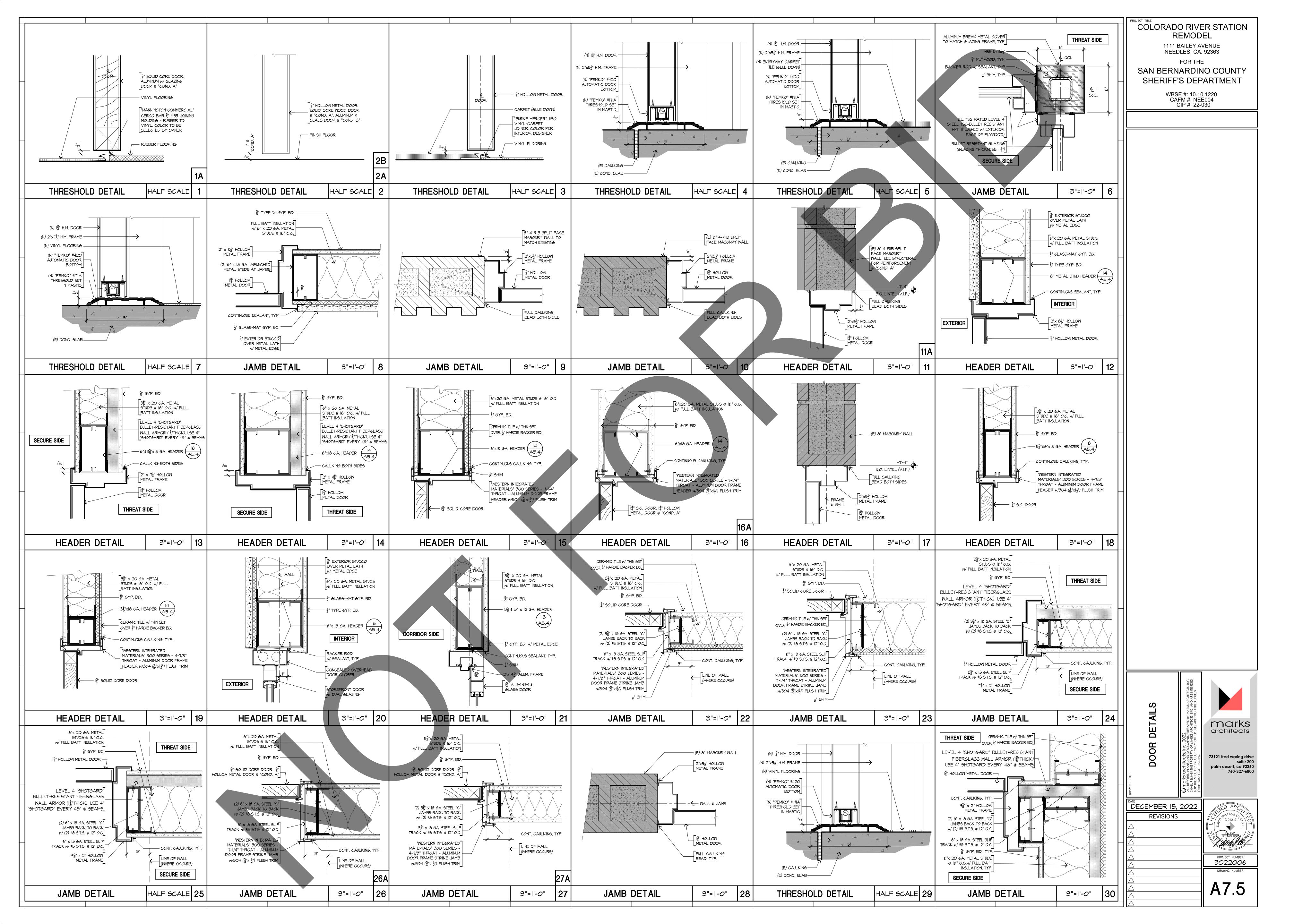


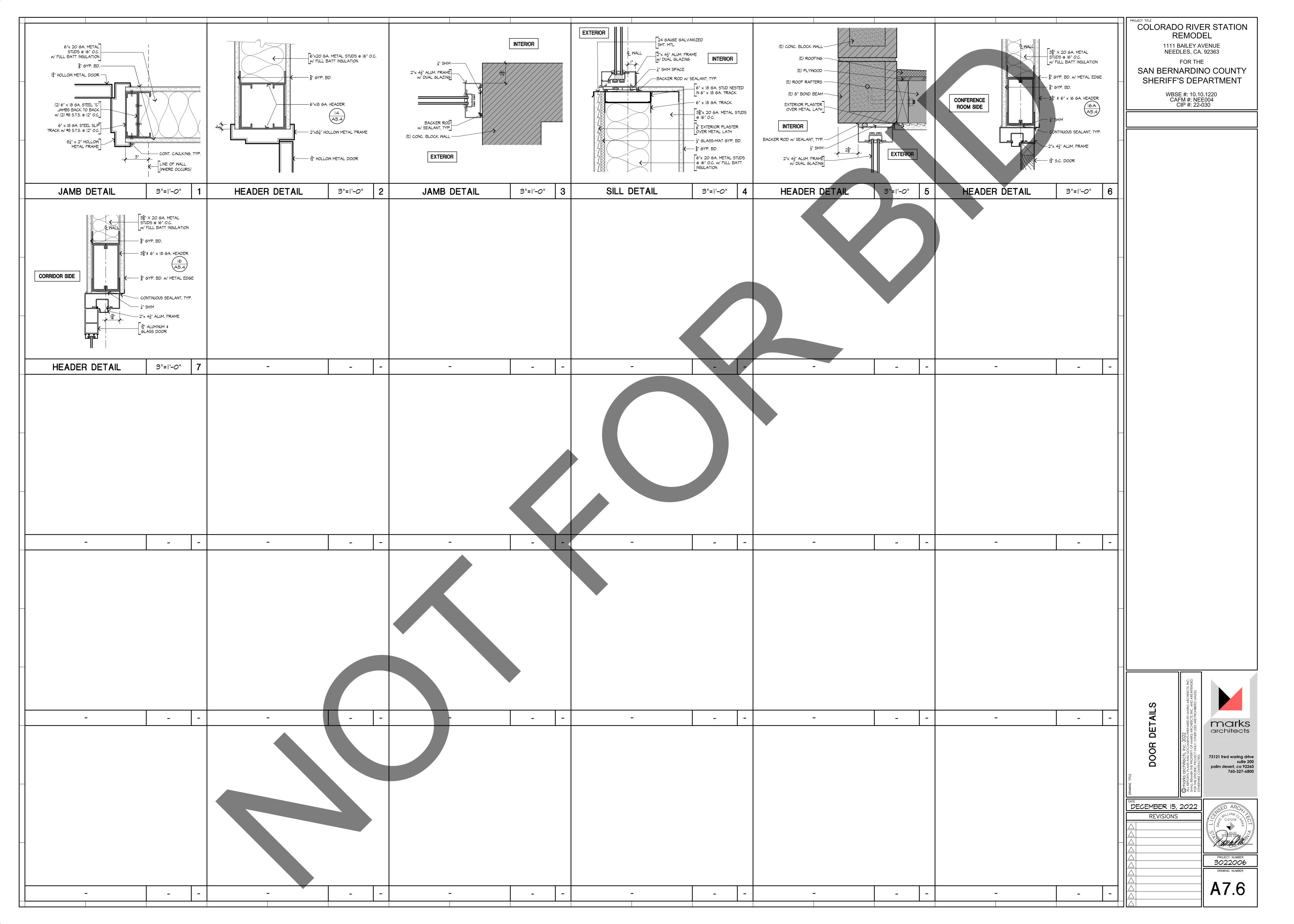


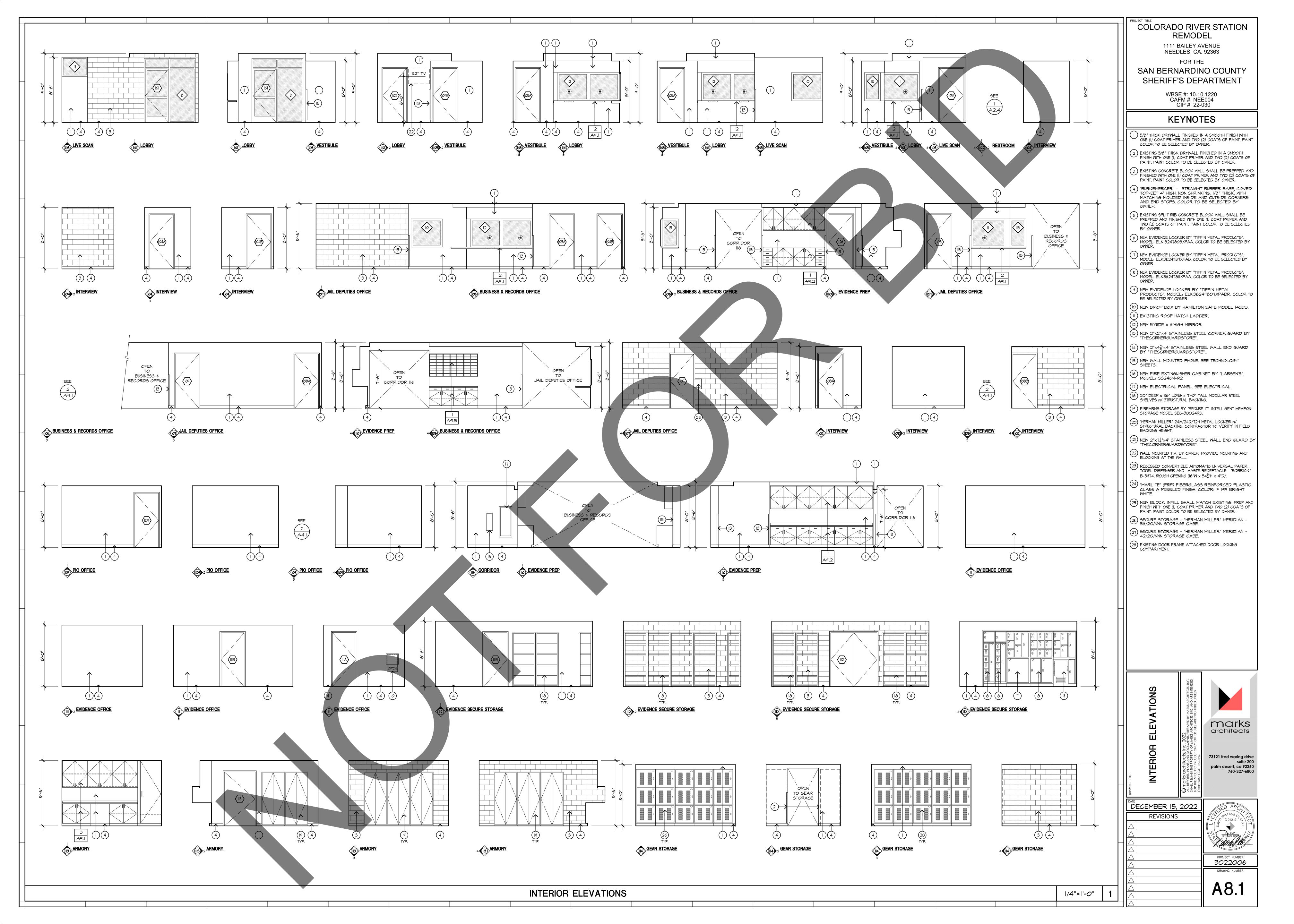


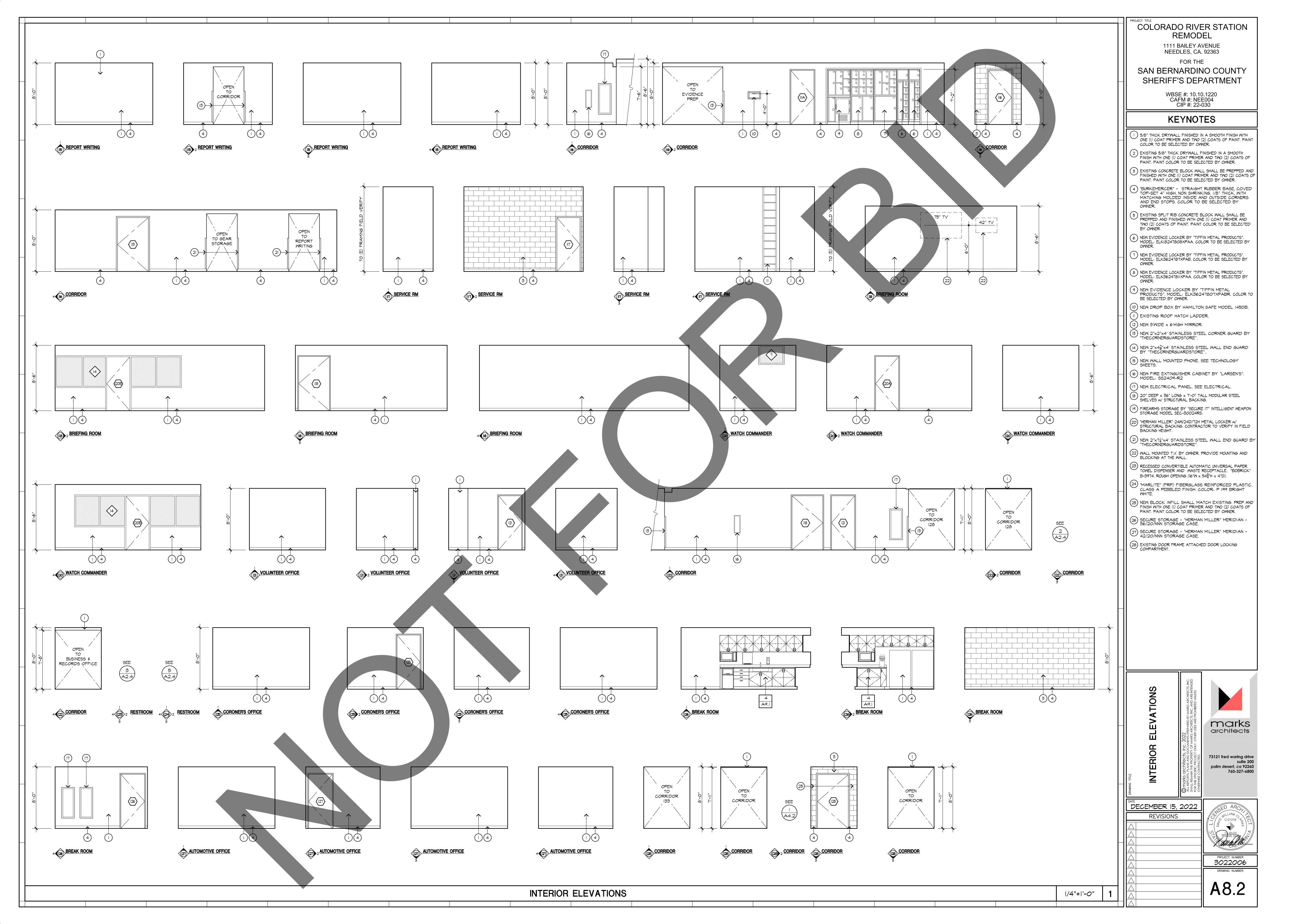


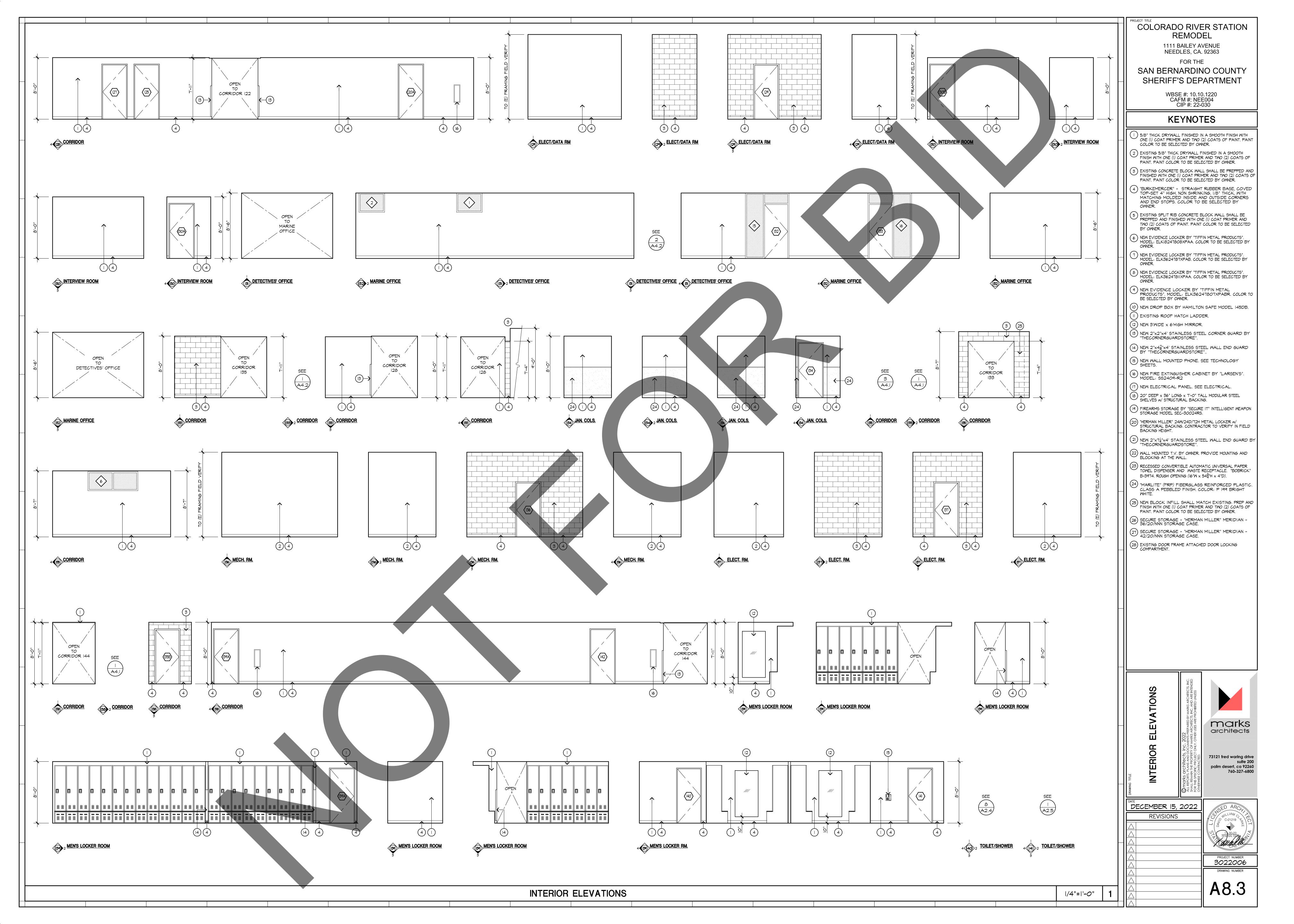


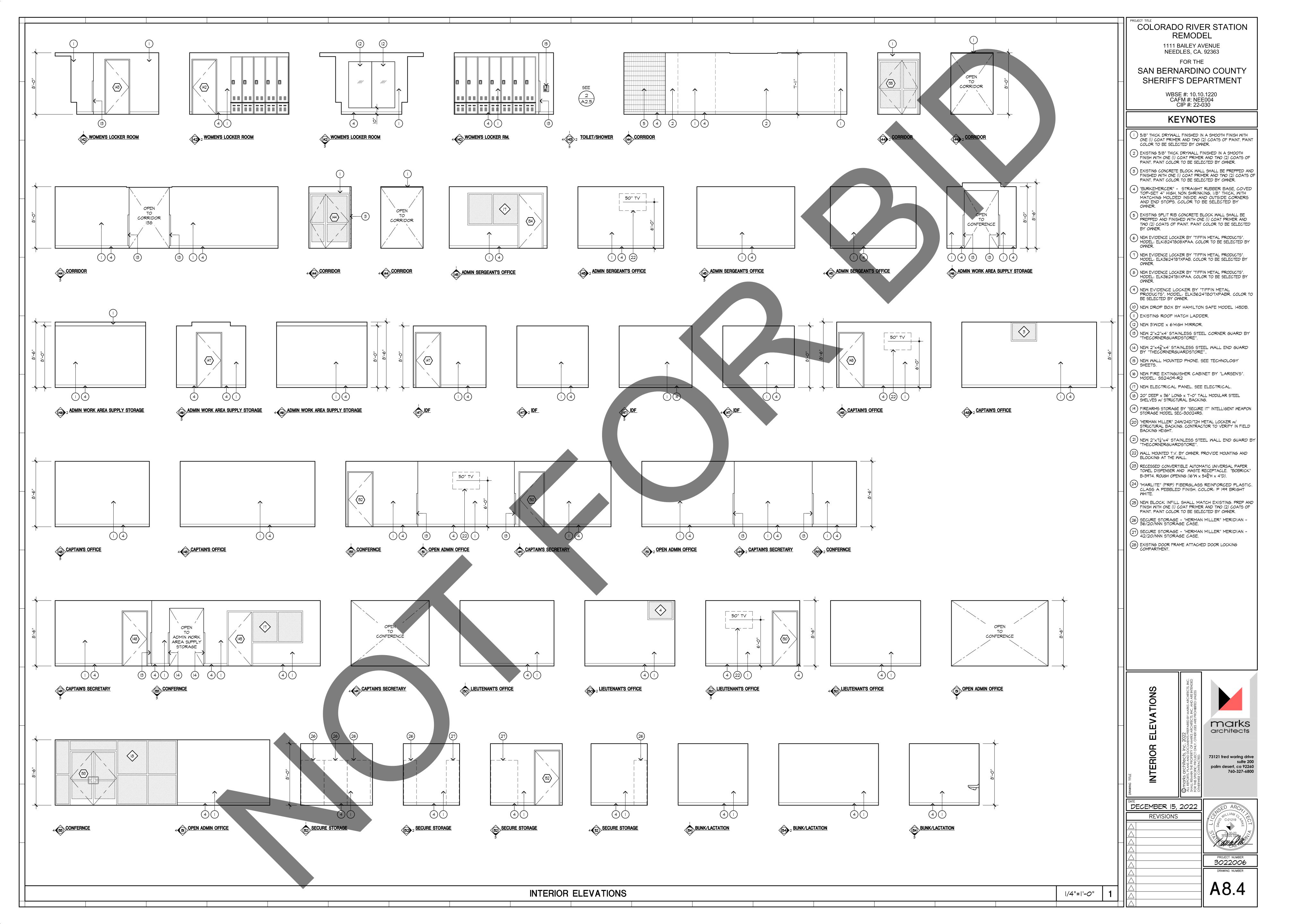


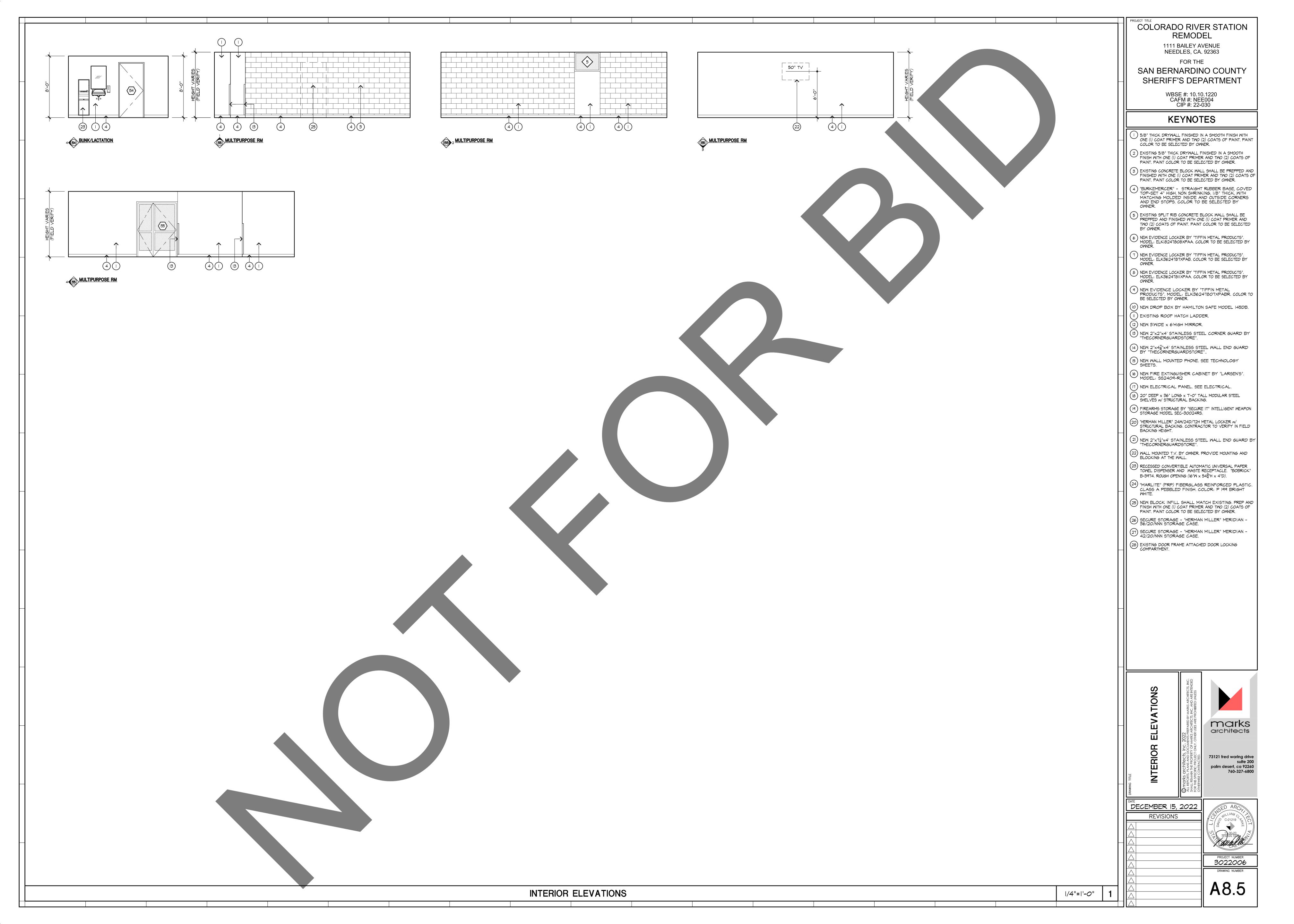


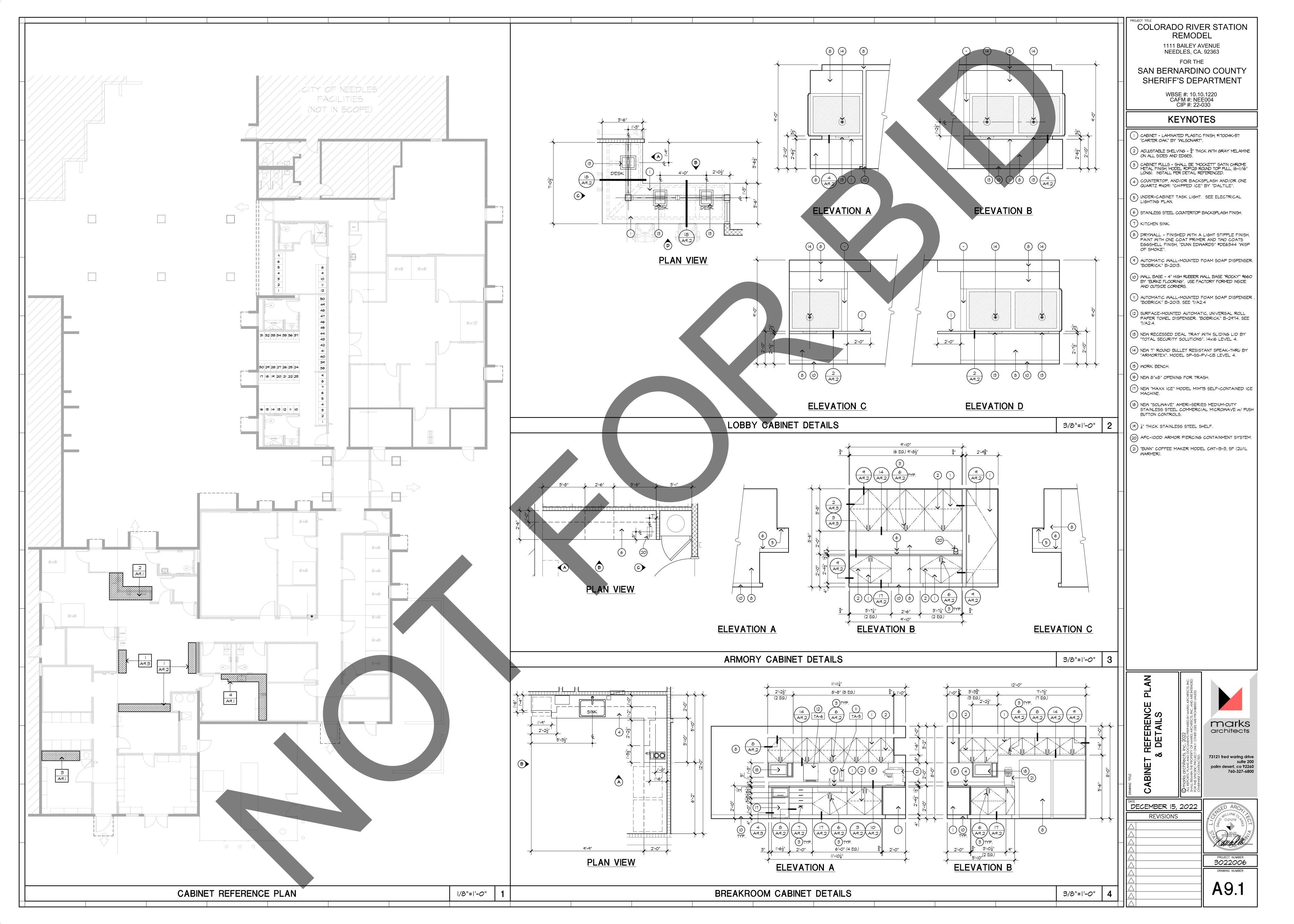


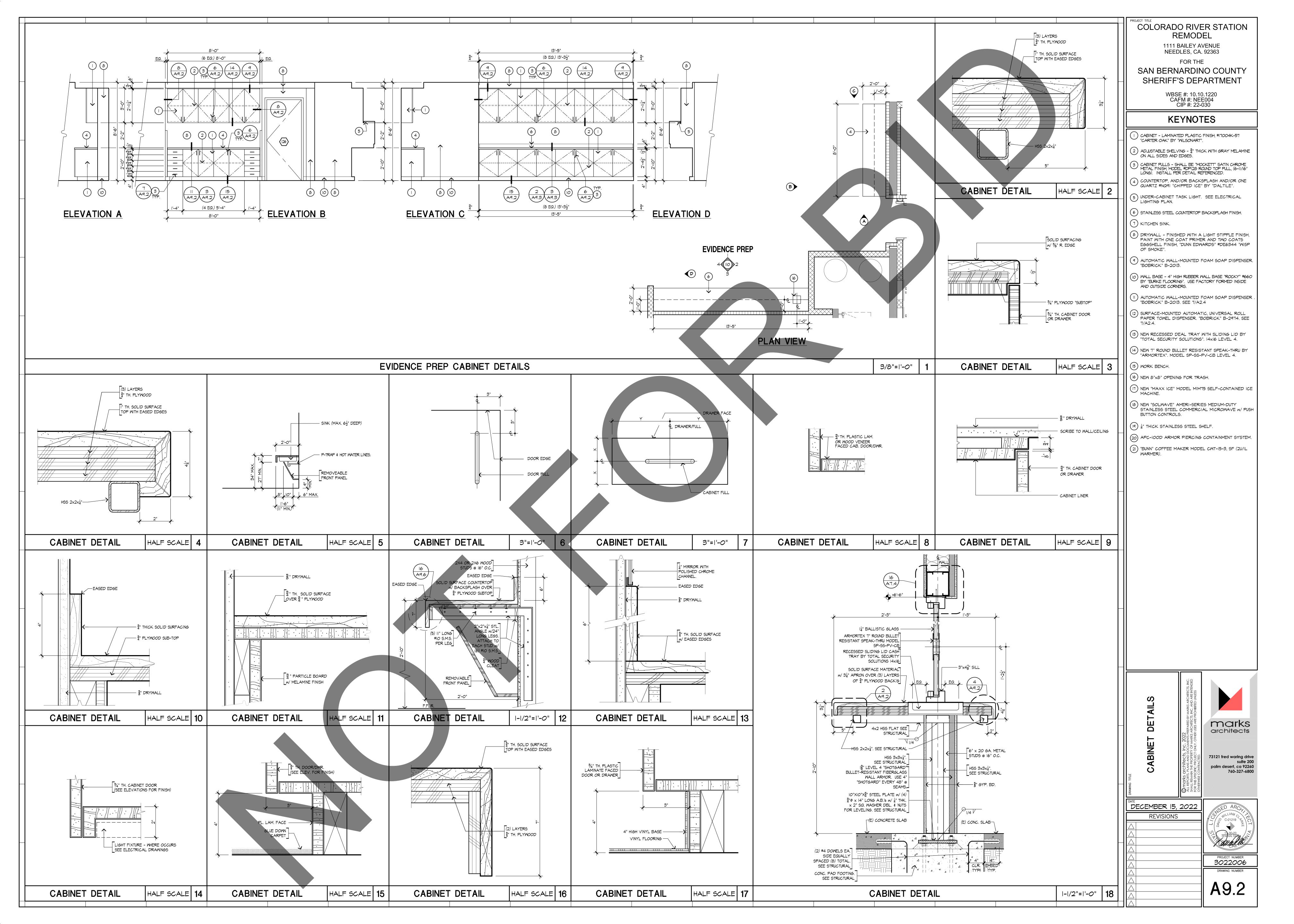


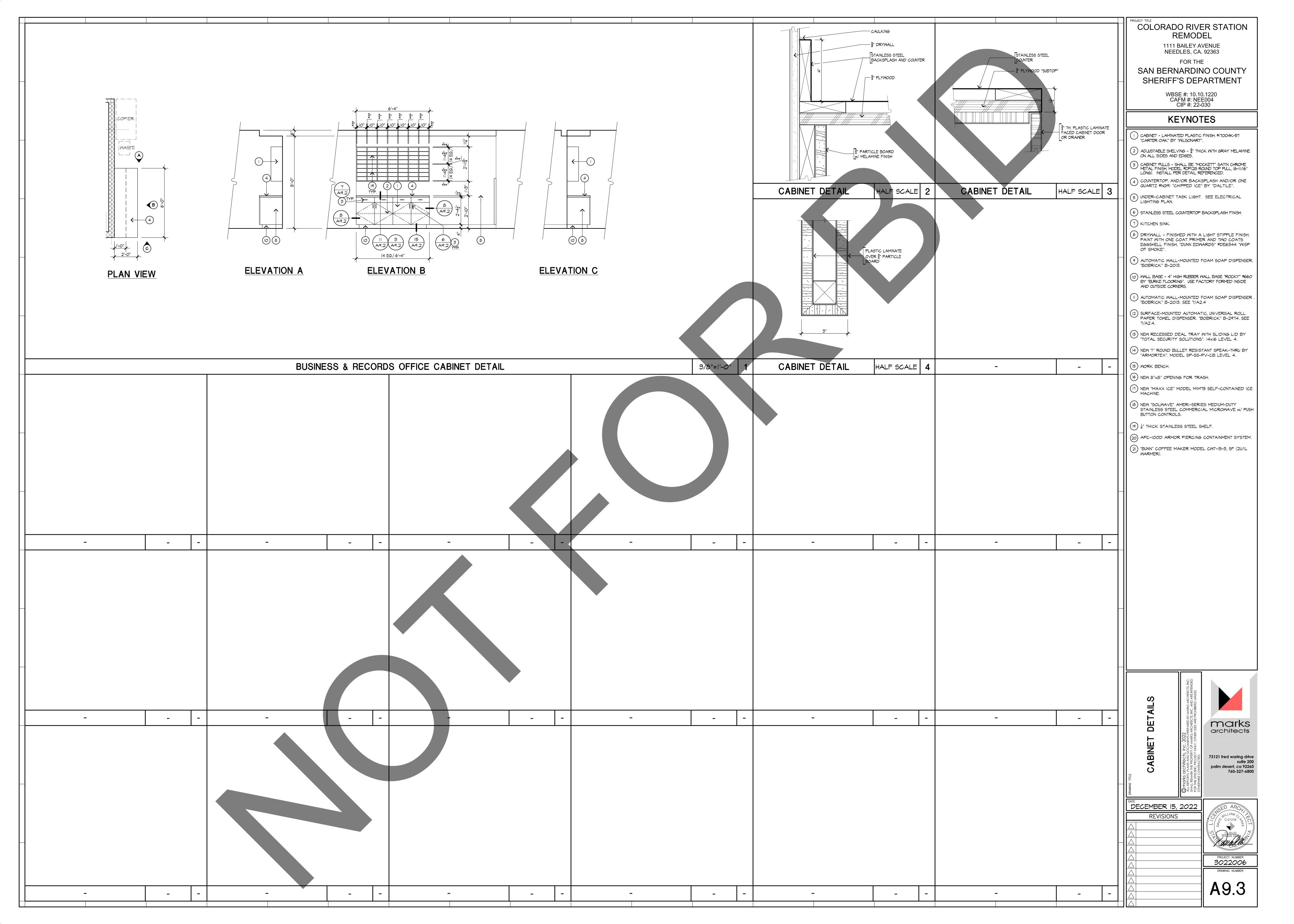


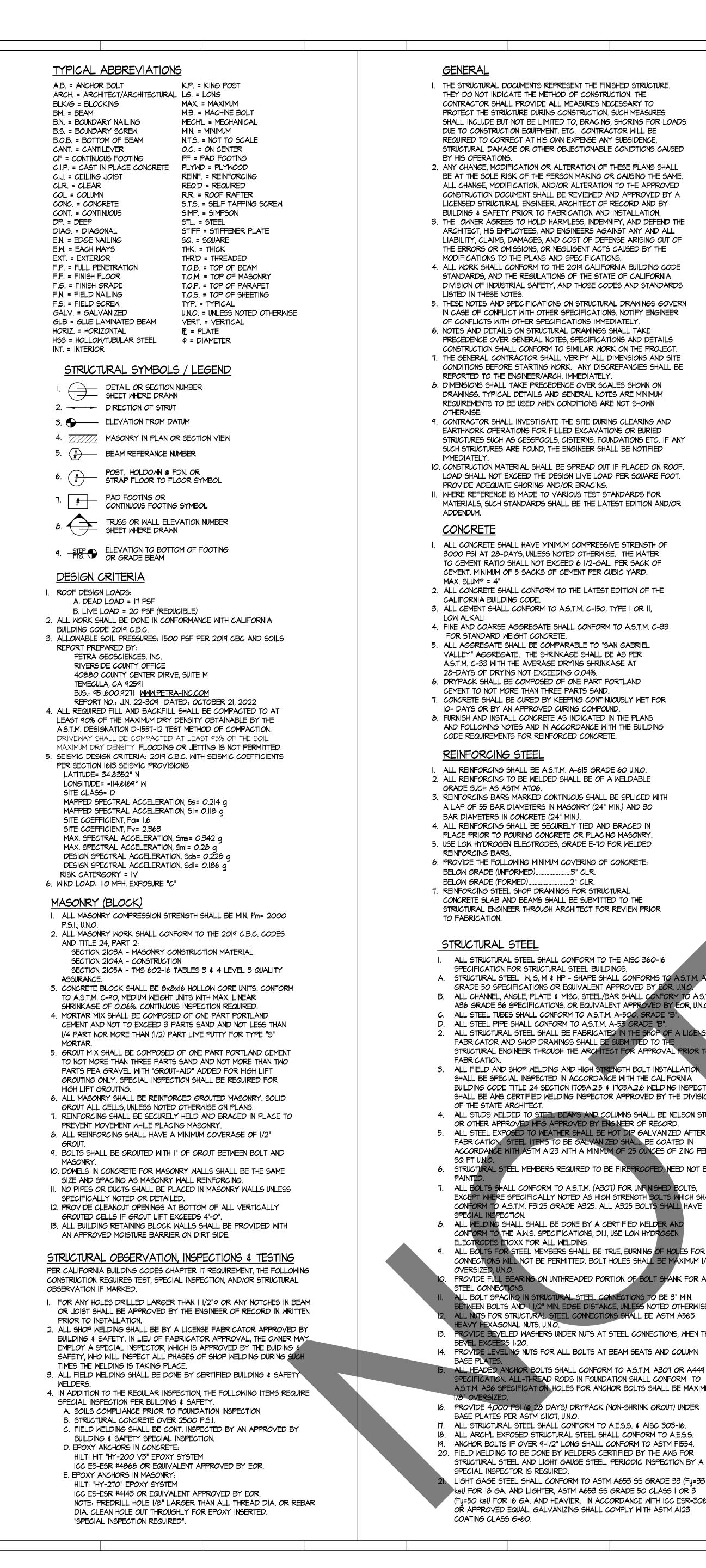












							$\top$
	GENERAL		LUMBER				
l.	THE STRUCTURAL DOCUMENTS REPRESENT THE FINISHED STRUCTURE.	l	———— ALL STRUCTURAL LUMBER SHALL BE				
	THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES		THE "GRADING AND DRESSING RULE LUMBER INSPECTION BUREAU. ALL STRUCTURAL LUMBER SHALL BE				
	SHALL INCLUDE BUT NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. CONTRACTOR WILL BE	i	FOLLOWING GRADES UNLESS NOTED STRUCTURAL DRAWINGS:				
	REQUIRED TO CORRECT AT HIS OWN EXPENSE ANY SUBSIDENCE, STRUCTURAL DAMAGE OR OTHER OBJECTIONABLE CONIDTIONS CAUSED	;	STUDS, PLATES, BLOCKING 4x BEAMS, STRINGERS				DF DF
2.	BY HIS OPERATIONS. ANY CHANGE, MODIFICATION OR ALTERATION OF THESE PLANS SHALL	i	6x \$ LARGER MEMBERS POSTS \$ MULLIONS				DF DF
	BE AT THE SOLE RISK OF THE PERSON MAKING OR CAUSING THE SAME.  ALL CHANGE, MODIFICATION, AND/OR ALTERATION TO THE APPROVED  CONSTRUCTION DOCUMENTS CHALL BE BE (IF WED AND ABBRO) (FD BY A	•	ROOF PLANKING & DECKING JOISTS & PLANKING & RAFTERS				DF
	CONSTRUCTION DOCUMENT SHALL BE REVIEWED AND APPROVED BY A LICENSED STRUCTURAL ENGINEER, ARCHITECT OF RECORD AND BY BUILDING & SAFETY PRIOR TO FABRICATION AND INSTALLATION.	!	BOARDS, SHEATHING & STRIPPING_ SILLS, PLATES, SLEEPERS, POSTS		CON NST. <i>G</i> F	NST. <i>GRA</i> RADE	<b>∤DE</b>
3.	THE OWNER AGREES TO HOLD HARMLESS, INDEMNIFY, AND DEFEND THE ARCHITECT, HIS EMPLOYEES, AND ENGINEERS AGAINST ANY AND ALL	1	OR WOOD IN CONTACT WITH CONCRI WHICH IS IN CONTACT WITH EARTH ALL STRUCTURAL PLYWOOD SHALL (	-'L PRI	ESSURE	TREATED	
	LIABILITY, CLAIMS, DAMAGES, AND COST OF DEFENSE ARISING OUT OF THE ERRORS OR OMISSIONS, OR NEGLIGENT ACTS CAUSED BY THE	1	BE IDENTIFIED WITH D.F.P.A. GRADE ALL LUMBER, PLYWOOD, FIBER SHEA	TRADEMA	ARK.	•	
4.	MODIFICATIONS TO THE PLANS AND SPECIFICATIONS. ALL WORK SHALL CONFORM TO THE 2019 CALIFORNIA BUILDING CODE	;	STRUCTURAL GLUE-LAM TIMBER MUS MARK OR CERTIFICATE OF INSPECT	T BE IDEN	ITIFIED B	BY A GRA	4DE
	STANDARDS, AND THE REGULATIONS OF THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY, AND THOSE CODES AND STANDARDS	5	AGENCY. PROVIDE MATERIAL SPEC! ALL STRUCTURAL PLYWOOD SHALL !	BE MANUF	ACTURED	O WITH EX	XTER
	LISTED IN THESE NOTES.  THESE NOTES AND SPECIFICATIONS ON STRUCTURAL DRAWINGS GOVERN  NOTES OF CONTRACT OF STRUCTURAL DRAWINGS GOVERN		GLUE AND CONFORM TO PSI-95. EA WITH AN A.P.A. GRADE TRADEMARK				
	IN CASE OF CONFLICT WITH OTHER SPECIFICATIONS. NOTIFY ENGINEER OF CONFLICTS WITH OTHER SPECIFICATIONS IMMEDIATELY. NOTES AND DETAILS ON STRUCTURAL DRAWINGS SHALL TAKE	6. 9	THICKNESS. STRUCTURAL MEMBERS SHALL NOT E SPECIFICALLY NOTED OR DETAILED		R PIPES	, ETC. UNI	_ESS
0.	PRECEDENCE OVER GENERAL NOTES, SPECIFICATIONS AND DETAILS CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT.	7.	SPLOINCALLT NOTED ON DETAILED 2X SOLID BLOCKING SHALL BE PLA RAFTERS AT ALL SUPPORTS.		IEEN JOI	STS OR	
7.	THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. ANY DISCREPANCIES SHALL BE	8.	ALL WOOD BEARING ON CONCRETE PRESSURE TREATED DOUGLAS FIR.	OR MASOI	NRY SHA	ILL BE	
8.	REPORTED TO THE ENGINEER/ARCH. IMMEDIATELY. DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALES SHOWN ON	ļ	ALL BOLTS BEARING ON WOOD SHA UNDER HEAD AND NUT, UNLESS NOTE:	D OTHERW	IISE.		
	DRAWINGS. TYPICAL DETAILS AND GENERAL NOTES ARE MINIMUM REQUIREMENTS TO BE USED WHEN CONDITIONS ARE NOT SHOWN		HOLES FOR BOLTS SHALL BE BOREI LARGER THAN THE NOMINAL BOLT D	IAMETER.			
9.	OTHERWISE. CONTRACTOR SHALL INVESTIGATE THE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED	i	ALL BOLTS SHALL BE RE-TIGHTENEI PLYWOOD, PLASTER, ETC. WHERE LAG SCREWS ARE USED. PRE				
	STRUCTURES SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS ETC. IF ANY SUCH STRUCTURES ARE FOUND, THE ENGINEER SHALL BE NOTIFIED		SAME DIAMETER AS THE SHANK, ANI THREADED PORTION. SCREWS SHALL	75% SHA	ANK DIA	METER FO	OR T
	IMMEDIATELY. CONSTRUCTION MATERIAL SHALL BE SPREAD OUT IF PLACED ON ROOF.		A WRENCH. DRIVING WITH A HAMMER ALL JOIST HANGERS SHALL BE "SIM	R WILL NOT	T BE PER	RMITTED.	
	LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT. PROVIDE ADEQUATE SHORING AND/OR BRACING.		GENERAL NAILING NOTES	•			
	WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR		ALL NAILS SHALL BE COMMON WIRE OTHERWISE AND SHALL CONFORM TO				NG
	ADDENDUM.  CONCRETE	(	CODE, TABLE NO. 2304.10.1 FASTENERS FOR PRESERVATIVE & F				
	ALL CONCRETE SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF	1	MOOD SHALL BE OF HOT DIPPED ZII N ACCORDANCE WITH ASTM A 153, S	NC-COATE	D GALV	ANIZED S	
	3000 PSI AT 28-DAYS, UNLESS NOTED OTHERWISE. THE WATER TO CEMENT RATIO SHALL NOT EXCEED 6 1/2-GAL. PER SACK OF		BRONZE OR COPPER. NAILS SHALL BE DRIVEN PERPENDIC	JULAR WHE		SIBLE IN:	ŝTE.A
•	CEMENT. MINIMUM OF 5 SACKS OF CEMENT PER CUBIC YARD.  MAX. SLUMP = 4"	4. 1	OF TOENAILS. PRE-DRILL FOR ALL NAILS 20d OR	\_\2\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	PENNY-MEIGHT COMMON NAILS	± (s)	铝
	ALL CONCRETE SHALL CONFORM TO THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE. ALL CEMENT SHALL CONFORM TO A.S.T.M. C-150, TYPE I OR II,		LARGER.  TYPICAL NAILING SCHEDULE,	QUANTITY OR SPACING	NY-YN	LENGTH (INCHES)	DIAMETER
	LOW ALKALI FINE AND COARSE AGGREGATE SHALL CONFORM TO A.S.T.M. C-33		UNLESS NOTED OTHERWISE  JOIST TO SILL OR GIRDER TOENAL		8d	2 1/2"	0.1
	FOR STANDARD WEIGHT CONCRETE. ALL AGGREGATE SHALL BE COMPARABLE TO "SAN GABRIEL	<u> </u>	BRIDGING TO JOIST TOENAIL	2	8d	2 1/2"	0.
	VALLEY" AGGREGATE. THE SHRINKAGE SHALL BE AS PER A.S.T.M. C-33 WITH THE AVERAGE DRYING SHRINKAGE AT	C.	I" x 6" SUBFLOOR OR LESS TO	2	8d	3" 2 l/2"	0.l 0.l
6.	28-DAYS OF DRYING NOT EXCEEDING 0.04%. DRYPACK SHALL BE COMPOSED OF ONE PART PORTLAND		EACH JOIST, FACE NAIL  WIDER THAN I" × 6" SUBFLOOR TO	3	8d	2 1/2"	0.
7.	CEMENT TO NOT MORE THAN THREE PARTS SAND.  CONCRETE SHALL BE CURED BY KEEPING CONTINUOUSLY WET FOR	D	EACH JOIST, FACE NAIL  2" SUBFLOOR TO JOIST OR	2	16d	3 1/2"	0.10
8.	IO- DAYS OR BY AN APPROVED CURING COMPOUND. FURNISH AND INSTALL CONCRETE AS INDICATED IN THE PLANS		GIRDER, BLIND & FACE NAIL				
	AND FOLLOWING NOTES AND IN ACCORDANCE WITH THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.	E.	SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL	16" O.C. 8" O.C.		3 l/2" 3"	0.
	REINFORCING STEEL		SOLE PLATE TO JOIST OR BLOCKING AT BRACED WALL PAN	16" O.C. EL	16d	3 1/2"	0.1
	ALL REINFORCING SHALL BE A.S.T.M. A-615 GRADE 60 U.N.O. ALL REINFORCING TO BE WELDED SHALL BE OF A WELDABLE	F.	TOP PLATE TO STUD END NAIL	2 3	16d	3 l/2" 3"	0.l 0.l
3.	GRADE SUCH AS ASTM ATO6. REINFORCING BARS MARKED CONTINUOUS SHALL BE SPLICED WITH	6.	STUD TO SOLE PLATE, TOENAIL STUD TO SOLE PLATE, END NAIL	4 2	8d 16d	2 1/2" 3 1/2"	
,	A LAP OF 55 BAR DIAMETERS IN MASONRY (24" MIN.) AND 30 BAR DIAMETERS IN CONCRETE (24" MIN.).	H.	DOUBLE STUD, FACE NAIL. U.N.O.	24" O.C.	. 16d	3 l/2" 3"	
	ALL REINFORCING SHALL BE SECURELY TIED AND BRACED IN PLACE PRIOR TO POURING CONCRETE OR PLACING MASONRY.  USE LOW HYDROGEN ELECTRODES, GRADE E-70 FOR WELDED	I.	DOUBLE TOP PLATE, TYP. FACE	16" O.C	l6d	3 1/2"	0.1
	REINFORCING BARS. PROVIDE THE FOLLOWING MINIMUM COVERING OF CONCRETE:	J.	NAIL BLOCKING BETWEEN JOISTS OR	8" O.C.	8d	3" 2 l/2"	0. 0.
0.	BELOW GRADE (UNFORMED)3" CLR. BELOW GRADE (FORMED)2" CLR.	K.	RAFTERS TO TOP PLATE, TOENAIL RIM JOIST TO TOP PLATE, TOENAIL		8d	3" 2 l/2"	0.l 0.l
7.	REINFORCING STEEL SHOP DRAWINGS FOR STRUCTURAL CONCRETE SLAB AND BEAMS SHALL BE SUBMITTED TO THE		TOP PLATES, LAPS,#	6" O.C.		3" 3 l/2"	0.l
	STRUCTURAL ENGINEER THROUGH ARCHITECT FOR REVIEW PRIOR TO FABRICATION.	<u>-</u> .	INTERSECTIONS, FACE NAILS	3		3" 3 1/2"	0.l
			CONTINUOUS HEADER, TWO PIECES, NAIL ALONG EDGE				
	STRUCTURAL STEEL  ALL STRUCTURAL STEEL SHALL CONFORM TO THE AISC 360-16	N.	CEILING JOIST TO PLATE, TOENAIL	<b>3</b> 5	8d	2 l/2" 3"	0.l 0.l
	SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.  A. STRUCTURAL STEEL W, S, M & HP - SHAPE SHALL CONFORMS TO A.S.T.M. A992	0.	CONTINUOUS HEADER TO STUD, TOENAIL	4	8d	2 1/2"	0.1
	GRADE 50 SPECIFICATIONS OR EQUIVALENT APPROVED BY EOR, U.N.O.  3. ALL CHANNEL, ANGLE, PLATE & MISC. STEEL/BAR SHALL CONFORM TO A.S.T.M	P.	RAFTER TO PLATE, TOENAIL	3 3	8d	2 l/2" 3"	0.l 0.l
(	A36 GRADE 36 SPECIFICATIONS, OR EQUIVALENT APPROVED BY EOR, U.N.O.  C. ALL STEEL TUBES SHALL CONFORM TO A.S.T.M. A-500, GRADE "B".	Q.	I" DIAGONAL BRACE TO EACH STUD & PLATE, FACE NAIL	2 2	8d	2 1/2"	0.
	2. ALL STEEL PIPE SHALL CONFORM TO A.S.T.M. A-53 GRADE "B". 2. ALL STRUCTURAL STEEL SHALL BE FABRICATED IN THE SHOP OF A LICENSED	R.	I" x 8" OR WIDER SHEATHING TO	3	8d	2 1/2"	
	FABRICATOR AND SHOP DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER THROUGH THE ARCHITECT FOR APPROVAL PRIOR TO FABRICATION.	5.	EACH BEARING, FACE NAIL, U.N.O. BUILT-UP CORNER STUDS	12" O.C.		3 1/2"	
5	3. ALL FIELD AND SHOP WELDING AND HIGH STRENGTH BOLT INSTALLATION SHALL BE SPECIAL INSPECTED IN ACCORDANCE WITH THE CALIFORNIA	Т.	BUILT-UP GIRDER & BEAM, FACE	8" O.C. 24" O.C.		3" 4"	0.l
	BUILDING CODE TITLE 24 SECTION 1705A.2.5 & 1705A.2.6 WELDING INSPECTOR SHALL BE AWS CERTIFIED WELDING INSPECTOR APPROVED BY THE DIVISION		NAIL AT TOP & BOTTOM STAGGERED ON OPPOSITE SIDES.	12" O.C.		3"	0.1
4	OF THE STATE ARCHITECT.  4. ALL STUDS WELDED TO STEEL BEAMS AND COLUMNS SHALL BE NELSON STUDS	U. V.	2" PLANKS, AT EACH BEARING  JACK RAFTER TO HIP, TOENAIL	2	l6d l0d	3 l/2" 3"	0.le
5	OR OTHER APPROVED MFG APPROVED BY ENGINEER OF RECORD.  5. ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIP GALVANIZED AFTER	IAI	JACK RAFTER TO HIP, FACE NAIL JOIST TO BAND JOIST, FACE NAIL	2	16d 16d	3 l/2" 3 l/2"	0.ld
	FABRICATION. STEEL ITEMS TO BE GALVANIZED SHALL BE COATED IN ACCORDANCE WITH ASTM AI23 WITH A MINIMUM OF 25 OUNCES OF ZINC PER	X.	LEDGER STRIP, FACE NAIL	3	l6d	3 1/2"	0.10
6	SQ FT U.N.O.  5. STRUCTURAL STEEL MEMBERS REQUIRED TO BE FIREPROOFED, NEED NOT BE	<u> </u>		4		3"	0.1
-	PAINTED.  7. ALL BOLTS SHALL CONFORM TO A.S.T.M. (A307) FOR UNFINISHED BOLTS, EXCEPT WHERE SPECIFICALLY NOTED AS HIGH STRENGTH BOLTS WHICH SHALL	9	SPECIAL INSPECTIONS NO	TES			
	EXCEPT WHERE SPECIFICALLY NOTED AS HIGH STRENGTH BOLTS WHICH SHALL CONFORM TO A.S.T.M. F3125 GRADE A325. ALL A325 BOLTS SHALL HAVE SPECIAL INSPECTION.		THE FOLLOWING ITEMS REQUIRE SPE BUILDING CODES:		ECTION :	PER CUR	REN
8	3. ALL WELDING SHALL SHALL BE DONE BY A CERTIFIED WELDER AND CONFORM TO THE A.W.S. SPECIFICATIONS, DI.I, USE LOW HYDROGEN	1	BUILDING CODES: A. EPOXY ANCHORS IN CONCRI HILTI HIT <b>"HY-200 V3"</b> EF		TEM ICC	, ES-FSR	#48
ć	ELECTRODES ETOXX FOR ALL WELDING.  ALL BOLTS FOR STEEL MEMBERS SHALL BE TRUE, BURNING OF HOLES FOR		OR EQUIVALENT APPROV B. EPOXY ANCHORS IN MASON	ED BY EC			
	CONNECTIONS WILL NOT BE PERMITTED. BOLT HOLES SHALL BE MAXIMUM 1/16" OVERSIZED, U.N.O.		HILTI HIT "HY-270" EPOX OR EQUIVALENT APPROV	YSYSTEM		·ESR #4 4	13
	O. PROVIDE FULL BEARING ON UNTHREADED PORTION OF BOLT SHANK FOR ALL STEEL CONNECTIONS.		<u>NOTES:</u> * PREDRILL HOLE 1/8" LARGER	R THAN AL	L THREA	-	
	I. ALL BOLT SPACING IN STRUCTURAL STEEL CONNECTIONS TO BE 3" MIN. BETWEEN BOLTS AND 1 1/2" MIN. EDGE DISTANCE, UNLESS NOTED OTHERWISE.		CLEAN HOLE OUT THROUGHL SYSTEM, INSTALL PER MFR'S				
	2. ALL NUTS FOR STRUCTURAL STEEL CONNECTIONS SHALL BE ASTM A563 HEAVY HEXAGONAL NUTS, U.N.O.  3. PROVIDE BEYELED MAGNEEDS INDEED NUTS AT STEEL CONNECTIONS MILEN THE		REQUIRED".  * ALL ANCHORS MUST BE TES	TED IN AC	CORDA	NCE WITH	ŀ
	3. PROVIDE BEVELED WASHERS UNDER NUTS AT STEEL CONNECTIONS, WHEN THE BEVEL EXCEEDS 1:20.  4. PROVIDE LEVELING NUTS FOR ALL BOLTS AT BEAM SEATS AND COLUMN		CBC 1910A.				
ŀ	<ol> <li>PROVIDE LEVELING NUTS FOR ALL BOLTS AT BEAM SEATS AND COLUMN BASE PLATES.</li> </ol>						

BASE PLATES PER ASTM CIIOT, U.N.O.

