JADE STREET PARK RESTROOM REMODEL

4400 JADE STREET, CAPITOLA CA 95010

PROJECT DATA

I.ARCHITECT ASSUMES NO RESPONSIBILITY FOR THE COMPLETENESS OF PLANS FOR BID PURPOSES PRIOR TO ISSUANCE OF THE BUILDING PERMIT. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB SITE PRIOR TO BEGINNING OF CONSTRUCTION.

THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS TO INCLUDE ALL LABOR, MATERIALS AND SERVICES NECESSARY FOR THE COMPLETION OF ALL WORK SHOWN PRESCRIBED OR REASONABLY IMPLIED, BUT NOT LIMITED TO THAT EXPLICITLY INDICATED IN THE CONTRACT DOCUMENTS.

3. THE ARCHITECT'S APPROVAL OF SUCH SHOP DRAWINGS SHALL NOT RELIEVE THE GENERAL CONTRACTOR OR SUBCONTRACTOR FROM RESPONSIBILITY FOR

DEVIATIONS FROM DRAWINGS OR SPECIFICATIONS UNLESS HE OR SHE HAS (IN WRITING) CALLED THE ARCHITECT'S ATTENTION TO SUCH DEVIATIONS AT THE TIME OF SUBMISSIONS, NOR SHALL IT RELIEVE HIM OR HER OF RESPONSIBILITY FOR ERRORS OF ANY SORT IN THE SHOP DRAWINGS.

4. ARCHITECT OR DESIGNER AS USED IN THESE DOCUMENTS REFERS TO BOONE LOW RATLIFF ARCHITECTS, 151 VAN NESS AVENUE, SANTA CRUZ, CA 95060. (831)

5. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES HAVING JURISDICTION.

6. CONTRACTOR IS RESPONSIBLE FOR EXAMINING ALL CONTRACT DOCUMENTS, FIELD CONDITIONS, AND CONFIRMING THAT WORK IS BUILDABLE AS SHOWN BEFORE PROCEEDING WITH CONSTRUCTION, IF THERE ARE ANY QUESTIONS REGARDING THESE OR OTHER COORDINATION ITEMS, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ARCHITECT OR TENANT CONSTRUCTION COORDINATOR BEFORE PROCEEDING WITH WORK IN QUESTION OR RELATED WORK.

I. PRIOR TO THE ISSUANCE OF A BUILDING PERMIT, THE APPLICANT SHALL HAVE EVIDENCE OF CURRENT WORKMAN'S COMPENSATION INSURANCE COVERAGE ON FILE, IN COMPLIANCE WITH SECTION 3800 OF THE CALIFORNIA LABOR CODE.

8. DIMENSIONS ON DRAWINGS ARE SHOWN TO FACES OF WALLS AND PARTITIONS OR FINISHED FACE OF EXISTING WALLS UNLESS NOTED OTHERWISE.

9. ALL VERTICAL DIMENSIONS SHOWN ARE TO FLOOR SLAB, UNLESS OTHERWISE INDICATED.

GENERAL NOTES

10. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IMMEDIATELY BEFORE COMMENCING ANY WORK.

11. CONTRACTOR SHALL CHECK AND VERIFY SIZE AND LOCATIONS OF DUCT OPENINGS AND PLUMBING RUNS WITH MECHANICAL CONTRACTOR BEFORE FRAMING WALLS,

12. INSTALL ALL MANUFACTURED ITEMS, MATERIALS AND EQUIPMENT IN STRICT ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

13. "ALIGN" AS USED IN THESE DOCUMENTS SHALL MEAN TO ACCURATELY LOCATE FINISH FACES IN THE SAME PLANE

14. "TYPICAL" OR "TYP" AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITION IS THE SAME OR REPRESENTATIVE FOR ALL SIMILAR CONDITIONS

15. DETAILS ARE USUALLY KEYED AND NOTED "TYPICAL" ONLY ONCE, WHEN THEY FIRST OCCUR AND ARE REPRESENTATIVE OF ALL SIMILAR CONDITIONS THROUGHOUT,

16. DO NOT SCALE DRAWINGS. DIMENSIONS GOVERN. LARGE SCALE DETAILS GOVERN OVER SMALL SCALE DETAILS.

IT. CONTRACTOR SHALL BE RESPONSIBLE FOR THE GENERAL CLEANING OF A JOB AFTER ITS COMPLETION. UNUSED MATERIALS TO BE DONATED.

18. ALL REQUESTS FOR SUBSTITUTIONS OR ITEMS SPECIFIED SHALL BE APPROVED BY ARCHITECT.

19. GLASS DOORS, ADJACENT PANELS, AND ALL GLAZED OPENINGS, WITHIN 18 INCHES OF THE ADJACENT FLOOR SHALL BE OF GLASS APPROVED FOR IMPACT

20. CENTER OF SWITCHES SHALL BE NO MORE THAN 48" ABOVE FLOOR.

21. CENTERLINE OF 15, 20 AND 30 AMP RECEPTACLES SHALL (EXCEPT PERMANENTLY INSTALLED BASEBOARD HEATERS) NOT TO BE LESS THAN 15" ABOVE FLOOR.

FLOOR OUTLETS ACCEPTABLE NEXT TO SLIDING PANELS OR WALLS AND OTHER SPECIAL CONVENIENCE LOCATIONS. BASEBOARD OUTLETS ACCEPTABLE IN RELOCATABLE PARTITIONS, WINDOW WALLS.

22. FOUNDATION CONSTRUCTION SHALL INCORPORATE RECYCLED FLY ASH IN CONCRETE UP TO 15%-20%. RETAIN CONCRETE MIX TAG FOR INSPECTOR.

23. FORM BOARDS SHALL BE REUSED. V.O.C. FREE PLANT BASED RELEASE AGENT TO BE APPLIED (RAPESEED, SOYBEAN OR VEGETABLE OIL) WHEN POSSIBLE METAL FORMS TO BE PROVIDED BY A SPECIALTY CONTRACTOR AND REUSED ON OTHER PROJECTS.

24. JOINTS AND OTHER OPENINGS IN THE BUILDING ENVELOPE THAT ARE POTENTIAL SOURCES OF AIR LEAKAGE SHALL BE CAULKED, GASKETED, WEATHERSTRIPPED, OR OTHERWISE SEALED TO LIMIT INFILTRATION AND EXFILTRATION.

25. INSTALL INSULATION AFTER BUILDING IS WEATHERTIGHT AND OUTSIDE OF RAINY SEASON. INSTALL INSULATION TO COMPLY WITH CALIFORNIA STATE REQUIREMENTS (SEE FORM CF2R-ENV-23-H). CONTRACTOR TO CHECK MOISTURE CONTENT OF MATERIALS FOR WALLS AND FLOORS BEFORE ENCLOSURE, FOR COMPLIANCE WITH

26. USE EXTERIOR GRADE PLYWOOD FOR ALL INTERIOR APPLICATIONS.

27. DOCUMENTS FOR DEFERRED SUBMITTAL SHALL BE SUBMITTED TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING DEPARTMENT WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND FOUND TO BE IN GENERAL CONFORMANCE TO THE DESIGN OF THE BUILDING. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING DEPARTMENT.

28. AT TIME OF FINAL INSPECTION, CONTRACTOR TO PLACE IN BUILDING AN OPERATION AND MAINTENANCE MANUAL IN THE FORMAT OF A MANUAL, COMPACT DISC, WEB-BASED REFERENCE OR OTHER MEDIA ACCEPTABLE TO THE ENFORCING AGENCY, COVERING 10 SPECIFIC SUBJECT AREAS.

29. DONATE UNUSED MATERIALS TO THE HABITAT FOR HUMANITY RESTORE.

30. MINIMIZE DISRUPTION OF EXISTING PLANTS AND TREES.

ABBREVIATIONS

BOARD

BOTTOM

CEILING

CENTER LINE

CLEARANCE

CONCRETE

CONTINUOUS

DOUBLE

DOWN

DIMENSION

DOWNSPOUT

DISHWASHER

FINISH FLOOR

FINISH GRADE

ELEVATION

DIMENSION POINT

BD.

C.B.C.

CL

CLG

CLR.

CONC.

CONT.

DBL

DIM.

DN

DS.

DW

EQ.

F.G.

ELEY.

DIM. PT

ABOYE FINISH FLOOR

ABOYE FINISH GRADE

CALIFORNIA BLDG. CODE

31. PROTECT ANNULAR SPACES AROUND OPENINGS IN PLATES AT EXTERIOR WALL WITH CEMENT MORTAR, CONCRETE, OR SIMILAR MATERIAL.

F.F.E.

GC

HORIZ.

STL

T.O.

32. A MINIMUM OF 10% OF CONSTRUCTION AND DEMOLITION WASTE IS TO BE RECYCLED.

33. WASTE DISPOSAL: RETAIN ALL WASTE HAULING RECEIPTS FOR INSPECTOR. RECEIPTS MUST INDICATE 10% SEPARATED, RECYCLABLE MATERIALS.

FACE OF STUD

GYPSUM BOARD

MANUFACTURED

HORIZONTAL

KITCHEN

MOUNTED

PLATE

SIMILAR

STEEL

TOP OF

TYPICAL

ASSOCIATION

REFRIGERATOR

FLOOR

GAUGE

FINISH FLOOR ELEVATION

GENERAL CONTRACTOR

HYDRONIC MANIFOLD

NATIONAL FIRE PROTECTION

APPLICABLE CODES

OCCUPANCY: U

CONSTRUCTION TYPE: IIIB

ZONING: COMMUNITY FACILITY

NOTE: BUILDING IS UNHEATED

TOTAL LOT AREA: 419,483 SQ.FT.

(E) \$ PROPOSED BUILDING AREA: 135 SQ.FT.

SCOPE OF WORK

ACCESSIBILITY UPGRADES TO AN (E) RESTROOM BUILDING, INCLUDING

REMODELING THE (E) MALE \$ FEMALE RESTROOMS INTO 2-SINGLE USER

ACCESSIBLE ALL-GENDER RESTROOMS WITH ADULT CHANGE TABLES.

THROUGHOUT AND A (N) LEVELLED FLOOR. THE (E) OPENINGS ARE TO

THROUGHOUT AT BOTH INTERIOR AND EXTERIOR. (E) RAFTERS ARE TO

REPLACED WITH (N) LIFETIME ASPHALT SHINGLE INCLUDING (N) GUTTERS

UPGRADED TO MEET CURRENT CODE. THE (E) SIDEWALK AND PATH OF

WORK TO INCLUDE REMODELED ENTRIES, (N) FIXTURES AND FITTINGS

BE REMOVED AND REPLACED WITH (N) LOUVERED WINDOW FRAMED

OPENINGS. ENTRY GATES ARE TO BE REPLACED WITH (N) REMOTE-

LOCKABLE DOORS AND THERE IS TO BE A (N) PAINT FINISH

UPGRADED TO MEET CURRENT ACCESSIBILITY CODE.

ADDITIONAL NOTES:

3. THE BUILDING IS UNSPRINKLERED

VICINITY MAP

BE REPAIRED AND CAPPED IN METAL, AND THE ROOF IS TO BE

AND DOWNSPOUTS. THE (E) LIGHTING AND ELECTRICAL IS TO BE

TRAYEL TO THE PLAYGROUND AND COMMUNITY CENTER IS TO BE

THERE IS NO PROPOSED INCREASE IN THE FOOTPRINT OF THE

2. THE RESTROOMS ARE UNHEATED AND NATURALLY VENTILATED WITH

4. HAZARDOUS MATERIAL ASBESTOS ASSESSMENT WAS CARRIED OUT

BY THE OWNER, AND NO ASBESTOS WAS IDENTIFIED AS PRESENT

AREA OF RESTROOM REMODEL: 422 SQ.FT.

TOTAL LOT COVERAGE = 0.2 % OF LOT

ALL CODES REFERENCED ARE TO BE USED AS AMENDED BY THE STATE OF CALIFORNIA AND LOCAL JURISDICTION.

2022 CALIFORNIA BUILDING CODE 2022 CALIFORNIA RESIDENTIAL CODE 2022 CALIFORNIA GREEN BUILDING CODE 2022 CALIFORNIA MECHANICAL CODE 2022 CALIFORNIA PLUMBING CODE 2022 CALIFORNIA FIRE CODE 2022 CALIFORNIA ELECTRICAL CODE

2022 CALIFORNIA ENERGY CODE, PART 6

TYPICAL MOUNTING HEIGHT

YERTICAL

WATER

WATER HEATER

THESE PLANS ARE IN COMPLIANCE WITH CALIFORNIA BUILDING AND FIRE CODES (2022 EDITION) AND SANTA CRUZ COUNTY AMENDMENTS

CA ENERGY COMPLIANCE TITLE 24 (BUILDING EXTERIOR) PANELBOARD SCHEDULES \$ DETAILS ELECTRICAL SITE PLAN

LIGHTING \$ ROOF

ELECTRICAL DETAILS

PROJECT TEAM

CITY OF CAPITOLA PUBLIC WORKS DEPARTMENT PROJECT MANAGER: JESSICA KAHN JKAHN@CI.CAPITOLA.CA.US 420 CAPITOLA AVENUE, CAPITOLA CA 95010 (831) 475 7300

ARCHITECT:

BOONE LOW RATLIFF ARCHITECTS, INC. PRINCIPAL ARCHITECT: MONICA RATLIFF MR@SANTACRUZGREENARCHITECTS.COM PROJECT ARCHITECT: KATE RHEIN, AIA KR@SANTACRUZGREENARCHITECTS.COM 2837 MISSION ST, SUITE 257 SANTA CRUZ, CA 95060 (831) 423-1316

PLUMBING ENGINEER:

COLEBREIT ENGINEERING PROJECT ENGINEER: KATE CONWAY KATE.CONWAY@COLEBREIT.COM 22 LOWER RAGSDALE DRIVE, SUITE A MONTEREY, CA 93940 (831) 641 7066

ELECTRICAL ENGINEER: AURUM CONSULTING ENGINEERS PROJECT ENGINEER: JOSHUA AUBLE JOSHUA@ACEMB.COM 404 W. FRANKLIN ST, SUITE 100 MONTEREY, CA 93940

(831) 646 3330

CIVIL ENGINEER

PROJECT SHEET INDEX

IFLAND ENGINEERS PROJECT ENGINEER: JACK SPURLOCK JSPURLOCK@IFLANDENGINEERS.COM 1509 SEABRIGHT AVENUE, SUITE A2 SANTA CRUZ, CA 95062 (831) 426 5313 ×.211

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C2.0	DETAIL9
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2837 MISSION ST | SANTA CRUZ CA 9506

THE ARCHITECT MUST BE NOTIFIED OF ANY DISCREPANCY IN DIMENSIONS, FIELD CONDITIONS OR OTHER INFORMATION THAT IS CONTAINED IN AND/OR DIFFERS FROM THESE DOCUMENTS.

THESE DOCUMENTS ARE THE PROPERTY OF THE ARCHITECT AND MAY NOT BE USED OR REPRODUCED WITHOUT WRITTEN CONSENT. THE ARCHITECT DISCLAIMS ANY RESPONSIBILITY RESULTING FROM UNAUTHORIZED

COPYRIGHT STARTS FROM THE DATE OF THE EARLIEST CONTRACT THROUGH CONSTRUCTION DOCUMENTS.

THE ABOVE DIMENSION DOES

NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING WILL HAVE BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES.				
BY	REVIS	IONS	DATE	
	DRAFT BUILDIN PERMIT	-	01/30/25	1 1
	BUILDIN PERMIT	-	06/20/25	
1	COMMENT RESPONSE SET		08/15/25	:
				1
Date	Date:		25	
Scale:		AS N	OTED	
Drawn:				
Job:				
Sheet				

301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7.

301.3 NONRESIDENTIAL ADDITIONS AND ALTERATIONS. [BSC-CG] The provisions of individual sections of Chapter 5 apply to newly constructed buildings, building additions of 1,000 square feet or greater, and/or building alterations with a permit valuation of \$200,000 or above (for occupancies within the authority of California Building Standards Commission). Code sections relevant to additions and alterations shall only apply to the portions of the building being added or altered within the scope of the

A code section will be designated by a banner to indicate where the code section only applies to newly constructed buildings [N] or to additions and/or alterations [A]. When the code section applies to both, no

301.3.1 Nonresidential additions and alterations that cause updates to plumbing fixtures only:

Note: On and after January 1, 2014, certain commercial real property, as defined in Civil Code Section 1101.3, shall have its noncompliant plumbing fixtures replaced with appropriate water-conserving plumbing fixtures under specific circumstances. See Civil Code Section 1101.1 et sea. for definitions. types of commercial real property affected, effective dates, circumstances necessitating

301.3.2 Waste Diversion. The requirements of Section 5.408 shall be required for additions and alterations whenever a permit is required for work.

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

SECTION 302 MIXED OCCUPANCY BUILDINGS

302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy.

replacement of noncompliant plumbing fixtures, and duties and responsibilities for

SECTION 303 PHASED PROJECTS

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

303.1.1 Initial Tenant improvements. The provisions of this code shall apply only to the initial tenant improvements to a project. Subsequent tenant improvements shall comply with the scoping provisions in Section 301.3 non-residential additions and alterations.

ABBREVIATION DEFINITIONS:

Department of Housing and Community Development California Building Standards Commission Division of the State Architect, Structural Safety Office of Statewide Health Planning and Development Low Rise High Rise

Additions and Alterations

NONRESIDENTIAL MANDATORY MEASURES

DIVISION 5.1 PLANNING AND DESIGN

SECTION 5.101 GENERAL

The provisions of this chapter outline planning, design and development methods that include environmentally responsible site selection, building design, building siting and development to protect, restore and enhance the environmental quality of the site and respect the integrity of adjacent properties.

SECTION 5.102 DEFINITIONS 5.102.1 DEFINITIONS

The following terms are defined in Chapter 2 (and are included here for reference)

CUTOFF LUMINAIRES. Luminaires whose light distribution is such that the candela per 1000 lamp lumens does not numerically exceed 25 (2.5 percent) at an angle of 90 degrees above nadir, and 100 (10 percent) at a vertical angle of 80 degrees above nadir. This applies to all lateral angles around the luminaire.

LOW-EMITTING AND FUEL EFFICIENT VEHICLES. Eligible vehicles are limited to the following:

1. Zero emission vehicle (ZEV), enhanced advanced technology PZEV (enhanced AT ZEV) or transitional zero emission vehicles (TZEV) regulated under CCR, Title 13, Section 1962. 2. High-efficiency vehicles, regulated by U.S. EPA, bearing a fuel economy and greenhouse gas rating od 9 oe 10 as regulated under 40 CFR Section 600 Subpart D.

NEIGHBORHOOD ELECTRIC VEHICLE (NEV). A motor vehicle that meets the definition of "low-speed vehicle" either in Section 385.5 of the Vehicle Code or in 49CFR571.500 (as it existed on July 1, 2000), and is certified to

TENANT-OCCUPANTS. Building occupants who inhabit a building during its normal hours of operation as permanent occupants, such as employees, as distinguished from customers and other transient visitors

VANPOOL VEHICLE. Eligible vehicles are limited to any motor vehicle, other than a motortruck or truck tractor, designed for carrying more than 10 but not more than 15 persons including the driver, which is maintained and used primarily for the nonprofit work-related transportation of adults for the purpose of ridesharing.

Note: Source: Vehicle Code, Division 1, Section 668 ZEV. Any vehicle certified to zero-emission standards

SECTION 5.106 SITE DEVELOPMENT

5.106.1 STORM WATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB LESS THAN ONE ACRE OF LAND. Newly constructed projects and additions which disturb less than one acre of land, and are not part of a larger common plan of development or sale, shall prevent the pollution of storm water runoff from the construction activities through one or more of the following measures:

5.106.1.1 Local ordinance. Comply with a lawfully enacted storm water management and/or erosion control

5.106.1.2 Best Management Practices (BMPs). Prevent the loss of soil through wind or water erosion by implementing an effective combination of erosion and sediment control and good housekeeping BMPs.

- 1. Soil loss BMPs that should be considered for implementation as appropriate for each project include, but are not limited to, the following:
- a. Scheduling construction activity during dry weather, when possible. b. Preservation of natural features, vegetation, soil, and buffers around surface waters.
- c. Drainage swales or lined ditches to control stormwater flow. d. Mulching or hydroseeding to stabilize disturbed soils.
- e. Erosion control to protect slopes. Protection of storm drain inlets (gravel bags or catch basin inserts).
- Perimeter sediment control (perimeter silt fence, fiber rolls). Sediment trap or sediment basin to retain sediment on site.
- Stabilized construction exits. Wind erosion control. . Other soil loss BMPs acceptable to the enforcing agency.
- 2. Good housekeeping BMPs to manage construction equipment, materials, non-stormwater discharges and wastes that should be considered for implementation as appropriate for each project include, but are not limited to, the following:
- Dewatering activities.
- b. Material handling and waste management. c. Building materials stockpile management.
- d. Management of washout areas (concrete, paints, stucco, etc.). Control of vehicle/equipment fueling to contractor's staging area.
- Vehicle and equipment cleaning performed off site. h. Other housekeeping BMPs acceptable to the enforcing agency.

LAND. Comply with all lawfully enacted stormwater discharge regulations for projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of a larger common plan of development sale.

5.106.2 STORMWATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB ONE OR MORE ACRES OF

Note: Projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of the larger common plan of development or sale must comply with the post-construction requirements detailed in the applicable National Pollutant Discharge Elimination System (NPDES) General permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities issued by the State Water Resources Control Board or the Lahontan Regional Water Quality Control Board (for projects in the Lake Tahoe Hydrologic Unit).

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

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

5.106.4 BICYCLE PARKING. For buildings within the authority of California Building Standards Commission as specified in Section 103, comply with Section 5.106.4.1. For buildings within the authority of the Division of the State Architect pursuant to Section 105, comply with Section 5.106.4.2

5.106.4.1 Bicycle parking. [BSC-CG] Comply with Sections 5.106.4.1.1 and 5.106.4.1.2; or meet the

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

5.106.4.1.2 Long-term bicycle parking. For new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5 percent of the tenant-occupant vehicular parking

spaces with a minimum of one bicycle parking facility. 5.106.4.1.3 For additions or alterations that add 10 or more tenant-occupant vehicular parking spaces, provide secure bicycle parking for 5 percent of the tenant vehicular parking spaces being added, with a

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

5.106.4.1.5 Acceptable bicycle parking facility for Sections 5.106.4.1.2, 5.106.4.1.3, and 5.106.4.1.4 shall be convenient from the street and shall meet one of the following:

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

Note: Additional information on recommended bicycle accommodations may be obtained from Sacramento Area Bicvcle Advocates.

5.106.4.2 Bicycle parking. [DSA-SS] For public schools and community colleges, comply with Sections

5.106.4.2.1 Student bicycle parking. Provide permanently anchored bicycle racks conveniently accessed with a minimum of four two-bike capacity racks per new building 5.106.4.2.2 Staff bicycle parking. Provide permanent, secure bicycle parking conveniently accessed with a minimum of two staff bicycle parking spaces per new building. Acceptable bicycle parking facilities

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

shall be convenient from the street or staff parking area and shall meet one of the following:

5.106.5.3 Electric vehicle (EV) charging. [N] Construction to provide electric vehicle infrastructure and facilitate electric vehicle charging shall comply with Section 5.106.5.3.1 and shall be provided in accordance with regulations in the California Building Code and the California Electrical Code.

- 1. On a case-by-case basis where the local enforcing agency has determined compliance with
- this section is not feasible based upon one of the following conditions: a. Where there is no local utility power supply
- b. Where the local utility is unable to supply adequate power Where there is evidence suitable to the local enforcement agency substantiating the local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.
- 2. Parking spaces accessible only by automated mechanical car parking systems are not required to comply with this code section

5.106.5.3.1 EV capable spaces.

minimum of one bicycle parking facility.

- [N] EV capable spaces shall be provided in accordance with Table 5.106.5.3.1 and the following
- 1. Raceways complying with the California Electrical Code and no less that 1-inch (25 mm) diameter shall be provided and shall originate at a service panel or a subpanel(s) serving the area, and shall terminate in close proximity to the proposed location of the EV capable and into a suitable listed cabinet, box,enclosure or equivalent. A common raceway may be used to serve multiple EV charging spaces.
- 2. A service panel or subpanel (s) shall be provided with panel space and electrical load capacity for a dedicated 208/240 volt, 40-ampere minimum branch circuit for each EV capable space, with delivery of 30-ampere minimum to an installed EVSE at each EVCS.
- 3. The electrical system and any on-site distribution transformers shall have sufficient capacity to supply full rated amperage at each EV capable space.
- 4. The service panel or subpanel circuit directory shall identify the reserved overcurrent protective devices space(s) as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE."

Note: A parking space served by electric vehicle supply equipment or designed as a future EV charging space shall count as at least one standard automobile parking space only for the purpose of complying with any applicable minimum parking space requirements established by an enforcement agency. See vehicle Code Section 22511.2 for further details.

TABLE 5.106.5.3.1		
TOTAL NUMBER OF ACTUAL PARKING SPACES	NUMBER OF REQUIRED EV CAPABLE SPACES	NUMBER OF EVCS (EV CAPABLE SPACES PROVIDED WITH EVSE)^2
0-9	0	0
10-25	2	0
26-50	8	2
51-75	13	3
76-100	17	4
101-150	25	6
151-200	35	9
201 AND OVER	20% of total ¹	25% of EV capable spaces ¹

1. Where there is insufficient electrical supply. 2. The number of required EVCS (EV capable spaces provided with EVSE) in column 3 count towards the total number of required EV capable spaces shown in column 2.

5.106.5.3.2 Electric vehicle charging stations (EVCS) EV capable spaces shall be provided with EVSE to create EVCS in the number indicated in Table

accumulatively supplied to the EV charger.

Level 2 and Direct Current Fast Charging (DCFC), except that at least one Level 2 EVSE shall be One EV charger with multiple connectors capable of charging multiple EVs simultaneously shall be permitted if the electrical load capacity required by Section 5.106.5.3.1 for each EV capable space is

5.106.5.3.1. The EVCS required by Table 5.106.5.3.1 may be provided with EVSE in any combination of

The installation of each DCFC EVSE shall be permitted to reduce the minimum number of required EV capable spaces without EVSE by five and reduce proportionally the required electrical load capacity to the service panel or subpanel

5.106.5.3.3 Use of automatic load management systems (ALMS). ALMS shall be permitted for EVCS. When ALMS is installed, the required electrical load capacity

5.106.5.3.1 for each EVCS may be reduced when serviced by an EVSE controlled by an ALMS. Each EVSE controlled by an ALMS shall deliver a minimum 30 amperes to an EV when charging one vehicle and shall deliver a minimum 3.3 kW while simultaneously charging multiple EVs.

5.106.5.3.4 Accessible EVCS.

When EVSE is installed, accessible EVSC shall be provided in accordance with the California Building Code, Chapter 11B, Section 11B-228.3. Note: For EVCS signs, refer to Caltrans Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Markings) or its successor(s).

5.106.5.4 Electric Vehicle (EV) charging: medium-duty and heavy-duty. [N]Construction shall comply with section 5.106.5.4.1 to facilitate future installation of electric vehicle supply

equipment (EVSE). Construction for warehouses, grocery stores and retail stores with planned off-street loading spaces shall also comply with Section 5.106.5.4.1 for future installation of medium- and heavy-duty EVSE.

> 1. On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions: a. Where there is no local utility power supply.

b. Where the local utility is unable to supply adequate power

c. Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project. When EVSE(s) is/are installed, it shall be in accordance with the California Building Code, the California

5.106.5.4.1 Electric vehicle charging readiness requirements for warehouse, grocery stores and retail stores with planned off-street loading spaces. [N] In order to avoid future demolition when adding EV charging supply and distribution equipment, spare

raceways(s) or busway(s) and adequate capacity for transformers(s), service panels(s) or subpanel(s) shall be installed at the time of construction in accordance with the California Electrical Code. Construction plans and specifications shall include but are not limited to, the following: 1. The transformer, main service equipment and subpanel shall meet the minimum power

requirement in Table 5.106.5.4.1 to accommodate the dedicated branch circuits for the future 2. The construction documents shall indicate on or more location(s) convenient to the planned offstreet loading space(s) reserved for medium-and heavy-duty ZEV charging cabinets and charging dispensers, and a pathway reserved for routing of conduit from the termination of the

raceway(s) or busway(s) to the charging cabinet(s) and dispenser(s) as shown in Table 3. Raceway(s) or busway(s) originating at a main service panel or a subpanel(s) serving the area where potential future medium-and heavy-duty EVSE will be located and shall terminate in close proximity to the potential future location of the charging equipments for medium- and heavy-duty

4. The raceway(s) or busway(s) shall be sufficient size to carry the minimum additional system load to the future location of the charging for medium- and heavy-duty ZEVs as shown in Table

TABLE 5.106.5.4.1 RACEWAY CONDUIT AND PANEL POWER REQUIREMENTS FOR MEDIUM- AND HEAVY-DUTY EVSE [N]

BUILDING TYPE	BUILDING SIZE (SQ. FT.)	NUMBER OF OFF-STREET LOADING SPACES	ADDITIONAL CAPACITY REQUIRED (KVA) FOR RACEWAY & BUSWAY AND TRANSFORMER & PANEL
	10,000 to 90,000	1 or 2	200
Grocery	10,000 to 90,000	3 or Greater	400
	Greater than 90,000	1 or Greater	400
	10,000 to 135,000	1 or 2	200
Retail	10,000 to 135,000	3 or Greater	400
	Greater than 135,000	1 or Greater	400
		1 or 2	200
Warehouse	20,000 to 256,000	3 or Greater	400
	Greater than 256,000	1 or Greater	400

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

- 1. The minimum requirements in the California Energy Code for Lighting Zones 0-4 as defined in Chapter 10,
- Section 10-114 of the California Administrative Code; and 2. Backlight (B) ratings as defined in IES TM-15-11 (shown in Table A-1 in Chapter 8); 3. Uplight and Glare ratings as defined in California Energy Code (shown in Tables 130.2-A and 130.2-B in
- 4. Allowable BUG ratings not exceeding those shown in Table 5.106.8, [N] or Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent.

Exceptions: [N]

- 1. Luminaires that qualify as exceptions in Sections 130.2 (b) and 140.7 of the California Energy Code.
- Building facade meeting the requirements in Table 140.7-B of the California Energy Code. Part 6. 4. Custom lighting features as allowed by the local enforcing agency, as permitted by Section 101.8
- Alternate materials, designs and methods of construction. 5. Luminaires with less than 6,200 initial luminaire lumens.

TABLE 5.106.8 [N] MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT AND GLARE (BUG) RATINGS 1,2					
ALLOWABLE RATING	LIGHTING ZONE LZ0	LIGHTING ZONE LZ1	LIGHTING ZONE LZ2	LIGHTING ZONE LZ3	LIGHTING ZONE LZ4
MAXIMUM ALLOWABLE BACKLIGHT RATING 3					
Luminaire greater than 2 mounting heights (MH) from property line	N/A	No Limit	No Limit	No Limit	No Limit
Luminaire back hemisphere is 1-2 MH from property line	N/A	B2	В3	B4	B4
Luminaire back hemisphere is 0.5-1 MH from property line	N/A	B1	B2	В3	В3
Luminaire back hemisphere is less than 0.5 MH from property line	N/A	В0	В0	B1	B2
MAXIMUM ALLOWABLE UPLIGHT RATING (U)					
For area lighting 3	N/A	U0	U0	U0	U0
For all other outdoor lighting,including decorative luminaires	N/A	U1	U2	U3	UR

XIMUM ALLOWABLE ARE RATING 5 (G)					
XIMUM ALLOWABLE ARE RATING 5 (G)	N/A	G1	G2	G3	G4
XIMUM ALLOWABLE ARE RATING 5 (G)	N/A	G0	G1	G1	G2
XIMUM ALLOWABLE ARE RATING 5 (G)	N/A	G0	G0	G1	G1
XIMUM ALLOWABLE ARE RATING 5 (G)	N/A	G0	G0	G0	G1
IESNA Lighting Zones 0 and 5 are not applicable; refer to Lighting Zones as defined in the California Energy					

1. IESNA Lighting Zones 0 and 5 are not applicable; refer to Lighting Zones as defined in the California Energy Code and Chapter 10 of the Callifornia Administrative Code.

2. For property lines that abut public walkways, bikeways, plazas and parking lots, the property line may be considered to be 5 feet beyond the actual property line for purpose of determining compliance with this section. For property lines that abut public roadways and public transit corridors, the property line may be considered to be the centerline of the public roadway or public transit corridor for the purpose of determining compliance with this

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

5.106.8.1 Facing- Backlight

Luminaries within 2MH of a property line shall be oriented so that the nearest property line is behind the fixture, and shall comply with the backlight rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point of that property line.

Exception: Corners. If two property lines (or two segments of the same property line) have equidistant point to the luminaire, then the luminaire may be oriented so that the intersection of the two lines (the corner) is directly behind the luminaire. The luminaire shall still use the distance to the nearest points(s) on the property lines to determine the required backlight rating.

For luminaires covered by 5.106.8.1, if a property line also exists within or extends into the front hemisphere within 2MH of the luminaire then the luminaire shall comply with the more stringent glare rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point on the nearest property line within the front

1.See also California Building Code, Chapter 12, Section 1205.6 for college campus lighting requirements for parking facilities and walkways. 2.Refer to Chapter 8 (Compliance Forms, Worksheets and Reference Material) for IES TM-15-11 Table

A-1, California Energy Code Tables 130.2-A and 130.2-B. 3. Refer to the California Building Code for requirements for additions and alterations. **5.106.10 GRADING AND PAVING.** Construction plans shall indicate how site grading or a drainage system will

manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface

Water collection and disposal systems.

water include, but are not limited to, the following:

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

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

5.106.12.1 Surface parking areas. Shade tree plantings, minimum #10 container size or equal, shall be installed to provide shade over 50 percent of the parking area within 15 years. **Exceptions:** Surface parking area covered by solar photovoltaic shade structures with roofing

materials that comply with Table A5.106.11.2.2 in Appendix A5 shall be permitted in whole or in part in lieu of shade tree planting. **5.106.12.2 Landscape areas.** Shade tress plantings, minimum #10 container size or equal shall be installed to

provide shade of 20% of the landscape area within 15 years. **Exceptions:** Playfields for organized sport activity are not included in the total area calculation

provide shade over 20 percent of the hardscape area within 15 years. 1. Walks, hardscape areas covered by solar photovoltaic shade structures or shade structures with roofing

5.106.12.3. Hardscape areas. Shade tree plantings, minimum #10 container size or equal shall be installed to

materials that comply with Table A5.106.11.2.2 in Appendix A5 shall be permitted in whole or in part in lieu 2. Designated and marked play areas of organized sport activity are not included in the total area calculation.

DIVISION 5.2 ENERGY EFFICIENCY

SECTION 5.201 GENERAL

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

DIVISION 5.3 WATER EFFICIENCY AND CONSERVATION

SECTION 5.301 GENERAL

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

SECTION 5.302 DEFINITIONS 5.302.1 Definitions. The following terms are defined in Chapter 2 (and are included here for reference) EVAPOTRANSPIRATION ADJUSTMENT FACTOR (ETAF) [DSA-SS]. An adjustment factor when applied to

reference evapotranspiration that adjusts for plant factors and irrigation efficiency, which ae two major influences on

the amount of water that needs to be applied to the landscape. FOOTPRINT AREA [DSA-SS]. The total area of the furthest exterior wall of the structure projected to natural grade, not including exterior areas such as stairs, covered walkways, patios and decks.

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

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

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

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). [HCD] The California model ordinance

(California Code of Regulations, Title 23, Division 2, Chapter 2.7), regulating landscape design, installation and maintenance practices. Local agencies are required to adopt the updated MWELO, or adopt a local ordinance at least POTABLE WATER. Water that is drinkable and meets the U.S. Environmental Protection Agency (EPA) Drinking

Water Standards. See definition in the California Plumbing Code, Part 5. POTABLE WATER. [HCD] Water that is satisfactory for drinking, culinary, and domestic purposes, and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards and the requirements of the Health Authority

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

SUBMETER. [HCD 1] A secondary device beyond a meter that measures water consumption of an individual rental

unit within a multiunit residential structure or mixed-use residential and commercial structure. (See Civic Code Section

1954.202 (g) and Water code Section 517 for additional details.) WATER BUDGET. Is the estimated total landscape irrigation water use which shall not exceed the maximum applied water allowance calculated in accordance with the Department of Water Resources Model Efficient Landscape

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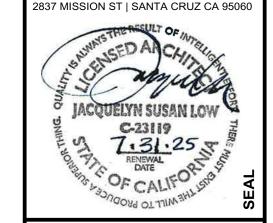
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SECTION 5.303 INDOOR WATER USE 5.303.1 METERS. Separate submeters or metering devices shall be installed for the uses described in Sections

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

- 1. For each individual leased, rented or other tenant space within the building projected to consume more than 100 gal/day (380 L/day), including, but not limited to, spaces used for laundry or cleaners, restaurant or food service, medical or dental office, laboratory, or beauty salon or barber shop.
- 2. Where separate submeters for individual building tenants are unfeasible, for water supplied to the following subsystems
- a. Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s). Makeup water for evaporative coolers greater than 6 gpm (0.04 L/s). c. Steam and hot water boilers with energy input more than 500,000 Btu/h (147 kW).

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

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

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

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

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

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

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

5.303.3.3.2 Multiple showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time. Note: A hand-held shower shall be considered a showerhead.

5.303.3.4 Faucets and fountains.

5.303.3.4.1 Nonresidential Lavatory faucets. Lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi.

5.303.3.4.2 Kitchen faucets. Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons

5.303.3.4.3 Wash fountains. Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute/20 [rim space (inches) at 60 psi].

5.303.3.4.4 Metering faucets. Metering faucets shall not deliver more than 0.20 gallons per cycle. **5.303.3.4.5 Metering faucets for wash fountains.** Metering faucets for wash fountains shall have a

maximum flow rate of not more than 0.20 gallons per minute/20 [rim space (inches) at 60 psi]. Note: Where complying faucets are unavailable, aerators or other means may be used to achieve

5.303.3.4.6 Pre-rinse spray value When installed, shall meet the requirements in the California Code of Regulations, Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) Table H-2, Section 1605.3 (h)(4)(A), and Section 1607 (d)(7), and shall be equipped with an integral automatic shutoff.

FOR REFERENCE ONLY: The following table and code section have been reprinted from the California Code of Regulations, Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) and Section

TABLE H-2		
STANDARDS FOR COMMERCIAL PRE-RINSE SPRAY VALUES MANUFACTURED ON OR AFTER JANUARY 28, 2019		
PRODUCT CLASS [spray force in ounce force (ozf)] MAXIMUM FLOW RATE (gpm)		
Product Class 1 (≤ 5.0 ozf)	1.00	
Product Class 2 (> 5.0 ozf and ≤ 8.0 ozf) 1.20		
Product Class 3 (> 8.0 ozf) 1.28		

5.303.4 COMMERCIAL KITCHEN EQUIPMENT.

5.303.4.1 Food Waste Disposers. Disposers shall either modulate the use of water to no more than 1 gpm when the disposer is not in use (not actively grinding food waste/no-load) or shall automatically shut off after no more than 10 minutes of inactivity. Disposers shall use no more than 8 gpm of water. Note: This code section does not affect local jurisdiction authority to prohibit or require disposer

5.303.5 AREAS OF ADDITION OR ALTERATION. For those occupancies within the authority of the California Building Standards Commission as specified in Section 103, the provisions of Section 5.303.3 and 5.303.4 shall apply to new fixtures in additions or areas of alteration to the building.

5.303.6 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures and fittings shall be installed in accordance with the California Plumbing Code, and shall meet the applicable standards referenced in Table 1701.1 of the California Plumbing Code and in Chapter 6 of this code.

SECTION 5.304 OUTDOOR WATER USE

https://www.water.ca.gov/.

5.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent.

1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code of Regulations, Title 23, Chapter 2.7, Division 2. 2. MWELO and supporting documents, including a water budget calculator, are available at:

5.304.6 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. For public schools and community colleges, landscape projects as described in Sections 5.304.6.1 and 5.304.6.2 shall comply with the California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 490 of Chapter 2.7, Division 2, Title 23, California Code of Regulations, except that the evapotranspiration adjustment factor (ETAF) shall be 0.65 with an additional water allowance for special landscape areas (SLA) of 0.35.

Exception: Any project with an aggregate landscape area of 2,500 square feet or less may comply with the prescriptive measures contained in Appendix D of the MWELO.

5.304.6.1 Newly constructed landscapes. New construction projects with an aggregate landscape area equal to or greater than 500 square feet.

5.304.6.2 Rehabilitated landscapes. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 1,200 square feet.

DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE

SECTION 5.401 GENERAL

5.401.1 SCOPE. The provisions of this chapter shall outline means of achieving material conservation and resource efficiency through protection of buildings from exterior moisture, construction waste diversion, employment of techniques to reduce pollution through recycling of materials, and building commissioning or testing and adjusting.

