

PROJECT VICINITY MAP PROJECT LOCATION (3)

TYPICAL NOTES

- SIMILAR MEANS COMPARABLE CHARACTERISTICS FOR THE CONDITIONS NOTES. VERIFY DIMENSIONS AND/OR ORIENTATIONS ON PLANS AND/OR ELEVATIONS.
- DIMENSIONS ARE NOT ADJUSTABLE WITHOUT APPROVAL OF ARCHITECT IN WRITING.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ARCHITECT OF ANY CONFLICTS HEREIN, EITHER APPARENT OR OBVIOUS. PRIOR TO START OF WORK ON THAT ITEM OR BEAR THE RESPONSIBILITY OF CORRECTING SUCH WORK AS DIRECTED BY THE ARCHITECT AND AT NO ADDITIONAL COST AND NO TIME EXTENSION OF THE PROJECT.
- UNDERCUT ALL DOORS TO CLEAR TOP OF FLOOR FINISH AND/OR THRESHOLD 1/4 INCH MAXIMUM AND IN COMPLIANCE WITH RATED DOOR/FRAME GUIDELINES.
- USE WATER RESISTANT / GLASS FIBER FACED GYPSUM WALLBOARD ON ALL WALL FACES WHICH ARE EXPOSED TO WATER OR MOISTURE AS WELL AS THOSE USED FOR JANITOR, TOILET AND SHOWER WALLS, COORDINATE WITH SPECIFICATIONS.
- SEE DRAWINGS AND DETAILS FOR TYPICAL NOTES.

CONTRACTOR RESPONSIBILITIES

- THE CONTRACTOR SHALL EXAMINE THE DRAWINGS AND SPECIFICATIONS AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES FOUND PRIOR TO PROCEEDING WITH THE WORK IN UNCERTAINTY
- THE CONTRACTOR SHALL VERIFY CONDITIONS AT THE SITE AND REPORT ANY DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE
- THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT PRIOR TO ANY EXCAVATING
- THE CONTRACTOR SHALL COORDINATE THE REMOVAL, ABANDONMENT AND/OR LOCATIONS OF EXISTING UTILITIES ABOVE OR BELOW GRADE WITH THE RESPECTIVE UTILITY COMPANIES.
- THE CONTRACTOR SHALL PERFORM ALL WORK WITHIN STREET RIGHT-OF-WAYS ACCORDING TO THE APPROVED STANDARD PLANS AND SPECIFICATIONS OF THE AGENCY HAVING JURISDICTION.
- THE CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT FOR ALL WORK IN CITY ROAD.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACES, SHORES, AND GUYS REQUIRED TO SUPPORT ALL LOADS TO WHICH THE BUILDING STRUCTURES AND COMPONENTS, ADJACENT SOILS AND STRUCTURES, UTILITIES AND RIGHT-OF-WAYS MAY BE SUBJECT DURING CONSTRUCTIONS
- FLOOR AND WALL OPENINGS, SLEEVES, VARIATIONS IN THE STRUCTURAL SLAB ELEVATIONS, DEPRESSED AREAS AND ALL OTHER ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, AND/OR CIVIL REQUIREMENTS MUST BE COORDINATED BEFORE THE CONTRACTOR PROCEEDS WITH THE

PROJECT TEAM

<u>OWNER</u>

COUNTY OF NEVADA **FACILITIES SERVICE CENTER** 10014 N. BLOOMFIELD RD. NEVADA CITY, CA 95959

ARCHITECT

WALLIS DESIGN STUDIO ARCHITECTS 120 RICHARDSON ST, SUITE 8 GRASS VALLEY, CA 95945

ROBERT WALLIS, AIA (530) 264-7010

robert.wallis@wdsa.us

MECHANICAL & ENERGY CONSULTANT

MELAS ENERGY ENGINEERING 547 UREN STREET NEVADA CITY, CA 95959

MICHAEL MELAS (530) 265-2492

michael@melasenergy.com

ELECTRICAL CONSULTANT

UP-LIGHT ELECTRICAL ENGINEERING, INC. 3130 TWITCHELL ISLAND ROAD WEST SACRAMENTO, CA 95691

JIM PUGA

(916) 371 - 3202 JPUGA@UPLIGHTEE.COM

220551

JOB SET

LOCATION: 10988 COMBIE RD. SUITE 108 & 110, AUBURN, CA 95602

PROJECT CONSISTS OF:

TENANT IMPROVEMENT FOR 1ST FLOOR MINOR SITE IMPROVEMENTS INCLUDING ADA PATH OF TRAVEL & PARKING

OCCUPANT LOAD: **FIXED SEATING** 1:50 MAIN LIBRARY 1:50 CHILDREN'S SECTION 1:50 CONFERENCE ROOM 1:15 184 SF 13

46 (LESS THAN 49) **TOTAL LIBRARY** SHERIFF'S OFFICE 1:150 130 SF 1

TOTAL IMPROVEMENT OCCUPANCY

TYPE OF CONSTRUCTION: TYPE VB

FIRE SPRINKLERS: LIBRARY AREA:

SHERIFF AREA: **TOTAL PROJECT AREA:** 2,631 SF

LIBRARY CONSTRUCTION AND RENOVATION ACT OF 1988.

SUBJECT TO FIELD INSPECTION

PROJECT INFORMATION

GENERAL SCOPE OF WORK

UTILITY UPGRADES TO SUPPORT EXPANDED BUILDING.

EXISTING BUILDING INFORMATION 021-010-025 ZONING: OCCUPANCY TYPE:

66 SF

1:150 86 SF <u>1</u>

REPORT WRITING 1:150 84 SF <u>1</u> TOTAL SHERIFF'S

BUSINESS

TENENT IMPROVEMENT INFORMATION

OCCUPANCY TYPE: LIBRARY/SHERIFF SUB-STATION B NON-SPRINKLERED (EXISTING)

242 SF

NOTE: THIS PROJECT IS NOT PUBLIC LIBRAIES FUNDED FROM THE CALIFORNIA

Plans shall reflect the scope of work of the project. Any changes or deviations must be submitted and reviewed by the Building Department prior to inspection.

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JOB SET

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NON-BEARING WALL FRAMING DETAILS INTERIOR AND MISC. DETAILS

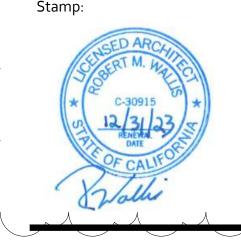
NON-BEARING WALL FRAMING DETAILS

TITLE-24 ENERGY REPORT

ENERGY

10988 Combie Rd Suite 108 and 110 Auburn, CA 95602

CONTRACT SET



WALLIS DESIGN STUDIO

ARCHITECTS, INC.

415 W Main St

Grass Valley, CA 95945 (530) 264-7010 WallisDesignStudio.com

BEAR RIVER

NEVADA COUNTY

LIBRARY

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SPECIAL INSPECTIONS

NONE

GENERAL

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GENERAL NOTES

CODE ANALYSIS

SITE DETAILS

EGRESS SIGNAGE PLAN

CAL-GREEN NON RESIDENTIAL CAL-GREEN NON RESIDENTIAL

CAL-GREEN NON RESIDENTIAL

Page

DEFFERED APPROVALS

CONTRACTOR SHALL SUBMIT DOCUMENTS TO THE ARCHITECT OR ENGINEER OF RECORD WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND THAT THEY HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. ANY EXCEPTIONS MUST BE ADDRESSED BEFORE SUBMITTING TO THE BUILDING DEPARTMENT.

FIRE ALARM SYSTEM

Date 5/3/22 6/17/22

2021020

1" = 1'-0"

CF

02.17.2022

Proj. No.:

AGENCIES & UTILITIES

NEVADA COUNTY COMMUNITY DEVELOPMENT AGENCY

ERIC ROOD ADMINISTRATIVE CENTER 950 MAIDU AVENUE NEVADA CITY, CA 95959

TRISTA TILLOTSON, AGENCY DIRECTOR

EMAIL: COMDEVAGENCY@CO.NEVADA.CA.US PHONE: (530) 265-1222 FAX: (530) 265-9854

CRAIG GRIESBACH, BUILDING OFFICIAL EMAIL: BUILDINGDEPT@CO.NEVADA.CA.US PHONE: (530) 265-1222 OPTION 1' FAX: (530) 470-2939

BRIAN FOSS, PLANNING DIRECTOR EMAIL: PLANNING@CO.NEVADA.CA.US PHONE: (530) 265-1222

FAX: (530) 265-9851

FAX: (530) 265-9853

AMY IRANI, ENVIRONMENTAL HEALTH DIRECTOR EMAIL: ENV.HEALTH@CO.NEVADA.CA.US PHONE: (530) 265-1222 OPTION 3

Planning Department approval per **Maria Masiscalco**

COMPLETION OF THIS REVIEW DOES NOT AUTHORIZE CONSTRUCTION TO PROCEED VIOLATION OF ANY FEDERAL, STATE OR LOCAL REGULATIONS. DATE: 06 July 2022 INTERWEST CONSULTING GROUP

2019 CALIFORNIA FIRE CODE

The library will have the followings; I- A posting sign at the main entrance indicating a maximum 49 occupants

HIGGINS FIRE DISTRICT

10106 COMBIE ROAD

AUBURN, CA 95602

JERRY GOOD, FIRE DISTRICT CHIEF

EMAIL: ADMIN@HIGGINSFIRE.ORG

(530) 269-2488

USING THE FOL 2019 CALIFORNIA RESIDENTIAL CODE

2019 CALIFORNIA BUILDING CODE 2019 CALIFORNIA ELECTRICAL CODE

2019 CALIFORNIA PLUMBING CODE

2019 CALIFORNIA MECHANICAL CODE 2019 CALIFORNIA ENERGY CODE

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

REVIEWED FOR CODE COMPLIANCE

2019 CALIFORNIA BUILDING CODE - STRUCTURAL DESIGN PROVISIONS ONLY

2- operational plans and employee training in place to enforce the maximum occupant load of the library to 49 MAX.

Per email from Nicholas McBurney, Supervising Building Plans Examiner Nevada County Building Department on 7/6/2022

CODES AND STANDARDS

ALL WORK SHALL COMPLY WITH THE 2019 CALIFORNIA CODE OF REGULATIONS, TITLE-24, CALIFORNIA BUILDING STANDARDS COMMISSION (CBSC) - PARTS 1 THRU PART 12

- PART 1 CALIFORNIA ADMINISTRATIVE CODE PART 2, VOLUME 1 OF 2 - CALIFORNIA BUILDING CODE (CBC) PART 2, VOLUME 2 OF 2 - CALIFORNIA BUILDING CODE (CBC)
- PART 2.5 CALIFORNIA RESIDENTIAL CODE (CRC) PART 3 - CALIFORNIA ELECTRICAL CODE (CEC)
- PART 4 CALIFORNIA MECHANICAL CODE (CMC) PART 5 - CALIFORNIA PLUMBING CODE (CPC) PART 6 - CALIFORNIA ENERGY CODE PART 7 - CALIFORNIA ELEVATOR SAFETY CONSTRUCTION CODE
- PART 8 CALIFORNIA HISTORICAL BUILDING CODE PART 9 - CALIFORNIA FIRE CODE PART 10 - CALIFORNIA CODE FOR BUILDING CONSERVATION PART 11 - CALIFORNIA GREEN BUILDING STANDARDS CODE

ALL WORK SHALL COMPLY WITH THE CURRENT EDITION OF THE CALIFORNIA CODE OF REGULATIONS (CCR), OFFICE OF ADMINISTRATIVE LAW.

PART 12 - CALIFORNIA REFERENCED STANDARDS CODE (CALGreen)

TITLE 19 C.C.R., PUBLIC SAFETY TITLE 24 C.C.R., BUILDING STANDARDS CODE

BUILDING & SAFETY DIVISION

- ALL WORK SHALL COMPLY WITH THE CURRENT FOLLOWING AUTHORITIES AND THEIR STANDARDS:
- PLANNING AND COMMUNITY DEVELOPMENT DEPARTMENT PUBLIC WORKS DEPARTMENT FIRE DEPARTMENT

AMERICANS WITH DISABILITIES ACT - (ADA)

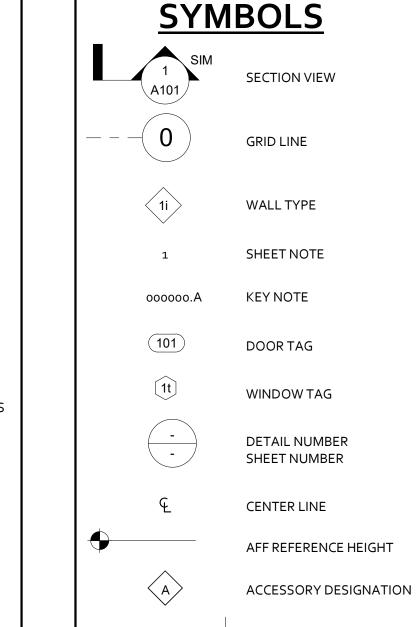
EARTH CONCRETE **CONCRETE UNIT MASONRY BATT INSULATION RIGID INSULATION** STRUCTURAL SHEATHING WOOD FRAMING, CONTINUOUS WOOD FRAMING, BLOCKING

GYPSUM BOARD

WOOD FINISH

LEGEND

AGGREGATE FILL



APPROVALS

Drawn By: Drawing Title: **COVER SHEET**

Drawing Number Ao.o

6/17/2022 3:23:27 PM

CONSTRUCTION BEST MANAGEMENT PRACTICES (BMPS)

CONSTRUCTION PROJECTS ARE REQUIRED TO IMPLEMENT THE STORMWATER BEST MANAGEMENT PRACTICES (BMP) ON THIS PAGE, AS THEY APPLY TO YOUR PROJECT, ALL YEAR LONG.

MATERIALS & WASTE MANAGEMENT

NON-HAZARDOUS MATERIALS

- BERM AND COVER STOCKPILES OF SAND, DIRT OR OTHER CONSTRUCTION MATERIAL WITH TARPS WHEN RAIN IS FORECAST OR IF NOT ACTIVELY BEING USED WITHIN 14 DAYS.
- USE (BUT DON'T OVERUSE) RECLAIMED WATER FOR DUST CONTROL.

HAZARDOUS MATERIALS

- LABEL ALL HAZARDOUS MATERIALS AND HAZARDOUS WASTES (SUCH AS PESTICIDES, PAINTS, THINNERS, SOLVENTS, FUEL, OIL, AND ANTIFREEZE) IN ACCORDANCE WITH CITY, COUNTY, STATE AND FEDERAL REGULATIONS.
- STORE HAZARDOUS MATERIALS AND WASTES IN WATER TIGHT CONTAINERS, STORE IN APPROPRIATE SECONDARY CONTAINMENT, AND COVER THEM AT THE END OF EVERY WORK DAY OR DURING WET WEATHER OR WHEN RAIN IS FORECAST.
- FOLLOW MANUFACTURER'S APPLICATION INSTRUCTIONS FOR HAZARDOUS MATERIALS AND BE CAREFUL NOT TO USE MORE THAN NECESSARY. DO NOT APPLY CHEMICALS OUTDOORS WHEN RAIN IS FORECAST WITHIN 24 HOURS.
- ARRANGE FOR APPROPRIATE DISPOSAL OF ALL HAZARDOUS WASTES.

WASTE MANAGEMENT

- COVER WASTE DISPOSAL CONTAINERS SECURELY WITH TARPS AT THE END OF EVERY WORK DAY AND DURING WET WEATHER.
- CHECK WASTE DISPOSAL CONTAINERS FREQUENTLY FOR LEAKS AND TO MAKE SURE THEY ARE NOT OVER FILLED. NEVER HOSE DOWN A DUMPSTER ON THE CONSTRUCTION SITE.
- CLEAN OR REPLACE PORTABLE TOILETS, AND INSPECT THEM FREQUENTLY FOR LEAKS AND SPILLS. DISPOSE OF ALL WASTES AND DEBRIS PROPERLY. RECYCLE MATERIALS AND
- WASTES THAT CAN BE RECYCLED (SUCH AS ASPHALT, CONCRETE, AGGREGATE BASE MATERIALS, WOOD, GYP BOARD, PIPE, ETC.)
- DISPOSE OF LIQUID RESIDUES FROM PAINTS, THINNERS, SOLVENTS, GLUES, AND CLEANING FL UIDS AS HAZARDOUS WASTE.

CONSTRUCTION ENTRANCES AND PERIMETER

- ESTABLISH AND MAINTAIN EFFECTIVE PERIMETER CONTROLS AND STABILIZE ALL CONSTRUCTION ENTRANCES AND EXITS TO SUF FI CIENTLY CONTROL
- EROSION AND SEDIMENT DISCHARGES FROM SITE AND TRACKING OFF SITE. SWEEP OR VACUUM ANY STREET TRACKING IMMEDIATELY AND SECURE SEDIMENT SOURCE TO PREVENT FURTHER TRACKING. NEVER HOSE DOWN STREETS TO CLEAN UP TRACKING.

EQUIPMENT MANAGEMENT & SPILL CONTROL

MAINTENANCE AND PARKING

- DESIGNATE AN AREA, FI TTED WITH APPROPRIATE BMPS, FOR VEHICLE AND EQUIPMENT PARKING AND STORAGE.
- PERFORM MAJOR MAINTENANCE, REPAIR JOBS, AND VEHICLE AND EQUIPMENT WASHING OFF SITE.
- IF REFUELING OR VEHICLE MAINTENANCE MUST BE DONE ONSITE, WORK IN A BERMED AREA AWAY FROM STORM DRAINS AND OVER A DRIP PAN OR DROP CLOTHS BIG ENOUGH TO COLLECT FL UIDS. RECYCLE OR DISPOSE OF FL UIDS AS HAZARDOUS WASTE.
- IF VEHICLE OR EQUIPMENT CLEANING MUST BE DONE ONSITE, CLEAN WITH WATER ONLY IN A BERMED AREA THAT WILL NOT ALLOW RINSE WATER TO RUN INTO GUTTERS, STREETS, STORM DRAINS, OR SURFACE WATERS.
- DO NOT CLEAN VEHICLE OR EQUIPMENT ONSITE USING SOAPS, SOLVENTS, DEGREASERS, OR STEAM CLEANING EQUIPMENT.

SPILL PREVENTION AND CONTROL

- KEEP SPILL CLEANUP MATERIALS (E.G., RAGS, ABSORBENTS AND CAT LITTER) AVAILABLE AT THE CONSTRUCTION SITE AT ALL TIMES.
- INSPECT VEHICLES AND EQUIPMENT FREQUENTLY FOR AND REPAIR LEAKS PROMPTLY. USE DRIP PANS TO CATCH LEAKS UNTIL REPAIRS ARE MADE. CLEAN UP SPILLS OR LEAKS IMMEDIATELY AND DISPOSE OF CLEANUP
- MATERIALS PROPERLY.
- DO NOT HOSE DOWN SURFACES WHERE FL UIDS HAVE SPILLED. USE DRY CLEANUP METHODS (ABSORBENT MATERIALS, CAT LITTER, AND/OR RAGS). SWEEP UP SPILLED DRY MATERIALS IMMEDIATELY. DO NOT TRY TO WASH THEM
- AWAY WITH WATER, OR BURY THEM. CLEAN UP SPILLS ON DIRT AREAS BY DIGGING UP AND PROPERLY DISPOSING OF
- CONTAMINATED SOIL REPORT SIGNIFICANT SPILLS IMMEDIATELY. YOU ARE REQUIRED BY LAW TO REPORT ALL SIGNIFICANT RELEASES OF HAZARDOUS MATERIALS, INCLUDING
- OIL. TO REPORT A SPILL A. DIAL 911 OR YOUR LOCAL EMERGENCY RESPONSE NUMBER B. CALL THE GOVERNOR'S OFFICE OF EMERGENCY SERVICES WARNING CENTER, (800) 852-7550 (24 HOURS).

LANDSCAPING

- PROTECT STOCKPILED LANDSCAPING MATERIALS FROM WIND AND RAIN BY STORING THEM UNDER TARPS ALL YEAR-ROUND.
- STACK BAGGED MATERIAL ON PALLETS AND UNDER COVER.
- DISCONTINUE APPLICATION OF ANY ERODIBLE LANDSCAPE MATERIAL WITHIN 2 DAYS BEFORE A FORECAST RAIN EVENT OR DURING WET WEATHER.

CLR

DW

DWR

EARTHMOVING

- SCHEDULE GRADING AND EXCAVATION WORK DURING DRY WEATHER. STABILIZE ALL DENUDED AREAS, INSTALL AND MAINTAIN TEMPORARY EROSION CONTROLS (SUCH AS EROSION CONTROL FABRIC OR BONDED FI BER MATRIX) UNTIL VEGETATION IS ESTABLISHED.
- REMOVE EXISTING VEGETATION ONLY WHEN ABSOLUTELY NECESSARY, AND SEED OR PLANT VEGETATION FOR EROSION CONTROL ON SLOPES OR WHERE CONSTRUCTION IS NOT IMMEDIATELY PLANNED.
- PREVENT SEDIMENT FROM MIGRATING OFFSITE AND PROTECT STORM DRAIN INLETS, GUTTERS, DITCHES, AND DRAINAGE COURSES BY INSTALLING AND MAINTAINING APPROPRIATE BMPS, SUCH AS FI BER ROLLS, SILT FENCES, SEDIMENT BASINS, GRAVEL BAGS, BERMS, ETC.
- KEEP EXCAVATED SOIL ON SITE ANDTRANSFER IT TO DUMP TRUCKS ON SITE, NOT IN THE STREETS.

CONTAMINATED SOILS

- 1. IF ANY OF THE FOLLOWING CONDITIONS ARE OBSERVED, TEST FOR CONTAMINATION AND CONTACT THE REGIONAL WATER QUALITY CONTROL
 - UNUSUAL SOIL CONDITIONS, DISCOLORATION, OR ODOR.
 - ABANDONED UNDERGROUND TANKS. ABANDONED WELLS
 - BURIED BARRELS, DEBRIS, OR TRASH.

PAVING/ASPHALT WORK

- AVOID PAVING AND SEAL COATING IN WET WEATHER OR WHEN RAIN IS FORECAST, TO PREVENT MATERIALS THAT HAVE NOT CURED
- COVER STORM DRAIN INLETS AND MANHOLES WHEN APPLYING SEAL COAT, TACK COAT, SLURRY SEAL, FOG SEAL, ETC.
- COLLECT AND RECYCLE OR APPROPRIATELY DISPOSE OF EXCESS ABRASIVE GRAVEL OR SAND. DO NOT SWEEP OR WASH IT INTO GUTTERS.
- 4. DO NOT USE WATER TO WASH DOWN FRESH ASPHALT CONCRETE PAVEMENT

SAWCUTTING & ASPHALT/CONCRETE REMOVAL

- FABRIC, CATCH BASIN INLET FILTERS, OR GRAVEL BAGS TO KEEP SLURRY OUT OF THE STORM DRAIN SYSTEM. SHOVEL, ABOSORB, OR VACUUM SAW-CUT SLURRY AND DISPOSE OF ALL WASTE
- AS SOON AS YOU ARE FINISHED IN ONE LOCATION OR AT THE END OF EACH WORK DAY (WHICHEVER IS SOONER!).

PROTECT NEARBY STORM DRAIN INLETS WHEN SAW CUTTING. USE FILTER

IF SAWCUT SLURRY ENTERS A CATCH BASIN, CLEAN IT UP IMMEDIATELY.

CONCRETE, GROUT & MORTAR APPLICATION

- STORE CONCRETE, GROUT, AND MORTAR AWAY FROM STORM DRAINS OR WATERWAYS, AND ON PALLETS UNDER COVER TO PROTECT THEM FROM RAIN, RUNOFF, AND WIND.
- WASH OUT CONCRETE EQUIPMENT/TRUCKS OFFSITE OR IN A DESIGNATED WASHOUT AREA, WHERE THE WATER WILL FLOW INTO A TEMPORARY WASTE PIT AND IN A MANNER THAT WILL PREVENT LEACHING INTO THE UNDERLYING SOIL OR ONTO SURROUNDING AREAS. LET CONCRETE HARDEN AND DISPOSE OF AS GARBAGE.
- WHEN WASHING EXPOSED AGGREGATE, PREVENT WASHWATER FROM ENTERING STORM DRAINS. BLOCK ANY INLETS AND VACUUM GUTTERS, HOSE WASHWATER ONTO DIRT AREAS, OR DRAIN ONTO A BERMED SURFACE TO BE PUMPED AND DISPOSED OF PROPERLY

PAINT CLEAN-UP & REMOVAL

- NEVER CLEAN BRUSHES OR RINSE PAINT CONTAINERS INTO A STREET, GUTTER, STORM DRAIN, OR STREAM.
- FOR WATER-BASED PAINTS, PAINT OUT BRUSHES TO THE EXTENT POSSIBLE, AND RINSE INTO A DRAIN THAT GOES TO THE SANITARY SEWER. NEVER POUR PAINT **DOWN A STORM DRAIN**
- FOR OIL-BASED PAINTS, PAINT OUT BRUSHES TO THE EXTENT POSSIBLE AND CLEAN WITH THINNER OR SOLVENT IN A PROPER CONTAINER. FILTER AND REUSE THINNERS AND SOLVENTS. DISPOSE OF EXCESS LIQUIDS AS HAZARDOUS
- PAINT CHIPS AND DUST FROM NON-HAZARDOUS DRY STRIPPING AND SAND BLASTING MAY BE SWEPT UP OR COLLECTED IN PLASTIC DROP CLOTHS AND DISPOSED OF AS TRASH.
- CHEMICAL PAINT STRIPPING RESIDUE AND CHIPS AND DUST FROM MARINE PAINTS OR PAINTS CONTAINING LEAD, MERCURY, OR TRIBUTYLTIN MUST BE DISPOSED OF AS HAZARDOUS WASTE. LEAD BASED PAINT REMOVAL REQUIRES A STATE-CERTIFIED CONTRACTOR.

DEWATERING

- DISCHARGES OF GROUNDWATER OR CAPTURED RUNOFF FROM DEWATERING OPERATIONS MUST BE PROPERLY MANAGED AND DISPOSED. WHEN POSSIBLE SEND DEWATERING DISCHARGE TO LANDSCAPED AREA OR SANITARY SEWER. IF DISCHARGING TO THE SANITARY SEWER CALL YOUR LOCAL WASTEWATER TREATMENT PLANT.
- DIVERT RUN-ON WATER FROM OFFSITE AWAY FROM ALL DISTURBED AREAS.
- WHEN DEWATERING, NOTIFY AND OBTAIN APPROVAL FROM THE LOCAL MUNICIPALITY BEFORE DISCHARGING WATER TO A STREET GUTTER OR STORM DRAIN. FILTRATION OR DIVERSION THROUGH A BASIN, TANK, OR SEDIMENT TRAP
- MAY BE REQUIRED IN AREAS OF KNOWN OR SUSPECTED CONTAMINATION, CALL YOUR LOCAL AGENCY TO DETERMINE WHETHER THE GROUND WATER MUST BE TESTED. PUMPED GROUNDWATER MAY NEED TO BE COLLECTED AND HAULED OFF-SITE FOR TREATMENT AND PROPER DISPOSAL

FIRE PROTECTION NOTES

- THE BUILDING SHALL BE PROVIDED WITH AN AUTOMATIC FIRE EXTINGUISHING SYSTEM THROUGHOUT AND THE PRE-ACTION DRY FIRE SPRINKLER SYSTEM WHERE INDICATED. SYSTEMS SHALL CONFORM TO THE CALIFORNIA BUILDING CODE, FIRE DEPARTMENT HAVING JURISDICTION AND SPECIFICATIONS.
- ALL AUTOMATIC FIRE SPRINKLER SYSTEM WORK INCLUDING THE FIRE ALARM SYSTEM IS TO BE ENGINEERED, FURNISHED AND INSTALLED BY A LICENSED FIRE SPRINKLER CONTRACTOR.
- FIRE SPRINKLER CONTRACTOR SHALL SUBMIT FIRE SPRINKLER DRAWINGS AND CALCULATIONS TO THE LOCAL FIRE CHIEF AND LOCAL BUILDING DEPARTMENT AS A DEFERRED SUBMITTAL FOR APPROVAL AND PERMIT PRIOR TO COMMENCING THE

ORTABLE FIRE EXTINGUISHERS

- PORTABLE FIRE EXTINGUISHERS SHALL BE INSTALLED IN OCCUPANCIES AND LOCATIONS AS INDICATED ON DRAWINGS. AS HEREIN INDICTED AND SET FORTH IN THE CODE AND AS REQUIRED BY THE FIRE DEPARTMENT. THE MAXIMUM TRAVEL DISTANCE TO THE FIRE EXTINGUISHER SHALL NOT EXCEED 75 FEET ALONG AN UNOBSTRUCTED PATH OF TRAVEL, CFC TABLE 906.3(1). ALL PORTABLE FIRE EXTINGUISHERS SHALL HAVE A SERVICE TAG AFFIXED TO THEM SHOWING THAT THE EXTINGUISHER HAS BEEN SERVICED BY A CALIFORNIA STATE LICENSED FIRE EXTINGUISHER CONCERN. ALL FIRE EXTINGUISHERS SHALL BE ATTACHED TO A BRACKET OR WITHIN AN APPROVED CABINET, REFER TO DRAWINGS AND SPECIFICATIONS. MAXIMUM DISTANCE FROM THE FLOOR SHALL NOT EXCEED THE REQUIREMENTS OF CFC SECTION 906.9 AND ADA.
- REFER TO DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.PORTABLE FIRE EXTINGUISHERS.

<u>APPROVALS</u> SEPARATE DEFERRED SUBMITTAL REQUIRED FOR THE DESIGN, INSTALLATION AND MONITORING OF THE FIRE SPRINKLER SYSTEM. CONTRACTOR SHALL SUBMIT PLANS AND CALCULATIONS TO THE FIRE DEPARTMENT FOR PLAN CHECK REVIEW AND APPROVALS PRIOR TO SYSTEM INSTALLATION.

100 FT VEGETATION MANAGEMENT CLEARANCE REQUIREMENTS:

- PROJECT TO BE COMPLIANT WITH CALIFORNIA PUBLIC RESOURCES CODE 4291
- TWO ZONES MAKE UP THE REQUIRED 100 FEET OF DEFENSIBLE SPACE:

30 FEET OF LEAN, CLEAN & GREEN:

- REMOVE ALL DEAD PLANTS, GRASS AND WEEDS. REMOVE DEAD OR DRY LEAVES AND PINE NEEDLES FROM YOUR YARD, ROOF
- KEEP TREE BRANCHES 10 FEET AWAY FROM YOUR CHIMNEY AND OTHER

ZONE 2: 30-100 FEET OF REDUCED FUEL:

AND RAIN GUTTERS.

- CUT OR MOW ANNUAL GRASS DOWN TO A MAXIMUM HEIGHT OF 4 INCHES. CREATE HORIZONTAL SPACING BETWEEN SHRUBS AND TREES.
- CREATE VERTICAL SPACING BETWEEN GRASS, SHRUBS AND TREES. USE EQUIPMENT PROPERLY TO KEEP FROM SPARKING A WILDFIRE.
- MOW BEFORE 10 A.M., AND NEVER ON A HOT OR WINDY DAY. STRING TRIMMERS ARE A SAFER OPTION (VS. LAWNMOWERS) FOR CLEARING

CODE COMPLIANCE Jul 06, 2022

REVIEWED

INTERWEST CONSULTING GROUP

CONTRACTOR RESPONSIBILITIES

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- THE CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT FOR ALL WORK IN CITY ROAD.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACES, SHORES, AND GUYS REQUIRED TO SUPPORT ALL LOADS TO WHICH THE BUILDING STRUCTURES AND COMPONENTS, ADJACENT SOILS AND STRUCTURES, UTILITIES AND RIGHT-OF-WAYS MAY BE SUBJECT DURING CONSTRUCTIONS.
- FLOOR AND WALL OPENINGS, SLEEVES, VARIATIONS IN THE STRUCTURAL SLAB ELEVATIONS, DEPRESSED AREAS AND ALL OTHER ARCHITECTURAL, STRUCTURAL MECHANICAL, ELECTRICAL, AND/OR CIVIL REQUIREMENTS MUST BE COORDINATED BEFORE THE CONTRACTOR PROCEEDS WITH THE WORK.

TYPICAL NOTES

- SIMILAR MEANS COMPARABLE CHARACTERISTICS FOR THE CONDITIONS NOTES. VERIFY DIMENSIONS AND/OR ORIENTATIONS ON PLANS AND/OR ELEVATIONS.
- DIMENSIONS ARE NOT ADJUSTABLE WITHOUT APPROVAL OF ARCHITECT IN WRITING. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ARCHITECT OF ANY CONFLICTS HEREIN, EITHER APPARENT OR OBVIOUS, PRIOR TO START OF WORK ON THAT ITEM OR BEAR THE RESPONSIBILITY OF CORRECTING SUCH WORK AS DIRECTED BY THE ARCHITECT AND AT NO ADDITIONAL COST AND NO TIME EXTENSION OF THE PROJECT.
- UNDERCUT ALL DOORS TO CLEAR TOP OF FLOOR FINISH AND/OR THRESHOLD .25 INCHES MAXIMUM AND IN COMPLIANCE WITH RATED DOOR/FRAME GUIDELINES. PREPARE DOORS FOR HARDWARE SPECIFIED. TEST AND ADJUST DOORS FOR SMOOTH, QUIET OPERATION BEFORE FINAL INSPECTIONS TO CONFIRM MAXIMUM
- PRESSURE TO OPEN DOOR IS NOT EXCEEDED. USE WATER RESISTANT / GLASS FIBER FACED GYPSUM WALLBOARD ON ALL WALL FACES WHICH ARE EXPOSED TO WATER OR MOISTURE AS WELL AS THOSE USED FOR
- JANITOR AND TOILET WALLS, COORDINATE WITH SPECIFICATIONS ALL EXTERIOR WALLS SHALL BE INSULATED AND IN COMPLIANCE WITH SPECIFICATIONS AND PLAN DOCUMENTS AND SHALL NOT FALL BELOW MINIMUM
- TITLE 24 REQUIREMENTS WHERE NOT INDICATED. SEE DRAWINGS AND DETAILS FOR TYPICAL NOTES. DEPRESS FLOOR SLABS AS REQUIRED FOR FLOOR CLOSURES.
- PROVIDE ADEQUATE BLOCKING AND ANCHORAGE FOR CEILING AND WALL MOUNTED EQUIPMENT - I.E. WATER COOLERS, FIRE EXTINGUISHER CABINETS, HANDRAILS AND GUARDRAILS, ETC. INTERIOR PARTITION FINISHES TERMINATE 6 INCHES ABOVE THE HIGHEST ADJACENT
- CEILING UNLESS NOTED OTHERWISE. ALL CEILING CONSTRUCTIONS SHALL COMPLY WITH CBC CHAPTER 25 (MAXIMUM 12"
- JOIST SPACING AT CEILINGS) AND AS INDICATED IN DRAWINGS. ALL OPENINGS INTO 1 HOUR STAIR ENCLOSURES SHALL BE PROTECTED BY LABELED CLASS B FIRE ASSEMBLY - 60 MINUTE RATING.

BUILDING SECURITY STANDARDS

- ALL WORK SHALL COMPLY WITH THE FOLLOWING BUILDING SECURITY STANDARDS: GENERAL REQUIREMENTS
 - SECURITY AND LOCKING DEVICES SHALL NOT CREATE HAZARDS TO LIFE BY OBSTRUCTING:
 - EXITWAYS OR MEANS OF EGRESS.
 - EXIT DOORS EQUIPPED WITH PANIC HARDWARE.
- ASSEMBLIES AND SECURITY HARDWARE INSTALLED SHALL BE LABELED AND CERTIFIED AS MEETING UL (UNDERWRITERS LABORATORY) STANDARDS, OR OTHER APPROVED PERFORMANCE TESTING CRITERIA AS APPROVED BY AGENCY HAVING
- REQUIRED AREA LIGHTING AND ADDRESS IDENTIFICATION SHALL BE INSTALLED
- BEFORE FINAL INSPECTION IS CALLED FOR. ILLUMINATION PER CODE REQUIREMENTS SHALL BE PROVIDED ADJACENT TO ALL EXTERIOR DOORS DURING ALL HOURS OF DARKNESS TO PROVIDE MINIMUM REQUIRED FOOT CANDLE LEVEL AT PAVING.
- WINDOW PROVISIONS: GLAZING IN EXTERIOR DOORS OR WITHIN A 24 INCH ARC OF EITHER VERTICAL EDGE OF A DOOR IN THE CLOSED POSITION SHALL BE TEMPERED SAFETY
- GLAZING. GLAZING AND GLAZED ASSEMBLIES FOR ACCESSIBLE OPENINGS SHALL BE CERTIFIED AS MEETING TEST PROVISIONS OF UL (UNDERWRITERS LABORATORY)
- ALL GLAZING INSTALLED IN A HAZARDOUS LOCATION SHALL BE TEMPERED SAFETY GLASS.
- GLAZING AND INSTALLATION SHALL BE IN COMPLIANCE WITH THE
- CALIFORNIA BUILDING CODE INCLUDING CHAPTER 24. GLAZING SHALL BE TEMPERED SAFETY GLAZING WHERE INDICATED.

MECHANICAL AND PLUMBING

- MECHANICAL AND PLUMBING SHALL COMPLY WITH THE MOST CURRENT ADOPTED EDITION ON THE CALIFORNIA MECHANICAL AND PLUMBING CODES AT TIME OF PERMIT ISSUANCE.
- FIRE SMOKE DAMPERS SHALL BE PROVIDED FOR ALL DUCTS AND OPENINGS WHICH PENETRATE FIRE RATED WALLS OR FIRE RATED CEILINGS.
- TOILET ROOMS SHALL BE EQUIPPED WITH A VENTILATION SYSTEM. ACCESS PANELS SHALL BE PROVIDED WHERE REQUIRED FOR ACCESS TO ALL DUCTWORK, FIRE DAMPERS, ETC.; REFER ALSO TO SPECIFICATIONS.

WATER PIPING SHALL BE INSULATED.

- LOCATION OF ALL MECHANICAL ROOF OPENINGS SHALL BE DETERMINED AND VERIFIED BY THE MECHANICAL AND GENERAL CONTRACTOR. AN OUTSIDE LABELED GAS SHUT-OFF VALVE SHALL BE PROVIDED AS REQUIRED.
- ELECTROLYSIS PROTECTION SHALL BE PROVIDED BETWEEN ALL DISSIMILAR METALS WHEREVER THE TWO ARE IN CONTACT. ALL CONTINUOUSLY CIRCULATING DOMESTIC HEATING, HOT WATER AND CHILLED
 - PROP **PROPERTY** SOUTH

COMPLIANCE WITH PLAN DOCUMENTS

- - DIMENSIONS SHALL NOT BE SCALED FROM DRAWINGS. ALL DIMENSIONS TO OPENINGS ARE TO THE ROUGH OPENING UNLESS NOTED
 - OTHERWISE. ALL DIMENSIONS TO STUD PARTITIONS ARE TO THE FACE OF FRAMING
 - UNLESS NOTED OTHERWISE.
 - CEILING HEIGHT DIMENSIONS ARE FROM FINISH FLOOR TO FINISH FACE OF CEILING.
 - WHERE INDICATED, DIMENSIONS SHALL BE TO CENTER / GRID LINES. ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD BEFORE PROCEEDING WITH
 - ACCESSIBILITY DIMENSIONS SHALL BE MEASURED TO FACE OF WALL FINISH, CLEAR OPENING AND AS INDICATED ON ENLARGED PLAN, MOUNTING HEIGHTS SHEET, TOILET ROOM ELEVATIONS AND STANDARD DETAILS DRAWING SHEET.
 - DIMENSIONING PROTOCOLS / HIERARCHY: "ENLARGED PLAN" INCLUDE ALL DIMENSIONING ASSOCIATED WITH THE GRAPHICS SHOWN.
 - OVERALL PLANS SHOW DIMENSIONS NOT INDICATED ON "PARTIAL DIMENSIONING PLANS."
 - WHERE NO SPECIFIC DETAIL IS SHOWN, THE FRAMING OR CONSTRUCTION SHALL BE IDENTICAL OR SIMILAR TO THAT INDICATED FOR LIKE CASES OR CONSTRUCTIONS ON THE PROJECT AND IF NOT CLEAR AN REQUEST FOR INFORMATION (RFI) SHALL BE
- ISSUED TO ARCHITECT FOR CLARIFICATION. CONCRETE CONSTRUCTION SHALL COMPLY WITH THE CALIFORNIA BUILDING CODE INCLUDING CHAPTERS 16, 17, 18 AND 19.
- STEEL CONSTRUCTION SHALL COMPLY WITH THE CALIFORNIA BUILDING CODE INCLUDING CHAPTERS 16, 17 AND 22.
- ALL INTERIOR FINISH MATERIALS SHALL HAVE A FLAME SPREAD CLASSIFICATION RATING PER CALIFORNIA BUILDING CODE INCLUDING CHAPTER 8. ROOF COVERING AND ROOFING MATERIALS SHALL BE FIRE RETARDANT AND SHALL COMPLY WITH THE UNDERWRITERS LABORATORIES, INC. AND CLASSIFIED AS CLASS B U.L. FIRE HAZARD, MINIMUM UNLESS NOTED OTHERWISE ON DRAWINGS OR IN

SPECIFICATIONS AND SHALL COMPLY WITH THE CALIFORNIA BUILDING CODE

- **INCLUDING CHAPTER 15.** ALL EXIT ENCLOSURES AND SHAFT WALLS SHALL BE RATED CONSTRUCTION AND SHALL COMPLY WITH THE CALIFORNIA BUILDING CODE INCLUDING CHAPTER 7, REFER TO PLAN DOCUMENTS. ALL OPENINGS TO BE PROTECTED AS FOLLOWS: ONE HOUR EXIT ENCLOSURE WALLS - 60 MINUTE RATED DOOR AND FRAME
- ASSEMBLY ONE HOUR RATED SHAFT WALLS - 60 MINUTE LABELED DOOR AND FRAME
- DOORS SHALL BE SELF CLOSING OR AUTOMATIC CLOSING BY ACTUATION OF A SMOKE DETECTOR
- ALL REQUIRED EXITS SHALL BE OPENABLE FROM THE INSIDE AT ANY TIME BY TURNING OF THE LEVER OR DEPRESSING BAR OF PANIC EXIT DEVICE, WITHOUT THE USE OF A KEY OR ANY SPECIAL EFFORT OR KNOWLEDGE. ILLUMINATED EXIT SIGNS SHALL BE INSTALLED WHERE INDICATED AND AT STAIR ENCLOSURES, HORIZONTAL EXITS, AND OTHER REQUIRED EXIT DOORWAYS IN ACCORDANCE WITH CALIFORNIA BUILDING CODE WHERE NECESSARY TO CLEARLY
- INDICATE THE DIRECTION OF EGRESS WHEN TWO OR MORE EXITS ARE REQUIRED AND AT ROOMS SERVING AN OCCUPANT LOAD OF MORE THAN 49. DOOR SIZES INDICATED ON DOOR SCHEDULE ARE OPENING DIMENSIONS
- ALLOWANCES FOR THRESHOLDS, FLOOR FINISHES, ETC. SHALL BE TAKEN OFF DOOR THE PRECISE DIMENSIONS AND LOCATIONS OF ALL DOORS, LOUVERS AND WINDOW OPENINGS SHALL BE DETERMINED BY ARCHITECTURAL PLANS AND DETAILS. OTHER WALL AND FLOOR OPENINGS AS REQUIRED BY MECHANICAL OR ELECTRICAL SHALL BE VERIFIED FROM SHOP DRAWINGS, EQUIPMENT DATA, ETC. AS REQUIRED, AND IF NOT CLEAR AN RFI SHALL BE ISSUED TO ARCHITECT FOR CLARIFICATION.
- DOOR OPENINGS NOT LOCATED BY DIMENSIONS SHALL BE LOCATED 6 INCHES FROM FINISH WALL TO FINISH JAMB UNLESS OTHERWISE NOTED. IF DOOR CLEARANCE REQUIREMENTS AT PULL SIDE AND PUSH SIDE OF STRIKE ARE NOT ACHIEVABLE, THEN CONTRACTOR SHALL ISSUE A RFI FOR CLARIFICATION PRIOR TO PROCEEDING. THERE SHALL BE A LEVEL FLOOR OR LEVEL LANDING ON EACH SIDE OF THE DOOR

REGARDLESS OF THE OCCUPANT LOAD. THE FLOOR OR LANDING SHALL NOT BE

MORE THAN ONE QUARTER INCH LOWER THAN THE THRESHOLD OR THE DOORWAY

- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR DIMENSIONS LOCATING LIGHT FIXTURES, DIFFUSERS AND WALL MOUNTED FIXTURES. REFER TO ELECTRICAL DRAWINGS FOR ALL LIGHTING FIXTURE TYPES, WIRING, ETC. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR MOUNTING HEIGHTS. WALL
- FIXTURES THAT PROTRUDE BEYOND 4 INCHES OF WALL SURFACE SHALL BE LOCATED WITH BOTTOM OF FIXTURE 80 INCHES CLEAR OF FINISH FLOOR CEILING SUSPENSION SYSTEM SHALL PROVIDE FOR CEILING SYSTEM ONLY. ADDITIONAL INDEPENDENT FRAMING FOR LIGHTING FIXTURES, EXIT SIGNS, GRILLES
- AND AIR CONDITIONING DIFFUSERS SHALL BE REQUIRED. ATTACHMENT OF HANGERS OR FRAMING TO DUCTWORK IS PROHIBITED. PROVIDE ADEQUATE ANCHORAGE, BLOCKING, BACKING, AND FRAMING FOR FIRE SPRINKLERS, PIPING, LIGHT FIXTURES, ELECTRICAL UNITS, HVAC EQUIPMENT AND

CEILING TRACKS AS REQUIRED FOR A COMPLETE INSTALLATION.

- RESISTIVE CONSTRUCTION AS REQUIRED. ELECTRICAL PANELS SHALL NOT BE LOCATED IN CORRIDOR OR SHAFT WALLS. GYPSUM BOARD ON INTERIOR METAL STUDS SHALL BE "THICK TYPE "X", OR TYPE "C"
- UNLESS NOTED OTHERWISE AND IN COMPLIANCE WITH PLAN DOCUMENTS "WALL TYPES" REQUIREMENTS AND SPECIFICATIONS ACCESSIBLE TOILET STALL DOOR OPENINGS SHALL BE 32 INCHES CLEAR WIDE FOR

ALL CABINETS RECESSED INTO RATED WALLS SHALL BE BACKED WITH ONE HOUR FIRE

END DOORS AND 34 INCHES CLEAR WIDE FOR SIDE DOORS. PROVIDE 48 INCHES CLEARANCE IN TOILET COMPARTMENT FROM FRONT OF WATER CLOSET TO OPPOSITE FINISH WALL - END DOOR OPENING.

PANEL BOARDS AND CONTROL EQUIPMENT.

