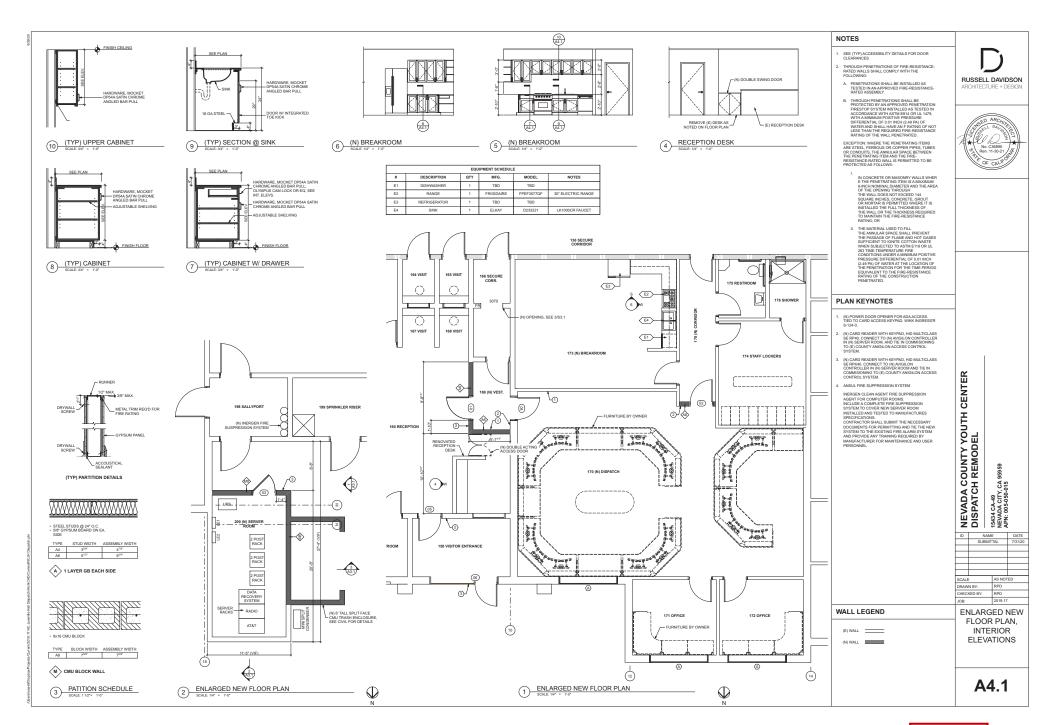
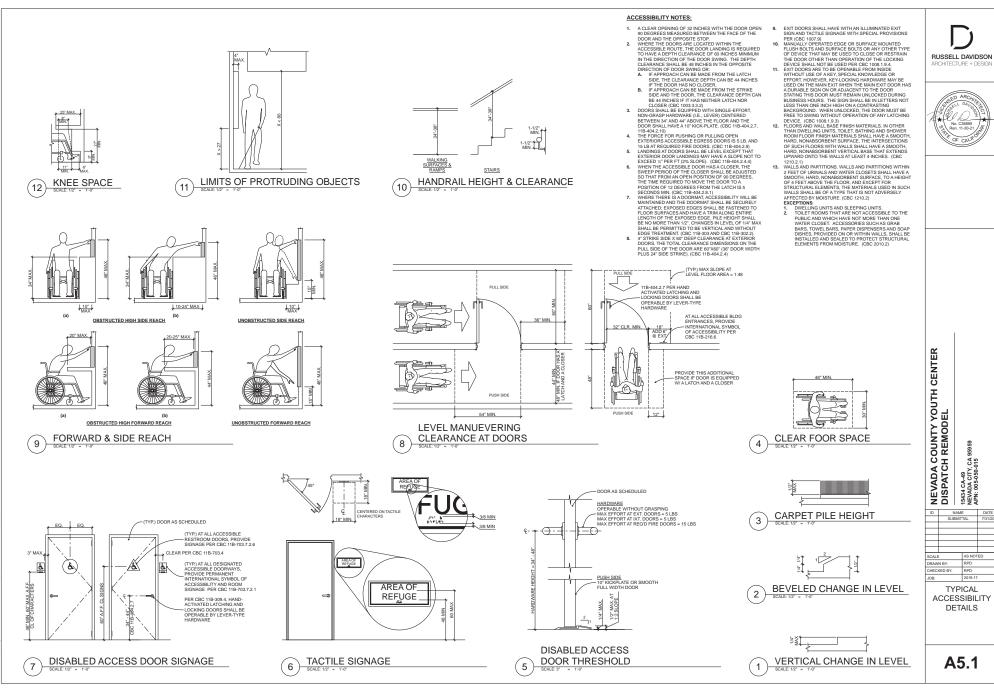




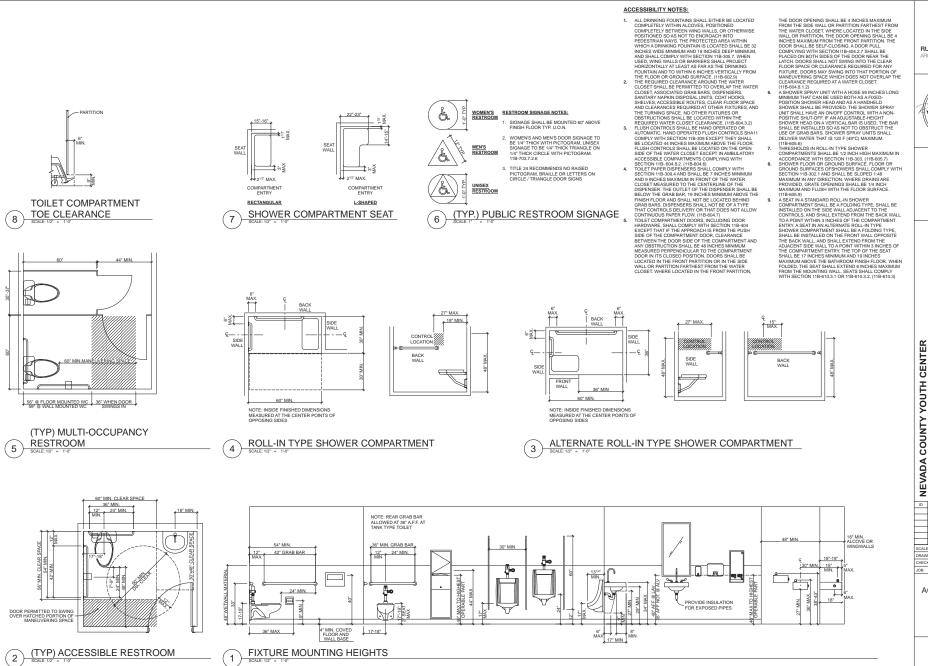
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SCALE		AS NOTED		
DRAWN BY:		RPD		
CHEC	KED BY:	RPD		
JOB:		2019.17		















IEVADA COUNTY YOUTH

NEVADA CO	DISPATCH		15434 CA-49 NEVADA CITY, CA 9 APN: 005-050-015						
ID	N	IAM		DATE					
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CALE			AS NOTED						
RAWN BY:			RPD						
HECKED BY:			RPD						
OB:			2019.17						
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TYPICAL **ACCESSIBILITY** DETAILS

A5.2

When the following are specified in individual sections, submit them for review. Product data. Shop drawings. Samples for selection. Samples for verification. Submit to Architect for review for the limited purpose of checking for compliance with information given and the design concept expressed in Contract Documents. Samples will be reviewed for aesthetic, color, or finish selection. After review, provide copies and distribute in accordance with SUBMITTAL PROCEDURES article below and for record documents purposes described in Section 017800 - Closeout Submittals. SUBMITTALS FOR PROJECT CLOSEOUT Submit Correction Punch List for Substantial Completion.
Submit Final Correction Punch List for Substantial Completion. When the following are specified in individual sections, submit them at project closeout in compliance with requirements of Section 017800 - Closeout Submittals: Project record documents. Operation and maintenance data. Warranties. Bonds. Other types as indicated. Submit for Owner's benefit during and after project completion. SUBMITTAL PROCEDURES General Requirements: Use a single transmittal for related items. Shop Drawing Procedures:

Prepare accurate, drawn-to-scale, original shop drawing documentation by interpreting Contract Documents and coordinating related work. Do not reproduce Contract Documents to create shop drawings.

Generic, non-project-specific information submitted as shop drawings do not meet the requirements for shop drawings. ittals for Review: Architect will review each submittal, and approve, or take other appropriate ittals for Information: Architect will acknowledge receipt and review. See below for actions to Architect's actions will be reflected by marking each returned submittal using virtual stamp on Architect's and consultants' actions on items submitted for review: and consumants actions on terms submitted for review: orizing purchasing, fabrication, delivery, and installation: "Approved", or language with same legal meaning. "Approved as Noted, Resubmission not required", or language with same legal meaning.

Al Contractor's option, submit corrected item, with review notations acknowledged and incorporated.

*Approved as Noted, Resulmit for Record', or language with same legal meaning.

Not Authorizing fabrication, delivery, and installation: Architect's and consultants' actions on items submitted for information:
Items for which no action was taken:
"Received" - to notify the Contractor that the submittal has been received for record Items for which action was taken:
"Reviewed" - no further action is required from Contractor. FND OF SECTION SECURITY PROCEDURES Protect Work , existing premises and Owner's operations from theft, vandalism, and unauthorized Initiate program in coordination with Owner's existing security system at project mobilization PART 3 EXECUTION - NOT USED END OF SECTION GENERAL PROCEDURES AND PROJECT CONDITIONS Comply with applicable codes and regulations for demolition operations and safety of adjacent structures and the public. tures and the public.

Obtain required permits.

Take precautions to prevent catastrophic or uncontrolled collapse of structures to be structures to be structures and after worker or public access within range of potential collapse of unstable structures.

Provide, erect, and maintain temporary barriers and security devices. SELECTIVE DEMOLITION FOR ALTERATIONS Drawings showing existing construction and utilities are based on casual field observation and existing record documents only. Remove existing work as indicated and as required to accomplish new work. Services (Including but not limited to HVAC, Plumbing, Fire Protection, Electrical, Telecommunications, and [_____]): Remove existing systems and equipment as indicated rotect existing work to remain. DEBRIS AND WASTE REMOVAL END OF SECTION UNIT MASONRY PART 1 GENERAL Product Data: Provide data for masonry units, fabricated wire reinforcement, mortar, and masonry Manufacturer's Certificate: Certify that masonry units meet or exceed specified requirements. Manufacturer's Certificate: Certify that water repellent admixture manufacturer has certified masony unit manufacturer as an approved user of water repellent admixture in the manufacture of concrete block. NCRETE MASONRY UNITS

Concrete Block: Comply with referenced standards and as follows:
Size: Standard units with nominal base dimensions of 16 by 8 inches (400 by 200 mm) and
Size: Standard units with nominal base dimensions of 16 by 8 inches (400 by 200 mm) and
Special Shapes: Provide non-attended blocks configured for corners.
Load-Bearing Units: ASTIA CSD, normal weight,
Hellow block, as indicated.
Non-Load-Bearing Units: ASTIA C129.
Hellow block, as indicated.
Units with Integral Water Repellent: Concrete block units as specified in this section with polymetic (ingula distributes added to concrete misonry units at the time of manufacture. MORTAR AND GROUT MATERIALS Mortar and Grout: As specified in Section 040511.

Masonry Cement: ASTM C91/C91M, Type N.

Moisture-Resistant Admixture: Water repellent compound designed to reduce capillarity Integral Water Repellent Admixture for Mortar: Polymeric liquid admixture added to mortar at the time of manufacture. since of manufacture.

Prolicaged Dry Marterial for Mortar for Unit Mascony: Premixed Portfand cement, hydrated line, and sand, complying with SCTM CTTM 60-TM will and capable of producing mortar of the specified stands.

Type: Type N.
Color: Match existing.

Mater-repellent mortar for use with water-repellent masonry units. aged Dry Material for Mortar for Repointing: Premixed Portland cement, hydrated lime, and d sand; capable of producing Type O mortar in accordance with ASTM C270 with the addition of water only.
Color: Match existing REINFORCEMENT AND ANCHORAGE FLASHINGS Metal Flashing Materials: Stainless Steel, as specified in Section 076200. wetai irasining kateriais: Statriesis steet, as speciated in section 0 r0x.00.

Metal Flashing Materiais:
Stainless Steel Flashing: ASTM A686, Type 304, soft temper; 26 gage, 0.0187 inch (0.48 mm) thick, finish 28 to 20.
Prefabricated Metal Flashing: Smooth fabricated 12 oz/sq ft (3.66 kg/sq m) copper flashing for surface mounted conditions. Factory-Fabricated Flashing Corners and End Dams: Stainless steel. Flashing Sealant/Adhesives: Silicone, polyurethane, or sily-terminated polyether/polyurethane or other type required or recommended by flashing manufacturer, type capable of adhering to type of flashing used. Fermination Bars: Stainless steel: compatible with membrane and adhesives Drip Edge: Stainless steel; angled drip with hemmed edge; compatible with membrane and Lap Sealants and Tapes: As recommended by flashing manufacturer; compatible with membrane and artherines MORTAR AND GROUT MIXING TAR AND GROUT MIXING
Mortar for Unit Masonry. ASTM C270, using the Proportion Specification.
Exterior, loadbearing masonry. Type N.
Exterior, non-loadbearing masonry. Type N.
Interior, bastbearing masonry. Type N.
Interior, bastbearing masonry. Type N.
Interior, bastbearing masonry. Type O.
Mixing: Use mechanical batch mixer and comply with referenced standards. PART 3 EXECUTION COLD AND HOT WEATHER REQUIREMENTS Comply with requirements of ACI 530/530.1/ERTA or applicable building code, whichever is more stringent. Establish lines, levels, and coursing indicated. Protect from displacement Maintain masonry courses to uniform dimension. Form vertical and horizontal joints of uniform thickness. Concrete Masonry Units:
Bond: Running.
Coursing: One unit and one mortar joint to equal 8 inches (200 mm).
Mortar Joints: Concave. PLACING AND BONDING Lay hollow masonry units with face shell bedding on head and bed joints.

Perform job site cutting of masonry units with proper tools to provide straight, clean, unchipped edges. Prevent broken masonry unit corners or edges. REINFORCEMENT AND ANCHORAGE - GENERAL, SINGLE WYTHE MASONRY, and CAVITY WALL MASONRY. Unless otherwise indicated on drawings or specified under specific wall type, install horizontal joint reinforcement 16 inches (400 mm) on center. remorcement 16 inches (400 mm) on center.

Place masonry joint reinforcement in first and second horizontal joints above and below openings.

Extend minimum 16 inches (400 mm) each side of opening. Place continuous joint reinforcement in first and second joint below top of walls Embed longitudinal wires of joint reinforcement in mortar joint with at least 5/8 inch (16 mm) mortar cover on each side. Lap joint reinforcement ends minimum 6 inches (150 mm). MASONRY FLASHINGS Whether or not specifically indicated, install masonry flashing to divert water to exterior at all locations where downward flow of water will be interrupted. locations where downward one or water will be interrupted.

Install flashing in accordance with mandacturer's instructions and BIA Technical Notes No. 7.

Extend metall flashings through exterior face of masonry and terminate in an angled drip with

Bermined degle. Install joint sealer belong vide godg to prevent insisture migration under flashing.

Extend metall flashings to within 1/2 inch (12 mm) of exterior face of masonry and adhere to top of stainless sete angled drip with hermined edge. FND OF SECTION ARCHITECTURAL WOOD CASEWORK PART 1 GENERAL PART 2 PRODUCTS

Quality Standard: Custom Grade, in accordance with AWVAWMAC/WI (AWS) or AWMAC/WI (NAAWS), unless noted otherwise.

Plastic Laminate Faced Cabinets: Custom grade.

Cabinets: Finish - Exposed Exterior Surfaces: Pearl Scapstone #4886-38. Casework Construction Type: Type A - Frameless.

WOOD-BASED COMPONENTS ated from old growth timber is not permitted.

LAMINATE MATERIALS Thermally Fused Laminate (TFL): Melamine resin, NEMA LD 3, Type VGL laminate panels.

Countertops are specified in Section 123600.

Plastic Laminate Countertops: Medium density fiberboard substrate covered with HPDL, conventionally fabricated and self-edge banded. ACCESSORIES

Adhesive: Type recommended by fabricator to suit application

HARDWARE

Hardware: BHMA A156.9, types as recommended by fabricator for quality grade specified.

Adjustable Shell Supports: Standard side-mounted system using recessed metal shelf standards or multiple holes for pin supports and coordinated self rests, polished chrome finish, for nominal 1 inch (25 mm) soacing adjustments. Drawer and Door Pulls: "U" shaped wire pull, steel with chrome finish, 4 inch centers ("U" shaped wire pull, steel with chrome finish, 100 mm centers).

Cabinet Locks: Keyed cylinder, two keys per lock, master keyed, steel with chrome finish.

Drawer Slides: Type: Full extension. Static Load Capacity: Commercial grade. Mounting: Side mounted.

Hinges: European style concealed self-closing type, steel with polished finish. Soft Close Adapter: Concealed, frame-mounted, screw-adjustable damper; steel with polished piece for any single length.

Filting: When necessary to can did no site, provide materials with ample allowance for criting.

Filting: When necessary to can did no site, provide materials with ample allowance for criting.

Plastic Laminate: Apply plastic laminate finish in full uninterrupted shorts consistent with

Plastic Laminate. Apply plastic laminate finish in full uninterrupted shorts consistent with

artises. Locate counter bull prior minimum 2 feet from sink out-outs. (Locate counter bull plores

minimum 600 mm from sink out-outs.)

Cap expose oppositic laminate fireshie deges with material of same finish and pattern.

Provide causes for plumbing flatures. Verify locations of custous from on-site dimensions. Prime

parts out degless.

Assembly: Shop assemble cabinets for delivery to site in units easily handled and to permit passage through building openings.

Edging: Fit shelves, doors, and exposed edges with specified edging. Do not use more than one piece for any single length.

parint cut edges.

SHOP FINISHING

Sand work smooth and set exposed nails and screws.

For opaque finishes, apply wood filter in exposed nail and screw indentations and sand smooth. On items to receive transparent finishes, use wood filler matching or blending with surrounding surfaces and of types recommended for applied finishes.

Finish work in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), Section 5 - Finishing for grade specified and as follows:

PART 3 EXECUTION INSTALLATION

Install work in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS) requirements for grade indicated.

Set and secure custom cabinets in place, assuring that they are rigid, plumb, and level.

END OF SECTION

COMMON WORK RESULTS FOR FLOORING PREPARATION

PART 1 GENERAL

Floor Covering and Adhesive Manufacturers' Product Literature: For each specific combination of substrate, floor covering, and adhesive to be used; showing: Adhesive Bond and Compatibility Test Report.

QUALITY ASSURANCE

Contractor may perform adhesive and bond test with Contractor's own personnel or hire a testing

PART 2 PRODUCTS

MATERIALS
Alternate Flooring Adhesive: Floor covering manufacturer's recommended product, suitable for the motisture and pH conditions present; low-VOC. In the absence of any recommendation from flooring manufacture, provide a product recommended by adhesive manufacturer as suitable for substants and floor covering and for conditions present.

PART 3 EXECUTION.

CONCRETE SLAB PREPARATION

TE SLAB PREPARATION

The Management of the Control of the Control

ADHESIVE BOND AND COMPATIBILITY TESTING

Comply with requirements and recommendations of floor covering manufacturer END OF SECTION

RESILIENT FLOORING

PART 1 GENERAL PART 2 PRODUCTS TILE FLOORING

Vinyl Tile - VT-1: Solid vinyl with color and pattern throughout thickness.

Minimum Requirements: Comply with ASTM F1700, of Class corresponding to type

Minimum Requirements. Comp., specified.
Plank Tile Size: 7 by 48 inch.

"Your Thickness: .02 inch (20 mm mm).

Wear Layer Thickness: .02 inch (20 mm Total Thickness: [.118] inch ([.....] mm) Pattern: Transcend 5529V. Color: Portabello 00765.

