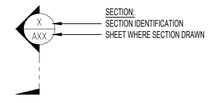
ABBREVIATIONS

A.B.	ANCHOR BOLT
A.C.	ASPHALT CONCRETE
A/C	AIR CONDITIONING
ACOUS.	ACOUSTIC(AL)
A.A.	AREA DRAIN
ADJ.	ADJACENT
A.F.F.	ABOVE FINISH FLOOR
ALUM.	ALUMINIUM
ANOD.	ANODIZED
A.P.	ACCESS PANEL
AUTO.	AUTOMATIC
ARCH.	ARCHITECTURAL
BD.	BOARD
BIT.	BITUMINOUS
BLDG.	BUILDING
BLK(G).	BLOCKING
B.N.	BOUNDARY NAIL
B.O.	BOTTOM OF
BOT(T).	BOTTOM
B.S.	BOTH SIDES
BTW.	BETWEEN
CAB.	CABINET
C.B.	CATCH BASIN
CEM.	CEMENT
C.F.	CUBIC FEET
C'FLASH	COUNTER FLASHING
C.I.	CAST IRON
C.J.	CONTROL JOINT
CLG.	CEILING
CLOS.	CLOSET
CLR.	CLEAR
C.O.	CLEAN OUT
C.O.C.	CENTERLINE OF COLUMN
COL.	COLUMN
CONC.	CONCRETE
COND.	CONDITION
CONT.	CONTINUOUS
CONTR.	CONTRACTOR
CONST.	ONSTRUCTION
CORR.	CORRIDOR
C.S.	COUNTERSINK
C.T.	CERAMIC TILE
C.Y.	CUBIC YARD
DEPT.	DEPARTMENT
DET.	DETAIL
D.F.	DOUGLAS FIR OR DRINKING FOUNTAIN
DIA.	DIAMETER
DIM.	DIMENSION
DISP.	DISPENSER
DN.	DOWN
D.S.	DOWNSPOUT
DWG.	DRAWING
EA.	EACH
E.A.G.	EXHAUST AIR GRILLE
E.J.	EXPANSION JOINT
ELEV.	ELEVATION
ELEC.	ELECTRIC(AL)
EMER.	EMERGENCY
E.N.	EDGE NAIL
E.P.	ELECTRICAL PANEL
EQ.	EQUAL
EQUIP.	EQUIPMENT
E.S.	EACH SIDE
E.W.C.	ELECTRIC WATER COOLER
(E)	EXISTING
EXT.	EXTERIOR
F.A.	FIRE ALARM
F.D.	FLOOR DRAIN
F.D.C.	FIRE DEPT. CONNECTION
F.E.	FIRE EXTINGUISHER
F.F.	FACTORY FINISH OR FINISH FACE
F.F.E.	FINISH FLOOR ELEVATION
F.H.	FIRE HYDRANT
FIN.	FINISH
FIXT.	FIXTURE
FLR.	FLOOR
FLASH	FLASHING
F.L.	FLOW LINE
FLUOR.	FLUORESCENT
F.O.C.	FACE OF COLUMN
F.O.M.	FACE OF MASONRY
F.O.S.	FACE OF STUD
FT	FEET OR FOOT
F.S.	FLOOR SINK
FTG.	FOOTING
FUR(R).	FURRING
GA.	GAUGE
GALV.	GALVANIZED
G.I.	GALVANIZED IRON
GYP.	GYPSUM
H.B.	HOSE BIBB
H.C.	HOLLOW CORE
HDBD.	HARD BOARD
HDR.	HEADER
HDW.	HARDWARE
HDWD.	HARDWOOD
H.M.	HOLLOW METAL
HORZ.	HORIZONTAL
I.D.	INSIDE DIAMETER
I.E.	INVERT ELEVATION
INSUL.	INSULATION
INT.	INTERIOR
JST.	JOIST
JT.	JOINT
KIT	KITCHEN
LAV.	LAVATORY
LB.	POUND
L.B.	LAG BOLT
LT.	LIGHT
(M)	MODIFIED
MAS.	MASONRY
MATL.	MATERIAL
MAX.	MAXIMUM
M.B.	MACHINE BOLT
MECH.	MECHANICAL
MEMB.	MEMBRANE
MET.	METAL
MFR.	MANUFACTURER
M.H.	MANHOLE
MIN.	MINIMUM
MISC.	MISCELLANEOUS
M.O.	MASONRY OPENING
M.R.	MOISTURE RESISTANT
MTD.	MOUNTED
MULL.	MULLION
(N)	NEW
N.A.P.	NOT A PART
N.I.C.	NOT IN CONTRACT
NO.	NUMBER
NOM.	NOMINAL
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.F.D.	OVERFLOW DRAIN
OFC.	OFFICE
OPN'G	OPENING
OPP.	OPPOSITE
PART.	PARTICLE
PARTN	PARTITION
P.L.	PROPERTY LINE OR PLATE
P.LAM.	PLASTIC LAMINATE
PLAS.	PLASTER
P.O.C.	POINT OF CONNECTION
PR.	PAIR
PT.	POINT
PLYWD.	PLYWOOD
P.T.	PRESSURE TREATED
R.	RISER
RAD.	RADIUS
R.A.G.	RETURN AIR GRILLE
R.D.	ROOF DRAIN
RDWD.	REDWOOD
REF.	REFERENCE
REFR.	REFRIGERATOR
REG.	REGISTER
REINF.	REINFORCED
REQ'D	REQUIRED
RES'L	RESILIENT
RM.	ROOM
R.O.	ROUGH OPENING
R.O.W.	RIGHT-OF-WAY
R.S.	RESAWN
S.A.G.	SUPPLY AIR GRILLE
S.A.R.	SUPPLY AIR REGISTER
S.C.	SOLID CORE
SCHED.	SCHEDULE
S.A.	STORM DRAIN
SECT.	SECTION
S.F.	SQUARE FEET
SHT.	SHEET
SHTG.	SHEATHING
SIM.	SIMILAR
S.M.	SHEET METAL
S.O.V.	SHUT-OFF VALVE
SP.	SPACE(S)
SPECS.	SPECIFICATIONS
SQ.	SQUARE
S.S.	STAINLESS STEEL
STL.	STEEL
STOR.	STORAGE
STRUCT.	STRUCTURAL
SUSP.	SUSPENDED
T.C.F.O.	TEMPORARY CERTIFICATE OF OCCUPANCY
T.	TREAD
T.O.C.	TOP OF CURB
TEL(E)	TELEPHONE
T.O.F.	TOP OF FOOTING
T&G	TONGUE AND GROOVE
THK.	THICK
T.N.	TOE NAIL
T.O.	TOP OF
T.O.P.	TOP OF PARAPET
T.O.S.	TOP OF SHEATHING
T.O.W.	TOP OF WALL
T.O.TR.	TOP OF TRELLIS
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
UR.	URINAL
VERT.	VERTICAL
VEST.	VESTIBULE
VCT.	VINYL COMPOSITION TILE
V.T.R.	VENT THRU ROOF
V.I.F.	VERIFY IN FIELD
W/	WITH
WAIN.	WAINSCOT
W.C.	WATER CLOSET
WD.	WOOD
WDW.	WINDOW
W.H.	WATER HEATER
W.M.	WATER METER
W.P.	WATERPROOF
W.P.J.	WEAKENED PLANE JOINT
W.R.	WATER RESISTANT
W.W.M.	WELDED WIRE MESH
<	ANGLE
@	AT
Ø	DIAMETER OR ROUND
℄	CENTERLINE

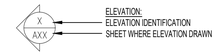
GRAPHIC SYMBOLS

STRUCTURAL GRID LINE:
COLUMN LINE OR OUTSIDE FACE OF BUILDING



SECTION:
SECTION IDENTIFICATION
SHEET WHERE SECTION DRAWN

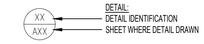
DOOR NUMBER IDENTIFICATION



ELEVATION:
ELEVATION IDENTIFICATION
SHEET WHERE ELEVATION DRAWN

WINDOW IDENTIFICATION

KEYNOTE



DETAIL:
DETAIL IDENTIFICATION
SHEET WHERE DETAIL DRAWN

MATERIAL/FINISH TYPE DESIGNATION
(SHOWN ON EXTERIOR ELEVATIONS)


REFERENCE POINT:
CONTROL POINT, DATUM POINT,
WORK POINT, POINT OF CONNECTION

FINISHED FACE DIMENSION
CENTERLINE DIMENSION
FACE OF STUD, MASONRY,
CONCRETE, ETC.

REVISION:
CLOUD AROUND CHANGE WITH DELTA

ROOF PITCH
(SHOWN ON EXTERIOR ELEVATIONS)

FALLBROOK
HEALTH & WELLNESS CENTER

1636 E. MISSION RD,
FALLBROOK, CA 92028

PROJECT DATA

PROJECT ADDRESS:	1636 E. MISSION RD, FALLBROOK, CA 92028
APN#:	760-197-04-00
LEGAL DESCRIPTION:	PUBLIC LAND SEC18-9-3W*SEQ*LEASE IN 12,060 SQ FT IN
ZONING DESIGNATION:	-
OVERLAY ZONE:	-
PROPOSED PROJECT:	
STORIES:	EXISTING BUILDING: 1 STORY [NO CHANGE] PROPOSED T.I.: 1 STORY [NO CHANGE]
TYPE OF CONSTRUCTION:	TYPE VB, FULLY SPRINKLERED
BUILDING AREA:	±7,500 SF
PROPOSED T.I. FLOOR AREA:	7,500 SF (INTERIOR T.I.)
YEAR BUILDING CONSTRUCTED:	-
EXISTING USE:	HEALTH & WELLNESS CENTER
PROPOSED USE:	HEALTH & WELLNESS CENTER
OCCUPANCY CLASSIFICATION:	B

PROJECT DIRECTORY

BUILDING OWNER & PROPERTY MANAGEMENT	FALLBROOK REGIONAL HEALTH DISTRICT 138 S. BRANDON RD FALLBROOK, CA 92028 TEL: (760) 731-9187 EMAIL: RMASON@FALLBROOKHEALTH.ORG CONTACT: RACHEL MASON
DESIGNER	ARCH5 DESIGN STUDIO 2825 DEWEY ROAD, UNIT 207 SAN DIEGO, CA 92106 TEL: (619) 546-9670 EMAIL: ADMIN@ARCH5.DESIGN CONTACT: RACHELLE DOMINGO-ROGERS

SCOPE OF WORK

- EXISTING (2) MULTI-STALL RESTROOMS ON EAST WING TO BE DEMOLISHED AND REPLACED WITH NEW (2) SINGLE-USER / NON-GENDER RESTROOMS (75 SF EACH), NEW STORAGE ROOM (125 SF), NEW HALL (75 SF) ACCESS TO NEW SINGLE-USER RESTROOMS AND NEW PREP ROOM (125 SF)
- EXISTING (2) MULTI-STALL RESTROOMS ON WEST WING TO BE REMODELED (370 SF)
- NEW PLUMBING FIXTURES AND ACCESSORIES
- NEW INTERIOR FINISHES
- NEW NON-LOAD BEARING WALLS
- DEMO EXISTING PARTITION WALL AND REPLACE WITH NEW FOLDING PARTITION WALL

INDEX OF DRAWINGS

GENERAL

T0.0	TITLE SHEET
T1.1	GENERAL NOTES
T1.2	ACCESSIBILITY NOTES
T1.3	ACCESSIBILITY NOTES
T1.4	ACCESSIBILITY NOTES
T1.5	ACCESSIBILITY NOTES
T1.6	ACCESSIBILITY NOTES
T1.7	ACCESSIBILITY NOTES
T2.0	CAL GREEN NOTES
T2.1	CAL GREEN NOTES
T2.2	CAL GREEN NOTES

INTERIOR DESIGN

ID0.0	GENERAL NOTES
ID0.1	EXISTING/DEMO FLOOR PLAN
ID1.0	FINISH PLAN & SCHEDULE
ID1.1	PREP ROOM ELEVATIONS & SCHEDULES
ID2.0	ENLARGED RESTROOM PLANS AND ELEVATIONS - GENDER NEUTRAL
ID2.1	ENLARGED RESTROOM PLANS AND ELEVATIONS - MULTI STALL

CURRENT GOVERNING CODES

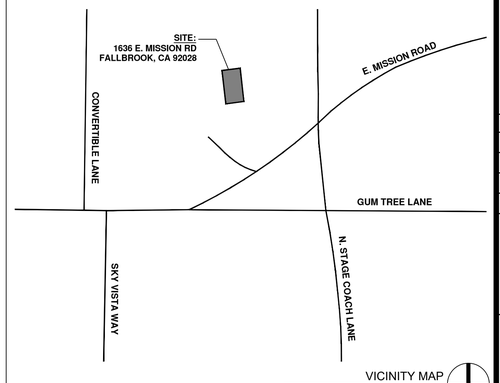
ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF THE LOCAL FIRE MARSHALL, THE COUNTY OF SAN DIEGO BUILDING OFFICIALS AND UTILITY COMPANIES FURNISHING SERVICES. NOTHING IN THE PLANS OR SPECIFICATIONS SHALL BE CONSTRUCTED AS PERMITTING WORK THAT IS NOT IN CONFORMANCE WITH APPLICABLE CODES OR REGULATIONS. CODES GOVERNING THIS WORK INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:

- THE 2022 CALIFORNIA BUILDING (CBC) IS BASED ON THE 2021 IBC, BUT INCLUDES NUMEROUS STATE OF CALIFORNIA AMENDMENTS.
- THE 2022 CALIFORNIA ELECTRICAL CODE (CEC) IS BASED ON THE 2020 NEC WITH STATE OF CALIFORNIA AMENDMENTS.
- THE 2022 CALIFORNIA MECHANICAL CODE (CMC) IS BASED ON THE 2021 UMC WITH STATE OF CALIFORNIA AMENDMENTS.
- THE 2022 CALIFORNIA PLUMBING CODE (CPC) IS BASED ON THE 2021 UPC WITH STATE OF CALIFORNIA AMENDMENTS.
- THE 2022 CALIFORNIA ENERGY CODE.
- THE 2022 CALIFORNIA FIRE CODE
- THE 2022 CALIFORNIA AMENDMENTS AMERICANS WITH DISABILITIES ACT (CALIFORNIA BUILDING CODE - CHAPTER 11)
- THE 2022 CALIFORNIA GREEN BUILDING STANDARDS
- THE 2022 CALIFORNIA EXISTING BUILDING CODE
- ASSOCIATED CITY OF FAIR OAKS AMENDMENTS

THESE PLANS AND ALL NEW WORK SHALL COMPLY WITH THE CALIFORNIA BUILDING STANDARDS CODE FOUND IN THE STATE OF CALIFORNIA - TITLE 24 CCR AS AMENDED AND ADOPTED BY THE COUNTY OF SAN DIEGO.

REQUIREMENTS OF CODES AND REGULATIONS SHALL BE CONSIDERED AS MINIMUM. WHERE CONTRACT DOCUMENTS EXCEED W/O VIOLATING CODE AND REGULATION REQUIREMENTS, CONTRACT DOCUMENTS SHALL TAKE PRECEDENCE. WHERE CODES CONFLICT, THE MORE STRINGENT SHALL APPLY.

VICINITY MAP



VICINITY MAP
NOT TO SCALE

arch5design
2825 Dewey Road, Unit 207
San Diego, CA 92106
Phone: 619.546.9670

FALLBROOK
HEALTH & WELLNESS CENTER
1636 E. MISSION RD
FALLBROOK, CA 92028

REVISIONS

DESCRIPTION	DATE
BID SET – NOT FOR CONSTRUCTION	10/23/24

Bid Issue Date:	10/23/24
Date:	1/17/25
Scale:	AS NOTED
Project No.	
Sheet Title:	TITLE SHEET
Sheet No.:	T0.0

FIRE DEPARTMENT NOTES

1. BUILDINGS UNDERGOING CONSTRUCTION, ALTERATION OR DEMOLITION SHALL BE IN ACCORDANCE WITH CFC CH. 33.
2. ADDRESS SHALL BE PROVIDED FOR ALL NEW AND EXISTING BUILDINGS IN A POSITION AS TO BE PLAINLY VISIBLE AND LEGIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY.
3. DECORATIVE MATERIALS SHALL BE MAINTAINED IN A FLAME-RETARDANT CONDITION.
4. AT LEAST ONE FIRE EXTINGUISHER WITH A MINIMUM RATING OF 2-A-10B:C SHALL BE PROVIDED WITHIN 75 FEET MAXIMUM TRAVEL DISTANCE FOR EACH 6,000 SQUARE FEET OR PORTION THEREOF ON EACH FLOOR. 2022 CFC 906.
5. PROVIDE AN APPROVED MANUAL/AUTOMATIC FIRE ALARM SYSTEM. PLANS FOR THE FIRE ALARM SYSTEM SHALL BE SUBMITTED TO THE FIRE DEPARTMENT JURISDICTION FIRE PREVENTION BUREAU PRIOR TO INSTALLATION. 2022 CFC SECTION 901.
6. A FIRE EXTINGUISHER LISTED AND LABELED FOR CLASS K FIRES SHALL BE INSTALLED WITHIN 30 FEET OF COMMERCIAL FOOD HEAT-PROCESSING EQUIPMENT.
7. ALL VALVES CONTROLLING THE WATER SUPPLY FOR AUTOMATIC SPRINKLER SYSTEMS AND WATER-FLOW SWITCHES ON ALL SPRINKLER SYSTEMS SHALL BE ELECTRICALLY MONITORED WHERE THE NUMBER OF SPRINKLERS IS MORE THAN 6.
8. FIRE-EXTINGUISHING SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH CBC 904 AND COMPLY WITH CFC STANDARDS.
9. ALL FIRE ALARM SYSTEMS SHALL BE IN ACCORDANCE WITH 2022 CFC SEC 907.
10. ANY ROOM HAVING AN OCCUPANT LOAD OF 50 OR MORE PERSONS WHERE FIXED SEATS ARE NOT INSTALLED, AND WHICH IS USED FOR ASSEMBLY, CLASSROOM, DINING, DRINKING, OR SIMILAR PURPOSES, SHALL HAVE THE MAXIMUM CAPACITY OF THE ROOM POSTED ON AN APPROVED SIGN IN A CONSPICUOUS PLACE NEAR THE MAIN EXIT FROM THE ROOM. SHOW SIGN DESIGN AND LOCATION ON THE PLANS.
11. ANYTIME A BUILDING IS OCCUPIED, THE MEANS OF EGRESS SHALL BE ILLUMINATED AT AN INTENSITY OF NOT LESS THAN 1 FOOTCANDLE AT THE FLOOR LEVEL.
12. EGRESS ILLUMINATION REQUIRES A SOURCE OF EMERGENCY POWER ANYTIME TWO OR MORE EXITS ARE REQUIRED. FOR AN A-2 OCCUPANCY: WHEN OCC. LOAD IS 50 OR MORE PERSONS.
13. PROVIDE AN APPROVED FIRE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13. PLANS FOR THE INSTALLATION OR MODIFICATION OF THE SPRINKLER SYSTEM SHALL BE SUBMITTED FOR APPROVAL TO CSFM PRIOR TO INSTALLATION. 2022 CFC SECTION 903.
14. INTERIOR FINISHES AND COMBUSTIBLE DECORATIVE MATERIALS SHALL COMPLY WITH 2022 CFC SECTION 801.
15. COMPLETE PLANS AND SPECIFICATIONS FOR FIRE ALARM SHALL BE SUBMITTED TO THE FIRE DEPARTMENT JURISDICTION SERVICES FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION (2022 CFC 907.1.1.).
16. LOCATIONS AND CLASSIFICATIONS OF EXTINGUISHERS SHALL BE IN ACCORDANCE WITH 2022 CFC 906 AND CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 19.
17. DURING CONSTRUCTION, AT LEAST ONE EXTINGUISHER SHALL BE PROVIDED ON EACH FLOOR LEVEL AT EAH STAIRWAY, IN ALL STORAGE AND CONSTRUCTION SHEDS, IN LOCATIONS WHERE FLAMMABLE OR COMBUSTIBLE LIQUIDS ARE STORED OR USED, AND WHERE OTHER SPECIAL HAZARDS ARE PRESENT PER CFC SECTION 3315.1.
18. COMPLETE PLANS AND SPECIFICATION FOR ALL FIRE EXTINGUISHER SYSTEMS, INCLUDING AUTOMATIC SPRINKLER AND STANDPIPE SYSTEMS INCLUDING AUTOMATIC SPRINKLER AND STANDPIPE SYSTEMS AND OTHER SPECIAL FIRE EXTINGUISHING SYSTEMS AND RELATED APPURTENANCES SHALL BE SUBMITTED TO THE FIRE DEPARTMENT JURISDICTION FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. 2022 CFC SECTIONS, 105.4.1, 107.2.1 AND 901.2
19. IN BUILDINGS THAT REQUIRE STANDPIPES, STANDPIPES SHALL BE PROVIDED DURING CONSTRUCTION WHEN THE HEIGHT REACHES 40 FEET ABOVE THE LOWEST LEVEL OF FIRE DEPARTMENT VEHICLE ACCESS. A FIRE DEPARTMENT CONNECTION SHALL BE NO MORE THAN 100 FEET FROM AVAILABLE FIRE DEPARTMENT VEHICLE ACCESS ROADWAYS.
20. BUILDINGS UNDERGOING CONSTRUCTION, ALTERATION, OR DEMOLITION SHALL CONFORM TO CFC CHAPTER 33. WELDING, CUTTING, AND OTHER HOT WORK SHALL IN CONFORMANCE WITH 2022 CFC CHAPTER 35.
21. KEY BOXES SHALL BE PROVIDED FOR ALL HIGH-RISE BUILDINGS, POOL ENCLOSURES, GATES IN THE PATH OF FIREFIGHTER TRAVEL TO STRUCTURES, SECURED PARKING LEVELS, DOORS GIVING ACCESS TO ALARM PANELS AND/OR ANNUNCIATORS, AND ANY OTHER STRUCTURES OR AREAS WHERE ACCESS TO AN AREA IS RESTRICTED.
22. ALL CODE REFERENCES ARE TO BE IN COMPLIANCE WITH THE HEALTH AND SAFETY CODE (HSC) SECTION 13145. CALIFORNIA CODE OF REGULATIONS (CCR), TITLE 19 AND TITLE 24, 2022 EDITION.
23. FIRE DEPARTMENT INSPECTIONS AREA REQUIRED. SCHEDULE ALL INSPECTIONS 2 DAYS IN ADVANCE.
24. A DETAILED LETTER CLEARLY IDENTIFYING ALL INTENDED USE(S) AND OPERATION(S) OF THE STRUCTURE(S) SHALL BE PROVIDED TO THE FIRE DEPARTMENT ALONG WITH THE SUBMITTALS.
25. IF ADDITIONS OF WALLS AND/OR OTHER TENANT IMPROVEMENTS OBSTRUCT OR EFFECT COVERAGE OR PERFORMANCE OF THE FIRE SPRINKLER SYSTEM AND/OR IF ANY MODIFICATION OF THE FIRE SPRINKLER SYSTEM IS NECESSARY, FIRE SPRINKLER TENANT IMPROVEMENT PLANS SHALL BE SUBMITTED TO CALIFORNIA STATE FIRE MARSHAL FOR APPROVAL PRIOR TO INSTALLATION.
26. EXIT DOOR SHALL SWING IN THE DIRECTION OF EXIT TRAVEL WHEN SERVING MORE THAN (50) PERSONS.
28. PROVIDE FIRE DEPARTMENT ACCESS TO THE FACILITY. "KNOX" KEY DEVICES ARE AVAILABLE FOR USE IN THE CITY. EXISTING BUILDING HAS APPROVED KNOX BOX LOCATION PER SHELL BUILDING PLANS.
29. PROVIDE KEYS TO FIRE DEPARTMENT TO PLACE IN KNOX BOX FOR EMERGENCY ACCESS. *2022 CALIFORNIA FIRE CODE CHAPTER 5 SECTION 506.2.*
30. ELECTRICAL:
    ALL CIRCUIT BREAKERS SHALL BE LABELED TO CLEARLY INDICATE AREAS SERVED. THE MAIN ELECTRICAL SHUT-OFF SHALL BE IDENTIFIED WITH EITHER THE BUSINESS NAME OR THE BUSINESS ADDRESS. *2023 NFPA 70*
31. NATURAL GAS:
    THE MAIN GAS SHUT-OFF TO THE BUILDING SHALL BE LABELED WITH EITHER THE BUSINESS NAME OR THE BUSINESS ADDRESS. PROTECTIVE STEEL POSTS FILLED WITH CONCRETE SHALL BE PLACED AROUND ALL METERS SUBJECT TO VEHICULAR TRAFFIC. CFC SECTION 304.1.
32. **EXTERIOR FIRE SPRINKLER RISER, FIRE ALARM BELL AND KNOX BOX SHALL BE UNOBSTRUCTED AT ALL TIMES AND NOT PAINTED OVER.**
33. NEW AND EXISTING BUILDINGS SHALL HAVE APPROVED ADDRESS NUMBERS, BUILDING NUMBERS OR APPROVED BUILDING IDENTIFICATION PLACED IN A POSITION THAT IS PLAINLY LEGIBLE AND VISIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY. THESE NUMBERS SHALL CONTRAST IN COLOR TO BACKGROUND. NUMBERS SHALL BE MINIMUM OF 4" HIGH WITH A MINIMUM STROKE WIDTH OF $\frac{1}{2}$ INCH. CFC SECTION 505.1.
34. STORAGE OF "HAZARDOUS MATERIALS" OR "HIGH PILED STORAGE" IS NOT PROPOSED.
35. PER CFC 506.1, WHERE ACCESS TO OR WITHIN A STRUCTURE OR AN AREA IS RESTRICTED BECAUSE OF SECURED OPENINGS OR WHERE IMMEDIATE ACCESS IS NECESSARY FOR LIFE-SAVING OR FIRE-FIGHTING PURPOSES, THE FIRE CODE OFFICIAL IS AUTHORIZED TO REQUIRE A KEY BOX TO BE INSTALLED IN AN APPROVED LOCATION. THE KEY BOX SHALL CONTAIN KEY(S) TO GAIN NECESSARY ACCESS AS REQUIRED BY THE FIRE CODE OFFICIAL.
36. REQUESTS FOR INSPECTIONS SHALL BE MADE 48 HOURS IN ADVANCE. INSPECTIONS SHALL BE MADE ONCE WORK IS COMPLETE, UTILIZING APPROVED AND STAMPED PLANS. CONTRACTOR SHALL BE REQUIRED TO HAVE THE APPROVED PLANS ON SITE PER CODE.
37. FIRE DEPARTMENT ACCESS FOR USE OF FIREFIGHTING EQUIPMENT SHALL ALWAYS BE PROVIDED TO THE IMMEDIATE JOB CONSTRUCTION SITE AT THE START OF CONSTRUCTION AND MAINTAINED UNTIL CONSTRUCTION AND MAINTAINED UNTIL CONSTRUCTION IS COMPLETED. ACCESS TO EACH PHASE OF DEVELOPMENT SHALL BE TO THE SATISFACTION OF THE CITY ENGINEER AND/OR CITY FIRE MARSHAL.
38. PRIOR TO DELIVERY OF COMBUSTIBLE BUILDING MATERIAL ON SITE, THE APPROVED VEHICLE ACCESS FOR FIREFIGHTING SHALL BE INSTALLED, SATISFACTORILY PASS ALL REQUIRED TESTS AND APPROVED BY THE CITY. ALL ACCESSES SHALL BE PROVIDED WITHIN 100' OF ALL FIRE DEPARTMENT CONNECTIONS. USE OF TEMPORARY VEHICLE ACCESS FOR FIGHTING MAY REQUIRE PLAN SUBMITTAL, REVIEW AND APPROVAL BY THE CITY.

STORMWATER NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP OF ALL SILT & MUD ON ADJACENT STREET(S), DUE TO CONSTRUCTION VEHICLES OF ANY OTHER CONSTRUCTION ACTIVITY, AT THE END OF EACH WORK DAY, OR AFTER A STORM EVENT THAT CAUSES A BREECH IN INSTALLED CONSTRUCTION BMP'S WHICH MAY COMPROMISE STORM WATER QUALITY WITHIN ANY STREET(S). A STABILIZED CONSTRUCTION EXIT MAY BE REQUIRED TO PREVENT CONSTRUCTION VEHICLES OR EQUIPMENT FROM TRACKING MUD OR SILT ON TO THE STREET.
2. ALL STOCKPILES OF SOIL &/OR BUILDING MATERIALS THAT ARE INTENDED TO BE LEFT FOR A PERIOD GREATER THAN 7 CALENDAR DAYS ARE TO BE COVERED. ALL REMOVABLE BMP DEVICES SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THE 5 DAY RAIN PROBABILITY FORECAST EXCEEDS 40%.
3. A CONCRETE WASHOUT AREA SHALL BE PROVIDED ON ALL PROJECTS WHICH PROPOSE THE CONSTRUCTION OF ANY CONCRETE IMPROVEMENT WHICH ARE TO BE POURED IN PLACE ON SITE.
4. THE CONTRACTOR SHALL RESTORE ALL EROSION/SEDIMENT CONTROL DEVICES TO WORKING ORDER AFTER EACH RUN-OFF PRODUCING RAINFALL OR AFTER ANY MATERIAL BREECH IN EFFECTIVENESS.
5. ALL SLOPES THAT ARE CREATED OR DISTURBED BY CONSTRUCTION ACTIVITY MUST BE PROTECTED AGAINST EROSION AND SEDIMENT TRANSPORT AT ALL TIMES.
6. THE STORAGE OF ALL CONSTRUCTION MATERIALS AND EQUIPMENT MUST BE PROTECTED AGAINST ANY POTENTIAL RELEASE OF POLLUTANT INTO THE ENVIRONMENT.
7. STORM WATER FROM DOWNSPOUTS AND IMPERVIOUS AREAS SHALL BE DISPERSE ONTO LANDSCAPE.
8. THE PROJECT PROPOSED TO EXPORT 0 CUBIC YARDS OF MATERIAL FROM THIS SITE. ALL EXPORT MATERIAL SHALL BE DISCHARGED TO A LEGAL DISPOSAL SITE. THE APPROVAL OF THIS PROJECT DOES NOT ALLOW PROCESSING AND SALE OF THE MATERIAL, ALL SUCH ACTIVITIES REQUIRE A SEPARATE CONDITIONAL USE PERMIT.

GENERAL NOTES

DESIGNER'S STATEMENT:

1. OVERLAPPING & CONFLICTING REQUIREMENTS:
   WHERE COMPLIANCE WITH TWO OR MORE INDUSTRY STANDARDS OR SETS OF REQUIREMENTS IS SPECIFIED, AND OVERLAPPING OF THOSE DIFFERENT STANDARDS OR REQUIREMENTS ESTABLISHES CONFLICTING LEVELS OF QUALITY, THE MOST STRINGENT STANDARD SHALL BE ENFORCED, UNLESS SPECIFICALLY NOTED OTHERWISE. CONSULT WITH THE DESIGNER/ENGINEER BEFORE PROCEEDING.
2. MINIMUM QUALITY / QUANTITY:
   INTENDED AS MINIMUM FOR THE WORK TO BE PERFORMED OR PROVIDED. EXCEPT WHERE NOTED OTHERWISE, ACTUAL WORK MY EITHER COMPLY EXACTLY WITH THAT MINIMUM, OR MAY EXCEED THAT MINIMUM WITHIN REASONABLE LIMITS.
3. NOTE TO CONTRACTOR:
   WHERE CONTRACT DOCUMENTS (DRAWINGS AND SPECIFICATIONS) ARE INCOMPLETE, AMBIGUOUS OR CONTAIN CONFLICTING INSTRUCTIONS, DO NOT PROCEED UNTIL RECEIVING CLARIFICATION FROM THE DESIGNER IN WRITING. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL BUILDING SYSTEMS, NEW AND EXISTING, ARE IN GOOD WORKING ORDER WHEN TURNED OVER TO THE OWNER.