CLOSET TO OPPOSITE FINISH WALL - SIDE DOOR OPENINGS. PROVIDE 36 INCHES MAXIMUM UNOBSTRUCTED WORKING SPACE IN FRONT OF ALL

PROVIDE 60 INCHES CLEARANCE IN TOILET COMPARTMENTS FROM FRONT OF WATER

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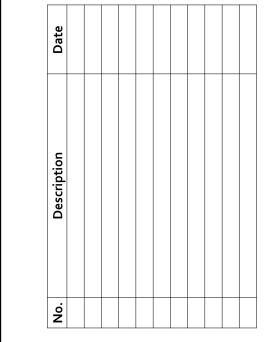
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2021020

Drawing Title: GENERAL NOTES

ACOUSTICAL AIR CONDITIONER

CABINET

CEILING

CONTROL JOINT

CENTER LINE

ABBREVIATIONS

CAB

CLG

ACC ACCESSIBLE ADJ **ADJUSTABLE** CONC AFF ABOVE FINISH FLOOR CPT CARPET ALT **CSMT** ALTERNATE ALUM ALUMINUM CT DEMO **APPROX APPROXIMATE** BD BOARD DIA BITUMINOUS **BITUM** DIM DIMENSION BLDG DN BUILDING DOWN BM BEAM DS DOWNSPOUT ВО **BOTTOM OF** DS DOWNSPOUT

CMU CONCRETE MASONRY UNIT COL COLUMN CONCRETE CASEMENT **CERAMIC TILE** DEMOLISH, DEMOLITION DIAMETER

DISHWASHER

DRAWING

EACH

CLEAR

EXPANSION JOINT ELEC ELECTRIC (AL) **ELEV** EQ **EQUAL** EQUIP EST **EXIST EXISTING** EXP **EXTERIOR**

FDN

FIN

FOS

FINISH

FLOOR

FLASHING

FACE OF CONCRETE

FACE OF MASONRY

FACE OF STUDS

ELEVATION FRMG FΤ **EQUIPMENT** FTG ESTIMATE (D) **FURN EXPANSION** GALV **FLOOR DRAIN** GEN **FOUNDATION** GL FIRE EXTINGUISHER GLULAM

FOSG

FPL

GWB

HORIZ

GYP

FOOT, FEET INSUL **FOOTING FURNITURE** GAGE LAM GALVANIZED, GALVANIC **GYPSUM BOARD** LB **GENERAL** LH LNDSCP GLASS GLUED LAMINATED WOOD MAS GYPSUM WALL BOARD

FACE OF SHEATHING

FIREPLACE

FRAMING

GYPSUM

HEADER

HARDWOOS

HORIZONTAL

HOLLOW METAL

INTERIOR LONG LAMINATE(D) LAVATORY POUND **LEFT HAND** LANDSCAPE MASONRY 0/ MAXIMUM MECH **MECHANICAL MEMB** MEMBRANE MFR

MINIMUM

HEIGHT

HEATER

INSIDE DIAMETE

INSULATION

MULL MULLION NOT APPLICABLE NIC NUMBER NOM NOMINAL NR NOT RATED NTS OVER OC ON CENTER OD OF MANUFACTURE (R) OH

MO

MR

MTL

NOT IN CONTRACT PED **PERF PERIM** PERM NOT TO SCALE PERP PH OUTSIDE DIAMETER PLAM PLWD OUSIDE FACE OVERHANG PRCST OPPOSITE HAND PREFAB

MISCELLANEOUS

METAL

MASONRY OPENING OPP

MOISTURE RESISTANT OVHD

OPNG

PAT

PBD

PCP

PRELIM

PEDESTAL PERFORATED PERIMETER **PERMIANENT** PERPENDICULAR PHASE PROPERTY LINE PLASTIC LAMINATE PLYWOOD **PRECAST** PREFABRICATED

PRELIMINARY

OPENING

OPPOSITE

OVERHEAD

PATTERN RADIUS PARTICLE BOARD PORTLAND CEMENT PLASTER RD REINF REQD REV RFG RM

PVG

ROOF DRAIN, ROAD **RECESSED** REFER (ENCE), REFERIGERATOR REINFORCE (D) (ING) REQUIRED REVISION (S), REVISED ROOFING **RIGHT HAND** ROOM **ROUGH OPENING**

RIGHT

PRESSURE TREATED

PAVING

SS ST T&G RIGHT OF WAY

REFLECTED CEILING PLAN SIM SOG SPEC SPKLR SPRINKLER SST STREET STC STD STANDARD STOR STORAGE STRUCT STRUCTURE (AL) TONGUE AND GROOVE

TEL

TEMP

SCHED

SF

STORM DRAIN THRU SQUARE FOOT (FEET) TOB SIMULAR TOC SLAB ON GRADE TOS **SPECIFICATION SANITARY SEWER** STAINLESS STEEL SOUND TRANSMISSION CLASS

SCHEDULE

TELEPHONE

TEMPORARY

TOP OF SLAB TOW TOP OF WALL TYP TYPICAL UNFIN UNFINISH (ED) UNO UNLESS NOTED OTHERWISE UTIL VCT VERT VIF VIN

THK

UTILITY VINYL COMPOSITION TILE VERTICAL **VERIFY IN FIELD** VINYL WEST

TEMPORARY

THICK (NESS)

TOP OF BEAM

TOP OF CURB

THROUGH

BUILDING CODE ANALYSIS

SITE ACCESSIBILITY

| AT HAZARDOUS VEHICLE | Α. | CONFIRM WITH CITY AGENCY HAVING JURISDICTION. |
|----------------------|----|---|
| LOCATIONS: | | |

USE AND OCCUPANCY CLASSIFICATION

| (CBC CHAPTER 3) | A. OCC TYPE A-3 TREATED AS B SECTION 303.4, 303.1.1 - MAIN OCCUPANCY |
|-----------------------|--|
| 303.1.1, 303.4, 304.1 | B. OCC TYPE B SECTION 304.1 - SECONDARY OCCUPANCY |
| | SMALL BUILDINGS AND TENANT SPACES (303.1.1) |
| | A BUILDING OR TENANT SPACE USED FOR ASSEMBLY PURPOSES WITH AN OCCUPANT LOAD LESS THAN 50 SHALL BE CLASSIFIED AS A 'B' OCCUPANCY. |
| | ASSEMBLY GROUP (303.4) |
| | GROUP A-3 OCCUPANCY INCLUDES OTHER ASSEMBLY USES NOT CLASSIFIED ELSEWHERE IN GROUP A. |
| | BUSINESS GROUP (304.1) |
| | GROUP B OCCUPANCY INCLUDE PROFESSIONAL OR SERVICE-TYPE TRANSACTIONS. |
| | |
| | |

SPECIAL REQUIREMENTS BASED ON USE AND OCCUPANCY

| (CBC CHAPTER 4) | A. | NONE |
|-----------------|----|------|
| | | |

BASIC ALLOWABLE AREA, HEIGHT & STORIES

| (CBC CHAPTER 5) 503, 504, 506 | TYPE | /B (B OCC) | |
|----------------------------------|------|---|---------------------|
| TABLE 504.3, 504.4, 506.2 | A. | ALLOWABLE BUILDING HEIGHT = 40'-0" | EXISTING, NO CHANGE |
| | В. | ALLOWABLE BUILDING AREA PER STORY= 9,000 SF | EXISTING, NO CHANGE |
| | C. | ALLOWABLE NUMBER OF STORIES = 2 | EXISTING, NO CHANGE |

MIXED USE AND OCCUPANCY

| MIXED OSE / MID OCC | <u> </u> |
|---------------------------------|--|
| (CBC CHAPTER 5) 508, 508.3.3 | TYPE VB (B OCC) |
| | NO SEPARATION IS REQUIRED AT NON SEPARATED OCCUPANCIES |
| | |
| | |
| | |
| | |

TYPES OF CONSTRUCTION

| TYPE VB BEARING WALLS - EXT NON BEARING WALLS - EXT BEARING WALLS - INT NON BEARING WALLS - INT STRUCTURAL FRAME | |
|--|--|
| BEARING WALLS - EXT NON BEARING WALLS - EXT BEARING WALLS - INT NON BEARING WALLS - INT | = 1 HOUR (5'≤10') = 1 HOUR (X≤5') = NON-RATED (X ≤ <30'-0") = 1 HOUR (X≤30'-0") = NON-RATED = NON-RATED |
| BEARING WALLS - INTNON BEARING WALLS - INT | = NON-RATED (X ≤ <30'-0") = 1 HOUR (X≤30'-0") = NON-RATED = NON-RATED |
| NON BEARING WALLS - INT | = NON-RATED |
| | |
| STRUCTURAL FRAME | |
| STRUCTURALITY | = NON-RATED |
| PARTITIONS PERMANENT | = NON-RATED |
| FLOOR AND FLOOR/CEILING | = NON-RATED |
| • ROOFS AND ROOF/CEILING | = NON-RATED |
| EXTERIOR DOORS & WINDOWS | = NON RATED |
| INTERIOR DOORS & WINDOWS | = 3/4 HOUR @ 1-HOUR =1/3 HOUR ELSEWHERE |
| EXIT PASSAGEWAYS | = 1 HOUR |
| | |
| | |
| | |
| | |
| | EXTERIOR DOORS & WINDOWS INTERIOR DOORS & WINDOWS |

FIRE ALARM AND DETECTION SYSTEMS

| UT BUILDING WH |
|----------------|
| ANCE WITH |
| UGHOUT THE |
| APPROVED |
| |
|) |

CONCEALED SPACES

| (CBC CHAPTER 7) 718.4 | A. | NONE REQUIRED |
|--------------------------|----|---------------|
| | | |

COMMON PATH OF EGRESS

| (CBC CHAPTER 10) TABLE 1017.2 | A. B. | B OCCUPANCY WITHOUT SPRINKLER SYSTEM 200 FT OF TRAVEL DISTANCE ALLOWED |
|----------------------------------|----------|--|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

EXITS

| (CBC CHAPTER 10 + 17) | Α. | MIN ONE EXIT REQUIRED BASED ON OCCUPANT LOAD |
|------------------------------|----|--|
| TABLE 1006.2.1 | | B OCC < 50 OCCUPANTS |
| TABLE 1006.3.2(2) | | |
| 1006, 1010.1.9.1, 1010.1.9.2 | | |
| TABLE 1017.2 | В. | MAX EXIT TRAVEL DISTANCE |
| | | B OCC = 200 FEET |
| | C. | HARDWARE |
| | • | NO SPECIAL KNOWLEDGE HARDWARE TYPE |
| | • | SHALL BE INSTALLED BETWEEN 34" MIN AND 48" AFF |

INTERIOR WALL AND CEILING FINISH MATERIAL

| (CBC CHAPTER 8) TABLE 803.13 | B OCC - FLAME SPREAD AND SMOKE DEVELOPED INDEX EXITS, ENCLOSURES AND PASSAGEWAYS - CLASS 'A' CORRIDORS - CLASS 'B' ROOMS AND ENCLOSED SPACES - CLASS 'C' |
|------------------------------|---|
| | |

PORTABLE FIRE EXTINGUISHERS

| (CFC CHAPTER 9) SECTION 906 TABLE 906.3(1) | A. EXTINGUISHER LOCATIONS: 2 PROVIDED, SEE PLANS B. MAXIMUM FLOOR AREA 3,000 SF (2,500/3,000=.83 1 REQUIRED, 2 PROVIDED (LOW HAZARD OCCUPANCY) C. MAXIMUM TRAVEL DISTANCE 75 FEET |
|--|---|
|--|---|

PLUMBING FIXTURE CALCULATION

| PLUMBING FIXTURE CALCU | <u>LATIO</u> | <u>N</u> | |
|-------------------------------|----------------|--|-------------------------------------|
| (CPC CHAPTER 4) | <u>B OCC</u> | UPANCY | |
| TABLE 422.2 EXCEPTION 3 | | | |
| TABLE A: OCCUPANT LOAD FACTOR | | L AREA = 2,396 | |
| | CALCU | JLATION = 2,396/200 =15/2 = 8 MALES AN | ND 8 FEMALES |
| | MINIM | IUM PLUMBING FIXTURES FOR MALE US | SE: (SEE NOTE #1) |
| | • | 1 WATER CLOSET | (1: 1-50) |
| | • | 1 URINAL | (1:1-100) |
| | • | 1 LAVATORY | (1: 1-75) |
| | MINIM | IUM PLUMBING FIXTURES FOR FEMALE | USE: (SEE NOTE #1) |
| | • | 1 WATER CLOSET | (1: 1-15) |
| | • | 1 LAVATORY | (1: 1-50) |
| | | | (5-7 |
| | MINIM | IUM DRINKING FOUNTAIN: | |
| | • | 1 DRINKING FOUNTAIN | (1 PER 150) |
| | MINIM | IUM SERVICE SINK: | |
| | • | 1 SERVICE SINK | (1 PER 150) |
| | | 132 | (21 21(250) |
| | SUMM | IARY | |
| | <u>3011111</u> | MXX. | |
| | NOTE: | : | |
| | 1. | 422.2 EXCEPTION 3 ALLOWS FOR BUS | INESS OCCUPANICIES WITH AN OCCUPANT |
| | | • | COMODATIONS IN RESTROOM DESIGNED |
| | | FOR A SINGLE OCCUPANT FOR USE BY | Y BOTH SEXES. |
| | 2. | ACCESSORY AREAS HAVE BEEN EXCL | UDED FROM CALCULATIONS. |
| | | | |
| | | | |
| | | | |

| Room Number | Room Name | Room Occupancy | Area | Plumbing Load Factor | Plumbing Occupancy Load | CPC Accessory Use |
|----------------|---------------------------|-------------------|---------|----------------------------|----------------------------|----------------------|
| | | - | | | | |
| | CIRCULATION | В | 367 SF | 200 | 2 | |
| 12 | LOBBY | В | 183 SF | 200 | 1 | |
| 15 | SEATING | В | 28 SF | 200 | 1 | |
| 101 | MAIN LIBRARY | В | 633 SF | 200 | 4 | |
| 102 | SHERIFF OFFICE | В | 130 SF | 200 | 1 | |
| 103 | SHERIFF REPORT WRITING | В | 84 SF | 200 | 1 | |
| 104 | OFFICE | В | 86 SF | 200 | 1 | |
| 105 | BATHROOM 3 | AU | 62 SF | 0 | 0 | |
| 106 | BATHROOM 2 | AU | 63 SF | 0 | 0 | |
| 107 | STORAGE | AU | 19 SF | 0 | 0 | |
| 108 | CHILDRENS SECTION | В | 403 SF | 200 | 3 | |
| 109 | CONFERENCE ROOM | В | 184 SF | 200 | 1 | |
| 110 | SERVER | AU | 17 SF | 0 | 0 | |
| 111 | UTILITY | AU | 20 SF | 0 | 0 | |
| 112 | BATHROOM 1 | AU | 81 SF | 0 | 0 | |
| TOTALS: | | | 2359 SF | | 15 | |

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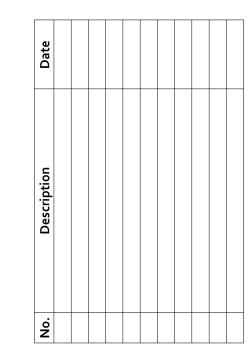
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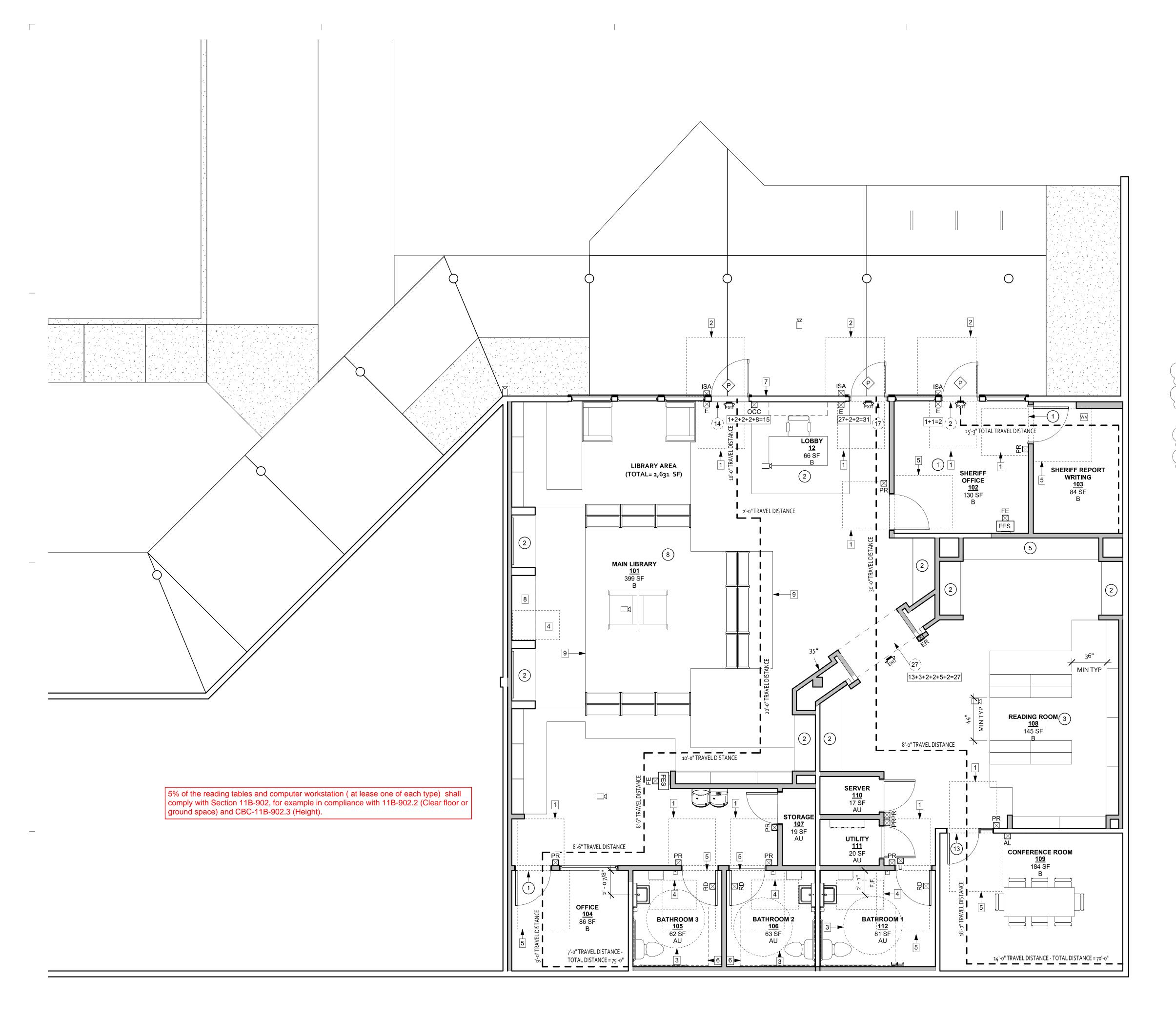
2021020 02.17.2022 1" = 1'-0"

Drawing Title: CODE ANALYSIS

JOBSET

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1 1ST FLOOR PLAN - EGRESS & SIGNAGE

1/4" = 1'-0"

LEGEND

ROOM SYMBOLS

101 ■ ROOM NUMBER 150 SF **→** SQUARE FOOTAGE Occupancy — OCCUPANCY TYPE

EXISTING ANALYSIS SYMBOLS

OCCUPANT LOAD OF SPECIFIC ROOM SF / FLOOR AREA ALLOWANCE PER OCCUPANT = OCCUPANT LOAD ARROW SHOWS DIRECTION OF TRAVEL

ESTIMATED OCCUPANT LOAD TO EXIT FROM MAIN AREA, TYPICALLY 1/2 OR 1/3 THE MAIN AREA OCCUPANT LOAD ARROW SHOWS DIRECTION OF TRAVEL

1+2+3+4=10 COMBINED OCCUPANT LOAD WHEN MULTIPLE LOADS DUMP INTO A SINGLE AREA

> OCCUPANT LOAD AT EXTERIOR DOOR USED FOR MINIMUM CLEAR DOOR WIDTH CALCULATION. OCCUPANT LOAD AT STAIR USED FOR MINIMUM STAIR WIDTH CALCULATION.

ACCESSORY USE = 0 OCCUPANT LOAD

EXIT PATH OF TRAVEL

FIRE EXTINGUISHERS

FIRE EXTINGUISHER: SEMI RECESSED WITH SIGNAGE

HARDWARE

TYPICAL NON LATCHING HARDWARE AT EXIT DOORS. PANIC DÉVICE (EXIT DEVIÇE) AT LATCHING DOORS.

EXIT SIGNS (ILLUMINATED)

ILLUMINATED EXIT SIGN

SIGNAGE LEGEND

TACTILE EXIT SIGN: "EXIT"

• EACH GRADE LEVEL EXTERIOR DOOR WHICH LEADS DIRECTLY TO EXTERIOR.

RESTROOM DOOR/MOUNTED/IDENTIFICATION SIGN/ "MEN" OR "WOMEN" WITH WHEELCHAIR

PERMANENT AND TACTILE ROOM IDENTIFICATION SIGN

ACCESSIBLE ENTRANCE SIGN:

"INTERNATIONAL SYMBOL OF ACCESSIBILITY"

FIRE EXTINGUISHER SIGNAGE

MAXIMUM OCCUPANCY SIGNAGE:

"MAXIMUM OCCUPANCY SHALL NOT EXCEED 49" THE OCCUPANT LOAD OF OUTDOORS AREA SHALL BE ASSIGNED BY THE BUILDING

OFFICIAL IN ACCORDANCE WITH THE ANTICIPATED USE PER CBC 1004.7.

• MOUNT SIGN ON WALL AT 8'-o" AFF TO TOP OF SIGN.

UTILITY ROOM SIGNAGE

TACTILE EXIT ROUTE SIGN: "EXIT ROUTE"

"ASSISTIVE-LISTENING SYSTEM AVAILABLE" SIGN PER 11B-703.5 AND

11B-703.7.2.4.

REFER TO SITE DETAILS FOR SITE SIGNAGE NOT ATTACHED TO BUILDING OR LOCATED WITHIN BUILDING.

GENERAL NOTES

A. FOR SIGNAGE REFER TO SPECIFICATION SECTION 10440, DETAILS AND THIS SHEET. VERIFY ALL LETTER SIGNAGE WITH ARCHITECT PRIOR TO FABRICATION.

COORDINATE THIS PLAN WITH DOCUMENTS INCLUDING BUT NOT LIMITED TO, FLOOR

PLANS, ELEVATIONS, AND CEILING PLANS FOR ALL DISCIPLINES.

INSTALL BLANK SIGN ON OPPOSITE SIDE OF SIGN WHEN INSTALLING ON GLASS.

MOUNT SIGNS BACK TO BACK AT GLAZING.

TENANT TO PROVIDE A MINIMUM OF TWO (2) PORTABLE ASSISTIVE-LISTENING SYSTEMS AVAILABLE AT THE FRONT DESK. PORTABLE ASSISTIVE-LISTENING SYSTEMS SHALL COMPLY WITH CBC SECTION 11B-706.

REVIEWED

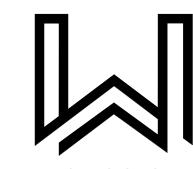
CODE COMPLIANCE

Jul 06, 2022 INTERWEST CONSULTING GROUP

JOB SET

SHEET NOTES

- 48" x 48" MANEUVERING CLEARANCE AS INDICATED, TYPICAL WHERE SHOWN. 60" x 60" MANEUVERING CLEARANCE AS INDICATED, TYPICAL WHERE SHOWN.
- 60 " RADIUS MANEUVERING CLEARANCE AS INDICATED, TYPICAL WHERE SHOWN. 30" x 48" MANEUVERING CLEARANCE AS INDICATED, TYPICAL WHERE SHOWN. 54" X 60" MANEUVERING CLEARANCE AS INDICATED, TYPICAL WHERE SHOWN.
- 60" X 78" MANEUVERING CLEARANCE AS INDICATED, TYPICAL WHERE SHOWN. PORTABLE ASSISTED LISTENING SYSTEM SHALL HAVE AT LEAST ONE TACTILELY DISCERNIBLE INPUT CONTROL FOR EACH FUNCTION PER 11B-707.6.
- COMPUTER WORKSTATION EDGE OF CIRCULATION TYPICAL (GRAPHICAL ONLY)



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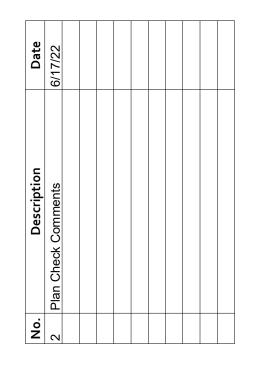
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Proj. No.: 2021020 02.17.2022 1/4" = 1'-0"

Drawn By:

Drawing Title: **EGRESS**

SIGNAGE PLAN

Drawing Number:

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2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

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

CHAPTER 3 5.106.2 STORMWATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB ONE OR MORE ACRES OF 5.106.12 SHADE TREES [DSA-SS]. Shade Trees shall be planted to comply with Sections 5.106.12.1, 5.106.12.2, LAND. Comply with all lawfully enacted stormwater discharge regulations for projects that (1) disturb one acre or Where there is insufficient electrical supply. and 5.106.12.3. Percentages shown shall be measured at noon on the summer solstice. Landscape irrigation **GREEN BUILDING** more of land, or (2) disturb less than one acre of land but are part of a larger common plan of development sale. 2. Where there is evidence suitable to the local enforcing agency substantiating that necessary to establish and maintain tree health shall comply with Section 5.304.6. **SECTION 301 GENERAL** additional local utility infrastructure design requirements, directly related to the Note: Projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of the implementation of Section 5.106.5.3, may adversely impact the construction cost of the 5.106.12.1 Surface parking areas. Shade tree plantings, minimum #10 container size or equal, shall be installed larger common plan of development or sale must comply with the post-construction requirements detailed in the 301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in to provide shade over 50 percent of the parking area within 15 years. applicable National Pollutant Discharge Elimination System (NPDES) General permit for Stormwater Discharges the application checklists contained in this code. Voluntary green building measures are also included in the Associated with Construction and Land Disturbance Activities issued by the State Water Resources Control Board or Exceptions: The surface parking area covered by solar photovoltaic shade structures, or shade TABLE 5.106.5.3.3 application checklists and may be included in the design and construction of structures covered by this code the Lahontan Regional Water Quality Control Board (for projects in the Lake Tahoe Hydrologic Unit). structures, with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5, are not but are not required unless adopted by a city, county, or city and county as specified in Section 101.7. included in the total area calculations. TOTAL NUMBER OF PARKING SPACES NUMBER OF REQUIRED SPACES The NPDES permits require postconstruction runoff (post-project hydrology) to match the preconstruction runoff 301.3 NONRESIDENTIAL ADDITIONS AND ALTERATIONS. [BSC-CG] The provisions (pre-project hydrology) with the installation of postconstruction stormwater management measures. The NPDES 5.106.12.2 Landscape areas. Shade tress plantings, minimum #10 container size or equal shall be installed to of individual sections of Chapter 5 apply to newly constructed buildings, building additions of 1,000 square permits emphasize runoff reduction through on-site stormwater use, interception, evapotranspiration, and infiltration feet or greater, and/or building alterations with a permit valuation of \$200,000 or above (for occupancies within provide shade of 20% of the landscape area within 15 years. through nonstructural controls, such as Low Impact Development (LID) practices, and conversation design measures. 10-25 the authority of California Building Standards Commission). Code sections relevant to additions and Stormwater volume that cannot be addressed using nonstructural practices is required to be captured in structural **Exceptions:** Playfields for organized sport activity are not included in the total area calculation. alterations shall only apply to the portions of the building being added or altered within the scope of the 2 practices and be approved by the enforcing agency. 26-50 permitted work. 5.106.12.3. Hardscape areas. Shade tree plantings, minimum #10 container size or equal shall be installed to 51-75 4 Refer to the current applicable permits on the State Water Resources Control Board website at: provide shade over 20 percent of the hardscape area within 15 years. A code section will be designated by a banner to indicate where the code section only applies to newly www.waterboards.ca.gov/constructionstormwater. Consideration to the stormwater runoff management measures 76-100 constructed buildings [N] or to additions and/or alterations [A]. When the code section applies to both, no should be given during the initial design process for appropriate integration into site development. Exceptions: Walks, hardscape areas covered by solar photovoltaic shade structures, and hardscape banner will be used. 101-150 areas covered by shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5, are not included in the total area calculation. 301.3.1 Nonresidential additions and alterations that cause updates to plumbing fixtures only: 151-200 10 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 201 AND OVER 6% of total1 Note: On and after January 1, 2014, certain commercial real property, as defined in Civil Code Section Architect pursuant to Section 105, comply with Section 5.106.4.2 1101.3, shall have its noncompliant plumbing fixtures replaced with appropriate water-conserving DIVISION 5.2 ENERGY EFFICIENCY Calculation for spaces shall be rounded up to the nearest whole number plumbing fixtures under specific circumstances. See Civil Code Section 1101.1 et seq. for definitions, **5.106.4.1 Bicycle parking. [BSC-CG]** Comply with Sections 5.106.4.1.1 and 5.106.4.1.2; or meet the types of commercial real property affected, effective dates, circumstances necessitating SECTION 5.201 GENERAL applicable local ordinance, whichever is stricter. 5.106.5.3.4 [N] Identification. The service panel or subpanel(s) circuit directory shall identify the replacement of noncompliant plumbing fixtures, and duties and responsibilities for 5.201.1 Scope [BSC-CG]. California Energy Code [DSA-SS]. For the purposes of mandatory energy efficiency reserved overcurrent protective device space(s) for future EV charging as "EV CAPABLE". The raceway ensuring compliance. 5.106.4.1.1 Short-term bicycle parking. If the new project or an addition or alteration is anticipated standards in this code, the California Energy Commission will continue to adopt mandatory building standards. termination location shall be permanently and visibly marked as "EV CAPABLE". to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' 301.3.2 Waste Diversion. The requirements of Section 5.408 shall be required for additions and entrance, readily visible to passers-by, for 5% of new visitor motorized vehicle parking spaces being DIVISION 5.3 WATER EFFICIENCY AND CONSERVATION 5.106.5.3.5 [N] Future charging spaces qualify as designated parking as described in Section 5.106.5.2 alterations whenever a permit is required for work. added, with a minimum of one two-bike capacity rack. Designated parking for clean air vehicles. SECTION 5.301 GENERAL Exception: Additions or alterations which add nine or less visitor vehicular parking spaces. 301.4 PUBLIC SCHOOLS AND COMMUNITY COLLEGES. (see GBSC) 5.301.1 Scope. The provisions of this chapter shall establish the means of conserving water use indoors, outdoors 301.5 HEALTH FACILITIES. (see GBSC) **5.106.4.1.2 Long-term bicycle parking.** For new buildings with tenant spaces that have 10 or more and in wastewater conveyance. 5.106.8 LIGHT POLLUTION REDUCTION. [N].I Outdoor lighting systems shall be designed and installed to comply tenant-occupants, provide secure bicycle parking for 5 percent of the tenant-occupant vehicular parking SECTION 302 MIXED OCCUPANCY BUILDINGS SECTION 5.302 DEFINITIONS with the following: spaces with a minimum of one bicycle parking facility. **5.302.1 Definitions.** The following terms are defined in Chapter 2 (and are included here for reference) 302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building 1. The minimum requirements in the California Energy Code for Lighting Zones 0-4 as defined in Chapter 10, 5.106.4.1.3 For additions or alterations that add 10 or more tenant-occupant vehicular parking spaces, shall comply with the specific green building measures applicable to each specific occupancy. Section 10-114 of the California Administrative Code; and EVAPOTRANSPIRATION ADJUSTMENT FACTOR (ETAF) [DSA-SS]. An adjustment factor when applied to provide secure bicycle parking for 5 percent of the tenant vehicular parking spaces being added, with a 2. Backlight (B) ratings as defined in IES TM-15-11 (shown in Table A-1 in Chapter 8); reference evapotranspiration that adjusts for plant factors and irrigation efficiency, which ae two major influences on minimum of one bicycle parking facility. 3. Uplight and Glare ratings as defined in California Energy Code (shown in Tables 130.2-A and 130.2-B in the amount of water that needs to be applied to the landscape. SECTION 303 PHASED PROJECTS 5.106.4.1.4 For new shell buildings in phased projects provide secure bicycle parking for 5 percent of the 4. Allowable BUG ratings not exceeding those shown in Table 5.106.8, [N] or Comply with a local ordinance FOOTPRINT AREA [DSA-SS]. The total area of the furthest exterior wall of the structure projected to natural grade, anticipated tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility. 303.1 PHASED PROJECTS. For shell buildings and others constructed for future tenant improvements, lawfully enacted pursuant to Section 101.7, whichever is more stringent. not including exterior areas such as stairs, covered walkways, patios and decks. only those code measures relevant to the building components and systems considered to be new 5.106.4.1.5 Acceptable bicycle parking facility for Sections 5.106.4.1.2, 5.106.4.1.3, and 5.106.4.1.4 shall construction (or newly constructed) shall apply. Exceptions: [N] METERING FAUCET. A self-closing faucet that dispenses a specific volume of water for each actuation cycle. The be convenient from the street and shall meet one of the following: volume or cycle duration can be fixed or adjustable. 303.1.1 Initial Tenant improvements. The provisions of this code shall apply only to the initial tenant 1. Luminaires that qualify as exceptions in Section 140.7 of the California Energy Code. 1. Covered, lockable enclosures with permanently anchored racks for bicycles; improvements to a project. Subsequent tenant improvements shall comply with the scoping provisions in Emergency lighting. GRAYWATER. Pursuant to Health and Safety Code Section 17922.12, "graywater" means untreated wastewater that Lockable bicycle rooms with permanently anchored racks; or Section 301.3 non-residential additions and alterations. . Building facade meeting the requirements in Table 140.7-B of the California Energy Code, Part 6. has not been contaminated by any toilet discharge, has not been affected by infectious, contaminated, or unhealthy 3. Lockable, permanently anchored bicycle lockers. 4. Custom lighting features as allowed by the local enforcing agency, as permitted by Section 101.8 bodily wastes, and does not present a threat from contamination by unhealthful processing, manufacturing, or ABBREVIATION DEFINITIONS: Alternate materials, designs and methods of construction. operating wastes. "Graywater" includes, but is not limited to wastewater from bathtubs, showers, bathroom Note: Additional information on recommended bicycle accommodations may be obtained from Department of Housing and Community Development washbasins, clothes washing machines and laundry tubs, but does not include waste water from kitchen sinks or Sacramento Area Bicycle Advocates. California Building Standards Commission DSA-SS Division of the State Architect, Structural Safety 1. See also California Building Code, Chapter 12, Section 1205.6 for college campus lighting 5.106.4.2 Bicycle parking. [DSA-SS] For public schools and community colleges, comply with Sections **OSHPD** Office of Statewide Health Planning and Development requirements for parking facilities and walkways. MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). The California ordinance regulating landscape Low Rise 2. Refer to Chapter 8 (Compliance Forms, Worksheets and Reference Material) for IES TM-15-11 Table design, installation and maintenance practices that will ensure commercial, multifamily and other developer installed High Rise A-1, California Energy Code Tables 130.2-A and 130.2-B. 5.106.4.2.1 Student bicycle parking. Provide permanently anchored bicycle racks conveniently landscapes greater than 2500 square feet meet an irrigation water budget developed based on landscaped area and Additions and Alterations 3. Refer to the California Building Code for requirements for additions and alterations. climatological parameters. accessed with a minimum of four two-bike capacity racks per new building. 5.106.4.2.2 Staff bicycle parking. Provide permanent, secure bicycle parking conveniently accessed MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). [HCD] The California model ordinance with a minimum of two staff bicycle parking spaces per new building. Acceptable bicycle parking facilities CHAPTER 5 (California Code of Regulations, Title 23, Division 2, Chapter 2.7), regulating landscape design, installation and shall be convenient from the street or staff parking area and shall meet one of the following: TABLE 5.106.8 [N] MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT maintenance practices. Local agencies are required to adopt the updated MWELO, or adopt a local ordinance at least NONRESIDENTIAL MANDATORY MEASURES AND GLARE (BUG) RATINGS 1,2 as effective as the MWELO. 1. Covered, lockable enclosures with permanently anchored racks for bicycles; 2. Lockable bicycle rooms with permanently anchored racks; or POTABLE WATER. Water that is drinkable and meets the U.S. Environmental Protection Agency (EPA) Drinking DIVISION 5.1 PLANNING AND DESIGN 3. Lockable, permanently anchored bicycle lockers. LIGHTING LIGHTING LIGHTING ALLOWABLE RATING Water Standards. See definition in the California Plumbing Code, Part 5. ZONE LZ1 ZONE LZ2 ZONE LZ3 ZONE LZ4 SECTION 5.101 GENERAL 5.106.5.2 DESIGNATED PARKING FOR CLEAN AIR VEHICLES. In new projects or additions or alterations POTABLE WATER. [HCD] Water that is satisfactory for drinking, culinary, and domestic puroses, and meets the U.S. that add 10 or more vehicular parking spaces, provide designated parking for any combination of low-emitting, 5.101.1 SCOPE MAXIMUM ALLOWABLE Environmental Protection Agency (EPA) Drinking Water Standards and the requirements of the Health Authority fuel-efficient and carpool/van pool vehicles as follows: The provisions of this chapter outline planning, design and development methods that include environmentally **BACKLIGHT RATING 3** Having Jurisdiction. responsible site selection, building design, building siting and development to protect, restore and enhance the Luminaire greater than 2 environmental quality of the site and respect the integrity of adjacent properties. **TABLE 5.106.5.2 - PARKING** RECYCLED WATER. Water which, as a result of treatment of waste, is suitable for a direct beneficial use or a mounting heights (MH) from No Limit No Limit No Limit No Limit controlled use that would not otherwise occur [Water Code Section 13050 (n)]. Simply put, recycled water is water property line **SECTION 5.102 DEFINITIONS** TOTAL NUMBER OF PARKING SPACES NUMBER OF REQUIRED SPACES treated to remove waste matter attaining a quality that is suitable to use the water again. 5.102.1 DEFINITIONS Luminaire back hemisphere is **B**3 The following terms are defined in Chapter 2 (and are included here for reference) 0-9 SUBMETER. A meter installed subordinate to a site meter. Usually used to measure water intended for one purpose. 1-2 MH from property line such as landscape irrigation. For the purposes of CALGreen, a dedicated meter may be considered a submeter. 10-25 CUTOFF LUMINAIRES. Luminaires whose light distribution is such that the candela per 1000 lamp lumens does not Luminaire back hemisphere is B2 numerically exceed 25 (2.5 percent) at an angle of 90 degrees above nadir, and 100 (10 percent) at a vertical angle of WATER BUDGET. Is the estimated total landscape irrigation water use which shall not exceed the maximum applied 25-50 0.5-1 MH from property line 80 degrees above nadir. This applies to all lateral angles around the luminaire. water allowance calculated in accordance with the Department of Water Resources Model Efficient Landscape Luminaire back hemisphere is 51-75 Ordinance (MWELO). LOW-EMITTING AND FUEL EFFICIENT VEHICLES. less than 0.5 MH from property **SECTION 5.303 INDOOR WATER USE** 76-100 8 Eligible vehicles are limited to the following: 5.303.1 METERS. Separate submeters or metering devices shall be installed for the uses described in Sections 101-150 11 MAXIMUM ALLOWABLE 1. Zero emission vehicle (ZEV), including neighborhood electric vehicles (NEV), partial zero emission UPLIGHT RATING (U) vehicle (PZEV), advanced technology PZEV (AT ZEV) or CNG fueled (original equipment manufacturer 151-200 16 5.303.1.1 Buildings in excess of 50,000 square feet. Separate submeters shall be installed as follows: only) regulated under Health and Safety Code section 43800 and CCR, Title 13, Sections 1961 and 1962. For area lighting 4 N/A U0 U0 U0 U0 2. High-efficiency vehicles, regulated by U.S. EPA, bearing High-Occupancy Vehicle (HOV) car pool lane 201 AND OVER AT LEAST 8% OF TOTAL 1. For each individual leased, rented or other tenant space within the building projected to consume stickers issued by the Department of Motor Vehicles. For all other outdoor more than 100 gal/day (380 L/day), including, but not limited to, spaces used for laundry or cleaners, N/A U2 UR lighting,including decorative restaurant or food service, medical or dental office, laboratory, or beauty salon or barber shop. NEIGHBORHOOD ELECTRIC VEHICLE (NEV). A motor vehicle that meets the definition of "low-speed vehicle" 5.106.5.2.1 - Parking stall marking. Paint, in the paint used for stall striping, the following luminaires either in Section 385.5 of the Vehicle Code or in 49CFR571.500 (as it existed on July 1, 2000), and is certified to 2. Where separate submeters for individual building tenants are unfeasible, for water supplied to the characters such that the lower edge of the last word aligns with the end of the stall striping and is MAXIMUM ALLOWABLE visible beneath a parked vehicle: CLEAN AIR / VAN POOL / EV following subsystems: Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s). GLARE RATING 5 (G) TENANT-OCCUPANTS. Building occupants who inhabit a building during its normal hours of operation as permanent b. Makeup water for evaporative coolers greater than 6 gpm (0.04 L/s). Note: Vehicles bearing Clean Air Vehicle stickers from expired HOV lane programs may be Luminaire greater than 2 MH occupants, such as employees, as distinguished from customers and other transient visitors. c. Steam and hot water boilers with energy input more than 500,000 Btu/h (147 kW). G2 G3 G4 considered eligible for designated parking spaces. from property line VANPOOL VEHICLE. Eligible vehicles are limited to any motor vehicle, other than a motortruck or truck tractor, 5.303.1.2 Excess consumption. A separate submeter or metering device shall be provided for any tenant uminaire front hemisphere is 5.106.5.3 Electric vehicle (EV) charging. [N] Construction shall comply with Section 5.106.5.3.1 designed for carrying more than 10 but not more than 15 persons including the driver, which is maintained and used N/A G2 within a new building or within an addition that is projected to consume more than 1,000 gal/day. G0 G1 I-2 MH from property line primarily for the nonprofit work-related transportation of adults for the purpose of ridesharing. or Section 5.106.5.3.2 to facilitate future installation of electric vehicle supply equipment (EVSE). When EVSE(s) is/are installed, it shall be in accordance with the California Building Code, the Luminaire front hemisphere is 5.303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and N/A G0 G0 G1 Note: Source: Vehicle Code, Division 1, Section 668 California Electrical Code and as follows: 0.5-1 MH from property line urinals) and fittings (faucets and showerheads) shall comply with the following: ZEV. Any vehicle certified to zero-emission standards. Luminaire back hemisphere is 5.106.5.3.1 Single charging space requirements. [N] When only a single charging space is 5.303.3.1 Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per N/A G0 G0 less than 0.5 MH from property required per Table 5.106.5.3.3, a raceway is required to be installed at the time of construction flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense SECTION 5.106 SITE DEVELOPMENT and shall be installed in accordance with the California Electrical Code. Construction plans and Specification for Tank-Type toilets. 5.106.1 STORM WATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB LESS THAN ONE ACRE specifications shall include, but are not limited to, the following: 1. IESNA Lighting Zones 0 and 5 are not applicable; refer to Lighting Zones as defined in the OF LAND. Newly constructed projects and additions which disturb less than one acre of land, and are not part of a Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of California Energy Code and Chapter 10 of the Callifornia Administrative Code. larger common plan of development or sale, shall prevent the pollution of storm water runoff from the construction two reduced flushes and one full flush. The type and location of the EVSE. activities through one or more of the following measures: 2. For property lines that abut public walkways, bikeways, plazas and parking lots, the property 2. A listed raceway capable of accommodating a 208/240 -volt dedicated branch circuit. 5.303.3.2 Urinals. line may be considered to be 5 feet beyond the actual property line for purpose of determining The raceway shall not be less than trade size 1". 5.106.1.1 Local ordinance. Comply with a lawfully enacted storm water management and/or erosion control 5.303.3.2.1 Wall-mounted Urinals. The effective flush volume of wall-mounted urinals shall not exceed compliance with this section. For property lines that abut public roadways and public transit 4. The raceway shall originate at a service panel or a subpanel serving the area, and shall 0.125 gallons per flush. corridors, the property line may be considered to be the centerline of the public roadway or public terminate in close proximity to the proposed location of the charging equipment and listed transit corridor for the purpose of determining compliance with this section. **5.106.1.2 Best Management Practices (BMPs).** Prevent the loss of soil through wind or water erosion by suitable cabinet, box, enclosure or equivalent. **5.303.3.2.2 Floor-mounted Urinals.** The effective flush volume of floor-mounted or other urinals shall implementing an effective combination of erosion and sediment control and good housekeeping BMPs. 5. The service panel or subpanel shall have sufficient capacity to accommodate a minimum 3. If the nearest property line is less than or equal to two mounting heights from the back not exceed 0.5 gallons per flush. 40-ampere dedicated branch circuit for the future installation of the EVSE. hemisphere of the luminaire distribution, the applicable reduced Backlight rating shall be met. 1. Soil loss BMPs that should be considered for implementation as appropriate for each project include 5.303.3.3 Showerheads. [BSC-CG] but are not limited to, the following: 4. General lighting luminaires in areas such as outdoor parking, sales or storage lots shall meet 5.106.5.3.2 Multiple charging space requirements. [N] When multiple charging spaces are **5.303.3.3.1 Single showerhead.** Showerheads shall have a maximum flow rate of not more than 1.8 a. Scheduling construction activity during dry weather, when possible. these reduced ratings. Decorative luminaires located in these areas shall meet U-value limits for gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA required per Table 5.106.5.3.3 raceway(s) is/are required to be installed at the time of construction b. Preservation of natural features, vegetation, soil, and buffers around surface waters. "all other outdoor lighting". WaterSense Specification for Showerheads. and shall be installed in accordance with the California Electrical Code. Construction plans and Drainage swales or lined ditches to control stormwater flow. specifications shall include, but are not limited to, the following: 5. If the nearest property line is less than or equal to two mounting heights from the front d. Mulching or hydroseeding to stabilize disturbed soils. 5.303.3.3.2 Multiple showerheads serving one shower. When a shower is served by more than one Erosion control to protect slopes. hemisphere of the luminaire distribution, the applicable reduced Glare rating shall be met. showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a The type and location of the EVSE. Protection of storm drain inlets (gravel bags or catch basin inserts). single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to 2. The raceway(s) shall originate at a service panel or a subpanel(s) serving the area, and Perimeter sediment control (perimeter silt fence, fiber rolls). allow only one shower outlet to be in operation at a time. shall terminate in close proximity to the proposed location of the charging equipment and h. Sediment trap or sediment basin to retain sediment on site. Note: A hand-held shower shall be considered a showerhead. into listed suitable cabinet(s), box(es), enclosure(s) or equivalent. Stabilized construction exits. Wind erosion control. 3. Plan design shall be based upon 40-ampere minimum branch circuits. 5.106.10 GRADING AND PAVING. Construction plans shall indicate how site grading or a drainage system will Other soil loss BMPs acceptable to the enforcing agency. 4. Electrical calculations shall substantiate the design of the electrical system, to include the **REVIEWED** manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water 2. Good housekeeping BMPs to manage construction equipment, materials, non-stormwater discharges rating of equipment and any on-site distribution transformers and have sufficient capacity include, but are not limited to, the following: and wastes that should be considered for implementation as appropriate for each project include, but to simultaneously charge all required EVs at its full rated amperage. are not limited to, the following: CODE COMPLIANCE 5. The service panel or subpanel(s) shall have sufficient capacity to accommodate the Dewatering activities. required number of dedicated branch circuit(s) for the future installation of the EVSE. Water collection and disposal systems. Material handling and waste management. Jul 06, 2022 French drains. c. Building materials stockpile management. 5.106.5.3.3 EV charging space calculations. [N] Table 5.106.5.3.3 shall be used to determine if d. Management of washout areas (concrete, paints, stucco, etc.). Water retention gardens

single or multiple charging space requirements apply for the future installation of EVSE.

Exceptions: On a case-by-case basis where the local enforcing agency has determined EV

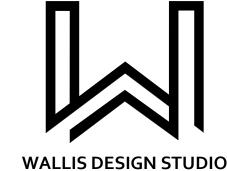
charging and infrastructure is not feasible based upon one or more of the following conditions:

e. Control of vehicle/equipment fueling to contractor's staging area.

h. Other housekeeping BMPs acceptable to the enforcing agency.

Vehicle and equipment cleaning performed off site.

Spill prevention and control.



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2021020 02.17.2022 12" = 1'-0"

Author Drawn By:

JOB SET Ao.4

INTERWEST CONSULTING GROUP

5. Other water measures which keep surface water away from buildings and aid in groundwater

Exception: Additions and alterations not altering the drainage path.

