SAN BERNARDINO COUNTY

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# SECTION G

# CONTRACT DRAWINGS

# CSA 29 LUCERNE VALLEY COMMUNITY CENTER RENOVATION PROJECT

FOR

**CSA 29 LUCERNE VALLEY**
**LUCERNE VALLEY, CALIFORNIA**

**PROJECT NO.: 30.30.0162**

# CSA 29 LUCERNE VALLEY COMMUNITY CENTER RENOVATION PROJECT SAN BERNARDINO, CA

33187 OLD WOMAN SPRINGS ROAD
LUCERNE VALLEY, CA



## SHEET INDEX



## PROJECT DATA

**PROJECT DESCRIPTION:**
THIS PROJECT CONSISTS OF IMPROVEMENTS FOR DISABLED ACCESS COMPLIANCE TO THE FOLLOWING EXISTING FACILITIES: RESTROOMS AND ENTRANCES AT THE COMMUNITY CENTER. REWORK TWO COUNTERS, TWO SETS OF DRINKING FOUNTAINS AND SIGNAGE. REMODEL ACCESSIBLE PARKING, LANDINGS AND WALKS, FROM PUBLIC WAY TO COMMUNITY CENTER. CONSTRUCT ACCESSIBLE WALKS FROM THERE TO PICNIC AREA, SNACK SHACK, RESTROOM BLDG, BASKETBALL COURT & BLEACHERS. REMODEL SMALL CASUAL 'KITCHEN' INTO A CATERING KITCHEN. MEP & CIVIL TO SUPPORT THE ABOVE.

**OWNER:**
SAN BERNARDINO COUNTY
PUBLIC WORKS SPECIAL DISTRICTS
222 W. HOSPITALITY LANE,
2ND, FLOOR
SAN BERNARDINO, CA 92415

**APPLICANT:**
SAN BERNARDINO COUNTY
PUBLIC WORKS SPECIAL DISTRICTS
222 W. HOSPITALITY LANE,
2ND, FLOOR
SAN BERNARDINO, CA 92415
CONTACT: ALFONSO FAUSTO
PHONE: 909-230-5000
afausto@niagarawater.com

**ARCHITECT / APPLICANT'S REPRESENTATIVE:**
TR DESIGN GROUP, ARCHITECTURE
2900 ADAMS ST. STUDIO A400
RIVERSIDE, CA 92504
CONTACT: JAMES HORECKA
PHONE: 951-742-7179
FAX: 951-742-7178
james@trdesigngroup.com

**APN:** 0450-141-09-0000

**ZONE/LAND USE:**
EXISTING: COMMERCIAL
PROPOSED: NO CHANGE

**PROPOSED OCCUPANCY:**
OCCUPANCY GROUPS:
MULTIPURPOSE ROOM: A-2
OFFICES: B
STORAGE: S-1

## PROJECT TEAM

**ARCHITECT:** TR DESIGN GROUP, ARCHITECTURE
7179 MAGNOLIA AVENUE
RIVERSIDE, CA 92504
CONTACT: JAMES HORECKA
PHONE: 951-742-7179
EMAIL: james@trdesigngroup.com

**MECHANICAL/ PLUMBING ENGINEER:** GMEP ENGINEERS
26439 RANCHO PKWY. S., STE 120
LAKE FOREST, CA 92630
CONTACT: JACOB DAYTON
PHONE: 510-634-7944 X230
EMAIL: jacobd@gmepe.com

**CIVIL ENGINEER:** ADKAN ENGINEERS
6879 AIRPORT DRIVE
RIVERSIDE, CA 92504
CONTACT:
PHONE: (951) 688-0241
EMAIL:

**ELECTRICAL ENGINEER:** GMEP ENGINEERS
26439 RANCHO PKWY. S., STE 120
LAKE FOREST, CA 92630
CONTACT: JACOB DAYTON
PHONE: 510-634-7944 X230
EMAIL: jacobd@gmepe.com

**OCCUPANCY:**
GROUP A-2 - MULTIPURPOSE ROOM
GROUP B - OFFICE
GROUP S-1 - STORAGE

**CONSTRUCTION TYPE:**
TYPE V-B
NOT FIRE SPRINKLERED

**ALLOWABLE AREA, HEIGHT, STORIES:**
AREA: A-3 = 24,000 SF STORIES: TWO

**ACTUAL AREA, HEIGHT, STORIES:**
AREA: A-2 = 4,872 SF STORIES: ONE (NO CHANGE TO (E) AREA)

**MIXED USE:**
NON-SEPARATED OCCUPANCIES

**PLUMBING FIXTURE CALCULATION**

| | LOAD FACTOR | AREA IN SQ. FT. | OCCUP. LOAD | | TOTAL OCCUP. |
|---|---|---|---|---|---|
| ASSEMBLY, LESS CONCENTRATED USE | 30 / OCC | 2,160 SF | 72 | | |

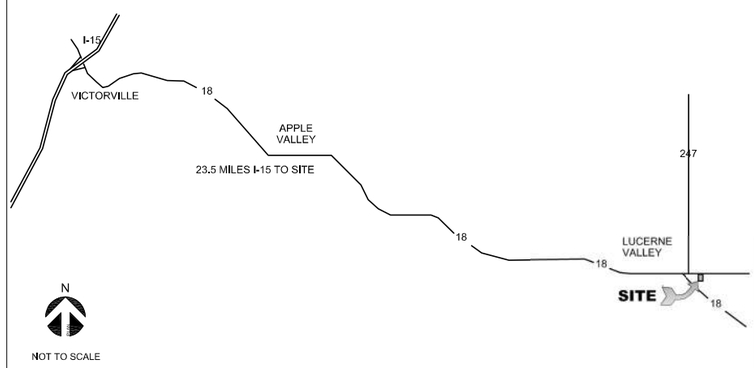
**PLUMBING FIXTURE COUNTS**

| OCCUPANCY | WATER CLOSETS | | | | URINAL | | LAVATORIES | | | | D.F. | | MOP | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | REQD | | PROV. | | REQD | PROV. | REQD | | PROV. | | REQD | PROV. | REQD | PROV. |
| | M | W | M | W | | | M | W | M | W | | | | |
| ASSEMBLY: 36 M & 36 W | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |

## BUILDING CODE SUMMARY

**CONSTRUCTION CODES USED**
THIS PROJECT SHALL COMPLY WITH THE FOLLOWING CODES:
2022 CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R
2022 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R.
2022 CALIFORNIA PLUMBING CODE (CPC), PART 9 TITLE 24 C.C.R.
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3 TITLE 24 C.C.R.
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 C.C.R.
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24 C.C.R.
2022 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
TITLE 19 C.C.R. PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
DISABLE ACCESS COMPLIANCE:
2010 ADA STANDARDS
2022 CALIFORNIA BUILDING CODE CHAPTER 11B

## VICINITY MAP




NOT TO SCALE

06-20-2024

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OR
811
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BENCHMARK:

BASIS OF BEARINGS:

LICENSED ARCHITECT THOMAS WILLIAM RIGGS C-24877 REN. 8/31/25 STATE OF CALIFORNIA

TR DESIGN GROUP ARCHITECTURE 951.742.7179 2900 ADAMS STREET STUDIO A-400 RIVERSIDE, CA 92504 www.trdesigngroup.com

REVISIONS

| MARK | DATE | INITIAL | DESCRIPTION | APPR. | DATE |
|---|---|---|---|---|---|

PLANS APPROVED BY:
SAN BERNARDINO COUNTY - PUBLIC WORKS
SPECIAL DISTRICTS
David Doublet — Digitally signed by David Doublet Date: 2024.06.24 14:49:19 -07'00'
ASSISTANT DIRECTOR DATE

| APPROVALS | | INITIAL | DATE |
|---|---|---|---|
| | PROJECT MANAGER | Alfonso Fausto | |
| | OPS, DIVISION MANAGER | Henry Mac | |
| | PW, DIVISION MANAGER | Noel Mondragon | |