GENERAL:

1. THE SPECIFICATIONS, INCLUDED HEREWITH, ARE AN INTEGRAL PART OF THESE CONTRACT DOCUMENTS AND ALL CONDITIONS MENTIONED IN EITHER SHALL BE EXECUTED AS THOUGH SPECIFICALLY MENTIONED IN BOTH.
2. CONTRACTORS/SUBCONTRACTORS SHALL FIELD VERIFY ALL LOCATIONS, DIMENSIONS, AND CONDITIONS OF WALLS, DOORS, PLUMBING, MECHANICAL ELECTRICAL ITEMS, ETC. (WHETHER SHOWN OR NOT SHOWN ON THE DRAWINGS) PRIOR TO START OF CONSTRUCTION. CONTRACTOR TO ADVISE THE ARCHITECT OF ANY ADVERSE CONDITIONS OR DISCREPANCIES.

GENERAL CONSTRUCTION NOTES:

1. ALL CONSTRUCTION AND PROCEDURES SHALL CONFORM TO ALL APPLICABLE CODES AS OUTLINED ON TITLE SHEET.
2. DO NOT SCALE DRAWINGS. IF DIMENSIONAL DISCREPANCIES OCCUR BETWEEN PLANS AND EXISTING CONDITIIONS, CONTACT ARCHITECT IMMEDIATELY TO RESOLVE CONFLICT PRIOR TO CONTINUATION OF WORK.
3. EXISTING WALLS WERE CONSTRUCTED WTIH OTHER PERMITS AND/OR CONTRACTS. FIELD VERIFY CONSTRUCTION AND WIDTH PRIOR TO FABRICATION OF DOOR FRAMES OR COMPONENTS WHICH REQUIRE THE WIDTH OF THE WALL TO BE SET
4. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND NOTIFY ARCHITECT WHEN THOSE CONDITIONS DIFFER FROM THE CONSTRUCTION DOCUMENTS.
5. ALL EXTERIOR DOORS AND WINDOWS SHALL BE FULLY WEATHER STRIPPED; MANUFACTURED UNITS SHALL MEET ANSI AND TITLE 24 STANDARDS FOR AIR INFILTRATION.
6. ALL JOINTS AND PENETRATIONS IN THE BUILDING ENVELOPE SHALL BE CAULKED AND SEALED.
7. COORDINATE WITH ARCHITECT TO PROVIDE BLOCKING IN WALLS WHERE ACCESSORY ITEMS ARE INSTALLED TYPICAL: GRAB BARS, TOILET PAPER DISPENSERS, ETC.
8. REFER TO WALL TYPES AND CROSS-HATCHED AREAS ON FLOOR PLANS FOR LOCATIONS OF ONE-HOUR FIRE RATED PARTITIONS IF APPLICABLE
9. ALL DIMENSIONS SHOWN ARE TO FINISHED FACE OF WALL
10. FURNITURE AND MODULAR SYSTEMS FURNITURE ARE SHOWN FOR REFERENCE ONLY AND ARE NOT PART OF PROJECT SCOPE.
11. ALL PENETRATIONS THROUGH FIRE RATED PARTITIONS SHALL BE PROTECTED WITH A U.L. LISTED FIRE STOP SYSTEM.
12. ALL PENETRATIONS @ WALLS THAT HAVE SOUND INSULATION SHALL BE SEALED WITH NON-HARDENING ACOUSTICAL SEALANT.

GREEN BUILDING CODE REQUIREMENTS:

1. DOCUMENTATION:
   A BUILDING "SYSTEMS MANUAL" AS LISTED IN CGC SECTION 5.410.2.5 SHALL BE DELIVERED TO THE BUILDING OWNER OR REPRESENTATIVE AND THE REPRESENTATIVE AND THE FACILITIES OPERATOR. THE "SYSTEMS MANUAL" SHALL CONTAIN THE REQUIRED FEATURES LISTED IN CGC SECTION 5.410.2.5.1.
2. POLLUTANT CONTROL:
   DURING CONSTRUCTION, ENDS OF DUCT OPENINGS ARE TO BE SEALED, AND MECHANICAL EQUIPMENT IS TO BE COVERED. CGC 5.504.3.
3. POLLUTANT CONTROL:
   VOC's MUST COMPLY WITH THE LIMITATIONS LISTED IN SECTION 5.504.4 AND TABLES 4.504.1, 5.504.4.2, 5.504.4.3, AND 5.504.4.5 FOR: ADHESIVES, SEALANTS, PAINTS AND COATINGS, CARPET AND COMPOSITION WOOD PRODUCTS. CGC 5.504.4.
4. POLLUTANT CONTROL:
   MECHANICALLY VENTILATED BUILDINGS SHALL PROVIDE REGULARLY OCCUPIED AREAS WITH AIR FILTRATION MEDIA FOR OUTSIDE AND RETURN AIR THAT PROVIDES AT LEAST A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 13. MERV 13 FILTERS SHALL BE INSTALLED PRIOR TO OCCUPANY. CGC SECTION 5.504.5.3.
5. POLLUTANT CONTROL:
   WHERE OUTDOOR AREAS ARE PROVIDED FOR SMOKING, SUCH AREAS ARE PROHIBITED WITHIN 25' OF BUILDING ENTRIES, WINDOWS AND OUTDOOR AIR INTAKES. SIGNAGE SHALL BE POSTED TO INFORM OCCUPANTS OF THE PROHIBITIONS. CGC SECTION 5.504.7.
6. ENVIRONMENTAL COMFORT:
   WALL AND FLOOR ASSEMBLIES SEPARATING TENANT SPACES 9AND TENANT SPACES FROM PUBLIC SPACES) SHALL HAVE AN STC OF AT LEAST 40. CGC SECTION 5.504.7.3.
7. ENVIRONMENTAL COMFORT:
   WALL AND ROOF ASSEMBLIES EXPOSED TO NOISE SOURCES SHALL HAVE AN STC RATING OF AT LEAST 50, WITH EXTERIOR WINDOWS HAVING A MINIMUM STC OF 40 IN THE FOLLOWING LOCATIONS, PER CGC SECTION 5.507.4.1:
   a) WITHIN THE 65 CNEL NOISE-CONTOUR OF A FREEWAY, RAILROAD, OR INDUSTRIAL SOURCE, AS DETERMINED BY THE JURISDICTION'S NOISE ELEMENT OF THE GENERAL PLAN.
   b) WITHIN THE 65 CNEL NOISE-CONTOUR OF AN AIRPORT.
8. OUTDOOR AIR QUALITY:
   INSTALLATIONS OF HVAC, REFRIGERATION AND FIRE SUPPRESSION SYSTEMS WILL NOT CONTAIN CFC's OR HALONS, PER CGC 5.508.1.
9. PRIOR TO FINAL INSPECTION THE LICENSED CONTRACTOR, ARCHITECT, OR ENGINEER IN RESPONSIBLE CHARGE OF THE OVERALL CONSTRUCTION MUST PROVIDE TO THE BUILDING DEPARTMENT OFFICIAL **WRITTEN VERIFICATION** THAT ALL APPLICABLE PROVISIONS FOR THE GREEN BUILDING STANDARDS CODE HAVE BEEN IMPLEMENTED AS PART OF THE CONSTRUCTION. CGC 102.3.

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REVISIONS

DATE	DESCRIPTION

Bid Issue Date:	TBD
Date:	10/23/24
Scale:	AS NOTED
Project No.	
Sheet Title:	GENERAL NOTES
Sheet No.:	T1.1

11B-213.3.3 Urinals. Where one or more urinals are provided, at least ten percent but no fewer than one shall comply with Section 11B-605.

11B-213.3.4 Lavatories. Where lavatories are provided, at least ten percent but no fewer than one shall comply with Section 11B-606 and shall not be located in a toilet compartment.

11B-213.3.5 Mirrors. Where mirrors are provided, at least one shall comply with Section 11B-603.3.

11B-213.3.6 Bathing Facilities. Not Applicable.

11B-213.3.7 Coat Hooks & Shelves. Where coat hooks or shelves are provided in toilet rooms without toilet compartments, at least one of each type shall comply with Section 11B-603.4. Where coat hooks or shelves are provided in toilet compartments, at least one of each type complying with Section 11B-604.8.3 shall be provided in toilet compartments required to comply with Section 11B-213.3.1.

11B-214 Washing Machines & Clothes Dryers

11B-214.1 General. Not Applicable.

11B-215 Fire Alarm Systems & Carbon Monoxide Alarm Systems

11B-215.1 General. Where fire alarm systems and carbon monoxide alarm systems provide audible alarm coverage, alarms shall comply with Section 11B-215.
Exception: In existing facilities, visible alarms for fire alarm systems shall not be required except where an existing fire alarm system is upgraded or replaced, or a new fire alarm system is installed.

11B-215.2 Public Use Areas. Alarms in public use areas shall comply with Chapter 9, Section 907.5.2.3.1.

11B-215.3 Employee Work Areas. Where employee work areas have audible alarm coverage, the wiring system shall be designed so that visible alarms complying with Chapter 9, Section 907.5.2.3.1, Exception can be integrated into the alarm system.

11B-215.4 Transient Lodging. Not Applicable.

11B-215.5 Residential Facilities. Not Applicable.

11B-216 Signs

11B-216.1 General. New or altered signs shall be provided in accordance with Section 11B-216 and shall comply with Section 11B-703. The addition of or replacement of signs shall not trigger any additional path of travel requirements.
Exception: Building directories, menus, seat and row designations in assembly areas, occupant names, building addresses, and company names and logos shall not be required to comply with Section 11B-216.

11B-216.2 Designations. Interior and exterior signs identifying permanent rooms and spaces shall comply with Sections 11B-703.1, 11B-703.2, 11B-703.3 and 11B-703.5. Where pictograms are provided as designations of permanent rooms and spaces, the pictograms shall comply with Section 11B-703.6 and shall have text descriptors complying with Sections 11B-703.2 and 11B-703.5.
Exception: Exterior signs that are not located at the door to the space they serve shall not be required to comply with Section 11B-703.2.

11B-216.4.2 Areas of Refuge & Exterior Areas for Assisted Rescue. Not Applicable.

11B-216.4.3 Directional Signs. Signs required by Chapter 10, Section 1009.10 to provide directions to accessible means of egress shall comply with Section 11B-703.5.

11B-216.4.4 Delayed Egress Locks. Not Applicable.

11B-216.5 Parking. Signs identifying parking spaces and signs within parking facilities shall comply with Section 11B-216.5.

11B-216.5.1 Parking Spaces. Parking spaces complying with Section 11B-502 shall be identified by signs complying with Sections 11B-502.6 and 11B-502.8.

11B-216.5.2 Parking Facilities. Signs within parking facilities shall comply with Section 11B-216.5.2.

11B-216.5.2.1 Signs Intended for Use by Pedestrians. Signs intended for use by pedestrians within parking facilities, including directional or informational signs indicating parking sections or levels, shall comply with the requirements of Section 11B-216.

11B-216.5.2.2 Additional Signs. Signs within parking facilities containing parking spaces complying with Section 11B-502 shall comply with Section 11B-502.8.

11B-216.6 Entrances. In existing buildings and facilities where not all entrances comply with Section 11B-404, entrances complying with Section 11B-404 shall be identified by the International Symbol of Accessibility complying with Section 11B-703.7.2.1. Directional signs complying with Section 11B-703.5 that indicate the location of the nearest entrance complying with Section 11B-404 shall be provided at entrances that do not comply with Section 11B-404. Directional signs complying with Section 11B-703.5, including the International Symbol of Accessibility complying with Section 11B-703.7.2.1, indicating the accessible route to the nearest accessible entrance shall be provided at junctions when the accessible route diverges from the regular circulation path.

11B-216.7 Elevators. Where existing elevators do not comply with Section 11B-407, elevators complying with Section 11B-407 shall be clearly identified with the International Symbol of Accessibility complying with Section 11B-703.7.2.1. Existing buildings that have been remodeled to provide specific elevators for public use that comply with these building standards shall have the location of and the directions to these elevators posted in the building lobby on a sign complying with Section 11B-703.5, including the International Symbol of Accessibility complying with Section 11B-703.7.2.1.

11B-216.8 Toilet Rooms. Where existing toilet rooms do not comply with Section 11B-603, directional signs indicating the location of the nearest toilet room complying with Section 11B-603 within the facility shall be provided. Signs shall comply with Section 11B-703.5 and shall include the International Symbol of Accessibility complying with Section 11B-703.7.2.1. Where existing toilet rooms do not comply with Section 11B-603, the toilet rooms complying with Section 11B-603 shall be identified by the International Symbol of Accessibility complying with Section 11B-703.7.2.1. Existing buildings that have been remodeled to provide specific toilet rooms for public use that comply with these building standards shall have the location of and the directions to these rooms posted in or near the building lobby or entrance on a sign complying with Section 11B-703.5, including the International Symbol of Accessibility complying with Section 11B-703.7.2.1.

11B-216.8.1 Geometric Symbols. Geometric symbols complying with Section 11B-703.7.2.6 shall be provided at entrances to toilet and bathing rooms.

11B-216.9 TTYs. Not Applicable..

11B-216.10 Assistive Listening Systems. Not Applicable.

11B-216.11 Check-out Aisles. Not Applicable.

11B-216.12 Amusement Rides. Not Applicable.

11B-217 Telephones

11B-217.1 General. Not Applicable

11B-218 Transportation Facilities

11B-218.1 General. Not Applicable.

11B-219 Assistive Listening Systems

11B-219.1 General. Not Applicable.

11B-220 Automatic Teller Machines, Fare Machines & Point-of-Sale Devices

11B-220.1 Automatic Teller Machines & Fare Machines. Not Applicable.

11B-220.2 Point-of-Sale Devices. Where point-of-sale devices are provided, all devices at each location shall comply with Sections 11B-707.3, 11B-707.7.2, and 11B-707.9. Where point-of-sale devices are provided at check stands and sales and service counters required to comply with Sections 11B-227.2 and 11B-227.3, they shall comply with Sections 11B-707.2, 11B-707.3, 11B-707.7.2, and 11B-707.9.
Exceptions:
Where a single point-of-sale device is installed for use with any type of motor fuel, it shall comply with Sections 11B-707.2, 11B-707.3, 11B-707.7.2, and 11B-707.9. Where more than one point-of-sale device is installed for use with a specific type of motor fuel, a minimum of two for that type shall comply with Sections 11B-707.2, 11B-707.3, 11B-707.7.2, and 11B-707.9. Types of motor fuel include, but are not limited to, gasoline, diesel, compressed natural gas, methanol, or ethanol.

Point-of-sale devices at electric vehicle charging stations required to comply with Section 11B-812 shall comply with Section 11B-812.10.3.

11B-221 Assembly Areas Not Applicable.

11B-222 Dressing, Fitting & Locker rooms

11B-222.1 General. Where dressing rooms, fitting rooms, or locker rooms are provided, at least 5 percent, but no fewer than one, of each type of use in each cluster provided shall comply with Section 11B-803.
Exception: In alterations, where it is technically infeasible to provide rooms in accordance with Section 11B-222.1, one room for each sex on each level shall comply with Section 11B-803. Where only unisex rooms are provided, unisex rooms shall be permitted.

11B-222.2 Coat Hooks & Shelves. Not Applicable.

11B-222.3 Mirrors. Not Applicable.

11B-223 Medical Care & Long-Term Care Facilities Not Applicable.

11B-224 Transient Lodging Guest Rooms, Housing at a Place of Education & Social Service Center Establishments Not Applicable.

11B-225 Storage

11B-225.1 General. Storage facilities shall comply with Section 11B-225.

11B-225.2 Storage. Where storage is provided in accessible spaces, at least one of each type shall comply with Section 11B-811.

11B-225.2.1 Lockers. Where lockers are provided, at least 5 percent, but no fewer than one of each type, shall comply with Section 11B-811.

11B-225.2.2 Self-Service Shelving. Self-service shelves shall be located on an accessible route complying with Section 11B-402. Self-service shelving shall not be required to comply with Section 11B-308.

11B-225.2.3 Library Book Stacks. Not Applicable.

11B-225.3 Self-Service Storage Facilities. Not Applicable.

11B-226 Dining Surfaces & Work Surfaces

11B-226.1 General. Where dining surfaces are provided for the consumption of food or drink, at least 5 percent of the seating spaces and standing spaces at the dining surfaces shall comply with Section 11B-902. In addition, where work surfaces are provided for use by other than employees, at least 5 percent shall comply with Section 11B-902.
Exceptions:
1. Sales counters and service counters shall not be required to comply with Section 11B-902. See Section 11B-227.

11B-226.2 Dispersion. Dining surfaces required to comply with Section 11B-902 shall be dispersed throughout the space or facility containing dining surfaces for each type of seating in a functional area. Work surfaces required to comply with Section 11B-902 shall be dispersed throughout the space or facility containing work surfaces.

11B-226.3 Dining Surfaces Exceeding 34 inches in Height. Where food or drink is served for consumption at a counter exceeding 34 inches in height, a portion of the main counter 60 inches minimum in length shall be provided in compliance with Section 11B-902.3.

11B-226.4 Baby Changing Tables. Baby changing tables shall comply with Sections 11B-309 and 11B-902. Baby changing tables when deployed shall not obstruct the required width of an accessible route except as allowed by Section 11B-307.2. Baby changing tables shall not be located in toilet compartments complying with Section 11B-604.8 within a multiple accommodation toilet facility.

11B-227 Sales & Service

11B-227.1 General. Where provided, check-out aisles, sales counters, service counters, food service lines, queues, and waiting lines shall comply with Sections 11B-227 and 11B-904.

11B-227.2 Check-Out Aisles. Not Applicable.

11B-227.3 Counters. Where provided, at least one of each type of sales counter and service counter shall comply with Section 11B-904.4. Where counters are dispersed throughout the building or facility, counters complying with Section 11B-904.4 also shall be dispersed.

11B-227.4 Food Service Lines. Food service lines shall comply with Section 11B-904.5. Where self-service shelves are provided, at least 50 percent, but no fewer than one, of each type provided shall comply with Section 11B-308.

11B-227.5 Queues & Waiting Lines. Queues and waiting lines servicing counters required to comply with Section 11B-904.3 or 11B-904.4 shall comply with Section 11B-403.

11B-228 Depositories, Vending Machines, Change Machines, Mail Boxes, Fuel Dispensers & Electric Vehicle Charging Stations

11B-228.1 General. Where provided, electric vehicle charging stations shall comply with Section 11B-228.3.

11B-228.2 Mail Boxes. Not Applicable.

11B-228.3 Electric Vehicle Charging Stations

11B-228.3.1 General. Where electric vehicle charging stations (EVCS) are provided, EVCS shall be provided in accordance with Section 11B-228.3.

11B-228.3.1.1 Existing Facilities. Where new EVCS are added to a facility with existing EVCS, the requirements of Section 11B-812 shall apply only to the new EVCS installed. Alterations to existing EVCS shall comply with Section 11B-228.3.

11B-228.3.1.2 Operable Parts. Where EV chargers are provided, operable parts on all EV chargers shall comply with Section 11B-309.4.

11B-228.3.2 Minimum Number. EVCS complying with Section 11B-812 shall be provided in accordance with Section 11B-228.3.2. Where EVCS are provided in more than one facility on a site, the number of EVCS complying with Section 11B-228.3.2 provided on the site shall be calculated according to the number required for each facility. Where an EV charger can simultaneously charge more than one vehicle, the number of EV chargers provided shall be considered equivalent to the number of electric vehicles that can be simultaneously charged.

11B-228.3.2.1 Public Use EVCS. Where EVCS are provided for public use, EVCS complying with Section 11B-812 shall be provided in accordance with Table 11B-228.3.2.1. Where new EVCS are installed in facilities with existing EVCS, the "Total Number of EVCS at a Facility" in Table 11B-228.3.2.1 shall include both existing and new EVCS.
Exception: All drive-up EVCS shall comply with Section 11B-812.

TABLE 11B-228.3.2.1 Electric Vehicle Charging Stations for Public Use

Total Number of EVCS at a Facility1	Minimum Number (by type) of EVCS Required to Comply with Section 11B-8121		
	Van Accessible	Standard Accessible	Ambulatory
1 to 4	1	0	0
5 to 25	1	1	0
26 to 50	1	1	1
51 to 75	1	2	2
76 to 100	1	3	3
101 and over	1, plus 1 for each 300, or fraction thereof, over 100	3, plus 1 for each 60, or fraction thereof, over 100	3, plus 1 for each 50, or fraction thereof, over 100

Note: Where an EV charger can simultaneously charge more than one vehicle, the number of EVCS provided shall be considered equivalent to the number of electric vehicles that can be simultaneously charged.

11B-229 Windows

11B-229.1 General. Where glazed openings are provided in accessible rooms or spaces for operation by occupants, at least one opening shall comply with Section 11B-309. Each glazed opening required by an administrative authority to be operable shall comply with Section 11B-309.

11B-230 Two-way Communication Systems

11B-230.1 General. Where a two-way communication system is provided to gain admittance to a building or facility or to restricted areas within a building or facility, the system shall comply with Section 11B-708.

11B-231 Judicial Facilities Not Applicable.

11B 232 Detention Facilities & Correctional Facilities Not Applicable.

11B-233 Residential Facilities Not Applicable.

11B-234 Amusement Rides Not Applicable.

11B-235 Recreational Boating Facilities Not Applicable.

11B-236 Exercise Machines & Equipment Not Applicable.

11B-237 Fishing Piers & Platforms Not Applicable.

11B-238 Golf Facilities Not Applicable.

11B-239 Miniature Golf Facilities Not Applicable

11B-240 Play Areas Not Applicable.

11B-241 Saunas & Steam Rooms Not Applicable.

11B-242 Swimming Pools, Wading Pools & Spas Not Applicable.

11B-243 Shooting Facilities with Firing Positions Not Applicable.

11B-244 Religious Facilities Not Applicable.

11B-245 Public Accommodations Located in Private Residences Not Applicable.

11B-246 Outdoor Developed Areas Not Applicable.

11B-247 Detectable Warnings & Detectable Directional Texture

11B-247.1 Detectable Warnings

11B-247.1.1 General. Detectable warnings shall be provided in accordance with Section 11B-247.1 and shall comply with Section 11B-705.1.

11B-247.1.2 Where required. Detectable warnings shall be provided where required by Section 11B-247.1.2.

11B-247.1.2.1 Platform Edges. Not Applicable.

11B-247.1.2.2 Curb Ramps. Curb ramps shall have detectable warnings complying with Sections 11B-705.1.1 and 11B-705.1.2.2.

11B-247.1.2.3 Islands or Cut-Through Medians. Islands or cut-through medians shall have detectable warnings complying with Sections 11B-705.1.1 and 11B-705.1.2.3.

11B-247.1.2.4 Bus stops. Not Applicable.

11B-247.1.2.5 Hazardous Vehicular Areas. If a walk crosses or adjoins a vehicular way, and the walking surfaces are not separated by curbs, railings or other elements between the pedestrian areas and vehicular areas, the boundary between the areas shall be defined by a continuous detectable warning complying with Sections 11B-705.1.1 and 11B-705.1.2.5.

11B-247.1.2.6 Reflecting Pools. Not Applicable.

11B-247.1.2.7 Track crossings. Not Applicable.

11B-247.2 Detectable Directional Texture. Not Applicable.

DIVISION 3: BUILDING BLOCKS

11B-301 General

11B-301.1 Scope. The provisions of Division 3 shall apply where required by Division 2 or where referenced by a requirement in this chapter.

11B-302 Floor or Ground Surfaces

11B-302.1 General. Floor and ground surfaces shall be stable, firm, and slip resistant and shall comply with Section 11B-302.

Figure 11B-302.2 Carpet Pile Height

11B-302.3 Openings. Openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2 inch diameter except as allowed in Sections 11B-407.4.3, 11B-409.4.3, 11B-410.4, 11B-810.5.3 and 11B-810.10. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.

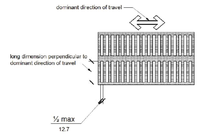

Figure 11B-302.3 Elongated Openings in Floor or Ground Surfaces

11B-303 Changes in Level

11B-303.1 General. Where changes in level are permitted in floor or ground surfaces, they shall comply with Section 11B-303.

11B-303.2 Vertical. Changes in level of 1/2 inch high maximum shall be permitted to be vertical and

Figure 11B-303.2 Vertical Change in Level

11B-303.3 Beveled. Changes in level between ¼ inch (6.4 mm) high minimum and ½ inch (12.7 mm) high maximum shall be beveled with a slope not steeper than 1:2.

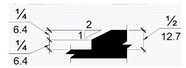

Figure 11B-303.2 Vertical Change in Level

11B-303.3 Beveled. Changes in level between ¼ inch (6.4 mm) high minimum and ½ inch (12.7 mm) high maximum shall be beveled with a slope not steeper than 1:2.

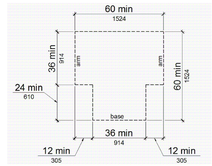

Figure 11B-304.3.2 T-Shaped Turning Space

11B-304.4 Door Swing. Doors shall be permitted to swing into turning spaces.

11B-305 Clear Floor or Ground Space

11B-305.1 General. Clear floor or ground space shall comply with Section 11B-305.

11B-305.2 Floor or Ground Surfaces. Floor or ground surfaces of a clear floor or ground space shall comply with Section 11B-302. Changes in level are not permitted.
Exception: Slopes not steeper than 1:48 shall be permitted.

11B-305.3 Size. The clear floor or ground space shall be 30 inches minimum by 48 inches minimum.

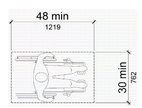

Figure 11B-305.3 Clear Floor or Ground Space

11B-305.4 Knee & Toe Clearance. Unless otherwise specified, clear floor or ground space shall be permitted to include knee and toe clearance complying with Section 11B-306.

11B-305.5 Position. Unless otherwise specified, clear floor or ground space shall be positioned for either forward or parallel approach to an element.

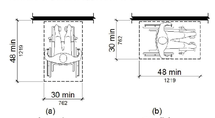

Figure 11B-305.5 Position of Clear Floor or Ground Space

11B-305.6 Approach. One full unobstructed side of the clear floor or ground space shall adjoin an accessible route or adjoin another clear floor or ground space. Clear floor or ground space may overlap an accessible route, unless specifically prohibited elsewhere in this chapter.

11B-305.7 Maneuvering Clearance. Where a clear floor or ground space is located in an alcove or otherwise confined on all or part of three sides, additional maneuvering clearance shall be provided in accordance with Sections 11B-305.7.1 and 11B-305.7.2.

11B-305.7.1 Forward Approach. Alcoves shall be 36 inches wide minimum where the depth exceeds 24 inches.

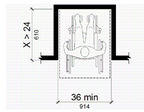

Figure 11B-305.7.1 Maneuvering Clearance in an Alcove, Forward Approach

11B-305.7.2 Parallel Approach. Alcoves shall be 60 inches wide minimum where the depth exceeds 15 inches.

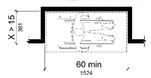

Figure 11B-305.7.2 Maneuvering Clearance in an Alcove, Parallel Approach

11B-306 Knee & Toe Clearance

11B-306.1 General. Where space beneath an element is included as part of clear floor or ground space or turning space, the space shall comply with Section 11B-306. Additional space shall not be prohibited beneath an element but shall not be considered as part of the clear floor or ground space or turning space.

11B-306.2 Toe Clearance

11B-306.2.1 General. Space under an element between the finish floor or ground and 9 inches above the finish floor or ground shall be considered toe clearance and shall comply with Section 11B-306.2.

11B-306.2.2 Maximum Depth. Toe clearance shall extend 25 inches maximum under an element.
Exception: Toe clearance shall extend 19 inches maximum under lavatories required to be accessible by Section 11B-213.3.4.

11B-306.2.3 Minimum Required Depth. Where toe clearance is required at an element as part of a clear floor space, the toe clearance shall extend 17 inches minimum under the element.
Exceptions:
1. The toe clearance shall extend 19 inches minimum under sinks required to be accessible by Section 11B-212.3.
2. The toe clearance shall extend 19 inches minimum under built-in dining and work surfaces required to be accessible by Section 11B-226.1.

11B-306.2.4 Additional Clearance. Space extending greater than 6 inches beyond the available knee clearance at 9 inches above the finish floor or ground shall not be considered toe clearance.

11B-306.2.5 Width. Toe clearance shall be 30 inches wide minimum.

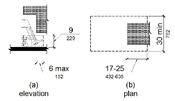

Figure 11B-306.2 Toe Clearance

11B-306.3 Knee Clearance

11B-306.3.1 General. Space under an element between 9 inches and 27 inches above the finish floor or ground shall be considered knee clearance and shall comply with Section 11B-306.3.
Exception: At lavatories required to be accessible by Section 11B-213.3.4, space between 9 inches and 29 inches above the finish floor or ground, shall be considered knee clearance.

11B-306.3.2 Maximum Depth. Knee clearance shall extend 25 inches maximum under an element at 9 inches above the finish floor or ground.

11B-306.3.3 Minimum Required Depth. Where knee clearance is required under an element as part of a clear floor space, the knee clearance shall be 11 inches deep minimum at 9 inches above the finish floor or ground, and 8 inches deep minimum at 27 inches above the finish floor or ground.
Exceptions:
1. At lavatories required to be accessible by Section 11B-213.3.4, the knee clearance shall be 27 inches high minimum above the finish floor or ground at a depth of 8 inches minimum increasing to 29 inches high minimum above the finish floor or ground at the front edge of a counter with a built-in lavatory or at the front edge of a wall-mounted lavatory fixture.
2. At dining and work surfaces required to be accessible by Section 11B-226.1, knee clearance shall extend 19 inches deep minimum at 27 inches above the finish floor or ground.

11B-306.3.4 Clearance Reduction. Between 9 inches and 27 inches above the finish floor or ground, the knee clearance shall be permitted to reduce at a rate of 1 inch in depth for each 6 inches in height.
Exception: The knee clearance shall not be reduced at built-in dining and work surfaces required to be accessible by Section 11B-226.1.

11B-306.3.5 Width. Knee clearance shall be 30 inches wide minimum.

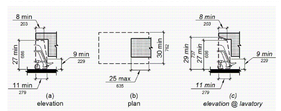

Figure 11B-306.3 Knee Clearance

11B-307 Protruding Objects

11B-307.1 General. Protruding objects shall comply with Section 11B-307.

11B-307.2 Protrusion Limits. Objects with leading edges more than 27 inches and not more than 80 inches above the finish floor or ground shall protrude 4 inches maximum horizontally into the circulation path.
Exception: Handrails shall be permitted to protrude 4½ inches (114 mm) maximum.

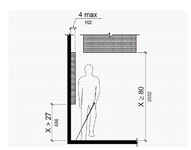

Figure 11B-307.2 Limits of Protruding Objects

11B-307.3 Post-Mounted Objects. Free-standing objects mounted on posts or pylons shall overhang circulation paths 12 inches maximum when located 27 inches minimum and 80 inches maximum above the finish floor or ground. Where a sign or other obstruction is mounted between posts or pylons and the clear distance between the posts or pylons is greater than 12 inches, the lowest edge of such sign or obstruction shall be 27 inches maximum or 80 inches minimum above finish floor or ground.
Exception: The sloping portions of handrails serving stairs and ramps shall not be required to comply with Section 11B-307.3.