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

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

SECTION 5.407 WATER RESISTANCE AND MOISTURE MANAGEMENT 5.410.2 COMMISSIONING. [N] New buildings 10,000 square feet and over. For new buildings 10,000 square feet 5.410.4.4 Reporting. After completion of testing, adjusting and balancing, provide a final report of testing and over, building commissioning shall be included in the design and construction processes of the building project to 5.407.1 WEATHER PROTECTION. Provide a weather-resistant exterior wall and foundation envelope as required by signed by the individual responsible for performing these services. 5.303.3.4 Faucets and fountains. California Building Code Section 1402.2 (Weather Protection), manufacturer's installation instructions or local verify that the building systems and components meet the owner's or owner representative's project requirements. Commissioning shall be performed in accordance with this section by trained personnel with experience ordinance, whichever is more stringent. 5.303.3.4.1 Nonresidential Lavatory faucets. Lavatory faucets shall have a maximum flow rate of not 5.410.4.5 Operation and maintenance (O & M) manual. Provide the building owner or representative with on projects of comparable size and complexity. For I-occupancies that are not regulated by OSHPD or for more than 0.5 gallons per minute at 60 psi. detailed operating and maintenance instructions and copies of guaranties/warranties for each system, O & M 5.407.2 MOISTURE CONTROL. Employ moisture control measures by the following methods. I-occupancies and L-occupancies that are not regulated y the California Energy Code Section 100.0 Scope, all instructions shall be consistent with OSHA requirements in CCR, Title 8, Section 5142, and other related requirements in Sections 5.410.2 through 5.410.2.6 shall apply. 5.303.3.4.2 Kitchen faucets. Kitchen faucets shall have a maximum flow rate of not more than 1.8 5.407.2.1 Sprinklers. Design and maintain landscape irrigation systems to prevent spray on structures. gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons 5.410.4.5.1 Inspections and reports. Include a copy of all inspection verifications and reports required ventilation, air conditioning (HVAC) systems and controls, indoor lighting systems and controls, as well as water 5.407.2.2 Entries and openings. Design exterior entries and/or openings subject to foot traffic or wind-driven heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements by the enforcing agency. 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 5.407.2.2.1 Exterior door protection. Primary exterior entries shall be covered to prevent water Commissioning requirements shall include: gallons per minute/20 [rim space (inches) at 60 psi]. **DIVISION 5.5 ENVIRONMENTAL QUALITY** intrusion by using nonabsorbent floor and wall finishes within at least 2 feet around and perpendicular to such openings plus at least one of the following: Owner's or Owner representative's project requirements. **5.303.3.4.4 Metering faucets.** Metering faucets shall not deliver more than 0.20 gallons per cycle. SECTION 5.501 GENERAL Basis of design. 5.501.1 SCOPE. The provisions of this chapter shall outline means of reducing the quantity of air contaminants that . An installed awning at least 4 feet in depth. Commissioning measures shown in the construction documents. 5.303.3.4.5 Metering faucets for wash fountains. Metering faucets for wash fountains shall have a are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors. 2. The door is protected by a roof overhang at least 4 feet in depth. Commissioning plan. maximum flow rate of not more than 0.20 gallons per minute/20 [rim space (inches) at 60 psi]. . The door is recessed at least 4 feet. Functional performance testing. SECTION 5.502 DEFINITIONS 4. Other methods which provide equivalent protection. Documentation and training. Note: Where complying faucets are unavailable, aerators or other means may be used to achieve 5.502.1 DEFINITIONS. The following terms are defined in Chapter 2 (and are included here for reference) Commissioning report. reduction. **5.407.2.2.2 Flashing.** Install flashings integrated with a drainage plane. ARTERIAL HIGHWAY. A general term denoting a highway primarily for through traffic usually on a continuous route. 5.303.4 COMMERCIAL KITCHEN EQUIPMENT. A-WEIGHTED SOUND LEVEL (dBA). The sound pressure level in decibels as measured on a sound level meter SECTION 5.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND 1. Unconditioned warehouses of any size. using the internationally standardized A-weighting filter or as computed from sound spectral data to which A-weighting 5.303.4.1 Food Waste Disposers. Disposers shall either modulate the use of water to no more than 1 gpm 2. Areas less than 10,000 square feet used for offices or other conditioned accessory spaces within RECYCLING when the disposer is not in use (not actively grinding food waste/no-load) or shall automatically shut off after no unconditioned warehouses 5.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 65% of the more than 10 minutes of inactivity. Disposers shall use no more than 8 gpm of water. 3. Tenant improvements less than 10,000 square feet as described in Section 303.1.1. 1 BTU/HOUR, British thermal units per hour, also referred to as Btu. The amount of heat required to raise one pound non-hazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or Note: This code section does not affect local jurisdiction authority to prohibit or require disposer 4. Open parking garages of any size, or open parking garage areas, of any size, within a structure of water one degree Fahrenheit per hour, a common measure of heat transfer rate. A ton of refrigeration is 12,000 Btu, meet a local construction and demolition waste management ordinance, whichever is more stringent. the amount of heat required to melt a ton (2,000 pounds) of ice at 320 Fahrenheit. Note: For the purposes of this section, unconditioned shall mean a building, area, or room which does not 5.303.5 AREAS OF ADDITION OR ALTERATION. For those occupancies within the authority of the California 5.408.1.1 Construction waste management plan. Where a local jurisdiction does not have a construction and provide heating and or air conditioning. COMMUNITY NOISE EQUIVALENT LEVEL (CNEL). A metric similar to the day-night average sound level (Ldn), demolition waste management ordinance, submit a construction waste management plan that: Building Standards Commission as specified in Section 103, the provisions of Section 5.303.3 and 5.303.4 shall apply except that a 5 decibel adjustment is added to the equivalent continuous sound exposure level for evening hours (7pm to new fixtures in additions or areas of alteration to the building. Informational Notes 1. Identifies the construction and demolition waste materials to be diverted from disposal by efficient to 10pm) in addition to the 10 dB nighttime adjustment used in the Ldn. 5.303.6 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures and fittings shall be installed usage, recycling, reuse on the project or salvage for future use or sale. 1. IAS AC 476 is an accreditation criteria for organizations providing training and/or certification of COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium 2. Determines if construction and demolition waste materials will be sorted on-site (source-separated) or in accordance with the California Plumbing Code, and shall meet the applicable standards referenced in Table 1701.1 commissioning personnel. AC 476 is available to the Authority Having Jurisdiction as a reference for density fiberboard, "Composite wood products" does not include hardboard, structural plywood, structural of the California Plumbing Code and in Chapter 6 of this code. qualifications of commissioning personnel. AC 476 des not certify individuals to conduct functional panels, structural composite lumber, oriented strand board, glued laminated timber, timber, prefabricated wood I-joists Identifies diversion facilities where construction and demolition waste material collected will be taken. performance tests or to adjust and balance systems. or finger-jointed lumber, all as specified in California Code of Regulations (CCR), Title 17, Section 93120.1(a). 4. Specifies that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both. 2. Functional performance testing for heating, ventilation, air conditioning systems and lighting controls SECTION 5.304 OUTDOOR WATER USE Note: See CCR, Title 17, Section 93120.1. must be performed in compliance with the California Energy Code. 5.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. Nonresidential developments shall comply **5.408.1.2 Waste Management Company.** Utilize a waste management company that can provide verifiable DAY-NIGHT AVERAGE SOUND LEVEL (Ldn). The A-weighted equivalent continuous sound exposure level for a with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water documentation that the percentage of construction and demolition waste material diverted from the landfill Efficient Landscape Ordinance (MWELO), whichever is more stringent. 24-hour period with a 10 dB adjustment added to sound levels occurring during nighttime hours (10p.m. to 7 a.m.). complies with this section. 5.410.2.1 Owner's or Owner Representative's Project Requirements (OPR). [N] The expectations and requirements of the building appropriate to its phase shall be documented before the design phase of the DECIBEL (db). A measure on a logarithmic scale of the magnitude of a particular quantity (such as sound pressure, Note: The owner or contractor shall make the determination if the construction and demolition waste material project begins. This documentation shall include the following: 1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code of Regulations sound power, sound intensity) with respect to a reference quantity. will be diverted by a waste management company. Environmental and sustainability goals. Title 23, Chapter 2.7, Division 2. Building sustainable goals. ELECTRIC VEHICLE (EV). An automotive-type vehicle for on-road use, such as passenger automobiles, buses, 2. MWELO and supporting documents, including a water budget calculator, are available at: Exceptions to Sections 5.408.1.1 and 5.408.1.2: Indoor environmental quality requirements. trucks, vans, neighborhood electric vehicles, electric motorcycles, and the like, primarily powered by an electric motor https://www.water.ca.gov/. 4. Project program, including facility functions and hours of operation, and need for after hours that draws current from a rechargeable storage battery, fuel cell, photovoltaic array, or other source of electric current. Excavated soil and land-clearing debris. 2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle 5.304.6 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. For public schools and community colleges Plug-in hybrid electric vehicles (PHEV) are considered electric vehicles. For purposes of the California Electrical Code, Equipment and systems expectations. landscape projects as described in Sections 5.304.6.1 and 5.304.6.2 shall comply with the California Department of off-road, self-propoelled electric vehicles, such as industrial trucks, hoists, lifts, transports, golf carts, airline ground facilities capable of compliance with this item do not exist. 6. Building occupant and operation and maintenance (O&M) personnel expectations. Water Resources Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 490 of Chapter support equipment, tractors, boats, and the like, are not included. 3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities 2.7, Division 2, Title 23, California Code of Regulations, except that the evapotranspiration adjustment factor (ETAF) 5.410.2.2 Basis of Design (BOD). [N] A written explanation of how the design of the building systems meets ELECTRIC VEHICLE CHARGING STATION(S) (EVCSj). One or more spaces intended for charging electric vehicles. shall be 0.65 with an additional water allowance for special landscape areas (SLA) of 0.35. the OPR shall be completed at the design phase of the building project. The Basis of Design document shall 5.408.1.3 Waste stream reduction alternative. The combined weight of new construction disposal that does cover the following systems: ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE). The conductors, including the ungrounded, grounded, and Exception: Any project with an aggregate landscape area of 2,500 square feet or less may comply with the not exceed two pounds per square foot of building area may be deemed to meet the 65% minimum requirement equipment grounding conductors and the electric vehicle connectors, attachment plugs, and all other fittings, devices, prescriptive measures contained in Appendix D of the MWELO. as approved by the enforcing agency. Renewable energy systems. power outlets, or apparatus installed specifically for the purpose of transferring energy between the premises wiring Landscape irrigation systems. 5.304.6.1 Newly constructed landscapes. New construction projects with an aggregate landscape 5.408.1.4 Documentation. Documentation shall be provided to the enforcing agency which demonstrates and the electric vehicle. Water reuse system. area equal to or greater than 500 square feet. compliance with Sections 5.408.1.1, through 5.408.1.3. The waste management plan shall be updated as ENERGY EQUIVALENT (NOISE) LEVEL (Leq). The level of a steady noise which would have the same energy as necessary and shall be accessible during construction for examination by the enforcing agency. **5.410.2.3 Commissioning plan. [N]** Prior to permit issuance a commissioning plan shall be completed to the fluctuating noise level integrated over the time of period of interest. 5.304.6.2 Rehabilitated landscapes. Rehabilitated landscape projects with an aggregate document how the project will be commissioned. The commissioning plan shall include the following: landscape area equal to or greater than 1,200 square feet. General project information. EXPRESSWAY. An arterial highway for through traffic which may have partial control of access, but which may or may Commissioning goals. 1. Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" not be divided or have grade separations at intersections. 3. Systems to be commissioned. Plans to test systems and components shall include: located at www.bsc.ca.gov/Home/CALGreen.aspx may be used to assist in documenting compliance a. An explanation of the original design intent. FREEWAY. A divided arterial highway with full control of access and with grade separations at intersections. with the waste management plan. b. Equipment and systems to be tested, including the extent of tests. DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE ssors can be located at the California Department of Functions to be tested GLOBAL WARMING POTENTIAL (GWP). The radiative forcing impact of one mass-based unit of a given greenhouse Resources Recycling and Recovery (CalRecycle). **EFFICIENCY** Conditions under which the test shall be performed. gas relative to an equivalent unit of carbon dioxide over a given period of time. Carbon dioxide is the reference Measurable criteria for acceptable performance. compound with a GWP of one. 5.408.2 UNIVERSAL WASTE. [A] Additions and alterations to a building or tenant space that meet the scoping Commissioning team information SECTION 5.401 GENERAL provisions in Section 301.3 for nonresidential additions and alterations, shall require verification that Universal Waste 5. Commissioning process activities, schedules and responsibilities. Plans for the completion of GLOBAL WARMING POTENTIAL VALUE (GWP VALUE). A 100-year GWP value published by the 5.401.1 SCOPE. The provisions of this chapter shall outline means of achieving material conservation and resource items such as fluorescent lamps and ballast and mercury containing thermostats as well as other California prohibited commissioning shall be included. Intergovernmental Panel on Climate Change (IPCC) in either its Second Assessment Report (SAR) (IPCC, 1995); or efficiency through protection of buildings from exterior moisture, construction waste diversion, employment of Universal Waste materials are disposed of properly and are diverted from landfills. A list of prohibited Universal Waste its Fourth Assessment A-3 Report (AR4) (IPCC, 2007). The SAR GWP values are found in column "SAR (100-yr)" of techniques to reduce pollution through recycling of materials, and building commissioning or testing and adjusting. materials shall be included in the construction documents. 5.410.2.4 Functional performance testing. [N] Functional performance tests shall demonstrate the correct Table 2.14.; the AR4 GWP values are found in column "100 yr" of Table 2.14. installation and operation of each component, system and system-to-system interface in accordance with the Note: Refer to the Universal Waste Rule link at: approved plans and specifications. Functional performance testing reports shall contain information addressing SECTION 5.402 DEFINITIONS http://www.dtsc.ca.gov/LawsRegsPolicies/Regs/upload/OEAR-A_REGS_UWR_FinalText.pdf HIGH-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that is: (a) a chlorofluorocarbon, a each of the building components tested, the testing methods utilized, and include any readings and adjustments hdrochlorofluorocarbon, a hydrofluorocarbon, a perfluorocarbon, or any compound or blend of compounds, with a **5.402.1 DEFINITIONS.** The following terms are defined in Chapter 2 (and are included here for reference) GWP value equal to or greater than 150, or (B) any ozone depleting substance as defined in Title 40 of the Code of 5.408.3 EXCAVATED SOIL AND LAND CLEARING DEBRIS. 100 percent of trees, stumps, rocks and associated ADJUST. To regulate fluid flow rate and air patterns at the terminal equipment, such as to reduce fan speed or adjust Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009). vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such 5.410.2.5 Documentation and training. [N] A Systems Manual and Systems Operations Training are required, material may be stockpiled on site until the storage site is developed. including Occupational Safety and Health Act (OSHA) requirements in California Code of Regulations (CCR), LONG RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, BALANCE. To proportion flows within the distribution system, including sub-mains, branches and terminals, Title 8, Section 5142, and other related regulations. with a radius 1.5 times the pipe diameter. **Exception:** Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation. LOW-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that: (A) has a GWP value less than 5.410.2.5.1 Systems manual. [N] Documentation of the operational aspects of the building shall be 150, and (B) is not an ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, BUILDING COMMISSIONING. A systematic quality assurance process that spans the entire design and construction completed within the systems manual and delivered to the building owner or representative. The sec.82.3 (as amended March 10, 2009). process, including verifying and documenting that building systems and components are planned, designed, installed, 1. If contamination by disease or pest infestation is suspected, contact the County Agricultural systems manual shall include the following: tested, operated and maintained to meet the owner's project requirements. Commissioner and follow its direction for recycling or disposal of the material. . Site information, including facility description, history and current requirements. MERV. Filter minimum efficiency reporting value, based on ASHRAE 52.2-1999. 2. For a map of know pest and/or disease quarantine zones, consult with the California Department of Site contact information. ORGANIC WASTE. Food waste, green waste, landscape and pruning wste, nonhazardous wood waste, and food Food and Agriculture. (www.cdfa.ca.gov) 3. Basic operations and maintenance, including general site operating procedures, basic MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a soiled paper waste that is mixed in with food waste. troubleshooting, recommended maintenance requirements, site events log. compound to the "Base REactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to Major systems. SECTION 5.410 BUILDING MAINTENANCE AND OPERATIONS **TEST.** A procedure to determine quantitative performance of a system or equipment hundreths of a gram (g O³/g ROC). Site equipment inventory and maintenance notes. 5.410.1 RECYCLING BY OCCUPANTS. Provide readily accessible areas that serve the entire building and are . A copy of verifications required by the enforcing agency or this code. PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for all ingredients in a product subject to this identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) Other resources and documentation, if applicable. article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive. product (excluding container and packaging). 5.410.2.5.2 Systems operations training. [N] A program for training of the appropriate maintenance Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources PSIG. Pounds per square inch, guage. staff for each equipment type and/or system shall be developed and documented in the commissioning Code 42649.82 (a)(2)(A) et seq. shall also be exempt from the organic waste portion of this section. report and shall include the following: REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to 1. System/equipment overview (what it is, what it does and with what other systems and/or 5.410.1.1 Additions. All additions conducted within a 12-month period under single or multiple permits, equipment it interfaces). resulting in an increase of 30% or more in floor area, shall provide recycling areas on site. 2. Review and demonstration of servicing/preventive maintenance. SCHRADER ACCESS VALVES. Access fittings with a valve core installed. 3. Review of the information in the Systems Manual. Exception: Additions within a tenant space resulting in less than a 30% increase in the tenant space Review of the record drawings on the system/equipment. SHORT RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.0 times the pipe diameter 5.410.1.2 Sample ordinance. Space allocation for recycling areas shall comply with Chapter 18, Part 3, 5.410.2.6 Commissioning report. [N] A report of commissioning process activities undertaken through the Division 30 of the Public Resources Code. Chapter 18 is known as the California Solid Waste Reuse and SUPERMARKET. For the purposes of Section 5.508.2, a supermarket is any retail food facility with 8,000 square feet design and construction phases of the building project shall be completed and provided to the owner or or more conditioned area, and that utilizes either refrigerated display cases, or walk-in coolers or freezers connected Recycling Access Act of 1991 (Act). to remote compressor units or condensing units. Note: A sample ordinance for use by local agencies may be found in Appendix A of the document at the VOC. A volatile organic compound broadly defined as a chemical compound based on carbon chains or rings with 5.410.4 TESTING AND ADJUSTING. New buildings less than 10,000 square feet. Testing and adjusting of CalRecycle's web site. vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain systems shall be required for new buildings less than 10,000 square feet or new systems to serve an addition or hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a) alteration subject to Section 303.1. Note: Where specific regulations are cited from different agencies such as SCAQMD, ARB, etc., the VOC definition included in that specific regulation is the one that prevails for the specific measure in question. Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including SECTION 5.503 FIREPLACES heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting system and controls, as well 5.503.1 FIREPLACES. Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning woodstove or pellet stove, and refer to residential requirements in the California Energy Code, Title 24, Part 6, requirements and Sections 120.5, 120.6, 130.4, and 140.9(b)3 for additional testing requirements of specific Subchapter 7, Section 150. Woodstoves, pellet stoves and fireplaces shall comply with applicable local ordinances. **REVIEWED** 5.503.1.1 Woodstoves. Woodstoves and pellet stoves shall comply with U.S. EPA New Source Performance **5.410.4.2 Systems.** Develop a written plan of procedures for testing and adjusting systems. Systems to be Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified CODE COMPLIANCE included for testing and adjusting shall include at a minimum, as applicable to the project: to meet the emission limits. Jul 06, 2022 Renewable energy systems. SECTION 5.504 POLLUTANT CONTROL Landscape irrigation systems. INTERWEST CONSULTING GROUP 5.504.1 TEMPORARY VENTILATION. The permanent HVAC system shall only be used during construction if Water reuse systems. necessary to condition the building or areas of addition or alteration within the required temperature range for material and equipment installation. If the HVAC system is used during construction, use return air filters with a 5.410.4.3 Procedures. Perform testing and adjusting procedures in accordance with manufacturer's Minimum Efficiency Reporting Value (MERV) of 8, based on ASHRAE 52.2-1999, or an average efficiency of specifications and applicable standards on each system. 30% based on ASHRAE 52.1-1992 Replace all filters immediately prior to occupancy, or, if the building is occupied during alteration, at the conclusion of construction.

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

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

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

Council National Standards or as approved by the enforcing agency.



WALLIS DESIGN STUDIO ARCHITECTS, INC.

RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER

415 W Main St Grass Valley, CA 95945 (530) 264-7010 WallisDesignStudio.com

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2021020 02.17.2022 12" = 1'-0"

Drawing Title: CAL-GREEN

JOB SET Ao.5

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

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

rough installation and during storage on the construction site until final startup of the heating, cooling and ventilation equipment, all duct and other related air distribution component openings shall be covered with tape, plastic,

may enter the system.

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

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

RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

5.504.4 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.6. 5.504.4.1 Adhesives, sealants and caulks. Adhesives, sealants, and caulks used on the project shall meet the requirements of the following standards: 1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such

aerosol products as specified in subsection 2, below.

2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of California Code of Regulations, Title 17, commencing

(chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for

products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds

| RRENT VOC LIMI |
|----------------|
| 50 |
| 50 |
| 150 |
| 100 |
| 60 |
| 50 |
| 65 |
| 50 |
| 50 |
| 50 |
| 70 |
| 100 |
| 250 |
| 50 |
| |
| 510 |
| 490 |
| 325 |
| 250 |
| 550 |
| 80 |
| 250 |
| 140 |
| 250 |
| |
| 30 |
| 50 |
| 50 |
| 30 |
| 80 |
| _ |

- 1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.
- 2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168, www.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF

| ABLE | 5.504.4 | .2 - S | EALAN | IT VOC | LIMIT | |
|--------|---------|--------|-------|--------|-------|--|
| 7 11 7 | | | | | | |

| 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 |

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

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

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

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

3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008, MORE INFORMATION IS AVAILABLE

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

 Manufacturer's product specification 2. Field verification of on-site product containers

5.504.4.4 Carpet Systems. All carpet installed in the building interior shall meet at least one of the testing and product requirements:

1. Carpet and Rug Institute's Green Label Plus Program.

Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version 1.1, February 2010 (also known as CDPH Standard Method V1.1 or Specification 01350).

NSF/ANSI 140 at the Gold level or higher;

Table 5.504.4.5.

4. Scientific Certifications Systems Sustainable Choice; or 5. Compliant with the Collaborative for High Performance Schools California (2014 CA-CHPS) Criteria listed in the CHPS High Performance Product Database.

5.504.4.4.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the

requirements of the Carpet and Rug Institute Green Label program.

5.504.4.4.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 5.504.4.1. 5.504.4.5 Composite wood products. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the buildings shall meet the requirements for

formaldehyde as specified in ARB's Air Toxics Control Measure (ATCM) for Composite Wood (17 CCR 93120 et

seq.). Those materials not exempted under the ATCM must meet the specified emission limits, as shown in

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

1. Product certifications and specifications. Chain of custody certifications.

3. Product labeled and invoiced as meeting the Composite Wood Products regulation (see

CCR, Title 17, Section 93120, et seq.). 4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the

Engineered Wood Association, the Australian AS/NZS 2269 or European 636 3S

Other methods acceptable to the enfo **REVIEWED**

CODE COMPLIANCE

Jul 06, 2022 INTERWEST CONSULTING GROUP

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

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

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

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:

1. Certified under the Resilient Floor Covering Institute (RFCI) FloorScore program;

Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health's 2010 Standard Method for the Testing and Evaluation Chambers,

Version 1.1, February 2010; 3. Compliant with the Collaborative for High Performance Schools California (2014 CA-CHPS) Criteria

and listed in the CHPS High Performance Product Database; or 4. Products certified under UL GREENGUARD Gold (formerly the Greenguard Children's & Schools

5.504.4.6.1 Verification of compliance. Documentation shall be provided verifying that resilient flooring materials meet the pollutant emission limits.

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

Exceptions: Existing mechanical equipment.

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

5.504.7 ENVIRONMENTAL TOBACCO SMOKE (ETS) CONTROL. Where outdoor areas are provided for smoking, prohibit smoking within 25 feet of building entries, outdoor air intakes and operable windows and within the building as already prohibited by other laws or regulations; or as enforced by ordinances, regulations or policies of any city, county, city and county, California Community College, campus of the California State University, or campus of the University of California, whichever are more stringent. When ordinances, regulations or policies are not in place, post signage to inform building occupants of the prohibitions.

SECTION 5.505 INDOOR MOISTURE CONTROL

5.505.1 INDOOR MOISTURE CONTROL. Buildings shall meet or exceed the provisions of California Building Code, CCR, Title 24, Part 2, Sections 1202 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures, see Section 5.407.2 of this code.

SECTION 5.506 INDOOR AIR QUALITY

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

5.506.2 CARBON DIOXIDE (CO2) MONITORING. For buildings or additions equipped with demand control ventilation, CO2 sensors and ventilation controls shall be specified and installed in accordance with the requirements of the California Energy Code, Section 120(c)(4).

SECTION 5.507 ENVIRONMENTAL COMFORT 5.507.4 ACOUSTICAL CONTROL. Employ building assemblies and components with Sound Transmission Class

(STC) values determined in accordance with ASTM E 90 and ASTM E 413, or Outdoor-Indoor Sound Transmission Class (OITC) determined in accordance with ASTM E 1332, using either the prescriptive or performance method in Section 5.507.4.1 or 5.507.4.2.

Exception: Buildings with few or no occupants or where occupants are not likely to be affected by exterior noise, as determined by the enforcement authority, such as factories, stadiums, storage, enclosed parking structures and utility buildings.

Exception: [DSA-SS] For public schools and community colleges, the requirements of this section and all subsections apply only to new construction.

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

Within the 65 CNEL noise contour of an airport.

- 1. Ldn or CNEL for military airports shall be determined by the facility Air Installation Compatible
- 2. Ldn or CNEL for other airports and heliports for which a land use plan has not been developed shall be determined by the local general plan noise element.
- 2. Within the 65 CNEL or Ldn noise contour of a freeway or expressway, railroad, 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 65 dB L_{eq} - 1-hr during any hour of operation shall have building, addition or alteration

exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of

at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30). 5.507.4.2 Performance Method. For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered

envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (Leq-1Hr) of 50 dBA in occupied areas during any hour of operation.

5.507.4.2.1 Site Features. Exterior features such as sound walls or earth berms may be utilized as appropriate to the building, addition or alteration project to mitigate sound migration to the interior.

5.507.4.2.2 Documentation of Compliance. An acoustical analysis documenting complying interior sound levels shall be prepared by personnel approved by the architect or engineer of record.

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

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

SECTION 5.508 OUTDOOR AIR QUALITY

5.508.1 Ozone depletion and greenhouse gas reductions. Installations of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.

5.508.1.1 Chlorofluorocarbons (CFCs). Install HVAC, refrigeration and fire suppression equipment that do not

5.508.1.2 Halons. Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.

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

Exception: Refrigeration systems containing low-global warming potential (low-GWP) refrigerant with a GWP value less than 150 are not subject to this section. Low-GWP refrigerants are nonozone-depleting refrigerants that include ammonia, carbon dioxide (CO₂), and potentially other refrigerants.

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

5.508.2.1.1 Threaded pipe. Threaded connections are permitted at the compressor rack. 5.508.2.1.2 Copper pipe. Copper tubing with an OD less than 1/4 inch may be used in systems with a

refrigerant charge of 5 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 mils.

5.508.2.1.3 Flared tubing connections. Double-flared tubing connections may be used for pressure controls, valve pilot lines and oil.

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

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

5.508.2.2 Valves. Valves Valves and fittings shall comply with the California Mechanical Code and as

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

rupture or discharge of the relief valve. 5.508.2.2.2 Access valves. Only Schrader access valves with a brass or steel body are

permitted for use. 5.508.2.2.2.1 Valve caps. For systems with a refrigerant charge of 5 pounds or more, valve caps

be installed in the space between the rupture disc and the relief valve inlet to indicate a disc

shall be brass or steel and not plastic. 5.508.2.2.2.2 Seal caps. If designed for it, the cap shall have a neoprene O-ring in place.

5.508.2.2.2.1 Chain tethers. Chain tethers to fit ovr the stem are required for valves

Exception: Valves with seal caps that are not removed from the valve during stem

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

5.508.2.3.1 Coil coating. Consideration shall be given to the heat transfer efficiency of coil coating to maximize energy efficiency.

5.508.2.4 Refrigerant receivers. Refrigerant receivers with capacities greater than 200 pounds shall be fitted

with a device tha indicates the level of refrigerant in the receiver. 5.508.2.5 Pressure testing. The system shall be pressure tested during installation prior to evacuation and

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

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

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

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

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

5.508.2.6.2 Second vacuum. Pull a second system vacuum to a minimum of 500 microns and hold for 30

5.508.2.6.3 Third vacuum. Pull a third vacuum down to a minimum of 300 microns, and hold for 24 hours with a maximum drift of 100 microns over a 24-hour period.

CHAPTER 7

INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

702 QUALIFICATIONS

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

- State certified apprenticeship programs.
- Public utility training programs.
- Training programs sponsored by trade, labor or statewide energy consulting or verification organizations. Programs sponsored by manufacturing organizations.
- Other programs acceptable to the enforcing agency.

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

- Certification by a national or regional green building program or standard publisher.
- 2. Certification by a statewide energy consulting or verification organization, such as HERS raters, building performance contractors, and home energy auditors.
- Successful completion of a third party apprentice training program in the appropriate trade. Other programs acceptable to the enforcing agency.

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

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

Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are 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 to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist.

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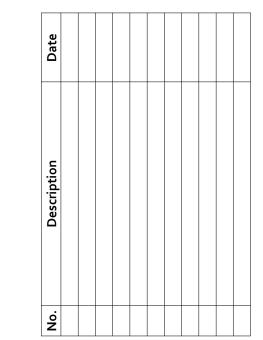
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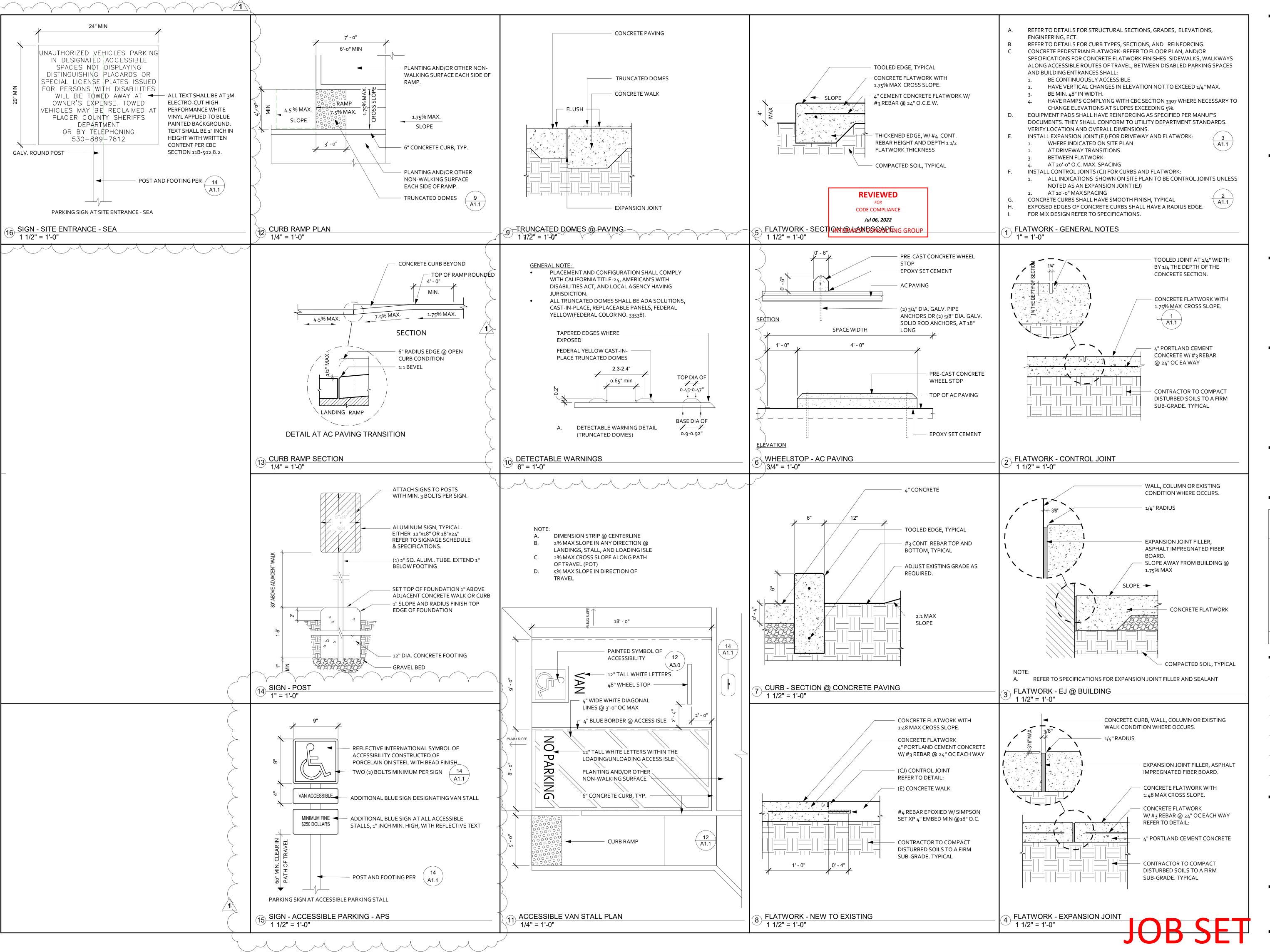


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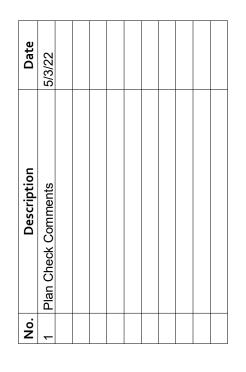
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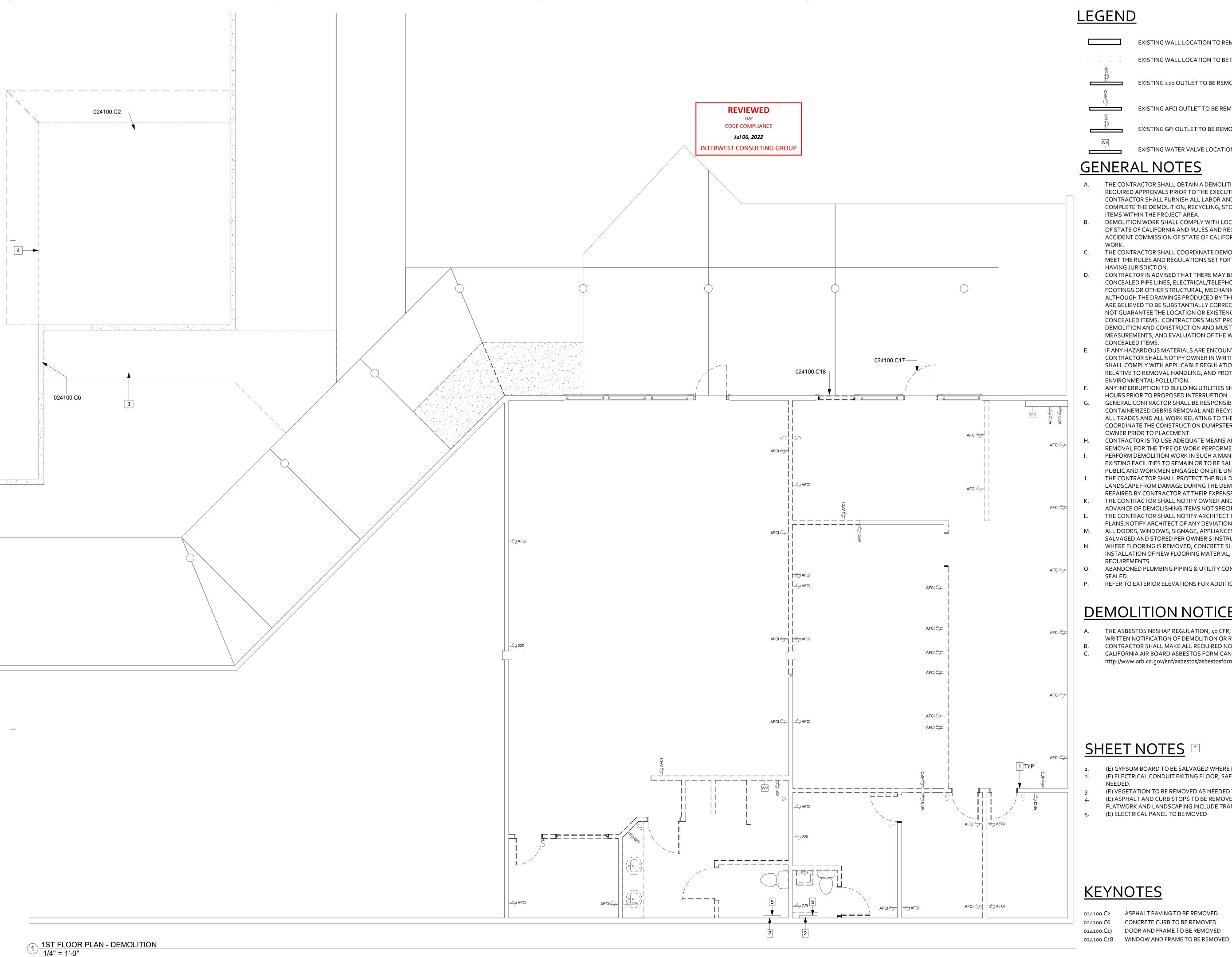
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Drawing Title:
SITE DETAILS

Drawing Number:

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LEGEND

EXISTING WALL LOCATION TO REMAIN EXISTING WALL LOCATION TO BE REMOVED EXISTING 220 OUTLET TO BE REMOVED EXISTING AFCI OUTLET TO BE REMOVED EXISTING GFI OUTLET TO BE REMOVED

GENERAL NOTES

THE CONTRACTOR SHALL OBTAIN A DEMOLITION PERMIT AND ANY OTHER REQUIRED APPROVALS PRIOR TO THE EXECUTION OF ANY DEMOLITION. THE CONTRACTOR SHALL FURNISH ALL LABOR AND MATERIALS REQUIRED TO COMPLETE THE DEMOLITION, RECYCLING, STORAGE AND PROTECTION OF ALL ITEMS WITHIN THE PROJECT AREA.

EXISTING WATER VALVE LOCATION

- DEMOLITION WORK SHALL COMPLY WITH LOCAL ORDINANCES AND SAFETY CODES OF STATE OF CALIFORNIA AND RULES AND REGULATIONS OF INDUSTRIAL ACCIDENT COMMISSION OF STATE OF CALIFORNIA APPLICABLE TO DEMOLITION
- THE CONTRACTOR SHALL COORDINATE DEMOLITION WITH THE OWNER AND SHALL MEET THE RULES AND REGULATIONS SET FORTH BY THE OWNER AND AGENCIES HAVING JURISDICTION.
- CONTRACTOR IS ADVISED THAT THERE MAY BE UNDERGROUND OR OTHERWISE CONCEALED PIPE LINES, ELECTRICAL/TELEPHONE WIRES, COLUMNS, BEAMS, FOOTINGS OR OTHER STRUCTURAL, MECHANICAL OR ELECTRICAL ITEMS. ALTHOUGH THE DRAWINGS PRODUCED BY THE ARCHITECT AND HIS CONSULTANTS ARE BELIEVED TO BE SUBSTANTIALLY CORRECT, THE ARCHITECT AND OWNER DO NOT GUARANTEE THE LOCATION OR EXISTENCE OR CONDITION OF ANY CONCEALED ITEMS. CONTRACTORS MUST PROCEED WITH CAUTION DURING DEMOLITION AND CONSTRUCTION AND MUST MAKE THEIR OWN DETERMINATION, MEASUREMENTS, AND EVALUATION OF THE WORKING CONDITION OF EXISTING CONCEALED ITEMS.
- IF ANY HAZARDOUS MATERIALS ARE ENCOUNTERED DURING DEMOLITION, CONTRACTOR SHALL NOTIFY OWNER IN WRITING IMMEDIATELY. CONTRACTOR SHALL COMPLY WITH APPLICABLE REGULATIONS, LAWS AND ORDINANCES RELATIVE TO REMOVAL HANDLING, AND PROTECTION AGAINST EXPOSURE OR ENVIRONMENTAL POLLUTION.
- ANY INTERRUPTION TO BUILDING UTILITIES SHALL BE CLEARED WITH OWNER 72 HOURS PRIOR TO PROPOSED INTERRUPTION.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CONTAINERIZED DEBRIS REMOVAL AND RECYCLING SERVICE OF ALL DEBRIS FROM ALL TRADES AND ALL WORK RELATING TO THE PROJECT. THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION DUMPSTER AND/OR CHUTE LOCATION WITH
- OWNER PRIOR TO PLACEMENT. CONTRACTOR IS TO USE ADEQUATE MEANS AND METHODS OF DEMOLITION AND REMOVAL FOR THE TYPE OF WORK PERFORMED.
- PERFORM DEMOLITION WORK IN SUCH A MANNER AS TO PREVENT DAMAGE TO EXISTING FACILITIES TO REMAIN OR TO BE SALVAGED, AND TO PREVENT INJURY TO PUBLIC AND WORKMEN ENGAGED ON SITE UNDER THIS OR OTHER CONTRACTS. THE CONTRACTOR SHALL PROTECT THE BUILDING EXTERIOR, ROADWAY AND LANDSCAPE FROM DAMAGE DURING THE DEMOLITION. ALL DAMAGE SHALL BE
- REPAIRED BY CONTRACTOR AT THEIR EXPENSE AND APPROVED BY OWNER. K. THE CONTRACTOR SHALL NOTIFY OWNER AND ARCHITECT AT LEAST 48 HOURS IN ADVANCE OF DEMOLISHING ITEMS NOT SPECIFIED ON THE PLANS. THE CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DEVIATIONS TO DEMOLITION
- PLANS.NOTIFY ARCHITECT OF ANY DEVIATIONS TO DEMOLITION PLANS. ALL DOORS, WINDOWS, SIGNAGE, APPLIANCES AND LIGHT FIXTURES TO BE
- SALVAGED AND STORED PER OWNER'S INSTRUCTIONS. WHERE FLOORING IS REMOVED, CONCRETE SLAB TO BE PREPARED FOR
- INSTALLATION OF NEW FLOORING MATERIAL, PER MANUFACTURER'S REQUIREMENTS. ABANDONED PLUMBING PIPING & UTILITY CONDUITS TO BE DISCONNECTED &
- REFER TO EXTERIOR ELEVATIONS FOR ADDITION INFORMATION.

DEMOLITION NOTICE REQUIRED

- THE ASBESTOS NESHAP REGULATION, 40 CFR, SUBPART M SECTION 61.145 REQUIRES WRITTEN NOTIFICATION OF DEMOLITION OR RENOVATION OPERATIONS. CONTRACTOR SHALL MAKE ALL REQUIRED NOTIFICATIONS.
- CALIFORNIA AIR BOARD ASBESTOS FORM CAN BE DOWNLOADED AT: http://www.arb.ca.gov/enf/asbestos/asbestosform.pdf

SHEET NOTES

- (E) GYPSUM BOARD TO BE SALVAGED WHERE POSSIBLE, TYP. ALL WALLS (E) ELECTRICAL CONDUIT EXITING FLOOR, SAFELY ABANDON OR RECONNECT AS
- (E) VEGETATION TO BE REMOVED AS NEEDED TO ALLOW FOR ACCESSABLE WALK (E) ASPHALT AND CURB STOPS TO BE REMOVED IN THIS AREA, PREPARE FOR FLATWORK AND LANDSCAPING INCLUDE TRANSITION AREA TO PARKING SPOTS
- (E) ELECTRICAL PANEL TO BE MOVED

KEYNOTES

024100.C2 ASPHALT PAVING TO BE REMOVED CONCRETE CURB TO BE REMOVED DOOR AND FRAME TO BE REMOVED

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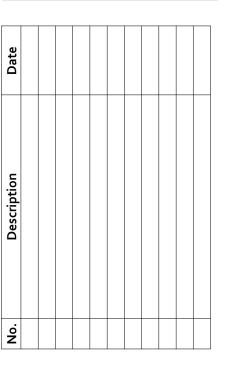
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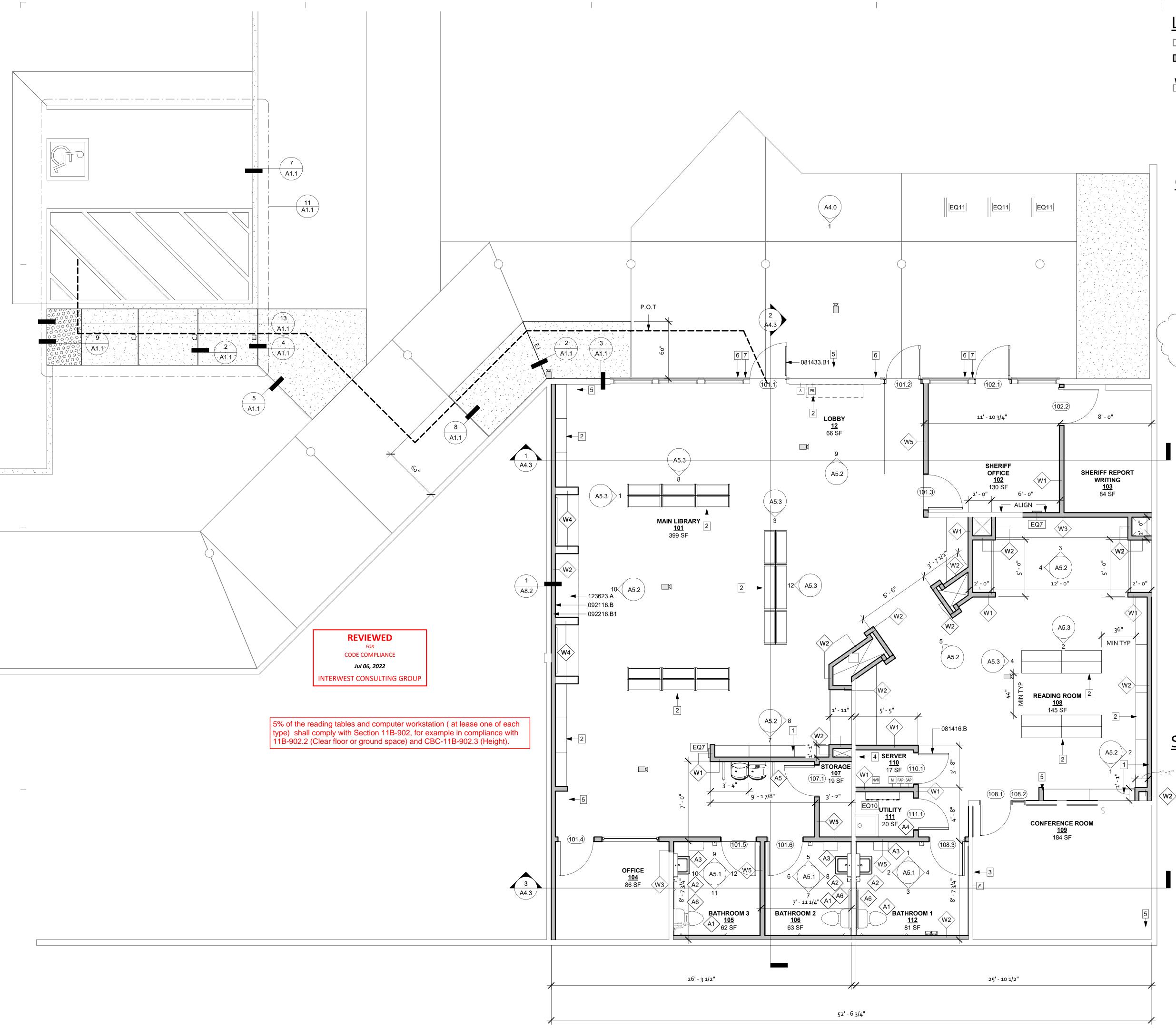


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2021020 02.17.2022 1/4" = 1'-0"

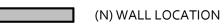
Drawing Title: **EXISTING DEMOLITION** PLAN



1 1ST FLOOR PLAN - OVERALL 1/4" = 1'-0"

LEGEND

(E) WALL LOCATION



ALIGN FACE OF WALL FINISHES.

DOOR TYPE: REFER TO SCHEDULE ON 1 / A3.1

TOILET ROOM ACCESSORY: REFER TO SCHEDULE ON 1 / A3.0

EQUIPMENT FIXTURE: REFER TO SCHEDULE ON A_{5.0}

FIRE ALARM PULL

GENERAL NOTES

- INSTALLATION OF FRAMING SHALL BE WIDTHS HEREIN LISTED IN WALL TYPES UNLESS SPECIFIED DIFFERENTLY BY STRUCTURAL DOCUMENTS. CONTRACTOR SHALL NOTIFY ARCHITECT OF DISCREPANCIES PRIOR TO INSTALLATION.
- REFER TO PLANS, SECTIONS AND DETAILS FOR STUD SIZE CHANGES FROM HEREIN SCHEDULED. FOR INTERIOR FINISH SCHEDULE AND LEGEND FOR FLOOR, WALL AND CEILING
- FINISHES REFER TO: 1 / A2.2 FOR GLAZING, FRAME AND WINDOW SCHEDULE REFER TO: 1 / A3.1
- FOR DOOR TYPES, HARDWARE AND SCHEDULE REFER TO: 1 / A3.1 FOR TOILET ROOM ACCESSORIES FIXTURE TYPE AND MOUNTING HEIGHT
- REQUIREMENTS REFER TO: 1 / A3.0 REFER TO SHEET SPECIFICATION FOR ADDITIONAL KEYNOTE SECTION
- INFORMATION. GC SHALL PROVIDE ALL EQUIPMENT PER COUNTY STANDARDS
- FOR LOW VOLTAGE THEORMATION SEE PLAN ON A5.3 RAISE ALL EXISTING OUTLETS AS REQUIRED; SEE ELECTRICAL FOR MORE
- INFORMATION AN ATTENDANT IS AVAILABLE TO ASSIST PERSONS WITH DISABLILITIES PER
- CBC-11B-225.2.3 EXCEPTION 1.

DIMENSION NOTES

- EXTERIOR DIMENSIONS ARE MEASURED TO FACE OF STRUCTURAL
- SHEATHING / SLAB EDGE OR CENTERLINE OF STRUCTURE U.N.O.
- INTERIOR DIMENSIONS ARE MEASURED TO FACE OF STUD, U.N.O. DOORS AND WINDOWS ARE MEASURED TO CENTERLINE OF OPENINGS.
- ALL ANGLED WALLS ARE AT 45 DEGREES UNLESS NOTED OTHERWISE.
- SET JAMB AT HINGE SIDE OF:
- EXTERIOR DOORS @ 4.5" U.N.O. INTERIOR DOORS @ 4.5" U.N.O.

WALL SCHEDULE NOTES

- FOR ADDITIONAL INFORMATION REFER TO SPECIFICATION SECTIONS: 072100 THERMAL BARRIERS, 092216 NON-STRUCTURAL METAL FRAMING, AND 092900 GYPSUM BOARD.
- NO SUBSTRATE ON INTERIOR SIDE OF CAVITIES, U.N.O.
- ALIGN WALL SHEATHING W/ FOUNDATION EDGE, TYP. INSTALL ACOUSTICAL BATT INSULATION.

| | Schedule - Wall Types | | | | | | | | | | | | |
|------|-----------------------|----------------|---------------|------------|---------|--|--|--|--|--|--|--|--|
| Туре | Framing | Schedule Notes | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| W1 | 3 5/8" metal Stud | 5/8" Type 'X' | 5/8" Type 'X' | | 1 | | | | | | | | |
| | 18 ga @ 24" o.c. | Gyp Board | Gyp Board | | | | | | | | | | |
| W2 | 3 5/8" metal Stud | 5/8" Type 'X' | None | | 1, 2 | | | | | | | | |
| | 18 ga @ 24" o.c. | Gyp Board | | | | | | | | | | | |
| W3 | 3 1/2" metal Stud | 5/8" Type 'X' | 5/8" Type 'X' | Acoustical | 1, 3, 4 | | | | | | | | |
| | 18 ga @ 24" o.c. | Gyp Board | Gyp Board | | | | | | | | | | |
| W4 | 6" metal Stud 18 | 5/8" Gyp Board | 5/8" Gyp | | 1 | | | | | | | | |
| | ga | | Board | | | | | | | | | | |
| W5 | 3 5/8" metal Stud | 5/8" Type 'X' | 5/8" Type 'X' | Acoustical | 1, 4 | | | | | | | | |
| | 18 ga @ 24" o.c. | Gyp Board | Gyp Board | | | | | | | | | | |

SHEET NOTES

- OWNER PROVIDED FURNITURE, SEE ANCHORING DETAILS ON A5.0
- GC TO PROVIDE BLOCKING FOR WALL-MTD TV; COORDINATE WITH NC
- **FACILITIES PM** I.T. EQUIPMENT
- GC SHALL PROVIDE 180 DEGREE SECURITY CAMERA; COORDINATE WITH NC FACILITIES PM. CAMERA SYSTEM MFG MIRASYS.
- INCLUDE: MIRASYS NVR SIZED FOR (5) 180 DEGREE CAMERAS AND 365 DAYS OF MOTION STORAGE. THE SYSTEM WILL NOT BE REQUIRED TO STORE NON MOTION TIME. INCLUDE A WALL MOUNTED RACK FOR THE NVR IN THE STORAGE ROOM. INCLUDE (5) MIRASYS 180 DEGREE CAMERAS THAT HAVE DAY AND NIGHT VIDEO CAPABILITY AND (2) CAT 6 WIRES TO EACH CAMERA FROM NVR.
- ACCESS CONTROL SYSTEM SUPPLIED BY COUNTY: BIBLIOTHECA OPEN +. INCLUDE: OPEN+ ENTRY PANEL FOR (1) DOOR, (1) LIBRARY CONTROLLER, SPEAKER SET (2) W/ AMPLIFIER. GC TO INSTALL.
- SECURITY ALARM: INCLUDE: MFG (1) EA, VISTA 20P CONTROL PANEL, MFG- (1) EA, HONEYWELL 6160 KEYPAD, (2) EA, MFG - BOSCH 360 DEGREE CEILING MOUNT, (2) CAT 6 CABLES OR APPROVED EQUAL TO EACH DEVICE. HARDWIRE TO MOTION SENSORS AND KEYPADS.

KEYNOTES

081416.B FLUSH WOOD DOOR: OPAQUE FINISH

081433.B1 FULL LITE - STILE AND RAIL SOLID CORE WOOD DOOR: INTERIOR

092116.B INTERIOR GYPSUM BOARD 092216.B1 METAL STUD

123623.A COUNTERTOP: PLASTIC LAMINATE FINISH

JOBSET A2.1



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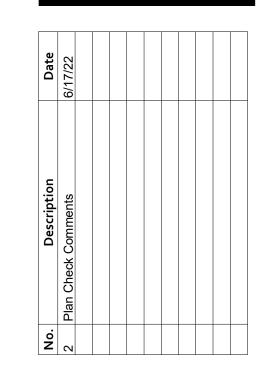
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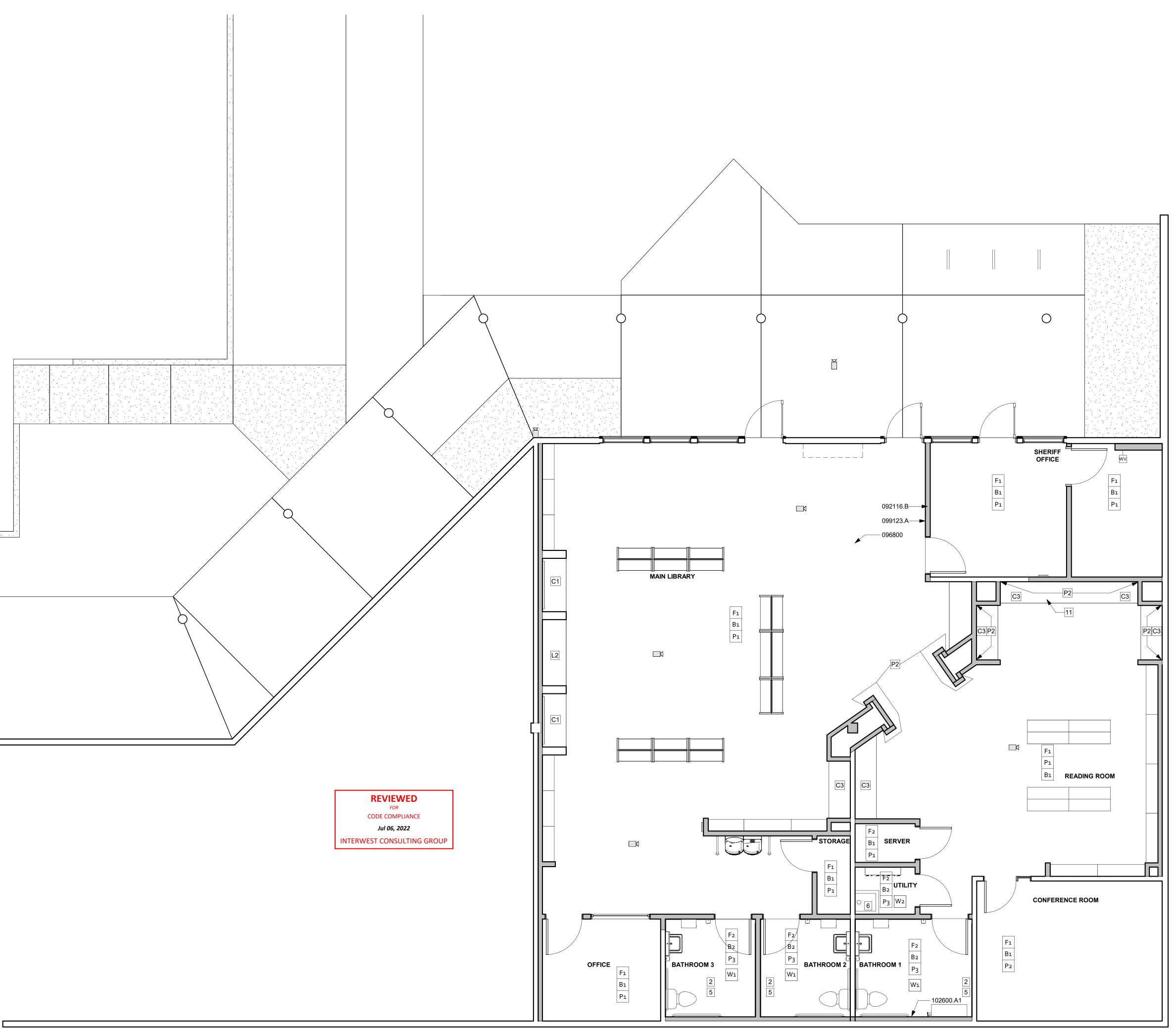
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|-------|--------|--------------|
| Date | 1: | 02.17.2022 |
| Scale | e: | 1/4" = 1'-0" |
| Drav | vn By: | CF |
| | | |

Drawing Title: FLOOR PLAN **OVERALL**



JOB SET

FINISH LEGEND

SHEET NOTES:

FLOORING:

F1 MANUFACTURE: MOHAWK
TYPE: CARPET TILE
STYLE: NUTOPIA - URBAN FIELD
COLOR: PAVEMENT

MANUFACTURE: JOHNSONITE
TYPE: COMMERCIAL SHEET VINYL
STYLE: IQ OPTIMA
COLOR: SIDEWALK CG (3242866)

SIZE: SHEET NOTES:

LAMINATE:

MANUFACTURE: WILSONART
TYPE: LAMINATE CABINET FACE
COLOR: NEW AGE OAK (7938-38)
NUMBER: FINE VELVET FINISH
SHEET NOTES:

MANUFACTURE: WILSONART
TYPE: LAMINATE COUNTER
FINISH: LINEN (D427-60)
NUMBER: MATTE FINISH
SHEET NOTES:

PAIN

P1 MANUFACTURE: BENJAMIN MOORE
PRODUCT: ULTRA SPEC 500
COLOR: CHANTILLY LACE (OC-65)
FINISH: EGGSHELL
SHEET NOTES:

P2 MANUFACTURE: BENJAMIN MOORE
PRODUCT: ULTRA SPEC 500
COLOR: PHILIPSBURG BLUE (HC-159)
FINISH: EGGSHELL

SHEET NOTES:

P3 MANUFACTURE: BENJAMIN MOORE
PRODUCT: ULTRA SPEC 500
COLOR: CHANTILLY LACE (OC-65)
FINISH: SEMI-GLOSS

BASE MOULDING:

SHEET NOTES:

B1 MANUFACTURE: BURKE
TYPE: RUBBER
STYLE: 4" COVED
COLOR: CHARCOAL (217)
SHEET NOTES:

B2 MANUFACTURE: JOHNSONITE
TYPE: COMMERCIAL SHEET VINYL
STYLE: 6" INTEGRAL COVE
COLOR: SIDEWALK CG (3242866)
SHEET NOTES:

SPECIALTY WALL

MANUFACTURE: ACROVYN
PRODUCT: ACROVYN 4000
COLOR: BLUE SILK (930)
FINISH: SUEDE TEXTURE
SHEET NOTES: 5

MANUFACTURE: MARLITE
PRODUCT: FRP
COLOR: LIGHT GREY
FINISH: SMOOTH
SHEET NOTES: 6

CUSHIONS

MANUFACTURE: GREENHOUSE FABRIC COLOR: PEAPOD (B8621) SOIL RESISTANT SHEET NOTES: 7, 8

MANUFACTURE: GREENHOUSE FABRIC COLOR: COLONIAL (B5593) FINISH: SOIL RESISTANT SHEET NOTES: 9

MANUFACTURE: CHARLOTTE FABRICS
COLOR: PACIFIC (4113)
SHEET NOTES: 10

GENERAL NOTES

- PROVIDE TRANSITION STRIPS AT ALL FLOORING MATERIAL CHANGES.
- B. SET FLOORING TRANSITIONS CENTERED BELOW DOOR IN CLOSED POSITION AT DOOR FRAME OPENINGS.
- FLOOR FINISH IS CONTINUOUS UNDER ALL COUNTERTOPS AND FIXTURES, TYPICAL.
 REFER TO EXTERIOR ELEVATIONS FOR EXTERIOR FINISH INFORMATION.
- E. REFER TO REFLECTIVE CEILING PLAN FOR CEILING FINISH INFORMATION.