SECTION 5.402 DEFINITIONS

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

ADJUST. To regulate fluid flow rate and air patterns at the terminal equipment, such as to reduce fan speed or adjust

soiled paper waste that is mixed in with food waste.

TEST. A procedure to determine quantitative performance of a system or equipment

SECTION 5.407 WATER RESISTANCE AND MOISTURE MANAGEMENT 5.407.1 WEATHER PROTECTION. Provide a weather-resistant exterior wall and foundation envelope as required by California Building Code Section 1402.2 (Weather Protection), manufacturer's installation instructions or local ordinance, whichever is more stringent.

5.407.2 MOISTURE CONTROL. Employ moisture control measures by the following methods.

5.407.2.1 Sprinklers. Design and maintain landscape irrigation systems to prevent spray on structures.

5.407.2.2 Entries and openings. Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings as follows:

5.407.2.2.1 Exterior door protection. Primary exterior entries shall be covered to prevent water 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:

- An installed awning at least 4 feet in depth. 2. The door is protected by a roof overhang at least 4 feet in depth.
- The door is recessed at least 4 feet. 4. Other methods which provide equivalent protection.

SECTION 5.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND

non-hazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent.

5.408.1.1 Construction waste management plan. Where a local jurisdiction does not have a construction and demolition waste management ordinance, submit a construction waste management plan that:

- 1. Identifies the construction and demolition waste materials to be diverted from disposal by efficient
- usage, recycling, reuse on the project or salvage for future use or sale. 2. Determines if construction and demolition waste materials will be sorted on-site (source-separated) or
- bulk mixed (single stream). 3. Identifies diversion facilities where construction and demolition waste material collected will be taken.

5.408.1.2 Waste Management Company. Utilize a waste management company that can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill

Note: The owner or contractor shall make the determination if the construction and demolition waste material

- Excavated soil and land-clearing debris.
- 2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist. 3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities

not exceed two pounds per square foot of building area may be deemed to meet the 65% minimum requirement as approved by the enforcing agency.

- located www.dgs.ca.gov/BSC/Resources/Page-Content/Building-Standards-Commission-
- 2. Mixed construction and demolition debris processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).

5.408.2 UNIVERSAL WASTE. [A] Additions and alterations to a building or tenant space that meet the scoping provisions in Section 301.3 for nonresidential additions and alterations, shall require verification that Universal Waste tems such as fluorescent lamps and ballast and mercury containing thermostats as well as other California prohibited Universal Waste materials are disposed of properly and are diverted from landfills. A list of prohibited Universal Waste materials shall be included in the construction documents.

5.408.3 EXCAVATED SOIL AND LAND CLEARING DEBRIS. 100 percent of trees, stumps, rocks and associated regetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed.

Exception: Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation.

1. If contamination by disease or pest infestation is suspected, contact the County Agricultural Commissioner and follow its direction for recycling or disposal of the material. 2. For a map of know pest and/or disease quarantine zones, consult with the California Department of

Food and Agriculture. (www.cdfa.ca.gov)

SECTION 5.410 BUILDING MAINTENANCE AND OPERATIONS **5.410.1 RECYCLING BY OCCUPANTS.** Provide readily accessible areas that serve the entire building and are

identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling

Code 42649.82 (a)(2)(A) et seq. shall also be exempt from the organic waste portion of this section. 5.410.1.1 Additions. All additions conducted within a 12-month period under single or multiple permits,

resulting in an increase of 30% or more in floor area, shall provide recycling areas on site.

5.410.1.2 Sample ordinance. Space allocation for recycling areas shall comply with Chapter 18, Part 3, Division 30 of the Public Resources Code. Chapter 18 is known as the California Solid Waste Reuse and Recycling Access Act of 1991 (Act).

Note: A sample ordinance for use by local agencies may be found in Appendix A of the document at the

5.410.2 COMMISSIONING. [N] New buildings 10,000 square feet and over. For new buildings 10,000 square feet and over, building commissioning shall be included in the design and construction processes of the building project to 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 on projects of comparable size and complexity. For I-occupancies that are not regulated by OSHPD or for I-occupancies and L-occupancies that are not regulated y the California Energy Code Section 100.0 Scope, all requirements in Sections 5.410.2 through 5.410.2.6 shall apply.

Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting systems and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements

Commissioning measures shown in the construction documents. Commissioning plan Functional performance testing

Exceptions:

Commissioning report.

Documentation and training

- 1. Unconditioned warehouses of any size.
- 2. Areas less than 10,000 square feet used for offices or other conditioned accessory spaces within unconditioned warehouses
- 3. Tenant improvements less than 10,000 square feet as described in Section 303.1.1. 4. Open parking garages of any size, or open parking garage areas, of any size, within a structure.

Note: For the purposes of this section, unconditioned shall mean a building, area, or room which does not provide heating and or air conditioning.

Informational Notes

1. IAS AC 476 is an accreditation criteria for organizations providing training and/or certification of commissioning personnel. AC 476 is available to the Authority Having Jurisdiction as a reference for qualifications of commissioning personnel. AC 476 des not certify individuals to conduct functional performance tests or to adjust and balance systems.

2. Functional performance testing for heating, ventilation, air conditioning systems and lighting controls must be performed in compliance with the California Energy Code.

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 project begins. This documentation shall include the following:

- 1. Environmental and sustainability goals.
- Building sustainable goals. 3. Indoor environmental quality requirements.
- 4. Project program, including facility functions and hours of operation, and need for after hours 5. Equipment and systems expectations.

6. Building occupant and operation and maintenance (O&M) personnel expectations. 5.410.2.2 Basis of Design (BOD). [N] A written explanation of how the design of the building systems meets

- the OPR shall be completed at the design phase of the building project. The Basis of Design document shall cover the following systems:
- 1. Renewable energy systems. 2. Landscape irrigation systems. Water reuse system.

commissioning shall be included.

5.410.2.3 Commissioning plan. [N] Prior to permit issuance a commissioning plan shall be completed to document how the project will be commissioned. The commissioning plan shall include the following:

- General project information. 2. Commissioning goals. 3. Systems to be commissioned. Plans to test systems and components shall include:
- a. An explanation of the original design intent. b. Equipment and systems to be tested, including the extent of tests.
- c. Functions to be tested. d Conditions under which the test shall be performe.
- e. Measurable criteria for acceptable performance. Commissioning team information. 5. Commissioning process activities, schedules and responsibilities. Plans for the completion of

5.410.2.4 Functional performance testing. [N] Functional performance tests shall demonstrate the correct installation and operation of each component, system and system-to-system interface in accordance with the approved plans and specifications. Functional performance testing reports shall contain information addressing each of the building components tested, the testing methods utilized, and include any readings and adjustments

5.410.2.5 Documentation and training. [N] A Systems Manual and Systems Operations Training are required, including Occupational Safety and Health Act (OSHA) requirements in California Code of Regulations (CCR),

Title 8, Section 5142, and other related regulations. **5.410.2.5.1 Systems manual. [N]** Documentation of the operational aspects of the building shall be completed within the systems manual and delivered to the building owner or representative. The

- systems manual shall include the following: 1. Site information, including facility description, history and current requirements.
- 2. Site contact information.
- 3. Basic operations and maintenance, including general site operating procedures, basic troubleshooting, recommended maintenance requirements, site events log. Major systems.
- 5. Site equipment inventory and maintenance notes. 6. A copy of verifications required by the enforcing agency or this code.
- 7. Other resources and documentation, if applicable. **5.410.2.5.2 Systems operations training. [N]** A program for training of the appropriate maintenance staff for each equipment type and/or system shall be developed and documented in the commissioning
- report and shall include the following: 1. System/equipment overview (what it is, what it does and with what other systems and/or
- equipment it interfaces). 2. Review and demonstration of servicing/preventive maintenance.
- 3. Review of the information in the Systems Manual. 4. Review of the record drawings on the system/equipment.

5.410.2.6 Commissioning report. [N] A report of commissioning process activities undertaken through the design and construction phases of the building project shall be completed and provided to the owner or

5.410.4 TESTING AND ADJUSTING. New buildings less than 10,000 square feet. Testing and adjusting of systems shall be required for new buildings less than 10,000 square feet or new systems to serve an addition or alteration subject to Section 303.1.

5.410.4.2 (Reserved)

Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting system and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements and Sections 120.5, 120.6, 130.4, and 140.9(b)3 for additional testing requirements of specific

5.410.4.2 Systems. Develop a written plan of procedures for testing and adjusting systems. Systems to be included for testing and adjusting shall include at a minimum, as applicable to the project:

- 1. Renewable energy systems. 2. Landscape irrigation systems.
- Water reuse systems. 5.410.4.3 Procedures. Perform testing and adjusting procedures in accordance with manufacturer's specifications and applicable standards on each system.

5.410.4.3.1 HVAC balancing. In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, the system shall be balanced in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards; the National Environmental Balancing Bureau Procedural Standards; Associated Air Balance Council National Standards or as approved by the enforcing agency.

5.410.4.4 Reporting. After completion of testing, adjusting and balancing, provide a final report of testing signed by the individual responsible for performing these services.

5.410.4.5 Operation and maintenance (O & M) manual. Provide the building owner or representative with detailed operating and maintenance instructions and copies of guaranties/warranties for each system. O & M instructions shall be consistent with OSHA requirements in CCR. Title 8. Section 5142, and other related

5.410.4.5.1 Inspections and reports. Include a copy of all inspection verifications and reports required by the enforcing agency.

DIVISION 5.5 ENVIRONMENTAL QUALITY

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

SECTION 5.502 DEFINITIONS **5.502.1 DEFINITIONS.** The following terms are defined in Chapter 2 (and are included here for reference)

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

1 BTU/HOUR. British thermal units per hour, also referred to as Btu. The amount of heat required to raise one pound of water one degree Fahrenheit per hour, a common measure of heat transfer rate. A ton of refrigeration is 12 000 Btu the amount of heat required to melt a ton (2,000 pounds) of ice at 320 Fahrenheit.

COMMUNITY NOISE EQUIVALENT LEVEL (CNEL). A metric similar to the day-night average sound level (Ldn),

to 10pm) in addition to the 10 dB nighttime adjustment used in the Ldn. COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, timber, prefabricated wood I-joists or

except that a 5 decibel adjustment is added to the equivalent continuous sound exposure level for evening hours (7pm

finger-jointed lumber, all as specified in California Code of Regulations (CCR), Title 17, Section 93120.1(a). Note: See CCR, Title 17, Section 93120.1.

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

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

ELECTRIC VEHICLE (EV). An automotive-type vehicle for on-road use, such as passenger automobiles, buses, trucks, vans, neighborhood electric vehicles, electric motorcycles, and the like, primarily powered by an electric motor that draws current from a rechargeable storage battery, fuel cell, photovoltaic array, or other source of electric current. Plug-in hybrid electric vehicles (PHEV) are considered electric vehicles. For purposes of the California Electrical Code off-road, self-propoelled electric vehicles, such as industrial trucks, hoists, lifts, transports, golf carts, airline ground support equipment, tractors, boats, and the like, are not included. ELECTRIC VEHICLE CHARGING STATION(S) (EVCSj). One or more spaces intended for charging electric vehicles.

power outlets, or apparatus installed specifically for the purpose of transferring energy between the premises wiring ENERGY EQUIVALENT (NOISE) LEVEL (Leg). The level of a steady noise which would have the same energy as

ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE). The conductors, including the ungrounded, grounded, and

equipment grounding conductors and the electric vehicle connectors, attachment plugs, and all other fittings, devices,

EXPRESSWAY. An arterial highway for through traffic which may have partial control of access, but which may or may not be divided or have grade separations at intersections.

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

the fluctuating noise level integrated over the time of period of interest.

GLOBAL WARMING POTENTIAL (GWP). The radiative forcing impact of one mass-based unit of a given greenhouse gas relative to an equivalent unit of carbon dioxide over a given period of time. Carbon dioxide is the reference compound with a GWP of one. GLOBAL WARMING POTENTIAL VALUE (GWP VALUE). A 100-year GWP value published by the Intergovernmental Panel on Climate Change (IPCC) in either its Second Assessment Report (SAR) (IPCC, 1995); or

its Fourth Assessment A-3 Report (AR4) (IPCC, 2007). The SAR GWP values are found in column "SAR (100-yr)" of Table 2.14.; the AR4 GWP values are found in column "100 yr" of Table 2.14. HIGH-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that is: (a) a chlorofluorocarbon, a hdrochlorofluorocarbon, a hydrofluorocarbon, a perfluorocarbon, or any compound or blend of compounds, with a

GWP value equal to or greater than 150, or (B) any ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009). LONG RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction,

with a radius 1.5 times the pipe diameter. LOW-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that: (A) has a GWP value less than 150, and (B) is not an ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009).

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

MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a compound to the "Base REactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundreths of a gram (g O³/g ROC). PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for all ingredients in a product subject to this

article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of product (excluding container and packaging).

SCHRADER ACCESS VALVES. Access fittings with a valve core installed.

PSIG. Pounds per square inch, guage. REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to

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 SUPERMARKET. For the purposes of Section 5.508.2, a supermarket is any retail food facility with 8,000 square feet

or more conditioned area, and that utilizes either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units. VOC. A volatile organic compound broadly defined as a chemical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a)

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.

5.503.1 FIREPLACES. Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed

woodstove or pellet stove, and refer to residential requirements in the California Energy Code, Title 24, Part 6, Subchapter 7, Section 150. Woodstoves, pellet stoves and fireplaces shall comply with applicable local ordinances. **5.503.1.1 Woodstoves.** Woodstoves and pellet stoves shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified

SECTION 5.504 POLLUTANT CONTROL

to meet the emission limits.

5.504.1 TEMPORARY VENTILATION. The permanent HVAC system shall only be used during construction if 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 Minimum Efficiency Reporting Value (MERV) of 8, based on ASHRAE 52.2-1999, or an average efficiency of 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.

5.504.3 Covering of duct openings and protection of mechanical equipment during construction. At the time of rough installation and during storage on the construction site until final startup of the heating, cooling and ventilation equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which

BALANCE. To proportion flows within the distribution system, including sub-mains, branches and terminals, according to design quantities. Commissioning requirements shall include BUILDING COMMISSIONING. A systematic quality assurance process that spans the entire design and construction process, including verifying and documenting that building systems and components are planned, designed, installed, Owner's or Owner representative's project requirements. tested, operated and maintained to meet the owner's project requirements. Basis of design. ORGANIC WASTE. Food waste, green waste, landscape and pruning wste, nonhazardous wood waste, and food

5.407.2.2.2 Flashing. Install flashings integrated with a drainage plane.

5.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 65% of the

4. Specifies that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.

complies with this section.

will be diverted by a waste management company.

5.408.1.3 Waste stream reduction alternative. The combined weight of new construction disposal that does

5.408.1.4 Documentation. Documentation shall be provided to the enforcing agency which demonstrates compliance with Sections 5.408.1.1, through 5.408.1.3. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by the enforcing agency.

1. Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" Resources-List-Folder/CALGreen may be used to assist in documenting compliance with the waste

Note: Refer to the Universal Waste Rule link at: http://www.dtsc.ca.gov/universalwaste/

Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources

Exception: Additions within a tenant space resulting in less than a 30% increase in the tenant space

2837 MISSION ST I SANTA CRUZ CA 9506

─1" ACTUAL — THE ABOVE DIMENSION DO

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EXACTLY, THIS DRAWING WILL HA BEEN ENLARGED OR REDUCE FECTING ALL LABELED SCALES. REVISIONS DATE UII DING **ERMIT SET** UILDING ERMIT SET COMMENT RESPONSE

8/12/25 AS NOTED

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

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 products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for 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

Less Water and Less Exempt Compounds in Grams per Liter	-
ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT
INDOOR CARPET ADHESIVES	50
CARPET PAD ADHESIVES	50
OUTDOOR CARPET ADHESIVES	150
WOOD FLOORING ADHESIVES	100
RUBBER FLOOR ADHESIVES	60
SUBFLOOR ADHESIVES	50
CERAMIC TILE ADHESIVES	65
VCT & ASPHALT TILE ADHESIVES	50
DRYWALL & PANEL ADHESIVES	50
COVE BASE ADHESIVES	50
MULTIPURPOSE CONSTRUCTION ADHESIVES	70
STRUCTURAL GLAZING ADHESIVES	100
SINGLE-PLY ROOF MEMBRANE ADHESIVES	250
OTHER ADHESIVES NOT SPECIFICALLY LISTED	50
SPECIALTY APPLICATIONS	
PVC WELDING	510
CPVC WELDING	490
ABS WELDING	325
PLASTIC CEMENT WELDING	250
ADHESIVE PRIMER FOR PLASTIC	550
CONTACT ADHESIVE	80
SPECIAL PURPOSE CONTACT ADHESIVE	250
STRUCTURAL WOOD MEMBER ADHESIVE	140
TOP & TRIM ADHESIVE	250
SUBSTRATE SPECIFIC APPLICATIONS	
METAL TO METAL	30
PLASTIC FOAMS	50
POROUS MATERIAL (EXCEPT WOOD)	50
WOOD	30
FIBERGLASS	80

1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE

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

WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.

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

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

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

1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS

2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN 3 VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD.

ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.

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 the requirements of 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 1.2, January 2017 (Emission testing method for California

See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.4.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of 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 1.2, January 2017 (Emission testing method for California Specifications

See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

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:

. Product certifications and specifications. Chain of custody certifications.

Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et 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

5. Other methods acceptable to the enforcing agency.

TABLE 5.504.4.5 - FORMALDEHYDE LIMITS ₁			
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	0.13		

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 93120.12. 2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16 INCHES (8 MM).

5.504.4.6 Resilient flooring systems. Where resilient flooring is installed, at least 80 percent of floor area receiving resilient flooring shall meet the requirements of 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 1.2, January 2017 (Emission testing method for California Specifications

See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

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

5.504.4.7 Thermal insulation

Comply with the requirements of the California Department of Public Health, "Standard Method of the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, "Version 1.2, January 1.2, January 2017 (Emission testing method for California Specification 01350). See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.7.1 Verification of compliance. Documentation shall be provided verifying that thermal insulation materials meet the pollutant emission

5.504.4.8 Acoustical ceiling and wall panels. Comply with the requirements of 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 1.2, January 2017 (Emission testing method for California Specification 01350). See California Department of Public Health's website for certification programs and testing labs

5.504.4.8.1 Verification of compliance. Documentation shall be provided verifying that acoustical finish 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 5.506 INDOOR AIR QUALITY

of the California Energy Code, Section 120(c)(4).

Section 5.407.2 of this code.

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

5.506.3 Carbon dioxide (CO2) monitoring in classrooms

(DSA-SS) Each public K-12 school classroom, as listed in Table 120.1-A of the California Energy Code, shall be equipped with a carbon dioxide monitor or sensor that meets the following requirements: 1. The monitor or sensor shall be permanently affixed in a tamper-proof manner in each classroom between 3 and

6 feet (914 mm and 1829 mm) above the floor and at least 5 feet (1524 mm) away from door and operable

2. When the monitor or sensor is not integral to an Energy Management Control System (EMCS), the monitor or sensor shall display the carbon dioxide readings on the device. When the sensor is integral to an EMCS, the carbon dioxide readings shall be available to and regularly monitored by facility personnel. 3. A monitor shall provide notification though a visual indicator on the monitor when the carbon dioxide levels in the

classroom have exceeded 1,100ppm. A sensor integral to an EMCS shall provide notification to facility personnel through a visual and/or audible indicator when the carbon dioxide levels in the classroom have

4. The monitor or sensor shall measure carbon dioxide levels at minimum 15- minute intervals and shall maintain a record of previous carbon dioxide measurements of not less than 30 days duration. The monitor or sensor used to measure carbon dioxide levels shall have the capacity to measure carbon dioxide

levels with a range of 400ppm to 2000ppm or greater. 6. The monitor or sensor shall be certified by the manufacturer to be accurate within 75ppm at 1,000ppm carbon dioxide concentration and shall be certified by the manufacturer to require calibration no more frequently than

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

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:

1. 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

Land Use Zone (AICUZ) plan. 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

industrial sealant suitable for use with refrigerants and tightened in accordance with manufacturer's

Exception: Single-flared tubing connections may be used with a multiring seal coated with

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 be installed in the space between the rupture disc and the relief valve inlet to indicate a disc rupture or discharge of the relief valve.

5.508.2.2.2 Access valves. Only Schrader access valves with a brass or steel body are permitted for use.

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

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

designed to have seal caps. **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

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

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

5.508.2.6.3 Third vacuum. Pull a third vacuum down to a minimum of 300 microns, and hold for 24 hours

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

with a maximum drift of 100 microns over a 24-hour period.

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 esponsibility 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.

5. Other programs acceptable to the enforcing agency.

Public utility training programs. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations. Programs sponsored by manufacturing organizations.

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.

4. Other programs acceptable to the enforcing agency.

project they are inspecting for compliance with this code

project they are inspecting for compliance with this code.

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

1. Special inspectors shall be independent entities with no financial interest in the materials or the

2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate

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

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.

ABBREVIATIONS

			-
AB	AGGREGATE BASE	IRR	IRRIGATION
AGG	AGGREGATE	JB	JUNCTION BOX
ARV	AIR-RELEASE VALVE	JT	JOINT TRENCH
BFP	BACKFLOW PREVENTER	LF	LINEAR FOOT
ВО	BLOW-OFF VALVE	LIP	LIP OF GUTTER
BRW	FINISH GRADE BELOW WALL	LOG	LIMIT OF GRADING
BSW	BACK OF SIDEWALK	LP	LOW POINT
BVC	BEGIN VERTICAL CURVE	MFS	MECHANICAL FILTRATION SYSTEM
BW	BOTTOM OF WALL	MH	MANHOLE
CATV	CABLE TELEVISION	N	NORTH
СВ	CATCH BASIN	NE	NORTHEAST
CI	CURB INLET	NW	NORTHWEST
CIP	CAST IRON PIPE	OH	OVERHEAD
CL	CENTERLINE	PCC	PORTLAND CEMENT CONCRETE
CLR	CENTERLINE RADIUS	PE	POLYETHYLENE
CMP	CORRUGATED METAL PIPE	PP	POWER POLE
CMU	CONCRETE MASONRY UNIT	PL	PROPERTY LINE
CO	CLEANOUT	PRC	POINT OF REVERSE CURVE
COMM	COMMERCIAL	PIV	POST-INDICATOR VALVE
CONC	CONCRETE	PV	PAVEMENT
COTG	CLEANOUT TO GRADE	PVC	POLYVINYL CHLORIDE PIPE
DIP	DUCTILE IRON PIPE	R	RADIUS
DOM	DOMESTIC	R.C.	RELATIVE COMPACTION
DTL	DETAIL	RCP	REINFORCED CONCRETE PIPE
DWG	DRAWING	ROW	RIGHT-OF-WAY
DWY	DRIVEWAY	RPPB	REDUCE PRESSURE PRINICIPLE BACKFL
Ε	EAST, ELECTRICAL	RW	RECYCLED WATER
EG	EXISTING GROUND	S	SOUTH, SLOPE
EP	EDGE OF PAVEMENT	SD	STORM DRAIN
(E)	EXISTING	SE	SOUTHEAST
ÈX.	EXISTING	SCC	SANTA CRUZ COUNTY
FC	FACE OF CURB	SCWD	SANTA CRUZ CITY WATER DEPARTMENT
FDC	FIRE DEPARTMENT CONNECTION	SDMH	STORM DRAIN MANHOLE
FG	FINISH GRADE	SS	SANITARY SEWER
FF	FINISH FLOOR	SSMH	SANITARY SEWER MANHOLE
FH	FIRE HYDRANT	STA	STATION
FL	FLOWLINE	STD	STANDARD
FNC	FENCE	SW	SIDEWALK, SOUTHWEST
FO	FIBER OPTIC	T	TELEPHONE
FT	FOOT/FEET	TC	TOP OF CURB
FW	FIRE WATER	TRAN	TRANSFORMER
G	GAS	TRW	FINISH GRADE ABOVE WALL
GB	GRADE BREAK	TW	TOP OF WALL
HT	HEIGHT	USA	UNDERGROUND SERVICE ALERT
HDPE	HIGH-DENSITY POLYETHYLENE	VG	VALLEY GUTTER
HP	HIGH POINT	W	WEST, WATER
INT	INTERSECTION	WM	WATER METER
INV	INVERT	WV	WATER VALVE

LEGEND

DESCRIPTION	PROPOSED	<u>DESCRIPTION</u>	PROPOSED	
	$ \uparrow $			5
AIR RELEASE VALVE		COMMUNICATION LINE	сомм	
AREA DRAIN		ELECTRICAL LINE	Е	•
AREA DRAIN		FIBER OPTIC LINE	F0	6
BLOW-OFF VALVE		FIRE WATER LINE	FW	7
BLOW-OFF VALVE	_	GAS LINE	G	
CATCH BASIN		IRRIGATION LINE	IRR	
	-	JOINT TRENCH LINE	JT	8
CURB INLET		OVERHEAD LINE	—— ОН ———	
CLEANOUT STRUCTURE		RECYCLED WATER LINE	RW	
	~	STORM DRAIN LINE	SD	
FIRE HYDRANT	•	SANITARY SEWER LINE	ss	
GUY ANCHOR	\leftarrow	TELEPHONE LINE	т	9
		CABLE TV LINE	TV	
MANHOLE STRUCTURE	0	WATER LINE	w	1
WATER TURNET RIGOR	_	WALL		
WATER THRUST BLOCK	▼			1
WATER METER				
WATER VALVE	\otimes			1

GEOTECHNICAL ENGINEER

CONTRACTOR SHALL RETAIN SOILS ENGINEER FOR COMPACTION AND BACKFILL TESTING.

SURVEY

SURVEY FOR THE GREATER CAPITOLA COMMUNITY CENTER PROJECT WAS OBTAINED FROM IFLAND SURVEY, JOB NO. G23003, DATED MARCH 15, 2023.

SUPPLEMENTAL TOPOGRAPHIC DATA WAS OBTAINED FOR THIS PROJECT FROM GV LAND SURVEYING IN JUNE, 2025.

BENCHMARK

BENCHMARK FOR THE ORIGINAL SURVEY PERFORMED BY IFLAND SURVEY IS THE STORM DRAIN MANHOLE IN THE DRIVEWAY NEXT TO THE COMMUNITY CENTER.

ELEVATION = 76.17 FEET DATUM: NAVD88

BASIS OF BEARINGS

BEARINGS AND DISTANCES SHOWN ON THE ORIGINAL SURVEY PERFORMED BY IFLAND SURVEY ARE BASED ON STATE PLAN COORDINATE SYSTEM, CALIFORNIA COORIDINATE SYSTEM, ZONE 3, REFERENCE FRAME NAD_83(2011) (EPOCH: 2017.50).

ACCESSIBILITY NOTES

- 1. ALL NEW WORK SHALL CONFORM TO PARTS 1 AND 2 OF TITLE 24 OF THE CALIFORNIA CODE OF REGULATIONS, THE 2022 CALIFORNIA BUILDING STANDARDS CODE AS PUBLISHED BY THE CALIFORNIA BUILDING STANDARDS COMMISSION, AND THE AMERICANS WITH DISABILITIES ACT (ADA).
- 2. NEW CURB RAMPS SHALL NOT EXCEED A SLOPE OF 1:12 (8.33%).
- 3. ALL NEW ENTRANCE WALKS TO BUILDINGS SHALL NOT EXCEED A RUNNING SLOPE (PARALLEL TO THE DIRECTION OF TRAVEL) OF 1:20 (5%).
- 4. LANDINGS SHALL BE PROVIDED AT ALL BUILDING ENTRANCES WITH A 1:48 (2.08%) MAXIMUM SLOPE IN ALL DIRECTIONS. CONTRACTOR SHALL VERIFY THAT ALL LANDINGS AT NEW BUILDING ENTRANCES COMPLY WITH CBC 2022 SECTION 11B-404.
- 5. RAMPS ARE DEFINED AS ANY WALKING SURFACE WITH A RUNNING SLOPE STEEPER THAN 1:20 (5%). RAMPS USED AS PART OF MEANS OF EGRESS SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN 1:12 (8.33%). THE SLOPE OF OTHER PEDESTRIAN RAMPS SHALL NOT BE STEEPER THAN 1:8 (12.5%). RAMPS WITH A RISE GREATER THAN 6" SHALL HAVE HANDRAILS ON BOTH SIDES. SEE ARCHITECTURAL OR LANDSCAPE PLANS FOR RAILING REQUIREMENTS IF NOT IN THE SCOPE OF THE CIVIL PLANS. RAMPS SHALL HAVE A MINIMUM WIDTH OF 48" AND A MAXIMUM CROSS-SLOPE OF 1:48 (2.08%). RAMPS EXCEEDING 30" VERTICAL DROP SHALL HAVE INTERMEDIATE (2.08% MAXIMUM SLOPE) LANDINGS HAVING A MINIMUM LENGTH IN THE DIRECTION OF TRAVEL OF 60". LANDINGS AT THE BOTTOM OF A RAMP SHALL HAVE A MINIMUM LENGTH OF 72" IN THE DIRECTION OF DOWNWARD TRAVEL. LANDINGS AT CHANGES IN DIRECTION SHALL HAVE A CLEAR LANDING 60" MINIMUM BY 72" MINIMUM IN THE DIRECTION OF DOWNWARD TRAVEL FROM THE UPPER RAMP RUN. TOP LANDINGS SHALL BE 60" WIDE MINIMUM.
- MAXIMUM CROSS-SLOPE ON ANY SIDEWALK OR RAMP SHALL BE 2.08%. MAXIMUM SLOPE IN ANY DIRECTION WITHIN PARKING STALLS DESIGNATED AS ACCESSIBLE PARKING STALLS SHALL BE 2.08%.
- 7. ANY CATCHBASINS OR DRAINAGE INLETS LOCATED WITHIN DESIGNATED ACCESSIBLE PATHS OF TRAVEL SHALL BE INSTALLED WITH ADA COMPLIANT GRATES.
- 8. CONTRACTOR SHALL ENSURE AND CONSTRUCT ALL IMPROVEMENTS WITH ADA COMPLIANCE. THIS SHALL INCLUDE BUT NOT LIMITED TO PATHWAYS, RAMPS, BUILDING ENTRANCES, ROADWAYS, ETC.

SANTA CRUZ COUNTY GRADING NOTES

- 1. DESIGNATE A "DISTURBANCE COORDINATOR" TO RESPOND TO CITIZEN COMPLAINTS AND INQUIRIES REGARDING CONSTRUCTION NOISE AND DUST. THE NAME, PURPOSE, AND TELEPHONE NUMBER OF THE DISTURBANCE COORDINATOR SHALL BE POSTED ON A SIGN EASILY VISIBLE FROM OFF-SITE DURING THE ENTIRE TIME PROJECT GRADING AND CONSTRUCTION OCCURS. THE DISTURBANCE COORDINATOR SHALL INVESTIGATE THE CONCERN AND TAKE REMEDIAL ACTION, IF NECESSARY, WITHIN 24 HOURS OF RECEIVING A COMPLAINT OR AN INQUIRY.
- 2. NO CHANGES TO THE APPROVED IMPROVEMENT PLANS SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE DEPARTMENT OF PUBLIC WORKS.
- 3. NO LAND CLEARING, GRADING, OR EXCAVATING SHALL TAKE PLACE BETWEEN OCTOBER 15 AND APRIL 15 UNLESS A SEPARATE WINTER EROSION CONTROL PLAN IS APPROVED BY THE PLANNING DIRECTOR.
- 4. NO LAND DISTURBANCE SHALL TAKE PLACE PRIOR TO THE ISSUANCE OF BUILDING PERMITS. EXCEPT THE MINIMUM REQUIRED TO INSTALL STREET IMPROVEMENTS, PROVIDE ACCESS FOR COUNTY REQUIRED TESTS OR TO CARRY OUT OTHER WORK SPECIFICALLY REQUIRED BY ANOTHER OF THESE CONDITIONS. IN ADDITION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AN NPDES PERMIT FROM THE REGIONAL WATER QUALITY CONTROL BOARD PRIOR TO GRADING.
- 5. THE CONTRACTOR SHALL APPLY WATER TO ALL EXPOSED EARTH SURFACES AT INTERVALS SUFFICIENT TO PREVENT AIRBORNE DUST FROM LEAVING THE PROJECT SITE. ALL EXPOSED EARTH SHALL BE WATERED DOWN AT THE END OF THE WORK DAY.
- 6. WHILE IN TRANSIT TO AND FROM THE PROJECT SITE, ALL TRUCKS TRANSPORTING FILL SHALL BE EQUIPPED WITH TARPS.
- 7. ALL GRADING WORK AND CONSTRUCTION OF IMPROVEMENTS SHALL BE DONE IN ACCORDANCE WITH RECOMMENDATIONS SPECIFIED IN THE GEOTECHNICAL REPORT PREPARED FOR THIS PROJECT. THE GEOTECHNICAL ENGINEER SHALL INSPECT THE COMPLETED PROJECT AND CERTIFY IN WRITING THAT THE IMPROVEMENTS HAVE BEEN CONSTRUCTED IN CONFORMANCE WITH THE GEOTECHNICAL REPORT.
- 8. PURSUANT TO SECTIONS 16.40.040 AND 16.42.100 OF THE COUNTY CODE, IF AT ANY TIME DURING SITE PREPARATION, EXCAVATION, OR OTHER GROUND DISTURBANCE ASSOCIATED WITH THIS DEVELOPMENT, ANY ARTIFACT OR OTHER EVIDENCE OF A HISTORIC ARCHEOLOGICAL RESOURCE OR A NATIVE AMERICAN CULTURAL SITE IS DISCOVERED. THE RESPONSIBLE PERSONS SHALL IMMEDIATELY CEASE AND DESIST FROM ALL FURTHER SITE EXCAVATION AND NOTIFY THE SHERIFF-CORONER IF THE DISCOVERY CONTAINS HUMAN REMAINS, OR THE PLANNING DIRECTOR IF THE DISCOVERY CONTAINS NO HUMAN REMAINS. THE PROCEDURES ESTABLISHED IN SECTIONS 6.40.010 AND 16.42.100, SHALL BE OBSERVED.
- 9. THE DIRECTOR OF PUBLIC WORKS, OR HIS AUTHORIZED REPRESENTATIVE, SHALL HAVE THE AUTHORITY TO "STOP WORK" IF THE WORK IS NOT BEING DONE IN ACCORDANCE WITH THE APPROVED IMPROVEMENT
- 10. THE CONTRACTOR SHALL NOTIFY THE COUNTY CONSTRUCTION ENGINEER (831-454-2160) 24 HOURS PRIOR
- 11. THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO, OR USES OF, THESE PLANS. ALL CHANGES MUST BE IN WRITING AND MUST BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
- 12. ALL WORK ADJACENT TO OR WITHIN A COUNTY ROAD SHALL BE SUBJECT TO THE PROVISIONS OF CHAPTER 9.70 OF THE COUNTY CODE, INCLUDING OBTAINING AN ENCROACHMENT PERMIT WHERE REQUIRED. WHERE FEASIBLE. ALL IMPROVEMENTS ADJACENT TO OR AFFECTING A COUNTY ROAD SHALL BE COORDINATED WITH ANY PLANNED COUNTY SPONSORED CONSTRUCTION ON THAT ROAD.

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
C1.0	GENERAL NOTES, ABBREVIATIONS & LEGEND
C2.0	DETAILS
C2.1	AGENCY STANDARD DETAILS
C3.0	GRADING AND DRAINAGE PLAN
C4.0	EROSION CONTROL NOTES AND DETAILS
C4.1	EROSION CONTROL PLAN

SANTA CRUZ COUNTY GENERAL NOTES

- 1. ALL CONSTRUCTION SHALL COMPLY WITH APPLICABLE REQUIREMENTS IN THE CURRENT EDITION OF THE "COUNTY OF SANTA CRUZ DESIGN CRITERIA."
- 2. WORK SHALL BE LIMITED TO 8:00 A.M. TO 5:00 P.M. WEEKDAYS. NON-NOISE PRODUCING ACTIVITIES, SUCH AS INTERIOR PAINTING, SHALL NOT BE SUBJECT TO THIS RESTRICTION.
- 3. DESIGNATE A "DISTURBANCE COORDINATOR" TO RESPOND TO CITIZEN COMPLAINTS AND INQUIRIES REGARDING CONSTRUCTION NOISE AND DUST. THE NAME, PURPOSE AND TELEPHONE NUMBER OF THE DISTURBANCE COORDINATOR SHALL BE POSTED ON A SIGN EASILY VISIBLE FROM OFF-SITE DURING THE ENTIRE TIME PROJECT GRADING AND CONSTRUCTION OCCURS. THE DISTURBANCE COORDINATOR SHALL INVESTIGATE THE CONCERN AND TAKE REMEDIAL ACTION, IF NECESSARY, WITHIN 24 HOURS OF RECEIVING A COMPLAINT OR INQUIRY.
- 4. ALL FIGURE (FIG.) REFERENCES, UNLESS OTHERWISE SPECIFIED, REFER TO STANDARD DRAWINGS IN THE CURRENT EDITION OF THE "COUNTY OF SANTA CRUZ DESIGN CRITERIA"
- NO CHANGES IN THE APPROVED IMPROVEMENT PLANS SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE DEPARTMENT OF PUBLIC WORKS.
- 6. NO LAND CLEARING, GRADING OR EXCAVATING SHALL TAKE PLACE BETWEEN OCTOBER 15 AND APRIL 15 UNLESS A SEPARATE WINTER EROSION CONTROL PLAN IS APPROVED BY THE PLANNING DIRECTOR.
- BETWEEN OCTOBER 15 AND APRIL 15, EXPOSED SOIL SHALL BE PROTECTED FROM EROSION AT ALL TIMES. DURING CONSTRUCTION SUCH PROTECTION MAY CONSIST OF MULCHING AND/OR PLANTING OF NATIVE VEGETATION OF ADEQUATE DENSITY. BEFORE COMPLETION OF THE PROJECT. ANY EXPOSED SOIL ON DISTURBED SLOPES SHALL BE PERMANENTLY PROTECTED FROM EROSION.
- 8. NO LAND DISTURBANCE SHALL TAKE PLACE PRIOR TO THE ISSUANCE OF BUILDING PERMITS. EXCEPT THE MINIMUM REQUIRED TO INSTALL STREET IMPROVEMENTS, PROVIDE ACCESS FOR COUNTY REQUIRED TESTS OR TO CARRY OUT OTHER WORK SPECIFICALLY REQUIRED BY ANOTHER OF THESE CONDITIONS. IN ADDITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A NPDES PERMIT FROM THE REGIONAL WATER QUALITY CONTROL BOARD PRIOR TO GRADING.
- 9. THE CONTRACTOR SHALL APPLY WATER TO ALL EXPOSED EARTH SURFACES AT INTERVALS SUFFICIENT TO PREVENT AIRBORNE DUST FROM LEAVING THE PROJECT SITE. ALL EXPOSED EARTH SHALL BE WATERED DOWN AT THE END OF THE WORK DAY.
- 10. WHILE IN TRANSIT TO AND FROM THE PROJECT SITE, ALL TRUCKS TRANSPORTING FILL SHALL BE EQUIPPED WITH TARPS.
- 11. ALL CONSTRUCTION STAKING FOR CURB. GUTTER, SIDEWALK, SANITARY SEWER, STORM DRAINS AND WATER LINES SHALL BE DONE UNDER THE SUPERVISION OF A LICENSED LAND SURVEYOR OR REGISTERED CIVIL
- 12. FOR DESIGN AND CONSTRUCTION PURPOSES, "FACE OF CURB" AS SHOWN ON THESE PLANS SHALL BE DEFINED AS THE CONTROL LINE FROM WHICH THE LOCAL AGENCY REQUIRES THE STREET WIDTH TO BE DETERMINED.
- 13. THE DIRECTOR OF PUBLIC WORKS, OR HIS AUTHORIZED REPRESENTATIVE, SHALL HAVE THE AUTHORITY TO "STOP WORK" IF THE WORK IS NOT BEING DONE IN ACCORDANCE WITH THE APPROVED IMPROVEMENT PLANS.
- 14. THE CONTRACTOR SHALL NOTIFY THE COUNTY CONSTRUCTION ENGINEER (831-454-2160) 24 HOURS PRIOR TO START OF CONSTRUCTION.
- 15. THE CONTRACTOR SHALL NOTIFY THE SANITATION DISTRICT INSPECTOR (831-454-2160), OR LEAVE MESSAGE AT 831-458-2895 BEFORE 9:00 A.M. AT LEAST 24 HOURS PRIOR TO THE CONNECTION OF ANY BUILDING SEWER TO THE SEWER LATERAL. OR TO THE ABANDONMENT THEREOF. (IN THE CASE OF ABANDONMENTS, NO DEMOLITION PERMITS WILL BE ISSUED UNTIL SAID SEWER LINE HAS BEEN ABANDONED.)
- 16. ALL UTILITIES SHALL BE INSTALLED UNDERGROUND.
- 17. IF SIDEWALK IS NOT PLACED MONOLITHICALLY WITH CURB AND GUTTER, PLACE #4 DOWELS 18" LONG AT 4' O.C. IN BACK OF CURB 3" BELOW TOP OF CURB, 6" INTO CONCRETE, AS PER STANDARD FIG. ST-4A.