11B-307.3.1 Edges & Corners. Where signs or other objects are mounted on posts or pylons, and their bottom edges are less than 80 inches above the floor or ground surface, the edges of such signs and objects shall be rounded or eased and the corners shall have a minimum radius of 1/8 inch.

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REVISIONS

DESCRIPTION	DATE

Bid Issue Date:	TBD
Date:	10/23/24
Scale:	AS NOTED
Project No.	
Sheet Title:	ACCESSIBILITY NOTES
Sheet No.:	T1.2

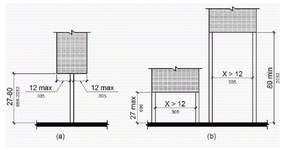


Figure 11B-307.3 Post-Mounted Protruding Objects

11B-307.4 Vertical Clearance. Vertical clearance shall be 80 inches high minimum. Guardrails or other barriers shall be provided where the vertical clearance is less than 80 inches high. The leading edge of such guardrail or barrier shall be located 27 inches maximum above the finish floor or ground.

Exception: Door closers and door stops shall be permitted to be 78 inches minimum above the finish floor or ground.

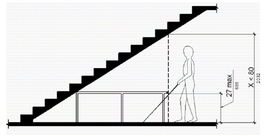


Figure 11B-307.4 Vertical Clearance

11B-307.4.1 Guy Braces. Where a guy support is used within either the width of a circulation path or 24 inches maximum outside of a circulation path, a vertical guy brace, sidewalk guy or similar device shall be used to prevent a hazard or an overhead obstruction.

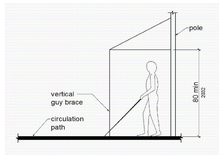


Figure 11B-307.4.1 Guy Braces

11B-307.5 Required Clear Width. Protruding objects shall not reduce the clear width required for accessible routes.

11B-308 Reach Ranges

11B-308.1 General. Reach ranges shall comply with Section 11B-308.

11B-308.1.1 Electrical Switches. Controls and switches intended to be used by the occupant of a room or area to control lighting and receptacle outlets, appliances or cooling, heating and ventilating equipment, shall comply with Section 11B-308 except the low reach shall be measured to the bottom of the outlet box and the high reach shall be measured to the top of the outlet box.

11B-308.1.2 Electrical Receptacle Outlets. Electrical receptacle outlets on branch circuits of 30 amperes or less and communication system receptacles shall comply with Section 11B-308 except the low reach shall be measured to the bottom of the outlet box and the high reach shall be measured to the top of the outlet box.

11B-308.2 Forward Reach

11B-308.2.1 Unobstructed. Where a forward reach is unobstructed, the high forward reach shall be 48 inches maximum and the low forward reach shall be 15 inches minimum above the finish floor or ground.

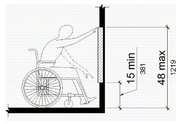


Figure 11B-308.2.1 Unobstructed Forward Reach

11B-308.2.2 Obstructed High Reach. Where a high forward reach is over an obstruction, the clear floor space shall extend beneath the element for a distance not less than the required reach depth over the obstruction. The high forward reach shall be 48 inches maximum where the reach depth is 20 inches maximum. Where the reach depth exceeds 20 inches, the high forward reach shall be 44 inches maximum and the reach depth shall be 25 inches maximum.

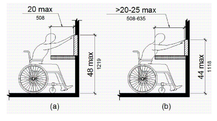


Figure 11B-308.2.2 Obstructed High Forward Reach

11B-308.3 Side Reach

11B-308.3.1 Unobstructed. Where a clear floor or ground space allows a parallel approach to an element and the side reach is unobstructed, the high side reach shall be 48 inches maximum and the low side reach shall be 15 inches minimum above the finish floor or ground.

Exceptions:
1. An obstruction shall be permitted between the clear floor or ground space and the element where the depth of the obstruction is 10 inches maximum.
2. Operable parts of fuel dispensers shall be permitted to be 54 inches maximum measured from the surface of the vehicular way where fuel dispensers are installed on existing curbs.

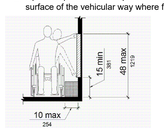


Figure 11B-308.3.1 Unobstructed Side Reach

11B-308.3.2 Obstructed High Reach. Where a clear floor or ground space allows a parallel approach to an element and the high side reach is over an obstruction, the height of the obstruction shall be 34 inches maximum and the depth of the obstruction shall be 24 inches maximum. The high side reach shall be 48 inches maximum for a reach depth of 10 inches maximum. Where the reach depth exceeds 10 inches, the high side reach shall be 46 inches maximum for a reach depth of 24 inches maximum.

Exceptions:
1. The top of washing machines and clothes dryers shall be permitted to be 36 inches maximum above the finish floor.
2. Operable parts of fuel dispensers shall be permitted to be 54 inches maximum measured from the surface of the vehicular way where fuel dispensers are installed on existing curbs.

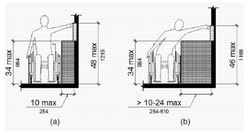


Figure 11B-308.3.2 Obstructed High Side Reach

11B-308.4 Suggested Reach Ranges for Children. Not Applicable.

11B-309 Operable Parts

11B-309.1 General. Operable parts shall comply with Section 11B-309.

11B-309.2 Clear Floor Space. A clear floor or ground space complying with Section 11B-305 shall be provided.

11B-309.3 Height. Operable parts shall be placed within one or more of the reach ranges specified in Section 11B-308.

11B-309.4 Operation. Operable parts shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate operable parts shall be 5 pounds maximum.

DIVISION 4: ACCESSIBLE ROUTES

11B-401 General

11B-401.1 Scope. The provisions of Division 4 shall apply where required by Division 2 or where referenced by a requirement in this chapter.

11B-402 Accessible Routes

11B-402.1 General. Accessible routes shall comply with Section 11B-402.

11B-402.2 Components. Accessible routes shall consist of one or more of the following components: walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps excluding the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Division 4.

11B-403 Walking Surfaces

11B-403.1 General. Walking surfaces that are a part of an accessible route shall comply with Section 11B-403.

11B-403.2 Floor or Ground Surface. Floor or ground surfaces shall comply with Section 11B-302.

11B-403.3 Slope. The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48.

Exception: The running slope of sidewalks shall not exceed the general grade established for the adjacent street or highway.

11B-403.4 Changes in Level. Changes in level shall comply with Section 11B-303.

11B-403.5 Clearances. Walking surfaces shall provide clearances complying with Section 11B-403.5.

Exception: Within employee work areas, clearances on common use circulation paths shall be permitted to be decreased by work area equipment provided that the decrease is essential to the function of the work being performed.

11B-403.5.1 Clear Width. Except as provided in Sections 11B-403.5.2 and 11B-403.5.3, the clear width of walking surfaces shall be 36 inches minimum.

Exceptions:
1. The clear width shall be permitted to be reduced to 32 inches minimum for a length of 24 inches maximum provided that reduced width segments are separated by segments that are 48 inches long minimum and 36 inches wide minimum.
2. The clear width for walking surfaces in corridors serving an occupant load of 10 or more shall be 44 inches minimum.
3. The clear width for sidewalks and walks shall be 48 inches minimum. When, because of right-of-way restrictions, natural barriers or other existing conditions, the enforcing agency determines that compliance with the 48-inch clear sidewalk width would create an unreasonable hardship, the clear width may be reduced to 36 inches.
4. The clear width for aisles shall be 36 inches minimum if serving elements on only one side, and 44 inches minimum if serving elements on both sides.
5. The clear width for accessible routes to accessible toilet compartments shall be 44 inches except for door-opening widths and door swings.

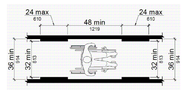


Figure 11B-403.5.1 Clear Width of an Accessible Route

11B-403.5.2 Clear Width at Turn. Where the accessible route makes a 180 degree turn around an element which is less than 48 inches wide, clear width shall be 42 inches minimum approaching the turn, 48 inches minimum at the turn and 42 inches minimum leaving the turn.

Exception: Where the clear width at the turn is 60 inches minimum compliance with Section 11B-403.5.2 shall not be required.

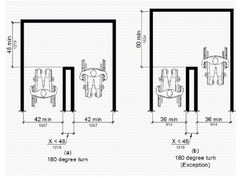


Figure 11B-403.5.2 Clear Width at Turn

11B-403.5.3 Passing Spaces. An accessible route with a clear width less than 60 inches shall provide passing spaces at intervals of 200 feet maximum. Passing spaces shall be either: a space 60 inches minimum by 60 inches minimum; or, an intersection of two walking surfaces providing a T-shaped space complying with Section 11B-304.3.2 where the base and arms of the T-shaped space extend 48 inches minimum beyond the intersection.

11B-403.6 Handrails. Where handrails are provided along walking surfaces with running slopes not steeper than 1:20 they shall comply with Section 11B-505.

11B-403.7 Continuous Gradient. All walks with continuous gradients shall have resting areas, 60 inches in length, at intervals of 400 feet maximum. The resting area shall be at least as wide as the walk. The slope of the resting area in all directions shall be 1:48 maximum.

11B-404 Doors, Doorways & Gates

11B-404.1 General. Doors, doorways, and gates that are part of an accessible route shall comply with Section 11B-404.

Exceptions:

1. Doors, doorways, and gates designed to be operated only by security personnel shall not be required to comply with Sections 11B-404.2.7, 11B-404.2.8, 11B-404.2.9, 11B-404.3.2 and 11B-404.3.4 through 11B-404.3.7. A sign visible from the approach side complying with Section 11B-703.5 shall be posted stating “Entry restricted and controlled by security personnel”.
2. At detention and correctional facilities, doors, doorways, and gates designed to be operated only by security personnel shall not be required to comply with Sections 11B-404.2.7, 11B-404.2.8, 11B-404.2.9, 11B-404.3.2 and 11B-404.3.4 through 11B-404.3.7.

11B-404.2 Manual Doors, Doorways & Manual Gates. Manual doors and doorways and manual gates intended for user passage shall comply with Section 11B-404.2.

11B-404.2.1 Revolving Doors, Gates & Turnstiles. Revolving doors, revolving gates, and turnstiles shall not be part of an accessible route.

11B-404.2.2 Double-Leaf Doors & Gates. At least one of the active leaves of doorways with two leaves shall comply with Sections 11B-404.2.3 and 11B-404.2.4.

11B-404.2.3 Clear Width. Door openings shall provide a clear width of 32 inches minimum. Clear openings of doorways with swinging doors shall be measured between the face of the door and the stop, with the door open 90 degrees. Openings more than 24 inches deep shall provide a clear opening of 36 inches minimum. There shall be no projections into the required clear opening width lower than 34 inches above the finish floor or ground. Projections into the clear opening width between 34 inches and 80 inches above the finish floor or ground shall not exceed 4 inches.

Exceptions:
1. In alterations, a projection of 5/8 inch maximum into the required clear width shall be permitted for the latch side stop.
2. Door closers and door stops shall be permitted to be 78 inches minimum above the finish floor or ground.

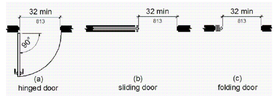


Figure 11B-404.2.3 Clear Width of Doorways

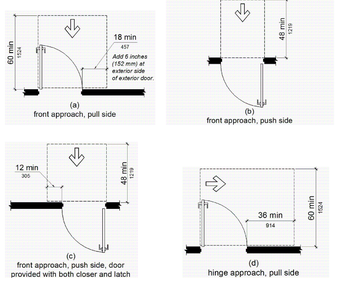
11B-404.2.4 Maneuvering Clearances. Minimum maneuvering clearances at doors and gates shall comply with Section 11B-404.2.4. Maneuvering clearances shall extend the full width of the doorway and the required latch side or hinge side clearance.

11B-404.2.4.1 Swinging Doors & Gates. Swinging doors and gates shall have maneuvering clearances complying with Table 11B-404.2.4.1.

Table 11B-404.2.4.1 Maneuvering Clearances at Manual Swinging Doors & Gates

Type of Use		Minimum Maneuvering Clearance	
Approach Direction	Door or Gate Side	Perpendicular to Doorway	Parallel to Doorway (beyond latch side unless noted)
From front	Pull	60 inches	18 inches Note 5
From front	Push	48 inches	0 inches Note 1
From hinge side	Pull	60 inches	36 inches
From hinge side	Push	44 inches Note 2	22 inches Note 3
From latch side	Pull	60 inches	24 inches
From latch side	Push	44 inches Note 4	

Notes:
1. Add 12 inches if closer and latch are provided.
2. Add 4 inches if closer and latch are provided.
3. Beyond hinge side.
4. Add 4 inches if closer is provided.
5. Add 6 inches at exterior side of exterior doors.



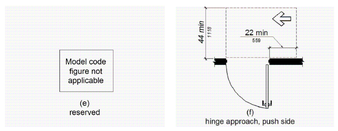


Figure 11B-404.2.4.1 Maneuvering Clearances at Manual Swinging Doors & Gates

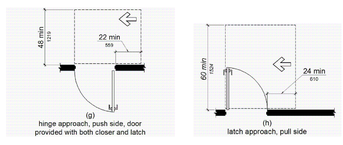


Figure 11B-404.2.4.1 Maneuvering Clearances at Manual Swinging Doors and Gates

11B-404.2.4.2 Doorways Without Doors or Gates, Sliding Doors & Folding Doors. Doorways less than 36 inches wide without doors or gates, sliding doors, or folding doors shall have maneuvering clearances complying with Table 11B-404.2.4.2.

Table 11B-404.2.4.2 Maneuvering Clearances at Doorways Without Doors or Gates, Manual Sliding Doors & Manual Folding Doors

	Minimum Maneuvering Clearance	
Approach Direction	Perpendicular to Doorway	Parallel to Doorway (beyond stop/latch side unless noted)
From front	48 inches	0 inches
From side Note 1	42 inches	0 inches
From pocket hinge side	42 inches	22 inches Note 2
From stop/latch side	42 inches	24 inches

Notes:
1. Doorway with no door only.
2. Beyond pocket hinge side.

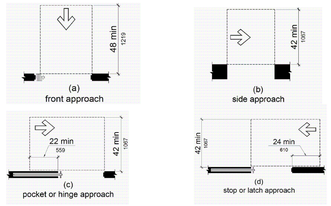
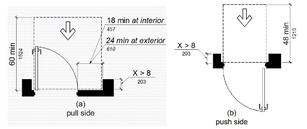


Figure 11B-404.2.4.2 Maneuvering Clearances at Doorways Without Doors, Sliding Doors, Gates & Folding Doors

11B-404.2.4.3 Recessed Doors & Gates. Maneuvering clearances for forward approach shall be provided when any obstruction within 18 inches of the latch side at an interior doorway, or within 24 inches of the latch side of an exterior doorway, projects more than 8 inches beyond the face of the door, measured perpendicular to the face of the door or gate.



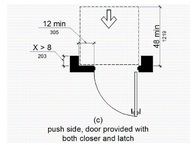


Figure 11B-404.2.4.3 Maneuvering Clearances at Recessed Doors & Gates

11B-404.2.4.4 Floor or Ground Surface. Floor or ground surface within required maneuvering clearances shall comply with Section 11B-302. Changes in level are not permitted.

Exceptions:
1. Slopes not steeper than 1:48 shall be permitted.
2. Changes in level at thresholds complying with Section 11B-404.2.5 shall be permitted.

11B-404.2.5 Thresholds. Thresholds, if provided at doorways, shall be 1/2 inch high maximum. Raised thresholds and changes in level at doorways shall comply with Sections 11B-302 and 11B-303.

11B-404.2.6 Doors in Series & Gates in Series. The distance between two hinged or pivoted doors in series and gates in series shall be 48 inches minimum plus the width of doors or gates swinging into the space.

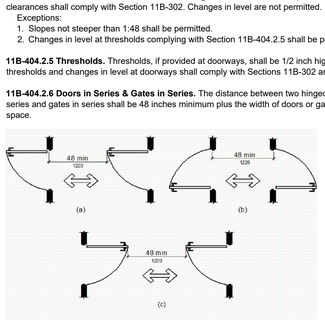


Figure 11B-404.2.6 Doors in Series and Gates in Series

11B-404.2.7 Door & Gate Hardware. Handles, pulls, latches, locks, and other operable parts on doors and gates shall comply with Section 11B-309.4. Operable parts of such hardware shall be 34 inches minimum and 44 inches maximum above the finish floor or ground. Where sliding doors are in the fully open position, operating hardware shall be exposed and usable from both sides.

Exceptions:
1. Existing locks shall be permitted in any location at existing glazed doors without stiles, existing overhead rolling doors or grilles, and similar existing doors or grilles that are designed with locks that are activated only at the top or bottom rail.
2. Access gates in barrier walls and fences protecting pools, spas, and hot tubs shall be permitted to have operable parts of the release of latch on self-latching devices at 54 inches maximum above the finish floor or ground provided the self-latching devices are not also self-locking devices and operated by means of a key, electronic opener, or integral combination lock.

11B-404.2.8 Closing Speed. Door and gate closing speed shall comply with Section 11B-404.2.8.

11B-404.2.8.1 Door Closers & Gate Closers. Door closers and gate closers shall be adjusted so that from an open position of 90 degrees, the time required to move the door to a position of 12 degrees from the latch is 5 seconds minimum.

11B-404.2.8.2 Spring Hinges. Door and gate spring hinges shall be adjusted so that from the open position of 70 degrees, the door or gate shall move to the closed position in 1.5 seconds minimum.

11B-404.2.9 Door & Gate Opening Force. The force for pushing or pulling open a door or gate shall be as follows:
1. Interior hinged doors and gates: 5 pounds maximum.
2. Sliding or folding doors: 5 pounds maximum.
3. Required fire doors: the minimum opening force allowable by the appropriate administrative authority, not to exceed 15 pounds.
4. Exterior hinged doors: 5 pounds maximum.

These forces do not apply to the force required to retract latch bolts or disengage other devices that hold the door or gate in a closed position.

Exception: When, at a single location, one of every eight exterior door leafs, or fraction of eight, is a powered door, other exterior doors at the same location, serving the same interior space, may have a maximum opening force of 8.5 pounds. The powered leaf(s) shall be located closest to the accessible route.

Powered doors shall comply with Section 11B-404.3. Powered doors shall be fully automatic doors complying with Builders Hardware Manufacturers' Association (BHMA) A156.10 or low energy operated doors complying with BHMA A156.19.

Powered doors serving a building or facility with an occupancy of 150 or more shall be provided with a back-up battery or back-up generator. The back-up power source shall be able to cycle the door a minimum of 100 cycles.

Powered doors shall be controlled on both the interior and exterior sides of the doors by sensing devices, push plates, vertical actuation bars or other similar operating devices complying with Sections 11B-304, 11B-305 and 11B-308.

At each location where push plates are provided there shall be two push plates; the centerline of one push plate shall be 7 inches minimum and 8 inches maximum above the floor or ground surface and the centerline of the second push plate shall be 30 inches (762 mm) minimum and 44 inches maximum above the floor or ground surface. Each push plate shall be a minimum of 4 inches diameter or a minimum of 4 inches by 4 inches square and shall display the International Symbol of Accessibility complying with Section 11B-703.7.

At each location where vertical actuation bars are provided the operable portion shall be located so the bottom is 5 inches maximum above the floor or ground surface and the top is 35 inches minimum above the floor or ground surface. The operable portion of each vertical actuation bar shall be a minimum of 2 inches wide and shall display the International Symbol of Accessibility complying with Section 11B-703.7.

Where push plates, vertical actuation bars or other similar operating devices are provided, they shall be placed in a conspicuous location. A level and clear floor or ground space for forward or parallel approach complying with Section 11B-305 shall be provided, centered on the operating device. Doors shall not swing into the required clear floor or ground space.

Signs identifying the accessible entrance required by Section 11B-216.6 shall be placed on, or immediately adjacent to, each powered door. Signs shall be provided in compliance with BHMA A156.10 or BHMA 156.19, as applicable.

In addition to the requirements of Item d, where a powered door is provided in buildings or facilities containing assembly occupancies of 300 or more, a sign displaying the International Symbol of Accessibility measuring 6 inches by 6 inches, complying with Section 11B-703.7, shall be provided above the door on both the interior and exterior sides of each powered door.

11B-404.2.10 Door & Gate Surfaces. Swinging door and gate surfaces within 10 inches of the finish floor or ground measured vertically shall have a smooth surface on the push side extending the full width of the door or gate. Parts creating horizontal or vertical joints in these surfaces shall be within 1/16 inch of the same plane as the other and be free of sharp or abrasive edges. Cavities created by added kick plates shall be capped.

Exceptions:
1. Sliding doors shall not be required to comply with Section 11B-404.2.10.
2. Tempered glass doors without stiles and having a bottom rail or shoe with the top leading edge tapered at 60 degrees minimum from the horizontal shall not be required to meet the 10 inch bottom smooth surface height requirement.
3. Doors and gates that do not extend to within 10 inches of the finish floor or ground shall not be required to comply with Section 11B-404.2.10.

11B-405.5 Clear Width. The clear width of a ramp run shall be 48 inches (1219 mm) minimum.

Exceptions:
1. Within employee work areas, the required clear width of ramps that are a part of common use circulation paths shall be permitted to be decreased by work area equipment provided that the decrease is essential to the function of the work being performed.
2. Handrails may project into the required clear width of the ramp at each side 31/2 inches (89 mm) maximum at the handrail height.
3. The clear width of ramps in residential uses serving an occupant load of fifty or less shall be 36 inches (914 mm) minimum between handrails.

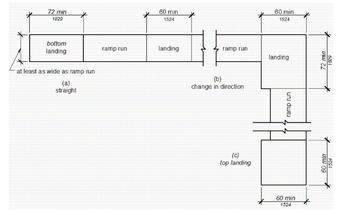


Figure 11B-405.7 Ramp Landings

11B-405.7.1 Slope. Landings shall comply with Section 11B-302. Changes in level are not permitted.
Exception: Slopes not steeper than 1:48 shall be permitted.

11B-405.7.2 Width. The landing clear width shall be at least as wide as the widest ramp run leading to the landing.

11B-405.7.2.1 Top landings shall be 60 inches wide minimum.

11B-405.7.3 Length. The landing clear length shall be 60 inches long minimum.

11B-405.7.3.1 Bottom landings shall extend 72 inches minimum in the direction of ramp run.

11B-405.7.4 Change in Direction. Ramps that change direction between runs at landings shall have a clear landing 60 inches minimum by 72 inches minimum in the direction of downward travel from the upper ramp run.

11B-405.7.5 Doorways. Where doorways are located adjacent to a ramp landing, maneuvering clearances required by Sections 11B-404.2.4 and 11B-404.3.2 shall be permitted to overlap the required landing area. Doors, when fully open, shall not reduce the required ramp landing width by more than 3 inches. Doors, in any position, shall not reduce the minimum dimension of the ramp landing to less than 42 inches.

11B-405.8 Handrails. Ramp runs shall have handrails complying with Section 11B-505.

Exceptions:
1. Not Applicable.
2. Not Applicable.
3. Curb ramps do not require handrails.
4. At door landings, handrails are not required on ramp runs less than 6 inches in rise or 72 inches in length.

11B-405.9 Edge Protection. Edge protection complying with Section 11B-405.9.2 shall be provided on each side of ramp runs and at each side of ramp landings.

Exceptions:
1. Edge protection shall not be required on ramps that are not required to have handrails and have sides complying with Section 11B-406.2.2.
2. Edge protection shall not be required on the sides of ramp landings serving an adjoining ramp run or stairway.
3. Edge protection shall not be required on the sides of ramp landings having a vertical drop-off of 1/2 inch maximum within 10 inches horizontally of the minimum landing area specified in Section 11B-405.7.

11B-405.9.1 Not Applicable..

11B-405.9.2 Curb or Barrier. A curb, 2 inches high minimum, or barrier shall be provided that prevents the passage of a 4 inch diameter sphere, where any portion of the sphere is within 4 inches of the finish floor or ground surface. To prevent wheel entrapment, the curb or barrier shall provide a continuous and uninterrupted barrier along the length of the ramp.

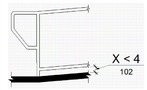


Figure 11B-405.9.2 Curb or Barrier Edge Protection

11B-405.10 Wet Conditions. Landings subject to wet conditions shall be designed to prevent the accumulation of water.

11B-406 Curb Ramps, Blended Transitions & Islands

11B-406.1 General. Curb ramps, blended transitions and islands on accessible routes shall comply with Section 11B-406. Curb ramps may be perpendicular, parallel, or a combination of perpendicular and parallel.

11B-406.1.1 Perpendicular Curb Ramps. Perpendicular curb ramps shall comply with Section 11B-406.2.

11B-406.1.2 Parallel Curb Ramps. Parallel curb ramps shall comply with Section 11B-406.3.

11B-406.1.3 Blended Transitions. Blended transitions shall comply with Section 11B-406.4.

11B-406.1.4 Islands. Islands shall comply with Section 11B-406.6.

11B-406.2 Perpendicular Curb Ramps. Perpendicular curb ramps shall comply with Sections 11B-406.2 and 11B-406.5.

11B-406.2.1 Slope. Ramp runs shall have a running slope not steeper than 1:12.

11B-406.2.2 Sides of Curb Ramps. Where provided, curb ramp flares shall not be steeper than 1:10.

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REVISIONS

DATE	DESCRIPTION

Bid Issue Date: TBD
Date: 10/23/24
Scale: AS NOTED
Project No.
Sheet Title:
ACCESSIBILITY NOTES
Sheet No.:
T1.3

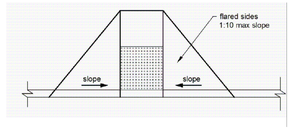


Figure 11B-406.2.2 Sides of Curb Ramps

11B-406.3 Parallel Curb Ramps. Parallel curb ramps shall comply with Sections 11B-406.3 and 11B-406.5.

11B-406.3.1 Slope. The running slope of the curb ramp segments shall be in-line with the direction of sidewalk travel. Ramp runs shall have a running slope not steeper than 1:12.

11B-406.3.2 Turning space. A turning space 48 inches minimum by 48 inches minimum shall be provided at the bottom of the curb ramp. The slope of the turning space in all directions shall be 1:48 maximum.

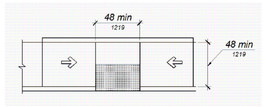


Figure 11B-406.3.2 Parallel Curb Ramps

11B-406.4 Blended Transitions. Blended transitions shall comply with Sections 11B-406.4 and 11B-406.5.

11B-406.4.1 Slope. Blended transitions shall have a running slope not steeper than 1:20.

11B-406.5 Common Requirements. Curb ramps and blended transitions shall comply with Section 11B-406.5.

11B-406.5.1 Location. Curb ramps and the flared sides of curb ramps shall be located so that they do not project into vehicular traffic lanes, parking spaces, or parking access aisles. Curb ramps at marked crossings shall be wholly contained within the markings, excluding any flared sides.
Exception: Diagonal curb ramps shall comply with Section 11B-406.5.9.

11B-406.5.2 Width. The clear width of curb ramp runs (excluding any flared sides), blended transitions, and turning spaces shall be 48 inches minimum.

11B-406.5.3 Landings. Landings shall be provided at the tops of curb ramps and blended transitions. The landing clear length shall be 48 inches minimum. The landing clear width shall be at least as wide as the curb ramp, excluding any flared sides, or the blended transition leading to the landing. The slope of the landing in all directions shall be 1:48 maximum.
Exception: Parallel curb ramps shall not be required to comply with Section 11B-406.5.3.

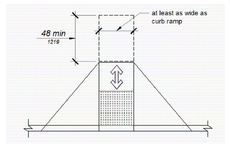


Figure 11B-406.5.3 Landings at the Top of Curb Ramps

11B-406.5.4 Floor or Ground Surfaces. Floor or ground surfaces of curb ramps and blended transitions shall comply with Section 11B-405.4.

11B-406.5.5 Wet Conditions. Curb ramps and blended transitions shall comply with Section 11B-405.10.

11B-406.5.6 Grade Breaks. Grade breaks at the top and bottom of curb ramp runs shall be perpendicular to the direction of the ramp run. Grade breaks shall not be permitted on the surface of ramp runs and turning spaces. Surface slopes that meet at grade breaks shall be flush.

11B-406.5.7 Cross Slope. The cross slope of curb ramps and blended transitions shall be 1:48 maximum.

11B-406.5.8 Counter Slope. Counter slopes of adjoining gutters and road surfaces immediately adjacent to and within 24 inches of the curb ramp shall not be steeper than 1:20. The adjacent surfaces at transitions at curb ramps to walks, gutters, and streets shall be at the same level.

Figure 11B-406.5.8 Counter Slope of Surfaces Adjacent to Curb Ramps

11B-406.5.9 Clear Space at Diagonal Curb Ramps. The bottom of diagonal curb ramps shall have a clear space 48 inches minimum outside active traffic lanes of the roadway. Diagonal curb ramps provided at marked crossings shall provide the 48 inches minimum clear space within the markings.

11B-406.5.10 Diagonal Curb Ramps. Diagonal or corner type curb ramps with returned curbs or other well-defined edges shall have the edges parallel to the direction of pedestrian flow. Diagonal curb ramps with flared sides shall have a segment of curb 24 inches long minimum located on each side of the curb ramp and within the marked crossing.

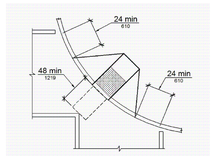


Figure 11B-406.5.10 Diagonal or Corner Type Curb Ramps

11B-406.5.11 Not Applicable.

11B-406.5.12 Detectable Warnings. Curb ramps and blended transitions shall have detectable warnings complying with Section 11B-705.

11B-406.6 Islands. Raised islands in crossings shall be cut through level with the street or have curb ramps at both sides. The clear width of the accessible route at islands shall be 60 inches wide minimum. Where curb ramps are provided, they shall comply with Section 11B-406. Landings complying with Section 11B-406.5.3 and the accessible route shall be permitted to overlap. Islands shall have detectable warnings complying with Section 11B-705.

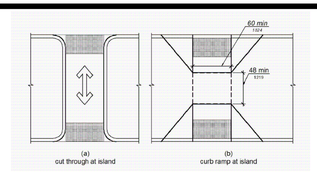


Figure 11B-406.6 Islands in Crossings

11B-407 Elevators

11B-407.1 General. Elevators shall comply with Section 11B-407 and with ASME A17.1. They shall be passenger elevators as classified by ASME A17.1. Elevator operation shall be automatic.

11B-407.1.1 Combined Passenger & Freight Elevators. When the only elevators provided for use by the public and employees are combination passenger and freight elevators, they shall comply with Section 11B-407 and with ASME A17.1.

11B-407.2 Elevator Landing Requirements. Elevator landings shall comply with Section 11B-407.2.

11B-407.2.1 Call Controls. Where elevator call buttons or keypads are provided, they shall comply with Sections 11B-407.2.1 and 11B-309.4.

11B-407.2.1.1 Height. Call buttons and keypads shall be located within one of the reach ranges specified in Section 11B-308, measured to the centerline of the highest operable part.

11B-407.2.1.2 Size & Shape. Call buttons shall have square shoulders, be 3/4 inch minimum in the smallest dimension and shall be raised ¼ inch (3.2 mplus or minus 1/32 inch (0.8 mm) above the surrounding surface. The buttons shall be activated by a mechanical motion that is detectable.

11B-407.2.1.3 Clear Floor or Ground Space. A clear floor or ground space complying with Section 11B-305 shall be provided at call controls.

11B-407.2.1.4 Location. The call button that designates the up direction shall be located above the call button that designates the down direction.

11B-407.2.1.5 Signals. Call buttons shall have visible signals that will activate when each call is registered and will extinguish when each call is answered. Call buttons shall be internally illuminated with a white light over the entire surface of the button.