IMPROVEMENT PLANS

**CSA 29 LUCERNE VALLEY COMMUNITY CENTER RENOVATION PROJECT**
**COVER SHEET**

DWG NO.
FILE NO.
SHEET **T-1.0**

## GENERAL DEMO NOTES

1. THE FOLLOWING NOTES DESCRIBE THE GENERAL REQUIREMENTS FOR THE DEMOLITION OF THE SELECTED PORTIONS OF THE PROJECT. THESE REQUIREMENTS ARE NOT ALL INCLUSIVE OF ALL THE WORK NECESSARY TO COMPLETE THIS PORTION AND MAY REQUIRE ADDITIONAL INCIDENTAL WORK FOR PROPER EXECUTION
2. PRIOR TO DEMOLITION WORK, THE CONTRACTOR SHALL DISCUSS SCHEDULING AND PHASING WITH THE OWNER AND PRESENT A PROGRAM AS REQUIRED WHICH OUTLINE THE ORDER OF PRECEDENCE FOR THE WORK IN ACCORDANCE WITH THE OWNER / OCCUPANTS REQUIREMENTS WITH THE OWNER / OCCUPANTS REQUIREMENTS FOR BUILDING OCCUPANCY.
3. THROUGHOUT THE COURSE OF DEMOLITION ACTIVITIES, PROPERLY PROTECT ANY EXISTING CONSTRUCTION INDICATED TO REMAIN, EXERCISE CARE WHEN REMOVING ADJACENT CONSTRUCTION AND PROPERLY REPAIR (TO ORIGINAL CONDITION) ANY AREAS SCHEDULED TO REMAIN THAT SUSTAIN DAMAGE AS A RESULT OF DEMOLITION ACTIVITIES
4. EXISTING DRAWINGS AND DEMOLITION PLANS ARE PREPARED FROM EXISTING PLANS PROVIDED BY THE OWNER AND FROM VISUAL INSPECTIONS OF FIELD CONDITIONS. NO DETAILED SURVEY OF FIELD MEASUREMENTS WERE TAKEN TO VERIFY EACH AND EVERY EXISTING CONDITION. THE CONTRACTORS SHALL SURVEY THE EXISTING CONDITIONS AND REFER TO DRAWINGS BEFORE ANY DEMOLITION WORK CAN BEGIN. ANY CONFLICT BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHOULD BE BROUGHT TO ARCHITECTS ATTENTION PRIOR TO PROCEEDING
5. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND COORDINATE ALL DEMOLITION ACTIVITIES WITH ANY NEW CONSTRUCTION AS INDICATED WITHIN THE CONSTRUCTION DOCUMENTS
6. DO NOT SCALE DRAWINGS
7. ANY CUTTING AND REMOVAL INDICATED ON THE CONSTRUCTION DOCUMENTS ARE GENERAL INDICATIONS ONLY AND MAY NOT NECESSARILY SHOW THE FULL EXTENT OF CUTTING AND REMOVAL NECESSARY
8. EXCEPT AS NOTED OTHERWISE, REMOVE ALL DEMOLISHED MATERIALS FROM THE SITE AND DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS, DO NOT BURN, BURY, OR SELL MATERIALS ON THE PROJECT SITE. AT THE COMPLETION OF EACH WORK DAY, CLEAN THE ENTIRE WORK AREA AND LEAVE IN A NEAT CONDITION FREE OF DEBRIS AND RUBBISH
9. EXCEPT AS NOTED OTHERWISE, REMOVE ALL CONFORMANCE WITH ALL CODES AND ORDINANCES AS SET FORTH BY ALL AUTHORITIES HAVING JURISDICTION (AHJ)
10. THE CONTRACTOR SHALL NOT CUT ANY EXISTING STRUCTURAL WORK IN ANY MANNER, THE CONTRACTOR SHALL PROTECT ALL LOAD BEARING STRUCTURAL ELEMENTS AND PROVIDE ADDITIONAL TEMPORARY SUPPORT IF REQUIRED DURING DEMOLITION WORK
11. REMOVE EXISTING CONSTRUCTION AS INDICATED. TYPICAL WALL REMOVAL SHALL INCLUDE MECHANICAL, PLUMBING, ELECTRICAL, COMMUNICATIONS AND SECURITY SYSTEMS CONTAINED THEREIN. REMOVE DOORS, CABINETWORK, CASEWORK, FINISHES, FIXTURES AND THEIR ATTACHMENTS AS REQUIRED. AFTER REMOVAL, REPAIR HOLES IN EXISTING-TO- REMAIN WALLS, BARRIERS, FLOORS ABOVE AND ROOFS TO BE WATER TIGHT AND TO COMPLY WITH STRUCTURAL INTEGRITY.
12. THE CONTRACTOR SHALL BRACE ALL EXISTING STRUCTURES AND ALL STRUCTURAL ELEMENTS AS NECESSARY DURING DEMOLITION.
13. WHERE EXISTING CONSTRUCTION IS FOUND TO CONTAIN ANY HAZARDOUS MATERIAL, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND THE ARCHITECT IN WRITING, REMOVAL, DISPOSAL AND REPLACEMENT OF THE HAZARDOUS MATERIAL IS THE SOLE RESPONSIBILITY OF THE OWNER, AND SHALL BE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.
14. REMOVE DEMOLITION MATERIALS PROMPTLY AND DISPOSE OF LEGALLY OFF SITE, USE ONLY MEANS AND PATHS FOR MATERIAL REMOVAL AS APPROVED BY THE OWNER, WHERE REMOVAL IS PERMITTED THROUGH OCCUPIED AREAS OF THE BUILDING. COVER, WRAP OR OTHERWISE CONTAIN MATERIALS SO REMOVES. INSPECT AND CLEAN DAILY THE ROUTE USED FOR SUCH REMOVAL.
15. IF ANY EXISTING FIREPROOFING AND / OR RATED ASSEMBLIES (WHICH ARE SUPPOSED TO REMAIN) ARE DAMAGED DURING DEMOLITION, THEY SHALL BE REPAIRED TO CONFORM TO THE ORIGINAL FIRE PROTECTION REQUIREMENTS, ALSO, THE INTEGRITY OF EXISTING RATED FLOOR, WALL, AND BARRIER ASSEMBLIES (WHICH ARE SUPPOSED TO REMAIN) SHALL BE MAINTAINED THROUGHOUT ALL PHASES OF CONSTRUCTION. (NOTE: AS APPLICABLE, CONTACT INTERIOR DESIGNER TO VERIFY TESTED ASSEMBLIES TO BE USED FOR REPAIRS.)
16. CAREFULLY REMOVE ACOUSTIC TILE CEILING & GRID AS REQUIRED TO DEMO EXISTING AND PROTECT ALL OF EXISTING CONSTRUCTION THAT IS TO REMAIN
17. PRECAUTION SHALL BE TAKEN WHEN REMOVING DRYWALL FROM BEARING WALLS TO PROPERLY PROTECT EXISTING WOOD STUD FRAMING.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING THE JOB SITE THROUGHOUT PROVIDING SECURITY LIGHTING, TEMPORARY FENCING, AND ANY BREACHES IN SECURITY DURING CONSTRUCTION.
19. WHEN CUTTING UTILITY TRENCHES IN THE EXISTING SLAB AS REQUIRED PER THE PLANS, THE CONTRACTOR SHALL BACKFILL PER PLANS AND SPECIFICATIONS AND REPLACE CONCRETE SLAB PER DETAILS ON PLANS WITH ALL REINFORCING AND DOWELS AS INDICATED.
20. PATCH EXISTING GYP.BD WALLS WHERE ANY INTERSECTING PARTITIONS HAVE BEEN REMOVED.