RESILIENT BASE

ilient Base - Type RB-1: ASTM F1861, Type TS rubber, vulcanized thermoset; top set Style B,

Height: 4 inch (100 mm). Thickness: 0.080 inch (2.0 mm). Finish: Satin. Color: 217 Charcoal.

PART 3 EXECUTION Installation - General

Starting installation constitutes acceptance of subfloor conditions Install in accordance with manufacturer's written instructions.

Installation - Tile Flooring

Mix tile from container to ensure shade variations are consistent when tile is placed, unless otherwise indicated in manufacturer's installation instructions.

Install plank tile with a random offset of at least 6 inches (152 mm) from adjacent rows

Installation - Resilient Base

Fit joints tightly and make vertical. Maintain minimum dimension of 18 inches (45 mm) between

END OF SECTION

RESILIENT TILE FLOORING

PART 1 GENERAL SUBMITTALS

Manufacturer's documentation for flooring and accessories

Verification Samples: Submit two samples, 4 by 4 inch (100 by 100 mm) in size illustrating color and pattern for each resilient flooring product specified.

QUALITY ASSURANCE PART 2 PRODUCTS

Luxury Vinyl Plank and Tile: Pattern: Transcend 5529V Color: Portabello 00765.

Acceptance of Condisons: Carefully examine all installation areas with installer/applicator present, for compliance with requirements affecting work performance. Verify that feld measurements, product, adhesives, substrates, surfaces, structural support, tolerances, leveliness, temperature, hurnifor, micisture content level, pt. cleanliness and other conditions are as required by the manufacturer, and ready to receive work.

INSTALLATION

Installation per manufacturer's written instructions. Section 01 7000, and as follows

Institute of the institute of the second of

Check cartons for and do not mix dye lots. Expansion Joints: Locate expansion, solation, and other moving joints prior to installation. Adhesives: Ather flooring to substruct using the full spread method resulting in a completed installation without gaps, voids, raised edges, bubbles or any other surface imperfections.

TILE CARPETING

Samples: Submit two carpet files illustrating color and pattern design for each carpet color selected.

PART 2 PRODUCTS

MATERIALS

Tale Carpeting, Type [__]: Tufted, manufactured in one color dye lot.

Product: First One Up II Tile - BT443 manufactured by Mohawk.
Tile Size: 24 by 24" inch (__ by __mm), nominal.

Thickness: [.088] inch ([__ imm).

Pattern: Importance.

PART 3 EXECUTION

INSTALLATION Blend carpet from different cartons to ensure minimal variation in color match.

Cut carpet tile clean. Fit carpet tight to intersection with vertical surfaces without gaps.

Lay carpet tile in square pattern, with pile direction parallel to next unit, set parallel to building lines.

END OF SECTION

INTERIOR PAINTING

PART 1 GENERAL

Scope: Finish interior surfaces exposed to view, unless fully factory-finished and unless otherwise indicated.

Indicated.

Do Not Plant or Finds the Following Items:
Items Indicated in Temperature (Indicated Instituted and products having factoryItems Indicated Instituted Indicated Instituted In

rass. oncealed pipes, ducts, and conduits

SUBMITTALS

Samples: Submit three paper 'draw down' samples, 8-1/2 by 11 inches (216 by 279 mm) in size, illustrating range of colors available for each firishing product specified. Where sheen is specified, submit samples in only that sheen.

MANUFACTURERS

Provide paints and finishes from the same manufacturer to the greatest extent possible

PAINTS AND FINISHES - GENERAL

NI SAM PRINISES - GENERAL

Provise paris and Finisher, Ready mixed, unless intended to be a field-catalyzed paint.
Provise paris and finishes of a soft paste consistency, capable of being readily and uniformly depressed to a honogeneous coating, with good flow and brushing properties, and sufficiently provided to the provided provided to the provided provided to the provided to the provided to complete entire project work from a single production run.

Do not reduce, this, or duting paint or firshes or add materials unless such procedure is Charles and State Charles and Charl

PAINT SYSTEMS - INTERIOR

TT SYSTEMS - INTERIOR

PT1 Insterio Statzes to be Painted, Unless Otherwise Indicated: Including gypourn board,
PT1 Insterio Statzes to be Painted, Links, voice, fastes, uncoaled steel, shop primed steel,
Two top costs and one cost primer.
Top Cost Others.
Top Cost Others.
Top Cost Others.
Top Cost Others.
Statzes, Two Ingless level 4, use this sheen at all locations.
Satisful Pligods level 4, use this sheen for lines subject to frequent touching by
cocupants, including door frames and railings.
Primers. As recommended by typ commandature for specific substates.

PART 3 EXECUTION

PREPARATION

Clean surfaces thoroughly and correct defects prior to application. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

APPLICATION Apply products in accordance with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual".

Do not apply finishes to sutrafaces that are not dry. Allow applied coats to dry before next coat is

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RUSSELL DAVIDSON

ARCHITECTURE + DESIGN

RPD **SPECIFICATIONS**

CHECKED BY:

JOB:

RPD



A7.1

SHRMITTALS

NITIALS
Shop Drawings: Include plan views indicating locations of system components and proposed type, and routing of conduits and/or cables, Include elevations and details of proposed equipm arrangements. Include system interconnection schematic diagrams. Include requirements for interface with other systems.

Product Data: Provide manufacturer's standard catalog pages and data sheets for each system component. Include ratings, configurations, standard wiring diagrams, dimensions, finishes, service condition requirements, and installed features.

Evidence of qualifications for installer.

Evidence of qualifications for maintenance contractor (if different entity from installer).

QUALITY ASSURANCE

Comply with the following: NFPA.70. NFPA 101 (Life Safety Code). The requirements of the local authorities having jurisdiction. Applicable TM/ETA standards.

Appricable LIVALIA standards. Installer Qualifications: Company specializing in performing the work of this section with minimum three years documented experience with access control systems of similar size, type, and complexity and providing contract maintenance service as a regular part of their business; authorized manufacturer's representative.

WARRANTY

Provide minimum one year manufacturer warranty covering repair or replacement due to defective materials or workmanship.

PART 2 PRODUCTS

ACCESS CONTROL SYSTEM REQUIREMENTS

Less Colon (No. 6 of the Includements). Provide new access control system consisting of required equipment, conduit, boxes, wiring, connectors, hardware, supports, accessories, software, system programming, etc. as necessary for a complete operating system than provides the functional interin indicated.

Surge Protection:
Provide surge protection for readers and door strikes/focks.

Interface with Other Systems:

Provide products compatible with other systems requiring interface with access control system.

Provide products listed, classified, and labeled as suitable for the purpose intended.

Access Control Units and Readers: Listed and labeled as complying with UL 294.

ACCESS CONTROL UNITS AND SOFTWARE

Provide access control units and software compatible with readers to be connected.

Unless otherwise indicated, provide software and licenses required for fully operational system.

Access Control Unit:
Basis of Design: Avigition Access Control.

ACCESS CONTROL POINT PERIPHERALS

Provide devices compatible with control units and software.

Provide devices suitable for operation under the service conditions at the installed location.

Readers and Keypads:
General Requirements:
Provide readers compatible with credentials to be used.

Color: To be selected by Architect from manufacturer's available standard color Door Locking Devices (Electric Strikes and Magnetic Locks): Comply with Section 087100.

PART 3 EXECUTION

INSTALLATION

Install access control system in accordance with NECA 1 (general workmanship).

Install products in accordance with manufacturer's instructions. Identify system wiring and components in accordance with Section 260553.

FIELD QUALITY CONTROL

Prepare and start system in accordance with manufacturer's instru

Correct defective work, adjust for proper operation, and retest until entire system complies with Contract Documents.

CLOSCOT ACTIVITIES

Training: Train Owner's personnel on operation, adjustment, and maintenance of system.

END OF SECTION





CENTER NEVADA COUNTY YOUTH DISPATCH REMODEL 15434 CA-49 NEVADA CITY, CA 9 APN: 005-050-015

ID SUBMITTAL 7/31/20 AS NOTED RPD SCALE CHECKED BY: RPD JOB: **SPECIFICATIONS**

A7.2

CHAPTER 3

GREEN BUILDING SECTION 301 GENERAL

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

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

Y YES
NA YESPON PARTY

MOT APPLICABLE

RESPON PARTY

RESPONSIBLE PARTY 3. ARCHITECT, ENGINEER, OWNER, CONTRACTOR, IMPROTOR CTC.)

106.12 SHADE TREES [DSA-SS]. Shade Trees shall be planted to comply with Sections 5.108.12.1, 5.106.12.2, and 5.108.12.3. Percentages shown shall be measured at noon on the summer solution. Landscape imigation necessary to establish and marriant rate health shall comply with Section 5.004. 5.106.12.1 Surface parking areas. Shade tree plantings, minimum #10 container size or equal, shall be installed to provide shade over 50 percent of the parking area within 15 years. Exceptions: The surface parking area covered by solar photovoltals shade structures, or shade structures, with rooting materials that comply with Table AS-105.11.2.2 in Appendix AS, are not included in the total area cal 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.

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CHECKED BY: RPD CGBSC

A8.1

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 Note: Projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of th larger common plan of development or sale must comply with the post-construction requirements detailed in the applicable Metalor Polutant Classings eithermation System (MPCPS) General permit for Schemanter Classings Associated with Construction and Land Disturbance Adulties Issued by the State Water Resources Control Scan the Landronian Regular Millar Custal y Control Scan of the Landronian Regular Millar Custal y Control Scan the Landronian Regular Millar Custal y Control Scan for the Landronian Regular Millar Custal y Control Scan the Landronian Regular Millar Custal y Control Scan for the Landronian Regular Millar Custal y Control Scan the Landronian Regular Millar Custal y Control Scan for the Landronian Regular Millar Custal y Control Scan the Landronian Regular Millar Custal y Control Scan (Landronian Regular Millar M 301.1 SCOPE. Butchings shall be designed to Include the green butching measures specified as mendatory the application check his contained in this code. Voluntary green butching measures are also included in the part of the property of The NDES permits require postconstruction around (property interface) to make 1666 (1998) postconstruction around (property interface) to make 1666 (1998) to make the preconstruction nordifure project synchropic value to provide the property of the prope 301.3 NONRESIDENTIAL ADDITIONS AND ALTERATIONS. [BSC-CG] The provision of Individual sections of Chapter 5 apply to newly constructed buildings, building additions of 1,000 secure free or greater, and/or building alterations with a permit valuation of \$200,000 or active (for cosputation the authority of California Building Standards Commission). Code sections relevant to additions and atterations seletuid only apply to the portions of the building being added or ellered within the scope of the Refer to the current applicable permits on the State Water Resources Control Board website at www.waterboards.ca.gow/constructionstormwater. Consideration to the stormwater unoff manage should be given during the initial design process for appropriate integration into site development.

5,106.4 BICYCLE PARKING. For buildings within the authority of California Building Standards Commission as specified in 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 5.106.4.1.

5.106.4.1 Bicycle parking. [BSC-CG] Compty with Sections 5.106.4.1.1 and 5.106.4.1.2; or meet the applicable local ordinance, whichever is stricter.

5.106.4.1.1 Short-term bicycle parking. If the new project or an addition or alteration is anticipates to generate viditor traffic, provide permanently anchored bicycle racks within 200 feet of the viditor's entrance, recently whigh to passessely, for 50° of new viditor motorated vielbelg entiring passes begin added, with an inhitmum of one less-bike capacity rack.

Exception: "Additions or alterations within add or fine or less visitor vehicular paning 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 mirrimum 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 belocke parking for 5 percent of the tenant vehicular parking spaces being added, with a minimum of one blocke parking fadility.

5.106.4.1.4 For new shell buildings in phased projects provide secure bloycle parting for 5 percent of the anticipated tenant-occupant vehicular parting spaces with a minimum of one bloycle parting facility.

5.106.4.1.5 Acceptable bicycle parting 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 shall meet one of the following:

Covered, lockable enclosures with permanently anchored racks for bicycles;
 Lockable bicycle rooms with permanently anchored racks; or
 Lockable, permanently anchored bloyde 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 archored bibycle racks conveniently accessed with a minimum of four two-bite capacity racks per new building, accessed with a minimum of four two-bite capacity racks per new building. 5.106.4.2.5 Staff buycle parking, provide permanent, secure buycle parking conveniently accessed with a minimum of two staff buycle parking racks per new building. Acceptable buycle parking acceptable buycle parking acceptable buycle parking acceptable buycle parking acceptable parking one was deal minimum of minimum of the parking acceptable building acceptable buycle parking acceptable building acceptable building acceptable building acceptable building acceptable buycle parking acceptable building acceptable build

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, free-efficient and carpooliven pod vehicles as follows:

TABLE 5.106.5.2 - PARKING						
TOTAL NUMBER OF PARKING SPACES	NUMBER OF REQUIRED SPACES					
0-9	0					
10-25	1					
25-50	3					
51-75	6					
76-100	8					
101-150	11					
151-200	16					

5.106.5.2.1 - Parking stall marking. Paint, 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 YVAN POOL / EV

Note: Vehicles bearing Clean Air Vehicle stickers from expired HOV lane programs may be considered elimble 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 future Installation of electric vehicle supply equipment (EVSE). When EVSE(s) juster installated, it shall be in accordance with the California Building Code, the California Building Code, the California Europe Code and as follows:

5.106.5.3.1 Single charging space requirements, [N] When only a single charging space is required per Table 5.105.5.3.3. a raceway is required to be installed at the time of construction and shall be installed in accordance with the California Educación Code. Construction plans and specifications shall include, but are not limited to, the following:

A fisted raceway capable of accommodating a 2082-vull-you operating unany or under it. The raceway shall not be less than trade size 1.
5. 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. terminate in close prostmity to the proposed location of the changing equipment and list suitable cabinet, box, endourse or equivalent. The service panel or subpanel shall have sufficient capacity to accommodate a minimu 40-senters dedicated branch discal for the future installation of the EVSE.

5,165,5,3,2 Multiple charging space requirements, [N] When multiple charging spaces are required per Table 5,105,5,3,3 raceway(s) laters 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:

The type and beaution of the DNSE.

The type and beaution of the DNSE confide popular or unbiasedly) sen'ing the rine, and stall imministic in does prountly to the proposed beaution of the changing explainent and into fined beaution calleration, boxers, and changing in explainent and into fined subsidiary calleration, boxers, and changing explainent and into fined subsidiary calleration, and the confidence of the decidal system, to fundamental and a second subsidiaries in decidance of the decidal system, to fundamental and any or-side decidantion instructions and the subsidiaries in the subsidiaries of the type of the subsidiaries of the

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.

Where there is insufficient electrical apply.
 Where there is endufficient electrical apply.
 Where there is endufficient outside to the local enforcing agency substantiating that additional local unity hydract

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 total				

Luminaires that qualify as exceptions in Section 140.7 of the California Energy Code.

TABLE 5.106.8 INI MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT MAXIMUM ALLOWABLE BACKLIGHT RATING N/A No Limit No Limit No Limit No Limit B2 N/A В3 B4 B4

> G1 G1

> G0 G1

> > G0

G1

G1

IONS. THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERBFICATION WITH THE FULL CODI

minaire greater than 2 ounting heights (MH) from operty line N/A 80 BO B1 B2 For area lighting -N/A U1 U2 U3 UR uminaire greater than 2 MH rom property line G2 G3

uminaire front hemispher -2 MH from property ine N/A GO N/A G0

Luminaire back hemisphere is less than 0.5 MH from propert ine G0 G0

2. For properly lives that abut public well-ways, bleways, plazas and panking lots, the property fine may be considered to be 5 feet beyond the abusing properly line for propose of determining complanes with list section. For properly lines that abus public tradeways and public transit contribors, the property line may be considered to be the centified or of the public randways or public transit contribors for the purpose of determining complanes with this section.

 If the nearest property line is less than or equal to two mounting heights from the back hemisphere of the juminaire 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 me

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 wat include, but are not finited to, the following:

Sweles.
 Water collection and disposal systems.
 Trench drains.
 Water retention gardens.
 Water retention gardens.
 Water retention gardens.
 Other water measures which keep surface water away from buildings and aid in groundwater.

Additions and alterations not altering the drainage path.

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) drout directory shall identify the reserved overcurrent protective device space(s) for future EV charging as "EV CAPABLE". The ratermination location shall be permanently and visibly marked as "EV CAPABLE".

5.106.8 LIGHT POLLUTION REDUCTION, [N].I Outdoor lighting systems shall be designed and installed to comply

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 2. Beologht (6) Rintogs as defined in ESTA1-5-11 (shown in Table A-1 in Chapter 8);
 Uplight and Claire ratings as defined in California Energy Code (shown in Tables 130.2-A and 130.2-B in Chapter 8).

Allowable BUS ratings not exceeding those shown in Table 5.106.8, [N] or Comply with a local ordinance

Emergency Ighting.

Building facade meeting the requirements in Table 140.7-8 of the California Energy Code, Parl 6.

Custom Ighting features as allowed by the local enforcing agency, as permitted by Section 101.8

Alternate materials, designs and methods of construction.

requirements for parking facilities and walloways.

Refer to Chapter 8 (Compliance Forms, Worksheets and Reference Material) for IES TM-18-11 Table
A-1, California Energy Code Tables 130.2-A and 130.2-B.

Refer to the California Eulighing Code for requirements for additions and alperations.

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.

DIVISION 5.2 ENERGY EFFICIENCY

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

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.

DIVISION 5.3 WATER EFFICIENCY AND CONSERVATION SECTION 5.301 GENERAL

8 361 4 Seaso. The provisions of this chapter shall establish the means of conserving water use indoors, outdoors

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 are two major influences or

FOOTPRINT AREA [DSA-SS]. The total area of the furthest exterior wall of the structure projected to natural grade not including exterior areas such as stairs, covered walkways, perios and decks.

METERING FAUCET. A self-closing faucet that dispenses a specific volume of water for each actuation cycle. The volume or cycle cluration can be fixed or adjustable.

GRATWATER, Pursuant to Health and Safety Code Section 17922-12, "graywater" means unheated wastewater has not been contaminated by any tolled discharge, his not been affected by feledicus, contaminated, or shreldle body waster, and does not present intere from contamination by unlesshifty consessing, manufacturing, or operating waster. "Craywater" findules, but is not limited to westereder from bathibos, showers, bufforcom contamination of the co

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWIELD). The California ordinance regulating landscap design, installation and maintenance practices that will ensure commercial, multilarity and other developer installa-landscapes greater than 2500 square feet meet on infigation water budget developed based on juriscaped area an characteristic production.

WATER BUDGET. Is the estimated total landscape irrigation water use which shall not exceed the maximum applie water allowance calculated in accordance with the Department of Water Resources Model Efficient Landscape Ordinance (MMSE D).

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

For each individual lasses, would or other teach took within the building special of someone more than 100 gains (500 Ledge), principle, put of feelings for special upon the first services and the services restriction of incident of certain of other services. The services are services and one of the services restriction of the services are found on the services are found to services and offices, become the services for services are found to services and the services are found to service the services are services as the services are services than 100 gain; (20 Ledge) and (20 Ledge) are services are services than 100 gain; (20 Ledge) and (20 Ledge) are services are services are services are services and the services are services are services are services are serviced as the services are services are services are serviced as the services are services are serviced as the services are services are serviced as the services are serviced

303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing flutures (water closets and insis) and fittings (faucets and showerheads) shall compty 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 tolets.

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

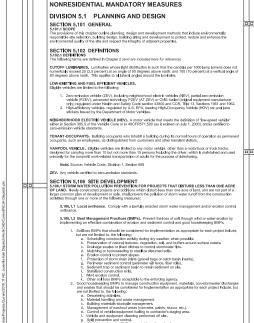
5,903.3.2 Urinals \$303.3.2 Will-mounted Urinals. The effective flush volume of wall-mounted urinals shall not exceed a 10% authors are flush.

5.303.3.2.2 Floor-mounted Urinals. The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush.

5,303,3.3 Showerheads, [BSC-CG] 5,303,3.1 Single showerhead, Showerheads shall have a maximum tow rate of not more than 1.8 gallors per minute at 80 ps.; Showerheads shall be certified to the performance criteria of the U.S. EPA Water-Genes Specification for Showerheads.