SHEET NOTES

- 1. FIELD VERIFY ALL DIMENSIONS
- 2. REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.
- 3. NOT USED
- .. NOT USED
 .. INSTALL 48" WAINSCOT ON TOP OF 6" COVE BASE, 54" TOTAL.
- INSTALL 48" WAINSCOT ON WALLS AT MOP SINK.
- 7. (2) 54" X 24" X 4" NOOK CUSHIONS; FIELD VERIFY ALL MEASUREMENTS
 8. (2) 48" X 50" X 2" NOOK WALL CUSHIONS; FIELD VERIFY ALL MEASUREMENTS
- 9. (10) ACCENT PILLOWS10. (7) 4" THICK BENCH CUSHIONS; FIT TO BENCHES, FIELD VERIFY ALL MEASUREMENTS

11. CONTRATOR TO PROVIDE SUBMITTAL FOR ALL CUSHION FABRIC BEFORE ORDERING KEYNOTES

092116.B INTERIOR GYPSUM BOARD 096800 CARPETING

099123.A INTERIOR PAINTING
102600.A1 WALL PROTECTION SYSTEM ASSEMBLY: ACROVYN WALL PANEL



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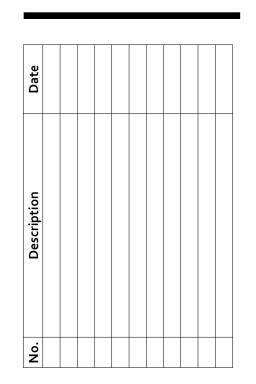
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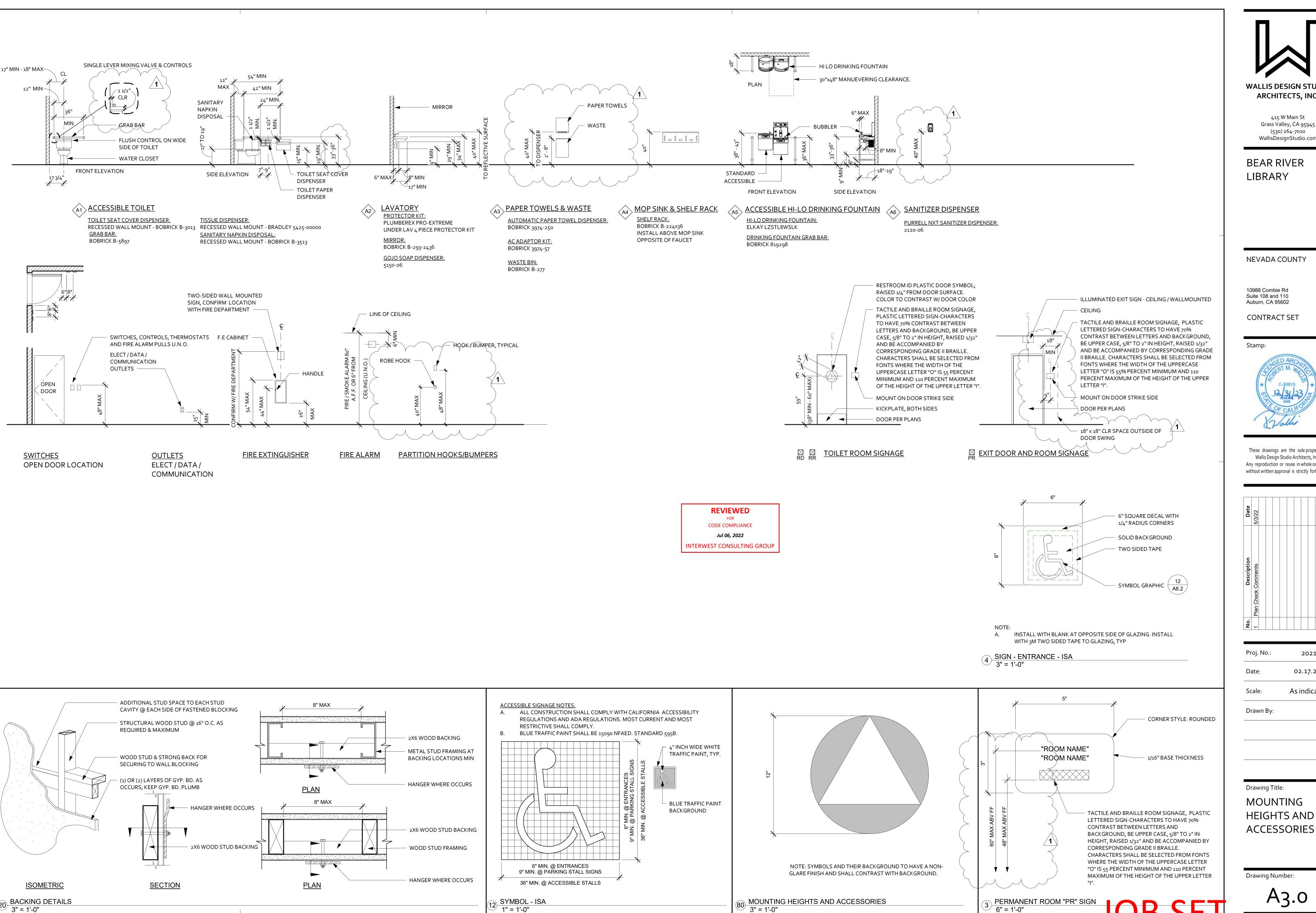
FLOOR PLAN

FINISH

Drawing Number

A2.2

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¹ 1" = 1'-0"

3" = 1'-0"

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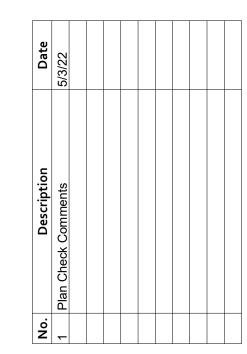
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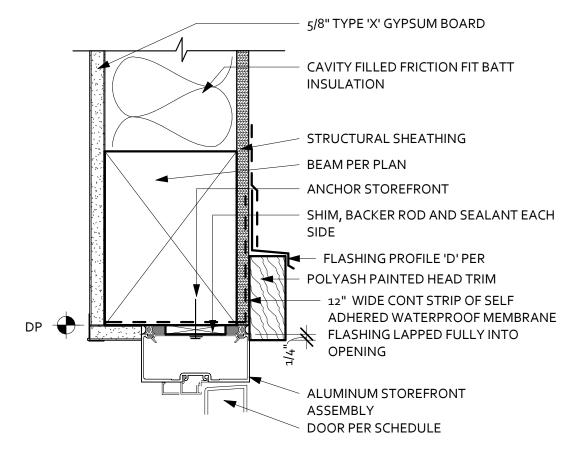
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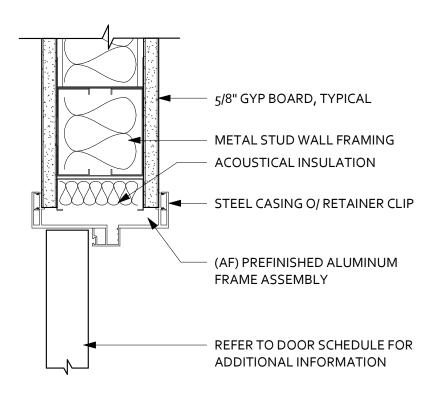
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Drawing Title: MOUNTING **HEIGHTS AND**

Drawing Number:

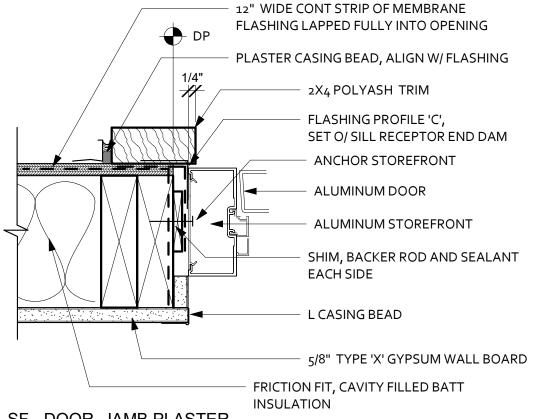
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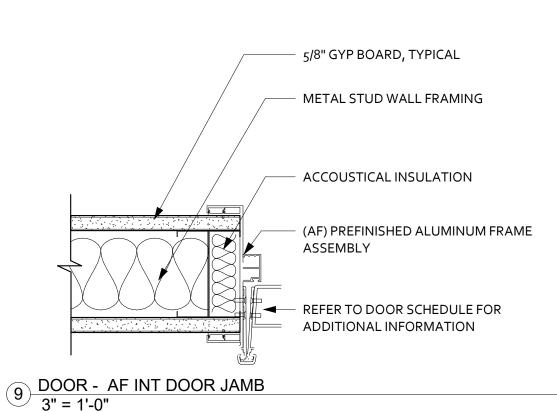




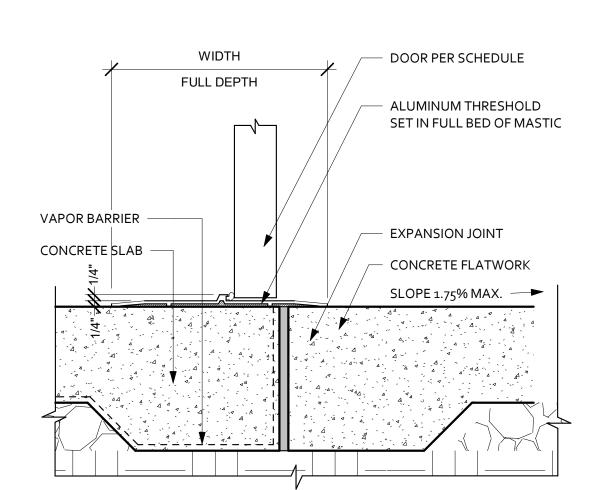
SF - DOOR HEAD @PLASTER
3" = 1'-0"

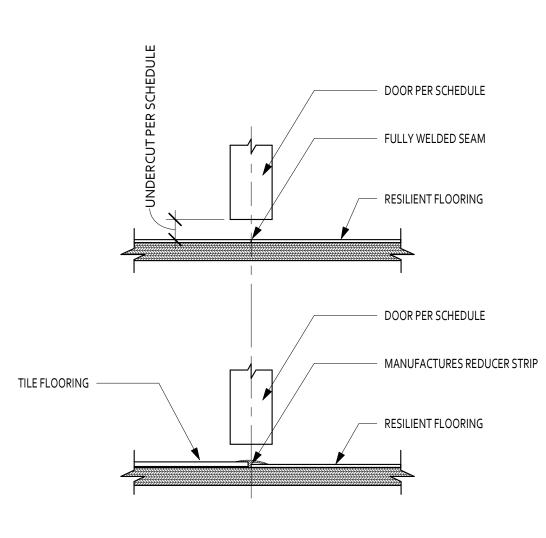
8 DOOR - AF INT DOOR HEAD [∕] 3" = 1'-0"





2 SF - DOOR JAMB PLASTER 3" = 1'-0"

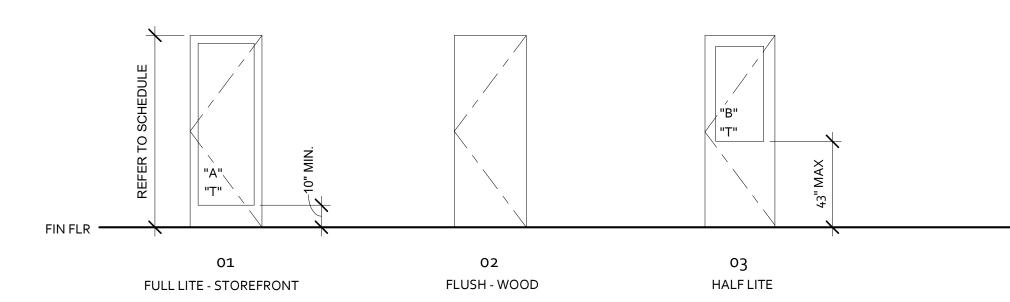


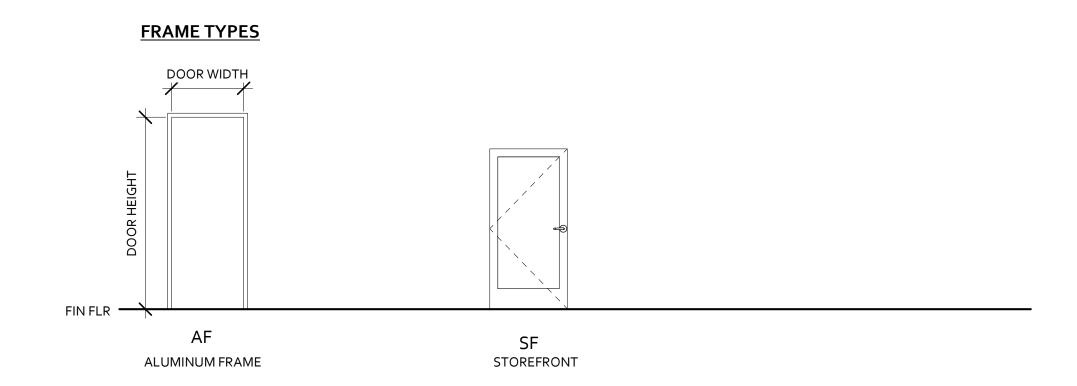


7 DOOR - EXT THRESHOLD @ SLAB
3" = 1'-0"

6 DOOR - INT THRESHOLD
3" = 1'-0"

DOOR TYPES





REVIEWED FOR CODE COMPLIANCE Jul 06, 2022 INTERWEST CONSULTING GROUP

| | | | Sched | lule - Do | ors | | | | |
|--------|---------------------|--------------|-------|-----------|----------|---------------------|---------|---------------------|-------------|
| Door | | | Frame | Door | Hardware | | Details | | Sheet Note: |
| Number | Door Size | Finish | Туре | Туре | Group | Head | Jamb | Sill | |
| | | | | | | | | | |
| 101.1 | 36" X 8o" Full Lite | ALUMINUM | SF | 01 | 01 | 4/A3.1 | 5/A3.1 | 7/A3.1 | 1, 2, 3 |
| 101.2 | 36" X 8o" Full Lite | ALUMINUM | SF | 01 | 01 | 4/A3.1 | 5/A3.1 | 7/A3.1 | 1, 2 |
| 101.3 | 36" x 80" | WOOD STAINED | AF | 02 | 06 | 8/A3.1 | 9/A3.1 | 6/A3.1 | |
| 101.4 | 36" x 80" | WOOD STAINED | AF | 02 | 05 | 8/A ₃ .1 | 9/A3.1 | 6/A ₃ .1 | |
| 101.5 | 36" x 80" | WOOD STAINED | AF | 02 | 04 | 8/A ₃ .1 | 9/A3.1 | 6/A ₃ .1 | 4 |
| 101.6 | 36" x 80" | WOOD STAINED | AF | 02 | 04 | 8/A3.1 | 9/A3.1 | 6/A ₃ .1 | 4 |
| 102.1 | 36" X 80" Full Lite | ALUMINUM | SF | 01 | 01 | 4/A3.1 | 5/A3.1 | 7/A3.1 | 1, 2 |
| 102.2 | 36" x 8o" Half Lite | WOOD STAINED | AF | 03 | 03 | 8/A ₃ .1 | 9/A3.1 | 6/A ₃ .1 | |
| 107.1 | 32" x 80" | WOOD STAINED | AF | 02 | 03 | 8/A ₃ .1 | 9/A3.1 | 6/A ₃ .1 | |
| 108.1 | 32" x 80" | WOOD STAINED | AF | 02 | 02 | 8/A ₃ .1 | 9/A3.1 | 6/A ₃ .1 | |
| 108.2 | 12" x 80" | WOOD STAINED | AF | | | | | | |
| 108.3 | 36" x 80" | WOOD STAINED | AF | 02 | 04 | 8/A ₃ .1 | 9/A3.1 | 6/A ₃ .1 | 4 |
| 110.1 | 32" x 80" | WOOD STAINED | AF | 02 | 03 | 8/A3.1 | 9/A3.1 | 6/A ₃ .1 | 5 |
| 111.1 | 32" x 80" | WOOD STAINED | AF | 02 | 03 | 8/A3.1 | 9/A3.1 | 6/A3.1 | |

LEGEND

GLAZING TYPES

"A" <u>1"-INCH INSULATED UNIT</u> EXTERIOR LITE: LoE2-360 AIR SPACE:

> INBOARD LITE: CLEAR 1/4" CLEAR TEMPERED GLASS

"T" DENOTES TEMPERED GLAZING, TYPICAL

FRAME TYPES

GLAZING:

BASIS OF DESIGN - INTERIOR ALUMINUM FRAME (AF) DOOR

1. INTERIOR ALUMINUM WINDOW & DOOR FRAME

1 1/2" FULL TRIM CLEAR ANODIZED FINISH

LIGHT GRAY FRAME SEAL FIELD VERIFY ALL DIMENSIONS

GLASS TYPE 'B'

BASIS OF DESIGN - STOREFRONT OLDCASTLE BUILDING MANUFACTURE: PRODUCT: ENTRANCE SIZE: PER SCHEDULE FINISH: BLACK 378x500

GENERAL NOTES

FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.

GLASS TYPE 'A'

FOR RESTROOM SIGNAGE REQUIREMENTS, REFER TO DETAIL 80/A3.0 ALL DOORS AND HARDWARE SHALL BE INSTALLED IN STRICT COMPLIANCE WITH CALIFORNIA CODE OF REGULATIONS TITLE 24 (ACCESS CODE) AND THE FEDERAL AMERICANS WITH DISABILITIES ACT GUIDELINES (ADAAG).

EXIT DOORS SHALL BE ABLE TO BE OPENED FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.

THE MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 LBS. FOR EXTERIOR DOORS AND 5 LBS. FOR INTERIOR DOORS, EXCEPT FIRE DOORS WHICH MAY HAVE A MAXIMUM EFFORT OF 15 LBS. APPLIED AT RIGHT ANGLES TO THE DOOR PER CBC 1133B.2.2.

ALL HARDWARE SHALL BE LEVER TYPE OR PANIC TYPE MOUNTED AT HEIGHT INDICATED IN THE SPECIFICATIONS AND SHALL BE MOUNTED NOT LESS THAN 34",

OR HIGHER THAN 44" ABOVE FINISHED FLOOR.

DOOR CLOSER SHALL BE ADJUSTED SUCH THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE A MINIMUM OF 1.5 SECONDS TO CLOSE. WHEN ADDITIONAL DOORS ARE PROVIDED FOR EGRESS PURPOSES, THEY SHALL

COMPLY WITH ALL PROVISIONS OF CBC 1008.

SAFETY GLAZING SHALL BE PROVIDED AS NOTED HEREIN, AND IN COMPLIANCE WITH THE CALIFORNIA BUILDING CODE SECTION 2406.

PROVIDE MINIMUM 10" SOLID KICKPLATE PANEL AT ALL HINGED DOORS U.N.O. PER SECTIONS 11B-404.2.10.

HARDWARE GROUPS

AR - ADAMS RITE DA - DOORAMERICA SF - STOREFRONT SC - SCHLAGE

o4 - RESTROOMS

AF - GASKETING (HEAD AND JAMB)

SC - ND50PD-SPA-626

DA - WALL STOP SH401

SC - ND8oPD-SPA-626

DA - WALL STOP SH401

DOOR CLOSER

MORTISE

MORTISE

o6 - STORAGE

HG - (3) BB1279 4 1/2 X 4 1/2 FULL

• HG - (3) BB1279 4 1/2 X 4 1/2 FULL

DA - DC40 / DC40XPBF / HCUSH -

AF - GASKETING (HEAD AND JAMB)

EXTRA HEAVY DUTY COMMERCIAL

AF - GASKETING (HEAD AND JAMB)

FINISH: SS - BRUSHED STAINLESS STEEL

DOOR HARDWARE

01 - ENTRANCES: STOREFRONT SF - RIM PANIC DEVICE

 SC - ND4oS-SPA-626 BIBLIOTHECA OPEN+ ENTRY PANEL • DA - WALL STOP SH401 SF - OFFSET PULLS HG - (3) BB1279 4 1/2 X 4 1/2 FULL

 DA - DC40 / DC40XPBF / HCUSH -MORTISE EXTRA HEAVY DUTY COMMERCIAL DA - DC40 / DC40XPBF / HCUSH -DOOR CLOSER EXTRA HEAVY DUTY COMMERCIAL DOOR CLOSER

SF - BUTT HINGES AR - 1850 MS HOOKBOLT LOCK AND •

FP-1 FACE PLATE SF - THUMB TURN AND CYLINDER

SF - WEATHERSTRIPPING (HEAD, JAMB 05 - OFFICE AND ADJUSTABLE SILL)

PK - ACCESSIBLE THRESHOLD

02 - CONFERENCE ROOM

SC - ND53PD-SPA-626

 DA - WALL STOP SH401 HG - (3) BB1279 4 1/2 X 4 1/2 FULL

MORTISE AF - GASKETING (HEAD AND JAMB)

o₃ - SHERIFF

 SC - ND50PD-SPA-626 DA - WALL STOP SH401 HG - (3) BB1279 4 1/2 X 4 1/2 FULL MORTISE

AF - GASKETING (HEAD AND JAMB) GREY

INTERIOR DOORS:

MANUFACTURE: HALEY OR APPROVED EQUIVALENT TYPE: PRE-FINISHED WOOD STYLE: PLAIN 1/4 SLICED WHITE OAK CLEAR

FINISH: SHEET NOTES:

MANUFACTURER: CURRIES OR APPROVED EQUIVALENT TYPE: **HOLLOW METAL**

STYLE: THERMAL FULL LITE FINISH: BRONZE ANODIZED (TO MATCH EXISTING) SHEET NOTES: 1, 2, 3

MANUFACTURE: DOORMERICA OR APPROVED EQUIVALENT

INTERIOR ALUMINUM FRAME STYLE: 1 1/2" FULL TRIM FINISH: COMMERCIAL DARK BRONZE ANODIZE

SHEET NOTES

SHEET NOTES: 1, 2, 4

PROVIDE SIGN ON EGRESS SIDE ON OR ADJACENT TO THE DOOR STATING: "DOOR TO REMAIN UNLOCKED WHEN SPACE IS OCCUPIED" PER CBC SECTION 1010.1.9.3 (2.2) THE SIGN SHALL BE IN LETTERS 1 INCH (25 MM) HIGH ON A CONTRASTING BACKGROUND PANIC HARDWARE PER CODE COMPLIANCE, EXITING ANALYSIS PLAN AND AS HEREIN

SPECIFIED. HARDWARE SHALL COMPLY WITH SECTION 1010.1.10 OF THE CBC. INTERNATIONAL SYMBOL OF ACCESSIBILITY ON ENTRANCE AND EXIT SIDE SECURED

WITH 3M TWO-SIDED TAPE. INSTALL RESTROOM DOOR SIGNAGE AT ALL TOILET ROOM DOORS; REFER TO EGRESS AND SIGNAGE PLAN.

PROVIDE 12"X24" VENT WITH BRUSHED METAL FRAME.

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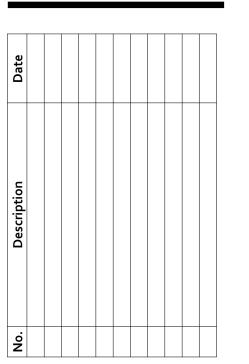
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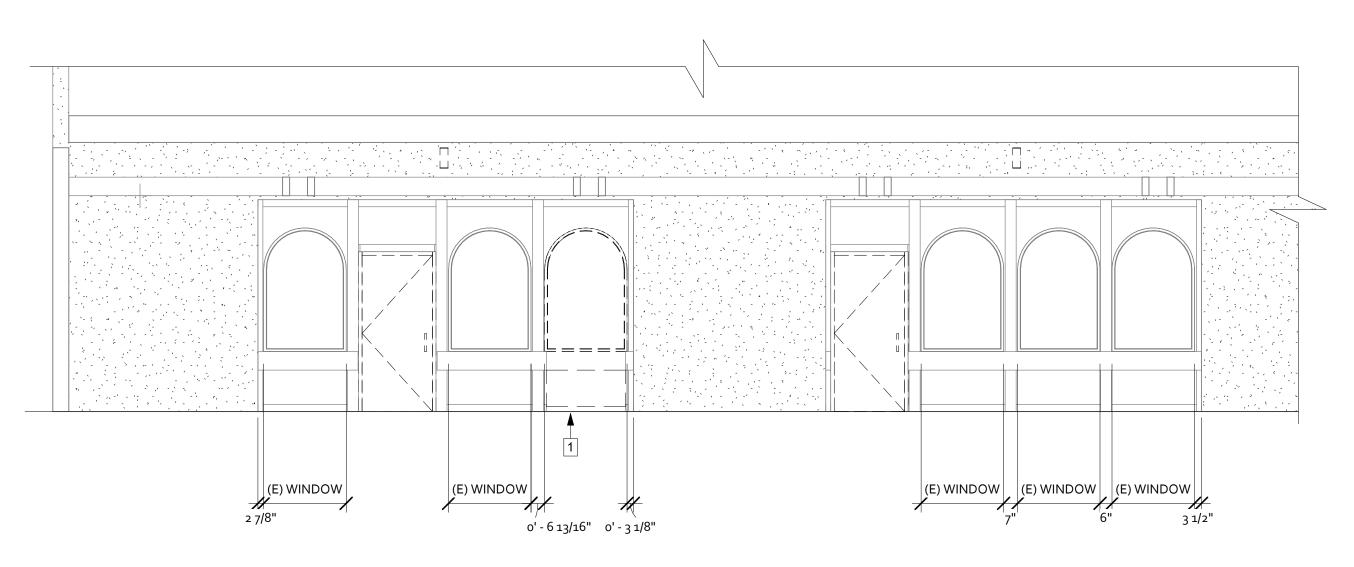


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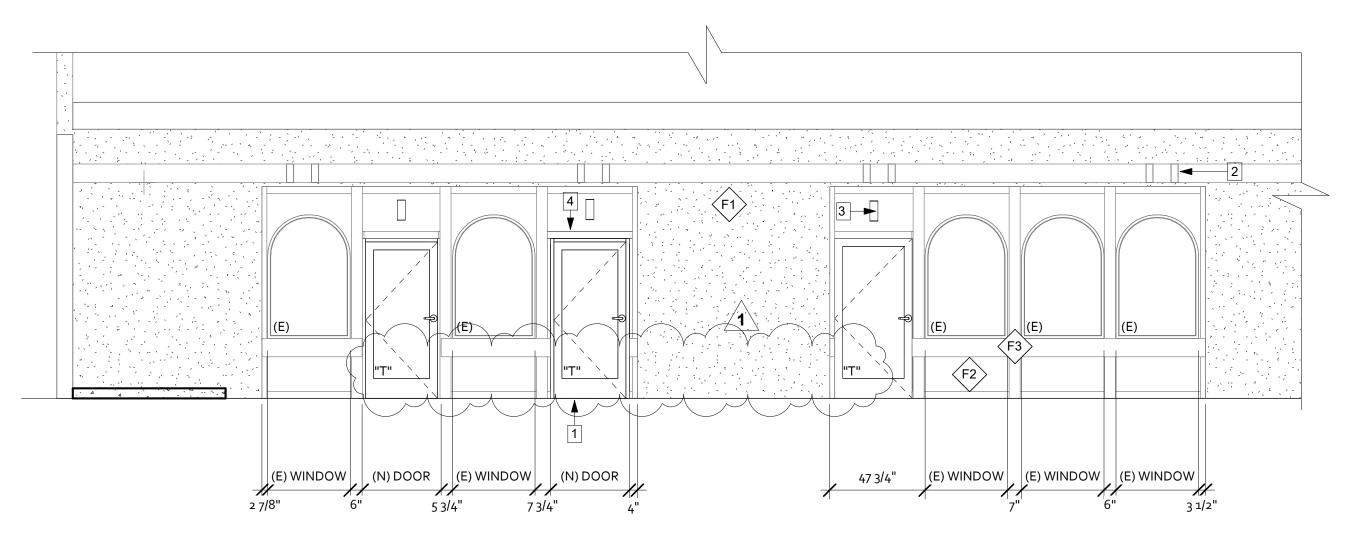
As indicated CF Drawn By:

Drawing Title: DOOR & FRAME **SCHEDULE**

Drawing Number:



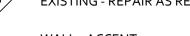
1 NORTH ELEVATION DEMO 1/4" = 1'-0"



2 NORTH ELEVATION
1/4" = 1'-0"

LEGEND

WALL - TYPICAL
EXISTING - REPAIR AS REQUIRED







EXISTING - REPAIR AS REQUIRED

<u>GLAZING</u>

DENOTES TEMPERED GLAZING, TYPICAL "L" DENOTES LAMINATED GLAZING, TYPICAL

EXISTING SCONCE TO BE REMOVED

GLASS TYPES

"A" <u>INSULATED UNIT</u> EXTERIOR LITE: LOW E

AIR SPACE: MANUFACTURE STANDARD INBOARD LITE: CLEAR

<u>PAINT</u>

SIDING, TRIM AND FASCIA

MANUFACTURE: MATCH EXISTING PRODUCT: MATCH EXISTING

GENERAL NOTES

- A. REFER TO DOOR SCHEDULE ON SHEET A_{3.1} FOR INTERIOR AND EXTERIOR DOOR INFORMATION.
- FOR KEYNOTE CALLOUTS REFER TO SHEET SPECIFICATION SECTION FOR

ADDITIONAL INFORMATION.

SHEET NOTES

- DEMO EXTERIOR WINDOW
- EXISTING CANOPY BEAMS NO CHANGES
- NEW EXTERIOR LIGHTS OVER DOORS
- ADDED TRIM TO MATCH ABOVE DOOR

KEYNOTES

REVIEWED CODE COMPLIANCE

Jul 06, 2022

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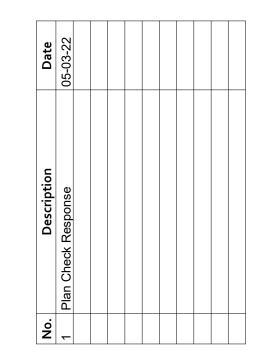
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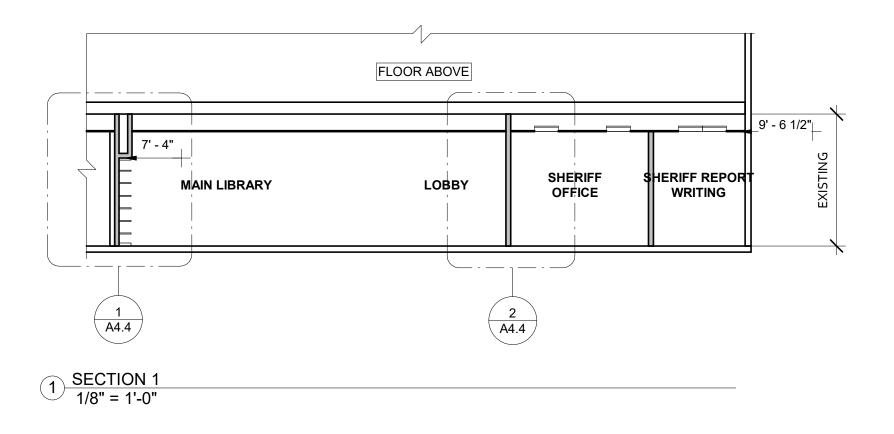
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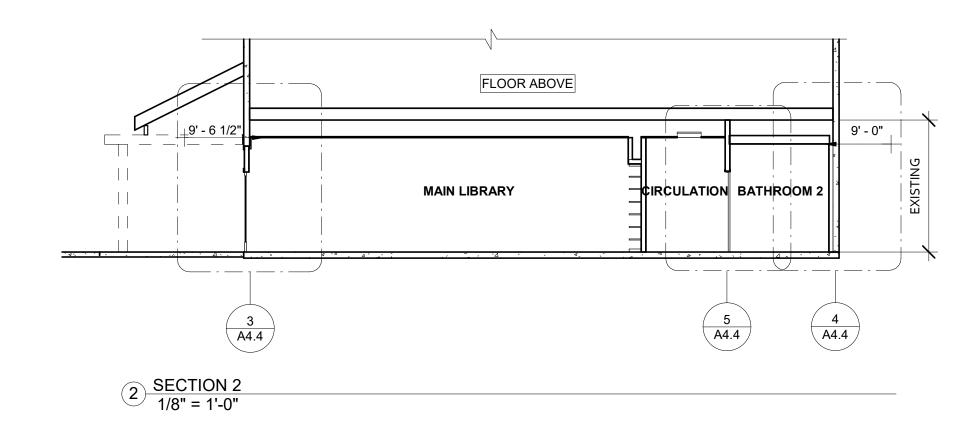


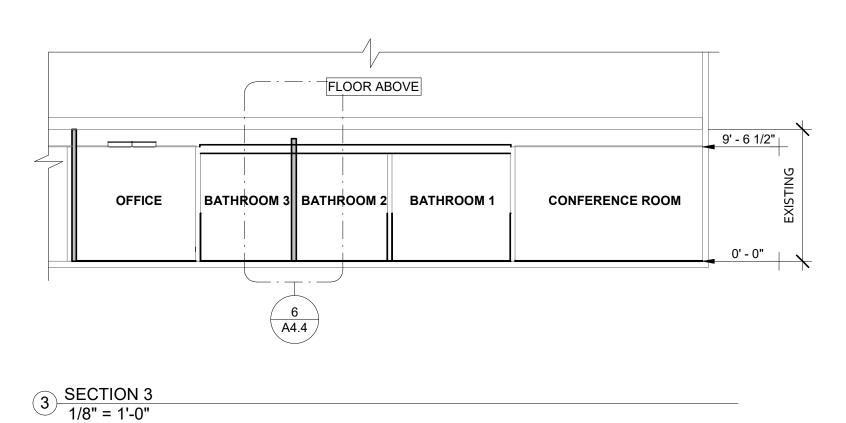
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1/4" = 1'-0"

Drawing Title: **EXTERIOR ELEVATIONS**







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GENERAL NOTES

A. REFER TO ELECTRICAL, MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
 B. INSTALL FIRE BLOCKING AT LOCATIONS INDICATED IN CBC SECTION 718.2 THROUGH 718.2.7 AS APPLIED.

CBC SECTION 718.2:

"FIREBLOCKING AND DRAFTSTOPPING SHALL BE INSTALLED IN COMBUSTIBLE CONCEALED LOCATIONS IN ACCORDANCE WITH THIS SECTION. FIREBLOCKING SHALL COMPLY WITH SECTION 718.2. DRAFTSTOPPING IN FLOOR/CEILING SPACES AND ATTIC SPACES SHALL COMPLY WITH SECTIONS 718.3 AND 718.4, RESPECTIVELY. THE PERMITTED USE OF COMBUSTIBLE MATERIALS IN CONCEALED SPACES OF BUILDINGS OF TYPE I OR II CONSTRUCTION SHALL BE LIMITED TO THE APPLICATIONS INDICATED IN SECTION 718.5."

CBC SECTION 718.2.1:

"FIREBLOCKING SHALL CONSIST OF THE FOLLOWING MATERIALS:

1. TWO-INCH (51 MM) NOMINAL LUMBER.

- TWO THICKNESSES OF 1-INCH (25 MM) NOMINAL LUMBER WITH BROKEN LAP JOINTS.
 ONE THICKNESS OF 0.719-INCH (18.3 MM) WOOD STRUCTURAL PANELS WITH
- JOINTS BACKED BY 0.719-INCH (18.3 MM) WOOD STRUCTURAL PANELS.

 ONE THICKNESS OF 0.75-INCH (19.1 MM) PARTICLEBOARD WITH JOINTS
- 4. ONE THICKNESS OF 0.75-INCH (19.1 MM) PARTICLEBO BACKED BY 0.75-INCH (19 MM) PARTICLE-BOARD.
- 5. ONE-HALF-INCH (12.7 MM) GYPSUM BOARD.
- 6. ONE-FOURTH-INCH (6.4 MM) CEMENT-BASED MILLBOARD.
 7. BATTS OR BLANKETS OF MINERAL WOOL, MINERAL FIBER OR OTHER
- 8. CELLULOSE INSULATION INSTALLED AS TESTED FOR THE SPECIFIC APPLICATION."

CBC SECTION 718.2.3:

"FIREBLOCKING SHALL BE PROVIDED AT INTERCONNECTIONS BETWEEN
CONCEALED VERTICAL STUD WALL OR PARTITION SPACES AND CONCEALED
HORIZONTAL SPACES CREATED BY AN ASSEMBLY OF FLOOR JOISTS OR TRUSSES,
AND BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR
AT SOFFITS, DROP CEILINGS, COVE CEILINGS AND SIMILAR LOCATIONS."

SHEET NOTES

NOT USED

KEYNOTES



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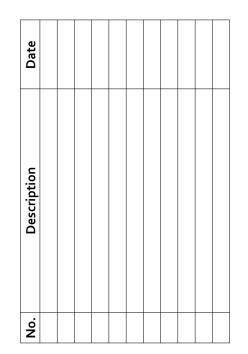
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Drawn By:

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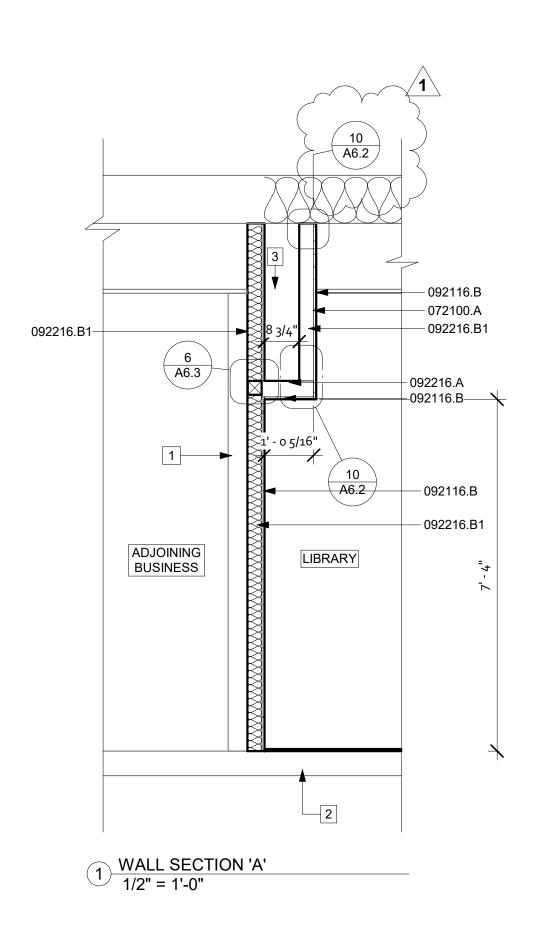
BUILDING
SECTIONS

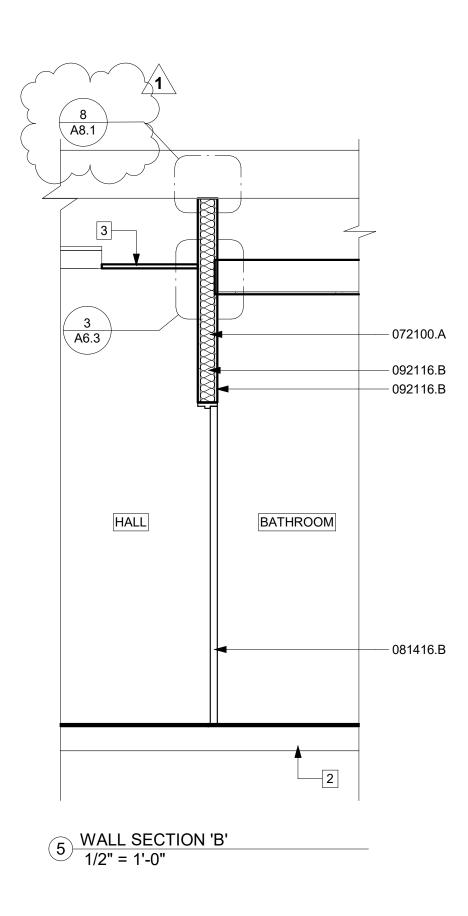
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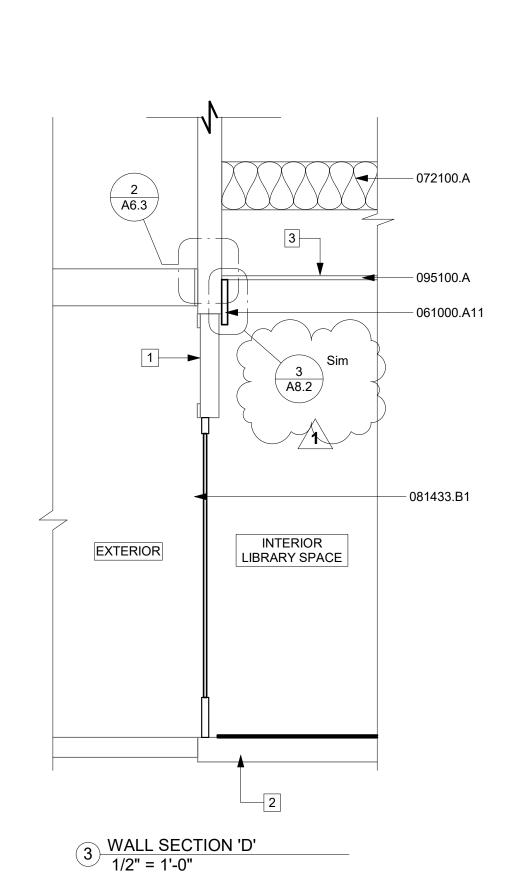
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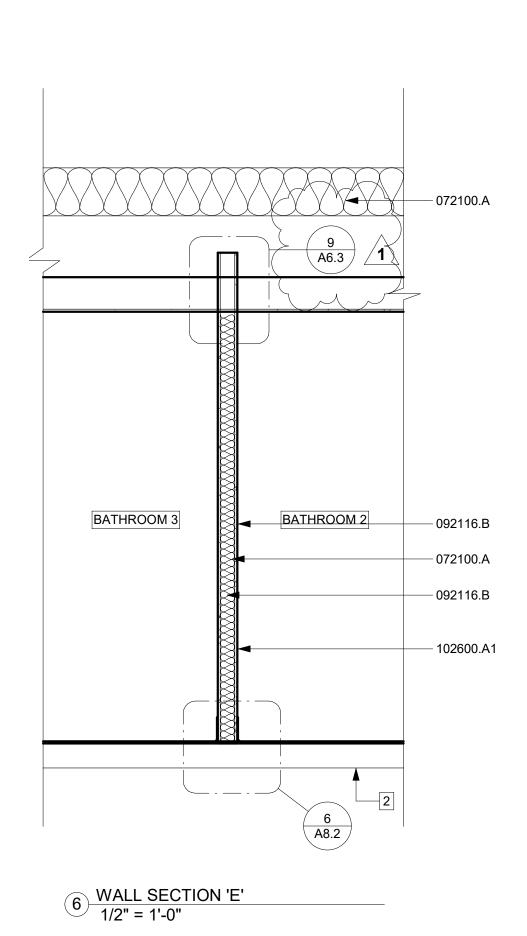
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LEGEND



- 072100.A

- 095100.A

- 072100.A

-092116.B-

- 092216.B1

7 A6.3

SHERIFF

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2 WALL SECTION ' C' 1/2" = 1'-0"

BATT INSULATION

3" R-12 AT WALL ASSEMBLIES, TYPICAL 12" R-38 AT CEILING ASSEMBLIES, TYPICAL

GENERAL NOTES

REFER TO ELECTRICAL, MECHANICAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

INSTALL FIRE BLOCKING AT LOCATIONS INDICATED IN CBC SECTION 717.2 THROUGH 718.2.7 AS APPLIED.

CBC SECTION 718.2:

"FIREBLOCKING AND DRAFTSTOPPING SHALL BE INSTALLED IN COMBUSTIBLE CONCEALED LOCATIONS IN ACCORDANCE WITH THIS SECTION. FIREBLOCKING SHALL COMPLY WITH SECTION 718.2. DRAFTSTOPPING IN FLOOR/CEILING SPACES AND ATTIC SPACES SHALL COMPLY WITH SECTIONS 718.3 AND 718.4, RESPECTIVELY. THE PERMITTED USE OF COMBUSTIBLE MATERIALS IN CONCEALED SPACES OF BUILDINGS OF TYPE I OR II CONSTRUCTION SHALL BE LIMITED TO THE APPLICATIONS INDICATED IN SECTION 718.5."

CBC SECTION 718.2.1:

"FIREBLOCKING SHALL CONSIST OF THE FOLLOWING MATERIALS:

TWO-INCH (51 MM) NOMINAL LUMBER.

- TWO THICKNESSES OF 1-INCH (25 MM) NOMINAL LUMBER WITH BROKEN LAP
- ONE THICKNESS OF 0.719-INCH (18.3 MM) WOOD STRUCTURAL PANELS WITH JOINTS BACKED BY 0.719-INCH (18.3 MM) WOOD STRUCTURAL PANELS.
- ONE THICKNESS OF 0.75-INCH (19.1 MM) PARTICLEBOARD WITH JOINTS
- BACKED BY 0.75-INCH (19 MM) PARTICLE-BOARD.
- ONE-HALF-INCH (12.7 MM) GYPSUM BOARD.
- ONE-FOURTH-INCH (6.4 MM) CEMENT-BASED MILLBOARD.
- BATTS OR BLANKETS OF MINERAL WOOL, MINERAL FIBER OR OTHER APPROVED MATERIALS INSTALLED IN SUCH A MANNER AS TO BE SECURELY RETAINED IN PLACE.
- CELLULOSE INSULATION INSTALLED AS TESTED FOR THE SPECIFIC APPLICATION."

CBC SECTION 718.2.3:

"FIREBLOCKING SHALL BE PROVIDED AT INTERCONNECTIONS BETWEEN CONCEALED VERTICAL STUD WALL OR PARTITION SPACES AND CONCEALED HORIZONTAL SPACES CREATED BY AN ASSEMBLY OF FLOOR JOISTS OR TRUSSES, AND BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILINGS, COVE CEILINGS AND SIMILAR LOCATIONS."

SHEET NOTES

- (E) WALL
- (E) SLAB
- (E) T-BAR GRID. INSTALL NEW GRID SECTION AT WALL WHERE NEW WALL IS TO UNDERSIDE OF STRUCTURE

KEYNOTES

061000.A11 WOOD DECORATIVE BEAM

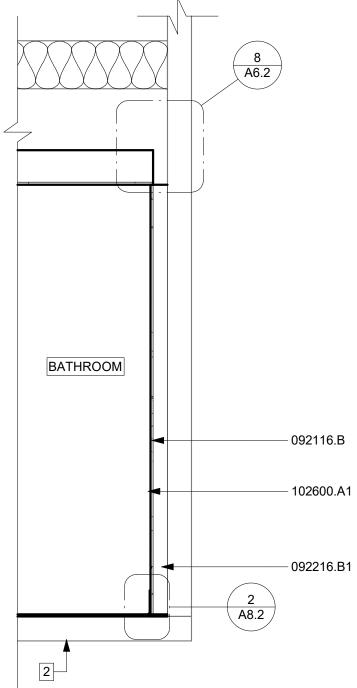
EXTRUDED-POLYSTYRENE BOARD INSULATION

081416.B FLUSH WOOD DOOR: OPAQUE FINISH

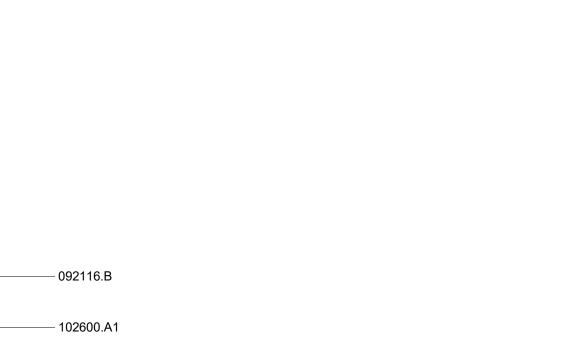
FULL LITE - STILE AND RAIL SOLID CORE WOOD DOOR: INTERIOR INTERIOR GYPSUM BOARD

NON-LOAD BEARING METAL FRAMING ASSEMBLY

ACOUSTICAL PANEL ASSEMBY 095100.A WALL PROTECTION SYSTEM ASSEMBLY: ACROVYN WALL PANEL



4 WALL SECTION 'F' 1/2" = 1'-0"



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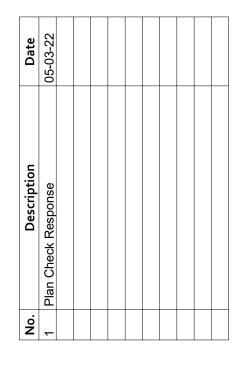
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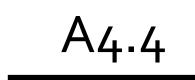


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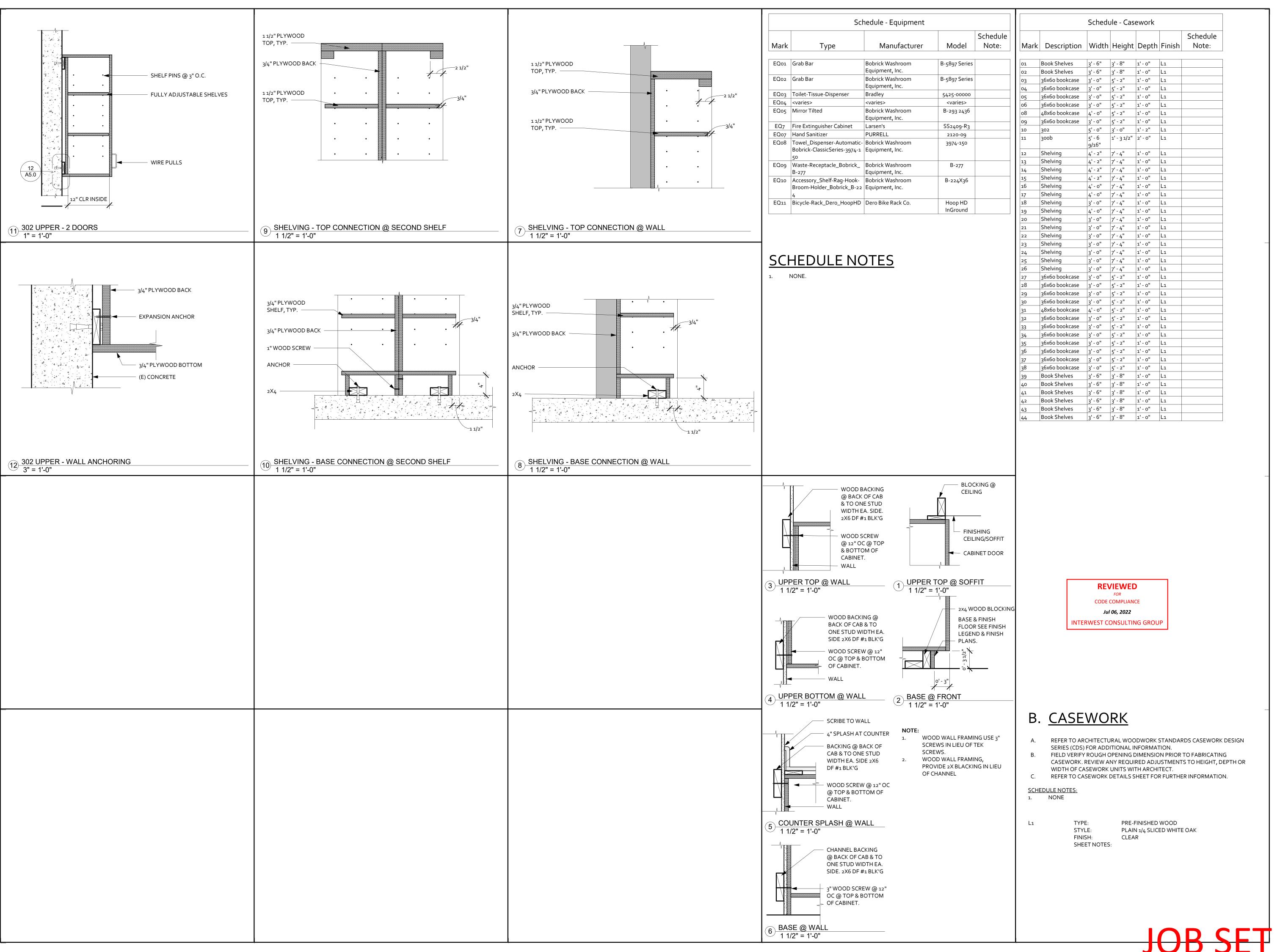
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Drawing Title:

WALL SECTIONS



JOB SET A4.4



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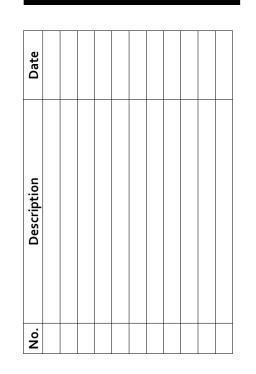
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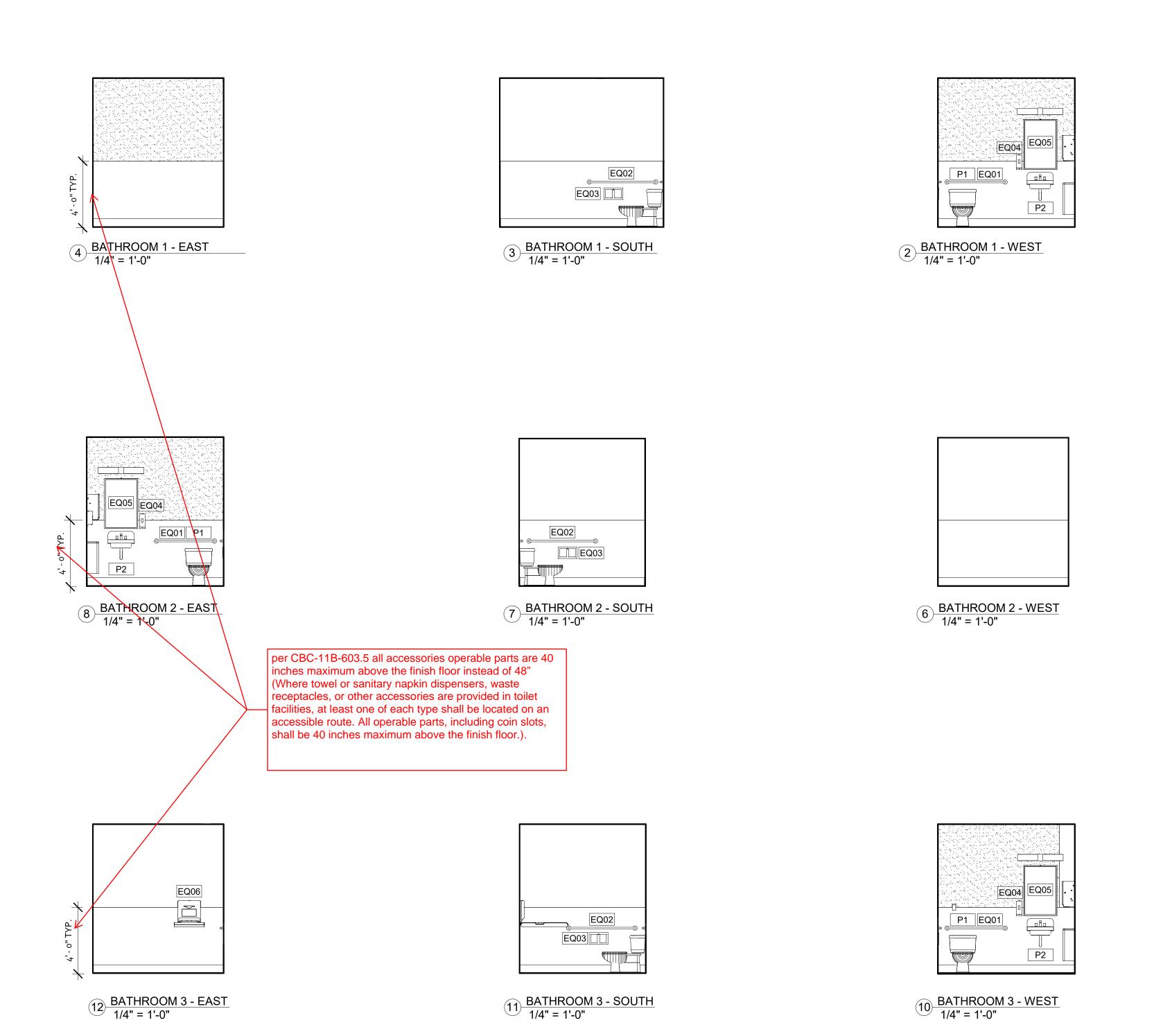
CASEWORK

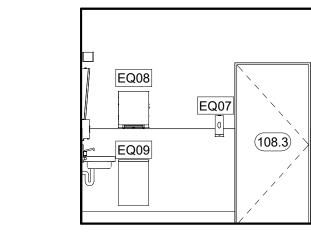
SCHEDULE AND DETAILS

Drawing Number

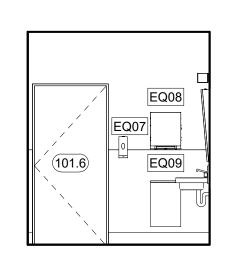
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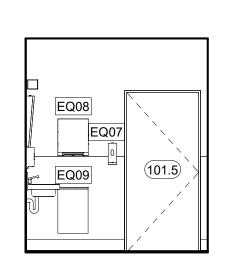




1 BATHROOM 1 - NORTH 1/4" = 1'-0"



5 BATHROOM 2 - NORTH 1/4" = 1'-0"



9 BATHROOM 3 - NORTH 1/4" = 1'-0"

<u>LEGEND</u>

- for interior window types refer to schedule on sheet A_{3.1}.
- for interior door types refer to schedule on sheet A_{3.1}.
- * FOR FINISHES REFER TO SCHEDULE ON SHEET A2.2.
- FOR EQUIPMENT REFER TO SCHEDULE.
- CW 01 ← CASEWORK MARK REFER TO CASEWORK SCHEDULE
- 30" ✓24" ← CABINET SIZE (WIDTH, HEIGHT, DEPTH)
 - DENOTES TEMPERED GLAZING, TYPICAL

GENERAL NOTES

- A. REFER TO ARCHITECTURAL WOODWORK STANDARDS CASEWORK DESIGN SERIES (CDS) FOR ADDITIONAL INFORMATION.
- FIELD VERIFY ROUGH OPENING DIMENSION PRIOR TO FABRICATING CASEWORK.
 REVIEW ANY REQUIRED ADJUSTMENTS TO HEIGHT, DEPTH OR WIDTH OF
 CASEWORK UNITS WITH ARCHITECT.
- C. REFER TO CASEWORK DETAILS SHEET A8.0 FOR FURTHER INFORMATION.