SPECIAL INSPECTOR IS REQUIRED.

COATING CLASS G-60.

SPECIFICATION. ALL-THREAD RODS IN FOUNDATION SHALL CONFORM TO

. ANCHOR BOLTS IF OVER 9-1/2" LONG SHALL CONFORM TO ASTM F1554.

STRUCTURAL STEEL AND LIGHT GAUGE STEEL. PERIODIC INSPECTION BY A

LIGHT GAGE STEEL SHALL CONFORM TO ASTM A653 SS GRADE 33 (Fy=33

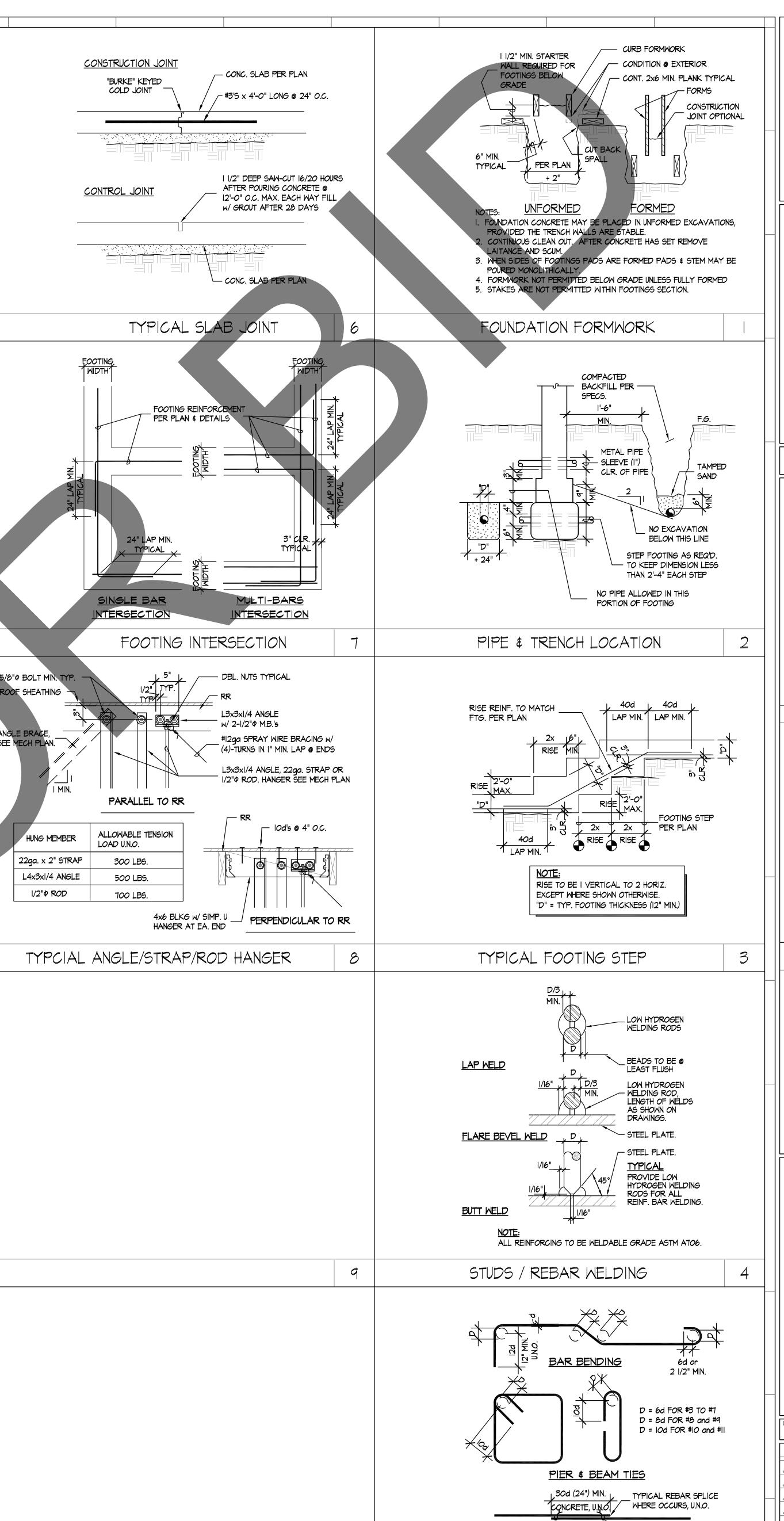
(Fu=50 ksi) FOR 16 GA. AND HEAVIER, IN ACCORDANCE WITH ICC ESR-3064P

ksi) FOR 18 GA. AND LIGHTER, ASTM A653 SS GRADE 50 CLASS I OR 3

OR APPROVED EQUAL. GALVANIZING SHALL COMPLY WITH ASTM AI23

A.S.T.M. A36 SPECIFICATION. HOLES FOR ANCHOR BOLTS SHALL BE MAXIMUM

RAL LUMBER SHALL BE GRADED IN ACCORDANCE WITH RAL LUMBER SHALL BE DOUGLAS FIR-LARCH OF THE DF #I DF #I DF #2 COM. DEX. -1450f CONST. GRADE RAL PLYWOOD SHALL CONFORM TO PS-1-95, AND SHALL PLYWOOD, FIBER SHEATHING, PARTICLE BOARD AND SLUE-LAM TIMBER MUST BE IDENTIFIED BY A GRADE RTIFICATE OF INSPECTION ISSUED BY AN APPROVED VIDE MATERIAL SPECS. ON PLANS. C.B.C. SECTION 2304 RAL PLYWOOD SHALL BE MANUFACTURED WITH EXTERIOR NFORM TO PSI-95. EACH SHEET SHALL BE IDENTIFIED . GRADE TRADEMARK SEE DRAWINGS FOR GRADE AND MEMBERS SHALL NOT BE CUT FOR PIPES, ETC. UNLESS EARING ON WOOD SHALL HAVE STANDARD CUT WASHERS CREWS ARE USED. PRE DRILL HOLE FOR SHANK THE ER AS THE SHANK, AND 75% SHANK DIAMETER FOR THE PRTION. SCREWS SHALL BE INSERTED WITH THE TURN OF NGERS SHALL BE "SIMPSON", OR AN APPROVED EQUAL. ND SHALL CONFORM TO 2019 CALIFORNIA BUILDING BE OF HOT DIPPED ZING-COATED GALVANIZED STEEL BE DRIVEN PERPENDICULAR WHERE POSSIBLE INSTEAD | 8d | 2 I/2" | 0.131" 2 8d 2 1/2" 0.131" 5/8" POLT MIN. TYP. ROOF SHEATHING 3 1/2" 0.162" 16d 3 1/2" 0.135' 3" 0.131" 16d 3 1/2" 0.135' 24" O.C. 16d 3 1/2" 0.162 HUNG MEMBER 22ga. x 2" STRAP L4x3x1/4 ANGLE 8d | 2 1/2" | 0.131" 1/2"Φ ROD 6" O.C. | 8d | 2 1/2" | O.131" | 16d | 3 1/2" | 0.162" 3" 0.131" ADER, THO PIECES, 16" O.C. 16d 3 1/2" 0.162" O PLATE, TOENAIL 3 8d 2 1/2" 0.131" 3" 0.131" 4 8d 2 1/2" 0.131" 8d 2 1/2" 0.131" 3" 0.131" 2 8d 2 1/2" 0.131" 3" 0.131" 3 8d 2 1/2" 0.131" | 12" O.C. | 16d | 3 1/2" | O.162" 3" 0.131" RDER & BEAM, FACE 24" O.C. 20d 4" 0.192" 3" 0.131" 2 | 16d | 3 1/2" | 0.162' 3 | 10d | 3" | 0.148' ND JOIST, FACE NAIL | 3 | 16d | 3 1/2" | 0.162' 3 | 16d | 3 1/2" | 0.162" 3" 0.131" S ITEMS REQUIRE SPECIAL INSPECTION PER CURRENT .TI HIT **"HY-200 V3"** EPOXY SYSTEM ICC ES-ESR #4868 ILL HOLE 1/8" LARGER THAN ALL THREAD/REBAR DIA. N HOLE OUT THROUGHLY FOR INSERT EPOXY ANCHOR M, INSTALL PER MFR'R SPECS. "SPECIAL INSPECTION



COLORADO RIVER STATION REMODEL 1111 BAILEY AVENUE NEEDLES, CA. 92363 FOR THE SAN BERNARDINO COUNTY SHERIFF'S DEPARTMENT WBSE #: 10.10.1220 CAFM #: NEE004 CIP #: 21-030 TANG STRUCTURAI ENGINEERS, INC 7950 CHERRY AVE. SUITE 114 Bus: (909) 429-0450 FONTANA, CA. 92336 Email: cheetang-se.com THESE STRUCTURAL DRAWINGS ARE THE PROPERTY OF TANG STRUCTURAL NGINEERS, INC. THE USE OF THESE STRUCTURAL PLANS IS RESTRICTED AND IMITED TO THE ORIGINAL SITE TO WHICH THEY HAVE BEEN PREPARED FOR. THESE WHOLE OR IN PART WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ENGINEER OF RECORD. COPYRIGHT 2004 **KEYNOTES** REFERENCE PLAN

marks

architects

73121 fred waring drive

LAHUS (II)

PROJECT NUMBER

3022006

DRAWING NUMBER

 $\Box$ 

November 03, 2022

REVISIONS

55d (36") MIN.

<sup>T</sup>MASONRY, U.N.O

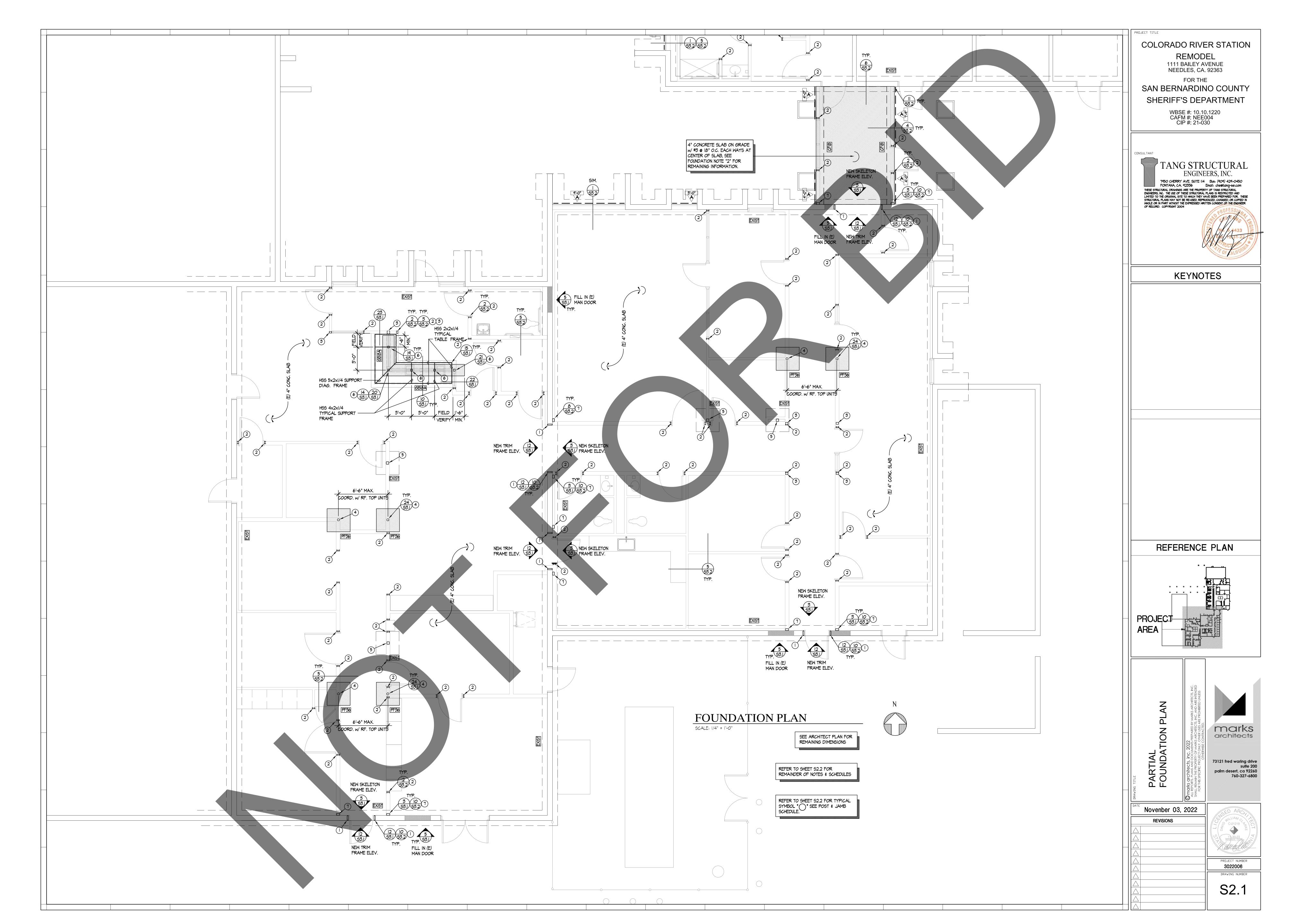
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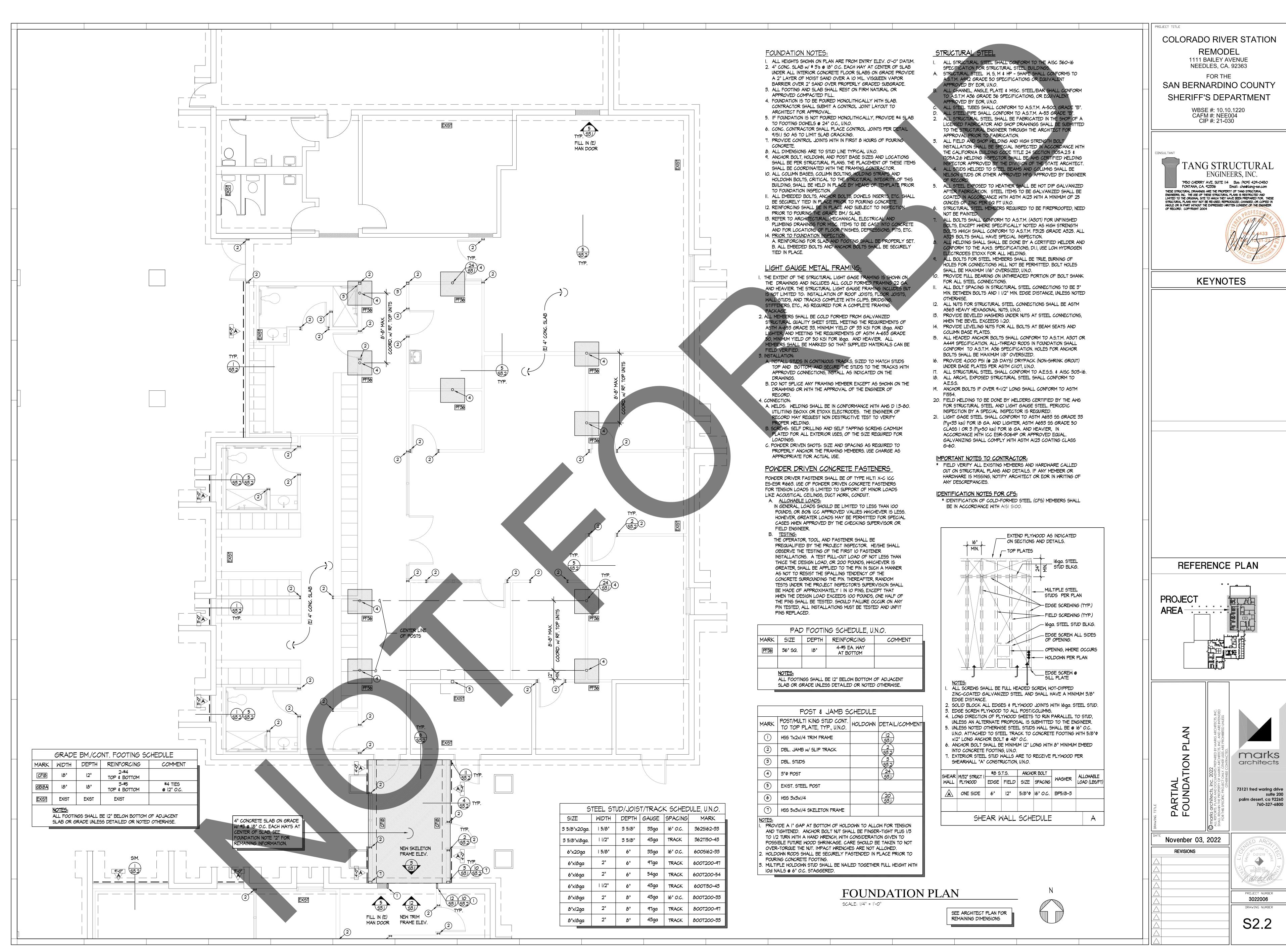
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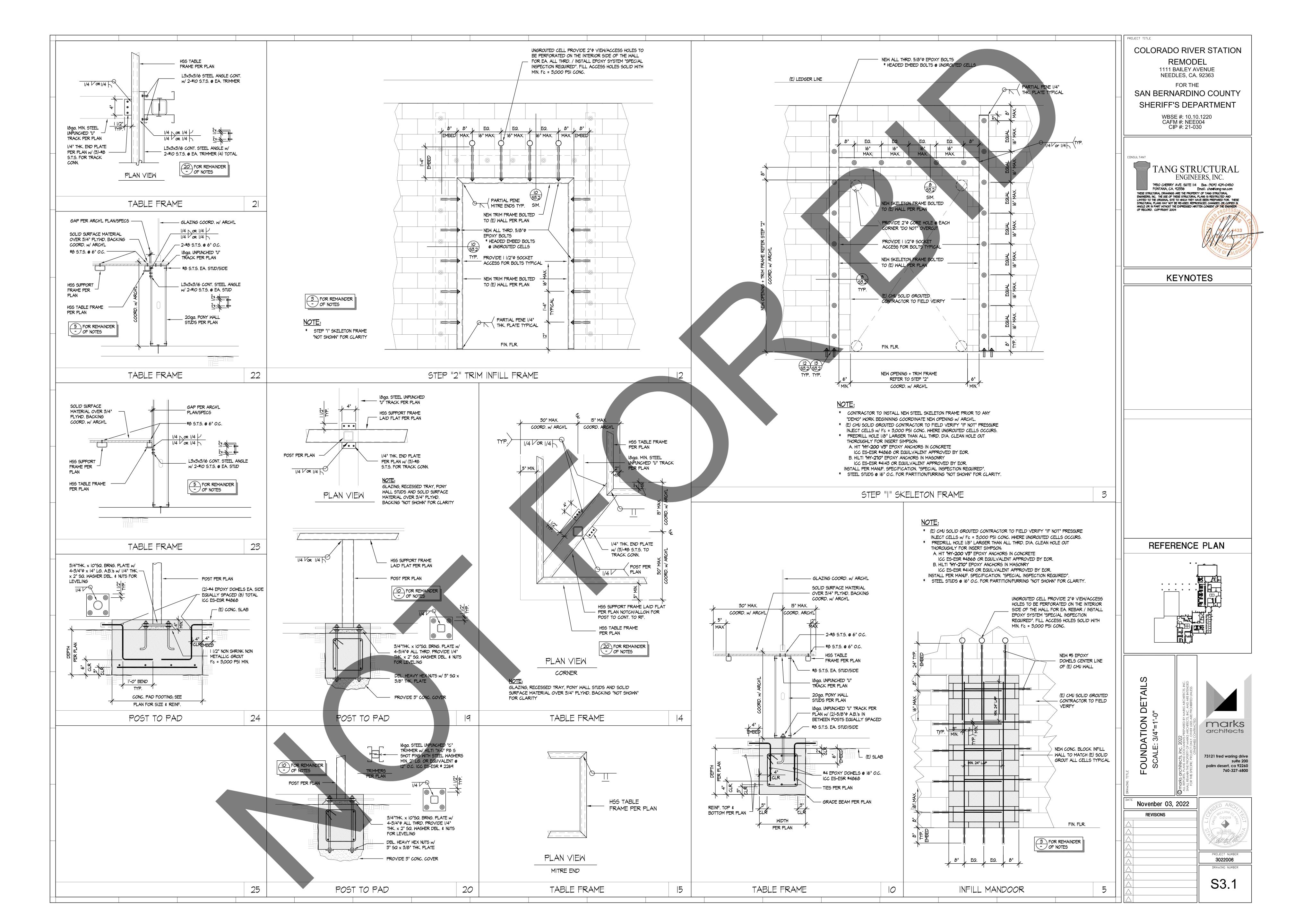
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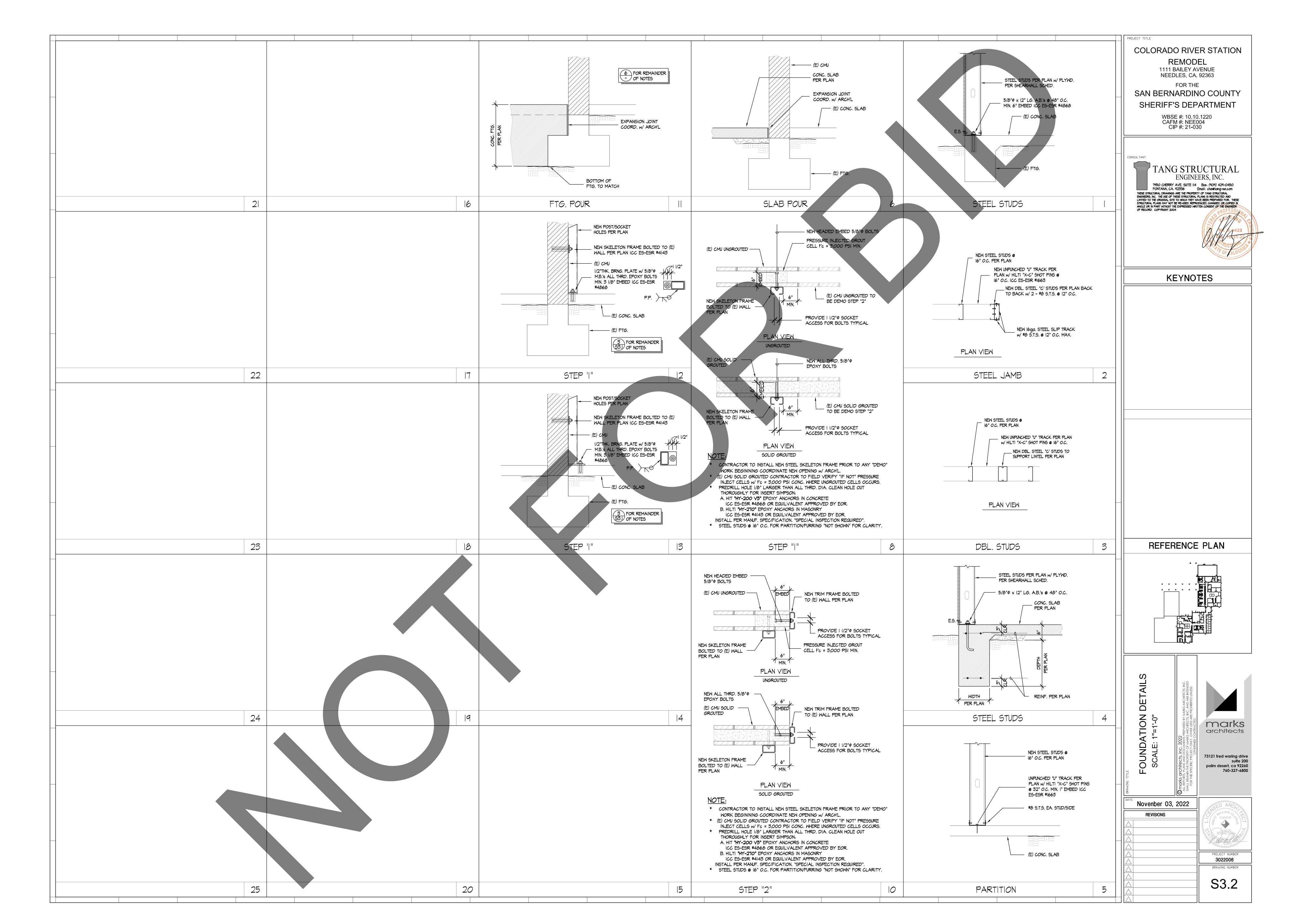
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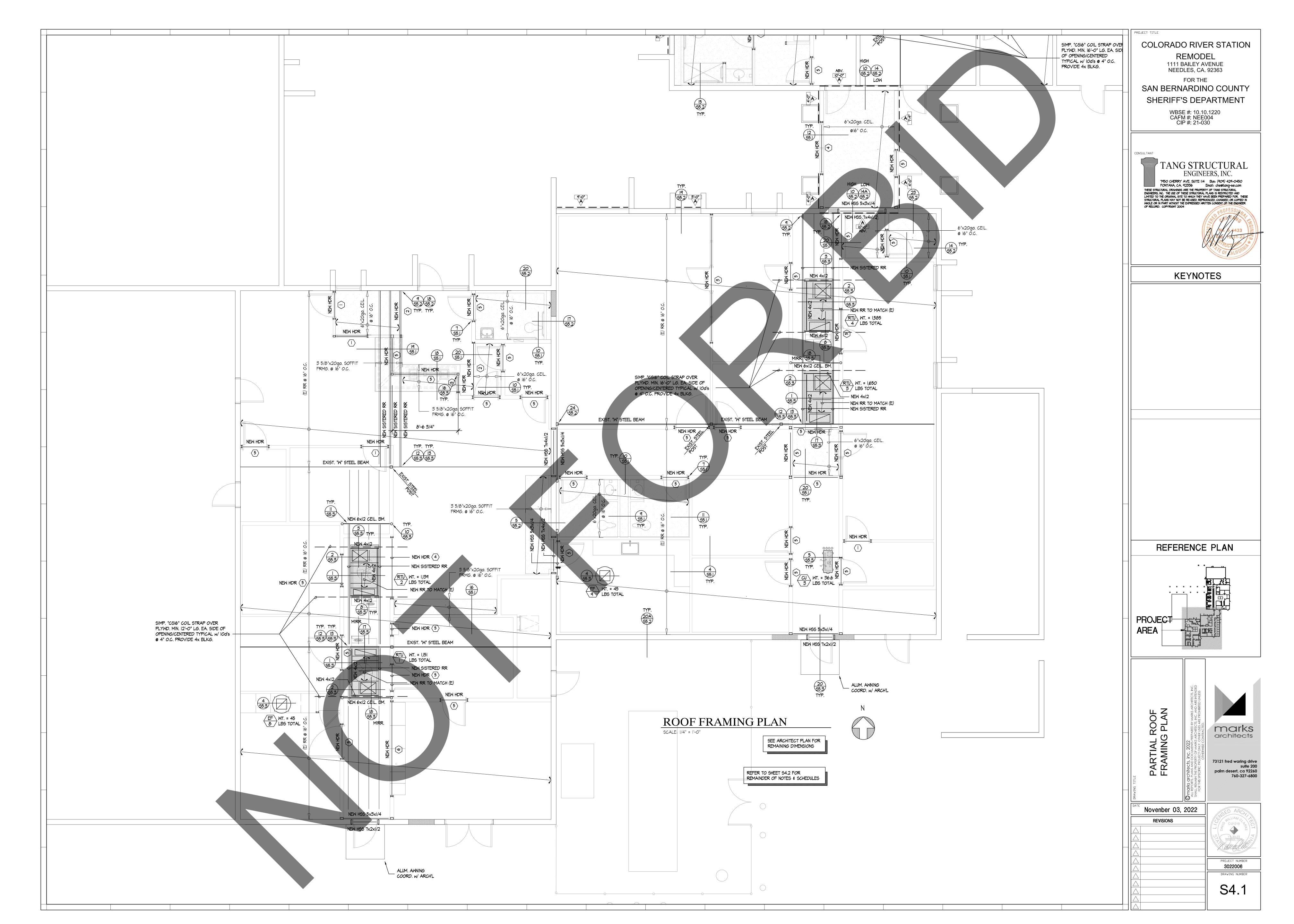
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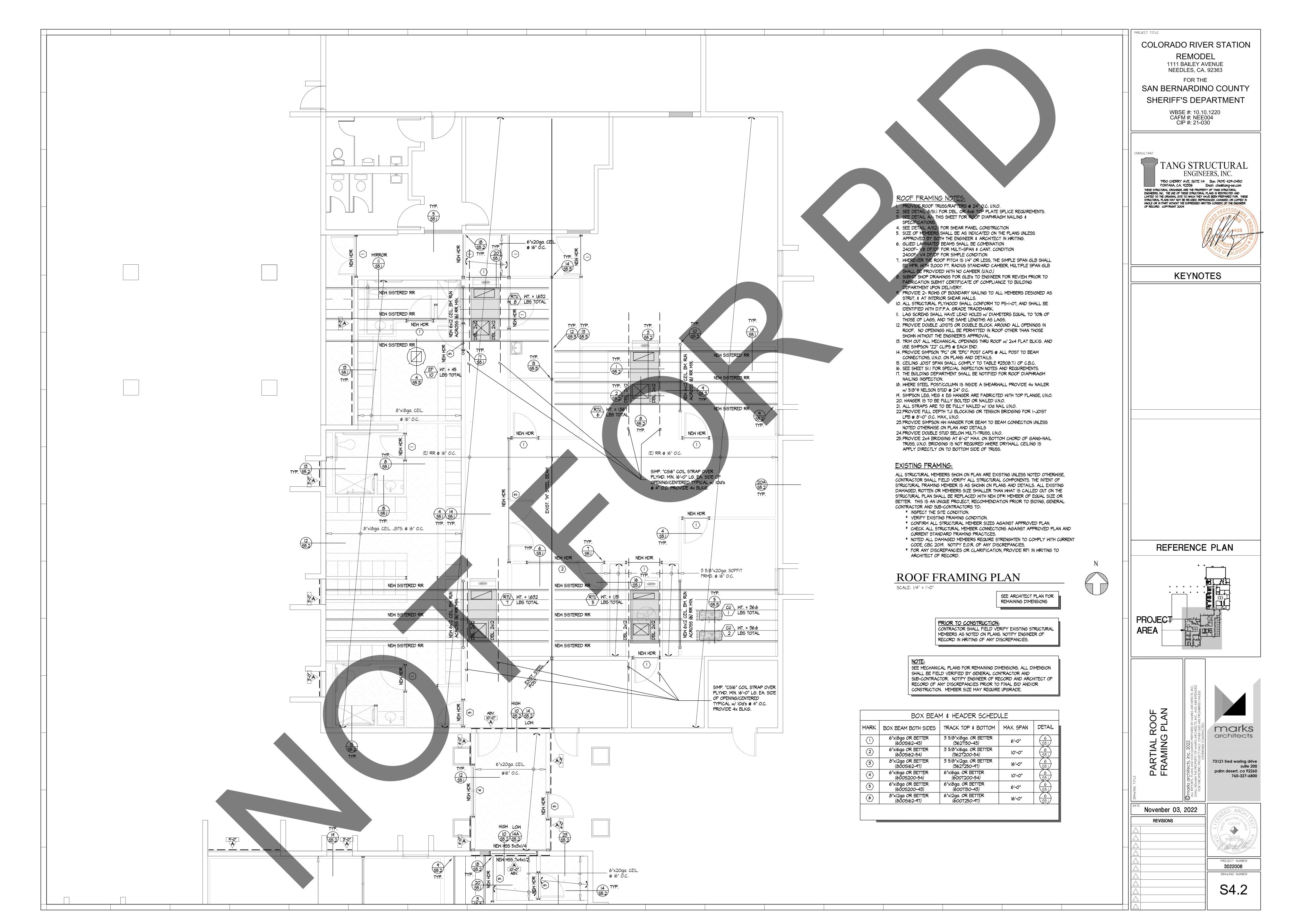


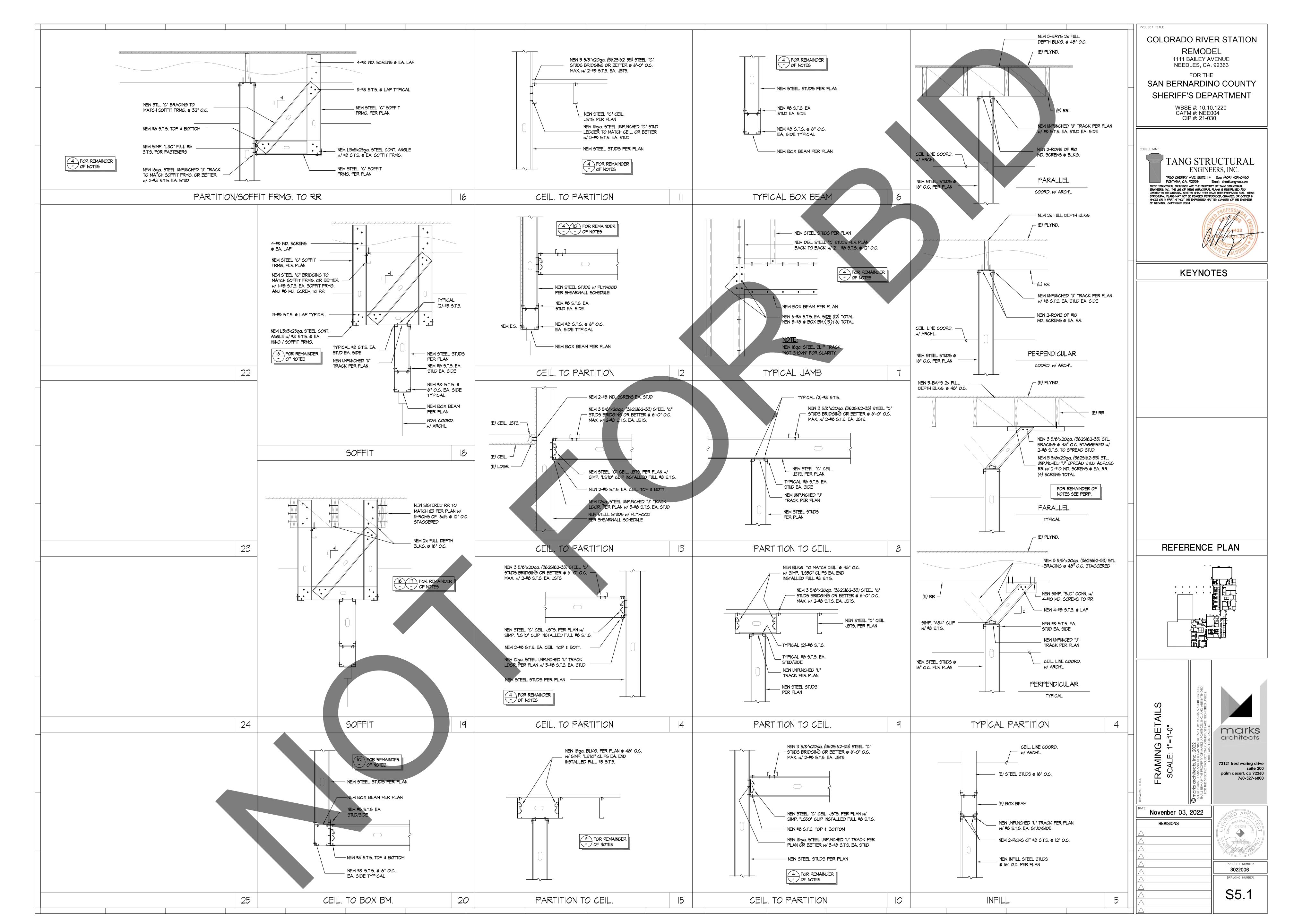


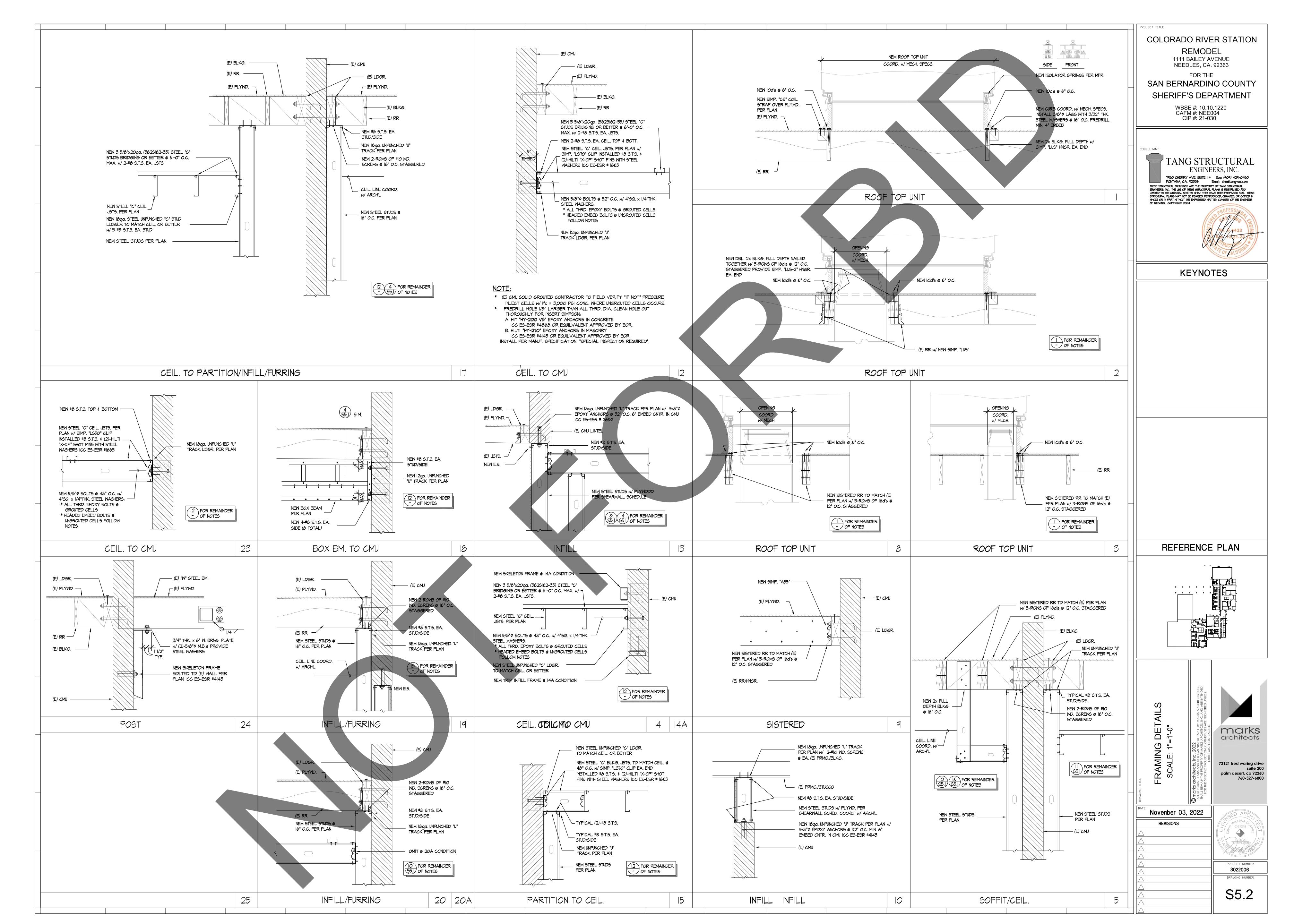


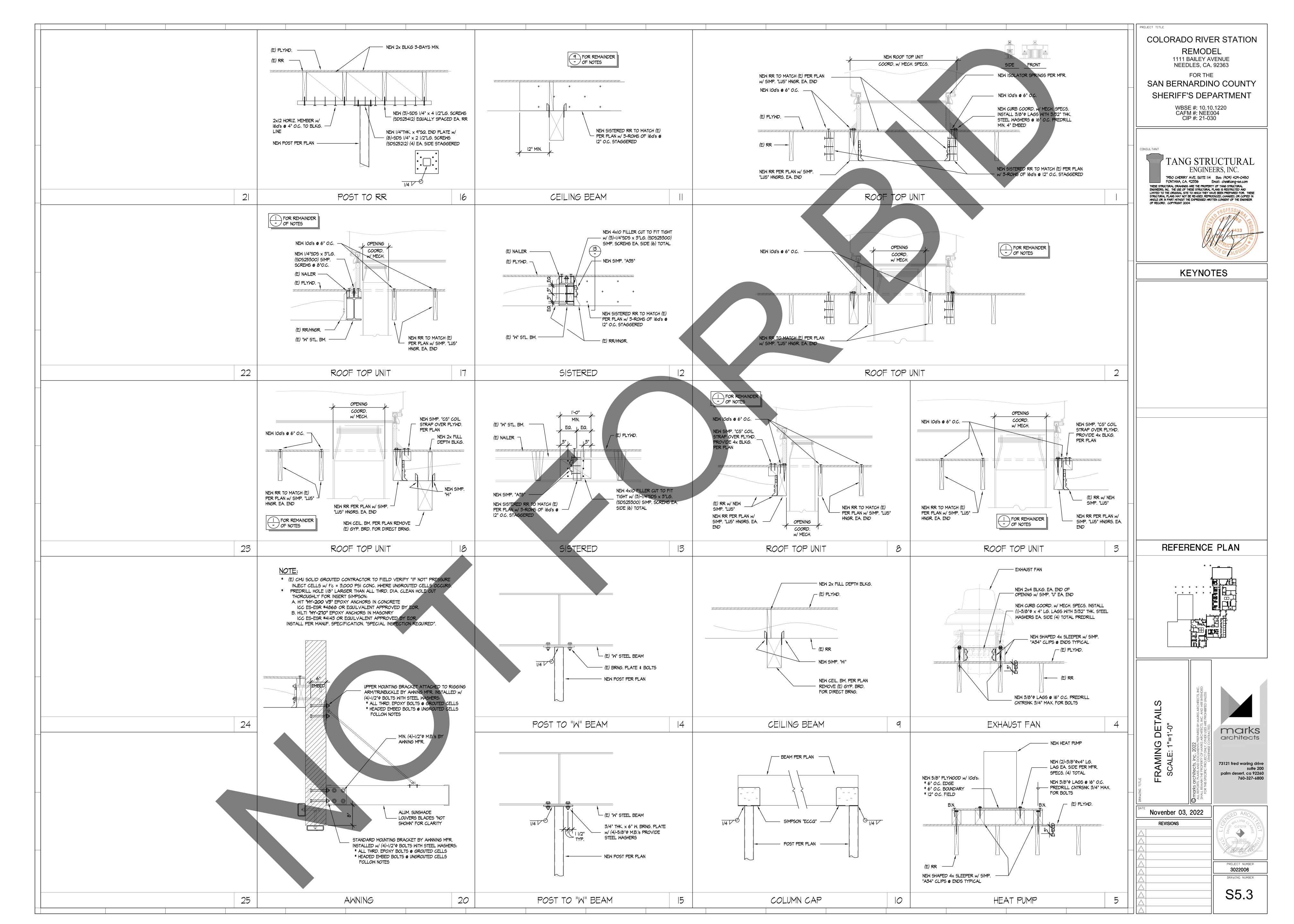












# **APPLICABLE CODES AND STANDARDS:**

INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

2019 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 1

2019 CALIFORNIA BUILDING CODE (CBC) CALIFORNIA CODE OF REGULATIONS (CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 2) TITLE 24, PART 2 (2018 INTERNATIONAL BUILDING CODE (IBC) W/ 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA ELECTRICAL CODE (CEC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 3 ( 2017 NATIONAL ELECTRICAL CODE (NEC) W/ 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA ENERGY CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 6

2019 CALIFORNIA FIRE CODE (CFC)

CALIFORNIA CODES OF REGULATIONS (CRR) TITLE 24 PART 9 ( 2018 INTERNATIONAL FIRE CODE (IFC) W/ 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA EXISTING BUILDING CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 10 ( 2018 INTERNATIONAL EXISTING BUILDING CODE (IEBC))

2019 CALIFORNIA REFERENCES STANDARDS CODE CALIFORNIA DOE OF REGULATIONS (CCR) TITLE 24, PART 12

**MECHANICAL SYMBOL LIST** NOT ALL SYMBOLS MAY APPLY SYMBOL: DESCRIPTION: DIRECTION OF AIR FLOW · 🖛 . FLEXIBLE DUCT MANUAL VOLUME DAMPER RISE IN DIRECTION OF AIR FLOW DROP IN DIRECTION OF AIR FLOW **DUCT DOWN** SUPPLY/OUTSIDE AIR DUCT SECTION RETURN AIR DUCT SECTION EXHAUST/RELIEF AIR DUCT SECTION 4-WAY DIFFUSER WITH BLANKOFF IN ONE DIRECTION AIR TERMINAL PROPERTIES SYMBOL NECK SIZE/CFM OPPOSED BLADE DAMPER (REFER TO SCHEDULE) PARALLEL BLADE DAMPER (REFER TO SCHEDULE) CARBON MONOXIDE SENSOR CARBON DIOXIDE SENSOR OCCUPANCY SENSOR PRESSURE SENSOR/MONITOR PRESSURE SENSOR (DUCT MOUNTED) THERMOSTAT/SENSOR

	MECHANICAL ABBREVIATION KEY
ABBR:	DESCRIPTION:
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
С	COMMON
CO	CLEANOUT
CFSD	CONTROL/FIRE/SMOKE DAMPER
DPG (0-2")	DIFFERENTIAL PRESSURE GAUGE (RANGE)
DPS	DIFFERENTIAL PRESSURE SWITCH
EA	EXHAUST/RELIEF AIR
ECFSD	EXISTING CONTROL FIRE SMOKE DAMPER
EFD	EXISTING FIRE DAMPER
EFSD	EXISTING FIRE SMOKE DAMPER
EP	ELECTRICAL TO PNEUMATIC VALVE
ESD	EXISTING SMOKE DAMPER
FD	FIRE DAMPER
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FSD	FIRE/SMOKE DAMPER
MA	MIXED AIR
MV	MIXING VALVE
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
OA	OUTSIDE AIR
PS	PRESSURE SWITCH
RA	RETURN AIR
SA	SUPPLY AIR
SCCR	SHORT CIRCUIT CURRENT RATING
SD	SMOKE DAMPER
TAB	TERMINAL AIR BOX
TD	TRANSFER DUCT
TYP	TYPICAL
UC-1	DOOR UNDERCUT BY OTHERS (1" TYPICAL)
UON	UNLESS OTHERWISE NOTES

	CONTRACTOR ABBREVIATION KEY	
ABBR:	DESCRIPTION:	
C.M.	CONSTRUCTION MANAGER	
E.C.	ELECTRICAL CONTRACTOR	
F.P.C.	FIRE PROTECTION CONTRACTOR	
G.C.	GENERAL CONTRACTOR	
M.C.	MECHANICAL CONTRACTOR	
P.C.	PLUMBING CONTRACTOR	
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR	
V.C.	VENTILATION CONTRACTOR	

### **TAB PRE-DEMOLITION NOTES:**

- 1. BEFORE ANY DEMOLITION WORK IS BEGUN A COMPLETE AIR BALANCE TEST SHALL BE PERFORMED BY THE TESTING, ADJUSTING AND BALANCING (TAB) CONTRACTOR ON EXISTING AIR HANDLERS AND EXHAUST FANS SERVING THE AREAS AFFECTED BY CONSTRUCTION. EQUIPMENT TO BE DEMOLISHED DOES NOT REQUIRE TESTING. PROVIDE AIR BALANCE TESTING ONLY ON EQUIPMENT THAT WILL CONTINUE TO BE USED TO SERVE
- RENOVATED AREAS AFTER THE CONSTRUCTION PHASE IS COMPLETED. PROVIDE DUCT TRAVERSE READINGS AT LOCATIONS DESIGNATED ON THE DRAWINGS BY THE "AIRFLOW MEASUREMENT SYMBOL". THOSE MEASUREMENTS SHALL BE INCLUDED IN THE PRE DEMOLITION REPORT AND SHALL BE DESIGNATED WITH THE IDENTIFIER AS MARKED ON THE DRAWINGS. READINGS SHALL BE DESIGNATED WITH THE ROOM NAME AND NUMBER AS MARKED ON THE DRAWINGS. IF FLOOR PLANS DO NOT HAVE UNIQUE ROOM NAMES AND NUMBERS, TAB CONTRACTOR SHALL INCLUDE FLOOR PLAN WITH UNIQUE NUMBER DESIGNATIONS ASSIGNED TO READINGS THAT MATCH THOSE USED IN THE FINAL PRE-DEMOLITION REPORT. DRAWINGS THAT ARE HAND-MARKED WITH RED INK ARE
- ACCEPTABLE, PROVIDED THEY ARE LEGIBLE. 3. IN THE EVENT A DUCT TRAVERSE LOCATION AS MARKED ON THIS PLAN IS INACCESSIBLE FOR MEASUREMENT. THE TAB CONTRACTOR SHALL PERFORM THE TRAVERSE AT AN ALTERNATE LOCATION OR SHALL TAKE MULTIPLE DUCT TRAVERSES AND/OR READINGS AS REQUIRED TO DETERMINE THE AIRFLOW READING WHERE THE DUCT TRAVERSE SYMBOL IS SHOWN. IN THE EVENT TRAVERSES ARE TAKEN AT ALTERNATE LOCATION(S), TAB CONTRACTOR SHALL INCLUDE A DRAWING THAT SHOWS THE LOCATIONS WHERE THE
- ACTUAL MEASUREMENTS WERE TAKEN. 4. TAKE A DUCT STATIC PRESSURE READING AT EACH LOCATION WHERE A DUCT TRAVERSE READING IS TAKEN AND INCLUDE IN THE FINAL PRE-DEMOLITION TAB REPORT.
- TAB CONTRACTOR SHALL COMPILE AND SUBMIT FOUR COPIES OF THE FINAL PRE-DEMOLITION REPORT WITHIN 10 WORKING DAYS AFTER THE FIELD MEASUREMENTS ARE COMPLETED. FINAL TAB REPORT SHALL BE SUBMITTED FOR REVIEW TO THE ARCHITECT/ENGINEER. TESTING SHALL INCLUDE ALL ITEMS REQUIRED IN THE

SPECIFICATIONS.

### **TAB POST-CONSTRUCTION NOTES:**

- 1. AFTER CONSTRUCTION ACTIVITIES ARE COMPLETE, TESTING, ADJUSTING (TAB) AND BALANCING CONTRACTOR SHALL REBALANCE AIR HANDLING UNITS AND EXHAUST FANS AS REQUIRED TO ACHIEVE THE NEW AIRFLOW VALUES SHOWN ON THE CONSTRUCTION
- 2. AREAS SERVED BY THIS EQUIPMENT WHICH WERE NOT RENOVATED SHALL BE RE-
- BALANCED TO THE AIRFLOW RATES MEASURED BEFORE THE RENOVATION OCCURRED (REFER TO THE FINAL PRE- DEMOLITION REPORT). 3. IF DUCT TRAVERSE LOCATION AS MARKED ON THE DRAWINGS IS INACCESSIBLE FOR MEASUREMENT, THE TAB CONTRACTOR SHALL PERFORM THE TRAVERSE AT AN ALTERNATE LOCATION OR SHALL TAKE MULTIPLE DUCT TRAVERSES AND/OR GRILLE READINGS AS REQUIRED TO DETERMINE THE FLOW RATE. IN THE EVENT TRAVERSES ARE TAKEN AT AN
- ALTERNATE LOCATION(S), TAB CONTRACTOR SHALL INCLUDE A DRAWING THAT SHOWS THE LOCATIONS WHERE THE ACTUAL MEASUREMENTS WERE TAKEN. 4. A DUCT STATIC PRESSURE READING SHALL BE TAKEN AT EACH LOCATION WHERE A DUCT
- TRAVERSE READING IS TAKEN AND SHALL BE INCLUDED IN THE FINAL POST-CONSTRUCTION 5. TAB CONTRACTOR SHALL COMPILE AND SUBMIT COPIES OF THE FINAL POST-
- CONSTRUCTION TAB REPORT AS REQUIRED BY SECTION 23 05 93. 6. THE FINAL POST CONSTRUCTION REPORT SHALL INCLUDE ALL ITEMS REQUIRED IN THE SPECIFICATIONS.

