

ECHO LAKE CAMP ACCESSIBILITY UPGRADES

7 Echo Lakes Rd, Echo Lake, CA 95721

CONSTRUCTION DRAWINGS - 02/03/2023

CITY OF BERKELEY

**NOLL
& TAM**
ARCHITECTS

729 Heinz Avenue
Berkeley, CA 94710
tel 510.542.2200
fax 510.542.2201

SEAL



Date signed: 02/07/2023

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CAMP
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N&T JOB # -

REVISIONS

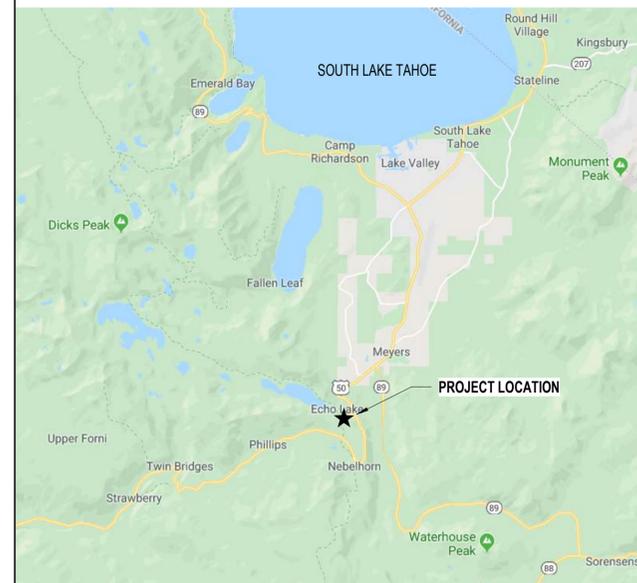
DATE	DESCRIPTION

SHEET TITLE
COVER SHEET

SHEET NUMBER

G0.00

LOCAL STREET MAP



PROJECT SUMMARY

THE PROJECT SCOPE INCLUDES A VOLUNTARY ACCESSIBILITY UPGRADE TO THE BERKELEY ECHO LAKE CAMPGROUND. THIS UPGRADE CONSISTS OF THE CONSTRUCTION OF AN ACCESSIBLE PATHWAY THAT CONNECTS VARIOUS ELEMENTS OF THE CAMPGROUND. THE SCOPE OF WORK WILL ALSO INCLUDE THE CONSTRUCTION OF A NEW ACCESSIBLE TENT CABIN. THE TENT CABIN WILL BE UNINSULATED.

CONTRACTOR WILL BE RESPONSIBLE FOR PREPPING ALL AREAS FOR NEW SCOPE OF WORK INCLUDING PATCHING AND REPAIRING EXISTING CONDITIONS WHERE AFFECTED BY ANY AND ALL DEMOLITION WORK.

THE WORK TO BE PERFORMED UNDER THIS CONTRACT INCLUDES THE FURNISHING OF ALL LABOR, MATERIALS, EQUIPMENT, TRANSPORTATION, SERVICES, PERMITS, TEMPORARY CONTROLS AND CONSTRUCTION FACILITIES, AND ALL GENERAL CONDITIONS, SEISMIC REQUIREMENTS, GENERAL REQUIREMENTS AND INCIDENTALS REQUIRED TO COMPLETE THE WORK ON THE PROJECT IN ITS ENTIRETY AS DESCRIBED IN THE CONTRACT DOCUMENTS.

ALTERNATES

NONE

CODE INFORMATION

PROJECT ADDRESS:
7 ECHO LAKES ROAD
ECHO LAKE, CA 95721

BUILDING TYPE:
TYPE V, NON-RATED

BUILDING OCCUPANCY:
TENT CABIN: GROUP C - ORGANIZED CAMPS

BUILDING AREA:
TENT CABIN: 180 SF (ENCLOSED), 147 SF (DECK)

BUILDING CODES:
2022 CALIFORNIA BUILDING CODE
2022 CALIFORNIA ELECTRICAL CODE
2022 CALIFORNIA MECHANICAL CODE
2022 CALIFORNIA PLUMBING CODE
2022 CALIFORNIA ENERGY CODE
2022 CALIFORNIA FIRE CODE
2022 CALIFORNIA GREEN BUILDING CODE

Cost Estimator

MicroEstimating, Inc.
1900 Powell Street Suite 470
San Francisco CA 94110
Tel: (415) 826-9626

Electrical

Atium Engineering, Inc.
3533 York Ln
San Ramon CA 94582
Tel: (913) 961-1658

Structural IDA Structural Engineers Inc.

1630 Telegraph Avenue
Suite 300
Oakland CA 94612-2114
Tel: (510) 834-1629

Landscape

Dillingham Associates
2927 Newbury St
Berkeley CA 94703
Tel: (510) 548-4700

Civil

R.O. Anderson
1603 Esmeralda Avenue
Minden NV 89423
Tel: (775) 782-2322

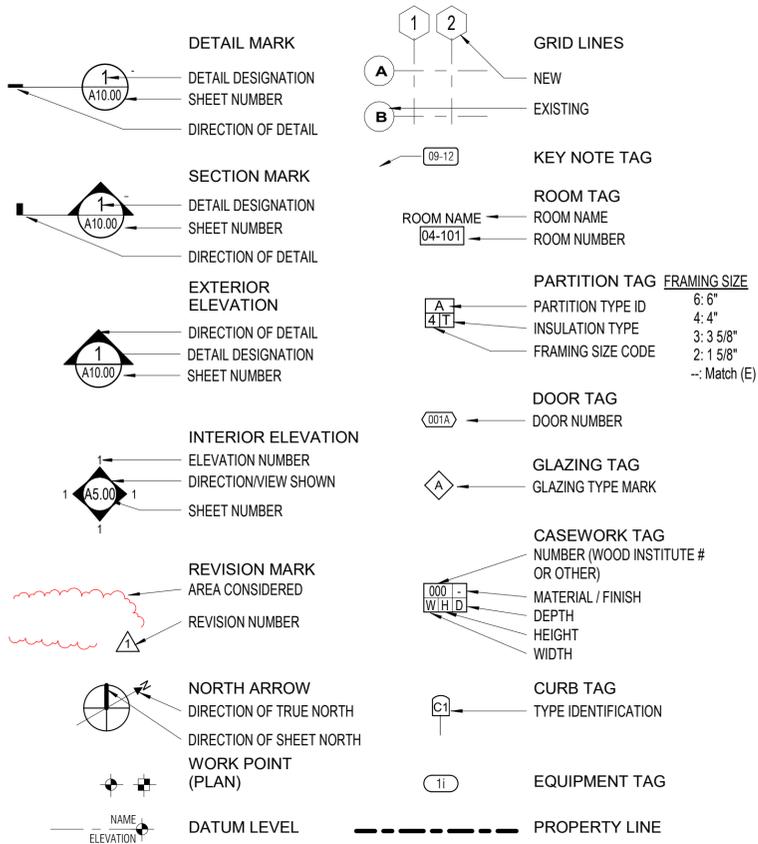
Architect

Noll & Tam Architects
729 Heinz Ave
Berkeley CA 94710
Tel: 510.542.2200
Fax: 510.542.2201

Client City of Berkeley Parks, Recreation & Waterfront

2180 Milvia St
Berkeley CA 94704
Tel: (510) 981-6437

SYMBOLS LEGEND



GENERAL NOTES

- ALL CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE PROJECT SPECIFICATIONS.
- ALL WORK SHALL MEET OR EXCEED THE MINIMUM STANDARDS OF THE 2016 CALIFORNIA BUILDING CODE AND ALL APPLICABLE CODES AND ORDINANCES.
- INFORMATION CONTAINED WITHIN THESE DOCUMENTS SHALL NOT BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE APPLICABLE CODES.
- CONTRACTOR SHALL EXAMINE THE DOCUMENTS AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES WHICH MAY BE FOUND PRIOR TO THE START OF WORK.
- CONTRACTOR SHALL REVIEW ALL DOCUMENTS TO COORDINATE W/ THE (E) BLDG CONDITIONS. ANY VARIATIONS AND DISCREPANCIES THAT ARISE IN THIS REVIEW ARE TO BE BROUGHT IMMEDIATELY TO THE ARCHITECT'S ATTENTION.
- THE CONTRACTOR AND ALL SUBCONTRACTORS ARE REQUIRED TO VISIT AND INSPECT THE SITE PRIOR TO CONSTRUCTION OR ORDERING ANY MATERIALS.
- ALL DETAILS, SCHEDULES, ADDENDA AND SPECIFICATIONS BOUND SEPARATELY ARE A PART OF THE CONTRACT DOCUMENTS.
- ITEMS MARKED "NIC" ARE NOT IN CONTRACT. SUCH ITEMS ARE INCLUDED IN THE DOCUMENTS WHEN CONTRACTOR'S COORDINATION IS REQUIRED OR FOR CLARIFICATION OF PROJECT LIMITS.
- DIMENSIONS:
 - IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM THE DRAWINGS.
 - OPENINGS: DOOR DIMENSIONS ARE TO THE FACE OF JAMB, UON. LOCATE UNDIMENSIONED DOORS 4" FROM FINISHED FACE OF INTERSECTING PARTITION TO HINGE EDGE EDGE OF DOOR. REFER TO DETAILS FOR LOCATION OF DIMENSIONS OF WINDOWS AND OTHER OPENINGS
 - ALL DIMENSIONS TO WALLS ARE TO THE FACE OF STUD, UON.
 - CEILING HEIGHT DIMENSIONS ARE FROM FINISHED FLOOR TO FINISHED FACE OF CEILING, UON.
 - ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD BY GENERAL CONTRACTOR AND ALL SUBCONTRACTORS PRIOR TO PROCEEDING WITH CONSTRUCTION.
 - COORDINATE WITH EQUIPMENT CONTRACTORS FOR ROUGH-IN DIMENSIONS AND TEMPLATES.
 - ALL DIMENSIONS NOTED "CLEAR" OR "CLR" MUST BE STRICTLY MAINTAINED. "CLEAR" MEANS DIMENSION FROM FACE OF FINISH TO FACE OF FINISH OR OBJECT.
 - ALL DIMENSIONS NOTED "VERIFY" OR "VIF" ARE TO BE CHECKED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY VARIANCE FROM THE REQUIRED DIMENSIONS MUST BE BROUGHT IMMEDIATELY TO THE ARCHITECT'S ATTENTION.
- DETAILS MARKED "TYPICAL" SHALL APPLY IN ALL CASES, UON.
- WHERE NO SPECIFIC DETAIL IS SHOWN, THE FRAMING OR CONSTRUCTION SHALL BE IDENTICAL OR SIMILAR TO THAT INDICATED FOR LIKE CASES OF CONSTRUCTION ON THE PROJECT.
- EXISTING CONDITIONS TO REMAIN, UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL MEET W/ THE ARCHITECT PRIOR TO THE START OF DEMOLITION TO NOTE WHAT ITEMS, IF ANY, ARE TO BE SALVAGED OR REUSED. REFER TO DIVISION 1 OF THE PROJECT SPECIFICATIONS.
- THE DRAWINGS INDICATE THE GENERAL EXTENT OF (N) CONSTRUCTION NECESSARY FOR THE WORK, BUT ARE NOT INTENDED TO BE ALL-INCLUSIVE. ALL DEMO AND (N) WORK NECESSARY FOR A FINISHED JOB, IN ACCORDANCE W/ THE INTENTIONS OF THE CONTRACT DOCUMENTS, IS INCLUDED REGARDLESS OF WHETHER SHOWN IN THE CONTRACT DOCUMENTS.
- (E) BUILDING AND SITE DOCUMENTATION IS BASED ON "AS-BUILT" DRAWINGS AND OBSERVATIONAL SITE INVESTIGATIONS. ACTUAL BUILT CONDITIONS MAY VARY. CONTRACTOR IS TO USE CAUTION IN DEMOLITION, AND IS TO NOTIFY ARCHITECT IMMEDIATELY IF ANY VARIATIONS OR DISCREPANCIES ARE UNCOVERED.
- PROTECT ALL (E) BUILDING AND SITE CONDITIONS TO REMAIN.

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TOTAL SHEETS: : 25

ABBREVIATIONS

&	AND	CFMF	COLD FORMED METAL FRAMING	DWR	DRAWER	FSP	FIBERGLASS SANDWICH PANEL	JAN	JANITOR	OFD	OVERFLOW DRAIN	SASF	SELF ADHERING SHEET FLASHING	SYS	SYSTEM
(E)	EXISTING	CI	CAST IRON	E	EAST	FT	FOOT/FEET	JBOX	JUNCTION BOX	OFF	OFFICE	SASM	SELF ADHERING SHEET MEMBRANE	T	TREAD
(N)	NEW	CJ	CONTROL JOINT	EA	EACH	FTG	FOOTING	JST	JOIST	OP	OPERABLE	SC	SOLID CORE	T&G	TONGUE & GROOVE
@	AT	CLG	CEILING	EJ	EXPANSION JOINT	FURN	FURNITURE	JT	JOINT	OPNG	OPENING	SCD	SEE CIVIL DRAWINGS	TBD	TO BE DETERMINED
AB	ANCHOR BOLT	CLKG	CAULKING	ELEC	ELECTRICAL	FX	FIXED	LAM	LAMINATE	OPP	OPPOSITE	SCHED	SCHEDULE	TEL	TELEPHONE
AC	ASPHALTIC CONCRETE	CLO	CLOSET	ELEV	ELEVATION/ELEVATOR	GA	GAUGE	LAV	LAVATORY	OPD	OPPOSITE HAND	SE	STRUCTURAL ENGINEER	TEMP	TEMPERED
ACC	ACCESS	CLR	CLEAR	ENLG	ENLARGED	GALV	GALVANIZED	LB	LAG BOLT	PA	PUBLIC ADDRESS	SED	SEE ELECTRICAL DRAWINGS	THK	THICK/THICKNESS
ACOU	ACOUSTICAL	CMU	CONCRETE MASONRY UNIT	EOS	EDGE OF SLAB	GB	GRAB BAR	LF	LINEAR FEET	PARTN	PARTITION	SFRM	SPRAY-APPLIED FIRE RESISTIVE MATERIAL	THRES	THRESHOLD
S		CNTR	COUNTER	EP	ELECTRICAL PANEL	GC	GENERAL CONTRACTOR	LKR	LOCKER	PCP	PORTLAND CEMENT PLASTER	SH	SINGLE HUNG	H	
ACT	ACOUSTIC CEILING TILE	CO	CLEAN OUT	EQ	EQUAL	GFI	GROUND FAULT INTERRUPT	LT	LIGHT	PL	PLATE	SHT	SHEET	TJI	TRUSS JOIST
AD	AREA DRAIN	COL	COLUMN	EQUIP	EQUIPMENT	GI	GALVANIZED IRON	MAS	MASONRY	PLM	PLASTIC LAMINATE	SHTG	SHEATHING	TO	TOP OF
ADDL	ADDITIONAL	CONC	CONCRETE	EWC	ELECTRIC WATER COOLER	GL	GLASS/GLAZING	MATL	MATERIAL	PLAS	PLASTIC	SIM	SIMILAR	TOC	TOP OF CONCRETE/CURB
ADJ	ADJACENT/ADJUSTABLE	CONN	CONNECTION	EXH	EXHAUST	GLAM	GLUE LAMINATED	MAX	MAXIMUM	PLY	PLYWOOD	SMD	SEE MECHANICAL DRAWINGS	TOP	TOP OF PAVING
AESS	ARCHITECTURAL EXPOSED STRUCTURAL STEEL	CONT	CONTINUOUS	EXP	EXPANSION	GR	GRADE	MB	MACHINE BOLT	PR	PAIR	SOG	SLAB ON GRADE	TOS	TOP OF STEEL
AFF	ABOVE FINISHED FLOOR	CONT	CONTRACTOR	EXT	EXTERIOR	GSM	GALVANIZED SHEET METAL	MECH	MECHANICAL	PROJ	PROJECT/PROJECTOR	SP	SPACE	TOW	TOP OF WALL
AGG	AGGREGATE	R		FA	FIRE ALARM	GWB	GYPSPUM WALL BOARD	MFR	MANUFACTURER	PT	POINT/PRESSURE TREATED	SPA	SANDWICH PANEL ASSEMBLY	TS	TUBE STEEL
ALT	ALTERNATE	CORR	CORRIDOR	FD	FLOOR DRAIN	GYP	GYPSPUM	MH	MANHOLE	PTD	PAINTED	SPD	SEE PLUMBING DRAWINGS	TYP	TYPICAL
ALUM	ALUMINUM	CPT	CARPET	FDN	FOUNDATION	H	HIGH	MIN	MINIMUM	PVC	POLYVINYLCHLORIDE	SPEC	SPECIFICATION	UON	UNLESS OTHERWISE NOTED
ANOD	ANODIZED	CSMT	CASEMENT	FE	FIRE EXTINGUISHER	HC	HOLLOW CORE	MISC	MISCELLANEOUS	REG	REGISTER	SQ	SQUARE	UR	URINAL
APPRO	APPROXIMATE	CTR	CENTER	FEC	FIRE EXTINGUISHER CABINET	HD	HEAD	MTD	MOUNTED	REIN	REINFORCE/REINFORCING	SS	STAINLESS STEEL	VCT	VINYL COMPOSITION TILE
X		CTS	COUNTERSINK	FHC	FIRE HOSE CABINET	HDR	HEADER	MTL	METAL	REQD	REQUIRED	SSD	SEE STRUCTURAL DRAWINGS	VENT	VENTILATION
AV	AUDIO VISUAL	D	DEPTH	FIN	FINISH	HDW	HARDWARE	MUL	MULLION	REQT	REQUIREMENTS	SSGD	SEE SIGNAGE DRAWINGS	VERT	VERTICAL
BD	BOARD	DBL	DOUBLE	FIN	FINISH FLOOR	HDWD	HARDWOOD	N	NORTH	RES	RESILIENT	SSK	SERVICE SINK	VEST	VESTIBULE
BDG	BUILDING	DEMO	DEMOLITION	FLR	FLOOR	HM	HOLLOW METAL	NA	NOT APPLICABLE	REF	REFERENCE	STD	STANDARD	VIF	VERIFY IN FIELD
BLK	BLOCK	DEPT	DEPARTMENT	FLR	FLOOR	HORIZ	HORIZONTAL	NIC	NOT IN CONTRACT	REFR	REFRIGERATOR	SQ	SQUARE	W	WEST/WIDTH
BLKG	BLOCKING	DF	DOUGLAS FIR/DRINKING FOUNTAIN	FLRG	FLOORING	HR	HOUR	NO	NUMBER	REG	REGISTER	SS	STAINLESS STEEL	W/	WITH
BM	BEAM	DH	DOUBLE HUNG	FLUOR	FLUORESCENT	HT	HEIGHT	NOM	NOMINAL	REIN	REINFORCE/REINFORCING	SSD	SEE STRUCTURAL DRAWINGS	W/O	WITHOUT
BO	BOTTOM OF	DIA	DIAMETER	FOC	FACE OF CONCRETE	HT	HEIGHT	NTS	NOT TO SCALE	REQD	REQUIRED	SSGD	SEE SIGNAGE DRAWINGS	WC	WATER CLOSET
BOT	BOTTOM	DIA	DIAMETER	FOF	FACE OF FINISH	HVAC	HEATING VENTILATION & AIR CONDITIONING	OA	OVERALL	REQT	REQUIREMENTS	SSK	SERVICE SINK	WD	WOOD
BUR	BUILT UP ROOF	DISP	DISPOSAL	FOS	FACE OF STUD	ID	INSIDE DIAMETER	OC	ON CENTER	RES	RESILIENT	SSK	SERVICE SINK	WH	WATER HEATER
CAB	CABINET	DN	DOWN	FR	FIRE RESISTANT/FIRE RETARDANT	IF	INSIDE FACE	OCC	OCCUPANT	REV	REVISION	STD	STANDARD	WIN	WINDOW
CB	CARRIAGE BOLT	DR	DOOR	FR	FIRE RESISTANT/FIRE RETARDANT	INC	INCANDESCENT	OD	OUTSIDE DIAMETER/OVERFLOW DRAIN	RM	ROOM	STED	SEE TELECOM DRAWINGS	WO	WHERE OCCURS
CE	CIVIL ENGINEER	DS	DOWNSPOUT	FRP	FIBERGLASS REINFORCED PANEL	INCL	INCLUDE/INCLUDING	OF	OUTSIDE FACE	RO	ROUGH OPENING	STL	STEEL	WP	WORK POINT
CEM	CEMENT/CEMENTITIOUS	DTL	DETAIL	INSUL	INSULATION	INT	INTERIOR	OF	OUTSIDE FACE	RWL	RAIN WATER LEADER	STOR	STORAGE	WR	WATER RESISTANT
CER	CERAMIC	DWG	DRAWING	INT	INTERIOR			OF	OUTSIDE FACE	S	SOUTH	STRUC	STRUCTURAL	WT	WEIGHT

NOLL & TAM ARCHITECTS

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Berkeley, CA 94710
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GENERAL NOTES / SHEET INDEX

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Building and Safety Permit Service Center

Projects for new buildings, additions of 1,000 square feet or greater and/or building alterations with a permit valuation of \$200,000 or above are subject to the provisions of the California Green Building Standards Code. This checklist is provided by the City of Berkeley in order to demonstrate compliance with the code and facilitate permit approval.

Instructions:

- 1. Read and understand the requirements of all mandatory measures listed in this checklist.
2. Mark all mandatory measures that are applicable to the proposed project.
3. Coordinate the construction drawings with the mandatory measures.
4. Incorporate this checklist into the submitted set of construction drawings on full sized sheets.

Building and Safety 1947 Center St., 3rd floor Berkeley, CA 94704 510-981-7440 TTY 6903 buildingandsafety@cityofberkeley.info

Code Compliance Checklist - CALGREEN NON-RESIDENTIAL

Project Information

Project Address: 7 Echo Lakes Rd, Echo Lake, CA 95721

Permit Number: [] New Building [X] Addition [A] [] Alteration

Planning and Design

Storm Water

- Storm water pollution prevention. Projects which disturb less than one acre of land shall prevent the pollution of stormwater runoff from the construction activities through one or more of the following measures:
Stormwater management. Comply with the Stormwater management and erosion control requirements per Title 17 of the City of Berkeley Municipal Code.
Best management practices (BMP). Prevent the loss of soil through wind or water erosion by implementing an effective combination of erosion and sediment control and good housekeeping BMP.
Grading and paving. Indicate how site grading or drainage system will manage all surface water flows to keep water from entering buildings.

Bicycle Parking

- Bicycle Parking. Projects adding 10 or more vehicular parking spaces shall comply with the following or meet the applicable City of Berkeley ordinance, whichever is stricter.
Short-term bicycle parking. Provide permanently anchored bicycle racks within 200 feet of the visitor's entrance, readily visible to passers-by, for 5-percent of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack.
Long-term bicycle parking. Provide secure bicycle parking for 5-percent of the tenant vehicular parking spaces being added, with a minimum of one space.

Vehicle Parking

- Designated parking. In projects that add 10 or more vehicular parking spaces, provide designated parking for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles per CALGreen Table 5.106.5.2. Provide parking stall markings as required per CALGreen Section 5.106.5.2.1.

Electric Vehicle Charging

Definitions

ELECTRIC VEHICLE (EV) CHARGER. Off-board charging equipment used to charge an electric vehicle.
ELECTRIC VEHICLE CHARGING SPACE (EV SPACE). A space intended for future installation of EV charging equipment and charging of electric vehicles.

ELECTRIC VEHICLE CHARGING SPACE (EV SPACE) RACEWAY EQUIPPED. An EV Space that includes a raceway between any enclosed, inaccessible or concealed areas and the electrical service panel or subpanel. No additional electrical panel capacity is required at the time of construction.

ELECTRIC VEHICLE CHARGING STATION (EVCS). One or more electric vehicle charging spaces served by electric vehicle charger(s) or other

equipment allowing charging of electric vehicles. Electric vehicle charging stations are not considered parking spaces.
ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE). The conductors, including the ungrounded, grounded, and equipment grounding conductors and the electric vehicle connectors, attachment plugs, and all other fittings, devices, power outlets, or apparatus installed specifically for the purpose of transferring energy between the premises wiring and the electric vehicle.

Identification. The service panel or subpanel circuit directory shall identify the overcurrent protective device for future EV charging as "EV CAPABLE" and identify the overcurrent protective devices serving EVCS as "EV CHARGER". Raceway termination locations shall be permanently and visibly marked as "EV CAPABLE".

Raceways. Listed raceways and associated conductors shall be sized to accommodate a dedicated 208/240-volt branch circuit for a future EV charger. The raceway shall not be less than nominal 1-inch inside diameter. Raceways shall originate at the main service or subpanel and shall terminate into a listed cabinet, box or other enclosure in close proximity to the proposed location of an EV charger. Construction documents shall identify the raceway termination point.

Electric Vehicle Charging Stations

- Single EVCS. The service panel and/or subpanel shall be provided with a 40 ampere minimum dedicated branch circuit and overcurrent protective device to serve EVSE.
Multiple EVCS. Construction documents shall provide information on ampereage of dedicated branch circuits, EVSE, raceway method(s), wiring schematics and electrical load calculations to verify that the electrical panel service capacity and electrical system, including any on-site distribution transformer(s), have sufficient capacity to simultaneously charge all EVs at the full rated ampereage of the EVSE.
Accessibility. Minimum number. Where EVCS are required, EVCS complying with CBC Section 11B-228.3.1 and 11B-812 shall be provided in accordance with CBC Table 11B-228.3.2.1.
Multiple EVCS. Construction documents shall provide information on ampereage of dedicated branch circuits, EVSE, raceway method(s), wiring schematics and electrical load calculations to verify that the electrical panel service capacity and electrical system, including any on-site distribution transformer(s), have sufficient capacity to simultaneously charge all EVs at the full rated ampereage of the EVSE.

EV Spaces

- EV charging space calculation. When 10 or more parking spaces are constructed:
10 percent of the total number of parking spaces shall be EVCS and equipped with EV chargers.
40 percent of the total number of parking spaces shall be EV Spaces Raceway Equipped capable of supporting future EVSE.

Light Pollution

- Light pollution reduction. Outdoor lighting systems shall be designed and installed to comply with Backlight, Uplight and Glare rating requirements in CALGreen Table 5.106.8 or comply with the City of Berkeley's ordinances, whichever is more stringent.