19. ALL REQUIREMENTS OF THE CENTRAL FIRE PROTECTION DISTRICT SHALL BE MET. THIS SHALL INCLUDE ALL

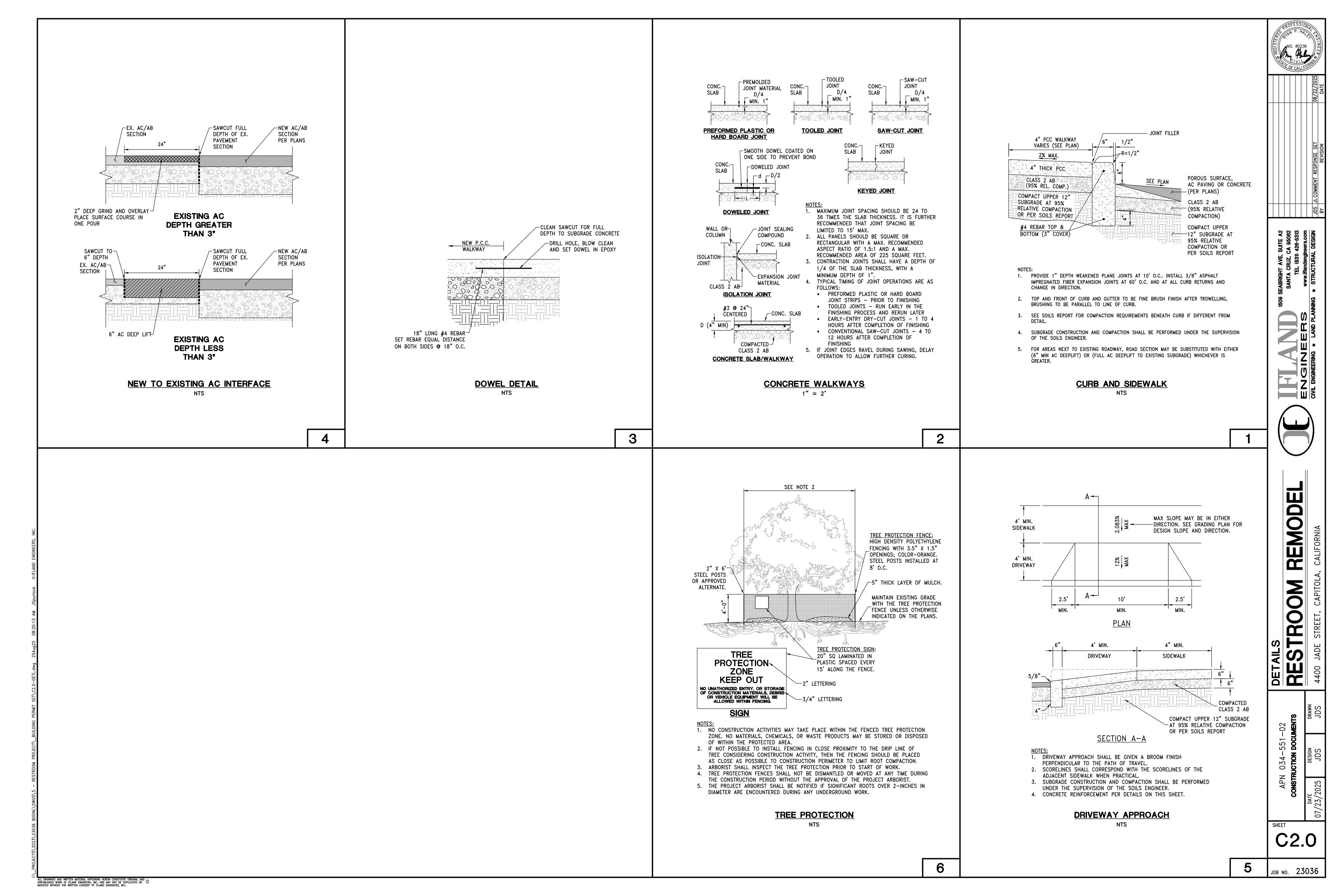
- 18. CONTRACTOR SHALL FIELD VERIFY ALL UNDERGROUND UTILITIES AND SUBSTRUCTURES. PRIOR TO FURTHER CONSTRUCTION, THE ENGINEER MUST BE NOTIFIED, IN WRITING, OF ANY DISCREPANCIES THAT MAY EXIST.
- REQUIREMENTS RELATING TO SMOKE DETECTORS. ADDRESS NUMBERS. FIRE ALARM. AUTOMATIC SPRINKLER SYSTEM, ACCESS WIDTHS AND TURNAROUNDS, AND FIRE HYDRANTS.
- 20. PRIOR TO CONSIDERATION FOR FORMAL COUNTY ACCEPTANCE OF THE IMPROVEMENTS, AS-BUILT PLANS WILL BE PREPARED BY COUNTY STAFF. ANY CHANGES FROM THE IMPROVEMENT PLANS NOT PREVIOUSLY APPROVED BY THE DEPARTMENT OF PUBLIC WORKS WILL REQUIRE NEGOTIATION AND ADJUSTMENT TO THE SATISFACTION OF THE COUNTY.
- 21. MAILBOXES SHALL BE PROVIDED PER U.S. POSTAL SERVICE REQUIREMENTS.
- 22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF CONSTRUCTION QUANTITIES PRIOR TO BIDDING ON ANY ITEM. QUANTITY REFERENCES SHOWN ON THESE PLANS. OR ENGINEER'S ESTIMATES ARE FOR ESTIMATING PURPOSES ONLY AND SHALL NOT BE CONSIDERED AS A BASIS FOR CONTRACTOR PAYMENT. CONSULTANT SHALL NOT BE RESPONSIBLE FOR ANY FLUCTUATIONS IN SUCH QUANTITIES AND
- 23. THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR. OR LIABLE FOR. UNAUTHORIZED CHANGES TO, OR USES OF, THESE PLANS. ALL CHANGES MUST BE IN WRITING AND MUST BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
- 24. UNLESS OTHERWISE NOTED, THE TERMS "INSTALL" AND "CONSTRUCT" MEAN THAT THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL MATERIALS, PRODUCTS, EQUIPMENT, AND LABOR FOR SAID INSTALLATION AND CONSTRUCTION.
- 25. STATIONS AND DIMENSIONED LOCATIONS OF ALL SEWER AND STORM DRAIN MANHOLES AND RELATED STRUCTURES AND THEIR GRATE, RIM, FLOWLINE OR INVERT ELEVATIONS SHALL TAKE PRECEDENCE OVER ANY PIPE LENGTHS OR SLOPES SHOWN ON THE PLAN AND PROFILE DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY SUCH SLOPES AND LENGTHS TO BE IN AGREEMENT WITH SURVEY LAYOUT PRIOR TO CONSTRUCTION.
- 26. ALL WORK ADJACENT TO OR WITHIN A COUNTY ROAD SHALL BE SUBJECT TO THE PROVISIONS OF CHAPTER 9.70 OF THE COUNTY CODE, INCLUDING OBTAINING AN ENCROACHMENT PERMIT WHERE REQUIRED. WHERE FEASIBLE, ALL IMPROVEMENTS ADJACENT TO OR AFFECTING A COUNTY ROAD SHALL BE COORDINATED WITH ANY PLANNED COUNTY SPONSORED CONSTRUCTION ON THAT ROAD.
- 27. FOR ROAD WORK INVOLVING A PAVEMENT CONFORM SECTION BETWEEN THE LIP OF GUTTER AND THE EXISTING PAVED ROAD, THE CONFORM SHALL BE EXTENDED AS FAR AS NECESSARY TO ACHIEVE A STREET CROSS SLOPE OF 2%-4%.
- 28. MONUMENTATION WILL BE VERIFIED BY THE COUNTY CONSTRUCTION ENGINEER. LOCATION OF EXTERNAL MONUMENTS WILL BE VERIFIED FOR ALL TRACTS. LOCATION OF OTHER MONUMENTATION WILL BE VERIFIED AT RANDOM.

IFLAND ENGINEERS STANDARD NOTES

- ALL GRADING WORK AND CONSTRUCTION OF IMPROVEMENTS SHALL BE DONE UNDER THE OBSERVATION OF A GEOTECHNICAL ENGINEER HIRED BY THE CITY FOR CONSTRUCTION PHASE SERVICES. THE GEOTECHNICAL ENGINEER SHALL INSPECT THE COMPLETED PROJECT AND VERIFY IN WRITING THAT ALL GRADING AND COMPACTION OPERATIONS HAVE BEEN CONSTRUCTED IN CONFORMANCE WITH THE GEOTECHNICAL REPORT. THE GEOTECHNICAL ENGINEER SHALL ALSO INSPECT AND VERIFY ALL STORMWATER GRAVEL STORAGE PITS.
- ALL ORGANIC MATERIAL COVERING THE SITE SHALL BE STRIPPED AND STOCKPILED. THE STRIPPINGS SHALL BE USED TO BACKFILL ALL ROUGH GRADED MOUND AREAS OR LANDSCAPE PLANTERS AS APPROVED BY THE LANDSCAPE ARCHITECT TO WITHIN 0.1' OF GRADES SHOWN. EXCESS STRIPPINGS AND EXCAVATED MATERIALS SHALL BE REMOVED FROM THE SITE BY THE GRADING CONTRACTOR IF EARTHWORK BALANCE CANNOT BE ACHIEVED.
- 3. COMPACTION TO BE DETERMINED USING THE LATEST EDITION OF ASTM D1557.
- 4. THE TYPES, LOCATIONS, SIZES, AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THE IMPROVEMENT PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS, AND DEPTHS OF SUCH UNDERGROUND UTILITIES. (A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES). HOWEVER. THE ENGINEER CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF THE DELINEATION OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED, BUT WHICH ARE NOT SHOWN ON THESE DRAWINGS. CONTRACTOR TO CONTACT USA AT 811 PRIOR TO START OF WORK.
- CONTRACTOR TO VERIFY ALL EXISTING INVERT ELEVATIONS FOR STORM DRAIN AND SANITARY SEWER CONSTRUCTION PRIOR TO ANY SITE WORK. ALL WORK FOR STORM AND SANITARY INSTALLATION SHALL BEGIN AT THE DOWNSTREAM CONNECTION POINT. ALLOW FOR ANY NECESSARY ADJUSTMENTS TO BE MADE PRIOR TO THE INSTALLATION OF THE ENTIRE LINE.
- SHOULD DISCREPANCIES EXIST BETWEEN THE ACTUAL ELEVATIONS AND LOCATIONS OF EXISTING UTILITY CONNECTIONS AND THOSE AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL NOTIFY IFLAND ENGINEERS BEFORE ADJUSTING THE UTILITY DESIGN.
- 7. CONTRACTOR SHALL UNCOVER AND EXPOSE ALL EXISTING UTILITY LINES WHERE THEY ARE TO BE CROSSED ABOVE OR BELOW BY THE NEW UTILITY LINE BEING CONSTRUCTED IN ORDER TO VERIFY THE GRADES AND CLEARANCES. IF ASSISTANCE IS REQUIRED. CONTRACTOR SHALL ARRANGE FOR A SURVEY CREW TO VERIFY THE ELEVATIONS AT THE CROSSINGS. PIPE SHALL NOT BE STRUNG NOR TRENCHING COMMENCED UNTIL ALL CROSSINGS HAVE BEEN VERIFIED FOR CLEARANCE.
- 8. CONTRACTOR SHALL SET HIS STRING OR WIRE THROUGH AT LEAST THREE GRADE STAKES TO VERIFY THE UTILITY GRADES. IF THE STAKES DO NOT PRODUCE A UNIFORM GRADE. NOTIFY THE ENGINEER IMMEDIATELY AND HAVE THE GRADES CHECKED PRIOR TO TRENCHING.
- 9. ALL UTILITY STRUCTURES TO REMAIN. INCLUDING BUT NOT LIMITED TO MANHOLES, CATCH BASINS. WATER VALVES. FIRE HYDRANTS. TELEPHONE AND ELECTRICAL VAULTS. AND PULL BOXES THAT REMAIN WITHIN AREAS EFFECTED BY THE CONSTRUCTION WORK ON THIS PROJECT SHALL BE ADJUSTED TO GRADE BY THE CONTRACTOR OR THE RESPECTIVE UTILITY COMPANY WHETHER SHOWN ON THESE PLANS OR NOT. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH ALL PUBLIC OR PRIVATE UTILITY COMPANIES.
- 10. STORM DRAIN PIPES DESIGNATED AS "SD" FROM 4" TO 24" IN DIAMETER SHALL BE SDR-35 P.V.C. OR APPROVED ALTERNATIVE, HDPE STORM DRAIN PIPE WITH SMOOTH INTERIOR AND ANNULAR EXTERIOR CORRUGATIONS, MEETING AASHTO M252, TYPE S, AASHTO M294, TYPE S, OR ASTM F2306 SPECIFICATIONS, WITH WATER-TIGHT INTEGRATED BELL JOINTS PER ASTM D3212 OR APPROVED ALTERNATIVE WITH CLASS 1 BACKFILL, OR D.I.P. (DUCTILE IRON PIPE) IF SPECIFIED ON THE PLANS. NO MATERIAL SUBSTITUTION SHALL BE ALLOWED FOR DUCTILE IRON PIPE IF DESIGNATED ON THE PLANS. ANY PIPES LARGER THAN 24" IN DIAMETER SHALL BE CLASS III REINFORCED CONCRETE PIPE (RCP). HDPE AND PVC PIPES SHALL ONLY BE USED IF DESIGNATED ON THE PLANS. NO OTHER PIPE MATERIALS MAY BE USED UNLESS APPROVED BY THE ENGINEER.
- 11. ALL AREAS TO BE GRADED ACCORDING TO THE GRADES SHOWN ON THESE PLANS. A 1% MINIMUM SLOPE FOR DRAINAGE SHALL BE APPLIED IF NO GRADES ARE SHOWN. SUBJECT TO THE APPROVAL OF THE PROJECT ENGINEER. FLOWLINE OF CURBS AND VALLEY GUTTERS MAY BE GRADED AT LESS THAN 1% IF SLOPES ARE DESIGNATED ON THESE PLANS.
- 12. CONTRACTOR SHALL GRADE EVENLY BETWEEN SPOT ELEVATIONS.
- 13. PROPOSED SPOT GRADES (ELEVATIONS) SHOWN HEREON ARE FINISHED PAVEMENT GRADES OR FINISHED SURFACE GRADES, NOT TOP OF CURB GRADES, UNLESS NOTED OTHERWISE.
- 14. WHEN A GRADING PERMIT IS ISSUED ON THIS PROJECT. THE AGENCY APPROVAL APPLIES ONLY TO GRADING. THE CONTRACTOR IS RESPONSIBLE FOR SECURING ALL OTHER NECESSARY PERMITS TO CONSTRUCT THE PROPOSED SITE WORK.
- 15. ESTIMATED EARTHWORK QUANTITIES SHOWN WITHIN THIS PLAN SET ARE APPROXIMATE ONLY AND SHOWN FOR THE PURPOSES OF CALCULATING GRADING PERMIT FEES. CONTRACTOR IS RESPONSIBLE FOR VERIFYING INDEPENDENTLY BOTH CUT AND FILL QUANTITIES. IFLAND ENGINEERS ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THESE NUMBERS.
- 16. ALL GRADING, TRENCHING, SHORING, PAVING, AND CONSTRUCTION WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE O.S.H.A REGULATIONS.
- 17. CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF THE CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONNEL AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONTRACTOR AGREES TO DEFEND, INDEMNIFY, AND HOLD DESIGN PROFESSIONALS AND CITY REPRESENTATIVES HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.
- 18. NO CHANGES ON THESE PLANS SHALL BE MADE WITHOUT PRIOR APPROVAL OF IFLAND ENGINEERS AND THE CITY/COUNTY ENGINEER.
- 19. THE CONTRACTOR SHALL APPLY WATER TO ALL EXPOSED EARTH SURFACES AT INTERVALS SUFFICIENT TO PREVENT AIRBORNE DUST FROM LEAVING THE PROJECT SITE. ALL EXPOSED EARTH SHALL BE WATERED DOWN AT THE END OF THE WORK DAY.
- 20. WHILE IN TRANSIT TO AND FROM THE PROJECT SITE, ALL TRUCKS TRANSPORTING FILL MATERIAL SHALL BE COVERED WITH TARPS.
- 21. IF AT ANY TIME DURING SITE PREPARATION, EXCAVATION, OR OTHER GROUND DISTURBANCE ASSOCIATED WITH THIS DEVELOPMENT, ANY ARTIFACT OR OTHER EVIDENCE OF A HISTORIC ARCHEOLOGICAL RESOURCE OR A NATIVE AMERICAN CULTURAL SITE IS DISCOVERED, THE RESPONSIBLE PERSONS SHALL IMMEDIATELY CEASE AND DESIST FROM ALL FURTHER SITE EXCAVATION AND NOTIFY THE SHERIFF-CORONER IF THE DISCOVERY CONTAINS HUMAN REMAINS, OR THE PLANNING DIRECTOR IF THE DISCOVERY CONTAINS NO HUMAN REMAINS.
- 22. THE DIRECTOR OF PUBLIC WORKS AND CHIEF BUILDING OFFICIAL, OR THEIR AUTHORIZED REPRESENTATIVE, SHALL HAVE THE AUTHORITY TO "STOP WORK" IF THE WORK IS NOT BEING DONE IN ACCORDANCE WITH THE APPROVED PLANS.
- 23. THE CONTRACTOR SHALL NOTIFY THE CITY/COUNTY ENGINEER 24 HOURS PRIOR TO START OF
- 24. THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO, OR USES OF, THESE PLANS. ALL CHANGES MUST BE IN WRITING AND MUST BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
- 25. EROSION CONTROL PLANS AND STORM WATER POLLUTION PREVENTION PLANS SHALL BE PERMITTED AND FILED WITH THE APPLICABLE AGENCIES PRIOR TO ANY CONSTRUCTION OR GRADING OPERATIONS.
- 26. CONSTRUCTION REQUEST FOR INFORMATION (RFI) SHALL BE SUBMITTED TO ENGINEER IN WRITING AND ALLOW FOR A MINIMUM OF 3 WORKING DAYS FOR RESPONSE TIME.

JOB NO. 23036

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Paints, varnish, solvents and adhesives contain chemicals that are harmful to wildlife and aquatic life in our community. Toxic chemicals may come from liquid or solid products or from cleaning residues or rags. Paint materials and wastes, adhesives and cleaning fluid should be recycled when possible or properly disposed to prevent these substances from entering the storm drains and watercourses.

Handling of Surface Coatings

- Keep paint, varnish, solvents and adhesive products and wastes away from the gutter, street and storm drains. Wastewater
- or runoff containing paint or paint thinner must never be discharged into the storm drain system. When there is a risk of a spill reaching the storm drain, nearby storm drain inlets must be protected prior to starting painting.

Removal of Surface Coatings

- Non-hazardous paint chips and dust from dry stripping and sand blasting may be swept up or collected in plastic drop cloths and disposed of as trash.
- Chemical paint or varnish stripping residue, chips and dust from marine paints or varnishes, or paints containing lead, mercury or tributyltin must be disposed of as hazardous wastes. Lead based paint removal requires a state-certified
- contractor. Paint may be tested for lead by taking paint scrapings to a local, state-certified laboratory. When stripping or cleaning building exteriors with high-pressure water, block storm drains to prevent flow to creeks and the
- Monterey Bay. Wash water from painted buildings constructed pre-1978 can contain high amounts of lead even if paint chips are not present. Before stripping paint or cleaning a pre-1978 building's exterior with water under high pressure, test paint for lead

Clean Up of Surface Coatings

- Never clean brushes or rinse paint or varnish containers into a gutter, street, storm drain, French drain or creek. For water based paints, paint out brushes to the extent possible and rinse into an interior sink drain that goes to the sanitary
- For oil based paints, paint out brushes to the extent possible and clean with thinner or solvent. Filter and reuse thinners and
- solvents where possible. Dispose of excess liquids and residue as hazardous waste. When thoroughly dry, empty paint cans, used brushes, rags and drop cloths may be disposed of as garbage.

Disposal of Surface Coatings

- Recycle, return to supplier, or donate unwanted water-based (latex) paint. Oil-based paint may be recycled or disposed of as
- hazardous waste. Varnish, thinners, solvents, glues and cleaning fluids must be disposed of as hazardous waste. When the job is completed, collect all unused or waste materials and dispose of properly. Never leave or abandon materials

- **♦**Roadwork & Paving Protect nearby storm drain inlets and adjacent water bodies prior to breaking up asphalt or concrete.
- The discharge of saw cut slurry to the storm drain system is prohibited. Take measures to contain the slurry and protect nearby catch basins or gutters. If slurry enters the storm drain system, remove material immediately.
- Dried, saw cut slurry must be cleaned up and properly disposed so that it will not be carried into the storm drain system by wind, traffic, or rainfall.
- After breaking up old pavement, sweep up materials and recycle as much as possible. Properly dispose of non-recyclable
- Cover and seal nearby storm drain inlets and manholes before applying seal coat, slurry seal, etc. Leave covers in place until the oil sealant is dry.
- In the event of rain during construction, divert runoff around work areas and cover materials.

onsite, and ensure that nothing has drifted toward the street, gutter, or catch basin.

Park paving machines over drip pans or absorbent materials.

by taking paint scrapings to a local, state-certified laboratory.

- Never wash sweepings from exposed aggregate concrete into a street or a storm drain inlet. Collect and return to aggregate base stockpile or dispose of in the trash.
- Remove and clean up material stockpiles (i.e. asphalt and sand) by the end of each week or, if during the rainy season, by the end of each day. Stockpiles must be removed by the end of each day if they are located in a public right-of-way.

NOT TO SCALE	OF CAPITAL	STANDARD DRAWINGS FOR	DRAWN: 2/14	REV:
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Effective filtration devices, barriers, and settling devices shall be selected, installed and maintained properly. Silt fences must be installed so that the drainage around each fence does not create additional erosion and rills down slope

- If straw wattles are used to filter sediment runoff, ensure that the bales are actually filtering the water (and not just causing
- the water to travel around the bale) and that the straw pieces are not carried into the storm drain system. Whenever possible, use terracing, surface roughening (e.g. with a bulldozer), and energy dissipaters (such as riprap, sand
- bags and rocks) on slopes to reduce runoff velocity and trap sediments. Do not use asphalt rubble or other demolition debris
- All on-site erosion control measures and structural devices, both temporary and permanent, shall be properly maintained so that they do not become nuisances with stagnant water, odors, insect breeding, heavy algae growth, debris, and/or safety hazards
- A qualified person should conduct inspections of all on-site BMPs during each rainstorm and after a storm is over to ensure that the BMPs are functioning properly. For sites greater than one-acre, onsite inspections are required in accordance with

♦ Earth Moving Activities & Heavy Equipment

Soil excavation and grading operations loosen large amounts of soil that can be transported into storm drains when handled improperly. Effective erosion control practices reduce the amount of runoff crossing a site and slow the flow with check dams or roughened ground surfaces. Often, earth moving activities require use and storage of heavy equipment. Poorly maintained vehicles and heavy equipment that leak fuel, oil, antifreeze or other fluids onto the construction site are common sources of storm drain pollution.

Site Planning

- Maintain all heavy equipment, inspect frequently for leaks, and repair leaks immediately upon discovery.
- Perform major auto or heavy equipment maintenance, repair jobs and vehicle or equipment washing off-site.
- If you must drain and replace motor oil, radiator coolant or other fluids on site, use drip pans, plastic sheeting or drop cloths to catch drips and spills. Collect all spent fluids, store in separate containers and properly dispose as hazardous waste. Recycle whenever possible.
- Do not use diesel oil to lubricate equipment parts or clean equipment. Only use water for onsite cleaning. Cover exposed fifth wheel hitches and other oily or greasy equipment during all rain events.

Practices During Construction

- Remove existing vegetation only when absolutely necessary. Plant temporary vegetation for erosion control on slopes or
- where construction is not immediately planned. Protect down slope drainage courses, creeks and storm drains with wattles or temporary drainage swales.
- Use check dams or ditches to divert runoff around excavations. Refer to the Erosion & Sediment Control Field Manual, California Regional Water Quality Control Board San Francisco Bay Region, Fourth Edition August 2002; and the most recent versions of the Manual of Standards for Erosion and Sediment Control Measures, Association of Bay Area Governments (ABAG), and Construction Best Management Practices (BMPs) Handbook, California Stormwater Quality
- Association (CASQA). Cover stockpiles and excavated soil with secured tarps or plastic sheeting.

<u>Spill Clean Up</u>

- Maintain a spill clean-up kit on site.
- Clean up spills immediately. Use dry cleanup methods if possible.
- Never hose down dirty pavement or impermeable surfaces where fluids have spilled. Use dry cleanup methods (absorbent
- materials, cat litter and/or rags) whenever possible and properly dispose of absorbent materials. Sweep up spilled dry materials immediately. Never attempt to wash them away with water or bury them.
- Use as little water as possible for dust control. If water is used, ensure it does not leave silt or discharge to storm drains. Call 911 for significant spills. If the spill poses a significant hazard to human health and safety, you must also report it to the State Office of Emergency Services.

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Clean up leaks, drips and other spills immediately so that they do not contaminate the soil or runoff nor leave residue on paved surfaces. Use dry cleanup methods whenever possible. Water may only be used in minimum quantities to prevent

- $_{\perp}$ If portable toilets are used, ensure that the leasing company properly maintains the toilets and promptly makes repairs. Conduct visual inspections for leaks.
- Protect vegetation and trees from accidental damages from construction activities by surrounding them with fencing or tree

- Site development shall be fitted to the topography and soils in order to minimize the potential for erosion.
 - Soil grading/clearing limits, easements, setback, sensitive or critical areas, trees, drainage courses, and buffer zones must be delineated on site to prevent excessive or unnecessary disturbances and exposure prior to construction. Schedule excavation and grading activities for dry weather periods. To reduce soil erosion, plant temporary vegetation or
 - place other erosion controls before rain begins. Conduct grading operations in phases in order to reduce the amount of disturbed areas and exposed soil at any one time. Unless specifically approved on the project's drainage plan, grading, sediment and erosion control plan, clearing, excavation

and grading shall not be conducted during rainy weather. All rainy season grading shall be in accordance with Capitola

Municipal Code Chapter 15.28. Control the amount of runoff crossing your site especially during excavation by using berms or temporary drainage ditches or bio-swales to divert water flow around the site. Reduce stormwater runoff velocities by constructing temporary check dams or berms where appropriate.

- Practice contaminant "Source Reduction" by estimating carefully and minimizing waste when ordering materials. Recycle excess materials such as concrete, asphalt, scrap metal, solvents, degreasers, paper, and vehicle maintenance
- materials whenever possible.
- Dispose of all wastes properly by ensuring that materials that cannot be recycled are taken to an appropriate land fill or disposed of as hazardous waste. Never bury waste materials or leave them in the street or near a creek or drainage

♦Landscaping, Gardening & Ponds/Fountains/Pool/Spa Maintenance

Many landscaping activities and practices expose soils and increase the likelihood of water runoff that will transport earth, sediments and garden chemicals to the storm drain during irrigation or rain events. Other exterior amenities such as ponds, pools and spas require regular maintenance using chlorine and/or copper based algaecides. Water treated with these chemicals is toxic to aquatic life and should never be discharged to the storm drain.

Landscaping & Garden Maintenance

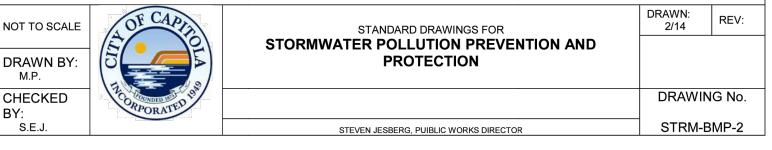
- Protect stockpiles and landscaping materials from wind and rain by storing them under tarps or secured plastic sheeting. Schedule grading and excavation during dry weather.
- Use temporary check drains or ditches to direct runoff away from storm drains or drainage channels. Protect storm drain inlets with sandbags, gravel filled bags, straw wattles, filter fabric or other sediment controls.
- Re-vegetation is an excellent form of erosion control for any site.
- Never dump or leave soil, mulch, or other landscape products in the street, gutter, or storm drain.

Ponds/Fountains/Pool/Spa Maintenance

When draining a pond, fountain, pool or spa, any volumes in excess of 500 gallons must be reported in advance to the City of Capitola Public Works Department. The City will provide guidance on handling special cleaning waste, flow rate restrictions and backflow prevention.

◆Preventing Water & Sediment Runoff

Effective erosion and sediment control measures must be implemented and maintained on all disturbed areas in order to prevent a net increase of sediment in the site's storm water discharge relative to pre-construction levels. During the rainy season, erosion control measures must also be located at all appropriate locations along the site's perimeter and at all inlets to the storm drain system. Effective methods to protect storm drain inlets include sand bag barriers, heavy rubber mats to cover and seal the inlet, and sediment traps or basins. Refer to the Erosion & Sediment Control Field Manual, California Regional Water Quality Control Board San Francisco Bay Region, Fourth Edition August 2002; and the most recent versions of the Manual of Standards for Erosion and Sediment Control Measures, Association of Bay Area Governments (ABAG), and Construction Best Management Practices (BMPs) Handbook, California Stormwater Quality Association (CASQA).



Stormwater Pollution Prevention and Protection for Construction Projects

In the City of Capitola, water in streets, gutters, and storm drains flows directly to local creeks and Monterey Bay without any treatment. When debris, paint, concrete and other harmful pollutants from construction sites and home construction projects get spilled, leaked or washed into the street or storm drain they can damage sensitive creek habitats and end up polluting our bay and ocean.

In order to reduce the amount of pollutants reaching local storm drains and waterways, the City has developed "Best Management Practices" (BMPs) for construction work. All types of construction projects are required to abide by the following mandatory BMPs. These BMPs apply to both new and remodeled residential, commercial, retail, and industrial projects.

In addition to the following mandatory BMPs, the Central Coast Regional Water Quality Control Board (Regional Water Board) under the State Water Resources Control Board (State Water Board) requires coverage under and adherence to the Construction Activities Storm Water General Permit, or CGP, to regulate storm water runoff from construction sites. In general, any construction or demolition activity, including, but not limited to, clearing, grading, grubbing, or excavation, or any other activity that results in a land disturbance of equal to or greater than one acre, requires coverage under the CGP. Construction activities associated with Linear Underground Projects (LUPs) also require coverage under the CGP. It should be noted that SWPPP development and implementation (inspections, tracking) associated with sites subject to the CGP (excluding waiver sites) must be done by a qualified SWPPP developer (QSD), respectively. More information on the CGP and QSD/QSPs may

be found at http://www.waterboards.ca.gov/water issues/programs/stormwater/constpermits.shtml

♦General Construction & Site Supervision All construction BMPS, sediment and erosion control must be installed prior to beginning construction and maintained throughout the project duration. Compliance with the CGP and below BMPs is required year round.

Keep an orderly site and ensure good housekeeping practices are used.

- Maintain equipment properly.
- Cover materials when they are not in use.
- Keep materials away from streets, gutters, storm drains and drainage channels.

city streets must be cleaned up to prevent washing into the storm drains.

- Ensure dust control water does not leave the site or discharge to storm drains. Train your employees on these BMPs and familiarize them with storm water issues prior to beginning work. Inform your
- subcontractors about storm water requirements and be sure that they also abide by these BMPs. Refer to the following approved references for BMP selection, implementation, and on-site management (most recent
- versions unless otherwise noted): • Erosion & Sediment Control Field Manual, California Regional Water Quality Control Board San Francisco Bay Region,
- Fourth Edition August 2002.
- Manuel of Standards for Erosion and Sediment Control Measures, Association of Bay Area Governments (ABAG)
- Construction Best Management Practices (BMPs) Handbook, California Stormwater Quality Association (CASQA) Construction Site Best Management Practices (BMPs) Manual. Storm Water Quality Handbooks. Caltrans

Good Housekeeping Practices Designate one area of the site located away from storm drains, drainage swales, and creeks for auto parking and heavy

- equipment storage, vehicle refueling and routine equipment maintenance. To prevent off-site tracking of dirt, provide site entrances with stabilized aggregate surfaces or provide a tire wash area on the site, but away from storm inlets or drainage channels. Mud, dirt, gravel, sand and other materials tracked or dropped on
- Keep materials and soil stockpiles out of the rain and prevent runoff contamination from the site. Store materials, stockpiles and excavation soils under cover and protected from wind, rain, and runoff. Cover exposed piles of construction materials or soil with plastic sheeting or temporary roofs. Before rainfall events, sweep and remove material from surfaces that drain to storm inlets and/or drainage channels.
- Place trash cans around the site to reduce litter. Dispose of non-hazardous construction wastes in covered dumpsters or recycling receptacles.
- Keep dumpster lids closed and secured. For dumpsters or bins that don't have a lid, cover them with tarps or plastic sheeting, secured around the exterior of the dumpster or place them under temporary roofs. Never clean out a dumpster by hosing it down on the construction site.

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♦Concrete, Cement, & Masonry Products

- Concrete, cement, masonry products, sediment or pollutant laden water shall never be discharged into or allowed to reach
- the storm drain system. Avoid mixing excess amount of fresh concrete or cement mortar on-site.
- During tile cutting, ensure that the slurry water does not run off into the street or storm drain system. The discharge of slurry to the storm drain system is prohibited. Dried slurry must be cleaned up and disposed of properly.
- Concrete, cement, and masonry mixing containers may not be washed or rinsed into the street or storm drain system. If a concrete transit mixer is used, a suitable washout box, excavation or self-washing mixer able to contain waste material shall
- be provided on-site. Never wash or rinse mixing containers and tools into the gutter, street, storm drain inlet, drainage ditches or water body.
- If conducting sidewalk work, material stockpiles must be removed and cleaned up by the end of each day. Sweep or collect unused materials and debris that remain on pavement and dispose of properly.
- When the job is completed, collect all unused or waste materials and dispose of properly. Never leave or abandon materials onsite. Ensure that nothing has drifted towards the street, gutter or catch basin.

♦Site Clean Up

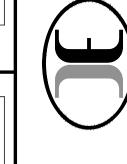
disposed of as hazardous waste.

- Clean up by sweeping instead of hosing down whenever possible. Dispose of litter and debris in the garbage The street, sidewalk and other paved areas may not be cleaned by washing or by directing sediment, concrete, asphalt, or
- other particles into the storm drain system. If water is used to flush sediment or particles from pavement, the water must be directed to a landscaped or grassy area large enough to absorb all the water. If conducting road or sidewalk work, materials stockpiles must be removed and cleaned up by the end of each work day. Discarded building materials and demolition wastes must never be left in a street, gully, or waterway. Dispose of all wastes

properly including leftover paint and chemicals. Materials that cannot be reused or recycled must be taken to the landfill or

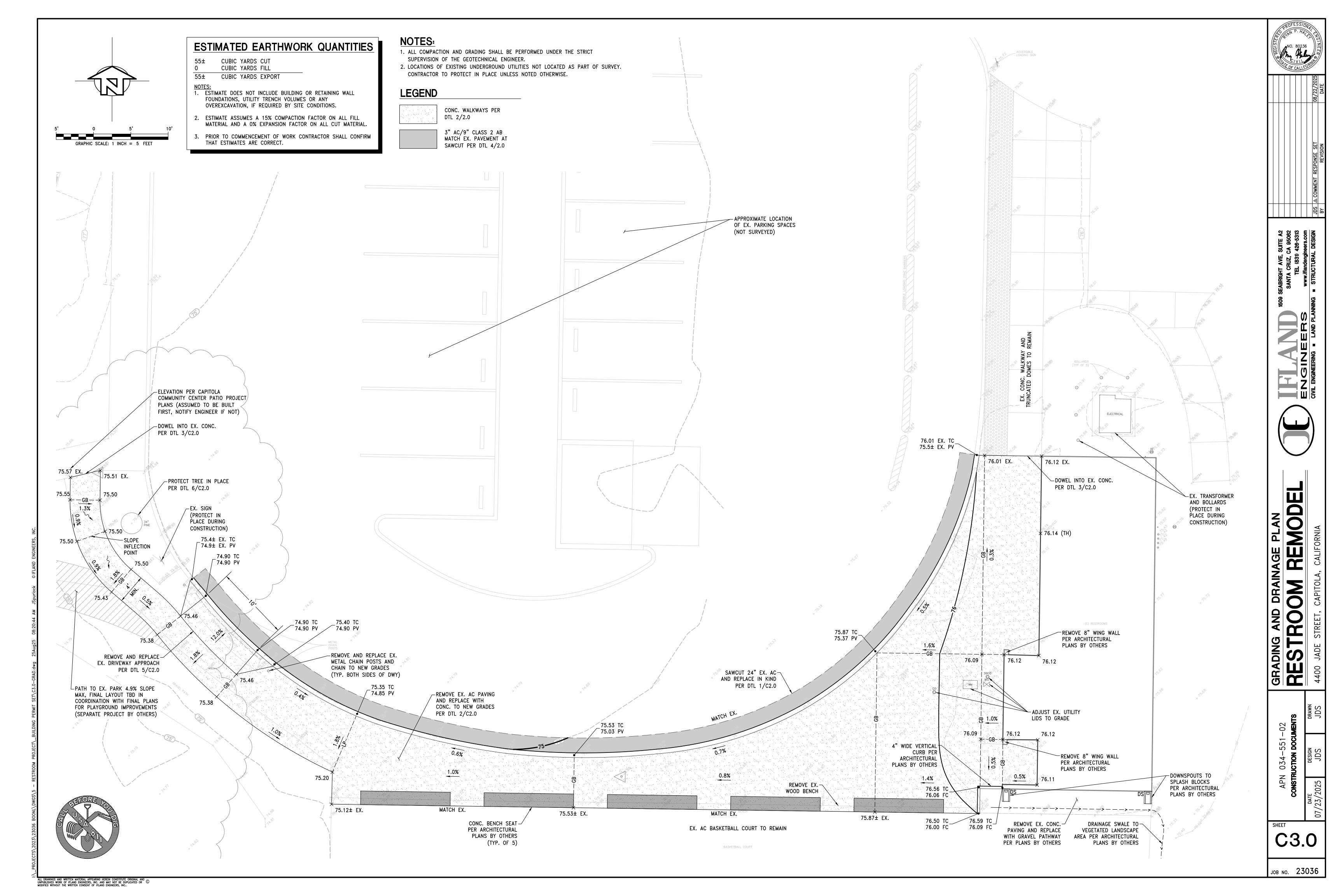
Signed and Agreed to by: Project Owner or General Contractor	
Signed:	Date:
Print Name:	

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JOB NO. 23036

NOTE: THE STANDARD DETAILS ON THIS PAGE ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER DOES NOT ACCEPT RESPONSIBILITY FOR THE CURRENCY OF THE DATA CONTAINED ON SAID DETAILS AND ENCOURAGES THE CONTRACTOR TO OBTAIN CURRENT COPIES FOR USE ON THE PROJECT. SHOULD ANY DISCREPANCIES BECOME EVIDENT BETWEEN THESE PLANS AND THE CURRENT DETAIL, THE ENGINEER SHALL BE CONSULTED PRIOR TO CONSTRUCTION.

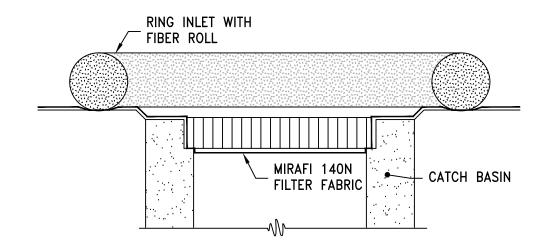


1. STOCKPILE SIZE AND LOCATIONS TO BE DETERMINED BY CONTRACTOR WITH ENGINEER'S APPROVAL.

2. USE OF NON-ACCESSIBLE PARKING STALLS FOR STOCKPILE AREA TO BE APPROVED BY OWNER PRIOR TO USE. IF AREA CANNOT BE USED, CONTRACTOR SHALL SECURE APPROVAL FOR AN ALTERNATE AREA OR ARRANGE FOR IMMEDIATE OFF-HAUL OF MATERIALS SUCH THAT STOCKPILING OF MATERIALS IS NOT NECESSARY.

DIRT STOCKPILE

2



INSPECTION AND MAINTENANCE:

- 1. FILTER FABRIC BARRIERS SHALL BE INSPECTED WEEKLY AFTER EACH SIGNIFICANT STORM - 1 INCH RAINFALL IN 24 HOUR PERIOD. ANY REQUIRED REPAIRS SHALL
- BE MADE IMMEDIATELY. 2. SEDIMENT SHOULD BE REMOVED WHEN IT REACHES 3" MAXIMUM HEIGHT. AT THAT TIME. INSPECT THE FILTER MATERIAL FOR TEARS AND CLEAN OR REPLACE AS REQUIRED.
- 3. THE REMOVED SEDIMENT SHALL BE DISTRIBUTED EVENLY ACROSS AREAS ON-SITE, CONFORM WITH THE EXISTING GRADE AND BE REVEGETATED OR OTHERWISE STABILIZED PER EROSION CONTROL NOTES.