# **RENOVATION NOTES:**

- 1. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF, VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
- 2. NOT ALL EXISTING PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTI WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK. FIELD VERIFY THE AVAILABLE CLEARANCES FOR PIPING BEFORE FABRICATION, RISES AND
- DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS. EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF THEIR WORK AND
- SHALL NOTIFY THE CONSTRUCTION MANAGER PRIOR TO BIDDING IF OTHER UTILITIES ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO THEIR AREA OF WORK.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CUTTING, REMOVAL AND PATCHING OF ROOFS, WALLS, AND FLOORS ASSOCIATED WITH WORK BY ALL CONTRACTORS. CONTRACTORS SHALL NOTIFY THE GC OF AFFECTED AREAS PRIOR TO BIDDING.
  6. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF
- CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO WHERE EXISTING MECHANICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, PIPING IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING
- SYSTEMS, OR REWORK EXISTING MECHANICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING. 8. PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT
- 9. OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEMS ARE INSTALL
- 10. MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR TIE IN AND SWITCHOVER. DRAIN SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY DRAINING SYSTEM. MAKE CHANGEOVER TO NEW SYSTEMS WITH MINIMUM OUTAGE. T AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMEN

### **PIPING GENERAL NOTES:**

- 1. THE SIZE OF BRANCH PIPING TO TERMINAL HEATING DEVICES AND COILS SHALL BE 3/4" UNLESS NOTED OTHERWISE.
- 2. PIPE DRAIN LINES FROM EQUIPMENT TO NEAREST FLOOR DRAIN. 3. INSTALL ALL REFRIGERANT LIQUID AND SUCTION PIPING SIZED PER EQUIPMENT MANUFACTURER RECOMMENDATIONS.

# **VENTILATION GENERAL NOTES:**

- 1. UNLESS NOTED OTHERWISE. THE SIZE OF EACH BRANCH DUCT TO AN AIR TERMINAL SHALL MATCH THE INLET SIZE. 2. ALIGN TEMPERATURE SENSORS WITH LIGHT SWITCHES AND WHEN IN CLOSE PROXIMITY TO
- EACH OTHER. 3. EXISTING AIR INLET AND OUTLET CFM SHOWN ON DRAWINGS ARE FROM EXISTING DRAWINGS, AND ARE FOR REFERENCE ONLY. CONTRACTOR SHALL USE PRE-BALANCE VALUES, AND NOT EXISTING CFM SHOWN ON DRAWINGS.

# **GENERAL NOTES:**

- 1. DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF
- OTHERS WILL PERMIT. 2. DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FR ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR
- PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES. 3. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK, DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING
- WITH FABRICATION OR EQUIPMENT ORDERS. 4. REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER
- 5. ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR
- EXPENSE TO OTHERS. 6. EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOG AUDIO/VISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CI MOUNTED DEVICES, OTHER THAN SPRINKLERS.
- ACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS
- RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND
- IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.
- 0. SEAL ALL WALL AND ROOF PENETRATIONS AIRTIGHT WHERE PIPING PENETRATE. . CAULK ALL PIPE PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION,
- FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.

  12. WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL
- RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT.

  B. EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS,
- T BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES. MAINTAIN A MINIMUM WORKING CLEARANCE OF 3'-6" IN FRONT OF ALL ELECTRICAL EQUIPMENT REQUIRING MAINTENANCE, INSPECTION, AND TESTING INCLUDING BUT NOT D TO PANELS. DISTRIBUTION PANELS, SWITCHBOARDS, MOTOR CONTROL CENTERS,
- FORMERS, EQUIPMENT DISCONNECTS AND STARTERS. MAINTAIN THE DEDICATED ELECTRICAL EQUIPMENT SPACE DEFINED BY THE WIDTH / DEPTH LECTRICAL EQUIPMENT MEASURED FROM THE FLOOR TO A HEIGHT 6'-0" ABOVE THE EQUIPMENT OR THE STRUCTURAL CEILING, WHICHEVER IS LOWER. SYSTEMS FOREIGN TO THE ELECTRICAL DISTRIBUTION SYSTEM ARE NOT ALLOWED IN THE DEDICATED
- ELECTRICAL SPACE INCLUDING; PIPING, ETC. 7. PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT.
- 3. DO NOT SUPPORT EQUIPMENT, PIPING, OR FROM METAL DECKING OR OTHER NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS. CONTRACTOR TO PROVIDE REQUIRED ACCEPTANCE TESTING BY A CERTIFIED ACCEPTANCE TEST TECHNICIAN PER T24 ENERGY REQUIREMENTS - REFER TO SHEET M0.4

PAGES 20-22

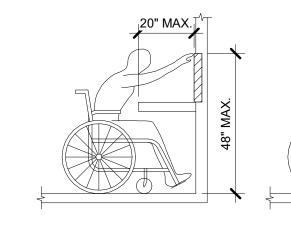
PROJECT ALTITUDE:

913.00 FT. ABOVE SEA LEVEL

#### **MECHANICAL DESIGN CONDITIONS:** BASED ON WEATHER DATA FOR: {NEEDLES, CA} **DESIGN CONDITIONS: SUMMER:** 125°F DRY BULB, 73°F WET BULB (CEC 0.1%) WINTER: 35°F DRY BULB (CEC 0.6%) TYPICAL ROOM SETPOINTS: **SUMMER DESIGN:** 74°F DRY BULB, NO HUMIDITY REQUIREMENT

WINTER DESIGN: 70°F DRY BULB, NO HUMIDITY REQUIREMENT SUMMER SETBACK: 80°F DRY BULB, NO HUMIDITY REQUIREMENT WINTER SETBACK: 64°F DRY BULB, NO HUMIDITY REQUIREMENT REFER TO CONTROL DIAGRAMS FOR ROOM SPECIFICS.

MECHANICAL SHEET INDEX MECHANICAL COVERSHEET SCHEDULES **ENERGY COMPLIANCE ENERGY COMPLIANCE** OVERALL DEMOLITION FLOOR PLAN - MECHANICAL OVERALL DEMOLITION ROOF PLAN - MECHANICAL ZONING PLAN - MECHANICAL OVERALL FLOOR PLAN - MECHANICAL ENLARGED FLOOR PLAN - SOUTH - MECHANICAL ENLARGED FLOOR PLAN - NORTH - MECHANICAL ROOF PLAN - MECHANICAL DETAILS



**INSTALL ABOVE COUNTER** 

DEVICE AT 44" ABOVE

FINISHED FLOOR.

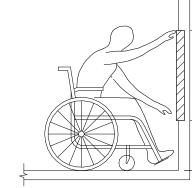
INSTALL ABOVE COUNTER

ADA GUIDELINES - FRONT ACCESS

DEVICE AT 40" ABOVE

FINISHED FLOOR.

20"-25" MAX.



**INSTALL DEVICE AT 18"** 

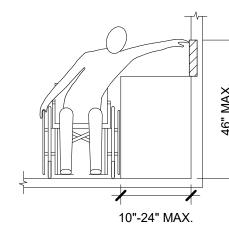
ABOVE FINISHED FLOOR.

10" MAX. INSTALL DEVICE AT 44"

ABOVE FINISHED FLOOR.

ADA GUIDELINES - SIDE ACCESS

DETAILS



INSTALL DEVICE AT 42" ABOVE FINISHED FLOOR.

REVISIONS

**DECEMBER 15, 2022** 

COLORADO RIVER STATION REMODEL

1111 BAILEY AVENUE

NEEDLES, CA. 92363

SAN BERNARDINO COUNTY

SHERIFF'S DEPARTMENT

WBSE #: 10.10.1220

CAFM #: NEE004

**KEY NOTES** 

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REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN

APPROVAL AND PARTICIPATION OF IMEG CORP.

CIP #: 22-030

ADA STANDARDS FOR ACCESSIBLE DESIGN

**GRAND TOTAL: 13** 

3022006 DRAWING NUMBER

marks

architects

73121 fred waring drive

palm desert, ca 92260

### PACKAGED ROOFTOP UNIT SCHEDULE - AIR COOLED HEAT PUMP

NOTES:
1.SINGLE POINT CONNECTION FOR POWER EXHAUST AND ROOF TOP UNIT.
2.TOTAL OPERATING WEIGHT INCLUDES UNIT, CURB, ACCESSORIES AND UNIT MOUNTED POWER EXHAUST. DUCT MOUNTED ACCESSORIES AND EQUIPMENT ARE NOT INCLUDED. CONTRACTOR IS RESPONSIBLE FOR ALL CHANGES REQUIRED DUE TO ROOFTOP UNIT HEAVIER THAN THE BASIS OF DESIGN AT NO ADDITIONAL COST. 3.PROVIDE SHAFT GROUNDING IF REQUIRED IN THE MOTOR SPECIFICATION 23 05 13.

4.LAT LISTED IS AT LEAVING SIDE OF COOLING COIL.
5.REFER TO CONTROL DRAWINGS FOR DESCRIPTION OF CONTROL TYPE.

6.STAGES: DIG = DIGITAL SCROLLS, VFD = INVERTER, # = NUMBER OF COMPRESSOR STAGES 7. PROVIDE 7 DAY PROGRAMMABLE THERMOSTAT.

		MINIM	JM		SUPPLY	Y FAN (NOTE 3	3)						UN	IT ELECTRICAL	_ DATA						(	COOLING COIL -	DX				HEATING	COIL - DX				
TAG	NOMINA		E AIR NO. O	F	EXT S.P.				NO. OF POWER						DISCONNECT(S)	CONTROLLE	R STARTER(S)		EAT DB	EAT WB	LAT DB °F	LAT WB °F	SENSIBLE	TOTAL	AMB TEMP		LAT DB °F	TOTAL			FILTER	DISCHARGE
NAME   AREA SERV	/ED TONS	(CFN	l) FANS	CFM TOTAL	_ IN W.C.	RPM	BHP EACH	MHP EACH	CONNECTIONS	VOLTAGE	PHASES	FLA	MCA	MOCP	BY (NOTE A) TYPE (NOTE E	B) BY (NOTE A)	TYPE (NOTE B)	SCCR	°F	°F	(NOTE 4)	(NOTE 4)	MBH	MBH	°F	EAT DB °F	(NOTE 4)	MBH	AMB TEMP °F	: EER	TYPE	DIRECTION
RTU-1 EVIDENCE OF	FFICE 6	445	1	1780	1.3	1356	0.7	1	1	480	3	18 A	21 A	30 A	EC F	MFR	SS	5,000 A	80.0	63.5	53.6	52.8	49.77	53	125	66.6	90.6	53	37	6.4	MERV 13	DOWN
RTU-2 BUSINESS RECORDS OF		220	1	1460	1.1	1185	0.5	1	1	480	3	17 A	19 A	25 A	EC F	MFR	SS	5,000 A	83.1	64.4	53.4	52.7	45.56	48	125	65.5	90.4	46.1	37	6.5	MERV 13	DOWN
RTU-3 MARINE OF	FICE 10	315	1	2950	1.4	1457	1.1	2	1	480	3	27 A	31 A	45 A	EC F	MFR	VFD	5,000 A	80.0	63.5	53.7	52.8	82.28	89	125	66.9	105.4	85	37	6.2	MERV 13	DOWN
RTU-4 BRIEFING	RM 8	350	1	2460	1.1	1255	0.7	1	1	480	3	23 A	26 A	35 A	EC F	MFR	VFD	5,000 A	82.1	64.1	55.1	53.5	70.8	73	125	65	97.7	72.5	37	6.7	MERV 13	DOWN
RTU-5 CAPTAIN OF	FICE 6	340	1	1540	1.2	1228	0.5	1	1	480	3	18 A	21 A	30 A	EC F	MFR	SS	5,000 A	85.0	64.9	53.4	52.7	51.06	53	125	63.4	90.6	53.2	37	6.5	MERV 13	DOWN
RTU-6 MULTIPURP RM	OSE 8	525	1	2375	0.9	1029	0.4	1	1	480	3	20 A	24 A	35 A	EC F	MFR	VFD	5,000 A	70.7	63.4	50.5	49.6	56.4	69	125	66.8	99.5	72.4	37	6.6	MERV 13	DOWN
RTU-7 LOCKER F	RM 10	625	1	2070	1.0	1120	0.5	1	1	480	3	25 A	29 A	45 A	EC F	MFR	VFD	5,000 A	93.9	67.3	52.9	52.3	87.54	88	125	56.4	94	84.8	37	6.6	MERV 13	DOWN
RTU-8 COUNCIL I	RM 10	295	1	4000	1.4	1457	1.1	2	1	480	3	27 A	31 A	45 A	EC F	MFR	VFD	5,000 A	80.0	63.5	53.7	52.8	82.28	89	125	66.9	105.4	85	37	6.2	MERV 13	DOWN
 						·					·									·				·								

# PACKAGED ROOFTOP UNIT SCHEDULE - AIR COOLED HEAT PUMP - CONT.

			POWERED EXH	AUST (NOTE	1 AND 3)			ı	MAX DIMENSION	S		WEIGHT (NOTE 2	2)	AUTOMATIC			
 TAG NAME	NO. OF FANS	CFM TOTAL	EXT S.P. IN W.C.	RPM	BHP EACH	MHP EACH	CURB TYPE (NOTE G)	LENGTH	WIDTH	HEIGHT	UNIT WEIGHT	CURB WEIGHT	(TOTAL) OPERATING	SMOKE DETECTION SHUTOFF	MANUFACTURER	MODEL	NOTES
RTU-1	1	1,780	0.25	1278	0.23	1	MFR	82"	42.375"	50.5"	900	251	1151	YES	Aaon, Inc.	RQ-006-3-V-E609-000	1, 2, 3, 4, 5, 7
RTU-2	1	1,460	0.22	1122	0.15	1	MFR	82"	42.375"	50.5"	888	251	1139	YES	Aaon, Inc.	RQ-005-3-V-E609-000	1, 2, 3, 4, 5, 7
RTU-3	1	2,950	0.82	1095	1.69	2	MFR	82"	79"	44"	1373	277	1650	YES	Aaon, Inc.	RN-010-3-0-E609-000	1, 2, 3, 4, 5, 7
RTU-4	1	2,460	0.62	929	1.01	2	MFR	82"	79"	44"	1308	277	1585	YES	Aaon, Inc.	RN-008-3-0-E609-000	1, 2, 3, 4, 5, 7
RTU-5	1	1,540	0.23	1159	0.17	1	MFR	82"	42.375"	50.5"	900	251	1151	YES	Aaon, Inc.	RQ-006-3-V-E609-000	1, 2, 3, 4, 5, 7
RTU-6	1	2,375	0.62	929	1.01	2	MFR	82"	79"	44"	1290	277	1567	YES	Aaon, Inc.	RN-008-3-0-E609-000	1, 2, 3, 4, 5, 7
RTU-7	1	2,070	0.49	800	0.62	1	MFR	82"	79"	44"	1355	277	1632	YES	Aaon, Inc.	RN-010-3-0-E609-000	1, 2, 3, 4, 5, 7
RTU-8	1	4,000	0.49	800	0.62	1	MFR	82"	79"	44"	1355	277	1632	YES	Aaon, Inc.	RN-010-3-0-E609-000	1, 2, 3, 4, 5, 7

# SPLIT SYSTEM UNIT SCHEDULE

1. INDOOR UNIT POWERED BY OUTDOOR UNIT.

2. PROVIDE MAXI BLUE CONDENSATE PUMP TO FAN COIL UNIT.
3. REFER TO MANUFACTURE RECOMMENDED REFRIGERANT PIPE SIZES.
4. PROVIDE WIRED THERMOSTAT.
5. STAND BY UNIT.

0.017110	or order.																								
					INDOOR UNIT									<b>OUTDOOR UNI</b>	IT						ELEC	CTRICAL			
			COOLING	N	MAX. DIMENSIOI	NS									OUTSIDI	E UNIT MAX. DIM	ENSIONS			DISC	CONNECT	CONTROLLE	ER/ STARTER		
TAG NAM	AREA SERVED	CFM	MBH	LENGTH	WIDTH	HEIGHT	WEIGHT	MODEL	TAG NAME	SEER	MCA	MOCP	VOLTAGE	PHASES	HEIGHT	LENGTH	WIDTH	WEIGHT	MODEL	BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)	SCCR	MANUFACTURER	NOTES
SFC-1A	IDF	813	22000	42.72	14.72	10.44	36.6	LSN243HLV3	CU-1A	21.5	19	30	208	1	32'-10 5/64"	37'-4 59/64"	13'-0"	135.4	LSU243HLV3	EC	F	MFR	5000	LG Electronics	1, 2, 3, 4
SFC-1B	IDF	813	22000	42.72	14.72	10.44	36.6	LSN243HLV3	CU-1B	21.5	19	30	208	1	32'-10 5/64"	37'-4 59/64"	13'-0"	135.4	LSU243HLV3	EC	F	MFR	5000	LG Electronics	1, 2, 3, 4, 5
SFC-2	ELECT RM	813	22000	42.72	14.72	10.44	36.6	LSN243HLV3	CU-2	21.5	19	30	208	1	32'-10 5/64"	37'-4 59/64"	13'-0"	135.4	LSU243HLV3	EC	F	MFR	5000	LG Electronics	1, 2, 3, 4
SFC-3	ELECT/DATA	813	22000	42.72	14.72	10.44	36.6	LSN243HLV3	CU-3	21.5	19	30	208	1	32'-10 5/64"	37'-4 59/64"	13'-0"	135.4	LSU243HLV3	EC	F	MFR	5000	LG Electronics	1, 2, 3, 4

## **FAN SCHEDULE**

1.PROVIDE SHAFT GROUNDING AS REQUIRED IN THE MOTOR SPECIFICATION 23 05 13. 2. CEILING EXHAUST FAN INTERLOCKED WITH LIGHT SWITCH.

3. EXHAUST FAN INTERLOCKED WITH ROOF TOP UNIT.
4. EF-11 TO BE INTERLOCKED WITH RTU-1. PROVIDE AUXILIARY SWITCH TO TURN ON/OFF EF-11 WHEN RTU-1 IS NOT OPERATING DURING NIGHT OR WEEKENDS.

													ELECTRIC	AL (NOTE 1)	·	·							
			S.P. IN.	FAN RPM		DRIVE	MAX. AMCA	BACKDRAFT	CURB TYPE					DISCO	ONNECT	CONTROLLE	R/ STARTER						
TAG NAME	AREA SERVED	CFM	W.C.	(NOTE F)	FAN CLASS	TYPE	SONES	DAMPER TYPE	(NOTE G)	BHP	MHP	VOLTAGE	PHASES	BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)	SCCR	WEIGHT	MANUFACTURER	MODEL		NOTES	
EF-1	TOILET 102	100	0.30	1172	CEILING	DIRECT	0.8	Y	MFR	0	0	120	1	EC	NF	MFR	5000	25	GREENHECK	SP-A190	1,2		
EF-2	TOILET 123	100	0.30	1172	CEILING	DIRECT	0.8	Y	MFR	0	0	120	1	EC	NF	MFR	5000	25	GREENHECK	SP-A190	1,2		
EF-3	TOILET 124	100	0.30	1172	CEILING	DIRECT	0.8	Y	MFR	0	0	120	1	EC	NF	MFR	5000	25	GREENHECK	SP-A190	1,2		
EF-4	TOILET/SHOWER 143	150	0.30	720	CEILING	DIRECT	1	Y	MFR	0	0	120	1	EC	NF	MFR	5000	32	GREENHECK	SP-A290	1,2		
EF-5	TOILET/SHOWER 141	150	0.30	720	CEILING	DIRECT	1	Y	MFR	0	0	120	1	EC	NF	MFR	5000	32	GREENHECK	SP-A290	1,2		
EF-6	TOILET/SHOWER 140	150	0.30	720	CEILING	DIRECT	1	Y	MFR	0	0	120	1	EC	NF	MFR	5000	32	GREENHECK	SP-A290	1,2		
EF-7	LOCKER RM 139	225	0.30	900	DOWNBLAST	DIRECT	2	Y	MFR	0.03	0.1	120	1	EC	NF	MFR	5000	45	GREENHECK	G-60-VG	1,3		
EF-8	ARMORY 113	150	0.30	1725	DOWNBLAST	DIRECT	4.6	Y	MFR	0.02	0.06	120	1	EC	NF	MFR	5000	36	GREENHECK	G-60-VG	1,2		
EF-9	BREAKROOM 126	120	0.30	1661	DOWNBLAST	DIRECT	4.2	Y	MFR	0.02	0.06	120	1	EC	NF	MFR	5000	36	GREENHECK	G-60-VG	1,3		
EF-10	LOCKER RM 142	100	0.30	1585	DOWNBLAST	DIRECT	3.7	Y	MFR	0.02	0.06	120	1	EC	NF	MFR	5000	22	GREENHECK	G-60-VG	1,3		
EF-11	EVIDENCE STORAGE 112	300	0.30	1725	DOWNBLAST	DIRECT	4.6	Y	MFR	0.02	0.06	120	1	EC	NF	MFR	5000	36	GREENHECK	G-90-VG	1,3, 4		
EF-12	SERVICE RM 117	150	0.30	1725	DOWNBLAST	DIRECT	4.6	Y	MFR	0.02	0.06	120	1	EC	NF	MFR	5000	36	GREENHECK	G-60-VG	1,2		
EF-13	JAN CLOSET 134	100	0.30	1172	CEILING	DIRECT	0.8	Υ	MFR	0	0	120	1	EC	NF	MFR	5000	25	GREENHECK	SP-A190	1,2	7	

# AIR TERMINAL SCHEDULE

GENERAL NOTES: 1.CONTRACTOR SHALL DETERMINE PROPER BORDER TYPE TO MATCH CEILING CONSTRUCTION.

2.REFER TO DRAWINGS FOR NECK SIZE. ALL BRANCH DUCTWORK TO AIR TERMINALS SHALL BE NECK SIZE UNLESS NOTED OTHERWISE. 3. PROVIDE SQUARE TO ROUND ADAPTER AS NECESSARY. ALL SUPPLY DIFFUSER ARE 4-WAY THROW PATTERN UNLESS INDICATED OTHERWISE ON PLANS.

TAG	FACE SIZE (IN.)		BORDER			VOLUME DAMPER			
NAME	(NOTE 2)	TYPE	(NOTE 1)	MATERIAL	FINISH	REQUIRED	MANUFACTURER	MODEL	NOTES
CD-1	24x24	MODULAR CORE	LAY-IN	STEEL	WHITE	NO	TITUS	MCD	
CD-2	12x12	PERFORATED FACE	SURFACE MOUNT	ALUMINUM	WHITE	NO	TITUS	PMC	
CD-3	22.5	ROUND	LAY-IN	STEEL	WHITE	NO	TITUS	TMRA	MINIMUM OF THREE STEPDOWN DIFFUSION CONES
EG-1	24x24	35 DEGREE DEFLECTION	LAY-IN	STEEL	WHITE	NO	TITUS	350FL	
EG-2	12x12	35 DEGREE DEFLECTION	SURFACE MOUNT	STEEL	WHITE	NO	TITUS	350FL	
RG-1	24x24	PERFORATED FACE	LAY-IN	STEEL	WHITE	NO	TITUS	PAR	
RR-1	INLET + 2	35 DEGREE DEFLECTION	SURFACE MOUNT	STEEL	WHITE	NO	TITUS	350FL	
TA-1	24x24	PERFORATED FACE	LAY-IN	STEEL	WHITE	NO	TITUS	PAR	

A. DISCONNECT AND CONTROLLER STARTER FURNISHED AND INSTALLED BY:

MFR = MANUFACTURER EC = ELECTRICAL CONTRACTOR.

E. NO EQUIPMENT SHALL BE SELECTED ABOVE 90% OF MOTOR NAME

F. MUST BE WITHIN +/- 10% OF SCHEDULED RPM.

SAC = SOUND ATTENUATOR CURB

**SCHEDULE GENERAL NOTES:** 

MC = FURNISHED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR. MFR/EC = FURNISHED LOOSE BY MANUFACTURER INSTALLED BY ELECTRICAL CONTRACTOR.

ATC = AUTOMATIC TEMPERATURE CONTROL CONTRACTOR

B. DISCONNECT TYPE: F = FUSED NF = NON-FUSED

C. CONTROLLER STARTER TYPE: FV = FULL VOLTAGE WYE = WYE-DELTA SS = SOLID STATE (SOFT START)

MS = MANUAL STARTER
VFD = VARIABLE FREQUENCY DRIVE
VFD/B = VARIABLE FREQUENCY DRIVE WITH BYPASS

D. FAN RPM SHALL NOT EXCEED 110% OF SCHEDULED VALUE, WITH THE SCHEDULED WHEEL TYPE. SUBSTITUTION OF BI OR BIA FANS FOR FC IS ACCEPTABLE IF EFFICIENCY IS NOT LOWER.

PLATE RATING.

G. CURB TYPE:
MFR = STANDARD CURB BY MANUFACTURER
GC = BY GENERAL CONTRACTOR

COLORADO RIVER STATION

REMODEL

1111 BAILEY AVENUE

NEEDLES, CA. 92363

FOR THE

SAN BERNARDINO COUNTY

SHERIFF'S DEPARTMENT

WBSE #: 10.10.1220 CAFM #: NEE004 CIP #: 22-030

**KEY NOTES** 

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marks architects 73121 fred waring drive

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INTERVIEW ROOM

Office space

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

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	dicates a Fan Power System									re-			
	made in Table O have beer												
*****************	ONAL REMARKS					~~							?
his table i	includes remarks made by t	the permit	t applicant	to the Authority Ha	iving Jurisdictio	n.							
CHIEF SHIP CHANGE	SYSTEM SUMMARY (DRY cuctions: Complete the follo			* A	npliance with m	andatory r	eauiremen	ts found in	§110.1 an	d §110.2(a)	and presc	riptive real	uirements
ound in §	140.4(a), §140.4(b) and §14	40.4(k) or	§141.0(b)2	for alterations.		364 C 344 GL W. 300 C 500 C	- 2 1 1 <b>-</b> 3 1 2 1 0 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NOT - NOW THE SECURITIONS		222012(0)			
01	n Equipment Sizing (includ	es air con		condensers, neat p		naces and	05	rs) 06	07	08	09	10	11
										anical Sch			
							Hea	ating Outp	ıt <sup>2,3</sup>	Cooling	Output <sup>2,3</sup>	Load Calc	ulations <sup>3,</sup>
Name or	Equipment Category per			nt Type per		est Size lable¹	Dou		Supp.	Sensible		Total	Total Sensible
tem Tag	<u>Tables 110.2</u>		Tables 110	0.2 & <u>Title 20</u>		0.4(a)	Per Design	Rated	Heating	Per Design	Rated	Heating	Cooling
							(kBtu/h)	(kBtu/h)	Output (kBtu/h)	(kBtu/h)	(kBtu/h)	Load (kBtu/h)	Load (kBtu/h)
RTU-1	Unitary heat pumps (no elec. resistance)	Air	cooled, pac	kage (3 phase)	Ye	s	55.1	53	0	50.3	51.28	55.1	50.3
RTU-2	Unitary heat pumps (no elec. resistance)	Air	cooled, pac	kage (3 phase)	Ye	s	48.6	46.1	0	46.2	46.32	48.6	46.2
RTU-3	Unitary heat pumps (no elec. resistance)	Air	cooled, pac	kage (3 phase)	Ye	s	90.5	85	0	82.5	85.31	90.5	82.5
RTU-4	Unitary heat pumps (no elec. resistance)	Air	cooled, pac	kage (3 phase)	Ye	s	80.2	72.5	0	70.08	73.49	80.2	70.08
able Cont	tinued	25			(-3)(								
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	nical Systems (Created 09/2020)									CALIF	ORNIA ENER	GV COMMISS	ION (M)
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SUPPLY F	AN Supply		1	2,946	ВНР	1.1	)	None used					
3011211	Зарру			2,540	Din.	31.1	Calculate	ed Adjustme	nt (in H <sub>2</sub> O)				
							Fully due	ted return,	exhaust		2	946	
EXHAUST	FAN Exhaust		1	0	ВНР	1.69	350	ed Adjustme					
	1			8 8	8				2 '				
Total Su	stem Design Supply Airflov	v (CEVV).	2,946	Total	l System Design	(B)Hp.	2.79		laximum <sup>Q</sup>	ystem Fan	Power (p)	HP:	
1 - 1 32W	Yannan A			840000 SM	Economiz	1.00	ned per §1		System Fa		047 000000		
ystem Na		nomizer:	13073	ed Temperature	Controls:		and (m)	300	Type:		F810740000000	Air Volum	ne
01	02		03	04	05	06		07	<b>D</b>			08	
Fan Name	I Fan Function		Qty	Maximum Design Supply Airflow	HP Unit <sup>2</sup>	Design			Pressure I	Orop Adjus		N TO SAILS	
Item Ta	15		- 24000	(CFM)	5-08-7-9	HP		Device		Design	Airflow th	rough Devi	ice (CFM)
										1 8			

None used

Total System D	esign supply A	Airflow (CFM):	2,457		TOTAL SYS	stem Des			1.73			stem Fan Power (B)HP:
System Name:	RTU-5	Economizer:	Fix	ed Temperat	ure	Econon Contro	4.10	Design	ned per §1 and (m)	192	stem Fan pe:	Variable Air Volume
01	02		03	04		05	(	)6		07		08
Fan Name or	Fan Fur	nction	Qty	Maximum De Supply Airfl		HP Unit²		sign		Fan Power P	essure Dr	op Adjustment - <u>Table 140.4-B</u>
Item Tag			Cont	(CFM)			'	IP .		Device		Design Airflow through Device (C
able Continued												
CA Building Energy I	fficiency Stand	ards - 2019 Nonr	esidential Co	mpliance: <u>http</u>	://www.e	energy.ca.ş	gov/title:	24/201	9standards			September
TATE OF CALIFORNIA  Mechanical S  IRCC-MCH-E (Created  CERTIFICATE OF C	09/2020)											CALIFORNIA ENERGY COMMISSION NRCC-N
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able Continued 08		09		10	11 I	12	13		14	15		16
08		Mechanical \		363	827	1833831	13	Ev	= T.CV/	er §120.1(c)4		10
Space Name or		ivieciianicai			of	10000	Require		Required			DCV or Occupant Sensor Controls
Item Tag	Occu	pancy Type <sup>4</sup>	FI	oor show	orboade	# of people <sup>5</sup>	Min O		/linimum CFM	Provided pe Design CFM	ner	\$120.1(d)3, \$120.1(d)5 & §120.2(e)
ARMORY	85	storage for dry	· .	11	Sirets		31.65	Constant	CIW	0	DCV Occ Sensor	NA: Not required per \$120.1(d):  NA: Not required space type
GEAR STORAGE	Locker roo	om (all others)	1	.26			18.9		31.5	35	Sensor	NA: Space exhaust is > design ventilation rate exception
GLAN STONAGE	LOCKETTO	om (an others)		.20			100		31.3	33	Occ Sensor	NA: Not required space type
REPORT WRITING	Offic	ce space	1	.47		$\Delta$	22.05	7		ō	DCV	NA: Not required per §120.1(d)
			*	14.036 20.000				2		553 9	Occ Sensor	Provided per §120.1(d)5
CORRIDOR	Co	orridor	2	24			33.6			0	DCV	NA: Not required per §120.1(d):
		STREET, ST. ST. ST.	- 4	4			500-000			2	Occ Sensor	Provided per §120.1(d)5
EVIDENCE OFFICE	Offic	ce space	1	.63			24.45			0	DCV	NA: Not required per §120.1(d)
+	Songli X 2 C		4							100	Occ Sensor	Provided per §120.1(d)5
EVIDENCE SECUR		storage for do	3	112			46.8			0	DCV	NA: Not required per §120.1(d)3
	ma	aterials					1				Occ	NA: Not required space type
Đ											Sensor	1000117611545155555555777

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Mechanical S NRCC-MCH-E (Created											CALIFORNIA ENERGY COMMIS	SION (
CERTIFICATE OF C	OMPLIANCE							i.c.			N	RCC-MCI
	COLORADO RIVER STATIO								t Page:		Pa	ige 14 of
Project Address:	1111 BAILEY AVENUE NEE	DLES, CA. 9	2363					Date P	repared:			2022-10
17	Total System Required Mi	n OA CFM			148.0	05	18		Ventilation fo	or this Sys	stem Complies?	Yes
	nd Hotel/ Motel Ventilation										Service Annual Control of the Contro	
	04			05				06			07	
						7		5,52,0000		Air Fi	tration per §120.1(c) and §14	1.0(b)2 <sup>2</sup>
System Name:	RTU-4	System De CFM Air Flo		3	390		System De Transfer A		0	Provide	ed per §120.1(c) (NR & Hotel)	Motel)
08	09	·	10	11		12	13	14	15		16	
	Mechanic	al Ventilation			).1(c)	3 <sup>3</sup>		Exh. Vent. p	er §120.1(c)4			115.2 (2010)
Space Name or Item Tag	Occupancy Type <sup>4</sup>		Floor Area (ft²)	showerhe		# of people <sup>5</sup>	Required Min OA CFM	Required Minimum CFM	Provided per Design CFM		OCV or Occupant Sensor Cont §120.1(d)3, §120.1(d)5 & §12	
DDIETING DOOM	M. deine						75.75			DCV	Provided per §120.1(c	)4
BRIEFING ROOM	Multiuse assembly		505				75.75		0	Occ Sensor	Provided per §120.1(c	)5
STORAGE	Occupiable storage for	dry	17				2.55		0	DCV	NA: Not required per §120	).1(d)3
STORAGE	materials		**	4			2.33			Occ Sensor	NA: Not required space	type
WATCH COMMAI	Computer Lab		187				28.05		0	DCV	NA: Not required per §120	).1(d)3
D			15,54	10			0.000.000			Occ Sensor	NA: Not required space	type
VOLUNTEER OFFI	Office space		78				11.7		0	DCV	NA: Not required per §120	).1(d)3
+	17.1117.7. IF. 1877.		(3),70	4:			ST.U.S			Occ Sensor	Provided per §120.1(c	)5
CORRIDOR	Corridor		147				22.05		0	DCV	NA: Not required per §120	).1(d)3
CORRIDOR	Corridor		147				22.03			Occ Sensor	Provided per §120.1(c	15

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	(Created 09/2020) TE OF COMPLIANCE								ORNIA ENER		CC-M
Project Na	me: COLORADO RIVER ST	ATION REMODEL			Report	Page:				P	age 3
Project Ad	dress: 1111 BAILEY AVENUI	E NEEDLES, CA. 92363			Date P	repared:				- 7	2022-1
Dry Syster	n Equipment Sizing (include	es air conditioners, condensers	, heat pumps, VRF	, furnaces and	unit heate	rs)					
01	02	03		04	05	06	07	08	09	10	1
					Equip	ment Sizing	g per Mech	nanical Sche	dule (kBtu	ı/h) §140.4	(a&b
					Hea	ating Outpu	ut <sup>2,3</sup>	Cooling (	Dutput <sup>2,3</sup>	Load Cald	ulatio
Name or Item Tag	Equipment Category per <u>Tables 110.2</u>	Equipment Type per Tables 110.2 & Title 2	0	nallest Size Available¹ §140.4(a)	Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	To Sens Coo Lo (kBt
RTU-5	Unitary heat pumps (no elec. resistance)	Air cooled, package (3 pha	se)	Yes	53.1	53.2	0	51.06	53.23	53.1	51.
RTU-6	Unitary heat pumps (no elec. resistance)	Air cooled, package (3 pha	se)	Yes	55.6	72.4	0	56.4	68.8	55.6	68
					_						
		Air cooled, package (3 pha smallest size, within the availa		Yes desired equipm	88 nent line, ne	84.8	0 meet the 0	87.54 design heati	88.38	88 oling loads	26/7/2000
<sup>1</sup> FOOTNO building po <sup>2</sup> It is comi <sup>3</sup> If equipm <sup>4</sup> Authority	(no elec. resistance)  OTES: Equipment shall be the er §140.4(a). Healthcare faction practice to show rated to the show rated to the show in the sheating only, leave con the sheating only, leave con the sheating only as	smallest size, within the availa ilities are excepted. output capacity on the equipme ooling output and load blank. If k for load calculations used for	ble options of the ontions of the ontions of the ontions of the ontions of the options of the op	desired equipm ible cooling out ing only, leave 40.4(b).	nent line, ne tput comes heating ou	cessary to from speci, tput and lo	meet the o	design heati	2010/05/07/05/06	200	26/7/2000
<sup>1</sup> FOOTNO building po <sup>2</sup> It is comi <sup>3</sup> If equipm <sup>4</sup> Authority	(no elec. resistance)  OTES: Equipment shall be the er §140.4(a). Healthcare faction practice to show rated to the show rated to the show in the sheating only, leave con the sheating only, leave con the sheating only as	smallest size, within the availa ilities are excepted. output capacity on the equipme oling output and load blank. If	ble options of the ontions of the ontions of the ontions of the ontions of the options of the op	desired equipm ible cooling out ing only, leave 40.4(b).	nent line, ne tput comes heating ou	cessary to from speci, tput and lo	meet the o	design heati eet tables.	2010/05/07/05/06	200	of the
<sup>1</sup> FOOTNO building po <sup>2</sup> It is comi <sup>3</sup> If equipm <sup>4</sup> Authority <b>Dry Syster</b>	(no elec. resistance)  OTES: Equipment shall be the er §140.4(a). Healthcare faction practice to show rated to ent is heating only, leave con Having Jurisdiction may as a Equipment Efficiency (other	smallest size, within the availa cilities are excepted. output capacity on the equipme coling output and load blank. If k for load calculations used for ler than Package Terminal Air (	ble options of the op	desired equipm ible cooling out ing only, leave 40.4(b). C) and Package	nent line, ne tput comes heating ou	cessary to from speci tput and lo	meet the of fication shad blank.	design heati	ing and co	oling loads	of the
<sup>1</sup> FOOTNO building po <sup>2</sup> It is comi <sup>3</sup> If equipm <sup>4</sup> Authority <b>Dry Syster</b>	(no elec. resistance)  OTES: Equipment shall be the er §140.4(a). Healthcare faction practice to show rated to ent is heating only, leave con Having Jurisdiction may as a Equipment Efficiency (other	smallest size, within the availa cilities are excepted. output capacity on the equipme coling output and load blank. If k for load calculations used for ler than Package Terminal Air (	ble options of the op	desired equipm ible cooling out ing only, leave 40.4(b). C) and Package	nent line, ne tput comes heating out	cessary to from speci tput and lo	meet the of fication shad blank.	eet tables.	ing and cod	de	of the
1 FOOTNO building po 2 It is come 3 If equipm 4 Authority Dry System 01	(no elec. resistance)  OTES: Equipment shall be the er 5140.4(a). Healthcare faction practice to show rated on the sheating only, leave conviously devices and the sheating faction may ask to be a sheat sheating faction may ask to be a sheat sheating faction may ask to be a sheat faction of the sheat fa	smallest size, within the availabilities are excepted. Soutput capacity on the equipment of the color of the	ble options of the or ent schedule. Sens equipment is cool compliance per §1. Conditioners (PTA) 04 Heating N	desired equipmatible cooling outing only, leave 40.4(b).  C) and Package 05  Mode Min Efficien Required p Tables 110.	nent line, ne tput comes heating out	ccessary to from speci tput and lo Heat Pump 06	meet the offication shad blank.  os (PTHP))  07	eet tables.  Co	08 Dolling Mod lin Efficien equired peables 110.	de	of the
1 FOOTNC building po ? It is comma 3 If equipm 4 Authority Dry Syster 01 Name or Item Tag	(no elec. resistance)  OTES: Equipment shall be the er <u>5140.4(a)</u> . Healthcare faction practice to show rated on the sheating only, leave control of the sheating only, leave control of the sheating only of the sheating only of the sheating only of the sheat sheating only of the sheat she	smallest size, within the availabilities are excepted. Soutput capacity on the equipment of the color of the	ble options of the op	desired equipmatible cooling out ing only, leave 40.4(b).  C) and Package 05  Mode Min Efficien Required problem 110.  Title 20	nent line, ne tput comes heating out	from speci, tput and lo Heat Pump 06 esign iciency	meet the offication sh ad blank.  (PTHP))  07  Efficience	design heati eet tables.	08 Dooling Mod lin Efficien dequired peables 110 Title 20	de	of th

TATION REMODEL JE NEEDLES, CA. 9236  1  1  w (CFM): 1,537  pnomizer: Fix	1,537	BHP  System Design	0.53	Report Page: Date Prepared:  None used  Calculated Adjustment (in H <sub>2</sub> O)  Fully ducted return/ exhaust  Calculated Adjustment (in H <sub>2</sub> D)	1,537
1 1 w (CFM): 1,537	1,537 0	BHP System Design	0.17	Date Prepared:  None used  Calculated Adjustment (in H <sub>2</sub> O)  Fully ducted return/ exhaust	202
1 w (CFM): 1,537	O	BHP System Design	0.17	Calculated Adjustment (in H <sub>2</sub> O)  Fully ducted return/ exhaust	1,537
w (CFM): 1,537	Tota	System Design		320	1,537
			(a)ua I		
			/DVIID		S
nomizer:1 Fix	ed Temperature				m Fan Power (B)HP:
	ica remperature	Economize Controls:	er Desig	ned per §140.4(e) and (m)  System Fan Type:	Variable Air Volume
03	04	05	06	07	08
Qty	Maximum Design Supply Airflow (CPM)	HR Unit <sup>2</sup>	Design HP		Adjustment - <u>Table 140.4-B</u> Design Airflow through Device
1	1,821	ВНР	0.42	None used  Calculated Adjustment (in H <sub>2</sub> O)	
1	Q	ВНР	0.44	Fully ducted return/ exhaust	1,821
				Calculated Adjustment (in H <sub>2</sub> O)	
w (CFM): 1.821	Tota	l System Design	(B)HP:	0.86 Maximum Syste	m Fan Power (B)HP:
					Variable Air Volume
03	04	05	06	07	08
	Maximum Design Supply Airflow	HP Unit <sup>2</sup>	Design HP	Fan Power Pressure Drop	Adjustment - <u>Table 140.4-B</u>
	1  w (CFM): 1,821  pnomizer: Fix	1 1,821  1 0  W (CFM): 1,821 Total  conomizer: Fixed Temperature  03 04	1 1,821 BHP  1 0 BHP  W (CFM): 1,821 Total System Design Economizer: Fixed Temperature Controls:  03 04 05	1 1,821 BHP 0.42  1 0 BHP 0.44    1 0 BHP   0.44	(CFM)  1 1,821 BHP 0.42 None used  Calculated Adjustment (in H <sub>2</sub> O)  BHP 0.44 Fully ducted return/ exhaust  Calculated Adjustment (in H <sub>2</sub> O)  Designed per §140.4(e) System Fan and (m)  Type:  O3 04 05 06 07

Mechanical S NRCC-MCH-E (Created 0	9/2020)								CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF CO									NRCC
Project Name: C	OLORADO RIVER STATIO	N REMODEL					Page:		Page
Project Address: 1	111 BAILEY AVENUE NEE	DLES, CA. 92363				Date P	repared:		202
Table Continued									
Nonresidential and	d Hotel/ Motel Ventilatio	on Systems							
	04		05			06			07
						3		Air Fi	Itration per §120.1(c) and §141.0
System Name:	RTU-2	System Design OA	275		System De	100 mg	0		2
		CFM Air Flow <sup>1</sup> :			Transfer A	ir CFM:		Provide	ed per §120.1(c) (NR & Hotel/Mo
08	09	10	11	12	13	14	15		16
06		al Ventilation Requir			13		er <u>§120.1(c)4</u>		16
Space Name or	iviechanic	Conditione		L)3_	Required	Required		,	DCV or Occupant Sensor Control
Item Tag	Occupancy Type <sup>4</sup>		showerheads	# of	14: 04	Minimum	Provided per		§120.1(d)3, §120.1(d)5 & §120.2
		Area (ft²)	/ toilets	people <sup>5</sup>	CFM	CFM	Design CFM		
								5614	NA N. 1 . 1 . 6120.1
	127220	020000			0200022			DCV	NA: Not required per §120.1
IAIL DEPUTIES OF	Office space	349			52.35		0	Occ	
Ð								Sensor	Provided per §120.1(d)5
-								N-Market	SINGER RESIDENCE CHIEF C
HISPACON COMMON AND INVESTMENT AND AND ADDRESS.		100 1000			9/00007790			DCV	NA: Not required per §120.1
JAIL INTERVIEW	Office space	57			8.55		0	Occ	
								Sensor	Provided per §120.1(d)5
								DCV	NA: Not required per §120.1
PIO OFFICE	Office space	134			20.1		0	Occ	
								Sensor	Provided per §120.1(d)5
				-					
								DCV	NA: Not required per §120.1
BUSINESS & RECC	Office space	388			58.2		0	0	
								Occ Sensor	Provided per §120.1(d)5
								Selisoi	
								DCV	NA: Not required per §120.1
LIVE SCAN	Office space	51			7.65		0	_	
				l				Occ Sensor	Provided per §120.1(d)5

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NRCC-MCH-E (Created										CALIFORNIA ENERGY CO	
CERTIFICATE OF C							- In	7 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1			NRCC-MCH-E
	COLORADO RIVER STATIO		313					rt Page:			Page 15 of 25
Project Address:	1111 BAILEY AVENUE NEE	DLES, CA.	92363				Date	Prepared:			2022-10-13
Table Continued			92					_		ſ.	
CORRIDOR	Corridor		73			10.95		0	DCV	NA: Not required pe	r §120.1(d)3
			,,,			20,00			Occ Sensor	Provided per §1	20.1(d)5
MARINE OFFICE	Office space		213			31.95		0	DCV	NA: Not required pe	r §120.1(d)3
WARINE OFFICE	Office space		215			31.93			Occ Sensor	Provided per §12	20.1(d)5
JAN CLOS	Janitor closet		36			5.4	36	36	DCV	NA: Not required pe	r §120.1(d)3
JAN CLOS	Janitor closet		30			5.4	30	30	Occ Sensor	NA: Not required s	space type
CORRIDOR	Corridor		141			21.15		0	DCV	NA: Not required pe	r §120.1(d)3
CORRIDOR	Corridor		141			21.15		ľ	Occ Sensor	Provided per §1:	20.1(d)5
2 100		*	- 0	500	570		b)	***	- 100 m	20	
2500	Total System Required Mi			209	9.55	18		Ventilation for	or this Sys	tem Complies?	Yes
Nonresidential an	d Hotel/ Motel Ventilation	on System:	s	**						*	
	04			05			06			07	
System Name:	RTU-5	System D		295		System De		0	Air Fil	tration per §120.1(c) ar	nd §141.0(b)2 <sup>2</sup>
•		CFM Air F	low':			Transfer A	ir CFM:	11/250	Provide	ed per §120.1(c) (NR &	Hotel/Motel)
08	09		10	11	12	13	14	15		16	
	Mechanic	al Ventilat	ion Require	d per §120.1(	c)3 <sup>3</sup>		Exh. Vent.	per §120.1(c)4			
Space Name or Item Tag	Occupancy Type <sup>4</sup>		Conditioned Floor Area (ft²)	# of showerheads / toilets	# of people <sup>5</sup>	Required Min OA CFM	Required Minimum CFM	Provided per Design CFM		OCV or Occupant Sensor §120.1(d)3, §120.1(d)5 §	
20000000	C11					20.25			DCV	NA: Not required pe	r §120.1(d)3
CORRIDOR	Corridor		195			29.25		0	Occ Sensor	Provided per §1:	20.1(d)5

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RCC-MCH-E (C	ical Systems Created 09/2020)					(	ALIFORNIA ENERGY CO	MMISSION ( )
	E OF COMPLIANCE							NRCC-MCH-
roject Nam	ne: COLORADO RIVER STATIO	N REMODEL			Report Page:			Page 4 of 2
roject Add	ress: 1111 BAILEY AVENUE NEE	DLES, CA. 92363			Date Prepared:			2022-10-1
Dry System	Equipment Efficiency (other tha	an Package Terminal Air Co	onditioners (PTAC	) and Package Te	rminal Heat Pum	ps (PTHP))		
01	02	03	04	05	06	07	08	09
			Heating M	ode			Cooling Mode	
Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Efficiency Unit	Min Efficiency Required per Tables 110.2/ Title 20	Design Efficiency	Efficiency Unit	Min Efficiency Required per Tables 110.2/ Title 20	Design Efficiency
RTU-3	≥65,000 and <135,000	47°Fdb/43°Fwb OSA	СОР	3.3	3.81	EER	10.8 12	11.3 13.2
						EER	10.8	11.2
RTU-4	≥65,000 and <135,000	47°Fdb/43°Fwb OSA	COP	3.3	4.15	IEER	12	12.9
RTU-5	<65,000		HSPF	8	8	SEER	14	14
RTU-6	≥65,000 and <135,000	47°Fdb/43°Fwb OSA	COP	3.3	3.78	EER	10.8	11.2
KIO-0	203,000 and <133,000	47 Tub/45 TWB 05A	COI	3.5	5.78	IEER	12	12.9
RTU-7	≥65,000 and ≤135,000	47°Fdb/43°Fwb OSA	COP	3.3	3.81	EER	10.8	11.3
K10-/	203,000 and \$133,000	47 rub/43 rwb USA	COP	3.3	3.01	IEER	12	13.2

i. PUMPS									?
his Section Doe	s Not Apply								Allo Anno
. FAN SYSTEM	IS & AIR ECON	OMIZERS							?
	stem details, the nts and do not n RTU-1		ded in Tab		1000		requirements. Fan ed per §140.4(e) and (m)	Systems servin  System Fan Type:	g only process loads are exempt from  Variable Air Volume
01	02		03	04	05	06	07	1	08
	NAME OF THE OWNER.	tion		Maximum Design		06 Design			08 p Adjustment - <u>Table 140.4-B</u>
01 Fan Name or Item Tag	Fan Fund	ction	03 Qty		05 HP Unit <sup>2</sup>			er Pressure Dro	

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NRCC-MCH-E (Created 0 CERTIFICATE OF CO						· (	ALIFORNIA ENERGY COMMISSION NRCC-MCH-E
	OLORADO RIVER STATIC	ON REMODEL				Report Page:	Page 8 of 25
Project Address: 1	111 BAILEY AVENUE NE	EDLES, CA. 9236	3			Date Prepared:	2022-10-13
SUPPLY FAN	Supply	1	2,068	ВНР	0.53	None used	
	2 (1999) (1991)		V2-			Calculated Adjustment (in H <sub>2</sub> O)	
EXHAUST FAN	Exhaust	1	0	ВНР	0.62	Fully ducted return/ exhaust	2,068
						Calculated Adjustment (in H <sub>2</sub> O)	

retar e) stem e colgi e cappi) i mile i (ei iii).	2,000	101010110111010101011011111111111111111		
<sup>1</sup> FOOTNOTE: Computer room economizers must	meet requirem	ents of §140.9(a) and will be document	ed on the NRC	CC-PRC-E document.
<sup>2</sup> The unit used for HP must be consistent for all f	ans within a sv	stem		

SYSTEM CONT	rrols							(£
	s: Complete the fo 141.0(b)2E for alt	-	demonstrate compliance wi ioning systems.	th mandatory co	ntrols in <u>§110.2</u> an	d <u>§120.2</u> and prescriptive c	ontrols in §140.4(	<u>f)</u> and <u>(n)</u> or
01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats §110.2(b) & (c) <sup>1</sup> , §120.2(a) or §141.0(b)2E	Shut-Off Controls §120.2(e)	Isolation Zone Controls §120.2(g)	Demand Response §110.12 and §120.2(b)	Supply Air Temp. Reset §140.4(f)	Window Interlocks per §140.4(n)
RTU-1	single zone	≤ 25,000 ft²	Setback Thermostat	Auto Timeswitch	NA: Single Zone	DR Tstat per §110.12	NA: Single Zone	NA: No operable windows
RTU-2	single zone	≤ 25,000 ft²	Setback Thermostat	Auto Timeswitch	NA: Single Zone	DR Tstat per §110.12	NA: Single Zone	NA: No operable windows
RTU-3	single zone	≤ 25,000 ft²	Setback Thermostat	Auto Timeswitch	NA: Single Zone	DR Tstat per §110.12	NA: Single Zone	NA: No operable windows
RTU-4	single zone	≤ 25,000 ft²	Setback Thermostat	Auto Timeswitch	NA: Single Zone	DR Tstat per §110.12	NA: Single Zone	NA: No operable windows

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	09/2020)									CALIFORNIA ENERGY	
CERTIFICATE OF C		N DENAGE					ln			- 1	NRCC-MCH-I
	COLORADO RIVER STATIO 1111 BAILEY AVENUE NEE		05136				100000000000000000000000000000000000000	t Page: Prepared:			Page 12 of 2! 2022-10-1
Project Address	IIII BAILET AVENUE NEE	DLES, CA.	92303				Date	rrepareu.		9	2022-10-1
LOBBY	Main Entry Lobby		95			14.25		0	DCV	Provided per §	120.1(d)4
LOBBI	Wall Elici y Lobby		33			14.25			Occ Sensor	Provided per §	120.1(d)5
TOILET	Tailet (aublie)		54	1		8.1	70	70	DCV	NA: Space exhaus ventilation rate	
TOILET	Toilet (public)		54	1		8.1	70	70	Occ Sensor	NA: Not required	space type
MESTIDINE	***		27						DCV	NA: Not required p	er §120.1(d)3
VESTIBULE	All others		37			5.55		0	Occ Sensor	NA: Not required space type	
DUDUS INTERVIEN	KA IE		41			20.5			DCV	Provided per §120.1(d)4	
PUBLIC INTERVIEV	Multipurpose assemb	oly	41			20.5		0	Occ Sensor	Provided per §120.1(d)5	
EVIDENCE PREP	Office space		388			58.2		0	DCV	NA: Not required p	er §120.1(d)3
EVIDENCE PREP	Office space		300			58.2			Occ Sensor	Provided per §	120.1(d)5
17	Total Custom Descriped Mi	- OA CENA	•	253	3.45	18		Vantilation fo	u shio Cua	tom Commisso	Yes
7.0	Total System Required Mind Hotel / Motel Ventilation			253	1.43	10		ventuation ic	ii tilis sys	tem Complies?	Tes
ivom esidentiai an	04	Jii System		05			06			07	
	280000			numeti			SENSE		Air Fil	tration per §120.1(c)	and §141.0(b)22
System Name:	RTU-3	System D CFM Air F		225		System De Transfer A	700000000000000000000000000000000000000	0		d per §120.1(c) (NR 8	
08	09		10	11	12	13	14	15		16	
3000	Mechanic	al Ventila	tion Require	d per §120.1(d	:)33		Exh. Vent.	per §120.1(c)4		2,200	
Space Name or Item Tag	Occupancy Type		Conditioned Floor Area (ft²)	# of showerheads / toilets	# of people <sup>5</sup>	Required Min OA CFM	Required Minimum CFM	Provided per Design CFM		OCV or Occupant Sens 120.1(d)3, §120.1(d)5	