 D. OPERABLE PARTS SHALL BE WITHIN A 48 INCH MAXIMUM HEIGHT REACH WHEN OBSTRUCTIONS ARE 10-INCHES OR LESS AND AT 46 INCHES MAXIMUM HEIGHT REACH WHEN OBSTRUCTIONS ARE BETWEEN 10-24 INCHES.
- E. PROVIDE LOCKS ON CABINET DOORSF. FOR SHELVING QUANTITY REFER TO CASEMENT SCHEDULE ON A₅.0

SHEET NOTES

1. SHEET NOTE

KEYNOTES

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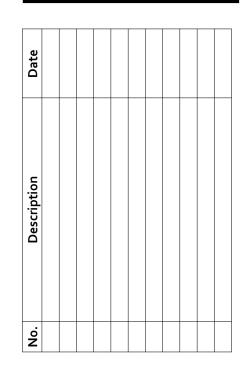
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 Scale:
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Drawing Title:

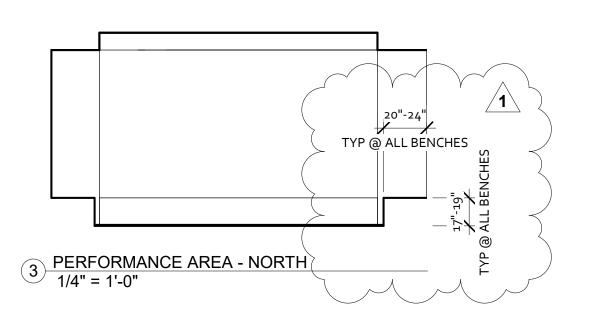
INTERIOR ELEVATIONS

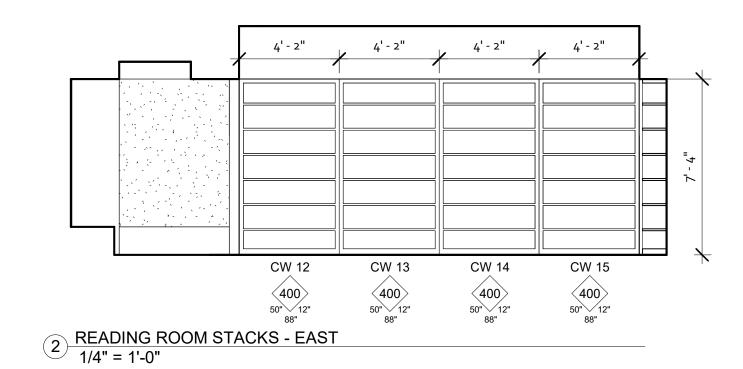
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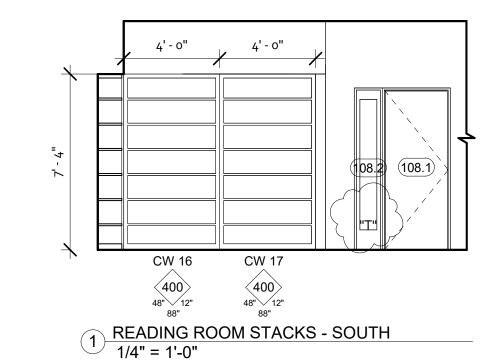
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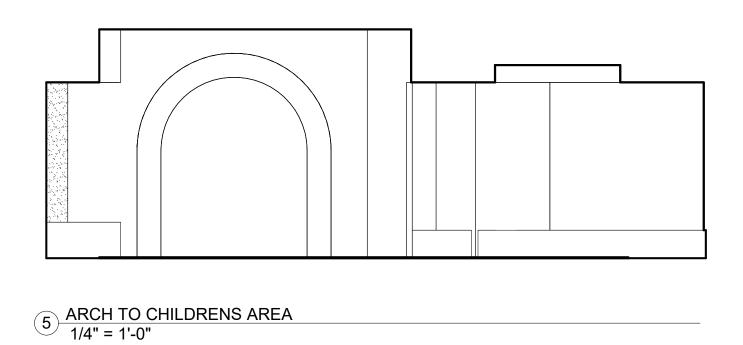
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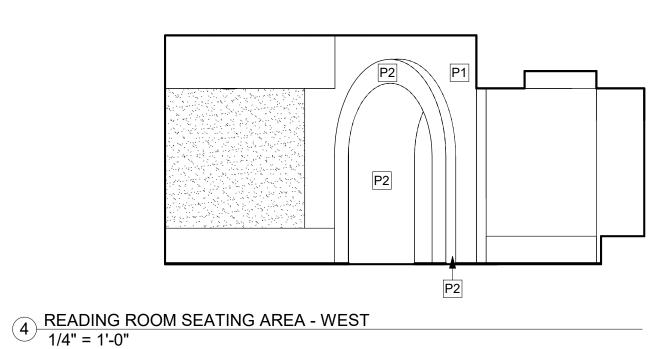
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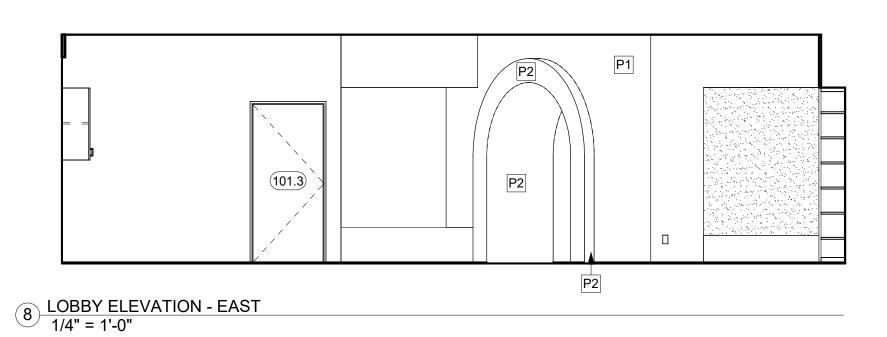


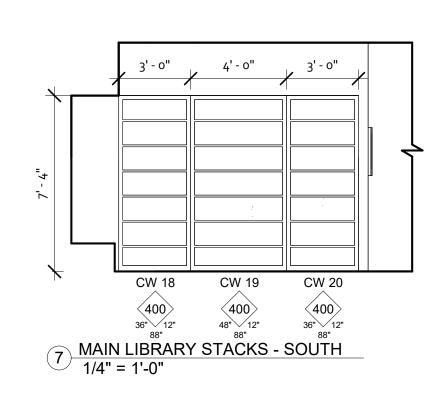


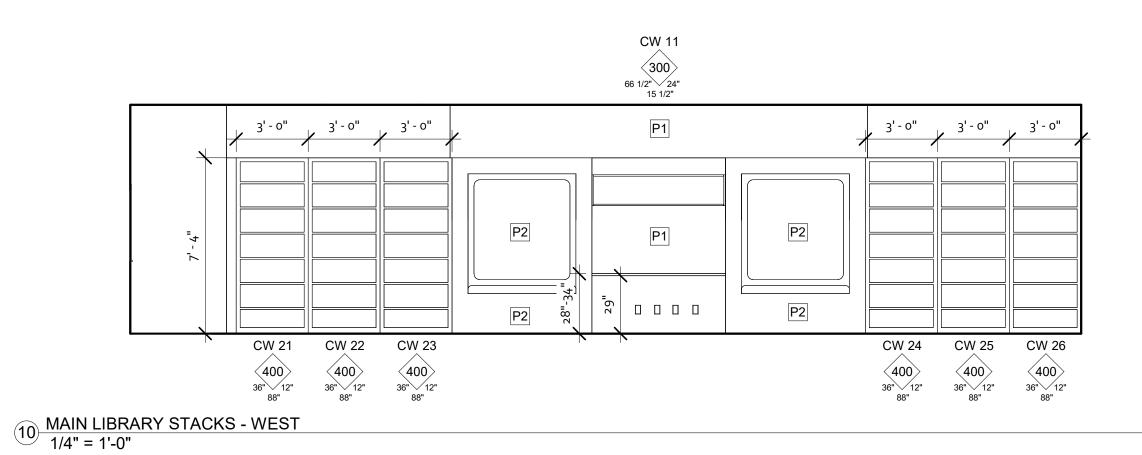


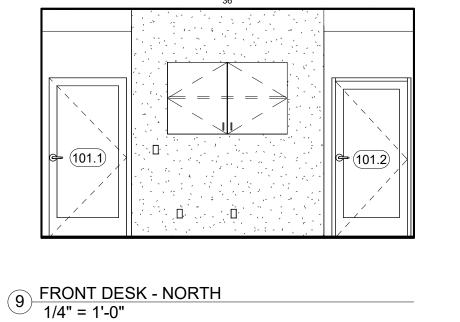












CW 10 302 60" 14"

LEGEND

FOR INTERIOR WINDOW TYPES REFER TO SCHEDULE ON SHEET A_{3.1}.

FOR INTERIOR DOOR TYPES REFER TO SCHEDULE ON SHEET A_{3.1}.

FOR FINISHES REFER TO SCHEDULE ON SHEET A2.2.

FOR EQUIPMENT REFER TO SCHEDULE.

CW 01 ← CASEWORK MARK - REFER TO CASEWORK SCHEDULE

30" ✓24" ← CABINET SIZE (WIDTH, HEIGHT, DEPTH)

DENOTES TEMPERED GLAZING, TYPICAL

GENERAL NOTES

REFER TO ARCHITECTURAL WOODWORK STANDARDS CASEWORK DESIGN SERIES (CDS) FOR ADDITIONAL INFORMATION.

FIELD VERIFY ROUGH OPENING DIMENSION PRIOR TO FABRICATING CASEWORK. REVIEW ANY REQUIRED ADJUSTMENTS TO HEIGHT, DEPTH OR WIDTH OF CASEWORK UNITS WITH ARCHITECT.

REFER TO CASEWORK DETAILS SHEET A8.0 FOR FURTHER INFORMATION.

OPERABLE PARTS SHALL BE WITHIN A 48 INCH MAXIMUM HEIGHT REACH WHEN OBSTRUCTIONS ARE 10-INCHES OR LESS AND AT 46 INCHES MAXIMUM HEIGHT REACH WHEN OBSTRUCTIONS ARE BETWEEN 10-24 INCHES.

PROVIDE LOCKS ON CABINET DOORS

FOR SHELVING QUANTITY REFER TO CASEMENT SCHEDULE ON A5.0

SHEET NOTES

1. SHEET NOTE

KEYNOTES



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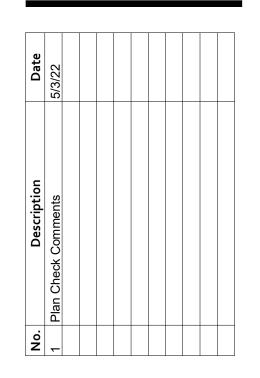
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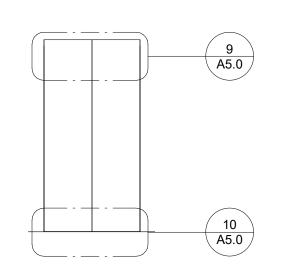
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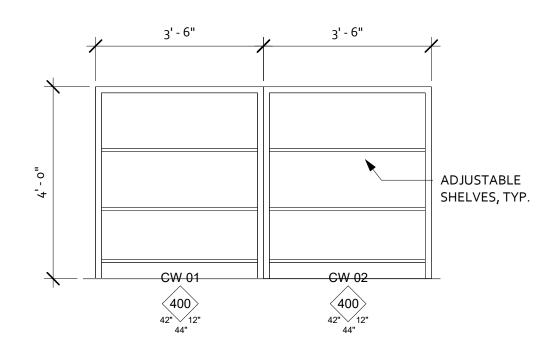
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Drawing Title: INTERIOR **ELEVATIONS**



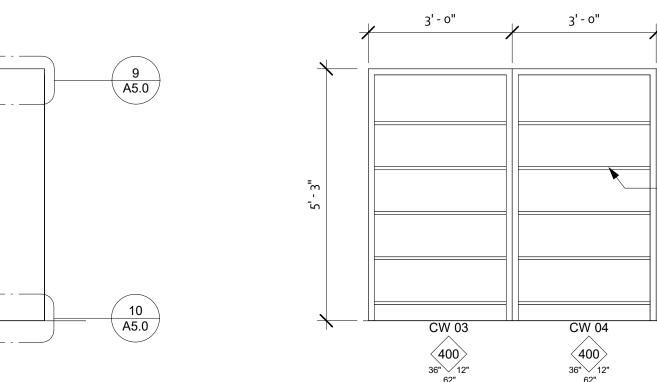
READING ROOM STACKS - ENDS 1/2" = 1'-0"



ADJUSTABLE SHELVES, TYP.

> 400> 36" 12" 62"

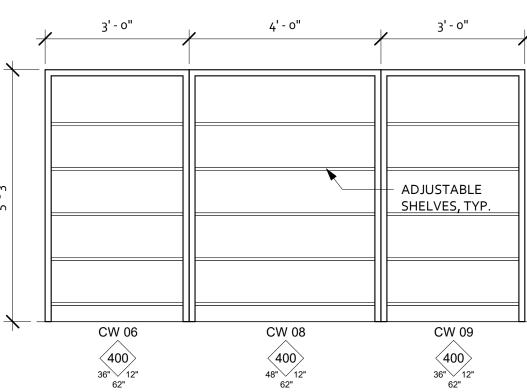
2 READING ROOM STACKS - SHELVES 1/2" = 1'-0"



1 MAIN STACKS 1 - ENDS 1/2" = 1'-0"

3 MAIN STACKS 2 - ENDS 1/2" = 1'-0"

9 A5.0



8 MAIN STACKS 1 - SHELVES 1/2" = 1'-0"

12 MAIN STACKS 2 - SHELVES
1/2" = 1'-0"

LEGEND

FOR INTERIOR WINDOW TYPES REFER TO SCHEDULE ON SHEET A_{3.1}.

FOR INTERIOR DOOR TYPES REFER TO SCHEDULE ON SHEET A_{3.1}.

FOR FINISHES REFER TO SCHEDULE ON SHEET A2.2.

FOR EQUIPMENT REFER TO SCHEDULE.

CW 01 ← CASEWORK MARK - REFER TO CASEWORK SCHEDULE

30" ✓24" ← CABINET SIZE (WIDTH, HEIGHT, DEPTH)

DENOTES TEMPERED GLAZING, TYPICAL

GENERAL NOTES

REFER TO ARCHITECTURAL WOODWORK STANDARDS CASEWORK DESIGN SERIES (CDS) FOR ADDITIONAL INFORMATION.

FIELD VERIFY ROUGH OPENING DIMENSION PRIOR TO FABRICATING CASEWORK. REVIEW ANY REQUIRED ADJUSTMENTS TO HEIGHT, DEPTH OR WIDTH OF

CASEWORK UNITS WITH ARCHITECT. REFER TO CASEWORK DETAILS SHEET A8.0 FOR FURTHER INFORMATION. OPERABLE PARTS SHALL BE WITHIN A 48 INCH MAXIMUM HEIGHT REACH WHEN

OBSTRUCTIONS ARE 10-INCHES OR LESS AND AT 46 INCHES MAXIMUM HEIGHT REACH WHEN OBSTRUCTIONS ARE BETWEEN 10-24 INCHES.

PROVIDE LOCKS ON CABINET DOORS FOR SHELVING QUANTITY REFER TO CASEMENT SCHEDULE ON A5.0

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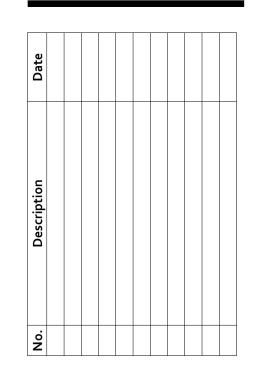
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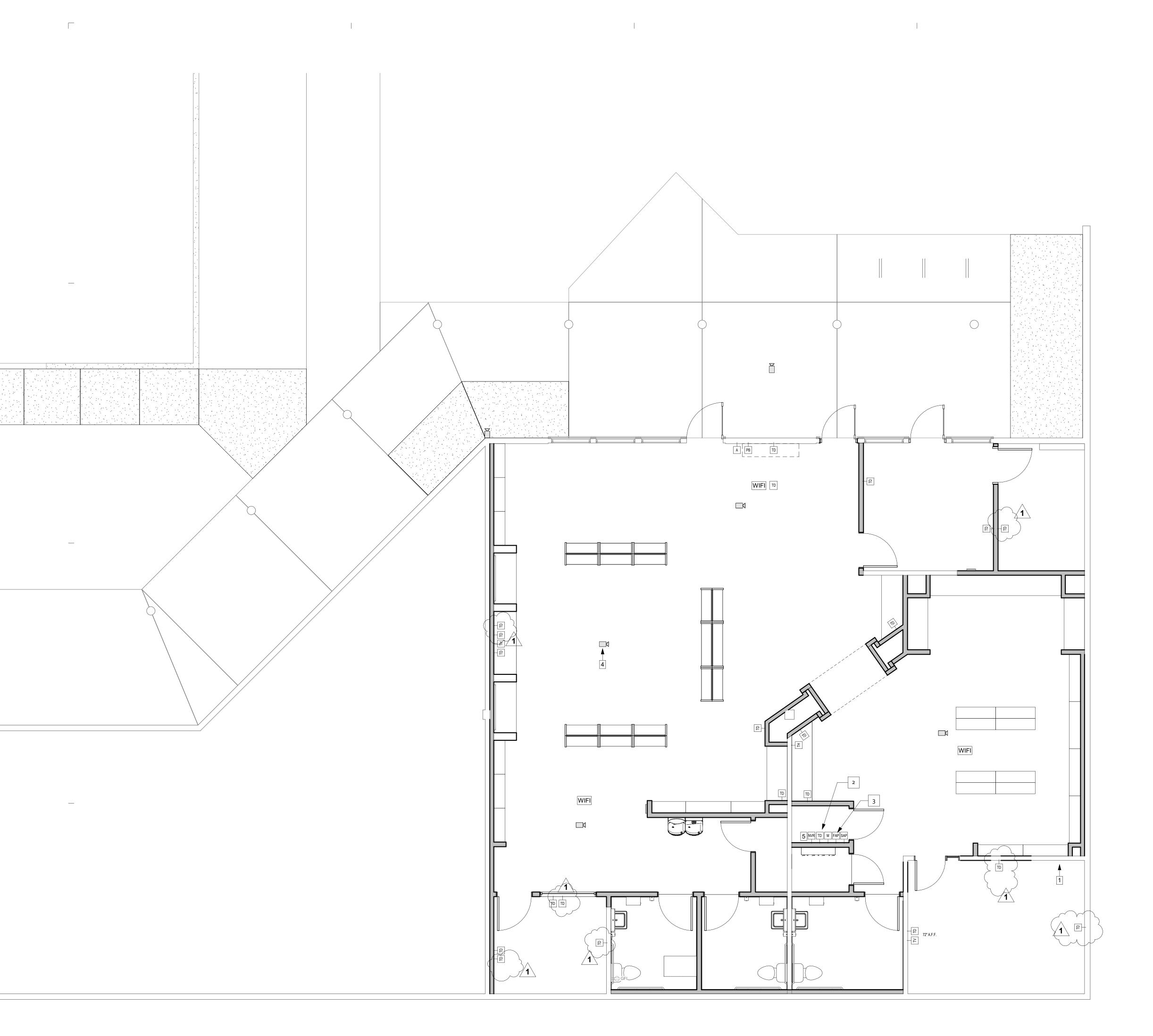
Drawing Title: SHELVING **ELEVATIONS**

JOB SET

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LEGEND

ALARM KEYPAD 2x DATA JACK

T.V./ CABLE JACK

THERMOSTAT TEMPERATURE CONTROL SYSTEM

CABLE SERVICE: STUB IN TEN (10) SERVICE LINES

NETWORK VIDEO RECORDER LOCATION

MONITOR LOCATION

FIRE ALARM PANEL LOCATION

SECURITY ALARM PANEL LOCATION

FIRE ALARM PULL BOX

SECURITY CAMERA LOCATION; 12" BELOW FINISHED CEILING OR ABOVE

DROP CEILING FOR 360 DEGREE CAMERAS

WIRELESS ACCESS POINT; 2X CAT 6 ETHERNET DROP

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, UNLESS OTHERWISE NOTED
- CONTRACTOR TO PROVIDE COMPETE ROUGH-IN (CONDUIT AND OUTLET BOX) SYSTEM FOR EACH LOW-VOLTAGE SYSTEM SHOWN
- PROVIDE CONDUIT WITH PULLS FROM ALL LOW-VOLTAGE ITEMS SHOWN ON
- PLANS TO HOME PANEL CONSULT WITH VENDOR ON LAYOUT. 360 DEGREE CAMERA ARE COMMON AND

PROVIDE GREAT VISIBILITY. CABLING TO REFLECT NEW LOCATIONS.

SHEET NOTES

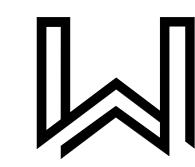
- HDMI PLUG TO BE ADDED WALL MOUNT DATA RACK FOR INTERNET CONNECTION
- FIRE ALARM CONTROL PANEL DEFERRED SUBMITTAL
- GC SHALL PROVIDE 180 DEGREE SECURITY CAMERA; COORDINATE WITH NC FACILITIES PM. CAMERA SYSTEM MFG – AVIGILON. INCLUDE: AVIGILON NVR SIZED FOR (5) 180 DEGREE CAMERAS AND 365 DAYS OF MOTION STORAGE. THE SYSTEM WILL NOT BE REQUIRED TO STORE NON MOTION TIME. INCLUDE A WALL MOUNTED RACK FOR THE NVR IN THE STORAGE ROOM. INCLUDE (5) AVIGILON 180 DEGREE CAMERAS THAT HAVE

DAY AND NIGHT VIDEO CAPABILITY AND (2) CAT 6 WIRES TO EACH CAMERA

FROM THE NVR. EXTEND AT&T LINES FROM ATTIC TO THIS LOCATION ON BACKBOARD (66 BLOCK)

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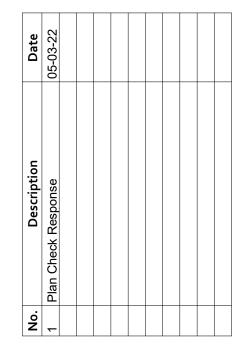
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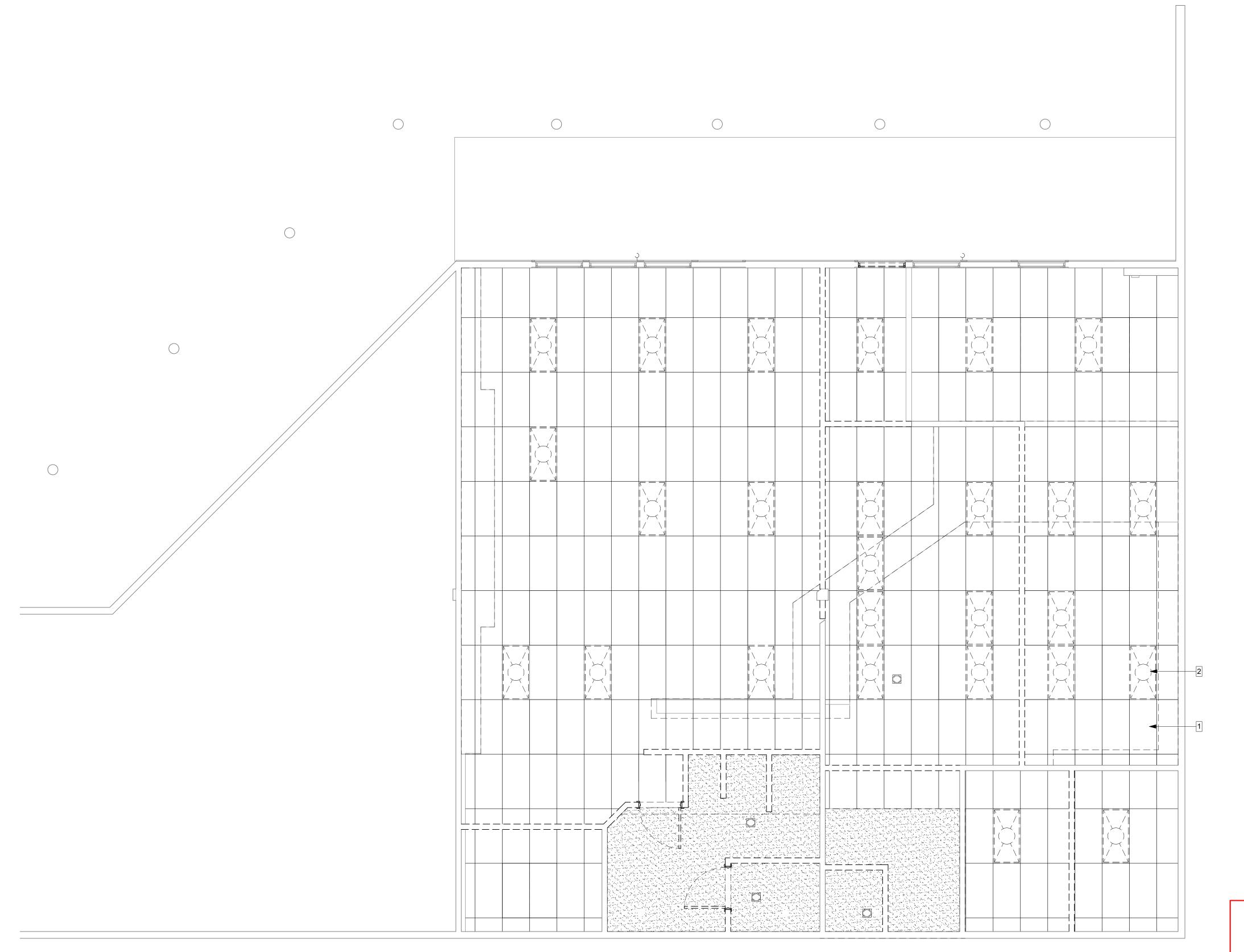


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02.17.2022

Drawing Title: LOW VOLTAGE PLAN



LEGEND

GYPSUM BOARD CEILING, TYPICAL SUSPENDED ACOUSTICAL CEILING LOCATION ILLUMINATED EXIT SIGN, BATTERY BACK-UP TYPICAL ILLUMINATED EXIT DIRECTIONAL SIGN, BATTERY BACK-UP. EMERGENCY EGRESS LIGHTING, WALL MOUNTED LIGHT FIXTURE - DOWNLIGHT - RECESSED IN CEILING 0

2X4 TROFFER LIGHT TO BE RELOCATED

RETURN AIR DIFFUSER LOCATION SUPPLY AIR DIFFUSER LOCATION **EXHAUST FAN**

CEILING FINISHES

CSS-1 ACOUSTICAL CEILING GRID ASSEMBLY, TYPICAL **EXISTING**

AP-1 ACOUSTICAL CEILING TILE, TYPICAL ARMSTRONG STYLE: ULTIMA HIGH NRC 15/16 BEVELED TEGULAR LAY IN

P4 PAINTED, TYPICAL

SIZE:

GENERAL NOTES

2'X4'X7/8"

- A. LAYOUT OF SUSPENDED FIXTURES & RECESSED FIXTURES, REFER TO ELECTRICAL DOCUMENTS.
- RECESSED CAN LIGHT FIXTURES SHALL BE ARRANGED AS INDICATED ON
- ARCHITECTURAL DOCUMENTS. ILLUMINATED EXIT SIGNS SHALL BE CENTERED ABOVE DOOR OPENINGS,
- EXIT ROUTE SIGNAGE SHALL BE WALL MOUNTED ADJACENT TO DOOR AND/OR PASSAGE WAY OPENING AT ALL LOCATIONS PROVIDED WITH AN
- ILLUMINATED EXIT SIGN. ELECTRICAL AND MECHANICAL CONTRACTORS SHALL COORDINATED FIXTURE AND DIFFUSER LOCATIONS, ALL CONFLICTS SHALL BE REVIEWED BY
- ELECTRICAL AND MECHANICAL CONTRACTORS SHALL COORDINATED FIXTURE AND DIFFUSER LOCATIONS WITH SPRINKLER HEAD LOCATIONS, ALL
- CONFLICTS SHALL BE REVIEWED BY ARCHITECT. ACOUSTICAL TILE CEILING LAYOUT SHALL BE COORDINATED WITH SUSPENDED INDIRECT/DIRECT LIGHTING FIXTURES.
- VERTICAL MEMBERS OF SOFFITS SHALL BE PAINTED THE SAME COLOR AS
- HORIZONTAL SURFACE, UNO. AT NEW CEILING LOCATION CENTER T-GRID WITHIN ROOMS, UNO.
- EXIT SIGNS, REFER TO EXITING PLANS AND ELECTRICAL DOCUMENTS.
- PAINT ALL GYPSUM BOARD CEILINGS P1, UNO.
- TYPICAL ACOUSTICAL CEILING HEIGHT IS 10'-0" AFF, UNO. TYPICAL GYPSUM BOARD CEILING HEIGHT IS 9'-0" AFF, UNO.
- SUSPENDED T-BAR CEILING AREA NOT TO EXCEED 2,500 SF WITHOUT AN EXPANSION JOINT. JOINT LOCATION TO BE DETERMINE BY COPNTRACTOR IN FIELD. SEE DETAILS

SHEET NOTES

- ALL LAY IN PANELS TO BE REMOVED & REPLACED.
- REMOVE ALL EXISTING LIGHT FIXTURES & STORE FOR REUSE.

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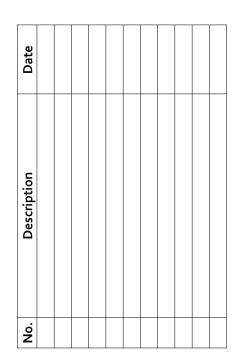
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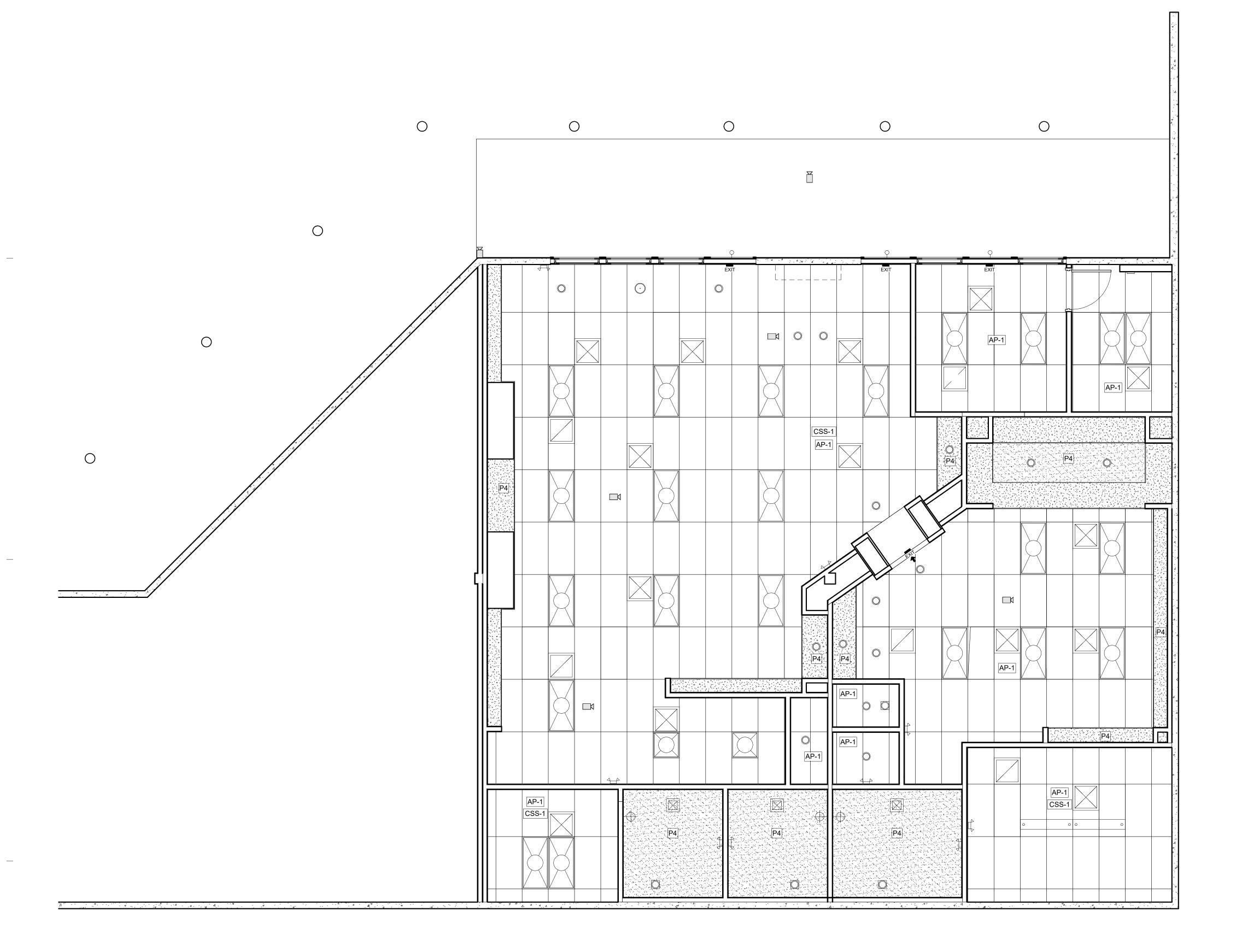
2021020 02.17.2022 1/4" = 1'-0"

Drawing Title: REFLECTED **CEILING DEMO**

PLAN

A6.0
5/6/2022 4:35:04 PM

1 1ST FLOOR - CEILING PLAN DEMO 1/4" = 1'-0"



1 1ST FLOOR - CEILING PLAN 1/4" = 1'-0"

LEGEND

GYPSUM BOARD CEILING, TYPICAL SUSPENDED ACOUSTICAL CEILING LOCATION ILLUMINATED EXIT SIGN, BATTERY BACK-UP TYPICAL ILLUMINATED EXIT DIRECTIONAL SIGN, BATTERY BACK-UP. EMERGENCY EGRESS LIGHTING, CEILING MOUNTED EMERGENCY EGRESS LIGHTING, WALL MOUNTED LIGHT FIXTURE - DOWNLIGHT - RECESSED IN CEILING LIGHT FIXTURE - PENDANT LIGHT VANITY LIGHT 2X4 TROFFER LIGHT 2X2 TROFFER LIGHT DIRECT/INDIRECT LIGHT RETURN AIR DIFFUSER LOCATION SUPPLY AIR DIFFUSER LOCATION **EXHAUST FAN**

CEILING FINISHES

CSS-1 ACOUSTICAL CEILING GRID ASSEMBLY, EXISTING

AP-1 ACOUSTICAL CEILING TILE, TYPICAL ARMSTRONG

STYLE: ULTIMA HIGH NRC 15/16 BEVELED TEGULAR LAY IN SIZE: 2'X4'X7/8"

P4 PAINTED, TYPICAL

GENERAL NOTES

- LAYOUT OF SUSPENDED FIXTURES & RECESSED FIXTURES, REFER TO ELECTRICAL DOCUMENTS.
- RECESSED CAN LIGHT FIXTURES SHALL BE ARRANGED AS INDICATED ON
- ARCHITECTURAL DOCUMENTS. ILLUMINATED EXIT SIGNS SHALL BE CENTERED ABOVE DOOR OPENINGS, UNO.
- EXIT ROUTE SIGNAGE SHALL BE WALL MOUNTED ADJACENT TO DOOR AND/OR PASSAGE WAY OPENING AT ALL LOCATIONS PROVIDED WITH AN ILLUMINATED EXIT
- ELECTRICAL AND MECHANICAL CONTRACTORS SHALL COORDINATED FIXTURE AND DIFFUSER LOCATIONS, ALL CONFLICTS SHALL BE REVIEWED BY ARCHITECT.
- ELECTRICAL AND MECHANICAL CONTRACTORS SHALL COORDINATED FIXTURE AND DIFFUSER LOCATIONS, ALL CONFLICTS SHALL BE REVIEWED BY ARCHITECT.
- ACOUSTICAL TILE CEILING LAYOUT SHALL BE COORDINATED WITH SUSPENDED INDIRECT/DIRECT LIGHTING FIXTURES.
- VERTICAL MEMBERS OF SOFFITS SHALL BE PAINTED THE SAME COLOR AS HORIZONTAL SURFACE, UNO.
- EXIT SIGNS, REFER TO EXITING PLANS AND ELECTRICAL DOCUMENTS.
- PAINT ALL GYPSUM BOARD CEILINGS P1, UNO.
- TYPICAL ACOUSTICAL CEILING HEIGHT IS 9'-6 1/2" AFF, UNO. TYPICAL GYPSUM BOARD CEILING HEIGHT IS 9'-0" AFF, UNO.
- SUSPENDED T-BAR CEILING AREA NOT TO EXCEED 2,500 SF WITHOUT AN EXPANSION JOINT. JOINT LOCATION TO BE DETERMINE BY COPNTRACTOR IN FIELD. SEE DETAILS

SHEET NOTES

NOT USED

KEYNOTES

REVIEWED

CODE COMPLIANCE

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ARCHITECTS, INC.

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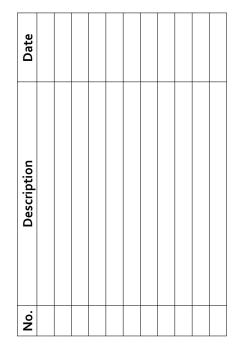
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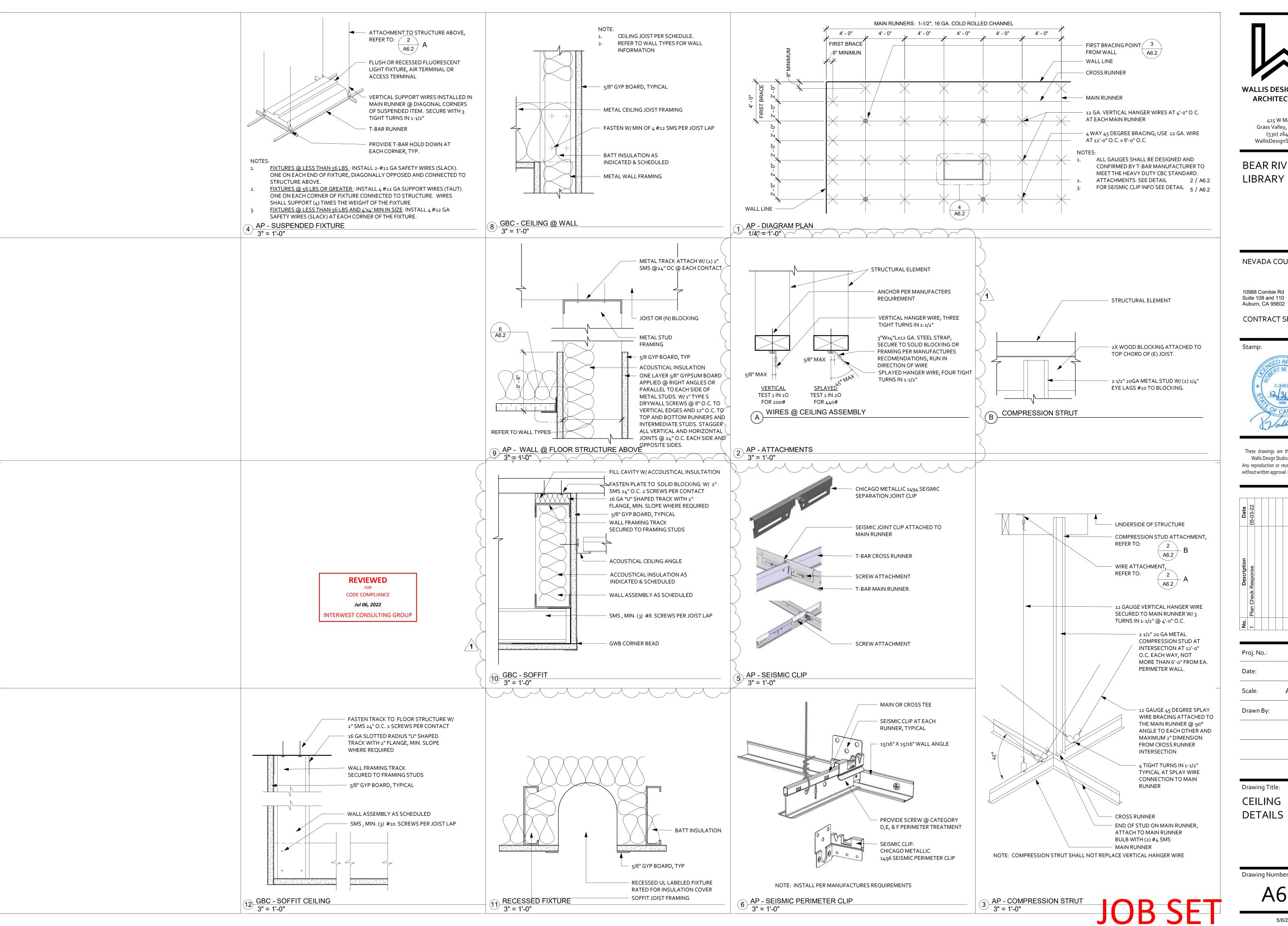


2021020 02.17.2022 1/4" = 1'-0"

Drawn By:

Drawing Title: REFLECTED **CEILING PLAN**

A6.1
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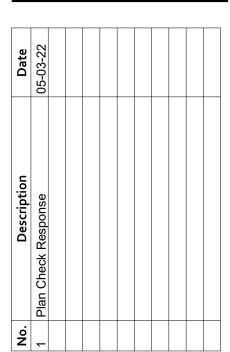
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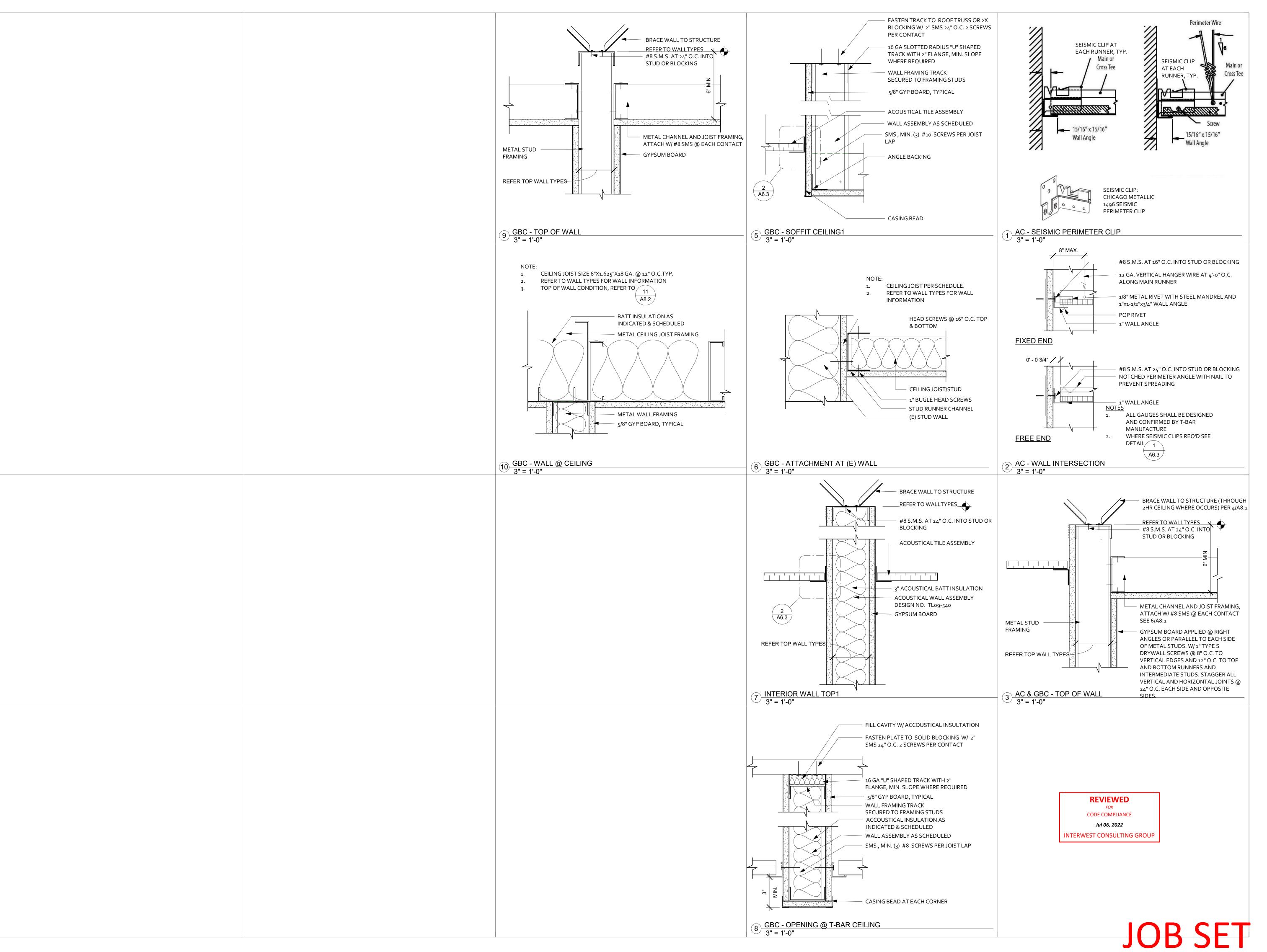
CF

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Drawing Title:

CEILING **DETAILS**

A6.2



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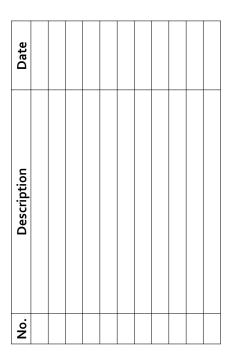
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CF

cale: 3" = 1'-0"