11B-407.2.1.6 Keypads. Where keypads are provided, keypads shall be in a standard telephone keypad arrangement and shall comply with Section 11B-407.4.7.2.

11B-407.2.2 Hall signals. Hall signals, including in-car signals, shall comply with Section 11B-407.2.2.

11B-407.2.2.1 Visible & Audible Signals. A visible and audible signal shall be provided at each hoistway entrance to indicate which car is answering a call and the car's direction of travel. Where in-car signals are provided, they shall be visible from the floor area adjacent to the hall call buttons.

11B-407.2.2.2 Visible Signals. Visible signal fixtures shall be centered at 72 inches minimum above the finish floor or ground. The visible signal elements shall be a minimum 2 1/2 inches high by 2 1/2 inches wide. Signals shall be visible from the floor area adjacent to the hall call button.

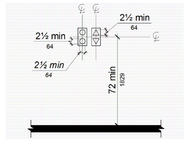


Figure 11B-407.2.2.2 Visible Hall Signals

11B-407.2.2.3 Audible Signals. Audible signals shall sound once for the up direction and twice for the down direction, or shall have verbal annunciators that indicate the direction of elevator car travel. Audible signals shall have a frequency of 1500 Hz maximum. Verbal annunciators shall have a frequency of 300 Hz minimum and 3000 Hz maximum. The audible signal and verbal annunciator shall be 10 dB minimum above ambient, but shall not exceed 80 dB, measured at the hall call button.

11B-407.2.2.4 Not Applicable.

11B-407.2.3 Hoistway Signs. Signs at elevator hoistways shall comply with Section 11B-407.2.3.

11B-407.2.3.1 Floor Designation. Floor designations complying with Sections 11B-703.2 and 11B-703.4.1 shall be provided on both jambs of elevator hoistway entrances. Floor designations shall be provided in both raised characters and Braille. Raised characters shall be 2 inches high. A raised star, placed to the left of the floor designation, shall be provided on both jambs at the main entry level. The outside diameter of the star shall be 2 inches and all points shall be of equal length. Raised characters, including the star, shall be white on a black background. Braille complying with Section 11B-703.3 shall be placed below the corresponding raised characters and the star. The Braille translation for the star shall be "MAIN". Applied plates are acceptable if they are permanently fixed to the jamb.

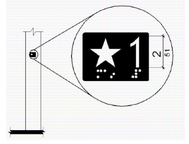


Figure 11B-407.2.3.1 Floor Designations on Jambs of Elevator Hoistway Entrances

11B-407.2.3.2 Not Applicable.

11B-407.3 Elevator Door Requirements. Hoistway and car doors shall comply with Section 11B-407.3.

11B-407.3.1 Type. Elevator doors shall be the horizontal sliding type. Car gates shall be prohibited.

11B-407.3.2 Operation. Elevator hoistway and car doors shall open and close automatically.
Exception: Existing manually operated hoistway swing doors shall be permitted provided that they comply with Sections 11B-404.2.3 and 11B-404.2.9. Car door closing shall not be initiated until the hoistway door is closed.

11B-407.3.3 Reopening Device. Elevator doors shall be provided with a reopening device complying with Section 11B-407.3.3 that shall stop and reopen a car door and hoistway door automatically if the door becomes obstructed by an object or person.
Exception: Existing elevators with manually operated doors shall not be required to comply with Section 11B-407.3.3.

11B-407.3.3.1 Height. The device shall be activated by sensing an obstruction passing through the opening at 5 inches nominal and 29 inches nominal above the finish floor.

11B-407.3.3.2 Contact. The device shall not require physical contact to be activated, although contact is permitted to occur before the door reverses.

11B-407.3.3.3 Duration. Door reopening devices shall remain effective for 20 seconds minimum.

11B-407.3.4 Door & Signal Timing. The minimum acceptable time from notification that a car is answering a call until the doors of that car start to close shall be calculated from the following equation:

T = D/(1.5 ft/s) or T = D/(457 mm/s) = 5 seconds minimum where T equals the total time in seconds and D equals the distance (in feet) from the point in the lobby or corridor 60 inches directly in front of the farthest call button controlling that car to the centerline of its hoistway door.
Exception: For cars with in-car lanterns, T shall be permitted to begin when the signal is visible from the point 60 inches (1524 mm) directly in front of the farthest hall call button and the audible signal is sounded.

11B-407.3.5 Door Delay. Elevator doors shall remain fully open in response to a car call for 5 seconds minimum.

11B-407.3.6 Width. The width of elevator doors shall comply with Table 11B-407.4.1.
Exception: In existing elevators, a power-operated car door complying with Section 11B-404.2.3 shall be permitted.

11B-407.4 Elevator Car Requirements. Elevator cars shall comply with Section 11B-407.4.

11B-407.4.1 Car Dimensions. Inside dimensions of elevator cars and clear width of elevator doors shall comply with Table 11B-407.4.1.
Exception: In existing buildings, where existing shaft configuration prohibits strict compliance with Section 11B-407.4.1, existing elevator car configurations that provide a clear floor area of 18 square feet minimum and also provide an inside clear depth 54 inches minimum and a clear width 48 inches minimum shall be permitted.

Table 11B-407.4.1 Elevator Car Dimensions

	Minimum Dimensions			
Door Location	Door Clear Width	Inside Car, Side to Side	Inside Car, Back Wall to Front Return	Inside Car, Back Wall to Inside Face of Door
Centered	42 inches	80 inches	51 inches	54 inches
Side (off-centered)	36 inches Note 1	66 inches	51 inches	54 inches
Any	36 inches Note 1	54 inches	80 inches	80 inches
Any	36 inches Note 2	60 inches Note 2	60 inches Note 2	60 inches Note 2

Notes:
1. A tolerance of minus 5/8 inch is permitted.
2. Other car configurations that provide a turning space complying with Section 11B-304 with the door closed shall be permitted.

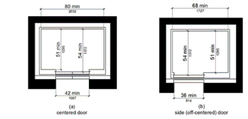


Figure 11B-407.4.1 Elevator Car Dimensions

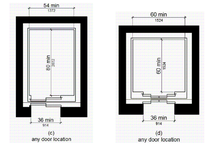


Figure 11B-407.4.1 Elevator Car Dimensions

11B-407.4.2 Floor Surfaces. Floor surfaces in elevator cars shall comply with Sections 11B-302 and 11B-303.

11B-407.4.3 Platform to Hoistway Clearance. The clearance between the car platform sill and the edge of any hoistway landing shall be 1 1/4 inch maximum.

11B-407.4.4 Leveling. Each car shall be equipped with a self-leveling feature that will automatically bring and maintain the car at floor landings within a tolerance of 1/2 inch under rated loading to zero loading conditions.

11B-407.4.5 Illumination. The level of illumination at the car controls, platform, car threshold and car landing sill shall be 5 foot candles minimum.

11B-407.4.6 Elevator Car Controls. Where provided, elevator car controls shall comply with Sections 11B-407.4.6 and 11B-309.4.
Exception: In existing elevators, where a new car operating panel complying with Section 11B-407.4.6 is provided, existing car operating panels may remain operational and shall not be required to comply with Section 11B-407.4.6.

11B-407.4.6.1 Location. Controls shall be located within one of the reach ranges specified in Section 11B-308.
Exceptions:
1. Where the elevator panel serves more than 16 openings and a parallel approach is provided, buttons with floor designations shall be permitted to be 54 inches maximum above the finish floor.
2. In existing elevators, car control buttons with floor designations shall be permitted to be located 54 inches maximum above the finish floor where a parallel approach is provided.

11B-407.4.6.2 Buttons. Car control buttons with floor designations shall comply with Section 11B-407.4.6.2.

11B-407.4.6.2.1 Size & Shape. Buttons shall have square shoulders, be 3/4 inch minimum in their smallest dimension and be raised 1/8 inch plus or minus 1/32 inch above the surrounding surface.

11B-407.4.6.2.2 Arrangement. Buttons shall be arranged with numbers in ascending order. When two or more columns of buttons are provided they shall read from left to right.

11B-407.4.6.2.3 Illumination. Car control buttons shall be illuminated.

11B-407.4.6.2.4 Operation. Car control buttons shall be activated by a mechanical motion that is detectable.

11B-407.4.6.3 Keypads. Car control keypads shall be in a standard telephone keypad arrangement and shall comply with Section 11B-407.4.7.2.

11B-407.4.6.4 Emergency Controls. Emergency controls shall comply with Section 11B-407.4.6.4.

11B-407.4.6.4.1 Height. Emergency control buttons shall have their centerlines 35 inches minimum above the finish floor.

11B-407.4.6.4.2 Location. Emergency controls, including the emergency alarm, shall be grouped at the bottom of the panel.

11B-407.4.7 Designations & Indicators of Car Controls. Designations and indicators of car controls shall comply with Section 11B-407.4.7.
Exception: In existing elevators, where a new car operating panel complying with Section 11B-407.4.7 is provided, existing car operating panels may remain operational and shall not be required to comply with Section 11B-407.4.7.

11B-407.4.7.1 Buttons. Car control buttons shall comply with Section 11B-407.4.7.1.

11B-407.4.7.1.1 Type. Control buttons shall be identified by raised characters or symbols, white on a black background, complying with Section 11B-703.2 and Braille complying with Section 11B-703.3.

11B-407.4.7.1.2 Location. Raised characters or symbols and Braille designations shall be placed immediately to the left of the control button to which the designations apply.

11B-407.4.7.1.3 Symbols. The control button for the emergency stop, alarm, door open, door close, main entry floor, and phone, shall be identified with raised symbols and Braille as shown in Table 11B-407.4.7.1.3.

Table 11B-407.4.7.1.3 Elevator Control Button Identification

Control Button	Raised Symbol	Braille Message
Emergency Stop	⊗	"STOP" Three Cells
Alarm	🔔	"ALARM" Four Cells
Door Open	⇹	"OPEN" Three Cells
Door Close	⇥⇤	"CLOSE" Five Cells
Main Entry Floor	★	"MAIN" Three Cells
Phone	📞	"PHONE" Four Cells

11B-407.4.7.1.4 Visible Indicators. Buttons with floor designations shall be provided with visible indicators to show that a call has been registered. The visible indication shall extinguish when the car arrives at the designated floor.

11B-407.4.7.1.5 Button Spacing. A minimum clear space of 3/8 inch or other suitable means of separation shall be provided between rows of control buttons.

11B-407.4.7.2 Keypads. Keypads shall be identified by characters complying with Section 11B-703.5 and shall be centered on the corresponding keypad button. The number five key shall have a single raised dot. The dot shall be 0.118 inch to 0.120 inch base diameter and in other aspects comply with Table 11B-703.3.1.

11B-407.4.8 Car Position Indicators. Audible and visible car position indicators shall be provided in elevator cars.

11B-407.4.8.1 Visible Indicators. Visible indicators shall comply with Section 11B-407.4.8.1.

11B-407.4.8.1.1 Size. Characters shall be 1/2 inch high minimum.

11B-407.4.8.1.2 Location. Indicators shall be located above the car control panel or above the door.

11B-407.4.8.1.3 Floor arrival. As the car passes a floor and when a car stops at a floor served by the elevator, the corresponding character shall illuminate.

11B-407.4.8.1.4 Not Applicable.

11B-407.4.8.2 Audible Indicators. Audible indicators shall comply with Section 11B-407.4.8.2.

11B-407.4.8.2.1 Signal Type. The signal shall be an automatic verbal annunciator which announces the floor at which the car is about to stop.
Exception: For elevators that have a rated speed of 200 feet per minute or less, a non-verbal audible signal with a frequency of 1500 Hz maximum which sounds as the car passes or is about to stop at a floor served by the elevator shall be permitted.

11B-407.4.8.2.2 Signal Level. The verbal annunciator shall be 10 dB minimum above ambient, but shall not exceed 80 dB, measured at the annunciator.

11B-407.4.8.2.3 Frequency. The verbal annunciator shall have a frequency of 300 Hz minimum to 3000 Hz maximum.

11B-407.4.9 Emergency Communication. Emergency two-way communication systems shall comply with Section 11B-308. Raised symbols or characters, white on a black background, and Braille shall be provided adjacent to the device and shall comply with Sections 11B-703.2 and 11B-703.3. Emergency two-way communication systems between the elevator and a point outside the hoistway shall comply with ASME A17.1.

11B-407.4.10 Support Rail. Support rails shall be provided on at least one wall of the car.

11B-407.4.10.1 Location. Clearance between support rails and adjacent surfaces shall be 1 1/2 inches minimum. Top of support rails shall be 31 inches minimum to 33 inches maximum above the floor of the car. The ends of the support rail shall be 6 inches maximum from adjacent walls.

11B-407.4.10.2 Surfaces. Support rails shall be smooth and any surface adjacent to them shall be free of sharp or abrasive elements.

11B-407.4.10.3 Structural Strength. Allowable stresses shall not be exceeded for materials used when a vertical or horizontal force of 250 pounds is applied at any point on the support rail, fastener, mounting device, or supporting structure.

11B-408 Limited-Use/Limited-Application Elevators

11B-408.1 General. Limited-use/limited-application elevators shall comply with Section 11B-408 and with ASME A17.1. They shall be passenger elevators as classified by ASME A17.1. Elevator operation shall be automatic.

11B-408.2 Elevator Landings. Landings serving limited-use/limited-application elevators shall comply with Section 11B-408.2.

11B-408.2.1 Call Buttons. Elevator call buttons and keypads shall comply with Section 11B-407.2.1.

11B-408.2.2 Hall Signals. Hall signals shall comply with Section 11B-407.2.2.

11B-408.2.3 Hoistway Signs. Signs at elevator hoistways shall comply with Section 11B-407.2.3.1.

11B-408.3 Elevator Doors. Elevator hoistway doors shall comply with Section 11B-408.3.

11B-408.3.1 Sliding Doors. Sliding hoistway and car doors shall comply with Sections 11B-407.3.1 through 11B-407.3.3 and 11B-408.4.1.

11B-408.3.2 Swinging Doors. Swinging hoistway doors shall open and close automatically and shall comply with Sections 11B-404, 11B-407.3.2 and 11B-408.3.2.

11B-408.3.2.1 Power Operation. Swinging doors shall be power-operated and shall comply with ANSI/BHMA A156.19.

11B-408.3.2.2 Duration. Power-operated swinging doors shall remain open for 20 seconds minimum when activated.

11B-408.4 Elevator Cars. Elevator cars shall comply with Section 11B-408.4.

11B-408.4.1 Car Dimensions & Doors. Elevator cars shall provide a clear width 42 inches minimum and a clear depth 54 inches minimum. Car doors shall be positioned at the narrow ends of cars and shall provide 32 inches minimum clear width.
Exceptions: Cars that provide a clear width 51 inches minimum shall be permitted to provide a clear depth 51 inches minimum provided that car doors provide a clear opening 36 inches wide minimum.

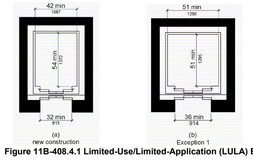


Figure 11B-408.4.1 Limited-Use/Limited-Application (LULA) Elevator Car Dimensions

11B-408.4.2 Floor Surfaces. Floor surfaces in elevator cars shall comply with Sections 11B-302 and 11B-303.

11B-408.4.3 Platform to Hoistway Clearance. The platform to hoistway clearance shall comply with Section 11B-407.4.3.

11B-408.4.4 Leveling. Elevator car leveling shall comply with Section 11B-407.4.4.

11B-408.4.5 Illumination. Elevator car illumination shall comply with Section 11B-407.4.5.

11B-408.4.6 Car Controls. Elevator car controls shall comply with Section 11B-407.4.6. Control panels shall be centered on a side wall.

11B-408.4.7 Designations & Indicators of Car Controls. Designations and indicators of car controls shall comply with Section 11B-407.4.7.

11B-408.4.8 Emergency Communications. Car emergency signaling devices complying with Section 11B-407.4.9 shall be provided.

11B-409 Private Residence Elevators Not Applicable.

11B-410 Platform lifts

11B-410.1 General. Platform lifts shall comply with ASME A18.1. Platform lifts shall not be attendant-operated and shall provide unassisted entry and exit from the lift.

11B-410.2 Floor Surfaces. Floor surfaces in platform lifts shall comply with Sections 11B-302 and 11B-303.

11B-410.3 Clear Floor Space. Clear floor space in platform lifts shall comply with Section 11B-305.

11B-410.4 Platform to Runway Clearance. The clearance between the platform sill and the edge of any runway landing shall be 1 1/4 inch maximum.

11B-410.5 Operable Parts. Controls for platform lifts shall comply with Section 11B-309.
11B-410.6 Doors & Gates. Platform lifts shall have low-energy power-operated doors or gates complying with Section 11B-404.3. Doors shall remain open for 20 seconds minimum. End doors and gates shall provide a clear width 32 inches minimum. Side doors and gates shall provide a clear width 42 inches minimum.
Exception: Platform lifts serving two landings maximum and having doors or gates on opposite sides shall be permitted to have self-closing manual doors or gates.

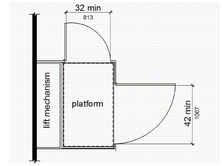


Figure 11B-410.6Platform Lift Doors and Gates

11B-410.7 Landing Size. The minimum size of landings at platform lifts shall be 60 inches by 60 inches.

11B-410.8 Restriction Sign. A sign complying with Section 11B-703.5 shall be posted in a conspicuous place at each landing and within the platform enclosure stating "No Freight" and include the International Symbol of Accessibility complying with Section 11B-703.7.2.1.

11B-411 Destination-Oriented Elevators Not Applicable.

DIVISION 5: GENERAL SITE & BUILDING ELEMENTS

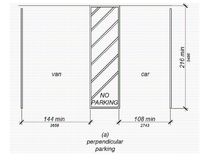
11B-501 General

11B-501.1 Scope. The provisions of Division 5 shall apply where required by Division 2 or where referenced by a requirement in this chapter.

11B-502 Parking Spaces

11B-502.1 General. Car and van parking spaces shall comply with Section 11B-502. Where parking spaces are marked with lines, width measurements of parking spaces and access aisles shall be made from the centerline of the markings.
Exception: Where parking spaces or access aisles are not adjacent to another parking space or access aisle, measurements shall be permitted to include the full width of the line defining the parking space or access aisle.

11B-502.2 Vehicle Spaces. Car and van parking spaces shall be 216 inches long minimum. Car parking spaces shall be 108 inches wide minimum and van parking spaces shall be 144 inches wide minimum, shall be marked to define the width, and shall have an adjacent access aisle complying with Section 11B-502.3.
Exception: Van parking spaces shall be permitted to be 108 inches wide minimum where the access aisle is 96 inches wide minimum.



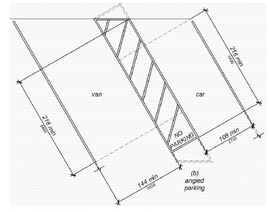


Figure 11B-502.2 Vehicle Parking Spaces

11B-502.3 Access Aisle. Access aisles serving parking spaces shall comply with Section 11B-502.3. Access aisles shall adjoin an accessible route. Two parking spaces shall be permitted to share a common access aisle.

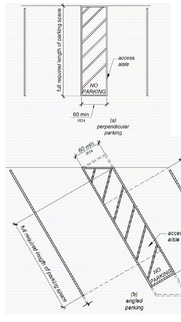


Figure 11B-502.3 Parking Space Access Aisle

arch5design
2825 Dewey Road, Unit 207
San Diego, CA 92106
Phone: 619.546.9670

FALLBROOK
HEALTH & WELLNESS CENTER
1636 E. MISSION RD
FALLBROOK, CA 92028

REVISIONS

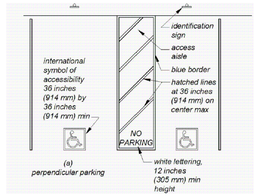
DATE	DESCRIPTION

Bid Issue Date: TBD
Date: 10/23/24
Scale: AS NOTED
Project No.
Sheet Title:
ACCESSIBILITY NOTES
Sheet No.:
T1.4

11B-502.3.1 Width. Access aisles serving car and van parking spaces shall be 60 inches wide minimum.

11B-502.3.2 Length. Access aisles shall extend the full required length of the parking spaces they serve.

11B-502.3.3 Marking. Access aisles shall be marked with a blue painted borderline around their perimeter. The area within the blue borderlines shall be marked with hatched lines a maximum of 36 inches on center in a color contrasting with that of the aisle surface, preferably blue or white. The words "NO PARKING" shall be painted on the surface within each access aisle in white letters a minimum of 12 inches in height and located to be visible from the adjacent vehicular way. Access aisle markings may extend beyond the minimum required length.



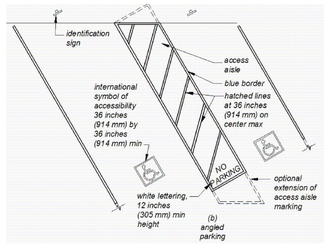


Figure 11B-502.3.3 Angled and Perpendicular Parking Identification

11B-502.3.4 Location. Access aisles shall not overlap the vehicular way. Access aisles shall be permitted to be placed on either side of the parking space except for van parking spaces which shall have access aisles located on the passenger side of the parking spaces.

11B-502.4 Floor or Ground Surfaces. Parking spaces and access aisles serving them shall comply with Section 11B-302. Access aisles shall be at the same level as the parking spaces they serve. Changes in level are not permitted.
Exception: Slopes not steeper than 1:48 shall be permitted.

11B-502.5 Vertical Clearance. Parking spaces, access aisles and vehicular routes serving them shall provide a vertical clearance of 98 inches minimum.

11B-502.6 Identification. Parking space identification signs shall include the International Symbol of Accessibility complying with Section 11B-703.7.2.1 in white on a blue background. Signs identifying van parking spaces shall contain additional language or an additional sign with the designation "Van Accessible". Signs shall be 60 inches minimum above the finish floor or ground surface measured to the bottom of the sign.
Exception: Signs located within a circulation path shall be a minimum of 80 inches above the finish floor or ground surface measured to the bottom of the sign.

11B-502.6.1 Finish & Size. Parking identification signs shall be reflectorized with a minimum area of 70 square inches..

11B-502.6.2 Minimum fine. Additional language or an additional sign below the International Symbol of Accessibility shall state "Minimum Fine $250".

11B-502.6.3 Location. A parking space identification sign shall be visible from each parking space. Signs shall be permanently posted either immediately adjacent to the parking space or within the projected parking space width at the head end of the parking space. Signs may also be permanently posted on a wall at the interior end of the parking space.

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 on a 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.

11B-502.6.4.2 The parking space shall be outlined in blue or painted blue and shall be marked with an International Symbol of Accessibility complying with Section 11B-703.7.2.1 a minimum 36 inches wide by 36 inches high in white or a suitable contrasting color. 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.

11B-502.7 Relationship to Accessible Routes. Parking spaces and access aisles shall be designed so that cars and vans, when parked, cannot obstruct the required clear width of adjacent accessible routes.

11B-502.7.1 Arrangement. Parking spaces and access aisles shall be designed so that persons using them are not required to travel behind parking spaces other than to pass behind the parking space in which they parked.

11B-502.7.2 Wheel stops. A curb or wheel stop shall be provided if required to prevent encroachment of vehicles over the required clear width of adjacent accessible routes.

11B-502.8 Additional signs. An additional sign shall be posted either; 1) in a conspicuous place at each entrance to an off-street parking facility or 2) immediately adjacent to on-site accessible parking and visible from each parking space.

11B-502.8.1 Size. The additional sign shall not be less than 17 inches wide by 22 inches high.

11B-502.8.2 Lettering. The additional sign shall clearly state in letters with a minimum height of 1 inch the following:

"Unauthorized vehicles parked in designated accessible spaces not displaying distinguishing placards or special license plates issued for persons with disabilities will be towed away at the owner's expense. Towed vehicles may be reclaimed at: _____ or by telephoning _____."

Blank spaces shall be filled in with appropriate information as a permanent part of the sign.

11B-503 Passenger Drop-off & Loading Zones

11B-503.1 General. Passenger drop-off and loading zones shall comply with Section 11B-503.

11B-503.2 Vehicle pull-up space. Passenger drop-off and loading zones shall provide a vehicular pull-up space 96 inches wide minimum and 20 feet long minimum.

11B-503.3 Access Aisle. Passenger drop-off and loading zones shall provide access aisles complying with Section 11B-503 adjacent and parallel to the vehicle pull-up space. Access aisles shall adjoin an accessible route and shall not overlap the vehicular way.

11B-503.3.1 Width. Access aisles serving vehicle pull-up spaces shall be 60 inches wide minimum.

11B-503.3.2 Length. Access aisles shall extend the full length of the vehicle pull-up spaces they serve.

11B-503.3.3 Marking. Access aisles shall be marked with a painted borderline around their perimeter. The area within the borderlines shall be marked with hatched lines a maximum of 36 inches on center in a color contrasting with that of the aisle surface.

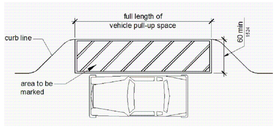


Figure 11B-503.3 Passenger Drop-Off & Loading Zone Access Aisle

11B-503.4 Floor & Ground Surfaces. Vehicle pull-up spaces and access aisles serving them shall comply with Section 11B-302. Access aisles shall be at the same level as the vehicle pull-up space they serve. Changes in level are not permitted.
Exception: Slopes not steeper than 1:48 shall be permitted.

11B-503.5 Vertical clearance. Vehicle pull-up spaces, access aisles serving them, and a vehicular route from an entrance to the passenger loading zone and from the passenger loading zone to a vehicular exit shall provide a vertical clearance of 114 inches minimum.

11B-504 Stairways

11B-504.1 General. Stairs shall comply with Section 11B-504.

11B-504.2 Treads & Risers. All steps on a flight of stairs shall have uniform riser heights and uniform tread depths. Risers shall be 4 inches high minimum and 7 inches high maximum. Treads shall be 11 inches deep minimum.
Exception: Curved stairways with winder treads are permitted at stairs which are not part of a required means of egress.

11B-504.3 Open Risers. Open risers are not permitted.
Exceptions:
1. On exterior stairways, an opening of not more than 1/2 inch may be permitted between the base of the riser and the tread.
2. On exterior stairways, risers constructed of grating containing openings of not more than 1/2 inch may be permitted.

11B-504.4 Tread Surface. Stair treads shall comply with Section 11B-302. Changes in level are not permitted.
Exception: Treads shall be permitted to have a slope not steeper than 1:48.

11B-504.4.1 Contrasting Stripe. Interior stairs shall have the upper approach and lower tread marked by a stripe providing clear visual contrast. Exterior stairs shall have the upper approach and all treads marked by a stripe providing clear visual contrast.

The stripe shall be a minimum of 2 inches wide to a maximum of 4 inches wide placed parallel to, and not more than 1 inch from, the nose of the step or upper approach. The stripe shall extend the full width of the step or upper approach and shall be of material that is at least as slip resistant as the other treads of the stair. A painted stripe shall be acceptable. Grooves shall not be used to satisfy this requirement.

11B-504.5 Nosings. The radius of curvature at the leading edge of the tread shall be 1/2 inch maximum. Nosings that project beyond risers shall have the underside of the leading edge curved or beveled. Risers shall be permitted to slope under the tread at an angle of 30 degrees maximum from vertical. The permitted projection of the nosing shall extend 1 1/4 inches maximum over the tread below.
Exception: In existing buildings there is no requirement to retroactively alter existing nosing projections of 1 1/2 inches which were constructed in compliance with the building code in effect at the time of original construction.

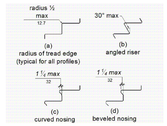


Figure 11B-504.5 Stair Nosings

11B-504.6 Handrails. Stairs shall have handrails complying with Section 11B-505.

11B-504.7 Wet Conditions. Stair treads and landings subject to wet conditions shall be designed to prevent the accumulation of water.

11B-504.8 Floor Identification. Floor identification signs required by Chapter 10, Section 1023.9 complying with Sections 11B-703.1, 11B-703.2, 11B-703.3 and 11B-703.5 shall be located at the landing of each floor level, placed adjacent to the door on the latch side, in all enclosed stairways in buildings two or more stories in height to identify the floor level. At the exit discharge level, the sign shall include a raised five pointed star located to the left of the identifying floor level. The outside diameter of the star shall be the same as the height of the raised characters.

11B-505 Handrails

11B-505.1 General. Handrails provided along walking surfaces complying with Section 11B-403, required at ramps complying with Section 11B-405, and required at stairs complying with Section 11B-504 shall comply with Section 11B-505.

11B-505.2 Where Required. Handrails shall be provided on both sides of stairs and ramps.
Exceptions:
1. In assembly areas, handrails shall not be required on both sides of aisle ramps where a handrail is provided at either side or within the aisle width.
2. Curb ramps do not require handrails.
3. At door landings, handrails are not required when the ramp run is less than 6 inches in rise or 72 inches in length.

11B-505.2.1 Orientation. The orientation of at least one handrail shall be in the direction of the stair run, perpendicular to the direction of the stair nosing, and shall not reduce the minimum required width of the stair.

11B-505.3 Continuity. Handrails shall be continuous within the full length of each stair flight or ramp run. Inside handrails on switchback or dogleg stairs and ramps shall be continuous between flights or runs. Exception: In assembly areas, ramp handrails adjacent to seating or within the aisle width shall not be required to be continuous in aisles serving seating.

11B-505.4 Height. Top of gripping surfaces of handrails shall be 34 inches minimum and 38 inches maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces.

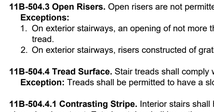


Figure 11B-505.4 Handrail Height

11B-505.5 Clearance. Clearance between handrail gripping surfaces and adjacent surfaces shall be 1 1/2 inches minimum. Handrails may be located in a recess if the recess is 3 inches maximum deep and 18 inches minimum clear above the top of the handrail.

Figure 11B-505.5 Handrail Clearance

11B-505.6 Gripping Surface. Handrail gripping surfaces shall be continuous along their length and shall not be obstructed along their tops or sides. The bottoms of handrail gripping surfaces shall not be obstructed for more than 20 percent of their length. Where provided, horizontal projections shall occur 1½ inches (38 mm) minimum below the bottom of the handrail gripping surface.
Exceptions:
1. Where handrails are provided along walking surfaces with slopes not steeper than 1:20, the bottoms of handrail gripping surfaces shall be permitted to be obstructed along their entire length where they are integral to crash rails or bumper guards.
2. The distance between horizontal projections and the bottom of the gripping surface shall be permitted to be reduced by 1/8 inch for each 1/2 inch of additional handrail perimeter dimension that exceeds 4 inches.

Figure 11B-505.6 Horizontal Projections Below Gripping Surface

11B-505.7 Cross Section. Handrail gripping surfaces shall have a cross section complying with Section 11B-505.7.1 or 11B-505.7.2.

11B-505.7.1 Circular Cross Section. Handrail gripping surfaces with a circular cross section shall have an outside diameter of 1 1/2 inches minimum and 2 inches maximum.

11B-505.7.2 Non-Circular Cross Sections. Handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4 inches minimum and 6 1/4 inches maximum, and a cross-section dimension of 2 1/2 inches maximum.

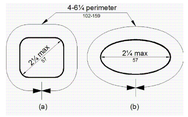


Figure 11B-505.7.2 Handrail Non-Circular Cross Section

11B-505.8 Surfaces. Handrail gripping surfaces and any surfaces adjacent to them shall be free of sharp or abrasive elements and shall have rounded edges.

11B-505.9 Fittings. Handrails shall not rotate within their fittings.