Water Efficiency and Conservation

Indoor Water Use: Metering Devices

- New buildings or additions in excess of 50,000 square feet. Separate sub-meters shall be installed as follows:
For each individual leased, rented, or other tenant space within the building projected to consume more than 100 gal/day, including, but not limited to, spaces used for laundry or cleaners, restaurant or food service, medical or dental office, laboratory, or beauty salon or barber shop.
Where separate sub-meters 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.
b. Makeup water for evaporative coolers greater than 6 gpm.
c. Steam and hot-water boilers with energy input more than 500,000 Btu/h.

- Excess consumption. A separate sub-meter 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.

Indoor Water Use: Water Conservation

- Water closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush.
Urinals. Wall-mounted urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush.
Floor-mounted urinals. The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush.
Showerheads. Single showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi.
Multiple showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi.

Faucets and Fountains

- Nonresidential lavatory faucets. Lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi.
Kitchen faucets. Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute at 60 psi.
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.
Metering faucets. Metering faucets shall not deliver more than 0.20 gallons per cycle.

Commercial Kitchen Equipment

- Food waste disposers. Disposers shall either modulate the use of water to no more than 1 gpm when the disposer is not in use or shall automatically shut off after no more than 10 minutes of inactivity.

Outdoor Water Use

- 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.
Material Conservation and Resource Efficiency. Low-carbon concrete. Reduction in cement use. As allowed by the enforcing agency, cement used in concrete mix design shall be reduced not less than 25 percent.

Water Resistance and Moisture Management

- Sprinklers. Design and maintain landscape irrigation systems to prevent spray on structures.
Exterior door protection. Primary exterior entries shall be covered to prevent water intrusion by using non-absorbent floor and wall finishes within at least 2 feet around and perpendicular to such openings plus at least one of the following:
a. An installed awning at least 4 feet in depth.

Indoor Water Use: Water Conservation

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Water Resistance and Moisture Management

- Sprinklers. Design and maintain landscape irrigation systems to prevent spray on structures.
Exterior door protection. Primary exterior entries shall be covered to prevent water intrusion by using non-absorbent floor and wall finishes within at least 2 feet around and perpendicular to such openings plus at least one of the following:
a. An installed awning at least 4 feet in depth.

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

Construction Waste Reduction, Disposal and Recycling

- Construction waste management plan & excavated soil and land clearing debris. Recycle and/or salvage for reuse a minimum of 65 percent of the nonhazardous construction and demolition waste and a minimum of 100 percent of excavated soil, land-clearing debris, concrete and asphalt.
Universal waste. Additions and alterations to a building or tenant space shall require verification that Universal Waste items 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.

Building Maintenance and Operation

- 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.
Additions. All additions conducted within a 12-month period under single or multiple permits, resulting in an increase of 30 percent or more in floor area, shall provide recycling areas on site.
Commissioning. For newly constructed 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.

Owner's or Owner Representative's Project Requirements (OPR)

- Environmental and sustainability goals.
Energy efficiency goals.
Indoor environmental quality requirements.
Project program, including facility functions and hours of operation, and need for after hours operation.
Equipment and systems expectations.
Building occupant and operation and maintenance (O&M) personnel expectations.

Basis of Design (BOD)

- Heating, ventilation, air conditioning systems and controls.
Indoor lighting system and controls.
Water heating system.
Renewable energy systems.
Landscape irrigation systems.
Water reuse systems.

Commissioning plan

- General project information.
Commissioning goals.
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 performed.
e. Measurable criteria for acceptable performance.



729 Heinz Avenue Berkeley, CA 94710 tel 510.542.2200 fax 510.542.2201



Date signed: 02/07/2023

CITY OF BERKELEY ECHO LAKE CAMP ACCESSIBILITY UPGRADES

7 Echo Lakes Rd, Echo Lake, CA 95721

CONSTRUCTION DRAWINGS

Table with columns: ISSUE DATE (02/03/2023), N&T JOB #, REVISIONS (DATE, DESCRIPTION)

SHEET TITLE CALGREEN

SHEET NUMBER G1.11

- Commissioning team information.
Commissioning process activities, schedules and responsibilities. Plans for the completion of commissioning shall be included.

Functional performance testing. 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.

Documentation and training. 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.

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

- Testing and adjusting. Testing and adjusting of systems shall be required for newly constructed buildings less than 10,000 square feet, or new systems to serve an addition or alteration, as applicable.
HVAC systems and controls.
Indoor and outdoor lighting and controls.
Water heating systems.
Renewable energy systems.
Landscape irrigation systems.
Water reuse systems.

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

HVAC balancing. In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, balance the system 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 City of Berkeley.

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

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

Environmental Quality

Fireplaces

- 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 Section 150.

Woodstoves. Woodstove and pellet stoves shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits.

Pollutant Control: Mechanical Systems

Temporary ventilation. The permanent HVAC system shall only be used during construction if necessary to condition the building within the required temperature range for material and equipment installation.

Covering of duct openings & 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 ventilating equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheetmetal or other methods acceptable to the City of Berkeley to reduce the amount of dust, water and debris

which may enter the system.

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.

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 the City of Berkeley.

Pollutant Control: Finish Material
Adhesives, sealants and caulks. Adhesives, sealants and caulks used on the project shall comply with CALGreen Table 5.504.4.1 and 5.504.4.2 for VOC limits.

Paints and Coatings. Architectural paints and coatings shall comply with VOC limits in CALGreen Table 5.504.4.3. 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 CALGreen Table 5.504.4.3 shall apply.

Aerosol paints and coatings. Aerosol paints and coatings shall meet the PWMIR Limits for ROC in California Code of Regulations, Title 17 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.

Carpets

Carpet systems. All carpet installed in the building interior shall meet at least one of the following testing and product requirements:
Carpet and Rug Institute's Green Label Plus Program;
Compliant with the VOC-emission limits and requirements specified in the California Department of Public Health Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version 1.1, February 2010 (also known as CDPH Standard Method V1.1 or Specification 01350);
NSF/ANSI 140 at the Gold level or higher;
Scientific Certifications Systems Sustainable Choice; or
Compliant with the California Collaborative for High Performance Schools (CA-CHPS) Criteria Interpretation for EQ 7.0 and EQ 7.1 dated July 2012 and listed in the CHPS High Performance Product Database.

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

Carpet adhesive. All carpet adhesive shall meet the requirements of CALGreen Table 5.504.4.1.

Composite Wood Products

Composite wood products. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the building shall meet the requirements for formaldehyde as shown in CALGreen Table 5.504.4.5.

Environmental Control

Acoustical comfort. Employ building assemblies and components with Sound Transmission Class (STC) values determined in accordance with ASTM E90 and ASTM E413 or Outdoor-Indoor Sound Transmission Class (OITC) determined in accordance with ASTM E 1332, using either the prescriptive or performance method in CGBCS Section 5.507.4.1 or 5.507.4.2.

Outdoor Air Quality

Ozone depletion and greenhouse gas reductions. Installations of HVAC, refrigeration and fire suppression equipment shall comply with the following:
Chlorofluorocarbons (CFCs). Install HVAC, re-ignition & fire suppression equipment that do not contain CFCs.
Halons. Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.
Supermarket refrigerant leak reduction. New commercial refrigeration systems containing high-global-warming potential refrigerants (GWP of 150 or greater) installed in retail food stores with 8,000 square feet or more of conditioned area, and that utilize either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units shall comply with refrigerant leak reduction measures.

Additional:

I certify that I have read and acknowledged all of the Code Requirements noted above. I accept full responsibility for complying with all of the above requirements, as applicable to my project. I further agree that if I fail to comply with the code requirements, due to error or omission, I will correct all deficiencies prior to final inspection.

Janet Tam Name Signature Date 2/15/2023
Check One: Contractor Owner Owner's Agent

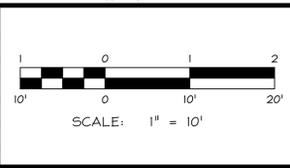
Blank signature and date fields.

Note: This form includes the City of Berkeley's amendments to the 2019 California Green Building Standards Code.



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NO.	DATE	REVISION BLOCK	BY
1	02/08/23	SEWER LATERAL CHANGE	ROA



R/O Anderson
WWW.ROANDERSON.COM

MINDEN 1603 Emerald Ave P.O. Box 2224 Minden, NV 89423 P 775-782-2322 F 775-782-7084

RENO 4060 Double Diamond Reno, NV 89521 P 775-782-2322 F 775-782-7084

BERKELEY ECHO LAKE CAMP
 CITY OF BERKELEY

UTILITY PLAN

DRAWN:	MCR	JOB:	2836-001
ENGINEER:	ROA	DRAWING:	2836-001_C1.02
SCALE:	1" = 10'	SHEET:	C1.02
DATE:	02.13.2023	OF:	SHEETS



SEAL



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CITY OF BERKELEY BERKELEY ECHO LAKE CAMP

7 Echo Lakes Rd, Echo Lake,
CA 95721

CONSTRUCTION DRAWINGS

ISSUE DATE 02/09/2023

N&T JOB #

REVISIONS

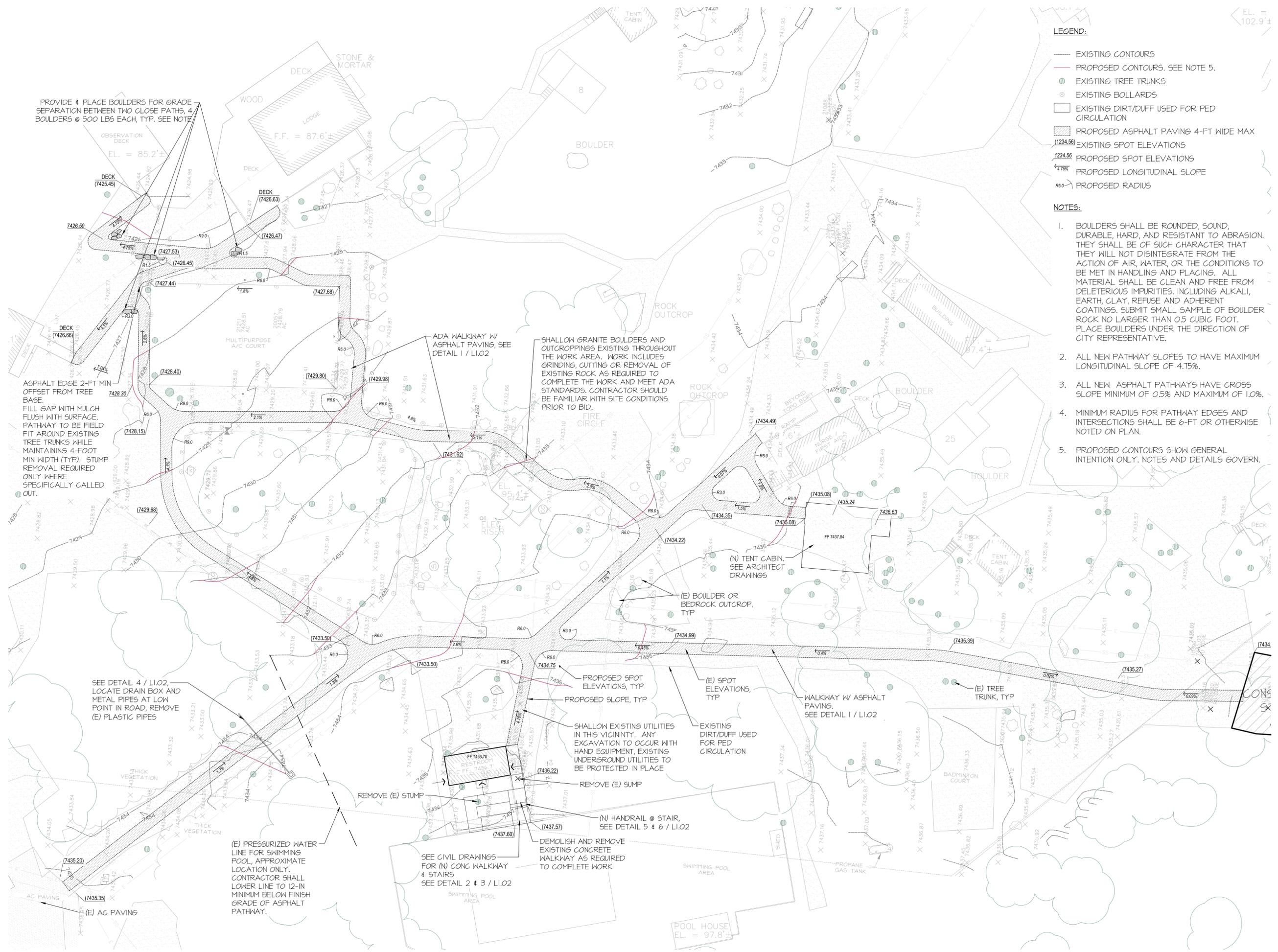
DATE	DESCRIPTION

SHEET TITLE

SITE PLAN

SHEET NUMBER

L1.01



- LEGEND:**
- EXISTING CONTOURS
 - PROPOSED CONTOURS. SEE NOTE 5.
 - EXISTING TREE TRUNKS
 - EXISTING BOLLARDS
 - EXISTING DIRT/DUFF USED FOR PED CIRCULATION
 - ▨ PROPOSED ASPHALT PAVING 4-FT WIDE MAX
 - (1234.56) EXISTING SPOT ELEVATIONS
 - (1234.56) PROPOSED SPOT ELEVATIONS
 - 4.75% PROPOSED LONGITUDINAL SLOPE
 - R6.0 PROPOSED RADIUS
- NOTES:**
1. BOULDERS SHALL BE ROUNDED, SOUND, DURABLE, HARD, AND RESISTANT TO ABRASION. THEY SHALL BE OF SUCH CHARACTER THAT THEY WILL NOT DISINTEGRATE FROM THE ACTION OF AIR, WATER, OR THE CONDITIONS TO BE MET IN HANDLING AND PLACING. ALL MATERIAL SHALL BE CLEAN AND FREE FROM DELETERIOUS IMPURITIES, INCLUDING ALKALI, EARTH, SLAY, REFUSE AND ADHERENT COATINGS. SUBMIT SMALL SAMPLE OF BOULDER ROCK NO LARGER THAN 0.5 CUBIC FOOT. PLACE BOULDERS UNDER THE DIRECTION OF CITY REPRESENTATIVE.
 2. ALL NEW PATHWAY SLOPES TO HAVE MAXIMUM LONGITUDINAL SLOPE OF 4.75%.
 3. ALL NEW ASPHALT PATHWAYS HAVE GROSS SLOPE MINIMUM OF 0.5% AND MAXIMUM OF 1.0%.
 4. MINIMUM RADIUS FOR PATHWAY EDGES AND INTERSECTIONS SHALL BE 6-FT OR OTHERWISE NOTED ON PLAN.
 5. PROPOSED CONTOURS SHOW GENERAL INTENTION ONLY. NOTES AND DETAILS GOVERN.

PROVIDE 4 PLACE BOULDERS FOR GRADE SEPARATION BETWEEN TWO CLOSE PATHS, 4 BOULDERS @ 500 LBS EACH, TYP. SEE NOTE

EL. = 85.2'±

STONE & MORTAR
DECK
WOOD
LODGE
F.F. = 87.6'±

BOULDER

ADA WALKWAY W/ ASPHALT PAVING, SEE DETAIL 1 / LI.02

SHALLOW GRANITE BOULDERS AND OUTCROPPINGS EXISTING THROUGHOUT THE WORK AREA. WORK INCLUDES GRINDING, CUTTING OR REMOVAL OF EXISTING ROCK AS REQUIRED TO COMPLETE THE WORK AND MEET ADA STANDARDS. CONTRACTOR SHOULD BE FAMILIAR WITH SITE CONDITIONS PRIOR TO BID.

ASPHALT EDGE 2-FT MIN OFFSET FROM TREE BASE. FILL GAP WITH MULCH FLUSH WITH SURFACE. PATHWAY TO BE FIELD FIT AROUND EXISTING TREE TRUNKS WHILE MAINTAINING 4-FOOT MIN WIDTH (TYP). STUMP REMOVAL REQUIRED ONLY WHERE SPECIFICALLY CALLED OUT.

SEE DETAIL 4 / LI.02 LOCATE DRAIN BOX AND METAL PIPES AT LOW POINT IN ROAD, REMOVE (E) PLASTIC PIPES

(E) PRESSURIZED WATER LINE FOR SWIMMING POOL, APPROXIMATE LOCATION ONLY. CONTRACTOR SHALL LOWER LINE TO 12-IN MINIMUM BELOW FINISH GRADE OF ASPHALT PATHWAY.

SEE CIVIL DRAWINGS FOR (N) CONC WALKWAY & STAIRS SEE DETAIL 2 & 3 / LI.02

SHALLOW EXISTING UTILITIES IN THIS VICINITY. ANY EXCAVATION TO OCCUR WITH HAND EQUIPMENT, EXISTING UNDERGROUND UTILITIES TO BE PROTECTED IN PLACE

(E) SPOT ELEVATIONS, TYP

WALKWAY W/ ASPHALT PAVING. SEE DETAIL 1 / LI.02

(E) TREE TRUNK, TYP

REMOVE (E) STUMP

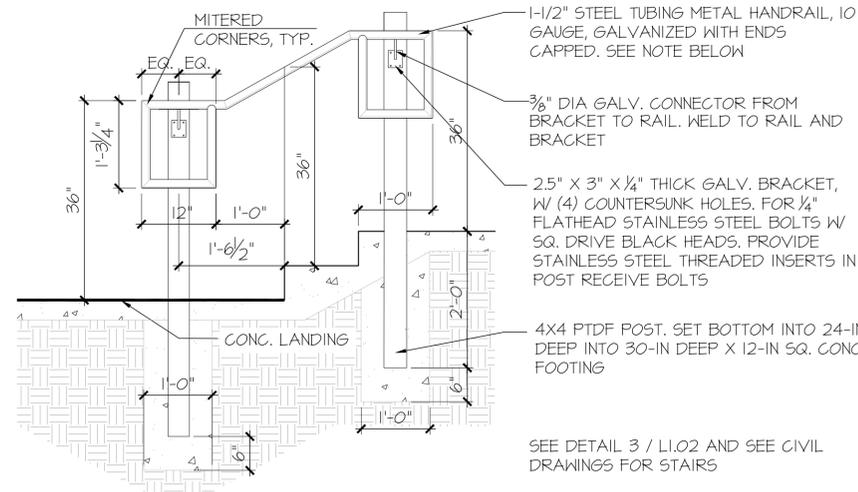
REMOVE (E) SUMP

(N) HANDRAIL @ STAIR, SEE DETAIL 5 & 6 / LI.02

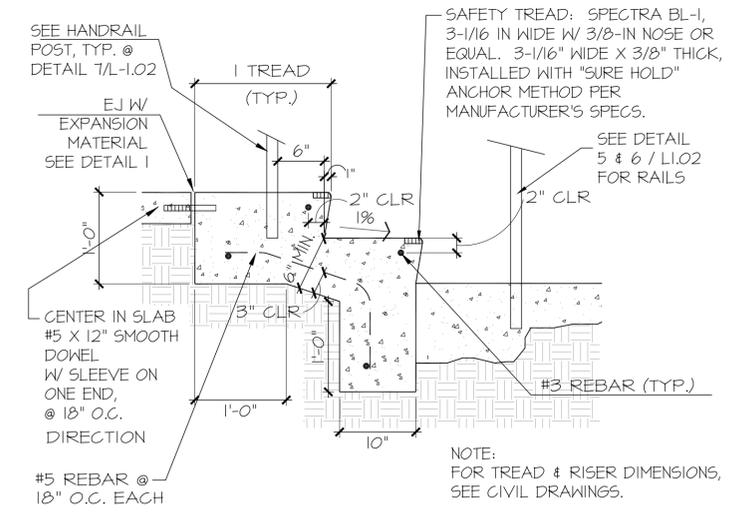
DEMOLISH AND REMOVE EXISTING CONCRETE WALKWAY AS REQUIRED TO COMPLETE WORK

POOL HOUSE
EL. = 97.8'±

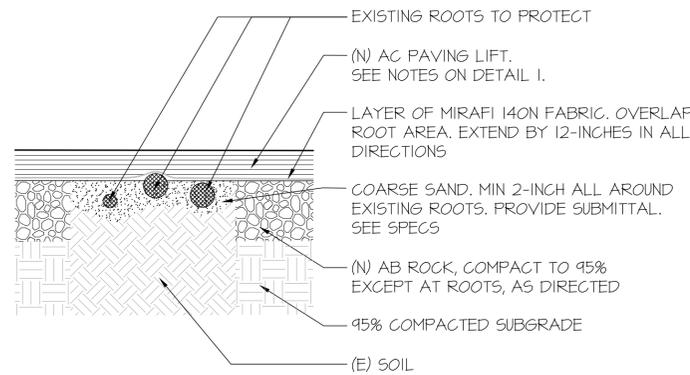
NOTE: THE HANDRAIL AND BRACKETS SHALL BE POWDER COATED. COLOR TO BE DETERMINED. ALL WELDS TO BE CONTINUOUS & GROUND SMOOTH



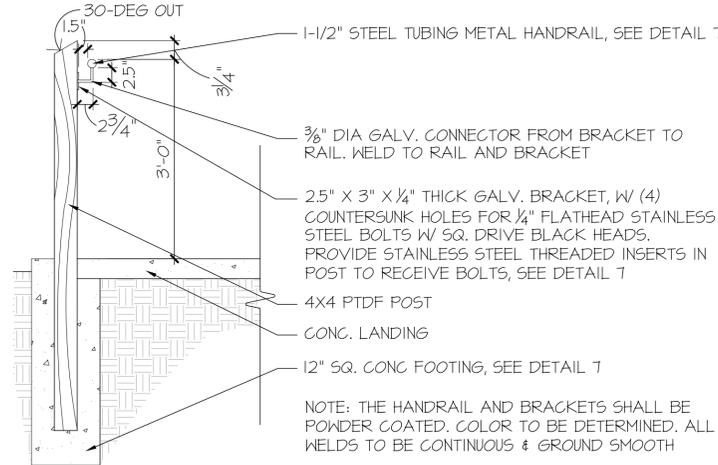
6 HANDRAIL @ STAIR
SCALE: 3/4" = 1'-0"



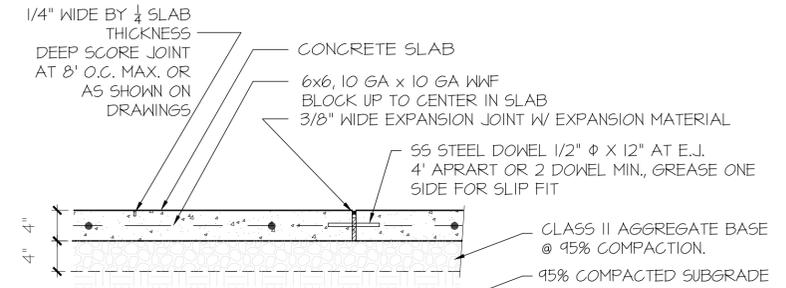
3 CONG STAIR @ POOL SEE ALSO CIVIL DRAWINGS
SCALE: NTS



5 TREATMENT FOR EXISTING ROOTS
SCALE: 1" = 1'-0"

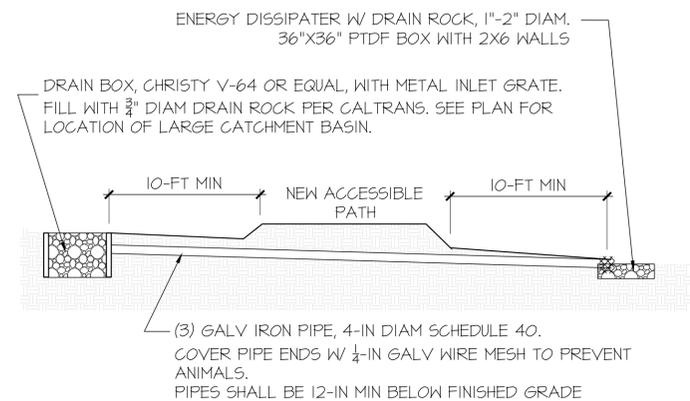


5 HANDRAIL @ STAIR CROSS SECTION
SCALE: 3/4" = 1'-0"

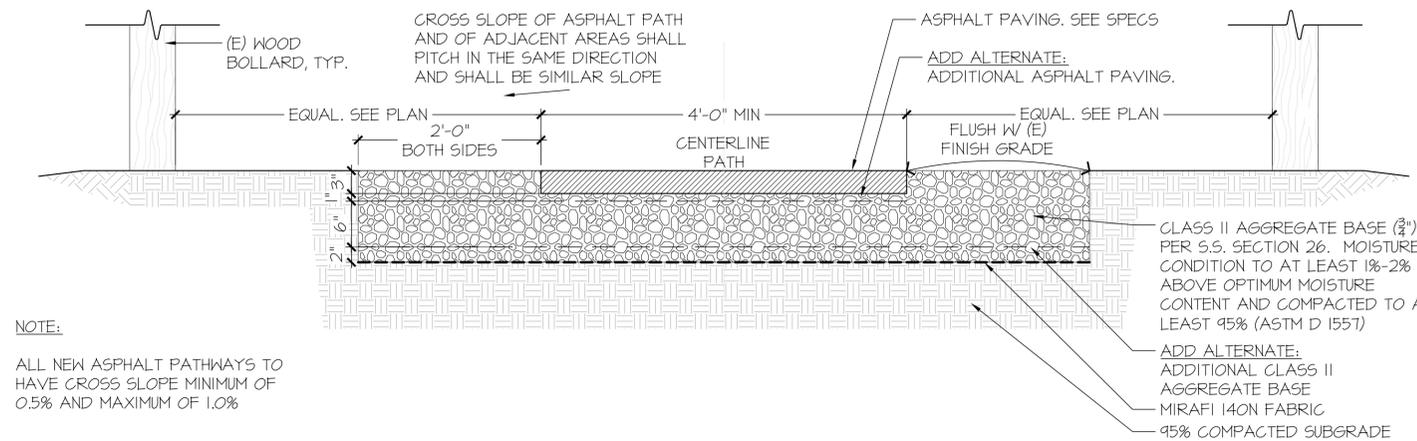


NOTE: 1. SEE SPEC FOR COLOR & FINISH.
2. INSTALL ALL EXPANSION JOINTS WHERE SHOWN ON PLANS OR WHERE CONCRETE PAVING MEETS VERTICAL CURB OR WALL AND IS BOUND ON THE OTHER SIDE OF PAVING BY ANOTHER CURB OR OTHER RIGID STRUCTURE.