5.393.3.3.2 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 it 8, glattops per mitual as 80 pat, or the shower shall be designed to allow only one shower outlet to be in operation at a time. Note: A hance-blat shower shall be considered a showerhead.

FIELD SET



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.

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.

303,1,1 Initial Tenant Improvements. The provisions of this code shall apply only to the initial benant Improvements to a project. Subsequent benant Improvements shall comply with the scoping provisions in the scoping provision in t

303.1 PHASED PROJECTS. For shell buildings and others constructed for future tenant impro only those code measures relevant to the building components and systems considered to be new construction (or newly constructed) shall apply.

301.4 PUBLIC SCHOOLS AND COMMUNITY COLLEGES. (see GBSC) 301.5 HEALTH FACILITIES. (see GBSC)

SECTION 302 MIXED OCCUPANCY BUILDINGS

ABBREVIATION DEFINITIONS:

CHAPTER 5

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

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

5.410.4.4 Reporting. After completion of testing, adjusting and balancing, provide a final report of testing signed by the Individual responsible for performing these services. 5.410.4.5 Operation and maintenance (0.8 M) manual, Provide the buljding owner or representative with detailed operating and maintenance instructions and copies of guaranties/warranties for each system. O.8 M instructions shall be consistent with OSHA requirements in CCR, Title 8, Section 5142, and other related regulators.

SECTION 5.501 GENERAL
5.501.1 SCOPE. The provisions of this chapter shall outline means of reducing the quantity of air contaminants that
are ocloruse, Intallians, and/or harmful to the comfort and well-being of a building's Installiers, occupants and neighbor

SECTION 5.502 DEFINITIONS
6.602.1 DEFINITIONS. The following terms are defined in Chapter 2 (and are included here for reference)

ARTERIAL HIGHWAY, A general term denoting a highway primarily for through traffic usually on a continuous A-WEIGHTED SOUND LEVEL (dBA). The sound pressure level in decibels as measured on a sound level meter using the internationally standardized A-weighting filter or as computed from sound spectral data to which A-weightin

COMMUNITY NOISE EQUIVALENT LEVEL (CNEL). A metric similar to the day-night average sound level (Ltdn), average that a 5 right average sound is velocity to the annihilation continuous sound average level for eventon incres (Znelland).

density fiberboard. "Composite wood products" does not include hardboard, structural phywood, structural panels, structural composite lumber, all california board, glubal animated timber, prefet prefet passage of inger-jointed lumber, all sespedited in California Code of Regulations (COR), Title 17, 1961:09.3120 (i.g.).

DAY-MIGHT AVERAGE SOUND LEVEL (Ldn). The A-weighted equivalent continuous sound exposure level for a 24-hour period with a 10 dB adjustment added to sound levels occurring during nightlime hours (10p.m. to 7 a.m.).

DECIBEL (db). A measure on a logarithmic scale of the magnitude of a particular quantity (such as sound pressure sound power, sound literally) with respect to a reference quantity.

ELECTRIC VEHICLE (EV). An automotive-type weeks for occode use, such as passenger automobiles, buses, buses, was neighborhood selbst weeklers electric micropolite, and the large plorally powered by a electric micropolite, and the large plorally power by a electric micropolite ploral power by the large ploral power by the large

ELECTRIC VEHICLE CHARGING STATION(S) (EVCSI). One or more spaces intended for charging electric vehicle ELECTION VEHICLE SUPPLY EQUIPMENT (EVXE). The conductors, Including the ungrounded generated, and equipment grounds products and the electric vehicle correctors, statchment globs, and all other things, cereions shown or utilities apparatus. In this last expedit cash for the pumpose of transferring menty between the prentises which and the electric vehicles.

ENERGY EQUIVALENT (NOISE) LEVEL (Leg). The level of a steady noise which would have the same energy as the fluctuating noise level integrated over the time of period of interest.

EXPRESSWAY. An arterial highway for through traffic which may have partial control of access, but which may or mand be divided on have grade separations at intersections.

FREEWAY, A divided arterial highway with full control of access and with grade separations at intersections.

GLOBAL WARMING POTENTIAL (GWP). The radiative forcing impact of one mass-based unit of a given gree nax relative to an equivalent unit of carbon cloxide over a given period of time. Carbon dioxide is the reference

GLOBAL WARRING POTENTIAL VALUE (GWP VALUE). A 100-year GVP value published by the Interpowermental Panel on Climate Change (IPCC) to either its Second Assessment Report (SAR) (IPCC, 1995); or Its Fourth Assessment A3 Report (AR) (IPCC, 2007). The ASR GVMP values are found in column "SAR (100-yr)" of Table 2.14.; the AR4 GWP values are found in column "100 yr" of Table 2.14.

HIGH-QWP REFRIGERANT. A compound used as a heat transfer field or gas that is: (a) a chlorofluorocarbon, a histochlorofluorocarbon, a hydrofluorocarbon, a perfuorocarbon, 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 of Focked Regulations, Pan 52, sec. 62.2 (as amended March 10, 2008).

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 rine diameter.

MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a compound to the "Base REactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundrelfs of a oran to 0" or ROC).

PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted MIR for all ingredients in a product subject to this article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of

REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to ozone formation in the troposphere.

SUPERMARKET. For the purposes of Section 5.508.2, a supermarket is any retail food facility with 8,000 square fee or more conditioned area, and that utilizes either refrigerated display cases, or walk in cookers or freezers connected to remote compressor units or condensing urits. VOC. A volstille organic compound broadly defined as a chemical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain oxygen, nitrogen and other elements. Sec CR Tills 17.5 section 9509(8)

SECTION 5.03 FIREPLACES

5.503.1 RIBEPLACES

5.503.1 RIBEPLACES

5.503.1 RIBEPLACES

6.503.1 RIBEPLACES

6

MERV. Filter minimum efficiency reporting value, based on ASHRAE 52.2-1999.

SCHRADER ACCESS VALVES. Access fittings with a valve core installed

PSIG. Pounds per square Inch, guage.

DIVISION 5.5 ENVIRONMENTAL QUALITY

Note: See CCR. Title 17. Section 93120.1.

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OUNTY EVADA CO ISPATCH F 4 CA-49 ADA CITY, CA 9 005-050-015

SCALE AS NOTED CHECKED BY: RPD

CGBSC

A8.2

SECTION 5.407 WATER RESISTANCE AND MOISTURE MANAGEMENT 5.407.1 WEATHER PROTECTION, Provide a weather resistant exterior well and foundation envelope California Building Code Section 1402.2 (Weather Protection), manufacturer's installation instructions o 5.407.2 MOISTURE CONTROL, Employ moisture control measures by the following methods 5,303,3.4.2 Kitchen faucets, Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute at 60 psl. Kitchen faucets may temporartly increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi. 5.497.2.1 Sprinklers. Design and maintain landscape impation systems to prevent spray on structures 5.407.2.2 Entries and openings. Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings as follows: 5.303.3.4.3 Wash fountains. Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute/20 (rtm space (inches) at 60 pd). Owner's or Owner representative's project requirements. Basis of design. Commissioning measures shown in the construction documents. Commissioning plan. Functional performance testing. 5,303,3,4,4 Metering faucets, Metering faucets shall not deliver more than 0.20 gallons per cycle. An installed awning at least 4 feet in depth.
The door is protected by a roof overhang at least 4 feet in depth.
The door is recessed at least 4 feet.
Other methods which provide equivalent protection. 5,303,3.4.5 Metering faucets for wash fountains. Metering faucets for wash fountains shall have a maximum flow rate of not more than 0.20 gallons per minute/20 [rlm space (Inches) at 60 psi]. Note: Where complying faucets are unavailable, aerators or other means may be used to achieve reduction. 5,407,2,2,2 Flashing, Install flashings Integrated with a drainage plane. SECTION 5.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND 5.303.4.1 Food Waste Disposers. Disposers shall either modulate the use of water to no more than 1 gpm when the disposer is not in use (not actively groting (soci wastern-bad) or shall automatically shut off after no more than 10 miles of inactive). Disposers shall use no more than 3 gpm of water.
Note: This code section does not affect local jurisdiction authority to prohibit or require disposer installation. SECTION 5-May 0-Associated RECYCLING
Seeps 1: CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 65% of the non-balanderics construction and demultion waste in accordance with Section 5-486.1.1, 5-486.1.2 or 5-406.1.2 or meet a local construction and demultion waste management ordinance, will otherwise in more stringers. 5.303.5 AREAS OF ADDITION OR ALTERATION. For those occupancies within the authority of the California Building Standards Commission as specified in Section 103, the provisions of Section 5.303.3 and 5.303.4 shall apply Learning the construction and demolition water motivation to be deverted from disposal by efficient to be constructed and demolitical to the construction of the const 5.303.6 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures and fittings shall be installed to accordance with the Catifornia Plumbing Code, and shall meet the applicable standards referenced in Table 1701.1 SECTION 5.304 OUTDOOR WATER USE
Sold-1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS, Nonresidential developments shall comply
with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Wate
Efficient Landscape Ordinance (WRVELO), whithever is more stringent. 5.408.1.2 Waste Management Company. Utilize a waste management company that can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill. Note: The owner or contractor shall make the determination if the construction and demolition waste material will be diverted by a waste management company. nouse;

1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code of Regulations
Tile 23, Chapter 27, DMidon 2.

MWELO and supporting documents, including a water budget calculator, are available at: https://www.water.ca.gov/. Exceptions to Sections 5.498.1.1 and 5.498.1.2: Excavated soil and land-clearing debris.
 Alternate waste reduction methods developed. 5.304.6 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS, For pubic schools and community colleges landscape projects as described in Sections 5.304.6.1, and 6.304.6.2 shall compty with the California Department of Water Resources Morel Water Ethorical Indexapes Ordinance (WRICEL) commanding with Section 480 of Chapter 2.7, Deviden 7.118 2.3, California Code of Regulations, except that the evaporations/patient adjustment factor (ETAF) shall be 0.65 with an additional water advancance for special plantages areas (SLA) or 2016. Euconomistic sort and came-descring details.
 Alternate waste reduction methods developed by working with local agencies it diversion or recycle statilities capable of compliance with this item do not exist.
 Demoltton waste meeting local ordinance or calculated in consideration of local recycling facilities and market. Exception: Any project with an aggregate landscape area of 2,500 square feet or less may comply with the prescriptive measures contained in Appendix D of the MM/ELO. 5.304.6.1 Newly constructed landscapes. New construction projects with an aggregate landscape area equal to or greater than 500 square feet. 5.410.2.3 Commissioning plan. [N] Prior to permit issuance a commissioning plan shall be completed to document how the project will be commissioned. The commissioning plan shall include the following: 5,304.6.2 Rehabilitated landscapes. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 1,200 square feet. General project information.

Commissioning project information.

Systems to be commissioned. Plans to test systems and components shall include:

A. An experiment of the original design intext.

A. In experiment of the original design intext.

C. Including the case of the commission of the original design intext.

C. Commission come which the test call but performed.

C. Manaurable oritinal to caceptable performance. Sample forms found in "A Guide to the California Green Building Standards Code [Nonresidential]" located at www.bsc.ca.gov/Home/CALGreen.aspx may be used to assist in documenting compliance boated at www.bsc.ca.gov/home/CALGreen.aspx may be used to assist in documenting compliano with the waste management plan.

Mixed construction and demain and being processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle). DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE 5.408.2 UNIVERSAL WASTE. [A] Additions and alteriotors to a building or tenant space that meet the scoping provisions in Section 30.1.3 for nonreaderatial additions and alterations, shall require verification that Universal Waste insens such as glucosceral largua and builds and microury containing harmostate as well as other Calcinar porblated Universal Waste materials are disposed of properly and are cheeted from janditils. A list of prohibited Universal Waste materials are disposed of properly and are cheeted from janditils. A list of prohibited Universal Waste materials are also large in the control of coursers. SECTION 5.401 GENERAL 5.401.1 SCOPE. The provisions of this celing beam Information.
onling process activities, schedules and responsibilities. Plans for the completion of plans shall be included. SCOPE. The I OCINETIAL OF this chapter shall outline means of achieving material conservation and resoun SCOPE. The provisions of this chapter shall outline means of achieving material conservation and resoun by through projection of buildings from existence microtraction waste diversion, employment of uses to reduce pollution through encycling of materials, and building commissioning or testing and adjusting. Note: Refer to the Universal Waste Rule Ink at: http://www.dtscr.ca.gov/LawsRegsPolicies/Regs/upload/OEAR-A_REGS_UWR_FinalText.pdf SECTION 5.402 DEFINITIONS 5.402.1 DEFINITIONS. The following terms are defined in Chapter 2 (and are included here for reference) .408.3 EXCAVATED SOIL AND LAND CLEARING DEBRIS. 100 percent of trees, stumps, rocks and associate egetation and soils resulting primarity from land clearing shall be reused or recycled. For a phased project, such asterial may be stockplied on site until the storage as its developed. ADJUST. To regulate fluid flow rate and air patterns at the terminal equipment, such as to reduce fan speed or adjust Exception: Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation 5.410.2.5.1 Systems manual. [N] Documentation of the operational aspects of the building shall be completed within the systems manual and delivered to the building owner or representative. The systems manual shall buildus the blooking.
 5.8 is information, including facility description, history and current requirements. If contamination by disease or pest infestation is suspected, contact the County Agricultural Commissioner and follow its direction for recycling or disposal of the material.
 For a map of know pest and/or clease quarantine zones, consult with the California Department of Food and Agriculture. (www.offs.co.go/) Size contact information county description, masky an obtain requirements.
 Size contact information and maintenance, including general size operating procedures, basic troubleshooting, recommended maintenance requirements, site events log. ORGANIC WASTE. Food waste, green waste, landscape and pruning wate, nonhazardous wood waste, and food skilled paper waste that is mixed in with food waste. TEST. A properture to determine quantitative performance of a system or equipment SECTION 5.410 BUILDING MAINTENANCE AND OPERATIONS Major systems.
 Stite equipment Inventory and maintenance notes.
 A copy of verifications required by the enforcing agency or this code.
 Other renounces and documentation, if applicable. Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources Code 42649.82 (a)(2)(A) at sec. shall also be exempt from the organic waste portion of this section 5.410.1.1 Additions. All additions conducted within a 12-month period under single or multiple permits, resulting in an increase of 30% or more in floor area, shall provide recycling areas on site. Exception: Additions within a tenant space resulting in less than a 30% increase in the tenant space floor area. 410.2.6 Commissioning report, [N] A report of commissioning process activities undertaken through the setting and construction phases of the building project shall be completed and provided to the owner or

IAGO 2. COUNTSSS MORE, (I) leve a statistice is 1,000 experie feet and over 16 more beliefer, 11.000 square feet from the statistic or the sta oter For energy-related systems under the scope (Section 100) of the California Energy Code, including hearing, entilistics, air conditioning (HVAC) systems and controls, indoor lighting systems and controls, as well as water eating systems and controls, refer to California Energy Code Section 120,8 for commissioning requirements Unconditioned warehouses of any size.
 Areas less than 10,000 square feet used for offices or other conditioned accessory spaces within unconcitioned warehouses.

3. Tenant improvements less than 10,000 square feet as described in Section 303.1.1.

4. Open parking garages of any size, or open parking garage areas, of any size, within a structure Note: For the purposes of this section, unconditioned shall mean a building, area, or room which does not provide heating and or air conditioning. 1. IAS AC 476 is an accreditation criteria for organizations providing training and/or certification of commissioning personnel. AC 476 is available to the Authority Noving Judisdiction as a reference for qualifications of commissioning personnel. AC 476 dees not certify Individuals to conduct functional performance tests or to adjust and balance systems. Functional performance testing for heating, ventiliation, air conditioning systems and lighting controls
must be performed in controllance with the California Fragory Code. Substant Owner's or Owner Representative in Region Becamerant (ORR), (N). The expectative or confirmments of the indices perspective to largue shall no occurrent obtain the destyr phase of the project begin. This occurrentation shall be look the Sighaving.

1. Enforcement of an escalability of the Sighaving.

3. Enforcement of the Sighaving o operation.
5. Equipment and systems expectations.
6. Building occupant and operation and maintenance (O&M) personnel expectations. 5,410.2.2 Basis of Design (BOD), [N] A written explanation of how the design of the building systems meets the OPR shall be completed at the design phase of the building project. The Basis of Design document shall cover the following systems:

S.410.2.4 Functional performance testing, [N] Functional performance tests shall demonstrate the correct installation and operation of each component, system and system-to-system interface in accordance with the approved plans and specifications. Functional performance testing reports that all contain information addressions estimate produce the building components tested, the testing methods utilized, and include any readings and adjustment and accordance information and accordance information.

5.410.2.5 Documentation and training. [N] A Systems Manual and Systems Operations Training are require including Occupational Safety and Health Act (OSHA) requirements in California Code of Regulations (CCR), Tille 8, Section 5142, and other related regulations.

5.410.4 TESTING AND ADJUSTING. New buildings less than 10,000 square feet. Testing and adjusting of

5.410.4.2 (Reserved)

Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting system and controls, as well as water heating systems and controls, refer to California Energy Code Section 1203 for commissioning requirements and Sections 1203. 1208, 1304, and 140,901s of carbinate testing requirements of section 1203. 1208, 1304, and 140,901s of carbinate testing requirements of section.

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:

5.410.4.3 Procedures. Perform testing and adjusting procedures in accordance with manufacturer's specifications and applicable standards on each system.

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 Applicary and Balanchig Breans. National Standards: the National Environmental Balancing Disease Procedural Standards: Associated Air Balance Council National Standards or as apported by the efforcing agency.

SECTION 5, 564. POLLUTANT CONTROL.

SEAL TIMEOSOFT WITH ATTAIN TO SEE THE VIEW SHE whill sally be used during construction if necessary to condition the building or man of addition or desertion within the regarded engineering range for measured and engineering recording to condition the building or man of addition or desertion within the regarded engineering range for measured and engineering recording controlled user reference and filters with a 30% based on AMPAGAS 50.1 1905 Registers all these timeoscalety play for concupancy, or if the huisting is concepted out by determine, with the condition of construction.

5,504.3 Covering of duct openings and protection of mechanical equipment during construction. At the time of rough instalation and during storage on the construction site until first starts, or the healths, coding and verification equipment, all during other protections are started and other related at distribution compounds consequently covered with traps, placed is sheetimetal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may enter the system.

FIELD SET

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

TABLE 5.504.4.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL

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

100

Y YES
NOT APPLICABLE
RESPONS PARTY RESPONDEDLE PARTY OF ARCHITECT, ENGINEE

5,504.4 FINISH MATERIAL POLLUTANT CONTROL, Finish materials shall comply with Sections 5.504.4.1 through

\$26.4.1 Attentions, selection and crafts, American, socialists, and crafts under on the project thall meet mental anticomers of the Oblivers platedours. In the Company of the Company of

Aerosol adherives, and smaller unit sizes of adherives, and seelant or cell-tring compounds in
units of product, less packaging, which do not veigh more than one pound and do not consist off more
than 16 fails ounces) shall comply with attested Vo Os calandars and other registerents, including
prohibitizes on use of certain toxic compounds, of California Code of Regulations, Title 17, commencia
with Section 1940b.

Less Water and Less Exempt Compounds in Grams	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			
STRUCTURAL WOOD MEMBER ADHESIVE	140			
TOP & TRIM ADHESIVE	250			
SUBSTRATE SPECIFIC APPLICATIONS				
METAL TO METAL	30			
PLASTIC FOAMS	50			
POROUS MATERIAL (EXCEPT WOOD)	50			
WOOD	30			
FIRERGI ASS	80			

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

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				

NOTE: FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THESE TABLES, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.

5,554.4.3 Pasts and coatings, inclined unal pasts and coatings shall county and VOC limits in falls of the ARR Arthrestical Coatings Suggested Coating Suggested for the Manages, as control Manages, as control in fall 6,504.4.1, while seem on stringers localities accept, The VOC coatent finish for coatings shall do not meet the coefficients for the coatings and coatings categories designed fined in Table 5,504.4.2 and the contemporary passisting the coatings and a Fall. Portial Coatings and Coat

5.404.4.3.1 Aerosol Paints and coatings. Aerosol paints and coatings shall meet the PYMIR Limits is ROC in Section 94(52(a)(3)) and other requirements, including prohibitions on use of certain tools of Rock (1) and (1) are section of the control of the control of the control of Rock (1) and (1) are section of the control of Rock (1) and (1) are section of the control of Rock (1) and (1) are section of the control of the

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 COATINGS:	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

ZINC-RICH PRIMERS CONTROL OF THE PROPERTY OF THE 2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.