CATCH BASIN PROTECTION

EROSION CONTROL NOTES

- THE EROSION CONTROL PLANS IN THIS SET SHALL BE REVIEWED AND IMPLEMENTED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL ENSURE THE SITE IS PROPERLY PROTECTED FROM POSSIBLE POLLUTANTS.
- 2. NO LAND CLEARING, GRADING OR EXCAVATION SHALL BE DONE BETWEEN OCTOBER 1ST AND APRIL 30TH. ANY DEVIATION FROM THIS CONDITION REQUIRES REVIEW AND APPROVAL OF A SEPARATE WINTER EROSION CONTROL PLAN BY ENVIRONMENTAL PLANNING PRIOR TO BEGINNING CONSTRUCTION. THE DEVELOPER SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING SITE EROSION CONTROL AT ALL
- 3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND THE PERMITTEE TO ENSURE THAT EROSION DOES NOT OCCUR FROM ANY ACTIVITY DURING OR AFTER PROJECT CONSTRUCTION. ADDITIONAL MEASURES, BEYOND THOSE SPECIFIED, MAY BE REQUIRED BY THE PLANNING DIRECTOR AS DEEMED NECESSARY TO CONTROL ACCELERATED EROSION.
- 4. PRIOR TO ANY FORECAST RAIN AND ANYTIME BETWEEN OCTOBER 1ST AND APRIL 30TH, AT THE END OF EACH WORKDAY, AT THE END OF EACH WORKWEEK, THE DEVELOPER SHALL IMPLEMENT ALL TEMPORARY MEASURES NECESSARY TO PREVENT EROSION AND SILTATION UNTIL THE PROJECT HAS BEEN FINALIZED. THESE MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, DIRECT SEEDING OF THE AFFECTED AREAS, STRAW MULCHING, AND/OR INSTALLATION OF STRAW BALE DAMS/SILT FENCES.
- 5. DURING CONSTRUCTION, NO TURBID WATER SHALL BE PERMITTED TO LEAVE THE SITE. USE OF SILT AND GREASE TRAPS, FILTER BERMS, OR SILT FENCES SHALL BE USED TO PREVENT SUCH DISCHARGE.
- 6. ALL AREAS ON- AND OFF-SITE EXPOSED DURING CONSTRUCTION ACTIVITIES, IF NOT PERMANENTLY LANDSCAPED PER PLAN, SHALL BE PROTECTED BY MULCHING AND/OR SEEDING WITH ANNUAL WINTER BARLEY.
- 7. ALL EXCAVATED MATERIAL SHALL BE REMOVED TO AN APPROVED DISPOSAL SITE OR DISPOSED OF ON-SITE IN A MANNER THAT WILL NOT CAUSE EROSION.
- 8. ANY MATERIAL STOCKPILED, FOR LONGER THAN 14 DAYS, DURING CONSTRUCTION SHALL BE COVERED WITH PLASTIC. 9. UPON COMPLETION OF CONSTRUCTION, ALL REMAINING EXPOSED SOILS SHALL BE
- PERMANENTLY REVEGETATED PER LANDSCAPING PLAN. THE PROTECTION REQUIRED BY SECTION 16.19.140 SHALL BE INSTALLED PRIOR TO CALLING FOR FINAL APPROVAL OF THE PROJECT AND AT ALL TIMES BETWEEN OCTOBER 1ST AND APRIL 30TH. SUCH PROTECTION SHALL BE MAINTAINED FOR AT LEAST ONE WINTER UNTIL PERMANENT PROTECTION IS ESTABLISHED.
- 10. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SEE THAT ADDITIONAL MEASURES NECESSARY TO CONTROL SITE EROSION AND PREVENT SEDIMENT TRANSPORT OFF-SITE ARE IMPLEMENTED.
- 11. ALL SPILLS AND/OR LEAKS SHALL BE IMMEDIATELY CLEANED UP AND MITIGATED PER THE SPILL RESPONSE REQUIREMENTS SPECIFIED IN THE CONTRACTOR'S O&M STANDARDS.

SITE HOUSEKEEPING NOTES

CONSTRUCTION MATERIALS

- ALL LOOSE STOCKPILED CONSTRUCTION MATERIALS THAT ARE NOT ACTIVELY BEING USED (I.E. SOIL, SPOILS, AGGREGATE, FLY-ASH, STUCCO, HYDRATED LIME, ETC.) SHALL BE COVERED AND BERMED.
- ALL CHEMICALS SHALL BE STORED IN WATERTIGHT CONTAINERS (WITH APPROPRIATE SECONDARY CONTAINMENT TO PREVENT ANY SPILLAGE OR LEAKAGE) OR IN A STORAGE SHED (COMPLETELY ENCLOSED).
- EXPOSURE OF CONSTRUCTION MATERIALS TO PRECIPITATION SHALL BE MINIMIZED. THIS DOES NOT INCLUDE MATERIALS AND EQUIPMENT THAT ARE DESIGNED TO BE OUTDOORS AND EXPOSED TO ENVIRONMENTAL CONDITIONS (I.E. POLES, EQUIPMENT PADS, CABINETS, CONDUCTORS, INSULATORS, BRICKS, ETC.).
- BEST MANAGEMENT PRACTICES TO PREVENT THE OFF-SITE TRACKING OF LOOSE CONSTRUCTION AND LANDSCAPE MATERIALS SHALL BE IMPLEMENTED.

WASTE MANAGEMENT

 DISPOSAL OF ANY RINSE OR WASH WATERS OR MATERIALS ON IMPERVIOUS OR PERVIOUS SITE SURFACES OR INTO THE STORM DRAIN SYSTEM SHALL BE PREVENTED.

- SANITATION FACILITIES SHALL BE CONTAINED (E.G. PORTABLE TOILETS) TO PREVENT DISCHARGES OF POLLUTANTS TO THE STORM WATER DRAINAGE SYSTEM OR RECEIVING WATER, AND SHALL BE LOCATED A MINIMUM 20 FEET AWAY FROM AN INLET, STREET OR DRIVEWAY, STREAM, RIPARIAN AREA OR OTHER DRAINAGE FACILITY.
- SANITATION FACILITIES SHALL BE INSPECTED REGULARLY FOR LEAKS AND SPILLS AND CLEANED OR REPLACED AS NECESSARY.
- COVER WASTE DISPOSAL CONTAINERS AT THE END OF EVERY BUSINESS DAY AND DURING A RAIN EVENT.
- DISCHARGES FROM WASTE DISPOSAL CONTAINERS TO THE STORM WATER DRAINAGE SYSTEM OR RECEIVING WATER SHALL BE PREVENTED.
- STOCKPILED WASTE MATERIAL SHALL BE CONTAINED AND SECURELY PROTECTED FROM WIND AND RAIN AT ALL TIMES UNLESS ACTIVELY BEING USED.
- PROCEDURES THAT EFFECTIVELY ADDRESS HAZARDOUS AND NON-HAZARDOUS SPILLS SHALL BE IMPLEMENTED. EQUIPMENT AND MATERIALS FOR CLEANUP OF SPILLS SHALL BE AVAILABLE ON SITE AND THAT SPILLS AND LEAKS SHALL BE CLEANED UP IMMEDIATELY AND DISPOSED OF PROPERLY. CONCRETE WASHOUT AREAS AND OTHER WASHOUT AREAS THAT MAY CONTAIN ADDITIONAL POLLUTANTS SHALL BE CONTAINED SO THERE IS NO DISCHARGE INTO THE UNDERLYING SOIL AND ONTO THE

VEHICLE STORAGE AND MAINTENANCE

SURROUNDING AREAS.

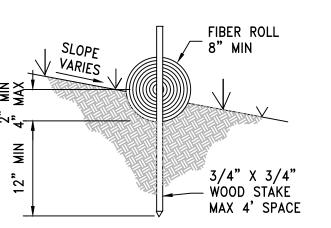
- MEASURES SHALL BE TAKEN TO PREVENT OIL, GREASE, OR FUEL TO LEAK IN TO THE GROUND, STORM DRAINS OR SURFACE WATERS.
- ALL EQUIPMENT OR VEHICLES, WHICH ARE TO BE FUELED, MAINTAINED AND STORED ON-SITE SHALL BE IN A DESIGNATED AREA FITTED WITH APPROPRIATE BMPs.
- LEAKS SHALL BE IMMEDIATELY CLEANED AND LEAKED MATERIALS SHALL BE DISPOSED OF PROPERLY.

LANDSCAPE MATERIALS

- CONTAIN STOCKPILED MATERIALS SUCH AS MULCHES AND TOPSOIL WHEN THEY ARE NOT ACTIVELY BEING USED.
- CONTAIN FERTILIZERS AND OTHER LANDSCAPE MATERIALS WHEN THEY ARE NOT ACTIVELY BEING USED.
- DISCONTINUE THE APPLICATION OF ANY ERODIBLE LANDSCAPE MATERIAL WITHIN 2 DAYS BEFORE A FORECASTED RAIN EVENT OR DURING PERIODS OF PRECIPITATION.
- APPLY ERODIBLE LANDSCAPE MATERIAL AT QUANTITIES AND APPLICATION RATES ACCORDING TO MANUFACTURE RECOMMENDATIONS OR BASED ON WRITTEN SPECIFICATIONS BY KNOWLEDGEABLE AND EXPERIENCED FIELD PERSONNEL.
- STACK ERODIBLE LANDSCAPE MATERIAL ON PALLETS AND COVERING OR STORING SUCH MATERIALS WHEN NOT BEING USED OR APPLIED.

NOTE: INSTALL FIBER ROLL ALONG CONTOUR. INSTALL A FIBER ROLL NEAR - SLOPE WHERE IT TRANSITIONS INTO A STEEPER SLOPE

TYPICAL INSTALLATION



ENTRENCHMENT DETAIL

CONSTRUCTION SPECIFICATIONS:

- PREPARE SLOPE BEFORE THE FIBER ROLL PROCEDURE IS STARTED. SHALLOW GULLIES SHOULD BE SMOOTHED AS WORK PROGRESSES. 2. DIG SMALL TRENCHES ACROSS SLOPE ON CONTOUR, TO PLACE FIBER ROLLS IN. THE TRENCH SHOULD BE DEEP ENOUGH TO ACCOMMODATE HALF THE THICKNESS OF THE FIBER ROLL. WHEN THE SOIL IS LOOSE AND UNCOMPACTED, THE TRENCH SHOULD BE DEEP ENOUGH TO BURY THE FIBER ROLL 2/3 OF ITS THICKNESS BECAUSE THE GROUND WILL SETTLE. IT IS CRITICAL THAT FIBER ROLLS ARE INSTALLED PERPENDICULAR TO WATER MOVEMENT, PARALLEL TO THE SLOPE CONTOUR.
- 5. START BUILDING TRENCHES AND INSTALL FIBER ROLLS FROM THE BOTTOM OF THE SLOPE AND WORK UP. 4. CONSTRUCT TRENCHES AT CONTOUR INTERVALS OF THREE TO EIGHT FEET APART DEPENDING ON STEEPNESS OF SLOPE. THE
- STEEPER THE SLOPE, THE CLOSER TOGETHER THE TRENCHES. 5. LAY THE FIBER ROLL ALONG THE TRENCHES FITTING IT SNUGLY AGAINST THE SOIL. MAKE SURE NO GAPS EXIST BETWEEN THE SOIL AND THE FIBER ROLL. USE A STRAIGHT BAR TO DRIVE HOLES THROUGH THE FIBER ROLL AND INTO THE SOIL FOR THE WOODEN
- 6. DRIVE THE STAKE THROUGH THE PREPARED HOLE INTO THE SOIL. LEAVE ONLY ONE OR TWO INCHES OF STAKE EXPOSED ABOVE FIBER ROLL. IF USING WILLOW STAKES REFER TO USDA SOIL CONSERVATION SERVICE TECHNICAL GUIDE. BIOENGINEERING. FOR GUIDELINES TO PREPARING LIVE WILLOW MATERIAL.
- 7. INSTALL STAKES AT LEAST EVERY FOUR FEET APART THROUGH FIBER ROLL. ADDITIONAL STAKES MAY BE DRIVEN ON THE DOWNSLOPE SIDE OF THE TRENCHES ON HIGHLY EROSIVE OR VERY STEEP SLOPES.

INSTALLATION AND MAINTENANCE:

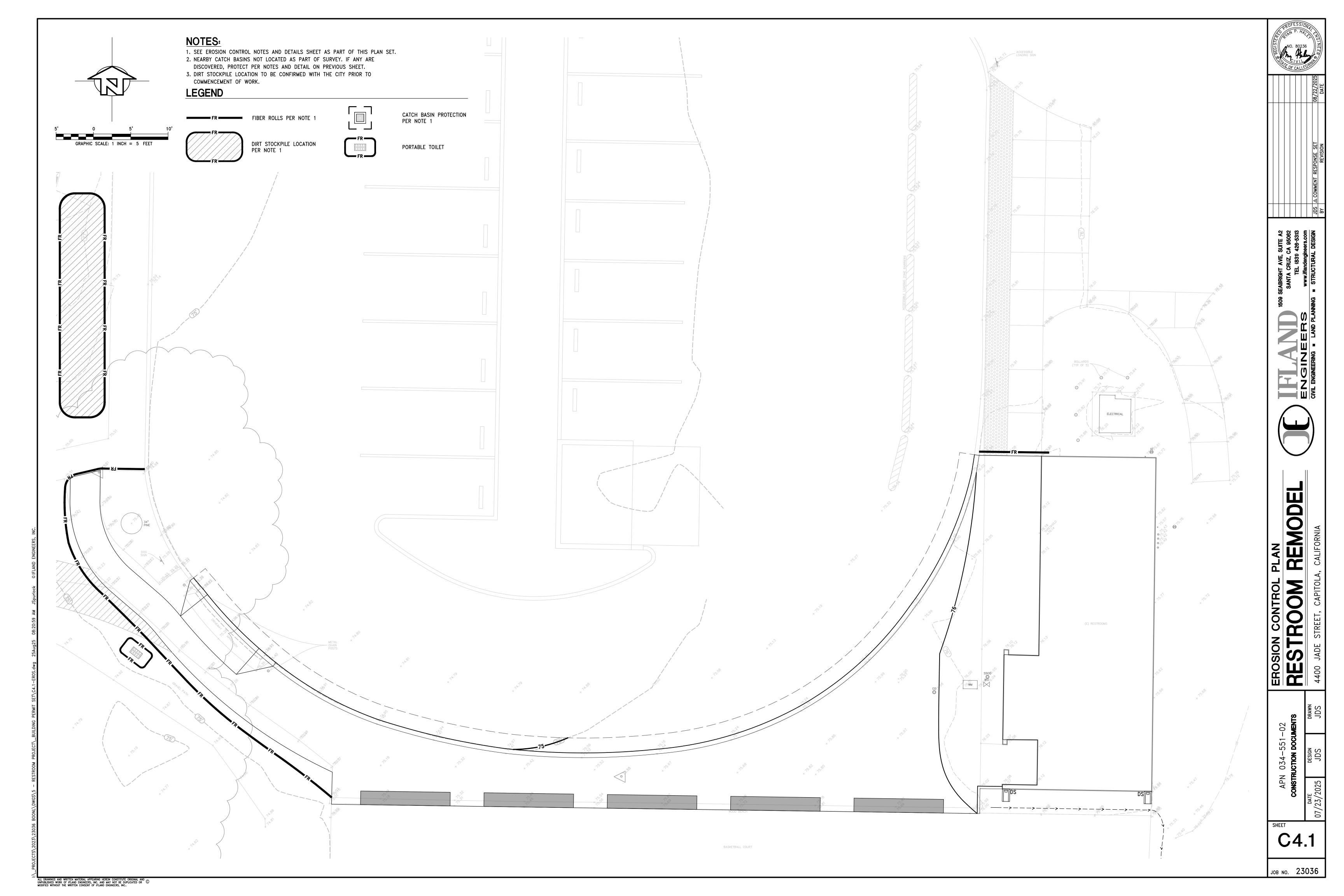
- 8. INSPECT THE FIBER ROLL AND THE SLOPES AFTER SIGNIFICANT STORMS. MAKE SURE THE FIBER ROLLS ARE IN CONTACT WITH THE
- 9. REPAIR ANY RILLS OR GULLIES PROMPTLY. 10. RESEED OR REPLANT VEGETATION IF NECESSARY UNTIL THE SLOPE IS STABILIZED.

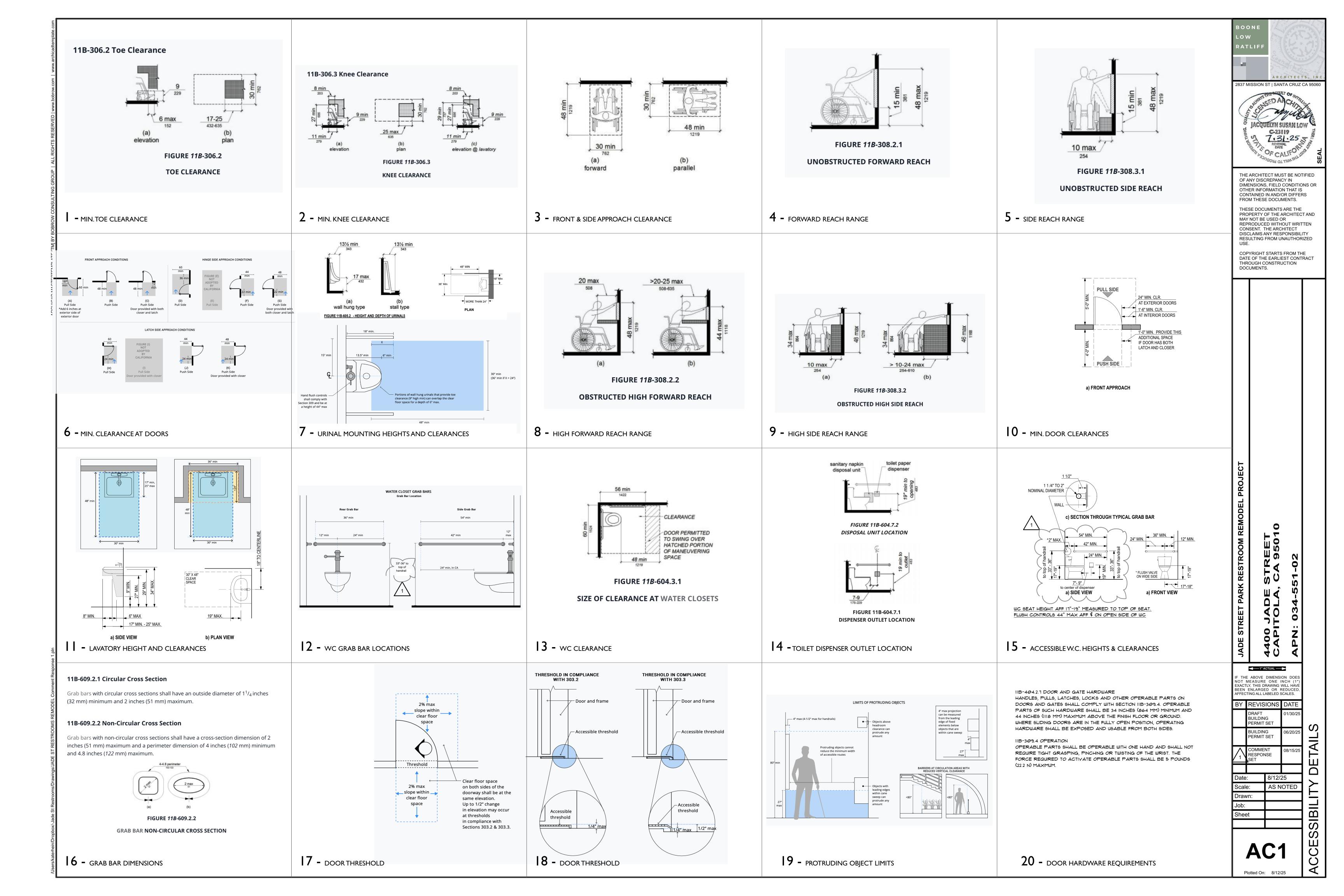
SLOPE INSTALLATION TABLE					
SLOPE	MAX FIBER ROLL SPACING (FT)				
4:1 (OR FLATTER)	20				
4:1 TO 2:1	15				
GREATER THAN 2:1	10				

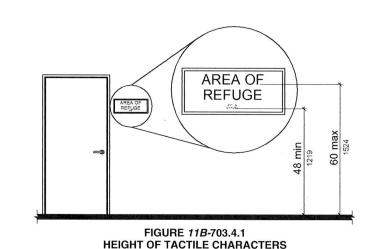
FIBER ROLLS



JOB NO. 23036







radius @ vertices eased/rounded chamfered FIGURE 11B-703.7.2.6.4

EDGES AND VERTICES ON GEOMETRIC SYMBOLS



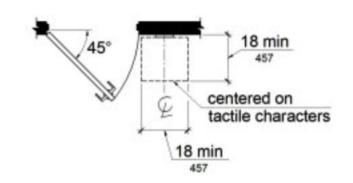
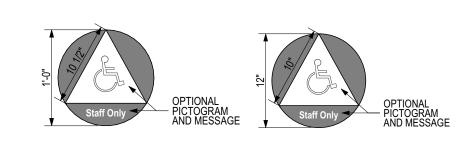
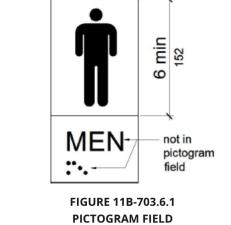


FIGURE *11B*-703.4.2

LOCATION OF TACTILE SIGNS AT DOORS



b) DOOR-MOUNTED SIGNAGE



EXAMPLE PICTOGRAM SHOWN (MEN'S)

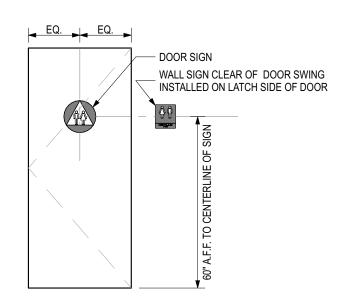
WOMEN'S TO MATCH REQUIREMENTS

6 - RESTROOM DOOR SIGNAGE DETAILS

- WALL MOUNTED TACTILE SIGNAGE WITH PICTOGRAM

- TACTILE SIGN MOUNTING HEIGHT

GEOMETRIC SYMBOLS AT ENTRANCES TO TOILET AND BATHING ROOMS SHALL BE MOUNTED AT 58 INCHES (1473 MM) MINIMUM AND 60 INCHES (1524 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE MEASURED FROM THE CENTERLINE OF THE SYMBOL. WHERE A DOOR IS PROVIDED THE SYMBOL SHALL BE MOUNTED WITHIN I INCH (25 MM) OF THE VERTICAL CENTERLINE OF THE DOOR.



d) MOUNTING LOCATIONS

- LOCATION OF DOOR SIGNAGE

ADULT CHANGING FACILITY: A ROOM IDENTIFICATION SIGN COMPLYING WITH SECTION 11B-216 SHALL BE PROVIDED AT SHALL BE "ADULT CHANGING ROOM".

AN INFORMATIONAL SIGN COMPLYING WITH SECTION 11B-216 SHALL BE PROVIDED WITHIN ADULT CHANGING FACILITIES AND IN CLOSE PROXIMITY TO THE CHANGING TABLE. THE INFORMATIONAL SIGN SHALL INDICATE THE MAXIMUM WEIGHT CAPACITY OF THE ADULT

LENTRANCES TO ADULT CHANGING FACILITIES. THE TEXT OF THE ROOM IDENTIFICATION SIGN

CHANGING TABLE, AS DETERMINED BY THE TABLE MANUFACTURER.

18 - ADULT CHANGING ROOM SIGNAGE

Z - GENERAL SIGNAGE DETAILS

BACKGROUND OR DARK ON A LIGHT BACKGROUND.

MEN'S TOILET: A TRIANGLE SYMBOL SHALL BE LOCATED AT ENTRANCES TO MEN'S TOILET AND BATHING FACILITIES. THE TRIANGLE SYMBOL SHALL BE AN EQUILATERAL TRIANGLE 1/4 INCH (6.4 MM) THICK WITH EDGES 12 INCHES (305 MM) LONG AND A VERTEX POINTING UPWARD. THE COLOR OF THE TRIANGLE SYMBOL SHALL CONTRAST WITH THE COLOR OF THE DOOR OR SURFACE ON WHICH THE TRIANGLE SYMBOL IS MOUNTED, EITHER LIGHT ON A DARK

WOMEN'S TOILET:

A CIRCLE SYMBOL SHALL BE LOCATED AT ENTRANCES TO WOMEN'S TOILET AND BATHING FACILITIES. THE CIRCLE SYMBOL SHALL BE 1/4 INCH (6.4 MM) THICK AND 12 INCHES (305 MM) IN DIAMETER. THE COLOR OF THE SYMBOL SHALL CONTRAST WITH THE COLOR OF THE DOOR OR SURFACE ON WHICH THE SYMBOL IS MOUNTED, EITHER LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND.

UNISEX TOILET:

A COMBINED CIRCLE AND TRIANGLE SYMBOL SHALL BE LOCATED AT ENTRANCES TO UNISEX TOILET. THE COMBINED CIRCLE AND TRIANGLE SYMBOL SHALL CONSIST OF A CIRCLE 9YMBOL 1/4 INCH (6.4 MM) THICK AND 12 INCHES (305 MM) IN DIAMETER WITH A 1/4 INCH (6.4 MM) THICK EQUILATERAL TRIANGLE SYMBOL SUPERIMPOSED ON AND GEOMETRICALLY INSCRIBED WITHIN THE 12-INCH (305 MM) DIAMETER OF THE CIRCLE SYMBOL. THE VERTICES OF THE TRIANGLE SYMBOL SHALL BE LOCATED 1/ 4 INCH (6.4 MM) MAXIMUM FROM THE EDGE OF THE CIRCLE SYMBOL WITH A VERTEX POINTING UPWARD. THE COLOR OF THE TRIANGLE SYMBOL SHALL CONTRAST WITH THE COLOR OF THE CIRCLE SYMBOL, EITHER LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND. THE COLOR OF THE CIRCLE SYMBOL SHALL CONTRAST WITH THE COLOR OF THE DOOR OR SURFACE ON WHICH THE COMBINED CIRCLE AND TRIANGLE SYMBOL IS MOUNTED, EITHER LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND.

22 - RESTROOM SIGNAGE REQUIREMENTS

SIGNAGE NOTES:

- REFER TO DETAILS ON SHEET ACI \$ AC2 FOR MOUNTING HEIGHTS AND ADDITIONAL SIGNAGE REQUIREMENTS.
- 2. ISA = INTERNATIONAL SYMBOL OF ACCESSIBILITY. SEE 2/AC2
- 3. ALL SIGNAGE TO COMPLY WITH CBC 2022 CHAPTER 11B-703.

GENERAL ACCESSIBILITY NOTES:

- 1. BOTTOM 10" OF ALL DOORS TO HAVE A SMOOTH, UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. CBC 11B-404.2.10
- 2. ELECTRICAL SWITCHES AND OUTLETS SHALL BE LOCATED NO MORE THAN 48" TO THE TOP OF BOX, NOR LESS THAN 15" TO THE BOTTOM OF BOX ABOVE FINISHED FLOOR. CBC 11B-308.1
- 3. WALLS AND PARTITIONS WITHIN 2 FEET OF WATER CLOSET \$ URINAL SHALL HAVE 9MOOTH, NON ABSORBENT SURFACE TO A HEIGHT OF 4 FEET ABOVE FLOOR. CBC 1210.2.2
- 4. TOILET FLOORS HAVE A SMOOTH, HARD, NONABSORBENT SURFACE. THE INTERSECTIONS OF SUCH FLOORS WITH WALLS SHALL HAVE SMOOTH, HARD, NONABSORBENT VERTICAL BASE THAT EXTENDS UPWARD ONTO THE WALL AT LEAST 4 INCHES. CBC 1210.2.1

RESTROOM ACCESSIBILITY NOTES:

- 1. RESTROOM PARTITION DOORS TO HAVE ADJUSTABLE HINGES WITH SELF-CLOSING MECHANISMS AND U-PULLS OR LOOPS BELOW LATCH AT COMPARTMENT INTERIOR PER CBC 11B-604.8.1.2.
- 2. PRIVACY LATCHES TO BE (N) COMPLIANT LATCHES PER CBC 11B-404.2.1
- 3. CLOTHING HOOKS TO BE INSTALLED MAX. 48" AFF.
- 4. CENTERLINE OF ACCESSIBLE TOILETS TO BE 17"-18" FROM SIDE WALL
- 5. CENTERLINE OF TOILET TISSUE DISPENSER TO BE 1"-9" FROM FRONT EDGE OF TOILET SEAT
- 6. ALL STALL HARDWARE TO BE ADA COMPLIANT AND LOCATED 34" 44" AFF

11B-703.4.2 Location Where a tactile sign is provided at a door, the sign shall be located alongside the door

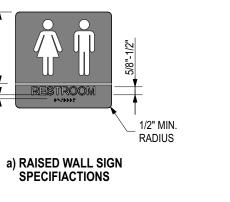
at the latch side. Where a tactile sign is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a tactile sign is provided at double doors with two active leafs, the sign shall be located to the right of the right hand door. Where there is no wall space at the latch side of a single door or at the right side of double doors, signs shall be located on the nearest adjacent wall. Signs containing tactile characters shall be located so that a clear floor space of 18 inches (457 mm) minimum by 18 inches (457 mm) minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position. Where provided, signs identifying permanent rooms and spaces **shall be located at the** entrance **to, and outside of the** room **or** space. Where provided, signs identifying exits shall be located at the exit door when approached in the direction of egress travel.

13 - TACTILE SIGN LOCATION @ DOORS FIG.

Exception: In alterations where sign installation locations identified in Section 11B-703.4.2 are obstructed or otherwise unavailable for sign installation, signs with tactile characters shall be permitted on the push side of doors with closers and without holdopen devices.

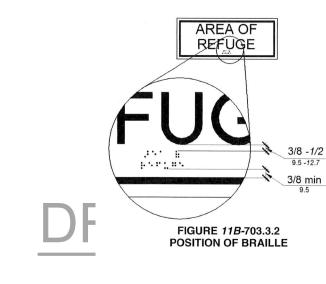
18 - TACTILE SIGN LOCATION @ DOORS NOTES

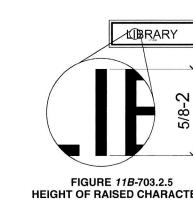
6 - RESTROOM SIGNAGE DETAILS











17 - BRAILLE SIGNAGE DETAILS



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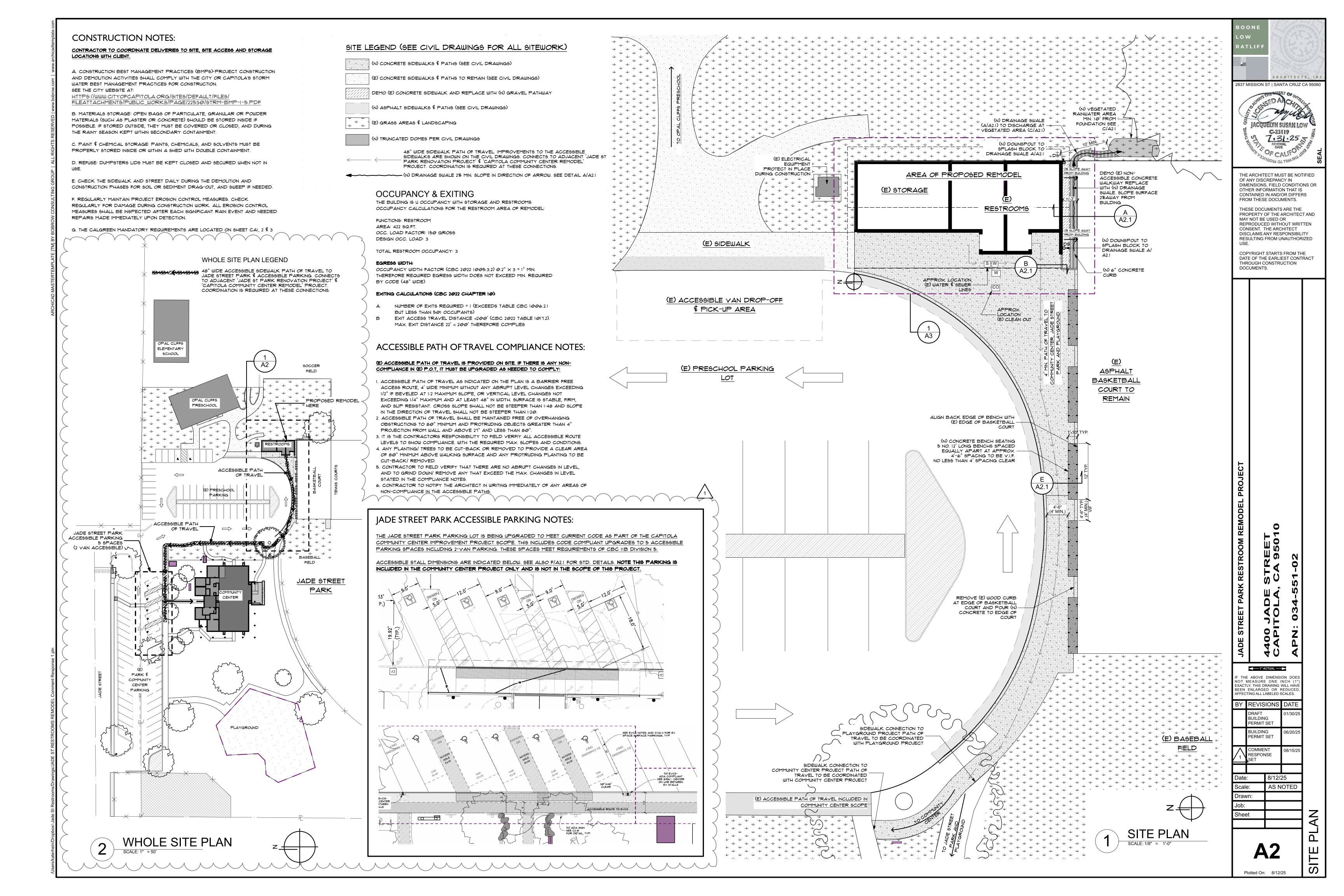
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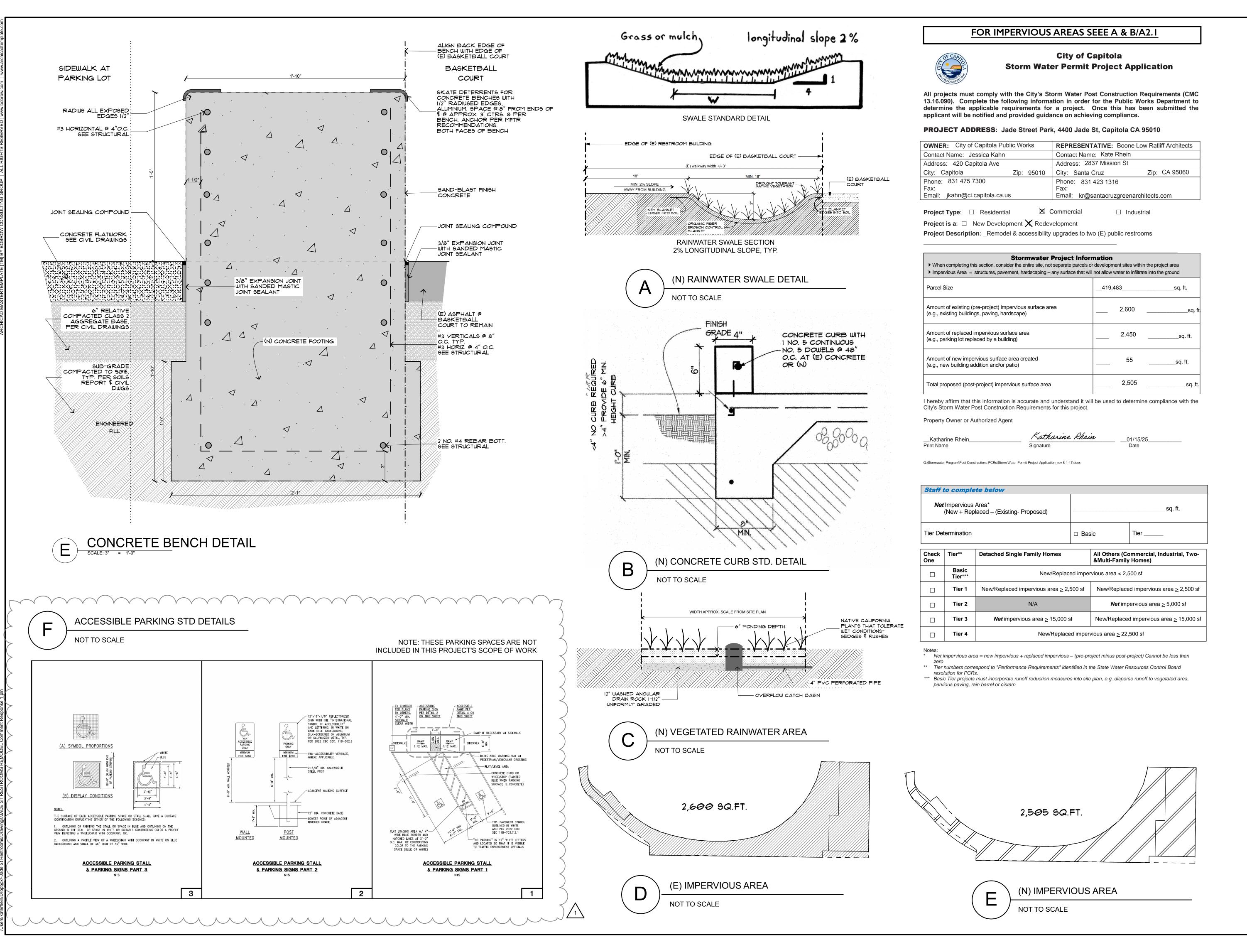
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8/12/25 AS NOTED