11B-505.10 Handrail Extensions. Handrail gripping surfaces shall extend beyond and in the same direction of stair flights and ramp runs in accordance with Section 11B-505.10.
Exceptions:
1. Extensions shall not be required for continuous handrails at the inside turn of switchback or dogleg stairs and ramps.
2. In assembly areas, extensions shall not be required for ramp handrails in aisles serving seating where the handrails are discontinuous to provide access to seating and to permit crossovers within aisles.
3. In alterations, where the extension of the handrail in the direction of stair flight or ramp run would create a hazard, the extension of the handrail may be turned 90 degrees from the direction of stair flight or ramp run.

11B-505.10.1 Top & Bottom Extension at Ramps. Ramp handrails shall extend horizontally above the landing for 12 inches minimum beyond the top and bottom of ramp runs. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent ramp run.

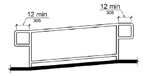


Figure 11B-505.10.1 Top and Bottom Handrail Extension at Ramps

11B-505.10.2 Top Extension at Stairs. At the top of a stair flight, handrails shall extend horizontally above the landing for 12 inches minimum beginning directly above the first riser nosing. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.

Figure 11B-505.10.2 Top Handrail Extension at Stairs

11B-505.10.3 Bottom Extension at Stairs. At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance equal to one tread depth beyond the last riser nosing. The horizontal extension of a handrail shall be 12 inches long minimum and a height equal to that of the sloping portion of the handrail as measured above the stair nosings. Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.

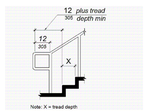


Figure 11B-505.10.3 Bottom Handrail Extension at Stairs

DIVISION 6: PLUMBING ELEMENTS & FACILITIES

11B-601 General

11B-601.1 Scope. The provisions of Division 6 shall apply where required by Division 2 or where referenced by a requirement in this chapter.

11B-602 Drinking Fountains Not Applicable.

11B-603 Toilet & Bathing Rooms

11B-603.1 General. Toilet and bathing rooms shall comply with Section 11B-603.

11B-603.2 Clearances. Clearances shall comply with Section 11B-603.2.

11B-603.2.1 Turning Space. Turning space complying with Section 11B-304 shall be provided within the room.

11B-603.2.2 Overlap. Required clear floor spaces, clearance at fixtures, and turning space shall be permitted to overlap.

11B-603.2.3 Door Swing. Doors shall not swing into the clear floor space or clearance required for any fixture. Doors to accessible water closet compartments shall be permitted to encroach into the turning space without limitation. Other than doors to accessible water closet compartments, a door, in any position, shall be permitted to encroach into the turning space by 12 inches maximum.
Exceptions:
1. Not Applicable.
2. Where the toilet room or bathing room is for individual use and a clear floor space complying with Section 11B-305.3 is provided within the room beyond the arc of the door swing, doors shall be permitted to swing into the clear floor space or clearance required for any fixture.

11B-603.3 Mirrors. Mirrors located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface 40 inches maximum above the finish floor or ground. Mirrors not located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface 35 inches maximum above the finish floor or ground.

11B-603.4 Coat Hooks, Shelves & Medicine Cabinets. Coat hooks shall be located within one of the reach ranges specified in Section 11B-308. Shelves shall be located 40 inches minimum and 48 inches maximum above the finish floor. Medicine cabinets shall be located with a usable shelf no higher than 44 inches maximum above the finish floor.

11B-603.5 Accessories. Where towel or sanitary napkin dispensers, waste receptacles, or other accessories are provided in toilet facilities, at least one of each type shall be located on an accessible route. All operable parts, including coin slots, shall be 40 inches maximum above the finish floor.
Exception: Baby changing tables are not required to comply with Section 11B-603.5.

11B-603.6 Guest Room Toilet & Bathing Rooms. Toilet and bathing rooms within guest rooms that are not required to provide mobility features complying with Section 11B-806.2 shall provide all toilet and bathing fixtures in a location that allows a person using a wheelchair measuring 30 inches by 48 inches to touch the wheelchair to any lavatory, urinal, water closet, tub, sauna, shower stall and any other similar sanitary installation, if provided.

11B-604 Water Closets & Toilet Compartments

11B-604.1 General. Water closets and toilet compartments shall comply with Sections 11B-604.2 through 11B-604.8.
Exception: Water closets and toilet compartments for children's use shall be permitted to comply with Section 11B-604.9.

11B-604.2 Location. The water closet shall be positioned with a wall or partition to the rear and to one side. The centerline of the water closet shall be 17 inches minimum to 18 inches maximum from the side wall or partition, except that the water closet shall be 17 inches minimum and 19 inches maximum from the side wall or partition in the ambulatory accessible toilet compartment specified in Section 11B-604.8.2. Water closets shall be arranged for a left-hand or right-hand approach.

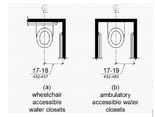


Figure 11B-604.2 Water Closet Location

11B-604.3 Clearance. Clearances around water closets and in toilet compartments shall comply with Section 11B-604.3.

11B-604.3.1 Size. Clearance around a water closet shall be 60 inches minimum measured perpendicular from the side wall and 56 inches minimum measured perpendicular from the rear wall. A minimum 60 inches wide and 48 inches deep maneuvering space shall be provided in front of the water closet.

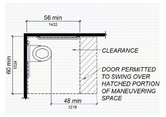


Figure 11B-604.3.1 Size of Clearance at Water Closets

11B-604.3.2 Overlap. The required clearance around the water closet shall be permitted to overlap the water closet, associated grab bars, dispensers, sanitary napkin disposal units, coat hooks, shelves, accessible routes, clear floor space and clearances required at other fixtures, and the turning space. No other fixtures or obstructions shall be located within the required water closet clearance.

11B-604.4 Seats. The seat height of a water closet above the finish floor shall be 17 inches minimum and 19 inches maximum measured to the top of the seat. Seats shall not be sprung to return to a lifted position. Seats shall be 2 inches high maximum.

11B-604.5 Grab Bars. Grab bars for water closets shall comply with Section 11B-609. Grab bars shall be provided on the side wall closest to the water closet and on the rear wall. Where separate grab bars are required on adjacent walls at a common mounting height, an L-shaped grab bar meeting the dimensional requirements of Sections 11B-604.5.1 and 11B-604.5.2 shall be permitted.

11B-604.5.1 Side Wall. The side wall grab bar shall be 42 inches long minimum, located 12 inches maximum from the rear wall and extending 54 inches minimum from the rear wall with the front end positioned 24 inches minimum in front of the water closet.

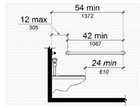


Figure 11B-604.3.1 Size of Clearance at Water Closets

11B-604.3.2 Overlap. The required clearance around the water closet shall be permitted to overlap the water closet, associated grab bars, dispensers, sanitary napkin disposal units, coat hooks, shelves, accessible routes, clear floor space and clearances required at other fixtures, and the turning space. No other fixtures or obstructions shall be located within the required water closet clearance.

11B-604.4 Seats. The seat height of a water closet above the finish floor shall be 17 inches minimum and 19 inches maximum measured to the top of the seat. Seats shall not be sprung to return to a lifted position. Seats shall be 2 inches high maximum.

11B-604.5 Grab Bars. Grab bars for water closets shall comply with Section 11B-609. Grab bars shall be provided on the side wall closest to the water closet and on the rear wall. Where separate grab bars are required on adjacent walls at a common mounting height, an L-shaped grab bar meeting the dimensional requirements of Sections 11B-604.5.1 and 11B-604.5.2 shall be permitted.

11B-604.5.1 Side Wall. The side wall grab bar shall be 42 inches long minimum, located 12 inches maximum from the rear wall and extending 54 inches minimum from the rear wall with the front end positioned 24 inches minimum in front of the water closet.

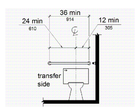


Figure 11B-604.5.2 Rear Wall Grab Bar at Water Closets

11B-604.6 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with Section 11B-309 except they shall be located 44 inches maximum above the floor. Flush controls shall be located on the open side of the water closet except in ambulatory accessible compartments complying with Section 11B-604.8.2.

11B-604.7 Dispensers. Toilet paper dispensers shall comply with Section 11B-309.4 and shall be 7 inches minimum and 9 inches maximum in front of the water closet measured to the centerline of the dispenser. The outlet of the dispenser shall be below the grab bar, 19 inches minimum above the finish floor and shall not be located behind grab bars. Dispensers shall not be of a type that controls delivery or that does not allow continuous paper flow.

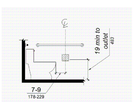


Figure 11B-604.7 Dispenser Outlet Location

11B-604.8 Toilet Compartments. Wheelchair accessible toilet compartments shall meet the requirements of Sections 11B-604.8.1 and 11B-604.8.3. Compartments containing more than one plumbing fixture shall comply with Section 11B-603. Ambulatory accessible compartments shall comply with Sections 11B-604.8.2 and 11B-604.8.3.

11B-604.8.1 Wheelchair Accessible Compartments. Wheelchair accessible compartments shall comply with Section 11B-604.8.1.

11B-604.8.1.1 Size. Wheelchair accessible compartments shall be 60 inches wide minimum measured perpendicular to the side wall, and 56 inches deep minimum for wall hung water closets and 59 inches deep minimum for floor mounted water closets measured perpendicular to the rear wall. Wheelchair accessible compartments shall additionally provide maneuvering space complying with Section 11B-604.8.1.1.1, 11B-604.8.1.1.2, or 11B-604.8.1.1.3, as applicable.

11B-604.8.1.1.1 Maneuvering Space With In-Swinging door. In a wheelchair accessible compartment with an in-swinging door, a minimum 60 inches wide by 36 inches deep maneuvering space shall be provided in front of the clearance required in Section 11B-604.8.1.1. See Figures 11B-604.8.1.1.2 (b) and 11B-604.8.1.1.3 (b).

11B-604.8.1.1.2 Maneuvering Space With Side-Opening Door. In a wheelchair accessible compartment with a door located in the side wall or partition, either in-swinging or out-swinging, a minimum 60 inches wide and 60 inches deep maneuvering space shall be provided in front of the water closet. See Figure 11B-604.8.1.1.2.

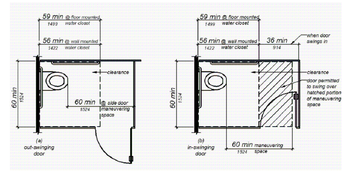


Figure 11B-604.8.1.1.2 Maneuvering Space with Side-Opening Door

11B-604.8.1.1.3 Maneuvering Space With End-Opening Door. In a wheelchair accessible compartment with a door located in the front wall or partition (facing the water closet), either in-swinging or out-swinging, a minimum 60 inches wide and 48 inches deep maneuvering space shall be provided in front of the water closet. See Figure 11B-604.8.1.1.3.

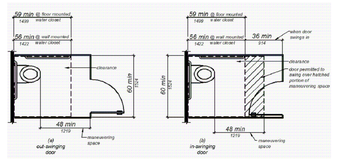


Figure 11B-604.8.1.1.3 Maneuvering Space with End-Opening Door

11B-604.8.1.2 Doors. Toilet compartment doors, including door hardware, shall comply with Section 11B-404 except that if the approach is from the push side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 48 inches minimum measured perpendicular to the compartment door in its closed position. Doors shall be located in the front partition or in the side wall or partition farthest from the water closet. Where located in the front partition, the door opening shall be 4 inches maximum from the side wall or partition farthest from the water closet. Where located in the side wall or partition, the door opening shall be 4 inches maximum from the front partition. The door shall be self-closing. A door pull complying with Section 11B-404.2.7 shall be placed on both sides of the door near the latch. Doors shall not swing into the clear floor space or clearance required for any fixture. Doors may swing into that portion of maneuvering space which does not overlap the clearance required at a water closet.
Exception: When located at the side of a toilet compartment, the toilet compartment door opening shall provide a clear width of 34 inches minimum.

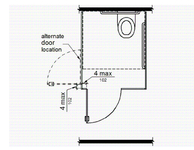


Figure 11B-604.8.1.2 Wheelchair Accessible Toilet Compartment Doors

11B-604.8.1.3 Approach. Compartments shall be arranged for left-hand or right-hand approach to the water closet.

11B-604.8.1.4 Toe Clearance. At least one side partition shall provide a toe clearance of 9 inches minimum above the finish floor and 6 inches deep minimum beyond the compartment-side face of the partition, exclusive of partition support members. Partition components at toe clearances shall be smooth without sharp edges or abrasive surfaces.
Exception: Toe clearance at the side partition is not required in a compartment greater than 66 inches wide.

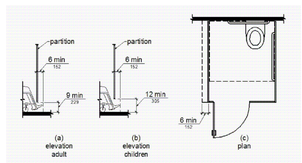


Figure 11B-604.8.1.4 Wheelchair Accessible Toilet Compartment Toe Clearance

11B-604.8.1.5 Grab Bars. Grab bars shall comply with Section 11B-609. A side-wall grab bar complying with Section 11B-604.5.1 shall be provided and shall be located on the wall closest to the water closet. In addition, a rear-wall grab bar complying with Section 11B-604.5.2 shall be provided. Where separate grab bars are required on adjacent walls at a common mounting height, an L-shaped grab bar meeting the dimensional requirements of Sections 11B-604.5.1 and 11B-604.5.2 shall be permitted.

11B-604.8.2 Ambulatory Accessible Compartments. Ambulatory accessible compartments shall comply with Section 11B-604.8.2.

11B-604.8.2.1 Size. Ambulatory accessible compartments shall have a depth of 60 inches minimum and a width of 35 inches minimum and 37 inches maximum.

11B-604.8.2.2 Doors. Toilet compartment doors, including door hardware, shall comply with Section 11B-404, except that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 44 inches minimum. The door shall be self-closing. A door pull complying with Section 11B-404.2.7 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the minimum required compartment area.

11B-604.8.2.3 Grab Bars. Grab bars shall comply with Section 11B-609. A side-wall grab bar complying with Section 11B-604.5.1 shall be provided on both sides of the compartment.

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REVISIONS

DESCRIPTION	DATE

Bid Issue Date: TBD
Date: 10/23/24
Scale: AS NOTED
Project No.
Sheet Title:
ACCESSIBILITY NOTES
Sheet No.:
T1.5

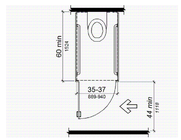

Figure 11B-604.8.2 Ambulatory Accessible Toilet Compartment

11B-604.8.3 Coat Hooks & Shelves. Coat hooks shall be located within one of the reach ranges specified in Section 11B-308. Shelves shall be located 40 inches minimum and 48 inches maximum above the finish floor.

11B-604.9 Water Closets & Toilet Compartments for Children's Use. Not Applicable.

11B-605 Urinals

11B-605.1 General. Urinals shall comply with Section 11B-605.

11B-605.2 Height & Depth. Urinals shall be the stall-type or the wall-hung type with the rim 17 inches maximum above the finish floor or ground. Urinals shall be 13 1/2 inches deep minimum measured from the outer face of the urinal rim to the back of the fixture.

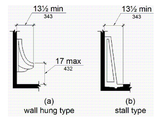

Figure 11B-605.2 Height and Depth of Urinals

11B-605.3 Clear Floor Space. A clear floor or ground space complying with Section 11B-305 positioned for forward approach shall be provided.

11B-605.4 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with Section 11B-309 except that the flush control shall be mounted at a maximum height of 44 inches above the finish floor.

11B-606 Lavatories & Sinks

11B-606.1 General. Lavatories and sinks shall comply with Section 11B-606.

11B-606.2 Clear Floor Space. A clear floor space complying with Section 11B-305, positioned for a forward approach, and knee and toe clearance complying with Section 11B-306 shall be provided.
Exceptions:
1. A parallel approach complying with Section 11B-305 shall be permitted to wet bars.
2. No Applicable.
3. Not Applicable.
4. Not Applicable.
5. Not Applicable.
6. The dip of the overflow shall not be considered in determining knee and toe clearances.
7. No more than one bowl of a multi-bowl sink shall be required to provide knee and toe clearance complying with Section 11B-306.

11B-606.3 Height. Lavatories and sinks shall be installed with the front of the higher of the rim or counter surface 34 inches maximum above the finish floor or ground.

11B-606.4 Faucets. Controls for faucets shall comply with Section 11B-309. Hand-operated metering faucets shall remain open for 10 seconds minimum.

11B-606.5 Exposed Pipes & Surfaces. Water supply and drain pipes under lavatories and sinks shall be insulated or otherwise configured to protect against contact. There shall be no sharp or abrasive surfaces under lavatories and sinks.

11B-606.6 Adjacent Side Wall or Partition. Lavatories, when located adjacent to a side wall or partition, shall be a minimum of 18 inches to the centerline of the fixture.

11B-606.7 Sink Depth. Where a forward approach is required at a sink, knee and toe clearance shall be provided in compliance with Section 11B-306.

11B-607 Bathtubs Not Applicable.

11B-608 Shower Compartments Not Applicable.

11B-609 Grab Bars

11B-609.1 General. Grab bars in toilet facilities and bathing facilities shall comply with Section 11B-609.

11B-609.2 Cross Section. Grab bars shall have a cross section complying with Section 11B-609.2.1 or 11B-609.2.2.

11B-609.2.1 Circular Cross Section. Grab bars with circular cross sections shall have an outside diameter of 1 1/4 inches minimum and 2 inches maximum.

11B-609.2.2 Non-Circular Cross Section. Grab bars with non-circular cross sections shall have a cross-section dimension of 2 inches maximum and a perimeter dimension of 4 inches minimum and 4.8 inches maximum.

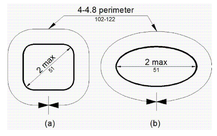

Figure 11B-609.2.2 Grab Bar Non-Circular Cross Section

11B-609.3 Spacing. The space between the wall and the grab bar shall be 1 1/2 inches. The space between the grab bar and projecting objects below and at the ends shall be 1 1/2 inches minimum. The space between the grab bar and projecting objects above shall be 12 inches minimum.
Exceptions:
1. The space between the grab bars and shower controls, shower fittings, and other grab bars above shall be permitted to be 1 1/2 inches minimum.
2. For L-shaped or U-shaped grab bars complying with Section 11B-609.9 the space between the walls and the grab bar shall be 1 1/2 inches (minimum for a distance of 6 inches on either side of the inside corner between two adjacent wall surfaces.

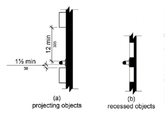

Figure 11B-609.3 Spacing of Grab Bars

11B-609.4 Position of Grab Bars. Grab bars shall be installed in a horizontal position, 33 inches minimum and 36 inches maximum above the finish floor measured to the top of the gripping surface. The height of the lower grab bar on the back wall of a bathtub shall comply with Section 11B-607.4.1.1 or 11B-607.4.2.1.

11B-609.5 Surface Hazards. Grab bars and any wall or other surfaces adjacent to grab bars shall be free of sharp or abrasive elements and shall have rounded edges.

11B-609.6 Fittings. Grab bars shall not rotate within their fittings.

11B-609.7 Installation. Grab bars shall be installed in any manner that provides a gripping surface at the specified locations and that does not obstruct the required clear floor space.

11B-609.8 Structural Strength. Allowable stresses shall not be exceeded for materials used when a vertical or horizontal force of 250 pounds is applied at any point on the grab bar, fastener, mounting device, or supporting structure.

11B-609.9 Alternate Configuration. L-shaped or U-shaped grab bars shall be permitted.

11B-610 Seats Not Applicable.

11B-611 Washing Machines & Clothes Dryers Not Applicable.

11B-612 Saunas Steam Rooms Not Applicable.

DIVISION 7: COMMUNICATION ELEMENTS & FEATURES

11B-701 General

11B-701.1 Scope. The provisions of Division 7 shall apply where required by Division 2 or where referenced by a requirement in this chapter.

11B-702 Fire Alarm Systems

11B-702.1 General. Fire alarm systems shall have permanently installed audible and visible alarms complying with NFPA 72 and Chapter 9, Sections 907.5.2.1 and 907.5.2.3.

11B-703 Signs

11B-703.1 General. Signs shall comply with Section 11B-703. Where both visual and tactile characters are required, either one sign with both visual and tactile characters, or two separate signs, one with visual, and one with tactile characters, shall be provided.

11B-703.1.1 Plan Review & Inspection. Signs as specified in Section 11B-703, or in other sections of this code, when included in the construction of new buildings or facilities, or when included, altered or replaced due to additions, alterations or renovations to existing buildings or facilities, and when a permit is required, shall comply with Sections 11B-703.1.1.1 and 11B-703.1.1.2.

11B-703.1.1.1 Plan Review. Plans, specifications or other information indicating compliance with these regulations shall be submitted to the enforcing agency for review and approval.

11B-703.1.1.2 Inspection. Signs and identification devices shall be field inspected after installation and approved by the enforcing agency prior to the issuance of a final certificate of occupancy per Chapter 1, Division II, Section 111, or final approval where no certificate of occupancy is issued. The inspection shall include, but not be limited to, verification that Braille dots and cells are properly spaced and the size, proportion and type of raised characters are in compliance with these regulations.

11B-703.2 Raised Characters. Raised characters shall comply with Section 11B-703.2 and shall be duplicated in Braille complying with Section 11B-703.3. Raised characters shall be installed in accordance with Section 11B-703.4.

11B-703.2.1 Depth. Raised characters shall be 1/32 inch minimum above their background.

11B-703.2.2 Case. Characters shall be uppercase.

11B-703.2.3 Style. Characters shall be sans serif. Characters shall not be italic, oblique, script, highly decorative, or of other unusual forms.

11B-703.2.4 Character Proportions. Characters shall be selected from fonts where the width of the uppercase letter "O" is 60 percent minimum and 110 percent maximum of the height of the uppercase letter "I".

11B-703.2.5 Character Height. Character height measured vertically from the baseline of the character shall be 5/8 inch minimum and 2 inches maximum based on the height of the uppercase letter "I".

Figure 11B-703.2.5 Height of Raised Characters

11B-703.2.6 Stroke Thickness. Stroke thickness of the uppercase letter "I" shall be 15 percent maximum of the height of the character.

11B-703.2.7 Character Spacing. Character spacing shall be measured between the two closest points of adjacent raised characters within a message, excluding word spaces. Where characters have rectangular cross sections, spacing between individual raised characters shall be 1/8 inch minimum and 4 times the raised character stroke width maximum. Where characters have other cross sections, spacing between individual raised characters shall be 1/16 inch minimum and 4 times the raised character stroke width maximum at the base of the cross sections, and 1/8 inch minimum and 4 times the raised character stroke width maximum at the top of the cross sections. Characters shall be separated from raised borders and decorative elements 3/8 inch minimum.

11B-703.2.8 Line Spacing. Spacing between the baselines of separate lines of raised characters within a message shall be 135 percent minimum and 170 percent maximum of the raised character height.

11B-703.2.9 Format. Text shall be in a horizontal format.

11B-703.3 Braille. Braille shall be contracted (Grade 2) and shall comply with Sections 11B-703.3 and 11B-703.4.

11B-703.3.1 Dimensions & Capitalization. Braille dots shall have a domed or rounded shape and shall comply with Table 11B-703.3.1. The indication of an uppercase letter or letters shall only be used before the first word of sentences, proper nouns and names, individual letters of the alphabet, initials, and acronyms.

Table 11B-703.3.1 Braille Dimensions

Measurement Range	Minimum in Inches to Maximum in Inches
Dot base diameter	0.059 to 0.063
Distance between two dots in the same cell1	0.100
Distance between corresponding dots in adjacent cells Note 1	0.300
Dot height	0.025 to 0.037
Distance between corresponding dots from one cell directly below Note 1	0.395 to 0.400

Notes:
1. Measured center to center.

Figure 11B-703.3.1 Braille Measurement

11B-703.3.2 Position. Braille shall be positioned below the corresponding text in a horizontal format, flush left or centered. If text is multi-lined, Braille shall be placed below the entire text. Braille shall be separated 3/8 inch minimum and 1/2 inch maximum from any other tactile characters and 3/8 inch minimum from raised borders and decorative elements.
Exception: Braille provided on elevator car controls shall be separated 3/16 inch minimum and shall be located directly below the corresponding raised characters or symbols.

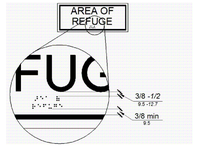

Figure 11B-703.3.2 Position of Braille

11B-703.4 Installation Height & Location. Signs with tactile characters shall comply with Section 11B-703.4.

11B-703.4.1 Height Above Finish Floor or Ground. Tactile characters on signs shall be located 48 inches minimum above the finish floor or ground surface, measured from the baseline of the lowest Braille cells and 60 inches maximum above the finish floor or ground surface, measured from the baseline of the highest line of raised characters.
Exception: Tactile characters for elevator car controls shall not be required to comply with Section 11B-703.4.1.

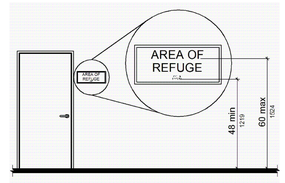

Figure 11B-703.4.1 Height of Tactile Characters Above Finish Floor or Ground

11B-703.4.2 Location. Where a tactile sign is provided at a door, the sign shall be located alongside the door at the latch side. Where a tactile sign is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a tactile sign is provided at double doors with two active leafs, the sign shall be located to the right of the right hand door. Where there is no wall space at the latch side of a single door or at the right side of double doors, signs shall be located on the nearest adjacent wall. Signs containing tactile characters shall be located so that a clear floor space of 18 inches minimum by 18 inches minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position. Where provided, signs identifying permanent rooms and spaces shall be located at the entrance to, and outside of the room or space. Where provided, signs identifying exits shall be located at the exit door when approached in the direction of egress travel.
Exception: In alterations where sign installation locations identified in Section 11B-703.4.2 are obstructed or otherwise unavailable for sign installation, signs with tactile characters shall be permitted on the push side of doors with closers and without hold-open devices.

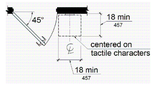

Figure 11B-703.4.2 Location of Tactile Signs at Doors

11B-703.5 Visual Characters. Visual characters shall comply with Section 11B-703.5.
Exception: Where visual characters comply with Section 11B-703.2 and are accompanied by Braille complying with Section 11B-703.3, they shall not be required to comply with Sections 11B-703.5.2 through 11B-703.5.6, 11B-703.5.8 and 11B-703.5.9.

11B-703.5.1 Finish & Contrast. Characters and their background shall have a non-glare finish. Characters shall contrast with their background with either light characters on a dark background or dark characters on a light background.

11B-703.5.2 Case. Characters shall be uppercase or lowercase or a combination of both.

11B-703.5.3 Style. Characters shall be conventional in form. Characters shall not be italic, oblique, script, highly decorative, or of other unusual forms.

11B-703.5.4 Character Proportions. Characters shall be selected from fonts where the width of the uppercase letter "O" is 60 percent minimum and 110 percent maximum of the height of the uppercase letter "I".

11B-703.5.5 Character Height. Minimum character height shall comply with Table 11B-703.5.5. Viewing distance shall be measured as the horizontal distance between the character and an obstruction preventing further approach towards the sign. Character height shall be based on the uppercase letter "I".
Exception: Where provided, floor plans providing emergency procedures information in accordance with Title 19 shall not be required to comply with Section 11B-703.5.5.

Table 11B-703.5.5 Visual Character Height

Height to Finish Floor or Ground From Baseline of Character	Horizontal Viewing Distance	Minimum Character Height
40 inches to less than or equal to 70 inches	less than 72 inches	5/8 inch
	72 inches and greater	5/8 inch, plus 1/8 inch per foot of viewing distance above 72 inches
Greater than 70 inches to less than or equal to 120 inches	less than 180 inches	2 inches
	180 inches and greater	2 inches, plus 1/8 inch per foot of viewing distance above 180 inches
greater than 120 inches	less than 21 feet	3 inches
	21 feet and greater	3 inches, plus 1/8 inch per foot of viewing distance above 21 feet

11B-703.5.6 Height from Finish Floor or Ground. Visual characters shall be 40 inches minimum above the finish floor or ground.
Exceptions:
1. Visual characters indicating elevator car controls shall not be required to comply with Section 11B-703.5.6.
2. Not Applicable.
3. Where provided, floor plans providing emergency procedures information in accordance with Title 19 shall not be required to comply with Section 11B-703.5.6.

11B-703.5.7 Stroke Thickness. Stroke thickness of the uppercase letter "I" shall be 10 percent minimum and 20 percent maximum of the height of the character.

11B-703.5.8 Character Spacing. Character spacing shall be measured between the two closest points of adjacent characters, excluding word spaces. Spacing between individual characters shall be 10 percent minimum and 35 percent maximum of character height.

11B-703.5.9 Line Spacing. Spacing between the baselines of separate lines of characters within a message shall be 135 percent minimum and 170 percent maximum of the character height.

11B-703.5.10 Format. Text shall be in a horizontal format.

11B-703.6 Pictograms. Pictograms shall comply with Section 11B-703.6.

11B-703.6.1 Pictogram Field. Pictograms shall have a field height of 6 inches minimum. Characters and Braille shall not be located in the pictogram field.

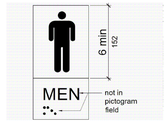

Figure 11B-703.6.1 Pictogram Field

11B-703.6.2 Finish & Contrast. Pictograms and their field shall have a non-glare finish. Pictograms shall contrast with their field with either a light pictogram on a dark field or a dark pictogram on a light field.

11B-703.6.3 Text Descriptors. Pictograms shall have text descriptors located directly below the pictogram field. Text descriptors shall comply with Sections 11B-703.2, 11B-703.3 and 11B-703.4.

11B-703.7 Symbols of Accessibility. Symbols of accessibility shall comply with Section 11B-703.7.

11B-703.7.1 Finish & Contrast. Symbols of accessibility and their background shall have a non-glare finish. Symbols of accessibility shall contrast with their background with either a light symbol on a dark background or a dark symbol on a light background.

11B-703.7.2 Symbols

11B-703.7.2.1 International Symbol of Accessibility. The International Symbol of Accessibility shall comply with Figure 11B-703.7.2.1. The symbol shall consist of a white figure on a blue background. The color blue shall approximate FS 15090 in Federal Standard 595C.

Exceptions:
1. The appropriate enforcement agency may approve other colors provided the symbol contrast is light on dark or dark on light.
2. On the accessibility function button on hall call consoles in a destination-oriented elevator system the International Symbol of Accessibility shall be a white symbol on a black background.

Figure 11B-703.7.2.1 International Symbol of Accessibility

11B-703.7.2.2 International Symbol of TTY. Not Applicable.

11B-703.7.2.3 Volume Control Telephones. Not Applicable.

11B-703.7.2.4 Assistive Listening Systems. Not Applicable.

11B-703.7.2.5 Not Applicable.

11B-703.7.2.6 Toilet Facilities Geometric Symbols. Geometric symbols at entrances to toilet rooms shall be mounted at 58 inches minimum and 60 inches maximum above the finish floor or ground surface measured from the centerline of the symbol. Where a door is provided the symbol shall be mounted within 1 inch of the vertical centerline of the door.

11B-703.7.2.6.1 Men's Toilet Facilities. An equilateral triangle, 1/4 inch thick with edges 12 inches long and a vertex pointing upward, shall be located at entrances to men's toilet facilities. The triangle symbol shall contrast with the door, either light on a dark background or dark on a light background.

11B-703.7.2.6.2 Women's Toilet Facilities. A circle, 1/4 inch thick and 12 inches in diameter, shall be located at entrances to women's toilet facilities. The circle symbol shall contrast with the door, either light on a dark background or dark on a light background.