OPAQUE

STONE CONSOLIDANTS

WOOD COATINGS

SWIMMING POOL COATINGS TRAFFIC MARKING COATINGS TUB & TILE REFINISH COATINGS

SPECIALTY PRIMERS SEALERS & UNDERCOATERS

5.504.4.3.2 Verification. Verification of complance with this section shall be provided at the request of the enforcing agency. Documentation may trick use, but is not limited to, the following: 2. Flad verification of an orbital product containers.

5.504.4.4 Carpet Systems, AI carpet installed in the building interior shall meet at least one of the testing and

Competent Rigg Institute's Green Label Plus Program.

C. Corpit and Rigg Institute's Green Label Plus Program.

C. Corpit and Rigg Institute's Committee of the Search Sea

5.504.4.4.1 Carpet cushton. 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 achesive shall meet the requirements of Table 5.504.4.1.

Product cedifications and specifications.
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TABLE 5 504 4 5 - FORMAL DEHYDE LIMITS: MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLIOI PRODUCT CURRENT LIMIT HARDWOOD PLYWOOD COMPOSITE CORE 0.05 PARTICLE BOARD MEDIUM DENSITY FIBERBOARD

2. THIN MEDITIN DENSITY EIRERROARD HAS A MAXIMUM THICKNESS OF 516 INCHES IS MAD

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:

Contribut under the Residute 18 par Covering Insidute in Residute (Contributed Contributed Contributed

5.504.5.3 Filters. In mechanically ventilated buildings, provide regularly occupied areas of the building with all filtration media for outside and return air that provides at least a Minimum Efficiency Reporting Value (MERV). I.3. MERV 13 filters shall be hatalled prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.

THIN MEDIUM DENSITY FIBERBOARD

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

5.60.1 ENVIRONMENTAL TOBACCO SMOKE (ETS) CONTROL. Where outdoor areas are provided for smosting, profiled smosting, profiled smosting, and the 25 feet of building entries, outdoor all trakes and operated and/owe are eithin the building owney, of the country, days and country, of shared comments of the country, days and country, of shared comments of the country, of shared comments of the country of shared comments of the University of California, whichever are more stringent. When ordinances, regulations or publish are not in place, post signage to from building occupants of the profit-bitions.

SECTION 5.505 INDOOR MOISTURE CONTROL

SECTION 5.506 INDOOR AIR QUALITY
5.506,1 OUTSIDE AR DELIVERY. For mechanically or naturally werdfaled spaces in bulkings, meet the minimum requirements of Section 152.1 (Requirements For Ventilation) of the California Energy Code, or the applicable local code, whichever is more stringent, and Diklation 1, Chapter 4 of CCR, Title 8.

SECTION 5.507 ENVIRONMENTAL COMFORT 5.507.4 ACOUSTICAL CONTROL. Employ building assembles ar

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 parising structures and utility buildings.

5.507.4.1 Exterior noise transmission, prescriptive method, Well and not-ceiting assemblies exposed to the ecise source making up the building or addition envelope or altered envelopes that meet a composite STC rating of at least 50 or a composite OTIC rating of no less than 40, with exterior windows of a minimum STC of 40 or OTIC of 30 in the following loadings:

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

Lon or CNEL for military airports shall be determined by the facility Air Installation Compatible
Land Use Zone (AICUZ) plan.
 Le 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.

Within the 65 CNEL or L^o noise contour of a freeway or expressway, ratiroad, industrial source or fixed-guideway 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 55.08 $\rm k_{\rm sg} - 1$ -th during any hour of operation shall have building, addition or absention exterior wall and not-calling assentibles exposed to the noise source meeting a composite STC rating of at least 45 (or OTC 35), with exterior windows of a minimum STC of 40 (or OTC 30).

5.597.4.2.1 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.

5.507.4.3 Interior sound transmission. Wall and floor-celling assemblies separating tenant spaces and tenan spaces and public places shall have an STC of at least 40.

SECTION 5.508 OUTDOOR AIR QUALITY

6.608.1 Ozone depletion and greenhouse gas reductions. Installations of HVAC, refrigeration and fire su

5,508,1.1 Chlorofluorocarbons (CFCs), Install HVAC, refrigeration and the suppression equipment that do n

5.504, 2 Supermarket refrigerant leak reduction. New commercial enlargeation systems shall comply with the provisions of this section when installed in retail lood stoves 6.000 square best or more conclined seen, and that conclined in the control of the control

5.506.2.1 Refrigerant pipting. Pipring compliant with the California Mechanical Code shall be installed to be accessible for leak protection and repairs. Pipring runs using threaded pipe, cooper futing with an outside chamater (OD) less than 1/4 Inch, thared tubing connections and short radius aboves shall not be used in refrigerant systems except as noted below.

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

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 mls.

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 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 outlet of the vessel and the inlet of the pressure relief valve.

5.508.2.2.1.1 Pressure detection. A pressure gauge, pressure transducer or other device shall be installed in the space between the rupture disc and the relief valve triet to indicate a disc nubture or discharge of the relief valve.

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 plastic.

5.508.2.2.2.2.1 Chain tethers. Chain tethers to fit ovr the stem are required for velves designed to have seal caps.

5,508,2,3,1 Coll coating, Consideration shall be given to the heat transfer efficiency of coll 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 the indicates the level of refrigerant in the receiver.

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

5.508.2.5.2 Leaks. Check the system for leaks, repair any leaks, and retest for pressure using the same

5.508.2.5.3 Allowable pressure change. The system shall stand, unaftered, for 24 hours with no more than a +1- one pound pressure change from 300 pstg. measured with the same gauge.

5,598.2.6 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

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 criti of 100 microns over a 24-hour period.

INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

stallation of HMAC systems including ducts and equipment by a nationally or regionally recognized training or withilation program. Uncertified persons may perform HMAC Installations when under the direct supervision and sponsibility of a person trained and certified to Install HMAC systems or contractor Ibensed to Install HMAC systems. As the contractor Ibensed to Install HMAC systems with the contractor Ibensed to Install HMAC systems or contractor Ibensed to Install HMAC systems.

- State certified apprentiseably programs.
 Public utility training programs.
 Training programs sonserved by trade, labor or statewide energy consulting or verification organizations.
 Training programs approached by trade, labor or statewide energy consulting or verification organizations.
 Other programs acceptable to the enforcing approxy.

702.2 SPECIAL INSPECTION (HCD). When required by the enforcing agency,
recovered to the second secon

- Certification by a national or regional green building program or standard publisher.
 Certification by a statewise energy consulting or verification organization, such as HERS raters, building performance constructors, and home energy auditors.
 Successful Completion of a third party apprentible training program in the appropriate trade.
 Other programs acceptable to the endoring against.

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

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

703 VERIFICATIONS

703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limited construction documents, plans, specifications, buller or installer certification, inspection reports, or other methods acceptable to the affording agency with demonstrates 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 approache checks?

RUSSELL DAVIDSON



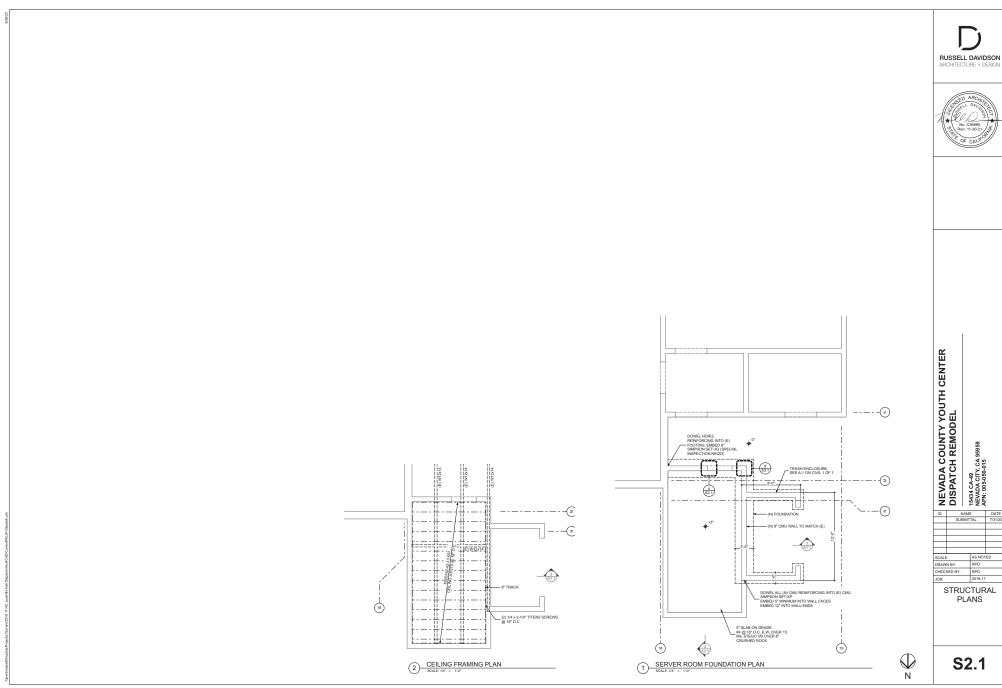
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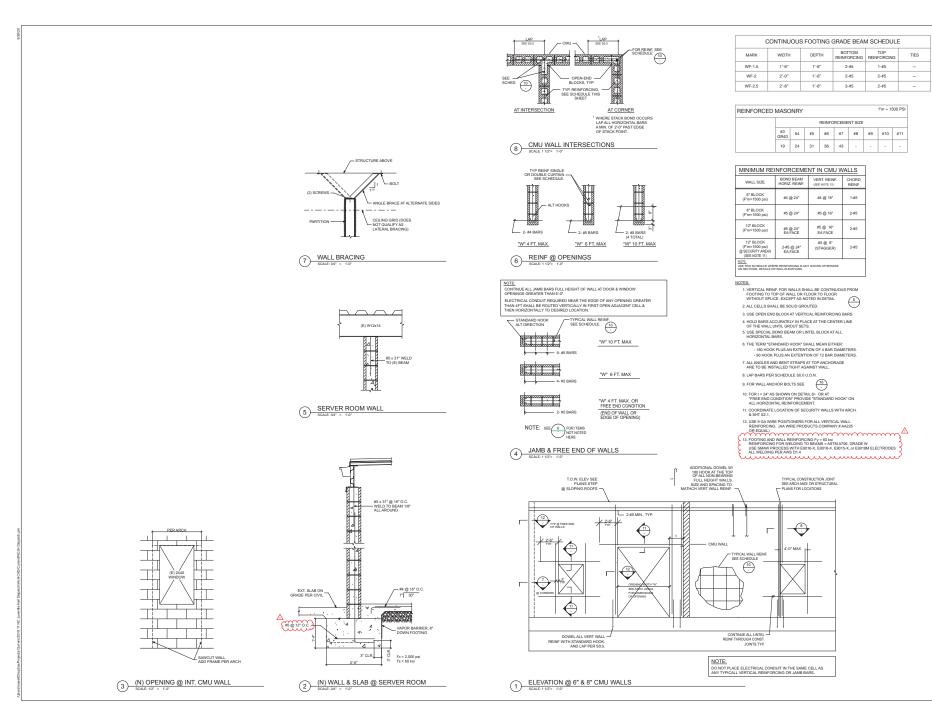








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CENTER NEVADA COUNTY YOUTH DISPATCH REMODEL

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ENGINEERING DETAILS AND SECTIONS

S3.1



RECEPTION, STORAGE & HALLWAY WILL BE PROVIDED BY NATURAL VENTILATION.
 ELECTRICAL FOR INDOOR UNIT WILL BE PROVIDED BY OUTDOOR UNIT HP.

HYAC NOTES

SCOPE OF WORK

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NECESSARY TO PROVIDE THE COMPLETE SYSTEM.

JI TIS THE INSTITUTION STREPPING REPORTED SHIPLING TO ASSURE ALL TECHNICAL STREPS SANCTION PROVINCE, SAFELY, AND ALL UDGE, TO CONFORM TO THE ACCEPTION SATURACION OF THE TRADE. THE PANIBER IS TO SE NOTHED IF ANY SUBSTITUTION AND SESSES SHIPLING SAFELY SA

B.ROOM THERMOSTATS SHALL BE PROGRAMMABLE WITH 5-1-1 DAY

C.PROGRAMMING AND 24-HOUR HEATING AND COOLING SETBACK CAPABILITY.

CAPABILITY.

DI-REPRODYATO SHALL BE INSTALLED LIBERE POLICATED ON PLANS, 46 NOHES ABOVE PRIVATED FLOOR LEVEL.

ENSTALLING BUSI-CONTRACTOR SHALL PROVIDE ENSINEER UITH COMPILETE CONTROL SCHEMATIC INCLUDING SUBMITTALS FOR EACH COMPONENT.

AIR DIFFUSERS AND RETURN/EXHAUST GRILLES SHALL BE SHOEMAKER, OR EQUIAL. PROPOSED MODEL NUMBERS FOR DIFFERENT APPLICATIONS ARE AS FOLLOUS:

APPLICATION MODEL * REMARKS

CLG GYPSUM SUPPLY LSW % Ø* LINEAR DIFUSER WITH I/S" BARS AT X" SPACING AND Ø" DEFLECTION

GYP9UM CEILING FG2 FILTERED RETURN

STAMP FACED FILTER GRILLE PROVIDE 2" MERY-13 FILTER

FOR EXACT LOCATION OF DIFFLIBERS AND GRILLES REFER TO ARCHITECTURAL REFLIGETED CEILING PLAN.
 SLOPE ALL CONDENSATE INSET AT IVE FER FOOT. CONDENSATE IN A DOMINAND PLEDUI CONDENSATE WALL SEE SAY SOCIETULE 40 PLOY LINES OF CHERUISEN OTHER.
 DEFOUNDED CHERUISEN OTHER IN LIEU OF SECONDARY DEAN FLOAT SHITCH FOR AIR HANDLES WILL INTERRUPT POWER TO THE FANCUL BUT HAND FROM THE DETECTED IN THE DRAIN PAIN.

FANCOIL UNIT WHEN MODISTURE IS DETECTED IN THE DRAIN PAN.

DICT THERRAIL, AND BEAL INC.

ADUCTING IN CONCEALED LOCATION SHALL, BE GALVANIZED

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CINNER LINING OF FLEX DUCTING SHALL BE SECURELY FASTENED WITH A PANDUIT STRAP. THE EXTERIOR LINING (INSULATION) SHALL BE SECURELY TAPED TO THE SHEET METAL FITTING. D.FACTORY-FABRICATED DUCT SYSTEMS SHALL COMPLY WITH ULISI.

LILLUS.

EMETAL TO METAL JOINTS SHALL BE SEALED WITH MASTIC
SEALANT TO PROVIDE AIRTIGHT PROTECTION PRIOR TO
NSULATION. APPLY SEALANT ACCORDING TO MANUFACTURER'S
RECONTENDATION.

F. CORREGATED ALIMINUM FLEX DUCT SHALL NOT BE ALLOWED.

G.ALL TAPES AND MASTIC SEALANTS SHALL COMPLY WITH ULISI,
III IAIA OR III IAIR.

PROVIDE PLEXIBLE DUCT CONNECTORS BETWEEN SUPPLY AND RETURN AND SUPPLY AND RETURN CONNECTIONS TO FANCOIL UNIT.

THE WASTER AND SUPPLY AND PETUNE CONNECTION OF PRANCEL UNIT.

IN CORRECT DUTY SIZES GRADUALLY, NOT SCHEDING IS DESCRIBED DIVERSIONED UNITED THE UNIT OF THE PROPERTY OF THE PR

NITERVALS (**IN.)

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MLLOMDANCE WITH THE SPECIFICATIONS.

IN NO DUETED ON NON-DUETED AIR MOVING DEVICE SHALL

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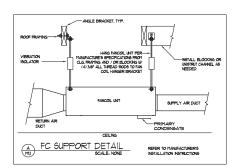
THE NOLACE SOURCE WITH APPOSTRONG' IO' WALL

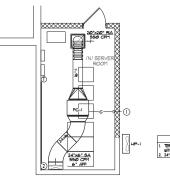
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TESTING MUETENISION.

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			COOLING		HEATING			FAN			E	LECT.					
SYMBOL	AREA SERVED	TOTAL (BTU/HR)	SENSIBLE (BTU/HR)	COIL EDB/EWB (°F)	HIGH INPUT/OUTPUT (BTU/HR)	DB (*F)	CFM	S.P. (WC)	O.A. (CFM)(1) (MIN)	VOLTAGE	MCA	COMP. LRA	FUSE/MOCP	MFGR & MODEL NO.	WEIGHT (LBS)	EFFICIENCY	REMARKS
FC-1	.(N) SERVER ROOM	17,500	12,500	80/65	21,600	47	554		(2)	(2)	0.21	***	(2)	FUJITSU # ARU18RLF	49		INDOOR HEAT PUMP FANCOIL UNIT DIMENSIONS: H="-13/16", W=35-7/16", D=24-7/16" BUILT-IN FLOAT SWITCH FOR CONDENSATE SOUND - 32 DBA
HP-1	.(N) SERVER ROOM	17,500	12,500	80/65	21,600	47				208/230 V. 1 PHASE	17.3		20	FUJITSU # AOU18RLFC	86	SEER = 19.7	GROUND MOUNTED OUTDOOR HEAT PUMP DIMENSIONS: H=24-7/16", W=34-1/2", D=13-7/8"





KEYED NOTES TERMINATE CONDENSATE 6" (MIN.) ABOVE GRADE BITH DOUNLARD ELBOU
 24"x6" 64 DUCT DROP TO REGISTER 6" AFF.

HVAC FLOOR PLAN

SCALE: 1/4" = 1'-@"





541 UREN STREET NEVADA CITY, CA 95959 PHONE (530) 265-2492 FAX (530) 265-2213



DISPATCH PLAN JUVENILE HALL 15434 CA-49 NEVADA CITY, CA HVAC FLOOR F No. Date: By Description: Plot Date 20-025 Job# as noted Date 1st Issued 6-10-2020 M1.1





- 20A. 125V, DUPLEX RECEPTACLE OUTLET. ALPHABET INDICATES SPECIAL MOUNTING HEIGHT PER LIST:

 a + 54° AFF
 b ABOVE COUNTER BACKSPLASH
 c LOCATE ON WALL ABOVE WINDOW, APPROX. 9° AFF.
- 20A, 125V, DOUBLE DUPLEX RECEPTACLE OUTLET
- GFC! TYPE; 20A,125V, DUPLEX RECEPTACLE; +18" A.F.F. TO CENTERLINE. PROVIDE WET-RATED DEVICE AND USE WEATHER-PROOF COVER FOR WET LOCATION INSTALLATIONS.
- SPECIAL PURPOSE RECEPTACLE OUTLET; RATING AS SHOWN; +18" A.F.F. TO CENTERLINE
- 20A, 125V, DOUBLE DUPLEX RECEPTACLE OUTLET. HALF-SHADED INDICATES ONE CONTROLLED DUPLEX OUTLET. PROVIDE A PERMANENT AND DURABLE LABEL INDICATING WHICH RECEPTACLE IS CONTROLLED E.G. 'CONTROLLED'
- S_D DIMMER SWITCH
- S TOGGLE SWITCH
- $\ensuremath{\widehat{\mathbb{S}}}_{\sigma,b}\ensuremath{-}\ensuremath{\widehat{\mathbb{S}}}_{\sigma,b}$ occupancy light control switch; wall and ceiling mounted UPPER CASE LETTER INDICATES SENSOR TYPE PER OCCUPANCY SENSOR SCHEDULE.
 - LOWER CASE LETTER INDICATES SWITCH CIRCUIT FOR FIXTURE

CONDUIT SYMBOLS

- CONDUIT INSTALLED CONCEALED ABOVE CEILINGS OR IN WALLS IN FINISHED AREAS OR EXPOSED IN UNFINISHED AREAS
- ---- CONDUIT INSTALLED BELOW FINISHED FLOOR OR BELOW GRADE
 - INDICATES CONDUIT TURNING UP
- INDICATES CONDUIT TURNING DOWN
- CONDUIT HOMERUN; ROUTE TO PANELBOARD, CABINET, OR TERMINAL BOARD INDICATED, AND TERMINATE CONDUCTORS TO CIRCUIT OVER CURRENT PROTECTIVE DEVICE

TELECOMMUNICATIONS SYMBOLS

NOTE: RACEWAY ONLY OUTLET. PROVIDE DOUBLE GANG BACK BOX AND SINGLE GANG ADAPTER PLATE WITH 1" CONDUIT AND PULLSTRING TO ACCESSIBLE CELLING SPACE.