2 CONCRETE PAVEMENT SEE ALSO CIVIL DRAWINGS
SCALE: 1" = 1'-0"



4 DRAINAGE UNDER EXISTING DRIVEWAY
SCALE: NOT TO SCALE



1 ASPHALT PAVING W/ AGGREGATE BASE
SCALE: 1" = 1'-0"

SEAL



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**CITY OF BERKELEY
BERKELEY
ECHO LAKE
CAMP**

7 Echo Lakes Rd, Echo Lake,
CA 95721

**CONSTRUCTION
DRAWINGS**

ISSUE DATE 02/09/2023

N&T JOB #

REVISIONS

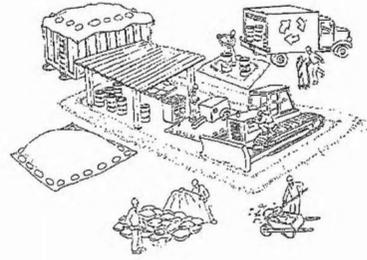
DATE	DESCRIPTION

SHEET TITLE

**CONSTRUCTION
DETAILS**

SHEET NUMBER

City of Berkeley's Pollution Prevention - It's Part of the Plan



Make sure your crews and subs do the job right!

Runoff from streets and other paved areas is a major source of pollution and damage to creeks and the San Francisco Bay. Construction activities can directly affect the health of creeks and the Bay unless contractors and crews plan ahead to keep dirt, debris, and other construction waste away from storm drains and local creeks. Following these guidelines and the project specifications will ensure your compliance with City of Berkeley requirements.

Materials storage & spill cleanup

Non-hazardous materials management

- Sand, dirt, and similar materials must be stored at least 10 feet (3 meters) from catch basins. All construction material must be covered with a tarp and contained with a perimeter control during wet weather or when rain is forecasted or when not actively being used within 14 days.
- Use (but don't overuse) reclaimed water for dust control as needed.
- Sweep or vacuum streets and other paved areas daily. Do not wash down streets or work areas with water!
- Recycle all asphalt, concrete, and aggregate base material from demolition activities. Comply with City of Berkeley Ordinances for recycling construction materials, wood, gyp board, pipe, etc.
- Check dumpsters regularly for leaks and to make sure they are not overfilled. Repair or replace leaking dumpsters promptly.
- Cover all dumpsters with a tarp at the end of every work day or during wet weather.

Hazardous materials management

- Label all hazardous materials and hazardous wastes (such as pesticides, paints, thinners, solvents, fuel, oil, and antifreeze) in accordance with city, county, state, and federal regulations.
- Store hazardous materials and wastes in water tight containers, store in appropriate secondary containment, and cover them at the end of every work day or during wet weather or when rain is forecasted.
- Follow manufacturer's application instructions for hazardous materials and be careful not to use more than necessary. Do not apply chemicals outdoors when rain is forecasted within 24 hours.
- Be sure to arrange for appropriate disposal of all hazardous wastes.

Spill prevention and control

- Keep a stockpile of spill cleanup materials (rags, absorbents, etc.) available at the construction site at all times.
- When spills or leaks occur, contain them immediately and be particularly careful to prevent leaks and spills from reaching the gutter, street, or storm drain. Never wash spilled material into a gutter, street, storm drain, or creek!
- Dispose of all containment and cleanup materials properly.
- Report any hazardous materials spills immediately! Dial 911 or the City of Berkeley's Public Works Department by dialing 311

Construction Entrances and Perimeter

- Establish and maintain effective perimeter controls and stabilize all construction entrances and exits to sufficiently control erosion and sediment discharges from site and tracking off site.
- Sweep or vacuum any street tracking immediately and secure sediment source to prevent further tracking.

Vehicle and equipment maintenance & cleaning

- Inspect vehicles and equipment for leaks frequently. Use drip pans to catch leaks until repairs are made; repair leaks promptly.
- Fuel and maintain vehicles on site only in a bermed area or over a drip pan that is big enough to prevent runoff.
- If you must clean vehicles or equipment on site, clean with water only in a bermed area that will not allow rinse water to run into gutters, streets, storm drains, or creeks.
- Do not clean vehicles or equipment on-site using soaps, solvents, degreasers, steam cleaning equipment, etc.



Earthwork & contaminated soils

- Keep excavated soil on the site where it will not collect in the street.
- Transfer to dump trucks should take place on the site, not in the street.
- Use fiber rolls, silt fences, or other control measures to minimize the flow of silt off the site.



- Earth moving activities are only allowed during dry weather by permit and as approved by the City Inspector in the Field.
- Mature vegetation is the best form of erosion control. Minimize disturbance to existing vegetation whenever possible.
- If you disturb a slope during construction, prevent erosion by securing the soil with erosion control fabric, or seed with fast-growing grasses as soon as possible. Place fiber rolls down-slope until soil is secure.

- If you suspect contamination (from site history, discoloration, odor, texture, abandoned underground tanks or pipes, or buried debris), call the Engineer for help in determining what should be done, and manage disposal of contaminated soil according to their instructions.

Architectural Copper

If project contains architectural copper use best management practices as detailed in the handout Requirements for Architectural Copper available at the lobby of the Permit Service Center.

Dewatering operations

- Effectively manage all run-on, all runoff within the site, and all runoff that discharges from the site. Run-on from off site shall be directed away from all disturbed areas or shall collectively be in compliance.
- Reuse water for dust control, irrigation, or another on-site purpose to the greatest extent possible.
- Be sure to notify and obtain approval from the Engineer before discharging water to a street, gutter, or storm drain. Filtration or diversion through a basin, tank, or sediment trap may be required.
- In areas of known contamination, testing is required prior to reuse or discharge of groundwater. Consult with the Engineer to determine what testing is required and how to interpret results. Contaminated groundwater must be treated or hauled off-site for proper disposal.



Saw cutting

- Always completely cover or barricade storm drain inlets when saw cutting. Use filter fabric, catch basin inlet filters, or sand/gravel bags to keep slurry out of the storm drain system.
- Shovel, absorb, or vacuum saw-cut slurry and pick up all waste as soon as you are finished in one location or at the end of each work day (whichever is sooner!).
- If saw cut slurry enters a catch basin, clean it up immediately.

Paving/asphalt work

- Always cover storm drain inlets and manholes when paving or applying seal coat, tack coat, slurry seal, or fog seal.
- Protect gutters, ditches, and drainage courses with sand/gravel bags, or earthen berms.
- Do not sweep or wash down excess sand from sand sealing into gutters, storm drains, or creeks. Collect sand and return it to the stockpile, or dispose of it as trash.
- Do not use water to wash down fresh asphalt concrete pavement.



Concrete, grout, and mortar storage & waste disposal

- Store concrete, grout, and mortar under cover, on pallets, and away from drainage areas. These materials must never reach a storm drain.
- Wash out concrete equipment/trucks off-site or into contained washout areas that will not allow discharge of wash water onto the underlying soil or onto the surrounding areas.



- Collect the wash water from washing exposed aggregate concrete and remove it for appropriate disposal off site.

Painting

- Never rinse paint brushes or materials in a gutter or street!
- Paint out excess water-based paint before rinsing brushes, rollers, or containers in a sink.
- Paint out excess oil-based paint before cleaning brushes in thinner.
- Filter paint thinners and solvents for reuse whenever possible. Dispose of oil-based paint sludge and unusable thinner as hazardous waste.



Landscape Materials

- Contain, cover, and store on pallets all stockpiled landscape materials (mulch, compost, fertilizers, etc.) during wet weather or when rain is forecasted or when not actively being used within 14 days.
- Discontinue the application of any erodible landscape material within 2 days of forecasted rain and during wet weather.

For references and more detailed information:
www.cleanwaterprogram.org
www.cabmphandbooks.com

Storm drain polluters may be liable for fines of \$10,000 or more per day!

**NOLL
& TAM**
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SEAL



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**CITY OF BERKELEY
BERKELEY
ECHO LAKE
CAMP**

7 Echo Lakes Rd, Echo Lake,
CA 95721

**CONSTRUCTION
DRAWINGS**

ISSUE DATE 02/03/2023

N&T JOB #

REVISIONS

DATE DESCRIPTION

SHEET TITLE

**BEST
MANAGEMENT
PRACTICES**

SHEET NUMBER

L1.03

SEAL



Date signed: 02/07/2023

CITY OF BERKELEY ECHO LAKE CAMP ACCESSIBILITY UPGRADES

7 Echo Lakes Rd, Echo Lake,
CA 95721

CONSTRUCTION DRAWINGS

ISSUE DATE 02/03/2023

N&T JOB #

REVISIONS

DATE	DESCRIPTION

SHEET TITLE

SITE PLAN

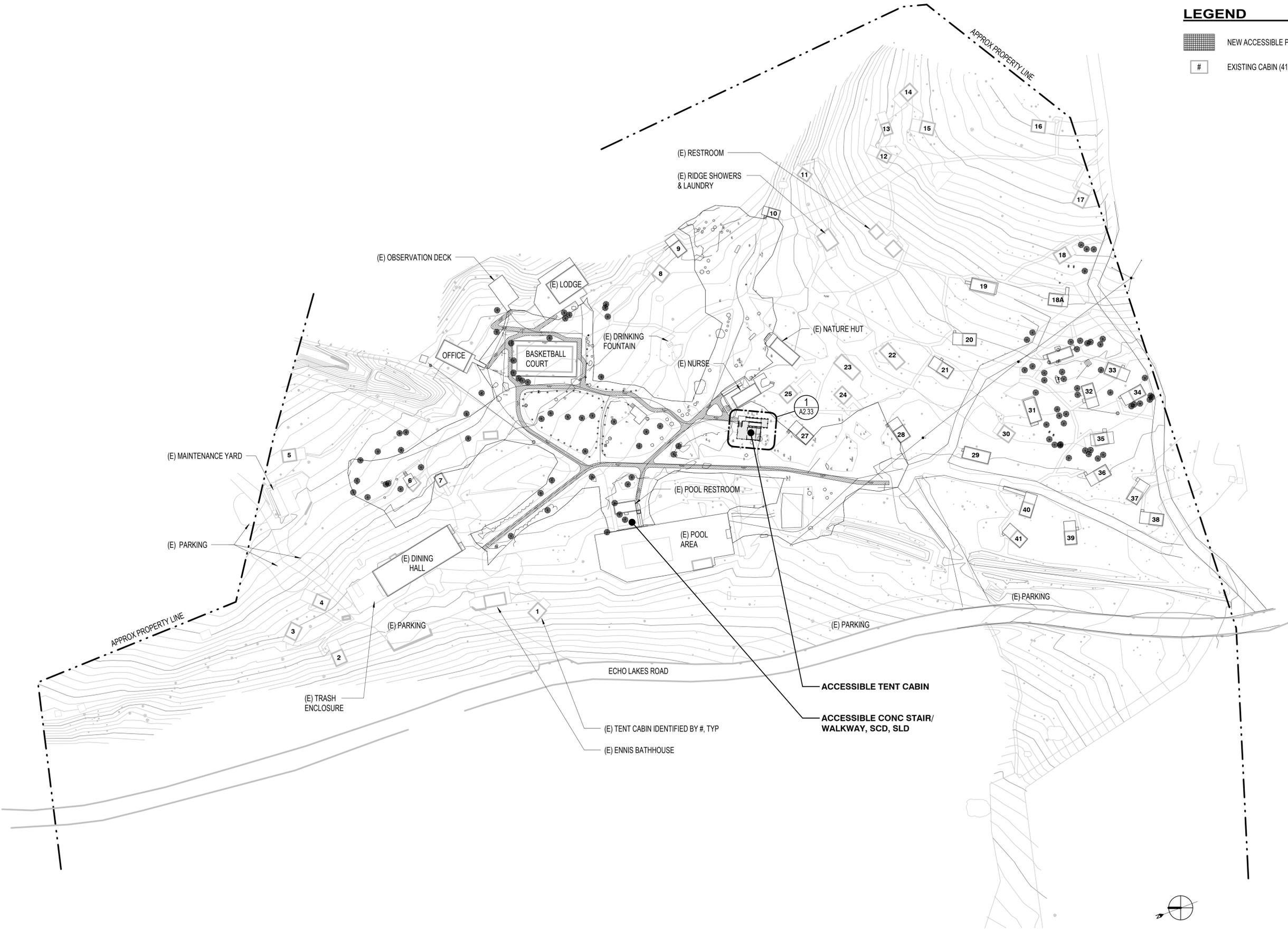
SHEET NUMBER

A2.02

LEGEND

NEW ACCESSIBLE PATHWAY, SLD

EXISTING CABIN (41 TOTAL)



1 OVERALL SITE PLAN
A2.02 1" = 50'-0"

GENERAL NOTES

1. SEE STRUCTURAL DRAWINGS FOR TENT CABIN FOUNDATION ON FRAMING.
2. ALL WOOD TO BE PAINTED CEDAR. FOR WOOD GRADE, SSD.

KEYNOTE LEGEND

Key Value	Keynote Text
03-03	CONC LANDING, SSD
06-02	WOOD DECKING
06-05	WOOD POST
06-14	PARTIAL HEIGHT WOODEN SIDING, 1x8 SHIPLAP, FRAMING ABOVE SIDING TO BE COVERED W/ CANVAS WHICH SHALL BE OFOI

SEAL



Date signed: 02/07/2023

CITY OF BERKELEY ECHO LAKE CAMP ACCESSIBILITY UPGRADES

7 Echo Lakes Rd, Echo Lake,
CA 95721

CONSTRUCTION DRAWINGS

ISSUE DATE 02/03/2023

N&T JOB#

REVISIONS

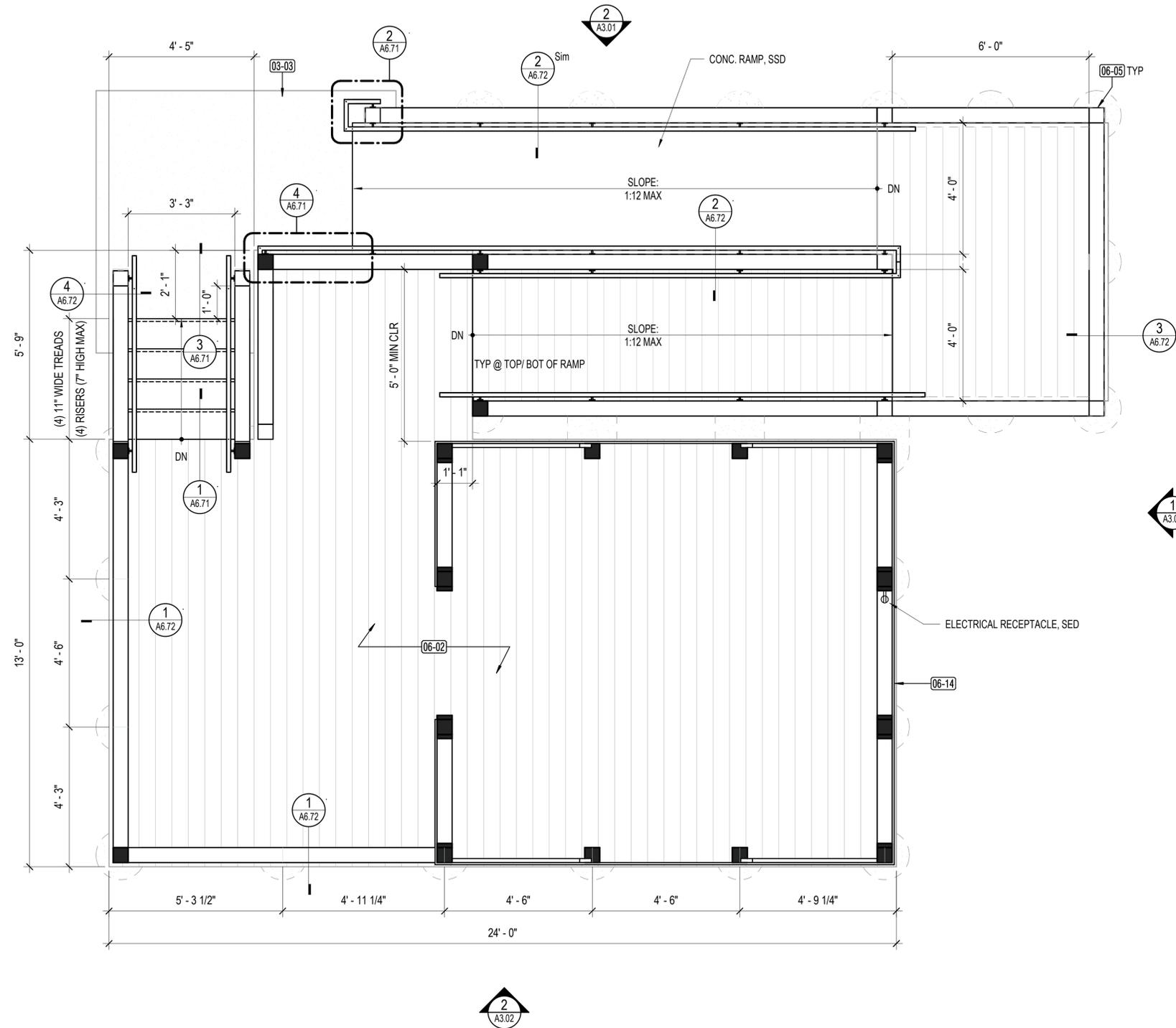
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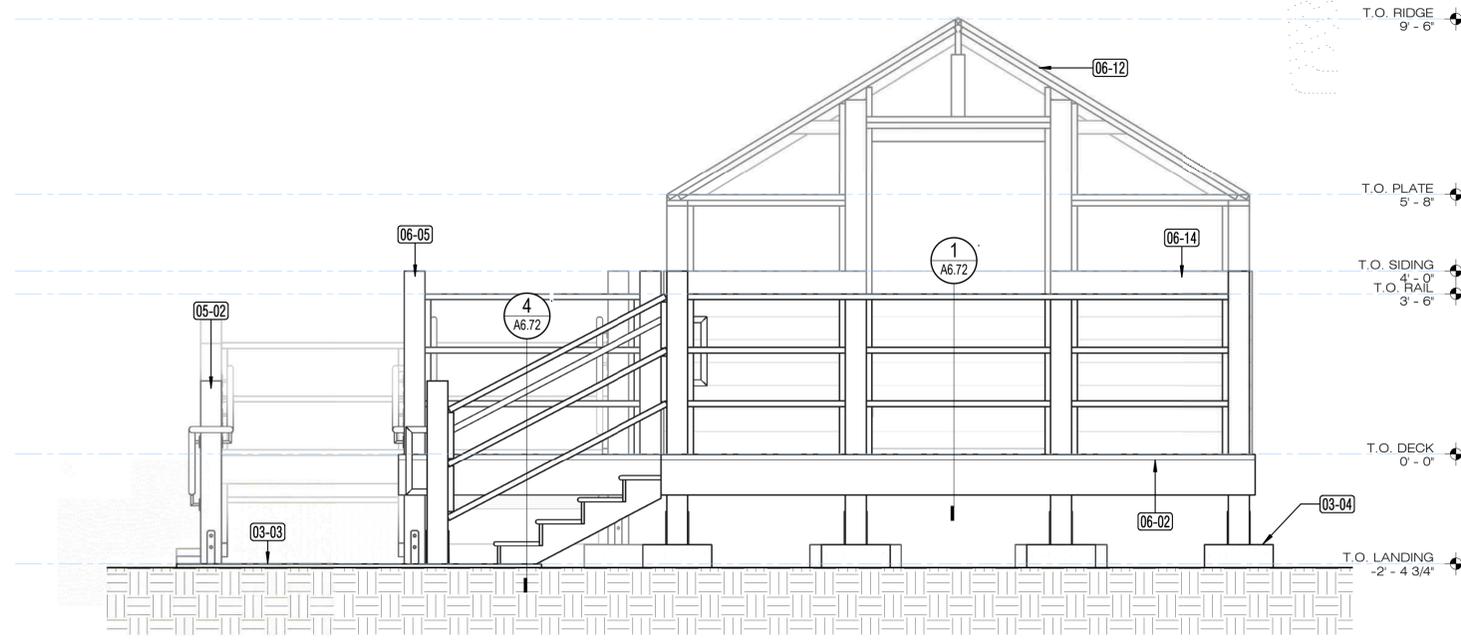
**FLOOR PLAN -
ACCESSIBLE TENT
CABIN**

SHEET NUMBER

A2.33



1
A2.33 ACCESSIBLE TENT CABIN
1/2" = 1'-0"



GENERAL NOTES

1. SEE STRUCTURAL DRAWINGS FOR TENT CABIN FRAMING

KEYNOTE LEGEND	
Key Value	Keynote Text
03-03	CONC LANDING, SSD
03-04	CONC PIER TYP., SSD
05-02	STEEL HANDRAIL
06-02	WOOD DECKING
06-05	WOOD POST
06-12	RAFTER, SSD
06-14	PARTIAL HEIGHT WOODEN SIDING, 1x8 SHIPLAP, FRAMING ABOVE SIDING TO BE COVERED W/ CANVAS WHICH SHALL BE OFOI
A-01	ACCESSIBLE ENTRANCE SIGN

NOLL & TAM
ARCHITECTS

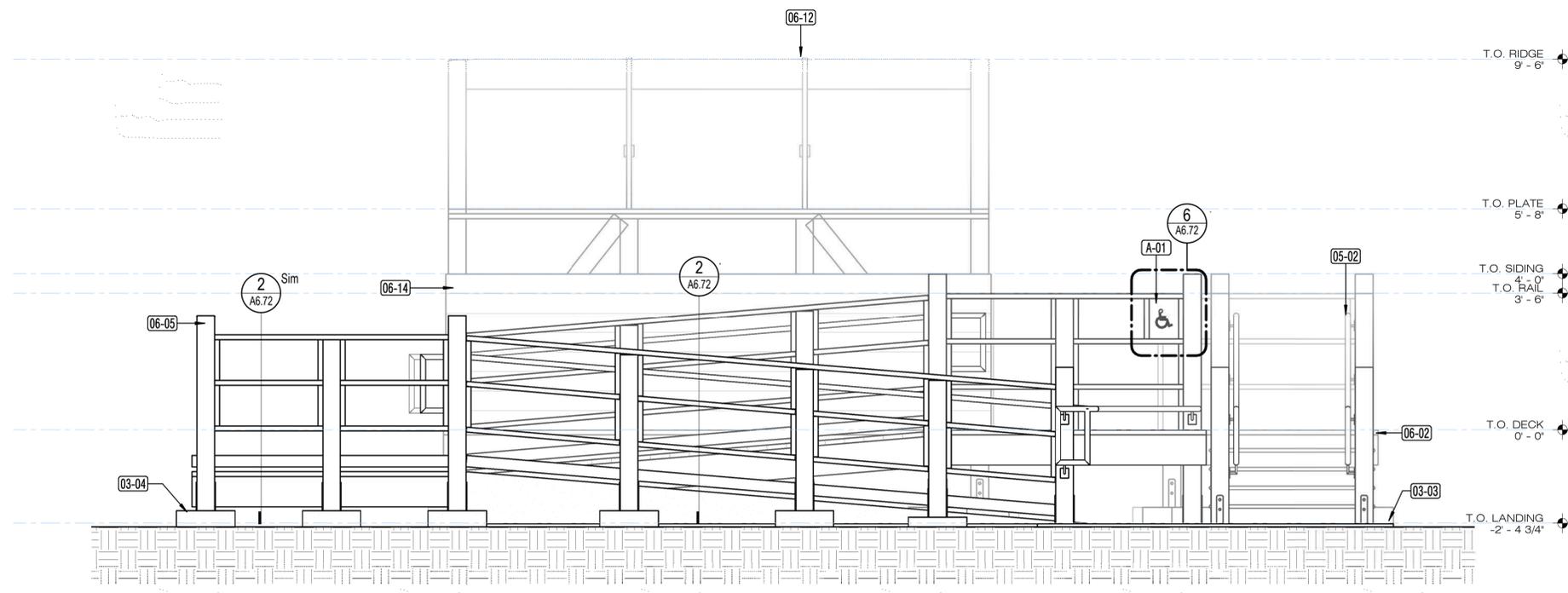
729 Heinz Avenue
Berkeley, CA 94710
tel 510.542.2200
fax 510.542.2201