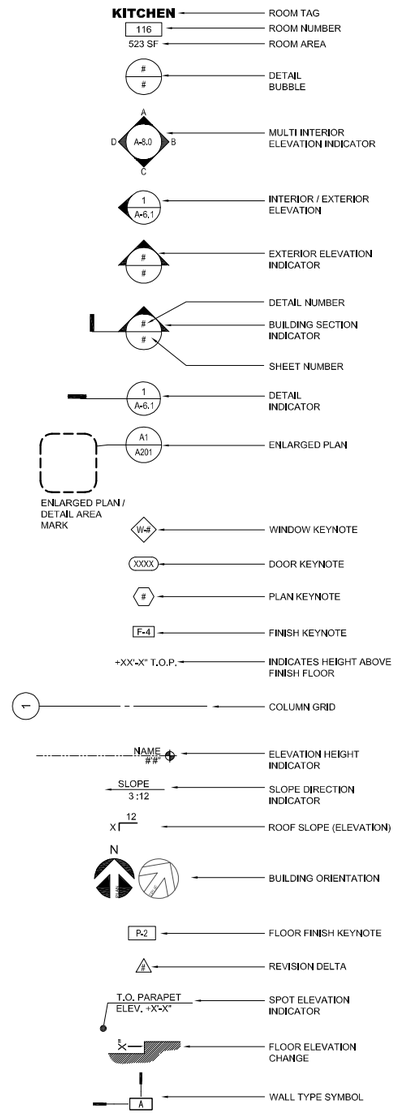
## GENERAL NOTES

1. NO CONSTRUCTION FOR DEFERRED SUBMITTAL ITEMS SHALL COMMENCE UNTIL APPROVED AND PERMITTED BY THE BUILDING OFFICIAL.
2. THE CONTRACTOR SHALL BE RESPONSIBLE OR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCE ON PROCEDURES OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.
3. THE DESIGN ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING,TEMPORARY SUPPORTS, ETC. DURING CONSTRUCTION IS THE SOLE RESPONSIBLE OF THE CONTRACTOR AND HAS NOT BEEN CONSIDERED BY THE STRUCTURAL ENGINEER.
4. DISCREPANCIES IN THE CONTRACT DOCUMENTS: IN THE EVENT OF ERROR, OMISSION, AMBIGUITY, OR CONFLICT WITHIN THE DRAWINGS AND/OR SPECIFICATIONS, THE CONTRACTOR SHALL BRING THE MATTER TO THE ARCHITECTS ATTENTION IN A TIMELY MANNER FOR ARCHITECTS AND OWNERS DETERMINATION AND DIRECTION IN ACCORDANCE WITH PROVISIONS OF THE GENERAL CONDITIONS. DISCREPANCIES IN THE CONTRACT SHALL NOT BE ALLOWED AS A BASIS FOR CHANGE ORDERS.
5. JOB SITE MEASUREMENTS ARE THE FULL RESPONSIBILITY OF THE CONTRACTOR AND/OR SUBCONTRACTOR AND MUST BE TAKEN FOR ALL ITEMS BY ALL SUBCONTRACTOR PRIOR TO FABRICATION.
6. WRITTEN DIMENSIONS SHALL BE USED FOR LAY OUT. DO NOT SCALE DRAWINGS.
7. THE CONTRACTOR SHALL VISIT THE JOB SITE AND BE RESPONSIBLE FOR THE VERIFICATION OF ALL EXISTING CONDITIONS, ELEVATIONS, AND DIMENSIONS PRIOR TO COMMENCING CONSTRUCTION.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LEAVING ALL FINISHED SURFACES CLEAN AT THE COMPLETION OF THE WORK AND SHALL REMOVE ALL EXCESS MATERIAL AND DEBRIS FROM THE JOB REGULARLY.
9. THE CONTRACTOR SHALL COORDINATE AND VERIFY WITH ALL SUBCONTRACTORS THE SIZE AND LOCATION OF ALL NEW AND EXISTING PIPING, FOOTINGS, TRENCHES, SLEEVES, CONDUITS, ETC.
10. ALL CONSTRUCTION AND WORKMANSHIP SHALL COMPLY WITH APPLICABLE LOCAL STATE AND FEDERAL CODES AND STANDARDS.
11. THE RELATIONSHIPS OF THE DRAWINGS, SPECIFICATIONS, AND OTHER CONTRACT DOCUMENTS IN THE PROJECT MANUAL IS INTENDED TO BE COMPLEMENTARY . WHAT IS REQUIRED BY ONE SHALL BE AS IF REQUIRED BY ALL. WHAT IS SHOWN OR REQUIRED OR MAY BE REASONABLY INFERRED TO BE REQUIRED OR WHICH IS USUALLY AND CUSTOMARILY PROVIDED SHALL BE INCLUDED IN THE WORK.
12. WORKMANSHIP SHALL BE FIRST CLASS, FINISHED, SAFE AND NEAT THROUGHOUT AND PERFORMED BY COMPETENT AND EXPERIENCED WORKMEN. CONSTANT SUPERVISION OF WORK BY CONTRACTOR SHALL BE MAINTAINED.
13. ALL CONSTRUCTION MATERIAL SHALL BE 100% ASBESTOS FREE.
14. FOOTINGS SHALL BE EXAMINED AND CERTIFIED IN WRITING BY THE PROJECT SOIL/GEOLOGY ENGINEER PRIOR TO BUILDING DEPARTMENT INSPECTIONS AND PLACEMENT OF CONCRETE.
15. ~~PROVIDE SPECIAL INSPECTION BY A CERTIFIED INSPECTOR FOR THE ITEMS INDICATED IN THE STRUCTURAL PLANS.~~
16. GENERAL CONTRACTOR SHALL REVIEW ALL DRAWINGS IN SET.
17. GENERAL CONTRACTOR SHALL PROVIDE A COMPLETE BUILD-OUT WITH ALL FINISHES, STRUCTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS AS SHOWN OR INDICATED ON DRAWINGS. GENERAL CONTRACTOR TO PROVIDE ALL ITEMS SHOWN ON DRAWINGS AND WRITTEN IN SPECIFICATIONS, UNLESS NOTED OTHERWISE.
18. ALL ITEMS SHOWN ON DRAWINGS ARE TO BE FURNISHED AND INSTALLED BY GENERAL CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE.
19. GENERAL CONTRACTOR IS RESPONSIBLE TO MAINTAIN A CURRENT SET OF DRAWINGS ON SITE AT ALL TIMES AND TO INSURE THE DISTRIBUTION OF NEW DRAWINGS TO SUBCONTRACTORS AND OTHER RELEVANT PARTIES AS SOON AS THEY ARE MADE AVAILABLE. ALL OLD DRAWINGS ARE TO BE MARKED VOID, REMOVED FROM SITE AND RENDERED USELESS.
20. GENERAL CONTRACTOR SHALL FURNISH SUBCONTRACTORS AND RELATED PARTIES WITH COMPLETE SET OF DRAWINGS.
21. GENERAL CONTRACTOR SHALL FURNISH AN "AS BUILT" SET OF DRAWINGS TO OWNER UPON COMPLETION OF BUILD-OUT.
22. GENERAL CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS AND SUBMIT COPIES AS REQUIRED BY THE SPECIFICATIONS FOR REVIEW BY ARCHITECT /ENGINEER.
23. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ITEMS BUILT OR INSTALLED TO BE TRUE AND PLUMB (WALLS, WINDOW), ETC.
24. GENERAL CONTRACTOR SHALL PROVIDE ALL BLOCKING AND FASTENERS, INCLUDING ALL BLOCKING FOR GRAB BARS, SHELVES AND ANY AND ALL OTHER WALL OR CEILING MOUNTED ITEMS.
25. GENERAL CONTRACTOR SHALL PROVIDE ALL MATERIALS NECESSARY FOR COMPLETE CONSTRUCTION OF BUILD-OUT.
26. GENERAL CONTRACTOR SHALL FURNISH ALL MATERIAL, LABOR, AND EQUIPMENT TO COMPLETE ALL WORK IN ACCORDANCE WITH LOCAL AND STATE GOVERNING AUTHORITIES AND OTHER AUTHORITIES HAVING LAWFUL JURISDICTION OVER THE WORK.
27. THE GENERAL CONTRACTOR AND APPLICABLE SUBCONTRACTORS SHALL REVIEW MANUFACTURER'S RECOMMENDATIONS AND CONDITIONS FOR ALL EQUIPMENT AND PRODUCTS PURCHASED.
28. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ON-SITE SAFETY FROM THE TIME THE CONTRACT IS AWARDED UNTIL SUBSTANTIAL COMPLETION, IN ACCORDANCE WITH THE CONTRACT.