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ONE-LINE DIAGRAM

(E)GENERATOR 250KW (300KVA) 277/480V, 3PH, 4W

◆ TELEPHONE/DATA OUTLET

NEUTRAL DISC. LINK

(E) PANEL 'LS'

TO (E) UTILITY
PAD MOUNTED 5TRANSFORMER

XXXX FEEDER DESIGNATION TAG

1 SHEET NOTE TAG



- S_{α} Letter indicates fixtures control (where shown)
- \Rightarrow_{22} number indicates circuit number (where shown)

POWER SYMBOLS

- SURFACE MOUNTED PANEL OR TERMINAL CABINET
- FLUSH MOUNTED PANEL OR TERMINAL CABINET
- ②-③ JUNCTION BOX; WALL MOUNTED, CEILING MOUNTED
 - MOTOR OUTLET
 - FUSED DISCONNECT SWITCH XX/XX/XX = AMP SWITCH/POLES/AMP FUSE
- NON-FUSED DISCONNECT SWITCH XX/XX = AMP SWITCH/POLES
- $^{\rm o}_{\rm o})^{225}_{\rm 3} \ \, {\rm STATIONARY\,-\, CIRCUIT\,\, BREAKER;\,\, RATING\,\, AS} \\ {\rm SHOWN\,\,\,ON\,\,\, Plans;\,\, AMPS/Poles}$

LIGHTING SYMBOLS

- RECESSED LIGHTING FIXTURE AND OUTLET BOX. TYPE AND SIZE PER FIXTURE SCHEDULE.
- 🖀 📤 EMERGENCY BATTERY UNIT WITH OR WITHOUT EXIT SIGN
- -⊗ -⊗ EXIT SIGN; WALL MOUNTED; ARROWS AND FACES AS SHOWN ON PLANS
- EXIT SIGN; CEILING MOUNTED; ARROWS AND FACES AS SHOWN ON PLANS
- STRIP LIGHT FIXTURE; LENGTH PER FIXTURE SCHEDULE CUSTOM LENGTHS PER PLAN.

FEEDER SCHEDULE Key A = Aluminum C = Conduit only S = Service secondary NOTE: NOT ALL FEEDERS SHOWN ARE USED ON THIS PROJECT.

4 #3 CU, 1 #8 CU GND., IN 1-1/4"C.

504 4 #6 CU, 1 #10 CU GND., IN 1"C.

(<u>\$</u>

504

504

1004

1004

1004

(E)DISTRIBUTION PANEL 'EDP 400 AMP, 277/480 VOLT, 3Ø, 4W NEMA 1 ENCLOSURE

(E) 125

(E)T-2 (E)T-

(E) PANEL 'HD' (E) PANEL 'HK' (E) PANEL 'HA'

GENERAL NOTES

- CONTRACTOR IS RESPONSIBLE FOR READING AND INCLUDING ALL INFORMATION PROVIDED IN THE WRITTEN NOTES THROUGHOUT THE DRAWINGS. SYSTEM REQUIREMENTS MAY NOT BE PICTORIAL.
- FURNISH ALL LABOR, MATERIALS, EQUIPMENT & SERVICES NECESSARY TO CONSTRUCT AND INSTALL COMPLETE & OPERATIONAL ELECTRICAL SYSTEMS INDICATED ON THE DRAWINGS & IN THE SPECIFICATIONS.
- PROVIDE NEW TYPEWRITTEN PANEL SCHEDULES FOR ALL MODIFIED PANELS TO INDICATE NEW AS-BUILT CONDITION.
- PROVIDE MELAMINE PLASTIC ENGRAVED LABELS FOR PANELS, MAIN SWITCHBOARD DISCONNECTS, AND ALL MAJOR ELECTRICAL EQUIPMENT.
- ALL NEW CONDUITS, WITHIN FINISHED SPACES, SHALL BE CONCEALED, UNLESS OTHERWISE NOTED.
- ALL ELECTRICAL DEVICES INDICATED ON THESE SHEETS ARE NEW UNLESS OTHERWISE NOTED AND ARE TO BE INSTALLED PER CBC1117B.6.
- DO NOT INSTALL RECEPTACLES OR TELEPHONE OUTLETS BACK-TO-BACK IN DEMISING WALLS.
- FURNISH AND INSTALL FIRE-MATED BACK BOXES IN FIRE RATED WALLS AND CELLINGS WHERE ELECTRICAL COLUMNS SICK AS LONG FROTUNES, SCIENCIALS, RELEPTIONE DUTIES, ETC., AME, MISTALLED STRONGES, STELLINGS OUTLES, ETC., AME, MISTALLED FIRE-RESISTING WALLS BY A MINIMAN OF 24" FORGOVIALLY AND BOX AMERA NOT TO EXCEED 16 N. SQ. PROVINGE STELL BOXES (OR OTHER LISTED BOXES) PER 2013 CALFORNIA BUILDING COCE 712.3.2.
- PROVIDE ALL SYSTEMS, EQUIPMENT, DEVICES, MATERIALS, FEEDERS, WIRING, CONDUITS AS SPECIFIED, WHETHER SHOWN OR NOT SHOWN ON FLOOR PLANS.
- D. PROVIDE #12 CONDUCTORS FOR ALL WIRING FOR CIRCUITS WHERE NOT SHOWN ON DRAWINGS. NUMBER AS REQUIRED IN CONDUIT SIZED PER NEC.
- . INSTALL AND CONNECT A CODE SIZE INSULATED GROUND CONDUCTOR IN ALL BRANCH CIRCUITS AND FEEDER CONDUITS. THESE EQUIPMENT GROUND WIRES MAY NOT BE SHOWN ON THE PLANS. INCREASE CONDUIT SIZE WHERE REQUIRED.
- 2. ELECTRICAL PANELBOARDS SHALL HAVE DOOR-IN-DOOR FRONT COVERS.
- FEEDERS ROUTED EXPOSED AT CEILING OR WALL SHALL BE APPROVED PRIOR TO ROUGH-IN.
- VERIFY CONTROL REQUIREMENTS FOR EXHAUST FANS, AIR CONDITIONING UNITS, AND FANS WITH CONTRACTOR PRIOR TO ROUGH-IN.

DEMOLITION NOTES

- ALL EXISTING DEVICE LOCATIONS ARE TO REMAIN UNLESS DEMOLITION WORK REQUIRES THEIR REMOVAL, NOT ALL EXISTING DEVICES ARE SHOWN.
- AS NEEDED TO MAINTAIN CIRCUIT CONTINUITY; PROVIDE A NEW PATHWAY AND CONDUCTORS TO REMAINING DEVICES.
- WHERE DEVICES ARE DEMOLISHED OR RELOCATED, REMOVE CONDUCTORS BACK TO NEAREST JUNCTION BOX AND REMOVE ALL ABANDONED PATHWAY FROM AREA OF WORK
- WHERE DEVICES OR LUMINAIRES ARE DEMOLISHED OR RELOCATED, PATCH, REPAIR AND REFINISH SURFACES.
- MAINTAIN CIRCUIT CONTINUITY TO ALL REMAINING DEVICES. FIELD CHECK AND VERRY THAT ALL EXISTING ROUNDING, TO EXISTING DEVICES TO REMAIN, IS ADEQUATELY TERMINATED. PROVIDE NEW GROUND WIRE AS REDED.

WORK STATEMENT

- ONE EXISTING LIGHT FIXTURE IS TO BE RELOCATED.

 NEW TRANSFORMER AND ELECTRICAL PANEL IN NEW LIT. ROOM.
 POWER AND LIGHTING TO NEW LIT. ROOM.
 NEW KITCHEN EQUIPMENT IN EXISTING BREAK ROOM.
 NEW STORM COALL CENTER ROOM.
 EXISTING LIGHTING TO REMAIN, UNLESS OTHERWISE NOTED.
 EXISTING RECEPTACLES TO REMAIN UNLESS OTHERWISE NOTED.

	ABBREVATIONS
AFF	AllOVE FINSHED FLOOR
CU	COPPER
(E)	EXISTING TO REMAN
(EL)	EXISTING RELOCATED TO THIS LOCATION
GFC!	GROUND FAULT CIRCUIT INTERRUPTING
0	GROUND
NL.	NGHT LIGHT CROUT
(R)	TO BE REMOVED/DEMOUSHED
TYP	UNLESS OTHERWISE NOTED
WP	WEATHERPROOF

	ELECTRICAL SHEET INDEX	
SHEET	DESCRIPTION	SCALI
E0.1	LEGEND, ONE-LINE DIAGRAM, & PANEL SCHEDULE	NONE
E2.1	LIGHTING PLAN & SCHEDULES	1/8" = 1'-
E3.1	POWER PLAN	1/8" = 1"-

PFRMIT SUBMITTAL 1 DATE: 07-31-2020 RUSSELL DAVIDSON ARCHITECTURE + DESIGN davidsonarch.com

Spectral 🚳 Engineering Electrical

Consulting Engineers

stamp



CENTER COUNTY YOUTH
H REMODEL NEVADA (DISPATCH

PLAN REVIEW #1 08-2020 SCALE AS NOTED CHECKED BY:

CA

LEGEND, ONE-LINE DIAGRAM, AND NOTES

E0.1

(E)	PANEL 'LA'	Г					But	Rating	(Amps):	100		П	SEE NOTES BELOW FOR FURTHER	
ain:	100 AMPS								Volts	208/120	V		INFORMATION AND PANEL OR	
nclosur	SURFACE								Phase:	3			CIRCUIT REQUIREMENTS.	
									Wires:	4			CINCUIT REGUNERATO.	
		NOTE	Load	Load	OC D				Device	Load	Load	NOTE		
Ckt	Description	9	Type	(KVA)	Amps	Poles	Phase	Amps	Poles	(KVA)	Type		Description	Cki
-1	LIGHTING - ADMIN.	1	1	1.07	20	1	A	20	1	1.05	- 1		LIGHTING - STORAGE	2
3	LIGHTING - ADMIN.	1	1	0.97	20	- 1	8	20	- 1	0.32	1		LIGHTING - MAINTENANCE	4
5	LIGHTING - ADMIN.	1	1	1.02	20	1	C	20	1	1.05	- 1		LIGHTING - KITCHEN	- 6
7	LIGHTING - OUTDOORS	1	1	0.60	20	- 1	A	20	1	1,00	1		LIGHTING - STORAGE	. 0
9	LIGHTING - OUTDOORS	1	1	0.70	20	1	8	20	- 1	0.58	1		LIGHTING - LAUNDRY	10
11	LIGHTING - OUTDOORS	1	1	0.90	20	1	C	20	1	0.70	2		REFRIGERATOR	12
13	LIGHTING - OUTDOORS	1	1	0.50	20	1	Á	20	-1	1.50	5		COFFEE MAKER	14
15	LIGHTING - OUTDOORS	1	1	0.60	20	1	B	20	1	1.50	5		MICROWAVE	16
17	TIME SWITCH TSA'	1	7	1.00	20	1	C	20	.1	0.20	1		LIGHTING - OUTDOORS	18
19	WATER HEATER	1	7	1.80	20	- 1	A	20	- 1	0.20	7	1	FIRE ALARM BELL	20
21	WATER HEATER	1	7	1.80	20	1	8	20	1	0.40	7		EXHAUST FAN	22
23	SPARE				20	- 1	C	20	- 1	0.90	2		RECEPTACLES	24
25	A/C - MEDICAL ROOM	1	4	1.50	20	2	A	20	- 1	0.90	2		RECEPTACLES - OFFICE	26
27	*	1	4	1.50		-	8	20	- 1	0.90	2		RECEPTACLES - OFFICE	28
29	SPACE						C			0.00			SPACE	30
31	SPACE				+.		A	: +	1.4	0.00	. +		SPACE	32
33	SPACE					-	- 8			0.00			SPACE	34
35	SPACE	-			4.		C			0.00			SPACE	36
37	BATTERY CHARGER	1	7	1.00	20	1	A	20	1	0.50	7		FUEL CONTROL PANEL	38
39	GENERATOR HEATER	1	7	1.50	20	1	. 8	30	2	1.50	7		GENERATOR HEATER	- 40
41	GENERATOR HEATER	1	7	1.50	20	. 1	C		+	1.50	7	1	•	42
				6.47	7.07	4.42		5.15	5.18	4.35				
				A	В	C		A	В	C				
	LOAD PER PHASE			A=	11.62	B=	12.25	C=	8.77					
	PE (NJMBER)		0	1	2	3	. 4	5	6	7				
	PE (DESCRIPTION)			Lighting					Elevator		Total			
	ONNECTED LOAD (KVA)		0.00	10.54	3.40	0.00	3.00	3.00	0.00	12.70	32.64			
	MULTIPLIER:		1.00	1.25	formula*		7.25	0.65	1.00	1.00				
	ESIGN LOAD		0.00	13.18	3.40	0.00	3.75	1.95	0.00	12.70	34.98		KVA	
TAL A	MPS		0.0	36.6	9.4	0.0	10.4	5.4	0.0	35.3	97.2		AMPS	
				formula*									ted Load is greater than 10KVA.	
					Then th	e deman	id load i	((Can	vected Lo	nad - 10)	* .5) +10	, E	se Demand Load equals Connected Load.	
DTES:	V.													
1	EXISTING CIRCUIT, EXISTING LOAD.												1	
2	EXISTING CIRCUIT, NEW LOAD ADDED.												1	
3	NEW CIRCUIT, NEW LOAD												1	