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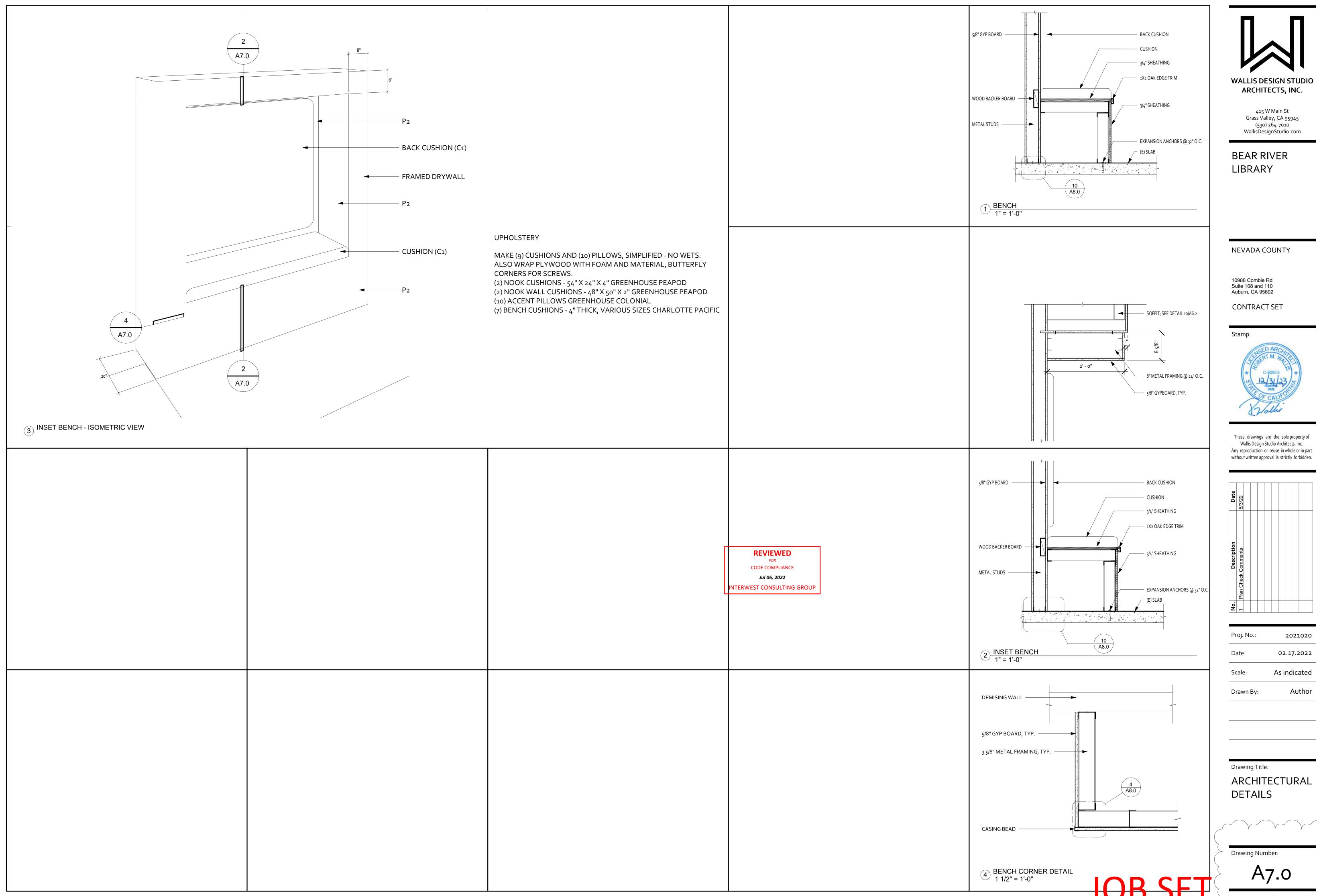
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CEILING DETAILS

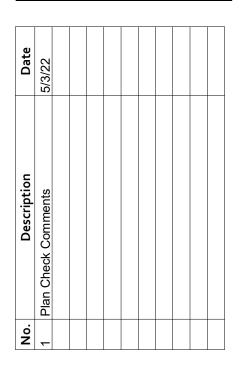
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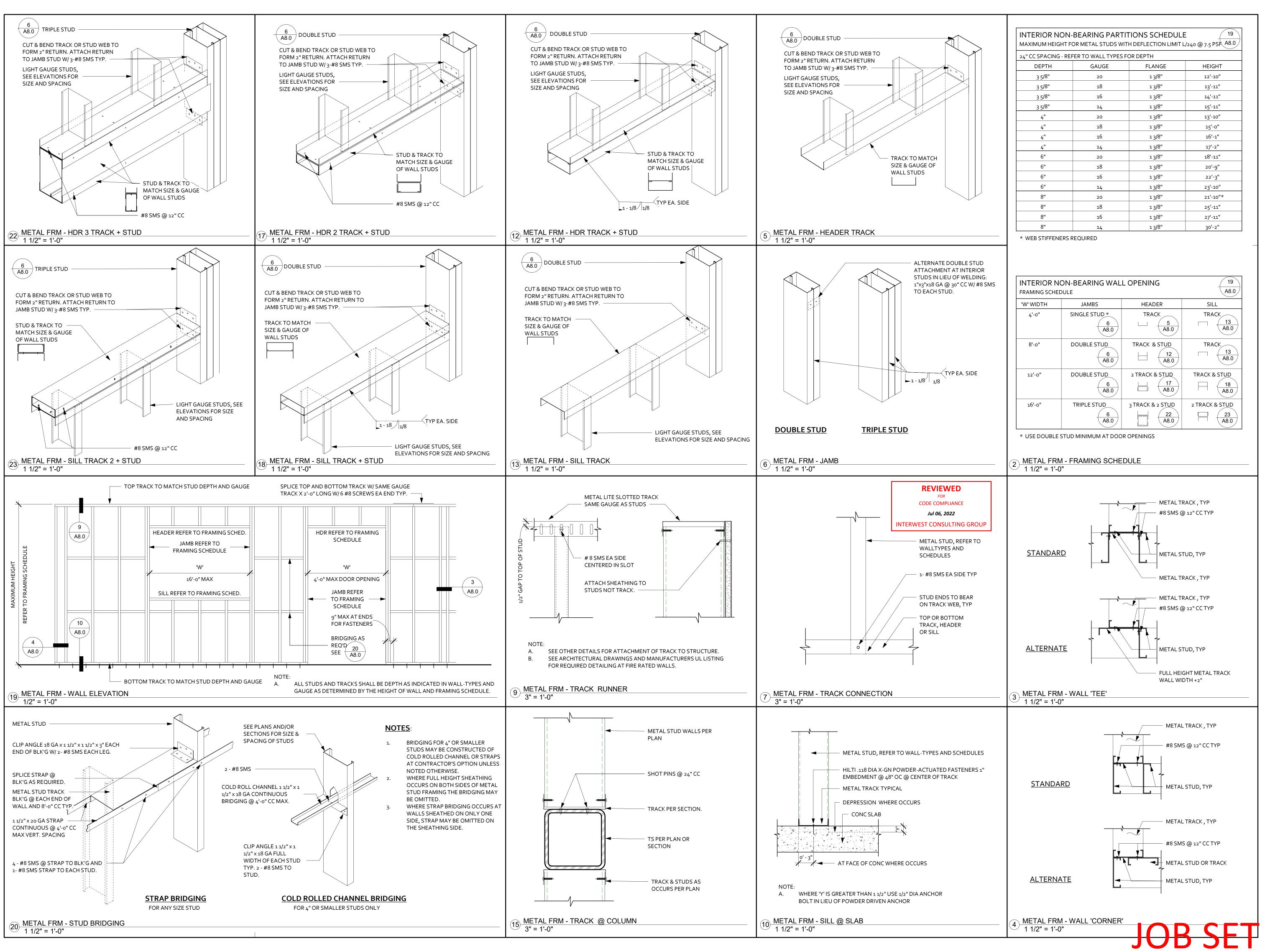
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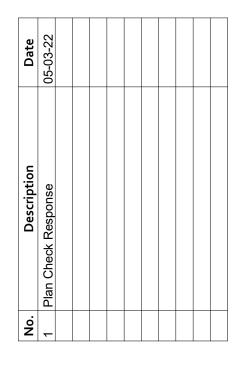
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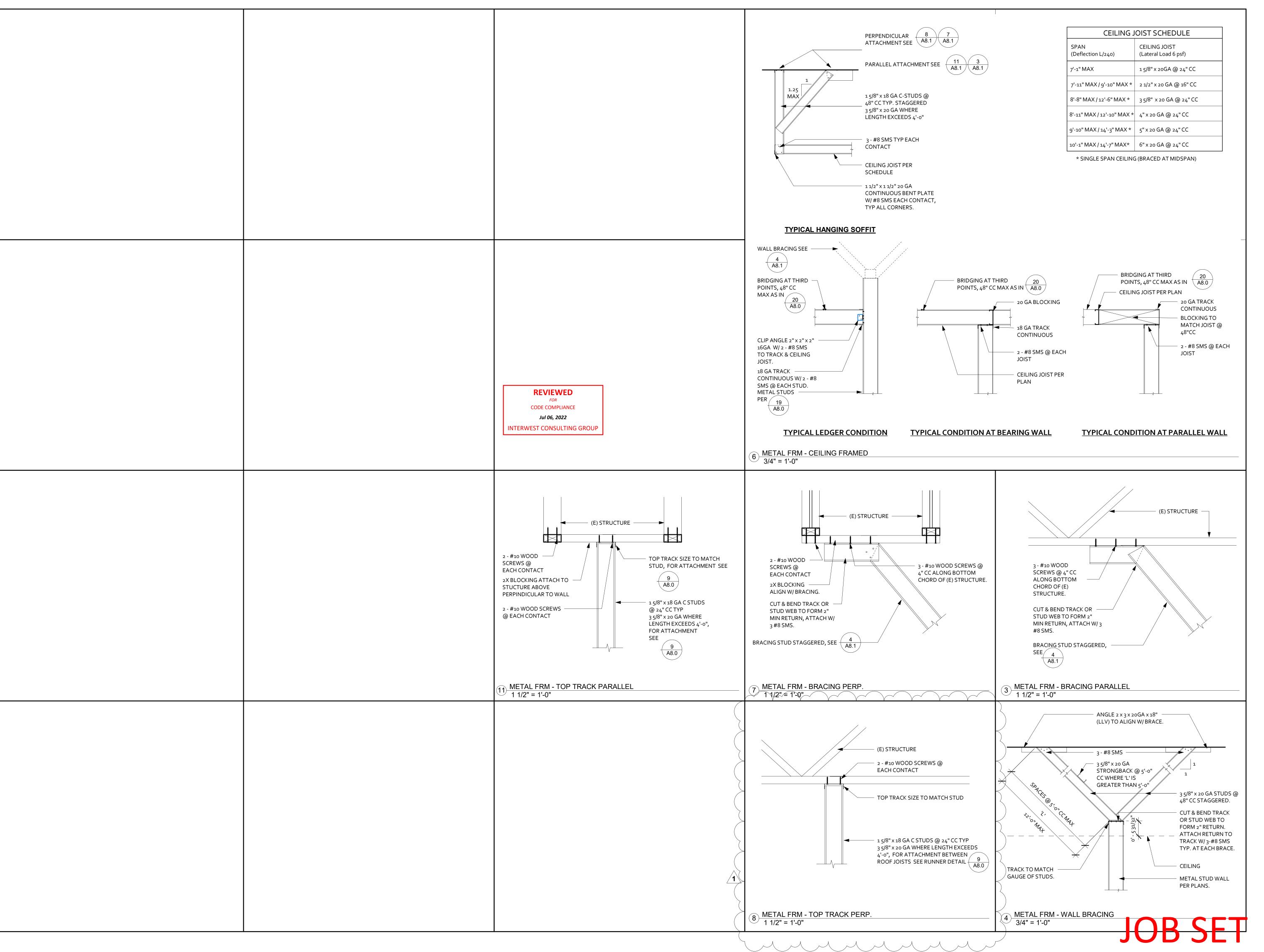
Drawing Title:

NON-BEARING WALL FRAMING DETAILS

Drawing Number:

A8.o

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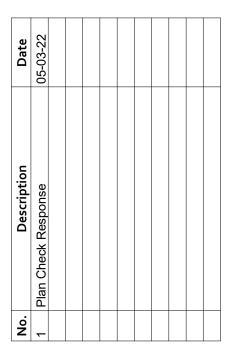
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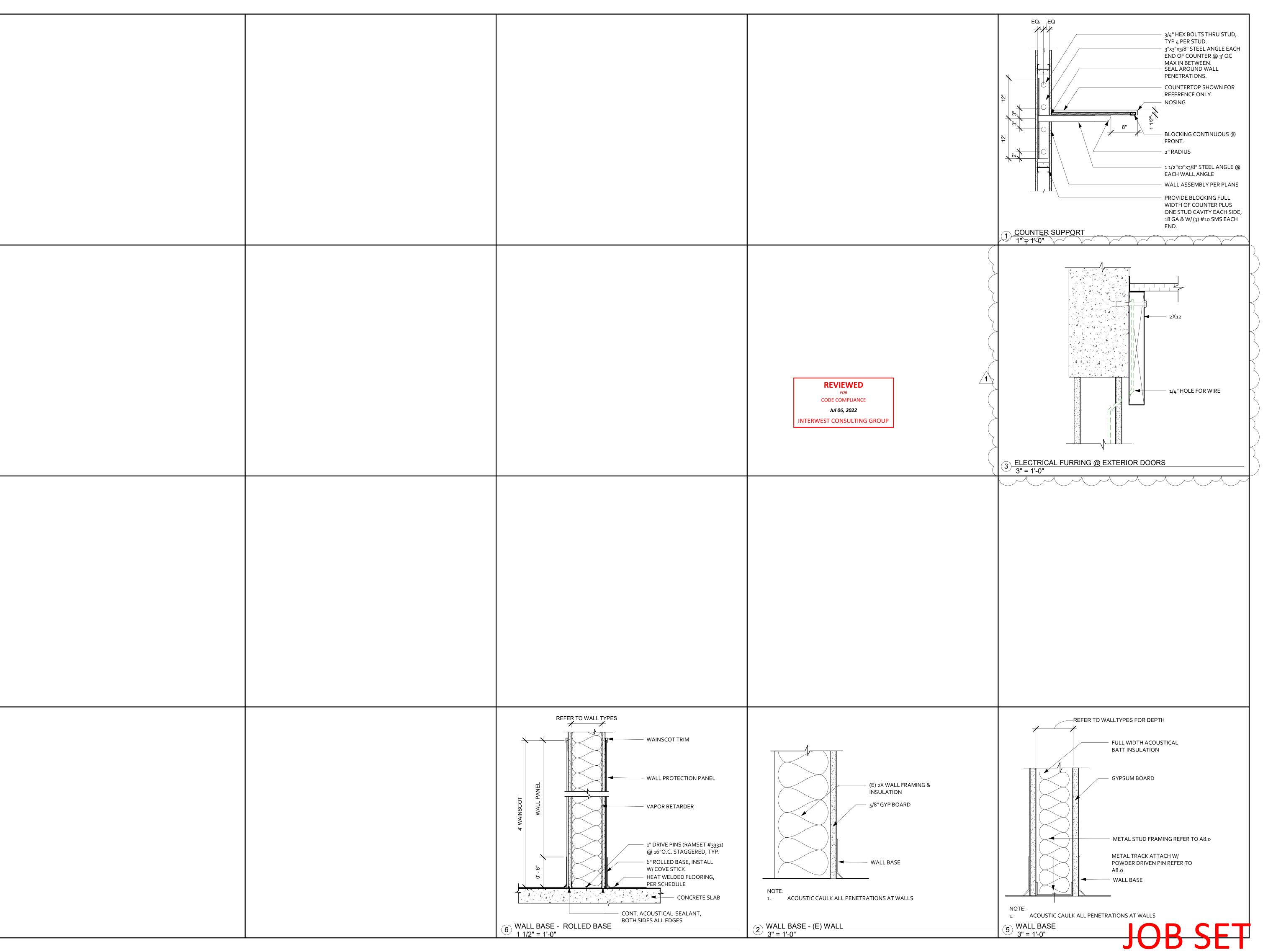
Drawing Title:

NON-BEARING WALL FRAMING DETAILS

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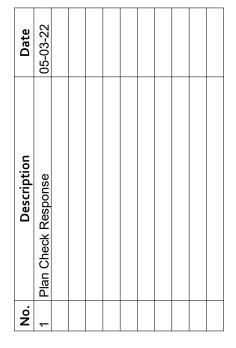
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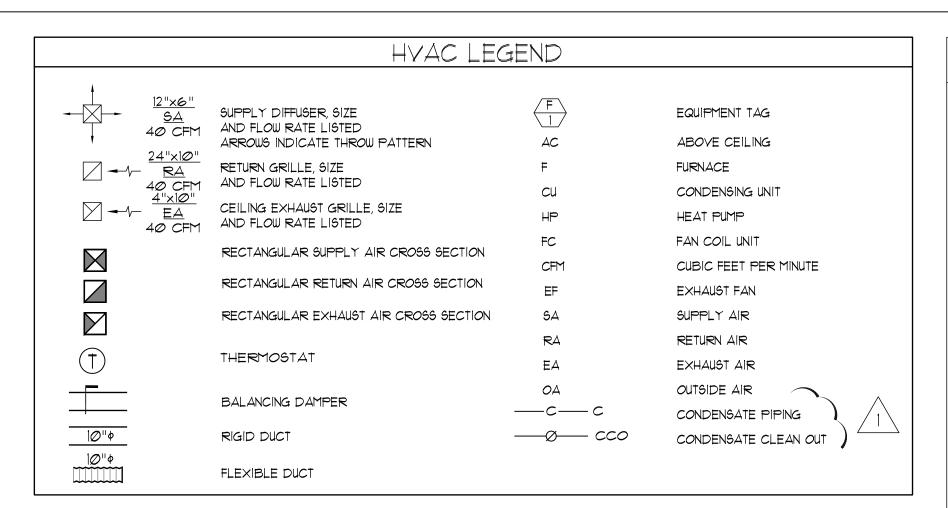
Drawing Title:

INTERIOR AND MISC. DETAILS

Drawing Number

A8.2

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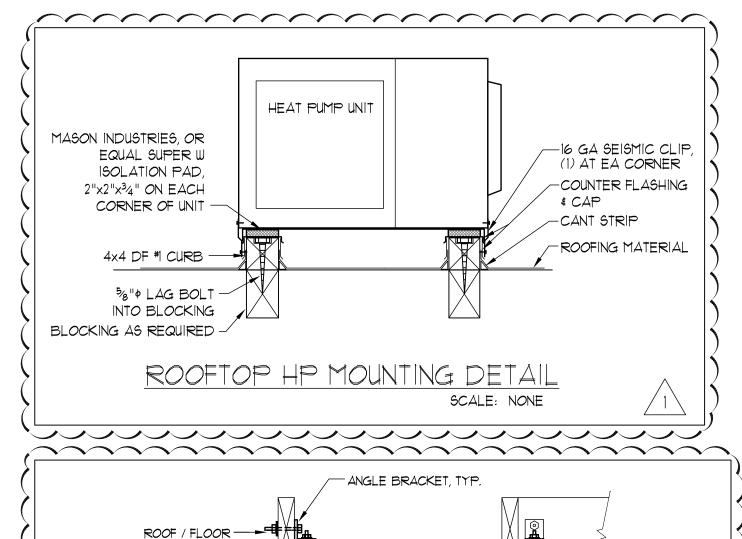


-INSTALL BLOCKING OR

UNISTRUT CHANNEL AS

DUCT

NEEDED



HANG FANCOIL UNIT PER——
MANUFACTURE'S

HANGER BRACKET

SPECIFICATIONS FROM ROOF

/ FLOOR FRAMING AND / OR

BLOCKING W/ (4) 3/8" ALL

FANCOIL UNIT

-PRIMARY CONDENSATE

FRAMING VIBRATION

ISOLATOR

OUTSIDE AIR

RETURN AIR

FC-1 SUPPORT DETAIL

DUCT

1. SCOPE OF WORK

• EXISTING FANCOIL UNITS TO REMAIN.

• DEMONE ALL SUPPLY DETURN AND OUTSIDE AIR DUCTING ERA

 REMOVE ALL SUPPLY, RETURN AND OUTSIDE AIR DUCTING FROM BOTH FANCOIL UNITS.

REMOVE EXISTING EXHAUST FANS.
PROVIDE ALL NEW DUCTING FOR EXISTING FANCOIL UNITS AS INDICATED ON PLANS.

 INSTALL NEW DUCTED MINI-SPLIT SYSTEM HEAT PUMPS AS INDICATED ON PLANS.
 2. A COMPLETE INSTALLATION OF HVAC WORK INDICATED ON THE

DRAWINGS. ALSO, PROVIDE ANY INCIDENTAL WORK NOT SHOWN OR SPECIFIED, WHICH CAN REASONABLY BE INFERRED OR TAKEN AS BELONGING TO THE WORK AND NECESSARY TO PROVIDE THE COMPLETE SYSTEM.

3. IT IS THE INSTALLING CONTRACTORS' RESPONSIBILITY TO ASSURE ALL MECHANICAL SYSTEMS FUNCTION PROPERLY, SAFELY, AND MEET ALL LOCAL, STATE AND REGIONAL CODES.

4. ALL WORK IS TO CONFORM TO THE ACCEPTED STANDARDS OF THE TRADE. THE ENGINEER IS TO BE NOTIFIED IF ANY SUBSTITUTIONS ARE SEEN TO BE NECESSARY.

5. CONTRACTOR SHALL PARTICIPATE IN BID WALK-THRU AND SHALL FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS. BIDS SHALL BE ADJUSTED TO ACCOMMODATE ANY EXISTING CONDITIONS WHICH ARE NOT SHOWN ON PLANS AND ARE VISIBLE DURING WALK-THRU. ANY AND ALL DEVIATIONS FROM PLANS SHALL BE BROUGHT TO THE

ARCHITECTS ATTENTION.

6. CONTROLS - GENERAL

COMPONENT.

A.THE VENTILATION SYSTEM SHALL BE WIRED TO OPERATE CONTINUOUSLY DURING OCCUPIED HOURS. DURING UNOCCUPIED HOURS THE UNIT SHALL CYCLE ON AND OFF WITH A DEMAND FOR HEATING AND COOLING.

B.ROOM THERMOSTATS SHALL BE PROGRAMMABLE WITH 5-1-1 DAY C.PROGRAMMING AND 24-HOUR HEATING AND COOLING SETBACK CAPABILITY.

D.THERMOSTATS SHALL BE INSTALLED WHERE INDICATED ON PLANS, 48 INCHES ABOVE FINISHED FLOOR LEVEL.

48 INCHES ABOVE FINISHED FLOOR LEVEL.

E.INSTALLING SUB-CONTRACTOR SHALL PROVIDE ENGINEER WITH

COMPLETE CONTROL SCHEMATIC INCLUDING SUBMITTALS FOR EACH

 AIR DIFFUSERS AND RETURN/EXHAUST GRILLES SHALL BE SHOEMAKER, OR EQUAL. PROPOSED MODEL NUMBERS FOR DIFFERENT APPLICATIONS ARE AS FOLLOWS: HVAC NOTES

MODEL * REMARKS
100 MA MODULAR

MODULAR CORE WITH
T-BAR PANEL
THROW PATTERN INDICATED

THROW PATTERN INDICATED
CLG GYPSUM SUPPLY MA (W/ OBD) MODULAR CORE
THROW PATTERN INDICATED

CLG GYPSUM RETURN 915 HORIZONTAL BAR
FIXED BLADE

CLG T-BAR RETURN 105P PERFORATED FACE
WITH T-BAR PANEL

DOOR LOUVER 4000 VISION PROOF ALUMINUM
TRANSFER GRILLE
8. FOR EXACT LOCATION OF DIFFUSERS AND GRILLES REFER TO

ARCHITECTURAL REFLECTED CEILING PLAN.

9. PROVIDE CAM-FARR, 2 INCH DEEP, MERV-13 FILTERS IN RETURN AIR

PLENUM OF AIR HANDLERS. INSTALL DOWNSTREAM OF RETURN AIR AND FRESH AIR INTAKE.

10. SLOPE ALL CONDENSATE LINES AT 1/4" PER FOOT. CONDENSATE

SHALL TERMINATE INDIRECTLY TO LAV TAIL PIECE OR OTHER APPROVED PLUMBING FIXTURE. SHALL BE 3/4" SCHEDULE 40 PVC UNLESS OTHERWISE NOTED.

11. INSULATE CONDENSATE LINE WITH ARMSTRONG® 1/2" WALL THICKNESS

"DG TUBO-SLIT". COND = 0.29 (BTU-IN/HR- °F) AT 15 °F IN ACCORDANCE WITH ASTM C 171 OR C 518 WITH THIRD PARTY TESTING SUPERVISION. WHERE PIPING IS EXPOSED TO WEATHER PROVIDE PVC JACKETING AROUND INSULATION.

12. <u>DUCT MATERIAL AND SEALING:</u>

<u>APPLICATION</u>

CLG T-BAR SUPPLY

A.DUCTING IN CONCEALED LOCATION SHALL BE GALVANIZED SHEET METAL. PRE-INSULATED FLEX DUCT MAY BE USED AS LEADERS (5' MAX.) TO AND FROM AIR TERMINALS, PER CMC 603.4.1. DUCT SHALL BE MANUFACTURED IN ACCORDANCE WITH CHAPT. 6 OF THE 2019 CMC AND SMACNA GUIDELINES.

B.PRE-INSULATED FLEX DUCT SHALL HAVE AN R-VALUE = 6.0.

C.FACTORY-FABRICATED DUCT SYSTEMS SHALL COMPLY WITH ULISI.

D.METAL TO METAL JOINTS SHALL BE SEALED WITH MASTIC SEALANT

SEALANT ACCORDING TO MANUFACTURER'S RECOMMENDATION.

E.INNER 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.

TO PROVIDE AIRTIGHT PROTECTION PRIOR TO INSULATION. APPLY

F. WHERE TURNS AND/OR TRANSITIONS EXCEED 45 DEGREES USE SHEET METAL FITTINGS AND ELBOWS. PROVIDE SHEET METAL SLEEVES FOR ALL SPLICES.

G.CORRUGATED ALUMINUM FLEX DUCT SHALL NOT BE ALLOWED.

H.ALL TAPES AND MASTIC SEALANTS SHALL COMPLY WITH UL181, UL
181A, OR UL181B.

13. INCREASE DUCT SIZES GRADUALLY, NOT EXCEEDING 15 DEGREES DIVERGENCE WHEREVER POSSIBLE. DIVERGENCE UPSTREAM OF EQUIPMENT SHALL NOT EXCEED 20 DEGREES: CONVERGENCE DOWNSTREAM SHALL NOT EXCEED 30 DEGREES.

(14. SUPPORTS AND HANGERS FOR DUCTING SHALL BE IN ACCORDANCE WITH THE 2019 CALIFORNIA MECHANICAL CODE AND IN ACCORDANCE WITH SMACNA HYAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE. DUCTS SHALL BE SUPPORTED AT EACH CHANGE OF DIRECTION. SUPPORTS AND 8' INTERVALS (MIN.).

15. WRAP ALL UNLINED CONCEALED SUPPLY AND RETURN DUCTS WITH O.C. FIBERGLASS DUCT WRAP OR JM MICROLITE, 2" THICK AND I" PER CUBIC FOOT DENSITY. WRAP INSULATION ENTIRELY AROUND DUCT AND WIRE SECURELY IN PLACE WITH #16 WIRE 12" O.C. ON EACH SIDE OF STANDING SEAM AND OVER INSULATION JOINT. LAP ALL INSULATION JOINTS 3" MIN. INSULATE DUCTS TIGHT AGAINST OTHER WORK BEFORE HANGING IN PLACE.

16. DUCTS SHALL BE LINED WITH 1" INTERIOR LINING NO CASE LESS THAN 5 FEET OF AIR MOVING DEVICE. DUCT LINING SHALL BE 1" OWENS CORNING QUIETR®, OR EQUAL. MATERIAL HAS A 'K' ØF Ø.23 (BTU/HR-FT-°F), Ø.7 NRC SOUND ABSORPTION COEFFICIENT.

17. AT TIME OF ROUGH INSTALLATION OR DURING STORAGE OF THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HYAC SYSTEM, ALL DUCTING AND RELATED AIR DISTRIBUTION COMPONENTS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL, OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST OR DEBRIS WHICH MAY COLLECT IN THE SYSTEM.

18. AIR DISTRIBUTION SYSTEM SHALL BE BALANCED WITH AN APPROVED AND CALIBRATED AIR FLOW MEASURING DEVICE IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH BY THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB). PROVIDE INDICATED AIR FLOW RATES (WITHIN ±5%). PROVIDE OWNER WITH COMPLETE AIR BALANCE REPORT.

19. NO DUCTED OR NON-DUCTED AIR MOVING DEVICE SHALL TERMINATE IN ATTIC.

| | | | | | | | | HVAC E | QUIPM | ENT SCH | EDULE | | | | | | |
|-------------|----------------------------------|-------------------|----------------------|----------------------|-------------------------------|---------|-------------|-----------|------------------------|-----------------------|-------------|-----------|-------------|-----------------------------|--------------|--|---|
| | | | COOLING | | HEATING | | | FAN | | | ELECT. | | | | | | |
| 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) (MIN) | VOLTAGE | MCA | COMP. LRA | FUSE/MOCP | MFGR & MODEL NO. | WEIGHT (LBS) | EFFICIENCY | REMARKS |
| FC-1 | SHERIFF'S OFFICES | 9,000 | 6,500 | 80/65 | 11400 | 47 | 350 | 0.4 | 40 | (3) | 1.0 | (3) | (3) | MITSUBISHI #PEAD-A09AA7 | 58 | | HORIZONTAL DUCTED FANCOIL PROVIDE CONDENSATE PUMP (3) DIMENSIONS: H=9-7/8", W=35-7/16", D=28-7/8" BUILT-IN FLOAT SWITCH FOR CONDENSATE SOUND - 38 DbA |
| HP-1 (6) | SHERIFF'S OFFICES | 9,000 | 6,500 | 80/65 | 11400 | 47 | | | | 208/230 V. 1 PHASE | 11 | | 15 | MITSUBISHI #SUZ-KA09NAR1 | 66 | HSPF = 11.5 SEER = 19.4 EER = 12.5 | ROOF MOUNTED OUTDOOR HEAT PUMP SOUND - 46 DbA DIMENSIONS: H=21-5/8", W=31-1/2", D=14-5/16" |
| FC-2 (E) | CHILDREN'S SECTION CONFERENCE | | | | N.A. (4) | 47 | 1200 (5) | 0.5 | 200 | 208/230 V. 1 PHASE | N.A. (4) | | N.A. (4) | CARRIER # AQ036300B4 | N.A. (4) | N.A. (4) | EXISTING FANCOIL UNIT TO REMAIN MOUNTED IN HORIZONTAL POSITION |
| HP-2 (E) | CHILDREN'S SECTION CONFERENCE | N.A. (4) | N.A. (4) | N.A. (4) | | | | | | 208/230 V. 3 PHASE | 16.7 | 87 | 25 | CARRIER # 23QNO36500 | N/A | N/A | EXISTING ROOFTOP CONDENSING UNIT TO REMAIN |
| FC-3 (E) | MAIN LIBRARY CIRCULATION | | | | N.A. (4) | 47 | 1200 (5) | 0.5 | 200 | 208/230 V. 1 PHASE | N.A. (4) | | N.A. (4) | CARRIER # AQ036300B4 | N.A. (4) | N.A. (4) | EXISTING FANCOIL UNIT TO REMAIN MOUNTED IN HORIZONTAL POSITION |
| HP-3 (E) | MAIN LIBRARY CIRCULATION | N.A. (4) | N.A. (4) | N.A. (4) | | | | | | 208/230 V. 3 PHASE | 16.7 | 87 | 25 | CARRIER # 23QNO36500 | N/A | N/A | EXISTING ROOFTOP CONDENSING UNIT TO REMAIN |
| NOTES: | | | 1 | 1 | | | | | | | | | l l | | 1 | | -1 |

NOTES:
(1) ELECTRICAL FOR INDOOR UNIT, FC-1 WILL BE PROVIDED BY OUTDOOR UNIT HP-1.

(2) FLOAT SWITCH FOR FC-1 WILL INTERRUPT POWER TO THE FANCOIL UNIT WHEN MOISTURE IS DETECTED IN THE DRAIN PAN.

THIS SATISFIES THE REQUIREMENT FOR SECONDARY CONDENSATE.

(3) CONDENSATE PUMP SHALL BE GOBI II, MANUFACTURED BY REFCO. SPECIFICATIONS: 11 GPH, HEAD = 65 FT, 1.3 LBS, 20 DBA.

(4) PERFORMANCE DATA FOR EXISTING EQUIPMENT IS NOT AVAILABLE.

(5) THIS IS AN ESTIMATED AIRFLOW BASED ON TONNAGE.
 (6) NEW OUTDOOR CONDENSING UNIT SHALL BE ROOF MOUNTED. CONSULT OWNER'S REPRESENTATIVE FOR ACTUAL LOCATION.

| | 3/8"\$ LAG WITH 2" — ROOF JOISTS / BLOCKING / GLULAM BEAMS |
|-----------------|---|
| $ \cdot $ | MIN. EMBEDMENT |
| | BEND TO ANCHOR ANCHOR ON THE |
| | SIDE IN TOP |
| | I MAX THIRD OF JOIST / LINE BLOCKING |
| | |
| | WHERE REQUIRED 3/8" SAMMY'S WOOD ROD ANCHOR, STRAP HANGER |
| | 3" MIN. EMBEDMENT |
| | FASTEN STRAP TO DUCT W/ 4 MIN. #12×3" TEK PER MFGR'S SPEC. |
| $ \mathcal{E} $ | SCREWS 1"x22 GA STRAP \$ HANGER |
| | at 8'-0" (MAX.) |
| $ \mathcal{E} $ | DUCT WALL MOUNT TRAPEZE HANGERS |
| | BRACKET AT 8'-0" W/ 3/8" PHANGER ROD |
| | (MAX.) BOTH SIDES (TYP) |
| | |
| $ \cdot $ | |
| | 1-5/8" 16gage |
| | DUCT MOUNTING DETAILS UNISTRUT |
| | NOTE: 1.) PROVIDE TRAPEZE / DUCT HANGER BRACING PER OPM-0043 OR OPM-0052 |
| 7 | |

REFER TO MANUFACTURER'S

INSTALLATION INSTRUCTIONS

 $, \ldots, \ldots, \ldots, \ldots, \ldots, \ldots, \ldots, \ldots, \ldots, \ldots$

| | | | | | | EXHAUST FAN SCHEDULE | | | | | | | | | | | | | |
|--------|--------------------|-------------|---------------------|-----|-----------|----------------------|-------------------|-----|-------|--|--------------|-------|---|--|--|--|--|--|--|
| | COOLING FAN ELECT. | | | | | | | | | | | | | | | | | | |
| SYMBOL | QTY. | AREA SERVED | DESCRIPTION | CFM | S.P. (WC) | RPM | VOLTAGE | ВНР | WATTS | MFGR & MODEL NO. | WEIGHT (LBS) | SONES | REMARKS | | | | | | |
| EF-1 | 1 | BATHROOM 1 | CEILING CABINET FAN | 111 | 0.25 | | 115 V. 1 PHASE | | 16.4 | PANASONIC WHISPERCEILING™ SMARTFLOW™ FV-0511VQ1 | 11.0 | 0.9 | UNIT HAS BUILT-IN BACKDRAFT DAMPER EXHAUST FAN SHALL HAVE 6" DUCT CONNECTION FAN SHALL BE ENERGIZED BY ROOM LIGHT SWITCH SELECT DESIRED AIRFLOW (50-80-110 CFM) | | | | | | |
| EF-2 | 1 | BATHROOM 2 | CEILING CABINET FAN | 80 | 0.25 | | 115 V. 1 PHASE | | 10.8 | PANASONIC WHISPERCEILING™ SMARTFLOW™ FV-0511VQ1 | 11.0 | 0.6 | UNIT HAS BUILT-IN BACKDRAFT DAMPER EXHAUST FAN SHALL HAVE 4" DUCT CONNECTION FAN SHALL BE ENERGIZED BY ROOM LIGHT SWITCH SELECT DESIRED AIRFLOW (50-80-110 CFM) | | | | | | |
| EF-3 | 1 | BATHROOM 3 | CEILING CABINET FAN | 80 | 0.25 | | 115 V. 1 PHASE | | 10.8 | PANASONIC WHISPERCEILING™ SMARTFLOW™ FV-0511VQ1 | 11.0 | 0.6 | UNIT HAS BUILT-IN BACKDRAFT DAMPER EXHAUST FAN SHALL HAVE 4" DUCT CONNECTION FAN SHALL BE ENERGIZED BY ROOM LIGHT SWITCH SELECT DESIRED AIRFLOW (50-80-110 CFM) | | | | | | |
| EF-4 | 1 | SERVER | CEILING CABINET FAN | 150 | 0.25 | | 115 V. 1 PHASE | | 20.2 | PANASONIC WHISPERCEILING™ SMARTFLOW™ FV-1115VQ1 | 11.1 | 0.7 | UNIT HAS BUILT-IN BACKDRAFT DAMPER EXHAUST FAN SHALL HAVE 6" DUCT CONNECTION FAN SHALL BE ENERGIZED BY COOLING ONLY THERMOSTAT SELECT DESIRED AIRFLOW (110-130-150 CFM) | | | | | | |

(1) INSTALL/MOUNT EXHAUST FANS ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
 (2) EF-4 SHALL BE ENERGIZED BY COOLING ONLY LINE VOLTAGE THERMOSTAT. SET THERMOSTAT AT 85°F.

REVIEWED

FOR

CODE COMPLIANCE

Jul 06, 2022

INTERWEST CONSULTING GROUP

MELAS
ENERGY
ENGINEERING
ENERGY & MECHANICAL CONSULTANTS

FAX (530) 265-2213

547 UREN STREET

NEVADA CITY, CA 95959

PHONE (530) 265-2492

| Revisions: | REVADA COUNTY | Nevada COUNTY |

4. (E) CONDENSATE PIPING TO BE REUSED AS SECONDARY CONDENSATE PIPING 5. (E) THERMOSTATS TO BE RELOCATED. REFER TO NEW PLAN. 6. (E) CONDENSATE TERMINATION (E) FC-3 ABV. CLG. TO REMAIN (E) FC-2 ABV. CLG. TO REMAIN (E) EF Ė======

DEMOLITION KEYED NOTES

P. EXISTING EXHAUST FANS TO BE REMOVED

3. EXISTING EXHAUST DUCTING AND RISER TO

AS INDICATED ON NEW PLAN.

EXISTING FANCOIL UNITS TO REMAIN. REPLACE ALL

SUPPLY AND RETURN AIR DISTRIBUTION SYSTEMS

REVIEWED

FOR

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Jul 06, 2022

INTERWEST CONSULTING GROUP

(E) 14"x6" ÖA (E) 14"x6" 0\d LOUVER LOUVER UNDERCUT INTERVIEW <u>10"×10" SA</u> 190 CFM SHERIFF) 100 CFM <u>10"×10" SA</u> 210 CFM 16" AA 500 CFM CHILDRENS SECTION (E)
RELOCATED 10"×10" 5A 210 CFM 8"\$ 10"×10" SA 210 CFM 10"×10" 5A 210 CFM 10"x10" DOOR LOUVER 10"ø 🗔 BATHROOM 3 CONFERENCE ROOM OFFICE

1st FLOOR HVAC PLAN - NEW

SCALE: 1/4" = 1'-0"



MELAS
ENERGY
ENGINEERING

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

NEW HYAC PLAN KEYED NOTES

INSTALL (N) 24"x20"x2" MERV-13 FILTER. PROVIDE

APPROPRIATE TRANSITION BETWEEN (E) FC AND

. (E) FANCOIL UNITS TO REMAIN. INSTALL ALL NEW DUCTING INCLUDING SUPPLY AND RETURN

3. CONNECT (N) 8" Ø EA DUCT TO (E) 8" Ø EA DUCT, RESEAL (E) CONNECTIONS AS REQUIRED FOR AN

4. (E) 10"x6" EA DUCT RISER. FIELD VERIFY DIMENSIONS. FIELD VERIFY THAT (E) EA DUCT RISER TERMINATES THROUGH ROOF AND IS NOT

DISCONNECT PRIMARY CONDENSATE COIL CONNECTION FROM (E) CONDENSATE PIPING.

REUSE (E) CONDENSATE PIPING SYSTEM FOR

PIPE CONNECTION TO (E) DRAIN PAN BELOW

FANCOIL UNIT & CONNECT TO (E) CONDENSATE

6. PUMPED CONDENSATE RISER. CONDENSATE PUMP SHALL BE GOBI 2 AS MANUFACTURED BY REFCO:

. TERMINATE PRIMARY CONDENSATE INDIRECTLY

ID. INSTALL (N) CONDENSATE CLEAN OUT AT UPPER END OF SECONDARY CONDENSATE PIPING

II. INSTALL CLEANOUT ON GRAVITY DRAINAGE SECTION OF PRIMARY CONDENSATE PIPING

11 GPH AT 65 FT. HEAD, 100-240 VAC, 8 W, 20 dBA

SECONDARY CONDENSATE ONLY, PROVIDE (N)

(N) FILTER BOX

OBSTRUCTED.

TO MOP SINK

8. RELOCATE (E) THERMOSTATS

 $\frac{1}{2}$ 9. (E) CONDENSATE TERMINATION

AIRTIGHT DUCT SYSTEM



BEAR RIVER LIBRARY

NEVADA COUNTY

Sheet Title:

BEAR RIVER LIBRARY

NEVADA COUNTY

NEVADA COUNTY

AUBURN, CA 95602

Sheet Title:

HVAC FLOOR PLANS

Plot Date:

Job#

4/21/2022

22-016

as noted

2-3-2022

M1.1

JOB SE

SCALE: 1/4" = 1'-0"

1st FLOOR HVAC PLAN - DEMOLITION



GREASE WASTE WATER HEATER (SEE SCHEDULE, CWR,D COLD WATER RISER DROP HWR,D HOT WATER RISER, DROP HWRT HOT WATER RETURN WCO, GCO WALL CLEANOUT, GRADE CLEANOUT P.O.C. POINT OF CONNECTION

CLEANOUT COLD WATER PIPING ——— — HW HOT WATER PIPING HOT WATER RETURN PIPING SANITARY WASTE PIPING VENT PIPING ----- V INDIRECT WASTE LINE SHUT OFF VALVE (S.O.V.) (LINE SIZED) ----------- д GAS PIPING, SIZE INDICATED 1" G (378) GAS FLOW IN KBTU/hr

0+

INDICATED IN PARENTHESIS

GAS REGULATOR

GAS SHUT-OFF BIBB

<u>SANITARY WASTE & VENTING MATERIALS</u> (A) DRAINAGE WASTE AND VENT PIPING SHALL BE SCHEDULE 40 ABS DWY NO HUB CAST IRON OR OTHER APPROVED MATERIAL HAVING A SMOOTH AND UNIFORM BORE, FITTINGS SHALL BE MADE OF SIMILAR MATERIAL.

EXCEPTION: 1) NO HUB CAST IRON SHALL BE USED WHERE SLOPE OF WASTE LINE IS LESS THAN 1/4 IN PER FOOT, OR WHERE WASTE PIPING IS ROUTED

BETWEEN FLOORS OR RISERS IN WALLS. (A) VENT PIPING SHALL EXTEND 12 INCHES ABOVE THE ROOF (MIN.) AND SHALL BE FLASHED WITH GALVANIZED ROOF JACKS AND RUBBER, WATERPROOF, VENT COLLARS. THE MINIMUM VENT SIZE AT VENT EXTENSION THROUGH ROOF SHALL BE 3" (MIN.) TO PREVENT FROST/SNOW CLOSURE. THE CHANGE IN DIAMETER SHALL BE MADE INSIDE THE BUILDING AT LEAST ONE (1) FOOT BELOW THE ROOF. VENTS SHALL BE PLACED ADJACENT TO UPPER RIDGE OF ROOF AND SHALL BE PROTECTED BY "MURPHY SPLITTER" OR METAL FORMED CRICKET APPROVED BY ADMINISTRATIVE AUTHORITY.

POTABLE WATER PIPING

(A) WATER PIPE AND FITTINGS SHALL BE TYPE K COPPER, ASTM B88. COPPER PIPING SHALL BE JOINED WITH VIEGA® PRESS FITTING. ALL MATERIAL USED WITHIN THE WATER SUPPLY SYSTEM, EXCEPT VALVES AND SIMILAR DEVICES, SHALL BE OF SIMILAR MATERIAL, EXCEPT WHERE OTHERWISE APPROVED BY THE ADMINISTRATIVE AUTHORITY

(B) ALL PIPING 2" AND SMALLER MAY BE NON-BARRIER PEX TUBING BY UPONOR®, VIEGA®, OR EQUAL. PEX TUBING SHALL MEET OR EXCEED THE REQUIREMENTS OF ASTM \$816-08 AND F817. FITTINGS SHALL BE ZERO LEAD FITTINGS MEETING THE REQUIREMENTS OF ASTM F1807. PEX PIPING SHALL MEET THE REQUIREMENTS OF SECTION 604.1.2 OF THE 2016 CPC. POTABLE PEX PIPING PLACED IN SOIL SHALL BE SLEEVED WITH IN ACCORDANCE WITH TABLE 604.1 (FOOTNOTE 2). THE FOLLOWING ARE EXCEPTIONS TO THE USE OF PEX PIPING:

(1)PIPING WITHIN 18 INCHES OF WATER HEATER SHALL BE TYPE L COPPER. (2) DOMESTIC HOT WATER SUPPLY AND RETURN PIPING ABOVE GRADE SHALL TYPE L COPPER.

SCHEDULE 40 PVC PIPE MEETING THE REQUIREMENTS OF ATM D 1785 MAY BE USED FOR COLD WATER DISTRIBUTION OUTSIDE THE BUILDING. FITTINGS SHALL BE IN COMPLIANCE ASTMD 2464.

PLUMBING NOTES

. <u>SCOPE OF WORK</u>

- REMOVE ALL EXISTING PLUMBING FIXTURES AS INDICATED
- ARCHITECTURAL PLANS. • REMOVE EXISTING WATER HEATERS.
- INSTALL NEW PLUMBING FIXTURES AND NEW WATER HEATER. REMOVE EXISTING PIPING NOT SHOWN TO BE REUSED ON PLANS.
- SAWCUT EXISTING SLAB FOR NEW WASTE PIPING AS INDICATED ON PLANS. PATCH TO MATCH EXISTING.
- 2. ALL WATER AND WASTE PLUMBING INSTALLATION WORK AND ALL PLUMBING MATERIALS SHALL BE IN ACCORDANCE WITH THE 2019 CALIFORNIA PLUMBING CODE.
- 3.IT IS THE INSTALLING CONTRACTOR'S RESPONSIBILITY TO ASSURE ALL MECHANICAL SYSTEMS FUNCTION PROPERLY, SAFELY, AND MEET ALL LOCAL, STATE AND REGIONAL CODES
- 4.ALL WORK IS TO CONFORM TO THE ACCEPTED STANDARDS OF THE TRADE. THE ENGINEER IS TO BE NOTIFIED IF ANY SUBSTITUTIONS ARE
- SEEN TO BE NECESSARY. 5.HOT AND COLD WATER PIPE SIZING IS BASED ON TABLE 610.4 OF THE 2019 CPC FOR A SUPPLY PRESSURE RANGE OF 46-60 PSI.
- 6.CONTRACTOR SHALL PARTICIPATE IN BID WALK-THRU AND SHALL FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS. BIDS SHALL BE ADJUSTED TO ACCOMMODATE ANY EXISTING CONDITIONS WHICH ARE NOT SHOWN ON PLANS AND ARE VISIBLE DURING WALK-THRU. ANY AND ALL DEVIATIONS FROM PLANS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION.
- 1. CONTRACTOR SHALL VERIFY SITE DIMENSIONS. NO CHANGE ORDERS WILL BE ALLOWED FOR CONDITIONS WHICH COULD BE VERIFIED BEFORE CONSTRUCTION.
- 8.CONTRACTOR SHALL COORDINATE WITH OTHER TRADES. NO CHANGE ORDERS WILL BE ALLOWED FOR ITEMS THAT COULD HAVE BEEN COORDINATED IN THE FIELD.
- 9. PLUMBING FIXTURES NOT SPECIFIED ON PLANS SHALL BE SELECTED BY INSTALLING SUBCONTRACTOR AND SUBMITTED TO OWNER'S REPRESENTATIVE FOR APPROVAL, FIXTURES SHALL MEET 2019 CPC AND CAL-GREEN CODES. MAXIMUM FLOW RATES SHALL BE AS FOLLOWS:
- SINKS 1.8 GPM • LAVATORIES (COMMERCIAL) Ø.5 GPM
- WATER CLOSETS 1.28 GPF METERING FAUCETS Ø.25 GAL/CYCLE

- 10. FURNISH AND INSTALL ALL MATERIALS AND PERFORM ALL LABOR NECESSARY FOR A COMPLETE INSTALLATION OF PLUMBING WORK INDICATED ON THE DRAWINGS, PROVIDE ANY INCIDENTAL WORK NOT SHOWN OR SPECIFIED, WHICH CAN REASONABLY BE INFERRED OR TAKEN AS BELONGING TO THE WORK AND NECESSARY TO PROVIDE
- THE COMPLETE SYSTEM. 11. PROVIDE ALL NECESSARY PLUMBING CONNECTIONS TO EQUIPMENT FURNISHED UNDER OTHER DIVISIONS OR SECTION OR BY OWNERS.
- 12.PIPING IS TO BE FIELD LOCATED IN SUCH A WAY AS TO AVOID OBSTACLES, MEET CALIFORNIA PLUMBING CODE (CPC) REQUIREMENTS AND ALLOW SERVICE CLEARANCE TO AREAS AND EQUIPMENT THAT MAY REQUIRE SERVICING.

PROVIDE SHUTOFF VALVES OR STOPS AT EACH CONNECTION.

- 13. ALL HORIZONTAL WASTE / VENT PIPES SHALL HAVE A MINIMUM SLOPE OF 1/4" PER FOOT. IF EXISTING INVERT ELEVATION DOES NOT FOR 1/4" PER FOOT, 1/8" PER FOOT WILL BE ALLOWED WITH THE WASTE PIPING UPSIZED.
- 14. HORIZONTAL VENT PIPE SHALL BE SO GRADED AND CONNECTED AS TO DRIP BACK BY GRAVITY TO THE DRAINPIPE IT SERVES PER 2019 CPC 905.2. VENT PIPE SHALL TERMINATE A MINIMUM OF 10 FEET FROM FRESH AIR INTAKE.
- 15. INSULATE ALL POTABLE HOT WATER SUPPLY PIPING WITH K-FLEX ¾" WALL THICKNESS INSUL-TUBE® OR EQUAL. CONDUCTIVITY = 0.29 (BTU-IN/HR-°F) AT 15°F IN NON-CONDITIONED SPACE, IN ACCORDANCE WITH ASTM CITT OR C518.
- 16. SLOPE ALL CONDENSATE AT 1/4" PER FT. CONDENSATE SHALL BE COPPER. INSULATE CONDENSATE PIPING WITH 1/2" WALL THICKNESS PIPE INSULATION WHERE PIPING RUNS ABOVE CONDITIONED SPACE. 17.FOR EXACT LOCATION OF PLUMBING FIXTURES AND MOUNTING
- HEIGHTS, SEE ARCHITECTURAL ELEVATIONS. 18. PIPING SHALL BE SUPPORTED AND BRACED IN ACCORDANCE WITH CHAPTER 3 OF THE 2019 CPC WITH SUPERSTRUT HANGERS, OR EQUAL PROVIDE ISOLATORS AT ALL HANGERS WHERE PIPING IS NOT INSULATED.
- 19. CLEANOUTS IN FIRE RATED WALLS SHALL HAVE BOTH METAL BODY AND COVER CONSISTENT WITH PIPE MATERIAL SCHEDULE. 20.PLUMBING VENTS SHALL BE AT LEAST 10' FROM OR 3' ABOVE ANY DOOR, OPENABLE WINDOW, MECHANICAL AIR INTAKE, OR OTHER
- INLETS INTO THE BUILDING PER CPC 906.2. 21.DISINFECTION OF WATER SYSTEM
- PRIOR TO FINAL INSPECTION, CLEAN AND DISINFECT DOMESTIC HOT AND COLD-WATER SYSTEMS, SPACE HEATING SYSTEMS AND FIRE PROTECTION SYSTEMS CONNECTED TO DOMESTIC WATER MAINS. PERFORM ALL WORK PER AWWA STANDARD PROCEDURES FOR DISINFECTING WATER MAINS AND AS REQUIRED BY LOCAL BUILDING AND HEALTH DEPARTMENT CODES.