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	09/2020)									CALIFORNIA ENERGY	
CERTIFICATE OF CO Project Name: (	OMPLIANCE COLORADO RIVER STATION	DEMODEL					Donor	t Page:			NRCC-MCH-I Page 16 of 2
	L111 BAILEY AVENUE NEED		363					repared:			2022-10-1
The state of the s	ETTT BAILET AVEIVOL IVELL	7EE3, CA. 32.	303				Date	тератей.			2022 10 1
Table Continued			8.9	10 30						6	
ADMIN SARGENT	Office space		142			21.3		0	DCV	NA: Not required po	er §120.1(d)3
±	and and and the second								Occ Sensor	Provided per §120.1(d)5	
ADMIN WORK AR	Occupiable storage for o	lry	101			15.15		0	DCV	NA: Not required per §120.1(d)3	
+	materials		101			13.13			Occ Sensor	NA: Not required	space type
CAPTAIN'S OFFICE	Office space		207			31.05		0	DCV	NA: Not required po	er §120.1(d)3
+	Office space		207			31.03			Occ Sensor	Provided per §3	120.1(d)5
CARTAINIC CECRE	0#:		127			10.05		0	DCV	NA: Not required po	er §120.1(d)3
CAPTAIN'S SECRE	Office space		12/			19.05			Occ Sensor	Provided per §3	120.1(d)5
CONFERENCE	Conference/ meeting		352			52.8		0	DCV	Provided per §3	120.1(d)4
CONFERENCE	conference/ meeting		332			52.8			Occ Sensor	Provided per §3	120.1(d)5
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5 N	Mechanica			d per §120.1(d	:)3³			er §120.1(c)4			6
Space Name or Item Tag	Occupancy Type <sup>4</sup>		nditioned Floor	# of showerheads	# of people <sup>5</sup>	Required Min OA	Required Minimum CFM	Provided per Design CFM		OCV or Occupant Senso 120.1(d)3, §120.1(d)5	

COLORADO RIVER STATION REMODEL 1111 BAILEY AVENUE NEEDLES, CA. 92363 FOR THE SAN BERNARDINO COUNTY SHERIFF'S DEPARTMENT

**KEY NOTES** 

WBSE #: 10.10.1220

CAFM #: NEE004

CIP #: 22-030



marks architects 73121 fred waring drive

**REVISIONS** 

**DECEMBER 15, 2022** 3022006 DRAWING NUMBER

Documentation Author Signature: Seakhoon Park

909.477.6915

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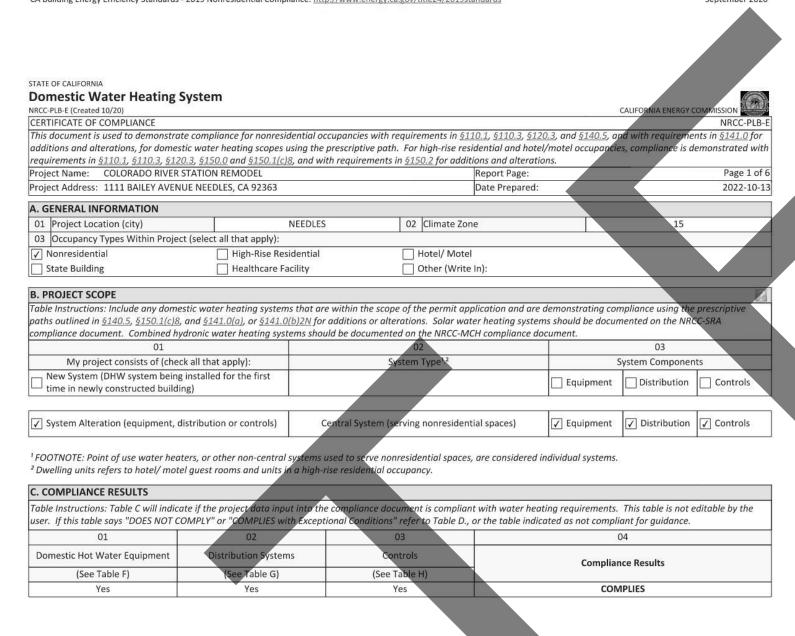
CEA/ HERS Certification Identification (if applicable):

Responsible Designer Signature:

Signature Date:

Form/Title

Report Page:	Report Page:	Mechanical Systems		Mechanical Systems	
Project Address: 1111 BAILEY AVENUE NEEDLES, CA. 92363   Date Prepared:	Date Prepared:		THE CHIEF CLEARED STATE COMMISSION	NRCC-MCH-E CERTIFICATE OF COMPLIANCE	
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21.6   O	Document   Continue	Report Page: Page 17 of 25 Date Prepared: 2022-10-05 Date Prepared: 2022-10-05  NRCC-MCH-E SCHORLANCE Project Name: COLORADO RIVER STATION REMODEL Report Page: Page Date Prepared: 2022-10-05	Report Page:Page 17 of 25Project Name:COLORADO RIVER STATION REMODELReport Page:PageDate Prepared:2022-10-05Project Address:1111 BAILEY AVENUE NEEDLES, CA. 92363Date Prepared:2022-10-05	DCV NA: Not required per §120.1(d)3	16
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18.15  OCC Sensor NA: Not required per §120.1(d)3  41.1  OCC Sensor NA: Not required space type  DCV NA: Not required space type  SHOWER RM Shower room 39 1 5.85 50 50 50 OCC Sensor NA: Not required space type  DCV NA: Not required space type  LOCKER RM Locker room (all others) 658 98.7 164.5 165 OCC Sensor NA: Not required space what ventilation rate expected by the space of the	DCV NA: Not required per §120.1(d)3  OCC Sensor NA: Not required space type  DCV NA: Not required space type	Report Page:   Page 17 of 25   Project Address:   111 BAILEY AVENUE NEEDLES, CA. 92363   Project Address:   121 BAILEY AVENUE NEEDLES, CA. 92363   Date Prepared:   Page 17 of 25   Project Address:   111 BAILEY AVENUE NEEDLES, CA. 92363   Date Prepared:   Page 17 of 25   Project Address:   111 BAILEY AVENUE NEEDLES, CA. 92363   Date Prepared:   Page 17 of 25   Project Address:   111 BAILEY AVENUE NEEDLES, CA. 92363   Date Prepared:   Page 17 of 25   Project Address:   111 BAILEY AVENUE NEEDLES, CA. 92363   Date Prepared:   Page 17 of 25   Project Address:   111 BAILEY AVENUE NEEDLES, CA. 92363   Date Prepared:   Page 17 of 25   Page 17 of 25   Project Address:   111 BAILEY AVENUE NEEDLES, CA. 92363   Date Prepared:   Page 17 of 25   Project Address:   Page 17 of 25   Project	Report Page:	Sensor NA: Not required space type	equired space t
NA: Not required space type  DCV NA: Not required space type  Sensor NA: Not required space type  DCV NA: Not required space type  SHOWER RM Shower room 39 1 5.85 50 50 50	NA: Not required space type    DCV   NA: Not required per §120.1(d)3	Report Page:	Report Page:	10.35 0 Occ TOILET RM Toilet (public) 48 1 7.2 70 70 ventilation	
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10.35  0  0  0  NA: Not required per \$120.1(d)3 $18.15  0  0  0  NA: Not required space type$ $18.15  0  0  0  0  0  0  0  0  0$	DCV NA: Not required per §120.1(d)3  OCC Sensor  NA: Not required space type  DCV NA: Not required per §120.1(d)3  OCC Sensor  NA: Not required space type  DCV NA: Not required space type  SHOWER RM Shower room  S	NRC-MCH-E   Report Page:   Page 17 of 25   Project Name:   COLORADO RIVER STATION REMODEL   Report Page:   Page 17 of 25   Project Name:   COLORADO RIVER STATION REMODEL   Report Page:   Page 17 of 25   Project Name:   COLORADO RIVER STATION REMODEL   Report Page:   Page 17 of 25   Project Name:   COLORADO RIVER STATION REMODEL   Report Page:   Page 17 of 25   Project Name:   COLORADO RIVER STATION REMODEL   Report Page:   Page 17 of 25   Page 17 of 25   Project Name:   COLORADO RIVER STATION REMODEL   Report Page:   Page 17 of 25   Page 17 of 25   Project Name:   COLORADO RIVER STATION REMODEL   Report Page:   Page 17 of 25   Page 17 of 25   Project Name:   COLORADO RIVER STATION REMODEL   Report Page:   Page 17 of 25   P	Report Page:	Occ   Provided per §120.1(d)5   TOILET/SHOWER   Toilet (public)   70   2   10.5   140   140   Occ   NA: Not required.	52 AM 94
10.35   O	Sensor Provided per §120.1(d)5  DCV NA: Not required per §120.1(d)3  Occ Sensor NA: Not required space type  DCV NA: Not required per §120.1(d)3  Occ Sensor NA: Not required per §120.1(d)3  Occ Sensor NA: Not required space type  SHOWER RM Shower room 39 1 5.85 50 50  DCV NA: Not required space type  DCV NA: Not required per §120.1(d)3  Occ Sensor NA: Not required space type  DCV NA: Not required space type  DCV NA: Not required space type  LOCKER RM Locker room (all others) 658 98.7 164.5 165  Occ Occ Sensor NA: Not required space type  NA: Not required space type  NA: Not required space type  DCV NA: Not required space type  Occ Sensor NA: Not required space type  Occ NA: Not required space type  Occ NA: Not required space type  NA: Not required space type  NA: Not required space type  Occ Sensor NA: Not required space type  Occ NA: Not required space type  Occ NA: Not required space type  Occ NA: Not required space type	NRCC-MCH-E Report Page: Page 17 of 25 Date Prepared: 2022-10-05  Table Continued  DCV NA: Not required per \$120.1(d)5  TOILET/SHOWER Toilet (public)  T	Report Page:	180.5 0 DCV ventilation	
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22.65   0     CC   Sensor   Provided per \$120.1(d)5   TOILET/SHOWER   Toilet (public)   76   2   11.4   140   140   140   Occ   Sensor   NA: Not required service   NA: Not required	O	NRCC-MCH-E Report Page: Page 17 of 25 Date Prepared: 2022-10-05  Project Name: COLORADO RIVER STATION REMODEL  Report Page: Report Page: Pag Date Prepared: 21  Report Page: Page: Pag Date Prepared: 21  Report Page: Page	Report Page:   Page 17 of 25   Project Name:   COLORADO RIVER STATION REMODEL   Report Page:   Page 20	DCV NA: Not required per \$120.1(d)3	exhaust is > de
Area (ft²)	DCV   NA: Not required per §120.1(d)3   OCC   Sensor   Provided per §120.1(d)5   OCC   Sensor   Provided per §120.1(d)5   OCC   Sensor   Provided per §120.1(d)5   OCC   Sensor   Provided per §120.1(d)3   OCC   Sensor   Provided per §120.1(d)5   OCC   Sensor   NA: Not required space type   OCC   NA: Not required per §120.1(d)3   OCC   Sensor   NA: Not required space type   OCC   OCC   Sensor   OCC   OCC   Sensor   OCC   Sensor   OCC   Sensor   OCC   Sensor   OCC   OCC   Sensor   OCC   Sensor   OCC   OCC   Sensor   OCC   OCC   OCC   Sensor   OCC   OCC   Sensor   OCC   OCC   Sensor   OCC   OCC   OCC   Sensor   OCC	NRCC-MCH-E	Report Page:   Page 17 of 25   Project Name:   COLORADO RIVER STATION REMODEL   Report Page:   Page	Occ Provided per §120.1(d)5 Space Name or Item Tag Occupancy Type4 Floor showerheads # of Min QA Minimum Provided per per §120.1(d)3, §120.1	
Coc   Sensor   Provided per \$120.1(d)5   Space wature   tem Tag   Occupancy Type*   Since   Space wature   foot   Showerheads   foot	DCV   NA: Not required per \$120.1(d)5   Space exhaust is > designer of the control of the management of the control of the control of the management of the control of the control of the management of the control of the control of the control of the management of the control of the control of the control of the management of the control of the c	Report Page: Page 17 of 25 Date Prepared: 2022-10-05 Date Propage: Page 17 of 25 Table Continued    Report Page: Page 17 of 25   Project Name: COLORADO RIVER STATION REMODEL   Report Page: Page   Page   Project Address: 1111 BAILEY AVENUE NEEDLES, CA. 92363   Date Prepared: 2022-10-05	Report Page: Page 17 of 25 Date Prepared: 2022-10-05 Date Prepared: 2022-10-05  Table Continued  Project Name: COLORADO RIVER STATION REMODEL Report Page: Page Project Address: 1111 BAILEY AVENUE NEEDLES, CA. 92363 Date Prepared: 2022-10-05 Date Prepared: 2022-10-05	DCV NA: Not required per §120.1(d)3  Mechanical Ventilation Required per §120.1(c)3 <sup>3</sup> Exh. Vent. per §120.1(c)4	16
DCV   NA: Not required per \$120.1(d)5   Space Name or Remm* or R	DCV   NA: Not required per \$120.1(d)3   Space Name or term Tag   Occupancy Type*   Floor Area (ft*)   Toilet (public)	Report Page: Page 17 of 25  NRCC-MCH-E Project Name: COLORADO RIVER STATION REMODEL Report Page: Page	Report Page: Page 17 of 25 Project Name: COLORADO RIVER STATION REMODEL Report Page: Page		
DCV	DCV   NA: Not required per \$120.1(d)3   DCV   NA: Not required per \$120.1(d)5   Space Name or Item Tag   DCV   D	NRCC-MCH-E  CERTIFICATE OF COMPLIANCE  NRC		The state of the s	
Table Continued   Table Cont	Table Continued   Part   Par	CALIFORNIA ENGLIS COMMISSION	NOCE MELL T		
Report Page:	Report Page:		CALIFORNIA ENERGY COMMISSION NRCC-MCH-E (Created 09/2020) CALIFORNIA ENERGY COMMISSION	CALIFORNIA ENERGY COMMISSION NRCC-MCH-E (Created 09/2020)	



NRCC-PLB-E (Created 10/20) CERTIFICATE OF COMPI	IANCE	CALIFORNIA ENERGY COMMISSION NRCC-P
Project Name: COLO	RADO RIVER STATION REMODEL	Report Page: Page 5
Project Address: 1111	BAILEY AVENUE NEEDLES, CA 92363	Date Prepared: 2022-1
Table Instructions: Selec Table E. Additional Rem	arks. These documents must be completed by a H <mark>ERS Rater</mark> of ders registry, but drafts can be found online at https://www.e	ious tables of this document. If any selection needs to be changed, please explain why in nd provided to the building inspector during construction. The final documents must be energy.ca.gov/title24/2019standards/2019_compliance_documents/
Table Instructions: Select Table E. Additional Rem created by a HERS Provi Nonresidential_Docume	ctions have been made based on information provided in previarks. These documents must be completed by a HERS Rater projects of the second online at https://www.eents/NRCV/	nd provided to the building inspector during construction. The final documents must be energy.ca.gov/title24/2019standards/2019_compliance_documents/
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2022-10-13	Project A	ddress: 11	11 BAILEY AVENUE N	EEDLES, CA. 92363	Date Prepared:	2022-10-13
MDF						
			54 (F. 1987)	to occupiable space; supply side of balance	d ventilation systems including heat recovery and en	ergy recovery ventilation systems
& <u>§120.2(e)3</u> °				re stringent ventilation requirements: the r	nost stringent code requirement takes precedence	
					nost stringent code requirement takes precedence.	
	D240000			<del></del> -	ermined in accordance with the California Building Co	ode.
ехсерции						
space type	ventilatio	on. Example	es of spaces which red	quire lighting occupancy sensors include off	ices 250ft <sup>2</sup> or smaller, multipurpose rooms less than	1,000ft <sup>2</sup> , classrooms, conference
			isles and open areas i	n warehouses, library book stack aisles, cor	ridors, stairwells, parking garages, and loading and	unloading zones, unless excepted by
	§130.1(c	<i>].</i>				
exception						
space type	K. TERM	IINAL BOX	CONTROLS			?
Marie (1000)	This Sect	ion Does No	ot Apply			653
-			( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (			
exception	L. DISTR	IBUTION (	DUCTWORK AND P	IPING)		?
space type	Table Ins	tructions: C	omplete the following	g tables to show compliance with mandato	ry pipe insulation requirements found in §120.3 and p	prescriptive requirements found in
	§140.4(I)	for duct led	akage testing.		50 K	2 12 12
t is > design	Duct Lea	kage Sealin	g			
exception	The ansv	vers to the	questions below	ALL DUCTWORK	Duct leakage testing triggered for	No
snace type	apply to	the followir	ng duct system(s):	ALL DOCTWORK	these systems?	NO
space type	11	No	The scope of the p	roject includes only duct systems serving h	ealthcare facilites.	
t is > design	12	Yes	Duct system provi	des conditioned air to an occupiable space	for a constant volume, single zone, space-conditioni	ng system.
exception	13	No	The space condition	oning system serves less than 5,000 ft² of co	onditioned floor area.	
space type	14	No	The combined sur	face area of the ducts in the following locat	ions is more than 25% of the total surface area of th	e entire duct system:
space type				Outdoors		
Yes				requirements of §140.3(a)1B or if the roof I	has fixed vents or openings to the outside/ uncondi	tioned spaces
				n an unconditioned crawlspace		
		-		n other unconditioned spaces		
	15	No				
	16	No	100 (100)			onfirmed through field verification and
		1025	diagnostic testing	in accordance with procedures in the Refer	rence Nonresidential Appendix NA2.	
	Table Co	ntinued				
September 2020	CA Buildin	ng Energy Effi	ciency Standards - 2019	Nonresidential Compliance: http://www.energ	y.ca.gov/title24/2019standards	September 2020
	STATE OF C	ALIFORNIA				
	Mecha	anical Sy	stems			
OMMISSION						CALIFORNIA ENERGY COMMISSION
						NRCC-MCH-E
		and the National Control of the Cont				Page 23 of 25
2022-10-13	Project A	adress: 11	11 BAILEY AVENUE N	EEDLES, CA. 92363	Date Prepared:	2022-10-13
	P. DECL	ARATION (	OF REQUIRED CERT	FICATES OF VERIFICATION		2
	CHICAGO CONTRACTOR CON				vious tables of this document. If any selection needs t	o be changed, please explain why in
	created b	y a HERS Pi	roviders registry, but i			
	Nonresid	lential_Docι	iments/NRCV/			
	r Controls & §120.2(e)36  is > design exception  space type  Yes  September 2020	r Controls & §120.2(e)36  is > design is > design exception  space type  11 12 13 14  Yes  OMMISSION  NRC-MCH-E Page 22 of 25 2022-10-13  P. DECL Table Ins Table Co  September 2020  P. DECL Table Ins Table E. Created B.  P. DECL Table Ins Table E. Created B.  P. DECL Table Ins Table E. Created B.	r Controls R \$120.2(e)36 R \$12	FOOTNOTES: System CFM should include   Property   Pro	**FOOTNOTES: System CFM should include both mechanical and natural ventilation for a full filtration requirements apply to the following three system types per \$120.1(c)1 ventilation systems providing outside air to occupiable space; supply side of balance providing outside air to occupiable space.   **Inform Mechanical Code may have more stringent ventilation requirements; the name of the space of the project of the space of the project of the space of the project includes extending an existing duct system serving to the space of the project includes extending and existing duct system that are required by \$130.1(c) to have in the space of the project includes extending the space of the project includes an existing duct system the scope of the project includes an existing duct system the scope of the project includes an existing duct system the flag noscitation.	FOOTNOTES: System CR4 should include both mechanical and natural variations for the conclystem.

NRCV-MCH-04-H Duct Leakage Test

NOTE: Must be completed by a HERS

NRCV-MCH-24 Enclosure Air

NOTE: Must be completed b

NRCV-MCH-27 High-rise Re NOTE: Must be complete

NRCV-MCH-32 Local Meci NOTE: Must be completed by a HE

STATE OF CALIFORNIA

YES

**(** 

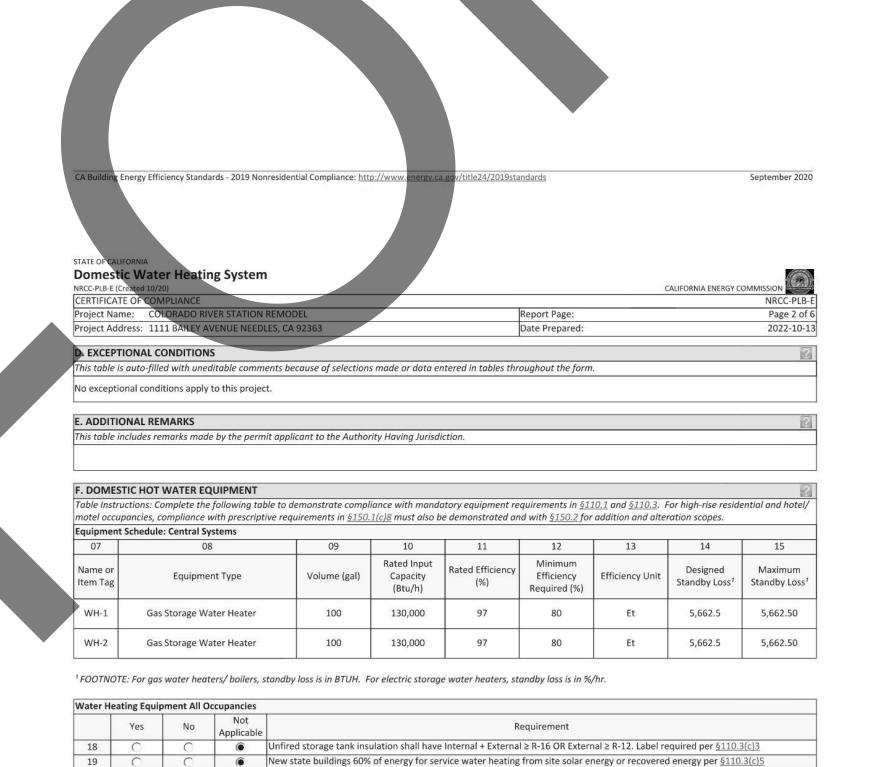
G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM

October 2020

Mechanical Systems

CERTIFICATE OF COMPLIANCE

Project Name: COLORADO RIVER STATION REMODEL



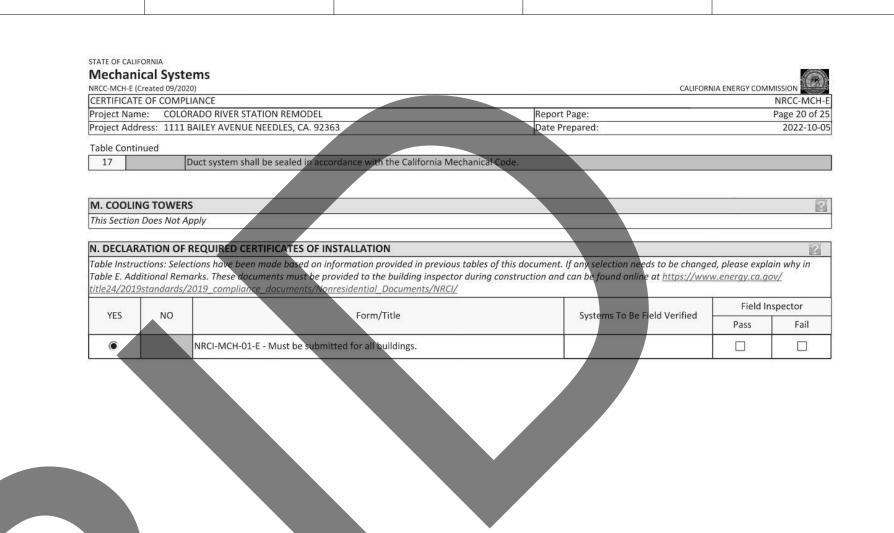
NRCC-PLB-E (Created 10/20)	ting System	30	CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE	×		NRCC-PLE
Project Name: COLORADO F	RIVER STATION REMODEL	Report Page:	Page 6 o
Project Address: 1111 BAILEY	AVENUE NEEDLES, CA 92363	Date Prepared:	2022-10-
DOCUMENTATION AUTHO	R'S DECLARATION STATEMENT		
I certify that this Certificate of	Compliance documentation is accurate and com	plete	
Documentation Author Name:	: SEOKHOON PARK	Documentation Author Signature: Seak hoon	Park
Company:	IMEG CORP	Signature Date: 10/13/	/2022
Address:	901 VIA PIEMONTE SUITE 400	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	ONTARIO/CA/91764	Phone: 909.477.69	15
RESPONSIBLE PERSON'S DECL I certify the following under p 1. The information provided o 2. I am eligible under Division	ARATION STATEMENT benalty of perjury, under the laws of the State of on this Certificate of Compliance is true and corn of the Business and Professions Code to acce	f California:	ntified on this Certificate of
RESPONSIBLE PERSON'S DECL I certify the following under p 1. The information provided o 2. I am eligible under Division Compliance (responsible do 3. The energy features and pe Certificate of Compliance o 4. The building design feature compliance documents, wo 5. I will ensure that a complet to the enforcement agency	ARATION STATEMENT benalty of perjury, under the laws of the State of on this Certificate of Compliance is true and core in 3 of the Business and Professions Code to acce esigner) erformance specifications, materials, componen conform to the requirements of Title 24, Part 1 a es or system design features identified on this Co orksheets, calculations, plans and specifications ted signed copy of this Certificate of Compliance of for all applicable inspections. I understand that	f California: rect. pt responsibility for the building design or system design ider ts, and manufactured devices for the building design or syste	m design identified on this provided on other applicable building permit application. or the building, and made availab
RESPONSIBLE PERSON'S DECL I certify the following under p 1. The information provided o 2. I am eligible under Division Compliance (responsible do 3. The energy features and pe Certificate of Compliance o 4. The building design feature compliance documents, wo 5. I will ensure that a complet to the enforcement agency documentation the builder	ARATION STATEMENT benalty of perjury, under the laws of the State of on this Certificate of Compliance is true and core in 3 of the Business and Professions Code to acce esigner) erformance specifications, materials, componen conform to the requirements of Title 24, Part 1 a es or system design features identified on this Co orksheets, calculations, plans and specifications ted signed copy of this Certificate of Compliance	f California: rect. pt responsibility for the building design or system design ider ts, and manufactured devices for the building design or syste and Part 6 of the California Code of Regulations. ertificate of Compliance are consistent with the information p submitted to the enforcement agency for approval with this eshall be made available with the building permit(s) issued for	m design identified on this provided on other applicable building permit application. or the building, and made availab
RESPONSIBLE PERSON'S DECL I certify the following under p 1. The information provided of compliance (responsible do compliance (responsible do compliance of Compliance documents, wo compliance to the enforcement agency documentation the builder Responsible Designer Name:	ARATION STATEMENT benalty of perjury, under the laws of the State of on this Certificate of Compliance is true and core in 3 of the Business and Professions Code to acce esigner) erformance specifications, materials, component conform to the requirements of Title 24, Part 1 a es or system design features identified on this Corksheets, calculations, plans and specifications ted signed copy of this Certificate of Compliance of for all applicable inspections. I understand that reprovides to the building owner at occupancy.	f California: rect. pt responsibility for the building design or system design ider ts, and manufactured devices for the building design or syste and Part 6 of the California Code of Regulations. ertificate of Compliance are consistent with the information p submitted to the enforcement agency for approval with this e shall be made available with the building permit(s) issued for t a completed signed copy of this Certificate of Compliance is	m design identified on this  provided on other applicable building permit application.  prothe building, and made availab  required to be included with the
RESPONSIBLE PERSON'S DECL I certify the following under p 1. The information provided o 2. I am eligible under Division Compliance (responsible do 3. The energy features and pe Certificate of Compliance o 4. The building design feature compliance documents, wo 5. I will ensure that a complet to the enforcement agency	ARATION STATEMENT benalty of perjury, under the laws of the State of on this Certificate of Compliance is true and corn as of the Business and Professions Code to accelesigner) erformance specifications, materials, component on form to the requirements of Title 24, Part 1 are so or system design features identified on this Coorksheets, calculations, plans and specifications ted signed copy of this Certificate of Compliance of For all applicable inspections. I understand that is provides to the building owner at occupancy.  DAPHNE X. HUANG	f California: rect. pt responsibility for the building design or system design idents, and manufactured devices for the building design or system design of Part 6 of the California Code of Regulations. ertificate of Compliance are consistent with the information probabilities are submitted to the enforcement agency for approval with this designable with the building permit(s) issued for the completed signed copy of this Certificate of Compliance is  Responsible Designer Signature:	m design identified on this provided on other applicable building permit application. For the building, and made availability required to be included with the

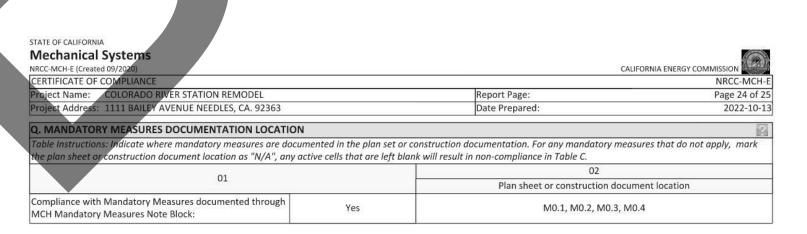
Isolation valves for instantaneous water heater with input rating > 6.8 kBTUH or 2 kW has been specified per §110.3(c)6

Table Instructions: Complete the following table to demonstrate compliance for nonresidential occupancies with distribution requirements in §120.3 and §140.5. For high-rise

residential and hotel/motel occupancies, compliance is demonstrated with requirements in §110.3(c), §120.3, §150.0, §150.1.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards





September 2020

September 2020

October 2020

2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

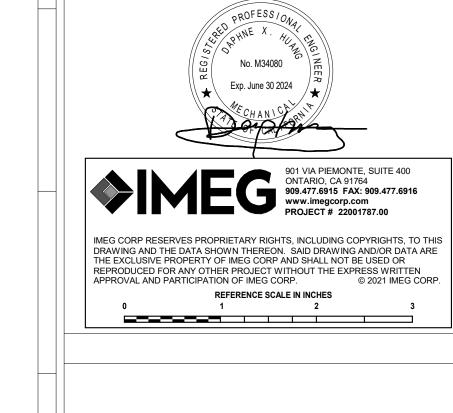
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

ing Energy Efficiency Standards -

Field Inspector

October 2020

October 2020



COLORADO RIVER STATION REMODEL

1111 BAILEY AVENUE

NEEDLES, CA. 92363

FOR THE

SAN BERNARDINO COUNTY

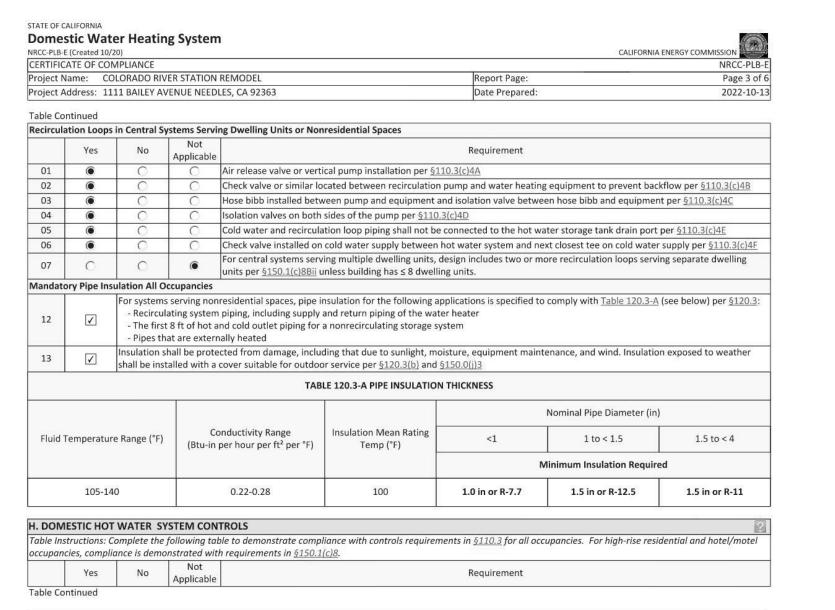
SHERIFF'S DEPARTMENT

WBSE #: 10.10.1220

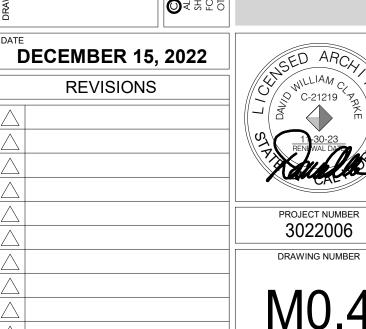
CAFM #: NEE004

**KEY NOTES** 

CIP #: 22-030

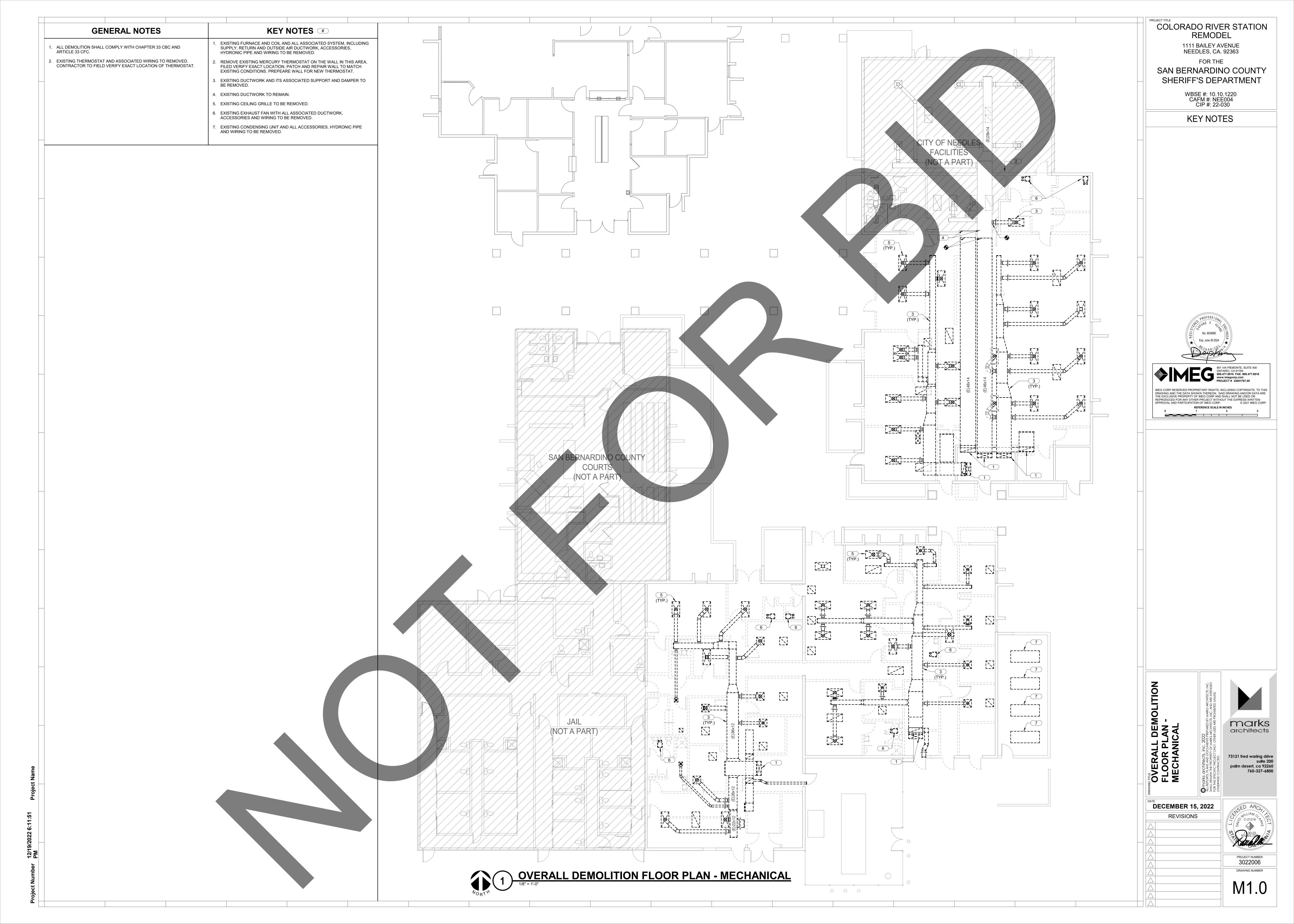


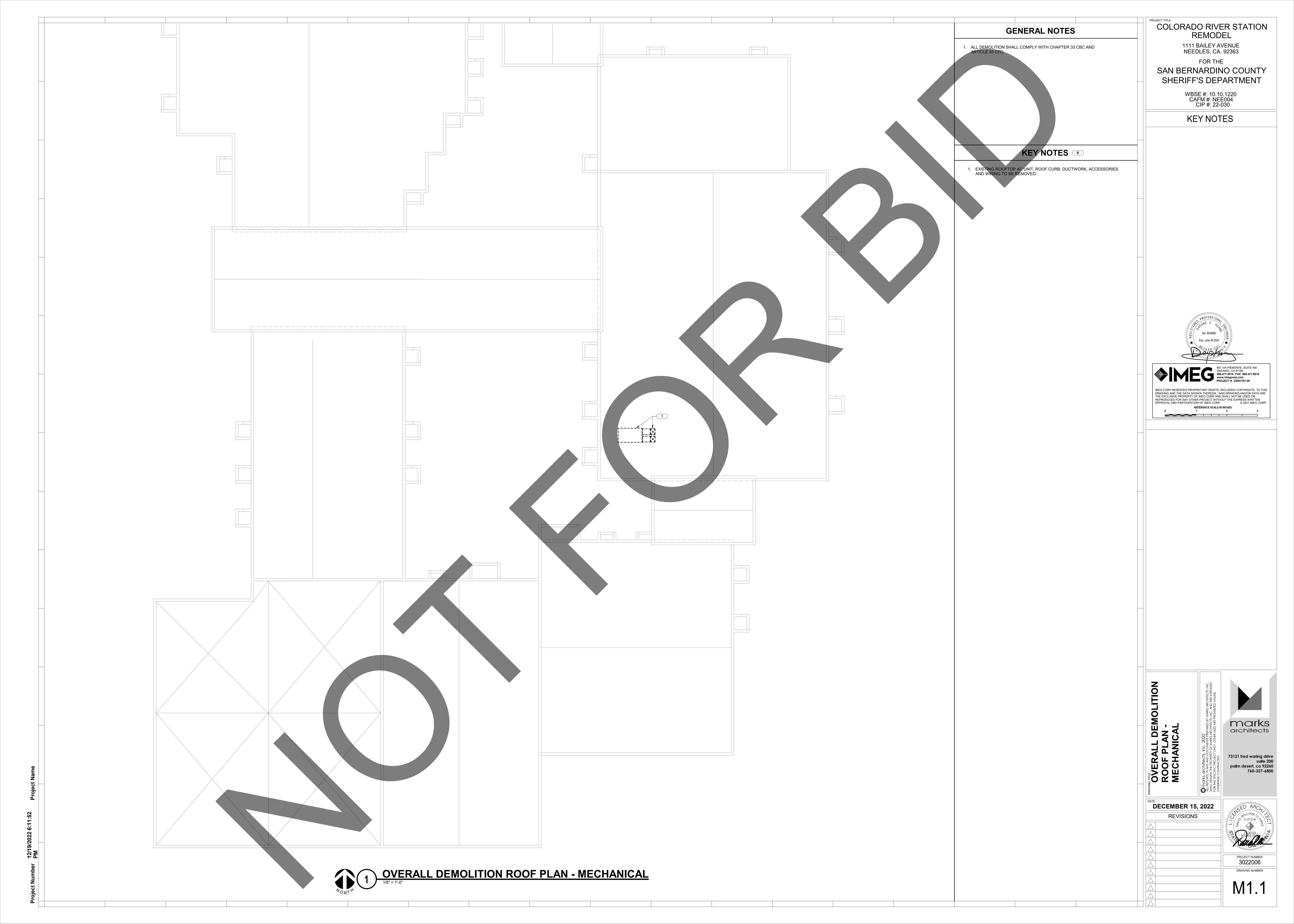


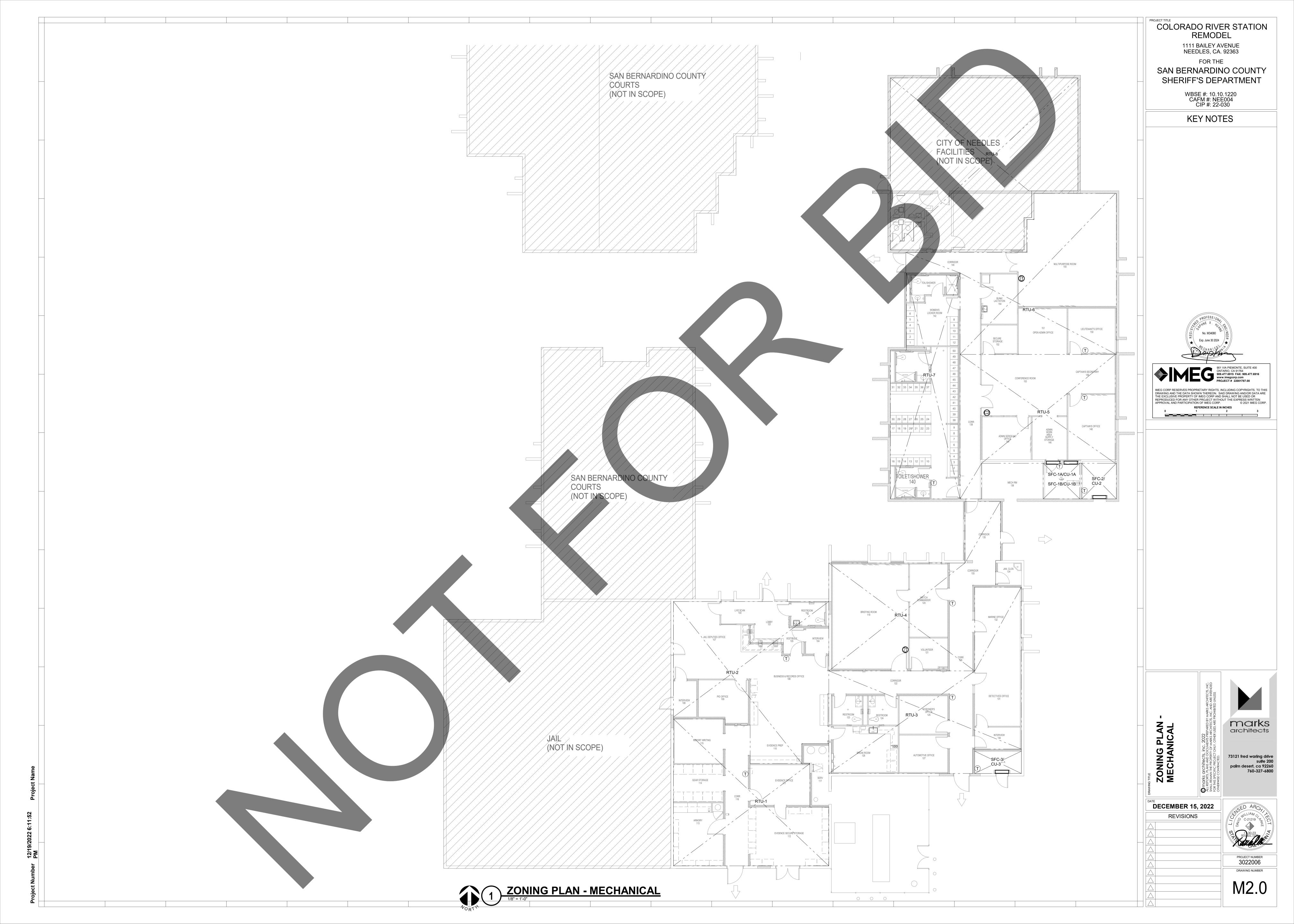


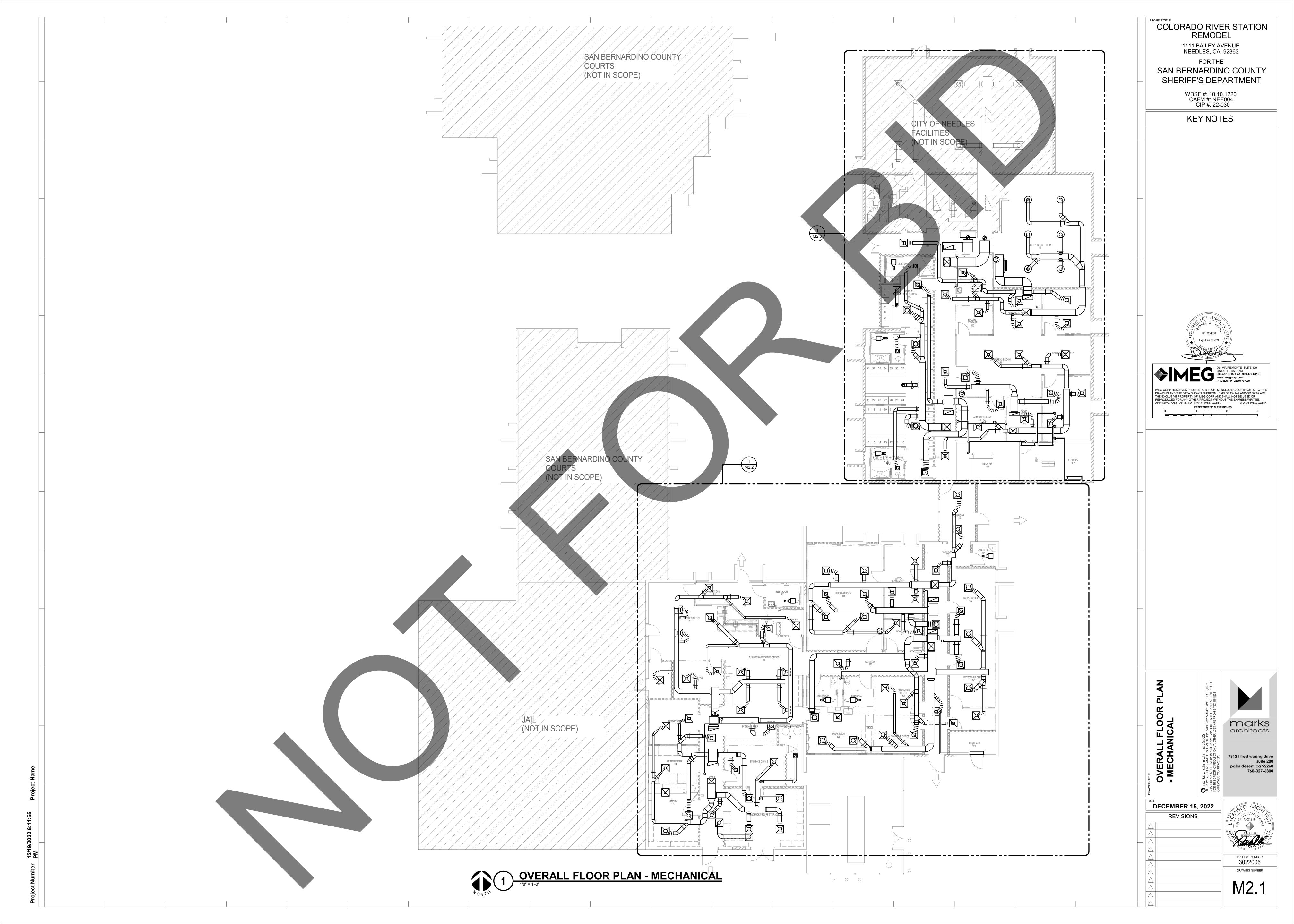
October 2020 CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

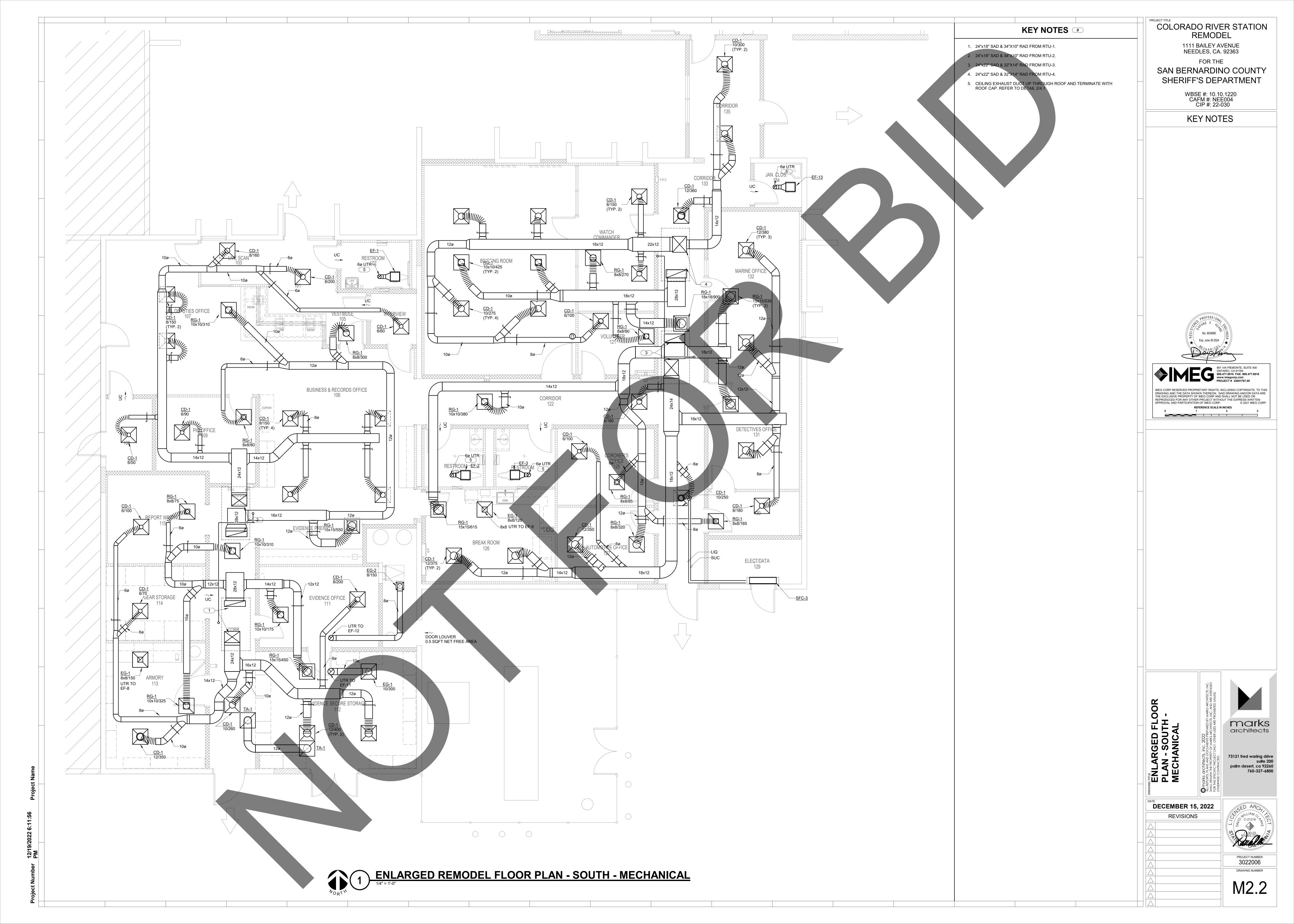
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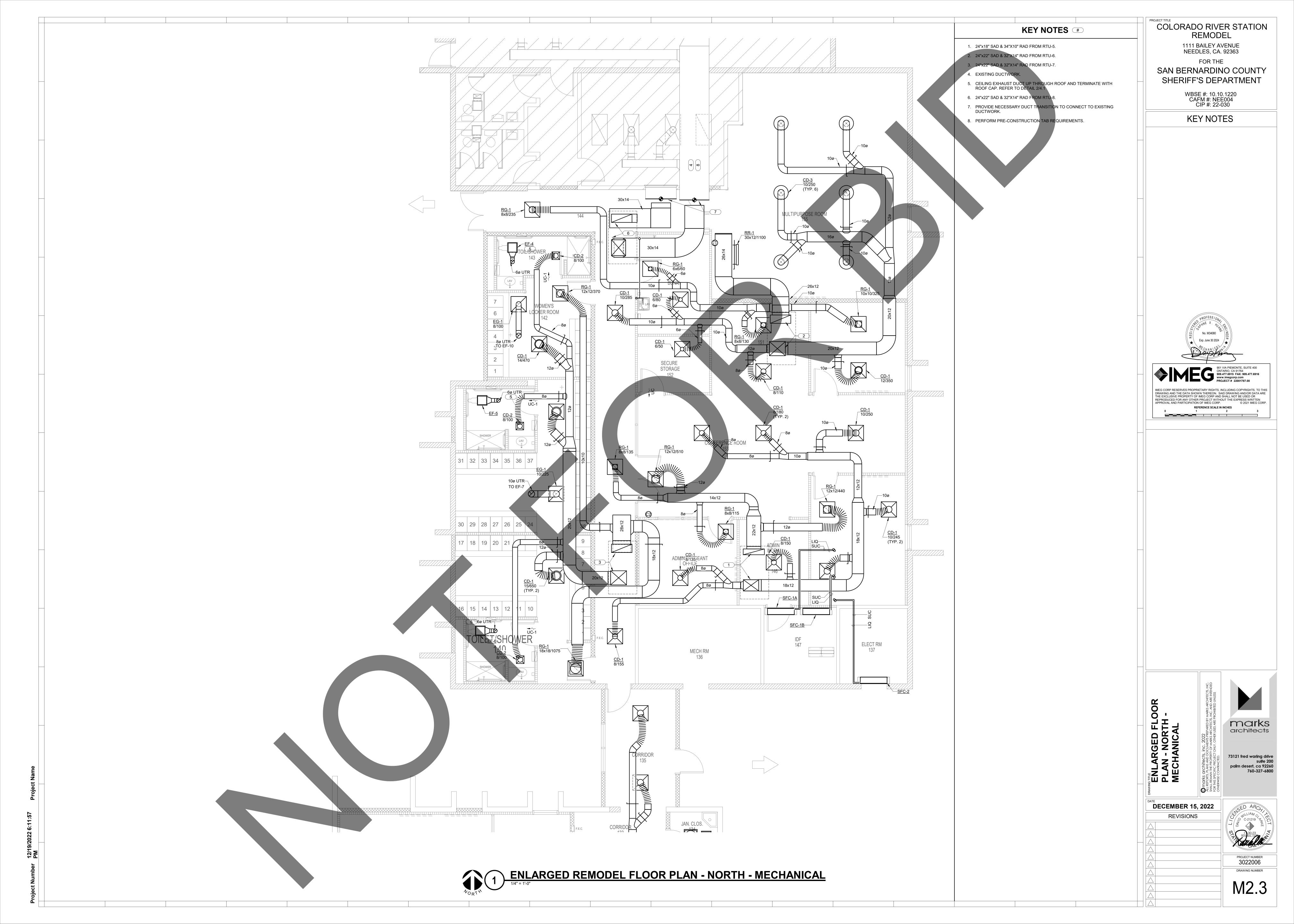




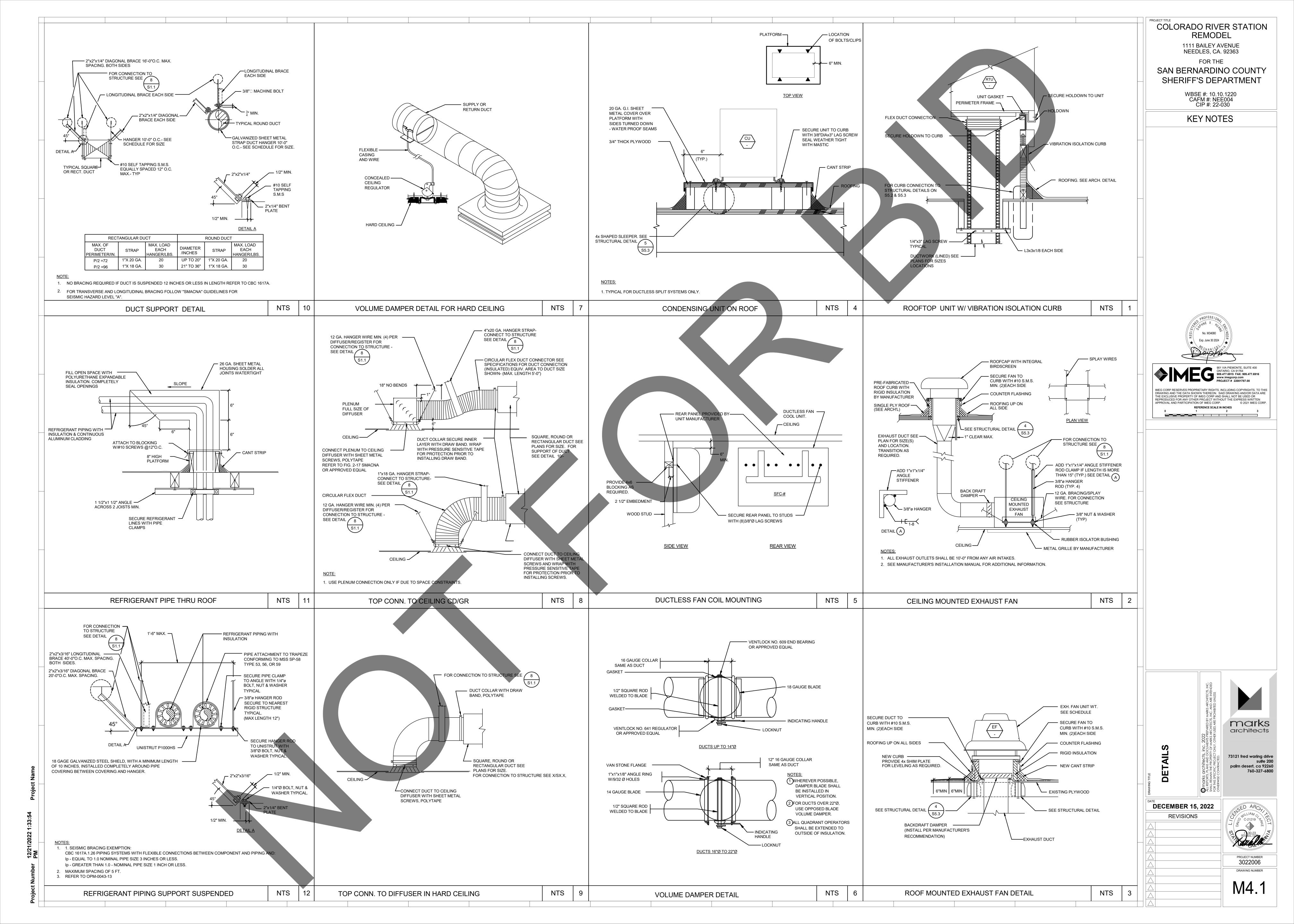


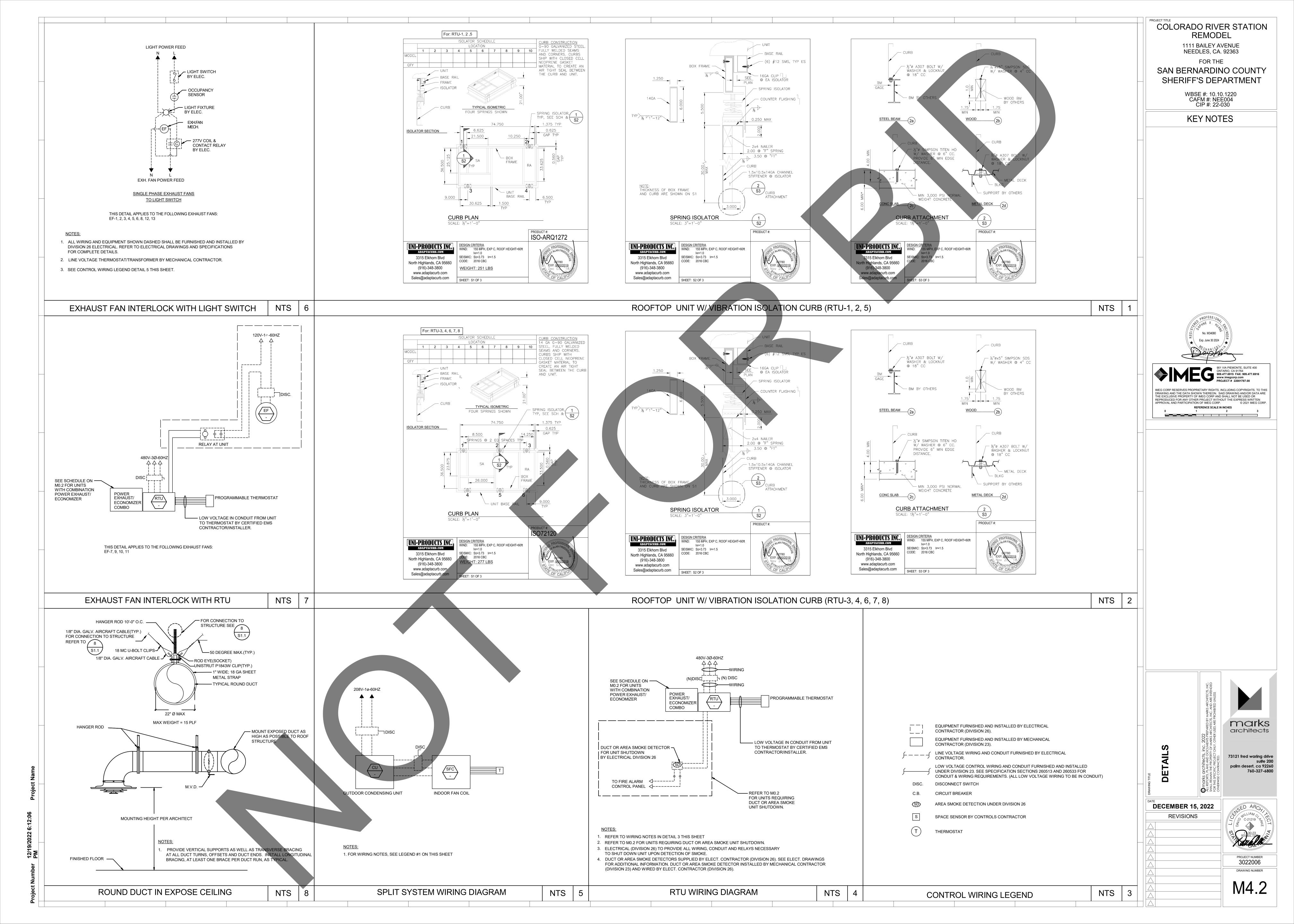












# FIRE / SMOKE BARRIER DESIGNATIONS

---- EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)

HALFTONING DOES NOT MODIFY SCOPE.

— — EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

'TAG'-E TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING

UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL

INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST

THE LINE TYPES SHOWN ARE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY RATINGS WITH THE LATEST SET OF ARCHITECTURAL PLANS AND FURNISH ALL MATERIALS REQUIRED TO COMPLY WITH THOSE RATINGS WHETHER SHOWN OR NOT. FIRE PARTITION -----1 HOUR FIRE BARRIER \_\_\_\_\_\_ 2 HOUR FIRE BARRIER OR WALL \_---

### APPLICABLE CODES AND STANDARDS:

2019 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 1

2019 CALIFORNIA BUILDING CODE (CBC) CALIFORNIA CODE OF REGULATIONS (CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART ( 2018 INTERNATIONAL BUILDING CODE (IBC) W/ 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA ELECTRICAL CODE (CEC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 3 ( 2017 NATIONAL ELECTRICAL CODE (NEC) W/ 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA ENERGY CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 6

2019 CALIFORNIA FIRE CODE (CFC) CALIFORNIA CODES OF REGULATIONS (CRR) TITLE 24, PART 9

( 2018 INTERNATIONAL FIRE CODE (IFC) W/ 2019 CALIFORNIA AMENDMENTS) 2019 CALIFORNIA EXISTING BUILDING CODE

CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24. PART 10

( 2018 INTERNATIONAL EXISTING BUILDING CODE (IEBC))

2019 CALIFORNIA REFERENCES STANDARDS CODE CALIFORNIA DOE OF REGULATIONS (CCR) TITLE 24, PART 12

2016 EDITION

NFPA STANDARDS

# PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CALIFORNIA AMENDED), NFPA 24 STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES.

NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED),

FOR COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2019 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80

SEE CALIFORNIA BUILDING CODE, CHAPTER 35, FOR STATE OF CALIFORNIA AMENDMENTS TO

## PLUMBING SYMBOL LIST NOT ALL SYMBOLS MAY APPLY. SYMBOL: DESCRIPTION: ──CA──│ COMPRESSED AIR ——CW—— COLD WATER - POTABLE ——CD—— CONDENSATE DRAIN ——G—— NATURAL GAS ----HW----- HOT WATER - POTABLE ----HWC---- HOT WATER CIRCULATING - POTABLE ——SAN—— SANITARY DRAINAGE TEMPERED WATER \_\_\_\_V\_\_\_ | VENT PIPE CONTINUATION ——■ | PIPE CAP PIPE DOWN PIPE UP OR UP/DOWN PIPE SERVING FIXTURE ON FLOOR ABOVE (EXAMPLE: FD = FLOOR DRAIN) PITCH PIPE IN DIRECTION DIRECTION OF FLOW IN PIPE **ROUTE TO DRAIN** — III— DIELECTRIC CONNECTION ——— UNION/FLANGE SHUTOFF VALVE NORMALLY OPEN SHUTOFF VALVE NORMALLY CLOSED CHECK VALVE BACKFLOW PREVENTER SOLENOID VALVE SAFETY/RELIEF VALVE VACUUM BREAKER REDUCER - REFERENCE SPECIFICATION ——▶ FOR CONCENTRIC/ECCENTRIC AND FOT/FOB PRESSURE REDUCING VALVE (LIQUID/GAS) ALIGNMENT GUIDE PIPE ANCHOR EXPANSION JOINT EJ-# #.#" IS THE EXPANSION TRAVEL INCHES

AIR ADMITTANCE VALVE

# PLUMBING ABBREVIATION KEY **DESCRIPTION:** ACCESS DOOR ABOVE FINISHED FLOOR

ABBR: ΑD BALANCING VALVE BFP **BACKFLOW PREVENTER** CI **CAST IRON** CO **CLEANOUT** DRINKING FOUNTAIN **EXISTING EWC ELECTRIC WATER COOLER** FCO FLOOR CLEANOUT FD FLOOR DRAIN FS FLOOR SINK GD GARBAGE DISPOSER INVERT ELEVATION (FOR REFERENCE ONLY) LAV LAVATORY MIXING VALVE SK TYP **TYPICAL** VTR **VENT THROUGH ROOF** WC WATER CLOSET WCO WALL CLEANOUT WATER HEATER

UTILITY BOX

### **RENOVATION NOTES:**

1. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND

REPORT ANY CONFLICTS BEFORE PROCEEDING. 2. NOT ALL EXISTING PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK.

3. FIELD VERIFY THE AVAILABLE CLEARANCES FOR PIPING BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.

4. EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF THEIR WORK AND SHALL NOTIFY THE CONSTRUCTION MANAGER PRIOR TO BIDDING IF OTHER UTILITIES ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO THEIR AREA OF WORK. 5. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CUTTING. REMOVAL AND PATCHING OF ROOFS, WALLS, AND FLOORS ASSOCIATED WITH WORK BY ALL CONTRACTORS. CONTRACTORS SHALL NOTIFY THE GC OF AFFECTED AREAS PRIOR TO BIDDING.

6. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO

7. WHERE EXISTING MECHANICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, PIPING IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING MECHANICAL SYSTEMS TO ALLOW FOR INSTALLATION OF

8. PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT

9. OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW

SYSTEMS ARE INSTALLED. 10. MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR TIE IN AND SWITCHOVER. DRAIN SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLET DRAINING SYSTEM. MAKE CHANGEOVER TO NEW SYSTEMS WITH MINIMUM OUTAGI

11. DISCONNECT AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUI THAT HAS BEEN REMOVED.

### PLUMBING GENERAL NOTES:

THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR FULLY OPERATIONAL SYSTEMS, WHETHER SPECIFIED OR NOT.

2. CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO RACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS FOR A COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN ICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES DENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER LISTED IS THE DNTRACTOR SHALL VERIFY THAT FIXTURES SUPPLIED ARE APPROVED PER ALL

APPLICABLE STATE, LOCAL AND GOVERNING AUTHO ALL FIXTURES SHALL CONFORM TO FEDERAL ACT S.3874

INVERT ELEVATIONS ARE FROM EXISTING DRAWINGS AND MAY NOT BE ACCURATE. VERIFY ELEVATIONS BEFORE BEGINNING WORK. 6. VERIFY UNDERGROUND PIPE SIZES, INVERT ELEVATIONS, AND LOCATIONS PRIOR TO

FOR CLARITY, NOT ALL VALVES HAVE BEEN SHOWN. PROVIDE SHUTOFF VALVES IN DOMESTIC WATER PIPING SERVING EACH ROOM WITH FIXTURES. ANGLE STOPS SHALL NOT BE CONSIDERED SHUTOFF VALVES. EXISTING CONDITIONS ON DEMOLITION PLANS ARE PROVIDED TO INDICATE THE GENERAL SCOPE OF ITEMS TO BE REMOVED. REFER TO SPECIFICATION SECTION 22 05 05 FOR ADDITIONAL DEMOLITION INFORMATION. P.C. SHALL CUT AND PATCH EXISTING AS REQUIRED FOR NEW OR DEMOLITION WORK

# **GENERAL NOTES:**

INFORMATION.

NLESS NOTED OTHERWISE. REFER TO SPECIFICATION SECTION 22 05 05 FOR ADDITIONAL

1. DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT

DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR YSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE FARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO **ER**IFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO ERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING TH FABRICATION OR EQUIPMENT ORDERS. REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO

COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS. EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL

CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF 7. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY

AUDIO/VISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES. OTHER THAN SPRINKLERS. 8. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS

RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND 9. IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING. 10. SEAL ALL WALL AND ROOF PENETRATIONS AIRTIGHT WHERE PIPING PENETRATE.

11. CAULK ALL PIPE PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS. 12. WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALI

RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT. 13. EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS,

14. DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES. 15. MAINTAIN A MINIMUM WORKING CLEARANCE OF 3'-6" IN FRONT OF ALL ELECTRICAL EQUIPMENT REQUIRING MAINTENANCE, INSPECTION, AND TESTING INCLUDING BUT NOT LIMITED TO PANELS, DISTRIBUTION PANELS, SWITCHBOARDS, MOTOR CONTROL CENTERS, TRANSFORMERS, EQUIPMENT DISCONNECTS AND STARTERS.

16. MAINTAIN THE DEDICATED ELECTRICAL EQUIPMENT SPACE DEFINED BY THE WIDTH / DEPTH OF ELECTRICAL EQUIPMENT MEASURED FROM THE FLOOR TO A HEIGHT 6'-0" ABOVE THE EQUIPMENT OR THE STRUCTURAL CEILING, WHICHEVER IS LOWER. SYSTEMS FOREIGN TO THE ELECTRICAL DISTRIBUTION SYSTEM ARE NOT ALLOWED IN THE DEDICATED ELECTRICAL SPACE INCLUDING; PIPING, ETC. 17. PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL

EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT 18. DO NOT SUPPORT EQUIPMENT, PIPING, OR FROM METAL DECKING OR OTHER NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE

CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS. 19. CONTRACTOR TO PROVIDE REQUIRED ACCEPTANCE TESTING BY A CERTIFIED ACCEPTANCE TEST TECHNICIAN PER T24 ENERGY REQUIREMENTS - REFER TO SHEET M0.4 PAGES 20-22

# PLUMBING SLOPE REQUIREMENTS: **BASED ON PLUMBING CODE: CPC-2019**

**SANITARY WASTE:** 1/4" PER FOOT **GREASE WASTE:** STORM (GRAVITY): **CONDENSATE AND INDIRECT DRAINAGE:** SANITARY AND GREASE VENT: DOMESTIC WATER:

1/4" PER FOOT 1/8" PER FOOT 1/8" PER FOOT

NO SPECIFIC PITCH, PITCH TO FIXTURES NO SPECIFIC PITCH, PITCH TO FIXTURES

	PLUMBING SHEET INDEX
P0.1	PLUMBING COVERSHEET
P0.2	SCHEDULES
P1.1	ENLARGED DEMOLITION UNDERFLOOR PLAN - SOUTH - PLUMBING
P1.2	ENLARGED DEMOLITION UNDEFLOOR PLAN - NORTH- PLUMBING
P1.3	ENLARGED DEMOLITION PLAN - SOUTH - PLUMBING
P1.4	ENLARGED DEMOLITION PLAN - NORTH- PLUMBING
P2.1	OVERALL FLOOR PLAN - PLUMBING
P2.2	ENLARGED REMODEL UNDERFLOOR PLAN - SOUTH - PLUMBING
P2.3	ENLARGED REMODEL UNDERFLOOR PLAN - NORTH - PLUMBING
P2.4	ENLARGED REMODEL FLOOR PLAN - SOUTH - PLUMBING
P2.5	ENLARGED REMODEL FLOOR PLAN - NORTH - PLUMBING
P3.1	ROOF PLAN - PLUMBING
P4.1	DETAILS
P4.2	DETAILS

- SWAY BRACING SIZE, LOCATION, SPACING, AND CONNECTIONS SHALL BE IN ACCORDANCE
- ATTACHMENT METHODS. LATERAL SWAY BRACING MAY BE OMITTED WHERE ROD TYPE HANGERS DO NOT EXCEED
- INSURANCE UNDERWRITER'S DESIGN CRITERIA AND THE NFPA STANDARDS SHALL B 6" IN OVERALL LENGTH ACCORDANCE WITH NFPA 13, SECTION 9.3.5.5.10. 4. SWAY BRACING SHALL BE REQUIRED ON ALL FEED MAINS AND CROSS MAINS 11. ALL BUILDING AREAS SHALL BE FULLY SPRINKLERED INCLUDING CANOPIES, WALKWA OVERHANGS, SOFFITS, AND BUILDING PROJECTIONS. ALL ACCESSIBLE COMBUSTIBLE
  - AND LARGER. LATERAL SWAY BRACES SHALL BE ABLE TO ACT AS LONGITUDINAL BRACES IF THEY ARE
- ROOM. COORDINATE EXACT SIGN LANGUAGE WITH AHJ. 13. WHERE FEASIBLE, INSTALL PIPES HIGH AS POSSIBLE TO AVOID CONFLICT WITH OTHER DISCIPLINES. 14. IF REQUIRED, INSTALL SYSTEM DRAINS AT LOW POCKET AREAS CONTAINING FIVE GALLONS OF WATER OR MORE, PROVIDE WITH ISOLATION VALVE AND THREADED HOSE

**DEFERRED FIRE PROTECTION GENERAL NOTES:** 

1. CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR

4. CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID

RESPONSIBLE FOR COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND

TAKES PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER IS THE

TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS

IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL

5. CENTER SPRINKLERS IN CEILING TILES IN BOTH DIRECTIONS IN ALL AREAS. IN AREAS WITH 2'X4' CEILING TILES CENTERING USING A 2'X2' CEILING PATTERN IS ACCEPTABLE SPRINKLER HEADS SHALL BE ALIGNED WITH OTHER SPRINKLER HEADS, LIGHTING,

6. NEW SPRINKLERS SHALL BE QUICK RESPONSE TYPE. UNLESS OTHERWISE NOTED. CONTRACTOR SHALL NOT MIX STANDARD RESPONSE SPRINKLERS WITH QUICK

7. PROVIDE COVERAGE ABOVE AND BELOW ALL DUCTWORK GREATER THAN 48" WIDE. 8. PROVIDE COVERAGE ABOVE (IF APPLICABLE) AND BELOW FLOATING CEILINGS, REF

9. CONTRACTOR TO DETERMINE EXACT NUMBER OF SPRINKLERS, PIPE SIZING, AND PIPE

COMPANY STANDARDS WHERE APPLICABLE. THE MORE STRINGENT OF THE OWNER'S

10. THE FIRE PROTECTION SYSTEM SHALL BE DESIGNED TO MEET OWNER'S INSURANCE

CONCEALED SPACES SHALL BE FULLY PROTECTED BY THE SPRINKLER SYSTEM.

12. VERIFY RISER ROOM HAS PROPER IDENTIFICATION SIGNAGE OUTSIDE THE FIRE RISER

2. CONTRACTOR TO COORDINATE, WITH OWNER, THE LOCATION OF NEW FIRE RISER.

3. ALL FIRE PROTECTION WORK SHALL BE BY A LICENSED C16 CONTRACTOR.

FULLY OPERATIONAL SYSTEMS. WHETHER SPECIFIED OR NOT.

DIFFUSERS, AND ANY OTHER FEATURES IN THE CEILING.

RESPONSE SPRINKLERS IN UNPARTITIONED SPACES.

ROUTING BEFORE BEGINING DEMOLITION WORK.

BASIS OF DESIGN.

TO ARCHITECTURAL PLANS.

USED. IF APPLICABLE.

- 15. MAIN PIPING PASSING BELOW SKYLIGHTS OR CLERESTORIES ARE NOT PERMITTED.
  16. FOLLOW STRUCTURAL DETAILS WHEN PENETRATING OR PASSING THROUGH STRUCTURAL ELEMENTS, ALTERNATE DESIGNS WILL NEED TO BE APPROVED THROUGH
- THE STRUCTURAL ENGINEER. 17. PROVIDE INTERMEDIATE TEMPERATURE SPRINKLER HEADS WHERE REQUIRED BY NFPA 13 UNLESS OTHERWISE 18. FINAL HEAD LOCATION, TYPE AND FINISH SHALL BE REVIEWED AND APPROVED BY THE
- 19. PAINT ALL EXPOSED PIPING TO MATCH BACKGROUND OR AS DIRECTED BY T ARCHITECT. 20. THE OWNER MUST BE NOTIFIED PRIOR TO EACH AND EVERY DRAINING OR RECHARGING OF THE SPRINKLER S
- 21. THE CONTRACTOR SHALL PREPARE A COORDINATED, HYDRAULICALLY CALCULATED, SET OF SHOP DRAWINGS AND SHALL OBTAIN APPROVAL FROM THE AUTHORIT HAVING JURISDICTION AND THE LOCAL FIRE DEPARTMENT PRIOR TO ANY INSTALLATION. 22. WHERE PIPE PASSES THROUGH HOLES IN PLATFORMS, FOUNDATIONS, WALL, O FLOORS, THE HOLES SHALL BE SIZED SUCH THAT DIAMETER OF THE HOLE I
- DMINALLY 2 INCHES LARGER THAN THE PIPE FOR 1" NOMINAL TO 3 ½" NOMINAL AND 4" LARGER THAN THE PIPE FOR PIPE 4" AND LARGER. TY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURA ALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW DRAWINGS. INCLUDING THOSE OF OTHER TRADES.

# **END OF LINE RESTRAINT:**

. WIRE USED FOR RESTRAINT SHALL BE LOCATED WITHIN 2 FT. OF A HANGER. THE HANGER CLOSEST TO A RESTRAINT SHALL HAVE A SURGE RESTRAINER TO RESIST UPWARD MOVEMENT OF THE BRANCH LINE.

		MAXIMUM SPA H LINE RESTR							
	SEISMIC COEFFICIENT (Cp)								
PIPE	Cp<0.50	0.5 <cp<u>&lt;0.71</cp<u>	Cp>0.71						
1" 1 1/4" 1 1/2" 2"	43'-0" 46'-0" 49'-0" 53'-0"	36'-0" 39'-0" 41'-0" 45'-0"	26'-0" 27'-0" 29'-0" 31'-0"						

E END SPRINKLER ON A LINE SHALL BE RESTRAINED AGAINST EXCESSIVE VERTICAL

D LATERAL MOVEMENT. S 4 FT. OR LONGER SHALL BE RESTRAINED AGAINST LATERAL MOVEMENT. 4. BRACES AND RESTRAINTS SHALL NOT OBSTRUCT SPRINKLERS.

# **SWAY BRACING NOTES:**

SEISMICALLY BRACE ALL REQUIRED PIPING IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 13 (2016 EDITION). CONTRACTOR TO PROVIDE CALCULATIONS.

WITH NFPA 13, SECTION 9.3.5. SEE DETAILS FOR SPACING, BRACE TYPE, AND

REGARDLESS OF SIZE AND ON ALL BRANCH LINES AND PIPING WITH A DIAMETER OF 2 1/2"

LOCATED WITH 24" ON THE CENTERLINE OF THE PIPING BRACED. BRACES AND RESTRAINTS SHALL NOT OBSTRUCT SPRINKLERS.

# **HANGER NOTES:**

ING OF SYSTEM PIPING SHALL BE PER NFPA 13, SECTION 9.1 & 9.2. BUILDING STRUCTURAL BEAMS SHALL BE ADEQUATE TO SUPPORT THE SYSTEM

SPRINKLER PIPING OR HANGERS SHALL NOT BE USED TO SUPPORT NON-SYSTEM COMPONENTS. THE DISTANCE BETWEEN A HANGER AND THE CENTERLINE OF AN UPRIGHT SPRINKLER SHALL BE LESS THAN 3 INCHES (76 MM). 3. HOLES THROUGH SOLID STRUCTURAL MEMBERS SHALL BE PERMITTED TO SERVE AS HANGERS FOR THE SUPPORT OF SYSTEM PIPING PROVIDED SUCH HOLES ARE

PERMITTED BY APPLICABLE BUILDING CODES AND THE SPACING AND SUPPORT PROVISIONS FOR HANGERS OF NFPA 13 ARE SATISFIED. 4. THE MAXIMUM DISTANCE BETWEEN HANGERS SHALL NOT EXCEED THAT SPECIFIED IN TABLE NFPA 13, 9.2.2.1(A), EXCEPT WHERE THE PROVISIONS OF NFPA 13, SECTION

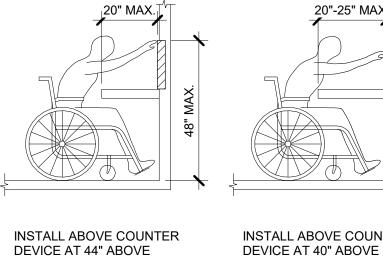
TABLE 9.2.2.	1(a) M <i>A</i>	AXIMUN	1 DISTA	NCE B	ETWEE	EN HAN	IGERS					
	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"	5"	6"	8"
STEEL PIPE EXCEPT THREADED LIGHTWALL	N/A	12'-0"	12'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0'
THREADED LIGHTWALL	N/A	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	N/A	N/A	N/A	N/A	N/A

5. THERE SHALL BE NOT LESS THAN ONE HANGER FOR EACH SECTION OF PIPE. EXCEPT WHERE SPRINKLERS AND MULTIPLE PIPE FITTINGS ARE SPACED LESS THAN 6 FT APART HANGERS SHALL BE SPACED UP TO A MAXIMUM OF 12'-0". HANGERS ARE NOT REQUIRED WHERE BRANCH LINES STARTER LENGTHS ARE LESS THAN 6'-0", UNLESS ON THE END LINE OF A SIDE FEED SYSTEM OR WHERE AN INTERMEDIATE CROSS MAIN HANGER HAS BEEN

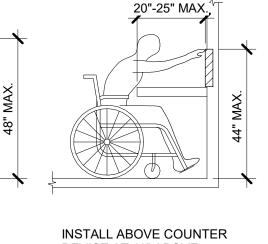
6. THE UNSUPPORTED LENGTH BETWEEN THE END SPRINKLER AND THE LAST HANGER ON THE LINE SHALL NOT BE GREATER THAN 36" FOR 1" PIPE, 48" FOR 1 1/4" PIPE, AND 60" FOR 1 1/2" OR LARGER PIPE. WHERE THE LIMITS ARE EXCEEDED. THE PIPE SHALL BE EXTENDED BEYOND THE END SPRINKLER AND SHALL BE SUPPORTED BY AN ADDITIONAL HANGER.

SPRINKLER DROP OR SPRIG SHALL NOT EXCEED 24" FOR STEEL PIPE. 8. LOCATION OF HANGERS ON MAINS SHALL COMPLY WITH NFPA 13, SECTION 9.2.4 FOR STEEL PIPE CROSS MAINS. A HANGER CAN BE INSTALLED BETWEEN EVERY TWO BRANCH LINES OR, ALTERNATIVELY, ON EACH BRANCH LINE AS NEAR AS POSSIBLE TO THE CROSS MAIN, WHILE OMITTING ONE INTERMEDIATE CROSS MAIN HANGER IN EACH BAY. THE OPTION TO OMIT THE INTERMEDIATE CROSS MAIN HANGER APPLIES TO THE LAST PIECE OF CROSS MAIN ONLY IF THE MAIN IS EXTENDED TO THE NEXT FRAMING MEMBER AND HANGER IS INSTALLED AT THAT POINT.

7. THE CUMULATIVE HORIZONTAL LENGTH OF AN UNSUPPORTED ARMOVER TO A SPRINKLER,

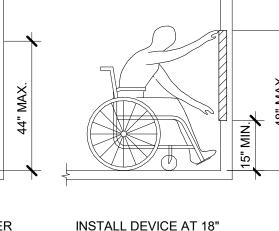


FINISHED FLOOR.



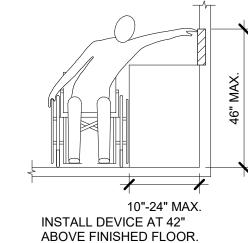
FINISHED FLOOR.

ADA GUIDELINES - FRONT ACCESS



ABOVE FINISHED FLOOR.







ADA GUIDELINES - SIDE ACCESS

ADA STANDARDS FOR ACCESSIBLE DESIGN

**GRAND TOTAL: 14** 

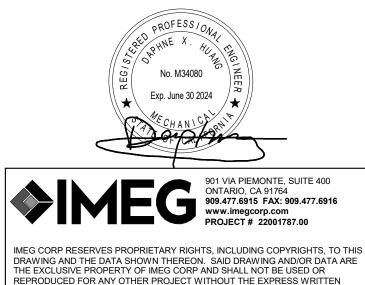
COLORADO RIVER STATION REMODEL 1111 BAILEY AVENUE NEEDLES, CA. 92363

SAN BERNARDINO COUNTY SHERIFF'S DEPARTMENT

WBSE #: 10.10.1220 CAFM #: NEE004

**KEY NOTES** 

CIP #: 22-030



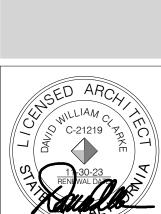
REFERENCE SCALE IN INCHES

PPROVAL AND PARTICIPATION OF IMEG CORP.

**P** (2)

**DECEMBER 15, 2022** 

REVISIONS



3022006 DRAWING NUMBER

			ON THICKNE	<i>33)</i>					
UCTIVITY RANGE	INSULATION MEAN		NOMINA	AL PIPE DIAMETE	ER (INCHES)				
BTU-INCH PER IR PER SQUARE	RATING	1/2" & 3/4"	1" & 1-1/4"	1-1/2" TO 3-1/2"	4" TO 6"	8" AND LARGER			
OOT PER °F)	TEMPERATORE (T)	II	INSULATION THICKNESS REQUIRED (IN INCHES)						
SPACE HEATING SYSTEMS (STEAM, STEAM CONDENSATE AND HOT WATER) AND SERVICE WATER HEATER SYSTEMS									
0.32-0.34	250	4.5	5.0	5.0	5.0	5.0			
0.29-0.32	200	3.0	4.0	4.5	4.5	4.5			
0.27-0.30	150	2.5	2.5	2.5	3.0	3.0			
0.25-0.29	125	1.5	1.5	2.0	2.0	2.0			
0.22-0.28	100	1.0	1.5	1.5	1.5	1.5			
	R PER SQUARE OOT PER °F)  SYSTEMS (STEAM 0.32-0.34 0.29-0.32 0.27-0.30 0.25-0.29	R PER SQUARE OOT PER °F)  SYSTEMS (STEAM, STEAM CONDENSA  0.32-0.34  0.29-0.32  0.27-0.30  150  0.25-0.29  125	R PER SQUARE OOT PER °F)  RATING 11/2 & 3/4  TEMPERATURE (°F)  SYSTEMS (STEAM, STEAM CONDENSATE AND HOT  0.32-0.34  250  4.5  0.29-0.32  200  3.0  0.27-0.30  150  2.5  0.25-0.29  125  1.5	R PER SQUARE OOT PER °F)  TEMPERATURE (°F)  TEMPERATURE (°F)  INSULATION T  SYSTEMS (STEAM, STEAM CONDENSATE AND HOT WATER) AND  0.32-0.34  250  4.5  5.0  0.29-0.32  200  3.0  4.0  0.27-0.30  150  2.5  2.5  0.25-0.29  125  1.5	R PER SQUARE OOT PER °F)  RATING TEMPERATURE (°F)    1/2 & 3/4   1 & 1-1/4   1-1/2 TO 3-1/2	R PER SQUARE OOT PER °F)  RATING TEMPERATURE (°F)    1/2 & 3/4   T & 1-1/4   1-1/2   10 3-1/2   4 10 6       INSULATION THICKNESS REQUIRED (IN INC.)  SYSTEMS (STEAM, STEAM CONDENSATE AND HOT WATER) AND SERVICE WATER HEATER S    0.32-0.34   250   4.5   5.0   5.0   5.0     0.29-0.32   200   3.0   4.0   4.5   4.5     0.27-0.30   150   2.5   2.5   2.5   3.0     0.25-0.29   125   1.5   1.5   2.0   2.0      1/2 & 3/4   T & 1-1/4   1-1/2   10 3-1/2   4 10 6     INSULATION THICKNESS REQUIRED (IN INC.)			

	NA	ATURAL GAS PIP (PER 2019 CPC T			CHEDI	JLE			
DI III DINIO		TOTAL 0404 0400	PIPE SIZE & GAS LOADS (CFH)						
BUILDING	LOCATION	TOTAL GAS LOADS	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"
EXISTING SIZING @ 7"W.C. & 100 LF	INTERIOR BUILDING	(N)260 CFH_(WH-1&2) + (E)516 CFH_EQUIPMENT = <u>776 CFH</u>	50	104	195	400	600	1160	1840

NEW GAS EQUIPMENT RECOMMENDED MINIMUM AND MAXIMUM PRESSURE 3.5"W.C. - 10.5"W.C. INLET PRESSURE: LESS THAN 2PSI, PRESSURE DROP: 0.5 IN. W.C., SPECIFIC GRAVITY: 0.60. REFER TO TABLE 1215.2(1) CPC 2019. THE EXISTING 2-1/2" GAS LINE HAS SUFFICIENT CAPACITY FOR THE NEW LOAD.

FIXTURE TYPE	COLD WATER SUPPLY FIXTURE UNIT (WSFU) PER CPC 2019	QTY.	(WSFU)	HOT WATER SUPPLY FIXTURE UNIT (WSFU) PER CPC 2019	QTY.	(WSFU)	DRAINAGE FIXTURE UNIT (DFU) PER CPC 2019	QTY.	(WS
FIXTURE BUILDING LO	ADS								•
WATER CLOSET	5	9	45	0	9	0	4	9	4
URINAL	4	1	4	0	1	0	2	1	
LAVATORY	1	9	9	1	9	9	1	9	
SINK	1.5	1	1.5	1.5	1	1.5	2	1	
SHOWER	2	3	6	2	3	6	2	3	
DRINKING FOUNTAIN	1	0	0	0	0	0	1	0	
MOP SINK	3	1	3	3	1	3	3	1	
HOSE BIBB	2.5	2	5	0	2	0	0	0	
FLOOR SINK	0	2	0	0	2	0	4	2	
FLOOR DRAIN	0	3	0	0	3	0	4	3	ŀ
DI III DINC LOADS	TOTAL DCW (V	VSFU)	73.5	TOTAL DHW (V	WSFU)	19.5	TOTAL SANITAR	Y (DFU)	
BUILDING LOADS	TOTAL DCW (	GPM)	-	TOTAL DHW (	(GPM)				

	FLOW RATE	VELOCITY	FIXTUR	E UNITS
*PIPE SIZE	(GPM)	(FT/SEC.)	FLUSH TANK	FLUSH VALVE
1/2"	1.9	2.6	-	
3/4"	4.9	3.2	4	
1"	10.0	3.9	12	-
1 1/4"	17.4	4.4	24	-
1 1/2"	27.0	4.9	46	10
2"	56.5	5.9	155	63
2-1/2"	100	6.7	380	245

PIPE MATERIAL: TYPE L COOPER MAXIMUM ACCEPTABLE PRESSURE LOSS: 3.0 PSI/100 FT.

MAXIMUM ACCEPTABLE VELOCITY: 6 FT./

TOTAL DEMAND <u>73.5</u> FIXTURE UNIT (FU)

\*THE EXISTING DOMESTIC COLD WATER SYSTEM SIZED @ 3.0 PSI/100 FT & 4 FT./ SEC VELOCITY. THE EXISTING 2-1/2" MAIN CAN ACCOMODATE THE NEW DOMESTIC WATER LOAD OF 52.5 FU.

	DOM	MESTIC HOT WATER SIZING					
*DIDE 017E	FLOW RATE	VELOCITY	FIXTURE UNITS				
*PIPE SIZE	(GPM)	(FT/SEC.)	FLUSH TANK	FLUSH VALVE			
1/2"	2.02	2.78	-	-			
3/4"	5.28	3.50	4	-			
1"	10.29	4.0	12	-			
1 1/4"	15.67	4.0	24	-			
1-1/2"	22.18	4.0	46	-			

PIPE MATERIAL: TYPE L COOPER							
MAXIMUM ACCEPTABLE PRESSURE LOSS: 3.0 PSI/100 FT.							
MAXIMUM ACCEPTABLE VELOCITY: 4 FT./ SEC							
*THE EXISTING DOMESTIC COLD WATER SYSTEM SIZED @ 3.0 PSI/100 FT & 4 FT./ SEC VELOCITY. THE EXISTING 2-1/2" MAIN CAN ACCOMODATE THE NEW DOMESTIC WATER LOAD OF 52.5 FU.							
HYDRAULIC WATER CALCULATION							
BUILDING DEMAND:							

	STREET PRESSURE READING	=	_50_	P31			
	TOTAL SYSTEM LENGTH:  TDL 100 x1.5 (FITTINGS) = 150 FEET						
PRESSURE LOSSES:							
	SITE METER	=	2	PSI			
	BACKFLOW DEVICE PRESSURE DROP	=	_7_	PSI			
	SITE STATIC <u>15</u> x0.433	=	6.5	PSI			
	RESIDUAL REQUIRED (FV)	=	30	PSI			
	TOTAL LOSSES	=	45.5	PSI			
	PRESSURE AVAILABLE FOR FRICTION LOSS:						
	PRESSURE AVAILABLE FOR LOSSES 50 - 45.5	=	4.5_	PSI			
	TOTAL DEVELOPED LENGTH 100 x1.5 (FITTINGS)	=	150	FEET			
	PSI LOSSES PER 100 FT.						
	<u>4.5</u> PSIx100'/ <u>150</u> FT.	=	_3_	PSI/100'			
	PIPING SIZED ON <u>3</u> PSI/100' PIPE FRICTION LOSS	&					
	MAX. <u>6</u> FT./SEC. VELOCITY						

PLUMBI	NG FIXTURE SCHEDULE	
	DESCRIPTION  AIR COMPRESSOR, RECIPROCATING TYPE, VERTICAL TANK, ASME INTERSTAGE PRESSURE RELIEF VALVE, ODP NEMA 1760 RPM ELECTRIC MOTOR, 5 MICRON INDUSTRIAL GRADE INTAKE FILTER, ASME/NB CERTIFIED RECEIVER, 0-300 PSIG AIR PRESSURE GAGE ON TANK. 60 GALLON TANK, DIMENSIONS 35"x33"x77", SHIPPING WEIGHT 509, 9.0 CFM CAPACITY @ 125 PSI.	MANF. & MODEL COMPRESSOR - GARDNER DENVER VR3F-6 INGERSOLL RAND \$83L3.
<u>CP-1</u>	ELECTRICAL VOLTAGES: SINGLE PHASE - 208, 3 HP  CIRCULATING PUMP - VARIABLE SPEED CONTROLLER WITH SETTINGS TO ADJUST AND MAINTAIN A CONSTANT: SPEED, FIXED PRESSURE, OR PROPORTIONAL PRESSURE. LEAD FREE BRONZE OR STAINLESS STEEL CONSTRUCTION, PERMANENTLY LUBRICATED SEALED BEARINGS, MECHANICAL SEAL, OIL LUBRICATED, ECM MOTOR WITH INTEGRATED VARIABLE SPEED CONTROL, FLANGED CONNECTIONS, RATED FOR 125	PUMP - GRUNDFOS (UPS15-55 SUC/TLC)
	PSIG AT 225°F, UL LISTED.  3 GPM @ 14 FEET OF HEAD. MOTOR SHALL BE 0.65 AMPS.  ELECTRICAL REQUIREMENTS - 120V, 1 PHASE CORD AND PLUG HARD-WIRE	
<u>ET-1</u>	EXPANSION TANK - WELDED BLACK STEEL CONSTRUCTION, [ASME STAMPED], GUARANTEED AIRTIGHT AND LEAKPROOF, STAINLESS STEEL SYSTEM CONNECTION, HEAVY DUTY BUTYL DIAPHRAGM AND RIGID POLYPROPYLENE LINER MECHANICALLY BONDED TO TANK TO PROVIDE A 100% NON-CORROSIVE WATER RESERVOIR, DIAPHRAGM AND LINER SHALL BE APPROVED FOR USE IN POTABLE WATER SYSTEMS, ALL WETTED COMPONENTS OF FDA APPROVED MATERIALS. PROVIDE STANDARD SCHRADER AIR VALVE FOR FIELD CHARGING. TANK SHALL COMPLY WITH FEDERAL ACT S.3874.	AMTROL (THERM-X-TROL), B&G (PT)
	MINIMUM TANK VOLUME TO BE 4.4 GALLONS MAXIMUM ACCEPTING FACTOR 0.73  TANK SHALL HAVE A WORKING TEMPERATURE OF 200°F AND A WORKING PRESSURE OF 125 PSIG. FACTORY PRE-CHARGED FOR SHIPPING.	
<u>FD-1</u>	FLOOR DRAIN - CAST IRON BODY, NICKEL BRONZE ADJUSTABLE TOP, 5" SQUARE, 2" BOTTOM OUTLET, SURFACE MEMBRANE CLAMP, DEEP SEAL TRAP.	
<u>F3-1</u>	FLOOR SINK - CAST IRON BODY, NICKEL BRONZE RIM AND GRATE, 12" SQUARE, 3" BOTTOM OUTLET, 6" DEEP RECEPTOR WITH STAINLESS STEEL MESH SEDIMENT BUCKET, ALUMINUM DOME STRAINER, ACID RESISTANT COATED INTERIOR, SEEPAGE FLANGE WITH CLAMP, DEEP SEAL TRAP.  FLOOR CLEANOUT - ADJUSTABLE, CAST IRON HOUSING, ANCHOR FLANGE, TAPERED THREAD PLUG, SECURED NICKEL BRONZE TOP. TOP	FLOOR SINK - SMITH (3151)  SMITH (4000)
	STYLE SHALL MATCH FLOOR FINISH AS FOLLOWS:  UNFINISHED FLOOR - ROUND SOLID SCORIATED TOP TILE OR TERRAZZO - ROUND RECESSED TOP CARPET - ROUND TOP WITH CARPET FLANGE.	SMITH (4000)
<u>L-1</u>	LAVATORY - ACCESSIBLE, WALL MOUNTED, WHITE VITREOUS CHINA, 20"x18", 4" HIGH CONTOURED BACKSPLASH, SINGLE FAUCET HOLE, DRILLED FOR CONCEALED ARM CARRIER.  LAVATORY TRIM - SENSOR ACTIVATED MIXING FAUCET, HARD-WIRED, BRASS CONSTRUCTION, CHROME-PLATED FINISH, CONVENTIONAL	LAVATORY - AMERICAN STANDARD 0356.421  LAVATORY TRIM - SYMMONS S696OE-035-SF278
	SPOUT WITH [VANDAL RESISTANT, LAMINAR FLOW OUTLET, SINGLE HOLE, 4" DECK PLATE, PERFORATED GRID STRAINER WITH 1-1/4" 17 GAUGE TAILPIECE, SOLID BRASS SOLENOID WITH BUILT-IN FILTER, SOLID BRASS THERMOSTATIC MIXING VALVE MEETING ASSE 1070 REQUIREMENTS WITH ADJUSTABLE TEMPERATURE LIMIT STOP AND INTEGRAL CHECK VALVES, WATERPROOF CONNECTORS AND CABLE, UL APPROVED TRANSFORMER.  ELECTRICAL REQUIREMENTS - 120 VAC INPUT	INSULATION KIT - PLUMBEREX PRO-EXTREME MODEL X4333
	MOUNT CONTROLS IN WATERPROOF VANDAL-RESISTANT ENCLOSURE BELOW LAVATORY. PROVIDE TRANSFORMER WITH CABLE EXTENSIONS AS REQUIRED OR PLUG-IN TRANSFORMER. MOUNT TRANSFORMER ABOVE CEILING OR IN ACCESSIBLE PIPE CHASE. COORDINATE LOCATION WITH ELECTRICAL CONTRACTOR. SELECT TRANSFORMER TO SERVE MAXIMUM NUMBER OF ELECTRONIC VALVES TO REDUCE AMOUNT OF TRANSFORMERS.	
	MAXIMUM FLOW TO BE 0.35 GPM IN COMPLIANCE WITH ENERGY POLICY ACT OF 2005 AND ASME/ANSI STANDARD A112.18.1M AND PROJECT WATER CONSERVATION REQUIREMENTS. FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. PROVIDE RESTRICTIVE DEVICE AS REQUIRED. MOUNT MIXING VALVE UNDER COUNTER/LAVATORY. MIXING VALVE SHALL NOT BE WYE PATTERN STYLE.	
	PROGRAMMING UNIT - HAND HELD, CAPABLE OF CHANGING SETTINGS, RUNNING DIAGNOSTICS, AND SCAN FAUCETS WITH ISSUES. PROVIDE ONE CONTROLLER FOR EVERY 25 FAUCETS.  INSULATION KIT - PRE-MANUFACTURED FOR P-TRAP, STOP VALVES AND SUPPLY LINES.	
	ACCESSORIES - QUARTER-TURN 3/8" CHROME PLATED HEAVY BRASS ANGLE SUPPLY LOOSE KEY STOPS, CHROME PLATED SOFT COPPER SUPPLY LINES, DRAIN AND OFFSET TAILPIECE, 1-1/4" 17 GAUGE CAST BRASS P-TRAP, SUPPORT CARRIER.  MOUNT LAVATORY WITH SUPPORT CARRIER BOLTED SECURELY TO FLOOR. TOP OF RIM SHALL BE AT 31" ABOVE FLOOR IN COMPLIANCE	
1.2	WITH LATEST ADA STANDARD. PROVIDE 29" MINIMUM CLEARANCE FROM FLOOR TO BOTTOM OF APRON IN COMPLIANCE WITH LATEST ANSI A117.1 AND ADA STANDARDS. ARMAFLEX WITH TAPE IS NOT ACCEPTABLE IN LIEU OF INSULATION KIT.  LAVATORY - COUNTER TOP MOUNTED, OVAL, SELF-RIMMING, WHITE VITREOUS CHINA, 20"x17", SINGLE FAUCET HOLE.	LAVATORY - AMERICAN STANDARD 0475.047
	LAVATORY TRIM - SENSOR ACTIVATED MIXING FAUCET, HARD-WIRED, BRASS CONSTRUCTION, CHROME-PLATED FINISH, CONVENTIONAL SPOUT WITH [VANDAL RESISTANT, LAMINAR FLOW OUTLET, SINGLE HOLE, 4" DECK PLATE, PERFORATED GRID STRAINER WITH 1-1/4" 17 GAUGE TAILPIECE, SOLID BRASS SOLENOID WITH BUILT-IN FILTER, SOLID BRASS THERMOSTATIC MIXING VALVE MEETING ASSE 1070 REQUIREMENTS WITH ADJUSTABLE TEMPERATURE LIMIT STOP AND INTEGRAL CHECK VALVES, WATERPROOF CONNECTORS AND CABLE, UL APPROVED TRANSFORMER.  ELECTRICAL REQUIREMENTS - 120 VAC INPUT	LAVATORY TRIM - SYMMONS S696OE-035-SF278 INSULATION KIT - PLUMBEREX PRO-EXTREME MODEL X4333
	MOUNT CONTROLS IN WATERPROOF VANDAL-RESISTANT ENCLOSURE BELOW LAVATORY. PROVIDE TRANSFORMER WITH CABLE EXTENSIONS AS REQUIRED OR PLUG-IN TRANSFORMER. MOUNT TRANSFORMER ABOVE CEILING OR IN ACCESSIBLE PIPE CHASE. COORDINATE LOCATION WITH ELECTRICAL CONTRACTOR. SELECT TRANSFORMER TO SERVE MAXIMUM NUMBER OF ELECTRONIC VALVES TO REDUCE AMOUNT OF TRANSFORMERS.	
	MAXIMUM FLOW TO BE 0.35 GPM IN COMPLIANCE WITH ENERGY POLICY ACT OF 2005 AND ASME/ANSI STANDARD A112.18.1M AND PROJECT WATER CONSERVATION REQUIREMENTS. FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. PROVIDE RESTRICTIVE DEVICE AS REQUIRED. MOUNT MIXING VALVE UNDER COUNTER/LAVATORY. MIXING VALVE SHALL NOT BE WYE PATTERN STYLE.  PROGRAMMING UNIT - HAND HELD, CAPABLE OF CHANGING SETTINGS, RUNNING DIAGNOSTICS, AND SCAN FAUCETS WITH ISSUES. PROVIDE ONE CONTROLLER FOR EVERY 25 FAUCETS.	
	INSULATION KIT - PRE-MANUFACTURED FOR P-TRAP, STOP VALVES, AND SUPPLY LINES.  ACCESSORIES - QUARTER-TURN 3/8" CHROME PLATED HEAVY BRASS ANGLE SUPPLY LOOSE KEY STOPS, CHROME PLATED SOFT COPPER SUPPLY LINES, 1-1/4" 17 GAUGE CAST BRASS P-TRAP.	
<u>MV-1</u>	ARMAFLEX WITH TAPE IS NOT ACCEPTABLE IN LIEU OF INSULATION KIT.  MIXING VALVE - THERMOSTATIC MIXING VALVE FOR EMERGENCY EYEWASH OR COMBINATION EYEWASH/FACEWASH FIXTURE, BRONZE BODY CONSTRUCTION, COLD WATER BYPASS, OUTLET THERMOMETER, COMBINATION CHECK STOPS OR SEPARATE SUPPLY CHECK VALVES AND	LEONARD (TA-LF), LAWLER (911E/F)
	SHUT OFF VALVES, MOUNTING BRACKET.  SUPPLY SHUT OFF VALVES SHALL BE LOCKED OPEN OR CONTRACTOR SHALL PROVIDE A LOCKING CABINET TO PREVENT UNAUTHORIZED CLOSURE. CABINET SHALL BE SURFACE MOUNTED 18 GAUGE PAINTED STEEL WITH 16 GAUGE LOCKING DOOR TO ENCLOSE VALVE, INLET CHECK STOPS, OUTLET THERMOMETER.	
	THERMOSTATIC MIXING AND PRESSURE REGULATING VALVES TO DELIVER 3 GPM OF TEMPERED WATER (60-100 DEGREE F) WITH 10 PSI PRESSURE DIFFERENTIAL.  UNIT SHALL BE ASSE 1071 LISTED AND APPROVED. VALVE SHALL COMPLY WITH FEDERAL ACT S.3874.	
	SHOWER VALVE - ACCESSIBLE, SINGLE HANDLE PRESSURE BALANCED MIXING FAUCET, BRASS OR BRONZE CONSTRUCTION, WASHERLESS DESIGN, OFF-COLD-HOT TEMPERATURE RANGE INDICATOR DIAL, POLISHED CHROME CAST METAL LEVER HANDLE, INTEGRAL CHECK STOPS, ADJUSTABLE TEMPERATURE LIMIT STOP. ASSE 1016 LISTED.	SYMMONS 9603PLR
	ACCESSORIES - CHROME-PLATED BRASS SHOWERHEAD WITH SWIVEL BALL JOINT, CHROME-PLATED BRASS ARM AND FLANGE, HAND HELD SHOWER WITH ON/OFF CONTROL AND NON-POSITIVE SHUT OFF, 69 72" VINYL CHROME-PLATED METAL HOSE AND QUICK DISCONNECT, CHROME-PLATED BRASS SWIVEL CONNECTOR, 30 36" CHROME-PLATED MOUNTING RAIL, CHROME-PLATED BRASS SUPPLY ELBOW FLANGE, CHROME-PLATED IN-LINE VACUUM BREAKER WITH CHROME-PLATED PIPING AND FLANGES, CHROME-PLATED BRASS 2 FUNCTION TRANSFER	
	INSTALL ALL CONTROLS BETWEEN 38" AND 48" ABOVE FINISHED FLOOR IN COMPLIANCE WITH LATEST ADA STANDARDS. INSTALL BOTTOM OF SHOWERHEAD AT [72]" ABOVE FINISHED FLOOR. SHOWERHEADS SHALL HAVE A MAXIMUM FLOW RATE OF 1.8 GALLONS (6.81 L) PER MINUTE MEASURED AT 80 PSI AND MUST COMPLY WITH DIVISION 4.3 OF THE CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN).I SET SAFETY LIMIT STOP TO 110 DEGREE F DISCHARGE.	
	SHOWER VALVE - SINGLE HANDLE PRESSURE BALANCED MIXING FAUCET, BRASS OR BRONZE CONSTRUCTION, POLISHED CHROME CAST METAL LEVER HANDLE, WASHERLESS DESIGN, OFF-COLD-HOT TEMPERATURE RANGE INDICATOR DIAL, INTEGRAL CHECK STOPS, ADJUSTABLE TEMPERATURE LIMIT STOP, ASSE 1016 LISTED.  ACCESSORIES - CHROME-PLATED PLASTIC SHOWERHEAD WITH SWIVEL BALL JOINT, CHROME-PLATED BRASS ARM AND FLANGE.	SYMMONS (BP-56-1)
	INSTALL BOTTOM OF SHOWERHEAD AT [72]" ABOVE FINISHED FLOOR. SHOWERHEADS SHALL HAVE A MAXIMUM FLOW RATE OF 1.8 GALLONS (6.81 L) PER MINUTE MEASURED AT 80 PSI AND MUST COMPLY WITH DIVISION 4.3 OF THE CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN).SET SAFETY LIMIT STOP TO 110 DEGREE F DISCHARGE.	
<u>3-1</u>	SINK - ACCESSIBLE, SELF-RIMMING SINGLE COMPARTMENT WITH FAUCET DECK, 18 GAUGE TYPE 304 STAINLESS STEEL, 16" (SIDE-TO-SIDE) x 13.5" (FRONT-TO-BACK) OVERALL SIZE, 17" x 22" x 6" DEEP BOWL, COMPLETELY UNDERCOATED, 3-1/2" DIAMETER DRAIN OUTLET LOCATION OFF-CENTERED REAR IN BOWL, PERFORATED TYPE 304 STAINLESS STEEL GRID STRAINER. REMOVABLE TYPE 304 STAINLESS STEEL BASKET STRAINER WITH NEOPRENE STOPPER.	SINK - AMERICAN STANDARD (4285.300), FAUCET - SYMMONS (S3510STSPD15)
	SINK TRIM - SINGLE HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, NOMINAL 10" HIGH-RISE SWING SPOUT, CERAMIC CARTRIDGE, NOMINAL 8" REACH, PULL DOWN SPRAY HOSE WITH AERATOR STREAM / SPRAY SELECTOR, LEVER HANDLE.	
	MAXIMUM FLOW TO BE 2.2 GPM IN COMPLIANCE WITH ENERGY POLICY ACT OF 2005 AND ASME/ANSI STANDARD A112.18.1M. FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. PROVIDE RESTRICTIVE DEVICE AND ESCUTCHEON PLATE AS REQUIRED. ACCESSORIES - OFFSET 1-1/2" 17 GAUGE CHROME-PLATED BRASS TAILPIECE AND P-TRAP, QUARTER-TURN BALL VALVE TYPE 3/8" CHROME-PLATED BRASS ANGLE SUPPLIES WITH LOOSE KEY STOPS, CHROME-PLATED SOFT COPPER SUPPLY LINES.  INSULATION KIT - PRE-MANUFACTURED FOR P-TRAP, STOP VALVES, AND SUPPLY LINES.	
<u>TP-1</u>	TRAP PRIMER - PRESSURE DROP ACTIVATED, 1/2" MALE NPT INLET AND 1/2" FEMALE NPT OUTLET, BUILT-IN AIRGAP, REMOVABLE FILTER SCREEN, ASSE 1018 LISTED.	TRAP PRIMER - PPP (P1-500) & DU-4
	REQUIRES NO ADJUSTMENTS OR PRE-CHARGE.  DISTRIBUTION SYSTEM - TRAP PRIMER DISTRIBUTION UNIT TO SERVE UP TO 4 TRAPS.	
	WATER HAMMER ARRESTER – PISTON TYPE, PRE-CHARGED WITH 60 PSIG AIR, LEAD FREE, COPPER BODY, BRASS OR HIGH HEAT POLY-PROPYLENE PISTON WITH DUAL EPDM O-RING SEALS LUBRICATED WITH FDA APPROVED SILICONE LUBRICANT. PDI CERTIFIED, A.S.S.E. 1010 APPROVED FOR SEALED WALL INSTALLATION, RATED FOR 1-11 FIXTURE UNITS.	PPP (SC SERIES)
	INSTALL PER MANUFACTURER'S RECOMMENDATIONS.	