11B-703.7.2.6.3 Unisex Toilet Facilities. A circle, 1/4 inch thick and 12 inches in diameter with a 1/4 inch (thick triangle with a vertex pointing upward, superimposed on and geometrically inscribed within the circle and within the 12 inch diameter, shall be provided at entrances to unisex toilet facilities. The vertices of the triangle shall be located 1/4 inch maximum from the edge of the circle. The triangle symbol shall contrast with the circle symbol, either light on a dark background or dark on a light background. The circle symbol shall contrast with the door, either light on a dark background or dark on a light background.

11B-703.7.2.6.4 Edges & Vertices on Geometric Symbols. Edges shall be eased or rounded at 1/16 inch minimum, or chamfered at 1/8 inch maximum. Vertices shall be radiused between 1/8 inch minimum and 1/4 inch maximum.

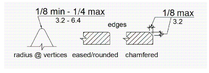

FIGURE 11B-703.7.2.6.4 Edges & Vertices on Geometric Symbols

11B-703.7.2.7 Pedestrian Traffic-Control Buttons. Pole-supported pedestrian traffic-control buttons shall be identified with color coding consisting of a textured horizontal yellow band 2 inches in width encircling the pole, and a 1-inch-wide dark border band above and below this yellow band. Color coding shall be placed immediately above the control button. Control buttons shall be located no higher than 48 inches above the ground surface adjacent to the pole.

11B-703.8 Variable Message Signs Not Applicable.

11B-704 Telephones Not Applicable.

11B-705 Detectable Warnings & Detectable Directional Texture

11B-705.1 Detectable Warnings

11B-705.1.1 General. Detectable warnings shall consist of a surface of truncated domes and shall comply with Section 11B-705.

11B-705.1.1.1 Dome size. Truncated domes in a detectable warning surface shall have a base diameter of 0.9 inch minimum and 0.92 inch maximum, a top diameter of 0.45 inch minimum and 0.47 inch maximum, and a height of 0.2 inch.

11B-705.1.1.2 Dome Spacing. Truncated domes in a detectable warning surface shall have a center-to-center spacing of 2.3 inches minimum and 2.4 inches maximum, and a base-to-base spacing of 0.65 inch minimum, measured between the most adjacent domes on a square grid.
Exception: Where installed in a radial pattern, truncated domes shall have a center-to-center spacing of 1.6 inches minimum to 2.4 inches maximum.

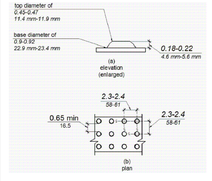

Figure 11B-705.1 Size and Spacing of Truncated Domes

11B-705.1.1.3 Color & Contrast. Detectable warning surfaces at transit boarding platform edges, bus stops, hazardous vehicular areas, reflecting pools, and track crossings shall comply with Section 11B-705.1.1.3.1. Detectable warnings at other locations shall comply with either Section 11B-705.1.1.3.1 or Section 11B-705.1.1.3.2. The material used to provide visual contrast shall be an integral part of the surface.

11B-705.1.1.3.1 Detectable warning surfaces shall be yellow and approximate FS 33538 of Federal Standard 595C.

11B-705.1.1.3.2 Detectable warning surfaces shall provide a 70 percent minimum visual contrast with adjacent walking surfaces. Contrast in percent shall be determined by:

Contrast percent = [(B1-B2)/B1] x 100 where
B1 = light reflectance value (LRV) of the lighter area and
B2 = light reflectance value (LRV) of the darker area.
Exception: Where the detectable warning surface does not provide a 70 percent minimum contrast with adjacent walking surfaces, a 1 inch wide minimum visually contrasting surface shall separate the detectable warning from adjacent walking surfaces. The visually contrasting surface shall contrast with both the detectable warning and adjacent walking surfaces either light-on-dark, or dark-on-light.

11B-705.1.1.4 Resiliency. Detectable warning surfaces shall differ from adjoining surfaces in resiliency or sound-on-cane contact.
Exception: Detectable warning surfaces at curb ramps, islands or cut-through medians shall not be required to comply with Section 11B-705.1.1.4.

11B-705.1.2 Locations. Detectable warnings at the following locations shall comply with Section 11B-705.1.

11B-705.1.2.1 Platform Edges. Not Applicable.

11B-705.1.2.2 Curb Ramps. Detectable warnings at curb ramps shall extend 36 inches in the direction of travel. Detectable warnings shall extend the full width of the ramp run less 2 inches maximum on each side, excluding any flared sides. Detectable warnings shall be located so the edge nearest the curb is 6 inches minimum and 8 inches maximum from the line at the face of the curb marking the transition between the curb and the gutter, street or highway.
Exception: On parallel curb ramps, detectable warnings shall be placed on the turning space at the flush transition between the street and sidewalk. Detectable warnings shall extend the full width of the turning space at the flush transition between the street and the sidewalk less 2 inches maximum on each side.

11B-705.1.2.3 Islands or Cut-Through Medians. Detectable warnings at pedestrian islands or cut-through medians shall be 36 inches minimum in depth extending the full width of the pedestrian path or cut-through less 2 inches maximum on each side, placed at the edges of the pedestrian island or cut-through median, and shall be separated by 24 inches minimum of walking surface without detectable warnings.
Exception: Detectable warnings shall be 24 inches minimum in depth at pedestrian islands or cut-through medians that are less than 96 inches in length in the direction of pedestrian travel.

11B-705.1.2.4 Bus stops. Not Applicable.

11B-705.1.2.5 Hazardous Vehicular Areas. Detectable warnings at hazardous vehicular areas shall be 36 inches in width.

11B-705.1.2.6 Reflecting Pools. When detectable warnings are provided at reflecting pools, it shall be 24 inches minimum and 36 inches maximum in width.

11B-705.1.2.7 Track Crossings. Not Applicable.

11B-705.2 Detectable Directional Texture. Not Applicable.
Figure 11B-705.1 Size and Spacing of Truncated Domes

11B-705.1.1.3 Color & Contrast. Detectable warning surfaces at transit boarding platform edges, bus stops, hazardous vehicular areas, reflecting pools, and track crossings shall comply with Section 11B-705.1.1.3.1. Detectable warnings at other locations shall comply with either Section 11B-705.1.1.3.1 or Section 11B-705.1.1.3.2. The material used to provide visual contrast shall be an integral part of the surface.

11B-705.1.1.3.1 Detectable warning surfaces shall be yellow and approximate FS 33538 of Federal Standard 595C.

11B-705.1.1.3.2 Detectable warning surfaces shall provide a 70 percent minimum visual contrast with adjacent walking surfaces. Contrast in percent shall be determined by:

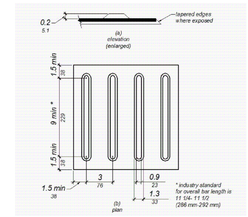

Figure 11B-705.2 Detectable Directional Texture

11B-705.3 Product Approval. Not Applicable.

11B-706 Assistive Listening Systems Not Applicable.

11B-707 Point-of-Sale Devices

11B-707.1 General. Point-of-sale devices shall comply with Section 11B-707.

11B-707.2 Clear Floor or Ground Space. A clear floor or ground space complying with Section 11B-305 shall be provided.
Exception: Clear floor or ground space shall not be required at drive-up only automatic teller machines and fare machines.

11B-707.3 Operable Parts. Operable parts shall comply with Section 11B-309. Unless a clear or correct key is provided, each operable part shall be able to be differentiated by sound or touch, without activation.
Exceptions:
1. Not Applicable.
2. Not Applicable.
3. Where point-of-sale devices do not require compliance with Section 11B-707.2, compliance with Sections 11B-309.2 and 11B-309.3 shall not be required.

11B-707.4 Privacy. Not Applicable.

11B-707.5 Speech Output. Not Applicable.

11B-707.6 Input. Not Applicable.

11B-707.7 Display Screen. Not Applicable.

11B-707.9 Point-of-Sale Devices. Point-of-sale devices shall comply with Section 11B-707.9.

11B-707.9.1 General. Point-of-sale systems that include a video touch screen or any other non-tactile keypad shall be equipped with either of the following:

11B-707.9.1.1 Tactilely Discernible Numerical Keypad. A tactilely discernible numerical keypad similar to a telephone keypad containing a raised dot with a dot base diameter between 1.5 mm and 1.6 mm and a height between 0.6 mm and 0.9 mm on the number 5 key that enables a visually impaired person to enter his or her own personal identification number or any other personal information necessary to process the transaction in a manner that provides the opportunity for the same degree of privacy input and output available to all individuals.

11B-707.9.1.2 Other Technology. Other technology, such as a radio frequency identification device, fingerprint biometrics, or some other mechanism that enables a visually impaired person to access the video touch screen device with his or her personal identifier and to process his or her transaction in a manner that provides the opportunity for the same degree of privacy input and output available to all individuals. Where a video screen overlay is provided it shall be equipped with a tactilely discernible numerical keypad complying with Section 11B-707.9.1.1.

11B-708 Two-way Communication Systems Not Applicable.

DIVISION 8: SPECIAL ROOMS, SPACES & ELEMENTS

11B-801 General

11B-801.1 Scope. The provisions of Division 8 shall apply where required by Division 2 or where referenced by a requirement in this chapter.

11B-802 Wheelchair Spaces

11B-802.1 Wheelchair Spaces. Wheelchair spaces shall comply with Section 11B-802.1.

11B-802.1.1 Floor or Ground Surface. The floor or ground surface of wheelchair spaces shall comply with Section 11B-302. Changes in level are not permitted.
Exception: Slopes not steeper than 1:48 shall be permitted.

11B-802.1.2 Width. A single wheelchair space shall be 36 inches wide minimum. Where two adjacent wheelchair spaces are provided, each wheelchair space shall be 33 inches wide minimum.

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REVISIONS

DATE	DESCRIPTION

Bid Issue Date:	TBD
Date:	10/23/24
Scale:	AS NOTED
Project No.	
Sheet Title:	ACCESSIBILITY NOTES
Sheet No.:	T1.6

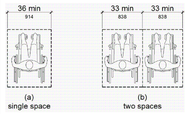

Figure 11B-802.1.2 Width of Wheelchair Spaces

11B-802.1.3 Depth. Where a wheelchair space can be entered from the front or rear, the wheelchair space shall be 48 inches deep minimum. Where a wheelchair space can be entered only from the side, the wheelchair space shall be 60 inches deep minimum.

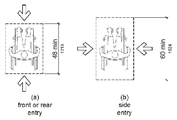

Figure 11B-802.1.3 Depth of Wheelchair Spaces

11B-802.1.4 Approach. Wheelchair spaces shall adjoin accessible routes. Accessible routes shall not overlap wheelchair spaces.

11B-802.1.5 Overlap. Wheelchair spaces shall not overlap circulation paths.

11B-802.2 Lines of Sight. Not Applicable.

11B-802.3 Companion Seats. Not Applicable.

11B-802.5 Semi-Ambulant Seats. Not Applicable.

11B-803 Employee Locker Rooms or Spaces

11B-803.1 General. Employee locker rooms or areas shall comply with Section 11B-803.

11B-803.2 Turning Space. Turning space complying with Section 11B-304 shall be provided within the room or space.

11B-803.3 Door Swing. Doors shall not swing into the room unless a turning space complying with Section 11B-304.3 is provided beyond the arc of the door swing.

11B-803.4 Benches. Not Applicable.

11B-803.5 Coat Hooks & Shelves. Not Applicable.

11B-803.6 Mirrors. Not Applicable.

11B-804 Kitchens, Kitchenettes & Wet Bars Not Applicable.

11B-805 Medical Care & Long-term Care Facilities Not Applicable.

11B-806 Transient Lodging Guest Rooms Not Applicable.

11B-807 Holding Cells & Housing Cells Not Applicable.

11B-808 Courtrooms Not Applicable.

11B-809 Residential Dwelling Units Not Applicable.

11B-810 Transportation Facilities Not Applicable

11B-811 Storage Not Applicable.

11B-812 Electric Vehicle Charging Stations

11B-812.1 General. Electric vehicle charging stations (EVCS) shall comply with Section 11B-812 as required by Section 11B-228.3. Where vehicle spaces and access aisles are marked with lines, measurements shall be made from the centerline of the markings.

Exception: Where vehicle spaces or access aisles are not adjacent to another vehicle space, access aisle, or parking space, measurements shall be permitted to include the full width of the line defining the vehicle space or access aisle.

11B-812.2 Operable Parts. Operable parts shall comply with Section 11B-309.

11B-812.3 Floor or Ground Surfaces. Vehicle spaces and access aisles serving them shall comply with Section 11B-302. Access aisles shall be at the same level as the vehicle space they serve. Changes in level, slopes exceeding 1:48, and detectable warnings shall not be permitted in vehicle spaces and access aisles.

11B-812.4 Vertical Clearance. Vehicle spaces, access aisles serving them, and vehicular routes serving them shall provide a vertical clearance of 98 inches minimum. Where provided, overhead cable management systems shall not obstruct required vertical clearance.

11B-812.5 Accessible Routes

11B-812.5.1 Accessible Route to Building or Facility. EVCS complying with Section 11B-812 that serve a particular building or facility shall be located on an accessible route to an entrance complying with Section 11B-206.4. Where EVCS do not serve a particular building or facility, EVCS complying with Section 11B-812 shall be located on an accessible route to an accessible pedestrian entrance of the EV charging facility.

Exception: EVCS complying with Section 11B-812 shall be permitted to be located in different EV charging facilities if substantially equivalent or greater accessibility is provided in terms of distance from an accessible entrance or entrances, charging fee, and user convenience.

11B-812.5.2 Accessible Route to EV Charger. An accessible route complying with Section 11B-402 shall be provided between the vehicle space and the EV charger which serves it.

11B-812.5.3 Relationship to Accessible Routes. Vehicle spaces and access aisles shall be designed so that when the vehicle space is occupied the required clear width of adjacent accessible routes is not obstructed. A curb, wheel stop, bollards, or other barrier shall be provided if required to prevent encroachment of vehicles over the required clear width of adjacent accessible routes.

11B-812.5.4 Arrangement. Vehicle spaces and access aisles shall be designed so that persons using them are not required to travel behind vehicle spaces or parking spaces other than the vehicle space in which their vehicle has been left to charge.

Exceptions:
1. Ambulatory EVCS shall not be required to comply with Section 11B-812.5.4.
2. Vehicle spaces installed in existing facilities shall comply with Section 11B-812.5.4 to the maximum extent feasible.

11B-812.5.5 Obstructions. EVCS shall be designed so accessible routes are not obstructed by cables or other elements.

11B-812.6 Vehicle spaces. Vehicle spaces serving van accessible, standard accessible, ambulatory and drive-up EVCS shall be 216 inches (5486 mm) long minimum and shall comply with Sections 11B-812.6.1 through 11B-812.6.4 as applicable. All vehicle spaces shall be marked to define their width.

Exceptions:
1. Where the long dimension of vehicle spaces is parallel to the traffic flow in the adjacent vehicular way, the length of vehicle spaces shall be 240 inches (minimum.
2. Vehicle spaces at drive-up EVCS shall be 240 inches long minimum and shall not be required to be marked to define their width.

11B-812.6.1 Van Accessible. Vehicle spaces serving van accessible EVCS shall be 144 inches wide minimum and shall have an adjacent access aisle complying with Section 11B-812.7.

11B-812.6.2 Standard Accessible. Vehicle spaces serving standard accessible EVCS shall be 108 inches wide minimum and shall have an adjacent access aisle complying with Section 11B-812.7.

11B-812.6.3 Ambulatory. Vehicle spaces serving ambulatory EVCS shall be 120 inches wide minimum and shall not be required to have an adjacent access aisle.

11B-812.6.4 Drive-Up. Not Applicable.

11B-812.7 Access Aisle. Access aisles shall adjoin an accessible route. Two vehicle spaces shall be permitted to share a common access aisle. Access aisles shall be 60 inches wide minimum and shall extend the full required length of the vehicle spaces they serve.

11B-812.7.1 Location. Access aisles at vehicle spaces shall not overlap the vehicular way and may be placed on either side of the vehicle space they serve except for van accessible spaces which shall have access aisles located on the passenger side of the vehicle spaces.

11B-812.7.2 Marking. Access aisles at vehicle spaces shall be marked with a painted borderline around their perimeter. The area within the borderlines shall be marked with hatched lines a maximum of 36 inches (914 mm) on center. The color of the borderlines, hatched lines, and letters shall contrast with that of the surface of the access aisle. The blue color required for identification of access aisles for accessible parking shall not be used. Access aisle markings may extend beyond the minimum required length.

11B-812.7.3 Lettering. The words "NO PARKING" shall be painted on the surface within each access aisle in letters a minimum of 12 inches in height and located to be visible from the adjacent vehicular way.

11B-812.8 Identification Signs. EVCS identification signs shall be provided in compliance with Section 11B-812.8.

11B-812.8.1 Four or Fewer. Where four or fewer total EVCS are provided, identification with an International Symbol of Accessibility (ISA) shall not be required.

11B-812.8.2 Five to Twenty-Five. Where five to twenty-five total EVCS are provided, one van accessible EVCS shall be identified by an ISA complying with Section 11B-703.7.2.1. The required standard accessible EVCS shall not be required to be identified with an ISA.

11B-812.8.3 Twenty-Six or More. Where twenty-six or more total EVCS are provided, all required van accessible and all required standard accessible EVCS shall be identified by an ISA complying with Section 11B-703.7.2.1.

11B-812.8.4 Ambulatory. Ambulatory EVCS shall not be required to be identified by an ISA.

11B-812.8.5 Drive-up. Not Applicable.

11B-812.8.6 Finish & Size. Identification signs shall be reflectorized with a minimum area of 70 square inches.

11B-812.8.7 Location. Required identification signs shall be visible from the EVCS it serves. Signs shall be permanently posted either immediately adjacent to the vehicle space or within the projected vehicle space width at the head end of the vehicle space. Signs identifying van accessible vehicle spaces shall contain the designation "van accessible." Signs shall be 60 inches minimum above the finish floor or ground surface measured to the bottom of the sign. Signs located within an accessible route shall be 80 inches minimum above the finish floor or ground surface measured to the bottom of the sign. Signs may also be permanently posted on a wall at the interior end of the vehicle space.

11B-812.9 Surface Marking. EVCS vehicle spaces shall provide surface marking stating "EV CHARGING ONLY" in letters 12 inches high minimum. The centerline of the text shall be a maximum of 6 inches from the centerline of the vehicle space and its lower corner at, or lower side aligned with, the end of the parking space length.

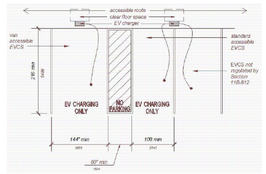

Figure 11B-812.9 Surface Marking

11B-812.10 Electric Vehicle Chargers

11B-812.10.1 General. EV chargers shall comply with Section 11B-812.10.

11B-812.10.2 Operable Parts. Operable parts and charging cord storage shall comply with Section 11B-309.

11B-812.10.3 Point-of-Sale Devices. Where provided, point-of-sale devices shall comply with Sections 11B-707.2, 11B-707.3, 11B-707.7.2, and 11B-707.9.

11B-812.10.4 Location. EV chargers shall be adjacent to, and within the projected width of the vehicle space being served.

Exceptions:
1. EV chargers serving more than one EVCS shall be adjacent to, and within the combined projected width of the vehicle spaces being served.
2. For alterations at existing facilities where an accessible route or general circulation path is not provided adjacent to the head end of the vehicle space or access aisle, the EV charger may be located within the projected width of the access aisle 36 inches maximum from the head end of the space.
3. Where the long dimension of a vehicle space is parallel to the vehicular way, the EV charger shall be adjacent to, and 48 inches maximum from the head end or foot end of the vehicle space or access aisle being served.

DIVISION 9: BUILT-IN ELEMENTS

11B-901 General

11B-901.1 Scope. The provisions of Division 9 shall apply where required by Division 2 or where referenced by a requirement in this chapter.

11B-902 Dining Surfaces & Work Surfaces

11B-902.1 General. Dining surfaces and work surfaces shall comply with Sections 11B-902.2 and 11B-902.3.

11B-902.2 Clear Floor or Ground Space. A clear floor space complying with Section 11B-305 positioned for a forward approach shall be provided. Knee and toe clearance complying with Section 11B-306 shall be provided.

11B-902.3 Height. The tops of dining surfaces and work surfaces shall be 28 inches minimum and 34 inches maximum above the finish floor or ground.

11B-902.4 Dining Surfaces & Work Surfaces for Childrens Use. Not Applicable.

11B-903 Benches

11B-903.1 General. Benches shall comply with Section 11B-903.

11B-903.2 Clear Floor or Ground Space. Clear floor or ground space complying with Section 11B-305 shall be provided and shall be positioned at the end of the bench seat and parallel to the short axis of the bench.

11B-903.3 Size. Benches shall have seats that are 48 inches long minimum and 20 inches deep minimum and 24 inches deep maximum.

11B-903.4 Back Support. The bench shall provide for back support or shall be affixed to a wall along its long dimension. Back support shall be 48 inches long minimum and shall extend from a point 2 inches maximum above the seat surface to a point 18 inches minimum above the seat surface. Back support shall be 2 1/2 inches maximum from the rear edge of the seat measured horizontally.

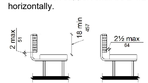

Figure 11B-903.4 Bench Back Support

11B-903.5 Height. The top of the bench seat surface shall be 17 inches minimum and 19 inches maximum above the finish floor or ground.

11B-903.6 Structural Strength. Benches shall be affixed to the wall or floor. Allowable stresses shall not be exceeded for materials used when a vertical or horizontal force of 250 pounds is applied at any point on the seat, fastener, mounting device, or supporting structure.

11B-903.7 Wet Locations. Where installed in wet locations, the surface of the seat shall be slip resistant and shall not accumulate water.

11B-904 Sales & Service Counters

11B-904.1 General. Sales and service counters shall comply with the applicable requirements of Section 11B-904.

11B-904.2 Approach. All portions of counters required to comply with Section 11B-904 shall be located adjacent to a walking surface complying with Section 11B-403.

11B-904.3 Check-Out Aisles. Not Applicable.

11B-904.4 Sales & Service Counters. Sales counters and service counters shall comply with Section 11B-904.4.1 or 11B-904.4.2. The accessible portion of the counter top shall extend the same depth as the sales or service counter top.

11B-904.4.1 Parallel Approach. A portion of the counter surface that is 36 inches long minimum and 34 inches high maximum above the finish floor shall be provided. A clear floor or ground space complying with Section 11B-305 shall be positioned for a parallel approach adjacent to the 36 inch minimum length of counter.

11B-904.4.2 Forward Approach. A portion of the counter surface that is 36 inches long minimum and 34 inches high maximum shall be provided. Knee and toe space complying with Section 11B-306 shall be provided under the counter. A clear floor or ground space complying with Section 11B-305 shall be positioned for a forward approach to the counter.

11B-904.5 Food Service Lines. Not Applicable.

11B-904.5.1 Self-Service Shelves & Dispensing Devices. Self-service shelves and dispensing devices for tableware, dishware, condiments, food and beverages shall comply with Section 11B-308.

11B-904.5.2 Tray Slides. Not Applicable.

11B-904.6 Security Glazing. Not Applicable.

DIVISION 10: RECREATION FACILITIES

11B-1001 General

11B-1001.1 Scope. The provisions of Division 10 shall apply where required by Division 2 or where referenced by a requirement in this chapter.

11B-1002 Amusement Rides Not Applicable.

11B-1003 Recreational Boating Facilities Not Applicable.

11B-1005 Fishing Piers & Platforms Not Applicable.

11B-1006 Golf Facilities Not Applicable.

11B-1007 Miniature Golf Facilities Not Applicable.

11B-1008 Play Areas Not Applicable.

11B-1009 Swimming Pools, Wading pools & spas Not Applicable.

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REVISIONS

DESCRIPTION	DATE

Bid Issue Date: TBD
Date: 10/23/24
Scale: AS NOTED
Project No.
Sheet Title:
ACCESSIBILITY NOTES
Sheet No.:
T1.7

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), including neighborhood electric vehicles (NEV), partial zero emission vehicle (PZEV), advanced technology PZEV (AT ZEV) or CNG fueled (original equipment manufacturer only) regulated under Health and Safety Code section 43800 and CCR, Title 13, Sections 1961 and 1962.
2. High-efficiency vehicles, regulated by U.S. EPA, bearing High-Occupancy Vehicle (HOV) car pool lane stickers issued by the Department of Motor Vehicles.

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.

5.106.5.2 DESIGNATED PARKING FOR CLEAN AIR VEHICLES. In new projects or additions or alterations that add 10 or more vehicular parking spaces, provide designated parking for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles as follows:

TABLE 5.106.5.2 - PARKING

TOTAL NUMBER OF PARKING SPACES	NUMBER OF REQUIRED SPACES
0-9	0
10-25	1
25-50	3
51-75	6
76-100	8
101-150	11
151-200	16
201 AND OVER	AT LEAST 8% OF TOTAL

5.106.5.2.1 - Parking stall marking. Paint, in the paint used for stall striping, the following characters such that the lower edge of the last word aligns with the end of the stall striping and is visible beneath a parked vehicle: CLEAN AIR / VAN POOL / EV

Note: Vehicles bearing Clean Air Vehicle stickers from expired HOV lane programs may be considered eligible for designated parking spaces.

5.106.5.3 Electric vehicle (EV) charging. [N] Construction shall comply with Section 5.106.5.3.1 or Section 5.106.5.3.2 to facilitate future installation of electric vehicle supply equipment (EVSE). When EVSE(s) is/are installed, it shall be in accordance with the *California Building Code,* the *California Electrical Code* and as follows:

5.106.5.3.1 Single charging space requirements. [N] When only a single charging space is required per Table 5.106.5.3.3, a raceway is required to be installed at the time of construction and shall be installed in accordance with the *California Electrical Code*. Construction plans and specifications shall include, but are not limited to, the following:

1. The type and location of the EVSE.
2. A listed raceway capable of accommodating a 208/240 -volt dedicated branch circuit.
3. The raceway shall not be less than trade size 1".
4. The raceway shall originate at a service panel or a subpanel serving the area, and shall terminate in close proximity to the proposed location of the charging equipment and listed suitable cabinet, box, enclosure or equivalent.
5. The service panel or subpanel shall have sufficient capacity to accommodate a minimum 40-ampere dedicated branch circuit for the future installation of the EVSE.

5.106.5.3.2 Multiple charging space requirements. [N] When multiple charging spaces are required per Table 5.106.5.3.3 raceway(s) is/are required to be installed at the time of construction and shall be installed in accordance with the *California Electrical Code*. Construction plans and specifications shall include, but are not limited to, the following:

1. The type and location of the EVSE.
2. The raceway(s) 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 charging equipment and into listed suitable cabinet(s), box(es), enclosure(s) or equivalent.
3. Plan design shall be based upon 40-ampere minimum branch circuits.
4. Electrical calculations shall substantiate the design of the electrical system, to include the rating of equipment and any on-site distribution transformers and have sufficient capacity to simultaneously charge all required EVs at its full rated amperage.
5. The service panel or subpanel(s) shall have sufficient capacity to accommodate the required number of dedicated branch circuit(s) for the future installation of the EVSE.

5.106.5.3.3 EV charging space calculations. [N] Table 5.106.5.3.3 shall be used to determine if single or multiple charging space requirements apply for the future installation of EVSE.

Exceptions: On a case-by-case basis where the local enforcing agency has determined EV charging and infrastructure is not feasible based upon one or more of the following conditions:

1. Where there is insufficient electrical supply.
2. 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.

TABLE 5.106.5.3.3

TOTAL NUMBER OF PARKING SPACES	NUMBER OF REQUIRED SPACES
0-9	0
10-25	1
26-50	2
51-75	4
76-100	5
101-150	7
151-200	10
201 AND OVER	6% of total[1]

1. Calculation for spaces shall be rounded up to the nearest whole number.

5.106.5.3.4 [N] Identification. The service panel or subpanel(s) circuit directory shall identify the reserved overcurrent protective device space(s) for future EV charging as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE".

5.106.5.3.5 [N] Future charging spaces qualify as designated parking as described in Section 5.106.5.2 Designated parking for clean air vehicles.

5.106.8 LIGHT POLLUTION REDUCTION. [N].I 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 Section 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.

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.

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 [4]	N/A	U0	U0	U0	U0
For all other outdoor lighting,including decorative luminaires	N/A	U1	U2	U3	UR
MAXIMUM ALLOWABLE GLARE RATING [5] (G)					
Luminaire greater than 2 MH from property line	N/A	G1	G2	G3	G4
Luminaire front hemisphere is 1-2 MH from property line	N/A	G0	G1	G1	G2
Luminaire front hemisphere is 0.5-1 MH from property line	N/A	G0	G0	G1	G1
Luminaire back hemisphere is less than 0.5 MH from property line	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. If the nearest property line is less than or equal to two mounting heights from the back hemisphere of the luminaire distribution, the applicable reduced Backlight rating shall be met.

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

5. If the nearest property line is less than or equal to two mounting heights from the front hemisphere of the luminaire distribution, the applicable reduced Glare rating shall be met.

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: The surface parking area covered by solar photovoltaic shade structures, or shade structures, with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5, are not included in the total area calculations.

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: Walks, hardscape areas covered by solar photovoltaic shade structures, and hardscape areas covered by shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5, are not included in the total area calculation.

DIVISION 5.2 ENERGY EFFICIENCY

SECTION 5.201 GENERAL

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

DIVISION 5.3 WATER EFFICIENCY AND CONSERVATION

SECTION 5.301 GENERAL

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

SECTION 5.302 DEFINITIONS

5.302.1 Definitions. The following terms are defined in Chapter 2 *(and are included here for reference)*

EVAPOTRANSPIRATION ADJUSTMENT FACTOR (ETAF) [DSA-SS]. An adjustment factor when applied to reference evapotranspiration that adjusts for plant factors and irrigation efficiency, which ae two major influences on the amount of water that needs to be applied to the landscape.

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

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

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

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

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). [HCD] The California model ordinance (California Code of Regulations, Title 23, Division 2, Chapter 2.7), regulating landscape design, installation and maintenance practices. Local agencies are required to adopt the updated MWELO, or adopt a local ordinance at least as effective as the MWELO.

POTABLE WATER. Water that is drinkable and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards. See definition in the California Plumbing Code, Part 5.

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

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

SUBMETER. A meter installed subordinate to a site meter. Usually used to measure water intended for one purpose, such as landscape irrigation. For the purposes of CALGreen, a dedicated meter may be considered a submeter.

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

SECTION 5.303 INDOOR WATER USE

5.303.1 METERS. Separate submeters or metering devices shall be installed for the uses described in Sections 503.1.1 and 503.1.2.

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

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

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

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

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

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

5.303.3.2 Urinals.
5.303.3.2.1 Wall-mounted Urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush.

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

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

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

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5.303.3.4 Faucets and fountains.

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

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

5.303.3.4.3 Wash fountains. Wash fountains shall have a maximum flow rate of not more than1.8 gallons per minute/20 [rim space (inches) at 60 psi].

5.303.3.4.4 Metering faucets. Metering faucets shall not deliver more than 0.20 gallons per cycle.

5.303.3.4.5 Metering faucets for wash fountains. Metering faucets for wash fountains shall have a maximum flow rate of not more than 0.20 gallons per minute/20 [rim space (inches) at 60 psi].

Note: Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.

5.303.4 COMMERCIAL KITCHEN EQUIPMENT.

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

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

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

SECTION 5.304 OUTDOOR WATER USE

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

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

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

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

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

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

DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

SECTION 5.401 GENERAL

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

SECTION 5.402 DEFINITIONS

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

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

BALANCE. To proportion flows within the distribution system, including sub-mains, branches and terminals, according to design quantities.

BUILDING COMMISSIONING. A systematic quality assurance process that spans the entire design and construction process, including verifying and documenting that building systems and components are planned, designed, installed, tested, operated and maintained to meet the owner's project requirements.