- WITH ALL FIXTURES CONNECTED AND OPERABLE AND READY FOR USE AND WHEN, BY TEST, SYSTEM IS PROVED TO BE FREE FROM LEAKS, THOROUGHLY FLUSH BY FULLY OPENING EVERY OUTLET AND OPERATING EVERY FIXTURE UNTIL CLEAR WATER FLOWS FROM ALL OUTLETS AND FIXTURES.
- FILL SYSTEM COMPLETELY FULL OF WATER AND INJECT DISINFECTANT SLOWLY AND CONTINUOUSLY AT AN EVEN RATE (NOT IN SLUGS) UNTIL AN ORTHOTOLIDIN TEST AT EACH OUTLET SHOWS A CHLORINE RESIDUAL CONCENTRATION OF AT LEAST 50 PARTS PER MILLION (PPM).
 - MAINTAIN CONDITION FOR 24 HOURS WITH CHLORINE RESIDUAL OF 50 PPM RETAINED IN SYSTEM FOR THIS 24-HOUR PERIOD. IF, AFTER 24 HOURS, ORTHOTOLIDIN TESTS INDICATE THAT CHLORINE RESIDUAL CONCENTRATION HAS DECREASED BELOW 50 PPM. THEN DISINFECTION PROCEDURE MUST BE REPEATED UNTIL AN APPROVED RESULT IS OBTAINED.
- WHEN THE ABOVE PROCEDURE HAS BEEN COMPLETED, FLUSH OUT ENTIRE SYSTEM WITH FRESH WATER UNTIL AN ORTHOTOLIDIN TEST AT ANY OUTLET SHOWS A RESIDUAL OF NOT MORE THAN 0.02 PPM.
- POST WARNING SIGNS AT ALL OUTLETS AND IN CONSPICUOUS AREAS WHILE DISINFECTING THE SYSTEM.
- 22. TESTING OF PIPING (A) ALL PIPING SHALL TESTED AT COMPLETION OF ROUGH-IN. TEST IN ACCORDANCE WITH THE FOLLOWING SCHEDULE TO SHOW NO LOSS IN PRESSURE OR VISIBLE LEAKS AFTER A MINIMUM DURATION OF FOUR (4) HOURS AT THE TEST PRESSURE INDICATED.
- (B) ISOLATE FROM THE SYSTEM ALL EQUIPMENT WHICH MAY BE DAMAGED BY TEST PRESSURE. TEST SCHEDULE AS FOLLOWS: SYSTEM TESTED TEST PRESSURE PSIG TEST WITHIN
- ALL SOIL, WASTE, DRAIN FILL WITH WATER TO TOP OF WATER AND VENT PIPING WITHIN HIGHEST JOINT IN SYSTEM± BUILDINGS. ALLOW TO STAND 2 HOURS OR

LONGER AS DIRECTED BY INSPECTOR.

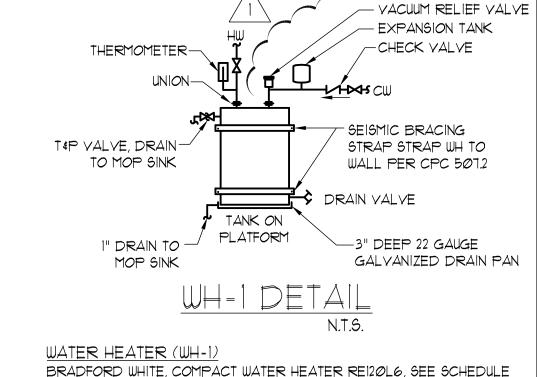
ALL HOT TEMPERED AND 150 PSIG COLD PIPING.

WATER

REVIEWED

CODE COMPLIANCE Jul 06, 2022

INTERWEST CONSULTING GROUP



BRADFORD WHITE, COMPACT WATER HEATER RE120L6, SEE SCHEDULE FOR SPECIFICATIONS A) SET WATER HEATER TEMPERATURE FOR 120 °F.

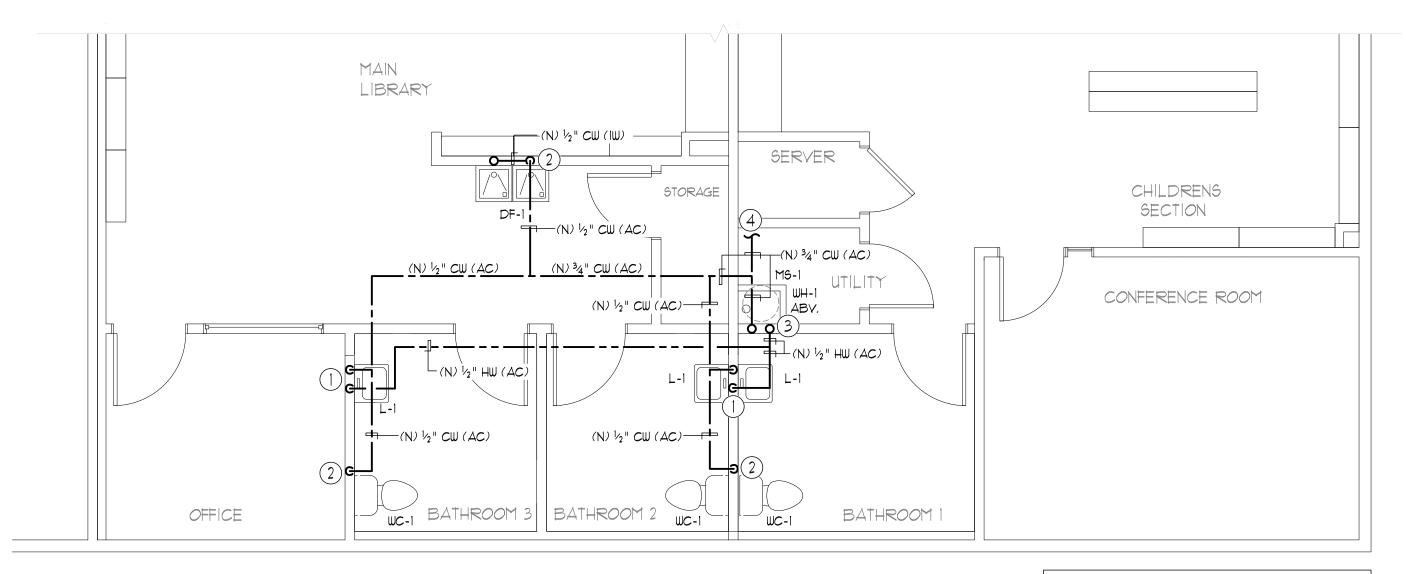
EXPANSION TANK:

EXPANSION TANK SHALL BE WILKING MODEL # XT-8, OR EQUAL. TANK VOL.=2.1 GALLONS, MAX WORKING PRESS.=150 PSIG.

PLUMBING FIXTURE SCHEDULE **SYMBOL DESCRIPTION** MFGR. & MODEL No. NOTES /ITREOUS CHINA, FLOOR MOUNT, | PROFLO PFCT103HEWH WHITE, FLOOR MTD, 17" HIGH 1.28 GAL FLUSH VALVE, ADA COMPLIANT ELONGATED BOWL, FLUSH TANK (COMPLETE TOILET WITH SEAT, WAX RING & BOLTS) /ITREOUS CHINA AMER. STD. LUCERNE 0356.421 WHITE VITREOUS CHINA LAVATORY, ADA COMPLIANT, FRONT OVERFLOW, SINGLE HOLE WALL MOUNTED LAVATORY AMER. STD. NEXTGEN SELECTRONIC, #7755.305 | CONFIGURATION. 1-1/4" P-TRAP, SINGLE HOLE 0.5 GPM TOUCHLESS MIXING FAUCET L-1 USER TEMPERATURE CONTROL, BATTERY POWERED, W/ INTEGRAL THERMOSTATIC LIMITER, ASSE 1070 LISTED WALL MOUNTED DUAL LEVEL | ELKAY EZH2O - EZSTLDDWSVRLK ADA COMPLIANT, STAINLESS STEEL BASIN, LIGHT GRAY GRANITE PANELS DRINKING FOUNTAIN WITH W/ BOTTLE FILLER, 115 VOLTS, 2.0 AMPS, 15 WATTS **BOTTLE FILLER** MOLDED FLOOR MOUNTED FLORESTONE MSR-2424 24" X 24" MOLDED FLOOR SINK WITH MR-371 VACUUM BREAKER FAUCET, MR-370 HOSE AND CLAMP, M3-375 CHROME FLAT STRAINER, MR-372 MOP HANGER, MOP RECEPTOR MR-373 STAINLESS STEEL RIM GUARD AND MR-377 24" WALL GUARD PANELS.

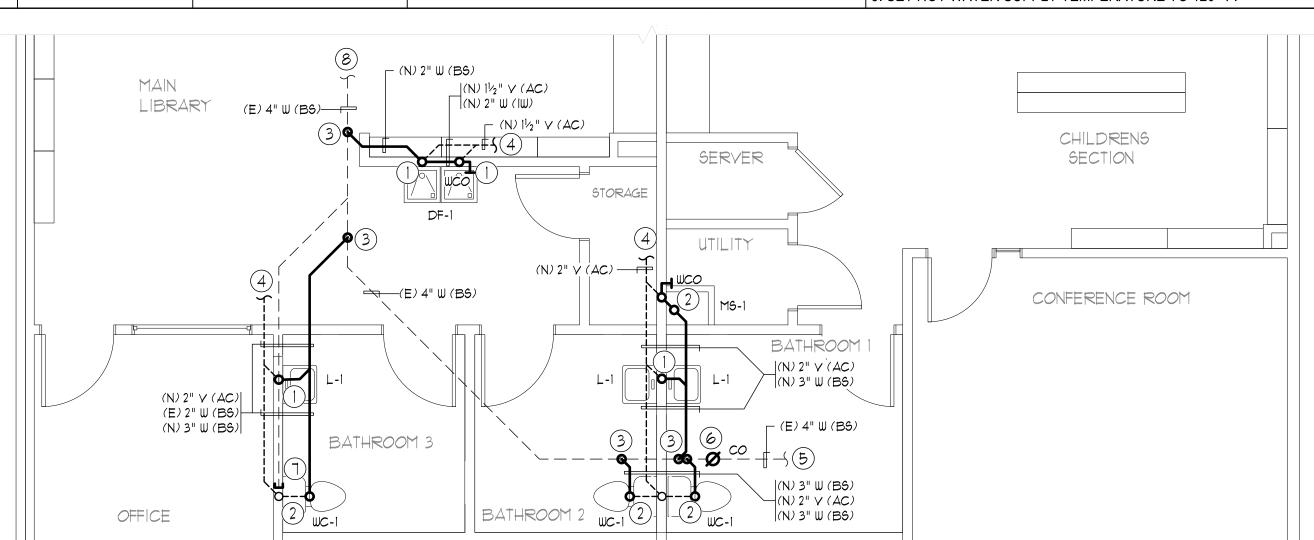
PLUMBING EQUIPMENT SCHEDULE

| SYMBOL | DESCRIPTION | MFGR. & MODEL No. | SPECIFICATIONS | ACCESSORIES |
|--------|------------------------------------|-------------------|--|--|
| WH-1 | 20 GALLON ELECTRIC WATER HEATER | | COMPACT 20 GALLON WATER HEATER, EF - N/A RECOVERY - 21 GPH at 90° RISE 240 V, 4500 WATT, 18"Ø, 24.5" HIGH, OP. WT. = 224 # | 1. PROVIDE 22 GAUGE DRAIN PAN BELOW WATER HEATER LOCATED ON SHELF ABOVE MOP SINK 2. TERMINATE T&P TO MOP SINK WITH DOWNWARD ELBOW 3. SET HOT WATER SUPPLY TEMPERATURE TO 120° F. |



PLUMBING FLOOR PLAN - WATER

WATER KEYED NOTES (N) 1/2" HW & CW DROPS 2. (N) 1/2" CW DROP 3. (N) 3/4" CW DROP & HW RISER FROM WH-1, WITH TRANSITION TO 1/2" HW & CW DROPS TO MS FAUCET 4. CONNECT (N) $\frac{3}{4}$ " CW TO (E) CW SUPPLY PIPE (AC)



PLUMBING FLOOR PLAN - W&V

SCALE: 1/4" = 1'-0"

WAY KEYED NOTES (N) 2" WD $41\frac{1}{2}$ " VR

(N) 3" WD # 2" VR CONNECT (N) WASTE PIPE TO (E) 4" W (BS) . CONNECT (N) Y (AC) TO (E) YTR VERIFY LOCATION OF (E) UPPER TERMINATION AND CLEAN OUT, PROVIDE (N) UPPER TERMINATION CLEAN OUT IF REQUIRED

. PROVIDE (N) FLOOR CLEAN OUT REMOVE & CAP (E) PLUMBING PIPES AT REMOVED FIXTURES 8. (E)4"W(BS),SEE SITE UTILITY PLAN FOR

Scale

Number

C:\Users\David\Documents\Autodesk\My Projects\Melas\Bear River Library\Sheets\x22-016-P1.1 Plumbing Plans.dwg, 04/21/22 05:03:13pm

SCALE: 1/4" = 1'-0"

ENERGY & MECHANICAL CONSULTANTS 541 UREN STREET NEVADA CITY, CA 95959 PHONE (530) 265-2492 FAX (53Ø) 265-2273 xp. 9/30/22

MELAS

0 AND 108 SUITES

RIVER A COUNTY

PLUMBING

10988 COMBIE I AUBURN, CA 95

Revisions:

By: Description: 1 | 4-21-22 | DD | PLAN CHECK

4/21/2022

Plot Date: 22-016 Job#

as noted

2-3-2022

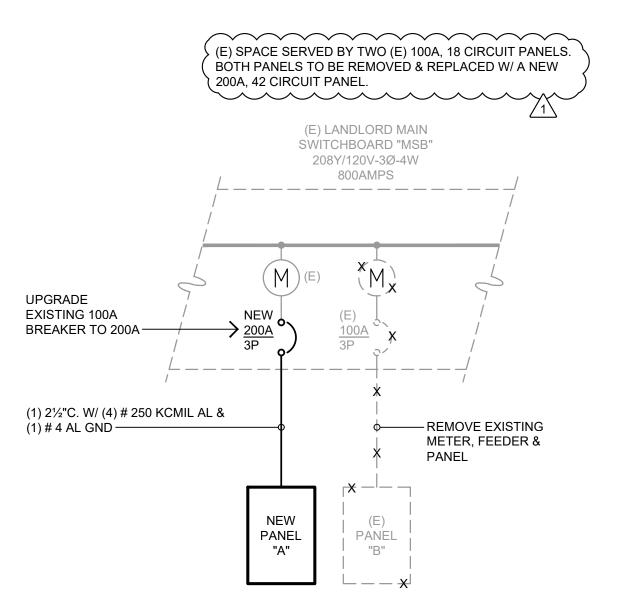
REVIEWED FOR CODE COMPLIANCE Jul 06, 2022 INTERWEST CONSULTING GROUP

| ■ NEW □ EXISTING | | | | | 11 / | Δ" | | | AIC: | | TO MATCH EXIS | TING |
|-----------------------------------|-----------|-----------|-------|--|------|----------|----------------|-----------|-----------|----------|------------------------------|----------|
| VOLTAGE: | 208Y/120V | ′-3Ø-4W | | | F | 7 | | | MAIN: | | | MLC |
| BUS: | | 225A | MOUNT | ING: | | | SL | JRFACE | LOCATI | ON: | UT | ILITY |
| LOAD DESCRIPTION | | DLT-AMPER | | СВ | _ | us | СВ | | OLT-AMPER | | LOAD DESCRIPTION | ¥: |
| | ØA | ØΒ | øС | 15 | A | ВС | 丁 p 20 1 | ØA 700 | øΒ | øС | MAIN ADEA LIQUEING | |
| 1 HEAT PUMP "HP-1" | 1,144 | 4 4 4 4 | | 15/ | | П | 20 | 760 | 400 | | MAIN AREA LIGHTING | 2 |
| 3 🗸 | | 1,144 | | / 2 | | M | I/ 1I | | 429 | | CORE AREA / SHERIFF LIGHTING | 4 |
| 5 (E) MINI-SPLIT "HP-2" / "FC-2" | | | 2,004 | 25/ | 🕇 | \vdash | 20 1 | | | 1,000 | | 6 |
| 7 | 2,004 | | | | 🕇 | \vdash | 20 1 | 1,360 | | | CHILDRENS AREA RECEPTACLES | 8 |
| 9 \ | | 2,004 | | / 3 | 🕂 | + | 20 1 | | 1,080 | | MAIN LIBRARY RECEPTACLES | 10 |
| 11 (E) MINI-SPLIT "HP-3" / "FC-3" | | | 2,004 | 25 / | 1 | ++ | 20 1 | | | 700 | REAR OFFICE RECEPTACLES | 12 |
| 13 | 2,004 | | | | + | ++ | 20 1 | 900 | | | CONFERENCE ROOM RECEPTS | 14 |
| 15 🗸 | | 2,004 | | / 3 | ┨┽┷ | ┿┼ | 20 1 | | 700 | | RESTROOM & UTILITY GFCI RECS | 10 |
| 17 SPACE | | | | | 1+- | ++ | 20 1 | | | 1,260 | MAIN LIBRARY RECEPTACLES | 18 |
| 19 SPACE | | | | | 1+- | ₩ | 20 1 | 360 | | | TELEPHONE BOARD | 20 |
| 21 WATER HEATER | | 2,250 | | 30/ | 14- | ₩ | 20 1 | | 360 | | SERVER ROOM RECEPTACLE | 2: |
| 23 🗸 | | , | 2,250 | / 2 | 14 | ₩ | 20 1 | | | 240 | DRINKING FOUNTAIN | 2: |
| 25 SPACE | | | , | ľ | ا∔ــ | \sqcup | 20 1 | | | | SPARE | 2 |
| 27 SPACE | | | | | 144 | ₩ | 20 1 | | | | SPARE | 15 |
| 29 SPACE | | | | | 14 | ₩ | 20 1 | | | | SPARE | 28 30 |
| 31 SPACE | | | | | 14 | ш | - " | | | | SPACE | 32 |
| 33 SPACE | | | | | 11 | \sqcup | | | | | SPACE | 13 |
| 35 SPACE | | | | | سلاا | Ц | | | | | SPACE | 30 |
| 37 SPACE | | | | | 1 | Ш | | | | | SPACE | 3 |
| 39 SPACE | | | | | ١L | Ш | | | | | SPACE | 4 |
| 41 SPACE | | | | \vdash | | П | | | | | SPACE | 4: |
| 41 SPACE | | | | | | т | | | | | SPACE | 44 |
| SUBTOTAL | 5,152 | 7,402 | 6,258 | | | | | 3,380 | 2,569 | 3,200 | SUBTOTAL | |
| TOTAL VOLT-AMPERES/PHASE: | Ø | A = 8,532 | 2 | | Q | ØВ = | 9,97 | 1 | | ØC = 9,4 | 58 | |
| TOTAL DESIGN VOLT-AMPERES: 27, | 061 | | | | | | | | | AMPS = | 70 | |

, E.C. TO VERIFY (E) AIC AT "MSB." $\,$ PANEL 'A' SHALL BE EQUAL TO OR GREATER THAN "MSB" AIC.)

LOAD & FEEDER CALCS (N) PANEL 'A' LIGHTING - 2,654 SF @ 2 W/SF 5,308 W 1,200 W SIGNAGE 2,288 W MINI-SPLIT "HP-1" / "FC-1" (E) MINI-SPLIT "HP-2" / "FC-2" 6,012 W (E) MINI-SPLIT "HP-3" / "FC-3" 6,012 W DRINKING FOUNTAIN 240 W 4,500 W WATER HEATER "WH-1" EXHAUST FANS 58 W 7,380 W 32,998 W RECEPTACLES - 41 @ 180 W EACH 25% CONTINUOUS LOAD 1,627 W 1.503 W 25% LARGEST MOTOR 36,128 W DEMAND AMPS @ 208Y/120V-3Ø-4W 100 A

A 200A FEEDER IS ADEQUATE.



(E) ONE-LINE DIAGRAM

SCALE: NONE

NOTE TO CONTRACTOR

THE CONTRACTOR SHALL THOROUGHLY REVIEW THESE ELECTRICAL CONSTRUCTION DOCUMENTS PRIOR TO PREPARING A BID FOR THE ELECTRICAL WORK SHOWN. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING ELECTRICAL SERVICES AND CONNECTION REQUIREMENTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY CONFLICTS OR DISCREPANCIES FOUND PRIOR TO BID. BY SUBMITTING A BID FOR THE ELECTRICAL WORK, THE ELECTRICAL CONTRACTOR IS AFFIRMING THAT THE REQUIRED FIELD VERIFICATION OF EXISTING CONDITIONS HAS BEEN COMPLETED AND ASSUMES FULL RESPONSIBILITY FOR CONFLICTS FOUND AFTER THE AWARD OF THE ELECTRICAL CONTRACT. NO ADDITIONAL COMPENSATION WILL BE CONSIDERED FOR CONFLICTS AND/OR DISCREPANCIES FOUND TO EXIST AFTER THE AWARD OF THE ELECTRICAL CONTRACT.

SYMBOL LIST

RECESSED LIGHT FIXTURE

SURFACE MOUNTED LIGHT FIXTURE

⊢O→ STRIPLIGHT

☐ RECESSED FIXTURE

O SURFACE MOUNTED LIGHT FIXTURE

OH WALL MOUNTED LIGHT FIXTURE

⊗ EXIT LIGHT - CEILING MOUNTED WITH ARROWS AS SHOWN

EMERGENCY LIGHTING FIXTURE - SURFACE MOUNTED

\$ SINGLE POLE TOGGLE SWITCH, @ +44" UNO

\$2 TWO POLE TOGGLE SWITCH, @ +44" UNO

\$3 THREE-WAY TOGGLE SWITCH, @ +44" UNO

\$D DIMMER SWITCH, @ +44" UNO

\$K KEY OPERATED SINGLE POLE TOGGLE SWITCH, @ +44" UNO

 $\langle x \rangle$ FIXTURE TAG; LETTER INDICATES TYPE,

JUNCTION BOX, SIZE & TYPE AS INDICATED OR AS REQUIRED

DEDICATED, 15 AMP 125V 3W NEMA 5-15R DUPLEX RECEPTACLE, @ +18" UNO

15 AMP 125V 3W NEMA 5-15R DOUBLE DUPLEX RECEPTACLE, @ +18" UNO

\$M MOTOR RATED SINGLE POLE SWITCH, @ UNIT UNO

□ NON-FUSED DISCONNECT SWITCH

CIRCUIT BREAKER DISCONNECT SWITCH

FY FUSED DISCONNECT SWITCH, SIZE PER UNIT LABEL

MOTOR, N.I.E.S. CONNECT AS REQUIRED, NUMBER INDICATES HP

□ CONTROL EQUIPMENT, N.I.E.S. CONNECT AS REQUIRED

PANELBOARD - SEE SCHEDULE

MAIN SWITCHBOARD OR MOTOR CONTROL CENTER, SEE ONE LINE DIAGRAM

▼ TELEPHONE OUTLET, 4" SQ. BOX w/ SINGLE DEVICE RING & PLATE @ +18" UNO

 ∇ DATA OUTLET, 4" SQ. BOX w/ SINGLE DEVICE RING & PLATE @ +18" UNO

▼ COMBINATION PHONE/DATA OUTLET, 4" SQ. BOX w/ SINGLE DEVICE RING & PLATE @ +18" UNO

† ⊕ TELEPHONE TERMINAL BACKBOARD; 4' x 8' x 3/4" PLYWOOD OR AS NOTED w/ DOUBLE DUPLEX RECEPTACLE & 1 #6 GND

---- CONDUIT RUN CONCEALED BELOW FLOOR OR FINISHED GRADE

— CONDUIT CONCEALED IN CEILING OR WALL

HOMERUN TO RESPECTIVE PANEL OR TERMINAL CABINET

---- CONDUIT RISER - UP

CONDUIT RISER - DOWN

BRANCH CIRCUIT WITHOUT FURTHER DESIGNATION INDICATES A 2 #12 WIRE CIRCUIT ADDITIONAL NO. OF #12; \longrightarrow , 3 #12; \longrightarrow , 2 #12 & SIZES; $\frac{1}{10}$, 2 #10 & 1 #12 GND; $\frac{1}{10}$, 3 #4 & 1 #8 GND;

MT EMPTY CONDUIT WITH PULLSTRING

EL EMERGENCY LIGHT

NL NIGHT LIGHT

(E) EXISTING

C. CONDUIT

WP WEATHERPROOF

SMOKE DETECTOR

FACP FIRE ALARM CONTROL PANEL

NIES NOT IN ELECTRICAL SECTION OF THESE PLANS & SPECIFICATIONS

UNO UNLESS NOTED OTHERWISE

1) FLAG NOTE SHOWN ON SAME SHEET

A SECTION DESIGNATION; TOP LETTER INDICATES SECTION, BOTTOM LETTER/NUMBER INDICATES SHEET

DETAIL DESIGNATION; TOP NUMBER INDICATES DETAIL,

BOTTOM LETTER/NUMBER INDICATES SHEET

MECHANICAL & PLUMBING EQUIPMENT DESIGNATION

① LINE VOLTAGE THERMOSTAT, NIES, INSTALL & CONNECT AS REQUIRED SPECIAL OUTLET. SEE PLANS FOR SPECIFICATION

JOB SET E1.0
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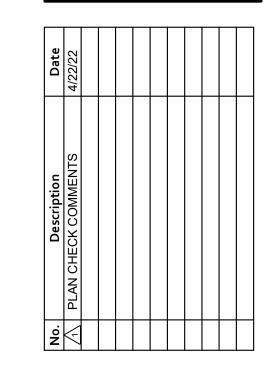
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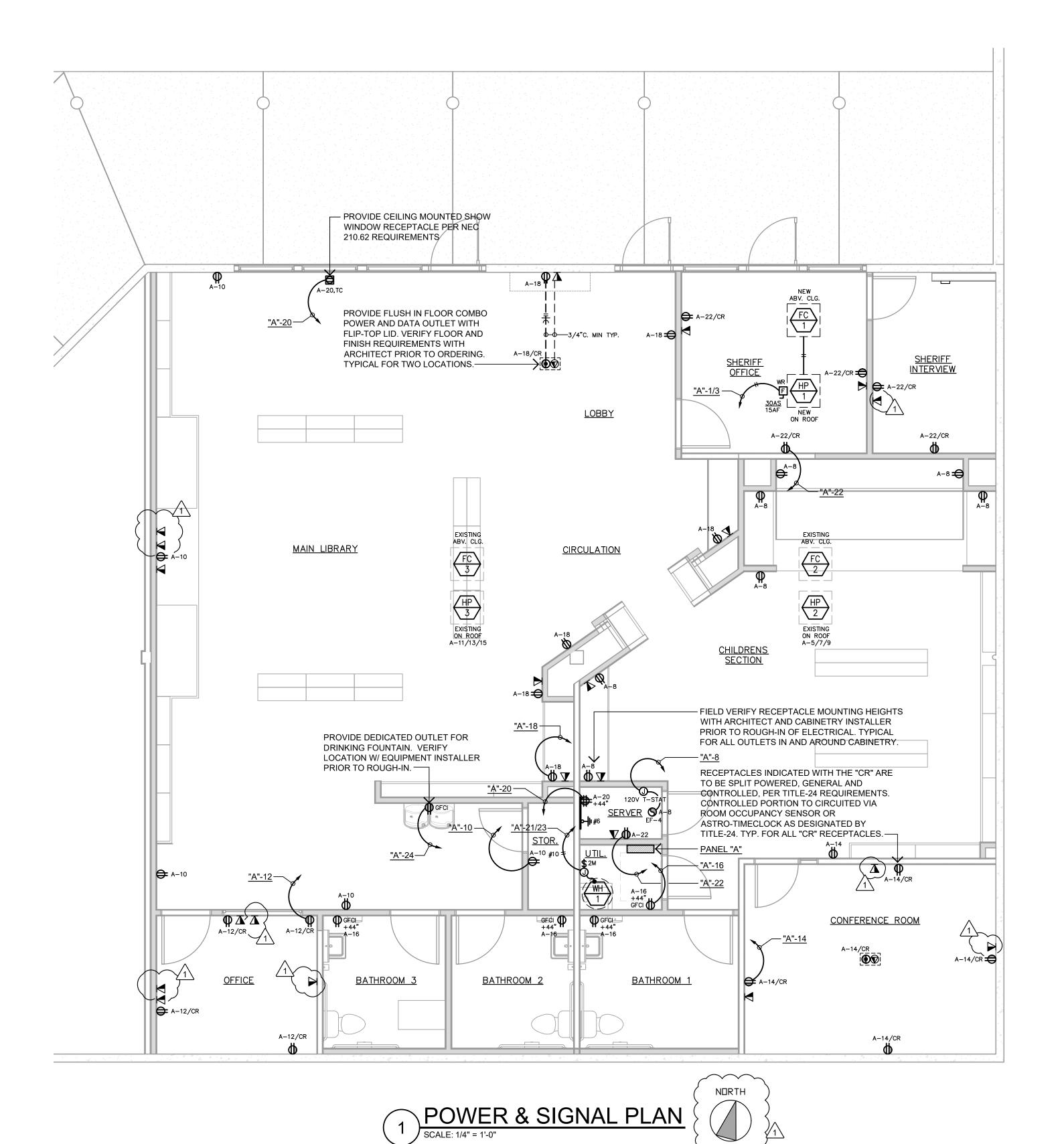
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21082 02.11.2022

Drawn By:

Drawing Title: LOAD CALCS & ONE-LINE & NOTES



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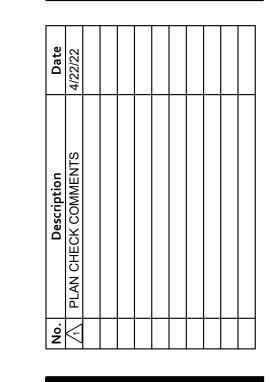
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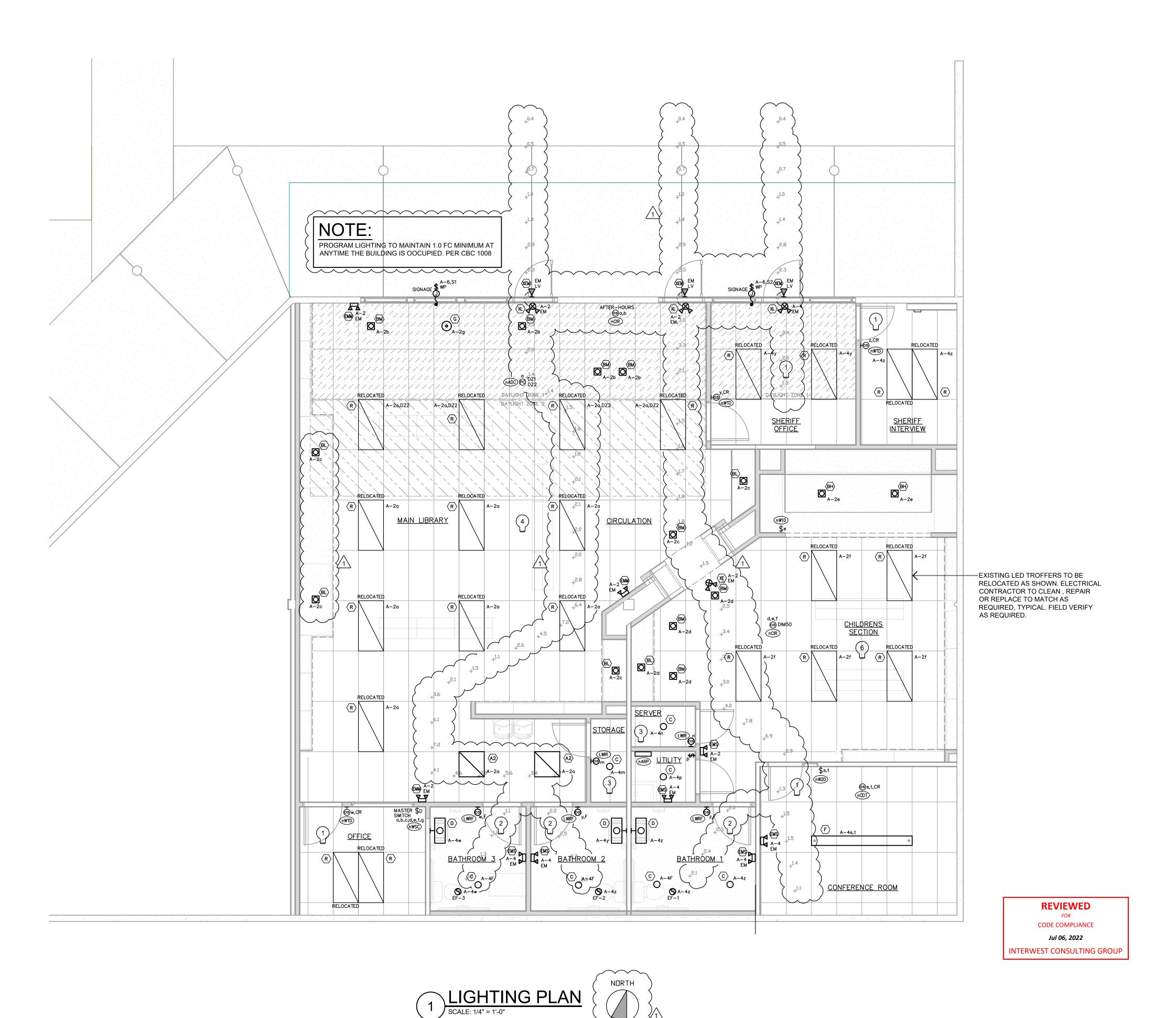
Drawing Title: POWER & SIGNAL PLAN

JOB SET E2.0

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FOR

Jul 06, 2022 INTERWEST CONSULTING GROUP





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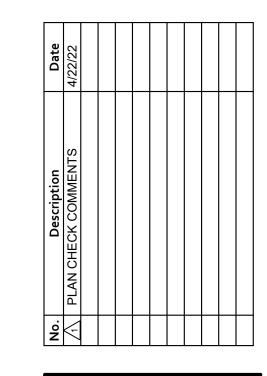
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| Proj. No.: | 21082 |
|------------|------------|
| Date: | 02.11.2022 |

Drawing Title:

LIGHTING PLAN

Drawing Number:

E3.0

| | AMENIT | Y BUILDING 'G' LI | GH | ITING FIXT | URI | E SCI | HEDU | LE |
|-------------------------|--|--|-----|---------------|-----|-----------------------------|---------------------------|---|
| TAG | DESCRIPTION | MANUFACTURER | V | LAMPS | W | DIMMING | MOUNTING | REMARKS |
| $\langle A2 \rangle$ | 2FT x 2FT LAY-IN LED TROFFER TO MATCH EXISTING | JAMES ZY T4 25W XDZ 4000K | 120 | LED +80CRI | 25W | 0-10V | LAY-IN | |
| (BL) | 4" DIA. RECESSED LED DOWNLIGHT WITH CLEAR LSS REFLECTOR, LOW SETTING | LITHONIA LBR4 AL01 40K MWD MVOLT UGZ w/ LBR4PFWCP (MOUNTING FRAME) | 120 | LED +80CRI | 6W | 0-10V | RECESSED IN CEILING | |
| (BM) | 4" DIA. RECESSED LED DOWNLIGHT WITH CLEAR LSS REFLECTOR, MEDIUM SETTING | LITHONIA LBR4 AL01 40K MWD MVOLT UGZ w/ LBR4PFWCP (MOUNTING FRAME) | 120 | LED +80CRI | 9W | 0-10V | RECESSED IN CEILING | |
| (BH) | 4" DIA. RECESSED LED DOWNLIGHT WITH CLEAR LSS REFLECTOR, HIGH SETTING | LITHONIA LBR4 AL01 40K MWD MVOLT UGZ w/ LBR4PFWCP (MOUNTING FRAME) | 120 | LED +80CRI | 13W | 0-10V | RECESSED IN CEILING | |
| $\langle c \rangle$ | 5" DIA. SURFACE MOUNTED DOWNLIGHT | JUNO JSBC 5 40K 90CRI WH CP4M4 | 120 | LED +90CRI | 11W | PHASE CONTROL DIMMING | CEILING | |
| D | 26" DECORATIVE WALL MOUNTED VANITY LIGHT LIGHT | TLI / KICHLER 8300K 11146NILED | 120 | LED +90CRI | 20W | PHASE CONTROL DIMMING | WALL | |
| (EMM) | ADJ. TWIN HEAD EMERGENCY LIGHT WITH 90 MIN. BATTERY BACK-UP; MEDIUM | LITHONIA ELM4L | 120 | LED | 1 | N/A | WALL | PROVIDE UNSWITCHED CIRCUIT PER NEC REQUIREMENTS |
| (EMS) | ADJ. TWIN HEAD EMERGENCY LIGHT WITH 90 MIN. BATTERY BACK-UP; SMALL | LITHONIA ELM2L | 120 | LED | 1 | N/A | WALL | PROVIDE UNSWITCHED CIRCUIT PER NEC REQUIREMENTS |
| F | 8FT. INDIRECT / DIRECT PENDANT LIGHT | STARTEK SLIMD1 8FT 325LPF 1000LPF WD BW 40K 80 (SCBA) ACW10 DD DT1 | 120 | LED +80CRI | 88W | (2) 0-10V | AIRCRAFT CABLE | |
| G | DECORATIVE PENDANT LIGHT | TECH LIGHTING - REVEL PENDANT 700 MP S LEDS930 | 120 | LED +80CRI | 6W | MLV OR ELV | CEILING PENDANT | |
| $\overline{\mathbb{R}}$ | EXISTING 2FT x 4FT TROFFER TO BE RELOCATED. | EXISTING | 120 | LED +80CRI | 36W | 0-10V | LAY-IN | |
| XE | COMBINATION EXIT SIGN & EMERGENCY LIGHT w/ 90 MIN. BATTERY BACK-UP | LITHONIA LHQM LED G SD | 120 | LED | 4 | N/A | WALL OR CEILING | PROVIDE UNSWITCHED CIRCUIT PER NEC REQUIREMENTS |
| XL | COMBINATION EXIT SIGN & EMERGENCY LIGHT w/ HIGH OUTPUT 90 MIN. BATTERY BACK-UP | LITHONIA LHQM LED G HO SD | 120 | LED | 4 | N/A | WALL OR CEILING | PROVIDE UNSWITCHED CIRCUIT PER NEC REQUIREMENTS |
| (XEM) | REMOTE EXTERIOR WEATHERPROOF AIMABLE EGRESS LIGHT | LITHONIA ELA QWP LO309 SD | 6 | LED | 1.5 | N/A | WALL OR CEILING | PROVIDE LOW VOLTAGE CONNECTION TO NEAREST EXIT SIGN |

LIGHT FIXTURE AND CONTROL NOTES:

- 1. SUBSTITUTIONS AND/OR EQUAL FIXTURES MUST RECEIVE APPROVAL PRIOR TO BIDDING, THEY MUST BE SUBMITTED TO THE ENGINEER & LIGHTING DESIGNER NO LESS THAN ONE (1) WEEK PRIOR TO BID OPENING. ANYTHING SUBMITTED AFTER THIS TIME FRAME WILL NOT BE REVIEWED AND WILL BE CONSIDERED NON-APPROVED FOR BIDDING PURPOSES. ALL LIABILITY ASSOCIATED WITH NON-APPROVED FIXTURES THAT DO NOT MEET THE PROJECT REQUIREMENTS AS DETERMINED BY THE ENGINEERING TEAM, LIGHTING DESIGNER AND THE OWNER WIL REST SOLEY WITH THE CONTRACTOR.
- 2 ALL SUBSTITUTIONS AND/OR EQUAL FIXTURES SHALL BE ACCOMPANIED WITH THE APPROPRIATE IES FILE, SPECIFICATION SHEET, LM-79 REPORT & WARRANTY INFORMATION. ADDITIONAL INFORMATION ABOUT THE MANUFACTURER ITSELF AND FIXTURE COMPONENTS MAY BE REQUESTED.
- 3 ALL FIXTURES SHALL BE LISTED AND APPROVED FOR THEIR INTENDED USE.
- 4. VERIFY THE PROPER MOUNTING KITS AND OR ACCESSORIES TO FACILITATE PROPER INSTALLATION OF LUMINAIRES IS PROVIDED FOR AS SHOWN AT EACH LOCATION ON THE DRAWINGS.
- 5. SAMPLES FOR TABLE TOP EVALUATION MUST BE PROVIDED FOR ANY AND ALL FIXTURES UPON REQUEST.
- 6. ALL LIGHTING VALUE ENGINEERING PROVIDED FOR THIS PROJECT SHALL BE SUBMITTED TO THE ELECTRICAL ENGINEER & LIGHTING DESIGNER FOR REVIEW AND APPROVAL AFTER THE PROJECT HAS BEEN BID AND AWARDED. ANY CREDITS FOR VE SHALL INCLUDE TIME TO COMPENSATE OUR OFFICES FOR ENGINEERING REVIEW AND VERIFICATION OF BRANCH CIRCUIT LOADING, ENERGY CODE COMPLIANCE AND/OR PHOTOMETRIC REVIEW. NO VE SUBMITTALS WILL BE APPROVED WITHOUT THIS PROCESS IN PLACE.
- 7. CONTRACTOR TO VERIFY TYPES/QUANTITY/PLACEMENT OF SENSORS WITH MANUFACTURER AND MANUFACTURER REPRESENTATIVE TO ENSURE BEST COVERAGE AND EFFECTIVITY FOR THE ENCLOSED SPACE.
- 8. CONTRACTOR SHALL INCLUDE FACTORY START-UP/PROGRAMMING AND END USER TRAINING.
- ^{10.} ALL NORMAL AND EMERGENCY LIGHTING SHALL OPERATE AT THE SAME LEVEL WHEN CONTROLLED VIA WALL SWITCH OR PHOTOCELL. DURING AN EMERGENCY. ALL EMERGENCY LIGHTS SHALL TURN FULL ON FOR NO LESS THAN 90 MINUTES.

EXTERIOR NIGHT LIGHTS ("NL") SHALL OPERATE FORM 30 MINS. AFTER SUNSET TILL 30 MINUTES BEFORE SUNRISE THE NEXT DAY.

| EMERGENCY LIGHTING STAT | ISTICS | П | ı | | 1 | 1 |
|-------------------------|--------|--------|--------|--------|---------|---------|
| Description | Symbol | Avg | Max | Min | Max/Min | Avg/Mir |
| BATH 1 EGRESS | + | 2.2 fc | 2.4 fc | 2.0 fc | 1.2:1 | 1.1:1 |
| BATH 2 EGRESS | + | 2.4 fc | 2.7 fc | 2.2 fc | 1.2:1 | 1.1:1 |
| BATH 3 EGRESS | + | 1.2 fc | 1.3 fc | 1.0 fc | 1.3:1 | 1.2:1 |
| CONFERENCE RM. EGRESS | + | 1.4 fc | 1.5 fc | 1.1 fc | 1.4:1 | 1.3:1 |
| CENTER EXTERIOR EGRESS | + | 1.2 fc | 2.9 fc | 0.4 fc | 7.3:1 | 3.0:1 |
| LEFT EGRESS | + | 3.3 fc | 7.2 fc | 1.1 fc | 6.5:1 | 3.0:1 |
| LEFT EXTERIOR EGRESS | + | 1.1 fc | 2.9 fc | 0.4 fc | 9.7:1 | 3.7:1 |
| RIGHT EGRESS | + | 2.9 fc | 7.8 fc | 1.2 fc | 6.5:1 | 2.4:1 |
| RIGHT EXTERIOR EGRESS | + | 1.2 fc | 2.8 fc | 0.4 fc | 7.0:1 | 3.0:1 |
| SHERIFF OFFICE EGRESS | + | 2.2 fc | 3.0 fc | 1.3 fc | 2.3:1 | 1.7:1 |

REVIEWED

FOR

CODE COMPLIANCE

Jul 06, 2022

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| | LINE \ | OLTAGE LIGHT | ING CONTROL SCHE | DULE |
|--------|---|---|--|---------|
| TAG | DESCRIPTION | MANUFACTURER | OPERATION | REMARKS |
| LWIR | WALL MOUNTED SINGLE POLE SWITCH w/ LINE VOLTAGE INFRARED OCCUPANCY SENSOR | SENSOR SWITCH # WSXA WH | AUTO-ON / VACANCY OFF | |
| (LWRF) | WALL MOUNTED DUAL-POLE SWITCH w/ INFRARED OCC. SENSOR | SENSOR SWITCH # WSXA 2P FAN ASHRT WH | AUTO-ON / VACANCY OFF | |
| (WTD) | WALL MOUNTED SINGLE POLE SWITCH w/ DUAL TECH OCC. SENSOR & 0-10V DIMMING | SENSOR SWITCH # WSXA PDT D WH | MANUAL-ON / VACANCY OFF w/ 0-10V DIMMING CONTROL | |

| | LOW VC | LTAGE LIGHTIN | IG CONTROL SCHED | JLE |
|--------|---|---|--|--|
| TAG | DESCRIPTION | MANUFACTURER | OPERATION | REMARKS |
| nW1D | nLIGHT SINGLE POLE DIMMING WALL SWITCH, DECORA | ACUITY BRANDS CONTROLS - nLIGHT nPODMA DX WH | MANUAL ON / OFF & DIMMING | PROVIDE ALL CAT 5 CONNECTIONS AND PROGRAMMING |
| nW2D | nLIGHT DUAL POLE DIMMING WALL SWITCH, DECORA | ACUITY BRANDS CONTROLS - nLIGHT nPODMA 2P DX WH | MANUAL ON / OFF & DIMMING | PROVIDE ALL CAT 5 CONNECTIONS AND PROGRAMMING |
| (nWTD) | nLIGHT SINGLE POLE DIMMING WALL SWITCH w/ INTEGRAL DUAL TECH OCCUPANCY SENSOR | ACUITY BRANDS CONTROLS - nLIGHT nWSX PDT LV DX WH | AUTO ON TO 50% / AUTO-OFF & DIMMING; AUTO-ON / AUTO-OFF OF CONTROLLED RECEPTACLES "CR" | PROVIDE ALL CAT 5 CONNECTIONS AND PROGRAMMING |
| nCIR | nLIGHT CEILING MOUNTED INFRARED OCCUPANCY SENSOR | ACUITY BRANDS CONTROLS - nLIGHT nCM 9 RJB | DETERMINES OCCUPANCY AND VACANCY OF A ROOM OR AREA | PROVIDE ALL CAT 5 CONNECTIONS AND PROGRAMMING |
| (CDT) | nLIGHT CEILING MOUNTED DUAL-TECH OCCUPANCY SENSOR | ACUITY BRANDS CONTROLS - nLIGHT nCM PDT 9 RJB | DETERMINES OCCUPANCY AND VACANCY OF A ROOM OR AREA | PROVIDE ALL CAT 5 CONNECTIONS AND PROGRAMMING |
| (nADC) | nLIGHT RECESSED MOUNTED AUTO-DIMMING DUAL-ZONE PHOTOCELL | ABC - nLIGHT nRM ADCX DZ | PROVIDES FOR DUAL-ZONE DAYLIGHT HARVESTING | PROVIDE ALL CAT 5 CONNECTIONS AND PROGRAMMING |
| (WSC) | nLIGHT WALL MOUNTED SCENE CONTOLLER | ABC - nLIGHT nPODMA 4S DX | PROVIDES FOR ON/OFF & DIMMING CONTROL FOUR UP TO (4) PROGRAMMED SCENES | PROVIDE ALL CAT 5 CONNECTIONS AND PROGRAMMING |
| (nARP) | nLIGHT RELAY PANEL WITH ASTRO DIGITAL TIMECLOCK | ABC - nLIGHT ARP (SIZED AS REQ'D) w/ DTC | PROVIDES FOR SYSTEM INTERFACE AND TIMECLOCK FUNCTIONS OF LIGHTING CONTROL | PROVIDE ALL 120V & CAT 5 CONNECTIONS AND PROGRAMMING |

COMMUNITY BUILDING LIGHTING CONTROL NOTES: THE CONTROL BASIS OF DESIGN IS ACUITY BRANDS NLIGHT DIGITAL CONTROLS. OTHER CONTROL SYSTEMS MAY SEEK APPROVAL. ELECTRICAL CONTRACTOR AND APPROVED CONTROL MANUFACTURER TO THOROUGHLY REVIEW THE ELECTRICAL PLANS AND PROVIDE THE REQUIRED DEVICE QUANTITIES AND DESIGN FOR A COMPLETE CURRENT TITLE-24 COMPLIANT SYSTEM, INCLUDING ALL REQUIRED PROGRAMMING. 130.1 (a) AREA LIGHTING CONTROL YES; WALL SWITCH □ N/A 130.1 (b) MULTI-LEVEL LIGHTING CONTROL ■ YES; WALL DIMMER □ N/A ☐ EXCEPTION: 130.1.(c) AUTOMATIC SHUT-OFF CONTROL ■ YES; OCC. SENSOR ☐ EXCEPTION: □ N/A □ N/A ■ EXCEPTION: <120WATTS IN ZONE</p> 130.1 (d) AUTOMATIC DAYLIGHT CONTROL ☐ YES; 130.1 (e) DEMAND RESPONSE CONTROL ☐ YES; □ N/A ■ EXCEPTION: <10,000 SF @ >0.5W/SF 130.5 (d) CONTROLLED RECEPTACLES ■ YES; OCC. SENSOR □ N/A □ EXCEPTION: SEQUENCE OF OPERATION: (LOW VOLTAGE CONTROLS, NETWORKED TO LIGHTING CONTROL PANEL) PROGRAM GENERAL AREA LIGHTING FOR AUTO-ON TO 50%, MANUAL PUSH FOR 100%; CONTROLLED RECEPTACLES AUTO-ON / OFF VIA SENSOR ONLY LIGHTING AND CONTROLLED RECEPTACLES TO VACANCY OFF AFTER 20 MINUTES. SINGLE STALL RESTROOM 130.1 (a) AREA LIGHTING CONTROL □ N/A □ EXCEPTION: 130.1 (b) MULTI-LEVEL LIGHTING CONTROL ☐ YES; ☐ N/A ■ EXCEPTION: < 0.5W/S.F. 130.1.(c) AUTOMATIC SHUT-OFF CONTROL ■ YES; OCC. SENSOR ☐ EXCEPTION: □ N/A 130.1 (d) AUTOMATIC DAYLIGHT CONTROL ☐ YES; ■ N/A ☐ EXCEPTION: 130.1 (e) DEMAND RESPONSE CONTROL ☐ YES; □ N/A ■ EXCEPTION: <10,000 SF @ >0.5W/SF 130.5 (d) CONTROLLED RECEPTACLES ☐ YES; ■ N/A □ EXCEPTION: SEQUENCE OF OPERATION: (LINE VOLTAGE CONTROL) PROGRAM GENERAL AREA LÌGHTING TO AUTO-ON / AÚTO-OFF VIA OCCUPANCY SENSOR. AUTO VACANCY OFF OF ALL LIGHTING AFTER 20 MINUTES. SMALL ROOM OR CLOSET 130.1 (a) AREA LIGHTING CONTROL □ N/A □ EXCEPTION: YES; WALL SWITCH 130.1 (b) MULTI-LEVEL LIGHTING CONTROL ☐ YES; □ N/A ■ EXCEPTION: < 0.5W/S.F. 130.1.(c) AUTOMATIC SHUT-OFF CONTROL ■ YES; OCC. SENSOR □ N/A □ EXCEPTION: 130.1 (d) AUTOMATIC DAYLIGHT CONTROL ☐ YES; ■ N/A ☐ EXCEPTION: 130.1 (e) DEMAND RESPONSE CONTROL ☐ YES; ☐ N/A ■ EXCEPTION: <10,000 SF @ >0.5W/SF 130.5 (d) CONTROLLED RECEPTACLES ☐ YES; ■ N/A ☐ EXCEPTION: SEQUENCE OF OPERATION: (LINE VOLTAGE CONTROL) AUTO ON / AUTO OFF AFTER 20 MINS. 130.1 (a) AREA LIGHTING CONTROL ■ YES; SCENE CONTROL □ N/A □ EXCEPTION: 130.1 (b) MULTI-LEVEL LIGHTING CONTROL ■ YES; SCENE CONTROL □ N/A □ EXCEPTION: 130.1.(c) AUTOMATIC SHUT-OFF CONTROL ■ YES; ASTRO TIMECLOCK □ N/A □ EXCEPTION: 130.1 (d) AUTOMATIC DAYLIGHT CONTROL ■ YES; PHOTOCELL □ N/A □ EXCEPTION: 130.1 (e) DEMAND RESPONSE CONTROL ☐ YES; □ N/A ■ EXCEPTION: <10,000 SF @ >0.5W/SF 130.5 (d) CONTROLLED RECEPTACLES ☐ YES; ■ N/A ☐ EXCEPTION: SEQUENCE OF OPERATION: (LOW VOLTAGE CONTROLS, NETWORKED TO LIGHTING CONTROL PANEL) PROGRAM AREA LIGHTING TO ACTIVATE DURING BUSINESS HOURS VIA SCENE CONTROL BUTTON PUSH OR ENTRY SENSOR. LIGHTING TO AUTO-OFF VIA TIME-CLOCK 30 MINS. AFTER CLOSING. PROGRAM ALL LIGHTING LEVELS PER OWNER REQUIREMENTS. PROVIDE UP TO FOUR DIFFERENT SCENES. 2-HOUR MAX. AFTER HOUR OVERRIDE VIA OCCUPANCY SENSOR OR BUTTON PUSH. 130.1 (a) AREA LIGHTING CONTROL YES; TOGGLE □ N/A □ EXCEPTION: 130.1 (b) MULTI-LEVEL LIGHTING CONTROL ☐ YES; □ N/A ■ EXCEPTION: SINGLE FIXTURE 130.1.(c) AUTOMATIC SHUT-OFF CONTROL ☐ YES; □ N/A ■ EXCEPTION: ELECTRICAL PANELS 130.1 (d) AUTOMATIC DAYLIGHT CONTROL ☐ YES; ■ N/A ☐ EXCEPTION: 130.1 (e) DEMAND RESPONSE CONTROL ☐ YES; □ N/A ■ EXCEPTION: <10,000 SF @ >0.5W/SF ■ N/A ☐ EXCEPTION: 130.5 (d) CONTROLLED RECEPTACLES ☐ YES; SEQUENCE OF OPERATION: (LINE VOLTAGE CONTROL) TOGGLE SWITCH TO PROVIDE MANUAL ON/OFF CONTROL AS REQUIRED. 130.1 (a) AREA LIGHTING CONTROL ■ YES; SCENE CONTROL □ N/A □ EXCEPTION: 130.1 (b) MULTI-LEVEL LIGHTING CONTROL ■ YES; SCENE CONTROL □ N/A □ EXCEPTION: 130.1.(c) AUTOMATIC SHUT-OFF CONTROL ■ YES; ASTRO TIMECLOCK □ N/A □ EXCEPTION: 130.1 (d) AUTOMATIC DAYLIGHT CONTROL ☐ YES; ■ N/A ☐ EXCEPTION: 130.1 (e) DEMAND RESPONSE CONTROL ☐ YES; □ N/A ■ EXCEPTION: <10,000 SF @ >0.5W/SF 130.5 (d) CONTROLLED RECEPTACLES ☐ YES; ■ N/A ☐ EXCEPTION: SEQUENCE OF OPERATION: (LOW VOLTAGE CONTROLS, NETWORKED TO LIGHTING CONTROL PANEL) PROGRAM AREA LIGHTING TO ACTIVATE DURING BUSINESS HOURS VIA SCENE CONTROL BUTTON PUSH OR ENTRY SENSOR. LIGHTING TO AUTO-OFF VIA TIME-CLOCK 30 MINS. AFTER CLOSING. CHILDRENS AREA LIGHTING TO DIM 50% WHEN UNOCCUPIED MORE THAN 15 MINS. PROGRAM ALL LIGHTING LEVELS PER OWNER REQUIREMENTS. PROVIDE UP TO FOUR DIFFERENT SCENES. 2-HOUR MAX. AFTER HOUR OVERRIDE VIA OCCUPANCY SENSOR OR BUTTON PUSH.