COLORADO RIVER STATION REMODEL 1111 BAILEY AVENUE NEEDLES, CA. 92363

SAN BERNARDINO COUNTY SHERIFF'S DEPARTMENT

> CIP #: 22-030 **KEY NOTES**

WBSE #: 10.10.1220

CAFM #: NEE004



REFERENCE SCALE IN INCHES 

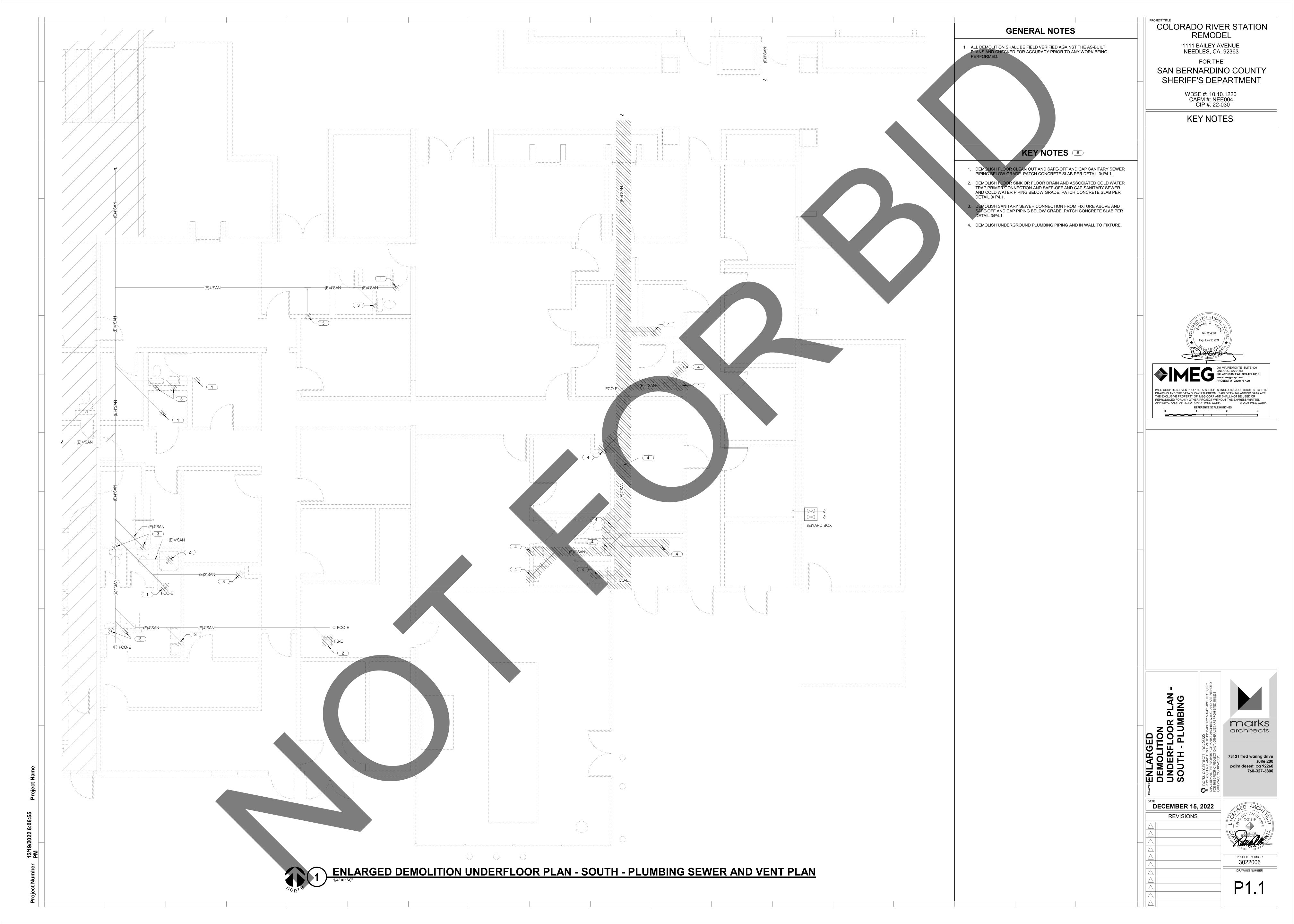
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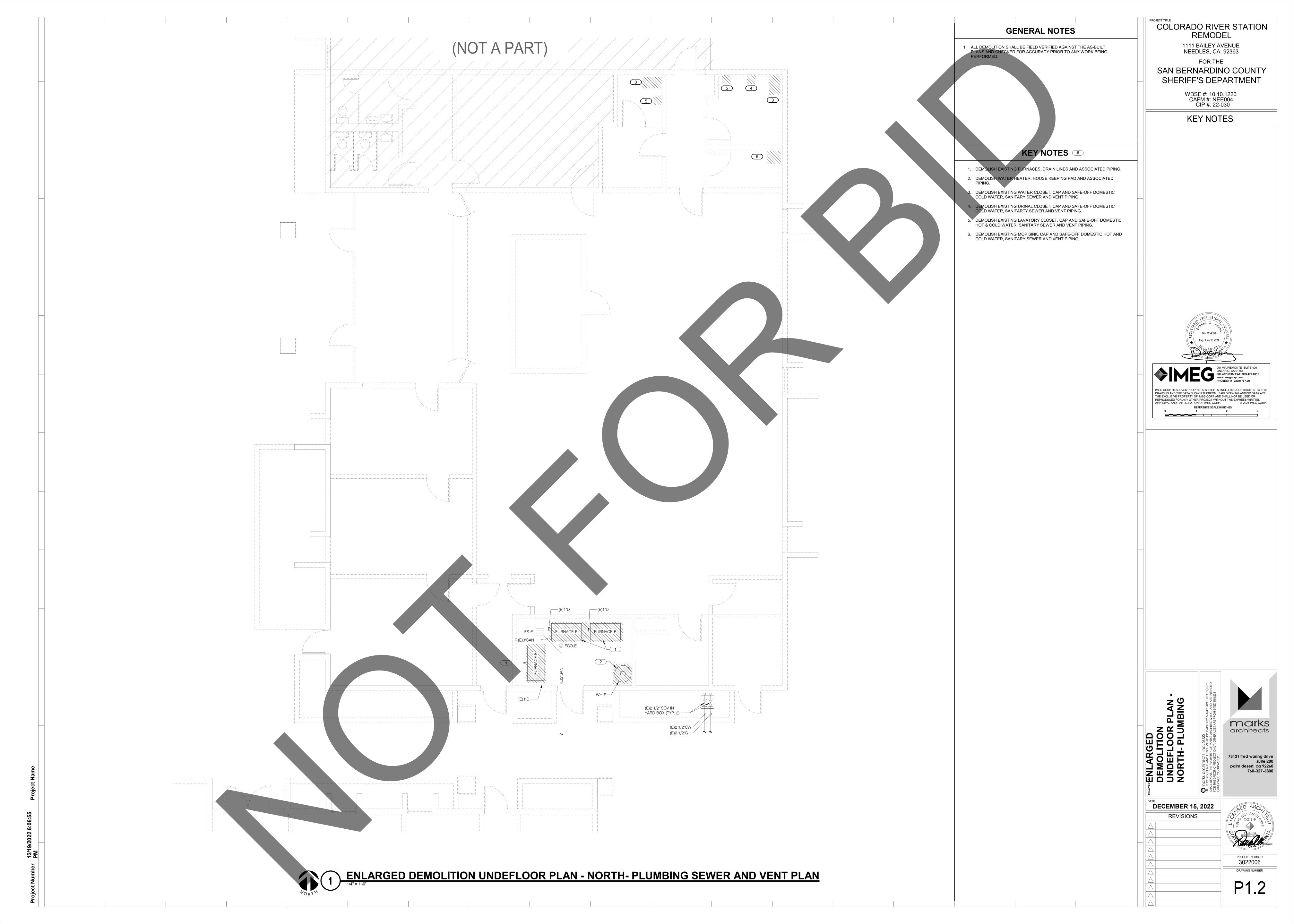
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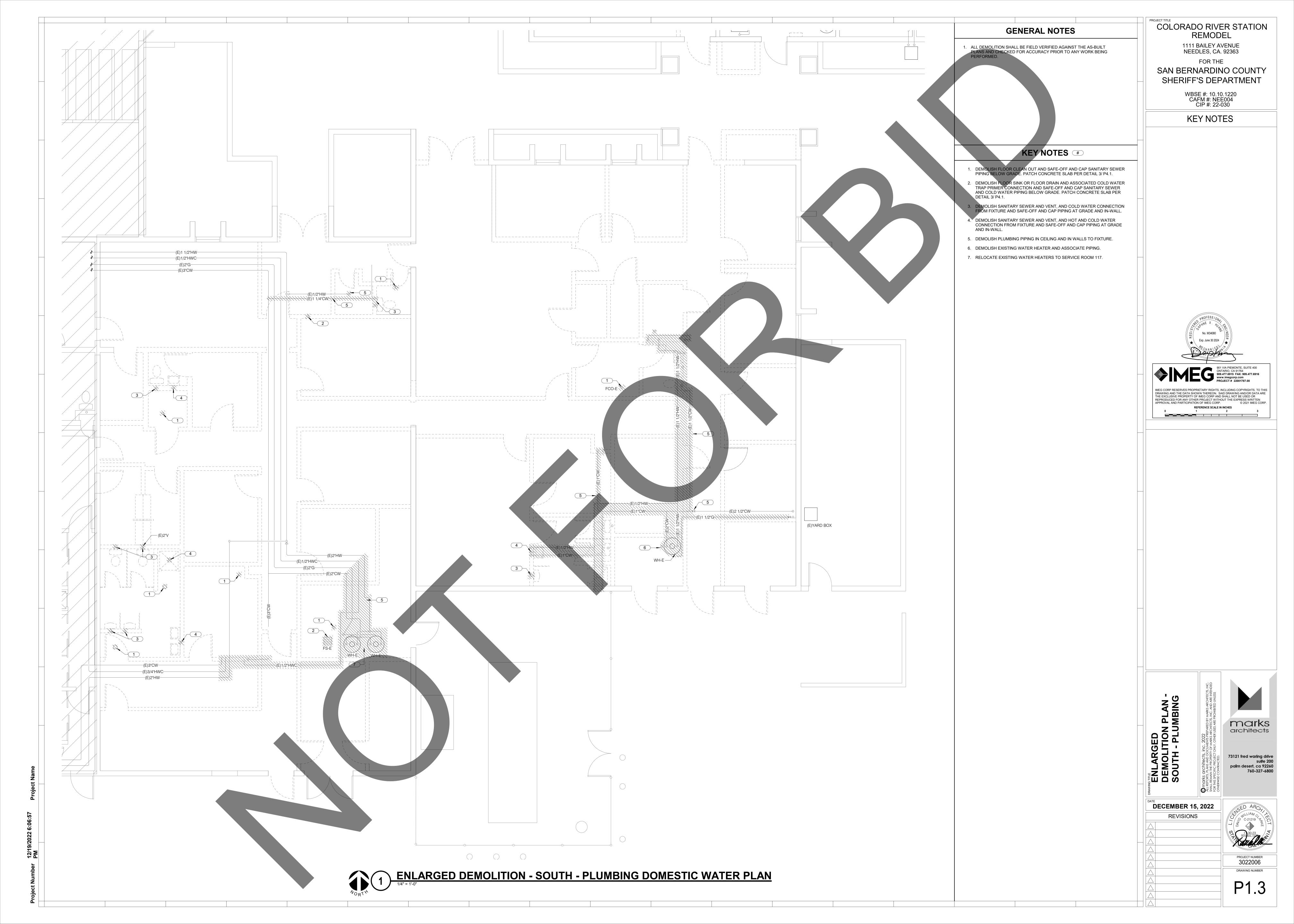
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**DECEMBER 15, 2022 REVISIONS** 

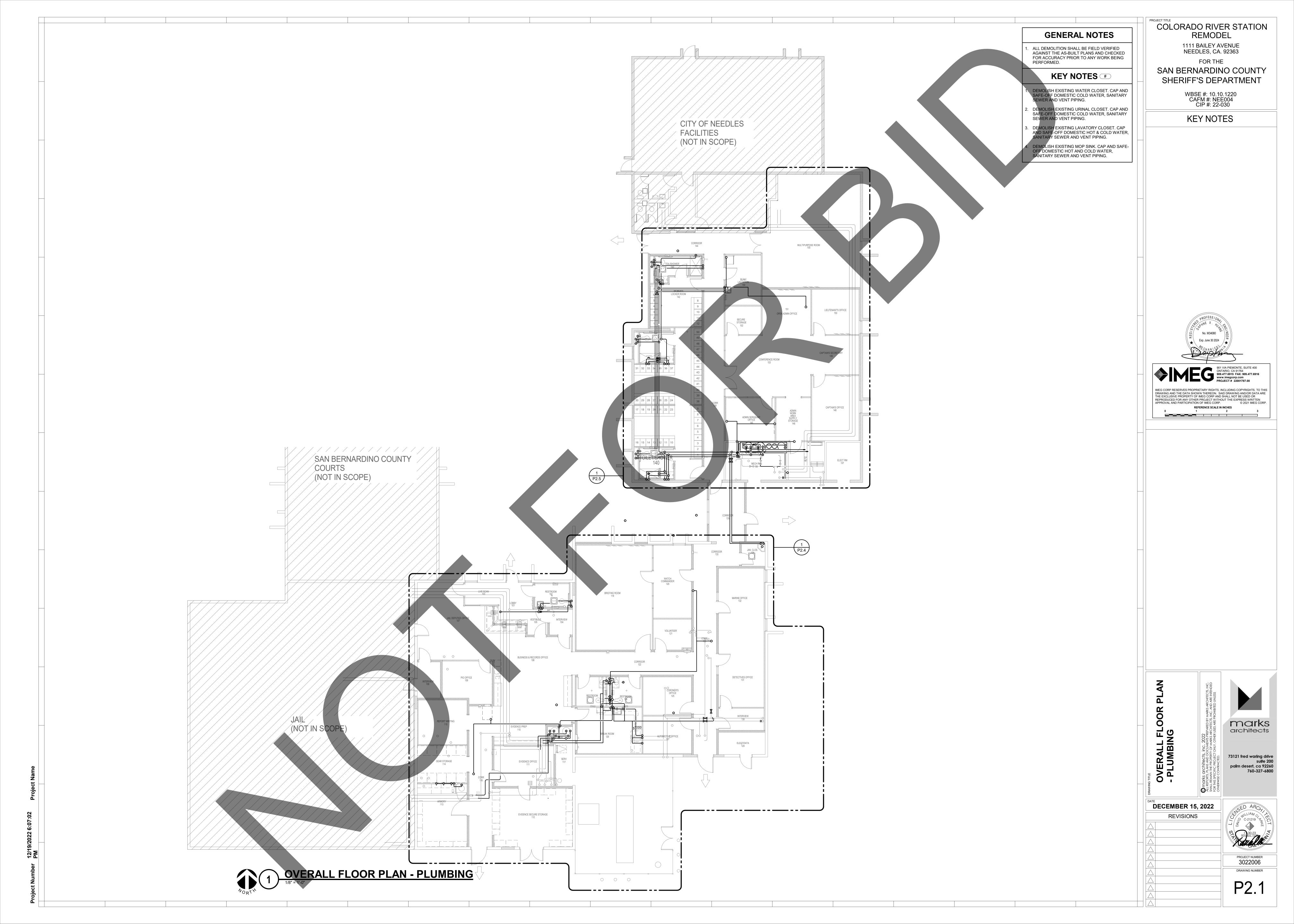
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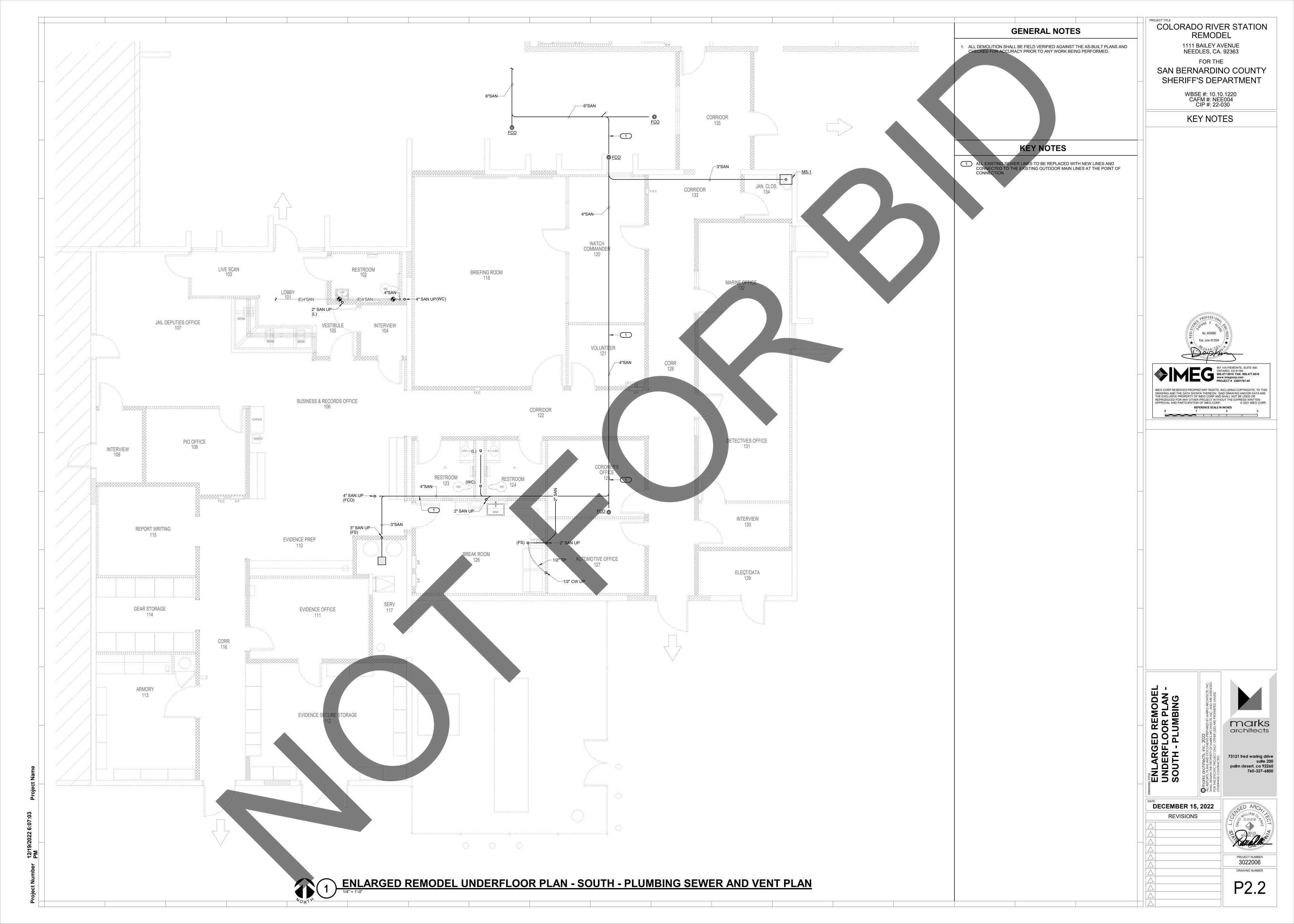


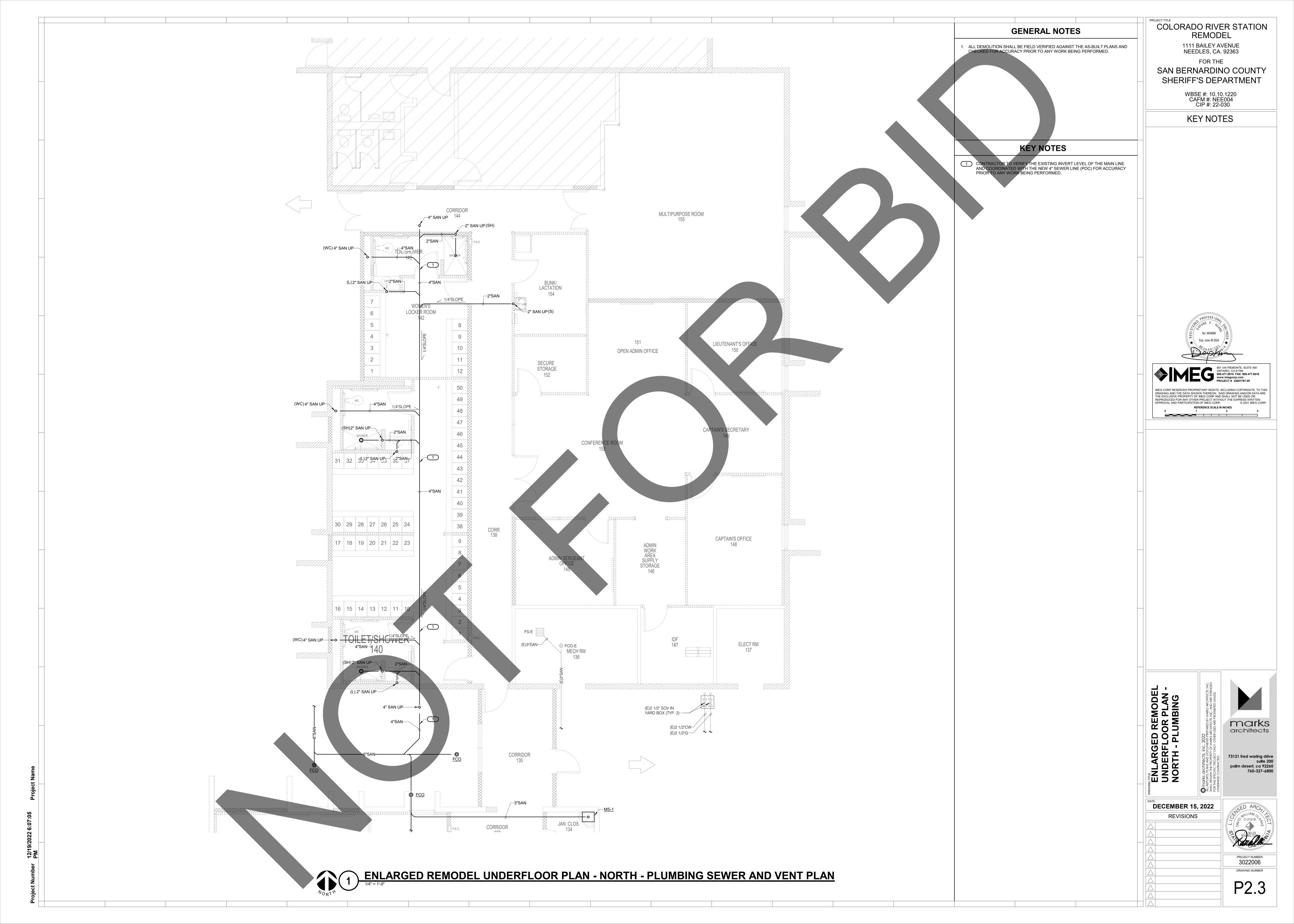


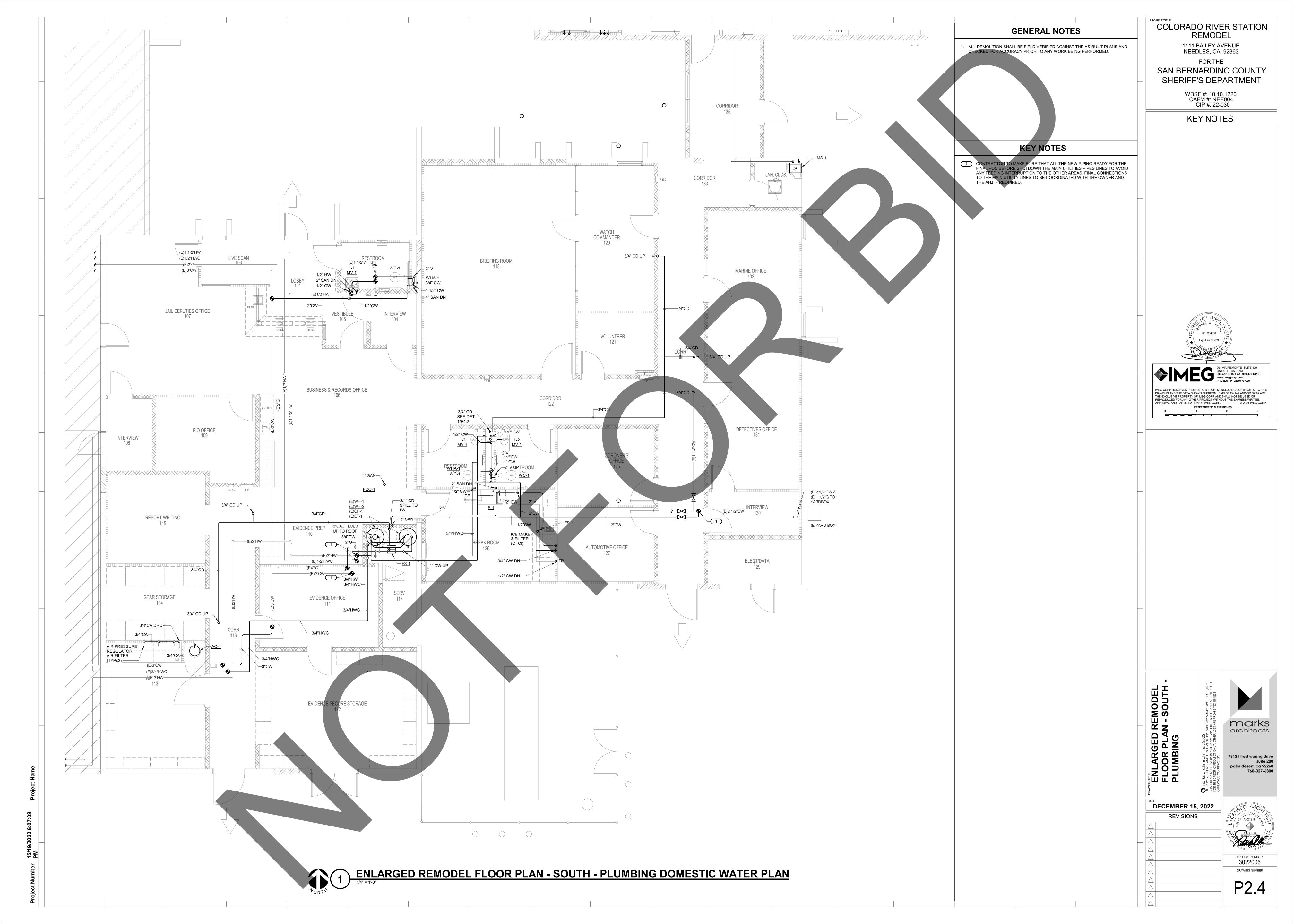


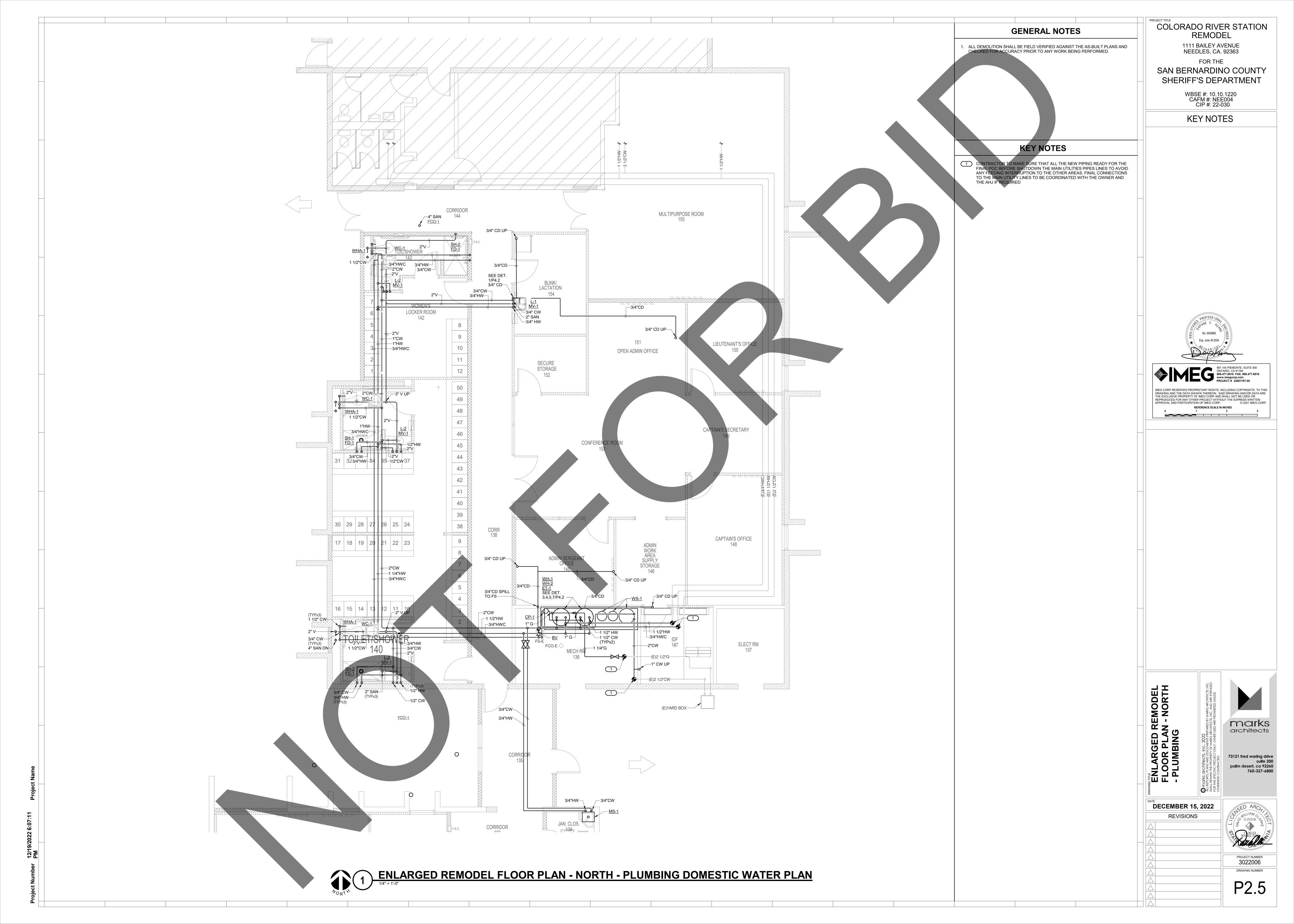


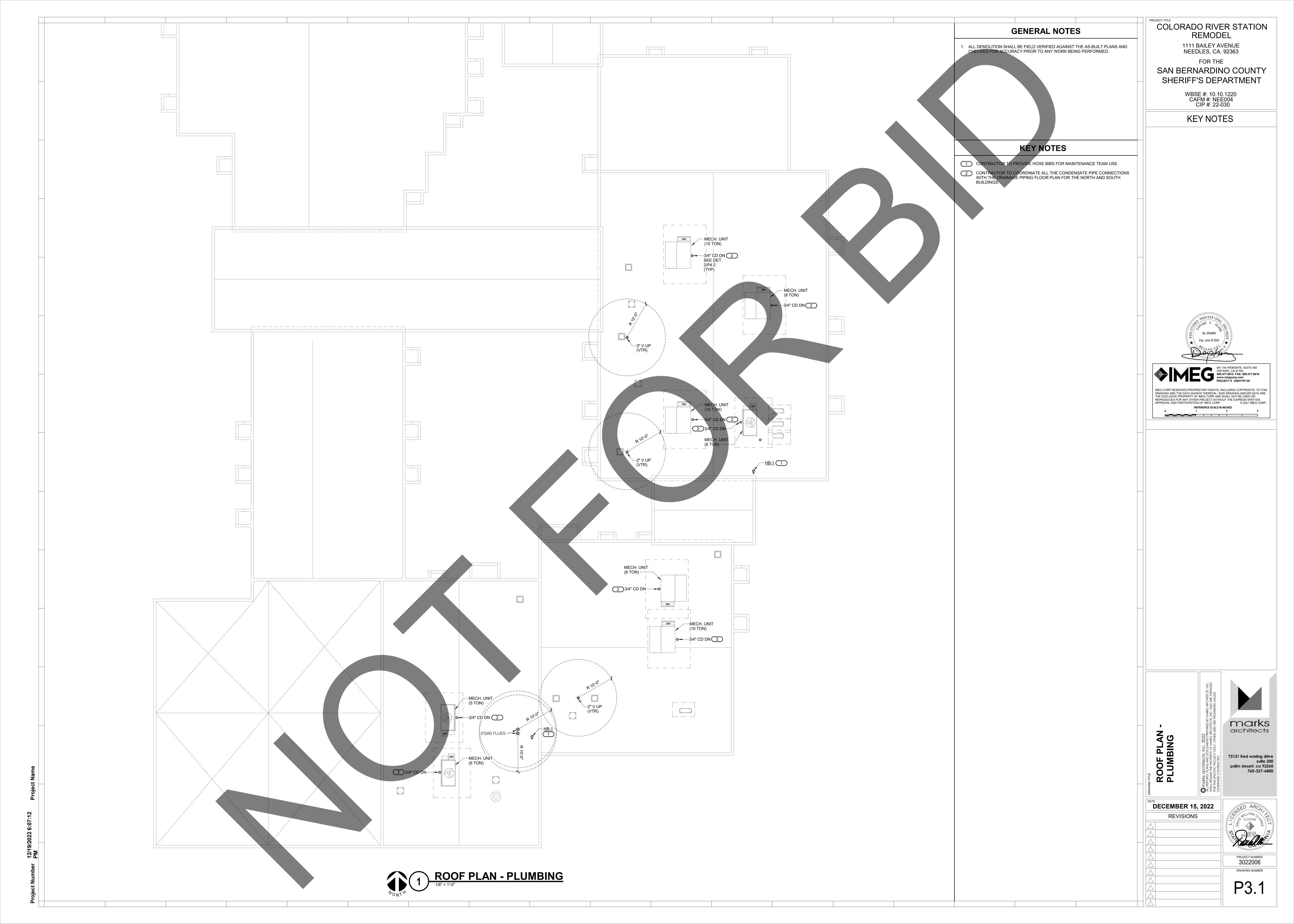


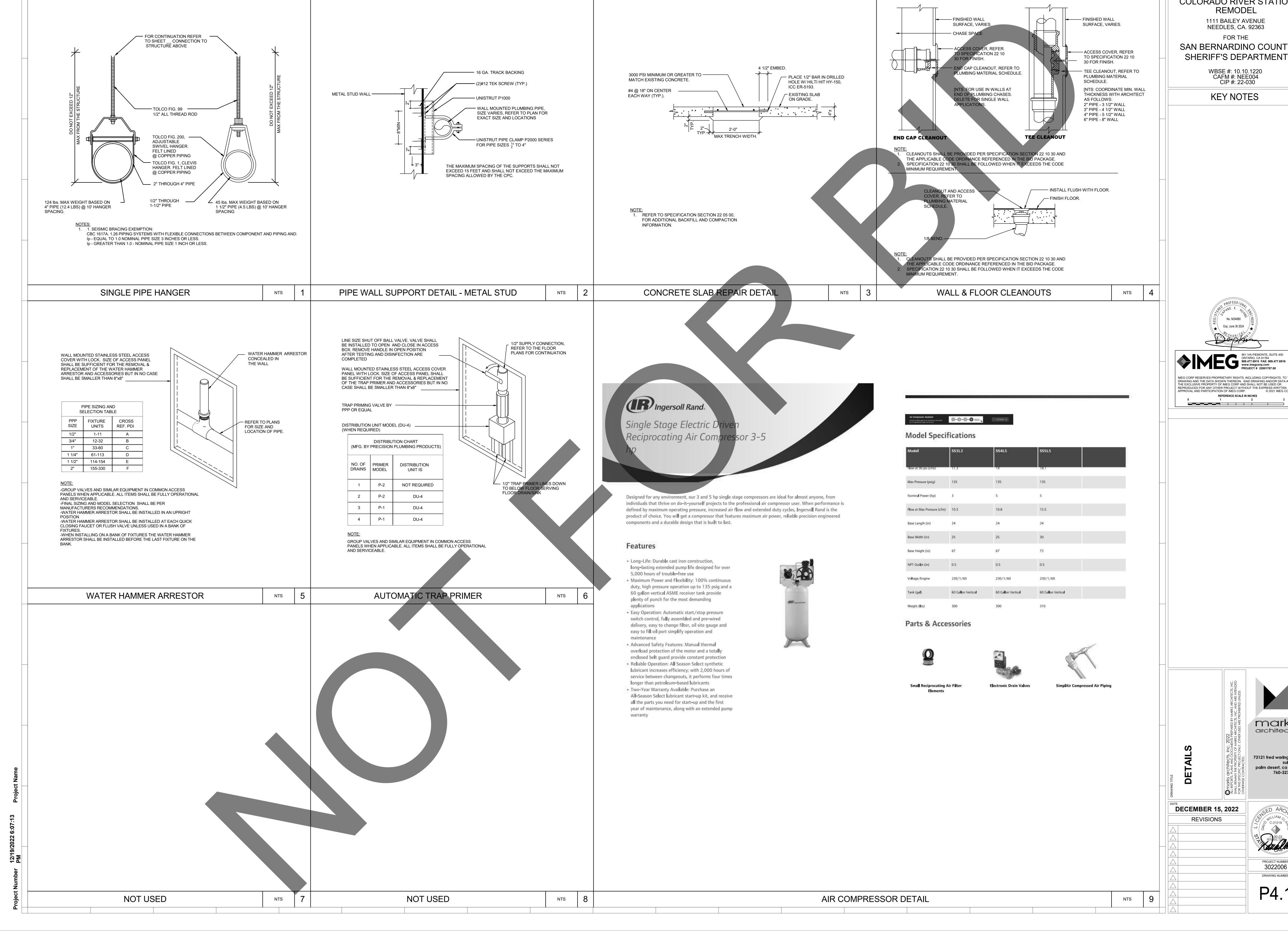












COLORADO RIVER STATION REMODEL 1111 BAILEY AVENUE NEEDLES, CA. 92363 FOR THE

SAN BERNARDINO COUNTY SHERIFF'S DEPARTMENT

**KEY NOTES** 

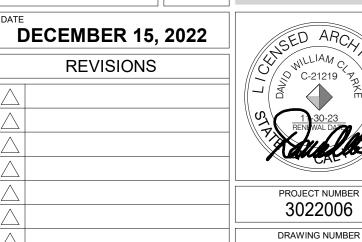
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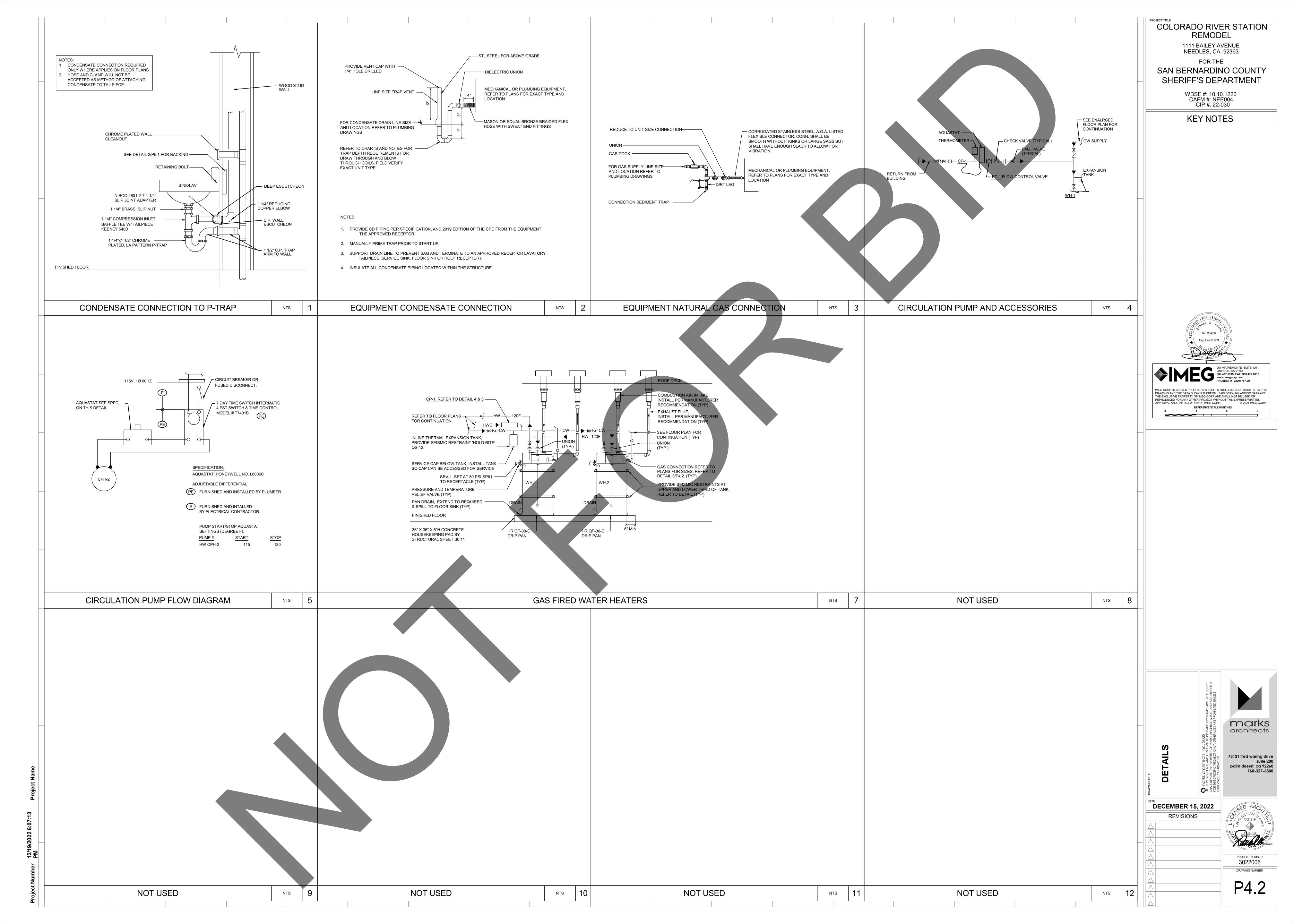
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REFERENCE SCALE IN INCHES

marks architects 73121 fred waring drive suite 200 palm desert, ca 92260





### **GENERAL NOTES:**

ALL SYMBOLS AND ABBREVIATIONS LISTED MAY NOT BE APPLICABLE TO THIS PROJECT. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE FOR MORE COMPLETE DESCRIPTION AND ITEMS. ALL SYMBOLS AND ABBREVIATIONS REFER TO TECHNOLOGY SHEETS ONLY AS DEFINED ON

THE SHEET INDEX. REFER TO THE TECHNOLOGY NOTES FOR ADDITIONAL INFORMATION. ALL SYMBOLS LISTED ABOVE ARE FOR REFERENCE ONLY. REFER TO PLANS AND LINE TYPE KEY FOR NEW, EXISTING TO REMAIN AND TO BE REMOVED ITEMS FOR ADDITIONAL

## **APPLICABLE CODES AND STANDARDS:**

2019 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 1

2019 CALIFORNIA BUILDING CODE (CBC)

CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 2 ( 2018 INTERNATIONAL BUILDING CODE (IBC) w/ 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA ELECTRICAL CODE (CEC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 3 ( 2017 NATIONAL ELECTRICAL CODE (NEC) W/ 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA ENERGY CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 6

2019 CALIFORNIA FIRE CODE (CFC) CALIFORNIA CODES OF REGULATIONS (CRR) TITLE 24, PART 9

( 2018 INTERNATIONAL FIRE CODE (IFC) W/ 2019 CALIFORNIA AMENDMEN (S)

2019 CALIFORNIA EXISTING BUILDING CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 10 ( 2018 INTERNATIONAL EXISTING BUILDING CODE (IEBC))

2019 CALIFORNIA REFERENCES STANDARDS CODE

CALIFORNIA DOE OF REGULATIONS (CCR) TITLE 24, PART 12 AMERICANS WITH DISABILITIES ACT (ADA)

TITLE II - ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES (ADAG) 1990 STATE FIRE MARSHAL REGULATIONS AND AMENDMENTS TO-DATE

CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, CALIFORNIA STATE

ACCESSIBILITY STANDARDS CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 19 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL GREEN), PART II, TITLE 24 C.C.R

NFPA 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS 2016 EDITION (CA AMENDED)

NFPA 14 STANDARDS FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS 2016 EDITION

# NFPA 17 STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS 2017 EDITION

NFPA 17A STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS 2017 EDITION NFPA 20 STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION

NFPA 22 STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION 2013 EDITION

NFPA 24 STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES 2016 EDITION (CA AMENDED)

NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE 2016 EDITION (CA AMENDED)

35 AND CALIFORNIA FIRE CODE (CFC) CHAPTER 80

NFPA 80 STANDARD FOR FIRE DOORS AND OTHER OPENINGS PROTECTIVES 2016 EDITION NFPA 2001 STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS 2015 EDITION (CA AMENDED)

NFPA 300 STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT 2015 (R2010) UL 464 AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING

ACCESSORIES 2003 EDITION UL 521 STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS 1999

UL 1971 STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED 2002 (R2012)

ICC 300 STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2019 CBC (SFM) CHAPTER

**ELECTRICAL SYMBOL LIST DESCRIPTION:** SYMBOL: JUNCTION BOX, WALL  $(\mathsf{J})$ JUNCTION BOX, CEILING FLOOR BOX 2 GANG FLOOR BOX (1 POWER, 1 DATA)  $\Box$ PANELBOARD, RECESSED PANELBOARD, SURFACE FUSED DISCONNECT SWITCH, SINGLE POLE, THERMAL OVERLOAD SWITCH, WALL OCCUPANCY SENSOR LED DIMMER, WALL LED DIMMER, WALL OCCUPANCY SENSOR (LS) DAYLIGHT LEVEL SENSOR **PHOTOCELL** OCCUPANCY SENSOR - DUAL TECHNOLOGY DUPLEX RECEPTACLE, 125V DUPLEX RECEPTACLE, OCCUPANCY CONTROLLED, 125V DUPLEX GFI RECEPTACLE, 125V QUAD RECEPTACLE, 125V QUAD RECEPTACLE, OCCUPANCY CONTROLLED, 125V QUAD GFI RECEPTACLE, 125V SECURITY CREDENTIAL READER (WALL)

	LIGHTING SYMBOL LIST
SYMBOL:	DESCRIPTION:
	LINEAR LUMINAIRES
	TROFFER
$\triangle$	WALL SCONCE LUMINAIRE
$\circ$	DOWNLIGHT LUMINAIRE
<b>&lt;</b> O	AIMABLE OR WALL WASH LUMINAIRE
• •	INDUSTRIAL LUMINAIRE
오모	WALL BRACKET LUMINAIRE
<b>□</b> -•	POLE MOUNTED LUMINAIRE
	SINGLE FACE EXIT SIGN
	DOUBLE FACE EXIT SIGN
<b>∜ √ ⊘</b>	WALL/CEILING EMERGENCY EXIT SIGN
4	EMERGENCY UNIT

ELECTRICAL ABBREVIATION KEY											
ABBR:	DESCRIPTION:										
AFF	ABOVE FINISHED FLOOR										
С	CONDUIT										
GFI	GROUND FAULT INTERRUPTER										
N.C.	NORMALLY CLOSED										
NIC	NOT IN CONTRACT										
N.O.	NORMALLY OPEN										
SV	SOLENOID VALVE										
TYP	TYPICAL										
UON	UNLESS OTHERWISE NOTED										

LUMINAIRE SYMBOL KEY											
DESCRIPTION:											
NORMAL BRANCH LUMINAIRE											
EMERGENCY BRANCH LUMINAIRE UNSWITCHED LEAD FOR EMERGENCY BATTERY BACK AND EMERGENCY GENERATOR											

	VIEW KEY	
NAME - LEVEL N 10'-0" - HEIGHT PROJEC	ABOVE	INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL
	INDICATES	S DIRECTION OF TRUE NORTH
	PLAN OR D	DETAIL NUMBER
	PLAN OR D	DETAIL NAME
NORTH 1	VIEW NAI 1/8" = 1'-0" PLAN OR I	DETAIL SCALE
SIM	- INDICATES SIMILAR DETA IN MULTIPLE LOCATIONS	IL REFERENCED SIM
	- DETAIL REFERRED TO BY	•
M101	- SHEET DETAIL IS LOCATE ON	T101 3
LINE TYPE AND TAG KEY:		
NEW WORK BY THIS CONTRA	ACTOR (WIDE LINE)	

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)
EXISTING
EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)
EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)
HALFTONING DOES NOT MODIFY SCOPE.
'TAG'-E TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING
TAG UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST

INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

---- EXISTING TO BE REMOVED (SHORT DASHED PATTERN)

## **TECHNOLOGY GENERAL NOTES:**

1. ##-###-# INDICATES TECHNOLOGY EQUIPMENT SCHEDULE ITEM LABELED AS "EQUIPMENT

2. REFER TO TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR FULL DESCRIPTIONS AND MANUFACTURERS OF ALL DEVICES.

TECHNOLOGY MOUNTING SUBSCRIPT KEY: MOUNT AT +6" TO CENTERLINE ABOVE COUNTER OR BACKSPLASH

MOUNT ORIENTED HORIZONTALLY MOUNT IN CASEWORK MOUNT IN MODULAR FURNITURE

MOUNT IN SURFACE RACEWAY A SLASH IS USED BETWEEN TWO SUBSCRIPTS, E.G., A/H.

## **TECHNOLOGY DEMOLITION NOTES**

1. THE DRAWINGS INDICATE EXISTING ITEMS TO BE REMOVED. THE DRAWINGS ARE INTENDED TO INDICATE THE SCOPE OF WORK REQUIRED AND DO NOT INDICATE EVERY BOX, CONDUIT, OR WIRE THAT MUST BE REMOVED. THE CONTRACTOR SHALL VISIT THE

SITE PRIOR TO SUBMITTING A BID AND VERIFY EXISTING CONDITIONS. ITEMS (i.e. SPEAKERS, SWITCHES, ETC.) REMOVED AND NOT RELOCATED REMAIN THE PROPERTY OF THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF MATERIAL THE OWNER DOES NOT WANT TO REUSE OR RETAIN. (i.e., FOR

MAINTENANCE PURPOSES). 3. EXISTING TO REMAIN DEVICES WITHIN OR ADJACENT TO THE PATH OF CONSTRUCTION SHALL BE PROTECTED IN PLACE. DEVICES THAT MUST BE REMOVED SHALL BE TESTED PRIOR TO REMOVAL, PROTECTED FROM DAMAGE, AND RE-INSTALLED IN ITS ORIGINAL LOCATION DURING THE NEW CONSTRUCTION PHASE OF THE PROJECT.

4. OBTAIN APPROVAL FROM THE OWNER BEFORE TURNING OFF THE POWER TO EQUIPMENT, SYSTEMS, PANELS, ETC. COORDINATE ALL OUTAGES WITH OWNER. CONDUIT CONCEALED IN WALL CONSTRUCTION MAY BE ABANDONED IN PLACE IF NOT AFFECTED BY OTHER CONSTRUCTION.