## ABBREVIATIONS

| | |
|---|---|
| AB | ANCHOR BOLT |
| ACT | ACOUSTICAL CEILING TILE |
| AW | ACOUSTICAL WALLCOVERING |
| ACOUST | ACOUSTICAL |
| ADJ | ADJACENT, ADJUSTABLE |
| AFF | ABOVE FINISHED FLOOR |
| AL | ALUMINUM |
| ALT | ALTERNATE |
| AP | ACCESS PANEL |
| APPROX | APPROXIMATE |
| ARCH | ARCHITECTURAL |
| AF | AWNING FABRIC |
| B | BASE |
| BD | BOARD |
| BG | BUMPER GUARD |
| BLDG | BUILDING |
| BLK | BLOCK |
| BLKG | BLOCKING |
| BM | BEAM |
| BOF | BOTTOM OF FOOTING |
| BOT | BOTTOM |
| CAB | CABINET |
| CB | CONCRETE BLOCK |
| C-C | CENTER TO CENTER |
| CDV | COMBINATION DRAIN AND VENT |
| CEM | CEMENT |
| CER | CERAMIC |
| CF | CONCRETE FINISH |
| CFMF | COLD FORMED METAL FRAMING |
| CG | CORNER GUARD |
| CJ | CONTROL JOINT |
| CRCT | CIRCUIT |
| CL | CLOSET |
| CLKG | CAULKING |
| CLG | CEILING |
| CLR | CLEAR |
| CMU | CONCRETE MASONRY UNIT |
| COL | COLUMN |
| COM | CUSTOM HUTCH |
| CONC | CONCRETE |
| COND | CONDITION |
| CONSTR | CONSTRUCTION |
| CONT | CONTINUOUS |
| CONTR | CONTRACTOR |
| CORR | CORRIDOR |
| CPT | CARPET |
| CT | CERAMIC TILE |
| CTR | CENTER |
| d | PENNY |
| DN | DOWN |
| DET | DETAIL |
| DIA | DIAMETER |
| DIFF | DIFFUSER |
| DIM | DIMENSION |
| DISP | DISPENSER |
| DR | DOOR |
| DWG(S) | DRAWING, DRAWINGS |
| DWR | DRAWER |
| (E) | EXISTING |
| E | EAST |
| EA | EACH |
| EIFS | EXTERIOR INSULATION AND FINISH SYSTEM |
| EJ | EXPANSION JOINT |
| EL, ELEV | ELEVATION |
| ELEC | ELECTRIC, ELECTRICAL |
| ELEV | ELEVATOR |
| EMER | EMERGENCY |
| ENCL | ENCLOSURE |
| EQUIP | EQUIPMENT |
| EWC | ELECTRIC WATER COOLER |
| EXH | EXHAUST |
| EXP | EXPANSION, EXPOSED |
| EXT | EXTERIOR |
| FA | FIRE ALARM |
| FB | FLAT BAR |
| FCO | FLOOR CLEANOUT |
| FD | FLOOR DRAIN |
| FDN | FOUNDATION |
| FE | FIRE EXTINGUISHER |
| FEC | FIRE EXTINGUISHER CABINET |
| FH | FIRE HYDRANT |
| FIN | FINISH |
| FIX, FIXT | FIXTURE |
| FL, FLR | FLOOR |
| FLASH | FLASHING |
| FRTW | FIRE RETARDANT TREATED WOOD |
| FLUOR | FLUORESCENT |
| FOC | FACE OF CONCRETE |
| FOF | FACE OF FINISH |
| FOS | FACE OF STUDS |
| FOW | FACE OF WALL |
| FR | FIRE RATED/RETARDANT |
| FRP | FIBERGLASS REINFORCED POLYESTER PANEL |
| FRT | FIRE RETARDANT TREATED |
| FT | FOOT, FEET |
| FTG | FOOTING |
| FURR | FURRING |
| FW | FIRE SERVICE |
| G | GAS |
| GC | GENERAL CONTRACTOR |
| GRT | GROUT |
| GA | GAUGE |
| GALV | GALVANIZED |
| GB | GRAB BAR |
| GEN | GENERATOR |
| GL | GLASS |
| GND,GRND | GROUND |
| GWB | GYPSUM WALLBOARD |
| GYP | GYPSUM |
| HB | HOSE BIBB |
| HD | HEAD |
| HDWD | HARDWOOD |
| HDWR | HARDWARE |
| HM | HOLLOW METAL |
| HORIZ | HORIZONTAL |
| HR | HOUR |
| HT | HEIGHT |
| HVAC | HEATING, VENTILATING, AND AIR CONDITIONING |
| ID | IDENTIFICATION |
| ID | INSIDE DIAMETER |
| IE | INVERT ELEVATION |
| IN | INCH |
| INSUL | INSULATION |
| INT | INTERIOR |
| IR | IRRIGATION |
| ISA | INTERNATIONAL SYMBOL OF ACCESSIBILITY |
| JAN | JANITOR |
| JST | JOIST |
| JT | JOINT |
| KP | KICK PLATE |
| MDG | MOLDING |
| MACH | MACHINE |
| MATL | MATERIAL |
| MAX | MAXIMUM |
| MECH | MECHANICAL |
| MEMB | MEMBRANE |
| MET, MTL | METAL |
| MFR | MANUFACTURER |
| MH | MANHOLE |
| MIN | MINIMUM |
| MIR | MIRROR |
| MISC | MISCELLANEOUS |
| MO | MASONRY OPENING |
| MR | MOISTURE RESISTANT |
| MTD | MOUNTED |
| MTG | MEETING, MOUNTING |
| MUL | MULLION |
| N | NORTH |
| NEO | NEOPRENE |
| NIC | NOT IN CONTRACT |
| NO | NUMBER |
| NOM | NOMINAL |
| NTS | NOT TO SCALE |
| OA | OVERALL |
| OBS | OBSCURE |
| OC | ON CENTER |
| OD | OUTSIDE DIAMETER |
| OFF | OFFICE |
| OPNG | OPENING |
| OPP | OPPOSITE |
| P | PAINT |
| PL | PLATE |
| P. LAM | PLASTIC LAMINATE |
| PLAS | PLASTER |
| PLYWD | PLYWOOD |
| PM | PARTITION MOUNTED |
| POC | POINT OF CONNECTION |
| PNL | PANEL, PANEL BOARD |
| PP | PREFINISHED PANELS |
| PR | PAIR |
| PROJ | PROJECT |
| PROP | PROPERTY |
| P.T. | PRESSURE TREATED |
| PT | POINT |
| PTD | PAPER TOWEL DISPENSER |
| PTN | PARTITION |
| PWR | POWER |
| QT | QUARRY TILE |
| QTY | QUANTITY |
| R | RISER |
| RAD, R | RADIUS |
| RCM | REGIONAL CONST. MANAGER |
| RD | ROOF DRAIN |
| REC | RECESSED |
| RE, REF | REFERENCE |
| REFL | REFLECTED |
| REINF | REINFORCED |
| REQ, REQD | REQUIRED |
| RESIL | RESILIENT |
| RF | RESILIENT FLOORING |
| RM | ROOM |
| RO | ROUGH OPENING |
| RWL | RAIN WATER LEADER |
| S | SOUTH |
| SAN | SANITARY |
| SC | SOLID CORE |
| SCH | SCHEDULE |
| SD | SOAP DISPENSER |
| SECT | SECTION |
| SF | SQUARE FEET |
| SH | SHELF |
| SHT | SHEET |
| SIM | SIMILAR |
| SL | SLIDING |
| SM | SURFACE MOUNTED |
| SPEC | SPECIFICATION |
| SQ | SQUARE |
| SST | STAINLESS STEEL |
| ST | STAIN |
| STD | STANDARD |
| STL | STEEL |
| STO | STORM |
| STOR | STORAGE |
| STRUCT | STRUCTURAL |
| SUSP | SUSPENDED |
| SWL | SOLID WHITE LINE |
| SWSB | SOLID WHITE STOP BAR |
| SYM | SYMMETRICAL |
| T | TEMPERED |
| TEL | TELEPHONE |
| TEMP | TEMPERED, TEMPORARY |
| THK | THICK, THICKNESS |
| TOS | TOP OF STEEL |
| TOW | TOP OF WALL |
| TT | TOILET TISSUE DISPENSER |
| TYP | TYPICAL |
| UNF | UNFINISHED |
| UNO | UNLESS NOTED OTHERWISE |
| VCT | VINYL COMPOSITION TILE |
| VERT | VERTICAL |
| VEST | VESTIBULE |
| VTR | VENT THROUGH ROOF |
| VWC | VINYL ALLOVER COVERING |
| W | WEST |
| W/ | WITH |
| WAT | WATER |
| WC | WALL COVERING |
| WD | WOOD |
| WNDW | WINDOW |
| WF | WOOD FLOOR |
| WM | WALK-OFF MAT |
| W/O | WITHOUT |
| WP | WATERPROOF |
| WR | WATER RESISTANT |
| WT | WEIGHT |
| X | BY; TIMES |

## SYMBOLS




06-20-2024



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BASIS OF BEARINGS:

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THOMAS WILLIAM RIGGLE
C-24877
REN. 8/31/25
STATE OF CALIFORNIA

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2900 ADAMS STREET
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PLANS APPROVED BY:
SAN BERNARDINO COUNTY - PUBLIC WORKS
SPECIAL DISTRICTS
David Doublet
Digitally signed by David Doublet
Date: 2024.06.24 14:51:44 -07'00'
ASSISTANT DIRECTOR — DATE

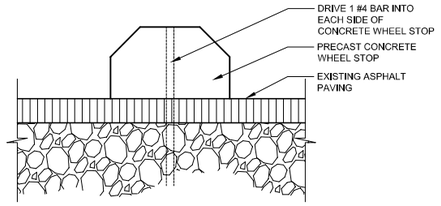
| APPROVALS | | INITIAL | DATE |
|---|---|---|---|
| | PROJECT MANAGER | Alfonso Fausto | |
| | OPS, DIVISION MANAGER | Henry Mac | |
| | PM, DIVISION MANAGER | Noel Mondragon | |

IMPROVEMENT PLANS

**CSA 29 LUCERNE VALLEY COMMUNITY CENTER RENOVATION PROJECT**

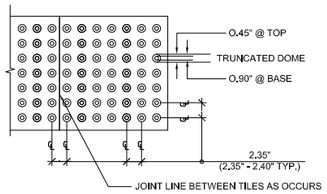
**SYMBOLS AND ABBREVIATIONS**

DWG NO.
FILE NO.
SHEET **T-1.1**




## 12 WHEEL STOP DETAIL
SCALE: N.T.S.

USE "SAFETY STEP TD" TRUNCATED DOMES
COLOR: YELLOW
(FEDERAL COLOR No. 33538 of STANDARD No. 595C)

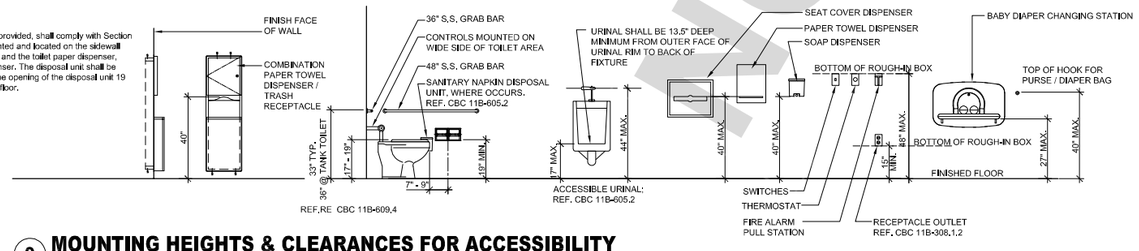



MUST COMPLY WITH 2016 CBC SECTION 11B-705.