Plotted On: 8/12/25





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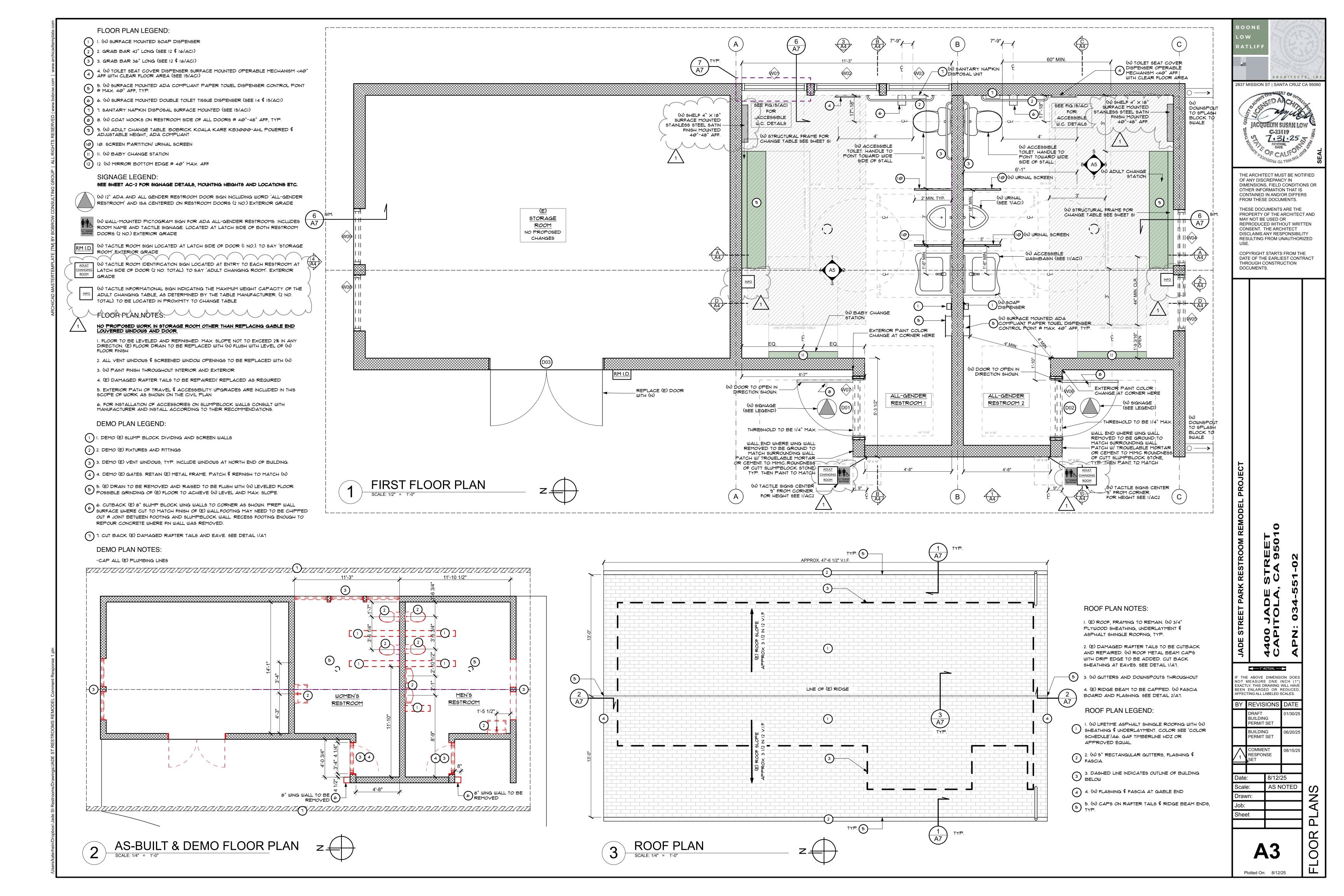
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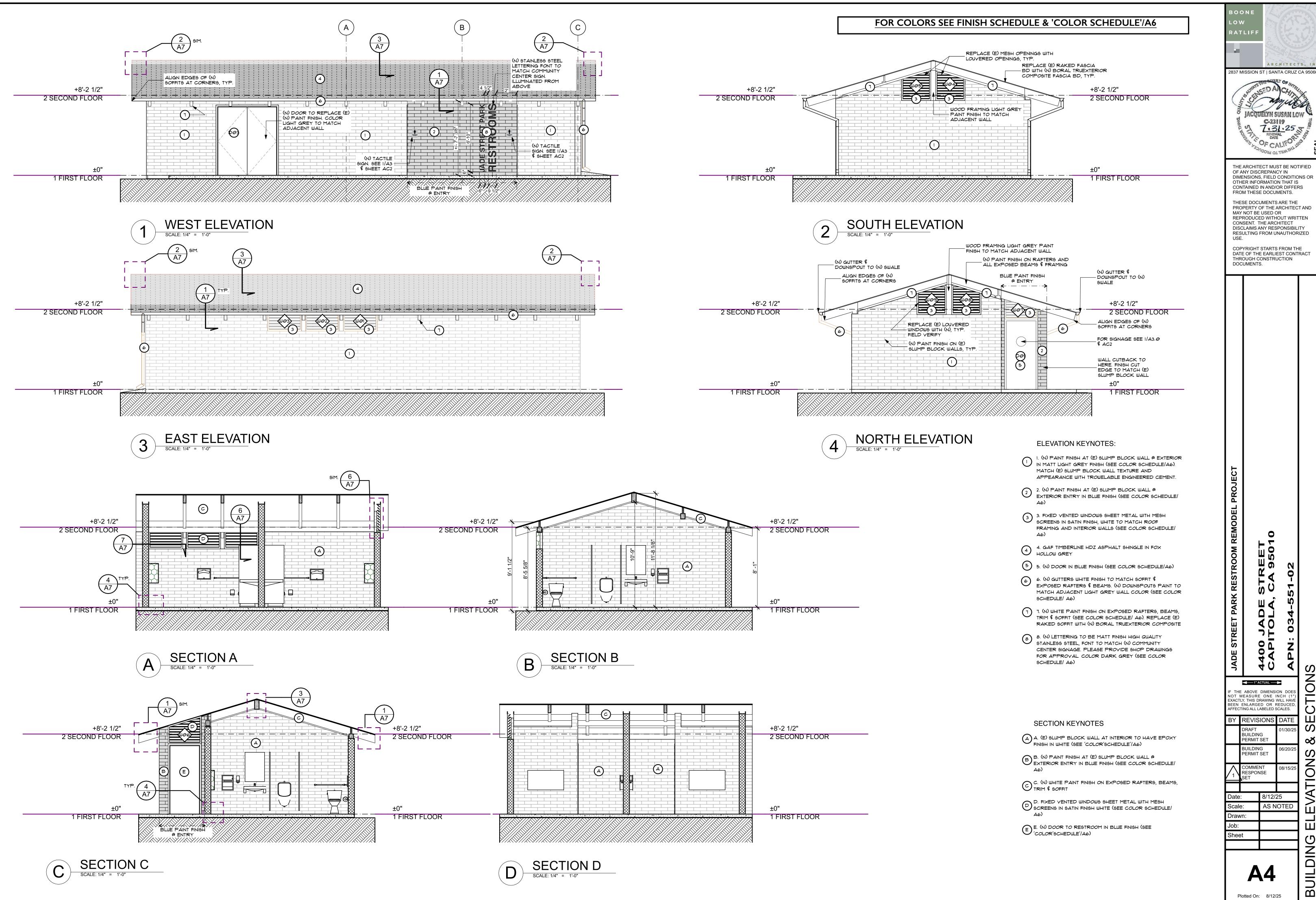
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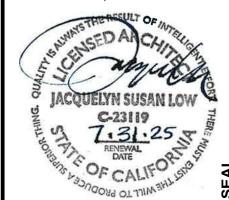
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8/12/25 AS NOTED





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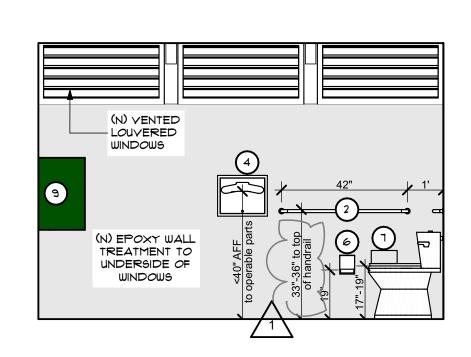
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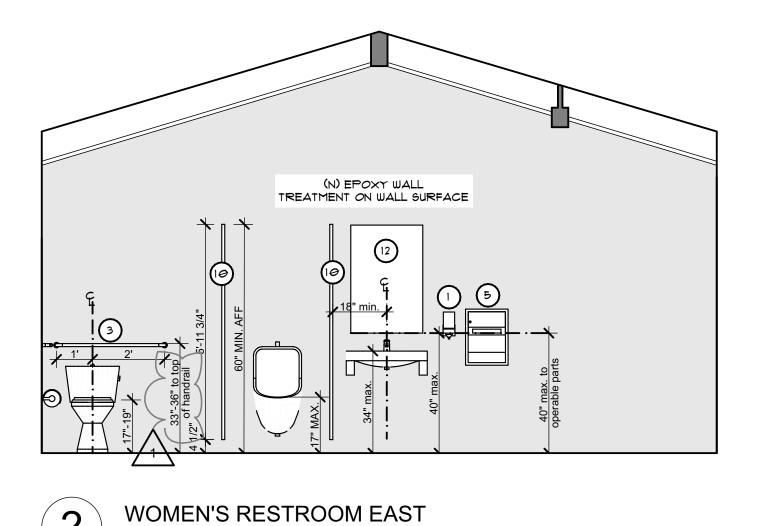
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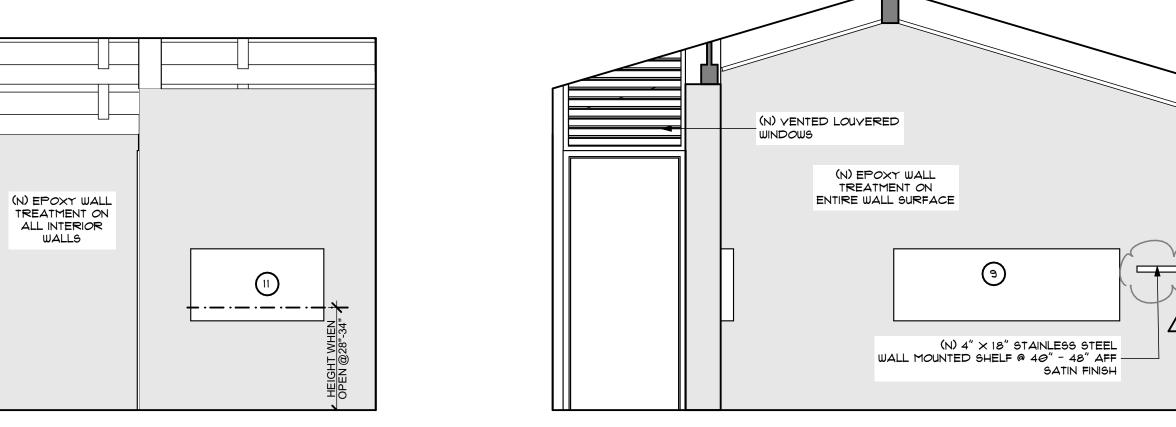
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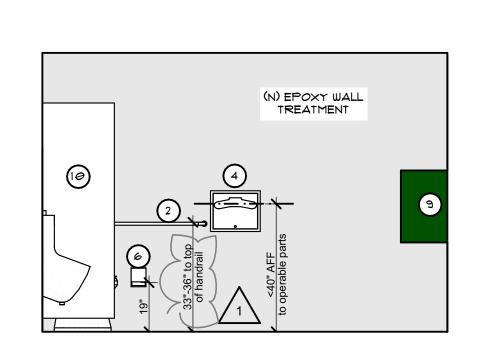


WOMEN'S RESTROOM EAST

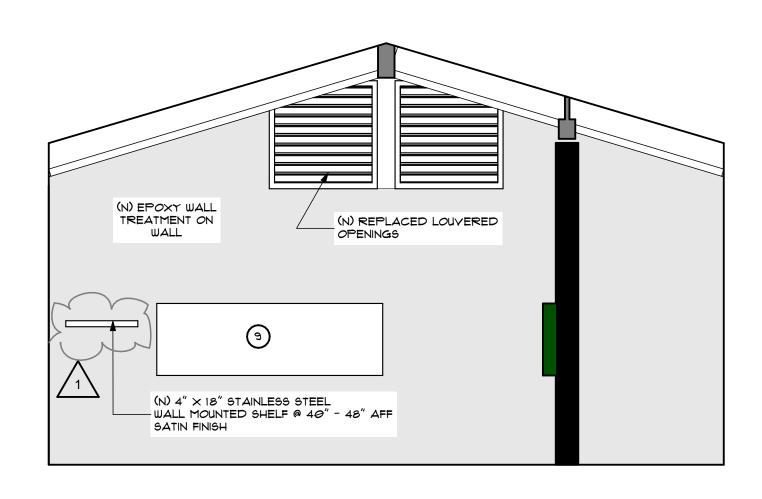


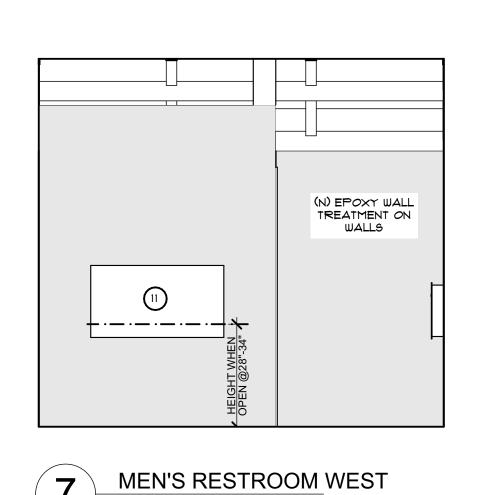




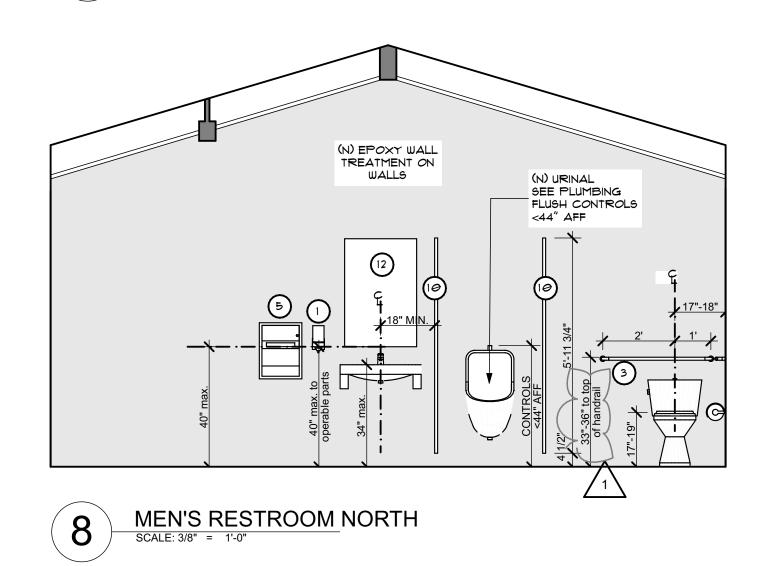


MEN'S RESTROOM EAST





WOMEN'S RESTROOM WEST



RESTROOM EQUIPMENT SCHEDULE

	1112	OI LOII IOA
	AUTOMATIC SOAP DISPENSER WALL MOUNTED	BOBRICK
2	GRAB BAR × 42"	BOBRICK 1 1/2" DIA.
3	GRAB BARS × 36"	BOBRICK 1 1/2" DIA.
4	SEAT COVER DISPENSER SURFACE MOUNTED	BOBRICK STAINLESS
5	PAPER TOWEL DISPENSER/ WASTE RECEPTACLE SURFACE-MOUNTED	BOBRICK AUTOMAT
6	TOILET TISSUE DISPENSER SURFACE MOUNTED	BOBRICK MULTI-RO
1	SANITARY NAPKIN DISPOSAL SURFACE MOUNTED	BOBRICK STAINLESS
8	COAT HOOKS SURFACE MOUNTED	BOBRICK STAINLESS
©	ADULT CHANGE TABLE	BOBRICK

ANGLE FRAME TEMPERED

SCREEN PARTITIONS/ URINAL SCREEN

BABY CHANGE

(12) MIRROR

L	E			
	SPECIFICATION	FINISH	QUANTITY	CODE REFERENCE
	BOBRICK B-2012, OR APPROVED EQUAL	SATIN	2	8 \$ 9/ACI
	BOBRICK B-6806 \times 42", OR APPROVED EQUAL 1 1/2" DIA. STAINLESS STEEL WITH SNAP FLANGE	SATIN	2	12, 13, 15 \$ 16/ACI
	BOBRICK B-6806 \times 36" OR APPROVED EQUAL 1 1/2" DIA. STAINLESS STEEL WITH SNAP FLANGE	SATIN	2	12, 13, 15 \$ 16/ACI
	BOBRICK B-221 CLASSIC SERIES, OR APPROVED EQUAL STAINLESS STEEL	SATIN	2	14 \$ 15/ ACI
	BOBRICK B-3949 CLASSIC SERIES, OR APPROVED EQUAL AUTOMATIC UNIVERSAL ROLL. STAINLESS STEEL	SATIN	2	8 \$ 9/ ACI
	BOBRICK B-2888, OR APPROVED EQUAL MULTI-ROLL. STAINLESS STEEL	SATIN	2	14 \$ 15/ ACI
	BOBRICK B-270 CONTURA SERIES, OR APPROVED EQUAL STAINLESS STEEL	SATIN	2	14 \$ 15/ ACI
	BOBRICK B-233, OR APPROVED EQUAL STAINLESS STEEL	SATIN	2	-
	BOBRICK KOALA KARE KB3000-AHL POWERED \$ ADJUSTABLE HEIGHT	GREY/ SATIN	2	-
	BOBRICK SIERRA SERIES 2092, OR APPROVED EQUAL SOLID COLOR REINFORCED COMPOSITE, FLOOR MOUNTED	9CØ2 DESERT BEIGE		7/ ACI
	BOBRICK KOALA KARE KB-300 99 IN GREY 01 HORIZONTAL SURFACE MOUNTED. STAINLESS STEEL VENEER	GREY OI SATIN	2	-

BOBRICK B-2908 2436 GLASS MIRROR WITH STAINLESS STEEL SATIN

MEN'S RESTROOM SOUTH

RESTROOM ACCESSIBILITY NOTES:

1. CLOTHING HOOKS TO BE INSTALLED MAX. 48" AFF.

2. CENTERLINE OF ACCESSIBLE TOILETS TO BE 17"-18" FROM SIDE WALL

3. CENTERLINE OF TOILET TISSUE DISPENSER TO BE 1"-9" FROM FRONT EDGE OF

4. ALL HARDWARE TO BE ADA COMPLIANT AND LOCATED 34" - 44" AFF

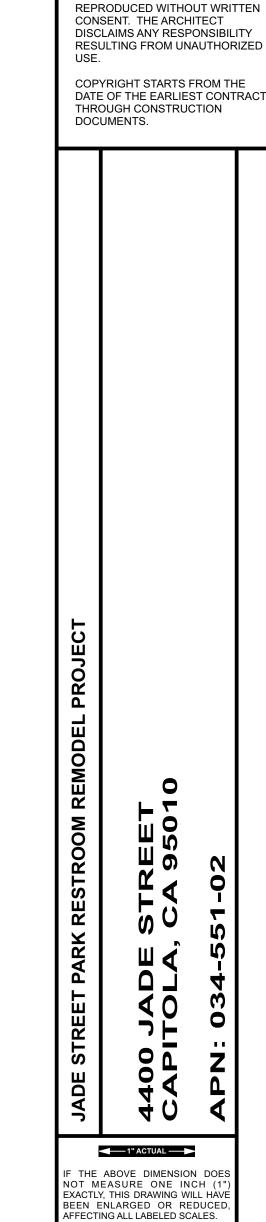
5. TOILET HANDLE TO POINT TO OPEN SIDE OF CUBICLE IN ACCESSIBLE COMPARTMENTS.

GENERAL ACCESSIBILITY NOTES:

1. BOTTOM 10" OF ALL DOORS TO HAVE A SMOOTH, UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. CBC 11B-404.2.10

2. WALLS AND PARTITIONS WITHIN 2 FEET OF WATER CLOSET \$ URINAL SHALL HAVE SMOOTH, NON ABSORBENT SURFACE TO A HEIGHT OF 4 FEET ABOVE FLOOR. CBC 1210.2.2

3. TOILET FLOORS HAVE A SMOOTH, HARD, NONABSORBENT SURFACE. THE INTERSECTIONS OF SUCH FLOORS WITH WALLS SHALL HAVE SMOOTH, HARD, NONABSORBENT VERTICAL BASE THAT EXTENDS UPWARD ONTO THE WALL AT LEAST 4 INCHES. CBC 1210.2.1



2837 MISSION ST | SANTA CRUZ CA 95060

7.31.25 RENEWAL DATE

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8/12/25 **AS NOTED**

BY REVISIONS DATE

DRAFT BUILDING PERMIT SET BUILDING PERMIT SET

COMMENT RESPONSE



STANDARD DOOR NOTES - ACCESSIBILITY:

REFER TO SPECIFICATION 08 7100 FOR DOOR HARDWARE. ALL (N) DOORS TO COMPLY WITH THE FOLLOWING:

- 1. THRESHOLDS ARE NOT TO EXCEED MAXIMUM HEIGHT 1/2" ABOVE FFL BETWEEN 1/4" \$ 1/2" THRESHOLD TO BE BEVELLED WITH SLOPE LESS THAN 1 IN 2 PER DETAILS 8 AND 9 SHEET A2.5
- 2. ALL OPERABLE DOOR HARDWARE TO BE MOUNTED 34"MIN. TO 44" MAX. AFF
- 3. DOORS TO HAVE 10" KICK PLATES ON PUSH SIDE.
- 4. DOOR CLOSER AND SPRING HINGES ARE TO COMPLY WITH CBC 11B-404.2.8: DOOR CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5
- 5. DOOR SPRING HINGES ARE TO COMPLY WITH CBC 11B-404.2.8.2: SPRING HINGES SHALL BE ADJUSTED SO THAT FROM THE OPEN POSITION OF 10 DEGREES, THE DOOR SHALL MOVE TO THE CLOSED POSITION IN 1.5 SECONDS MINIMUM.
- 6. DOOR OPENING FORCE IS TO COMPLY WITH CBC 11B-404.2.9: THE FORCE FOR PUSHING OR PULLING OPEN A DOOR WILL BE 5
- POUNDS (22.2 N) MAXIMUM, OR AS FOLLOWS; A. INTERIOR HINGED DOORS: 5 POUNDS (22.2 N) MAX.
- B. REQUIRED FIRE DOORS: MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY NOT TO EXCEED 15 POUNDS (66.7 N)
- C. EXTERIOR HINGED DOORS: 5 POUNDS (22.2 N) MAX. D. THE 5 POUND (22.2 N) MAXIMUM FORCE SHALL BE VALIDATED FOR THE SIZE OF THE DOOR USED. THE BUILDING MATERIALS LISTING OF THE CALIFORNIA STATE FIRE MARSHAL SHALL INDICATE THAT THE DOOR HARDWARE MEETS THE 5 POUND (22.2 N) FORCE
- AND SHALL ALSO LIST THE LARGEST DOOR THAT CAN BE USED. 1. DOOR CLOSERS TO PROVIDE A MIN. 5 SECOND SWEEP PERIOD PER CBC 11B-404.2.8.1
- 8. OPERABLE HARDWARE ON ACCESSIBLE DOORS SHALL COMPLY WITH CBC SECTION 11B-309.4 AND SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. 9. WHERE SLIDING DOORS ARE IN THE FULLY OPEN POSITION, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH
- 1. FLOOR STOPS SHALL NOT BE LOCATED IN THE PATH OF TRAVEL

DOOR/ GATE NOTES:

PLEASE REFER TO STD DETAILS 10, 17, 18 \$ 201 ACI

1) COLOR AS NOTED ON SCHEDULE. GALYANIZED STAINLESS STEEL PRIMED TO BE PAINTED IN THE FIELD. HARDWARE TO BE CHOSEN BY OWNER.

2) GENERAL CONTRACTOR TO CONFIRM JAMB SIZE.

3) GENERAL CONTRACTOR. TO CONFIRM DIMENSIONS OF OPENINGS \$ DOORS BEFORE ORDERING.

4) COLOR TO BE CONFIRMED BY OWNER

FINISH NOTES:

SEE 'COLOR SCHEDULE' FOR SELECTED COLORS

- ALL INTERIOR AND EXTERIOR PAINTS TO BE NO/LOW YOC.SEE CAL GREEN CODE 4.504
- ALL INTERIOR WINDOW AND DOOR TRIM TO BE SEMI-GLOSS PAINT UNLESS NOTED.
- ALL TRIM TO BE FINGER-JOINTED
- ALL CONCRETE FLOORS TO BE LEVELED PER FLOOR PLANS \$ CHECKED FOR MOISTURE CONTENT AND SEALED PER SPECIFICATION

FLOOR

SEAMLESS POURED EPOXY FLOOR SYSTEM. DEX-O-

SEAMLESS POURED EPOXY FLOOR SYSTEM. DEX-O-

TEX TEKCRETE SL B WITH BROADCAST FLINT SHOT

EQUAL. COLOR 304 SANDPIPER BEIGE. EXTEND 6" CONTINUOUS 6" HIGH WITH 3/8"

EQUAL. COLOR 304 SANDPIPER BEIGE. EXTEND 6" CONTINUOUS 6" HIGH WITH 3/8"

TEX TEKCRETE SL B WITH BROADCAST FLINT SHOT

UNDER QUIKGLAZE TOP COAT OR APPROVED

UP WALL TO PROVIDE COVED BASE. TO BE

APPLICATORS

APPLICATORS

INSTALLED BY FACTORY TRAINED DEX-0-TEX

UNDER QUIKGLAZE TOP COAT OR APPROVED

UP WALL TO PROVIDE COVED BASE. TO BE

INSTALLED BY FACTORY TRAINED DEX-0-TEX

WALLBASE

EPOXY INTEGRAL TO FLOOR

EPOXY INTEGRAL TO FLOOR

MIN. RADIUS COVE

MIN. RADIUS COVE

WALL

PREP FOR FLEX GLAZING SYSTEM

PREP FOR FLEX GLAZING SYSTEM

JOINTS WITH BLOCK FILLER TO BY OWNER

JOINTS WITH BLOCK FILLER TO BY OWNER

NTERIOR WALLS: EPOXY WALL

TREATMENT. DEX-0-TEX FLEX

NTERIOR WALLS: EPOXY WALL

TREATMENT. DEX-0-TEX FLEX

CEILING

(N) GLOSS PAINT FINISH, TYP. IN

(N) GLOSS PAINT FINISH, TYP. IN

GLAZE WALL SYSTEM. FILL CRACKS WHITE- COLOR TO BE CONFIRMED

GLAZE WALL SYSTEM. FILL CRACKS WHITE- COLOR TO BE CONFIRMED

- EQUIPMENT FINISHES TO BE STAINLESS STEEL, SATIN FINISH, TYP.
- MOUNTING HEIGHTS TO COMPLY WITH ACCESSIBLE DESIGN \$ ADA STANDARD HEIGHTS, TYP.

AREA APPROX.

180.20

180.20

- INSTALL PER MANUFACTURER'S RECOMMENDATIONS
- PAINT ALL EXPOSED PIPES TO MATCH ADJACENT WALL

IDOW SCHED	DW SCHEDULE									
II		₩ ⊘ 1	W ⊘ 2	₩@3	₩@4	WØ5	W@6	₩ ⊘ ٦	₩ ⊘ 8	ۯW
SIZE	WIDTH	3'-6"	3'-6"	3'-6"	3′	3′	3 [′] -5"	3 [′] -5"	3′	3'
91 2E	HEIGHT	1'-9 1/4"	1'-9 1/4"	1'-9 1/4"	3'	3′	3′	3'	3′	3'
HEADER HEIGHT		8'-1 1/2"	8'-1 1/2"	8'-1 1/2"	10'-8"	10'-8"	10'-2"	10'-2"	10'-8"	10'-8"
TYPE		FIXED VENT LOUVERED WINDOW	FIXED VENT LOUVERED WINDOW	FIXED VENT LOUVERED WINDOW	FIXED VENT LOUVERED WINDOW	FIXED VENT LOUVERED WINDOW	FIXED YENT LOUVERED WINDOW	FIXED VENT LOUVERED WINDOW	FIXED YENT LOUVERED WINDOW	FIXED VENT LOUVERED WINDOW
FRAME MATERIAL		GALVANIZED STEEL	GALVANIZED STEEL	GALVANIZED STEEL						
COLOR/ FINISH		PAINT FINISH (SEE COLOR SCHEDULE)	PAINT FINISH (SEE COLOR SCHEDULE)	PAINT FINISH (SEE COLOR SCHEDULE)						
NOTES		FIXED METAL SCREEN MESH	FIXED METAL SCREEN MESH	FIXED METAL SCREEN MESH						
VIEW FROI	M OUTSIDE				3' VIF	3'VIF	A'-9 1/2" A VIF VIF Z'-10" VIF	2'-10" VIF / / / / / / / / / / / / / / / / / / /	3'VIF (42'-2" VIF (3'VIF)

WINDOW SCHEDULE

WINDOW NOTES:

1) ALL VENT WINDOWS TO BE CUSTOM SHEET METAL UNLESS NOTED. GALVANIZED STAINLESS STEEL PRIMED TO BE PAINTED IN THE FIELD. EXTERIOR COLOR -DARK GREY/ BLACK TBD, INTERIOR COLOR - DARK GREY/ BLACK TBD. SEE COLOR SCHEDULE.

2) GENERAL CONTRACTOR TO CONFIRM JAMB SIZE

3) GENERAL CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING ALL (N) WINDOWS \$ DOORS

4) COLOR TO BE CONFIRMED BY OWNER

NOTES

PROVIDE 12" × 12" FLOORING \$ WALL FINISH

PROVIDE 12" × 12" FLOORING \$ WALL FINISH

SAMPLE FOR APPROVAL

SAMPLE FOR APPROVAL

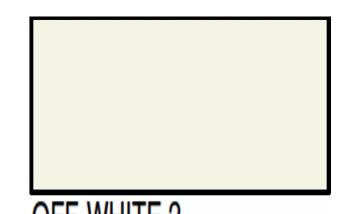
5) PROVIDE SAMPLE OF LOUVER \$ SCREENS TO OWNER AND ARCHITECT FOR

COLOR SCHEDULE:

COLORS HAVE BEEN SELECTED TO COORDINATE WITH THE REMODELED COMMUNITY CENTER. THE DESIGN IS INSPIRED BY COLORS FROM THE CAPITOLA WHARF AND BEACH. ALL COLORS ARE TO BE CONFIRMED BY OWNER.







EPOXY WALLS IN DEX-O-TEX WALL COATING SYSTEM OFF-WHITE 2

CEILING \$ RAFTERS GLOSS PAINT FINISH BENJAMIN MOORE HISTORICAL COLOR IN SIMPLY WHITE OC-117 304 Sandpiper Beige

EPOXY FLOORS IN SANDPIPER SCRS PARTITIONS IN BEIGE DESERT BEIGE SCO2

EXTERIOR COLORS:



- EXTERIOR SLUMP BLOCK WALLS TO BE PAINTED LIGHT GREY TO BE COLOR MATCHED TO (N) LIGHT GREY SIDING AT COMMUNITY CENTER: BENJAMIN MOORE HC-172 REVERE PEWTER - DOWNSPOUTS TO MATCH ADJACENT WALL COLOR

> RESTROOMS SIGNAGE LETTERS TO BE METAL DARK GREY/ BLACK MATT FINISH: BENJAMIN MOORE HC-190 BLACK TO MATCH COMMUNITY CENTER STOREFRONT \$

WINDOWS

BLUE HIGHLIGHT COLOR MATCHED TO BENJAMIN MOORE HISTORICAL COLOR IN JAMESTOWN BLUE HC-148

NSPIRATION: OCEAN/ ONTEMPLATION

-EXTERIOR SLUMP BLOCK WALL AT ENTRY TO BE BLUE TO MATCH COMMUNITY CENTER. -RESTROOM DOORS TO BE MATCHING BLUE

> **BENJAMIN MOORE** HISTORICAL COLOR IN SIMPLY WHITE OC-117

GAF TIMBERLINE HDZ COOL ROOF SHINGLES IN FOX HOLLOW GRAY

-RAFTERS, CEILING, ROOF FRAMING, SOFFITS AND WOOD TRIM TO BE WHITE TO MATCH COMMUNITY CENTER -GUTTERS TO MATCH - VENT WINDOWS \$ METAL FRAMES TO MATCH

WOMEN'S RESTROOM

FINISH SCHEDULE

MEN'S RESTROOM

ROOM NAME

FINISH SCHEDULE

Δ.

つ ⊢

─1" ACTUAL **─**

THE ABOVE DIMENSION DO

EXACTLY, THIS DRAWING WILL HAV

BEEN ENLARGED OR REDUCEI FFECTING ALL LABELED SCALES.

> BUILDING PERMIT SET

BUILDING

ERMIT SET

COMMENT

RESPONSE

REVISIONS DATE

8/12/25

AS NOTED

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OOR

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7.31.25

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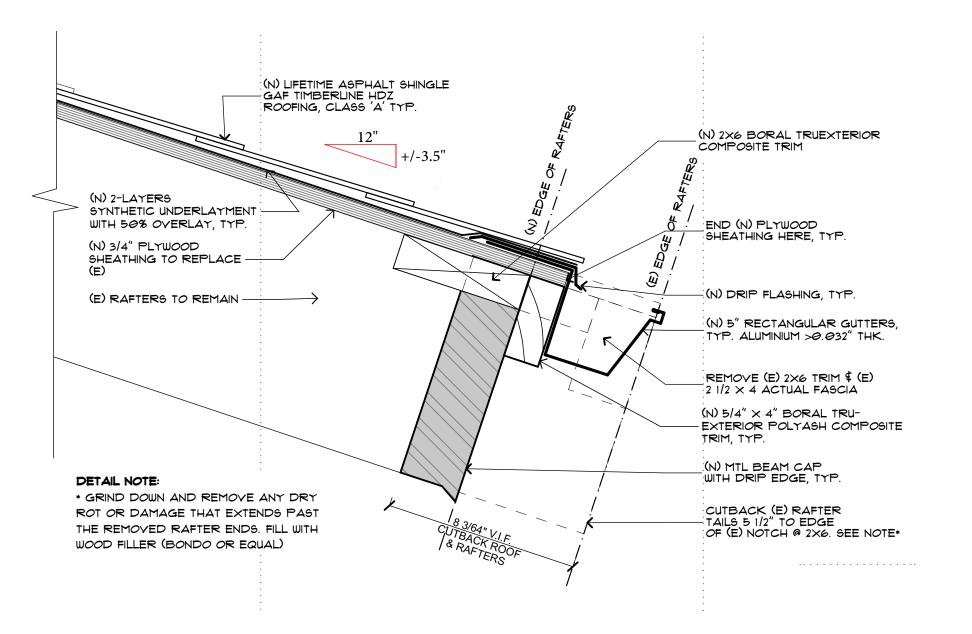
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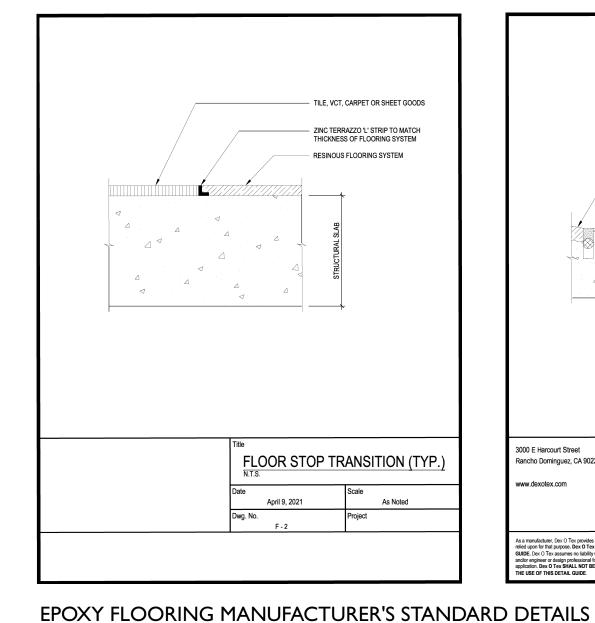
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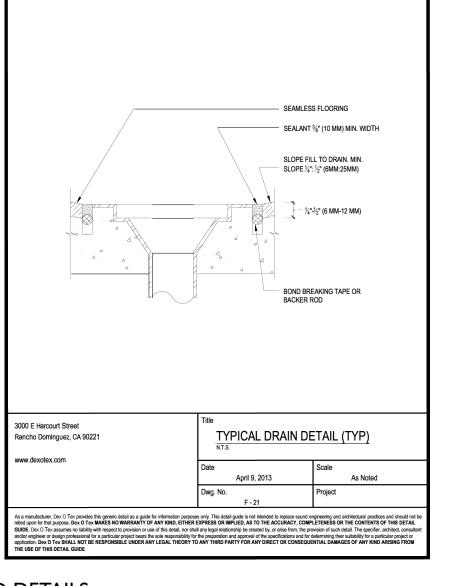
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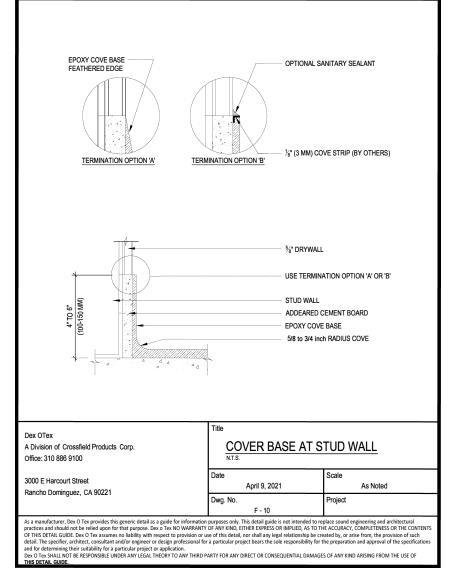
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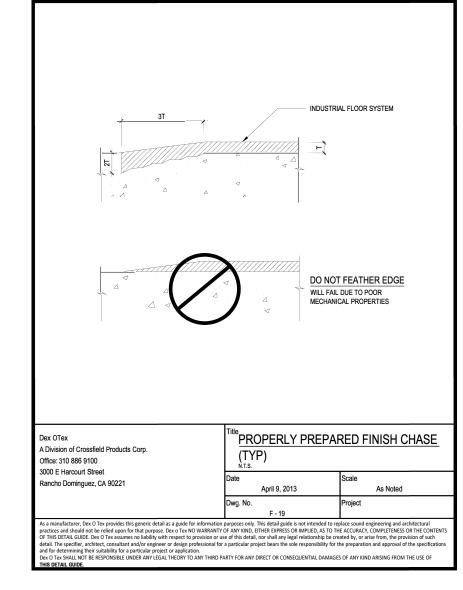


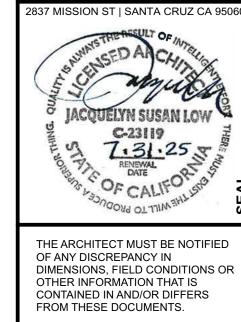


SCALE: 3" = 1'-0"







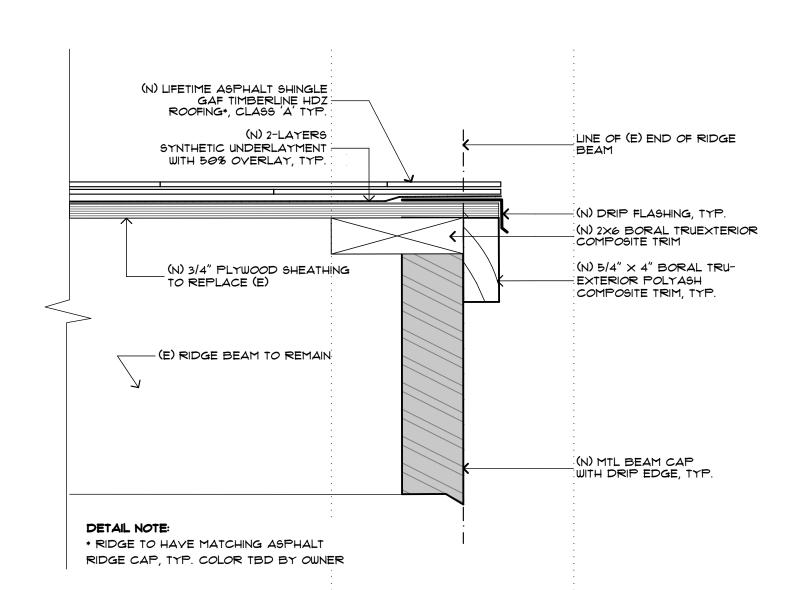


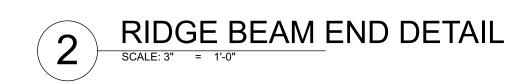
ARCHITECTS. II

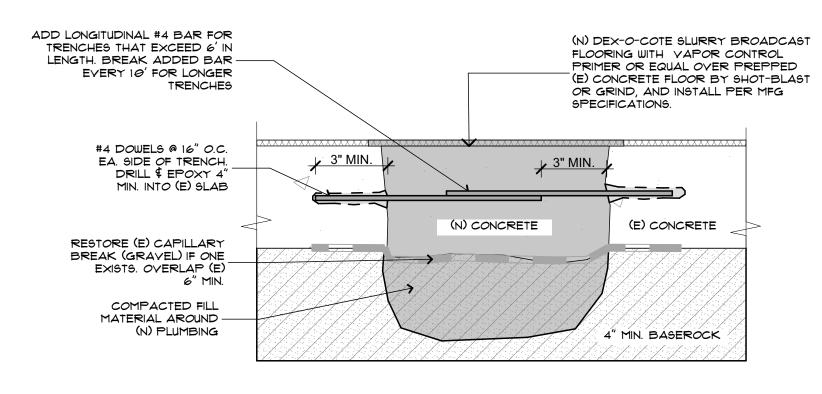
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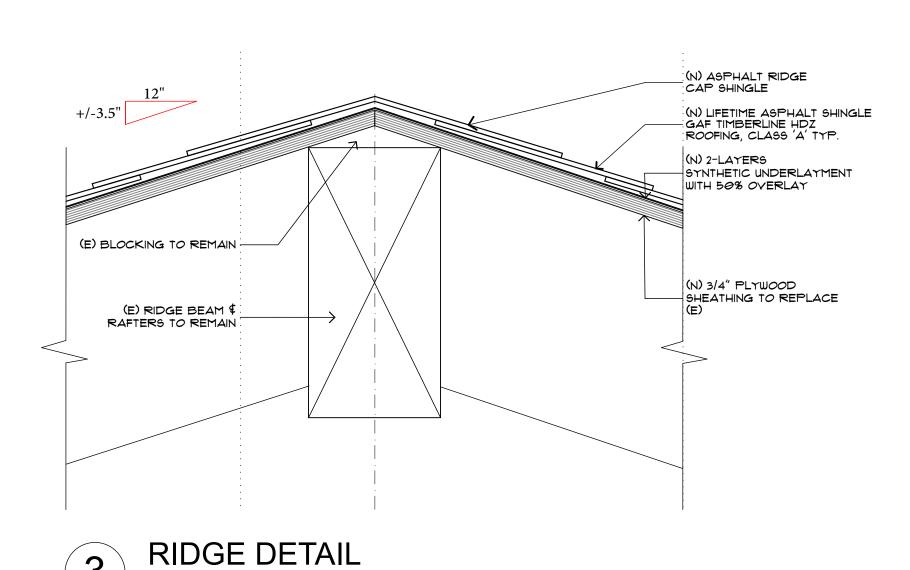
1 RAFTER (N) TAIL DETAIL SCALE: 3" = 1'-0"