5. ALL CONDUIT SHALL BE REMOVED WHERE WALLS ARE BEING REMOVED. WHERE CONDUIT IS IN THE CONCRETE SLAB, CUT OFF FLUSH, PULL OUT WIRE, AND PLUG. WHERE CONDUIT IS RUN EXPOSED, ALL ASSOCIATED CLAMPS, SUPPORTS, HANGERS. ETC., SHALL ALSO BE REMOVED

6. COORDINATE ALL WORK WITH OTHER CONTRACTORS AT THE JOB SITE BEFORE REMOVING EXISTING EQUIPMENT AND INSTALLING NEW ITEMS. 7. EXISTING CONDUIT IN GOOD CONDITION, MAY BE REUSED IN PLACE. RELOCATING EXISTING CONDUIT SHALL NOT BE ALLOWED. BONDING CONDUCTORS SHALL BE INSTALLED IN ALL REUSED CONDUIT TO ASSURE PROPER GROUND PATH. 8. EQUIPMENT REMOVAL IN CERTAIN LOCATIONS MAY REQUIRE THE INSTALLATION OF A

JUNCTION BOX TO RECONNECT CIRCUITS THAT REMAIN IN OPERATION. EXTEND CONDUIT AND WIRING AS REQUIRED TO MAINTAIN POWER TO REMAINING EQUIPMENT DEVICES TO BE REMOVED SHALL HAVE ALL CONNECTED WIRING REMOVED TO THE

10. DEVICES NOT TO BE REMOVED SHALL BE PROTECTED FROM THE ENVIRONMENT, AND ALL ASSOCIATED CABLE/RACEWAYS ARE TO REMAIN AND BE PROTECTED. T.C. SHALL BE RESPONSIBLE FOR REPAIR OF ANY INTERRUPTIONS TO PROTECTED DEVICES. 11. REFER TO SPECIFICATIONS SECTION 27 05 00 AND 27 05 05 FOR ADDITIONAL

# **TECHNOLOGY INSTALLATION NOTES:**

1. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO THE ADA GUIDELINES FOR ALL CONFIGURATION DETAILS

ON THIS PAGE FOR ADDITIONAL INFORMATION. 2. CONCEAL ALL CONDUIT IN WALLS, PARTITIONS, ABOVE CEILING, IN FLOOR SLAB, ETC. UNLESS OTHERWISE INDICATED ON THE PLANS OR IN THE SPECIFICATIONS. CONDUIT IN MECHANICAL ROOMS AND STORAGE ROOMS WITHOUT CEILINGS MAY BE EXPOSED BUILDING STRUCTURE. BOXES LOCATED ON OPPOSITE SIDES OF NON-RATED WALLS SHALL BE OFFSET A MINIMUM. OF 6" HORIZONTALLY. BOXES ON OPPOSITE SIDES OF FIRE RATED WALLS SHALL BE

OFFSET A MINIMUM OF 24" HORIZONTALLY. "THRU-THE-WALL" BOXES SHALL NOT BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER 4. VERIFY ALL FURNITURE, MODULAR FURNITURE, AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND REVIEWED SHOP DRAWINGS. PRIOR TO MA

THE ACTUAL TELECOMMUNICATIONS INSTALLATION, ADJUST OUTLETS OR CONNECTION

LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT 5. TELECOMMUNICATIONS EQUIPMENT SHALL BE MOUNTED TO ALLOW ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF TELECOMMUNICATION DEVICES ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR

6. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALI OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THI EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED ( SEALED INTO OPENINGS. ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHAL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF

THROUGH-PENETRATION FIRESTOPS. REFER TO 27 05 03 AND 28 05 03 FOR ADDITIONAL INFORMATION AND REQUIREMENTS SPECIFIC TO FIRESTOPPING THE TECHNOLOGY CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF THE CEILINGS, CEILING TILES, AND CEILING GRID ASSOCIATED WITH THE AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR

9. ALL LADDER RACK SIZES ARE AS DEFINED ON THE DRAWINGS. REFER TO SPECIFICATION SECTION 27 05 28 AND FOR APPROVED MANUFACTURERS AND INSTALLATION REQUIREMENTS.

10. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO THE WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES ESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE FINISH. [NTD: EDIT TO MATCH SCOPE]

MOUNT ALL TELECOMMUNICATION OUTLETS AT +18" FROM FLOOR (CENTERLINE , UNLESS OTHERWISE NOTED. OUTLETS MAY BE SURFACE MOUNTED WHEN SPECIFIED EXPOSED. BACKBOXES FLUSH WITH WALL. ALL BACKBOX HEIGHTS ARE TO CENTERLINE ION, UNLESS OTHERWISE N

IDE RACEWAY AND BOXES LISTED FOR THE INSTALLED ENVIRONMENT. SEAL CEWAY AND BOX FROM WATER AND MOISTURE AT TRANSISTION BETWEEN DIFFERENT /ÎRONMENTAL CONDITIONS SUCH AS INTERIOR/EXTERIOR, TEMPERATURE CHANGES,

SUGGESTED MATRIX OF RESPONSIBILITY

#### FURNISHED INSTALLED BY: BY: NOTES: ECHNOLOGY ROUGH-IN, REFER TO T-SERIES E.C. E.C. TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR DEFINITION NFORMATION OUTLET FACEPLATES. OWNER OWNER N/A JACKS, AND TERMINATIONS CONDUIT SLEEVES (WHEN SHOWN ON T-SERIES E.C. E.C. CONDUIT SLEEVES (NOT SHOWN BUT OWNER OWNER REQUIRED FOR PROPER INSTALLATION OF SYSTEM) TELECOMMUNICATION SYSTEMS T-SERIES ROUGH-IN ELECOMMUNICATION EQUIPMENT T-SERIES LADDER RACK T-SERIES GROUNDING LUGS ON TECHNOLOGY T-SERIES E.C. FOLIPMENT BONDING SYSTEM FOR TECHNOLOGY T-SERIES E.C. 6. 7. E.C. SYSTEM, REFER TO SPECIFICATION SECTION 27 05 26 FOR DEFINITION CONNECTION OF TECHNOLOGY T-SERIES E.C. BONDING SYSTEM TO THE ELECTRICAL GROUND SYSTEM NE VOLTAGE POWER (+120V OR E-SERIES RFATER) NE VOLTAGE POWER (NOT SHOWN N/A OWNER OWNER BUT REQUIRED FOR PROPER **INSTALLATION OF SYSTEM)** LINE VOLTAGE POWER FOR DOOR ARCH-SERIES HARDWARE POWER SUPPLIES LOW VOLTAGE CABLING FOR OWNER OWNER TECHNOLOGY SYSTEMS CABLE HANGERS AND SUPPORTS OR OWNER OWNER OTHER CABLE ROUTING METHODS OTHER THAN CONDUIT AND CABLE TELECOMMUNICATIONS CABLING AND OWNER ERMINATIONS

#### SUGGESTED MATRIX OF RESPONSIBILITY NOTES LOCATIONS OF TELECOMMUNICATIONS ROUGH-INS SHALL BE INDICATED BY THE INFORMATION OUTLET SYMBOLS ON THE DRAWINGS. REFER TO THE TECHNOLOGY SYMBOL LIST FOR

INCLUDES BACKBOXES AND CONDUIT REQUIRED FOR THE TECHNOLOGY SYSTEMS INSTALLATION. THE E.C. SHALL BASE THE BID ON THE BASIS OF DESIGN SHOWN ON THE

CONTRACT DOCUMENTS. ALL CHANGES TO THE SLEEVES, BACKBOXES, CONDUITS, AND POWER REQUIRED BECAUSE OF THE T.C.'S SELECTION OF AN ALTERNATE ACCEPTABLE MANUFACTURER OR FROM SYSTEM CONFIGURATIONS THAT ARE LEFT TO THE CHOICE OF THE CONTRACTOR SHALL BE INCLUDED IN THE T.C.'S BID. THIS BID SHALL INCLUDE INSTALLATION BY A LICENSED ELECTRICIAN. UNLESS TRADE RULES DICTATE OTHERWISE.

FURNISHED AS PART OF THE EQUIPMENT WHEN POSSIBLE, OR FURNISHED TO THE E.C. FOR INSTALLATION IN THE FIELD. INCLUDES ALL CONDUCTORS, GROUND BARS, AND TERMINATIONS FOR THE COMPLETE

BONDING SYSTEM REQUIRED BY THE SPECIFICATIONS. REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS OF PANELS AND SWITCHBOARDS SHOWN IN THE TECHNOLOGY BONDING RISER DIAGRAM AND TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.

# **ELECTRICAL RENOVATION NOTES:**

THESE NOTES APPLY TO ALL ELECTRICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, LIGHTING, POWER, AND SYSTEMS. 1. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING

2. NOT ALL EXISTING EQUIPMENT, LUMINAIRES, AND CONDUIT ARE SHOWN. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS WITH NEW WORK BEFORE STARTING WORK.

B. FIELD VERIFY THE AVAILABLE CLEARANCES FOR CABLE TRAY, BUSWAY AND CONDUITS BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.

4. EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF THEIR WORK AND SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO BIDDING IF OTHER UTILITIES ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO THEIR AREA OF WORK.

5. EACH CONTRACTOR SHALL CUT AND PATCH ROOFS, WALLS, AND FLOORS ASSOCIATED WITH THEIR WORK. EACH CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS. CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE ARCHITECT/ENGINEER OF AFFECTED AREAS PRIOR

BIDDING

WHERE EXISTING ELECTRICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH N EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, CONDUIT, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING ELECTRICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DU

### **ELECTRICAL LIGHTING DEMOLITION NOTES:** THE ELECTRICAL LIGHTING DRAWINGS INDICATE EXISTING ELECTRICAL ITEMS TO BE

REMOVED. THE DRAWINGS ARE INTENDED TO INDICATE THE SCOPE OF WORK REQUIRED

AND DO NOT INDICATE EVERY BOX, CONDUIT, OR WIRE THAT MUST BE REMOVED. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING A BID AND VERIFY EXISTING EQUIPMENT REMOVAL IN CERTAIN LOCATIONS MAY REQUIRE THE INSTALLATION OF A

JUNCTION BOX TO RECONNECT CIRCUITS THAT REMAIN IN OPERATION. EXTEND CONDUIT AND WIRING AS REQUIRED TO MAINTAIN POWER TO REMAINING EQUIPMENT BALLASTS MANUFACTURED PRIOR TO 1980 CONTAIN PCBs AND SHALL BE DISPOSED OF BY

A FEDERAL OR STATE E.P.A. APPROVED METHOD AND IN ACCORDANCE WITH SPECIFICATIONS. HID AND FLUORESCENT LAMPS CONTAIN MERCURY AND SHALL BE DISPOSED OF BY A

REUSE EXISTING CONDUIT, CIRCUITS AND LIGHTING CONTROL WHERE POSSIBLE. PROVID

FEDERAL OR STATE E.P.A. APPROVED METHOD AND IN ACCORDANCE WITH

NEW CONDUIT AND WIRE WHERE SHOWN, MISSING OR REQUIRED TO INSTALL THE NE

WHERE REMOVED EXTERIOR LIGHT FIXTURE IS NOT BEING REPLACED. PR RPROOF GROMMETS, SEALS OR PLUGS TO COVER EXISTING HOLES IN POLES. VERIFY MANUFACTURERS INSTALLATION GUIDELINES WITH EXISTING FIELD CONDITIONS

PRIOR TO BIDDING AND ORDERING NEW LIGHT FIXTURES AND INSTALLATION MATERIAL. MATCH EXISTING PAINTED SURFACES. WHERE REPLACED LUMINAIRE DOES NOT FULLY COVER EXISTING JUNCTION BOX OR PAINTED SURFACE. PROVIDE CUSTOM BACK PLATE WHERE NECESSARY TO COVER ANY FIELD CONDITIONS THAT WOULD ALLOW INTRUSION OF WATER AND CAULK WHERE NECESSARY.

9. REFER TO 26.51.00 SPECIFICATIONS FOR COMMISSIONING OF FIXTURES.

DINATE EXISTING LIGHTING CONTROL AND REPROGRAM PHOTOCELLS AS RY TO MEET EXISTING CONTROL SEQUENCES. VERIFY WITH OWNER ANY

11. VERIFY WITH EXISTING CONDITIONS PRIOR TO REMOVING ALL FIXTURES WITH A QUARTZ RESTRIKE. IF THE QUARTZ RESTRIKE IS A SEPARATE CIRCUIT, NOTIFY THE ENGINEERING

### TYPICAL REMODEL:

OWNER FOR ATTIC STOCK. CONFIRM WITH OWNER PRIOR TO DISPOSAL IF THE LAMPS, LENS OR SUBSET OF LUMINAIRES SHOULD BE TURNED OVER FOR ATTIC STOCK.

REMOVE EXISTING LUMINAIRES AND WALL SWITCHES WHERE SHOWN. LOCATE AND IDENTIFY ELECTRICAL CIRCUIT SERVING REMOVED LUMINAIRES FOR REUSE WITH NEW

COORDINATE HOURS OF ACCESS WITH OWNER.

EXISTING EMERGENCY LIGHTING AND EXIT SIGNAGE SHALL REMAIN.

REMOVE EXISTING LUMINAIRE AND PREPARE FOR INSTALLATION OF NEW LUMINAIRE IN SAME LOCATION OR NEW LOCATION. REFER TO E2.1 FOR NEW WORK.

MATCH EXISTING FACEPLATE FINISH AND TYPE FOR ALL LOCATIONS WHERE NEW WALL CONTROL DEVICE IS BEING INSTALLED.

7. WHERE WALL SWITCH DEVICE IS REMOVED AND NOT REPLACED. PROVIDE WITH BLANK

EXPOSED 3/4" CONDUIT TO NEW OR EXISTING FIXTURES OR DEVICES IS ACCEPTABLE AS LONG AS IT IS INSTALLED IN A NEAT AND ORDERLY METHOD AND MEETS ADOPTED CODES. COORDINATE NEW RUNS WITH OWNER PRIOR TO INSTALLATIONS.

REUSE EXISTING CONDUIT, WIRE, CONTROL AND JUNCTION BOXES. PROVIDE NEW IF REQUIRED TO INSTALL THE NEW LUMINAIRE.

10. PROVIDE (1) UNSWITCHED LEG FROM PANEL SERVING THE EMERGENCY FIXTURES TO THE SENSOR LEG SERVING THE NEW BATTERY BACK UP IN NEW LUMINAIRES.

 CONNECT NEW LUMINAIRES TO CIRCUIT THAT SERVED PREVIOUSLY REMOVED LUMINAIRE USING 2#12 &1#12 GND IN 3/4" C. EXTEND CONDUIT AND CONDUCTORS AS REQUIRED TO MAKE CONNECTION. CONDUIT IN GOOD CONDITION SHALL BE REUSED IN PLACE.

EXISTING CEILING TILES WHERE APPLICABLE. PROVIDE NEW TO MATCH EXISTING IF

12. NEW OCCUPANCY SENSORS TO BE INSTALLED IN A MANUAL ON/AUTO OFF' CONFIGURATION. 13. REPLACE CEILING TILES WITH LIKE IN AREAS WITH A REDUCTION IN LUMINAIRE. REUSE

REVISED LUMINAIRE LAYOUT IN AREAS WITH A LAYIN CEILING. 14. COORDINATE LOCATIONS OF NEW LUMINAIRES WITH EXISTING DUCT, PIPING, STRUCTURAL AND CEILING MOUNTED DEVICES.

REQUIRED. ADJUST AND MOVE AIR RETURN GRILLS AS REQUIRED TO COORDINATE WITH

# **ELECTRICAL GENERAL NOTES:**

{L###} INDICATES THE LIGHTING SEQUENCE OF OPERATION FOR THE SPACE. REFER TO THE LIGHTING SEQUENCE OF OPERATION MATRIX ON SHEET **E0.4**.

"EM" INDICATES LUMINAIRE IS SWITCHED/CONTROLLED DURING NORMAL OPERATION AND OPERATES FROM EMERGENCY GENERATOR (EXTEND UNSWITCHED CIRCUIT LEG TO

ED LUMINAIRE OR DEVICE INDICATES LUMINAIRE OR DEVICE IS CONNECTED TO AN GÉNCY CIRCUIT.

REFER TO SHEET E0.5 FOR LIGHTING CONTROL ONE-LINE DIAGRAM.

REFER TO SHEET E0.4 FOR LUMINAIRE SCHEDU PROVIDE SEPARATE CONTROL OF EACH CONTROLLED ZONE. LUMINAIRES ASSOCIATED WITH THE SAME ZONE SHALL OPERATE TOGETHER WITHIN THE SAME PROGRAMMED SCENE.

ANCY/OCCUPANCY SENSOR LAYOUT: SENSORS ARE SHOWN ON THE PLANS FOR DESIGN INTENT AND MAY NOT REPRESENT EVERY DEVICE. PROVIDE MANUFACTURER SPECIFIC FLOOR PLAN LAYOUTS SHOWING LOCATION, ORIENTATION, AND COVERAGE AREA OF EACH CONTROL DEVICE, SENSOR, AND CONTROLLER/INTERFACE. AREAS REQUIRING MULTIPLE SENSOR DEVICES FOR APPROPRIATE COVERAGE, SUBMIT SPECIFIC MANUFACTURER-APPROVED SENSOR LAYOUT AS AN OVERLAY DIRECTLY ON THE PROJECT DRAWINGS, EITHER IN PRINT OR APPROVED ELECTRONIC FORM.

F1 = FIXTURE T 1 = CIRCUIT NUMBER

= SWITCH DESIGN = SUBSCRIPT (IF APPLICABLE) Z = ZONE DESIGNATION

\*IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS ORMATION. EX: F1 / 1 / a / NL

**DEVICE KEY:** 

\*IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS

INFORMATION. EX: A / 1 MOUNT AT +6" TO CENTERLINE ABOVE COUNTER OR BACKSPLASH

MOUNT AT CEILING MOUNT ORIENTED HORIZONTALLY MOUNT IN CASEWORK

MOUNT IN MODULAR FURNITURE MOUNT IN SURFACE RACEWAY EWC ELECTRIC WATER COOLER

# **ELECTRICAL INSTALLATION NOTES:**

1. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO THE ADA GUIDELINES FOR ALL CONFIGURATION DETAILS ON THIS PAGE FOR ADDITIONAL INFORMATION. CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE WITH NUMBERING ON THE PANEL PROVIDED. COMMON NEUTRALS MAY NOT BE USED FOR

. **EMERGENCY** BRANCH WIRING FOR FEEDERS AND BRANCH CIRCUITS SHALL BE ROUTED IN SEPARATE RACEWAY, JUNCTION BOXES, PULL BOXES, AND CABINETS. WIRING FOR EACH BRANCH SHALL BE INDEPENDENT FROM OTHER BRANCHES, INCLUDING THE NORMAL

BRANCH CIRCUITS. BALANCE THE LOAD ON PANEL AS EVENLY AS POSSIBLE BETWEEN EACH

DIMENSION), EXCEPT WHERE OTHERWISE NOTED. DEVICES MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED. FLUSH MOUNT ALL DUPLEX RECEPTACLES AND TECHNOLOGY OUTLETS AT +18" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. RECEPTACLES AND OUTLETS MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED. MOUNT

EXTERIOR LOCATED RECEPTACLES WITH WHILE-IN-USE COVERS AT +20" FROM FINISHED

4. FLUSH MOUNT ALL LIGHTING CONTROL DEVICES AT +42" FROM FLOOR (CENTERLINE

GRADE (CENTER DIMENSIONS) TO MAINTAIN INSTALLATION ADA COMPLIANCE.

6.  $\,$  ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOPS. REFER TO 26 05 03 FOR ADDITIONAL INFORMATION AND REQUIREMENTS SPECIFIC TO FIRESTOPPING CONNECTION FOR ELECTRIC WATER COOLERS (EWC) SHALL BE A JUNCTION BOX

CONCEALED BEHIND WATER COOLER ACCESS PLATE OR BE A GFI RECEPTACLE LOCATED DIRECTLY BELOW AND CENTERED ON EWC. CONTRACTOR SHALL VERIFY TYPE OF EWC TO BE INSTALLED 8. MOUNT ALL FIRE ALARM PULL STATIONS AT +42" FROM FLOOR (CENTERLINE DIMENSION) EXCEPT WHERE OTHERWISE NOTED.

9. INSTALL ALL WALL MOUNTED FIRE ALARM NOTIFICATION DEVICES AT 90" ABOVE FINISHED FLOOR OR 6" BELOW THE CEILING, WHICHEVER IS LOWER, EXCEPT WHERE OTHERWISE NOTED. HEIGHT SHALL BE MEASURED TO THE TOP OF THE DEVICE. 10. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL CEILING MOUNTED DEVICES AND EQUIPMENT WITH LUMINAIRES, SPRINKLER, AND CEILING DIFFUSERS. CENTER ALL DEVICES IN CEILING TILE PATTERN. SMOKE DETECTORS AND OCCUPANCY/VACANCY SENSORS SHALL BE LOCATED NO CLOSER THAN 3 FEET TO AN AIR SUPPLY DIFFUSER OR RETURN GRILLE. 11. CONTRACTOR SHALL VERIFY ALL FURNITURE, MODULAR FURNITURE, AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND REVIEWED SHOP DRAWINGS.

ADJUST RECEPTACLES, OUTLETS, OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT 12. ELECTRICAL AND TECHNOLOGY EQUIPMENT SHALL BE MOUNTED TO AVOID IMPEDANCE OF, OPERATION OF, AND/OR ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF ELECTRICAL AND TELECOMMUNICATIONS EQUIPMENT, ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR, SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR 13. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL

PRIOR TO MAKING THE ACTUAL ELECTRICAL INSTALLATION, THIS CONTRACTOR SHALL

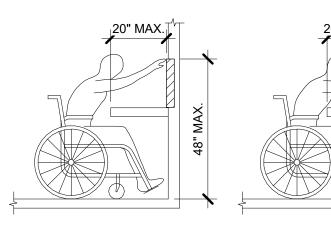
OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS 14. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO THE WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE

IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND 15. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER ELECTRICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES. OTHER THAN SPRINKLERS.

COLOR/LABEL REQUIREMENTS FOR CONDUIT, BOX, CABLE/WIRE, AND EQUIPMENT.

16. ELECTRICAL IDENTIFICATION. REFER TO SPECIFICATION SECTION 26 05 53 FOR

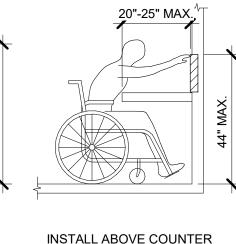
**ELECTRICAL SHEET INDEX ELECTRICAL COVERSHEET** SINGLE LINE DIAGRAM - DEMOLITION SINGLE LINE DIAGRAM - REMODEL LIGHTING SCHEDULES LIGHTING CONTROLS DIAGRAM PANEL SCHEDULES PANEL SCHEDULES TECHNOLOGY SCHEDULES TITLE 24 INDOOR LIGHTING CERTIFICATE TITLE 24 ELECTRICAL POWER DISTRIBUTION ENLARGED DEMOLITION LIGHTING PLAN - SOUTH ENLARGED DEMOLITION LIGHTING PLAN - NORTH ENLARGED DEMOLITION POWER/FA PLAN - SOUTH ENLARGED DEMOLITION POWER/FA PLAN - NORTH OVERALL DEMOLITION FLOOR PLAN - TECHNOLOGY OVERALL FLOOR PLAN - ELECTRICAL ENLARGED REMODEL LIGHTING PLAN - SOUTH ENLARGED REMODEL LIGHTING PLAN - NORTH ENLARGED REMODEL POWER/SIGNAL PLAN - SOUTH ENLARGED REMODEL POWER/SIGNAL PLAN - NORTH ENLARGED REMODEL FIRE ALARM PLAN - SOUTH ENLARGED REMODEL FIRE ALARM PLAN - NORTH ROOF REMODEL PLAN - ELECTRICAL DETAILS



INSTALL ABOVE COUNTER

DEVICE AT 44" ABOVE

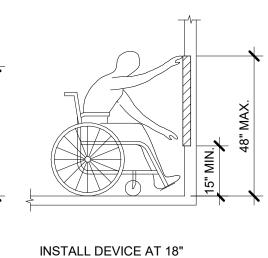
FINISHED FLOOR.



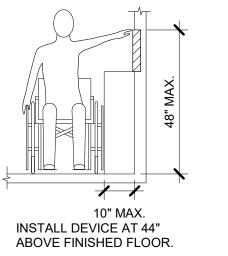
DEVICE AT 40" ABOVE

ADA GUIDELINES - FRONT ACCESS

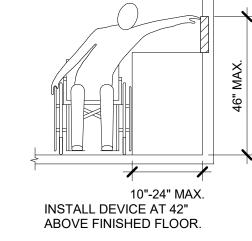
FINISHED FLOOR.



ABOVE FINISHED FLOOR.



**DETAILS** 



ADA GUIDELINES - SIDE ACCESS

901 VIA PIEMONTE, SUITE 400 MEG CORP RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG CORP AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTE PPROVAL AND PARTICIPATION OF IMEG CORP. REFERENCE SCALE IN INCHES

Lic. E16934

Exp. 6-30-2023

COLORADO RIVER STATION REMODEL

1111 BAILEY AVENUE

NEEDLES, CA. 92363

SAN BERNARDINO COUNTY

SHERIFF'S DEPARTMENT

WBSE #: 10.10.1220

CAFM #: NEE004

**KEY NOTES** 

CIP #: 22-030

marks architects 73121 fred waring drive

**DECEMBER 15, 2022** 

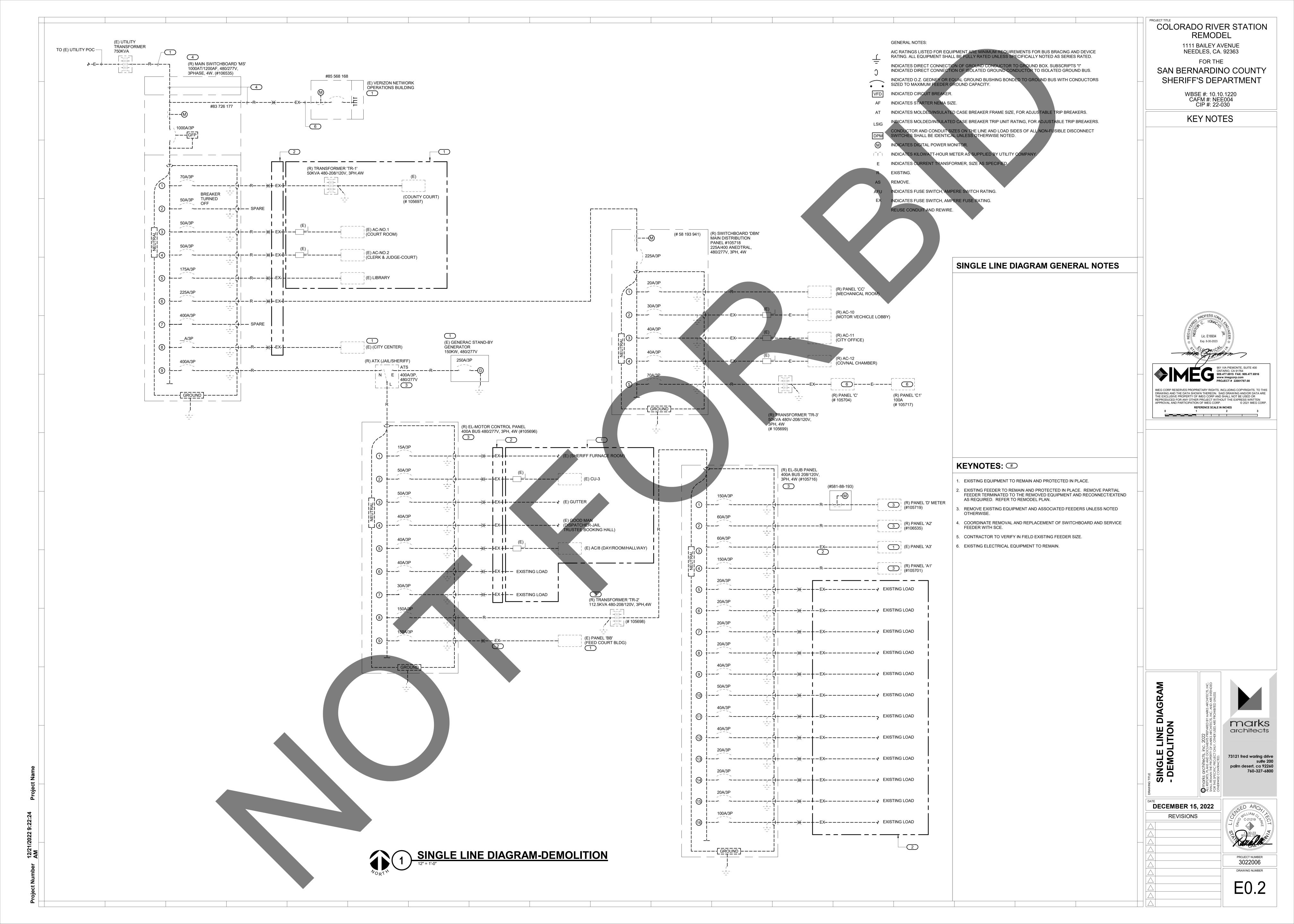
REVISIONS

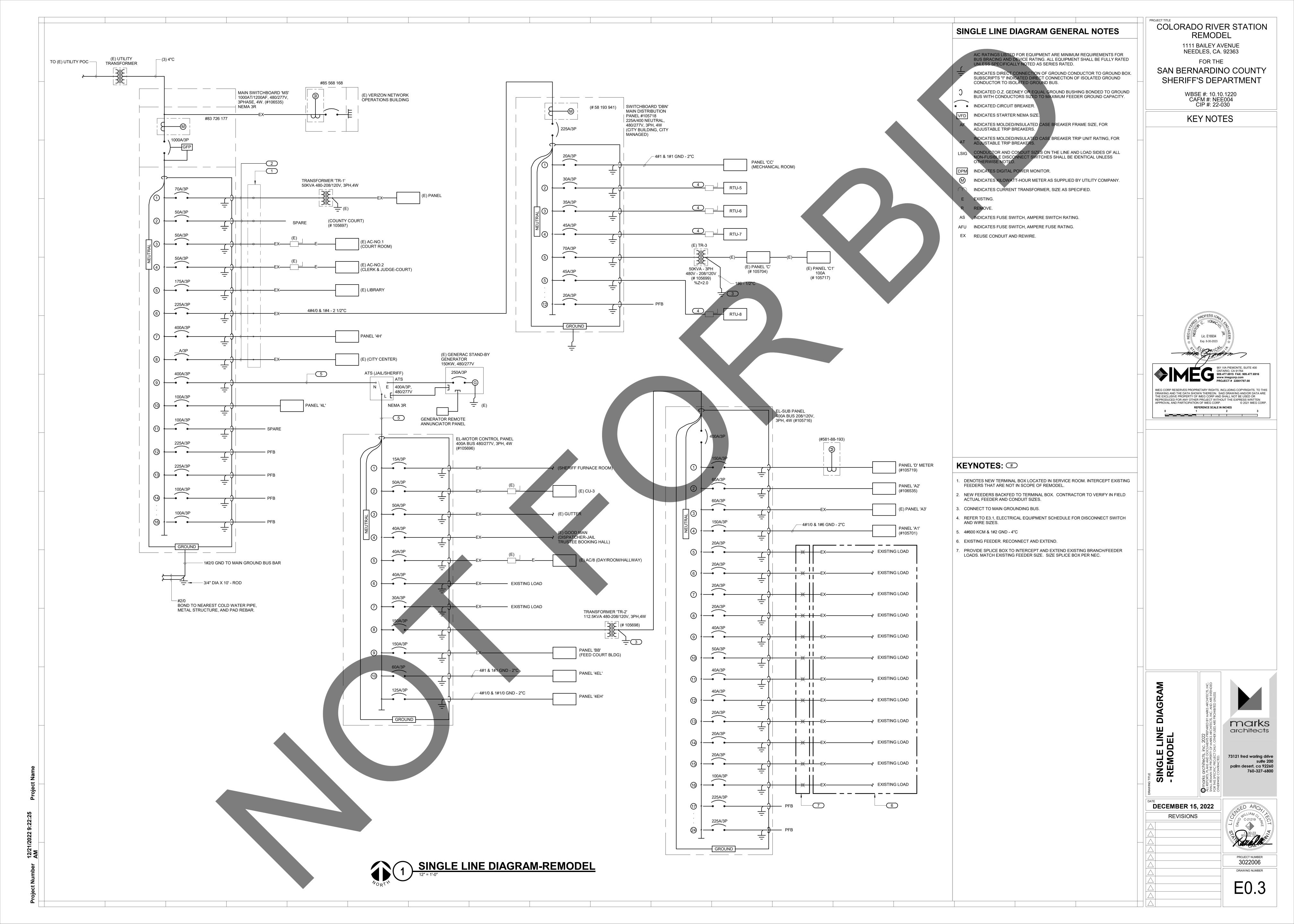
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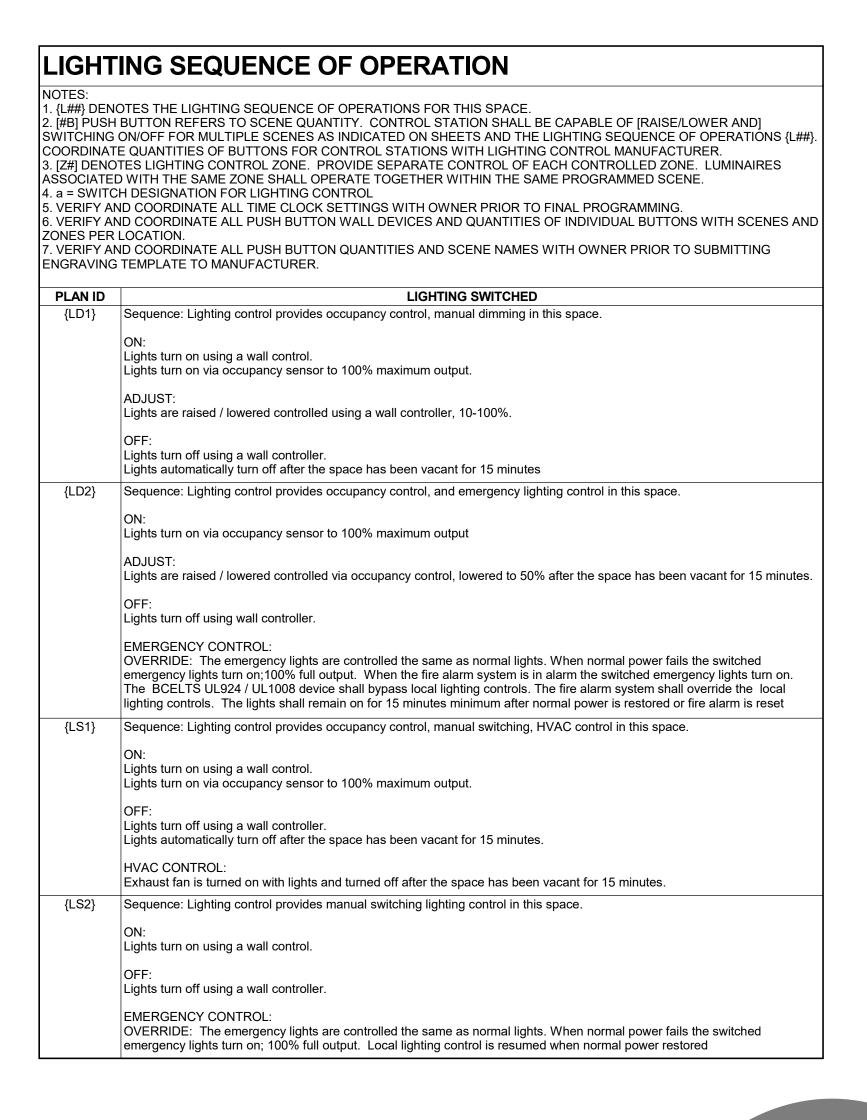
DRAWING NUMBER

ADA STANDARDS FOR ACCESSIBLE DESIGN

GRAND TOTAL







(DESC)	DOOR: DIST	RIBUTION	l:			BEAMWII	DTH:			(	(L/L) LE	NS/LOUVER:		K	19 - KSH19 .156" ACRYLIC	
	FA - FLAT ALUMINUM II - AN	II - ANSI/IES TYPE 2 DISTRIBUTION			NSP - VERY NARROW SPOT					۹125"	ACRYLIC		N	M - MATTE DIFFUSE CLEAR		
	FS - FLAT STEEL III - A	III - ANSI/IES TYPE 3 DISTRIBUTION			SP - SPOT					B - BAFF	LE/LOUVER		N	N - NONE		
	RA - REGRESSED ALUMINUM IV - A	NSI/IES T	YPE 4 DI	STRIBUTIO	N	MD - MED	DIUM			C	2 - CLEA	AR ALZAK		Р	- POLYCARBONATE	
	RS - REGRESSED STEEL V - AI	NSI/IES T	YPE 5 DIS	STRIBUTIO	N	WD - WID	E			F	F - FROS	STED ACRYLIC		R	- HIGH IMPACT DR ACRYLIC	
	FINISH:					VWD - VE	RY WID	E			G - TEM	PERED GLASS	`	s	S - SEMI-SPECULAR CLEAR	
	PAF - PAINT AFTER FABRICATION					WW - WA	LL WAS	Н		ŀ	√ - KSH <sup>2</sup>	12 .125" ACRYLI	C	C	- OTHER (SEE DESCRIPTION)	
	CFSA - COLOR-FINISH SELECTION BY ARCHI	TECT												ľ	DESIGN SPECIFIC BLANKS]	
(MTG) I	MOUNTING: RE-	RECESSE	D								WATT)	PER:	FIX - FIXTURE, F	T - F00	T, LAMP	
,	CL - CEILING SURFACE SP - S	SUSPEND	ED							(	TYPE) L	LED		R	GB - COLOR CHANGING LED	
	CV - COVE SU -	SURFACE	<u>:</u>						`	l	ED - LI	GHT EMITTING D	DIODE	R	GBW - COLOR CHANGING + WHITE	
	FR - FLANGED RECESSED UC -	JNDER C	ABINET								TLED - T	UBULAR LED LA	AMP	R	GBA - COLOR CHANGING + AMBER	
	P - PERIMETER WL -	WALL								C	OLED - (	ORGANIC LED		R	LED - RETROFIT LED	
	PL - POLE O - O	THER (SE	E DESC	RIPTION)						[	DLED - [	OYNAMIC TUNAE	BLE LED	WLED - WARM DIM LED		
(TYPE)	DRIVER:															
	0-10V - 0-10V DIMMING EB - I	ELECTRO	NIC			HL - HIGH	H/LOW (	100%/50%	6) STEP D	DIM				N	IV - MULTI-VOLTAGE ELECTRONIC	
	DALI - DIGITAL ADDRESSABLE ELV -	ELV - ELECTRONIC LOW VOLTAGE			LINE - LINE VOLTAGE DIMMING								R	EM - REMOTE		
	DMX - DIGITAL MULTIPLEX EM -	EMERGE	NCY BAT	TERY		ML - MULTI-LEVEL SWITCHING								Ç	- OTHER (SEE DESCRIPTION)	
VERIFY CONFIF	DINATED WITH THE CATALOG NUMBER TO DE	LUMINAI AIRE COI	RE MOUI	NTING AND	TRIM REQU	JIREMENTS ND INTERIO	PRIOR OR DESI	TO THE F	RELEASE RIOR TO	OF THE	E LUMIN LEASE (	IAIRE ORDER. OF THE LUMINA	IRE ORDER.			
INTERIO	TO SPECIFICATION SECTIONS [LED LIGHTING OR CORRELATED COLOR TEMPERATURE 400 IOR CORRELATED COLOR TEMPERATURE 400	0/4100K, (	COLOR R	<b>ENDERING</b>	G INDEX (CRI G INDEX (CR	I) AT OR AB RI) AT OR AE	OVE 85,	UNLESS UNLESS	NOTED S NOTED	OTHER\	WISE. RWISE.					
					DIMENS	IONS		WA	TIT		LE	ED DELIVERED	DRIVER	<u> </u>		
								ANSI				LUMENS				
ITEM	DESCRIPTION	L/L	MTG	L	W	Н	DIA.	WATTS	PER	TYPE	QTY	(MIN)	VOLTS	TYPE	MANUFACTURER AND MODEL	
A	2X4 RECESS MOUNTED LED VOLUMETRIC TROFFER WITH CURVED LUMINOUS SURFACE. SMOOTH ACRYLIC LENS. PROVIV 90-MIN EMER BATTERY WHERE INDICATED.	K	RE	4'-0"	2'-0"	4 1/2"		33 W	FIX	LED	1	4036	277 V	0-10V	LITHONIA LIGHTING - ENVEX SERIES LE ENVX 2X4 HRG 4000LM 90CRI 35K MIN10 ZT MVOLT E15WLCP	
В	LITHONIA LIGHTING - 2X2 RECESS MOUNTED	K	RE	2'-0"	2'-0"	4 1/2"		36 W	FIX	LED	1	4112	277 V	0-10V	LITHONIA LIGHTING - ENVEX SERIES LE	

5" 4" 30 W FIX LED 1 3000

2'-0" 5 1/2" 3 1/2"

4'-0" 5 77/256" 6"

8'-0" 8 1/2" 2"

SU 4'-0" 5 1/2" 3 1/2"

CV 4'-0" 2 3/4" 2 3/4"

4" 30 W FIX LED 1 3000

30 W FIX LED 1 3332

25 W FIX LED 1 3065

26 W FIX LED 1

LED LUMINAIRE SCHEDULE

LED VOLUMETRIC TROFFER WITH CURVED

TECHNOLOGY. IP5X RATED SEALED OPTICS.

BATTERY WHERE INDICATED

R POLYCARBONATE OPTICS,

NPULSE - SHOWER RATED

MOUNTED ROUND LED DOWNLIGHT.

OLYCARBONATE OPTICS, ALUMINIUM

SURFACE MOUNTED LOW PROFILE LED WRAPAROUND WITH DIE-FORMED HOUSING

AND HINGED DOOR FRAME. VOLUMETRIC

SURFACE MOUNTED LOW PROFILE LED WRAPAROUND WITH DIE-FORMED HOUSING AND HINGED DOOR FRAME. VOLUMETRIC

URFACE MOUNTED LOW PROFILE LED

PENDANT WITH ANIDOLIC OPTICS FOR UP AND DOWN BATWING OPTICS AND SQUARE

CELLULAR DETAILS. PROVIDE 90-MIN EMER BATTERY WHERE INDICATED.

BEGHELLI - EDGE-LIT EXIT, SELF-POWERED, GREEN LED, DOUBLE FACE, WHITE PANEL, CEILING SURFACE MOUNTED, BLACK

RECHARGABLE 90 MIN MINIMUM BACKUP BATTERY FOR EMERGENCY EGRESS

FLUXWERX - LINEAR INDIRECT/DIRECT

BONATE LENSES. PROVIDE 90

DWNLIGHT. ALUMINIUM HOUSING,

SE - RECESS MOUNTED ROUND

LUMINOUS SURFACE. SMOOTH ACRYLIC

LUMINAIRE LED - WALL/CEILING/PEND

TREATED ALUMINIUM HOUSING, LIGA

RESISTANT CONSTRUCTION WITH

JMINIUM REFLECTORS.

UMINIUM HOUSING, CLE

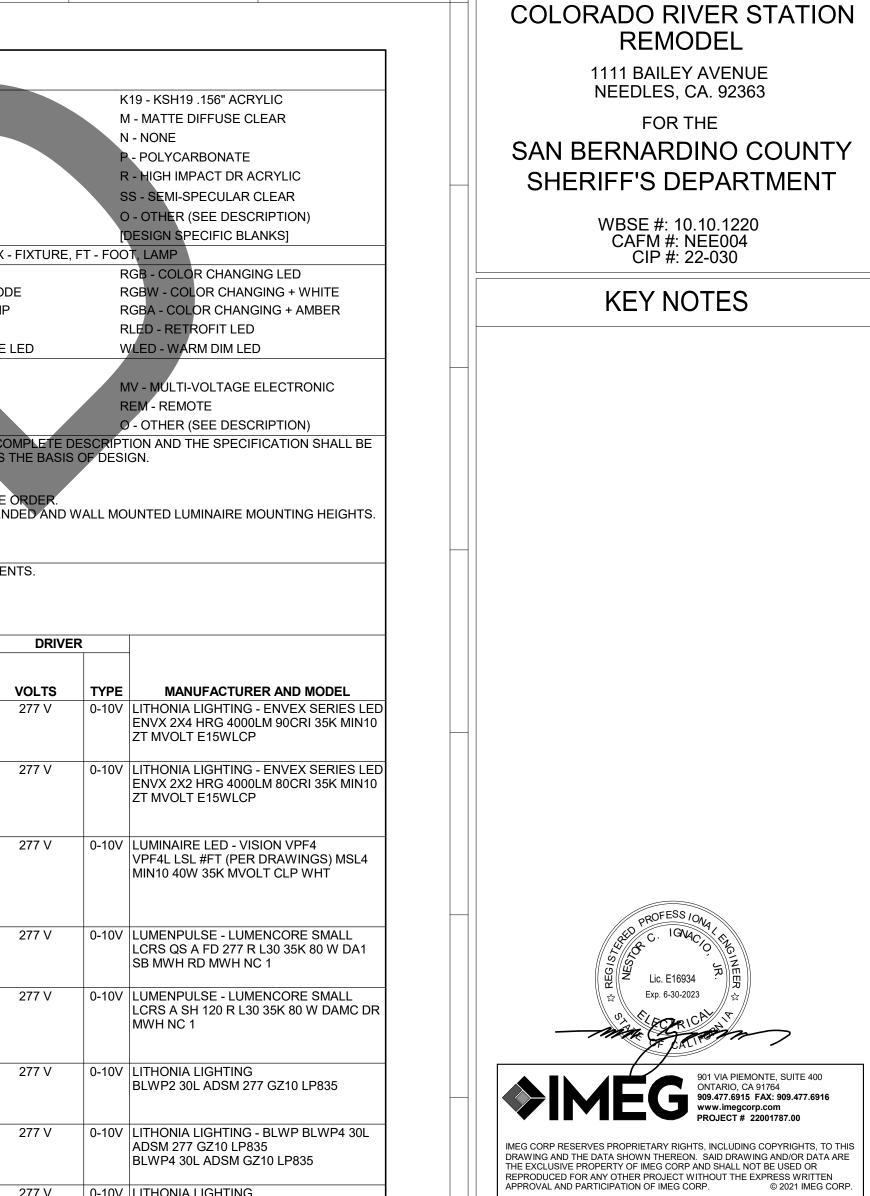
2' NARROW CHANNEL STRIP

LENS WITH DIRECT-LIT OVE

MOUNTED LE

ILLUMINATION.

ILLUMINATION.



ZT MVOLT E15WLCP

ADSM 277 GZ10 LP835

277 V 0-10V FLUXWERX - APERATURE 75 UP 25 DN

BEGHELLI - CYCLONE

BLWP4 30L ADSM 277 GZ10 LP835

(VERIFY WITH ARCHITECT)

ÀPS F Á C 35 A XX (FIELD VERIDY) F2 M

CYC SA LG 1/2 (PER DRAWING) C WCS

277 V 0-10V LITHONIA LIGHTING

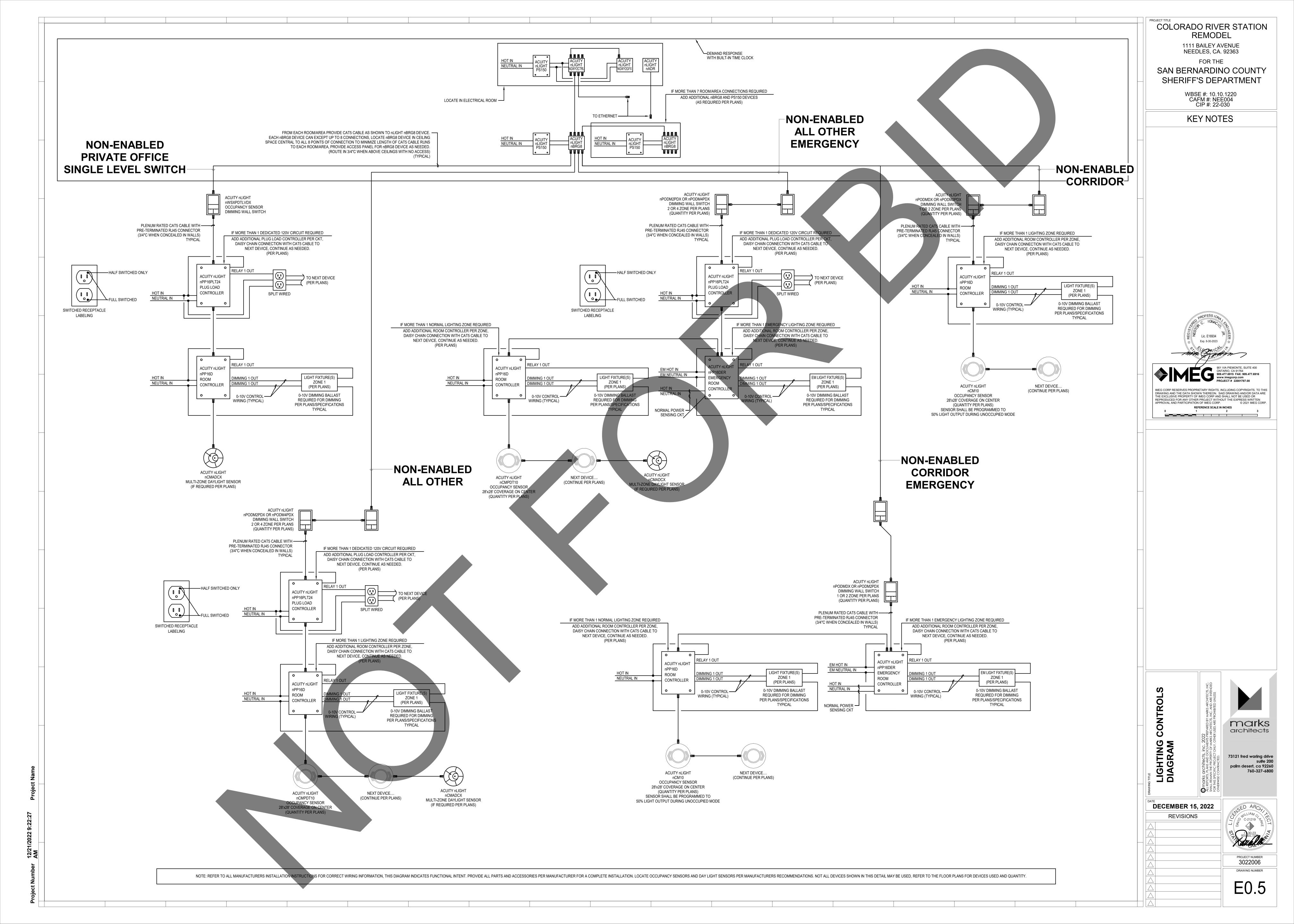
277 V 0-10V LITHONIA LIGHTING





CEMBER 15, 2022	SED AA
REVISIONS	SED AF
	PROJECT NU 30220

REFERENCE SCALE IN INCHES



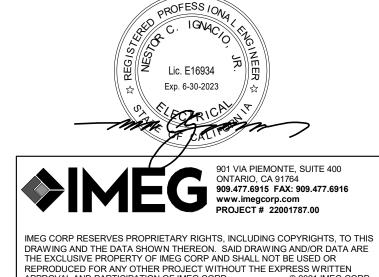


COLORADO RIVER STATION REMODEL 1111 BAILEY AVENUE NEEDLES, CA. 92363

FOR THE SAN BERNARDINO COUNTY SHERIFF'S DEPARTMENT

> WBSE #: 10.10.1220 CAFM #: NEE004 CIP #: 22-030

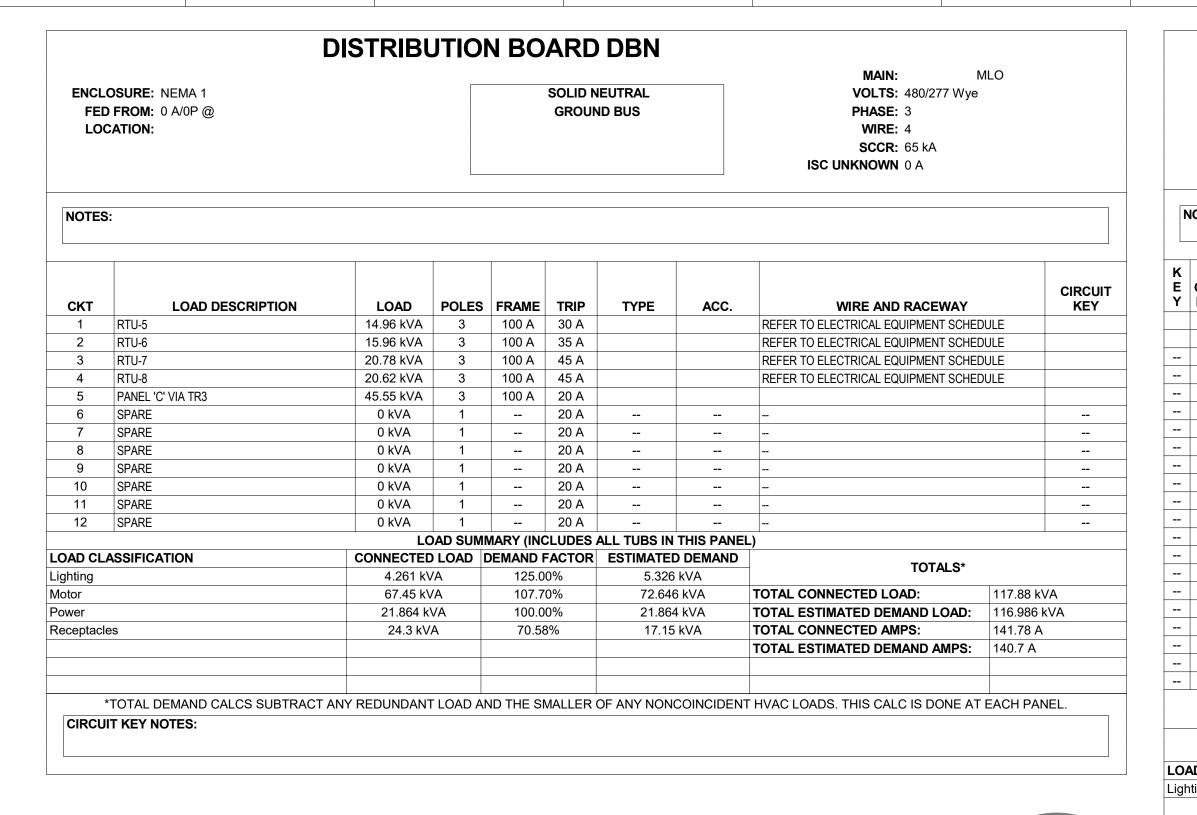
**KEY NOTES** 

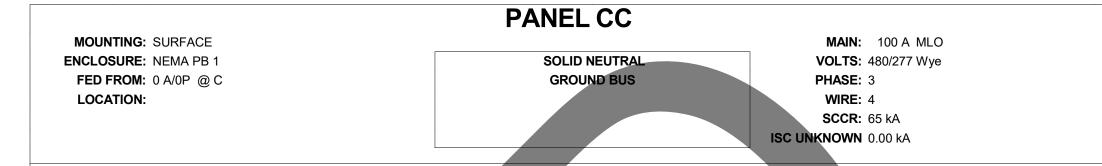


REFERENCE SCALE IN INCHES

marks architects 73121 fred waring drive palm desert, ca 92260

**DECEMBER 15, 2022 REVISIONS** 





K E Y	CKT NO. LOAD DESCRIPTION		AMF	OCPD AMPS P		A		В		С		CPD P MPS	LOAD DESCRIPTION		CKT NO.		
	1	LIEUTENANT OFFICE LTG	20 A	1	1.93	0.29					1	20 A			TAIN'S OFFICE LTG		+
	3	ELEC RM LTG	20 A	1			1.71	0.34			1	20 A			CORRIDOR LTG	4	1
	5	SPACE							0	0					SPACE	6	
	7	SPACE		-	0	0									SPACE	8	
	9	SPACE					0	0					7		SPACE	10	
	11	SPACE	4						0	0					SPACE	12	-
	13	SPACE		(=	0	0					P				SPACE	14	
	15	SPACE		7			0	0				7			SPACE	16	
	17	SPACE							0	0					SPACE	18	
	19	SPACE			0	0					<b>-</b>				SPACE	20	
	21	SPACE					0	0			-	/			SPACE	22	
	23	SPACE							0	0		<b>V</b> _			SPACE	24	
	25	SPACE			0	0									SPACE	26	
	27	SPACE					0	0							SPACE	28	
	29	SPACE	-	h					0	0					SPACE	30	
	31	SPACE			0	0									SPACE	32	
	33 ∢	SPACE					0	0							SPACE	34	
	35	SRACE		1					0	0					SPACE	36	
	37	SPACE			0	0									SPACE	38	
	39	SPACE					0	0							SPACE	40	
	41	SPACE							0	0					SPACE	42	
			Tot	al	2.22	kVA	2.04	l kVA	0.00	kVA							
			Tot	al	9.	15	8.	.51	0.	00	1						

•														
OAD CLASSIFICATION		CONNECTED LOAD	DEMAND FACTOR	<b>ESTIMATED DEMAND</b>	TOTALS*									
ighting		4.261 kVA	125.00%	5.326 kVA	TOTALS									
					TOTAL CONNECTED LOAD:	4.26 kVA								
					TOTAL ESTIMATED DEMAND LOAD:	5.326 kVA								
					TOTAL CONNECTED AMPS:	5.13 A								
					TOTAL ESTIMATED DEMAND AMPS:	6.4 A								
*TOTAL DEMAND CALCO	CUDTDACT AN	V DEDLINDANT LOAD	AND THE CMALLED	OF ANY MONICOINCIDENT	TUVACIOADO TUICOALO IODONE ATI	CACLIDANIEL								

\*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL. **CIRCUIT KEY NOTES:** 

COLORADO RIVER STATION REMODEL 1111 BAILEY AVENUE NEEDLES, CA. 92363

FOR THE SAN BERNARDINO COUNTY SHERIFF'S DEPARTMENT

WBSE #: 10.10.1220 CAFM #: NEE004 CIP #: 22-030

**KEY NOTES** 



marks architects 73121 fred waring drive suite 200

**DECEMBER 15, 2022** REVISIONS

(ALL SINGLE DOORS)

# **CONTROLLED SECURITY SCHEME DOOR ROUGH-IN DETAIL**

NOTES:

1. CONFIGURATIONS SHOWN IN THE DETAIL ABOVE ARE DIAGRAMMATIC, INTENDED TO DESCRIBE THE CONTROLLED SECURITY SCHEME ROUGH-IN REQUIREMENTS OF THE DOORS. DETAILS ABOVE MAY NOT ACCURATELY REPRESENT DOOR SIZE, DOOR SWING, DOOR HARDWARE, OR DOOR FUNCTIONALITY. REFER TO ARCHITECTURAL DOOR HARDWARE SCHEDULE, DOOR HARDWARE GROUPS AND DOOR HARDWARE SPECIFICATIONS FOR COMPLETE INFORMATION. MIRROR THE DETAIL AS REQUIRED.