## 11 DETECTABLE WARNING DETAIL
SCALE: 1-1/2"=1'-0"

| SCHEDULE OF SIGNS | | | | |
|---|---|---|---|---|
| LIST # | QUAN | DESCRIPTION | LOCATION | MOUNTING |
| 1 | 1 | 24" SQ "TOW-AWAY" SIGN | NEAR DRIVE APPROACH | W/ POST & FOOTING |
| 2 | 1 | 12" X 24" VAN ACCESSIBLE PKG | EAST VAN STALL | W/ POST & FOOTING |
| 3 | 1 | 12" X 24" VAN ACCESSIBLE PKG | WEST VAN STALL | ON WALL OF BLDG |
| 4 | 1 | 12" X 24" ACCESSIBLE PKG | WEST ACCESSIBLE STALL | ON WALL OF BLDG |
| 5 | 4 | 6" SQ ISA ENTRY SIGN | ADJ TO ENTRY DOORS | ON WALL ADJ TO DOOR |
| 6 | 1 | 12" CIRCLE GEOMETRIC SYMBOL | WOMEN'S RESTROOM | ON DOOR |
| 7 | 1 | 12" TRIANGLE GEOMETRIC SYMBOL | MEN'S RESTROOM DOOR | ON DOOR |
| 8 | 1 | RM ID: "WOMEN" ISA, PICTO, BRAILLE | WOMEN'S RESTROOM | ON WALL ADJ TO DOOR |
| 9 | 1 | ROOM ID: "MEN" ISA, PICTO, BRAILLE | MEN'S RESTROOM, ADJ TO DOOR | ON WALL ADJ TO DOOR |
| 10 | 1 | ROOM ID: "JANITOR" W/ BRAILLE | JANITOR RM, ADJ TO DOOR | ON WALL ADJ TO DOOR |
| 11 | 2 | TACTILE SIGN, "EXIT" | MAIN EXIT DOOR; REAR EXIT DOOR | ON WALL ADJ TO DOOR |
| 12 | 4 | WAYFINDING SIGN | LOCATIONS SHOWN ON SITE PLAN | VARIES |
| 13 | 1 | MAXIMUM OCCUPANCY SIGN | MULTIPURPOSE ROOM | PER FLOOR PLAN |

CBC 11B-604.7.2 Disposal units.
Sanitary napkin disposal units, if provided, shall comply with Section 11B-309.4 and shall be wall mounted and located on the sidewall between the rear wall of the toilet and the toilet paper dispenser, adjacent to the toilet paper dispenser. The disposal unit shall be located below the grab bar with the opening of the disposal unit 19 inches minimum above the finish floor.




## 9 MOUNTING HEIGHTS & CLEARANCES FOR ACCESSIBILITY
SCALE: N.T.S.

11B-303.1 GENERAL.
WHERE CHANGES IN LEVEL ARE PERMITTED IN FLOOR OR GROUND SURFACES, THEY SHALL COMPLY WITH SECTION 11B-303.

EXCEPTIONS:
ANIMAL CONTAINMENT AREAS SHALL NOT BE REQUIRED TO COMPLY WITH SECTION 11B-303.
AREAS OF SPORT ACTIVITY SHALL NOT BE REQUIRED TO COMPLY WITH SECTION 11B-303.

11B-303.2 VERTICAL.
CHANGES IN LEVEL OF 1/4 INCH HIGH MAXIMUM SHALL BE PERMITTED TO BE VERTICAL AND WITHOUT EDGE TREATMENT.

11B-303.3 BEVELED.
CHANGES IN LEVEL BETWEEN 1/4 INCH HIGH AND 1/2 INCH HIGH MAXIMUM SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2.

WHEN THE SLOPE IN THE DIRECTION OF TRAVEL OF ANY WALK EXCEEDS 1 VERTICAL TO 20 HORIZONTAL IT SHALL COMPLY AS A PEDESTRIAN RAMP.

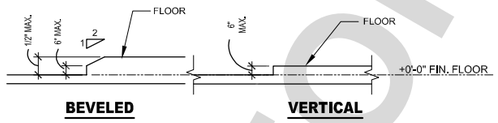
WALK AND SIDEWALK SURFACE CROSS SLOPES SHALL NOT EXCEED 1/4" PER FOOT.

WHERE DOORS OR GATES OCCUR, PROVIDE LANDINGS IN ACCORDANCE WITH CBC SECTION 11B-404. MANEUVERING CLEARANCES REQUIRED DEPEND ON SPECIFIC CONDITIONS, INCLUDING APPROACH, DOOR SWING, & PRESENCE OF A CLOSER. CBC SECTION 11B-404

WALKS SHALL EXTEND A MINIMUM OF 24" TO THE SIDE OF THE STRIKE EDGE OF AN EXTERIOR DOOR OR GATE THAT SWINGS TOWARD THE WALK.

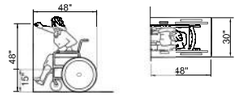
## 7 WALKS AND SIDEWALKS
SCALE: N.T.S.

1. LEVEL AREA IS DEFINED AS "A SPECIFIED SURFACE THAT DOES NOT HAVE A SLOPE IN ANY DIRECTION EXCEEDING 1/4 INCH IN ONE FOOT FROM THE HORIZONTAL (2.083% GRADIENT)."
2. IN BUILDINGS AND FACILITIES, FLOORS OF A GIVEN STORY SHALL BE A COMMON LEVEL THROUGHOUT, OR SHALL BE CONNECTED BY RAMPS, PASSENGER ELEVATORS, OR SPECIAL ACCESS LIFTS.
3. GROUND AND FLOOR SURFACES ALONG ACCESSIBLE ROUTES AND IN ACCESSIBLE ROOMS AND SPACES, INCLUDING FLOORS, WALKS, RAMPS, STAIRS, AND CURB RAMPS, SHALL BE STABLE, FIRM, AND SLIP-RESISTANT.
4. CHANGES IN LEVEL UP TO 1/4" MAY BE VERTICAL AND WITHOUT EDGE TREATMENT. REF: CBC 11B-303.2
5. CHANGES IN LEVEL BETWEEN 1/4" AND 1/2" SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1 VERTICAL TO 2 HORIZONTAL. REF: CBC 11B-303.3

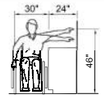



## 6 FLOOR AND LEVELS
SCALE: N.T.S.

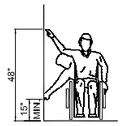
1. THE MINIMUM CLEAR FLOOR OR GROUND SPACE REQUIRED TO ACCOMMODATE A SINGLE, STATIONARY WHEELCHAIR AND OCCUPANT IS 30" BY 48". THE MINIMUM CLEAR FLOOR OR GROUND SPACE FOR WHEELCHAIRS MAY BE POSITIONED FOR FORWARD OR PARALLEL APPROACH TO AN OBJECT. CLEAR FLOOR OR GROUND SPACE FOR WHEELCHAIRS MAY BE PART OF THE KNEE SPACE REQUIRED UNDER SOME OBJECTS.
2. ONE FULL UNOBSTRUCTED SIDE OF THE CLEAR FLOOR OR GROUND SPACE FOR A WHEELCHAIR SHALL ADJOIN OR OVERLAP AN ACCESSIBLE ROUTE OR ADJOIN ANOTHER WHEELCHAIR CLEAR FLOOR SPACE. IF A CLEAR FLOOR OR GROUND SPACE FOR A WHEELCHAIR IS LOCATED IN AN ALCOVE OR OTHERWISE CONFINED ON ALL OR PART OF THREE SIDES, ADDITIONAL MANEUVERING CLEARANCES SHALL BE PROVIDED. REF: CBC 11B-305.7
3. THE SPACE REQUIRED FOR A WHEELCHAIR TO MAKE A 180 DEGREE TURN IS A CLEAR SPACE OF 60" DIAMETER OR A T-SHAPED SPACE.
4. THE MINIMUM CLEAR WIDTH REQUIRED FOR A WHEELCHAIR TO TURN AROUND AN OBSTRUCTION SHALL BE 36" WHERE THE OBSTRUCTION IS 48" OR MORE IN LENGTH AND 42" AND 48" WHERE THE OBSTRUCTION IS LESS THAN 48" IN LENGTH. REF: CBC 11B-403.5.2
5. THE MINIMUM CLEAR WIDTH FOR SINGLE WHEELCHAIR PASSAGE SHALL BE 32" AT A POINT (24" MAXIMUM LENGTH) AND 36" CONTINUOUSLY. REF: CBC 11B-403.5.1
6. IF THE CLEAR FLOOR SPACE ONLY ALLOWS FORWARD APPROACH TO AN OBJECT, THE MAXIMUM HIGH FORWARD REACH ALLOWED SHALL BE 48". THE MINIMUM LOW FORWARD REACH IS 15". IF THE HIGH FORWARD REACH IS OVER AN OBSTRUCTION, REACH AND CLEARANCES SHALL BE AS SHOWN. REF: CBC 11B-308.2
7. IF THE CLEAR FLOOR SPACE ALLOWS PARALLEL APPROACH BY A PERSON IN A WHEELCHAIR, THE MAXIMUM HIGH SIDE REACH ALLOWED SHALL BE 48" AND THE LOW SIDE REACH SHALL BE NO LESS THAN 15" ABOVE THE FLOOR AS SHOWN. IF THE SIDE REACH IS OVER AN OBSTRUCTION, THE REACH AND CLEARANCES SHALL BE A SHOWN. REF: CBC 11B-308.3