(N)	PANEL 'LT1'						Bur	s Rating	(Amps):	100				
Main:	100 AMPS						- 00	1 410 9		208/120	v		SEE NOTES BELOW FOR FURTHER	
	MUSIAGE	1 ,	\wedge						Phase:	3		1	INFORMATION AND PANEL OR CIRCUIT REQUIREMENTS.	
UC.		ßΖ	1					1	Wires:	- 4		1	CINCUIT REQUIREMENTS.	
Ckt	***************************************	MOTE	Load	Load	OC D				evice	Load	Load	210		
CAI	Description OVEN		Type	(KVA) 3.30	Amps 40	Poles	Phase	Amps	Poles	(KVA)	Type	2	Description SPACE	Ckt
3	UVEN	1	5		40	2	A	-	-	0.00	-		SPACE	4
5	LIGHTING	1	5 2	3.30	20	1	B	-	1	0.00	-	:	SPACE	6
7	SPACE	+	-	0.40	-	-	A	1	1	8.05	7		PANEL LTZ VIA LPS	8
9	SPACE	÷			-		B	-	1	8.53	7	2		10
11	SPACE	÷					C	-	-	9.92	7	2		12
	er rive	-	_	3.30	3.30	0.40	-	8.05	8.53	9.92	_			-
				A	В	C		A	В	C				
	LOAD PER PHASE			An	11.35	B=	11.83	C+	10.32					
OAD TY	YPE (NUMBER)		0	1	2	3	4	5	6	7				
	YPE (DESCRIPTION)		P.Rm.L	Lighting			L. Mot.		Elevator	Equip	Total			
TOTAL C	CONNECTED LOAD (KVA)		0.00	0.00	0.40	0.00	0.00	6.60	0.00	26.50	33.50			
	D MULTIPLIER:		1.00	1.25	formula*	1.00	1.25	0.65	1.00	1.00				
TOTAL D	DESIGN LOAD		0.00	0.00	0.40	0.00	0.00	4.29	0.00	26.50	31.19		KVA	
TOTAL A	MPS		0.0	0.0	1.1	0.0	0.0	11.9	0.0	73.6	86.7		AMPS	
				formula*	Type 2	(recepts	icles) fo	rmula is	as follow	s: If the	Total Co	nnec	cted Load is greater than 10KVA,	
					Then the	e demar	nd load i	s ((Cons	nected Lo	oad - 10)	* .5) +1	0, E)	se Demand Load equals Connected Load.	
WOTES:	A POSSESSION CONTRACTOR													
1	DEDICATED CIRCUIT.												1	
2	PROVIDE PANEL WITH FEED-THRU LUC	08												
3														
4	PROVIDE LOCKING MECHANISM ON CIT	RCU	TBREA	KER								_		
78.0	DANIES II TOLION HIDER											_		
(N)	PANEL 'LT2' (ON 'UPS')	1					But	Rating		100 208/120	,		SEE NOTES BELOW FOR FURTHER	
Asin:	100 AMPS												INFORMATION AND PANEL OR	
							-				_			
	e SURFACE	1	^						Phase:	3			CIRCUIT REQUIREMENTS.	
	10,000 AMPS	0	î	food		No. Serie		00.0	Phase: Wires:	3 4				
inclosur ViC	10,000 AMPS	0	Load	Load (KVA)		levice Poins	Phase		Phase: Wires: levice	3 4 Load	Load	NOTE	CIRCUIT REQUIREMENTS.	CH
	10,000 AMPS Description	HOH		Econd (KVA) 0.50		Poles 1	Phuse	OC E	Phase: Wires:	3 4		# NOTE		Ckt 2
inclosur ViC	10,000 AMPS	0	Load Type	(KVA)	Amps			Аттря	Phase: Wires: levice	4 Load (KVA)	Load Type		Description Data Rack #1 POWER (AT&T)	
Ckt 1	10,000 AMPS Description MOTORIZED DOOR OPENER	1 MORE	Load Type 7	(KVA) 0.50	Amps 20	Poles 1	A	Amps 20	Phase: Wires: Device Poles 1	3 4 Load (KVA) 0.48	Load Type 7	1	Description DATA RACK #1 POWER (AT&T) DATA RACK #1 POWER (AT&T)	2
Ckt 1 3	10,000 AMPS Description MOTORIZED DOOR OPENER SPARE	1 HOH	Load Type 7	(KVA) 0.50 0.00	Amps 20 20	Poles 1	A B	Amps 20 20	Phase: Wires: levice Poles 1	3 4 Load (KVA) 0.48 0.48	Load Type 7	1	Description Data Rack #1 POWER (AT&T)	2
Ckt 1 3	Description MOTORIZED DOOR OPENER SPARE SPARE	310H T	Load Type 7	(KVA) 0.50 0.00 0.00	Amps 20 20 20	Poles 1 1	B C	20 20 20 20	Phase: Wires: Device Poles 1 1	3 4 Load (KVA) 0.48 0.48 1.87	Load Type 7 7	1	Description Description DATA RACK #1 POWER (AT&T) DATA RACK #1 POWER (AT&T) DATA RACK #2 POWER (RACKO)	2 4 6
Ckt 1 3 5 7	10,000 AMPS Description MOTORIZED DOOR OPENER SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE RECEPT - DISPATCH CONSOLE #1	1	Load Type 7	0.50 0.00 0.00 0.00 1.58	20 20 20 20 20 20 20	Poles 1 1 1	B C A B	20 20 20 20 20 20 20	Phase: Wires: Poles 1 1 1	3 4 Load (KVA) 0.48 0.48 1.87 1.87	Load Type 7 7 7 7	1 1	CIRCUIT REQUIREMENTS. Description DATA RACK #1 POWER (ATST) DATA RACK #1 POWER (ATST) DATA RACK #2 POWER (RACIO)	4 6 8 10
Ckt 1 3 5 7	Description MOTORIZED DOOR OPENER SPARE SPARE SPARE SPARE	1 1	Load Type 7 - - 2	0.50 0.00 0.00 0.00	20 20 20 20 20	Poles 1 1 1 1	B C A	20 20 20 20 20	Phase: Wires: Poles 1 1 1 1	3 4 Load (KVA) 0.48 0.48 1.87 1.87	Load Type 7 7 7 7 7	1 1 1	Description DATA RACK #1 POWER (AT&T) DATA RACK #1 POWER (AT&T) DATA RACK #2 POWER (AT&T) DATA RACK #2 POWER (RADIO) DATA RACK #2 POWER (RADIO)	2 4 6
Ckt 1 3 5 7 9	10.000 AMPS Description MOTORIZED DOOR OPENER SPARE SPARE SPARE RECEPT - DISPATCH CONSOLE #1 RECEPT - DISPATCH CONSOLE #2	1	Load Type 7 - - 2 2	(KVA) 0.50 0.00 0.00 0.00 1.58 1.58	20 20 20 20 20 20 20 20	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	B C A B	20 20 20 20 20 20 20 20	Phase: Wires: Poles: 1 1 1 1 1	3 4 Load (KVA) 0.48 0.48 1.87 1.87 0.70 0.70	Load Type 7 7 7 7 7 7	1 1 1 1	CRCUIT REQUIREMENTS. Description DATA RACK #1 POWER (AT&T) DATA RACK #1 POWER (AT&T) DATA RACK #2 POWER (RADIO) DATA RACK #2 POWER (RADIO) DATA RACK #2 POWER (DR) DATA RACK #3 POWER (DR)	2 4 6 8 10
Ckt 1 3 5 7 9 11 13	10.000 AMPS Description MOTORAZED DOOR OPENER SPARE SPARE SPARE RECEPT - DISPATCH CONSOLE #1 RECEPT - DISPATCH CONSOLE #2	1 1	Load Type 7 - - 2 2 2	(KVA) 0.50 0.00 0.00 0.00 1.58 1.58	20 20 20 20 20 20 20 20 20 20	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A B C A B C	Amps 20 20 20 20 20 20 20 20 20	Phase: Wires: Device: Poles: 1 1 1 1 1	3 4 Load (KVA) 0.48 0.48 1.87 1.87 0.70 0.70	Load Type 7 7 7 7 7 7	1 1 1 1 1	Description DATA RACK #1 POWER (AT&T) DATA RACK #1 POWER (AT&T) DATA RACK #1 POWER (AT&T) DATA RACK #2 POWER (RACIO) DATA RACK #2 POWER (RACIO) DATA RACK #2 POWER (RACIO) DATA RACK #3 POWER (DR)	2 4 6 8 10 12 14
Ckt 1 3 5 7 9 11 13 15	Description Description MOTOR/ZID DOOR CPEMIR SPARE SPARE SPARE SPARE SPARE SPARE SPARE RECEPT - DISPATCH CONSIGE #1 RECEPT - DISPATCH CONSIGE #2 RECEPT - DISPATCH CONSIGE #2	1 1 1	Load Type 7 - - 2 2 2 2	(KVA) 0.50 0.00 0.00 0.00 1.58 1.58 1.58	Amps 20 20 20 20 20 20 20 20 20 20	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A B C A B C A B	Amps 20 20 20 20 20 20 20 20 20	Phase: Wires: Device: Poles: 1 1 1 1 1	3 4 Load (KVA) 0.48 1.87 1.87 0.70 0.70 0.48 0.48	Load Type 7 7 7 7 7 7	1 1 1 1 1 1	CRCUIT REQUIREMENTS. Description Descript	2 4 6 8 10 12 14 16
Ckt 1 3 5 7 9 11 13 15 17 19	Description Description MOTORIZID DOOR OPENIR SPARE SPARE SPARE FECEPT - DISPATCH CONSOLE #1 RECEPT - DISPATCH CONSOLE #3	1 1 1 1 1 1	Loed Type 7 2 2 2 2 2 2 2 2 2 2	(KVA) 0.50 0.00 0.00 0.00 1.58 1.58 1.58 1.58	Amps 20 20 20 20 20 20 20 20 20 20 20 20 20	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A B C A B C A	Amps 20 20 20 20 20 20 20 20 20 20 20	Phase: Wires: Poles 1 1 1 1 1 1 1 1 1 1	3 4 Load (KVA) 0.48 0.48 1.87 0.70 0.70 0.48 0.48	Load Type 7 7 7 7 7 7	1 1 1 1 1 1 1	CIRCUIT REQUIREMENTS. Description DATA RACK #1 POWER (ATAT) DATA RACK #1 POWER (ATAT) DATA RACK #2 POWER (RACIO) DATA RACK #2 POWER (RACIO) DATA RACK #2 POWER (RACIO) DATA RACK #3 POWER (RO) DATA RACK #3 POWER (RO) DATA RACK #4 POWER DATA RACK #4 POWER DATA RACK #5 POWER DATA RACK #5 POWER DATA RACK #5 POWER	2 4 6 8 10 12 14 16 18 20
Ckt 1 3 5 7 9 11 13 15 17	Description Description MOTUREZIO DO CON PENNIR SPARE	1	Load Type 7 - - 2 2 2 2 2 2	(KVA) 0.50 0.00 0.00 0.00 1.58 1.58 1.58 1.58 1.58	Amps 20 20 20 20 20 20 20 20 20 20 20 20 20	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A B C A B C C	Amps 20 20 20 20 20 20 20 20 20 20 20 20 20	Phase: Wires: Poles 1 1 1 1 1 1 1 1 1 1	3 4 Load (KVA) 0.48 0.48 1.87 0.70 0.70 0.48 0.48 0.48	Load Type 7 7 7 7 7 7	1 1 1 1 1 1 1 1	DESCRIPTION DESCRIPTION OATA REACH IS FOOVER (ATAT) OATA REACH IS FOOVER (ATAT) OATA REACH IS FOOVER (ATAT) OATA REACH IS FOOVER (RADIO) DATA RACK SE FOOVER (DR) DATA RACK SE FOOVER DATA RACK SE FOOVER DATA RACK SE FOOVER DATA RACK SE FOOVER	2 4 6 8 10 12 14 16 18
Ckt 1 3 5 7 9 11 13 15 17 19 21	IS GOD AMPS MICHAEL DESCRIPTION MICHAEL DESCRIPTION SPARE SPARE RECEPT - DISPATCH CONSIGLE #2 RECEPT - DISPATCH CONSIGLE #3 RECEPT - DISPATCH CONSIGLE #4 RECEPT - DISPATCH CONSIGLE #4	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Load Type 7 	(KVA) 0.50 0.00 0.00 0.00 1.58 1.58 1.58 1.58 1.78	20 20 20 20 20 20 20 20 20 20 20 20 20 2	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A B C A B C A B	Amps 20 20 20 20 20 20 20 20 20 20 20 20 20	Phase: Wires: Device Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 4 Load (KVA) 0.48 0.48 1.87 0.70 0.70 0.48 0.48 0.48 0.48	Load Type 7 7 7 7 7 7 7 7 7 7	1 1 1 1 1 1 1 1	CRCCUT REQUIREMENTS. Description OATA REACH I POWER LATET OATA REACH I POWER LADIO DATA RACH I POWER LOD OATA RACH I POWER LOD OATA RACH I POWER OATA RACH I POWER DATA	2 4 6 8 10 12 14 16 18 20 22
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Ckt 1 3 5 7 9 11 13 15 17 19 21 23 25	Description MOTORAD DOOR OPENER MATURAD DOOR OPENER MATURAD DOOR OPENER MATURAD DOOR OPENER MATURAD MA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Load Type 7 	(KVA) 0.50 0.00 0.00 0.00 1.58 1.58 1.58 1.58 1.78 1.08	20 20 20 20 20 20 20 20 20 20 20 20 20 2	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A B C A B C A B C A	Amps 20 20 20 20 20 20 20 20 20 20 20 20 20	Phase: Wires: Device Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 4 Load (KVA) 0.48 0.48 1.87 0.70 0.70 0.48 0.48 0.48 0.48 0.48 0.48	Load Type 7 7 7 7 7 7 7 7 7 7 7 7 7 7	1 1 1 1 1 1 1 1 1 1	CRICUIT REQUIREMENTS. Description DATA RACK AT POWER (ATST) DATA RACK AT POWER (DR) RECEPTAGE. THE RACKBOAND AT	2 4 6 8 10 12 14 16 18 20 22 24 28
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CH1 1 3 5 5 7 9 9 111 13 15 15 17 17 19 12 1 23 25 27 29 31 33 35 35 37 39 41	SEGNAMES DENDISON LICTURED OPENISON LICTURED OPENISON SPANE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Load Type	(KVA) 0.50 0.50 0.00 0.00 0.00 0.00 0.00 1.58 1.58 1.78 1.78 1.78 1.78 1.98	Amps 20 20 20 20 20 20 20 20 20 20 20 20 20	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A B C C A A B C C A A B C C A A B C C A A B C C A A B C C A A B C C A A B C C A A B C C A A B C C A A B C C A A B C C A A B C C A A B C C C A A B C C C A A B C C C A A B C C C A A B C C C A A B C C C A A B C C C A A B C C C A A B C C C C	Anps 20 20 20 20 20 20 20 20 20 20 20 20 20	Phase: Wires: Wires: 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 4 Load (KVA) 0.49 0.49 0.49 0.49 0.49 0.70 0.70 0.49 0.70 0.70 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.4	Load Type 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CIRCUIT REQUIREMENTS. Description (DATA RACK #1 POWER (ATS)) (DATA RACK #1 POWER (BM)) (PATA RACK #1 POWER (BM)) (PAT	2 4 6 8 10 12 14 16 18 20 22 24 28 28 30 32 34 34 38 40

3
4 PROVIDE LOCKING MECHANISM ON CIRCUIT BREAKER

1 DEDICATED CIRCUIT.

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stamp



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ID NAME DATE
1 PLAN REVIEW #1 08-2020 02-01-2020 AS NOTED SCALE CHECKED BY: MLH

> PANEL **SCHEDULES**

SUBMITTAL STAMP PERMIT SUBMITTAL 1 DATE: 07-31-2020

E0.2



NOTES:

REMAIN

- A. ALL LED FIXTURES TO BE PROVIDED WITH NO LESS THAN A 5-YEAR WARRANTY

- D. SPECIFIED MANUFACTURERS ARE APPROVED TO SUBMIT BID. INCLUSION DOES NOT RELIEVE MANUFACTURER FROM SUPPLYING PRODUCT AS DESCRIBED.

EXISTING LIGHTING TO REMAIN

EXISTING LIGHTING

LIGHTING PLAN

EXISTING LIGHTING TO REMAIN

-2

ΓĠ <u>F1</u>

<u>F1</u>, F1 LT1-5 EL, £1.

<u>F1</u>,

EXISTING LIGHTING TO REMAIN

EXISTING LIGHT FIXTURE TO BE RELOCATED TO THIS LOCATION AND TO REMAIN CONNECTED TO EXISTING CONTROL SYSTEM.

EXISTING LIGHTING

IGHTING

PROVIDE SUBMITIALS THAT INCLUDE THE INFORMATION PROVIDED ABOVE ON EACH LUMINARY EYEF, WITH APPLICABLE OPTIONS CLEARLY CHECKED ON HIGHLIGHTED, SUBMITITIALS NOT INCLUDING THIS INFORMATION WILL BE RETURNED AS REJECTED BY THE EMBRICER OF RECORD.

(1) SHEET NOTES

- PROVIDE NEW EMERGENCY/EXIT COMBO LIGHT AND CONNECT TO EXISTING CIRCUIT IN THIS LOCATION. MATCH EXISTING EXIT LIGHT MAKE/MODEL.
- PROVIDE PIR VACANCY SENSOR. MANUAL 'ON' WITH 15 MINUTE DELAY.

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Consulting Engineers

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GENERAL NOTES

- CONTRACTOR SHALL PROVIDE A COMPLETE INSTALLATION INCLUDING ALL WORK REQUIRED TO PROVIDE A COMPLETE AND OPERATING SYSTEM FOR THE IMPROVEMENTS INDICATED.
- ALL CONDUITS AND RACEWAYS SHALL BE RUN IN LOCATIONS WHERE THEY WILL NOT BE VISIBLE.
- PROVIDE 2 #12 CONDUCTORS AND 1 #12 GROUND UL-1NLESS OTHERWISE NOTED.
- INTERIOR ELECTRICAL PANELS TO BE NEMA1 WITH LOCKING ENCLOSURE.
- INTERIOR CONDUIT TO BE INSTALLED AT 90-DEGREE ANGLES TO WALLS IN A NEAT AND ORDERLY MANNER.

NOTE: EXISTING LIGHTING WITH GENERATOR BACK-UP POWER FOR EMERGENCY LIGHTING

THROUGHOUT BUILDING IS PROVIDED REQUIREMENTS.

CENTER NEVADA COUNTY YOUTH DISPATCH REMODEL , CA ID NAME

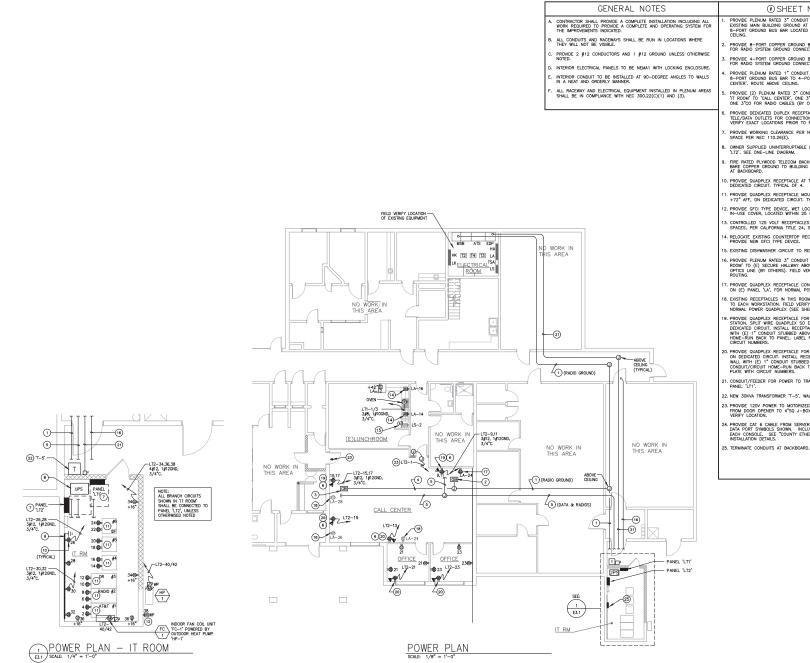
AS NOTED SCALE CHECKED BY:

> LIGHTING PLAN

RE-SUBMITTAL #1 DATE: 09-08-2020

E2.1





(I) SHEET NOTES

- PROVIDE PLENUM RATED 3" CONDUIT WITH #2/O COPPER GROUND, FROM EXISTING MAIN BUILDING GROUND AT (E) ELECTRICAL ROOM TO NEW 8-PORT GROUND BUS BAR LOCATED AT 'CALL CENTER', ROUTE ABOVE CELLING.
- PROVIDE 8-PORT COPPER GROUND BUS BAR AT 'CALL CENTER' CEILING FOR RADIO SYSTEM GROUND CONNECTIONS.
 - PROVIDE 4—PORT COPPER GROUND BUS BAR AT 'CALL CENTER' CEILING FOR RADIO SYSTEM GROUND CONNECTIONS.
 - PROVIDE PLENUM RATED 1" CONDUIT WITH #2 COPPER GROUND FROM 8-PORT GROUND BUS BAR TO 4-PORT GROUND BUS BAR AT 'CALL
 - PROVIDE (2) PLENUM RATED 3" CONDUIT ONLY WITH PULL STRING, FROM 'IT ROOM' TO 'CALL CENTER'. ONE 3"CO FOR DATA CABLES (BY OTHERS), ROUTE ABOVE CEILING.
 - PROVIDE DEDICATED DUPLEX RECEPTACLES (ON UPS PANEL) AND TELE/DATA OUTLETS FOR CONNECTIONS TO EACH COMMAND CONSOLE. VERIFY EXACT LOCATIONS PRIOR TO ROUGH-IN.
 - PROVIDE WORKING CLEARANCE PER NEC 110.26(A), AND DEDICATED SPACE PER NEC 110.26(E).
 - OWNER SUPPLIED UNINTERRUPTABLE POWER SUPPLY (UPS) FOR PANEL 'LT2'. SEE ONE-LINE DIAGRAM.
 - FIRE RATED PLYWOOD TELECOM BACKBOARD (BY OTHERS) PROVIDE #6
 BARE COPPER GROUND TO BUILDING GROUND SYSTEM AND COIL 2 FEET
 AT BACKBOARD.
 - D. PROVIDE QUADPLEX RECEPTACLE AT TELECOM BACKBOARD, +48" AFF, ON DEDICATED CIRCUIT. TYPICAL OF 4.
 - PROVIDE QUADPLEX RECEPTACLE MOUNTED TO SIDE OF LADDER RACK, +72" AFF, ON DEDICATED CIRCUIT. TYPICAL OF 2 FOR EACH RACK.

 - PROVIDE GFCI TYPE DEVICE, WET LOCATION RATED, WITH WEATHER PROOF IN-USE COVER, LOCATED WITHIN 25 FEET OF HVAC EQUIPMENT.
 - CONTROLLED 125 VOLT RECEPTACLES ARE NOT REQUIRED AT NEW OFFICE SPACES, PER CALIFORNIA TITLE 24, SECTION 130.5(d) EXCEPTION #1(v).
 - . RELOCATE EXISTING COUNTERTOP RECEPTACLE TO NEW LOCATION AND PROVIDE NEW GFC! TYPE DEVICE.
 - 5. EXISTING DISHWASHER CIRCUIT TO REMAIN FOR NEW DISHWASHER.
 - PROVIDE PLENUM RATED 3" CONDUIT ONLY WITH PULL STRING, FROM 'IT ROOM' TO (E) SECURE HALLWAY ABOVE T-BAR "GROWS-NEST" FOR FIBER OPTICS LINE (BY OTHERS). FIELD VERIFY LOCATION AND CONDUIT ROUTING.
 - PROVIDE QUADPLEX RECEPTACLE CONNECTED TO (E) RECEPTACLE CIRCUIT ON (E) PANEL 'LA', FOR NORMAL POWER TO EACH WORKSTATION.
 - EXISTING RECEPTACLES IN THIS ROOM TO BE USED FOR NORMAL POWER TO EACH WORKSTATION. FIELD VERIFY (E) CIRCUITS AND EXTEND TO NEW NORMAL POWER QUADPLEX (SEE SHEET NOTE #17).
 - PROVIDE QUADPLEX RECEPTACLE FOR CRITICAL POWER TO EACH WORK STATION, SPLIT WIRE QUADPLEX SO EACH DUPLEX IS ON SEPARATE DEDICATED (CROTIC) MISTAL RECEPTACLE IN (G) 4750 J-80X AT WALL HOME-RIN BACK TO PANEL JABEL RECEPTACLE COVER PLATE WITH CROWN THROUGH THE PANEL JABEL RECEPTACLE COVER PLATE WITH CROWN THROUGH THE PANEL JABEL RECEPTACLE COVER PLATE WITH CROWN THROUGH THE PANEL PANEL THROUGH THROU
 - D. PROVIDE QUADPLEX RECEPTACLE FOR CRITICAL POWER TO WORK STATION, ON DEDICATED CIRCUIT. INSTALL RECEPTACLE IN (E) 4°50 J-BOX AT WALL WITH (E) 1" CONDUIT STUBBED ABOVE CELIUNG. EXTEND CONDUIT/CIRCUIT HOME-RUN BACK TO PANEL. LABEL RECEPTACLE COVER PLATE WITH CIRCUIT INJMENSE.
 - CONDUIT/FEEDER FOR POWER TO TRANSFORMER FROM PANEL 'EDP' FOR PANEL 'LT'.
 - 22. NEW 30KVA TRANSFORMER 'T-5', WALL MOUNT +90" AFF.
 - PROVIDE 120V POWER TO MOTORIZED DOOR OPENER. PROVIDE 1/2°C FROM DOOR OPENER TO 4°SQ J-BOX AT WALL FOR PUSH BUTTON. FIELD VERIFY LOCATION.
 - PROVIDE CAT 6 CABLE FROM SERVER ROOM TO DISPATCH CONSOLES AT DATA PORT SYMBOLS SHOWN. INCLUDE QUANTITY 8 CAT 6 CABLES AT EACH CONSOLE. SEE "COUNTY ETHERNET CABLING SPECIFICATIONS" FOR INSTALLATION DETAILS.