- 2. ROUGH IN SHOWN IN THE DETAIL ABOVE REPRESENTS THE MINIMUM REQUIREMENTS FOR ALL CONTROLLED SECURITY SYSTEM DEVICES AND CABLING UNLESS OTHERWISE NOTED. COORDINATE EXACT REQUIREMENTS WITH SELECTED DOOR MATERIALS, DOOR HARDWARE, AND CONTROLLED SECURITY DEVICES AND CABLING PRIOR TO INSTALLATION.
- 3. ALL CABLING IN WALLS AND WHERE EXPOSED ON VERTICAL SURFACES SHALL BE INSTALLED IN EMT CONDUIT OR SURFACE MOUNT RACEWAY. CABLING ROUTED HORIZONTALLY ABOVE THE ACCESSIBLE CEILING MAY BE INSTALLED FREE-AIR CABLING PROPERLY RATED FOR THE CEILING
- 4. THE ELECTRICAL OR SECURITY CONTRACTOR SHALL NOT MODIFY ANY FIRE RATED DOOR AND/OR DOOR FRAME. REFER TO THE ARCHITECTURAL DOOR SCHEDULE, DOOR HARDWARE SCHEDULE, AND DOOR HARDWARE SPECIFICATION FOR ADDITIONAL INFORMATION. MODIFICATION TO ANY FIRE RATED DOOR AND/OR FRAME WILL REQUIRE A RE-CERTIFICATION OF THE DOOR AND FRAME WITH THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ).
- 5. INSTALLING CONTRACTOR SHALL FURNISH AND INSTALL FIRESTOP MATERIALS FOR ALL CONTROLLED SECURITY SCHEME ROUGH-INS PER PROJECT
- REQUIREMENTS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
  6. INSTALLATION SHALL INCLUDE ALL POWER REQUIRED FOR SYSTEM OPERATION INCLUDING +120VAC. REFER TO THE SUGGESTED MATRIX OF SCOPE RESPONSIBILITY FOR ADDITIONAL INFORMATION.

KEYNOTES:

1. PROVIDE JUNCTION BOXES IN THE DOOR FRAME WHERE SHOWN ON THIS DETAIL. ROUGH-IN SHALL BE PROVIDED WHETHER THE CURRENT SECURITY SCHEME UTILIZES THEM OR NOT. ALL CONDUITS SHALL BE EMT CONDUIT UNLESS OTHERWISE NOTED. FLEXIBLE CONDUIT OF ANY TYPE SECURITY SCHEME UTILIZES THEM OR NOT. ALL CONDUITS SHALL BE EMT CONDUIT UNLESS OTHERWISE NOTED. FLEXIBLE CONDUIT OF ANY TYPE WILL NOT BE ACCEPTED. COORDINATE INSTALLATION WITH ON-SITE DOOR FRAME INSTALLATION CONTRACTOR.

- 2. 4" SQUARE BACKBOX WITH SINGLE GANG PLASTER RING. PROVIDE 2 1/2" DEEP MASONRY BOX WHERE APPLICABLE. REFER TO FLOOR PLAN(S) FOR ACTUAL CREDENTIAL READER TYPE AND ROUGH-IN LOCATIONS.
- 3. CONDUIT SHALL ROUTE FROM THE CREDENTIAL READER TO THE SECURE SIDE OF THE DOOR. CONDUIT SHALL ROUTE TO THE NEAREST SECURITY
- 4. MOUNT A MINIMUM 4" SQUARE 2-1/8" DEEP JUNCTION BOX WITH BLANK COVER PLATE ON THE SECURE SIDE OF THE DOOR ABOVE ACCESSIBLE CEILING. INSTALLING CONTRACTOR SHALL SIZE THE JUNCTION BOXES PER SYSTEM INSTALLATION REQUIREMENTS AND APPLICABLE CODES.

MAINTAIN ACCESS TO THE JUNCTION BOX. 5. CONDUIT SHALL ROUTE TO THE NEAREST SECURITY PANEL.

# TECHNOLOGY EQUIPMENT SCHEDULE

THE EQUIPMENT LIST ABBREVIATIONS AND THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE ARE FOR THE CONVENIENCE OF THE CONTRACTOR. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF QUANTITIES AND SHALL FURNISH ALL MATERIAL REQUIRED, WHETHER SPECIFIED OR NOT, TO PRODUCE A SATISFACTORY

CATALOG NUMBERS ARE NOT TO BE CONSIDERED COMPLETE BUT ARE GIVEN ONLY TO AID THE CONTRACTOR IN THE SEARCH FOR MATERIAL. NO MATERIAL SHALL BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. EACH CONTRACTOR SHALL FIRST READ THE COMPLETE DESCRIPTION OF THE MATERIAL ON THESE DRAWINGS AND SPECIFICATIONS. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN. "STANDARD COLOR" INDICATES FACTORY FINISH AVAILABLE AT NO

QUIPMENT LIST ABBREVIATION	EQUIPMENT LIST DESCRIPTION	MANUFACTURER AND MODEL
AV-MON-55	55" VIDEO DISPLAY: PROFESSIONAL COMMERCIAL GRADE 55" EDGE LED DISPLAY WITH UHD 3840 x 2160 RESOLUTION, 4000:1 CONTRAST RATIO, 178° VIEWING ANGLE, 350 NITS TYPICAL BRIGHTNESS. INPUTS SHALL INCLUDE HDMI, AUDIO MINI JACK, RS-232 AND IR EXTERNAL CONTROL. STANDARD VESA MOUNTING. TYPICAL DIMENSIONS 48.62" W X 27.87" H x 1.82" D, 56" DIAG. WEIGHT 39.90 LBS	SAMSUNG QB55R
	COORDINATE AC POWER AND BLOCKING AT ROUGH-IN FOR STANDARD WALL MOUNT, UON.	
AV-MON-65	65" INTERACTIVE DISPLAY: PROFESSIONAL COMMERCIAL GRADE 55" INTERACTIVE TOUCH DISPLAY WITH UHD 3840 x 2160 RESOLUTION, 4000:1 CONTRAST RATIO, 178° VIEWING ANGLE, 350 NITS TYPICAL BRIGHTNESS. INPUTS SHALL INCLUDE HDMI, AUDIO MINI JACK, RS-232 AND IR EXTERNAL CONTROL. STANDARD VESA MOUNTING. OPS SLOT, AIRPLAY. TYPICAL DIMENSIONS ARE 66.58" X 41.54" X 7.80" AND 87.53 LBS.  COORDINATE AC POWER AND BLOCKING AT ROUGH-IN FOR STANDARD WALL MOUNT, UON.	SAMSUNG WM65B
AV-MON-85	85" INTERACTIVE DISPLAY: PROFESSIONAL COMMERCIAL GRADE 85" INTERACTIVE TOUCH DISPLAY WITH UHD 3840 x 2160 RESOLUTION, 4000:1 CONTRAST RATIO, 178° VIEWING ANGLE, 350 NITS TYPICAL BRIGHTNESS. INPUTS SHALL INCLUDE HDMI, AUDIO MINI JACK, RS-232 AND IR EXTERNAL CONTROL. STANDARD VESA MOUNTING. OPS SLOT, AIRPLAY TYPICAL DIMENSIONS 84.10" W X 51.89" H x 10.24" D, 86" DIAG. WEIGHT 165.79 LBS  COORDINATE AC POWER AND BLOCKING AT ROUGH-IN FOR STANDARD WALL MOUNT, UON.	SAMSUNG WM85B
AV-RI		N/A
PA-S1-C	· ·	N/A
SC-ER-1	2 POST EQUIPMENT RACK, 45RU MOUNTING SPACE, 84"H X 15"D X 20.3"W, AVAILABLE WITH 3" DEEP HOLES. #12-24 TAPPED MOUNTING RAILS. DURABLE BLACK POWDER COAT FINISH, MEETS EIA-310-E REQUIREMENTS, 1000 LB WEIGHT CAPACITY.  REFER TO DETAIL 7/E4,2 FOR 2-POST RACK MOUNTING DETAILS,	CHATSWORTH PRODUCTS 55053-703
SC-ER-2	4 POST EQUIPMENT RACK, 45RU MOUNTING SPACE, 84"H X 30"D X 20.3"W, AVAILABLE WITH 3" DEEP HOLES. #12-24 TAPPED MOUNTING RAILS. DURABLE BLACK POWDER COAT FINISH, MEETS EIA-310-E REQUIREMENTS, 2000 LB WEIGHT CAPACITY.	CHATSWORTH PRODUCTS 15251-703
SC-GND-1	GROUNDING BUSBAR, WALL MOUNT. 2" H X 12" L X 1/4" D COPPER, ELECTRICALLY ISOLATED BY INSULATORS INTEGRAL TO MOUNTING BRACKETS. COPPER GROUND BAR IS 1/4" THICK AND STAND OFF 2.75" FROM WALL. THE 12" BUSBAR PROVIDES CONNECTION FOR NINE (9) 2-HOLE COMPRESSION LUGS RESPECTIVELY WITH 5/8" OR 1" CENTERS. ANSI/TIA-607 AND BICSI COMPLIANT. UL LISTED.  REFER TO GROUND BAR DETAIL ON 6/E4.2	CHATSWORTH 13622-012
SC-LRL-1	HORIZONTAL VERTICAL LADDER RACK, 18"W TUBULAR STEEL CONSTRUCTION, RUST RESISTANT ENAMEL FINISH, REMOVE SHARP BURS FROM LADDER RACK AND REPAINT ALL AREAS THAT HAVE BEEN FIELD MODIFIED, CUT OR EXPOSED. U.L. LISTED.  REFER TO DETAIL 8/E4.2 FOR MOUNTING DETAILS.	CHATSWORTH 10250-718
SC-RI-C	TECHNOLOGY ROUGH-IN, INSTALL A 4" SQUARE BACKBOX WITH A SINGLE GANG PLASTER RING. INSTALL A 1" EMT CONDUIT TO NEAREST ACCESSIBLE CEILING OR UNLESS OTHERWISE NOTED. TERMINATE WITH NYLON BUSHING.	N/A
SC-RI-W	TECHNOLOGY ROUGH-IN, INSTALL A 4" SQUARE BACKBOX WITH A SINGLE GANG PLASTER RING AT +18" AFF UON. INSTALL A 1" EMT CONDUIT TO NEAREST ACCESSIBLE CEILING OR UNLESS OTHERWISE NOTED. TERMINATE WITH NYLON BUSHING.	N/A
SC-TTB	TELECOMMUNICATIONS TERMINAL BOARD, 3/4" THICK A-C GRADE FIRE-RATED PLYWOOD. EXPOSED SIDE SHALL BE SMOOTH. MOUNT VERTICALLY WITH TOP OF PLYWOOD AT 8'-6" AFF. IN THE EVENT THE MANUFACTURER'S RATING STAMP IS NOT VISIBLE ON THE SMOOTH SIDE, THE CONTRACTOR SHALL PROVIDE A LAMINATED LETTER FROM THE MANUFACTURER OR SUPPLIER CERTIFYING THAT THE PLYWOOD IS FIRE-RATED AND ATTACH THE LETTER WITH A PICTURE OF THE RATING STAMP, TO THE PLYWOOD. FIRE RATED PLYWOOD SHALL NOT BE PAINTED OR TREATED WITH	N/A
	ANY TYPE OF SEALANT THAT WOULD LESSEN THE INTEGRITY OF THE FIRE RATING.	
SC-VWM-1	SINGLE SIDE VERTICAL WIRE MANAGER, INCLUDES TWO SLACK SPOOLS, 72"H X 8" W X 15.5"D, BLACK POWDER COATED, INCLUDES DUAL HINGED METAL DOOR. INCLUDE CABLE RING KIT #32573-700	CHATSWORTH 32611-701

COLORADO RIVER STATION REMODEL 1111 BAILEY AVENUE

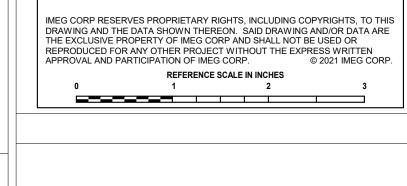
NEEDLES, CA. 92363 SAN BERNARDINO COUNTY

SHERIFF'S DEPARTMENT WBSE #: 10.10.1220 CAFM #: NEE004

CIP #: 22-030

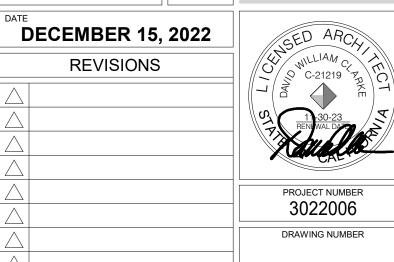
**KEY NOTES** 











G. MODULAR LIGHTING SYSTEMS

This Section Does Not Apply

Project N
12/21/2022 9:22:28
Project Number

													_
STATE OF CALIFORNIA Indoor Lighting NRCC-LTI-E (Created 04/21)				CA	ALIFORNIA ENERG	SY COMMISSION		STATE OF CALIFORNIA Indoor Lighting NRCC-LTI-E (Created 04/21)					
CERTIFICATE OF COMPLIANCE		51100 5110 12/-1 5120 0 5	120 1 5140 5 15141			NRCC-LTI-E	Ē	CERTIFICATE OF COM	PLIANCE ORADO SHERIFF-S STATION REMODE			Report Page:	
is document is used to demonstrate compliant escriptive path.	ce with requirements in	8110'3' 8110'15(C)' 8130'0' 8'	(30.1, 9140.6, and 9141.	<u>U(D)Z</u> for inaoor iig	gnting scopes	using the			L BAILEY AVENUE NEEDLES, CA, 9236			Date Prepared:	:
ect Name: COLORADO SHERIFF-S STATION ect Address: 1111 BAILEY AVENUE NEEDLES			ort Page: e Prepared:			Page 1 of 9 12/12/2022	_	CORRIDOR	Corridor	Manual ON/ OFF	Dimmer	Exempt*	П
ENERAL INFORMATION						?		OFFICES	065 /- 250 5	Manual ON/	Dimmor	0 6	H
Project Location (city) Climate Zone	NEEDLES 15		onditioned Floor Area (ft nconditioned Floor Area		8,60	7	-	OFFICES	Office (≤ 250 square feet)	OFF	Dimmer	Occ. Sensor	Ц
3 Occupancy Types Within Project (select all			ries (Habitable Above Gr		1		1	LOBBY	Main Entry Lobby	Manual ON/ OFF	Dimmer	Exempt*	П
Office Retail Parking Garage High-Rise Re	✓ Warel Relocation			ool er (write in):	✓ Suppor	t Areas	]	RESTROOMS	Restroom	Manual ON/ OFF	Exempt*	Occ. Sensor	П
. PROJECT SCOPE able Instructions: Include any lighting systems t	hat are within the scop	e of the permit application and	d are demonstratina com	npliance using the	prescriptive p	ath outlined in		CONFERENCE ROOMS	Convention, Conference, Multipurpose, and Meeting Center	Manual ON/ OFF	Dimmer	Occ. Sensor	П
10.6 or 5141.0(b)2 for alterations. WARNING: culation method, please open a new form or u	Changing the Calculati	ion Method in this table will re	sult in the deletion of da	ta previously input	t. If you need	to change the		LOCKER ROOMS	Locker/Dressing Room	Manual ON/ OFF	Dimmer	Occ. Sensor	
Scope of Work 01		Conditioned S 02	ipaces 03	Unc 04	onditioned Sp	oaces 05	}	BREAK ROOMS	Lounge	Manual ON/ OFF	Dimmer	Occ. Sensor	
My Project Consists of (check all the New Lighting System	at apply):	Calculation Method Area Category + Tailored	Area (ft <sup>2</sup> ) 8,607	Calculation Complete 8		Area (ft <sup>2</sup> )	-	JANITOR ROOM	Electrical, Mechanical, Telephone Rooms	Manual ON/ OFF	Exempt*	Occ. Sensor	
Altered Lighting System								ELEC ROOM	Electrical, Mechanical, Telephone Rooms	Manual ON/ OFF	Exempt*	Exempt*	$\parallel$
To	otal Area of Work (ft²)	8,607					-		n a * require a note in the space below pary/Skylight Daylighting: Exempt bec				Ŧ
COMPLIANCE RESULTS	otal race of troin (it )	-,				<u></u>	J	EXCEPTION 1 to 5130.		ause iess than 120	watts of general	lighting;	ŀ
ole Instructions: If any cell on this table says "I	DOES NOT COMPLY" or	"COMPLIES with Exceptional C	onditions" refer to Table	D. for guidance.		19	4	STORAGE	Area less than 100 sf				
Linksing in	nting Power per §140.6		Adjusted Lighting Po		<del></del>	Compliance Results	1	CORRIDOR	Facility is 24/7 operation.				
ditioned and 01 02	03	04 05			08	09	-	LOBBY RESTROOMS	Facility is 24/7 operation Restroom exception				
nconditioned Complete	Area Category Ta	ailored .		control Total	Adjusted			JANITOR ROOM	Area less than 100 sf				_
combined for Building S140.6(c)2	6140.6(c)2G 919	40.6(c)3 = Total Allowed (4)	Designed Cre	edits = (V	Watts)	05 Must be ≥ 08		ELEC ROOM	Electrical room exemption per NEC				_
ompliance per 5140.6(c)1 5140.6(b)1,	(+)	(+) (Watts)			ncludes ustments	<u>§140.6</u>							
(See Table I) (See Table I)		Table K)		Table P)			1	I. LIGHTING POWER	ALLOWANCE: COMPLETE BUILDI	NG OR AREA CAT	TEGORY METHO	DDS	
Conditioned: 5,686 nconditioned:	0 1,2	252.51 = 6,938.51	6,367	0 = 6	6,367	COMPLIES	-		mplete the table for each area comply		plete Building or i	Area Category Me	thoo
able Continued		-		-				allowances per <u>\$140.6</u>	<u>i(c)</u> or adjustments per <u>\$140.6(a)</u> are	being used.			
CA Building Energy Efficiency Standards - 2019 Nonre	sidential Compliance: http	o://www.energy.ca.gov/title24/20	19standards			April 2021	ī	CA Building Energy Effici	ency Standards - 2019 Nonresidential Cor	npliance: http://www	w.energy.ca.gov/tit	le24/2019standards	5
TATE OF CALIFORNIA  ndoor Lighting  RCC-LTI-E (Created 04/21)  CERTIFICATE OF COMPLIANCE				CA	ALIFORNIA ENERG	y commission NRCC-LTI-E		STATE OF CALIFORNIA Indoor Lighting NRCC-LTI-E (Created 04/21) CERTIFICATE OF COME					
Project Name: COLORADO SHERIFF-S STATION	N REMODEL	Rep	ort Page:			Page 2 of 9	<b>⊣</b>		ORADO SHERIFF-S STATION REMODE	L		Report Page:	_
oject Address: 1111 BAILEY AVENUE NEEDLES	, CA, 92363	Date	e Prepared:			12/12/2022	2	Project Address: 1111	L BAILEY AVENUE NEEDLES, CA, 9236	3		Date Prepared	
			pliance (See Table H for			-	]	01		02		03	
. EXCEPTIONAL CONDITIONS		Rated Power Reduction Com	ipliance (See Table Q for	r Details)	Not App	iicable	] ]	Area Descrip		e Building or Area ( imary Function Are		Allowed Density (W/ft <sup>2</sup> )	7
nis table is auto-filled with uneditable comment	ts because of selections	made or data entered in table	s throughout the form.				]	Conditioned Spaces					
able H Indoor Lighting Controls Permit Applicar	nt Notes:							01		02		03	
STORAGE Area less than 100 sf CORRIDOR: Facility is 24/7 operation.								Area Descrip		e Building or Area ( imary Function Are		Allowed Density (W/ft²)	V
LOBBY: Facility is 24/7 operation								STORAGE	Commer	cial and Industrial	Storage	0.6	
RESTROOMS: Restroom exception JANITOR ROOM: Area less than 100 sf								CORRIDOR		Corridor		0/6	
ELEC ROOM: Electrical room exemption	per NEC							OFFICES		ce (≤ 250 square fe		0.7	
							_	OFFICES		ce (> 250 square fe	eet)	0.65	
. ADDITIONAL REMARKS						(5)	П	LOBBY RESTROOM		Main Entry Lobby Restroom		0.85	_
is table includes semastic made by the normit							4	KESTKOON	13	nestroom		0.65	

S	door Lighting Controls Permit Applicar TORAGE	11000031								
Area less	than 100 sf									
0	ORRIDOR: Facility is 24/7 operation.									
	OBBY: Facility is 24/7 operation									
	ESTROOMS: Restroom exception									
	ANITOR ROOM: Area less than 100 sf									
E	LEC ROOM: Electrical room exemption	n per NEC								
	IONAL REMARKS									- 6
This table	includes remarks made by the permit	applicant to th	e Authority Havin	g Jurisdiction.						
										EC.
	R LIGHTING FIXTURE SCHEDULE									
Table Insti	ructions: Include all permanent design	ed lighting and	d all portable light	ing in offices.						·
Table Insti		ed lighting and	d all portable light	ing in offices.						E
Table Insti	ructions: Include all permanent design	ed lighting and	d all portable light	ing in offices.	06	07	08	09	1	10
Table Instr Designed 01	ructions: Include all permanent design Wattage: Conditioned Spaces 02	03	04	05					1 Field In	.0
Table Insti Designed 01 Name or	wattage: Conditioned Spaces  02  Complete Luminaire Description	03 Modular			06 How Wattage is determined	07 Total number luminaires	08 Exempt per §140.6(a)3	09 Design Watts	Field In	.0 specto
Table Instr Designed 01 Name or	ructions: Include all permanent design Wattage: Conditioned Spaces  02  Complete Luminaire Description	03 Modular	04 Small Aperture & Color Change <sup>1</sup>	05 Watts per luminaire <sup>2</sup>	How Wattage is determined	Total number luminaires	Exempt per	Design Watts	_	
Table Instr Designed 01 Name or Item Tag	ructions: Include all permanent design Wattage: Conditioned Spaces  02  Complete Luminaire Description  2X4 RECESS MOUNTED LED	03 Modular	04 Small Aperture	05 Watts per luminaire <sup>2</sup>	How Wattage is determined Mfr. Spec <sup>2</sup>	Total number luminaires 121	Exempt per	Design Watts 3,993	Field In	.0 specto
Designed 01 Name or Item Tag	ructions: Include all permanent design Wattage: Conditioned Spaces  02  Complete Luminaire Description	03 Modular	04 Small Aperture & Color Change <sup>1</sup>	05 Watts per luminaire <sup>2</sup>	How Wattage is determined	Total number luminaires	Exempt per	Design Watts	Field In	.0 specto
Designed O1 Name or Item Tag A B C	ructions: Include all permanent design Wattage: Conditioned Spaces  02  Complete Luminaire Description  2X4 RECESS MOUNTED LED	03 Modular (Track) Fixture	04 Small Aperture & Color Change <sup>1</sup>	05 Watts per luminaire <sup>2</sup>	How Wattage is determined Mfr. Spec <sup>2</sup> Mfr. Spec <sup>2</sup>	Total number luminaires 121 22	Exempt per	Design Watts 3,993 792	Field In	.0 specto
O1 Name or Item Tag A B C D1	ructions: Include all permanent design Wattage: Conditioned Spaces  02  Complete Luminaire Description  2X4 RECESS MOUNTED LED  2X2 RECESS MOUNTED LED	03 Modular (Track) Fixture	04 Small Aperture & Color Change <sup>1</sup>	05 Watts per luminaire <sup>2</sup> 33 36	How Wattage is determined Mfr. Spec <sup>2</sup> Mfr. Spec <sup>2</sup> Mfr. Spec <sup>2</sup>	Total number luminaires 121 22 7	Exempt per	Design Watts 3,993 792 0	Field In	.0 specto
Designed of the Designed of th	Complete Luminaire Description  2X4 RECESS MOUNTED LED 2X2 RECESS MOUNTED LED RECESS MOUNTED LED DO	03  Modular (Track) Fixture	04 Small Aperture & Color Change <sup>1</sup>	05 Watts per luminaire <sup>2</sup> 33 36	How Wattage is determined Mfr. Spec <sup>2</sup> Mfr. Spec <sup>2</sup> Mfr. Spec <sup>2</sup> Mfr. Spec <sup>2</sup>	Total number luminaires 121 22 7 32	Exempt per	Design Watts 3,993 792 0 960	Field In	.0 specto
Designed of Design	Complete Luminaire Description  2X4 RECESS MOUNTED LED  2X2 RECESS MOUNTED LED  RECESS MOUNTED LED  RECESS MOUNTED ROUND LED DOWNSHOWER RATED RECESS MOUNTED	03  Modular (Track) Fixture	04 Small Aperture & Color Change <sup>1</sup>	05 Watts per luminaire <sup>2</sup> 33 36 30	How Wattage is determined Mfr. Spec <sup>2</sup> Mfr. Spec <sup>2</sup> Mfr. Spec <sup>2</sup> Mfr. Spec <sup>2</sup> Mfr. Spec <sup>2</sup>	Total number luminaires  121 22 7 32 4	Exempt per	Design Watts 3,993 792 0 960 120	Field In	.0 specto

ndoor L	Lighting									
	reated 04/21)						CA	LIFORNIA ENERGY O	OMMISSIO	ON.
CERTIFICAT	TE OF COMPLIANCE								N	RCC-LTI-
Project Nar	me: COLORADO SHERIFF-S STATIO	N REMODEL			Report Page:				Pa	age 3 of
Project Ado	dress: 1111 BAILEY AVENUE NEEDLE	S, CA, 92363			Date Prepared	d:			12	/12/202
01	02	03	04	05	06	07	80	09	1	10
Name or	Complete Luminaire Description	Modular	Small Aperture	Watts per	How Wattage is	Total number	Exempt per	Design Watts	Field Ir	nspecto
Item Tag		(Track) Fixture	& Color Change <sup>1</sup>	luminaire <sup>2</sup>	determined	luminaires	§140.6(a)3	_	Pass	Fail
J	SURFACE MOUTNED STRIPLIGHT			31	Mfr. Spec <sup>2</sup>	5		155		
К					Mfr. Spec <sup>2</sup>	3		0		
Х				2	Mfr. Spec <sup>2</sup>	16		32		
					Total Designed	d Watts CONDIT	IONED SPACES:	6,367		

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

H. INDOOR LIGHTIN	G CONTROLS (Not Including PAFs)								6
	ase include lighting controls for condition the lighting controls section of the Compli						_		is table
<b>Building Level Control</b>	s								
	01				02				13
	Mandatory Demand Response			Shut-0	ff Controls			Field In	spector
	§110.12(c)			<u>§1</u>	30.1(c)			Pass	Fail
Area Level Controls									
04	05	06	07	08	09	10	11		12
Area Description		Area Controls	Multi-Level Controls	Shut-Off Controls	Primary/Skylit Daylighting	Secondary Daylighting	Interlock System	Fleiu	inspecto
	Primary Function Area	<u>§130.1(a)</u>	5130.1(b)	§130.1(c)	<u>§130.1(d)</u>	<u>5140.6(d)</u>	§140.6(a	11 Pass	Fail
STORAGE	Commercial and Industrial Storage	Manual ON/ OFF	Exempt*	Occ. Sensor	NA	NA			
									J

CA Building Energy Efficiency Standards	<ul> <li>2019 Nonresidential Compliance: <a href="http://www.energy.ca.gov/title24/2019standard:">http://www.energy.ca.gov/title24/2019standard:</a></li> </ul>	2	April 202

IRCC-LTI-E (Created 04/21) CERTIFICATE OF COMP	HANCE					CALI	FORNIA ENERGY (		CC-LT
	DRADO SHERIFF-S STATION REMODEL			Report Page:					ge 4 o
	BAILEY AVENUE NEEDLES, CA, 92363			Date Prepared:					/12/20
CORRIDOR	Corridor	Manual ON/ OFF	Dimmer	Exempt*	NA	NA			
OFFICES	Office (≤ 250 square feet)	Manual ON/ OFF	Dimmer	Occ. Sensor	NA	NA			
LOBBY	Main Entry Lobby	Manual ON/ OFF	Dimmer	Exempt*	NA	NA			
RESTROOMS	Restroom	Manual ON/ OFF	Exempt*	Occ. Sensor	NA	NA			
CONFERENCE ROOMS	Convention, Conference, Multipurpose, and Meeting Center	Manual ON/ OFF	Dimmer	Occ. Sensor	NA	NA			
LOCKER ROOMS	Locker/Dressing Room	Manual ON/ OFF	Dimmer	Occ. Sensor	NA	NA			
BREAK ROOMS	Lounge	Manual ON/ OFF	Dimmer	Occ. Sensor	NA	NA			
JANITOR ROOM	Electrical, Mechanical, Telephone Rooms	Manual ON/ OFF	Exempt*	Occ. Sensor	NA	NA			
ELEC ROOM	Electrical, Mechanical, Telephone Rooms	Manual ON/ OFF	Exempt*	Exempt*	NA	NA			
NOTES: Controls with	a * require a note in the space below	explaining how co	mpliance is achie	eved.			13		
X: Conference 1: Prim EXCEPTION 1 to 5130.1	ary/Skylight Daylighting: Exempt beca ((d)2	use less than 120 i	watts of general	lighting;		Plan Sheet Shov	ving Daylit Zo	nes:	
STORAGE	Area less than 100 sf								
CORRIDOR	Facility is 24/7 operation.								*
LOBBY	Facility is 24/7 operation								
RESTROOMS	Restroom exception								
JANITOR ROOM	Area less than 100 sf								
ELEC ROOM	Electrical room exemption per NEC								

ea complying using the Complete Building or Area Category Methods per <u>5140.6(b)</u>, Indicate if additional lighting power ).6(a) are being used.

STATE OF CALIFORNIA						
Indoor Lighting						
IRCC-LTI-E (Created 04/21)				CALI	FORNIA ENERGY CO	
CERTIFICATE OF COMPLIANCE						NRCC-LT
		eport Page:				Page 5 or
Project Address: 1111 BAILEY A	'ENUE NEEDLES, CA, 92363	ate Prepared:				12/12/20
01	02	03	04	os.		)6
01	02		04	05		
	Complete Building or Area Category	Allowed	Area	Allowed	Additional	
Area Description	Primary Function Area	Density	(ft <sup>2</sup> )	Wattage		tment
	<u>'</u>	(W/ft <sup>2</sup> )		(Watts)	Area Category	PAF
Conditioned Spaces						
01	02	03	04	05	(	)6
	Consolate Building on Assa Catagonia	Allowed	Area	Allowed	Additional	Allowances /
Area Description	Complete Building or Area Category Primary Function Area	Density	Area (62)	Wattage	Adjus	tment
	Primary Function Area	(W/ft <sup>2</sup> )	(ft²)	(Watts)	Area Category	PAF
STORAGE	Commercial and Industrial Storage	0.6	813.57	488.14		
CORRIDOR	Corridor	0,6	1,365.6	819.36		
OFFICES	Office (≤ 250 square feet)	0.7	1,879.84	1,315.89		
OFFICES	Office (> 250 square feet)	0.65	1,326.75	862.39		
LOBBY	Main Entry Lobby	0.85	179.76	152.8		
RESTROOMS	Restroom	0.65	406	263.9		
CONFERENCE ROOM	Convention, Conference, Multipurpose and Meeting Center	0.85	1,252.51	1,064.63		$\checkmark$
LOCKER ROOMS	Locker/Dressing Room	0.45	660.09	297.04		
BREAK ROOM	Lounge	0.65	319.02	207.36		
INTERVIEW ROOM	Lounge	0.65	212	137.8		
JANITOR ROOM	All Other Space Types	0.4	35,91	14.36		
ELECTRICAL ROOM	Electrical, Mechanical, Velephone Rooms	0.4	155.82	62.33		
		TOTAL	8,606.87	5,686	See Tables J	or P for detai

J. ADDITIONAL LIGHTING ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIG Table Instructions: Please complete the table for all areas indicated in Table La additional allowance per the Area Category Method in Table 140.6-0 K. TAILORED METHOD GENERAL LIGHTING POWER ALLOW Table Instructions: Please complete this table for areas g the Tailored Method per §140.6(c)3. Indicate below if additional Tailored Method "use it or lose it" allowances are needed. Lighting that qualifies for one of the additional allowances shall not qualify for another additional allowance.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.ene

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

	STATE OF CALIFORNIA				•						
	Indoor Lighting										
	NRCC-LTI-E (Creates 04/21) CERTNEICATE OF COMPLIANCE								CALIFOR	NIA ENERGY COMI	NRCC-LTI-E
		HERIFF-S STATION REMO	ODEL			Renor	t Page:				Page 6 of 9
	Project Address: 1111 BAILEY					_	Prepared:				12/12/2022
	Table Continued										
	Additional "Use it or lose it" Allowance (Watts								0	)1	
	General Lighting Power Allowance	Wall Display		Floor Display & Task Lighting	Ornamenta  & Special Effects		Very Valuable Merchandise	Total Al	llowed Watts (	using Tailored	Method
	Table K (below)	Table L		Table M	Table N	$\top$	Table O	1			
	1,252.51								1,25	2.51	
	Calculated General Lighting Pov	wer Allowance									
	02	0	)3		04		05	06	07	08	09
	Area Description	Primary Fu per <u>Table</u>			Illuminance Value (LUX)		Room Configuration	Allowed Density (W/ ft <sup>2</sup> )	Area (ft <sup>2</sup> )	Extra Allowance (Watts)	Power Adjustment (See Table P)
	CONFERENCE ROOM	Multipur	pose A	rea	300		Rectangular	1	1,252.51	1,252.51	☐ PAF
						Ro	oom Length (ft)	Room Width (ft)	Room Height (ft)	Room Cavity Ratio (RCR)	
							25.4	14.28	9	4.92	
						Total	General Power	Allowance (Wa	atts) CONDITIO	ONED SPACES:	1,252.51
4											

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY
This Section Does Not Apply
M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING
This Section Does Not Apply
N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS
This Section Does Not Apply
O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE
This Section Does Not Apply

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

STATE OF CALIFORNIA Indoor Lighting NRCC-LTI-E (Created 04/21) CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE Project Name: COLORADO SHERIFF-S STATION REMODEL Page 7 of 9 Project Address: 1111 BAILEY AVENUE NEEDLES, CA, 92363 P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FAC Table Instructions: Please complete the table for all areas indicated in Table I or Table K as using a PAF credit described in §14 CONFERENCE ROOM FOOTNOTES: PAFs outlined in Table 140.6-A include 1) Daylight dimming plus OFF; 2A) Occupant sensors in offices < 125 ft<sup>2</sup>; 2B) Occupant sensors in offices from 126 - 250 ft<sup>2</sup>; 2C) Occupant sensors in offices from 251 - 500 ft2; 3A) Institutional tuning, non-daylit areas; 3B) Institutional tuning, daylit areas; 4) Demand response; 5) Clerestory fenestration; 6) Horizontal slats; 7) Light shelves. <sup>2</sup> Luminaires that qualify for PAF 5, 6, or 7 can be used in conjunction with PAF 1. Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS This Section Does Not Apply R. 80% LIGHTING POWER FOR ALTERATIONS - CONTROLS EXCEPT This Section Does Not Apply S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF) RED CERTIFICATES OF INSTALLATION T. DECLARATION OF REQU een made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in marks. These documents must be provided to the building inspector during construction and can be found online at https://www2.energy.ca.gov/ ompliance documents/Nonresidential Documents/NRCI/ Field Inspector NRCI-LTI-01-E - Must be submitted for all buildly LTI-02-E - Must be submitted for a lighting con stem, or for an Energy Management Control System (EMCS), to be TI-04-E - Must be submitted for two interlocked ms serving an auditorium, a convention center, a conference m, a multipurpose room, or a theater to be recogn r compliance.

CA Building Energy Efficiency Standards - 2019 Nowes p://www.energy.ca.gov/title24/2019standards

.TI-05-E - Must be submitted for a Power Ad

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

STATE OF CALIFORNIA

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

NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF). NRCA-ENV-03-F - Must be submitted for daylighting design power adjustment factors (PAF).

STATE OF CALIF	FORNIA							
Indoor Li	ighting							
NRCC-LTI-E (Cre	eated 04/21)	CALIFO	ORNIA ENERGY COMM	ISSION				
CERTIFICATE	E OF COMPLI	ANCE		NRCC-LTI-E				
Project Nam	e: COLOR	ADO SHERIFF-S STATION REMODEL Report Page:		Page 8 of 9				
Project Addr	ress: 1111 B	ALLEY AVENUE NEEDLES, CA, 92363 Date Prepared:		12/12/2022				
0		WRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.						
U. DECLAR	ATION OF R	REQUIRED CERTIFICATES OF ACCEPTANCE		?				
Table E. Add	ditional Remo	tions have been made based on information provided in previous tables of this document. If any selection needs to be chan orks. These documents must be provided to the building inspector during construction and any with "-A" in the form name i ian Certification Provider (ATTCP). For more information visit: <u>http://www.energy.ca.gov/title24/attcp/providers.html</u>						
YES	NO	NO Form/Title						
			Pass	Fail				
	0	TI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.						

Factor (PAF) to be recognized for compliance.

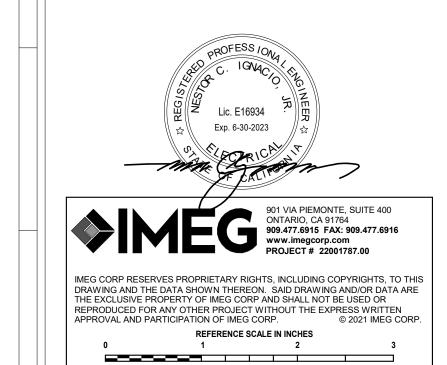
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

Indoor Lighting			
NRCC-LTI-E (Created 04/21)			CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIAN			NRCC-LTI-
,	O SHERIFF-S STATION REMODEL	Report Page:	Page 9 of
Project Address: 1111 BAIL	EY AVENUE NEEDLES, CA, 92363	Date Prepared:	12/12/202
DOCUMENTATION AUTH	IOR'S DECLARATION STATEMENT		[2
I certify that this Certificate	of Compliance documentation is accurate and com	plete	_
Documentation Author Nan	ne: NESTOR IGNACIO	Documentation Author Signature: ////////	Gomm
Company:	IMEG CORP.	Signature Date:	/12/2022
Address:	901 VIA PIEMONTE SUITE 400	CEA/ HERS Certification Identification (if applical	ble):
City (State (7))	ONTARIO CA 01764		
The information provide     I am eligible under Divisi     Compliance (responsible)	r penalty of perjury, under the laws of the State or d on this Certificate of Compliance is true and cor- tion 3 of the Business and Professions Code to acce designer)	rect. pt responsibility for the building design or system design	identified on this Certificate of
RESPONSIBLE PERSON'S DE I certify the following unde 1. The information provide 2. I am eligible under Divisi Compliance (responsible 3. The energy features and Certificate of Complianc 4. The building design feat compliance documents, 5. I will ensure that a comp to the enforcement ager	CLARATION STATEMENT or penalty of perjury, under the laws of the State of d on this Certificate of Compliance is true and cordion 3 of the Business and Professions Code to acceledesigner) performance specifications, materials, component of conform to the requirements of Title 24, Part 1 acres or system design features identified on this Components, calculations, plans and specifications of the signed copy of this Certificate of Compliance of the signed copy of this Certificate of Compliance of Complia	f California: rect. pt responsibility for the building design or system design ts, and manufactured devices for the building design or s	identified on this Certificate of ystem design identified on this ion provided on other applicable this building permit application. ed for the building, and made available
RESPONSIBLE PERSON'S DE I certify the following unde 1. The information provide 2. I am eligible under Divisi Compliance (responsible 3. The energy features and Certificate of Complianc 4. The building design feat compliance documents, 5. I will ensure that a comp to the enforcement ager	CLARATION STATEMENT or penalty of perjury, under the laws of the State of d on this Certificate of Compliance is true and cord ion 3 of the Business and Professions Code to accel designer) performance specifications, materials, component e conform to the requirements of Title 24, Part 1 a ures or system design features identified on this C worksheets, calculations, plans and specifications of the signed copy of this Certificate of Compliance and the provides to the building owner at occupancy.	f California: rect. pt responsibility for the building design or system design ts, and manufactured devices for the building design or s nd Part 6 of the California Code of Regulations. ertificate of Compliance are consistent with the informati submitted to the enforcement agency for approval with a shall be made available with the building permit(s) issue t a completed signed copy of this Certificate of Compliance	identified on this Certificate of ystem design identified on this ion provided on other applicable this building permit application. ed for the building, and made available te is required to be included with the
RESPONSIBLE PERSON'S DE I certify the following unde 1. The information provide 2. I am eligible under Divisi Compliance (responsible 3. The energy features and Certificate of Compliance 4. The building design feature compliance documents, 5. I will ensure that a compliance to the enforcement ager documentation the build	CLARATION STATEMENT or penalty of perjury, under the laws of the State of d on this Certificate of Compliance is true and cord ion 3 of the Business and Professions Code to accel designer) performance specifications, materials, component e conform to the requirements of Title 24, Part 1 a ures or system design features identified on this C worksheets, calculations, plans and specifications of the signed copy of this Certificate of Compliance and the provides to the building owner at occupancy.	f California: rect. pt responsibility for the building design or system design ts, and manufactured devices for the building design or s nd Part 6 of the California Code of Regulations. ertificate of Compliance are consistent with the informati submitted to the enforcement agency for approval with t e shall be made available with the building permit(s) issue t a completed signed copy of this Certificate of Compliance Responsible Designer Signature:	identified on this Certificate of ystem design identified on this ion provided on other applicable this building permit application. ed for the building, and made available
RESPONSIBLE PERSON'S DE I certify the following unde 1. The information provide 2. I am eligible under Divisi Compliance (responsible 3. The energy features and Certificate of Compliance 4. The building design feati compliance documents, 5. I will ensure that a comp to the enforcement ager documentation the build Responsible Designer Name	CLARATION STATEMENT or penalty of perjury, under the laws of the State of don this Certificate of Compliance is true and cordion 3 of the Business and Professions Code to acceledesigner) performance specifications, materials, component e conform to the requirements of Title 24, Part 1 acceleres or system design features identified on this Coworksheets, calculations, plans and specifications eleted signed copy of this Certificate of Compliance of the complian	f California: rect. pt responsibility for the building design or system design ts, and manufactured devices for the building design or s nd Part 6 of the California Code of Regulations. ertificate of Compliance are consistent with the informati submitted to the enforcement agency for approval with t e shall be made available with the building permit(s) issue t a completed signed copy of this Certificate of Compliance Responsible Designer Signature:	identified on this Certificate of system design identified on this ion provided on other applicable this building permit application. In the defendence is required to be included with the

COLORADO RIVER STATION REMODEL 1111 BAILEY AVENUE NEEDLES, CA. 92363 FOR THE SAN BERNARDINO COUNTY SHERIFF'S DEPARTMENT

> WBSE #: 10.10.1220 CAFM #: NEE004 CIP #: 22-030

**KEY NOTES** 



marks architects 73121 fred waring drive

**DECEMBER 15, 2022** REVISIONS 3022006 DRAWING NUMBER

	Project Name
12/21/2022 9:22:29	
	rolect Number

TATE OF CALIFORNIA						
lectrical Power Distribut	tion					
RCC-ELC-E (Created 01/20)						CALIFORNIA ENERGY COMMISSION
ERTIFICATE OF COMPLIANCE						NRCC-ELC-E
his document is used to demonstra	ite compliance with m	andatory requirement	s in <u>§130.5</u> for	electrical systen	ns in newly const	tructed nonresidential, high-rise residential and
otel/motel occupancies. Additions	and alterations to ele	ctrical service systems	in these occup	ancies will also i	use this docume	nt to demonstrate compliance per §141.0(a) or
141.0(b)2P for alterations.						
roject Name: COLORADO RIVER	STATION REMODEL			Report Pag	e:	Page 1 of 5
roject Address: 1111 BAILEY AVEN	IUE NEEDLES, CA, 923	63		Date Prepa	red:	12/12/2022
A. GENERAL INFORMATION						?
01 Project Location (city)		NEEDLES	02	Occupancy Type	s Within Project	t:
✓ Office R	etail	■ Warehouse		lotel/ Motel	☐ Sch	ool Support Areas
Parking Garage	ligh-Rise Residential	Relocatable	□ +	lealthcare Facilit	ties 🗌 Oth	ner (Write In):
3. PROJECT SCOPE						2
able Instructions: Include any elect	rical service systems t	hat are within the scop	oe of the permi	t application.		
01	(	)2	03	04	05	06
						Demand Response Controls
				Utility	System	Where required, demand response controls must
				Provided	subject to CA	be specified which are capable of receiving and
Electrical Service			Rating	Metering	Elec Code	automatically responding to at least one
Designation/	Scope o	of Work <sup>1</sup>	(kVA)	System		standards based messaging protocol which
Description			(1.47-1)	Exception to	Exception to	enables demand response after receiving a
				§130.5(a) <sup>2</sup>	§130.5(a)&(b)	demand response signal. Sections §120.2, §130.1
			ı	\$120°2(9).	3120'2(9)¢(0)	164000 1 11 11 1 11000

and §130.3 and compliance documents NRCC-MCH, NRCC-LTI and NRCC-LTS will indicate when

demand response controls are required.

FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c), no other requirements from 130.5 are required. <sup>2</sup> Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.

New electrical service equipment &

	C. COMPLIANCE RES	ULTS						(2)
	Table Instructions: If th	is table	says "DOES NOT COM	PLY" re,	fer to Table D. for guida	nce an	d review the Table that	indicates "No".
	01		02		03		04	05
	Service Electrical Metering §130.5(a)	AND	Separation for Monitoring §130.5(b)	AND	Voltage Drop §130.5(c)	AND	Controlled Receptacles §130.5(d)	Compliance Results
ı	(See Table F)		(See Table G)		(See Table H)	1	(See Table I)	
		AND	Yes	AND	Yes	AND	Yes	COMPLIES with Exceptional Conditions
- 1		AND	Yes	AND	Yes	AND	Yes	COMPLIES with Exceptional Conditions

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CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

STATE OF CALIFORNIA

F. SERVICE ELECTRICAL METERING

MS

Electrical Power Distribution		
NRCC-ELC-E (Created 01/20)	CALIFOR	NIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE		NRCC-EL
Project Name: COLORADO RIVER STATION REMODEL	Report Page:	Page 2
Project Address: 1111 BAILEY AVENUE NEEDLES, CA, 92363	Date Prepared:	12/12/2
D. EXCEPTIONAL CONDITIONS		
This table is auto-filled with uneditable comments because of selections made or data	entered in tables throughout the form.	
Table B indicates the project is exempt from §130.5(a) Service Electrical Metering req indicates instantaneous kW demand and kWh for a utility-definied period. Table H. indicates voltage drop calculations will be provided by the contractor.	uirements because the utility company has provided the project	ct a metering system that
E. ADDITIONAL REMARKS		

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

This Section Does Not Apply
G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING

Table Instructions: Complete this table for entirely new or complete replacement electrical power distribution systems to demonstrate compliance with §130.5(b), Using the dropdown choices in column 01, indicate the load types included for each service. Any load types that are not included in the service do not need to be shown.

Electrical Service Designation/Description:	MS					
01	02	03	04		05	
Load Type per <u>Table 130.5-B</u> 1	Minimum Required Separation of Load per <u>Table 130.5-B</u>	Compliance Method <sup>2</sup>	Location of Requirements in Construction Documents	Field In	spector Fail	
Lighting including exit, egress and exterior	All lighting disaggregated by floor, type or area	Method 3	E0.6, E0.7			
HVAC systems and components	All HVAC in aggregate and each HVAC load rated at least 50 kVA	Method 3	E0.6, E0.7			
* NOTES: If "Other*" is selected under Compliance N	NOTES: If "Other*" is selected under Compliance Method above, please indicate how compliance has been achieved in the space provided below.					

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

STATE OF CALIFORNIA

Electrical Power Distribution								
NRCC-ELC-E (Created 01/20)  CALIFORNIA ENERGY COMMISSION								
	CERTIFICATE OF COMPLIANCE	NRCC-EI	LC-E					
	Project Name: COLORADO RIVER STATION REMODEL	Report Page: Page 3	of 5					
	Project Address: 1111 BAILEY AVENUE NEEDLES, CA, 92363	Date Prepared: 12/12/2	022					

1 FOOTNOTES: For each separate load type, up to 10% of the connected load may be of any type.

<sup>2</sup> 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 & provisions for adding future branch curcuit monitoring

Method 4: Complete metering system measures and reports loads by type

See <u>Chapter 8 of the Nonresidential Compliance Manual for more detail on Compliance Methods.</u>								
H. VOLTAGE DROP	. VOLTAGE DROP							
			electrical power distribution system				oth	
feeders and branch circuits to dem	onstrate compliance with §	130.5(c). For alterations, o	nly the altered circuits must demon	strate compliance per §	141.0/b)2Pii	L.		
01	0	2	03	04		0	5	
Electrical Service	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method		Location of Voltage Drop Calculations <sup>1</sup>	Sheet Number for Voltage Dr Calculations in Construction		Field Inspector		
Designation/ Description	Circuit Conductors	compliance ivietnod	Calculations	Doguments		Pass	Fail	
MS	✓Voltage drop < 5%	Permitted by CA Elec Code (Exception to §130.5(c))*	Contractor Responsible					

\*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 Re

. CIRCUIT CONTROLS FOR 120	-VOLT RECEPTACLES AND CONTROL	LED RECEPTACLES				- 6
		e replacement electrical power distribution lobbies, conference rooms, kitchen areas ir				
01	02	03	04	05		6
Room Name	Location/ Type of Controlled	Shut-Off Controls		Location of Requirements in Construction	Field In	specto
or Description	Receptacles		Marking Will be Used	Documents	Pass	Fail
OFFICES	Split-wired receptacles	Occupancy Sensor	<b>7</b>	E2.4, E2.5		
CONFERENCE ROOM	Split-wired receptacles	Occupancy Sensor		E2.4, E2.5		
LOBBY	Split-wired receptacles	Occupancy Sensor	Ø	E2.4, E2.5		
				Add Row	Remov	ve Last
Table Continued						

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title2

STATE OF CALIFORNIA **Electrical Power Distribution** 

NRCC-ELC-E (Created 01/20)  CALIFORNIA ENERGY COMMISSION										
CERTIFICATE OF COMPLIANCE	RTIFICATE OF COMPLIANCE NRCC-ELC-E									
roject Name: COLORADO RIVER STATION REMODEL Report Page: Page 4 of 5										
Project Address: 1111 BAILEY AVENUE NEEDLES, CA, 92363 Date Prepared: 12/12/2022										
		·								
01 02		03	04	05	0	6				
Room Name	Location/ Type of Controlled	Shut-Off Controls	Durable	Location of Requirements in Construction	Field Inspector					
or Description	Receptacles	oner on control	Marking Will be Used	Documents	Pass	Fail				
'If "Other*" is selected under Compliance Method above, please indicate how compliance has been achieved in the space provided below.										

Table Instru	ctions: Selec	tions have been made based on information provided in previous tables of this document. If any selection needs to be changed,	please expla	in why in
		orks. These documents must be provided to the building inspector during construction and can be found online at <a href="https://wwwz.ei">https://wwwz.ei</a> 019 compliance documents/Nonresidential Documents/NRCI/	nergy.ca.gov	_
YES	NO	Form/Title	Field Inspector	
163	NO		Pass	Fail
•	0	NRCI-ELC-01-E - Must be submitted for all buildings.		
K. DECLAR	ATION OF R	EQUIRED CERTIFICATES OF ACCEPTANCE		
There are n	o Certificates	of Acceptance applicable to electrical power distribution requirements.		

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

STATE OF CALIFORNIA **Electrical Power Distribution** 

NRCC-ELC-E (Created 01/20)				CALIFORNIA ENERGY	COMMISSION
CERTIFICATE OF COMPLIANCE					NRCC-ELC-E
Project Name: COLORADO	RIVER STATION REMODEL		Report Page:		Page 5 of
Project Address: 1111 BAILEY	AVENUE NEEDLES, CA, 92363		Date Prepared:		12/12/2027
DOCUMENTATION AUTHO	PR'S DECLARATION STATEMENT				Y 2
I certify that this Certificate o	f Compliance documentation is accurate and complete.				
Documentation Author Name	: NESTOR IGNACIO	Documen	tation Author Signature: //////	Gomm	
Company:	IMEG CORP.	Signature	Date:	12/2/2022	
Address:	901 VIA PIEMONTE SUITE 400	CEA/ HER	S Certification Identification (if app	icable):	
City/State/Zip:	ONTARIO, CA 91764	Phone:	(909)	477-6915	
DESPONSIBLE DEDSON'S DEC	ARATION STATEMENT				

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 Co 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 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:	NESTOR (GNACIO	Responsible Designer Signature:			
Company:	IMEG CORP.	Date Signed: 12/12/2072			
Address:	901 VIA PIEMONTE SUITE 400	License: E1 <del>693</del> 4			
as to the					

ergy Efficiency Standards - 2019 Nonresidential Compliance: http://w

January 2020

COLORADO RIVER STATION REMODEL 1111 BAILEY AVENUE NEEDLES, CA. 92363 FOR THE

SAN BERNARDINO COUNTY SHERIFF'S DEPARTMENT

WBSE #: 10.10.1220 CAFM #: NEE004 CIP #: 22-030

**KEY NOTES** 





**DECEMBER 15, 2022** REVISIONS

DRAWING NUMBER E0.10

3022006