HIGH FORWARD REACH




MAXIMUM SIDE REACH OVER AN OBSTRUCTION



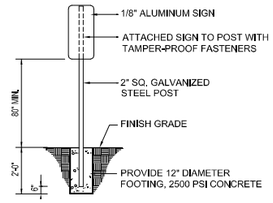

HIGH AND LOW SIDE REACH LIMITS

## 4 SPACE ALLOWANCE AND REACH RANGE
SCALE: N.T.S.

## SIGNS AND IDENTIFICATION

1. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE THE STANDARD USED TO IDENTIFY FACILITIES THAT ARE ACCESSIBLE TO AND USABLE BY PHYSICALLY DISABLED PERSONS AS SET FORTH IN THE 2010 ADA STANDARDS, (SEE FIGURE "B" BELOW)
2. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND. THE BLUE SHALL BE EQUAL TO COLOR NO. 15090 IN FEDERAL STANDARD 595B.
3. LETTERS AND NUMBERS ON SIGNS SHALL HAVE A WIDTH-TO-HEIGHT RATIO OF BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH-TO-HEIGHT RATIO BETWEEN 1:5 AND 1:10.
4. CHARACTERS AND NUMBERS ON SIGNS SHALL BE SIZED ACCORDING TO THE VIEWING DISTANCE FROM WHICH THEY ARE TO BE READ. THE MINIMUM HEIGHT IS MEASURED USING AN UPPER CASE X. LOWER CASE CHARACTERS ARE PERMITTED. FOR SIGNS SUSPENDED OR PROJECTED ABOVE THE FINISH FLOOR, THE MINIMUM CHARACTER HEIGHT SHALL BE 3".
5. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND, EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.
6. WHEN RAISED CHARACTERS OR SYMBOLS ARE USED, THEY SHALL CONFORM TO THE FOLLOWING:
   A. LETTERS AND NUMBERS ON SIGNS SHALL BE RAISED 1/32" MINIMUM AND SHALL BE SANS-SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE.
   B. RAISED CHARACTERS OR SYMBOLS SHALL BE A MINIMUM OF 5/8" HIGH.
   C. PICTORIAL SYMBOL SIGNS (PICTOGRAMS) SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMENSION OF THE PICTOGRAM SHALL BE A MINIMUM OF 6" IN HEIGHT.
7. CONTRACTED GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE SYMBOLS ARE SPECIFICALLY REQUIRED IN OTHER PORTIONS OF THESE REGULATIONS. DOTS SHALL BE 1/10" ON CENTERS IN EACH CELL WITH 2/10" SPACE BETWEEN CELLS. DOTS SHALL BE RAISED A MINIMUM OF 1/40" ABOVE THE BACKGROUND.
8. ALL BUILDING ENTRANCES THAT ARE ACCESSIBLE TO AND USABLE BY PERSONS WITH DISABILITIES AND AT EVERY MAJOR JUNCTION ALONG OR LEADING TO AN ACCESSIBLE ROUTE OF TRAVEL SHALL BE IDENTIFIED WITH A SIGN DISPLAYING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AND WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, TO BE VISIBLE TO PERSONS ALONG APPROACHING PEDESTRIAN WAYS.
9. WHEN PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES, RAISED LETTERS SHALL BE PROVIDED AND SHALL BE ACCOMPANIED BY BRAILLE IN CONFORMANCE WITH A.D.A. SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH OUTSIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE, INCLUDING AT DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT. MOUNTING HEIGHT SHALL BE 60" ABOVE THE FINISHED FLOOR TO THE CENTERLINE OF THE SIGN. MOUNTING LOCATION SHALL BE DETERMINED SO THAT A PERSON MAY APPROACH WITHIN 3" OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR. HEIGHT & LOCATION SHALL COMPLY WITH CBC 11B-703.4
10. EACH PARKING SPACE RESERVED FOR PERSONS WITH DISABILITIES SHALL BE IDENTIFIED BY A REFLECTORIZED SIGN PERMANENTLY POSTED IMMEDIATELY ADJACENT TO AND VISIBLE FROM EACH STALL OR SPACE, CONSISTING OF A PROFILE VIEW OF A WHEELCHAIR WITH OCCUPANT IN WHITE ON DARK BLUE BACKGROUND. THE SIGN SHALL NOT BE SMALLER THAN 70 SQUARE INCHES IN AREA AND, WHEN IN A PATH OF TRAVEL, SHALL BE POSTED AT A MINIMUM HEIGHT OF 80" FROM THE BOTTOM OF THE SIGN TO THE PARKING SPACE FINISHED GRADE. AN ADDITIONAL SIGN OR ADDITIONAL LANGUAGE BELOW THE SYMBOL OF ACCESSIBILITY SHALL STATE "MINIMUM FINE $250". REF: CBC 11B-502.6. SEE FIGURE A AT RIGHT.
11. SIGNS TO IDENTIFY ACCESSIBLE PARKING SPACES MAY BE CENTERED ON THE WALL AT THE INTERIOR OF THE PARKING SPACE AT A MINIMUM HEIGHT OF 60" FROM THE PARKING SPACE FINISHED GRADE, GROUND OR SIDEWALK. REF: CBC 11B-502.6
12. VAN-ACCESSIBLE PARKING SPACES SHALL HAVE AN ADDITIONAL SIGN STATE "VAN-ACCESSIBLE" MOUNTED BELOW THE SYMBOL OF ACCESSIBILITY.
13. AN ADDITIONAL SIGN SHALL ALSO BE POSTED, IN A CONSPICUOUS PLACE, AT EACH ENTRANCE TO OFF-STREET PARKING FACILITIES, OR IMMEDIATELY ADJACENT TO AND VISIBLE FROM EACH STALL OR SPACE. THE SIGN SHALL BE NOT LESS THAN 17" BY 22" IN SIZE WITH LETTERING NOT LESS THAN 1" IN HEIGHT. (FIG. C AT RIGHT)
14. 11B-502.6.4 MARKING
    EACH ACCESSIBLE CAR AND VAN SPACE SHALL HAVE SURFACE IDENTIFICATION COMPLYING WITH EITHER SECTION 11B-502.6.4.1 OR 11B-502.6.4.2

    11B-502.6.4.1
    THE PARKING SPACE SHALL BE MARKED WITH AN INTERNATIONAL SYMBOL OF ACCESSIBILITY COMPLYING WITH SECTION 11B-703.7.2.1 IN WHITE OR BLUE BACKGROUND A MINIMUM 36 INCHES WIDE BY 36 INCHES HIGH. THE CENTERLINE OF THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE A MAXIMUM OF 6 INCHES FROM THE CENTERLINE OF THE PARKING SPACE. ITS SIDES PARALLEL TO THE LENGTH OF THE PARKING SPACE AND ITS LOWER CORNER AT, OR LOWER SIDE ALIGNED WITH, THE END OF THE PARKING SPACE LENGTH.




ACCESSIBLE STALL SIGNAGE


NEW SIGN AT VAN ACCESSIBLE PARKING SPACE

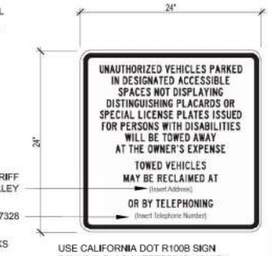
FIGURE A


NEW SIGN AT SECOND ACCESSIBLE PARKING SPACE

FIGURE B

INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA)

FIGURE C




USE CALIFORNIA DOT R100B SIGN
24" X 24", BLACK LETTERING: 1" HIGH,
BLACK BACKGROUND: WHITE, REFLECTORIZED

ATTACHED SIGN TO POLE WITH FOOTING, PER DETAIL THIS SHEET.
SEE SITE PLAN FOR LOCATION.