ORGANIC WASTE. Food waste, green waste, landscape and pruning wste, nonhazardous wood waste, and food soiled paper waste that is mixed in with food waste.

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

SECTION 5.407 WATER RESISTANCE AND MOISTURE MANAGEMENT

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

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

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

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

5.407.2.2.1 Exterior door protection. Primary exterior entries shall be covered to prevent water intrusion by using nonabsorbent floor and wall finishes within at least 2 feet around and perpendicular to such openings plus at least one of the following:

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

5.407.2.2.2 Flashing. Install flashings integrated with a drainage plane.

SECTION 5.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING

5.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 65% of the non-hazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent.

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

1. Identifies the construction and demolition waste materials to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale.
2. Determines if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream).
3. Identifies diversion facilities where construction and demolition waste material collected will be taken.
4. Specifies that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.

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

Note: The owner or contractor shall make the determination if the construction and demolition waste material will be diverted by a waste management company.

Exceptions to Sections 5.408.1.1 and 5.408.1.2:

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

5.408.1.3 Waste stream reduction alternative. The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 65% minimum requirement as approved by the enforcing agency.

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

Notes:

1. Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" located at www.bsc.ca.gov/Home/CALGreen.aspx may be used to assist in documenting compliance with the waste management plan.
2. Mixed construction and demolition debris processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).

5.408.2 UNIVERSAL WASTE. [A] Additions and alterations to a building or tenant space that meet the scoping provisions in Section 301.3 for nonresidential additions and alterations, shall require verification that Universal Waste 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. A list of prohibited Universal Waste materials shall be included in the construction documents.

Note: Refer to the Universal Waste Rule link at:
http://www.dtsc.ca.gov/LawsRegsPolicies/Regs/upload/OEAR-A_REGS_UWR_FinalText.pdf

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

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

Notes:

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

SECTION 5.410 BUILDING MAINTENANCE AND OPERATIONS

5.410.1 RECYCLING BY OCCUPANTS. Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive.

Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources Code 42649.82 (a)(2)(A) et seq. shall also be exempt from the organic waste portion of this section.

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

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

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

Note: A sample ordinance for use by local agencies may be found in Appendix A of the document at the CalRecycle's web site.

5.410.2 COMMISSIONING. [N] New buildings 10,000 square feet and over. For new buildings 10,000 square feet and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements. Commissioning shall be performed in accordance with this section by trained personnel with experience on projects of comparable size and complexity. For I-occupancies that are not regulated by OSHPD or for I-occupancies and L-occupancies that are not regulated y the California Energy Code Section 100.0 Scope, all requirements in Sections 5.410.2 through 5.410.2.6 shall apply.

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

Commissioning requirements shall include:

1. Owner's or Owner representative's project requirements.
2. Basis of design.
3. Commissioning measures shown in the construction documents.
4. Commissioning plan.
5. Functional performance testing.
6. Documentation and training.
7. Commissioning report.

Exceptions:

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

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

Informational Notes:

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

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

5.410.2.1 Owner's or Owner Representative's Project Requirements (OPR). [N] The expectations and requirements of the building appropriate to its phase shall be documented before the design phase of the project begins. This documentation shall include the following:
1. Environmental and sustainability goals.
2. Building sustainable goals.
3. Indoor environmental quality requirements.
4. Project program, including facility functions and hours of operation, and need for after hours operation.
5. Equipment and systems expectations.
6. Building occupant and operation and maintenance (O&M) personnel expectations.

5.410.2.2 Basis of Design (BOD). [N] A written explanation of how the design of the building systems meets the OPR shall be completed at the design phase of the building project. The Basis of Design document shall cover the following systems:

1. Renewable energy systems.
2. Landscape irrigation systems.
3. Water reuse system.

5.410.2.3 Commissioning plan. [N] Prior to permit issuance a commissioning plan shall be completed to document how the project will be commissioned. The commissioning plan shall include the following:
1. General project information.
2. Commissioning goals.
3. Systems to be commissioned. Plans to test systems and components shall include:
   a. An explanation of the original design intent.
   b. Equipment and systems to be tested, including the extent of tests.
   c. Functions to be tested.
   d. Conditions under which the test shall be performed.
   e. Measurable criteria for acceptable performance.
4. Commissioning team information.
5. Commissioning process activities, schedules and responsibilities. Plans for the completion of commissioning shall be included.

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

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

5.410.2.5.1 Systems manual. [N] Documentation of the operational aspects of the building shall be completed within the systems manual and delivered to the building owner or representative. The systems manual shall include the following:
1. Site information, including facility description, history and current requirements.
2. Site contact information.
3. Basic operations and maintenance, including general site operating procedures, basic troubleshooting, recommended maintenance requirements, site events log.
4. Major systems.
5. Site equipment inventory and maintenance notes.
6. A copy of verifications required by the enforcing agency or this code.
7. Other resources and documentation, if applicable.

5.410.2.5.2 Systems operations training. [N] A program for training of the appropriate maintenance staff for each equipment type and/or system shall be developed and documented in the commissioning report and shall include the following:
1. System/equipment overview (what it is, what it does and with what other systems and/or equipment it interfaces).
2. Review and demonstration of servicing/preventive maintenance.
3. Review of the information in the Systems Manual.
4. Review of the record drawings on the system/equipment.

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

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

5.410.4.2 (Reserved)

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

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

1. Renewable energy systems.
2. Landscape irrigation systems.
3. Water reuse systems.

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

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

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

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

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

DIVISION 5.5 ENVIRONMENTAL QUALITY

SECTION 5.501 GENERAL

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

SECTION 5.502 DEFINITIONS

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

ARTERIAL HIGHWAY. A general term denoting a highway primarily for through traffic usually on a continuous route.

A-WEIGHTED SOUND LEVEL (dBA). The sound pressure level in decibels as measured on a sound level meter using the internationally standardized A-weighting filter or as computed from sound spectral data to which A-weighting adjustments have been made.

1 BTU/HOUR. British thermal units per hour, also referred to as Btu. The amount of heat required to raise one pound of water one degree Fahrenheit per hour, a common measure of heat transfer rate. A ton of refrigeration is 12,000 Btu, the amount of heat required to melt a ton (2,000 pounds) of ice at 32^{0} Fahrenheit.

COMMUNITY NOISE EQUIVALENT LEVEL (CNEL). A metric similar to the day-night average sound level (Ldn), except that a 5 decibel adjustment is added to the equivalent continuous sound exposure level for evening hours (7pm to 10pm) in addition to the 10 dB nighttime adjustment used in the Ldn.

COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, timber, prefabricated wood I–joists or finger–jointed lumber, all as specified in California Code of Regulations (CCR), Title 17, Section 93120.1(a).

Note: See CCR, Title 17, Section 93120.1.

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

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

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

ELECTRIC VEHICLE CHARGING STATION(S) (EVCS)). One or more spaces intended for charging electric vehicles.

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.

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

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

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

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

GLOBAL WARMING POTENTIAL VALUE (GWP VALUE). A 100-year GWP value published by the Intergovernmental Panel on Climate Change (IPCC) in either its Second Assessment Report (SAR) (IPCC, 1995); or its Fourth Assessment A-3 Report (AR4) (IPCC, 2007). The SAR GWP values are found in column "SAR (100-yr)" of Table 2.14.; the AR4 GWP values are found in column "100 yr" of Table 2.14.

HIGH-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that is: (a) a chlorofluorocarbon, a hdrochlorofluorocarbon, a hydrofluorocarbon, a perfluorocarbon, or any compound or blend of compounds, with a GWP value equal to or greater than 150, or (B) any ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009).

LONG RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.5 times the pipe diameter.

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

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

MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a compound to the "Base REactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundreths of a gram (g O^{3}/g ROC).

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

PSIG. Pounds per square inch, guage.

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

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

SHORT RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.0 times the pipe diameter.

SUPERMARKET. For the purposes of Section 5.508.2, a supermarket is any retail food facility with 8,000 square feet or more conditioned area, and that utilizes either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units.

VOC. A volatile organic compound broadly defined as a chemical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a)

Note: Where specific regulations are cited from different agencies such as SCAQMD, ARB, etc., the VOC definition included in that specific regulation is the one that prevails for the specific measure in question.

SECTION 5.503 FIREPLACES

5.503.1 FIREPLACES. Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed woodstove or pellet stove, and refer to residential requirements in the California Energy Code, Title 24, Part 6, Subchapter 7, Section 150. Woodstoves, pellet stoves and fireplaces shall comply with applicable local ordinances.

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

SECTION 5.504 POLLUTANT CONTROL

5.504.1 TEMPORARY VENTILATION. The permanent HVAC system shall only be used during construction if necessary to condition the building or areas of addition or alteration within the required temperature range for material and equipment installation. If the HVAC system is used during construction, use return air filters with a Minimum Efficiency Reporting Value (MERV) of 8, based on ASHRAE 52.2-1999, or an average efficiency of 30% based on ASHRAE 52.1-1992 Replace all filters immediately prior to occupancy, or, if the building is occupied during alteration, at the conclusion of construction.

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

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5.504.4 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.6.

5.504.4.1 Adhesives, sealants and caulks. Adhesives, sealants, and caulks used on the project shall meet the requirements of the following standards:

1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for aerosol products as specified in subsection 2, below.

2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of *California Code of Regulations*, Title 17, commencing with Section 94507.

TABLE 5.504.4.1 - ADHESIVE VOC LIMIT[1,2]

Less Water and Less Exempt Compounds in Grams per Liter

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

1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.

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

TABLE 5.504.4.2 - SEALANT VOC LIMIT

Less Water and Less Exempt Compounds in Grams per Liter

SEALANTS	CURRENT VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	
ARCHITECTURAL	
NONPOROUS	250
POROUS	775
MODIFIED BITUMINOUS	500
MARINE DECK	760
OTHER	750

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

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

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

TABLE 5.504.4.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS[2,3]

GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT COMPOUNDS

COATING CATEGORY	CURRENT VOC LIMIT
FLAT COATINGS	50
NONFLAT COATINGS	100
NONFLAT HIGH GLOSS COATINGS	150
SPECIALTY COATINGS	
ALUMINUM ROOF COATINGS	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF PRIMERS	350
BOND BREAKERS	350
CONCRETE CURING COMPOUNDS	350
CONCRETE/MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
FAUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH-TEMPERATURE COATINGS	420
INDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS[1]	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, & UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLACS:	
CLEAR	730
OPAQUE	550
SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	100
STAINS	250
STONE CONSOLIDANTS	450
SWIMMING POOL COATINGS	340
TRAFFIC MARKING COATINGS	100
TUB & TILE REFINISH COATINGS	420
WATERPROOFING MEMBRANES	250
WOOD COATINGS	275
WOOD PRESERVATIVES	350
ZINC-RICH PRIMERS	340

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

2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.

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

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

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

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

1. Carpet and Rug Institute's Green Label Plus Program.
2. Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version 1.1, February 2010 (also known as CDPH Standard Method V1.1 or Specification 01350).
3. NSF/ANSI 140 at the Gold level or higher;
4. Scientific Certifications Systems Sustainable Choice; or
5. Compliant with the Collaborative for High Performance Schools California (2014 CA-CHPS) Criteria listed in the CHPS High Performance Product Database.

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

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

5.504.4.5 Composite wood products. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the buildings shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure (ATCM) for Composite Wood (17 CCR 93120 et seq.). Those materials not exempted under the ATCM must meet the specified emission limits, as shown in Table 5.504.4.5.

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

1. Product certifications and specifications.
2. Chain of custody certifications.
3. Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.).
4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269 or European 636 3S standards.
5. Other methods acceptable to the enforcing agency.

TABLE 5.504.4.5 - FORMALDEHYDE LIMITS[1]

MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION

PRODUCT	CURRENT LIMIT
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSITE CORE	0.05
PARTICLE BOARD	0.09
MEDIUM DENSITY FIBERBOARD	0.11
THIN MEDIUM DENSITY FIBERBOARD[2]	0.13

1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12.

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

5.504.4.6 Resilient flooring systems. For 80 percent of floor area receiving resilient flooring, installed resilient flooring shall meet at least one of the following:

1. Certified under the Resilient Floor Covering Institute (RFCI) FloorScore program;
2. Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health's 2010 Standard Method for the Testing and Evaluation Chambers, Version 1.1, February 2010;
3. Compliant with the Collaborative for High Performance Schools California (2014 CA-CHPS) Criteria and listed in the CHPS High Performance Product Database; or
4. Products certified under UL GREENGUARD Gold (formerly the Greenguard Children's & Schools Program).

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

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

Exceptions: Existing mechanical equipment.

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

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

SECTION 5.505 INDOOR MOISTURE CONTROL

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

SECTION 5.506 INDOOR AIR QUALITY

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

5.506.2 CARBON DIOXIDE (CO_2) MONITORING. For buildings or additions equipped with demand control ventilation, CO_2 sensors and ventilation controls shall be specified and installed in accordance with the requirements of the California Energy Code, Section 120(c)(4).

SECTION 5.507 ENVIRONMENTAL COMFORT

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

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

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

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

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

   Exceptions:

   1. L_{dn} or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICUZ) plan.
   2. L_{dn} or CNEL for other airports and heliports for which a land use plan has not been developed shall be determined by the local general plan noise element.

2. Within the 65 CNEL or L_{dn} noise contour of a freeway or expressway, railroad, industrial source or fixed-guideway source as determined by the Noise Element of the General Plan.

5.507.4.1.1. Noise exposure where noise contours are not readily available. Buildings exposed to a noise level of 65 dB L_{eq} - 1-hr during any hour of operation shall have building, addition or alteration exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30).

5.507.4.2 Performance Method. For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (Leq-1Hr) of 50 dBA in occupied areas during any hour of operation.

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

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

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

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

SECTION 5.508 OUTDOOR AIR QUALITY

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

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

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

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

Exception: Refrigeration systems containing low-global warming potential (low-GWP) refrigerant with a GWP value less than 150 are not subject to this section. Low-GWP refrigerants are nonozone-depleting refrigerants that include ammonia, carbon dioxide (CO_2), and potentially other refrigerants.

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

5.508.2.1.1 Threaded pipe. Threaded connections are permitted at the compressor rack.

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

5.508.2.1.2.1 Anchorage. One-fouth-inch OD tubing shall be securely clamped to a rigid base to keep vibration levels below 8 mils.

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

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

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

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

5.508.2.2.1 Pressure relief valves. For vessels containing high-GWP refrigerant, a rupture disc shall be installed between the outlet of the vessel and the inlet of the pressure relief valve.

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

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

5.508.2.2.2.1 Valve caps. For systems with a refrigerant charge of 5 pounds or more, valve caps shall be brass or steel and not plastic.

5.508.2.2.2.2 Seal caps. If designed for it, the cap shall have a neoprene O-ring in place.

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

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

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

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

5.508.2.4 Refrigerant receivers. Refrigerant receivers with capacities greater than 200 pounds shall be fitted with a device tha indicates the level of refrigerant in the receiver.

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

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

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

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

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

5.508.2.6.1 First vacuum. Pull a system vacuum down to at least 1000 microns (+/- 50 microns), and hold for 30 minutes.

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

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

CHAPTER 7
INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

702 QUALIFICATIONS

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

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

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

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

Notes:

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

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

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

703 VERIFICATIONS

703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist.

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REVISIONS

DATE	DESCRIPTION

Bid Issue Date: TBD
Date: 10/23/24
Scale: AS NOTED
Project No.
Sheet Title: CALGREEN NOTES
Sheet No.: T2.2

FINISH GENERAL NOTES

GENERAL

1. GENERAL CONTRACTOR TO SUBMIT TO TENANT AND DESIGNER FINISH SAMPLES, PRODUCT DATA SHEETS INCLUDING BUT NOT LIMITED TO: PREPARATION INSTRUCTIONS, AND RECOMMENDATIONS, STORAGE AND HANDLING REQUIREMENTS, INSTALLATION METHODS, MAINTENANCE REQUIREMENTS, FOR APPROVAL PRIOR TO INSTALLATION.
2. GENERAL CONTRACTOR TO VERIFY PATTERNS AND LAYOUT PRIOR TO INSTALLATION.
3. CONTRACTORS ARE TO PROTECT ALL PROPERTY AND THE WORK OF ALL OTHER TRADES AGAINST DAMAGE OR INJURY CASED BY THEIR ACTIVITY AND THE ACTIVITY OF THE SUBCONTRACTOR.
4. THE SUBCONTRACTORS ARE CONSIDERED TO BE EXPERTS IN THEIR RESPECTIVE FIELDS AND SHALL NOTIFY THE TENANT AND DESIGNER IMMEDIATELY OF ANY WORK DESIGNED BY THE DESIGNER WHICH CANNOT BE FULLY COMPLIED WITH OR GUARANTEED PRIOR TO THE INSTALLATION OF THE WORK.
5. ALL INTERIOR FINISHES/MATERIALS AND WORKMANSHIP, SHALL CONFORM TO TO MEET/COMPLY WITH REQUIREMENTS OUTLINED IN TABLE 803.9 AND SEC. 804 OF CH.8 CBC 2016 IN ADDITION TO THE REQUIREMENTS OF LOCAL CODES, LAWS, ORDINANCES IN EFFECT DURING THIS PROJECT.
6. NO EXCEPTIONS ON ALL PAINT AND FINISHES, ANY MODIFICATION TO BE SUBMITTED TO DESIGNER FOR REVIEW AND APPROVAL.

GYPSUM BOARD

1. INTERIOR GYPSUM BOARD SHALL COMPLY WITH ASTM C36/C 36M OR ASTM C 1396/C 1396M, IN THICKNESS INDICATED AND WITH MANUFACTURE'S STANDARD EDGES.
2. GLASS MAT WATER RESISTANT GYPSUM BACKING BOARD SHALL COMPLY WITH ASTM C 1178/C 1178 M, OF THICKNESS INDICATED. MATERIAL SHALL BE DENS SHIELD OR APPROVED EQUAL.
3. PROVIDE ALL TRIM ACCESSORIES SUCH AS CORNER BEAD, ETC. TRIM ACCESSORIES SHALL MEET ASTM C 1047, FORMED FROM GALVANIZED STEEL SHEET.
4. JOINT TREATMENT MATERIALS SHALL MEET ASTM C 475/C 475 M. JOINT TAPE SHALL BE PAPER. JOINT COMPOUND SHALL BE READY MIXED, ALL PURPOSE COMPOUNDS. THE FINAL COAT OF LEVEL 5 FINISH USE SETTING TYPE, SANDABLE TOPING COMPOUND DESIGNED FOR APPLICATION BY AIRLESS SPRAYER AND TO USE INSTEAD OF SKIM COAT TO PRODUCE A LEVEL 4 FINISH.
5. GYPSUM BOARD USED WITHIN THE PROJECT SPACES SHALL BE 5/8" TYPE 'X' FIRE SHIELD GYPSUM BOARD GOLD BOND AS MANUFACTURED BY NATIONAL GYPSUM COMPANY OR EQUAL.
6. ALL GYPSUM BOARD SHALL BE INSTALLED USING APPROPRIATE TYPE AND SIZE SCREW TO INSURE SOLID INSTALLATION.
7. ALL JOINT TAPE AND COMPOUNDS SHALL BE PROFORM BRAND AS MANUFACTURED BY NATIONAL GYPSUM COMPANY OR EQUAL.
8. INSTALL ALL GYPSUM BOARD PER THE MANUFACTURES SPECIFICATIONS.
9. ALL GYPSUM BOARD WALL AND CEILINGS SHALL RECEIVE A LEVEL 4 FINISH UNLESS NOTED OTHERWISE.
10. WHERE INDICATED ON THE INTERIOR DRAWINGS TO INSTALL WALL COVERING THE CONTRACTOR SHALL PREP WALL TO ACCEPT THE WALL COVERING. THIS MAY REQUIRE A SKIM COAT OVER THE WALL SURFACE AND IS CONSIDERED PART OF THE CONTRACTOR'S SCOPE OF WORK.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY NEW PATCH BACK AND TEXTURING OF THE GYPSUM BOARD OF THIS PROJECT SO THAT ALL WALLS AND CEILINGS ARE UNIFORM AND DONE IN A PROFESSIONAL MANNER. IF OTHER WORK OR TRADES REQUIRE DEMOLITION OR DAMAGE TO EXISTING GYPSUM BOARD THAT IS NOT SHOWN ON THESE DRAWINGS THE CONTRACTOR SHALL UNDERSTAND THE WORK REQUIRED BY THEIR SUB CONTRACTORS AND BE RESPONSIBLE FOR ALL PATCH BACK AND REPAIR OF THE GYPSUM BOARD AND TEXTURE.

STONE AND TILE

1. REFER TO FINISH SCHEDULE NOTES FOR ADDITIONAL INFORMATION.
2. SETTING AND GROUTING MATERIALS SHALL COMPLY WITH MATERIAL STANDARDS ANSI'S "SPECIFICATIONS FOR THE INSTALLATION OF CERAMIC TILE". THAT APPLY TO MATERIALS AND METHOD INDICATED.
3. GROUT SHALL BE PER THE INTERIOR SPECIFICATIONS.
4. ALL STONE AND TILE FLOORING TO BE SEALED SO THAT THE SURFACE MEETS THE MINIMUM INDUSTRY STANDARD FOR SLIP RESISTANCE. MATERIAL SHALL BE COLORLESS AND NOT AFFECT THE COLOR OR PHYSICAL PROPERTIES OF THE STONE OR TILE SURFACE.
5. COMPLY WITH TCAS "HANDBOOK FOR THE CERAMIC INSTALLATION" FOR TCA INSTALLATION METHODS SPECIFIED IN TILE INSTALLATION SCHEDULES. COMPLY WITH PARTS OF ANSI A108 SERIES "SPECIFICATIONS FOR INSTALLATION OF CERAMIC TILE" THAT ARE REFERENCED IN TCA INSTALLATION METHODS, SPECIFIED IN TILE INSTALLATION SCHEDULES, AND APPLY TO TYPES OF SETTING AND GROUTING MATERIALS USED.
6. FOR TILE FLOORS, FOLLOW PROCEDURES IN ANSI A108 FOR PROVIDING 95 PERCENT MORTOR COVERAGE.
7. PERFORM CUTTING AND DRILLING OF TILE WITHOUT MARRING VISIBLE SURFACES. CAREFULLY GRIND CUT EDGES OF TILE ABUTTING TRIM, FINISH, OR BUILT-IN ITEMS FOR STRAIGHT ALIGNED JOINTS, FIT CLOSELY TO ELECTRICAL OUTLETS, PIPING, FIXTURES, AND OTHER PENETRATIONS SO PLATES, COLLARS, OR COVERS OVERLAP TILE.
8. INSTALL WATERPROOFING TO COMPLY WITH ANSI A108.13.
9. DO NOT INSTALL TILE OVER WATERPROOFING UNTIL WATERPROOFING HAS CURED AND BEEN TESTED TO DETERMINE THAT IT IS WATERTIGHT.
10. ALL TILE SURFACES TO BE SET FLUSH UNLESS OTHERWISE NOTED.
11. SURFACE TO RECEIVE TILE SHALL BE DRY, CLEAN, FIRM, LEVEL AND PLUMB BEFORE WORK BEGINS.
12. USE FULL TILES THROUGHTOUT, CUTTING ONLY WHERE NECESSARY AND APPROVED BY ARCHITECT. ANY CUTTING AND DRILLING TO BE DONE WITHOUT MARRING FACE OF TILE.
13. AT COMPLETION OF WORK ALL TILE SHALL BE THOROUGHLY CLEANED, JOINTS REGROUTED WHERE REQUIRED AND ANY DEFECTIVE WORK REPLACED IN A MANNER SUITABLE TO ARCHITECT, AT NO ADDITIONAL COST TO THE OWNER.
14. LAY TILE IN GRID PATTERN UNLESS OTHERWISE INDICATED. ALIGN JOINTS WHERE ADJOINING TILES ON FLOOR, BASE, WALLS, AND TRIM ARE THE SAME SIZE.
15. INSTALL CEMENTITIOUS BACKER UNITS AND TREAT JOINTS ACCORDING TO ANSI A108.11.
16. WHERE INDICATED, PREPARE SUBSTRATES TO RECEIVE WATERPROOFING BY APPLYING A REINFORCED MORTAR BED THAT COMPLIES WITH ANSI A108.1A AND IS SLOPED 1/4 INCH PER FOOT TOWARD DRAINS.
17. INSTALL WATERPROOFING TO COMPLY WITH ANSI A108.13.
18. INSTALL STONE THRESHOLDS IN SAME TYPE OF SETTING BED AS ADJACENT FLOOR UNLESS OTHERWISE INDICATED. AT LOCATIONS WHERE MORTAR BED (THICKSET) WOULD OTHERWISE BE EXPOSED ABOVE ADJACENT FLOOR FINISHES, SET THRESHOLDS IN LATEX-PORTLAND CEMENT MORTAR (THIN SET).
19. APPLY SEALER TO CLEANED STONE TILE FLOORING ACCORDING TO SEALER MANUFACTURER'S WRITTEN INSTRUCTIONS.
20. MINIMIZE GROUT LINES. REFER TO FINISH SCHEDULE.
21. REFER TO DETAILS AND SPECS FOR HANGING AND SETTING DETAILS.
22. SUBMIT 12"X12" STONE OR TILE FINISH SAMPLES FOR APPROVAL.
23. PROVIDE DRY LAY-OUT FOR ALL STONE WALLS AND FLOORS. FOR REVIEW BY ARCHITECT AND OWNER.
24. TILE AND GROUT SHALL BE AS SPECIFIED, ANY CHANGES IN THE TILE TO BE SUBMITTED TO DESIGNER FOR APPROVAL.
25. ALL TILE SURFACES TO BE SET FLUSH UNLESS OTHERWISE NOTED.
26. DO NOT START WORK UNTIL ALL ELECTRICAL AND OR MECHANICAL WORK IN OR BEHIND TILE HAS BEEN INSTALLED.
27. ALL FLOORS TO BE EVEN AND LEVEL.
28. ALL CONTROL JOINT AND METAL JOINT LOCATIONS DIFFERING FROM THOSE SHOWN IN THE CONTRACT DOCUMENTS TO BE COORDINATED WITH DESIGN AND MUST BE APPROVED IN ADVANCE OF ORDER/INSTALLATION BY ARCHITECT.

MILLWORK

1. ALL DIMENSIONS AND CONDITIONS ON DRAWINGS TO BE VERIFIED IN RELATIONSHIP TO FINISHED CONSTRUCTION CONDITIONS BEFORE ANY WORK BEGINS.
2. MILLWORKER TO PREPARE A COMPLETE SET OF SHOP DRAWINGS FOR REVIEW AND APPROVAL BY THE DESIGNER FOR CONFORMANCE TO DESIGN INTENT.
3. MILLWORKER TO COORDINATE HIS WORK WITH THAT OF OTHER TRADES.
4. SUBMIT TO DESIGNER FOR APPROVAL 12" X12" MIN. SAMPLES OF ALL MATERIALS SPECIFIED IN THE PRECISE FINISH SPECIFIED. SMALLER SIZED SAMPLES MAY BE SUFFICIENT FOR CERTAIN MATERIALS AND THE DESIGNER WILL MAKE THIS DETERMINATION ON A CASE BY CASE BASIS. WOOD GRAINING AND NATURAL VARIATIONS MUST BE EVIDENT IN THE SAMPLES SUBMITTED FOR APPROVAL.
5. ALL MATERIALS SHALL BE FREE OF CHIPPING, ABRASIONS, DISTRESS, WARPING, CRACKING, FLAKING, SPLITTING, MOISTURE OR ANY MARRING THAT WOULD RESULT IN AN UNEVEN OR DAMAGED SURFACE.
6. ALL CABINETWORK SHALL BE SHOP FINISHED. ASSEMBLE CABINETWORK FINISHED IN AS LARGE UNITS AS POSSIBLE AT MILL, READY FOR ERECTION. WHERE NECESSARY TO FIT AT PROJECT, MAKE ADEQUATE ALLOWANCE FOR CUTTING AND FITTING.
7. AFTER COMPLETION OF ASSEMBLY AND FITTING, ALL FINISH NAIL HOLES, SCRATCHES AND OPEN JOINTS SHALL BE FILLED AND TOUCHED UP SO AS TO BE INVISIBLE.
8. ALL EXPOSED EDGES TO BE FINISHED, TYPICAL.
9. ALL FIXTURES FROM ALL TRADES AND THEIR RESPECTIVE REQUIREMENTS (WIRE CHASES, VENTILATION, DRAINAGE, ACCESS PANELS, ADJACENT FINISHES, ATTACHMENT BLOCKING, STRUCTURAL REINFORCEMENT, ETC.) MUST BE SHOWN TO SCALE AND BE FULLY COORDINATED IN THE SHOP DRAWINGS
10. ALL TRIMS, DRAWER FRONTS, COUNTER TOPS TO BE SOLID STOCK. NO EXPOSED PLYWOOD ENDS OR TAPE. ALL EXPOSED EDGES TO BE FINISHED WITH SOLID WOOD PROFILE, TYPICAL.
11. USE PREMIUM FURNITURE GRADE FINISH WOOD FOR BUILT-IN MILLWORK EXPOSED FACE/FRONT PANELS. USE PREMIUM GRADE FINISH LUMBER FREE OF KNOTS, DEFECTS, CRACKS ETC. FOR ALL MILLWORK FRAMES U.O.N.
12. ALL MILLWORK SUBJECT TO APPROVAL OF SHOP DRAWING AND FINISHED MATERIAL SAMPLES BY OWNER AND ARCHITECT.
13. G.C. TO PROVIDE IN-WALL BLOCKING AND ANY NECESSARY STRUCTURAL FRAMING FOR BUILT-IN MILLWORK.
14. ALL NEW MILLWORK TRIM PROFILES (BASE, DOOR FRAME, CASED OPENINGS, CROWN & CORNICE MOLDINGS, AND PICTURE RAILS) TO MATCH EXISTING U.O.N. ANY NEW MILLWORK TRIM DETAILS INCLUDED IN THE DRAWINGS SUPERSEDE EXISTING MOLDINGS AND TRIMS - FOLLOW DRAWING DETAILS AND SPECIFICATIONS AS REQUIRED.
15. FOREST CERTIFICATION: PROVIDE WOODWORK PRODUCED FROM WOOD OBTAINED FROM FORESTS CERTIFIED BY AN FSC ACCREDITED CERTIFICATION BODY TO COMPLY WITH FSC STD 01-001, "FSC PRINCIPLES AND CRITERIA FOR FOREST STEWARDSHIP.
16. DO NOT DELIVER OR INSTALL WOODWORK UNTIL BUILDING IS ENCLOSED, WET WORK IS COMPLETED, AND HVAC SYSTEM IS OPERATING.
17. BEFORE INSTALLATION, CONDITION WOODWORK TO AVERAGE PREVAILING HUMIDITY CONDITIONS IN INSTALLATION AREAS.
18. INSTALL WOODWORK TO COMPLY WITH REFERENCED QUALITY STANDARD FOR GRADE SPECIFIED.
19. INSTALL WOODWORK LEVEL, PLUMB, TRUE, AND STRAIGHT. SHIM AS REQUIRED WITH CONCEALED SHIMS. INSTALL LEVEL AND PLUMB (INCLUDING TOPS) TO A TOLERANCE OF.
20. SCRIBE AND CUT WOODWORK TO FIT ADJOINING WORK, REFINISH CUT SURFACES, AND REPAIR DAMAGED FINISH AT CUTS.
21. ANCHOR WOODWORK TO ANCHORS OR BLOCKING BUILT IN OR DIRECTLY ATTACHED TO SUBSTRATES. FASTEN WITH COUNTERSUNK CONCEALED FASTENERS AND BLIND NAILING. USE FINE FINISHING NAILS FOR EXPOSED NAILING, COUNTERSUNK AND FILLED FLUSH WITH WOODWORK.
22. STANDING AND RUNNING TRIM: INSTALL WITH MINIMUM NUMBER OF JOINTS POSSIBLE, USING FULL-LENGTH PIECES (FROM MAXIMUM LENGTH OF LUMBER AVAILABLE) TO GREATEST EXTENT POSSIBLE. DO NOT USE PIECES LESS THAN 36 INCHES LONG, EXCEPT WHERE SHORTER SINGLE-LENGTH PIECES ARE NECESSARY. SCARF RUNNING JOINTS AND STAGGER IN ADJACENT AND RELATED MEMBERS.