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CENTER NEVADA COUNTY YOUTH DISPATCH REMODEL

_			
ID	NAME		DATE
- 1	PLAN REVIE	W #1	08-2020
SUBM	ITTED:	02-01-2	020
SCALE		AS NOT	rED
DRAW	N BY:	JL	
CHEC	VED BY:	ARI III	

CA 015

POWER PLAN

RE-SUBMITTAL #1 DATE: 09-08-2020

E3.1



Indoor Lighting				_	1-1	fab. Marin			ETKITE OF CALIFORNIA.		
			The account control	10	Indoor I	ugnting	CALIFORNIA	EMERGY COMMISSION	Indoor Lighting	CALIFFORM THREE	P COMMISSION NRCC 4.TH-6
CERTIFICATE OF COMPL			Colorona Inch	NACC-LTI-E		E OF COMPLIANCE	The state of the s	NRCC-LTH-E	CERTIFICATE OF COMPLIANCE		
Project Name: DISPA		Report Page:		Page 3 of 6	Project Nar	ne: DISPATCH II	EMODEL Report Page:	Page 2 of 6	This document is used to demonstrate compliance with requirements in	\$110.8-\$110.10ct \$120.0 \$120.1 \$140.6 and \$141.0007 for indoor lighting scapes	using the
Project Address: NEVAL	NEAL OTY, CA	Date Prepared:		7/1/2020	Project Add	Press: NEVADA CI	Y, CA Oute Prepared:	7/1/2020	prescriptive peth. Project Name: DISPATCH REMICCEL	Name and Associated States and Associated St	F
Table instructions: Piece	are include lighting controls for conditioned and unco	aditioned spaces in this table. When on or	otion having a * is selected, the notes se	ection of this tobie			Controls Compliance (See Table III for Details) COMPLIES with	Exceptional Conditions	Project Address: NEVADA CITY, CA	Report Page: Date Prepared:	Page 1 of 6 7/1/2020
must be completed. The	e lighting controls section of the Compliance Summo	y Toble on the first page will show "DOES	S NOT COMPLY" if the notes are left blam	4.			Rated Power Reduction Compliance (See Table Q for Details) Not	t Applicable		Essection .	7741444
Building Level Controls				10,111	-	IONAL CONDITIO		-	A. GENERAL INFORMATION 01 Project Location (GRV) MEVADA CF	TV 04 States Constituting Street Stre	
	01		62	03			and table comments because of selections made or data entered in tables throughout the form.	· ·	02 Project Cocation (city) NEVADA CI 02 Climate Zone 11	TY 04 Itetal Conditioned Floor Area (It ²) 235 05 Itetal Unconditioned Floor Area (It ²) 0	
9	Mandatory Demand Response \$110.12(c)	Shut Off	f Controls	Field Inspector Pass Fail	print taken	and June and a	months constitute or come of selections make in section and an appeal procedures the form.		03 Decupancy Types Within Project (select all that apply):	OS # of Stories (Habitable Above Grade) 1	
	\$100.1400	318	V.110	0 0			ols Permit Applicant Notes:		[2] Office		Areas
Area Level Controls	111	-			NO DAYLE	EQUIPAM			☐ Parking Garage ☐ High-Rise Residential ☐ Reloc	utable Mealthcare Other (write in):	
04	05 06	07 08	09 10 11	12	140 0410	MARKET			B. PROJECT SCOPE	The state of the s	(6)
	Complete Building or Area Category Area Contr.		Primary/Skylit Secondary Interlock	ked Field Inspector						e of the permit application and are demonstrating compliance using the prescriptive po	ath suttined in
Area Description	Primary Function Area \$130.11a		Daylighting Daylighting System \$130.1161 \$140.6161 \$140.616			ONAL REMARKS	ole by the permit applicant to the Authority Having Arciadiction.	- 0	\$140.6 or \$141.00xi2 for alterations. WARNING: Changing the Calculat	ion Method in this table will result in the deletion of data previously input. If you need	to change the
IT EQUIPAM	All Other Searce Young Manual ON				75m feete /	ncholes remarks m	ade by the permit appropriate to the Authority Moving Arcadiction.		colculation method, please open a new form or use "Save As". Scope of Work	Conditioned Spaces Unconditioned Se	
II EQUIP-MM	All Other Space Types. OFF	Exempt* Occ. Sensor	Exempt* Exempt*	0 0					61	02 03 04	05
*NOTES: Controls with a	a * require a note in the space below explaining how	compliance is achieved.	13		-				My Project Consists of (check all that apply):	Calculation Method Area (H ²) Calculation Method	Area (ft²)
EX. Conference 1: Prima	ory/Skylight Doylighting: Evernal because less than 2	20 watts of general lighting;	Plan Sheet Showing Daylit	Zones:		R LIGHTING FIXT		- 6	New Lighting System	Area Category 235 Complete Building	0
EXCEPTION 1 to 5130.10	1062					uctions: include oil Vattage: Condition	permanent designed lighting and all portable lighting in offices.				
IT EQUIPAM	NO GAYLIT AREAS				Designed V	wridge: Condition	led Spaces 1 03 04 05 06 07 08 01	9 10	Aftered Lighting System		
					1000	W. C. W. D. D. S. S. S.		End become	Total Area of Work (h ²)	215.	-
					Name or	Complete Lumin	are Description Modular Small Aperture Watts per How Wattage is Total number Exempt per		Total Area of Work (ft²)	an 0	
	ALLOWANCE: COMPLETE BUILDING OR AREA O			9	F1	LEDS		Pats Fait	C. COMPLIANCE RESULTS		6
Table instructions: Comp	repliete the table for each area complying using the Co (c) or adjustments per \$140.66n) are being used.	mplete Building or Area Category Method	ds per <u>\$140.676</u> ; indicate if additional is	ighting power	*1	LEDS	Total Designed Watts CONDITIONED SPACES: 16			"COMPLIES with Exceptional Conditions" refer to Table D. for guidance.	-
Conditioned Spaces	tal or separately per \$1.51.2001 are being used.		2-10-10-10-10-10-10-10-10-10-10-10-10-10-				FOLSE DESIGNED WHITE CONDITIONED SPACES: 16		Allowed Lighting Power per \$140.6		Compliance Results
01	82	03	04 05	06	*FOOTNOT	F: Design Worts fo	r small aperture and color changing luminaires which qualify per \$140.6(c)48 is adjusted to Be 75% of liber rated wattage.	Table Fautomatically	Lighting in 01 02 03	04 05 06 07 08	09
approximation	Complete Building or Are	Allowed	Allowed Addition	onal Allowances /	makes this	adjustment, the pr	rmit applicant should enter full rated wattage in column 05.		unconditioned Area Category	allored Adjustments Total Adjusted	-
Area Descriptio	tion Complete Building or Are		(m/) Wettage	Adjustment			ency ask for Luminaire cut sheets to confirm wattage used for compliance per \$130.00; Wattage used must be the maxim	num rated for the		Slored Total Allowed Designed Credits (Watto)	05 Must be 108
		(W/ħ²)	(Marriel Marriel Cate)	gary PAS	Standard,	not the lump.				(+) (Watts) (Watts) \$140,6662 "Includes	\$140.6
IT 8M.	General Commercial and Industri	H Work - Frecision 0.85	235 199.75 □ 235 199.75 See Table		G. MODU	LAR LIGHTING ST	STIMS	6	8140.60h/L	(-) Adjustments	
-		TOTAL	235 199,75 569 (30)	nes I or P for detail		Does Not Apply				Table K) (See Table F) (See Table F)	
									Conditioned: 199.75	- 199.75 2 168 - 168	COMPLIES
					H. INDOO	R LIGHTING CON	TROLS (Not including PAFs)	(a)	Table Continued		
CA Building Energy Efficien	ency Standards - 2019 Noireesidential Compliance: http://e	eox.anmigs.ca.gov/10th/24/2015/standards		January 2020	CA Suitifreg	Trengy Efficiency Sta	ndards - 2019 Nonresidential Compliance: http://www.socops.ca.gov/stle24/2013dasslards	January 2020	CA Suitibing Energy Efficiency Standards - 2019 Novresidential Compliance: (Lt.)	u.//www.stratigu.co.gov/titis/3/2010standards	January 2020
Indoor Lighting MCC 4714 (Created 61/20) ECERTIFICATE OF COMPL	9		CALFORNIA (MING) C	NACCA TIA	MRCC 4714 9	Lighting		INERCY COMMISSION	Indoor Lighting Indoor Lighting INCE THE Environ BUILDS SCREENANT OF COMPLIANCE	CALADINAL MINO	NACC-LTI-E
Project Name: DISPA	ATOM BENADOES	Report Page:		Page 6 of 6		me: DISPATCH		Page 5 of 6	Project Name: DISPATCH REMODEL		
Project Address: NEVAC	NOA CITY, CA	Date Prepared			Project Ad	dresi: NEVADA CI	Fr, CA Date Preparest			Report Page:	Page 4 of 6
DOCUMENTATION AS				7/1/2020				7/1/2020	Project Address: NEVADA CITY, CA	Report Page: Oate Prepared:	Page 4 of 6 7/1/2020
		posterior		7/1/2020			And have made board as information and other to exercise table of the decreased from outsides count to be absenced as	971/2020		Date Prepared:	Fage 4 of 6 7/1/2020
	NUTHOR'S DECLARATION STATEMENT			1/1/2020	Fable Insti	uctions: Selections (ditional Armarks	have been made based on information provided in previous tables of this document. If any selection needs to be changed, p. These documents must be previded to the building inspector during construction and can be found online at https://invit.org/	7/1/2020 please explain why in	Project Address: NEVADA CITY, CA J. ADDITIONAL LIGHTING ALLOWANCE: AREA CATEGORY METH This Section Does Not Apply	Date Prepared:	Page 4 of 6 7/1/2020
certify that this Certific	ficate of Compliance documentation is accurate and co	mplete		1/1/2020	Fable Insti	uctions: Selections (ditional Armarks	have been made based on information provided in previous tables of this document. If any selection needs to be changed, a These documents must be provided to the building inspector during construction and can be found online at <a box2.en.compliance.googleps.compliance.googl<="" href="https://documents.org/documents/fibross/selection_Documents/fibross/selec</td><td>7/1/2020
please explain why in</td><td>J. ADDITIONAL LIGHTING ALLOWANCE: AREA CATEGORY METH
This Section Does Not Apply</td><td>Date Programs: DO QUALIFYING LIGHTING SYSTEM</td><td>Page 4 of 6
7/1/2020</td></tr><tr><td>Contify that this Certific Documentation Author</td><td>Scate of Compliance documentation is accurate and co
in Name: MEG HOBBS</td><td>mplets Occumentation Author Signat</td><td>12.403/1/47-514</td><td>Frursessi
EE</td><td>Fable Institution E. A.
Sable E. A.</td><td>uctions: Selections
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19(tondards/2015)</td><td>These documents must be previded to the building impector during construction and can be found online at <td>7/1/2020 please explain why in</td><td>ADDITIONAL LIGHTING ALLOWANCE: AREA CATEGORY METH This Section Don Not Apply E. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE</td><td>Date Programs: DO QUALIFYING LIGHTING SYSTEM</td><td>9ACC-1714 Fage 4 of 6 7/1/2020</td>	7/1/2020 please explain why in	ADDITIONAL LIGHTING ALLOWANCE: AREA CATEGORY METH This Section Don Not Apply E. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE	Date Programs: DO QUALIFYING LIGHTING SYSTEM	9ACC-1714 Fage 4 of 6 7/1/2020
consify that this Certific Documentation Author Company:	Scale of Compliance documentation is accurate and co r Name: MEG INCRES SPECTRAL ENGINEERING	Occumentation Author Signal Signature Date:	7/2/2020	7/1/2026	Fable Insti	uctions: Selections (ditional Armarks	These documents must be previded to the building inspector during construction and can be found online at https://erw2.co	1/1/2020 please explain why in mergu.ca.gos/	J. ADDITIONAL LIGHTING ALLOWANCE: AREA CATEGORY METH This Section Does Not Apply	Date Programs: DO QUALIFYING LIGHTING SYSTEM	Page 4 of 6 7/1/2020
consily that this Certific Documentation Author Company: Address:	Scale of Compliance documentation is accurate and or in Name: AMEG HOBBS SPECTRAL ENGINEERING PO BOX 154	Occurrentation Author Signat Signature Date: CEA/ HERS Certification Identi	7/2/2020 Iffication (if applicable): N	7/1/2026	Fable Institution E. A. Sable E. A.	vetions: Selections delicional Remarks. 15/standards/2015 MO	These documents must be previded to the building impector during construction and can be found online at				

Indoor Lighting

NOTE: QUANTITIES OF LIGHT FIXTURES OR OTHER DEVICES SHOWN IN THESE FORMS SHALL NOT BE USED FOR BIDDING PURPOSES.