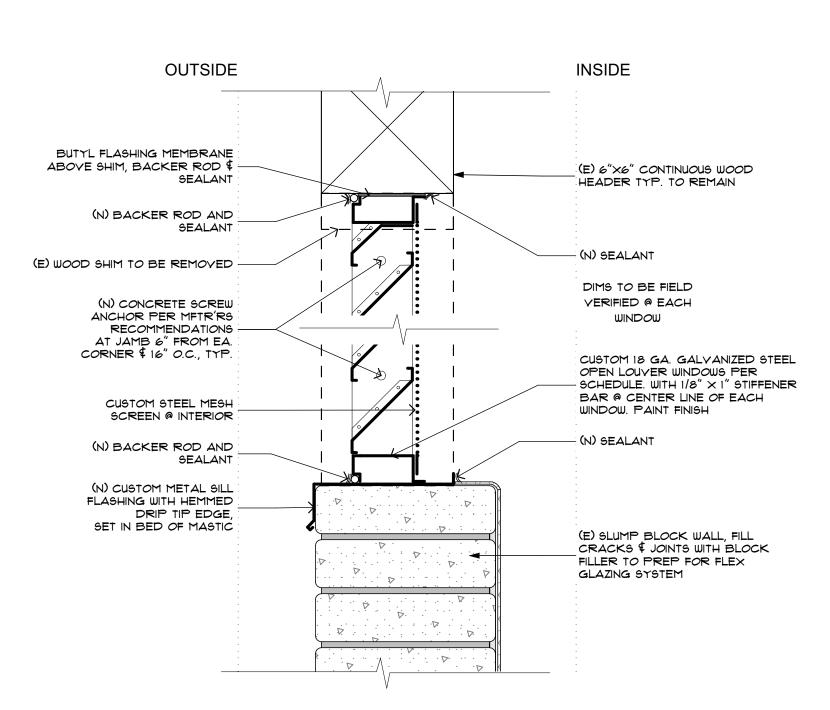




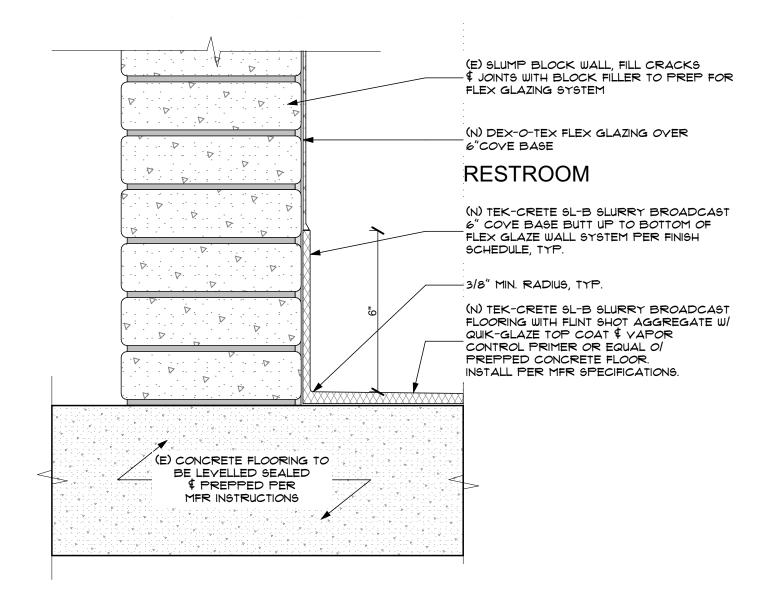


STD. SAW-CUT SLAB PATCH DETAIL SCALE: 3" = 1'-0"

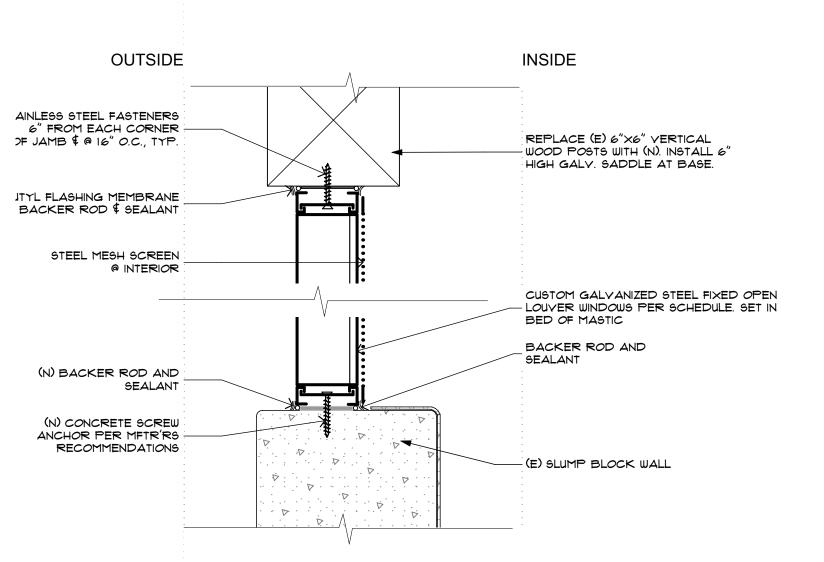








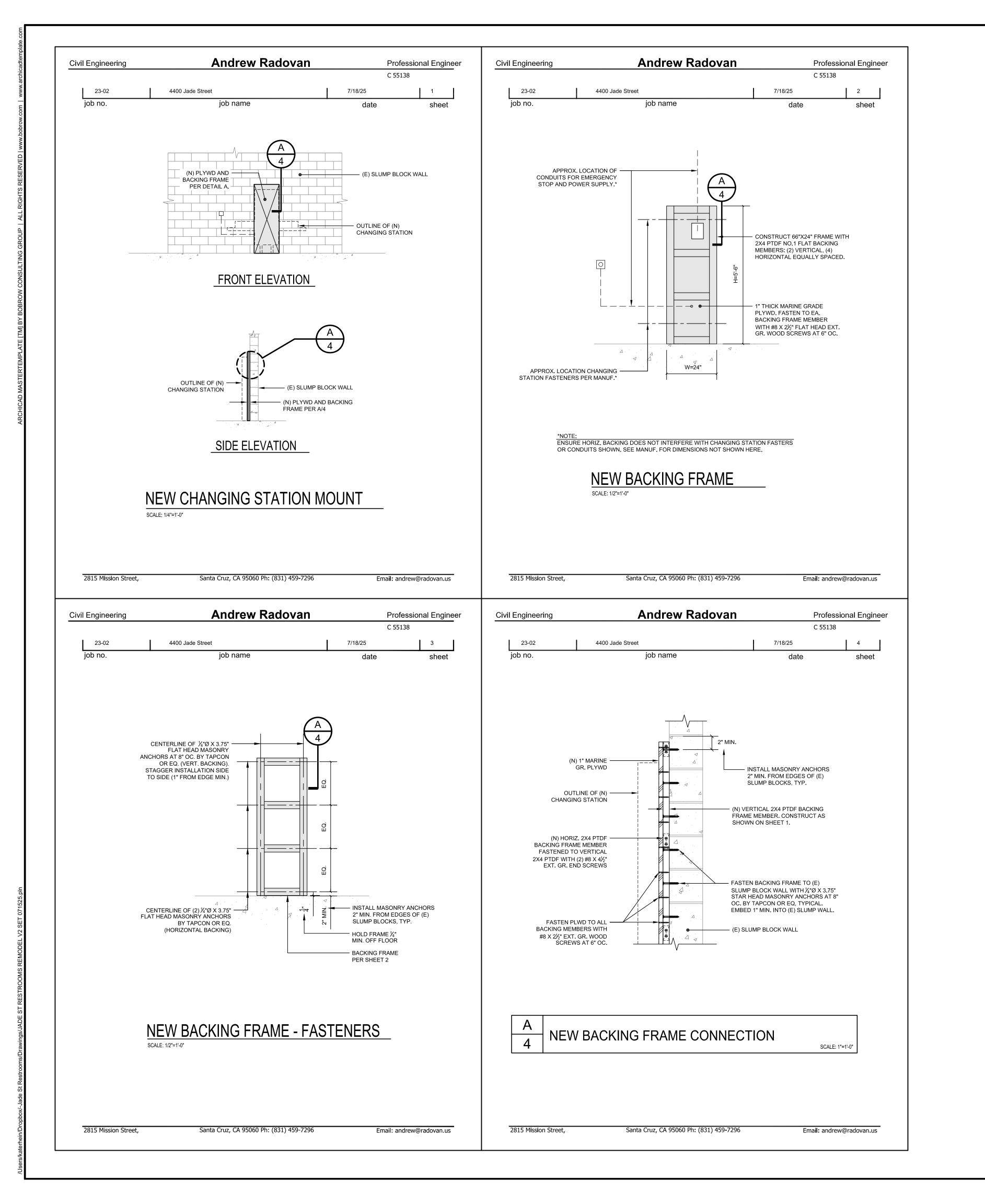


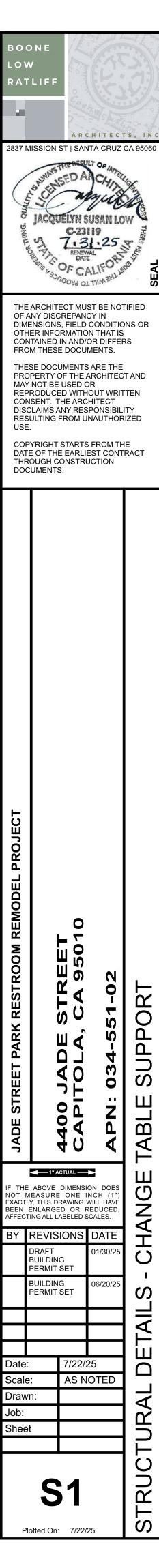




JADE STREET PARK RESTROOM REMODEL PROJE		4400 JADE STREET CAPITOLA, CA 95010	APN: 034-551-02	
NOT M EXACTLY BEEN E	ABOVE EASURE Y, THIS D ENLARGE	E ONE RAWING ED OR	SION DOES INCH (1") WILL HAVE REDUCED, SCALES.	
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E	ORAFT BUILDIN PERMIT		01/30/25]
	BUILDIN PERMIT		06/20/25	{
I_1/I_1	COMME RESPON SET		08/15/25	
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FIXT. NO.	FIXTURE	MAKE & MODEL	W	MIN BRA	NCH SIZ	Æ HW	TRAP	CARRIER	SEAT	FLUSH VALVE	STOP/ SUPPLY	FAUCET OR CONTROL	ACCESSIBLE INSUL. KIT	DRAIN ASSEMBLY	MOUI STD		REMARKS
<u>WC-1</u>	WATER CLOSET	AMERICAN STANDARD 3043.001	4"	2"	1"	-	INTEGRAL WITH FIXTURE	-	BEMIS 1955SSCT	SLOAN ROYAL 111-1.28	-	- -	-		-	х	
<u>U-1</u>	URINAL	AMERICAN STANDARD 6590.001	2"	1 1/2"	3/4"	-	INTEGRAL WITH FIXTURE	INCLUDED WITH FIXTURE	-	SLOAN ROYAL 186-0.125	-		-		-	х	
<u>L-1</u>	LAVATORY	AMERICAN STANDARD 0355.012	2"	1 1/2"	1/2"	-	DEARBORN BRASS 710-1	INCLUDED WITH FIXTURE	- -		BRASSCRAFT OCR19B16AX C	CHICAGO FAUCETS 3400-ABCP	TRUEFORM CONCRETE SHRD-17	MCGUIRE 155WC	-	х	
<u>HB-1</u>	HOSE BIBB	ACORN 8121CP-LF	-		3/4"	-	- -	-	-		-	- -	-		-	-	1
<u>FD-1</u>	FLOOR DRAIN	JAY R. SMITH 2005Y	(E)	(E)	-	-	(E)		- -		-	- -			-	-	2 3

(1)	WITH REMOVABLE LOOSE KEY HANDLI

³ VERIFY OUTLET SIZE IN FIELD.

(2)	WITH SQUARE TOP.	
(2)	WITH SQUARE TOP.	

SYMBOL	ABBRV.	IDENTIFICATION	ABBRV.	IDENTIFICATION
		REMOVE EXISTING	COORD	COORDINATE
	CW	COLD WATER (DOMESTIC)	DN	DOWN
	HW	HOT WATER	DWGS	DRAWINGS
	HWR	HOT WATER RETURN	(E)	EXISTING
	V	VENT	MIN	MINIMUM
G	G	GAS (7"WC)	(N)	NEW
w	S OR W	SOIL OR WASTE ABOVE GRADE	VTR	VENT THROUGH ROOF
w	S OR W	SOIL OR WASTE BELOW GRADE	W/	WITH
0		RISE UP		
C	ELL	ELBOW DOWN		
	TEE	TEE DOWN		
E		CAP		
\$	CONT	CONTINUATION		
		BALL VALVE		
—— ———		UNION		
<u> </u>	WHA	WATER HAMMER ARRESTOR		
	НВ	HOSE BIBB		
Ф——	GCO/FCO	GRADE CLEAN-OUT/FLOOR CLEAN-OUT		
터	WCO	WALL CLEAN-OUT		
•	P.O.C.	POINT OF CONNECTION		

GENERAL NOTES:

- 1. THIS PROJECT IS A REMODEL. THE PLANS AND SPECIFICATIONS INDICATE THE GENERAL EXTENT OF THE WORK BASED ON OWNER PROVIDED RECORD DRAWINGS AND LIMITED FIELD VERIFICATION. CONTRACTOR SHALL VISIT SITE, VERIFY EXISTING CONDITIONS, AND REPORT ANY DISCREPANCIES NOTED TO THE ARCHITECT PRIOR TO SUBMITTING A BID. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISCONNECTION AND RECONNECTION OF MECHANICAL, PLUMBING, AND ELECTRICAL SYSTEMS NECESSARY TO ACCOMPLISH THE WORK WHETHER OR NOT SPECIFIED AND/OR INDICATED.
- 2. PLUMBING CONTRACTOR SHALL NOTIFY GENERAL CONTRACTOR TO REPAIR WALL, FLOOR, AND CEILING SURFACES AS REQUIRED DUE TO DEMOLITION OR INSTALLATION WORK.
- 3. REMOVE ALL ABANDONED PIPING, EQUIPMENT, AND FIXTURES INTERFERING WITH NEW WORK WHETHER NEW WORK IS ARCHITECTURAL, STRUCTURAL, MECHANICAL, OR ELECTRICAL.
- 4. ABANDON IN PLACE ALL PIPING NOT INTERFERING WITH NEW WORK UNLESS REQUIRED FOR CONTINUED SERVICE.
- 5. CONTRACTOR SHALL SAW-CUT SLAB AS REQUIRED FOR INSTALLATION OF WASTE AND VENT PIPING BELOW FLOOR.
- 6. CUTTING OR CORING OF STRUCTURAL MEMBERS OR FOOTINGS IS PROHIBITED WITHOUT THE PRIOR WRITTEN CONSENT OF THE STRUCTURAL ENGINEER AND THE ARCHITECT.
- 7. COORDINATE WITH OWNER ON SPACE REQUIRED AND TIME SCHEDULE FOR DELIVERY OF ALL ITEMS WHICH ARE TO BE GIVEN TO THE OWNER FOR HIS DISPOSITION.
- 8. PRIME AND PAINT ALL EXPOSED PIPING PER ARCHITECTURAL SPECIFICATIONS. PAINT SHALL NOT EXCEED THE FOLLOWING VOLATILE ORGANIC COMPOUND CONTENT LIMITS: FLATS < 50 GRAMS PER LITER, NON-FLATS < 100 GRAMS PER LITER.
- 9. COORDINATE WITH ELECTRICAL ON REQUIRED POWER OUTLETS AND LIGHT SWITCHES NEAR PLUMBING EQUIPMENT.
- 10. BRACE ALL PIPING 2 1/2" NOMINAL OR LARGER. PIPING SUSPENDED BY INDIVIDUAL HANGERS 12" OR LESS IN LENGTH, AS MEASURED FROM THE TOP OF THE PIPE TO THE BOTTOM OF THE SUPPORT WHERE THE HANGER IS ATTACHED, NEED NOT
- 11. ALL PIPING, VALVES, EQUIPMENT, ETC. SHOWN IS NEW UNLESS OTHERWISE NOTED.
- 12. ADHESIVES, SEALANTS AND CAULKS USED INDOORS SHALL NOT EXCEED THE FOLLOWING VOC LIMITS PER TITLE 24, PART
 - PVC WELDING < 510 G/L
 - CPVC WELDING < 490 G/L
 - ABS WELDING < 325 G/L MASTICS > 100 G/L

11, SECTION 5.504.

 ZINC-RICH PRIMERS < 340 G/L FIRE RESISTANT COATINGS < 350 G/L

LIST OF GOVERNING CODES:

- 2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24, C.C.R.
- 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24, C.C.R. 2022 CALIFORNIA ELECTRICAL CODE, PART 3, TITLE 24, C.C.R.
- 2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, C.C.R.
- 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, C.C.R. 2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24, C.C.R.
- 2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, C.C.R. 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24, C.C.R.
- 2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24, C.C.R. TITLE 19, C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

PLUMBING GENERAL NOTES:

- 1. SEE ARCHITECTS PLANS AND DETAILS FOR PLUMBING FIXTURE MOUNTING LOCATIONS, HEIGHTS, CLEARANCES, ETC.
- 2. ACCESSIBLE FIXTURES SHALL HAVE LEVER OR PUSH TYPE OPERATORS THAT REQUIRE LESS THAN FIVE (5) POUNDS FORCE TO ACTIVATE.
- 3. OPERATING CONTROLS FOR ACCESSIBLE FIXTURES TO BE OPERABLE WITH ONE HAND, NO TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST.
- 4. FAUCETS WITH SELF-CLOSING VALVES SHALL REMAIN OPEN FOR NO LESS THAN 10 SECONDS AND NO MORE THAN 15
- 5. INSULATE ALL PIPING UNDER ACCESSIBLE FIXTURES AND COVER ANY SHARP OR ABRASIVE SURFACES WITH PROTECTIVE
- 6. MAXIMUM DEPTH OF ACCESSIBLE SINKS SHALL BE 6 1/2".

2022 CALGREEN NON-RESIDENTIAL MANDATORY MEASURES:

PLUMBING FIXTURES AND FITTINGS SHALL COMPLY WITH THE FOLLOWING:

5.303.3.1 WATER CLOSETS: ≤1.28 GAL/FLUSH

5.303.3.2.1 WALL MOUNTED URINALS: ≤0.125 GAL/FLUSH

5.303.3.2.2 FLOOR MOUNTED URINALS: ≤0.5 GAL/FLUSH 5.303.3.3.1 SINGLE SHOWERHEADS: ≤1.8 GPM AT 80 PSI. SHOWERHEADS SHALL BE CERTIFIED TO THE

PERFORMANCE CRITERIA OF THE US EPA WATERSENSE SPECIFICATION FOR SHOWERHEADS. 5.303.3.3.2 MULTIPLE SHOWERHEADS: COMBINED FLOW RATE OF ALL SHOWERHEADS AND/OR OTHER SHOWER OUTLETS CONTROLLED BY A SINGLE VALVE SHALL NOT EXCEED 1.8 GPM AT 80 PSI OR THE SHOWER SHALL BE DESIGNED TO ALLOW ONLY ONE SHOWER OUTLET TO BE IN OPERATION AT A TIME (A

HAND-HELD SHOWER SHALL BE CONSIDERED A SHOWERHEAD). 5.303.3.4.1 NON-RESIDENTIAL LAVATORY FAUCETS: ≤0.5 GPM AT 60 PSI

AT 60 PSI]

5.303.3.4.2 KITCHEN FAUCETS: ≤1.8 GPM AT 60 PSI; TEMPORARY INCREASE TO 2.2 GPM ALLOWED BUT SHALL

DEFAULT TO 1.8 GPM 5.303.3.4.3 WASH FOUNTAINS: ≤1.8 GPM/20 [RIM SPACE (INCHES) AT 60 PSI]

5.303.3.4.4 METERING FAUCETS: ≤0.20 GALLONS PER CYCLE 5.303.3.4.5 METERING FAUCETS FOR WASH FOUNTAINS: ≤0.20 GALLONS PER CYCLE 20 [RIM SPACE (INCHES)

NOTE: WHERE COMPLYING FAUCETS ARE UNAVAILABLE, AERATORS OR OTHER MEANS MAY BE USED TO ACHIEVE REDUCTION.



Drawn:

IF THE ABOVE DIMENSION DOE: NOT MEASURE ONE INCH (1' EXACTLY, THIS DRAWING WILL HAV

BEEN ENLARGED OR REDUCED AFFECTING ALL LABELED SCALES.

BY REVISIONS DATE

PERMIT SET

1/30/2

06/20/25

06/20/25

CADD

AS NOTED

Architects, Inc.

2837 MISSION ST | SANTA CRUZ CA 95060

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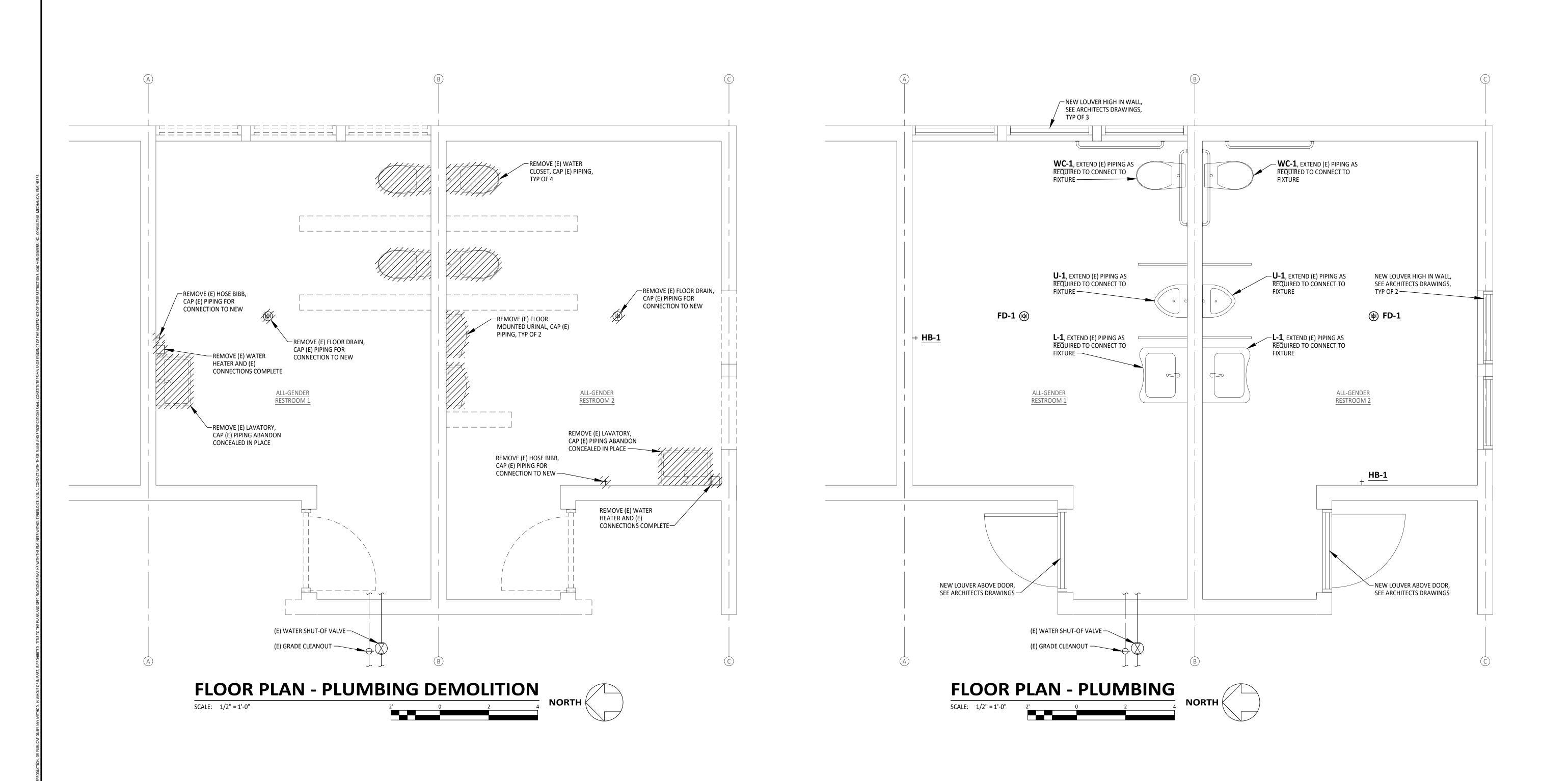
DOCUMENTS.

DATE OF THE EARLIEST CONTRACT

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JADE STREET PARK RESTROOM REMODEL PROJEC STREET, CA 95010 DE LA,

4400 CAPI IF THE ABOVE DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING WILL HAVE BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES.

BY REVISIONS DATE 06/20/25

06/20/25 AS NOTED Drawn: CADD

COLE

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GENERAL CONSTRUCTION NOTES

- CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS. MATERIALS AND EQUIPMENT SHALL BE U.L. LISTED AND LABELED FOR THE APPLICATION.
- 2. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTION FEES REQUIRED BY
- CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO BIDDING AND ALLOW FOR ALL FIELD CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL WORK NOTED AND CALLED OUT ON ALL CONTRACT DOCUMENTS. THE CONTRACTOR SHALL OBTAIN INFORMATION AND BE FAMILIAR WITH ALL OTHER TRADES WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION BETWEEN OTHER TRADES ON PROJECT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONS AND PROPERTY AND SHALL PROVIDE INSURANCE COVERAGE AS NECESSARY FOR LIABILITY AND PERSONAL, PROPERTY DAMAGE, TO FULLY PROTECT THE OWNER, ARCHITECT AND ENGINEER FROM ANY AND ALL CLAIMS RESULTING FROM THIS WORK.
- CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS AT THE PROJECT SITE INDICATING ALL MODIFICATIONS TO ELECTRICAL SYSTEMS. THE CONTRACTOR SHALL AT THE CONCLUSION OF THE PROJECT PROVIDE ACCURATE "AS-BUILT" DRAWINGS ACCEPTABLE TO THE ARCHITECT
- ALL MATERIALS PROVIDED TO THE PROJECT SHALL BE NEW. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL INCIDENTAL MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.
- CONTRACTOR SHALL PROVIDE TO THE ARCHITECT A CONSTRUCTION SCHEDULE OF ELECTRICAL WORK. THE CONSTRUCTION SCHEDULE SHALL IDENTIFY ALL SIGNIFICANT MILESTONES WITH COMPLETION DATES.
- CONTRACTOR SHALL PROVIDE ALL REQUIRED "CUTTING, PATCHING, EXCAVATION, BACKFILL AND REPAIRS" NECESSARY TO RESTORE DAMAGED SURFACES TO EQUAL OR BETTER THAN ORIGINAL CONDITIONS EXISTING AT START OF WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PAINTING ALL EXPOSED CONDUITS AND ELECTRICAL EQUIPMENT REFER TO ARCHITECTS PAINTING SECTION FOR REQUIREMENTS.
- 10. ALL ELECTRICAL EQUIPMENT INSTALLED OUTDOORS SHALL BE WEATHERPROOF. EXTERIOR CONDUITS RUN INTO BUILDINGS SHALL BE INSTALLED WITH FLASHING, CAULKED AND SEALED. CONDUITS FOR EXTERIOR ELECTRICAL DEVICES SHALL BE RUN INSIDE BUILDING UNLESS OTHERWISE NOTED ON DRAWINGS.
- 11. ALL CONDUITS UNLESS OTHERWISE NOTED ON DRAWINGS SHALL HAVE AS A MINIMUM: TWO (2) #12s WITH ONE (1) #12 GROUND. "TICK" MARKS SHOWN ON CIRCUITRY ARE FOR ROUGH ESTIMATING ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WIRES AND WIRE SIZES REQUIRED BY LATEST CODE.
- 12. ALL BRANCH CIRCUITS SHALL HAVE INDIVIDUAL NEUTRALS. SHARED NEUTRALS ON MULTIWIRE CIRCUITS IS NOT ALLOWED.
- 13. ALL 120/277V LIGHT SWITCHES AND WALL OCCUPANT SENSORS SHALL HAVE A NEUTRAL INSTALLED TO THE DEVICE BOX EXCEPT WHERE A CONDUIT OR SURFACE RACEWAY SYSTEM IS INSTALLED.
- 14. COORDINATE ALL CONDUIT RUNS, ELECTRICAL EQUIPMENT AND PANELS WITH ALL OTHER WORK TO AVOID CONFLICTS.
- 15. SEE ARCHITECTURAL DOCUMENTS FOR EXACT PLACEMENT OF LIGHTING FIXTURES AND DEVICES. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF CEILING TYPES FROM ARCHITECTURAL DOCUMENTS AND PROVIDE AND INSTALL ALL REQUIRED FIXTURE MOUNTING HARDWARE. PROVIDE AND INSTALL U.L. LISTED FIRE STOP ENCLOSURES FOR ALL RECESSED FIXTURES IN FIRE RATED
- 16. FROM ALL NEW FLUSH MOUNT PANELS; THE CONTRACTOR SHALL STUB UP INTO ACCESSIBLE CEILING SPACE A MINIMUM OF FOUR (4) 3/4" CONDUITS FOR FUTURE USE.
- CONTRACTOR SHALL, PRIOR TO BID, FIELD VERIFY ALL REQUIREMENTS FOR MODIFYING THE EXISTING CLOCK, DATA, AND INTERCOM SYSTEMS TO ACCOMMODATE ADDITIONS NOTED. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS NEEDED TO MAKE A FULLY OPERATIONAL SYSTEM AT THE CONCLUSION OF PROJECT WORK.
- 18. CONTRACTOR SHALL PROVIDE IN EVERY NEW EMPTY CONDUIT A DRAW STRING FOR USE IN FUTURE CONSTRUCTION.
- 19. ALL CONDUIT SHALL BE CONCEALED WHERE POSSIBLE. CUT AND PATCH EXISTING WALLS WHERE NECESSARY. WHERE IT IS NECESSARY TO CUT OR BORE EXISTING STRUCTURAL WALLS FOR NEW ELECTRICAL WORK OBTAIN PERMISSION FROM THE ARCHITECT PRIOR TO STARTING WORK. REUSE EXISTING CONDUIT WHERE POSSIBLE
- 20. WHERE IT IS NOT POSSIBLE TO REUSE EXISTING CONDUIT OR RUN NEW CONCEALED CONDUIT USE NON-METALLIC SURFACE RACEWAY AND BOXES. ROUTING OF ALL NON-METALLIC RACEWAYS SHALL BE APPROVED BY THE ARCHITECT OR OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.
- 21. EXTENSION RINGS OR RESET BOXES TO BE FLUSH WITH NEW WALL THICKNESS.
- 22. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO EXISTING UNDERGROUND SYSTEMS (GAS, WATER, TELEPHONE, ELECTRICAL, SEWER, ETC.). THE CONTRACTOR SHALL REPAIR & PAY ALL EXPENSES FOR DAMAGE TO EXISTING UNDERGROUND SYSTEMS AS A RESULT OF NEW WORK. REPAIR TO DAMAGED UNDERGROUND SYSTEMS SHALL BE TO THE OWNERS SATISFACTION WITHOUT EXTRA EXPENSE TO THE
- 23. EXISTING WIRING SHOWN HAS BEEN TAKEN FROM OLD PLANS AND IS ASSUMED TO BE CORRECT. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ACTUAL CONDITIONS AND MAKE ADJUSTMENTS TO SUIT ACTUAL CONDITIONS AND TO MEET THE INTENT OF THE CONTRACT DOCUMENTS.
- 24. WHERE NON-METALLIC SHEATHED CONDUCTORS ARE FOUND, THE CONTRACTOR SHALL REMOVE TO FULLEST EXTENT PER THE GENERAL DEMOLITION NOTES AND REPLACE WITH CONDUIT. METAL CLAD CABLE WILL BE PERMITTED ON A CASE-BY-CASE BASIS ONLY BY WRITTEN APPROVAL FROM THE ARCHITECT.
- 25. ALL INSTALLATION OF EXPOSED SURFACE MOUNTED RACEWAY IN PUBLIC AREAS SHALL BE REVIEWED BY ARCHITECT BEFORE ROUGH-IN. CONTRACTOR IS TO DETERMINE THE ACCESSIBILITY OF ATTIC, FURRED SPACE, HOLLOW MULLIONS, ETC. IN EACH AREA AND REVIEW WITH ARCHITECT. IF SYSTEM CAN BE ROUTED CONCEALED EITHER BY FISHING OR ACCESSIBILITY, CONTRACTOR IS TO DO SO. IF INACCESSIBILITY IS DETERMINED, CONTRACTOR SHALL INSTALL SURFACE MOUNTED RACEWAY IN THE MOST AESTHETICALLY PLEASING MEANS AS DETERMINED BY THE ARCHITECT. NO ALLOWANCE FOR ADDITIONAL COMPENSATION DUE TO ROUTING AS DIRECTED BY THE ARCHITECT WILL BE MADE.
- 26. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES AND OBTAIN UTILITY COMPANY CONSTRUCTION DOCUMENTS. UTILITY COMPANY CHARGES SHALL BE PAID BY OWNER.

ELECTRICAL SYMBOLS & ABBREVIATIONS

0 SECURITY DOOR CONTACTS FLUORESCENT OR LED LUMINAIRE SEE SCHEDULE SECURITY MOTION DETECTOR EMERGENCY OR NIGHT LIGHT CCTV CAMERA STRIP FLUORESCENT OR LED LUMINAIRE -SEE SCHEDULE SECURITY SYSTEM KEYPAD LUMINAIRE - RECESSED - SEE SCHEDULE DOOR BELL PUSHBUTTON **RECESSED WALL WASHER** DOOR CHIME WITH LED LUMINAIRE - SURFACE MOUNTED -SEE SCHEDULE RECEPTACLE - DUPLEX * LUMINAIRE - POLE OR POST MOUNTED -SEE SCHEDULE DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER -FIELD VERIFY HEIGHT LUMINAIRE - WALL MOUNTED SEE SCHEDULE GFCI CONVENIENCE RECEPTACLE - DUPLEX* **BOLLARD OR PATH LIGHT - SEE SCHEDULE** GFCI CONVENIENCE DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT EXIT LIGHT - DIRECTIONAL ARROWS AS INDICATED - SEE SCHEDULE RECEPTACLE DOUBLE DUPLEX* TRACK LIGHTING - SEE SCHEDULE HALF SWITCHED DUPLEX RECEPTACLE * **EMERGENCY LIGHT** SINGLE RECEPTACLE* DIGITAL DUAL TECHNOLOGY OCC. SENSOR DUPLEX RECEPTACLE - CEILING MOUNTED LIGHTING CONTROL OCCUPANCY SENSOR CORNER MOUNTED LETTER INDICATES DUPLEX HALF CONTROLLED RECEPTACLE * DIMMER ROOM CONTROLLER LETTER INDICATES DUPLEX FULLY PC PLUG LOAD CONTROLLER CONTROLLED RECEPTACLE * FLOOR MOUNTED DUPLEX RECEPTACLE RC ROOM LIGHTING CONTROLLER FLOOR MOUNTED BOX LCP LIGHTING CONTROL PANEL POWER OUTLET - SEE PLANS FOR NEMA TYPE★ DIGITAL DAYLIGHT SENSOR **POWER POLE** SINGLE POLE SWITCH ** WALL TELEPHONE OUTLET ** SINGLE POLE SWITCH, ** a = CIRCUIT CONTROLLED VOICE/DATA WALL OUTLET ★ THREE WAY SWITCH** VOICE/DATA OUTLET MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT FOUR WAY SWITCH** SURFACE MOUNTED VOICE/DATA WALL OUTLET * MANUAL MOTOR STARTER SURFACE MOUNTED VOICE/DATA OUTLET KEY OPERATED SWITCH ** MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT LIGHTING DIMMER ** WIRELESS ACCESS POINT (WAP) -**CEILING MOUNTED** DIGITAL ON/OFF SWITCH ** WIRELESS ACCESS POINT (WAP) -DIGITAL DIMMER SWITCH ** WALL MOUNTED - FIELD VERIFY HEIGHT DIGITAL MULTI SCENE **VOICE/DATA OUTLET - FLOOR MOUNTED** LIGHTING SWITCH ** DIGITAL DUAL TECHNOLOGY TV OUTLET * WALL OCC. SENSOR ** VOICE/DATA OUTLET - CEILING MOUNTED WALL OCCUPANCY SENSOR **

SYMBOLS & ABBREVIATIONS SHOWN ARE FOR GENERAL USE. DISREGARD THOSE WHICH DO NOT APPEAR ON THE PLANS. PANELBOARD - FLUSH MOUNTED V//// EQUIPMENT PANEL - FLUSH MOUNTED PANELBOARD - SURFACE MOUNTED **EQUIPMENT PANEL - SURFACE MOUNTED** METER W/ CURRENT TRANSFORMER JUNCTION BOX - CEILING OR WALL MOUNTED, SIZE PER CODE, TAPE AND TAG WIRES SURGE PROTECTIVE DEVICE MOTOR CONNECTION NON-FUSED DISCONNECT SWITCH FUSED DISCONNECT SWITCH; FUSED WITH DUAL-ELEMENT FUSES SIZED PER EQUIPMENT MFGR'S NAMEPLATE DATA COMBINATION STARTER/FUSED DISCONNECT SWITCH; FUSED DISCONNECT SWITCH ELEMENT FUSES SIZED PER EQUIPMENT MFGRS NAMEPLATE DATA MAGNETIC STARTER - NEMA SIZE INDICATED NEMA 3R ENCLOSURE UNLESS OTHERWISE SPECIFIED CIRCUIT BREAKER GROUND ROD WITH GROUNDWELL BOX **GROUND ELECTRODE** NORMALLY OPEN CONTACT NORMALLY CLOSED CONTACT TRANSFORMER - SEE SINGLE LINE FOR SIZE PULLBOX CONDUIT - UP

FLEX CONDUIT WITH CONNECTION CONDUIT - DOWN E CONDUIT EMERGENCY SYSTEM LV LOW VOLTAGE WIRING SURFACE METAL OR NON-METALLIC RACEWAY CONDUIT - CONCEALED IN WALLS OR CEILING CONDUIT - EXISTING CONDUIT - BELOW SLAB OR UNDERGROUND: 3/4"MIN. CAPPED OR STUB-OUT CONDUIT

CONDUIT CONTINUATION

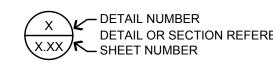
CONDUIT - HOME RUN TO PANEL, TERMINAL CABINET, ETC. RUNS MARKED WITH CROSSHATCHES INDICATE NUMBER OF #12 AWG WIRES WHEN MORE THAN TWO. SIZE CONDUIT ACCORDING TO SPECIFICATIONS AND APPLICABLE CODE. CROSS HATCHES WITH NUMBER ADJACEN INDICATES WIRE SIZE OTHER THAN #12 AWG.