SEAL



Date signed: 02/07/2023

1 TENT CABIN - NORTH ELEVATION
A3.01 1/2" = 1'-0"



2 TENT CABIN - EAST ELEVATION
A3.01 1/2" = 1'-0"

**CITY OF BERKELEY
ECHO LAKE
CAMP
ACCESSIBILITY
UPGRADES**

7 Echo Lakes Rd, Echo Lake,
CA 95721

**CONSTRUCTION
DRAWINGS**

ISSUE DATE 02/03/2023

N&T JOB #

REVISIONS

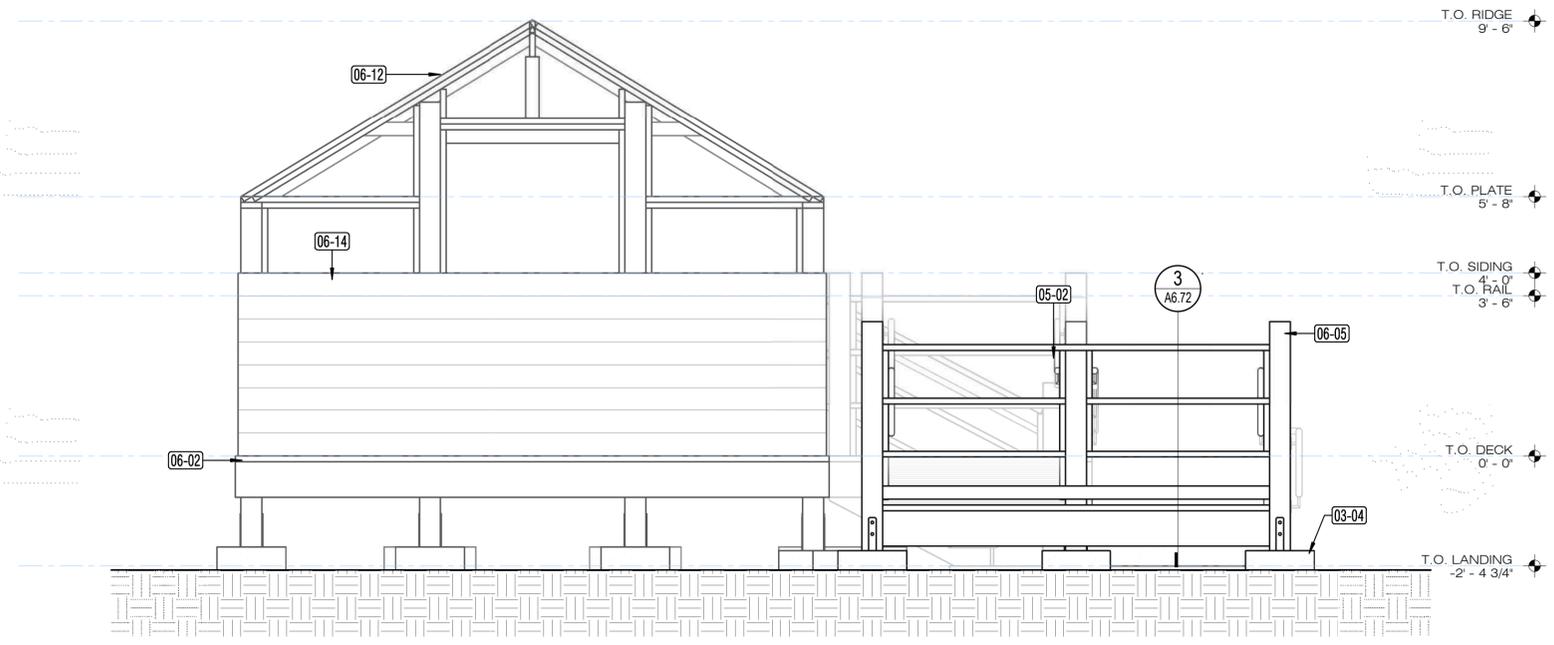
DATE	DESCRIPTION

SHEET TITLE

**EXTERIOR
ELEVATIONS -
ACCESSIBLE TENT
CABIN**

SHEET NUMBER

A3.01



GENERAL NOTES

1. SEE STRUCTURAL DRAWINGS FOR TENT CABIN FRAMING

KEYNOTE LEGEND	
Key Value	Keynote Text
03-04	CONC PIER TYP., SSD
05-02	STEEL HANDRAIL
06-02	WOOD DECKING
06-05	WOOD POST
06-12	RAFTER, SSD
06-14	PARTIAL HEIGHT WOODEN SIDING, 1x8 SHIPLAP, FRAMING ABOVE SIDING TO BE COVERED W/ CANVAS WHICH SHALL BE OFOI

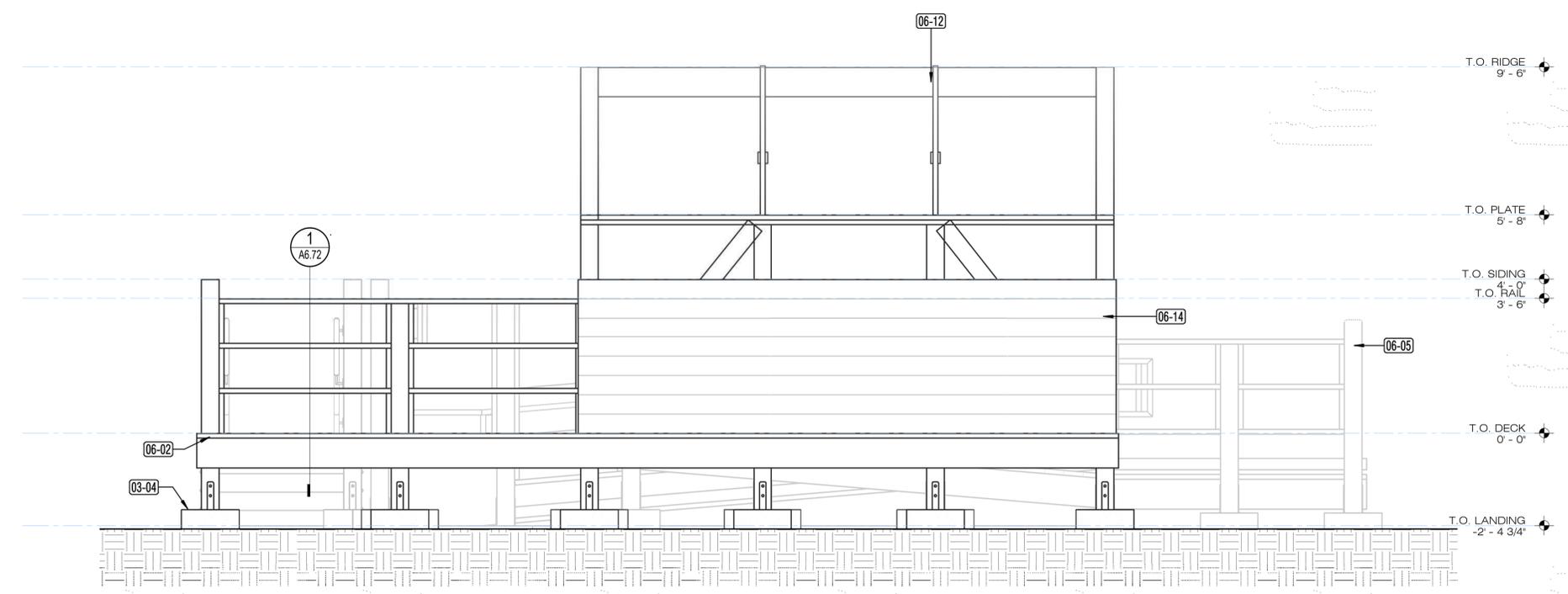
NOLL & TAM
ARCHITECTS

729 Heinz Avenue
Berkeley, CA 94710
tel 510.542.2200
fax 510.542.2201

SEAL



1
A3.02
TENT CABIN - SOUTH ELEVATION
1/2" = 1'-0"



2
A3.02
TENT CABIN - WEST ELEVATION
1/2" = 1'-0"

CITY OF BERKELEY
ECHO LAKE
CAMP
ACCESSIBILITY
UPGRADES

7 Echo Lakes Rd, Echo Lake,
CA 95721

CONSTRUCTION
DRAWINGS

ISSUE DATE 02/03/2023

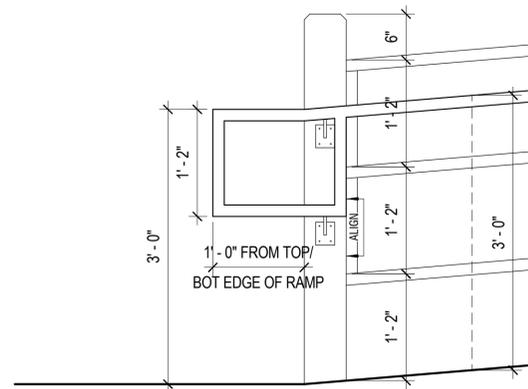
N&T JOB #

REVISIONS	DATE	DESCRIPTION

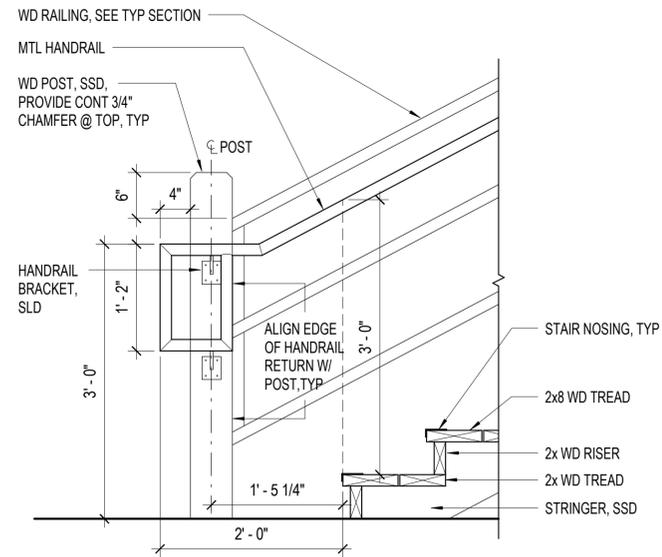
SHEET TITLE
EXTERIOR
ELEVATIONS -
ACCESSIBLE TENT
CABIN

SHEET NUMBER

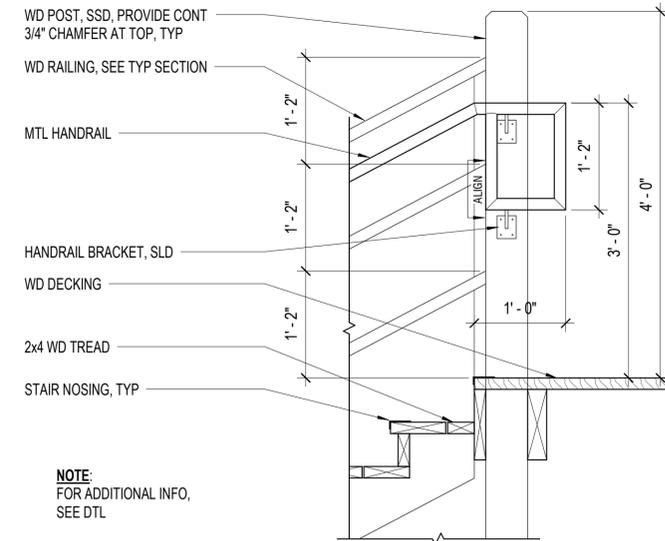
A3.02



5 HANDRAIL EXTENSIONS W/ RETURN @ BOTTOM OF RAMP
1" = 1'-0"

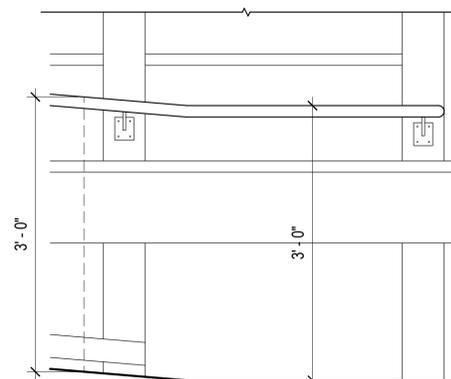


3 SECTION THRU TENT CABIN STAIR (BOTTOM)
1" = 1'-0"

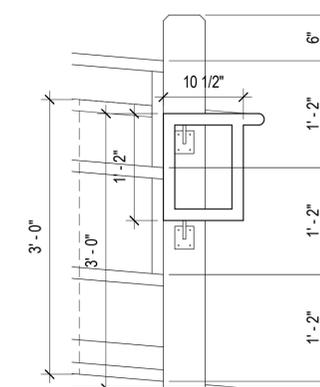
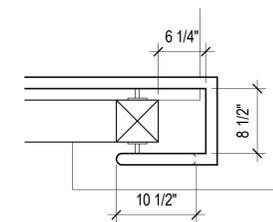


NOTE:
FOR ADDITIONAL INFO,
SEE DTL

1 SECTION THRU TENT CABIN STAIR (TOP)
1" = 1'-0"



4 HANDRAIL EXTENSIONS W/ RETURN @ BOTTOM OF RAMP TO POST
1" = 1'-0"



2 HANDRAIL EXTENSIONS W/ RETURN @ BOTTOM OF RAMP 180 TURN
1" = 1'-0"

SEAL



Date signed: 02/07/2023

**CITY OF BERKELEY
ECHO LAKE
CAMP
ACCESSIBILITY
UPGRADES**

7 Echo Lakes Rd, Echo Lake,
CA 95721

**CONSTRUCTION
DRAWINGS**

ISSUE DATE 02/03/2023

N&T JOB#

REVISIONS

DATE	DESCRIPTION
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SHEET TITLE

**EXTERIOR -
SPECIALTY AND
MISCELLANEOUS
DETAILS**

SHEET NUMBER

A6.71

SEAL



Date signed: 02/07/2023

CITY OF BERKELEY ECHO LAKE CAMP ACCESSIBILITY UPGRADES

7 Echo Lakes Rd, Echo Lake,
CA 95721

CONSTRUCTION DRAWINGS

ISSUE DATE 02/03/2023

N&T JOB #

REVISIONS

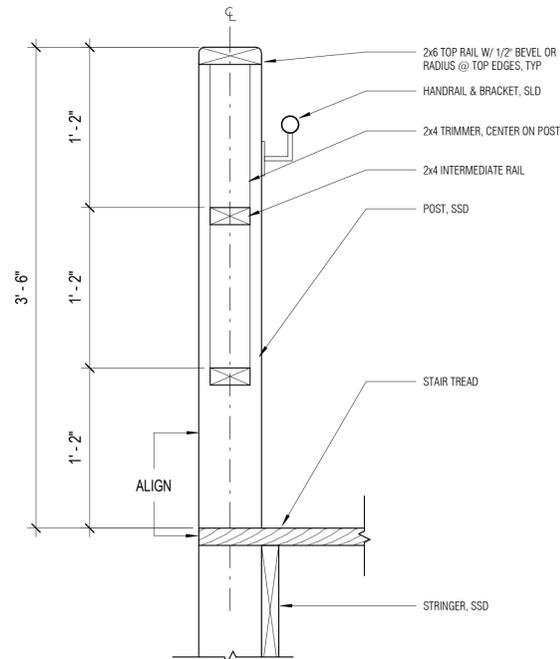
DATE	DESCRIPTION

SHEET TITLE

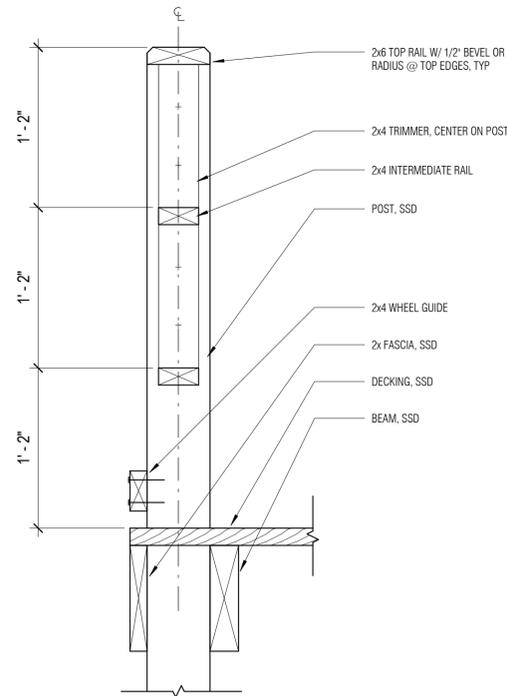
**EXTERIOR -
SPECIALTY AND
MISCELLANEOUS
DETAILS**

SHEET NUMBER

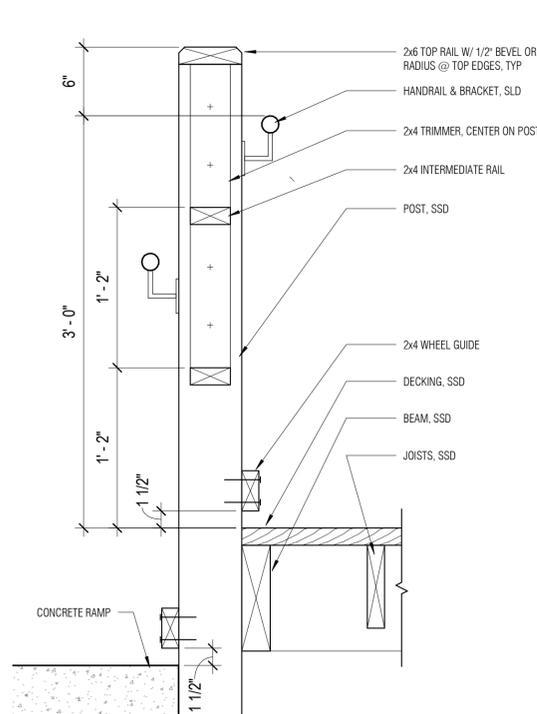
A6.72



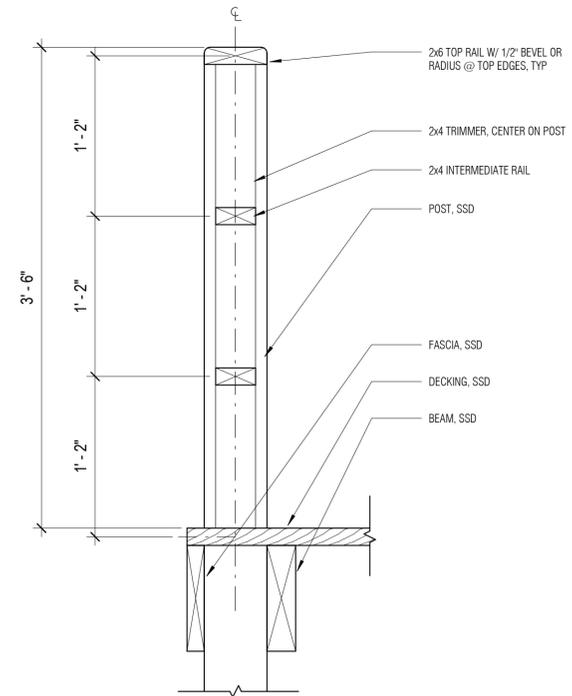
4 GUARDRAIL DETAIL @ STAIR
A6.72 1 1/2" = 1'-0"



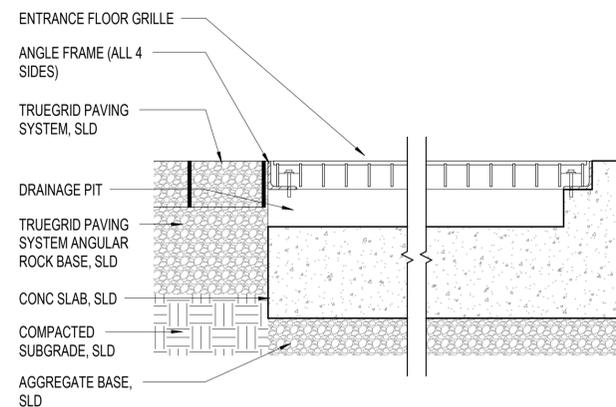
3 GUARDRAIL DETAIL @ RAMP LANDING
A6.72 1 1/2" = 1'-0"



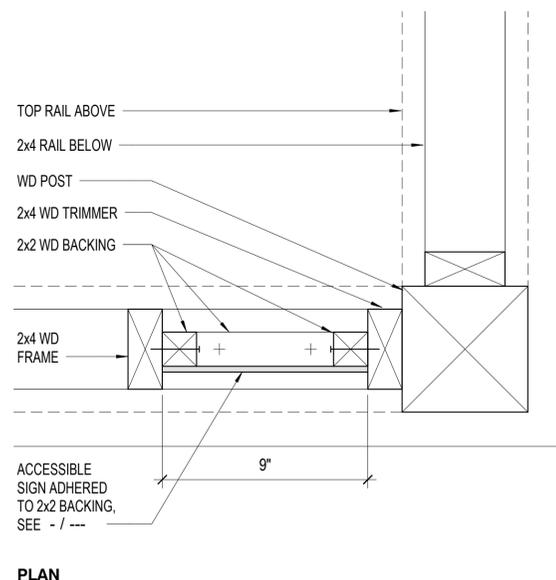
2 GUARDRAIL DETAIL @ RAMP
A6.72 1 1/2" = 1'-0"



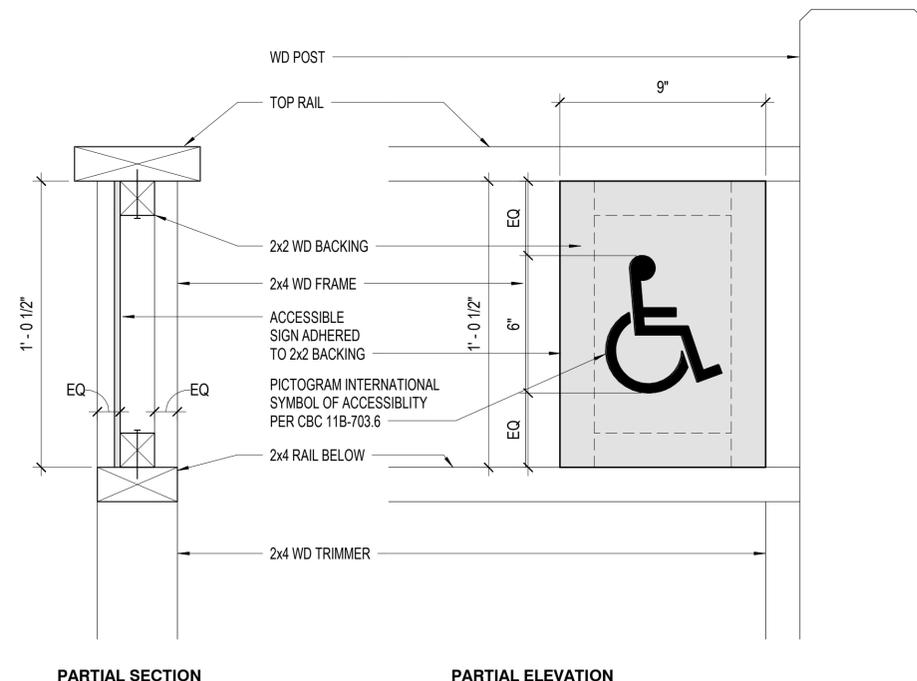
1 TENT CABIN GUARDRAIL DETAIL, TYP.
A6.72 1 1/2" = 1'-0"



5 SECTION @ FLOOR GRILLE
A6.72 3" = 1'-0"



6 ACCESSIBLE SIGN @ TENT CABIN
A6.72 3" = 1'-0"



PARTIAL SECTION

PARTIAL ELEVATION

GENERAL NOTES

- 1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE 2022 CALIFORNIA BUILDING CODE AND THE SPECIFICATIONS.
2. THESE NOTES SHALL APPLY TO ALL STRUCTURAL DRAWINGS UNLESS OTHERWISE NOTED OR SHOWN.
3. ALL WORK IS TO BE ASSUMED AS NEW UNLESS SPECIFICALLY STATED OTHERWISE.
4. FEATURES OF CONSTRUCTION SHOWN ARE TYPICAL AND SHALL APPLY GENERALLY THROUGHOUT SIMILAR CONDITIONS. ALL DETAILS REFERENCED, AND DETAILS NOT REFERENCED ON PLANS, SHALL BE CONSIDERED TYPICAL AND APPLY TO ALL SIMILAR CONDITIONS OF THE CONSTRUCTION.
5. UNLESS SHOWN OTHERWISE, DETAILS SHOWN ON "TYPICAL DETAIL" SHEETS SHALL BE USED WHEREVER APPLICABLE. SPECIFIC DETAILS ON THE STRUCTURAL DRAWINGS TAKE PRECEDENCE OVER "TYPICAL DETAILS". SPECIFIC NOTES ON STRUCTURAL DRAWINGS TAKE PRECEDENCE OVER NOTES SHOWN IN "GENERAL NOTES".
6. THE STRUCTURAL DRAWINGS SHOW STRUCTURAL FEATURES. EXACT CONFIGURATION OF INTERIOR PARTITION WALLS IS SHOWN ON ARCHITECTURAL DRAWINGS AND IS NOT NECESSARILY ALL SHOWN ON STRUCTURAL DRAWINGS. PROVIDE ANCHORAGE, INSERTS, ANCHOR BOLTS, ETC. FOR STRUCTURAL CONNECTIONS OF TOP, SIDES AND BOTTOM OF ALL PARTITION WALLS AS LOCATED ON THE ARCHITECTURAL DRAWINGS.
7. REFER TO THE ARCHITECTURAL DRAWINGS AND THE SPECIFICATIONS FOR THE FOLLOWING: FLOOR FINISHES; DEPRESSIONS AND CURBS ON FLOORS; OPENINGS REQUIRED FOR WINDOWS, DOORS, DUCTS, VENTS, PLUMBING, ETC.; FLASHING, INSERTS, ANCHORAGES, HANGERS ETC., EMBEDDED IN OR ATTACHED TO THE STRUCTURE; ROADWAY, WALKS, PAVING, STAIRS, RAMPS, TERRACES, EXTERIOR GRADES, ELEVATIONS OF ROOF SURFACE AND LOCATIONS OF DRAINS AND PARTITION WALLS.
8. THE CONTRACTOR SHALL COMPARE THE STRUCTURAL DRAWINGS WITH ARCHITECTURAL, PLUMBING, MECHANICAL, CIVIL, AND ELECTRICAL DRAWINGS AS TO ALL LAYOUTS, DIMENSIONS AND ELEVATIONS. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT FOR PROPER ADJUSTMENT BEFORE PROCEEDING WITH THE WORK.
9. IN THE EVENT THAT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN ON THE DRAWINGS OR IN THE GENERAL NOTES OR SPECIFICATIONS, THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS SHOWN FOR SIMILAR CONDITIONS.
10. BEAMS, JOISTS AND ANY OTHER STRUCTURAL ELEMENTS SHALL NOT BE CUT OR PENETRATED, EXCEPT AS SHOWN IN STRUCTURAL DETAILS OR AS APPROVED BY THE ARCHITECT AND THE STRUCTURAL ENGINEER.
11. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD PRIOR TO POURING CONCRETE; ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
12. FEATURES OF EXISTING CONSTRUCTION SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD AND DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEANS, METHODS, TECHNIQUES AND SEQUENCES OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PROGRAMS AND PROCEDURES DURING CONSTRUCTION.
14. THE CONTRACTOR SHALL FOLLOW ALL INSTRUCTIONS, RECOMMENDATIONS AND SAFETY PRECAUTIONS PROVIDED BY THE MANUFACTURER OR SUPPLIER OF ANY MATERIAL OR PRODUCT NOTED IN GENERAL NOTES AND SPECIFICATIONS.
15. SEE ARCHITECTURAL DRAWINGS FOR DETAILS ON REQUIRED VENTILATION OF ROOF JOISTS, FLOOR, JOISTS, AND ATTIC SPACES.
16. GRADES SHOWN ON STRUCTURAL DRAWINGS ARE APPROXIMATE AND FOR GENERAL REFERENCE ONLY.
17. DO NOT SCALE DRAWINGS.