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NEVADA COUNTY YOUTH CENTER DISPATCH REMODEL

AS NOTED CHECKED BY: MLH

> TITLE 24 LIGHTING

SUBMITTAL STAMP
RE—SUBMITTAL
#1
DATE: 09—08—2020

E5.1

Project Name: Nevada County Juvinile Hall Server Addition NRCC-PRF-01-E Page 1 of 13	Project Name: Nevada County Juvinile Hall Server Addition NRCC-PRF-01-E Page 5 of 13	Project Name: Nevada County Juvinile Hall Server Addition NRCC-PRF-01-E Page 9 of 13	Project Name: Nevada County Juvinile Hall Server Addition NRCC-PRF-01-E Page 13 of 13
Project Address: 15434 Hwy. 49 Nevada City 95959 Calculation Date/Time: 15:12, Fri, Mar 13, 2020 Input File Name: Nevada County Juvinile Hall Server Addition - 20025.cibd19x	Project Address: 15434 Hwy. 49 Nevada City 95959 Calculation Date/Time: 15:12, Fri, Mar 13, 2020 Input File Name: Nevada County Juvinile Hall Server Addition - 20025.cibd19x	Project Address: 15434 Hwy. 49 Nevada City 95959 Calculation Date/Time: 15:12, Fri, Mar 13, 2020 Input File Name: Nevada County Juvinile Hall Server Addition - 20025.cibd19x	Project Address: 15434 Hwy. 49 Nevada City 95959 Calculation Date/Time: 15:12, Fri, Mar 13, 2020 Input File Name: Nevada County Juvinile Hall Server Addition - 20025.cibd19x
A. GENERAL INFORMATION	K1. Dry System Equipment (furnaces, air handling units, heat pumps, VRF, etc.)	O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION	DOCUMENTATION AUTHOR'S DECLARATION STATEMENT § 10-103
1. Project Location (city) Nevada City 8. Standards Version Compliance 2019 2. CA Zip Code 95959 9. Compliance Software (version) EnergyPro 8.0	Dry System Equipment ¹ (Fan & Economizer info included below in Table N) 1 2 3 4 5 6 7 8 9 10	Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents bust be retained and provided to the building inspector during construction and can be found online at:	Documentation Author Name: Chris Miller Company: MELAS ENERGY ENGINEERING Signature:
3. Climate Zone 11 10. Weather File MARYSVILLE-BEALE-AFB_724837_CZ2010.epw 4. Total Conditioned Floor Area in Scope 237 ft2 (237 ft2 Building Total) 11. Building Orientation (deg) (N) 0 deg	Equipment Name Equipment Type Qty Total Heating Output Supp Heat Source Supp Heat Output Efficiency Total Cooling Efficiency Supp Heat Output Supp He	https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/ Building Component	Address: 547 Uren St. Signature Date: 2020-03-13 City/State/Zip: Nevada City CA 95959 CEA/ HERS Certification Identification (if applicable):
5. Total Unconditioned Floor Area 0 ft ² 12. Permitted Scope of Work NewEnvelopeAndMechanical 6. Total # of Stories (Habitable Above Grade) 1 13 Building Type(s) Nonresidential	KBtu/h) (kBtu/h) (kBtuh) Efficiency Output (kBtu/h) Efficiency Server3 Exhaust (NA) 1 0 No 0 NA 0 NA N	Pass Fail	6D6E-3177-3AC2-8FC0-4F54-7F61-DDFF-CAE4-CAC8-CC68-D2CF-D076-9F4F-E389-B8EF-0001 Phone: 530 265-2492
7. Total # of dwelling units 0 14 Gas Type NaturalGas	HVAC MiniSplitHP (Split1Phase) 1 18 Yes 10 HSPF-8.200 15 SEER-14.000 / EER-11.700 N	Covered Process	RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California:
B. PROJECT SUMMARY	¹ Status: N - New, A - Altered, E - Existing K2. ECONOMIZER & FAN SYSTEMS SUMMARY §140.4 ¹	Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification	1. The information provided on this Certificate of Compliance is true and correct. 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
Table Instructions: Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within permit application. Building Components Complying via Performance Building Components Complying Prescriptively	1 2 3 4 5 6 7 8 9 10 11 12 13	Provider (ATTCP). For more information visit:https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/ Field	 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,
☑ Performance ☐ Performance The following building components are ONLY eligible for prescriptive Covered Process: Commercial compliance and should be documented on the NRCC form listed if within the	System Type Design OA Supply Fan Return Fan Economizer Type System Type Design OA Supply Fan Packaged, DOAS, DOAS, CFM CFM BHP Watts Control CFM BHP Watts Control CFM	Building Component YES NO Form/Title Inspector Pass Fail	plans and specifications submitted to the enforcement agency for approval with this building permit application. 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.
Envelope Not Included	etc. 3.00 <th< td=""><td>Envelope NRCA-ENV-02-F - NRFC label verification for fenestration </td><td>Responsible Envelope Designer Name: Russell Davidson Company: Russell Davidson Architecture & Design</td></th<>	Envelope NRCA-ENV-02-F - NRFC label verification for fenestration	Responsible Envelope Designer Name: Russell Davidson Company: Russell Davidson Architecture & Design
Mechanical Performance Covered Process: Computer Rooms Performance Indoor Lighting (Unconditioned)§140.6 NRCC-LTI -E is required Not Included Outdoor Lighting §140.7 NRCC-LTO-E is required	Status: N - New, A - Altered, E - Existing		Address: 149 Crown Point Ct., Suite A Date Signed:
Domestic Hot Water Performance	K3. EXHAUST FAN SUMMARY 1 2 3 4 5 6 7		City/State/Zip: Grass Valley CA 95945 Phone: 530 913-2370 Title: License #: C36895
Electrical power systems, commissioning and solar ready requirements are mandatory and should be documented on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)	System ID Zone Name Qty CFM Motor BHP Motor Watts Total Static Pressure (in H20) Server3 1-Server 1 30 0.016 14.0 2.20		Responsible Lighting Designer Name: Jo Garst Company: Garst Design Signature: NOT IN SCOPE
Not Included Electrical Power Distribution S110.11 NRCC-ELC-E is required Commissioning S120.8 NRCC-CXR-E is required	K4. Wet System Equipment (boilers, chillers, cooling towers, etc.)		Address: 101 W. McKnight Way Suite B #178 Date Signed: City/State/Zip: Grass Valley CA 95949 Declaration Statement Type:
Solar Thermal Water Heating Not Included Solar Ready \$110.10 NRCC-SRA-E is required	1 2 3 4 5 6 7 8 9 10 11 12 Name or Item Tag		Phone: 612 237-7332 Title: License #: Responsible Mechanical Designer Name: Michael Melas
	(kBtu/h) Status: N - New, A - Altered, E - Existing		Company: Melas Energy Engineering Address: 547 Uren St. Date Signed:
			City/State/Zip: Nevada City CA 95959 Declaration Statement Type:
			Phone: 530 265-2492 Title: License #: M26789
CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-03042020-6104 Report Generated at: 2020-03-13 15:13:16	CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-03042020-6104 Report Generated at: 2020-03-13 15:13:16	CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-03042020-6104 Report Generated at: 2020-03-13 15:13:16	CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-03042020-6104 Report Generated at: 2020-03-13 15:13:16
Project Name: Nevada County Juvinile Hall Server Addition NRCC-PRF-01-E Page 2 of 13	Project Name: Nevada County Juvinile Hall Server Addition NRCC-PRF-01-E Page 6 of 13	Project Name: Nevada County Juvinile Hall Server Addition NRCC-PRF-01-E Page 10 of 13	
Project Address: 15434 Hwy. 49 Nevada City 95959 Calculation Date/Time: 15:12, Fri, Mar 13, 2020 Input File Name: Nevada County Juvinile Hall Server Addition - 20025.cibd19x	Project Address: 15434 Hwy. 49 Nevada City 95959 Calculation Date/Time: 15:12, Fri, Mar 13, 2020 Input File Name: Nevada County Juvinile Hall Server Addition - 20025.cibd19x 15:12, Fri, Mar 13, 2020	Project Address: 15434 Hwy. 49 Nevada City 95959 Calculation Date/Time: 15:12, Fri, Mar 13, 2020 Input File Name: Nevada County Juvinile Hall Server Addition - 20025.cibd19x 15:12, Fri, Mar 13, 2020	
C1. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft ²-yr)	K5. SYSTEM FEATURES §120.2 1 2 3 4 5 6	P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Acceptance must be submitted for the features to be recognized for	
COMPLIES Energy Component Standard Design (TDV) Proposed Design (TDV) Compliance Margin (TDV) ¹	System Name Optimum Start Window Interlocks per \$140.4(n) Evaporative Cooling Heat Recovery Other Controls	compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit:https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/	
Space Heating 6.98 20.52 -13.54	Res DHW1 - SHW NA NA NA NA Fixed Temperature Control, No DDC Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.	Building Component YES NO Form/Title Field Inspector	
Indoor Fans 122.68 6.50 116.18	K6. MECHANICAL VENTILATION AND REHEAT §120.1	Pass Fail NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH02-A can be	
Heat Rejection Pumps & Misc.	1 2 3 4 5 6 7 8 9 Mechanical Ventilation DCV or Occupant	performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap	
Domestic Hot Water 28.44 98.40 -69.96 Indoor Lighting 18.62 18.62	Zone Name Ventilation Function # hotel rooms # of people bedrooms # of people bedrooms Supply OA CFM Exhaust CFM Area (sf) Sensor Controls, or Both	⊠ NRCA-MCH-03-A Constant Volume Single Zone HVAC □ □ ⊠ NRCA-MCH-04(a)-H Air Distribution Duct Leakage - HERS Verification required □	
ENERGY STANDARDS COMPLIANCE TOTAL 255.40 195.85 59.55 (23.3%) 1 Notes: The number in parenthesis following the Compliance Margin in column 4. represents the Percent Better than Standard.	1-Server General - Unoccupied 0 0.36 0 0 30 237 NA	□ NRCA-MCH-04(b)-A Air Distribution Duct Leakage - ATT only □ □ X NRCA-MCH-05-A Air Economizer Controls □	
C2. RESULTS FOR 'ABOVE CODE' QUALIFICATIONS ¹	K7. DISTRIBUTION SUMMARY §120.4/140.4(I) 1 2 3 4 5	NRCA-MCH-06-A Demand Control Ventilation Systems Acceptance must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints	
☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2	Dry System Distribution	□ NRCA-MCH-07-A Supply Fan Variable Flow Controls	
Miscellaneous Energy Component Standard Design (TDV) Proposed Design (TDV) Compliance Margin (TDV) ¹ Receptacle 200.72 200.72 0.0	Duct Leakage Verification Y/N Insulation R-Value Location HVAC No 8 Ductless N	Mechanical NRCA-MCH-08-A Valve Leakage Test NRCA-MCH-09-A Supply Water Temperature Reset Controls	
Process	1 Status: N - New, E - Existing Multifamily or Hotel/Motel Occupancy? (if "Yes", see DOMESTIC/SERVICE HOT WATER SYSTEM SUMMARY) No	□ NRCA-MCH-10-A Hydronic System Variable Flow Controls □ □ NRCA-MCH-11-A Automatic Demand Shed Controls □	
Process Motors COMPLIANCE TOTAL PLUS MISCELLANEOUS COMPONENTS 456.12 396.57 59.6 (13.1%)	Does the Project include Zonal Systems? Yes	□ NRCA-MCH-12-A FDD for Packaged Direct Expansion Units □ □ NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance □	
¹ Notes: This table is used to document compliance with programs OTHER THAN Title 24 Part 6, if applicable.	K8. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY § 140.4	□ NRCA-MCH-14-A Distributed Energy Storage DX AC Systems Acceptance □ □ NRCA-MCH-15-A Thermal Energy Storage (TES) System Acceptance □	
D. EXCEPTIONAL CONDITIONS This project includes partial performance compliance scope options. The building must show compliance with all other applicable compliance scope options (performance or prescriptively) before	1 2 3 4 5 6 7 8 9 10 11 12 Rated Capacity Airgun (fp.)	□ □ NRCA-MCH-16-A Supply Air Temperature Reset Controls □ □ □ □ NRCA-MCH-17-A Condenser Water Temperature Reset Controls □ □	
occupying.	System ID Zone Name System Type (kBtuh) Airriow (cfm) Fan System ID Zone Name System Type (kBtuh) Min. BUD Mother Codes ECM	□ □ NRCA-MCH-18 Energy Management Control Systems □ □ □ □ NRCA-MCH-19 Occupancy Sensor Controls □ □	
E. HERS VERIFICATION This Section Does Not Apply	HVAC 1-Server MiniSplitHP 18.00 15.00 547 NA NA 0.032 27.9 ☑ □		
CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-03042020-6104 Report Generated at: 2020-03-13 15:13:16	CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-03042020-6104 Report Generated at: 2020-03-13 15:13:16	CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-03042020-6104 Report Generated at: 2020-03-13 15:13:16	
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Input File Name: Nevada County Juvinile Hall Server Addition - 20025.cibd19x F. ADDITIONAL REMARKS	Input File Name: Nevada County Juvinile Hall Server Addition - 20025.cibd19x K9. EVAPORATIVE COOLER SUMMARY	Input File Name: Nevada County Juvinile Hall Server Addition - 20025.cibd19x P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE	
This Section Does Not Apply	This Section Does Not Apply	Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Acceptance must be submitted for the features to be recognized for	
G. ENVELOPE GENERAL INFORMATION	L. DOMESTIC/SERVICE HOT WATER SYSTEM SUMMARY	compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit:https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/ Field	
1 2 3 4 Opaque Surfaces & Orientation Total Gross Surface Area (ft²) Total Fenestration Area (ft²) Window to Wall Ratio (%)	L1. DHW EQUIPMENT SUMMARY	Building Component YES NO Form/Title Inspector Pass Fail	
North-Facing¹ 148 ft² 0 ft² 00.0% East-Facing² 230 ft² 0 ft² 00.0%	1 2 3 4 5 6 7 8 9 10 11 DHW Name Heater Element Tank Type Qty (call) (1800 (1800)) Tank Vol Rated Input (1800) (1800) Tank Insulation R-value R-value (1800) R-value Ffficiency R-value (1800)	□ □ NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls □ □ □ NRCA-LTI-03-A - Automatic Daylight Controls □	
South-Facing³ 139 ft² 0 ft² 00.0% West-Facing⁴ 269 ft² 0 ft² 00.0%	Type Gall (kBtu/h) Condition Type Condition Condition	Indoor Lighting NRCA-LTI-04-A - Demand Responsive Lighting Controls NRCA-LTI-05-A - Institutional Tuning Power Adjustment Factor (PAF)	
Total 786 ft² 0 ft² 00.0% Roof 237 ft² 0 ft² 00.0%	L2. MULTI-FAMILY CENTRAL DHW SYSTEM DETAILS	Outdoor Lighting 🛛 🖂 NRCI-LTO-01-E - Must be submitted for all buildings	
Notes: 1 North-Facing is oriented to within 45 degrees of true north, including 45°00'00" east of north (NE), but excluding 45°00'00" west of north (NW).	This Section Does Not Apply	Sign Lighting	
² East-Facing is oriented to within 45 degrees of true east, including 45°00'00" south of east (SE), but excluding 45°00'00" north of east (NE). ³ South-Facing is oriented to within 45 degrees of true south, including 45°00'00" west of south (SW), but excluding 45°00'00" east of south (SE).	L3. SOLAR HOT WATER HEATING SUMMARY This Section Does Not Apply	□ NRCA-PRC-03-F - Garage Exhaust	
⁴ West-Facing is oriented to within 45 degrees of true west, including 45°00′00" north of due west (NW), but excluding 45°00′00" south of west (SW). H. FENESTRATION ASSEMBLY SUMMARY §110.6	M. COVERED PROCESS SUMMARY §140.9	NRCA-PRC-04-F - Refrigerated Warehouse - Evaporator Fan Motor Controls	
This Section Does Not Apply	This Section Does Not Apply	□ NRCA-PRC-06-F - Refrigerated Warehouse - Air Cooled Condenser Controls □ □ NRCA-PRC-07-F - Refrigerated Warehouse - Variable Speed Compressor □	
I. ENVELOPE DETAILS §120.7 & §140.3 II. OPAQUE SURFACE ASSEMBLY SUMMARY	N. INDOOR LIGHTING SUMMARY §140.6 This Section Does Not Apply	□ □ NRCA-PRC-08-F - Electrical Resistance Underslab Heating System □ □ □ □ NRCA-PRC-15-F - Fume Hood Automatic Sash Closures System □ □	
1 2 3 4 5 6 7 8 9 Surface Name Surface Type Description of Assembly Layers Area (ft²) Framing Cavity Continuous U-Factor / F-Factor of Assembly Layers Description of Assembly Layers Des		□ ☑ NRCA-PRC-16-A - Adiabatic Condensers □ □	
Slab Type = UnheatedSlabOnGrade			
Slab On Grade7 UndergroundFloor Insulation Orientation = None 237 NA 0 NA F-Factor: 0.730 N Insulation R-Value = R0			
CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-03042020-6104 Report Generated at: 2020-03-13 15:13:16	CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-03042020-6104 Report Generated at: 2020-03-13 15:13:16	CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-03042020-6104 Report Generated at: 2020-03-13 15:13:16	
Project Name: Nevada County Juvinile Hall Server Addition NRCC-PRF-01-E Page 4 of 13	Project Name: Nevada County Juvinile Hall Server Addition NRCC-PRF-01-E Page 8 of 13	Project Name: Nevada County Juvinile Hall Server Addition NRCC-PRF-01-E Page 12 of 13	
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I. ENVELOPE DETAILS §120.7 & §140.3	O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION	Q. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION	
11. OPAQUE SURFACE ASSEMBLY SUMMARY 1 2 3 4 5 6 7 8 9	Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents bust be retained and provided to the building inspector during construction and can be found online at:	Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents bust be retained and provided to the building inspector during construction and can be found online at:	
Surface Name Surface Type Description of Assembly Layers Area (ft²) Framing Type Cavity R-Value U-Factor / F-Factor / C-Factor	https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/ Field Building Component YES NO Form/Title Inspector	https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCV/ Field Inspector	
Asphalt shingles - 1/4 in. Vapor permeable felt - 1/8 in. Plywood - 1/2 in.	Pass Fail	Building Component YES NO Form/Title Inspector Pass Fail	
R-19 Roof Cathedral9 Roof Air - Cavity - Wall Roof Ceiling - 4 in. or more 237 Wood 19 NA U-Factor: 0.050 N	Mechanical ☐ NRCI-MCH-01-E - Must be submitted for all buildings ☐ ☐	□ □ NRCV-MCH-04-H Duct Leakage Test □ □ □	
Wood framed roof, 16in. OC, 7.25in., R-19 Gypsum Board - 1/2 in.	□ NRCI-PLB-01-E - Must be submitted for all buildings □ □ □ NRCI-PLB-02-E - Must be submitted for high-rise residential and hotel/ motel central hot water distribution □ □ systems to be recognized for compliance □ □ □	□ ■ NRCV-MCH-27 Indoor Air Quality & Mechanical Ventilation □ □ □ □ ■ NRCV-MCH-32-H Local Mechanical Exhaust □ □ □ □	
Concrete - Part Grouted and Empty - 125 Ib/ft3 - 8 in.	systems to be recognized for compliance Plumbing NRCI-PLB-01-E - Must be submitted for all buildings	Plumbing	
Wood framed wall, 16in. OC, 3.5in., R-13 Gypsum Board - 1/2 in.	NRCI-PLB-21-E - Must be HERS verified for central systems in high-rise residential hotel/ motel application	D. LINMET LOAD HOURS	

□ ☑ NRCI-PLB-22-E - Must be HERS verified for single dwelling unit systems in high-rise residential, hotel/motel application

□ ☑ NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS) to be recognized for compliance

supplementary overcurrent protection panel used to energize only line-voltage track lighting, to be recognized for compliance

NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance

□ □ NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance

NRCI-LTI-03-E - Must be submitted for a line-voltage track lighting integral current limiter, or for a

☐ NRCI-LTI-01-E - Must be submitted for all buildings

NRCI-LTO-01-E - Must be submitted for all buildings

□ □ NRCI-ELC-01-E - Must be submitted for all buildings
 □ □ NRCI-SPV-01-E - Must be submitted for all buildings

□ NRCI-LTO-02-E - Must be submitted for EMCS Lighting Control system

Indoor Lighting

Outdoor Lighting

Report Generated at: 2020-03-13 15:13:16 CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-03042020-6104

Status¹

This Section Does Not Apply

Report Generated at: 2020-03-13 15:13:16 CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-03042020-6104

Report Generated at: 2020-03-13 15:13:16

Status: N - New, A - Altered, E - Existing

12. OVERHANG DETAILS

This Section Does Not Apply

13. OPAQUE DOOR SUMMARY

This Section Does Not Apply

Assembly Name Insulated Metal Door15

J. CRRC ROOFING PRODUCT SUMMARY S140.3

K. HVAC SYSTEM SUMMARY §110.1 & §110.2

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-03042020-6104

Overall U-factor

ENGINEERING ENERGY & MECHANICAL CONSULTANTS 547 UREN STREET NEVADA CITY, CA 95959



ENVELOPE

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PHONE (530) 265-2492

15434 CA-49
NEVADA CITY, CA
TITLE-24 ENERGY REPORT
SERVER ROOM ADDITION MECHANICAL & JUVENILE HALL Revisions: By: Description: No. Date: Plot Date: 20-025 Job# Scale Issued Sheet Number T24-1

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PROJECT SCOPE In the specified project principle with \$140.28.6 is documented in Table 1. This is the only prescriptive requirement which applies to unconditioned agazes. PROJECT SCOPE In the specified project principle of the destroy. In the specified project principle of the specified principle of the spe	https: and p signs O(a)1 and Y O(a)2 and p signs Y O(a)1 and Y O(a)2 and p signs Y O(a)2 and O(a)3 and O(a)4 and O(a)5 and O(a)6 and O(a)6 and O(a)6 and O(a)7 and O(a)8 and O(a)8 and O(a)9 and O(a)9 and O(a)9 and O(a)1 and O(a)1 and O(a)2 and O(a)3 and O(a)3 and O(a)4 and O(a)5 and O(a)6 and O(a)6 and O(a)7 and O(a)8 and O(a)9	tration Number: In tratio
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FOOTNOTES: Wall types indicated above as "(new only)" do not have Title 24, Part 6 requirements for alterations. New construction and additions do have requirer icked above and compliance demonstrated within this table. Registration Number: Registration Date/Time: Registration Date/Time: Registration Date/Time: Registration Part Version: 2019.0.001 Report Generated: Schema Version: rev 20190401 ATE OF CALIFORNIA nvelope Component Approach ICC-ENV-E CALIFORNIA EISTIFICATE OF COMPLIANCE OJect Name: Nevada County Juvinile Hall Window Alteration Report Page:	g Home (new only)	
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	NERGY COMMISSION NRCC-ENV-E	
oject Address: 15434 Hwy. 49 Date Prepared:	(Page 3 of 5) 3/13/2020	
FLOOR ASSEMBLY SCHEDULE		
nis section does not apply to this project.		
EXTERIOR DOOR SCHEDULE		
nis section does not apply to this project.		
FENESTRATION AND GLAZED DOOR SCHEDULE is table demonstrates compliance with prescriptive fenestration requirements in §140.3(a)5 for new constructions or additions, or §140.1(b)2A for alterations. Ex	terior doors that are	
ore than one-half glass in area are considered Glazed Doors and should be documented on this table with fenestration. 01 Indicate fenestration types included in the project: Vertical (alterations) Vertical (new) Skylights Glaze	d Doors (new only)	
FOOTNOTES: Floor types indicated above as "(new only)" do not have Title 24, Part 6 requirements for alterations. New construction and additions do have required icked above and compliance demonstrated within this table.	ments and should be	
ertical Fenestration- U-factor, Solar Heat Gain Coefficient (RSHGC/ SHGC), Visible Transmittance (VT) 01		
02 Calculate Area-Weighted Average (R)SHGC for Vertical Fenestration ¹		
03 ☑ Calculate Area-Weighted Average VT for Vertical Fenestration¹ 04 05 06 07 08 09 10 11	12 13	
	Product erformance Area ft ²	
	per Design	
06 280.4 07 115 08 11.6 09 0		
OS 09 0 0 0 0 0 0 0 0		
Do not include demising walls per <u>§140.3(a)5</u> .		
Includes glazed door fenestration area .		
Registration Number: Registration Date/Time: Registration		

STATE OF CALIFORNIA **Envelope Component Approach** CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE Nevada County Juvinile Hall Window Alteration Report Page: 15434 Hwy. 49 Date Prepared:

(Page 4 of 5) 3/13/2020 L. DAYLIGHT IN LARGE ENCLOSED SPACES This section does not apply to this project.

M. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by the permit applicant, an explanation should be included in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/ Field Inspector Pass Fail

NRCI-ENV-01-E - Must be submitted for all buildings

N. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, form user must provide an explanation in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at

https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/. Indivudals who perform the field testing and verification work, and provide the information required for completion of the fenestration Certificate of Acceptance documentation are not required to be licensed professionals. However, the person who signs the Certificate of Acceptance document to certify compliance with the acceptance requirements shall be licensed as specified in Standards Section 10-103(a)4 and NA7.3.1 Form/Title Pass Fail NRCA-ENV-02-F must be submitted for all new, added or altered fenestration.

Registration Number: Registration Date/Time: Registration Provider: EnergySoft

Report Version: 2019.0.001

Schema Version: rev 20190401

CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-ENV-E Nevada County Juvinile Hall Window Alteration Report Page: (Page 5 of 5) 3/13/2020

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT Documentation Author Name: cumentation Author Signature: Chris Miller MELAS ENERGY ENGINEERING 547 Uren St. 6D6E-3177-3AC2-8FC0-4F54-7F61-DDFF-CAE4-CAC8-CC68-D2CF-D076-9F4F-E389-B8EF-

RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct. 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer) 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirement of Title 24, Part 1 and Part 6 of the California Code of Regulations.

530 265-2492

4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Kull D___ Russell Davidson Russell Davidson Architecture & Design 149 Crown Point Ct., Suite A C36895 530 913-2370 Grass Valley CA 95945

Registration Number: Registration Date/Time: Registration Provider: EnergySoft Report Version: 2019.0.001 Report Generated: 2020-03-13 15:08:50 CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Schema Version: rev 20190401

ENGINEERING ENERGY & MECHANICAL CONSULTANTS 547 UREN STREET NEVADA CITY, CA 95959 PHONE (530) 265-2492 FAX (53Ø) 265-2273

NRCC-ENV-E

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ALTERATION ENVELOPE

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15434 CA-49
NEVADA CITY, CA
TITLE-24 ENERGY REPORT
DISPATCH & OFFICES WINDOW NC JUVENILE HALL Revisions: By: Description: Plot Date: 20-025 Job# Scale Issued By

T24-2

Sheet Number