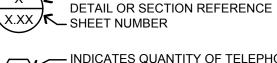
SHEET NOTE REFERENCE SYMBOL; SEE ASSOCIATED NOTE ON SAME SHEET SCHEDULE SYMBOL; SEE ASSOCIATED

DETAIL NOTE REFERENCE SYMBOL SEE ASSOCIATED NOTE ON SAME DETAIL

FEEDER DESIGNATION;

SEE ASSOCIATED NOTE ON SAME DETAIL





INDICATES QUANTITY OF TELEPHONE OUTLETS INDICATES QUANTITY OF DATA OUTLETS

XFMR

TRANSFORMER

ABBREVIATIONS

FLUOR

FULL LOAD AMPS

GENERAL CONTRACTOR

FLUORESCENT

Α	AMPERE	GFCI	GROUND FAULT	NTS	NOT TO SCALE
AFF	ABOVE FINISHED FLOOR	GFI	INTERRUPTING	OAH	OVERALL HEIGHT
ALUM/AL	ALUMINUM	GND, G	GROUND	OC	ON CENTER
ARCH	ARCHITECT	GRS	GALVANIZED RIGID	ОН	OVERHEAD
AWG	AMERICAN WIRE		STEEL	OFCI	OWNER FURNACED
	GAUGE	HT	HEIGHT		CONTRACTOR INSTALLED
BKR	BREAKER	IC	INTERCOM	PA	PUBLIC ADDRESS
С	CONDUIT	IDF	INTERMEDIATE	PB	PULL BOX
CATV	CABLE TV		DISTRIBUTION FRAME	PF	POWER FACTOR
CB	CIRCUIT BREAKER	INCAND	INCANDESCENT	PH	PHASE
CCTV	CLOSED CIRCUIT TV	JB	JUNCTION BOX	PIR	PASSIVE INFRARED
CKT	CIRCUIT	KV	KILOVOLT	PNL	PANEL
CL	CENTER LINE	KVA	KILOVOLT AMPERES	PV	PHOTOVOLTAIC
CLG	CEILING	KW	KILOWATT	PVC	POLYVINYL
C.O.	CONDUIT ONLY	LCP	LIGHTING CONTROL		CHLORIDE
CTR	CENTER		PANEL	PWR	POWER
D	DIMMER	LTG	LIGHTING	(R)	RELOCATE
DIM	DIMENSION	LV	LOW VOLTAGE	(RP)	REMOVABLE POLE
DIST	DISTRIBUTION	KCM	THOUSAND	RECPT'S	RECEPTACLES
(E)	EXISTING		CIRCULAR MILS	REQD	REQUIRED
ÈĆ	ELECTRICAL CONTRACTOR	M.B.	MAIN CIRCUIT BREAKER		REQUIREMENT(S)
(EL)	EVENING LIGHT	MCA	MINIMUM	SHT	SHEET
EM	EMERGENCY	WOT	CIRCUIT AMPS	SLD	SINGLE LINE DIAGRAM
EMT	ELECTRICAL	MDF	MAIN DISTRIBUTION FRAME	STC	SYSTEMS TERMINATION
LIVII	METALLIC TUBING	MECH	MECHANICAL		CABINET
EDMO		MH	METAL HALIDE	SW	SWITCH
ERMS	ENERGY REDUCTION	MLO	MAIN LUGS ONLY	SWBD	SWITCHBOARD
	MAINTENANCE SWITCH	MPOE	MAIN POINT OF ENTRANCE	TTB	TELEPHONE TERMINAL
EQUIP	EQUIPMENT	MTD	MOUNTED	TVD.	BACKBOARD
EV	ELECTRICAL VEHICLE	MTG	MOUNTING	TYP	TYPICAL
FA	FIRE ALARM	MOCP	MAXIMUM OVER	UON	UNLESS OTHERWISE NOTEL
FACP	FIRE ALARM	(1)	CURRENT PROTECTION	UG	UNDERGROUND VOLT
	CONTROL PANEL	(N)	NEW	V VD	VOLTAGE DROP
FC	FOOT CANDLE	NIC	NOT IN CONTRACT		WATT
FIN	FINISH	NIEC	NOT IN ELECTRICAL	W W/	WITH
FL	FLOOR	(NIL.)	CONTRACT	WP	WEATHERPROOF
FLA	FULL LOAD AMPS	(NL)	NIGHT LIGHT	VVP	WEATHERPROOF

NO.

NOM

NUMBER

NOMINAL

*+15" A.F.F. TO BOTTOM OF BOX, U.O.N. ** +48" A.F.F. TO TOP OF BOX, U.O.N.

[#] NUMBER IN BRACKETS DENOTES NUMBER

OF CABLE DROPS WHEN MORE THAN (2).

LIGHT FIXTURE SCHEDULE

DOUBLE SWITCHED WALL OCCUPANCY

WALL SWITCH OCCUPANCY SENSOR **

2-BUTTON DIMMING DUAL TECHNOLOGY

WALL SWITCH OCCUPANCY SENSOR **

DIMMING DUAL TECHNOLOGY

FIXTURE NOTES:

- ALL LED LIGHT FIXTURE DRIVERS SHALL BE ELECTRONIC TYPE, 10% TOTAL HARMONIC DISTORTION MAXIMUM.
- ALL LED LIGHT MODULES SHALL BE ENERGY SAVING 3500° K, 80 CRI MINIMUM, U.O.N. (SEE SPECIFICATIONS FOR
- ALL LED DRIVERS (AND ASSOC. FIXTS.) SHALL HAVE MANUFACTURER'S CERTIFICATION OF COMPLIANCE WITH CALIFORNIA ENERGY COMMISSION STANDARDS AND REQUIREMENTS, WHERE SUCH ARE USED IN CONDITIONED
- 4. EXIT SIGNS, EMERGENCY LIGHTS AND LIGHT FIXTURES WITH EMERGENCY BATTERY BACK-UP SHALL SUPPLY A MINIMUM DURATION OF 90 MINUTES OF POWER IN THE EVENT OF A POWER OUTAGE/FAILURE.
- 5. ALL RECESSED LIGHT FIXTURES SHALL BE U.L. APPROVED FOR ZERO CLEARANCE INSULATION COVER WHEN INSTALLED IN INSULATED CEILINGS.

TYPE	DESCRIPTION	LAMPS	MANUFACTURER	MOUNTING DETAIL
Α	2' DIA. ROUND SURFACE MOUNTED FIXTURE, ALUMINUM HOUSING, FROSTED ACRYLIC LENS, MATTE WHITE POWDER COAT FINISH, 80 CRI, 3500K, 120V.	LED 24.3W 2528 LM	HE WILLAMS RNDS SERIES	1 E101
AE	SAME AS FIXTURE "A" WITH 10-WATT EMERGENCY BATTERY.	LED 24.3W 2528 LM	HE WILLAMS RNDS SERIES	1 E101
XA	SURFACE MOUNT CANOPY FIXTURE, EXTRUDED ALUMINUM HOUSING, TYPE 3 DISTRIBUTION, 4000K, BUTTON PHOTOCONTROL, 120V. FINISH PER ARCHITECT.	LED 38W 4802 LM	GARDCO SFC SERIES	1 E101

APPLICABLE CODES & STANDARDS

INTERIOR SPEAKERS CEILING MOUNTED

INTERIOR SPEAKERS WALL MOUNTED

CLOCK +8'-0" AFF U.O.N. VERIFY BEFORE

INSTALLATION

2022 CALIFORNIA ADMINISTRATIVE CODE C.A.C., PART 1, TITLE 24, C.C.R.

NOTE ON SAME SHEET

- 2022 CALIFORNIA BUILDING CODE (CBC) C.C.R., TITLE 24, VOL. 1 & 2 BASED ON THE 2021 INTERNATIONAL BUILDING CODE (IBC) WITH CALIFORNIA AMENDMENTS.
- 2022 CALIFORNIA ELECTRICAL CODE (CEC) C.C.R., TITLE 24, PART 3 BASED ON THE
- 2020 NATIONAL ELECTRICAL CODE (NEC) WITH CALIFORNIA AMENDMENTS. 2022 CALIFORNIA MECHANICAL CODE (CMC) C.C.R., TITLE 24, PART 4 BASED ON THE
- 2021 UNIFORM MECHANICAL CODE (UMC) WITH CALIFORNIA AMENDMENTS. 2022 CALIFORNIA PLUMBING CODE (CPC) C.C.R., TITLE 24, PART 5 BASED ON THE 2021
- UNIFORM PLUMBING CODE (UPC) WITH CALIFORNIA AMENDMENTS.
- 6. 2022 CALIFORNIA ENERGY CODE C.C.R., TITLE 24, PART 6.
- 2022 CALIFORNIA FIRE CODE (CFC) C.C.R., TITLE 24, PART 9 BASED ON THE 2021 INTERNATIONAL FIRE CODE (IFC) WITH CALIFORNIA AMENDMENTS.
- 8. 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE C.C.R., TITLE 24, PART 11.
- 9. 2022 CALIFORNIA REFERENCED STANDARDS CODE C.C.R., TITLE 24, PART 12.
- 10. TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
- 11. NATIONAL FIRE ALARM CODE (NFPA 72) 2022.
- 12. CITY OF CAPITOLA ORDINANCES, CODES, AND REGULATIONS.

- AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
- 2. ELECTRONICS INDUSTRIES ASSOCIATION (EIA)
- 3. INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)
- 4. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
- 5. NATIONAL ELECTRICAL TESTING ASSOCIATION (NETA)
- 6. UNDERWRITER LABORATORIES (UL)
- 7. CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ACT STANDARDS (CAL/OSHA)

SHEET INDEX

- E001 SYMBOLS, ABBREVIATIONS, GENERAL CONSTRUCTION NOTES, LIGHT FIXTURE SCHEDULE, CODES & SHEET
- E002 CALIFORNIA ENERGY COMPLIANCE TITLE 24
- (BUILDING INTERIOR). E003 CALIFORNIA ENERGY COMPLIANCE TITLE 24
- E101 PANELBOARD SCHEDULE & DETAILS.

(BUILDING EXTERIOR).

- E201 ELECTRICAL SITE PLAN.
- E301 ELECTRICAL DEMOLITION PLAN, GENERAL DEMOLITION NOTES, POWER & SYSTEMS PLAN & LIGHTING PLAN.
- E601 ELECTRICAL SPECIFICATIONS.



AURUM CONSULTING MONTEREY BAY, INC.

Project No. 25-266.00

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BOONI ARCHITECTS, IN

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in O

NOT MEASURE ONE INCH

EXACTLY, THIS DRAWING WILL HAV BEEN ENLARGED OR REDUCED AFFECTING ALL LABELED SCALES. BY REVISIONS DATE 01/30/25 BUII DING PERMIT SET BUILDING 06/20/25

5/27/25 **AS NOTED** Scale: Drawn: Job:

Plotted On: 5/27/25

Sheet

05 Total Unconditioned Floor Area (ft²)

06 # of Stories (Habitable Above Grade)

This table includes any lighting systems that are within the scope of the p 141.0(b)2 / 180.2(b)4 for alterations.	permit application and are demonstrating co	empliance using the p	rescriptive path outlined in 140	0.6 / 170.2(e) d
Scope of Work	Conditioned Spac	es	Unconditioned Sp	aces
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft ²)
☐ New Lighting System	N/A	0	N/A	0
☐ New Lighting System - Parking Garage	N/A	0	N/A	0
☑ Altered Lighting System	Complete Building Method	413	N/A	0
Total Area of Work (ft²)	413	•		

	Generated Date/Time:	Documentation Software: Energy Code Ace			
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STATE OF CALIFORNIA Indoor Lighting		CALIFORNIA ENERGY COMMISSION			
CERTIFICATE OF COMPLIANCE NRCC-					
Project Name: Jade Street Restroom at Capitola Community Center	Report Page:	(Page 4 of 7)			
	Date Prepared:	2025-06-23T10:26:31-04:00			

Level Controls										
04	05	06	07	08	09	10	11	1	2	
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) // 160.5(b)4C	Primary/Sky lit Daylighting 130.1(d) /	lit Daylighting	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1/ 170.2(e)2A	Field In:	spector Fail
RESTROOM	All Other Occupancies	Readily Accessible	NA: Restrooms	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	Pass		
							13			
						Plan Sheet	t Showing Day	/lit Zones:		

I. LIGHTING POWER ALLOWANCI	: COMPLETE BUILDING OR AREA CATEGORY N	ИЕТНОDS				
Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used .						
Conditioned Spaces						
01	02	03	04	05	0	6
Area Description	Complete Building or Area Category Primary	Allowed Density	4 (5.2)	Allowed Wattage (Watts)	Additional Allowa	nce / Adjustment
Area Description	Function Area	(W/ft ²)	Area (ft²)		Area Category	PAF
RESTROOM	All Other Occupancies	0.4	413	165.2	No	No
	•	TOTALS:	413	165.2	See Tables J,	or P for detail

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYS	STEM

This section does not apply to this project.

02 Climate Zone

All Other Occupancies

03 Occupancy Types Within Project (select all that apply):

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220101	Compliance ID: 306020-0625-00 Report Generated: 2025-06-23 07:26:

STATE OF CALIFORNIA		
Indoor Lighting		CALIFORNIA ENERGY COMMISSION
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lf any cell on this tabl	e says "DOES I	NOT COMPLY"	or "COMPLIES I	with Exception	al Cc	onditions" refe	r to T	Table D. for gui	dance.				
	Allo	wed Lighting F	ower per 140.	6(b) / 170.2(e)) (Wa	atts)		Adjusted Ligh	ting Power per (Watts)	140	.6(a) / 170.2(e)		Compliance Results
Lighting in conditioned and	01	02	03	04		05	1	06	07		08	Γ	09
unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)		Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)	Ш	Total Allowed (Watts)	2	Total Designed (Watts)	Adjustments PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)	II	Total Adjusted (Watts) *Includes Adjustments		05 must be >= 08 140.6 / 170.2(e)
	(See Table I)	(See Table I)	(See Table J)	(See Table K)				(See Table F)	(See Table P)			L	
Conditioned	165.2				=	165.2	≥	145.8		=	145.8		COMPLIES
Unconditioned					=		≥			=			
								Contro	ls Compliance (See	Table H for Detail	s)	COMPLIES
						Rate	ed P	ower Reductio	n Compliance (S	See '	Table Q for Detail:	s)	

D. EXCEPTIONAL CONDITIONS
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.
E. ADDITIONAL REMARKS
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220101	Compliance ID: 306020-0625-0003 Report Generated: 2025-06-23 07:26:33
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Generated Date/Time:

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE	
This section does not apply to this project.	
L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY	
his section does not apply to this project.	
M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING	
This section does not apply to this project.	
N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS	
This section does not apply to this project.	
O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE	
This section does not apply to this project.	
P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))	
This section does not apply to this project.	
Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS	
•	

This section does not apply to this project.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

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(Generated Date/Time:

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CERTIFICATE OF COMPLIANCE		NRCC-
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F. INDOOR LI	GHTING FIXTURE SCHEDULI									
	ides all planned permanent and Table T. If using Table T to doc ere.		-	•	-		, .	-		
Designed Wat	tage: Conditioned Spaces			:						
01	02	03	04	05	06	07	08	09	1	0
Name or Item	Complete Luminaire	Modular	Small	Watts per How is Wa	Watts per	How is Wattage Total Number	140 6(a)3 /		Field In	spector
Tag	'	(Track) Fixture	Aperture & Color Change ¹	luminaire ²	determined	of Luminaires		Design Watts	Pass	Fail
A/AE	SURFACE MOUNTED ROUND	No	NA	24.3	Mfr. Spec	6	No	145.8		
					Total Design	ed Watts: CONI	DITIONED SPACES	145.8		

¹FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05. ²Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.

G. MODULAR LIGHTING SYSTEMS			
This section does not apply to this project.			
H. INDOOR LIGHTING CONTROLS (Not including PAFs)			
This table includes lighting controls for conditioned and unconditioned spaces.			
Building Level Controls			
01	02	0	3
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C	Field In	spector
ivialidatory bernand response 110.12(c)	31101-011 CO11(1015 130.1(c) / 100.3(b)4C	Pass	Fail
NA < 4,000W subject to multilevel	See Area/Space Level Controls		

STATE OF CALIFORN	NIA		
Indoor Ligh			CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF	COMPLIANCE		NRCC-LTI-E
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S. DAYLIGHT I	DESIGN POWER ADJUSTMENT FACTOR (PAF)		

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This section does not apply to this pro	oject.
T. DWELLING UNIT LIGHTING	
This section does not apply to this pro	oject.
U. DECLARATION OF REQUIRED O	CERTIFICATES OF INSTALLATION
	information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. ts must be provided to the building inspector during construction and can be found online
	Form/Title
NRCI-LTI-E - Must be submitted for al	Il buildings

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE	
Selections have been made based on information provided in this document. If any selections have been changed by the pern Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.	e form name must be completed through an Acceptance
Form/Title	Systems/Spaces To Be Field Verified

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STATE OF CALIFORNIA		
Indoor Lighting		CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Jade Street Restroom at Capitola Community Center	Report Page:	(Page 7 of 7)
Project Address:	Date Prepared:	2025-06-23T10:26:31-04:00

certify	that this Certificate of Compliance documentation is	s accurate and complete.		
Documentation Author Name:		Documentation Author Signature:		
Eldridge	O. Bell	that the state of		
Company:		Signature Date:		
Aurum C	Consulting Engineers, Monterey	06/26/2025		
Address:	404 W. Franklin St., Suite 100	CEA/ HERS Certification Identification (if applicable):		
City/State/	/Zip: Monterey, CA 93940	Phone: 831-646-3330		
RESPON	NSIBLE PERSON'S DECLARATION STATEMENT			
	e following under penalty of perjury, under the laws of the State of Californ	nia:		
1.				
2.	I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)			
3.	The energy features and performance specifications, materials, compone of Title 24, Part 1 and Part 6 of the California Code of Regulations.	gy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements		
4.	The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.			
5.				
Responsible Designer Name:		Responsible Designer Signature:		
Eldridge	O. Bell	Uddy O. Rell		
Company:		Date Signed:		
Aurum C	Consulting Engineers, Monterey	06/26/2005		
Address:	404 W. Franklin St., Suite 100	License: E17789		
^ity/State/	ty/State/Zip: Monterey, CA 93940 Phone: 831-646-3330			

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AURUM CONSULTING MONTEREY BAY, INC.

Project No. 25-266.00

404 W. Franklin St. • Suite 100 • Monterey, CA 93940 T.831.646.3330 • F.831.646.3336 • www.acemb.com

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ARCHITECTS, INC

2837 MISSION ST | SANTA CRUZ CA 95060

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STREET CA 950 PARK RESTROOM STREET JADE

INTERIOR)

IF THE ABOVE DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING WILL HAVE BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES. BY REVISIONS DATE 01/30/25 BUILDING PERMIT SET BUILDING 06/20/25 PERMIT SET COMMENT 08/15/25 RESPONSE 08/15/25 Scale: AS NOTED Drawn: Job: Sheet

CALIFORNIA ENERGY COMMISSION

Fail

Report Generated: 2025-06-23 07:02:26

STATE OF CALIFORNIA

Outdoor Lighting

H. OUTDOOR LIGHTING CONTROLS

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existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to nultifamily buildings and controlled from the inside of a dwelling unit datory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings Field Inspector Shut-Off Auto-Schedule Motion Sensor

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are

Area Description 130.2(c)1 / 160.5(c) 130.2(c)2 / 160.5(c) 130.2(c)3 / 160.5(c) Pass RESTROOM ENTRANCE Photocontrol NA: >=24 ft NA: MF Complying w 160.5(a) OOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.

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

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

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STATE OF CALIFORNIA **Outdoor Lighting** CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LTO-E Project Name: Jade Street Restroom at Capitola Community Center (Page 2 of 8 2025-06-23T10:02:24-04:0

C. COMPLIANCE RESULTS lesults in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below. General Existing Per Specific Hardscape Application 140.7(d)2 / Allowance **Total Allowed Total Actual** Frontage Allowance 140.7(d)2/ 140.7(d)2/ 07 must be >= 0 140.7(d)1/ 140.7(d)2 170.2(e)6 141.0(b)2L/ (Watts) (Watts) 170.2(e)6 170.2(e)6 170.2(e)6 (See Table K) (See Table L) 180.2(b)4Bv (See Table J) (See Table M) (See Table I) 273.46

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

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

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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STATE OF CALIFORNIA **Outdoor Lighting** CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LTO-E (Page 5 of 8) Project Name: Jade Street Restroom at Capitola Community Center 2025-06-23T10:02:24-04:0

LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e)) This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardscape Allowance is per Table 140.7-A/Table 170.2-R while "Use it or lose it" 'Use it or lose it" Allowance (select all that apply) (select all that apply) Allowances are per Table 140.7-B /Table 170.2-S. Indicate which allowances are being □ General used to expand sections for user input. Luminaires that qualify for one of the "Use it or Hardscape ☐ Per Specific lose it" allowances shall not qualify for another "Use it or lose it" allowance. Sales Frontage 🔲 Ornamental Allowance Outdoor lighting attached to multifamily buildings and controlled from the inside of a Application Table I (below) Table J Table M dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here. Calculated General Hardscape Lighting Power Allowance per Table 140.7-A for Nonresidential & Hotel/Motel Total General ninated Area | Allowed Density | Area Allowance Area Description meter Length | Allowed Density | Linear Allowance | AWA + LWA (W/ft²) (Watts) (W/If) (Watts) (Watts) RESTROOM CANOPY AND ENTRANCE 241 0.021 5.06 0.2 18.4 23.46 Initial Wattage Allowance for Entire Site (Watts): Instances of Initial Wattage Allowance (LZ 0 only)1 Total General Hardscape Allowance (Watts):

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Outdoor Lighting CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LTO-Project Name: Jade Street Restroom at Capitola Community Center (Page 7 of 8 2025-06-23T10:02:24-04:

itional Remarks. These documents must be provided to the building inspector during construction and can be found online Form/Title NRCI-LTO-E - Must be submitted for all buildings P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. dditional Remarks. 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: http://www.energy.ca.gov/title24/attcp/providers.html Systems/Spaces To Be Field Verified NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires. RESTROOM ENTRANCE: "XA"

Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E.

STATE OF CALIFORNIA **Outdoor Lighting** CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANC NRCC-LTO-I oject Name: Jade Street Restroom at Capitola Community Center (Page 3 of 8) 2025-06-23T10:02:24-04:00

F. OUTDOOR LIGHTING FIXTURE SCHEDULE For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being nstalled and replacement luminaires beina installed as part of the project scope are included (ie, existina luminaires remaining or existina luminaires beina moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here. signed Wattage: 03 | 04 | 05 | 06 | 07 | 6,200 initial How is Excluded pe ame or Iter Watts per Total Number Luminaire 140.7(a) / Design Watts Complete Luminaire Description Wattage lumen output Status³ luminaire^{1, 2} Luminaires ² 130.2(b)/ determined 170.2(e)6A 160.5(c)1⁴ JRFACE MOUNTED CANOPY NA: < 6200 Mfr. Spec 152 FIXTURE lumens Total Design Watts: NOTES: Selections with a * require a note in the space below explaining how compliance is achieved. Luminaire is lighting a statue; EXCEPTION 2 to 130.2(b)

 $^{\circ}$ OOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b) ² For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires. ³ Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of

⁴ Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b)/ 160.5(c)

G. SHIELDING REQUIREMENTS (BUG) This section does not apply to this project.

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LIGHTING ALLOWANCE: PER APPLICATION his table includes areas using the wattage allowance per application from Table 140.7-B / Table 170.2-S. 03 04 05 **CALCULATED ALLOWANCE (Watts)** Extra Area Description Application per Table 140.7-B¹ # of Allowance per Allowance Name or Design Watt Locations Location² Luminaire Luminaires (Watts) (Watts) Item Tag RESTROOM ENTRANCE Building Entrance/Exit Total Design Watts for this Area: 152 Total Allowance (Watts) All Areas:

OTNOTES: Primary entrance applications are only available for senior care facilities, healthcare facilities, police stations, hospitals, fire stations, and emergency vehicle facilities The Allowance per Location for ATMs is 100W for the first ATM and 35W for each additional per Table 140.7-B /Table 170.2-S. ³ For luminaires indicated in Table F as linear, wattage in column 07 is W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires

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

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

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA This section does not apply to this project. N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only) This section does not apply to this project.

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OCUMENTATION AUTHOR'S DECLARATION STATEMENT certify that this Certificate of Compliance documentation is accurate and complete. nentation Author Name entation Author Signature: dridge O. Bell rum Consulting Engineers, Monterey 06/26/2025 ress: 404 W. Franklin St., Suite 100 CEA/ HERS Certification Identification (if applicable Phone: 831-646-3330 te/Zip: Monterey, CA 93940 ESPONSIBLE PERSON'S DECLARATION STATEMENT tify the following under penalty of perjury, under the laws of the State of California: The information provided on this Certificate of Compliance is true and correct. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer) The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requi of Title 24, Part 1 and Part 6 of the California Code of Regulations. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable

inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupance tesponsible Designer Signature: ldridge O. Bell Aurum Consulting Engineers, Monterey ress: 404 W. Franklin St., Suite 100

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

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ARCHITECTS. IN 2837 MISSION ST | SANTA CRUZ CA 95060

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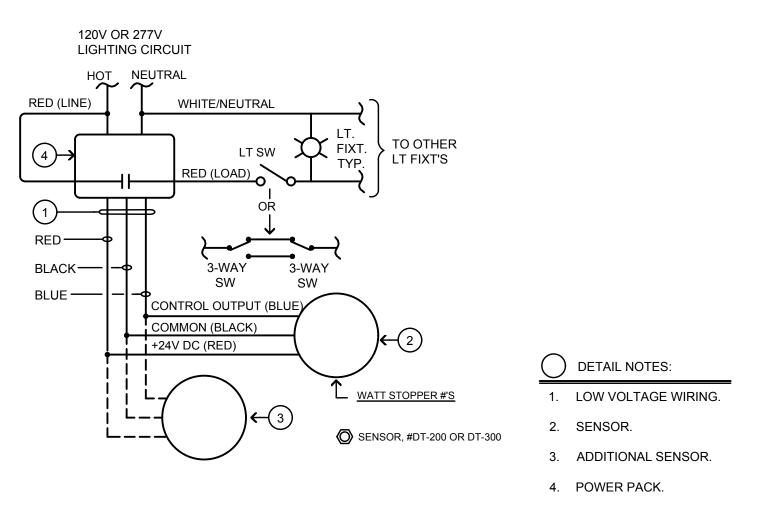
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Project No. 25-266.00

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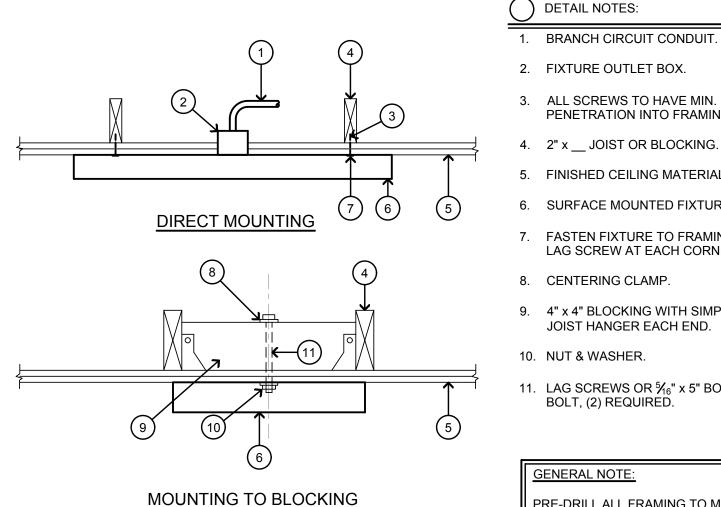
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- A. ALL SENSOR LOCATIONS ARE APPROXIMATE, REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION.
- B. DUAL TECHNOLOGY CEILING MOUNT SENSORS REQUIRE THEY BE LOCATED NO CLOSER THAN 6' FROM AIR SUPPLY/RETURN REGISTERS.
- CONTRACTOR IS RESPONSIBLE FOR: PROPER SENSITIVITY & TIME DELAY SETTINGS & MANUFACTURER'S RECOMMENDED PLACEMENT, FIELD VERIFICATION OF CIRCUITS WITH RESPECT TO POWER PACK
- D. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF REQUIRED NUMBER OF POWER PACKS.
- E. ONE POWER PACK IS REQUIRED FOR EACH CIRCUIT THAT IS TO BE CONTROLLED.
- DEPENDING ON TYPE OF SENSOR UP TO 3 SENSORS CAN BE WIRED IN PARALLEL TO A SINGLE POWER
- FINAL DETERMINATION OF CIRCUITING, VOLTAGE AND QUANTITY OF POWER PACKS REQUIRED, AND SETTING OF SENSITIVITY/TIME ADJUSTMENTS ARE THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR. AND/OR COMMISSIONING AGENT, MANUFACTURER'S INSTALLATION INSTRUCTIONS SHOULD BE ADHERED TO.

OCCUPANCY SENSOR WIRING DIAGRAM

NO SCALE



DETAIL NOTES:

- FIXTURE OUTLET BOX.
- 3. ALL SCREWS TO HAVE MIN. 11/2" PENETRATION INTO FRAMING.
- 4. 2" x __ JOIST OR BLOCKING.
- 5. FINISHED CEILING MATERIAL. (SEE ARCH).
- 6. SURFACE MOUNTED FIXTURE.
- 7. FASTEN FIXTURE TO FRAMING W/ 1/2" DIA. LAG SCREW AT EACH CORNER.
- 8. CENTERING CLAMP.
- 9. 4" x 4" BLOCKING WITH SIMPSON U44 JOIST HANGER EACH END.
- 10. NUT & WASHER.
- 11. LAG SCREWS OR ⁵/₁₆" x 5" BOX HOLDER BOLT, (2) REQUIRED.

GENERAL NOTE:

PRE-DRILL ALL FRAMING TO MINIMIZE POSSIBILITY OF SPLITTING BLOCKING.

SURFACE MOUNTED FIXTURE DETAIL



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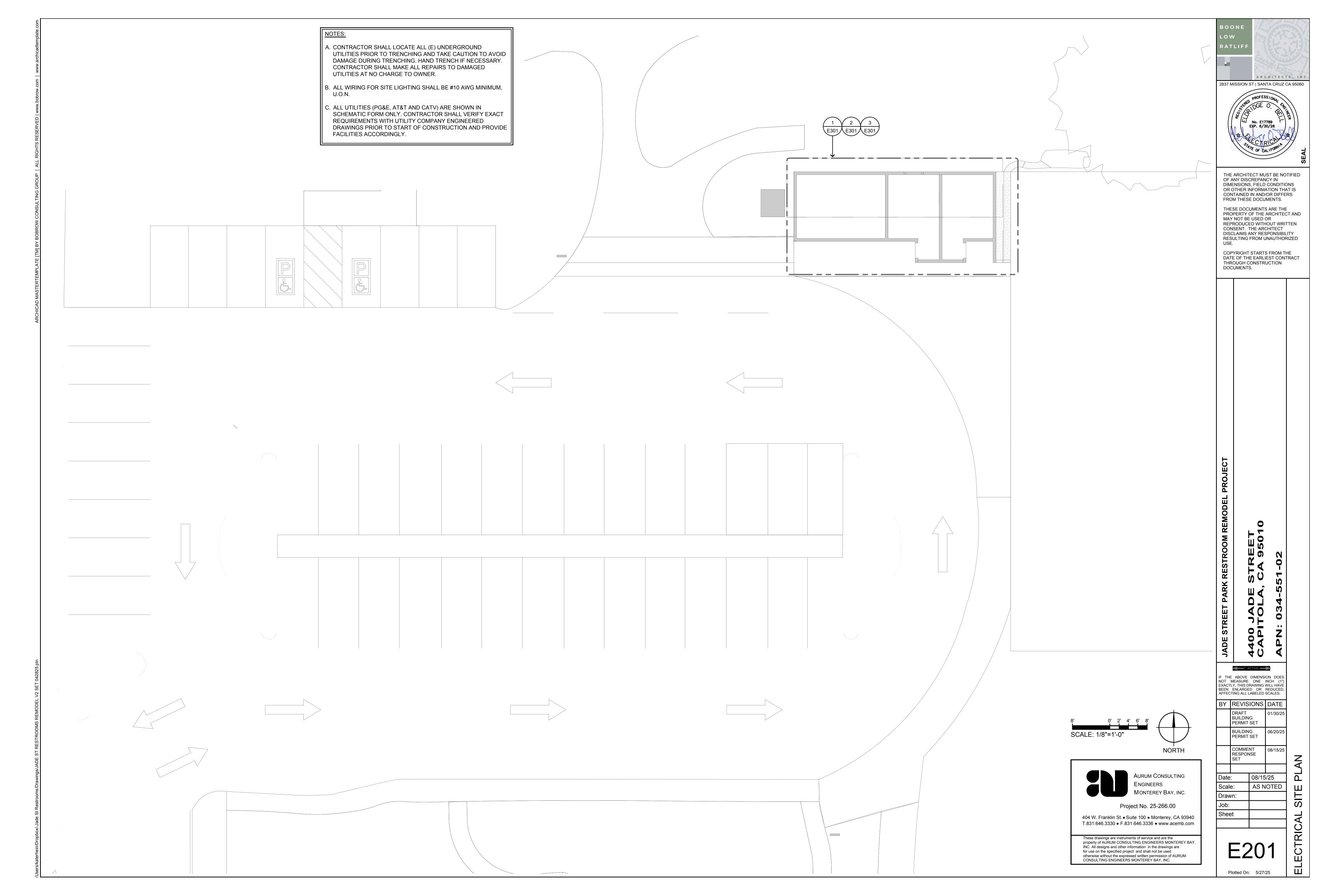
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COMMENT 08/15/25 RESPONSE 08/15/25 AS NOTED

Scale: Drawn: Job: Sheet



BRANCH CIRCUIT CONDUCTOR SIZING TABLE CIRCUIT MPACITY/VOLTAGE CIRCUIT LENGTH REQUIREMENT 20/120 ½" C., 2 #10 & 1 #10 GND. 20/120 ½" C., 2 #8 & 1 #8 GND. 20/277 131'-205' ½" C., 2 #10 & 1 #10 GND. 20/277 ½" C., 2#8 & 1#8 GND. 206'-330'

- A. CONTRACTOR SHALL SIZE BRANCH CIRCUIT CONDUCTORS PER THE TABLE ABOVE AS DETERMINED BY THE CIRCUIT CONDUCTOR LENGTH, U.O.N. CONTRACTOR SHALL SPLICE TO #12 AWG WITHIN TERMINATION BOX FOR DEVICE CONNECTION IF NECESSARY.
- WHERE THE UNGROUNDED CONDUCTORS IS INCREASED IN SIZE, INCLUDING FOR VOLTAGE DROP, THE GROUNDED CONDUCTOR SHALL BE INCREASED IN SIZE PROPORTIONATELY PER CEC 250.122(B)

GENERAL DEMOLITION NOTES

- CONTRACTOR SHALL FIELD VERIFY EXTENT OF ELECTRICAL DEMOLITION AND QUANTITIES OF ELECTRICAL TO BE REMOVED AS DICTATED BY THE REQUIREMENTS OF THE PROJECT.
- REMOVAL SHALL INCLUDE WIRING, RACEWAY, BOXES, SWITCHES, LIGHT FIXTURES, ETC. AS INDICATED ON THE PLANS AND AS REQUIRED BY THESE DEMOLITION NOTES.
- RACEWAYS ASSOCIATED WITH ELECTRICAL BEING DEMOLISHED WHICH ARE CONCEALED IN
- EXISTING REMAINING WALLS MAY BE ABANDONED IN PLACE. REMOVE WIRING FROM CONDUIT. RACEWAYS ASSOCIATED WITH ELECTRICAL BEING DEMOLISHED WHICH ARE EXPOSED SHALL BE
- WHERE REMOVAL OF EQUIPMENT OR WIRING IS INDICATED, IT SHALL INCLUDE ALL ASSOCIATED WIRING BACK TO LAST ACTIVE REMAINING OUTLET, DEVICE, FIXTURE OR PANEL.
- ELECTRICAL CONTRACTOR SHALL INSURE THAT ALL REMAINING ACTIVE CIRCUITS, DEVICES, OUTLETS, LIGHT FIXTURES, ETC. HAVE NOT BEEN DISCONNECTED OR MADE INOPERATIVE DURING DEMOLITION. ELECTRICAL CONTRACTOR SHALL RESTORE ALL INTERRUPTED OR DISCONNECTED CIRCUITS TO OPERATION.
- G. ELECTRICAL CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL REMOVED ELECTRICAL EQUIPMENT AND MATERIAL.
- H. NO REMOVED EQUIPMENT OR MATERIAL SHALL BE REUSED AS PART OF NEW WORK, U.O.N.

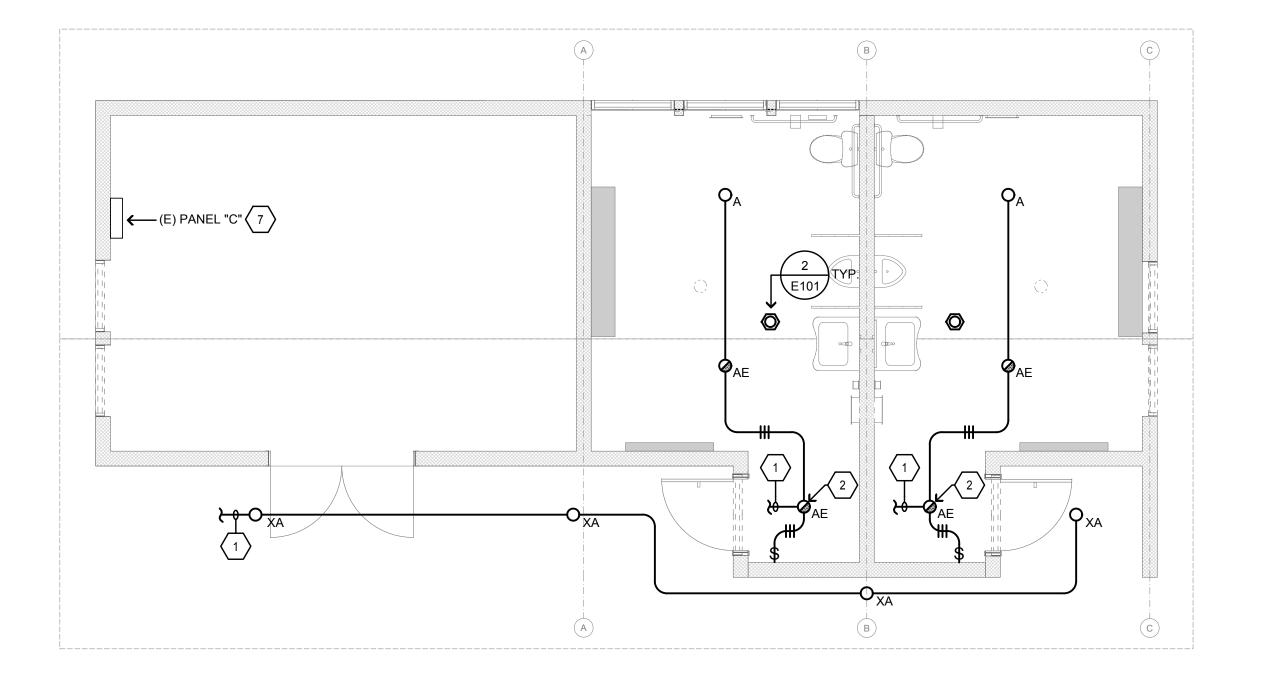
- I. EXISTING REMAINING CONCEALED RACEWAYS MAY BE REUSED FOR NEW WORK PROVIDED THEY MEET ALL REQUIREMENTS OF THE SPECIFICATION FOR NEW WORK.
- EXISTING FLUSH OUTLETS MAY BE REUSED FOR NEW WORK PROVIDED THEY MEET ALL REQUIREMENTS OF THE SPECIFICATION FOR NEW WORK, MEET THE REQUIREMENTS OF THE CURRENT C.E.C. FOR VOLUME AND COINCIDE WITH LOCATION SHOWN FOR THE NEW WORK.
- K. FLUSH OUTLET BOXES IN EXISTING WALLS TO REMAIN MAY BE ABANDONED IN PLACE. REMOVE DEVICES AND WIRING, PLUG OPENING AND PROVIDE AND INSTALL A BLANK DEVICE PLATE.
- L. EXISTING WIRING SHOWN HAS BEEN TAKEN FROM OLD PLANS AND IS ASSUMED TO BE CORRECT. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ACTUAL CONDITIONS AND MAKE ADJUSTMENTS TO SUIT ACTUAL CONDITIONS AND TO MEET THE INTENT OF THE CONTRACT DOCUMENTS.
- M. WHERE TELEPHONE, COMPUTER DATA, FIBER OPTICS, FIRE ALARM OR OTHER COMMUNICATIONS OUTLETS OR WIRING IS TO BE DEMOLISHED IT SHALL BE REMOVED BACK TO THE NEXT TERMINAL POINT, ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OWNER OR OWNER'S REPRESENTATIVE TO HAVE EQUIPMENT AND WIRING DESIGNATED FOR REMOVAL OR PRESERVATION PRIOR TO REMOVAL OF OUTLET BOXES, CONDUIT OR WIRING BY ELECTRICAL CONTRACTOR.
- N. COORDINATE WITH OWNER PRIOR TO START OF DEMOLITION TO MINIMIZE POWER INTERRUPTIONS, WORK MAY HAVE TO OCCUR DURING NON-REGULAR BUSINESS HOURS. COORDINATE IN WRITING WITH OWNER ONE WEEK PRIOR TO PLANNED POWER INTERRUPTIONS.