FIGURE D

## 1 ACCESS SIGNAGE
SCALE: N.T.S.

06-20-2024



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|---|---|---|---|---|---|
| MARK | DATE | INITIAL | DESCRIPTION | APPR. | DATE |

PLANS APPROVED BY:
SAN BERNARDINO COUNTY - PUBLIC WORKS
SPECIAL DISTRICTS
David Doublet
ASSISTANT DIRECTOR
Digitally signed by David Doublet
Date: 2024.06.24 15:01:22 -07'00'
DATE

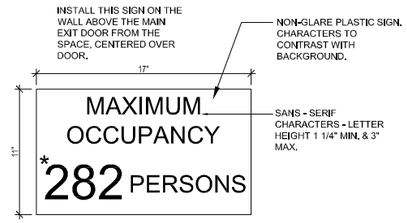
| APPROVALS | INITIAL | DATE |
|---|---|---|
| PROJECT MANAGER | Alfonso Fausto | |
| OPS, DIVISION MANAGER | Henry Mac | |
| PW, DIVISION MANAGER | Noel Mondragon | |

IMPROVEMENT PLANS

**CSA 29 LUCERNE VALLEY COMMUNITY CENTER RENOVATION PROJECT**

**ACCESS COMPLIANCE NOTES**

DWG NO.
FILE NO.
SHEET **T-1.2**

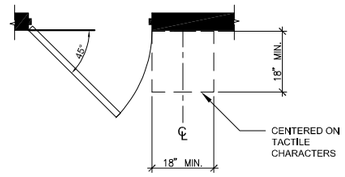



SIGN TO BE PROVIDED IN A CONSPICUOUS PLACE, NEAR THE MAIN EXIT OR EXIT ACCESS DOORWAY. CBC 1004.9

* VERIFY NUMBER OF OCCUPANTS WITH ARCHITECT PRIOR TO FABRICATION

## 12 MAXIMUM OCCUPANCY SIGN

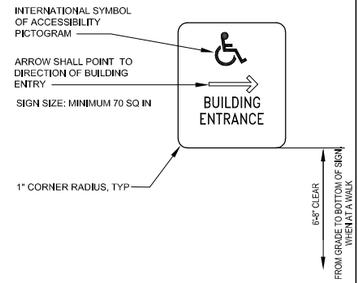
SCALE: N.T.S.




NOTE: THIS DETAIL APPLIES TO ALL TACTILE SIGNS PLACED ADJACENT TO DOORS.
REF: CBC FIGURE 11B-03.4.2

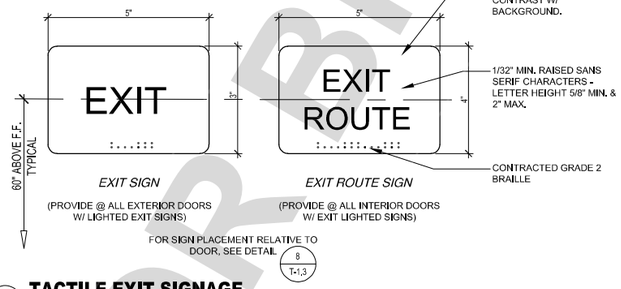
## 8 LOCATION OF TACTILE SIGNS AT DOORS

SCALE: N.T.S.




## 4 WAYFINDING SIGNAGE

SCALE: N.T.S.




*EXIT SIGN*

(PROVIDE @ ALL EXTERIOR DOORS W/ LIGHTED EXIT SIGNS)

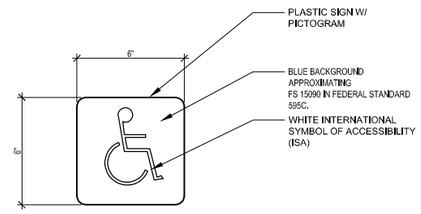
*EXIT ROUTE SIGN*

(PROVIDE @ ALL INTERIOR DOORS W/ EXIT LIGHTED SIGNS)

FOR SIGN PLACEMENT RELATIVE TO DOOR, SEE DETAIL. 8/T-1.3

## 11 TACTILE EXIT SIGNAGE

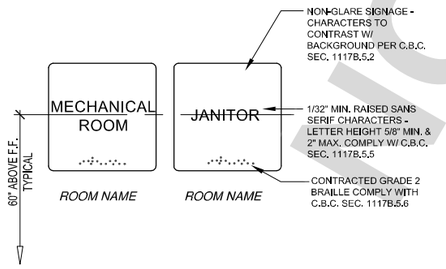
SCALE: 3" = 1'-0"




SIGN TO BE PROVIDED AT ENTRANCE DOORS WHERE SHOWN ON PLANS
FOR SIGN PLACEMENT RELATIVE TO DOOR SEE DETAIL. 8/T-1.3

## 3 BUILDING ENTRY ACCESSIBLE SIGN

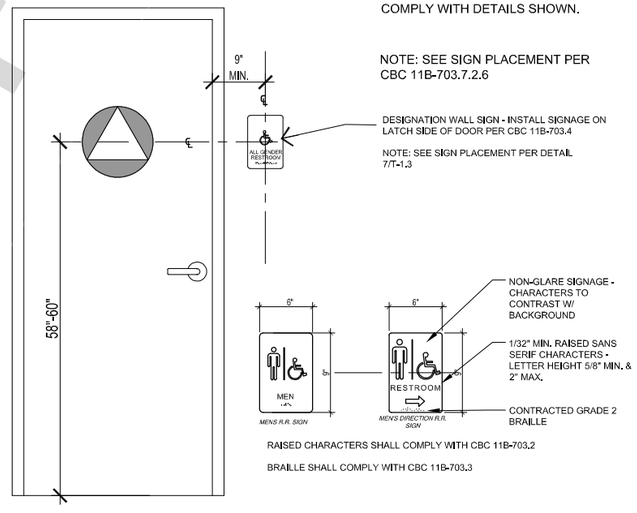
SCALE: N.T.S.




*ROOM NAME* *ROOM NAME*

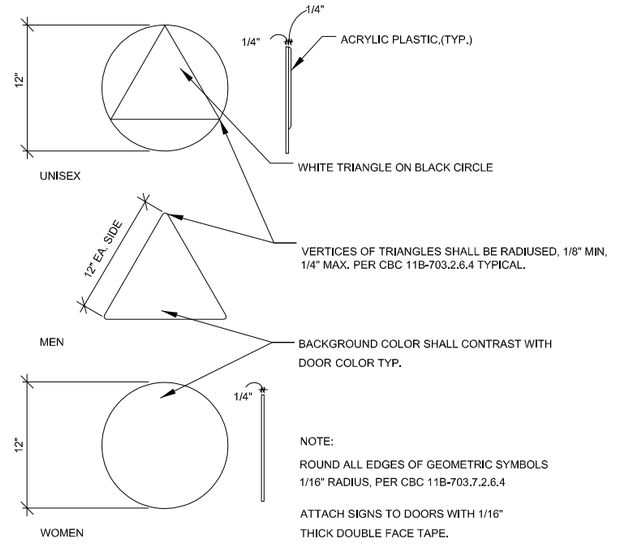
## 13 ROOM IDENTIFICATION SIGNG

SCALE: 3" = 1'-0"




## 9 RESTROOM SIGNS

SCALE: N.T.S.

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PLANS APPROVED BY:
SAN BERNARDINO COUNTY - PUBLIC WORKS
SPECIAL DISTRICTS

David Doublet — Digitally signed by David Doublet Date: 2024.06.24 15:03:26 -07'00'
ASSISTANT DIRECTOR — DATE

| APPROVALS | | INITIAL | DATE |
|---|---|---|---|
| | PROJECT MANAGER | Alfonso Fausto | Digitally signed by Alfonso Fausto Date: 2024.06.24 14:47:09 -07'00' |
| | OPS. DIVISION MANAGER | Henry Mac | |
| | PW. DIVISION MANAGER | Noel Mondragon | |

IMPROVEMENT PLANS

**CSA 29 LUCERNE VALLEY COMMUNITY CENTER RENOVATION PROJECT**

**ACCESS SIGNAGE**

DWG NO.

FILE NO.

SHEET **T-1.3**

# CHAPTER 3
# GREEN BUILDING
## SECTION 301 GENERAL

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

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

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

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

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

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

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

## SECTION 302 MIXED OCCUPANCY BUILDINGS

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

## SECTION 303 PHASED PROJECTS

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

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

## ABBREVIATION DEFINITIONS:

| | |
|---|---|
| HCD | Department of Housing and Community Development |
| BSC | California Building Standards Commission |
| DSA-SS | Division of the State Architect, Structural Safety |
| OSHPD | Office of Statewide Health Planning and Development |
| LR | Low Rise |
| HR | High Rise |
| AA | Additions and Alterations |
| N | New |

# CHAPTER 5
# NONRESIDENTIAL MANDATORY MEASURES
# DIVISION 5.1 PLANNING AND DESIGN
## SECTION 5.101 GENERAL

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

## SECTION 5.102 DEFINITIONS

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

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

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

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

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

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

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

**Note:** Source: Vehicle Code, Division 1, Section 668

**ZEV.** Any vehicle certified to zero-emission standards.

## SECTION 5.106 SITE DEVELOPMENT

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

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

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

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

**5.106.2 STORMWATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB ONE OR MORE ACRES OF LAND.** Comply with all lawfully enacted stormwater discharge regulations for projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of a larger common plan of development sale.