DESIGN CRITERIA

- 1. VERTICAL LOADS:
A. DEAD LOADS:
i. ROOF DEAD LOAD: 12 PSF @ TOILET/SHOWER ROOMS
ii. FLOOR DEAD LOAD: 20 PSF AT CABIN
B. LIVE LOADS:
i. ROOF LIVE LOAD: 20 PSF
ii. TYPICAL DECKS AND FLOORS: 40 PSF
C. SNOW DESIGN LOADS: GROUND SNOW LOAD: 335 PSF (ELEV 7538')
2. LATERAL LOADS:
A. WIND DESIGN LOADS - PER CBC SECTION 1609:
BASIC WIND SPEED: 130 MPH
EXPOSURE CATEGORY: C
B. SEISMIC DESIGN - PER CBC SECTION 1613
RISK CATEGORY: II
SEISMIC DESIGN CATEGORY: D
SITE CLASS: D
FUNDAMENTAL PERIOD: T = 0.13 SEC (TOILET/SHOWER)
BASIC LATERAL FORCE RESISTING SYSTEM - LIGHT-FRAMED WALLS W/ WOOD STRUCTURAL PANELS AT TOILET ROOMS
MAPPED SHORT PERIOD ACCELERATION: Ss = 1.239 g
SITE COEFFICIENT: Fa = 1.00
DESIGN SHORT PERIOD ACCELERATION: Sps = 0.83 g
MAPPED ONE SECOND PERIOD ACCELERATION: S1 = 0.434 g
SITE COEFFICIENT: Fv = 1.57
DESIGN ONE SECOND ACCELERATION: Sps1 = 0.453 g
RESPONSE MODIFICATION FACTOR: R = 6.5
SEISMIC RESPONSE COEFFICIENT, (Cps1/R): Cs1 = 0.1277
BASE SHEAR, V= Cs * W = 0.1277*W AT STRENGTH LEVEL
3. ALLOWABLE SOIL PRESSURES:
DEAD LOAD: 2000 PSF
DEAD + LIVE LOADS: 2000 PSF
DEAD + LIVE + LATERAL LOADS: 2667 PSF

FOUNDATION NOTES

- 1. FOR BIDDING PURPOSES, THE ELEVATION OF THE BOTTOM OF FOOTINGS SHALL BE AS INDICATED ON THE FOUNDATION PLANS AND ON DETAILS. THESE FOOTING DEPTHS ARE MINIMUM AND SHALL IN NO CASE BE LESS THAN 2'-0". SLOPE BOTTOM OF FOOTINGS AT 1:10 MAXIMUM SLOPE AS REQUIRED TO SUIT GRADING AND ADJACENT FOOTING CONDITIONS. STEP BOTTOM OF FOOTINGS PER TYPICAL DETAIL FOR GREATER INCLINATIONS.
2. SOIL BEARING PRESSURES UNDER FOOTINGS AS DESIGNED DO NOT EXCEED ALLOWABLE SOIL PRESSURES DEFINED IN DESIGN CRITERIA ABOVE.
3. WHERE FOUNDATION WALL BACKFILL IS NECESSARY, THE BACKFILL SHALL BE PLACED SIMULTANEOUSLY ON EACH SIDE OF WALL, AND THE LEVEL ON ONE SIDE SHALL NOT EXCEED THE OTHER SIDE BY MORE THAN 6 INCHES DURING THIS OPERATION.
4. FOOTINGS SHALL BE CENTERED UNDER BEARING WALLS ABOVE UNLESS OTHERWISE NOTED.
5. SEE ARCHITECTURAL, PLUMBING, MECHANICAL, ELECTRICAL AND ANY OTHER INCLUDED DRAWINGS, AND CONSULT WITH THE RESPECTIVE TRADES FOR VERIFICATION OF ALL ITEMS SHOWN OR NOT SHOWN ON STRUCTURAL PLANS PRIOR TO POURING CONCRETE FOOTINGS AND FLOOR SLABS, PIPES OR ELECTRICAL CONDUITS SHALL NOT ROUTE UNDER FOOTINGS WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER. IN ALL CASES, PIPES AND CONDUITS SHALL BE EMBEDDED IN TRENCHES WITH LEAN CONCRETE AND SPACED A MINIMUM 3 DIAMETERS BETWEEN EACH PIPE OR CONDUIT BASED ON THE LARGEST DIAMETER.
6. VERIFY LOCATIONS FOR OPENINGS OR PENETRATIONS THROUGH CONCRETE, CONCRETE CURBS, FLOOR DEPRESSIONS, FLOOR SLOPES AND DRAINS, INSERTS, ETC.

CONCRETE NOTES

- 1. ALL CONCRETE SHALL BE REINFORCED UNLESS NOTED "NOT REINFORCED".
2. SEE THE CALIFORNIA BUILDING CODE AND THE SPECIFICATIONS FOR THE REQUIREMENTS IN THE PRODUCTION, TESTING AND INSTALLATION OF CONCRETE.
3. SEE ARCHITECTURAL DRAWINGS FOR THE LOCATION AND EXTENT OF EXTERIOR WALKS AND PAVEMENTS AND FOR REINFORCEMENT REQUIREMENTS.
4. REINFORCEMENT SHALL BE PER ASTM A615, GRADE 60 WITH BAR MARKS LEGIBLY ROLLED INTO THE SURFACE INDICATING SIZE, TYPE OF STEEL, AND YIELD STRENGTH DESIGNATION.
5. REINFORCEMENT FOR WELDING, FOR SHEAR WALLS, OR FOR MOMENT FRAMES SHALL BE PER ASTM A706, GRADE 60 WITH BAR MARKS LEGIBLY ROLLED INTO THE SURFACE INDICATING SIZE, TYPE OF STEEL, AND YIELD STRENGTH DESIGNATION.
6. CONCRETE SHALL CONFORM TO THE FOLLOWING CLASSES:

Table with 5 columns: 28 DAY STRNGTH (PSI), MAX AGGREGATE SIZE (IN), CONCRETE WEIGHT (PCF), MAX W/C RATIO %, FLYASH %. Rows include 4000, 2500, and 1000 PSI concrete grades.

- 7. PORTLAND CEMENT SHALL BE PROPORTIONED IN ACCORDANCE WITH ASTM C94, TYPE I OR II. PROVIDE 15 MIL VAPOR BARRIER CONFORMING TO ASTM E 1745 CLASS A UNDER ALL SLABS ON GRADE.
8. REPLACE CEMENT CONTENT WITH FLYASH CONFORMING TO ASTM C618 CLASS C OR F, OR GROUND GRANULATED BLAST FURNACE SLAG CONFORMING TO ASTM 989, CLASS 100 OR 120, PER TABLE ABOVE.
9. REINFORCEMENT, ANCHOR BOLTS, PIPE SLEEVES, AND OTHER INSERTS SHALL BE POSITIVELY SECURED IN PLACE BEFORE CONCRETE IS POURED. "WET-SETTING" WILL NOT BE ALLOWED. REINFORCING BARS WELDED TO STRUCTURAL STEEL SHALL BE SUPPLIED BY REINFORCING BAR SUPPLIER FACTOR AND ALL WELDING SHALL BE DONE BY STRUCTURAL STEEL SUB-CONTRACTOR.
10. BAR COVERAGE TO FACE OF BAR, EXCEPT AS OTHERWISE SHOWN, SHALL BE:
3" WHERE CONCRETE IS POURED AGAINST EARTH OR AGAINST GROUND CONTACT
2" FOR BARS LARGER THAN #5, WHERE CONCRETE SURFACES ARE EXPOSED TO EARTH OR TO WEATHER AFTER REMOVAL OF FORMS.
1-1/2" FOR #5 BARS OR SMALLER, WHERE CONCRETE SURFACES ARE EXPOSED TO EARTH OR TO WEATHER AFTER REMOVAL OF FORMS
1-1/2" FOR COLUMN SPIRAL TIES*
1" FOR WALL BARS (DOUBLE MAT)*
3/4" FOR STRUCTURAL SLAB BARS, TOP AND BOTTOM*
*UNLESS GOVERNED ABOVE BY EXPOSURE OR NOTED ON DETAILS
11. INTERIOR SLAB ON GROUND SHALL BE REINFORCED AS SHOWN ON STRUCTURAL PLANS. LOCATIONS OF CONSTRUCTION JOINTS OTHER THAN SHOWN ON DRAWINGS MUST BE APPROVED BY THE ARCHITECT.
12. ALL CONCRETE CURBS ARE 6 INCHES HIGH UNLESS OTHERWISE NOTED.
13. WHERE NEW CONSTRUCTION IS INTEGRATED WITH EXISTING CONCRETE CONSTRUCTION, CARE SHALL BE TAKEN SO AS NOT TO DAMAGE EXISTING REMAINING CONCRETE AND REINFORCING. WHERE NEW CONCRETE ABUTS EXISTING CONCRETE, CLEAN EXISTING CONCRETE SURFACE WITH HIGH PRESSURE WATER SPRAY. APPLY APPROVED BONDING AGENT TO SURFACE OF EXISTING CONCRETE.
14. HOLES FOR GROUDED ANCHORS SHALL BE DRILLED WITH ROTARY HAMMER OR OTHER SUITABLE METHODS TO ENSURE EXISTING REINFORCEMENT IS NOT DAMAGED. HOLE DIAMETER SHALL BE 1/8" GREATER THAN HOLE IN ANCHOR ROD UNLESS OTHERWISE NOTED. GROUT SHALL BE NON-SHRINK EPOXY. LOCATE EXISTING REINFORCING BARS PRIOR TO DRILLING HOLES. DO NOT DAMAGE EXISTING REINFORCING. METHOD OF LOCATING EXISTING REINFORCING BARS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. ALL MIS-DRILLED OR UNACCEPTABLE HOLES SHALL BE GROUTED SOLID.
15. TERMINATION OF REINFORCEMENT:
A. TERMINATE ALL BARS IN LAPS, 90 DEGREE BENDS, OR DOWELS INTO FOOTINGS OR PERPENDICULAR WALLS OR COLUMNS.
B. BEND TOP FOOTING BARS DOWN TO BOTTOM REINFORCING.
C. BEND BOTTOM FOOTING BARS UP WITH STANDARD 90 DEGREE BENDS.
D. END WALLS WITH HORIZONTAL BARS BENT DOWN OR HORIZONTAL OR BENT INTO PERPENDICULAR WALLS, COLUMNS OR CORNERS.
E. PROVIDE DOWELS INTO FOOTINGS FOR WALLS AND COLUMNS OF THE SAME BAR SIZE AND SPACING AS IN WALLS AND COLUMNS. LAP DOWELS PER THE LAP SCHEDULE AT THE BASE OF THE WALL OR COLUMN.
F. ALL REINFORCEMENT SHALL LAP PER THE LAP SPLICE SCHEDULE. LAP NO MORE THAN EVERY OTHER BAR AT A SINGLE LOCATION (50% BARS). STAGGER LAPS 5'-0". REINFORCEMENT LAPS MAY BE MADE WITH MECHANICAL COUPLERS, TYPE 1, WHICH CAN ACHIEVE 125% OF BAR STRENGTH OR GREATER. SUBMIT ICC EVALUATION REPORT TO STRUCTURAL ENGINEER FOR REVIEW.
16. ROUGHEN SURFACES AND KEY JOINTS AT HARDENED CONCRETE. ROUGHEN ALL SURFACES AT COLD JOINTS TO 1/4 INCH AMPLITUDE UNLESS NOTED OTHERWISE IN DETAILS. ROUGHEN ALL JOINTS:
A. PROVIDE 1.5" X 3.5" KEY JOINTS AT BOTTOM OF WALLS AND AT ENDS OF WALLS AT COLUMNS, CROSS WALLS OR CORNERS.
B. PROVIDE 1.5" X 3.5" X 10" KEY JOINTS AT GRADE BEAMS.
C. ROUGHEN SURFACES AT TOPS OF FOOTINGS BELOW WALLS AND COLUMNS.
D. A ROUGHEN SURFACES AT TOPS OF ALL WALLS, COLUMNS AND JOINTS WITHIN ELEMENTS

CARPENTRY NOTES

- 1. SILLS ON CONCRETE SHALL BE PRESSURE TREATED DOUGLAS FIR LARCH 3x THICK AT ALL EXTERIOR WALLS AND INTERIOR SHEAR WALLS NOTED ON PLAN. ALL OTHER SILLS ON CONCRETE MAY BE PRESSURE TREATED DOUGLAS FIR LARCH 2x THICK. THEY SHALL BE ANCHORED WITH 5/8" DIAMETER MACHINE BOLTS WITH 7" EMBEDMENT AT SHEAR WALLS. BOLTS SHALL HAVE NUT, CUT WASHER AND SIMPSON STRONG-BOLT 2 FOR 6 INCH WALLS AND 0.229"x3"x3" PLATE WASHER AT 4 INCH WALLS. AT NON-SHEAR WALLS, BEARING PLATE IS NOT REQUIRED. LOCATE BOLTS 6" MINIMUM AND 12" MAXIMUM FROM EACH END OF EACH STICK AND NOT OVER 48" ON CENTER BETWEEN. SEE SHEAR WALL SCHEDULE OR PLANS FOR SPECIFIC SPACING OF ANCHOR BOLTS WHICH MAY BE NOTED AS LESS THAN 48" ON CENTER. THERE SHALL BE AT LEAST 2 BOLTS IN EACH STICK, WHERE NOTCHES FOR PIPES, ETC., EXCEED 1/3 THE WIDTH OF THE SILL, PLACE A BOLT WITHIN 6" OF EACH SIDE OF NOTCH. TIEDOWN BOLTS SHALL NOT BE CONSIDERED AS SILL BOLTS.
2. FRAMING LUMBER: DOUGLAS FIR-LARCH, MANUFACTURED AND GRADED IN ACCORDANCE WITH THE WEST COAST LUMBER INSPECTION BUREAU "STANDARD GRADING RULES NO. 17", LATEST EDITION INCLUDING ALL SUPPLEMENTS.
STRUCTURAL LIGHT FRAMING: NO. 1, 2" TO 4" THICK
BEAMS: NO. 1, FREE OF HEART CENTER, 5" AND THICKER
POSTS: NO. 1
STUDS: 2x4 OR 3x4 - CONSTRUCTION
2x6 AND LARGER - NO. 2
CEDAR FRAMING WHERE NOTED SHALL BE ALASKAN CEDAR NO. 1
3. ALL FRAMING LUMBER SHALL BE HAVE A MAXIMUM MOISTURE CONTENT OF 19 PERCENT AT TIME OF INSTALLATION. LUMBER USED IN WALLS AND FLOORS SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 19% AT THE TIME OF CLOSURE.
STUD AND POST SIZES (UNLESS OTHERWISE NOTED)
STUDS AT NEW EXTERIOR WALLS: 2x6 @ 16" MAX ON CENTER
STUDS AT NEW INTERIOR WALLS: 2x4 @ 16" MAX ON CENTER
POSTS: 2x6 AND LARGER - NO. 2
4. BLOCKING AND BRIDGING - PROVIDE AS FOLLOWS:
A. 2x SOLID BLOCKING BETWEEN JOISTS AND RAFTERS OVER SUPPORT.
B. 2x SOLID BLOCKING BETWEEN JOISTS AND RAFTERS NOT OVER 8'-0" ON CENTER NOR MORE THAN 8'-0" FROM SUPPORT.
C. OMIT BLOCKING BETWEEN CEILING JOISTS AND RAFTERS 2x6 AND SMALLER.
5. PIPES EXCEEDING ONE THIRD OF THE PLATE THICKNESS IN PARTITIONS USED AS BEARING OR SHEAR WALLS, UNLESS OTHERWISE DETAILED OR COMPLETELY FURRED CLEAR OF THE STUDS, PIPES SHALL PASS THROUGH THE CENTER OF THE PLATES USING A NEATLY BORED HOLE. NO NOTCHING WILL BE ALLOWED.
6. LAG SCREWS SHALL BE SCREWED (NOT DRIVEN) INTO PLACE. DRILL HOLES SAME DIAMETER AND DEPTH AS SHANK. THEN DRILL HOLE 60-70% OF DIAMETER AT BASE OF THREAD FOR THE THREADED PORTION. USE STEEL PLATE WASHERS AS REQUIRED FOR THE SAME BOLT SIZE. BOLTS IN WOOD SHALL BE MACHINE BOLTS UNLESS OTHERWISE NOTED. ALL MACHINE BOLTS SHALL HAVE CUT THREADS.
7. BOLT HOLES IN WOOD AND STEEL SHALL BE THE DIAMETER OF THE BOLT PLUS 1/16". PROVIDE PLATE WASHER UNDER HEAD AND NUT OF BOLT WHERE BEARING IS AGAINST WOOD. LENGTH OF THREAD SHALL BE SUCH THAT THREADS DO NOT BEAR AGAINST WOOD. ALL NUTS SHALL BE TIGHTENED WHEN PLACED AND RE-TIGHTENED AT COMPLETION OF THE JOB IMMEDIATELY BEFORE CLOSING WITH FINISH CONSTRUCTION.
8. CONNECTORS FOR WOOD CONSTRUCTION NOTED ON PLANS AND DETAILS SHALL BE SIMPSON COMPANY STRONG-BOLTS OR EQUIVALENTS OR APPROVED EQUALS.
9. STUDS SHALL BE ONE PIECE BETWEEN FLOORS AND FROM FLOOR TO ROOF. ALIGN CENTERLINE OF STUDS WITH CENTERLINE OF FLOOR JOISTS. ALIGN CENTERLINE OF STUDS FOR FULL HEIGHT OF STRUCTURE TYPICAL.
10. ALL POSTS SHALL BE FULL HEIGHT FROM FOUNDATION TO ROOF. WHERE POSTS ARE DISCONTINUOUS AT JOIST SPACE AND/OR FROM TOP OF BEAMS/HEADERS TO LOWER TOP PLATE, BLOCK THIS SPACE WITH STUD POST.

- 14. FASTENERS PENETRATING PRESSURE-PRESERVATIVE TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED PER ASTM A153, CLASS D.
15. ALL EXPOSED CONNECTORS FOR PRESSURE-PRESERVATIVE TREATED WOOD SHALL BE STAINLESS STEEL. ALL NAILS, SCREWS, BOLTS, ETC. FOR SUCH CONNECTORS SHALL BE STAINLESS STEEL.

ADDITIONAL TENT CABIN CARPENTRY NOTES.

- 1. ALL FRAMING HARDWARE SHALL BE HOT-DIPPED GALVANIZED (ASTM A153/ASTM F2329 OR AASHTO M232)
2. ALL BORINGS DONE AFTER PRESERVATIVE TREATMENT SHALL BE FIELD TREATED IN ACCORDANCE WITH AASHTO M133 WITH AN APPROVED WOOD PREPARATIVE
3. APPLY BITUMINIOUS SEALER OR ROOFING CEMENT TO CUT ENDS OF JOISTS
4. WHERE WOOD JOISTS, BEAMS AND FRAMING ARE CLOSER THAN 18" TO EXPOSED GROUND, FRAMING SHALL BE PRESSURE TREATED OR OF NATURALLY DURABLE WOOD (CEDAR OR REDWOOD)
5. USE 3/4" DOME HEAD BOLTS W/CUT WASHER AND NUT FOR POST TO BEAM CONNECTIONS (TYP). ORIENT FASTENERS WITH DOME HEAD TO OUTSIDE. CENTER FASTENER IN POST.
6. USE PRESSURE TREATED DOUGLAS-FIR #2 FOR WOOD WITHIN 6" OF EARTH INCLUDING STAIR STRINGERS.
7. PROTECT ALL EXPOSED SURFACES, PARTICULARLY CUT ENDS OF DECKING AND BEAMS, BY APPLYING A SEMI-TRANSPARENT OIL BASED SATIN OR TINTED WATER REPELLENT PRESERVATIVE. SURFACE TREATMENT SHALL CONTAIN A FUNGICIDE. APPLY PER MANUFACTURERS RECOMMENDATIONS.

SHEATHING NOTES

- 1. ROOF AND ALL EXTERIOR WALLS AT TOILET/SHOWER BLDG SHALL BE SHEATHED WITH DOUGLAS FIR SHEATHING WITH EXTERIOR GLUE AS FOLLOWS:
ROOF: 5/8" APA RATED PLYWOOD, 40/20, EXPOSURE 1
FLOOR: DECKING SHALL BE NOMINAL 2X8 REDWOOD CONSTRUCTION HEART OR CEDAR WCLB COMMON ORBTERR
WALLS: 1/2", APA RATED SHEATHING, 32/16, EXPOSURE 1
2. ALL EXTERIOR WALLS AT TOILET/SHOWER BLDG SHALL BE SHEATHED.
3. ALL SHEATHING JOINTS SHALL EXTEND CONTINUOUSLY BEHIND ALL FINISH. WHERE IT IS TO BE PLASTERED, IT SHALL BE PROTECTED BY AN UNBROKEN LAYER OF MOISTURE-TIGHT PAPER UNDER LATHING.
4. IN GENERAL, SHEETS SHALL BE 4'-0" X 8'-0". MINIMUM SHEET DIMENSION IS 24 INCHES, UNLESS ALL EDGES ARE FULLY SUPPORTED BY FRAMING MEMBERS OR BLOCKING. THE LONG DIMENSION SHALL BE LAID EITHER HORIZONTALLY OR VERTICALLY AT WALLS. ROOF AND FLOOR SHEETS SHALL BE LAID WITH FACE PLIES ACROSS JOISTS OR FRAMING MEMBERS AND WITH END JOINTS STAGGERED 4'-0". USE PLYCLIPS HALFWAY BETWEEN EACH SUPPORT AT UNBLOCKED ROOFS. ALL SHEATHING JOINTS SHALL BE ACCURATELY CENTERED ON SUPPORTING ELEMENTS. INCLUDING BLOCKING. BLOCKING BETWEEN JOISTS FOR EDGE NAILING SHALL BE 3/4" MINIMUM FLAT BLOCKING, EXCEPT WHERE DETAILED OTHERWISE. ROOF AND FLOOR SHEATHING MAY BE UNBLOCKED. GLUE FLOOR SHEATHING TO ALL SUPPORTS INCLUDING BLOCKING WITH AN ADHESIVE RECOMMENDED BY THE AMERICAN PLYWOOD ASSOCIATION FOR THIS PURPOSE.

NAILING NOTES

- 1. ALL NAILS SHALL BE GALVANIZED WIRE NAILS. WHERE NAILS TEND TO SPLIT THE WOOD, NAIL HOLES SHALL BE PRE-DRILLED.
2. PROVIDE MINIMUM NAILING REQUIREMENTS AS SET FORTH IN CALIFORNIA BUILDING CODE TABLE 2304.10.1 EXCEPT THAT BOX NAILS SHALL NOT BE USED.
3. PLYWOOD NAILING:
AT ROOF: 5/8" PLYWOOD WITH 10d @ 4" ON CENTER ALONG SUPPORTED PANEL EDGES AND WHERE NOTED ON PLANS AND DETAILS AS EDGE NAILING (EN) AND 10d @ 12" ON CENTER ALONG INTERMEDIATE FRAMING MEMBERS.
SEE SHEAR WALL SCHEDULE.
4. MAINTAIN ACCURATE NAIL SPACING AS INDICATED. NAIL SPACING CLOSER THAN SPECIFIED WILL BE CAUSE FOR REJECTION OF THE WORK.
5. NAILS PENETRATING PRESSURE-PRESERVATIVE TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED PER ASTM A153, CLASS D. NAILS FOR STAINLESS STEEL CONNECTORS SHALL BE STAINLESS STEEL.

STRUCTURAL STEEL NOTES

- 1. STRUCTURAL STEEL SHALL BE ASTM A36 UNLESS OTHERWISE NOTED.
2. ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS, LATEST EDITION.
3. ANCHOR BOLTS SHALL BE ASTM F1554, Fy = 36 KSI. THREADED RODS SHALL BE PER ASTM A193 GRADE B7.
4. ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS.
5. ALL TESTING AND INSPECTION OF SHOP AND FIELD WELDING OPERATIONS SHALL BE MADE BY A CERTIFIED WELDING INSPECTOR.
6. ALL WELDS SHALL BE TESTED AND INSPECTED IN ACCORDANCE WITH
A. THE CALIFORNIA BUILDING CODE
ALL WELDS ELECTRODES SHALL BE E70 SERIES. THE WELDING INSPECTOR SHALL CHECK THE WELDER'S CERTIFICATION, MATERIAL, EQUIPMENT, FIT UP AND PROCEDURES AS WELL AS THE WELDS. THE INSPECTOR SHALL USE ALL MEANS NECESSARY TO DETERMINE THE QUALITY OF THE WELDS, INCLUDING THE USE OF GAMMA RAY, MAGNAFLUX, TREPANNING, SONICS OR ANY OTHER AID TO VISUALLY INSPECT AND TO ASCERTAIN THE ADEQUACY OF THE WELDING. THE INSPECTOR SHALL FURNISH THE ARCHITECT AND THE STRUCTURAL ENGINEER WITH A REPORT VERIFYING THAT ALL WELDS HAVE BEEN DONE IN CONFORMITY WITH THE PLANS, SPECIFICATIONS, AWS D1.1 AND ANY APPLICABLE CODES. UNLESS NOTED OTHERWISE ON THE DRAWINGS, THE FABRICATION AND ERECTION REQUIREMENTS MAY DICTATE FIELD WELDING AND/OR SHOP WELDING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE METHOD OF WELDING TO FULFILL THESE REQUIREMENTS. ALL ASSOCIATED COSTS SHALL BE INCLUDED IN THE CONTRACT PRICE. ALL WELDS USED IN MEMBERS AND CONNECTIONS IN THE SEISMIC LOAD RESISTING SYSTEM AS DEFINED ON THE PLANS SHALL BE MADE WITH A FILLER METAL THAT CAN PRODUCE WELDS THAT HAVE A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT-LB AT 0 DEGREES FAHRENHEIT AS DETERMINED BY THE APPROPRIATE AWS A5 CLASSIFICATION TEST METHOD OR MANUFACTURER CERTIFICATION.
7. USE ONE TYPE OF WELDING ELECTRODE THROUGHOUT ANY ONE CONNECTION.
8. BOLT HOLES IN STEEL SHALL BE 1/16" OVERSIZE UNLESS OTHERWISE NOTED.