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| Description | PLAN CHECK COMMENTS | | | | | |
| Š | E | | | | | |

| Proj. No.: | 21082 |
|------------|------------|
| Date: | 02.11.2022 |
| Scale: | |
| Drawn By: | JL/JP |
| | |

Drawing Title:

LIGHTING

SCHEDULES

Drawing Num

E3.1

| STATE OF CALIFORNIA | | STATE OF CALIFORNIA | | STATE OF CALIFORNIA | |
|---|--|---|--|--|---|
| Indoor Lighting NRCC-LTI-E | CALIFORNIA ENERGY COMMISSION | Indoor Lighting NRCC-LTI-E | CALIFORNIA ENERGY COMMISSI | Indoor Lighting NN NRCC-LTI-E | CALIFORNIA ENERGY COMMISSIO |
| CERTIFICATE OF COMPLIANCE This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), § | NRCC-LTI-E §130.0, §130.1, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive | CERTIFICATE OF COMPLIANCE Project Name: Bear Valley Library Re | NRCC-L1 eport Page: (Page 2 o | | Bear Valley Library Report Page: (Page 3 of 3 |
| path. Project Name: Bear Valley Library | | Project Address: 10988 Combie Rd Da | | | 10988 Combie Rd Date Prepared: 4/25/202 |
| Project Address: 10988 Combie Rd | | C. COMPLIANCE RESULTS | | F. INDOOR LIGHTING FIXTURE SCHEDULE | |
| A. GENERAL INFORMATION | | If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" re | | BL 6w LED No No | 6 Mfr. Spec 5 No 30 🗆 |
| 01 Project Location (city) Auburn 02 Climate Zone 11 | 04 Total Conditioned Floor Area (ft²) 2,666 05 Total Unconditioned Floor Area (ft²) 0 | Allowed Lighting Power per §140.6(b) (Watts) Lighting in | Adjusted Lighting Power per §140.6(a) (Watts) Compliance Results 06 07 08 09 | BM 9w LED No No C 11w LED No No | 9 Mfr. Spec 8 No 72 |
| 03 Occupancy Types Within Project (select all that apply): | 06 # of Stories (Habitable Above Grade) 1 | conditioned and unconditioned and unconditioned Complete Area Category Tailored | Adjustments Total PAF Lighting Total Adjusted | D 20w LED No No F 88w LED No No | 20 Mfr. Spec 3 No 60 □ □ 88 Mfr. Spec 1 No 88 □ □ |
| ☑ Office ☐ Retail ☐ Warehouse ☐ Parking Garage ☐ High-Rise Residential ☐ Relocatable | □ Hotel/Motel □ School ⊠ Support Areas □ Healthcare ⊠ Other (Write in) See Table I | combined for S140.6(c)1 S140.6(c)2 S140.6(c)2 $\frac{$140.6(c)3}{$140.6(c)26} = \frac{10tal}{Allowed}$ | Designed Control Credits = (Watts) | G 6w LED No No | 6 Mfr. Spec 1 No 6 🗆 |
| B. PROJECT SCOPE | | compliance per \$140.6(c)1 \$140.6(c)2 \$140.6(c)2 \$(+) \$(Watts) \$(See Table I) (See Table I) (See Table J) (See Table K) | (-) Adjustments (See Table F) (See Table P) | R 36w LED No No | 36 Mfr. Spec 22 No 792 □ □ Total Designed Watts: CONDITIONED SPACES 1,223 |
| This table includes any lighting systems that are within the scope of the permit application as §141.0(b)2 for alterations. | nd are demonstrating compliance using the prescriptive path outlined in §140.6 or | Conditioned 2,044.6 0 = 2,045 | ≥ 1,223 0 = 1223 COMPLIES | ¹ FOOTNOTE: Design Watts for small aperture and color changing luminain this adjustment, the permit applicant should enter full rated wattage in co | ires which qualify per <u>§140.6(a)4B</u> is adjusted to be 75% of their rated wattage. Table F automatically makes column 05. |
| Scope of Work | Conditioned Spaces Unconditioned Spaces | Unconditioned = | ≥ | ² Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm | m wattage used for compliance per $\S130.0(c)$ Wattage used must be the maximum rated for the luminaire, no |
| 01 My Project Consists of (check all that apply): Calc | 02 03 04 05 rulation Method Area (ft²) Calculation Method Area (ft²) | Rate | ed Power Reduction Compliance (See Table Q for Details) | the lamp. | |
| ☐ New Lighting System | | D. EXCEPTIONAL CONDITIONS | | G. MODULAR LIGHTING SYSTEMS This section does not apply to this project. | |
| □ New Lighting System - Parking Garage ☑ Altered Lighting System Area 0 | Category Method 2666 Area Category Method 0 | This table is auto-filled with uneditable comments because of selections made or data entered in | in tables throughout the form. | H. INDOOR LIGHTING CONTROLS (Not including PAFs) | |
| Total Area of Work (ft²) | 2666 0 | E. ADDITIONAL REMARKS This table includes remarks made by the permit applicant to the Authority Having Jurisdiction. | | | paces. When a control having a * is shown, the notes section of this table provides more detail on how Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank. |
| | | | | Building Level Controls | animary tuble on the just page win show BOLS NOT CONTLET IJ the notes are left blank. |
| | | F. INDOOR LIGHTING FIXTURE SCHEDULE This table includes all permanent designed lighting and all portable lighting in offices. | | 01 | 02 03 Field Inspector |
| | | Designed Wattage: Conditioned Spaces | 06 07 09 00 10 | Mandatory Demand Response §110.12(c) | Shut-off controls §130.1(c) Pass Fail |
| | | Name or Item Complete Luminaire Modular Small Watts per Ho | ow is Wattage Total Number Excluded per Paging Watta | Not Required <= 10,000 SF | See Area/Space Level Controls |
| | | | determined of Luminaires statuted per of Luminai | 1 | |
| | | A2 25w LED No No 25 | Mfr. Spec 2 No 50 □ □ | | |
| Registration Number: Registral | tion Date/Time: Registration Provider: Energysoft | | Mfr. Spec 2 No 26 □ □ Date/Time: Registration Provider: Energysc | t Registration Number: | Registration Date/Time: Registration Provider: Energyso |
| | /ersion: 2019.1.003 Report Generated: 2022-04-25 11:20:34 | | sion: 2019.1.003 Report Generated: 2022-04-25 11:20: | | Report Version: 2019.1.003 Report Generated: 2022-04-25 11:20:3 |
| | Version: rev 20200601 | | rsion: rev 20200601 | 5 | Schema Version: rev 20200601 |
| STATE OF CALIFORNIA | | STATE OF CALIFORNIA | | STATE OF CALIFORNIA | |
| Indoor Lighting NRCC-LTI-E | CALIFORNIA ENERGY COMMISSION | Indoor Lighting NRCC-LTI-E | CALIFORNIA ENERGY COMMISSI | _ | CALIFORNIA ENERGY COMMISSIO |
| CERTIFICATE OF COMPLIANCE Project Name: Bear Valley Library | Report Page: NRCC-LTI-E (Page 4 of 8) | CERTIFICATE OF COMPLIANCE Project Name: Bear Valley Library Re | Pport Page: NRCC-LT | | Bear Valley Library Report Page: (Page 6 of |
| Project Address: 10988 Combie Rd | | Project Address: 10988 Combie Rd Da | | | 10988 Combie Rd Date Prepared: 4/25/20 |
| H. INDOOR LIGHTING CONTROLS (Not including PAFs) | | H. INDOOR LIGHTING CONTROLS (Not including PAFs) | | I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA | A CATEGORY METHODS |
| Area Level Controls 05 06 07 | 00 10 11 12 | Utility Electrical Mechancial Manual Exempt* | Occupancy Sensor N/A N/A No 🗆 🗆 | Computer Room Copy Room | 0.5 20 10 No No none Room 0.4 24 9.6 No No |
| 04 05 06 07 | 08 09 10 11 12 | *NOTES: Controls with a * require a note in the space below explaining how compliance is achie | | Utility Electrical Mechancial Telepho Library Library Reading Area | |
| Area Description Complete Building or Area Area Controls Control Area Control Control | Is Shut-Off Controls III Daylighting Systems Field Inspector | EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general to §130.1(d)2 | Plan Sheet Showing Daylit Zones: | Storage All Other Space Type | Des 0.4 22 8.8 No No TOTALS: 2,666 2,044.6 See Tables J, or P for detail |
| Area \$130.1(a) \$130.1(b) | \$130.1(c) Daylighting \$140.6(d) \$140.6(a)1 Pass Fail | Bathroom 1 Restroom | | J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFY | |
| Bathroom 1 Restrooms Manual Exempt | | Bathroom 2 Restroom | | This section does not apply to this project. | ING EIGHTING STSTEM |
| Rathroom 2 Postrooms Manual Evennt | * Occupancy Sensor N/A N/A No 🗆 | Bathroom 3 Restroom | | K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE | |
| Pathroom 2 Partrooms Manual Evernat | | Server Room Single Fixture | E3.0, E3.1 | This section does not apply to this project. | |
| Convention, Conference. | . Secupancy sensor 14/11 14/11 116 2 2 | | | L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY | |
| Conference Room Multipurpose and Meeting ON/OFF Dimme | er Occupancy Sensor N/A N/A No 🗆 🗆 | Storage Single Fixture | | This section does not apply to this project. | |
| Children's Space Library Reading Area Manual ON/OFF Dimme | er Occupancy Sensor N/A N/A No 🗆 | Utility Single Fixture | | M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TAILORED FLOOR AN | ASK LIGHTING |
| Main Library Library Reading Area Manual ON/OFF Dimme | er Occupancy Sensor Included Included No | I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHO | | N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL | L/SDECIAL EFFECTS |
| Office Office 250 square feet or less Manual Dimme | er Occupancy Sensor N/A N/A No 🗆 | Each area complying using the Complete Building or Area Category Methods per $\underline{\$140.6(b)}$ are $\underline{\$140.6(c)}$ or adjustments per $\underline{\$140.6(a)}$ are being used . | included in this table. Column 06 indicates if additional lighting power allowances per | This section does not apply to this project. | -/SPECIAL EFFECTS |
| Sonier Room Conv. Room Manual Evernat | | Conditioned Spaces 01 02 | 03 04 05 06 | O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE | SLE MERCHANDISE |
| Manual | | Area Description Complete Building or Area Category Primary Allow | wed Density Area (ft²) Allowed Wattage Additional Allowance / Adjustmer | This section does not apply to this project. | |
| Sheriff's Interview Office 250 square feet or less ON/OFF Dimme | | Function Area (| (W/ft²) Area (It²) (Watts) Area Category PAF 0.65 265 172.2 No No | P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER AD | DJUSTMENT FACTOR (PAF)) |
| Sheriff's Office Office 250 square feet or less ON/OFF Dimme | | | 0.7 342 239.4 No No | This section does not apply to this project. | |
| Storage All Other Space Types Manual ON/OFF Exempt | * Occupancy Sensor N/A N/A No 🗆 | Conference Room Convention, Conference, Multipurpose and Meeting Center Areas | 0.85 204 173.4 No No | Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS This section does not apply to this project. | |
| Registration Number: Registrat | tion Date/Time: Registration Provider: Energysoft | Registration Number: Registration | n Date/Time: Registration Provider: Energyso | | Registration Date/Time: Registration Provider: Energyso |
| 0 0, , | /ersion: 2019.1.003 Report Generated: 2022-04-25 11:20:34 | | sion: 2019.1.003 Report Generated: 2022-04-25 11:20: | 4 CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Report Generated: 2022-04-25 11:20:3 |
| Schema | Version: rev 20200601 | Schema Ver | rsion: rev 20200601 | | Schema Version: rev 20200601 |
| | | STATE OF CALIFORNIA Indoor Lighting | | state of california Indoor Lighting | |
| | | NRCC-LTI-E CERTIFICATE OF COMPLIANCE | CALIFORNIA ENERGY COMMISSI | NRCC-LTI-E | CALIFORNIA ENERGY COMMISSIO |
| | | Project Name: Bear Valley Library Re | | Project Name: | Bear Valley Library Report Page: (Page 8 of |
| | | Project Address: 10988 Combie Rd Da | ate Prepared: 4/25/20 | Project Address: | 10988 Combie Rd Date Prepared: 4/25/20 |
| | | R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS | | DOCUMENTATION AUTHOR'S DECLARATION STATEMENT | |
| | | This section does not apply to this project. | | I certify that this Certificate of Compliance documentation is accu | Documentation Author Signature: |
| | | S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF) This section does not apply to this project | | Jim Puga Company: | Signature Date: |
| | | This section does not apply to this project. | | Up-Light Electrical Engineering, Inc. Address: | 2022-04-25 CEA/ HERS Certification Identification (if applicable): |
| | | T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Selections have been made based on information provided in this document. If any selection have | | 3130 Twitchell Island Road City/State/Zip: | Phone: |
| _ | | Additional Remarks. These documents must be provided to the building inspector during construction https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential | ruction and can be found online at | West Sacramento CA 95691 RESPONSIBLE PERSON'S DECLARATION STATEMENT | 916.371.3202 |
| REVIEWE | ED | Yes No Form/Tit | Field Inconstan | 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. | |
| FOR CODE COMPLIA | ANCE | NRCI-LTI-01-E - Must be submitted for all buildings | | I am eligible under Division 3 of the Business and Professions Code to accept re The energy features and performance specifications, materials, components, are | responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer) and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requiremer |
| Jul 06, 2022 | | NRCI-LTI-02-E- Must be submitted for a lighting control system, or for recognized for compliance. | | of Title 24, Part 1 and Part 6 of the California Code of Regulations. 4. The building design features or system design features identified on this Certific | ficate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, |
| INTERWEST CONSULT | TING GROUP | NRCI-LTI-04-E - Must be submitted for two interlocked systems servir multipurpose room or a theater to be recognized for compliance. | ng an auditorium, a convention center, a conference room, a | plans and specifications submitted to the enforcement agency for approval with 5. I will ensure that a completed signed copy of this Certificate of Compliance shal inspections. I understand that a completed signed copy of this Certificate of Completed signed copy of Certificate of Completed signed copy of Certificate of Certificate o | ith this building permit application. A state of the building permit application in the building permit (s) issued for the building and many available to the enforcement agency for all applicable ompliance is required to be included with the documentation the building owner at occupancy. |
| | | NRCI-LTI-05-E- Must be submitted for a Power Adjustment Factor (PA | · · · · · · · · · · · · · · · · · · · | Responsible Designer Name: Jim Levy | Responsible Designer Signature: |
| | | NRCI-LTI-06-E- Must be submitted for additional wattage installed in | a video conferencing scudio to be recognized for compliance. | Company: Up-Light Electrical Engineering, Inc. | Date Signed: 2022-04-25 |
| | | U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Selections have been made based on information provided in this document. If any selection have | | Address: 3130 twitchell Island Rd. | License: |
| | | Additional Remarks. These documents must be provided to the building inspector during constru Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.co | ruction and any with "-A" in the form name must be completed through an Acceptance | City/State/Zip: West Sacramento CA 92871 | Phone: 916-826-1824 |

WALLIS DESIGN STUDIO ARCHITECTS, INC.

241 Commercial St, Suite B Nevada City, CA 95959 (530) 264-7010 WallisDesignStudio.com

BEAR RIVER LIBRARY

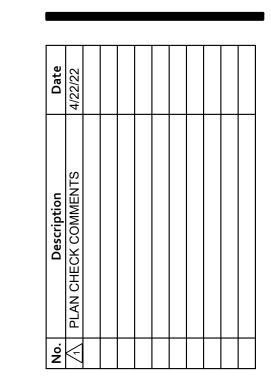
NEVADA COUNTY

10988 Combie Rd Suite 108 and 110 Auburn, CA 95602

DESIGN DEVELOPMENT



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21082 02.11.2022

Drawing Title:

INTERIOR TITLE-24 FORMS

JOB SET

Field Inspector

Pass Fail

□ □ □

□ □ □

□ □ □ Form/Title NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls. NRCA-LTI-03-A - Must be submitted for automatic daylight controls. NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls. NRCA-LTI-05-A. - Must be submitted for institutional tuning power adjustment factor (PAF) Registration Number: Registration Date/Time: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20200601

Registration Provider: Energysoft Registration Number: Report Generated: 2022-04-25 11:20:34

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20200601

Report Generated: 2022-04-25 11:20:34

Registration Provider: Energysoft

| | Project Name: Bear River Library Project Address: 10988 Combie Rd. Suites 108 & 110 Auburn 95602 | | | | | | | | NRCC-PRF-01 | -E | | | | | |
|---|---|--|---|---------------------|---------------------------|------------------------------|--------------------|---------------|------------------------------|-------------------------------|--|--|-------------|--|-----|
| I | ct Address: | 10988 Com | bie Rd | . Suites 1 | 108 & 110 / | Auburn 95602 | | | Calculation Da | ate/Time: | 11:41, Wed, | Feb 02, 2022 | | | |
| Input | File Name: | Bear River L | ibrary | - 22016 | .cibd19x | | | | | | | | | | |
| A. GI | NERAL INFORM | ATION | | | | | | | | | | | | | |
| 1 | Project Location (| | | | Auburn | | I | 8 | Standards Vei | rsion | | Compliance2 | 2019 | | |
| 2 | CA Zip Code | | | | 95602 | | | _ | Compliance S | | rsion) | EnergyPro 8.3 | | | |
| 3 | Climate Zone | | | _ | 11 | | | \rightarrow | Weather File | | , | MARYSVILLE-BEALE-AFB_724837_CZ2010.epw | | | w |
| 4 | Total Conditioned | Floor Area in | Scope | | 2,547 ft ² | | | \rightarrow | Building Orier | ntation (deg | 1) | (S) 180 deg | | | |
| 5 | Total Uncondition | | | | 0 ft ² | | | \rightarrow | Permitted Sco | | | NewEnvelope | eAndMech | nanical | |
| 6 | Total # of Stories | | ove Gr | | 1 | | | \rightarrow | Building Type | | • | Nonresidenti | | Trechamean | |
| 7 | Total # of dwelling | ` | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | 0 | | | _ | Gas Type | (5) | | NaturalGas | | | |
| | 1.000 | 5 4 | | | | | | | | | | 110001000 | | | |
| B. PR | OJECT SUMMAR | RY | | | | | | | | | | | | | |
| | Instructions: Table it application. | B shows which | h build | ding com | ponents ar | re included in the | performance calcu | lation. | If indicated a | s not includ | ed, the projec | t must show co | ompliance | prescriptively if withi | n |
| | | В | uilding | g Compo | nents Com | plying via Perfor | mance | | | | Buildin | g Components | s Complyir | ng Prescriptively | |
| | | | \boxtimes | Perforn | nance | | | | Performano | | | | | Y eligible for prescript | |
| Envel | Envelope (see Table G) | | | Not Inc | I., | Covered Process: Citchens | Commercial | × | Not include | d the sc | compliance and should be documented on the NRCC form listed if wi the scope of the permit application (i.e. compliance will not be show on the NRCC-PRF-E). | | | | |
| | | | × | Perforn | | | | | Performano | e Indoo | r Lighting (Un | conditioned)§: | 140.6 | NRCC-LTI-E | |
| Mech | anical (see Table H |) | | Not Inc | luded | Covered Process: | Computer Rooms | \boxtimes | Not Include | d Outdo | or Lighting §1 | 40.7 | | NRCC-LTO-E | |
| _ | | | \boxtimes | Perforn | nance | | | | Performano | e Sign L | ghting §140.8 | } | | NRCC -LTS-E | |
| Dome | estic Hot Water (se | e Table I) | | Not Inc | luded | Covered Process: | Laboratory Exhaust | \boxtimes | Not Include | d | | Mandato | ory Measu | res | |
| | omestic Hot Water (see Table I) ghting (Indoor Conditioned, see | | | Performance | | | | | | escala listed | Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should on the NRCC for listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.) | | | | |
| lable | · L | \times | Not Inc | luded | | | | | Electr | ical Power Dis | tribution S110 |).11 | NIDGG FLC F | | |
| lable | 1 | 6.2 | | | | | | | | | | | NRCC-ELC-E | | |
| | Thermal Water He | ating (see | | Perforn | | | | | | Comm | nissioning S12 | | | NRCC-ELC-E NRCC-CXR-E | |
| Solar | | ating (see | += | | nance | | | | | | nissioning S12 Ready S110.10 | 0.8 | | _ | |
| Solar Table | | | | Perforn Not Inc | nance | ompliance | Report Version | : NRCC | -PRF-01-E-12(| Solar | Ready S110.10 | 0.8 | | NRCC-CXR-E | :19 |
| Solar Table CA Bui | I) ilding Energy Efficients ct Name: | ency Standards Bear River L | □ ⊠ | Perform Not Inc | nance duded | | Report Version | | NRCC-PRF-01 | Solar | Page 2 of 12 | D.8) Report (| | NRCC-CXR-E NRCC-SRA-E | :19 |
| Solar Table CA Bui Projec | I) Iding Energy Efficient ct Name: ct Address: | ency Standards Bear River L 10988 Coml | □ ⊠ | Perform Not Inco | nance duded | ompliance Auburn 95602 | Report Version | | | Solar | Page 2 of 12 | D.8) Report (| | NRCC-CXR-E NRCC-SRA-E | :19 |
| Solar Table CA Bui | I) ilding Energy Efficients ct Name: | ency Standards Bear River L | □ ⊠ | Perform Not Inco | nance duded | | Report Version | | NRCC-PRF-01 | Solar | Page 2 of 12 | D.8) Report (| | NRCC-CXR-E NRCC-SRA-E | :19 |
| Solar Table CA Bui Projec Projec Input | I) Idding Energy Efficient ct Name: ct Address: File Name: | Bear River L 10988 Coml Bear River L | □ ⊠ | Perform Not Inc | nance duded luded colored | Auburn 95602 | TDV Energy Use | , kBtu, | NRCC-PRF-01 Calculation D | Solar | Page 2 of 12 | D.8) Report (| | NRCC-CXR-E NRCC-SRA-E | :19 |
| Solar Table CA Bui Projec Input | I) Idding Energy Efficient ct Name: ct Address: File Name: | Bear River L 10988 Coml Bear River L | □ ⊠ | Perform Not Inc | nance duded luded colored | Auburn 95602 | TDV Energy Use | , kBtu, | NRCC-PRF-01 Calculation D | Solar | Page 2 of 12 | D.8) Report (| Generated | NRCC-CXR-E NRCC-SRA-E at: 2022-02-02 11:42 | |
| Solar Table CA Bui Projec Input | I) Idding Energy Efficient ct Name: ct Address: File Name: | Bear River L 10988 Coml Bear River L | ibrary | Perform Not Inc | nance duded luded colored | Auburn 95602 | TDV Energy Use | , kBtu, | NRCC-PRF-01 Calculation D | Solar 092021-684E ate/Time: | Page 2 of 12 | Report 0 | Generated | NRCC-CXR-E NRCC-SRA-E | |

| Energy Component | Standard Design (TDV) | Proposed Design (TDV) | Compliance Margin (TDV) ¹ |
|--|--|--|--------------------------------------|
| Space Heating | 7.98 | 15.96 | -7.9 |
| Space Cooling | 69.77 | 65.32 | 4.4 |
| Indoor Fans | 91.37 | 86.21 | 5.1 |
| Heat Rejection | | | |
| Pumps & Misc. | | | |
| Domestic Hot Water | 14.02 | 13.91 | 0.1 |
| Indoor Lighting | 48.10 | 48.10 | |
| ENERGY STANDARDS COMPLIANCE TOTAL | 231.24 | 229.50 | 1.74 (0.8% |
| ¹ Notes: The number in parenthesis following the Compliance Margir C2. RESULTS FOR 'ABOVE CODE' QUALIFICATIONS ¹ | | | |
| ¹ Notes: The number in parenthesis following the Compliance Margir | | | |
| Notes: The number in parenthesis following the Compliance Margin C2. RESULTS FOR 'ABOVE CODE' QUALIFICATIONS¹ This project is pursuing CalGreen Tier 1 | in column 4. represents the Percent Be | tter than Standard. This project is pursuing CalGreen Tier | 2 |
| ¹ Notes: The number in parenthesis following the Compliance Margir C2. RESULTS FOR 'ABOVE CODE' QUALIFICATIONS ¹ | in column 4. represents the Percent Be | tter than Standard. | - |
| Notes: The number in parenthesis following the Compliance Margin C2. RESULTS FOR 'ABOVE CODE' QUALIFICATIONS¹ This project is pursuing CalGreen Tier 1 | in column 4. represents the Percent Be | tter than Standard. This project is pursuing CalGreen Tier | 2 |
| ¹ Notes: The number in parenthesis following the Compliance Margin C2. RESULTS FOR 'ABOVE CODE' QUALIFICATIONS¹ ☐ This project is pursuing CalGreen Tier 1 Miscellaneous Energy Component | in column 4. represents the Percent Be | tter than Standard. ☐ This project is pursuing CalGreen Tier Proposed Design (TDV) | 2 |
| ¹ Notes: The number in parenthesis following the Compliance Margin C2. RESULTS FOR 'ABOVE CODE' QUALIFICATIONS¹ ☐ This project is pursuing CalGreen Tier 1 Miscellaneous Energy Component Receptacle | in column 4. represents the Percent Be | tter than Standard. ☐ This project is pursuing CalGreen Tier Proposed Design (TDV) | 2 |
| **Notes: The number in parenthesis following the Compliance Margin **C2. RESULTS FOR 'ABOVE CODE' QUALIFICATIONS¹ This project is pursuing CalGreen Tier 1 Miscellaneous Energy Component **Receptacle** Process | in column 4. represents the Percent Be | tter than Standard. ☐ This project is pursuing CalGreen Tier Proposed Design (TDV) | 2 |
| **Notes: The number in parenthesis following the Compliance Margin **C2. RESULTS FOR 'ABOVE CODE' QUALIFICATIONS¹ This project is pursuing CalGreen Tier 1 Miscellaneous Energy Component **Receptacle Process Other Ltg | in column 4. represents the Percent Be | tter than Standard. ☐ This project is pursuing CalGreen Tier Proposed Design (TDV) | 2 |

| Project Name: | Bear River Library | | ı | NRCC-PRF-01-E | Page 3 of 12 | | |
|-------------------|-------------------------|-------------------------------|----------------------------|----------------------|--------------------------------|--------------------------------|------------------|
| Project Address: | 10988 Combie Rd. Suit | tes 108 & 110 Auburn 95602 | | Calculation Date/Tir | ne: 11:41, Wed, Feb 02, 2 | 022 | |
| nput File Name: | Bear River Library - 22 | 016.cibd19x | | | | | |
| C3. ENERGY USE SU | UMMARY | | | | | | |
| Ene | ergy Component | Standard Design Site (MWh) | Proposed Design S (MWh) | Margin (MWh) | Standard Design Site (MBtu) | Proposed Design Site (MBtu) | Margir (MBtu) |
| S | Space Heating | | 1.7 | | 10.0 | | |
| Space Cooling | | 4.2 | 3.7 | -0.5 | - | - | |
| Indoor Fans | | 7.9 | 7.5 | -0.4 | - | | |
| Heat Rejection | | | | | | | |
| P | umps & Misc. | | | | | - | |
| Don | nestic Hot Water | 1.3 | 1.3 | 0.0 | | | |
| Ir | ndoor Lighting | 4.3 | 4.3 | 0.0 | | | > |
| Co | mpliance Total | 17.7 | 18.5 | 0.8 | 10.0 | 0.0 | |
| | Receptacle | 8.6 | 8.6 | 0.0 | | - | |
| | Process | - | - | | - | | |
| | Other Ltg | - | | | | | |
| Р | rocess Motors | | - | | | | |
| | TOTAL | 26.3 | 27.1 | 0.8 | 10.0 | 0.0 | |

| 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 occupying. |
| This project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylit Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (form NRCC-LTI-02-E) for the requirements of section 140.6(d) Automatic Daylighting Controls in Secondary Daylit Zones is required. |

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-12092021-6844

E. HERS VERIFICATION

This Section Does Not Apply

| Bear River Library - 22 | 016.cibd19x | | | |
|--|--|--|--|--|
| RAL INFORMATION (co | onditioned spaces only) | | | |
| 1 | 2 | 3 | | 4 |
| es & Orientation | Total Gross Surface Area (ft²) | Total Fenestration Are | a (ft²) | Window to Wall Ratio (%) |
| North-Facing ¹ | 530 ft ² | | 150 ft ² | 28. |
| East-Facing ² | 0 ft² | | 0 ft ² | 00. |
| South-Facing ³ | 0 ft² | | 0 ft ² | 00. |
| West-Facing⁴ | 0 ft² | | 0 ft ² | 00. |
| Total | 530 ft² | | 150 ft ² | 28. |
| | 0 ft ² | | 0 ft ² | 00. |
| ed to within 45 degree: nted to within 45 degre | s of true east, including 45°00'00" south of ea es of true south, including 45°00'00" west of | st (SE), but excluding 45°00'0 south (SW), but excluding 45° | 0" north of eas '00'00" east of | t (NE). south (SE). |
| | RAL INFORMATION (co. 1 28 & Orientation North-Facing East-Facing South-Facing Total Total And the degree of the within 45 de | North-Facing ¹ 530 ft ² East-Facing ² 0 ft ² South-Facing ³ 0 ft ² West-Facing ⁴ 0 ft ² Total 530 ft ² Total 530 ft ² wited to within 45 degrees of true north, including 45°00'00" east of red to within 45 degrees of true east, including 45°00'00" south of east of the towithin 45 degrees of true south, including 45°00'00" south of east of the towithin 45 degrees of true south, including 45°00'00" west of the towithin 45 degrees of true south, including 45°00'00" west of the towithin 45 degrees of true south, including 45°00'00" west of the towithin 45 degrees of true south, including 45°00'00" west of the towithin 45 degrees of true south, including 45°00'00" west of the towithin 45 degrees of true south, including 45°00'00" west of the towithin 45 degrees of true south, including 45°00'00" west of the towithin 45 degrees of true south, including 45°00'00" west of the towithin 45 degrees of true south, including 45°00'00" west of the towithin 45 degrees of true south, including 45°00'00" west of the towithin 45 degrees of true south, including 45°00'00" west of the towithin 45 degrees of true south, including 45°00'00" west of the towithin 45 degrees of true south, including 45°00'00" west of the towithin 45 degrees of true south, including 45°00'00" west of the towithin 45°00'00" west of the towi | RAL INFORMATION (conditioned spaces only) 1 2 3 2 8 Section Surface Area (ft²) Total Fenestration Area (ft²) Fenestration Are | RAL INFORMATION (conditioned spaces only) 1 2 3 2 3 2 8 Orientation Total Gross Surface Area (ft²) Total Fenestration Area (ft²) North-Facing² 530 ft² 150 ft² East-Facing² 0 ft² 0 ft² South-Facing² 0 ft² 0 ft² West-Facing² 0 ft² 0 ft² Total 530 ft² 150 ft² |

NRCC-PRF-01-E Page 4 of 12

Calculation Date/Time: 11:41, Wed, Feb 02, 2022

Project Name: Bear River Library
Project Address: 10988 Combie Rd. Suites 108 & 110 Auburn 95602

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 1 |
|---------------------|------------------|------------|-----------------|-------------------|-----------------------|----------|-------|---|--------|
| Surface Name | Surface Type | Area (ft²) | Framing Type | Cavity R-Value | Continuous R-Value | Units | Value | Description of Assembly Layers | Status |
| Slab On Grade6 | UndergroundFloor | 2547 | NA | 0 | NA | F-Factor | 0.73 | Slab Type = UnheatedSlabOnGrade Insulation Orientation = None Insulation R-Value = R0 | N |
| R-O Roof Cathedral8 | Ceiling | 2547 | Wood | 0 | NA | U-Factor | 0.236 | Asphalt shingles - 1/4 in. Vapor permeable felt - 1/8 in. Plywood - 1/2 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more Wood framed roof, 16in. OC, 3.5in., R-0 Gypsum Board - 1/2 in. | N |
| 8 CMU Wall10 | UndergroundWall | 825 | NA | 0 | NA | C-Factor | 1.14 | Concrete - Solid Grout - 115 lb/ft3 - 8 in. | ١ |

| 1 Surface Name | Surface Type | Area (ft²) | Framing Type | 5 Cavity R-Value | 6 Continuous R-Value | Units | 8 Value | 9 Description of Assembly Layers |
|---------------------|------------------|------------|-----------------|------------------------|----------------------------|----------|------------|---|
| Slab On Grade6 | UndergroundFloor | 2547 | NA | 0 | NA | F-Factor | 0.73 | Slab Type = UnheatedSlabOnGrad Insulation Orientation = None Insulation R-Value = R0 |
| R-O Roof Cathedral8 | Ceiling | 2547 | Wood | 0 | NA | U-Factor | 0.236 | Asphalt shingles - 1/4 in. Vapor permeable felt - 1/8 in. Plywood - 1/2 in. Air - Cavity - Wall Roof Ceiling - 4 i or more Wood framed roof, 16in. OC, 3.5ir R-0 Gypsum Board - 1/2 in. |
| 8 CMU Wall10 | UndergroundWall | 825 | NA | 0 | NA | C-Factor | 1.14 | Concrete - Solid Grout - 115 lb/ft3 in. |

| ency Standards- 2019 | Nonresidential Complian | nce | Report Versio | n: NRCC-I | PRF-01-E-1209202 | 21-6844 | | | Report Generated at: 2022-02-02 11:4 | 2:19 |
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| Bear River Library | | | | N | IRCC-PRF-01-E | | Page 5 of 12 | ! | | _ |
| 10988 Combie Rd. | Suites 108 & 110 Auburr | 95602 | | С | alculation Date/T | ime: | 11:41, Wed, | Feb C | 2, 2022 | |
| Bear River Library - | 22016.cibd19x | | | | | T | | | | |
| | //ARY | 3 | 4 | 5 | 6 | 7 | 1 | 8 | 9 | _ |
| Name | Surface Type | Area (ft²) | Framing Type | | | Uni | ts Va | lue | Description of Assembly Layers | Guna |
| | | | | | | | | | Concrete - Solid Grout - 115 lb/ft3 - | |
| | Bear River Library 10988 Combie Rd. Bear River Library | Bear River Library 10988 Combie Rd. Suites 108 & 110 Auburr Bear River Library - 22016.cibd19x CE ASSEMBLY SUMMARY 2 | Bear River Library 10988 Combie Rd. Suites 108 & 110 Auburn 95602 Bear River Library - 22016.cibd19x CE ASSEMBLY SUMMARY 2 3 | Bear River Library 10988 Combie Rd. Suites 108 & 110 Auburn 95602 | Bear River Library | Bear River Library |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 1 |
|---|---|-----------------------------------|-----------------|----------------------|---------------------|-----------------|---------------|---|
| Fenestration Assembly Name / Tag or I.D. | Fenestration Type / Product Type / Frame Type | Certification Method ¹ | Assembly Method | Area ft ² | Overall U-factor | Overall SHGC | Overall VT | |
| Storefront Clear Metal Single | VerticalFenestration CurtainWall MetalFraming | Default Performance | SiteBuilt | 130 | 1.19 | 0.83 | 0.88 | |
| Storefront LowE Metal Double | VerticalFenestration CurtainWall N/A | NFRC Rated | SiteBuilt | 20 | 0.47 | 0.25 | 0.50 | |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 1 |
|----------------|--------------------|-----|-------------------------------------|--------------------------------|--------------------|------------|--|-----------------|---------------|------------------------------|--------|
| | | | | Heatin | g | | | Cooling | | | Г |
| Equipment Name | Equipment Type | Qty | Total Heating Output (kBtu/h) | Supp Heat Output (kBtuh) | Efficiency Unit | Efficiency | Total Cooling Output (kBtu/h) | Efficiency Unit | Efficiency | Economizer Type (if present) | Status |
| FC-1 | SZHP (Split1Phase) | 1 | 11 | 0 | HSPF | 11.500 | 9 | SEER/EER | 19.400/12.500 | NoEconomizer | ١ |
| FC-2 | SZHP (Split1Phase) | 1 | 36 | 10 | HSPF | 8.200 | 36 | SEER/EER | 14.000/11.700 | NoEconomizer | ı |

| Project Name: | | Bear River Libi | rary | | | | | NRCC-PRF-01-E | | Page 6 of 12 | | | | |
|----------------------|--|------------------------|--------------|-------------|------------------------------------|------------------|------------------|---------------|--------------------------------|----------------------------|----------------------------|----------------------|------------------------------|-----|
| Project Address: | Bear River Library - 22016. TEM EQUIPMENT (furnaces, air hair hair hair hair hair hair hair | | LO8 & 110 | Auburn 9560 | 02 | | Calculation Date | e/Time: | 11:41, Wed, Feb 0 | 2, 2022 | | | | |
| Input File Name: | | Bear River Libi | ary - 22016. | .cibd19x | | | | | | | | | | |
| H1. DRY SYSTEM | EQUIF | MENT (furna | ices, air ha | ndling u | nits, heat p | umps, VRF, | economizers | etc.) | | | | | | _ |
| 1 | Ť | | Ī | 3 | 4 | 5 | | | 8 | 9 | 10 | 1 | 11 | T : |
| | | | | | | <u>'</u> | Heating | ' | | Cooling | | | | T |
| Equipment Nam | ie | Equipmen | it Type | Qty | Total Heatin Output (kBtu/h) | Outp | out Efficie | | Tota Cooli Outp (kBtu | ing out Efficiency Unit | Efficiency Unit Efficiency | | Economizer Type (if present) | |
| FC-3 | | SZHP (Split | 1Phase) | 1 | 36 | 10 | HS | PF 8.200 | 36 | SEER/EER | 14.000/11.700 | NoEd | conomizer | Τ |
| | | | | | | | | | | | | • | | _ |
| | | | | | | | | • | | | | • | | _ |
| | SUM | MARY | 4 | | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | |
| H2. FAN SYSTEMS 1 | SUM | MARY 3 | 4 | | | 6 Supply Fan | 7 | 8 | 9 | | 11 Return Fan | 12 | 13 | ⊢ |
| H2. FAN SYSTEMS 1 | SUM 2 | MARY 3 Design OA | - | Model | | | 7 Power Units | 8 Control | | | Return Fan | 12 Power Units | 13 Control | ╁ |
| H2. FAN SYSTEMS 1 | SUM 2 | MARY 3 Design OA | - | | | Supply Fan | Power | | | | Return Fan | Power | | ╁ |
| Name or Item Tag | SUM 2 Qty | MARY 3 Design OA CFM | CFM | Brakel | ing Method | Supply Fan Power | Power Units | Control | СЕМ | Modeling Method | Return Fan Power | Power Units | Control | |

| 10-2 | 1 * | 203 | 1200 | Diakeriorser ower | 0.000 | Dilb | Constantivolume | 11/0 | 1 110 | 1 11/4 | INA | I IVA | 1 " |
|---------------------------------------|-------------|---------------|---------------|-------------------|-------|------|-----------------|------|-------|--------|-----|-------|-----|
| FC-3 | 1 | 153 | 1200 | BrakeHorsePower | 0.660 | bhp | ConstantVolume | NA | NA | NA | NA | NA | ١ |
| ¹ Status: N - New, A – Alt | ered, E – I | Existing | | • | | | | | | | | | |
| | | | | | | | | | | | | | |
| H3. EXHAUST FA | N SUM | IMARY | | | | | | | | | | | |
| This Section Does I | Not App | oly | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| H4. Wet System | Equipn | nent(boilers, | chillers,coo, | ling towers,etc.) | | | | | | | | | |
| This Section Does I | Not App | oly | | | | | | | | | | | |
| | | | | | | | | | | | | | _ |
| H5. PUMPS | | | | | | | | | | | | | |
| This Section Does I | Not App | oly | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

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| Project Name: | Bear River Library | | | | | NRCC-PRF | -01-E | Pag | ge 7 of 12 | | | | |
|---------------------------------|------------------------------|---------------------------------------|--|--------------------|-----------------------|---------------|---|-----------|-----------------|---------------|----------------|----------------------------|----|
| Project Address: | 10988 Combie Rd. | Suites 108 & 110 Auburn 95 | 602 | | | Calculation | n Date/Tim | ne: 11: | 41, Wed, Fe | b 02, 2022 | | | |
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| H6. SYSTEM SPECIAL | FEATURES | | | | | | | | | | | | |
| 1 | | 2 | | | 3 | П | | | | 4 | | | |
| System Na | ame | Equipment Type | | Window §1 | Interlocks 40.4(n) | per | | | Other Sp | ecial Feature | and Contro | ols | |
| Res DHW1 - | SHW | Service Hot Water, Primary | Only | | NA | | | | Fixe | d Temperatur | e Control | | |
| Notes: This table includes cont | rols related to the performa | nce path only. For projects using the | prescriptiv | e path, mandatory | and prescrip | tive controls | requirements | are docum | ented on the Ni | RCC-MCH-E. | | | |
| H7. NONRESIDENTIA | L VENTILATION | | | | | | | | | | | | |
| 1 | | 2 | | | 3 | | 4 | 5 | | 6 | Т | 7 | |
| | | | | Med | hanical V | entilation | | | | | | | |
| Zone Na | ame | Ventilation Function | | | # of | Sup | ply OA | Exha | ust Co | nditioned Ar | | or Occupan Controls, or | |
| | | ventilation i | -unction | | peop | le (| CFM . | CFI | и | (sf) | | | |
| 1-Shei | riff | Office - Office space | | | 1.23 | 1 | 37 | 0 | | 246 | | NA | |
| 2-Childrens | | General - Conference/meet | sembly - Libraries (reading rooms and eneral - Conference/meeting Office - G General - Corridors | | | 0 : | 263 | 0 | | 1284 | | NA | |
| 3-Main Li | brary | Assembly - Libraries (reading | g rooms a | and stack areas |) 10.1 | 7 | 153 | 0 | | 1017 | | NA | |
| HO HIGH DISE DESIG | ENTIAL DWELLING | UNIT AND HOTEL/MOTE | I VENTI | LATION | | | | | | | | | |
| | | ONIT AND HOTEL/MOTE | LVENTI | LATION | | | | | | | | | |
| This Section Does Not A | чрріу | | | | | | | | | | | | |
| H9. ZONAL SYSTEM | AND TERMINAL UN | IT SUMMARY | | | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | | 8 | 9 | 10 | 11 | 12 | 13 |
| System ID | Zone Name | System Type | Qty | Rated Caj (kBtu | | | Airflo | w (cfm) | | | Fi | an | |
| <u> </u> | | , ,,,,, | | Heating | Cooling | Desi | gn | Min. | Min. Ratio | Power | Power Units | Cycles | vs |
| 1-Sheriff-Trm | 1-Sheriff | Uncontrolled | 1 | NA | NA | 350 | | NA | 0.00 | 0.200 | bhp | NA | |
| 2-Childrens | | | I . | | NIA | 120 | <u>, </u> | NA | 0.00 | 0.660 | la la ca | NA. | - |
| Library-Trm | 2-Childrens Librar | y Uncontrolled | 1 | NA | NA | 120 | <u>ا</u> ا | INA | 0.00 | 0.660 | bhp | I NA | |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
|----------------------------|---------------------|--------------|-----|---------|---------|---------------|------|------------|-------|----------------|--------|-----|
| | | | Qty | Rated (| | Airflow (cfm) | | • | Fan | | | |
| System ID | Zone Name | System Type | | Heating | Cooling | Design | Min. | Min. Ratio | Power | Power Units | Cycles | VSD |
| eriff-Trm | 1-Sheriff | Uncontrolled | 1 | NA | NA | 350 | NA | 0.00 | 0.200 | bhp | NA | |
| 2-Childrens .ibrary-Trm | 2-Childrens Library | Uncontrolled | 1 | NA | NA | 1200 | NA | 0.00 | 0.660 | bhp | NA | |
| ain Library-Trm | 3-Main Library | Uncontrolled | 1 | NA | NA | 1200 | NA | 0.00 | 0.660 | bhp | NA | |

| Project Name: | Bear River Library | NRCC-PRF-01-E | Page 8 of 12 | Project Name | e: | Bear River Library | |
|----------------------|--|------------------------|--|----------------|-----------------------|--|--|
| Project Address: | 10988 Combie Rd. Suites 108 & 110 Auburn 95602 | Calculation Date/Time: | 11:41, Wed, Feb 02, 2022 | Project Addre | ess: | 10988 Combie Rd. Suites 108 & 110 Auburn 95602 | |
| Input File Name: | Bear River Library - 22016.cibd19x | | | Input File Na | me: | Bear River Library - 22016.cibd19x | |
| H10. EVAPORATIVE | COOLER SUMMARY | 1 1 | DOCUMENTATION AUTHOR'S DECLARATION STATEMENT | | | | |
| This Section Does No | t Apply | " | I certify that this Certificate of Compliance documentation is accurate and complete. Documentation Author Name: Chris Miller | | | | |
| H11. HEAT RECOVE | RY SUMMARY | | Company: MELAS ENERGY ENGINEERING | | | | |
| This Section Does No | t Apply | , | | Address: 547 | Address: 547 Uren St. | | |
| | | | | City/State/Ziu | p: Nevada | a City CA 95959 | |
| I1. WATER HEATER | EQUIPMENT SUMMARY | | | | | , | |
| | | | | Phone: 530.2 | CE 2402 | | |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|----------------------|---------------------------|-----------|-----|-------------------|-------------|---------------------|------------|--------------------|--|-----------------------------|---|-------------------|---|
| Name | Heater Element Type | Tank Type | Qty | Tank Vol (gal) | Rated Input | Rated Input Unit | Efficiency | Efficiency Unit | Tank Insulation R-value (Int/Ext) | Standby Loss Fraction | 1st Hour Rating or Flow Rate (gal) | Heat Pump Type | Tank Location or Ambient Condition |
| Electric Storage2 | Electricity | Storage | 1 | 20.00 | 3.7 | kW | 0.92 | UEF | NA | NA | 20 | NA | NA |

| Address, 547 Oren St. | Signature Date. Lozz oz oz | | | | | |
|---|---|--|--|--|--|--|
| City/State/Zip: Nevada City CA 95959 | CEA/ HERS Certification Identificatio 6D6E-3177-3AC2-8FC0-4F54-7F61-E | on (if applicable): DDFF-CAE4-CAC8-CC68-D2CF-D076-9F4F-E389-B8EF-0001 | | | | |
| Phone: 530 265-2492 | | | | | | |
| RESPONSIBLE PERSON'S DECLARATION STATEMENT | =30 | | | | | |
| 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 3. The energy features and performance specifications, materials, components, and manufact of Title 24, Part 1 and Part 6 of the California Code of Regulations. 4. The building design features or system design features identified on this Certificate of Complans and specifications submitted to the enforcement agency for approval with this building 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made a inspections. I understand that a completed signed copy of this Certificate of Compliance is rec | tured devices for the building design or system design i pliance are consistent with the information provided or permit application. vailable with the building permit(s) issued for the build | dentified on this Certificate of Compliance conform to the requiremen n other applicable compliance documents, worksheets, calculations, ling, and made available to the enforcement agency for all applicable | | | | |
| Responsible Envelope Designer Name: Robert Wallis | 5 | Signature: | | | | |
| Company: Wallis Design Studio Architecture | signature: 19 /cells | , | | | | |
| Address: 149 Crown Point Ct, Suite C | Date Signed: 04-29-2022 | | | | | |
| City/State/Zip: Grass Valley CA 95945 | | | | | | |
| Phone: 530 264-7010 | Title: architect | License #: C-30915 | | | | |
| Responsible Lighting Designer Name: Robert Wallis | Signature: NOT IN SCOPE | Signature NOT IN SCORE | | | | |
| Company: Wallis Design Studio Architecture | Signature: NOT IN SCOPE | Signature: NOT IN SCOPE | | | | |
| Address: 149 Crown Point Ct, Suite C | Date Signed: | | | | | |
| City/State/Zip: Grass Valley CA 95945 | | | | | | |
| Phone: 530 264-7010 | Title: | License #: | | | | |
| Responsible Mechanical Designer Name: Michael Melas | Signature: | | | | | |
| Company: Melas Energy Engineering | Signature. | | | | | |
| Address: 547 Uren St. | Date Signed: | | | | | |
| | | | | | | |

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Signature Date: 2022-02-02

Report Generated at: 2022-02-02 11:42:19

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 Provider (ATTCP). For more information visit:https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD

Project Name: Bear River Library
Project Address: 10988 Combie Rd. Suites 108 & 110 Auburn 95602
Input File Name: Bear River Library - 22016.cibd19x

Envelope NRCA-ENV-02-F - NRFC label verification for fenestration

Acceptance (if applicable) since testing activities overlap NRCA-MCH-03-A Constant Volume Single Zone HVAC

NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

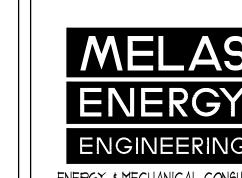
Building Component

| | | | | _ |
|-----------------------|--|-------------------------|--------------------------|-------|
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| Project Address: | 10988 Combie Rd. Suites 108 & 110 Auburn 95602 | Calculation Date/Time: | 11:41, Wed, Feb 02, 2022 | Proje |
| nput File Name: | Bear River Library - 22016.cibd19x | | | Input |
| L. DECLARATION OF RI | EQUIRED CERTIFICATES OF INSTALLATION | | | Phon |
| compliance. These doc | ctions shall be made by Documentation Author to indicate which Certif uments bust be retained and provided to the building inspector during o n.gov/title24/2019standards/2019_compliance_documents/Nonresider | construction and can be | found online at: | |
| Building Component | | Form/Title | |] |
| Envelope | NRCI-ENV-01-E - Must be submitted for all buildings | | | 1 |
| Mechanical | NRCI-MCH-01-E - Must be submitted for all buildings | | | |
| Plumbing | NRCI-PLB-01-E - Must be submitted for all buildings | | | |
| | | | | |

| Project Name: | Bear River Library | | NRCC-PRF-01-E | Page 12 of 12 | |
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| Project Address: | 10988 Combie Rd. Suites 108 & 110 Auburn 95602 | | Calculation Date/Time: | | sh 02 2022 |
| | | | Calculation Date/Time: | 11:41, Wea, Fe | 20 02, 2022 |
| Input File Name: | Bear River Library - 22016.cibd19x | | | | |
| Phone: 530 265-2492 | | Title: | | | License #: M26789 |

REVIEWED FOR CODE COMPLIANCE Jul 06, 2022 INTERWEST CONSULTING GROUP

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-12092021-6844 Report Version: NRCC-PRF-01-E-12092021-6844 Report Generated at: 2022-02-02 11:42:19



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



COMPONENT OPE. 110 **ං**ර ∞ర 08 10988 COMBIE RD., SUITES 108 AUBURN, CA 95602 TITLE-24 ENERGY REPORT MECHANICAL, WATER HEATING () BEAR RIVER LIBRARY NEVADA COUNTY No. Date: By: Description:

Plot Date:

Job#

22-016

2-2-2022