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

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

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

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

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

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

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

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

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

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

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

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

**5.106.4.2 Bicycle parking. [DSA-SS]** For public schools and community colleges, comply with Sections 5.106.4.2.1 and 5.106.4.2.2

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

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

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

Exceptions:

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

**5.106.5.3.1 EV capable spaces.**
**[N]** EV capable spaces shall be provided in accordance with Table 5.106.5.3.1 and the following requirements:

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

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

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

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

**5.106.5.3.2 Electric vehicle charging stations (EVCS)**
EV capable spaces shall be provided with EVSE to create EVCS in the number indicated in Table 5.106.5.3.1. The EVCS required by Table 5.106.5.3.1 may be provided with EVSE in any combination of Level 2 and Direct Current Fast Charging (DCFC), except that at least one Level 2 EVSE shall be provided.

One EV charger with multiple connectors capable of charging multiple EVs simultaneously shall be permitted if the electrical load capacity required by Section 5.106.5.3.1 for each EV capable space is accumulatively supplied to the EV charger.

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

**5.106.5.3.3 Use of automatic load management systems (ALMS).**
ALMS shall be permitted for EVCS. When ALMS is installed, the required electrical load capacity specified in Section 5.106.5.3.1 for each EVCS may be reduced when serviced by an EVSE controlled by an ALMS. Each EVSE controlled by an ALMS shall deliver a minimum 30 amperes to an EV when charging one vehicle and shall deliver a minimum 3.3 kW while simultaneously charging multiple EVs.

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

**5.106.5.4 Electric Vehicle (EV) charging: medium-duty and heavy-duty. [N]**
Construction shall comply with section 5.106.5.4.1 to facilitate future installation of electric vehicle supply equipment (EVSE). Construction for warehouses, grocery stores and retail stores with planned off-street loading spaces shall also comply with Section 5.106.5.4.1 for future installation of medium- and heavy-duty EVSE.
Exceptions:
1. On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions:
   a. Where there is no local utility power supply.
   b. Where the local utility is unable to supply adequate power.
   c. Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.

When EVSE(s) is/are installed, it shall be in accordance with the *California Building Code*, the *California Electrical Code* and as follows:

**5.106.5.4.1 Electric vehicle charging readiness requirements for warehouse, grocery stores and retail stores with planned off-street loading spaces.**
[N] In order to avoid future demolition when adding EV charging supply and distribution equipment, spare raceways(s) or busway(s) and adequate capacity for transformers(s), service panels(s) or subpanel(s) shall be installed at the time of construction in accordance with the California Electrical Code. Construction plans and specifications shall include but are not limited to, the following:
1. The transformer, main service equipment and subpanel shall meet the minimum power requirement in Table 5.106.5.4.1 to accommodate the dedicated branch circuits for the future installation of EVSE.
2. The construction documents shall indicate on or more location(s) convenient to the planned offstreet loading space(s) reserved for medium-and heavy-duty ZEV charging cabinets and charging dispensers, and a pathway reserved for routing of conduit from the termination of the raceway(s) or busway(s) to the charging cabinet(s) and dispenser(s) as shown in Table 5.106.5.4.1
3. Raceway(s) or busway(s) originating at a main service panel or a subpanel(s) serving the area where potential future medium-and heavy-duty EVSE will be located and shall terminate in close proximity to the potential future location of the charging equipments for medium- and heavy-duty vehicles.
4. The raceway(s) or busway(s) shall be sufficient size to carry the minimum additional system load to the future location of the charging for medium- and heavy-duty ZEVs as shown in Table 5.106.5.4.1.

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

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

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

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

**Exceptions: [N]**

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

| TABLE 5.106.8 [N] MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT AND GLARE (BUG) RATINGS 1,2 | | | | | |
|---|---|---|---|---|---|
| **ALLOWABLE RATING** | **LIGHTING ZONE LZ0** | **LIGHTING ZONE LZ1** | **LIGHTING ZONE LZ2** | **LIGHTING ZONE LZ3** | **LIGHTING ZONE LZ4** |
| **MAXIMUM ALLOWABLE BACKLIGHT RATING** 3 | | | | | |
| Luminaire greater than 2 mounting heights (MH) from property line | N/A | No Limit | No Limit | No Limit | No Limit |
| Luminaire back hemisphere is 1-2 MH from property line | N/A | B2 | B3 | B4 | B4 |
| Luminaire back hemisphere is 0.5-1 MH from property line | N/A | B1 | B2 | B3 | B3 |
| Luminaire back hemisphere is less than 0.5 MH from property line | N/A | B0 | B0 | B1 | B2 |
| **MAXIMUM ALLOWABLE UPLIGHT RATING (U)** | | | | | |
| For area lighting 3 | N/A | U0 | U0 | U0 | U0 |
| For all other outdoor lighting,including decorative luminaires | N/A | U1 | U2 | U3 | UR |
| **MAXIMUM ALLOWABLE GLARE RATING 4 (G)** | | | | | |
| **MAXIMUM ALLOWABLE GLARE RATING 4 (G)** | N/A | G1 | G2 | G3 | G4 |
| **MAXIMUM ALLOWABLE GLARE RATING 4 (G)** | N/A | G0 | G1 | G1 | G2 |
| **MAXIMUM ALLOWABLE GLARE RATING 4 (G)** | N/A | G0 | G0 | G1 | G1 |
| **MAXIMUM ALLOWABLE GLARE RATING 4 (G)** | N/A | G0 | G0 | G0 | G1 |

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

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

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

**5.106.8.1 Facing- Backlight**
Luminaries within 2MH of a property line shall be oriented so that the nearest property line is behind the fixture, and shall comply with the backlight rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point of that property line.
**Exception: Corners.** If two property lines (or two segments of the same property line) have equidistant point to the luminaire, then the luminaire may be oriented so that the intersection of the two lines (the corner) is directly behind the luminaire. The luminaire shall still use the distance to the nearest points(s) on the property lines to determine the required backlight rating.

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

**Note: [N]**
1.See also *California Building Code*, Chapter 12, Section 1205.6 for college campus lighting requirements for parking facilities and walkways.
2.Refer to Chapter 8 (Compliance Forms, Worksheets and Reference Material) for IES TM-15-11 Table A-1, *California Energy Code* Tables 130.2-A and 130.2-B.
3. Refer to the *California Building Code* for requirements for additions and alterations.

**5.106.10 GRADING AND PAVING.** Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following:

1. Swales.
2. Water collection and disposal systems.
3. French drains.
4. Water retention gardens.
5. Other water measures which keep surface water away from buildings and aid in groundwater recharge.
   **Exception:** Additions and alterations not altering the drainage path.

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

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

**Exceptions:** Surface parking area covered by solar photovoltaic shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5 shall be permitted in whole or in part in lieu of shade tree planting.

**5.106.12.2 Landscape areas.** Shade tress plantings, minimum #10 container size or equal shall be installed to provide shade of 20% of the landscape area within 15 years.

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

**5.106,12.3. Hardscape areas.** Shade tree plantings, minimum #10 container size or equal shall be installed to provide shade over 20 percent of the hardscape area within 15 years.

**Exceptions:**
1. Walks, hardscape areas covered by solar photovoltaic shade structures or shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5 shall be permitted in whole or in part in lieu of shade tree planting.
2. Designated and marked play areas of organized sport activity are not included in the total area calculation.

**DISCLAIMER:** *THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS CODE. IT IS NOT INTENDED TO BE USED AS A RULE BETWEEN BUILDING DEPARTMENT JURISDICTIONS. THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND IT IS THE RESPONSIBILITY OF THE USER TO ADAPT IT TO THEIR INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.*

# 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
# NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2023)

Y : YES, APPLICABLE
N/A : NOT APPLICABLE
RESPON. PARTY : KEY ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

06-20-2024



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2900 ADAMS STREET STUDIO A-600 RIVERSIDE, CA 92504
www.rdesigngroup.com

REVISIONS

| MARK | DATE | INITIAL | DESCRIPTION | APPR. | DATE |
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PLANS APPROVED BY:
SAN BERNARDINO COUNTY - PUBLIC WORKS
SPECIAL DISTRICTS
David Doublet
Digitally signed by David Doublet
Date: 2024.06.24 15:24:58 -07'00'
ASSISTANT DIRECTOR — DATE

| APPROVALS | | INITIAL | DATE |
|---|---|---|---|
| | PROJECT MANAGER | Alfonso Fausto | |
| | OPS. DIVISION MANAGER | Henry Mac | |
| | PW. DIVISION MANAGER | Noel Mondragon | |

IMPROVEMENT PLANS

**CSA 29 LUCERNE VALLEY COMMUNITY CENTER RENOVATION PROJECT**

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