EXPANSION ANCHORS IN HARDENED CONCRETE NOTES

- 1. INSTALLATION: THE ANCHORS MUST BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS GIVEN IN ISO RESEARCH REPORT AND THE RECOMMENDATIONS FOR THE SPECIFIC ANCHOR. HOLES FOR EXPANSION ANCHORS SHALL BE DRILLED WITH ROTARY HAMMER OR OTHER SUITABLE METHODS TO ENSURE EXISTING REINFORCEMENT IS NOT DAMAGED. HOLE DIAMETER SHALL BE AS REQUIRED BY MANUFACTURER. LOCATE EXISTING REINFORCING BARS PRIOR TO DRILLING HOLES. DO NOT DAMAGE EXISTING REINFORCING. METHOD OF LOCATING EXISTING REINFORCING BARS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. ALL MIS-DRILLED OR UNACCEPTABLE HOLES SHALL BE GROUTED SOLID.
2. JOB TESTING AND INSPECTION: CONTINUOUS VISUAL INSPECTION OF ANCHOR INSTALLATION IS REQUIRED. TEST FIRST TEN INSTALLED ANCHORS OF EACH SIZE TO TENSION PROOF LOAD. IF ALL PASS, TEST 10% OF REMAINING ANCHORS. IF ANY ANCHOR FAILS, TEST ALL ANCHORS UNTIL 10 SUCCESSFUL CONSECUTIVE TESTS ARE MADE, THEN RESUME 10% TESTING FREQUENCY. THE LOAD TEST SHALL BE PERFORMED IN THE PRESENCE OF THE PROJECT INSPECTOR. THE LOAD MAY BE APPLIED BY ANY METHOD THAT WILL EFFECTIVELY MEASURE THE TENSION IN THE ANCHOR, SUCH AS DIRECT PULL WITH A HYDRAULIC JACK, A TORQUE WRENCH CALIBRATED USING THE SPECIFIC ANCHOR, CALIBRATED SPRING-LOADED DEVICES, ETC. ANCHORS IN WHICH THE TORQUE IS USED TO EXPAND THE ANCHOR WITHOUT APPLYING TENSION TO THE BOLT MAY NOT BE VERIFIED WITH A TORQUE WRENCH.
3. ALL EXPANSION ANCHORS IN CONCRETE SHALL BE HILTI KB-TZ, (PER ESR-1917), SIMPSON STRONG-BOLT 2 (PER ESR 3037) OR APPROVED EQUAL.
4. ALL EXPANSION ANCHORS IN MASONRY SHALL BE HILTI KWIK BOLT-3, (PER ESR-1385), SIMPSON STRONG-BOLT 2 (PER IAPMO UES ER-240), OR APPROVED EQUAL.
5. TEST INSPECTOR SHALL VERIFY ALL EXPANSION ANCHORS NOT TENSION LOAD TESTED FOR MINIMUM INSTALLATION TORQUE NOTED ON SCHEDULE BELOW.
6. TENSION PROOF LOAD SHALL BE BY AN INDEPENDENT TESTING LABORATORY.

EPOXY ANCHORS AND DOWELS IN HARDENED CONCRETE NOTES

- 1. EPOXY FOR SETTING ANCHORS OR DOWELS IN HARDENED CONCRETE SHALL BE SIMPSON SET-3G PER ESR 4057 OR APPROVED EQUAL.
2. HOLES FOR EPOXY ANCHORS SHALL BE DRILLED WITH ROTARY HAMMER OR OTHER SUITABLE METHODS TO ENSURE EXISTING REINFORCEMENT IS NOT DAMAGED. HOLE DIAMETER SHALL BE AS REQUIRED BY MANUFACTURER. LOCATE EXISTING REINFORCING BARS (AS REQUIRED USING X-RAY) PRIOR TO DRILLING HOLES. DO NOT DAMAGE EXISTING REINFORCING. METHOD OF LOCATING EXISTING REINFORCING BARS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. ALL MIS-DRILLED OR UNACCEPTABLE HOLES SHALL BE GROUTED SOLID.
3. JOB TESTING AND INSPECTION: CONTINUOUS SPECIAL INSPECTION OF ALL ANCHOR AND DOWEL INSTALLATION IS REQUIRED. TESTING SHALL BE AS FOLLOWS:
A. THREADED RODS: TEST FIRST 5 INSTALLED RODS OF EACH SIZE TO TENSION PROOF LOAD SHOWN ON EPOXY ANCHOR SCHEDULE. IF ALL PASS, TEST 5% OF REMAINING RODS. IF ANY ROD FAILS, TEST ALL RODS UNTIL 10 SUCCESSFUL CONSECUTIVE TESTS ARE MADE, THEN RESUME 5% TESTING FREQUENCY. THE LOAD TEST SHALL BE PERFORMED IN THE PRESENCE OF THE PROJECT INSPECTOR.
B. HOLDOWN ANCHORS: TEST 100% OF ANCHORS USED TO TENSION PROOF LOAD PER TABLE ON TYPICAL HOLDOWN DETAIL.
C. REINFORCING BAR ANCHORS, #4 AND LARGER: TEST PER THREADED ROD REQUIREMENTS ABOVE.
D. REINFORCING BAR ANCHORS #4 AND SMALLER: NO TESTING REQUIRED. VISUAL OBSERVATION ONLY.
4. UNLESS OTHERWISE SHOWN IN THE DRAWINGS, ALL HOLES SHALL BE DRILLED PERPENDICULAR TO THE CONCRETE SURFACE.

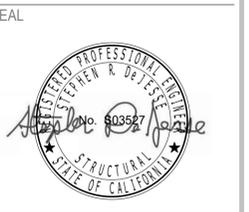
TESTS, INSPECTIONS AND OBSERVATIONS NOTES

- 1. TESTS AND INSPECTIONS SHALL BE PROVIDED FOR ALL ITEMS AS REQUIRED BY THE CALIFORNIA BUILDING CODE.
2. SEE STATEMENT OF SPECIAL INSPECTIONS, WHEN INCLUDED, FOR SPECIAL INSPECTION REQUIREMENTS.
3. THE FOLLOWING ITEMS SHALL HAVE SPECIAL INSPECTION.
A. ALL STRUCTURAL WELDING
B. NAILING OF PLYWOOD OR OSB WALLS AND DIAPHRAGMS WHERE NAIL SPACING IS 4 INCHES ON CENTER OR LESS
C. SEISMIC STRAPS, CLIPS AND TIE-DOWN SYSTEMS
D. POST INSTALLED ANCHORS IN CONCRETE - EXPANSION ANCHORS, EPOXY ANCHORS, ETC.
4. IN ADDITION TO SPECIAL INSPECTIONS, THE FOLLOWING SPECIFIED ITEMS SHALL HAVE PERIODIC STRUCTURAL OBSERVATION BY THE STRUCTURAL ENGINEER OF RECORD:
A. REINFORCING STEEL
B. NAILING OF PLYWOOD ON WALLS, FLOORS AND ROOF
C. SEISMIC STRAPS, CLIPS AND TIE-DOWN SYSTEMS
5. THE OWNER SHALL BE RESPONSIBLE FOR RETAINING AN INDEPENDENT TESTING AND INSPECTION LABORATORY TO PERFORM ALL REQUIRED TESTING AND INSPECTIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE TESTING AND INSPECTION LABORATORY WITH CONSTRUCTION SCHEDULES TO ENSURE PROPER COORDINATION OF WORK.

THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OR INSPECTOR A MINIMUM OF 48 HOURS (EXCLUDING WEEKEND DAYS) PRIOR TO THE TIME OF A REQUIRED INSPECTION.

NOLL & TAM ARCHITECTS

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CITY OF BERKELEY ECHO LAKE CAMP ACCESSIBILITY UPGRADES

7 Echo Lakes Rd, Echo Lake, CA 95721

CONSTRUCTION DRAWINGS

Table with 2 columns: ISSUE DATE (02/03/2023), N&T JOB #, REVISIONS (DATE, DESCRIPTION).

GENERAL NOTES

SHEET NUMBER
S1.00

SEAL



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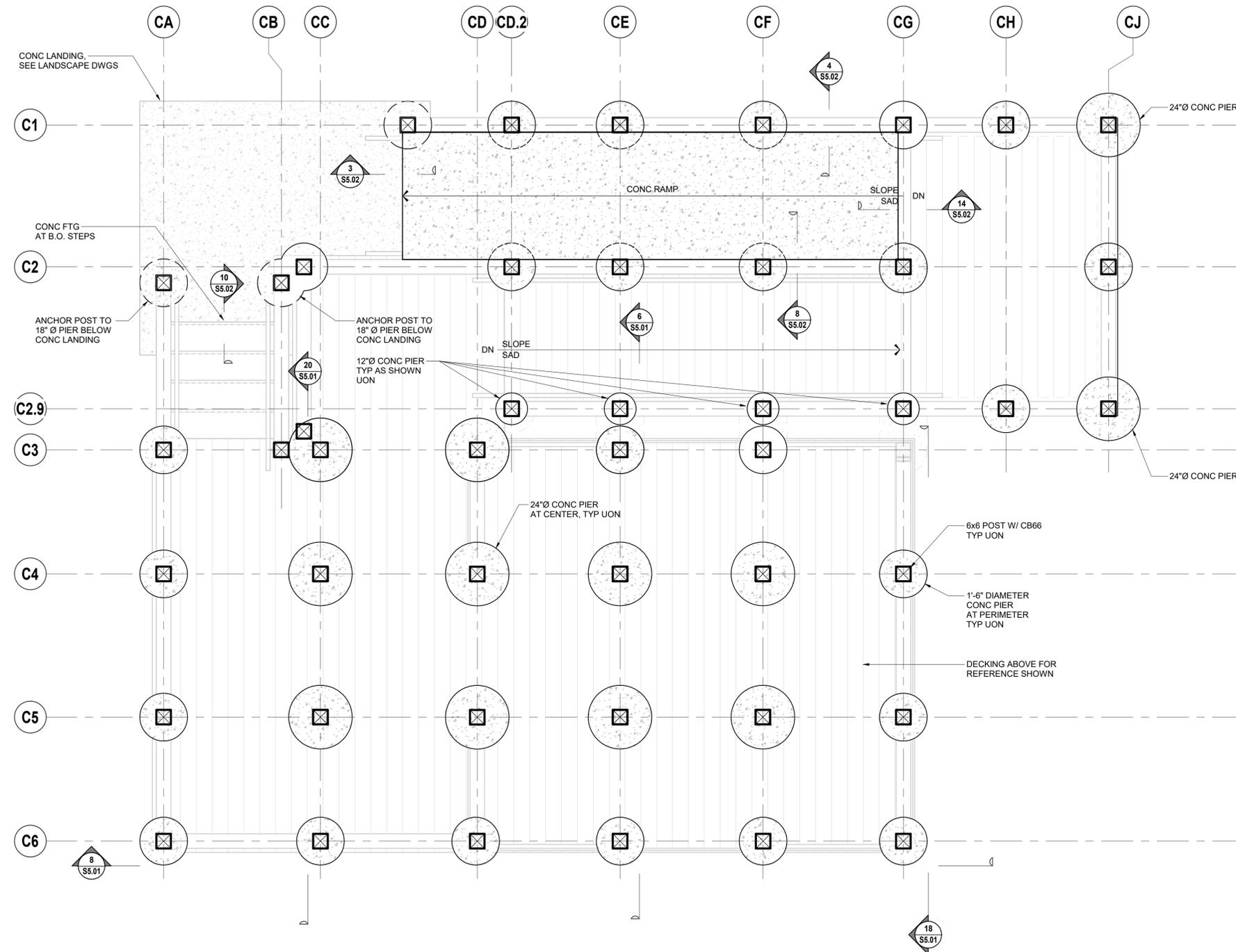
**CONSTRUCTION
DRAWINGS**

ISSUE DATE 02/03/2023

N&T JOB #

REVISIONS

DATE	DESCRIPTION



1 FOUNDATION PLAN - ACCESSIBLE TENT CABIN
S2.32 1/2" = 1'-0"

SHEET TITLE
**FOUNDATION PLAN -
ACCESSIBLE CABIN**

SHEET NUMBER
S2.32

SEAL



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DRAWINGS**

ISSUE DATE 02/03/2023

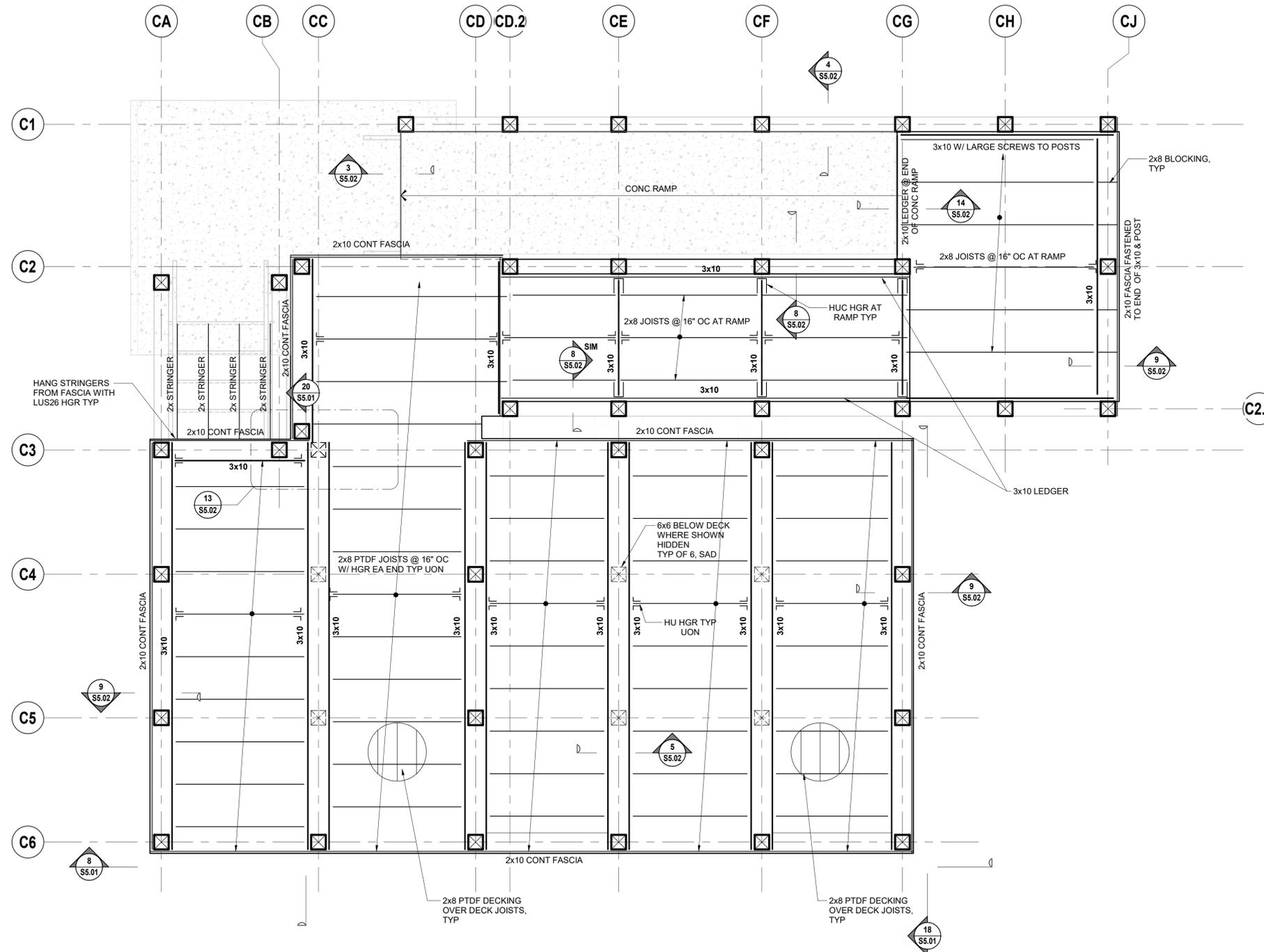
N&T JOB #

REVISIONS

DATE	DESCRIPTION

SHEET TITLE
DECK FRAMING PLAN - ACCESSIBLE CABIN

SHEET NUMBER
S2.33



1
S2.33 **DECK FRAMING PLAN - ACCESSIBLE TENT CABIN**
1/2" = 1'-0"

SEAL



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REVISIONS

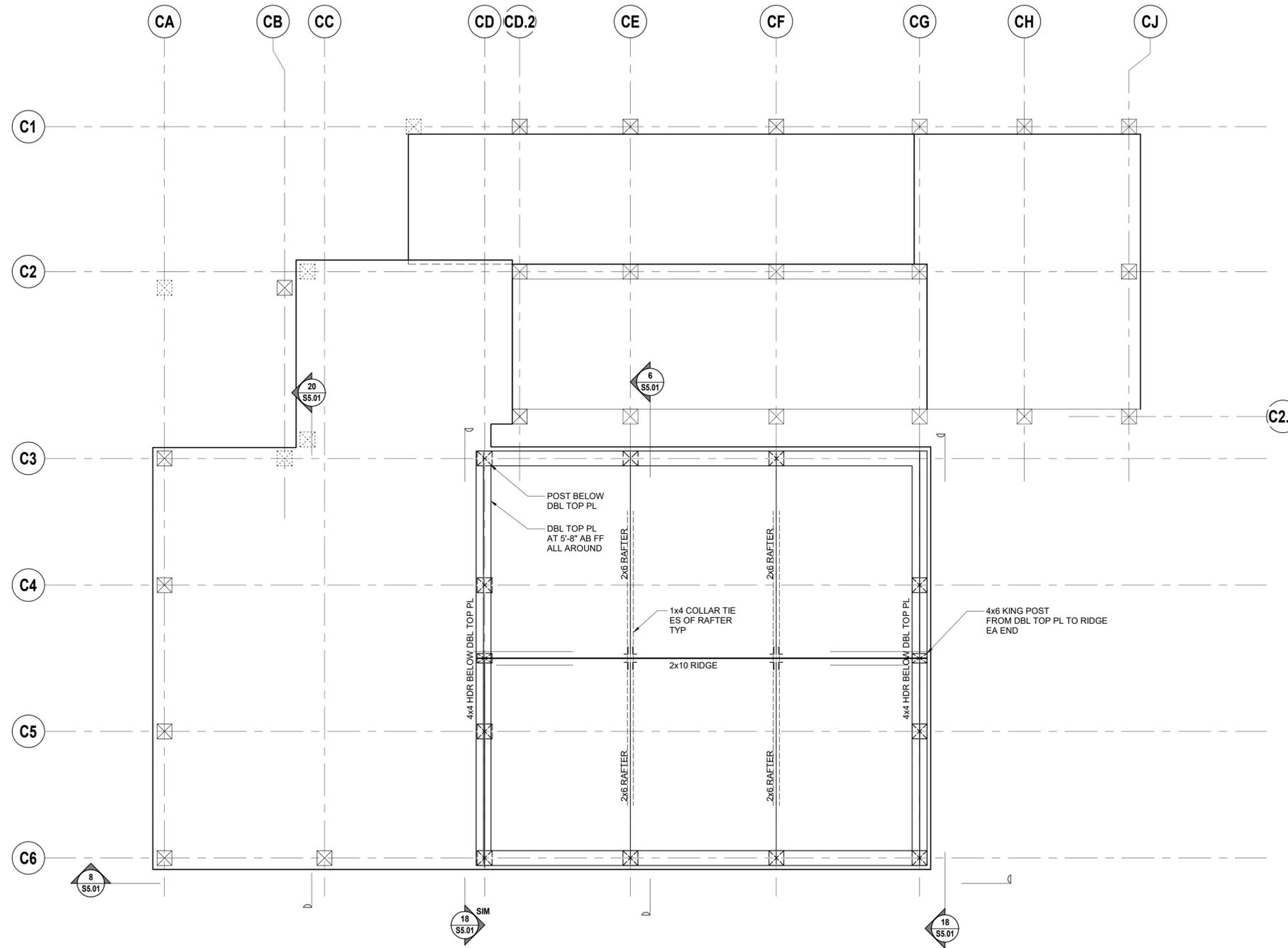
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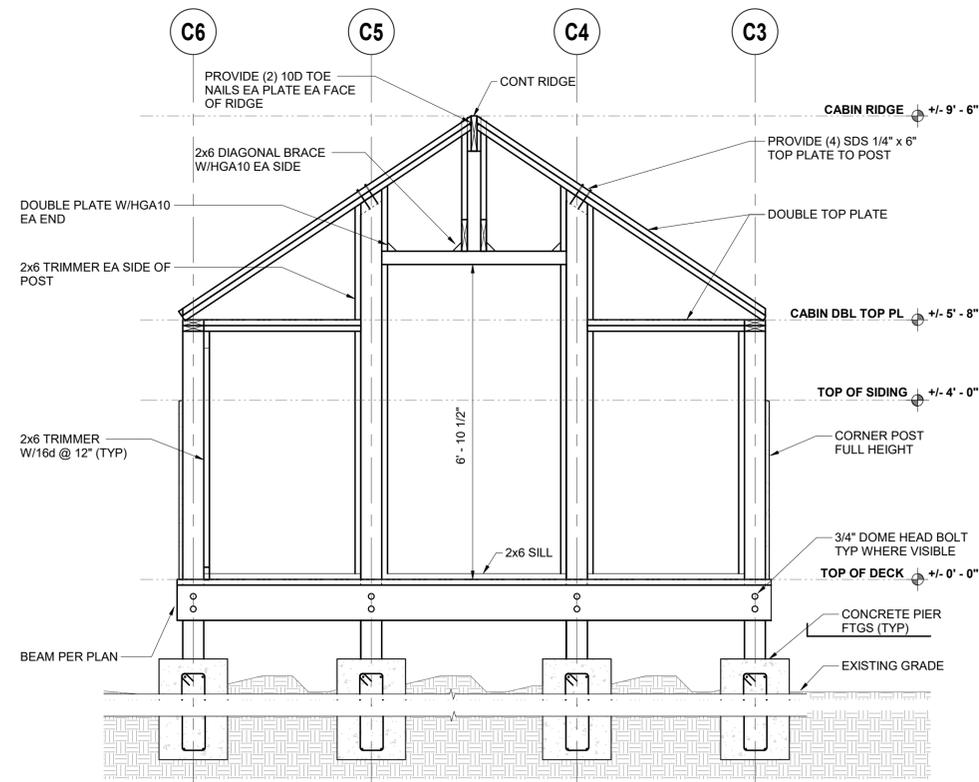
**ROOF FRAMING PLAN
- ACCESSIBLE CABIN**

SHEET NUMBER

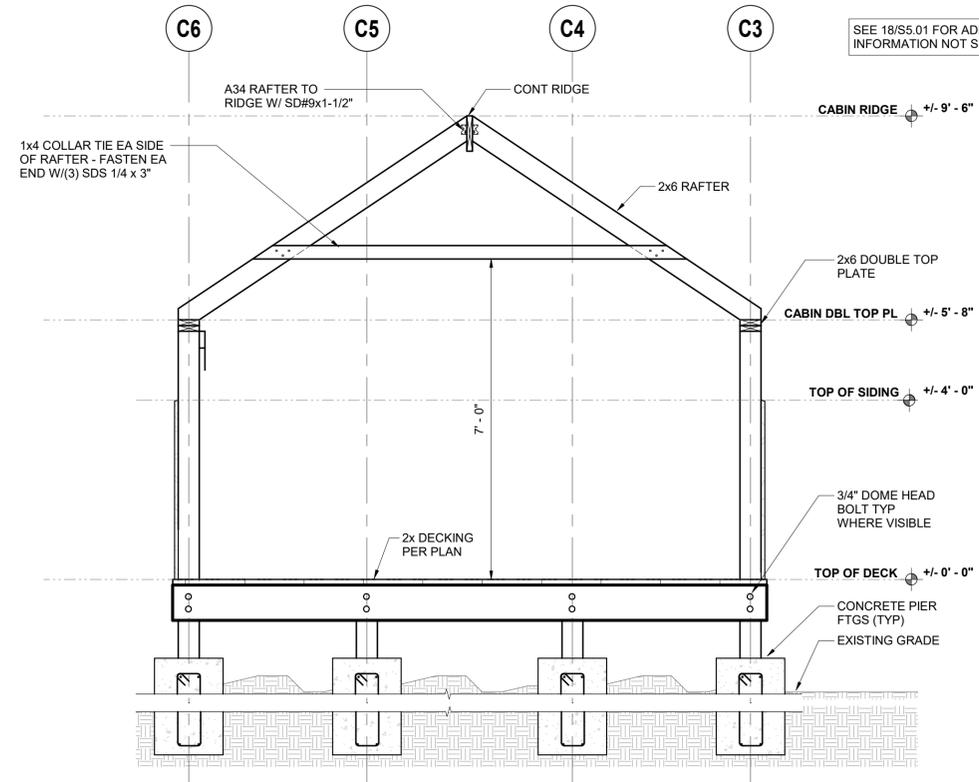
S2.34



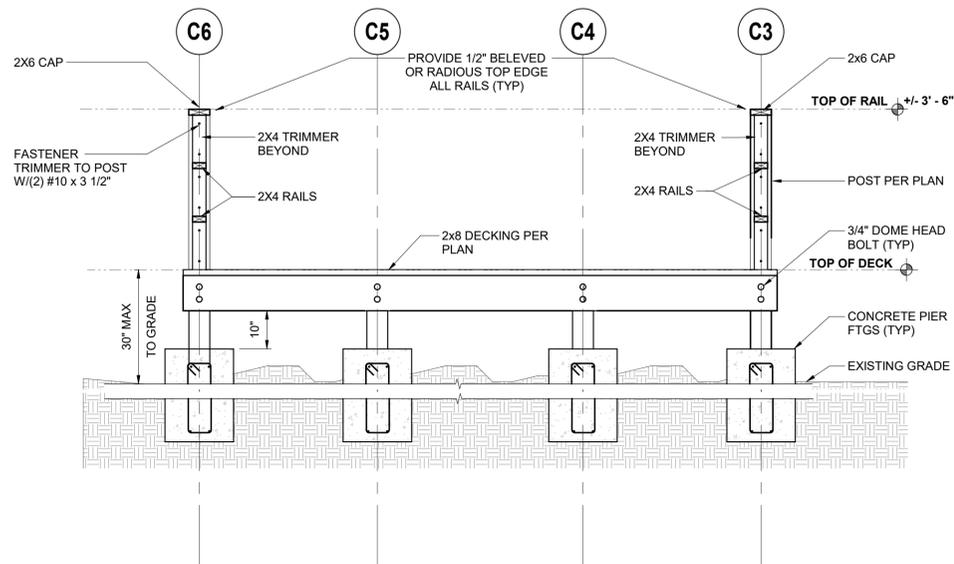
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S2.34
ROOF FRAMING PLAN - ACCESSIBLE TENT CABIN
1/2" = 1'-0"