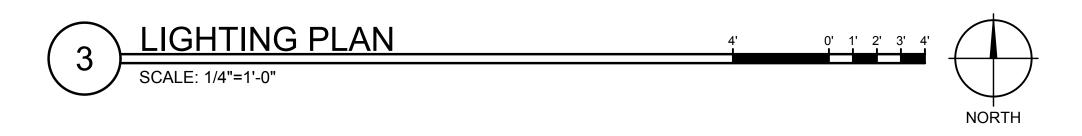
SHEET NOTES

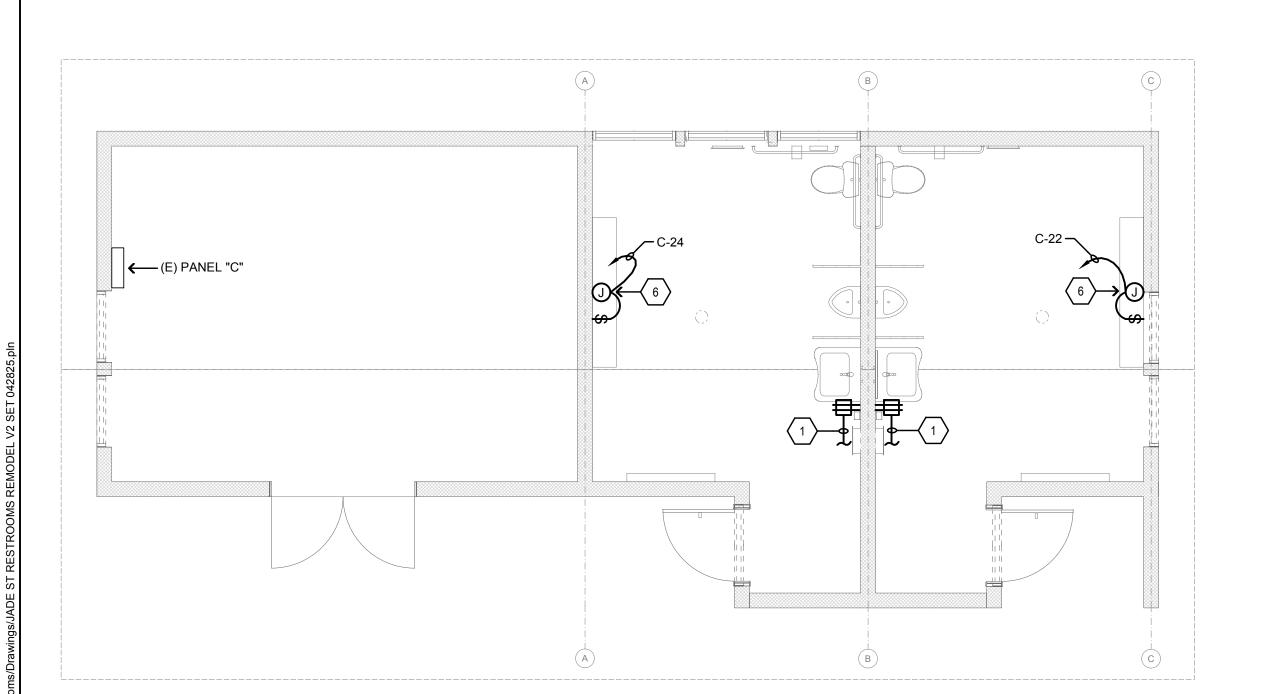
- . CONNECT TO EXISTING SALVAGED CIRCUIT.
- 2. CONNECT EM BATTERY WITH AN ADDITIONAL UN-SWITCHED HOT.
- 3. NO WORK IN THIS AREA.
- . DEMOLISH LIGHT FIXTURES AND ASSOCIATED CONTROLS PER GENERAL DEMOLITION NOTES ON THIS SHEET. CONTRACTOR SHALL SALVAGE UNSWITCHED LIGHTING BRANCH CIRCUITS FOR
- 5. DEMOLISH EXISTING DEVICES PER DEMOLITION NOTES THIS SHEET. CONTRACTOR SHALL SALVAGE EXISTING ELECTRICAL CIRCUITS FOR RE-USE.
- 6. LOCATE FOR POWERED CHANGING TABLE; 110V, 3.9 AMPS.
- 7. EXISTING PANEL "C". SEE PANEL SCHEDULE ON SHEET E101 FOR NEW WORK.

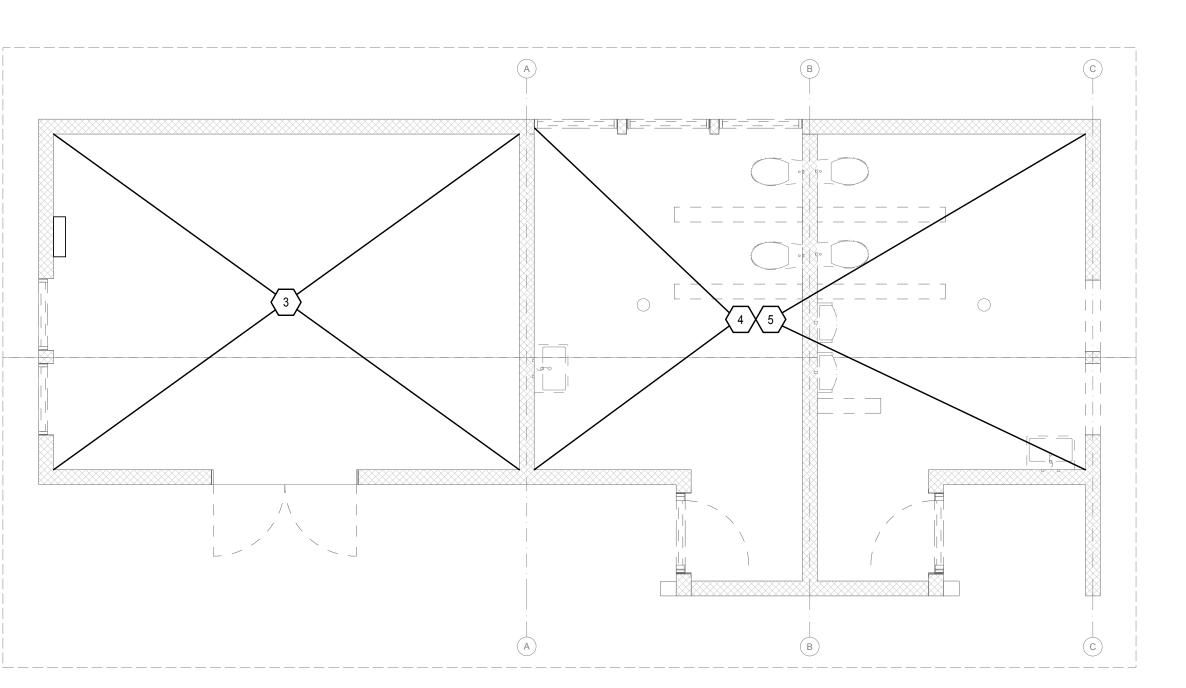
GENERAL NOTE:

SEE SHEET E101 FOR LIGHTING CONTROLS.

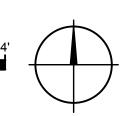








POWER & SYSTEMS PLAN



ELECTRICAL DEMOLITION PLAN





AURUM CONSULTING

Project No. 25-266.00

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COMMENT **RESPONSE** 08/15/25 Scale: AS NOTED Drawn: Job:

of this contract.

1.01 Description of Work: A. Furnish and install all required in-place equipment, conduits, conductors, cables and any miscellaneous materials for the satisfactory interconnection and operation of all associated electrical systems.

1.02 Submittals: A. As specified in Division 01. Submit to the Architect shop drawings, manufacturer's data and certificates for equipment, materials and finish, and pertinent details for each system specified. Information to be submitted includes manufacturer's descriptive literature of cataloged products, equipment, drawings, diagrams, performance and characteristic curves as applicable, test data and catalog cuts. Obtain written approval before procurement, fabrication, or delivery of the items to the job site.

B. Proposed substitutions of products will not be reviewed or approved prior to awarding of the

C. Substitutions shall be proven to the Architect or Engineer to be equal or superior to the specified product. Architect's decision is final. The Contractor shall pay all costs incurred by the Architect 3.05 Clean Up: and Engineer in reviewing and processing any proposed substitutions whether or not a proposed substitution is accepted D. If a proposed substitution is rejected, the contractor shall furnish the specified product at no

E. If a proposed substitution is accepted, the contractor shall be completely responsible for all dimensional changes, electrical changes, or changes to other work which are a result of the substitution. The accepted substitution shall be made at no additional cost to the owner or

1.03 Quality Assurance: A. Codes: All electrical equipment and materials, including installation and testing, shall conform to the latest editions of the following applicable codes: California Electrical Code (CEC).

2. Occupational Safety and Health Act (OSHA) standards. 3. All applicable local codes, rules and regulations. 4. Electrical Contractor shall posses a C-10 license and all other licenses as may be required. Licenses shall be in effect at start of this contract and be maintained throughout the duration

B. Variances: In instances where two or more codes are at variance, the most restrictive requirement shall apply. C. Standards: Equipment shall conform to applicable standards of American National Standards

Institute (ANSI), Electronics Industries Association (EIA), Institute of Electrical and Electronics Engineers (IEEE), and National Electrical Manufacturers Association (NEMA). D. Underwriter Laboratories (UL) listing is required for all equipment and materials where such listing is offered by the Underwriters Laboratories. Provide service entrance labels for all

equipment required by the NEC to have such labels. E. The electrical contractor shall guarantee all work and materials installed under this contract fo a period of one (1) year from date of acceptance by owner.

F. All work and materials covered by this specification shall be subject to inspection at any and all times by representatives of the owner. Work shall not be closed in or covered before inspection and approval by the owner or his representative. Any material found not conforming with these specifications shall, within 3 days after being notified by the owner, be removed from premises; if said material has been installed, entire expense of removing and replacing same, including any cutting and patching that may be necessary, shall be borne by the contractor.

1.04 Contract Documents: A. Drawings: The Electrical Drawings shall govern the general layout of the completed

1. Locations of equipment, panels, pullboxes, conduits, stub-ups, ground connections are approximate unless dimensioned; verify locations with the Architect prior to installation. 2. The general arrangement and location of existing conduits, piping, apparatus, etc., is approximate. The drawings and specifications are for the assistance and guidance of the contractor, exact locations, distances and elevations are governed by actual field conditions.

Accuracy of data given herein and on the drawings is not guaranteed. Minor changes may be necessary to accommodate work. The contractor is responsible for verifying existing conditions. Should it be necessary to deviate from the design due to interference with existing conditions or work in progress, claims for additional compensation shall be limited to those for work required by unforeseen conditions as determined by the Architect. 3. All drawings and divisions of these specifications shall be considered as whole. The contractor shall report any apparent discrepancies to the Architect prior to submitting bids.

4. The contractor shall be held responsible to have examined the site and compared it with the specifications and plans and to have satisfied himself as to the conditions under which the work is to be performed. He shall be held responsible for knowledge of all existing conditions whether or not accurately described. No subsequent allowance shall be made for any extra expense due to failure to make such examination.

1.05 Closeout Submittals A. Manuals: Furnish manuals for equipment where manuals are specified in the equipment specifications or are specified in Division 01

A. Coordinate the electrical work with the other trades, code authorities, utilities and the Architect B. Contractor shall pay all inspection and other applicable fees and procure all permits necessary for the completion of this work. C. Where connections must be made to existing installations, properly schedule all the required

work, including the power shutdown periods D. When two trades join together in an area, make certain that no electrical work is omitted.

1.07 Job Conditions: A. Operations: Perform all work in compliance with Division 01

2. Show all proposed shutdowns and their expected duration on the construction schedule. Schedule and carry out shutdowns so as to cause the least disruption to operation of the Owner's facilities. 3. Carry out shutdown only after the schedule has been approved, in writing, by the owner. Submit power interruption schedule 15 days prior to date of interruption.

ep the number and duration of power shutdown periods to a minim

B. Construction Power: Unless otherwise noted in Division 01 of these specifications, contractor shall make all arrangements and provide all necessary facilities for temporary construction power from the owner's on site source. Energy costs shall be paid for by the Owner.

1.08 Safety and Indemnity: A. The Contractor is solely and completely responsible for conditions of the job site including safety of all persons and property during performance of the work. This requirement will apply continually and not be limited to normal working hours. The contractor shall provide and maintain throughout the work site proper safeguards including, but not limited to, enclosures,

barriers, warning signs, lights, etc. to prevent accidental injury to people or damage to property. B. The Contractor performing work under this Division of the Specifications shall hold harmless. indemnify, and defend the Owner, the Engineer, their consultants, and each of their officers, agents and employees from any and all liability claims, losses, or damage arising out of or alleged to arise from bodily injury, sickness, or death of a person or persons and for all damages arising out of injury to or destruction of property arising directly or indirectly out of or in connection with the performance of the work under this Division of the Specifications, and from the Contractor's negligence in the performance of the work described in the construction contract documents, but not including liability that may be due to the sole negligence of the

Owner, the Engineer, their Consultants or their officers, agents and employees. C. If a work area is encountered that contains hazardous materials, the contractor is advised to coordinate with the owner and it's abatement consultant for abatement of hazardous material by he Owner's Representative. "Hazardous materials" means any toxic substance regulated or controlled by OSHA, EPA, State of California or local rules, regulations and laws. Nothing herein shall be construed to create a liability for Aurum Consulting Engineers regarding hazardous materials abatement measures, or discovery of hazardous materials.

1.09 Access Doors: A. The contractor shall install access panels as required where floors, walls or ceilings must be penetrated for access to electrical, control, fire alarm or other specified electrical devices. The minimum size panel shall be 14" x 14" in usable opening. Where access by a service person is required, minimum usable opening shall be 18" x 24'

1.10 Arc Flash: A. The contractor shall install a clearly visible arc flash warning to the inside door of all panelboards and industrial control panels, as well as to the front of all switchboards and motor

control centers that are a part of this project. B. The warning shall have the following wording: line 1 "WARNING" (in large letters). line 2 "Potential Arc Flash Hazard" (in medium letters), line 3 & 4 "Appropriate Personal Protective Equipment and Tools required when working on this equipment"

1.11 All boxes and enclosures for emergency circuits shall be permanently marked with a readily visible red spray painted mark.

PART 2 - PRODUCTS

2.01 Nameplates: A. Identify each piece of equipment and related controls with a rigid laminated engraved plastic nameplate. Unless otherwise noted, nameplates shall be melamine plastic 0.125 inch thick, white with black center core. Surface shall be matte finish. Corners shall be square. Accurately align lettering and engrave into the core. Minimum size of nameplates shall be 0.5 by 2.5 inches unless otherwise noted. Where not otherwise specified, lettering shall be a minimum of 0.25 inch high normal block style. Engrave nameplates with the inscriptions indicated on the Drawings and, if not so indicated, with the equipment name. Securely fasten nameplates in place using two stainless steel or brass screws.

2.02 Finish requirements:

A. Equipment: Refer to each electrical equipment section of these Specifications for painting equirements of equipment enclosures. Repair any final paint finish which has been damaged or is otherwise unsatisfactory, to the satisfaction of the Architect B. Wiring System: In finished areas, paint all exposed conduits, boxes and fittings to match the

color of the surface to which they are affixed. PART 3 - EXECUTION

3.01 Workmanship: A. All electrical equipment and materials shall be installed in a neat and workmanship manner in accordance with the "NECA-1 Standard Practices For Good Workmanship in Electrical

3.02 Equipment Installations:

Contracting". Workmanship of the entire job shall be first class in every respect. A. Provide the required inserts, bolts and anchors, and securely attach all equipment and materials

C. Farthquake restraints: all electrical equipment, including conduits equal to or greater than 2.5.

inches in diameter, shall be braced or anchored to resist a horizontal force acting in any

to their supports. B. Do all the cutting and patching necessary for the proper installation work and repair any damage done.

D. Structural work: All core drilling, bolt anchor insertion, or cutting of existing structural concrete shall be approved by a California registered structural consulting engineer prior to the execution of any construction. At all floor slabs and structural concrete walls to be drilled, cut or bolt anchors inserted, the contractor shall find and mark all reinforcing in both faces located by means of x-ray, pach-ometer, or prof-ometer. Submit sketch showing location of rebar and proposed cuts, cores, or bolt anchor locations for approval. 3.03 Field Test:

direction as per CBC section 1617A.1.24 Title 24, part 2 and ASCE7, section 13.6.5.

A. Perform equipment field tests and adjustments. Properly calibrate, adjust and operationally check all circuits and components, and demonstrate as ready for service. Operational Tests: Operationally test all circuits to demonstrate that the circuits and equipment have been properly installed and adjusted and are ready for full-time service. Demonstrate the proper functioning of circuits in all modes of operation, including alarm conditions.

A. Maintain one copy of the contract Drawing Sheets on the site of the work for recording the "as built" condition. After completion of the work, the Contractor shall carefully mark the work as actually constructed, revising, deleting and adding to the Drawing Sheets as required. As built Drawings shall be delivered to the Architect within ten (10) days of completion of construction.

A. Upon completion of electrical work, remove all surplus materials, rubbish, and debris that accumulated during the construction work. Leave the entire area neat, clean, and acceptable to

3.06 Mechanical and Plumbing Electrical Work A. The requirements for electrical power and/or devices for all mechanical and plumbing equipment supplied and/or installed under this Contract shall be coordinated and verified with

. Mechanical and Plumbing Drawings. . Mechanical and Plumbing sections of these Specifications. 3. Manufacturers of the Mechanical and Plumbing equipment supplied.

B. The coordination and verification shall include the voltage, ampacity, phase, location and type of disconnect, control, and connection required. Any changes that are required as a result of this coordination and verification shall be a part of this Contract . The Electrical Contractor shall furnish and install the following for all mechanical and plumbing

1 Line voltage conduit and wiring. Disconnect switches. Manual line motor starters

D. Automatic line voltage controls and magnetic starters shall be furnished by the Mechanical and/or Plumbing Contractor and installed and connected by the Electrical Contractor. When subcontracted for by the Mechanical and/or Plumbing Contractor, all line voltage control wiring installed by the Electrical Contractor shall be done per directions from the Mechanical and/or Plumbing Contractor. E. All low voltage control wiring for Mechanical and Plumbing equipment shall be installed in

conduit. Furnishing, installation and connection of all low voltage conduit, boxes, wiring and controls shall be by the Mechanical and/or Plumbing Contractor. Manual motor starters, where required, shall have toggle type operators with pilot light and melting alloy type overload relays, SQUARE D COMPANY, Class 2510, Type FG-1P (surface) or Type FS-1P (flush) or ITE, WESTINGHOUSE or GENERAL ELECTRIC equal.

GROUNDING

PART 1 - EXECUTION

SECTION 26 05 26

1.1 Grounding and Bonding: A. Grounding and bonding shall be as required by codes and local authorities. B. All electrical equipment shall be grounded, including, but not limited to, panel boards, terminal cabinets and outlet boxes.

C. The ground pole of receptacles shall be connected to their outlet boxes by means of a copper ground wire connecting to a screw in the back of the box. A green insulated copper ground wire, sized to comply with codes, shall be installed in all

All metal parts of pull boxes shall be grounded per code requirements.

F. All ground conductors shall be green insulated copper.

SECTION 26 05 42 CONDUITS, RACEWAYS AND FITTINGS

PART 1 - EXECUTION

1.01 Conduit, Raceway and Fitting Installation

A. For conduit runs exposed to weather provide hot dipped galvanized rigid metal (GRS). B. For conduit run underground, in concrete or masonry block wall and under concrete slabs. install minimum 3/4" size nonmetallic (PVC) with PVC elbows. Where conduits transition from underground or under slab to above grade install wrapped rigid metal (GRS) elbows and risers C. For conduit runs concealed in steel or wood framed walls or in ceiling spaces or exposed in

interior spaces above six feet over the finished floor, install EMT. Flexible metal conduit shall be used only for the connection of recessed lighting fixtures and motor connections unless otherwise noted on the Drawings. Liquid-tight steel flexible conduit shall be used for motor connections. The minimum size raceway shall be 1/2-inch unless indicted otherwise on the Drawings.

Installation shall comply with the CEC. G. From pull point to pull point, the sum of the angles of all of the bends and offset shall not exceed H. Conduit Supports: Properly support all conduits as required by the NEC. Run all conduits

cept where otherwise shown on the drawings 1. Exposed Conduits: Support exposed conduits within three feet of any equipment or device and at intervals not exceeding NEC requirements; wherever possible, group conduits together and support on common supports. Support exposed conduits fastened to the surface of the concrete structure by one-hole clamps, or with channels. Use conduit spacers with one-hole clamps.

a. Conduits attached to walls or columns shall be as unobtrusive as possible and shall avoid windows. Run all exposed conduits parallel or at right angles to building lines. b. Group exposed conduits together. Arrange such conduits uniformly and neatly. Support all conduits within three feet of any junction box, coupling, bend or fixture. Support conduit risers in shafts with Unistrut Superstrut, or approved equal, channels and

Moisture Seals: Provide in accordance with NEC paragraphs 230-8 and 300-5(g). . Where PVC conduit transitions from underground to above grade, provide rigid steel 90's with risers. Rigid steel shall be half-lap wrapped with 20 mil tape and extend minimum 12" above

K. Provide a nylon pull cord in each empty raceway. Provide galvanized rigid steel factory fittings for galvanized rigid steel conduit. M. Slope all underground raceways to provide drainage; for example, slope conduit from

equipment located inside a building to the pull box or manhole located outside the building.

N. Conduits shall be blown out and swabbed prior to pulling wires. **SECTION 26 05 19**

LINE VOLTAGE WIRE AND CABLE

A. Conductors shall be copper, type THHN/THWN/MTW oil and gasoline resistant, 90°C, 600 volt Conductors shall be stranded copper

Minimum power and control wire size shall be No. 12 AWG unless otherwise noted. D. All conductors used on this Project shall be of the same type and conductor material.

A. Manufacturer - Terminals as manufactured by T&B, Burndy or equal. B. Wire Terminations - Stranded conductors shall be terminated in clamping type terminations which serve to contain all the strands of the conductor. Curling of a stranded conductor around a screw type terminal is not allowed. For screw type terminations, use a fork type stake-on termination on the stranded conductor. Use only a stake-on tool approved for the fork terminals C. End Seals - Heat shrink plastic caps of proper size for the wire on which used.

A. Tape used for terminations and cable marking shall be compatible with the insulation and jacket 1.03 Plates: of the cable and shall be of plastic material.

[1.04 Cables: A. Type MC Armored Cable: 1. Conductors shall be copper type THHN/THWN/MTW oil and gasoline resistant, 600 volt

rated insulation. 2. Conductors shall be stranded copper No.8 AWG and above. Minimum power and control wire shall be No.12 AWG unless otherwise noted. 4. All conductors used on this project shall be of the same type and conductor material.

Light weight aluminum interlocked armor. 6. Integral green insulated grounding conductor.] PART 2 - EXECUTION

2.01 Cable Installation:

A. Clean Raceways - Clean all raceways prior to installation of cables as specified in Section 26 05 42 - Conduits Raceway and Fittings 3. All wiring including low voltage wiring shall be installed in conduit, U.O.N.

All feeder conductors shall be continuous from equipment to equipment. Splices in feeders are not permitted unless specifically noted or approved by the Electrical Engineer D. All branch circuit wiring shall be run concealed in ceiling spaces, walls, below floors or in crawl paces unless noted otherwise.

2.02 Cable Terminations and Splices: A. Splices - UL Listed wirenuts.

B. Terminations - Shall comply with the following: 1. Make up and form cable and orient terminals to minimize cable strain and stress on device 2. Burnish oxide from conductor prior to inserting in oxide breaking compound filled terminal.

2.03 Circuit and Conductor Identification: A. Color Coding - Provide color coding for all circuit conductors. Insulation color shall be white for neutrals and green for grounding conductors. Conductor colors shall be as follows:

> Phase B Red Phase C

Ground Green Color coding shall be in the conductor insulation for all conductors #10 AWG and smaller; for larger conductors, color shall be either in the insulation or in colored plastic tape applied at every location where the conductor is readily accessible. C. Circuit Identification - All underground distribution and service circuits shall be provided with

plastic identification tags in each secondary box and at each termination. Tags shall identify the source transformer of the circuit and the building number(s) serviced by the circuit

A. All systems shall test free from short circuits and grounds, shall be free from mechanical and electrical defects, and shall show an insulation resistance between phase conductors and ground of not less than the requirements of the CEC. All circuits shall be tested for proper neutral connections

3. Insulation Resistance Tests: perform insulation resistance tests on circuits with #2 AWG and larger conductors to be energized with a line-to-neutral voltage of 120 volts or more. Make these tests before all equipment has been connected. Test the insulation with a 500Vdc insulation resistance tester with a scale reading 100 megohms. The insulation resistance shall be 2 megohms or more. Submit results for review. C. Contractor shall torque all termination of feeders/circuits terminations where required per CEC

and manufacturer labeling requirements at point of connection.

OUTLET, JUNCTION AND PULL BOXES

PART 1 - PRODUCTS

1.01 Outlet boxes, Junction and Pull boxes A. Standard Outlet Boxes: Galvanized, steel, knock-out type of size and configuration best suited to the application indicated on the Drawings. Minimum box size shall be 4 inches square (octagon for most light fixtures) by 1-1/2 inches deep with mud rings as required. Boxes used with conduit 1" or larger shall be minimum 2" deep.

B. Switch boxes: Minimum box size shall be 4 inches square by 1-1/2 inches deep with mud rings as required. Install multiple switches in standard gang boxes with raised device covers suitable for the application indicated. Conduit bodies: Cadmium plated, cast iron alloy. Conduit bodies with threaded conduit hubs

and neoprene gasketed, cast iron covers. Bodies shall be used to facilitate pulling of conductors or to make changes in conduit direction only. Splices are not permitted in conduit bodies. Crouse-Hinds Form 8 Condulets, Appleton Form 35 Unilets or equal. Sheet Metal Boxes: Use standard outlet or concrete ring boxes wherever possible: otherwise use a minimum 16 gauge galvanized sheet metal, NEMA I box sized to Code requirements with

covers secured by cadmium plated machine screws located six inches on centers. Circle AW

Products, Hoffman Engineering Company or equal. E. Flush Mounted Pull boxes and Junction boxes: Provide overlapping covers with flush head cover retaining screws, prime coated.

PART 2 - EXECUTION

2.01 Outlet Boxes 1. All outlet boxes shall finish flush with building walls, ceilings and floors except in mechanical and electrical rooms above accessible ceiling or where exposed work is called for on the

2. Install raised device covers (plaster rings) on all switch and receptacle outlet boxes installed in masonry or stud walls or in furred, suspended or exposed concrete ceilings. Covers shall be of a depth to suit the wall or ceiling finish

3. Leave no unused openings in any box. Install close-up plugs as required to seal openings 1. Outlet boxes shall be installed at the locations and elevations shown on the drawings or specified herein. Make adjustments to locations as required by structural conditions and to

suit coordination requirements of other trades 2. Locate switch outlet boxes on the latch side of doorways. 3. Outlet boxes shall not be installed back to back nor shall through-wall boxes be permitted Outlet boxes on opposite sides of a common wall shall be separated horizontally by at least one stud or vertical structural member

4. For outlets mounted above counters, benches or backsplashes, coordinate location and mounting heights with built-in units. Adjust mounting height to agree with required location for equipment served 5. On fire rated walls, the total face area of the outlet boxes shall not exceed 100 square inches

C. Supports: 1. Outlet Boxes installed in metal stud walls shall be equipped with brackets designed for attaching directly to the study or shall be mounted on specified box supports. 2. Fixture outlet boxes installed in suspended ceiling of gypsum board or lath and plaster construction shall be mounted to 16 gauge metal channel bars attached to main ceiling

3 Fixture outlet boxes installed in suspended ceilings supporting acoustical tiles or panels shall be supported directly from the structure above where pendant mounted lighting fixture are to be installed on the box 4. Fixture Boxes above tile ceilings having exposed suspension systems shall be supported directly from the structure above 5. Outlet and / or junction boxes shall not be supported by grid or fixture hanger wires at any

Junction And Pull Boxes

per 100 square feet of wall area.

1. Install junction or pull boxes where required to limit bends in conduit runs to not more than 360 degrees or where pulling tension achieved would exceed the maximum allowable for the cable to be installed. Note that these boxes are not shown on the Drawings 2. Locate pull boxes and junction boxes in concealed locations above accessible ceilings or

exposed in electrical rooms, utility rooms or storage areas. exposed concrete ceilings. Covers shall be of a depth to suit the wall or ceiling finish. Leave no unused openings in any box. Install close-up plugs as required to seal openings. Identify circuit numbers and panel on cover of junction box with black marker pen

1. Boxes above hung ceilings having concealed suspension systems shall be located adjacent to openings for removable recessed lighting fixtures. 1. Boxes installed in metal stud walls shall be equipped with brackets designed for attaching directly to the studs or shall be mounted on specified box supports. 2. Boxes installed in suspended ceilings of gypsum board or lath and plaster construction shall

be mounted to 16 gauge metal channel bars attached to main ceiling runners. 3. Boxes installed in suspended ceilings supporting acoustical tiles or panels shall be supported directly from the structure above. 4. Boxes mounted above suspended acoustical tile ceilings having exposed suspension

systems shall be supported directly from the structure above **SECTION 26 27 26**

DEVICES WIRING

Box Layouts

PART 1 - PRODUCTS

1.01 Receptacles:

A. GFCI Receptacles: 1. Device shall be rated 20 ampere, 2-pole, 3-wire, 120 volt, conforming to NEMA 5-20 configuration. Face shall be nylon composition. Unit shall have an LED type red indicator light, test and reset push buttons. Color shall be as selected by the Architect. 2. GFCI component shall meet UL 943 Class A standards with a tripping time of 1/40 second at

5 milliamperes current unbalance. Operating range shall extend from -31°F to 158°F. Unit

shall have transient voltage protection and shall be ceramic encapsulated for protection 3. Manufacturer: Hubbell #GF20_ _LA Series, Leviton #7899 Series.

A. Switches shall be rated 20 amperes to 120/277 volts ac. Units shall be flush mounted, self-grounding, quiet operating toggle devices. Handle color shall be as selected by the

3. Manufacturer: Hubbell #HBL1221 Series, Leviton #1221 Series B. Timed switches: Shall be as designed by Paragon Electric Company # ET2000f or Watt Stopper TS-400 rated for the voltage specified on drawings. Time out shall be adjustable from 5 minutes up to 12 hours. Unit shall be provided with warning alarm.

A. General - Plates shall be of the style and color to match the wiring devices, and of the required number of gangs. Plates shall conform with NEMA WD 1 , UL 514 and FS W-P-455A. Plates on finished walls shall be non-metallic or stainless steel. Plates on unfinished walls and on fittings shall be of zinc plated steel or case metal and shall have rounded corners and beveled

B. Non-Metallic: Plates shall be plain with beveled edges and shall be nylon or reinforced C. Stainless Steel: Plates shall be .040 inches thick with beveled edges and shall be

manufactured from No. 430 alloy having a brushed or satin finish.). Cast Metal: Plates shall be cast or malleable iron covers with gaskets so as to be moisture resistant or weatherproof. E. Blank Plates: Cover plates for future telephone outlets shall match adjacent device wall plates

PART 2 - EXECUTION

Receptacles

in appearance and construction.

2.01 Installation of Wiring Devices: A. Interior Locations: In finished walls, install each device in a flush mounted box with washers as SECTION 26 51 10 required to bring the device mounting strap level with the surface of the finished wall. On unfinished walls, surface mount boxes level and plumb.

B. Mounting Heights: Adjust boxes so that the front edge of the box shall not be farther back from

the finished wall plane than 1/4-inch. Adjust boxes so that they do not project beyond the finished wall. Height of device shall be as follows 1. Receptacles 15 Inches from finished floor to bottom of box unless otherwise noted on the 2. Toggle Switches 48 Inches from finished floor to top of box.

be lost to other receptacles in the same circuit.

1. Ground each receptacle using a grounding conductor, not a yoke or screw contact.

removal of the receptacle will not disrupt neutral continuity and branch circuit power will not

2.02 Installation of Wall Plates:

A. General - Plates shall match the style of the device and shall be plumb within 1/16-inch of the vertical or horizontal. B. Interior Locations, Finished Walls: Install non-metallic plates so that all four edges are in

continuous contact with the finished wall surfaces. Plaster filling will not be permitted. Do not use oversized plates or sectional plates.

Interior Locations, Unfinished Walls: Install stainless steel or cast metal cover plates Exterior Locations: Install cast metal plates with gaskets on wiring devices in such a manner as to provide a rain tight weatherproof installation. Cover type shall match box type. Cover shall be

[Lockable] outdoor extra-duty "in-use" type. Future Locations: Install blank cover plates on all unused outlets. Labeling: All switch and receptacle plates shall be labeled on the top portion of the plate with the panelboard and circuit number serving that device. Lettering shall be 1/16" minimum high, black color, on clear Mylar tape.

A. Receptacles

1. After installation of receptacles, energize circuits and test each receptacle to detect lack of ground continuity, reversed polarity, and open neutral condition.

SECTION 26 28 16 CIRCUIT BREAKERS

PART 1 - PRODUCTS

1.01 Circuit Breaker: Each circuit breaker shall consist of the following: A. A molded case breaker with an over center toggle-type mechanism, providing quick-make quick-break action. Each circuit breaker shall have a permanent trip unit containing individual thermal and magnetic trip elements in each pole. Multipole circuit breakers shall have variable magnetic trip elements which are set by a single adjustment to assure uniform tripping

characteristics in each pole. Circuit breakers shall be of the bolt-on type unless otherwise noted Breaker shall be calibrated for operation in an ambient temperature of 40°C. Each circuit breaker shall have trip indication by handle position and shall be trip-free Three pole breakers shall be common trip.

The circuit breakers shall be constructed to accommodate the supply connection at either end of the circuit breaker. Circuit breaker shall be suitable for mounting and operation in any Breakers shall be rated as shown on Drawings. . Circuit breaker and/or Fuse/circuit breaker combinations for series connected interrupting ratings shall be listed by UL as recognized component combinations for use in the end use

equipment in which it is installed. Any series rated combination used shall be marked on the end use equipment per CEC section 110-22. H. Breakers shall be UL listed. Circuit breakers shall have removable lugs. Lugs shall be UL listed for copper and aluminum conductors.

Breakers shall be UL listed for installation of mechanical screw type lugs

K. Circuit breakers serving HACR rated loads shall be HACR type. Circuit breakers serving other motor loads shall be motor rated. Breakers indicated as "current limiting" (CL), shall be of the non-fused type; Square D I-Limiter,

SECTION 26 51 00

1.01 Description of Work: A. The work of this section consists of providing a lighting system complete, including fixtures lamps, hangers, reflectors, glassware, lenses, auxiliary equipment, ballasts and sockets.

1.02 Related Work A. See the following specification sections for work related to the work of this section: . 26 05 00 General Electrical Requirements. 2. 26 05 42 Conduit, Raceway and Fittings.

4. 26 05 33 Outlet, Junction and Pull Boxes 1.03 Submittals: In accordance with Division 01

26 05 19 Line Voltage Wire and Cable.

Westinghouse Limit-R, or ITE Sentron only.

A. Submit descriptive data, photometric curves for each fixture configuration proposed. Submit shop drawings showing proposed methods for mounting lighting fixtures.

Seismic Requirements: Submit . Sketch or description of the anchorage system.

Submit Operation and Maintenance Data per Division 01 1.04 Warranty: High Intensity Discharge lamps which fail within the first year after final acceptance

PART 2 - PRODUCTS

A. Fixtures shall be of the types, wattage's and voltages shown on the Drawings and be UL classified and labeled for the intended use.

shall be replaced by the Contractor with the warranty clause of the General Provisions.

. Substitutions will not be considered unless the photometric distribution curve indicates the proposed fixture is equal to or exceeds the specified luminaire. Luminaire wire, and the current carrying capacity thereof shall be in accordance with the CEC Luminaires and lighting equipment shall be delivered to the project site complete, with suspension accessories, aircraft cable, stems, canopies, hickeys, castings, sockets, holders,

ballasts, diffusers, frames, and related items, including support and braces. 2.02 LED Power Supplies / Drivers: A. Power Supplies and Drivers shall be of the types shown on the drawings. Drivers shall be CBM certified and bear the UL label. Drivers shall be the high power factor type and have a 10%

maximum total harmonic distortion. B. All Drivers for fixtures installed outdoors shall provide reliable operation at 0°F at 90% of the C. Drivers shall be Sound Rated A+ or will be rejected and shall be replaced at no expense to the

A. All LED sources shall be new at the time of acceptance; been fabricated within 12 months before installation per the date code on the module; and shall be CREE, General Electric,

B. Unless otherwise noted on the drawings, Light Engines shall have the highest available efficacy, 3500°K, and 85 CRI minimum. A. Ballasts shall be of the types shown on the drawings. Ballasts shall be CBM certified and bear

Osram /Sylvania, Phillips, or approved equal.

replaced at no expense to the Owner.1

suitable for lamps specified by Advance, Magnetek/Universal, Motorola or approved equal. Electronic ballast shall be CBM certified and have a 10% maximum total harmonic distortion. B. All ballasts for fixtures installed outdoors shall provide reliable starting of lamps at 0°F at 90% of the nominal line voltage.

C. Ballasts producing excessive noise (above 36 dB) or vibration will be rejected and shall be

the UL label. Magnetic ballasts shall be the high power factor type. Electronic ballasts shall be

A. Lamps shall be new at the time of acceptance and shall be General Electric, Osram /Sylvania, Phillips, or approved equal. B. Unless otherwise noted on the drawings, lamps shall be third generation T8, 3500°K, and 85 CRI minimum Third Generation: Also known as High-Performance, Higher Lumen, or Super, the third

supply/driver, light source and controls, ready for operation as indicated.

be allowed to sway a maximum of 45° without striking any object.

4. Fixture supports shall be designed to resist earthquake forces of seismic area.

6. Pendant cable mounted luminaries shall be provided with fully adjustable stainless steel

5. Refer to fixture mounting details on drawings for installation requirements.

Efficacy is high, with lumens per watt in the range of 94 to 100. CRI is 82 to 86.] PART 3 - EXECUTION

3.01 Installation:

A. General: 1. All fixtures and luminaires shall be clean and light engines shall be operable at the time of 2. Install luminaires in accordance with manufacturer's instructions, complete with power

generation of 32 Watt T8 lamps offers 3,100 lumens and a long-life rating of 24,000 hours

3. Align, mount, and level the luminaires uniformly. 4. Avoid interference with and provide clearance for equipment. Where an indicated position conflicts with equipment locations, change the location of the luminaire by the minimum distance necessary Mounting and Supports 1. Mounting heights shall be as shown on the Drawings. Unless otherwise shown, mounting

the bottom of the fixture for suspended fixtures and to the bottom of the fixture for all other 2. Luminaire supports shall be anchored to structural members. 3. Pendant stem mounted luminaires shall be provided with ball aligners to assure a plumb installation and shall have a minimum 45 degree clean swing from horizontal in all directions Sway bracing shall be installed as required to limit the movement of the fixture. Fixtures shall

height shall be measured to the centerline of the outlet box for wall mounted fixtures and to

aircraft cable hangers unless otherwise noted on the Drawings

PART 1 - PRODUCTS 1.01 Control Devices

A. See details on sheet E101.

PART 2 - EXECUTION 2. Install receptacles with connections spliced to the branch circuit wiring in such a way that

A. System Start Up and Commissioning 1. Manufacturer shall provide a factory authorized technician to confirm proper installation and operation of the lighting control sensors, controllers, switches, and occupancy sensors. 2. The technician shall provide training for the owner or their representative on the lighting

control features of the system 2.02 Optional Acceptance Testing Support Services:

A. A certified lighting controls acceptance test technician (CLCATT) must verify the installation of the lighting control system. Manufacturer should include an extra day of factory technician's time to assist the CLCATT review the functionality and settings of the lighting control hardware per the requirements in the California State forms. It will be the CLCATT's responsibility to create and complete any forms required for the commissioning process, although the manufacturer or contractor may offer spreadsheets and/or printouts to assist the CLCATT with

2.03 Lighting Control Installation Certificate Requirements: A. When certification is required by Title 24, Part 1, Section 10-103-A, the acceptance testing specified by Section 130.4 shall be performed by a Certified Lighting Controls Acceptance Test Technician (CLCATT) employed or hired by the electrical contractor. If the CLCATT is operating as an employee, the CLCATT shall be employed by a Certified Lighting Controls Acceptance Employer. The CLCATT shall disclose on the Certificate of Acceptance a valid CLCATT certification identification number issued by an approved Acceptance Test Technician Provider. The CLCATT shall complete all Certificate of Acceptance documentation in accordance with the

applicable requirements in Section 10-103(a)4. Lighting Control Installation Certificate Requirements. To be recognized for compliance with Part 6 an Installation Certificate shall be submitted in accordance with Section 10-103(a) for any lighting control system, Energy Management Control System, track lighting integral current limiter, track lighting supplementary overcurrent protection panel, interlocked lighting system, lighting Power Adjustment Factor, or additional wattage available for video conference studio, in accordance with the following requirements, as applicable:

1. Certification that when a lighting control system is installed to comply with lighting control requirements in Part 6 it complies with the applicable requirements of Section 110.9; and complies with Reference Nonresidential Appendix NA7.7.1 2. Certification that when an Energy Management Control System is installed to function as a lighting control required by Part 6 it functionally meets all applicable requirements for each application for which it is installed, in accordance with Sections 110.9, 130.0 through 130.5.

140.6 through 150.0, and 150.2; and complies with Reference Nonresidential Appendix 3. Certification that line-voltage track lighting current limiters comply with the applicable requirements of Section 110.9 and installed wattage has been determined in accordance with Section 130.0(c); and comply with Reference Nonresidential Appendix NA7.7.3.

4. Certification that line-voltage track lighting supplemental overcurrent protection panels

comply with the applicable requirements of Section 110.9 and installed wattage has been

determined in accordance with Section 130.(c); and comply with Reference Nonresidential

7. Certification that additional lighting wattage installed for a videoconference studio complies

with Section 140.6(c)Gvii; and complies with Reference Nonresidential Appendix NA 7.7.7

Appendix NA7.7.4. 5. Certification that interlocked lighting systems used to serve an approved area comply with Section 140.6(a)1; and comply with Reference Nonresidential Appendix NA7.7.5. 6. Certification that lighting controls installed to earn a lighting Power Adjustment Factor (PAF) comply with Section 140.6(a)2; and comply with Reference Nonresidential Appendix

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