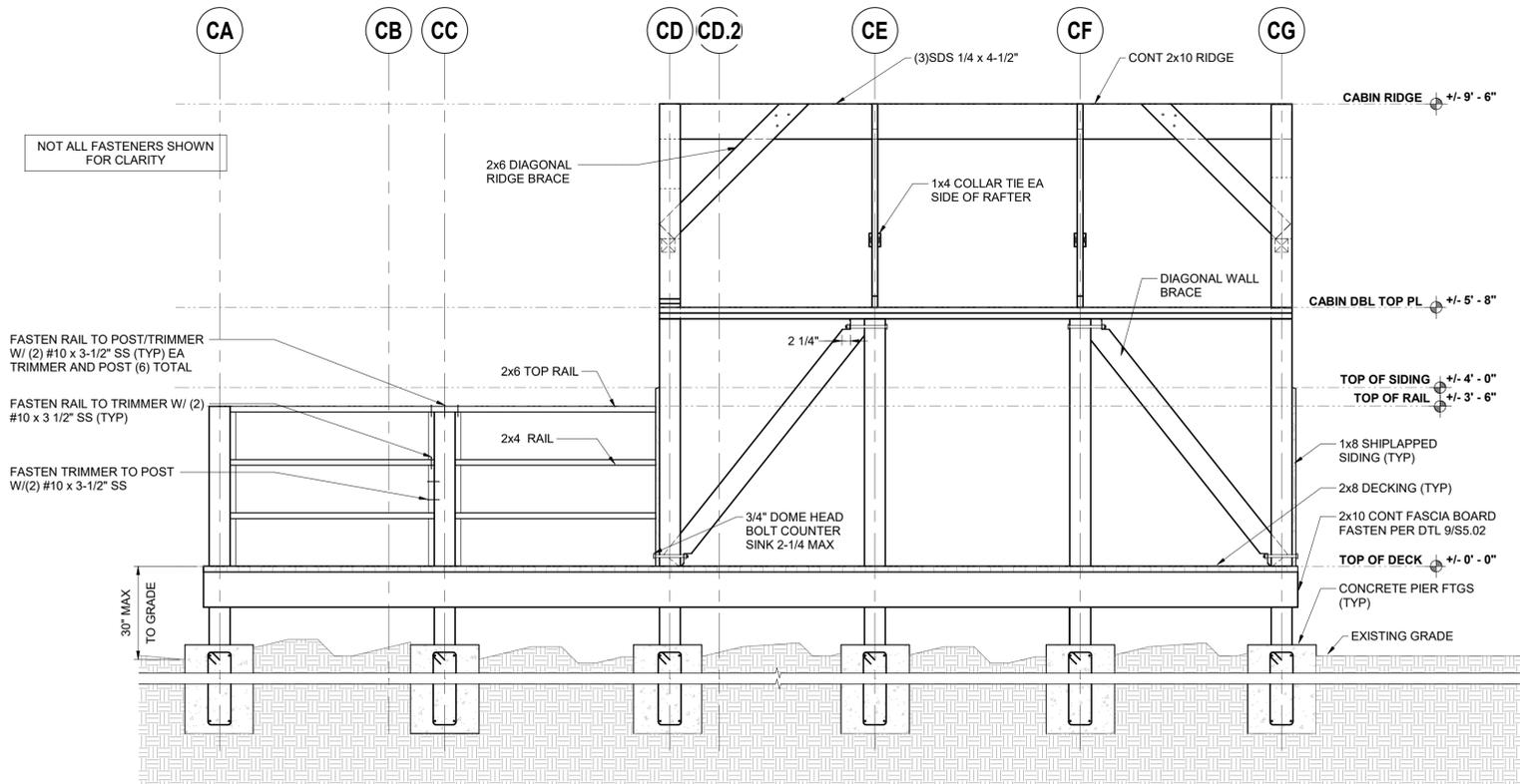
18 BACK WALL FRAMING SECTION
 S5.01 1/2" = 1'-0"



6 FRAMING SECTION
 S5.01 1/2" = 1'-0"



20 DECK SECTION
 S5.01 1/2" = 1'-0"



8 SIDE ELEVATION - GRID LINE C6
 S5.01 1/2" = 1'-0"



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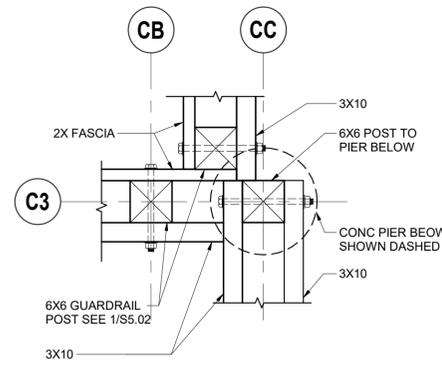
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CONSTRUCTION DRAWINGS

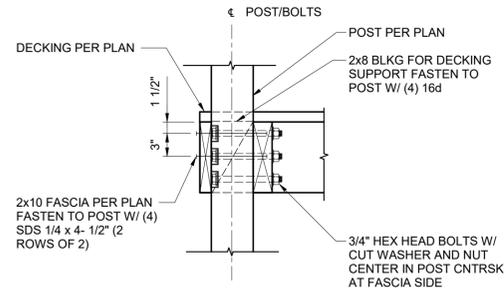
ISSUE DATE	02/03/2023
N&T JOB #	
REVISIONS	
DATE	DESCRIPTION

SHEET TITLE
**SECTIONS-
 ACCESIBLE TENT
 CABIN**

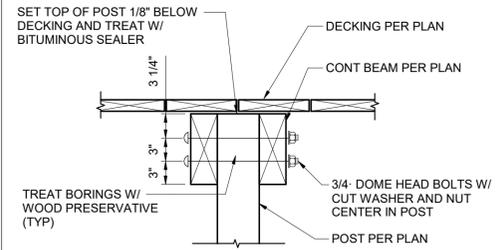
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S5.01



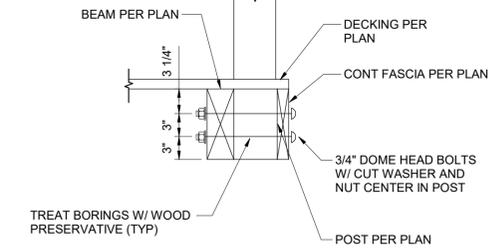
13 FRAMING PLAN
S5.02 1" = 1'-0"



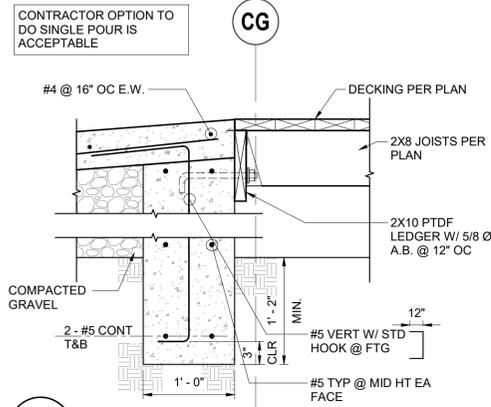
9 DECK FRAMING AT CONT POST
S5.02 1" = 1'-0"



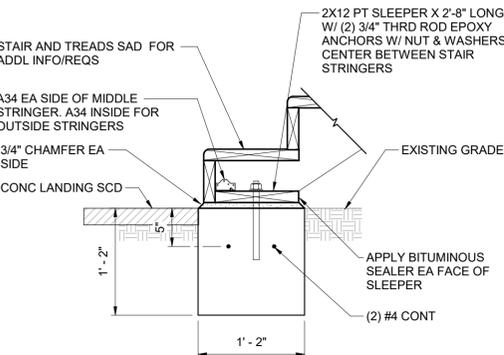
5 TYPICAL BEAM CONNECTION
S5.02 1" = 1'-0"



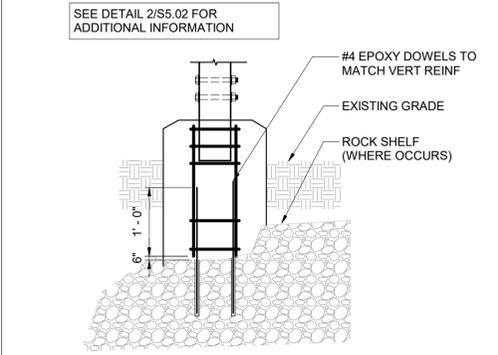
1 INTERIOR HANDRAIL POST SUPPORT
S5.02 1" = 1'-0"



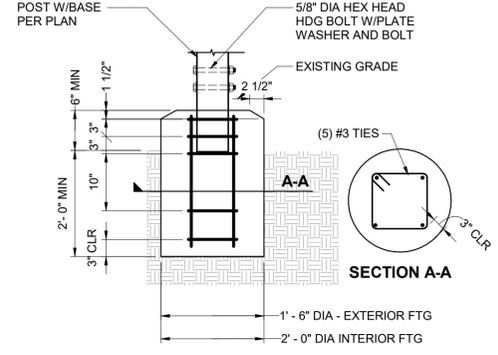
14 SECTION
S5.02 1" = 1'-0"



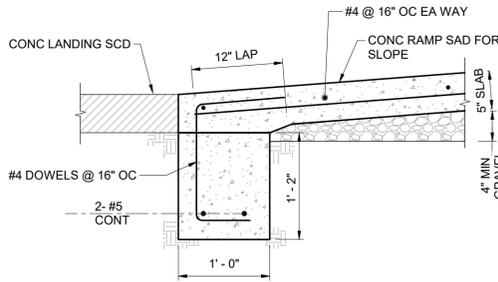
10 LANDING AT STAIR FOOTING
S5.02 1" = 1'-0"



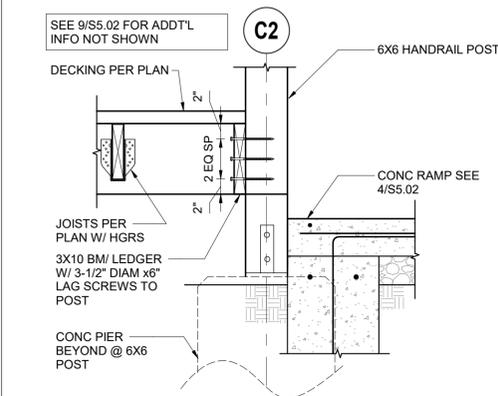
6 PIER FOOTING AT OBSTRUCTON
S5.02 3/4" = 1'-0"



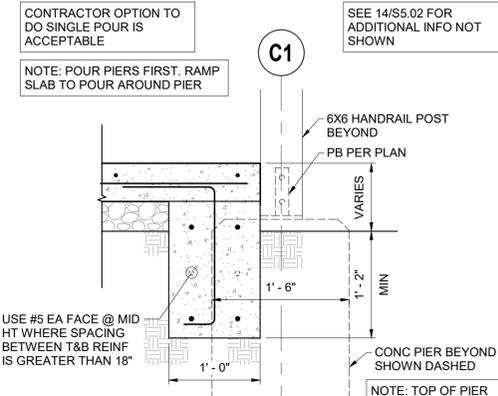
2 TYPICAL PIER FOOTING
S5.02 3/4" = 1'-0"



3 SECTION
S5.02 1" = 1'-0"



8 SECTION
S5.02 1" = 1'-0"



4 FOOTING SECTION
S5.02 1" = 1'-0"



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SHEET TITLE
DETAILS

SHEET NUMBER

S5.02

FILE LOCATION: G:\shared drives\01_projects\Noll and Tam_261826.77 - Berkeley Echo Camp\05_Drawings\01_Elect\1826.77 - E000 - GENERAL INFORMATION.dwg
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ABBREVIATIONS			
A	AMPERE	EMT	ELECTRICAL METALLIC TUBING
ABV	ABOVE	EOL	END OF LINE RESISTOR
AF	AMPERE FRAME, AMPERE FUSE	EQP	EQUIPMENT
AFF	ABOVE FINISHED FLOOR	FA	FIRE ALARM
AIC	AMPERE INTERRUPTING CAPACITY	FACP	FIRE ALARM CONTROL PANEL
ARCH	ARCHITECTURAL	(F)	FUTURE
AS	AMPERE SWITCH	FIN	FINISH
AT	AMPERE TRIP	FLR	FLOOR
ATS	AUTOMATIC TRANSFER SWITCH	G, GND	GROUND
BKR	BREAKER	GRC	GALVANIZED RIGID CONDUIT
BLDG	BUILDING	HGT	HEIGHT
C	CONDUIT	HP	HORSEPOWER
CATV	CABLE TELEVISION	IC	INTERCOM
CB	CIRCUIT BREAKER	IDF	INTERMEDIATE DISTRIBUTION FRAME
CBC	CALIFORNIA BUILDING CODE	IMC	INTERMEDIATE METAL CONDUIT
CD	CANDELA	INFO	INFORMATION
CEC	CALIFORNIA ELECTRICAL CODE	JB	JUNCTION BOX
CFC	CALIFORNIA FIRE CODE	KAIC	KILOAMPERE INTERRUPTING CAPACITY
CKT	CIRCUIT	KV	KILOVOLT
CL	CENTER LINE	KVA	KILOVOLT AMPERE
CLG	CEILING	KW	KILOWATT
CO	CONDUIT ONLY	LTG	LIGHTING
COMM	COMMUNICATIONS	LV	LOW VOLTAGE
CSFM	CALIFORNIA STATE FIRE MARSHALL	MAX	MAXIMUM
CTR	CENTER	KCMIL	THOUSAND CIRCULAR MILS
(D)	DEMOLISH	MDF	MAIN DISTRIBUTION FRAME
DET	DETAIL	MECH	MECHANICAL
DIM	DIMENSION	MH	MANHOLE
DIST	DISTRIBUTION	MIN	MINIMUM
DP	DISTRIBUTION PANEL	MTD	MOUNTED
DWG	DRAWING	MTG	MOUNTING
(E)	EXISTING	NC	NORMALLY CLOSED
ELEC	ELECTRICAL	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
EM	EMERGENCY		
NIC	NOT IN CONTRACT		
NIEC	NOT IN ELECTRICAL CONTRACT		
NO	NORMALLY OPEN		
NTS	NOT TO SCALE		
NUM.#	NUMBER		
OC	ON CENTER		
P	POLE		
PA	PUBLIC ADDRESS		
PB	PULL BOX		
PF	POWER FACTOR		
PH	PHASE		
PNL	PANEL		
PVC	POLYVINYL CHLORIDE		
(R)	EXISTING TO BE RELOCATED		
REQD	REQUIRED		
REQT(S)	REQUIREMENT(S)		
RM	ROOM		
RSC	RIGID STEEL CONDUIT		
SAD	SEE ARCHITECTURAL DOCUMENTS		
SHT	SHEET		
SPD	SURGE PROTECTIVE DEVICE		
STC	SIGNAL TERMINAL CABINET		
SW	SWITCH		
SWBD	SWITCHBOARD		
T24	CALIFORNIA ENERGY CODE		
TC	TERMINAL CABINET		
TEL	TELEPHONE		
TYP	TYPICAL		
UON	UNLESS OTHERWISE NOTED		
V	VOLT		
W	WATT, WIRE		
WP	WEATHERPROOF		
XFMR	TRANSFORMER		

POWER DISTRIBUTION SYMBOLS (PLANS)	
	PANELBOARD - FLUSH MOUNTED.
	PANELBOARD - SURFACE MOUNTED.
	DISTRIBUTION PANEL
	SWITCHBOARD
	MOTOR
	EQUIPMENT WITHOUT MOTOR
	FUSED DISCONNECT SWITCH
	MOTOR RATED SWITCH
	GROUND ROD
	EQUIPMENT TAG - SEE EQUIPMENT SCHEDULE "CH" = EQUIPMENT TYPE "2" = UNIQUE IDENTIFIER

RECEPTACLE AND POWER SYMBOLS					
POKE THRU	FLR	WALL	CLG	AT HGT	
					DUPLEX RECEPTACLES
					QUADRUPLEX RECEPTACLES
					GFCI DUPLEX RECEPTACLES
					GFCI QUADRUPLEX RECEPTACLES
					JUNCTION BOX

TYPICAL RECEPTACLE NOMENCLATURE

R1-3 } "R1" DENOTES PANEL NAME
 "3" DENOTES CIRCUIT NUMBER
 R1-3 +Y" } "X" DENOTES SPECIAL RECEPTACLE TYPE (IF APPLICABLE)
 "Y" DENOTES MOUNTING HEIGHT (IF APPLICABLE)
 R1-3 X

- NOTES
1. WALL MOUNTED DEVICES SHALL BE MOUNTED AT 18" AFF TO BOTTOM OF DEVICE, UON.
 2. WALL MOUNTED DEVICES SHOWN AT A DEFINED HEIGHT SHALL BE MOUNTED WITH THE BOTTOM AT 1" ABOVE COUNTER BACKSPLASH, UON.
 3. SIZE JUNCTION BOXES AS REQ'D PER CODE. TAPE AND TAG WIRES. COORDINATE WITH EQUIPMENT AND PROVIDE FLEX CONDUIT AND/OR RECEPTACLES AS REQUIRED TO CONNECT EQUIPMENT.

NEW VS. EXISTING	
	(N) CONDUIT - CONCEALED IN WALLS OR CEILING.
	(E) CONDUIT - CONCEALED IN WALLS OR CEILING.
	(E) CONDUIT - TO BE REMOVED.
	(N) DEVICE OR EQUIP (EXAMPLE)
	(E) DEVICE OR EQUIP (EXAMPLE)
	(E) DEVICE OR EQUIP TO BE REMOVED (EXAMPLE)

WIRING, CONDUIT, AND RACEWAY SYMBOLS	
	CONDUIT - CONCEALED IN WALLS OR CEILING.
	CONDUIT - EXPOSED.
	CONDUIT - UNDERGROUND / DIRECT BURIAL.
	CONDUIT HOME RUN TO PANEL, TERMINAL CABINET, ETC. SIZE CONDUIT ACCORDING TO SPECIFICATIONS AND APPLICABLE CODES. ALL 20A/1P BRANC CIRCUITS SHALL BE #12 AWG WIRES WITH #12 AWG NEUTRALS AND GROUNDS RUN A MAXIMUM OF 3 BRANCH CIRCUITS PER CONDUIT.
	CONDUIT - FLEX WITH CONNECTION.
	CONDUIT - STUB UP.
	CONDUIT - STUB DOWN.
	CONDUIT - EMERGENCY POWER SYSTEM.
	CONDUIT - CAPPED.
	CONDUIT - CONTINUATION.
	IN-GRADE PULL BOX. "Y" INDICATES UNIQUE BOX IDENTIFIER. "X" INDICATES SYSTEM: P = POWER C = COMMUNICATIONS F = FIRE ALARM L = LIGHTING

- OWNERSHIP OF INSTRUMENTS OF SERVICE**
1. ALL REPORTS, DRAWINGS, SPECIFICATIONS, COMPUTER FILES, FIELD DATA, NOTES AND OTHER DOCUMENTS AND INSTRUMENTS PREPARED BY THE CONSULTANT AS INSTRUMENTS OF SERVICE SHALL REMAIN THE PROPERTY OF THE CONSULTANT. THE CONSULTANT SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING THE COPYRIGHT THERETO.
 2. THE CLIENT ACKNOWLEDGES THE CONSULTANT'S CONSTRUCTION DOCUMENTS, INCLUDING ELECTRONIC FILES, AS INSTRUMENTS OF PROFESSIONAL SERVICE. NEVERTHELESS, THE FINAL CONSTRUCTION DOCUMENTS PREPARED UNDER THIS AGREEMENT SHALL BECOME THE PROPERTY OF THE CLIENT UPON COMPLETION OF THE SERVICES AND PAYMENT IN FULL OF ALL MONIES DUE TO THE CONSULTANT. THE CLIENT SHALL NOT REUSE OR MAKE ANY MODIFICATION TO THE CONSTRUCTION DOCUMENTS WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF THE CONSULTANT. THE CLIENT AGREES, TO THE FULLEST EXTENT PERMITTED BY LAW, TO INDEMNIFY AND HOLD HARMLESS THE CONSULTANT, ITS OFFICERS, DIRECTORS, EMPLOYEES AND SUBCONSULTANTS (COLLECTIVELY, CONSULTANT) AGAINST ANY DAMAGES, LIABILITIES OR COSTS, INCLUDING REASONABLE ATTORNEY'S FEES AND DEFENSE COSTS, ARISING FROM OR ALLEGEDLY ARISING FROM OR IN ANY WAY CONNECTED WITH THE UNAUTHORIZED REUSE OR MODIFICATION OF THE CONSTRUCTION DOCUMENTS BY THE CLIENT OR ANY PERSON OR ENTITY THAT ACQUIRES OR OBTAINS THE CONSTRUCTION DOCUMENTS FROM OR THROUGH THE CLIENT WITHOUT THE WRITTEN AUTHORIZATION OF THE CONSULTANT.

- CODES AND STANDARDS**
1. 2022 CALIFORNIA BUILDING CODE (CBC), VOLUMES #1 AND #2 (PART 2, TITLE 24, CCR).
 2. 2022 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR).
 3. 2022 CALIFORNIA MECHANICAL CODE (CMC) (PART 4, TITLE 24, CCR).
 4. 2022 CALIFORNIA PLUMBING CODE (CPC) (PART 5, TITLE 24, CCR).
 5. 2022 CALIFORNIA ENERGY CODE (PART 6, TITLE 24, CCR).
 6. 2022 CALIFORNIA FIRE CODE (CFC) (PART 9, TITLE 24, CCR).
 7. 2022 CALIFORNIA GREEN CODE (PART 11, TITLE 24, CCR).
 8. 2022 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR).
 9. 2016 NFPA 72 NATIONAL FIRE ALARM CODE.
 10. 2015 NFPA 720 STANDARDS FOR CARBON MONOXIDE DETECTION AND WARNING.
 11. 2016 NFPA 13 STANDARDS FOR FIRE SPRINKLER SYSTEMS.
 12. ADA STANDARDS FOR ACCESSIBLE DESIGN: ADA ACCESSIBILITY GUIDELINES (ADAAG) 28, PART 36 APPENDIX A.
 13. ADA STANDARDS FOR ACCESSIBLE DESIGN - CODE OF REGULATIONS (INCLUDING AMENDMENTS).

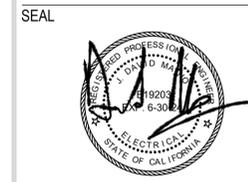
DRAWING INDEX	
E000	GENERAL INFORMATION
ES100	SITE PLAN
ELP300	LIGHTING AND POWER PLAN
E700	SCHEDULES - PANELS
E800	DETAILS

GENERAL SYMBOLS	
	PLAN OR DETAIL DESIGNATION "3" DENOTES DETAIL OR PLAN NUMBER "E2.1" DENOTES SHEET NUMBER. "-" DENOTES SAME SHEET.
	SECTION OR ELEVATION DESIGNATION "2" DENOTES SECTION OR ELEVATION NUMBER "E1.0" DENOTES SHEET NUMBER. "-" DENOTES SAME SHEET.
	SHEET NOTE TAG - SEE APPLICABLE NOTE ON SAME SHEET
	FEEDER SCHEDULE TAG, SEE APPLICABLE SCHEDULE
	CONDUIT SCHEDULE TAG, SEE APPLICABLE SCHEDULE

- GENERAL NOTES**
- A. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO BIDDING AND ALLOW FOR ALL FIELD CONDITIONS. OBTAIN CONTRACT DOCUMENTS FOR ALL OTHER TRADES AND BE RESPONSIBLE FOR ALL ELECTRICAL WORK NOTED AND CALLED OUT ON THE CONTRACT DOCUMENTS. COORDINATE ELECTRICAL WORK WITH ALL OTHER TRADES ON PROJECT. COORDINATE ALL CONDUIT RUNS, ELECTRICAL EQUIPMENT AND PANEL LOCATIONS WITH ALL OTHER WORK TO AVOID CONFLICTS.
 - B. COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS. MATERIALS AND EQUIPMENT SHALL BE U.L. AND CALIFORNIA STATE FIRE MARSHAL (CSFM) LISTED AND LABELED FOR THE APPLICATION.
 - C. BEFORE BEGINNING CONSTRUCTION, PROVIDE TO THE ARCHITECT A CONSTRUCTION SCHEDULE OF ELECTRICAL WORK. THE CONSTRUCTION SCHEDULE SHALL IDENTIFY ALL SIGNIFICANT MILESTONES WITH COMPLETION DATES.
 - D. OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTION FEES REQUIRED BY THIS CONTRACT WORK, UNLESS OTHERWISE NOTED.
 - E. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONS AND PROPERTY AND SHALL PROVIDE INSURANCE COVERAGE AS NECESSARY FOR LIABILITY, PERSONAL, PROPERTY DAMAGE, TO FULLY PROTECT THE OWNER, ARCHITECT AND ENGINEER FROM ANY AND ALL CLAIMS RESULTING FROM THIS WORK.
 - F. MAINTAIN RECORD DRAWINGS AT THE PROJECT SITE INDICATING ALL MODIFICATIONS TO ELECTRICAL SYSTEMS. AT THE CONCLUSION OF THE PROJECT, PROVIDE ACCURATE "AS-BUILT" DRAWINGS ACCEPTABLE TO THE ARCHITECT.
 - G. ALL MATERIALS PROVIDED FOR THE PROJECT SHALL BE NEW, UNLESS OTHERWISE NOTED. PROVIDE ALL INCIDENTAL MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.
 - H. ALL ELECTRICAL EQUIPMENT INSTALLED OUTDOORS SHALL BE WEATHERPROOF. EXTERIOR CONDUIT RUNS INTO BUILDINGS SHALL BE INSTALLED WITH FLASHING, CAULKED AND SEALED. CONDUITS FOR EXTERIOR ELECTRICAL DEVICES SHALL BE RUN INSIDE BUILDING, UNLESS OTHERWISE NOTED. UNDERGROUND AND EXTERIOR CONDUIT SHALL HAVE WATERTIGHT FITTINGS.
 - I. ALL CONDUITS SHALL BE A MINIMUM 3/4," UNLESS OTHERWISE NOTED. POWER AND LIGHTING BRANCH CIRCUITS SHALL HAVE A MINIMUM TWO (2) #12 AWG AND ONE (1) #12 AWG GROUND TYPE THWN/THHN. ALL POWER AND FIRE ALARM WIRING SHALL BE RUN IN CONDUIT. THE USE OF ROMEX (NMC) OR BX (AC) CABLE IS NOT PERMITTED. PROVIDE ALL WIRES AND WIRE SIZES REQUIRED BY LATEST CODES.
 - J. ALL WIRE SIZING SHOWN ON THE CONSTRUCTION DOCUMENTS UTILIZES ASSUMED ROUTING AND CIRCUIT LENGTHS TO DETERMINE VOLTAGE DROP. CONTRACTOR SHALL VERIFY ALL CIRCUIT LENGTHS WITH ACTUAL FIELD CONDITIONS AND SHALL PROVIDE INCREASED WIRE AND CONDUIT SIZES AS REQUIRED TO LIMIT FEEDERS TO A MAXIMUM OF 2% VOLTAGE DROP AND BRANCH CIRCUITRY TO A MAXIMUM OF 3% VOLTAGE DROP.
 - K. ALL POWER CIRCUITS SHALL HAVE A DEDICATED NEUTRAL. SHARED NEUTRALS WITH TIE-BARS AT THE BREAKERS IN THE PANEL SHALL NOT BE ALLOWED.
 - L. CONDUITS SHALL NOT BE USED AS A GROUND PATH. ALL CONDUITS SHALL CONTAIN A GROUNDING CONDUCTOR, SIZED PER NEC/CEC REQUIREMENTS.
 - M. THERE SHALL BE NO ROOF PENETRATIONS WITHIN 5'-0" OF FIRE RATED OR AREA SEPARATION WALLS. VERIFY EXACT LOCATIONS OF THESE WALLS WITH ARCHITECTURAL DRAWINGS.
 - N. NOTE THAT BRANCH CIRCUIT WIRING IS NOT SHOWN. CIRCUIT NUMBERS ARE SHOWN ADJACENT TO ALL OUTLETS/FIXTURES/DEVICES. PROVIDE ALL BRANCH CIRCUIT WIRING BASED ON CIRCUIT NUMBERS SHOWN TO COMPLETE THE WIRING SYSTEM.
 - O. THE CONTRACTOR SHALL, PRIOR TO BID, FIELD VERIFY ALL REQUIREMENTS FOR MODIFYING THE EXISTING SECURITY, CATV, DATA, TELEPHONE, CLOCK, AND INTERCOM SYSTEMS TO ACCOMMODATE ADDITIONS NOTED. PROVIDE ALL MATERIALS NEEDED TO MAKE A FULLY OPERATIONAL SYSTEM AT THE CONCLUSION OF PROJECT WORK.
 - P. PROVIDE A PULL CORD IN EVERY EMPTY CONDUIT FOR USE IN FUTURE CONSTRUCTION. LABEL EACH END OF THE CONDUIT WITH TYPED, PERMANENT LABEL, TO IDENTIFY WHERE THE OPPOSING END TERMINATES.
 - Q. ALL EQUIPMENT VOLTAGES AND AMPACITY IS BASED ON THE INFORMATION PROVIDED BY OTHER DISCIPLINES AS PART OF THE CONTRACT DOCUMENTS. VERIFY ALL VOLTAGES AND AMPACITIES OF EQUIPMENT WITH GENERAL AND OTHER SUB-CONTRACTORS PRIOR TO ROUGH-IN AND PROVIDE PROVISIONS FOR CORRECT BREAKER, WIRING, AND CONDUIT SIZES BASED ON ACTUAL EQUIPMENT TO BE USED FOR THE PROJECT.
 - R. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE LOCATING ALL EXISTING UNDERGROUND SYSTEMS IN THE AREA OF UNDER GROUND WORK. REPAIR ALL DAMAGED SYSTEMS TO OWNERS SATISFACTION. MAINTAIN EXTREME CARE DURING TRENCHING AS EXISTING SYSTEMS ARE KNOWN TO EXIST IN THE AREA. THE DRAWINGS AND SPECIFICATIONS ARE FOR THE ASSISTANCE AND GUIDANCE OF THE CONTRACTOR. EXACT LOCATIONS, DISTANCES AND ELEVATIONS WILL BE GOVERNED BY ACTUAL CONDITIONS. COORDINATE THE CONTRACT DOCUMENTS AND FIELD CONDITIONS TO DETERMINE EXACT ROUTING AND FINAL TERMINATIONS FOR ALL WORK.
 - S. CONDUIT AND WIRING ARE SHOWN ON THESE PLANS DIAGRAMMATICALLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD TO SUIT SITE CONDITIONS.
 - T. SEISMIC ANCHORAGE OF ALL ELECTRICAL EQUIPMENT SHALL BE PROVIDED IN ACCORDANCE WITH TITLE 24, CBC SECTION 1632A.
 - U. PLANS SHALL BE APPROVED BY THE AUTHORITY HAVING JURISDICTION PRIOR TO BEGINNING WORK. SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO PURCHASE.
 - V. SUFFICIENT ACCESS AND WORKING SPACE SHALL BE PROVIDED AND MAINTAINED ABOUT ALL ELECTRIC EQUIPMENT TO PERMIT READY AND SAFE OPERATION AND MAINTENANCE OF SUCH EQUIPMENT PER CEC ARTICLE 110-26.
 - W. ALL CONTROLS, SWITCHES, AND ELECTRICAL RECEPTACLE OUTLETS SHALL BE NOT MORE THAN +48" AFF TO TOP OF THE OUTLET BOX, NOR LESS THAN +15" AFF TO BOTTOM OF OUTLET BOX PER CBC 11B-308.1

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CITY OF BERKELEY
ECHO LAKE
CAMP
ACCESSIBILITY
UPGRADES

7 Echo Lakes Rd, Echo Lake, CA 95721

CONSTRUCTION
DRAWINGS

ISSUE DATE: 02/03/2023
N&T JOB #
REVISIONS

DATE	DESCRIPTION

SHEET TITLE: **GENERAL INFORMATION**

SHEET NUMBER: **E000**

SHEET NOTES

1. PROVIDE (1) 1" CONDUIT FROM (E) PNL NUR TO NEW PULL BOX ADJACENT TO CABIN. STUB CONDUIT DOWN FROM PANEL UNDER THE NURSES STATION AND UNDERGROUND. ROUTE CONDUIT BETWEEN (E) TREES AND AVOID (E) ROOT SYSTEMS TO THE EXTENT POSSIBLE. PROVIDE CONDUIT FROM PULL BOX TO RECEPTACLE, AND ASSOCIATED WIRING, REFER TO DETAIL 1/EL300 FOR MORE INFORMATION.

GENERAL NOTES

- PROVISIONS SHALL BE MADE TO DISCONNECT EXISTING SERVICE EQUIPMENT AND RECONNECT NEW SERVICE EQUIPMENT WITH MINIMAL POWER DISRUPTION.
- CONCEAL ALL CONDUIT, UNLESS OTHERWISE NOTED.
- AREA MAY CONTAIN UNDERGROUND RACEWAY. SITE LOCATE ALL EXISTING UNDERGROUND RACEWAY IN THIS AREA BEFORE TRENCHING. MAINTAIN EXTREME CARE WHEN TRENCHING.
- COORDINATE EXACT LOCATIONS OF ALL ARCHITECTURAL, MECHANICAL, PLUMBING, LANDSCAPING AND CIVIL EQUIPMENT WITH ARCHITECTURAL, MECHANICAL, PLUMBING, LANDSCAPING AND CIVIL DRAWINGS.
- CIRCUIT ALL DEVICES ON THIS SHEET TO PANELBOARD NUR, UNLESS OTHERWISE NOTED.
- SIZE FUSES FOR ALL FUSED SWITCHES PER SUPPLIED EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
- CERTAIN FEEDER AND BRANCH CIRCUIT WIRE SIZES HAVE BEEN OVERSIZED TO COMPENSATE FOR VOLTAGE DROP. SPLICE WIRES TO COMPATIBLE SIZES FOR TERMINATION, ADJACENT TO EQUIPMENT CONNECT AS REQUIRED.
- CONTRACTOR SHALL SIZE ALL IN GRADE PULL BOXES PER CODE OR FOR THEIR CONVENIENCE FOR PULLING WIRE, WHICHEVER IS LARGER.

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**CITY OF BERKELEY
ECHO LAKE
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**CONSTRUCTION
DRAWINGS**

ISSUE DATE 02/03/2023

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DATE	DESCRIPTION

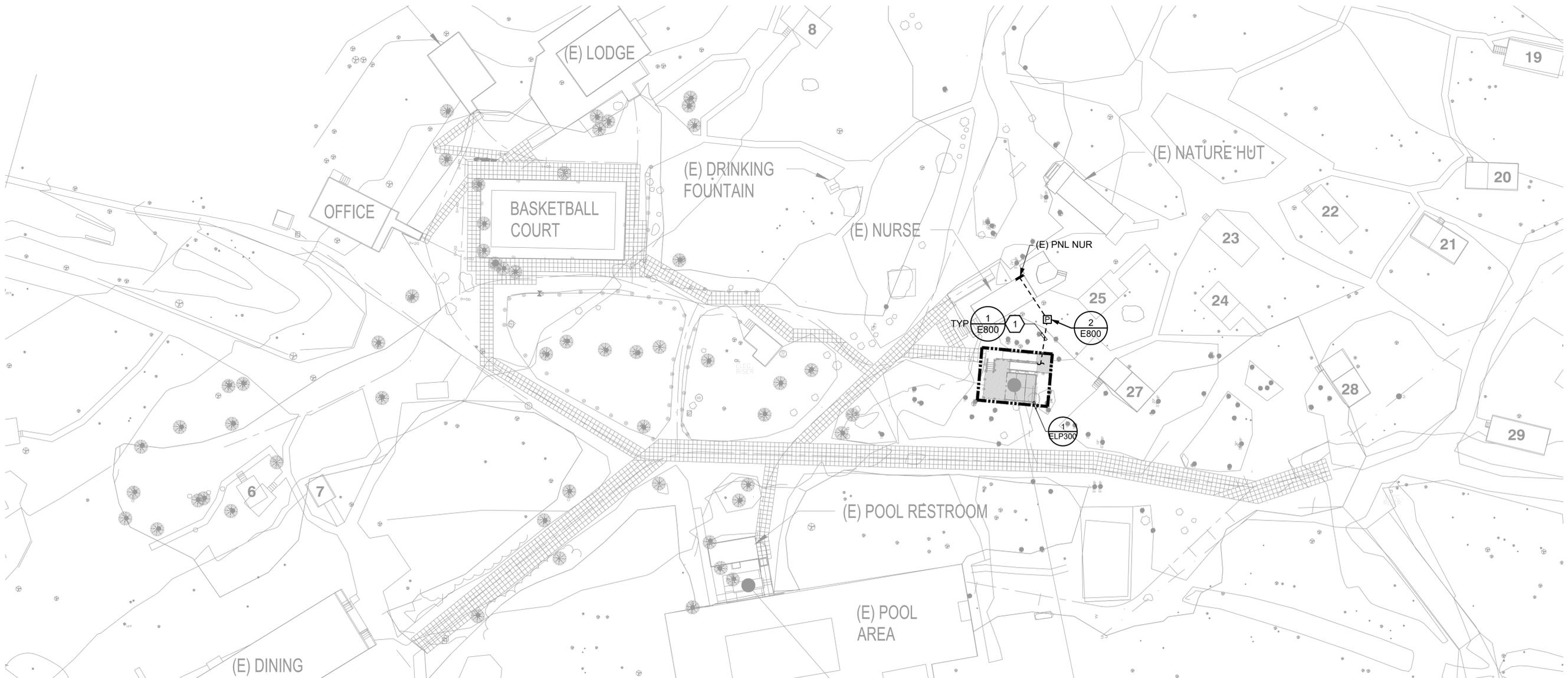
SHEET TITLE

**LIGHTING AND
POWER PLANS**

SHEET NUMBER

ES100

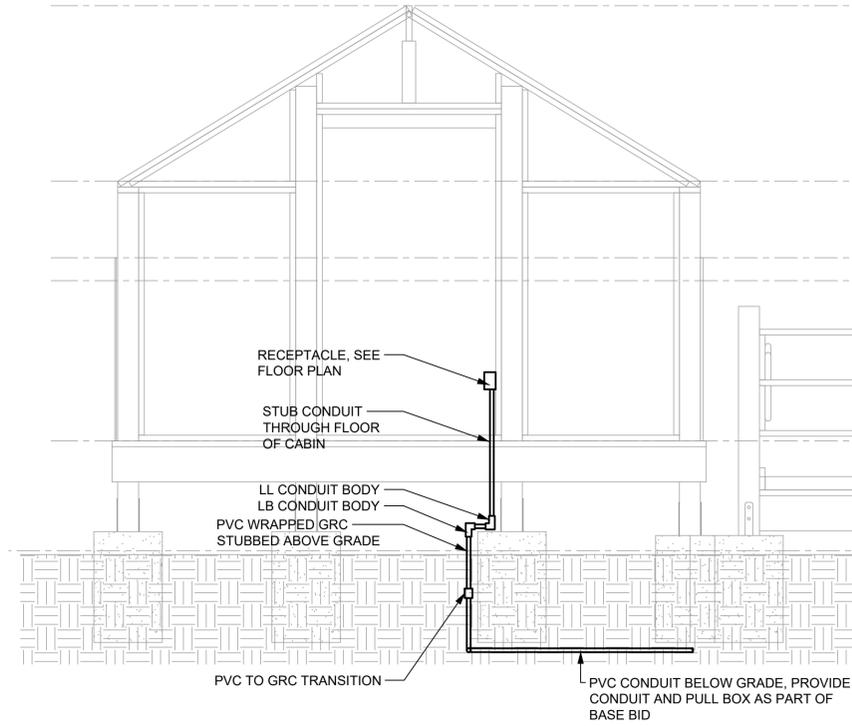
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LAST SAVED ON: 1/26/23 at 4:03pm, PLOTTED ON: 2/06/23 at 3:19pm



1 SITE PLAN
1" = 30'-0"

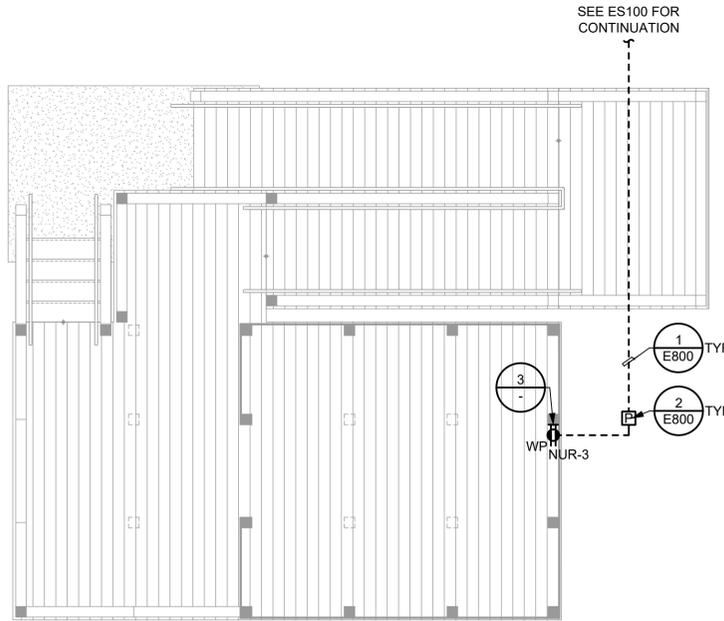


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3 CABIN CONDUIT DETAIL

1/2" = 1'-0"



1 CABIN LIGHTING AND POWER

1/4" = 1'-0"

GENERAL NOTES

- A. SEE ARCHITECTURAL, MECHANICAL, AND PLUMBING DOCUMENTS FOR EXACT PLACEMENT OF ALL LIGHT FIXTURES, EXPOSED CONTROL DEVICES, LIGHT SWITCHES, MECHANICAL, AND PLUMBING EQUIPMENT. VERIFY CEILING TYPE WITH ARCHITECTURAL DOCUMENTS AND COORDINATE TRIMS. PROVIDE ALL REQUIRED FIXTURE MOUNTING HARDWARE. COORDINATE FIXTURE TYPES WITH MOUNTING SURFACE PRIOR TO ORDERING.
- B. RUN ALL INTERIOR CONDUIT IN FINISHED INTERIOR AREAS CONCEALED UNLESS OTHERWISE NOTED.
- C. PROVIDE U.L. LISTED FIRE STOP ENCLOSURES FOR ALL RECESSED FIXTURES IN FIRE RATED CEILINGS.
- D. PROVIDE SINGLE PLATE WALL COVER FOR MULTIPLE SWITCHES. SEE DRAWINGS FOR NUMBER OF SWITCHES IN SPECIFIC LOCATIONS.
- E. MOUNT WALL MOUNTED OCCUPANCY SENSORS AT 8'-0" ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED.
- F. CIRCUIT ALL DEVICES ON THIS SHEET TO PANELBOARD RR, UNLESS OTHERWISE NOTED.
- G. SIZE FUSES FOR ALL MECHANICAL AND PLUMBING EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS.
- H. SEE EQUIPMENT SCHEDULE ELECTRICAL REQUIREMENTS FOR CIRCUITING OF EQUIPMENT AND REFER TO RISER DIAGRAMS AND DETAILS FOR ADDITIONAL INFORMATION ON WIRING, LAYOUT AND CONNECTIONS. SEE MECHANICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

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**CITY OF BERKELEY
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CONSTRUCTION DRAWINGS

ISSUE DATE 02/03/2023

N&T JOB #

REVISIONS

DATE	DESCRIPTION

SHEET TITLE

**LIGHTING AND
 POWER PLANS**

SHEET NUMBER

EL300

FILE LOCATION: G:\shared drives\01_projects\Noll and Tam_2611826.77 - Berkeley Echo Camp\05_Drawings\01_Elect\1826.77 - E700 - SCHEDULES.dwg
 LAST SAVED ON: 1/26/23 at 11:44am; PLOTTED ON: 2/06/23 at 3:20pm

PANELBOARD (E) PNL NUR						VOLTAGE: 208/120 V			PHASE A: 1400 VA 11.7 A				
						PHASE/WIRE: 1 PH 3W			PHASE B: 200 VA 1.7 A				
						MAIN AMPS: MLO							
						BUS AMPS: 100 A							
						AIC RATING 10000 A			CONNECTED: 1600 VA 7.7 A				
						MOUNTING: SURFACE			DEMAND: 1650 VA 7.9 A				
NOTES	LOAD DESCRIPTION	Φ	VA		BKR	CKT	CKT	BKR	VA	Φ	LOAD DESCRIPTION	NOTES	
1	(E) RECS	A	1200	R	(E)20/1	1	2	(E)20/1	L	200	A	(E) LTG	1
2	CABIN REC	B	200	R	20/1	3	4				B	(E) SPACE	
	(E) SPACE	A				5	6				A	(E) SPACE	
	(E) SPACE	B				7	8				B	(E) SPACE	
GENERAL NOTES						SCHEDULE NOTES							
a. PANEL FED FROM 50A/2P BREAKER IN UPSTEAM PNL						1. (E) BREAKER AND LOAD TO REMAIN							
b.						2. PROVIDE NEW BREAKER IN (E) SPACE							
c.						3.							
d.						4.							
e.						5.							
f.						6.							
LOAD TYPE	LOAD DESCRIPTION	CONNECTED (kVA)	SUBFED (kVA)	TOTAL BY TYPE (kVA)	DEMAND FACTOR (kVA)	DEMAND BY TYPE (kVA)							
G	GENERAL	0.00	0.00	0.00	100%	0.00							
L	LIGHTING	0.20	0.00	0.20	125%	0.25							
R	RECEPTACLES	1.40	0.00	1.40	100%/50%	1.40							
K	KITCHEN	0.00	0.00	0.00	100%	0.00							
H	HEATING	0.00	0.00	0.00	100%	0.00							
M	MOTORS	0.00	0.00	0.00	100%	0.00							
LM	LARGEST MOTOR	0.00	0.00	0.00	125%	0.00							
WH	WATER HEATER	0.00	0.00	0.00	125%	0.00							
C	CONTINUOUS	0.00	0.00	0.00	125%	0.00							

VOLTAGE DROP LIMITATIONS											
SUMMARY OF MAXIMUM FEEDER AND BRANCH CIRCUIT LENGTHS											
WIRE (AWG)	CIRCUIT AMPS (A)	MAXIMUM FEEDER LENGTH (ft)						MAXIMUM BRANCH CIRCUIT LENGTH (ft)			
		120V	208V	480V	277V	480V	120V	208V	240V	277V	480V
14	12	39	67	75	30	150	58	101	11	15	22.5
12	16	46	80	85	35	165	69	120	14	20	27.5
10	24	48	83	90	45	180	72	125	14	20	27.5
8	32	57	99	110	55	200	86	149	17	25	34
6	40	73	127	145	70	230	110	190	20	30	40
4	52	89	154	175	90	260	134	232	24	35	45
2	72	103	178	205	110	300	154	267	28	40	50
0	96	123	212	245	140	330	184	319	33	45	55
00	108	137	238	275	155	360	206	357	37	50	60
0000	144	163	283	330	200	420	245	425	45	60	75
250	164	170	294	345	210	435	255	441	48	65	80
300	184	181	314	365	220	450	272	471	51	70	85
350	200	195	338	390	230	465	292	506	55	75	90
500	248	224	388	445	270	510	336	582	64	85	105
SUMMARY OF VOLT DROP LIMITS											
CIRCUIT VOLTS (V)		2% VOLTAGE DROP (V)		3% VOLTAGE DROP (V)		5% VOLTAGE DROP (V)					
120		2.4		3.6		6.0					
208		4.2		6.2		10.4					
240		4.8		7.2		12.0					
277		5.5		8.1		13.5					
480		9.6		14.4		24.0					

NOTES:
 1. TABLE ABOVE IS FOR COPPER WIRING ONLY.
 2. IF FIELD CONDITIONS RESULT IN WIRE SIZES NOTED ABOVE EXCEEDING THE LENGTHS NOTED ABOVE, CONTRACTOR SHALL INCREASE WIRE AND CONDUIT SIZE AS REQUIRED TO MEET VOLTAGE DROP REQUIREMENTS.
 3. FEEDERS SHALL BE LIMITED TO A MAXIMUM OF 2% VOLTAGE DROP.
 4. BRANCH CIRCUITS SHALL BE LIMITED TO A MAXIMUM OF 3% VOLTAGE DROP.
 5. TOTAL VOLTAGE DROP FOR ELECTRICAL DISTRIBUTION SYSTEM (FEEDER + BRANCH CIRCUIT) SHALL BE LIMITED TO A MAXIMUM OF 5% VOLTAGE DROP.

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CITY OF BERKELEY ECHO LAKE CAMP ACCESSIBILITY UPGRADES

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CONSTRUCTION DRAWINGS

ISSUE DATE 02/03/2023

N&T JOB #

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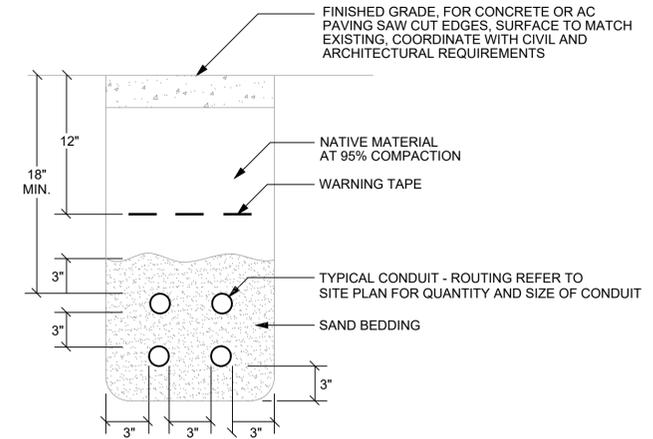
DATE	DESCRIPTION

SHEET TITLE
**SCHEDULES
 PANELS**

SHEET NUMBER

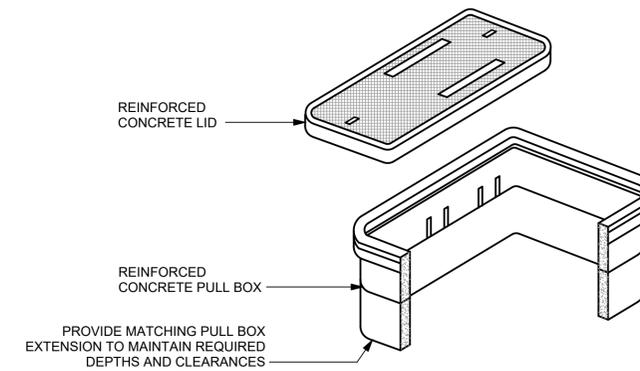
E701

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1 CONDUIT IN TRENCH

NOT TO SCALE



DETAIL NOTES

1. HIGH DENSITY REINFORCED CONCRETE PULL AND JUNCTION BOX WITH END AND SIDE KNOCKOUTS. NON-SETTLING SHOULDERS MAINTAIN GRADE AND FACILITATE BACK FILLING. SIZE PULL BOX PER CODE.
2. PROVIDE MINIMUM OF 6" CRUSHED ROCK BEDDING AT BOTTOM OF BOX FOR DRAINAGE.
3. CHRISTY TYPE "N" SERIES PULL BOX WITH "N" SERIES LID UON OR EQUAL.
4. PROVIDE IN AREAS NOT SUBJECT TO VEHICULAR TRAFFIC (LANDSCAPE), UON.

NON-TRAFFIC RATED

2 INGRADE PULL BOX

NOT TO SCALE

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**CITY OF BERKELEY
 ECHO LAKE
 CAMP
 ACCESSIBILITY
 UPGRADES**

7 Echo Lakes Rd, Echo Lake,
 CA 95721

**CONSTRUCTION
 DRAWINGS**

ISSUE DATE 02/03/2023

N&T JOB #

REVISIONS

DATE	DESCRIPTION

SHEET TITLE

DETAILS

SHEET NUMBER

E800