WOOD TRIM WORK

1. ALL NEW WOOD TRIM SHALL BE CAULKED IN A PROFESSIONAL MANNER TO THE ADJACENT SURFACE. CAULK COLOR TO MATCH ADJACENT MATERIAL COLOR. PROVIDE SAMPLE FOR APPROVAL.
2. ALL EXISTING AND NEW BASEBOARDS SHALL BE PREPPED AND PAINTED PER INTERIOR DRAWINGS. HOLES, CRACKS, AND ANY DEFORMITIES SHALL BE REPAIRED BEFORE PAINTING.
3. ALL EXISTING AND NEW DOOR JAMBS, CASINGS, AND CASED OPEINGS SHALL BE PREPPED AND PAINTED PER INTERIOR DRAWINGS. HOLES, CRACKS, AND ANY DEFORMITIES SHALL BE REPAIRED BEFORE PAINTING.

WALLCOVERING

1. REFER TO INTERIOR SPECIFICATIONS FOR ALL WALLCOVERINGS.
2. ADHESIVE TO BE MILDEW RESISTANT NON-STAINING ADHESIVE FOR USE WITH SPECIFIC WALL COVERING AND SUBSTRATE APPLICATION, AS RECOMMENDED IN WRITING BY THE WALLCOVERING MANUFACTURER, PROVIDE MILDEW RESISTANT PRIMER/SEALER RECOMMENDED IN WRITING BY WALL COVERING MANUFACTURER FOR INTENDED SUBSTRATE.
3. INSTALL SEAMS VERTICAL AND PLUMB, WITH NO HORIZONTAL SEAMS.
4. REMOVE EXCESS ADHESIVE AT FINISHED SEAMS, PERIMETER EDGES, AND ADJACENT SURFACES USING CLEANING METHODS RECOMMENDED BY THE WALL COVERING MANUFACTURER, REPLACE STRIPS THAT CANNOT BE CLEANED.

PAINTING

1. ALL PAINT COLORS SHALL BE PER THE INTERIOR SPECIFICATIONS.
2. PROVIDE DRAW DOWNS AND MOCK UP FOR REVIEW AND APPROVAL.
3. MANUFACTURE OF PAINT MATERIALS SHALL BE PER THE FINISH SCHEDULE.
4. ALL PAINT SHALL BE APPLIED PER THE MANUFACTURER'S INSTALLATIONS INSTRUCTIONS. EACH COAT SHALL BE THE MINIMUM THICKNESS PER THE MANUFACTURER'S RECOMMENDATIONS.
5. APPLY PAINTS TO PRODUCE SURFACE FILMS WITHOUT CLOUDINESS, SPOTTING, HOLIDAYS, LAPS, BRUSH MARKS, ROLLER TRACKING, RUNS, SAGS, ROPINESS, OR OTHER SURFACE IMPERFECTIONS. CUT IN SHARP LINES AND COLOR BREAKS.
6. ALL ITEMS SHOWN ON THE DRAWINGS TO BE PAINTED SHALL RECEIVE PROPER PREP AND PATCH TO RECEIVE NEW PRIMER AND PAINT. PREP SHALL INCLUDE THE FILLING OF ANY HOLES, CRACKS, OR OTHER IMPERFECTIONS SO THE SURFACE AREA BEING PAINTED IS CONSISTENT THROUGHOUT. DO NOT BEGIN PAINTING UNTIL SUBSTRATES HAVE BEEN PROPERLY PREPARED.
7. ALL AREAS TO BE PAINTED SHALL RECEIVE TWO COATS OVER ONE COAT PRIMER. COAT THICKNESS SHALL BE MINIMUM REQUIRED BY PAINT MANUFACTURER BEING USED. REGARDLESS OF NUMBER OF COATS SPECIFIED CONTRACTOR SHALL APPLY AS MANY COATS AS NECESSARY FOR COMPLETE HIDE, COAT THICKNESS, AND UNIFORM APPEARANCE. UNIFORMLY APPLY PAINT WITHOUT RUNS, DRIPS, OR SAGS, WITHOUT BRUSH MARKS, AND WITH CONSISTENT SHEEN. CONTRACTOR SHALL PROVIDE DRAW DOWNS AND CUT SHEETS OF PAINT MATERIALS BEING USED. REFER TO FINISH SCHEDULES FOR PAINT COLORS AND MANUFACTURER'S.
8. CONTRACTOR SHALL REMOVE ALL SPILLED, SPLASHED, SPLATTERED OR OVER SPRAYED PAINT AS WORK PROGRESSES, REMOVE WASTE MATERIALS PER LOCAL CODES.
9. PAINTING SHALL NOT BE DONE IN A MAINTAINED ENVIRONMENTAL CONDITION (TEMPERATURE, HUMIDITY, AND VENTILATION) WITHIN LIMITS RECOMMENDED BY MANUFACTURER FOR OPTIMUM RESULTS. DO NOT APPLY COATINGS UNDER ENVIRONMENTAL CONDITIONS OUTSIDE MANUFACTURER'S ABSOLUTE LIMITS.
10. PAINT SHALL BE FACTORY MIXED AND BE CATEGORIZED AS "BEST" BY THE MANUFACTURER FOR THE SUBSTRATE THE PAINT IS BEING APPLIED. USE PRIMERS AS CATEGORIZED AS "BEST" BY THE MANUFACTURER FOR THE SUBSTRATE THE PRIMER IS BEING APPLIED. DO NOT REDUCE, THIN, OR DILUTE COATINGS OR ADD MATERIALS TO COATING UNLESS SUCH PROCEDURE IS SPECIFICALLY DESCRIBED IN MANUFACTURER'S PRODUCT INSTRUCTIONS.
11. PROVIDE 3-COLOR TREATMENT AT EACH SURFACE, U.O.N.
12. SCRAPE, PATCH AND SAND SMOOTH ALL SURFACES TO BE REPAINTED.
13. PROVIDE TEMPORARY PAINT PROOF PROTECTION TO PREVENT THE SPREAD OF PAINT TO EXISTING LOCATIONS.
14. BEFORE PAINTING BEGINS, AREA IS TO BE FREE OF DEBRIS AND AIRBORNE POLLUTANTS WHICH WILL AFFECT FINISH.
15. NO MATERIALS OTHER THAN THOSE APPROVED OR SPECIFIED MAY BE DELIVERED TO OR ACCEPTED AT THE PROJECT SITE.
16. BEFORE BEGINNING ANY WORK, THE PAINTING SUBCONTRACTOR SHALL INSPECT ALL SURFACES TO BE PAINTED OR FINISHED. HE SHALL NOTIFY THE CONTRACTOR IN WRITING OF ANY UNSUITABLE CONDITIONS. NO PAINTING SHALL COMMENCE UNLESS THE SUBSURFACE IS IMMACULATELY PREPARED.
17. THE PRIME COAT ON ALL SURFACES TO APPROXIMATE THE COLOR OF THE FINISHED SURFACE.
18. ALL PAINTED SURFACES TO RECEIVE TWO (2) COATS OF FINISH PAINT MINIMUM.
19. FINISHED SURFACES TO BE PERFECTLY SMOOTH AND EVENLY FINISHED THROUGHOUT PROJECT.
20. AT COMPLETION OF WORK ANY DAMAGED SURFACES TO BE PATCHED WHERE REQUIRED AND REPAINTED.

RESINOUS FLOORING

1. PROVIDE PREPARATION OF SUBSTRATE AS RECOMMENDED BY THE RESINOUS FLOORING MANUFACTURER.
2. TEST HORIZONTAL SUBSTRATES TO DETERMINE ACCEPTABLE DRYNESS. TEST METHOD AS RECOMMENDED BY RESINOUS FLOORING MANUFACTURER.
3. PROVIDE AND INSTALL COVE BASE WITH TRIMS AND ACCESSORIES AS RECOMMENDED BY MANUFACTURER AND PER PLANS.
4. SUBMIT, FOR VERIFICATION PURPOSES, 3-5 INCH SQUARE SAMPLES OF EACH TYPE OF OF RESINOUS FLOORING REQUIRED, APPLIED TO RIGID BACKING, IN COLOR AND FINISH INDICATED.
5. SUBMIT MANUFACTURER'S WRITTEN INSTRUCTIONS FOR RECOMMENDED MAINTENANCE PRACTICES.
6. OBTAIN PRIMARY RESINOUS FLOORING MATERIALS INCLUDING PRIMERS, GROUTS, RESINS, HARDENING AGENTS, FINISH OR SEALING COATS FROM A SINGLE MANUFACTURER WITH NOT LESS THAN TEN YEARS OF SUCCESSFUL EXPERIENCE IN MANUFACTURING AND INSTALLING PRINCIPAL MATERIALS DESCRIBED IN THIS SECTION.
7. USE MATERIALS FOR WORK OF THIS SECTION WHICH COMPLY WITH VOLATILE ORGANIC COMPOUNDS LIMITATIONS AND OTHER REGULATIONS OF LOCAL AIR QUALITY MANAGEMENT DISTRICT AND OTHER LOCAL, STATE, AND FEDERAL AGENCIES HAVING JURISDICTION.
8. APPLY EACH COMPONENT OF RESINOUS FLOORING SYSTEM IN COMPLIANCE WITH MANUFACTURER'S WRITTEN DIRECTIONS TO PRODUCE A UNIFORM, MONOLITHIC WEARING SURFACE OF THICKNESS INDICATED, UNINTERRUPTED EXCEPT AT DIVIDER STRIPS, SAWN JOINT OR OTHER TYPES OF JOINTS (IF ANY), INDICATED OR REQUIRED.
9. JOB ARE TO BE FREE OF OTHER TRADES DURING, AND FOR A PERIOD OF AT LEAST 24 HOURS, AFTER FLOOR INSTALLATION.
10. PROTECTION OF FINISHED FLOOR FROM DAMAGE BY SUBSEQUENT TRADES SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
11. APPLY FINISH SEALER AT A RATE TO ACHIEVE A SURFACE FINISH THAT MATCHES SAMPLES SUBMITTED AND APPROVED.

CONCRETE STAIN

1. ALL MATERIALS USED AS THE STAINED CONCRETE FLOOR SYSTEM SHALL BE MANUFACTURED AND PROVIDED BY A SINGLE MANUFACTURER TO ENSURE COMPATIBILITY AND PROPER BONDING.
2. PREPARE SURFACES USING METHODS RECOMMENDED BY THE MANUFACTURER FOR ACHIEVING THE BEST RESULT FOR THE SUBSTRATE UNDER THE PROJECT CONDITIONS.
3. INSTALL COATINGS IN ACCORDANCE WITH MANUFACTURE'S WRITTEN INSTRUCTIONS.
4. UNIFORMLY APPLY COATINGS AT SPREAD RATES AND IN NUMBER OF COATS TO ACHIEVE SPECIFIED COVERAGE RATES RECOMMENDED BY THE MANUFACTURER.

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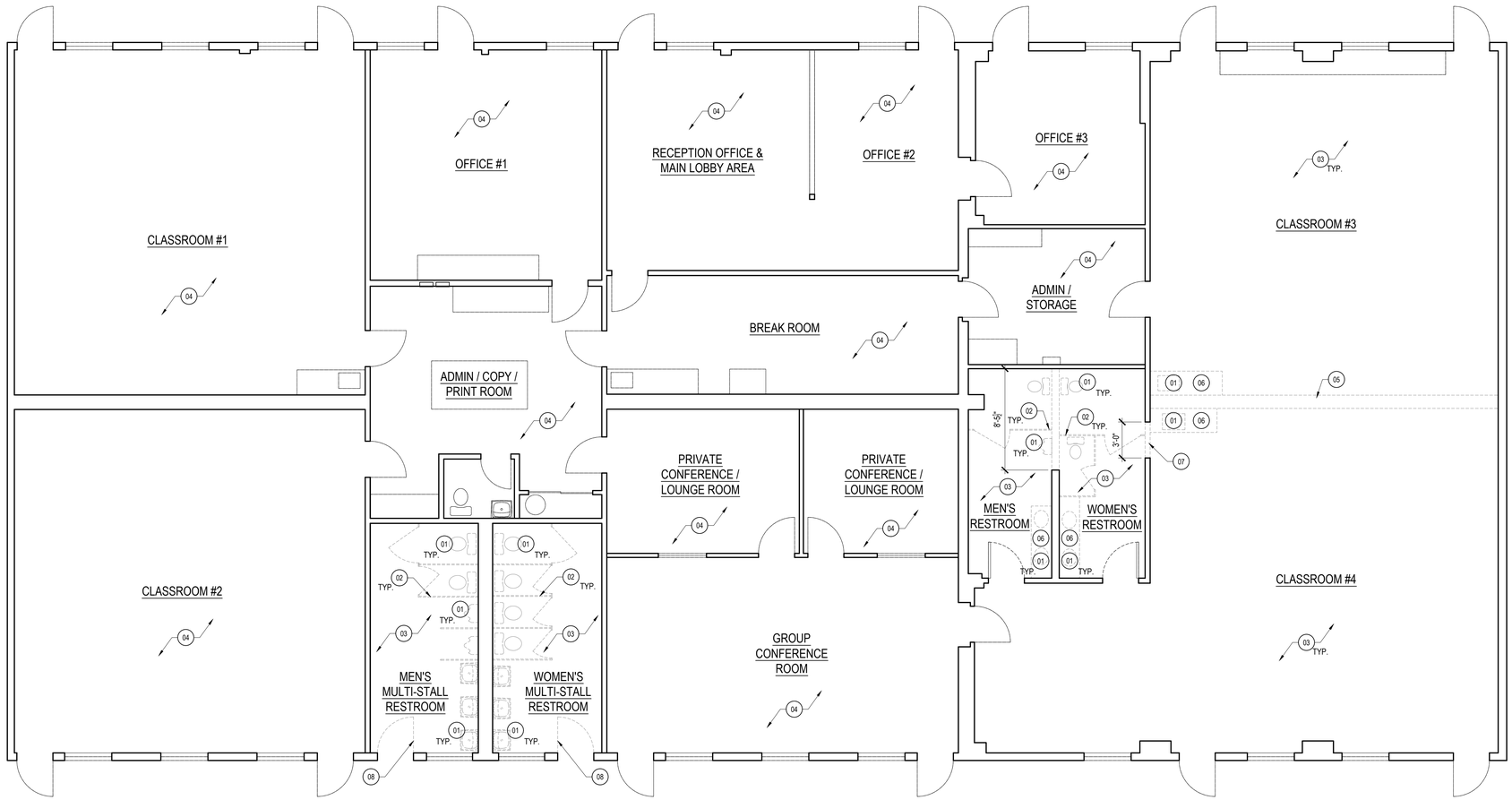

1 EXISTING / DEMO FLOOR PLAN
3/16" = 1'-0"

PLAN NORTH TRUE NORTH

DEMO FLOOR PLAN KEYNOTES

01 DEMO PLUMBING FIXTURES
02 DEMO RESTROOM PARTITIONS
03 DEMO FLOORING/FINISHES
04 EXISTING FLOORING TO REMAIN
05 DEMO PARTITION WALL
06 DEMO CABINETRY/COUNTERTOP
07 DEMO PARTIAL WALL FOR NEW DOOR OPENING
08 CHANGE DOOR SWING OF EXTERIOR DOOR

DEMO FLOOR PLAN LEGEND

EXISTING WALL TO REMAIN
EXISTING ITEM TO BE REMOVED

NOTE:
GC TO VERIFY IN FIELD ALL EXISTING CONDITIONS PRIOR TO DEMOLITION, FABRICATION AND INSTALLATION.

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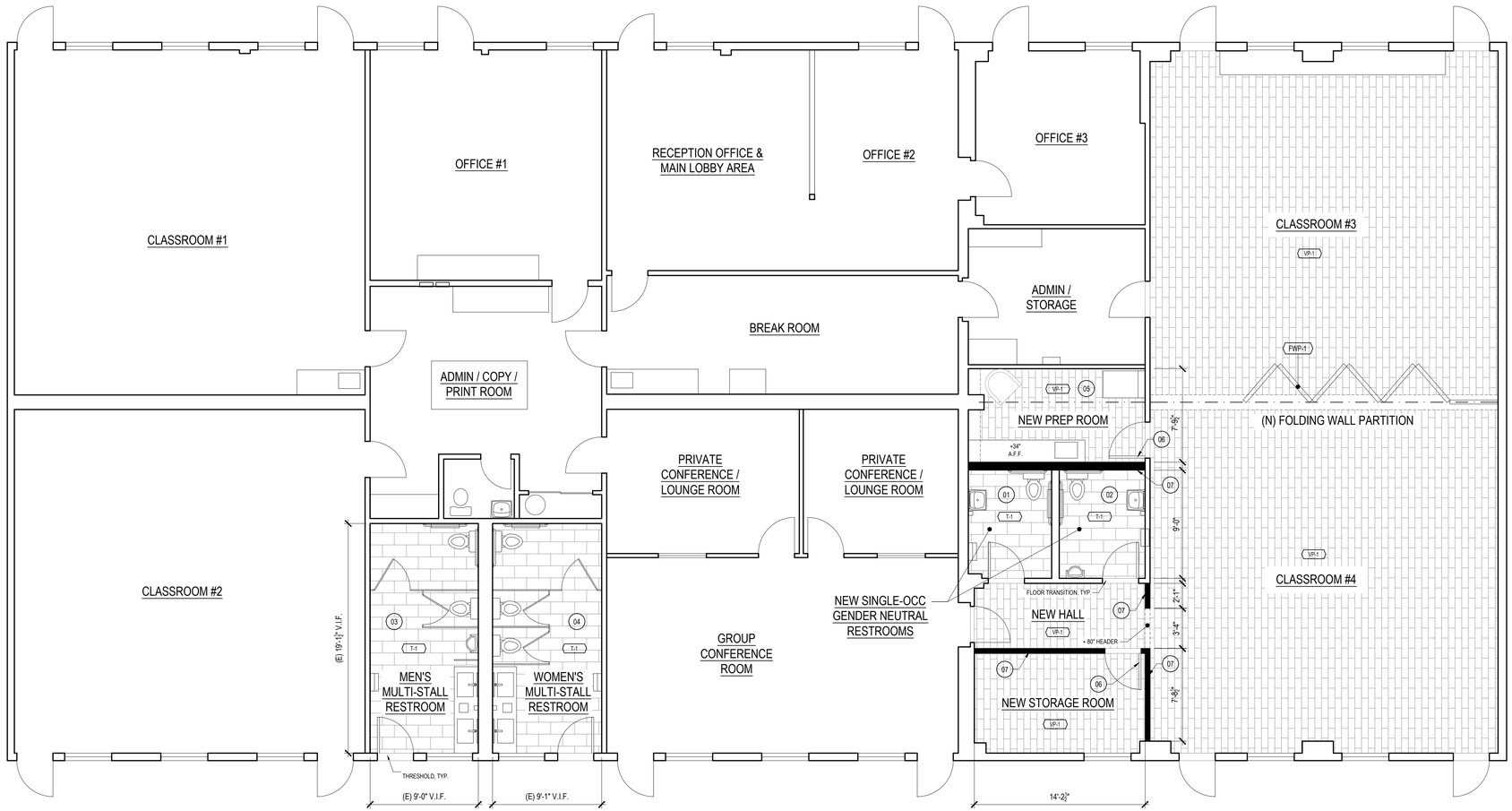

1 FINISH FLOOR PLAN
3/16" = 1'-0"

PLAN NORTH TRUE NORTH

FINISH PLAN GENERAL NOTES

1. THE CONTRACTOR SHALL PROTECT EXISTING MATERIALS & FINISHES (SHOWN TO REMAIN) FROM DAMAGE DURING CONSTRUCTION. PROVIDE PROTECTION AS REQUIRED AND AS DIRECTED BY DESIGNER. THE CONTRACTOR IS RESPONSIBLE FOR THE REPAIR/REPLACEMENT OF MATERIALS, FINISHES AND ELEMENTS DAMAGED DURING CONSTRUCTION.
2. PROTECT EXISTING CONCRETE WALKWAYS DURING CONSTRUCTION. CLEAN AND REPAIR EXISTING CONCRETE WALKS AND STEPS, TYPICAL.
3. WALLS AND PARTITIONS WITHIN 2 FEET OF SERVICE SINKS, URINALS AND WATER CLOSETS SHALL HAVE A SMOOTH, HARD, NONABSORBENT SURFACE, TO A HEIGHT OF NOT LESS THAN 4 FEET ABOVE THE FLOOR, AND EXCEPT FOR STRUCTURAL ELEMENTS, THE MATERIALS USED IN SUCH WALLS SHALL BE OF A TYPE THAT IS NOT ADVERSELY AFFECTED BY MOISTURE. [CBC 1209.2.2]
4. REFER TO SHEET ID0.0 FOR FINISH GENERAL NOTES.
5. ALL FINISH SUBSTITUTIONS SHALL BE APPROVED BY THE ARCHITECT/DESIGN TEAM WITH FINISH SAMPLES FOR APPROVAL.
6. EXISTING SURFACES SHALL BE PATCHED AND REPAIRED AS REQUIRED PRIOR TO RECEIVING NEW FINISHES.
7. ALL SURFACES SHALL BE PRIMED PRIOR TO PAINTING.

FINISH PLAN LEGEND

- NEW NON-BEARING INTERIOR WALL
- EXISTING WALL TO REMAIN
- POTENTIAL EXISTING BEAM - GC TO FIELD VERIFY

FLOOR PLAN KEYNOTES

01 NEW FINISHES AND PLUMBING FIXTURES, REFER TO A/ID2.0
02 NEW FINISHES AND PLUMBING FIXTURES, REFER TO B/ID2.0
03 NEW FINISHES AND PLUMBING FIXTURES, REFER TO C/ID2.1
04 NEW FINISHES AND PLUMBING FIXTURES, REFER TO D/ID2.1
05 NEW FINISHES AND PLUMBING FIXTURES, REFER TO A/ID1.1
06 NEW INTERIOR DOOR
07 NEW NON-LOAD BEARING WALL

NOTE:
GC TO VERIFY IN FIELD ALL EXISTING CONDITIONS PRIOR TO DEMOLITION, FABRICATION AND INSTALLATION.

FINISH SCHEDULE

REF TAG	REF PATTERN	LOCATION	MATERIAL	SIZE	COLOR/STYLE	VENDOR/ SUPPLIER	CONTACT	GROUT & GROUT SIZE	NOTES
T-1	INSTALL PATTERN	FLOOR TILE	MATTE PORCELAIN TILE	12" X 24"	BOND NIMBUS	TILEBAR	DANIELLE VOMBAUR (951) 642-3171	1/16" CUSTOM ROLLING FOG #544	
T-2	INSTALL PATTERN	WALL BASE	POLISHED PORCELAIN TILE	3" X 6"	PARK HILL LIGHT GRAY	TILEBAR	DANIELLE VOMBAUR (951) 642-3171	1/16" CUSTOM BRIGHT WHITE #381	
T-3	INSTALL PATTERN	WAINSCOTING	MATTE PORCELAIN TILE	12" X 24"	BOND INDIO BLUE	TILEBAR	DANIELLE VOMBAUR (951) 642-3171	1/16" CUSTOM DELOREAN GRAY #165	
VP-1	INSTALL PATTERN	FLOORING	VINYL PLANK	N/A	N/A	N/A	N/A	N/A	OWNER TO PROVIDE SPEC
FWP-1	INSTALL PATTERN	CLASSROOM PARTITION WALL	FOLDING WALL PARTITION	N/A	N/A	L2 SPECIALTIES, INC.	INFO@ L2SPECIALTIES .COM (714) 979-5507		GC TO COORDINATE WITH OWNER

REF TAG	REF PATTERN	LOCATION	MATERIAL	SIZE	COLOR/STYLE	VENDOR/ SUPPLIER	CONTACT	GROUT & GROUT SIZE	NOTES
CTP-1	INSTALL PATTERN	COUNTERTOP LAVATORIES	MATTE QUARTZ SLAB	132" X 65.5" 2CM THICKNESS	PORTRUSH MATTE	CAMBRIA	RENEE HAMPTON (714) 474-5699		
CTP-2	INSTALL PATTERN	COUNTERTOP PREP ROOM	LAMINATE	N/A	CALCUTTA MARBLE TEXTURED GLOSS FINISH	WILSONART	N/A		
P-1	INSTALL PATTERN	ALL WALLS, U.O.N.	PAINT	N/A	SW 70296 AGREEABLE GRAY	SHERWIN-WILLIAMS	JOHN DUMENSIL (619) 665-9341		SEMI-GLOSS FOR RESTROOMS SATIN FOR ALL OTHER WALLS
SCH-1	INSTALL PATTERN	WALL BASE COVE	METAL COVE-SHAPED TILE EDGING TRIM	TBD BY TILE INSTALLER	DILEX-AHK BRUSHED STAINLESS STEEL	SCHLUTER	KRYSTA WIEGERS (212) 246-4169 EXT. 528		
SCH-2	INSTALL PATTERN	WAINSCOTING TRANSITION	METAL FINISHING AND EDGE PROTECTION PROFILE	TBD BY TILE INSTALLER	QUADEC BRUSHED STAINLESS STEEL	SCHLUTER	KRYSTA WIEGERS (212) 246-4169 EXT. 528		

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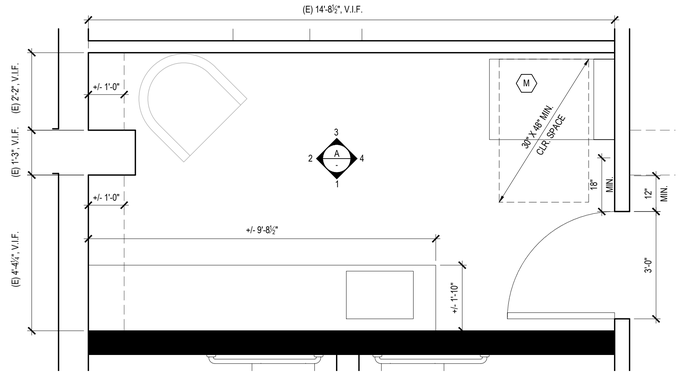
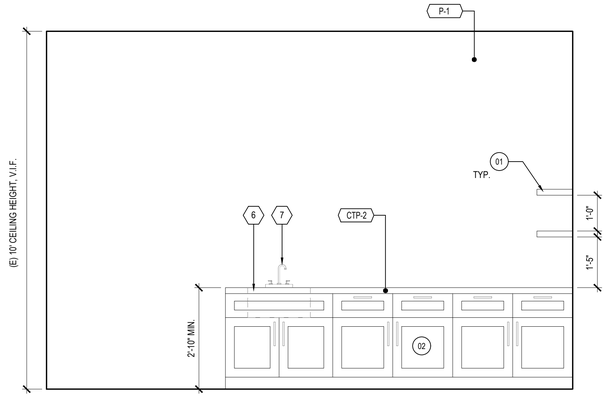


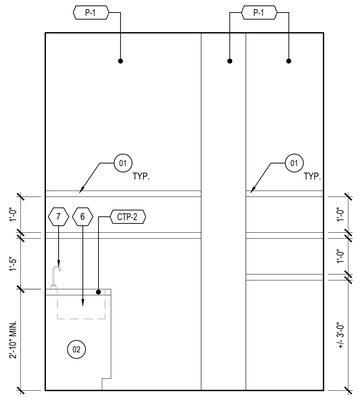
A / - PREP ROOM

SCALE: 1/2"=1'-0"



1 / A PREP ROOM ELEVATION

SCALE: 1/2"=1'-0"



2 / A PREP ROOM ELEVATION

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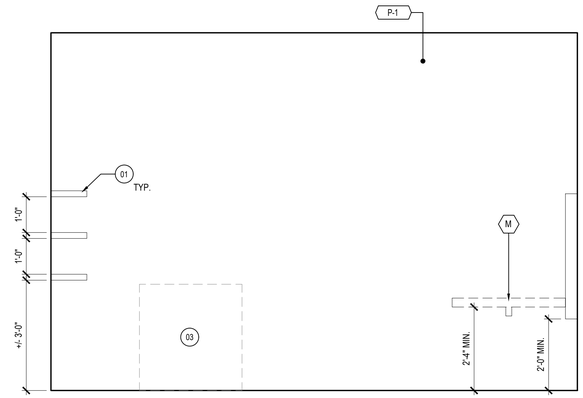
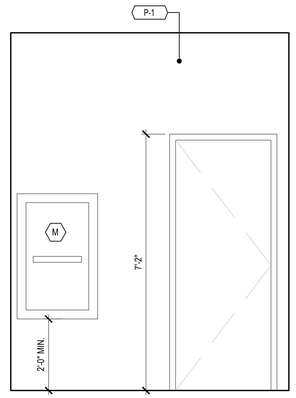


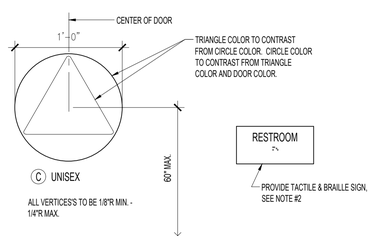
3 / A PREP ROOM ELEVATION

SCALE: 1/2"=1'-0"



4 / A PREP ROOM ELEVATION

SCALE: 1/2"=1'-0"



NOTES:

1. INTERNATIONAL SYMBOLS FOR UNISEX MINIMUM 1/4" THICKNESS CONTRASTING COLOR FROM DOOR.
2. PROVIDE RAISED LETTERS AND BRAILLE SIGNAGE ON WALL ADJACENT TO DOOR 60" MAX. TO BASELINE OF HIGHEST RAISED TEXT 48" MIN. TO BASELINE OF BRAILLE AND SUCH THAT A PERSON MAY APPROACH WITHIN 3" WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR DOOR SWING.
3. BRAILLE: GRADE II, DOTS - 1/10" O.C. IN EACH CELL WITH 2/10" SPACE BETWEEN CELLS, RAISED 1/40".
4. ALL SYMBOL EDGES TO BE EASED 1/16 R OR CHAMFERED 1/8"

B / - RESTROOM UNISEX SIGNAGE

SCALE: NTS

RESTROOM ACCESSORIES LEGEND

KEY	MODEL NUMBER		DESCRIPTION
A	B-3944	BOBRICK	RECESSED CONVERTIBLE PAPER TOWEL DISPENSER AND WASTE RECEPTACLE
B	B-3949	BOBRICK	SURFACE-MOUNTED CONVERTIBLE PAPER TOWEL DISPENSER AND WASTE RECEPTACLE
C	B-2012	BOBRICK	AUTOMATIC WALL-MOUNTED SOAP DISPENSER
D	B-167	BOBRICK	18"X44" GLASS MIRROR WITH STAINLESS STEEL ANGLE FRAME
E	B-167	BOBRICK	24"X48" GLASS MIRROR WITH STAINLESS STEEL ANGLE FRAME
F	B-30919	BOBRICK	SURFACE-MOUNTED TOILET SEAT-COVER DISPENSER, WASTE DISPOSAL, AND TOILET TISSUE DISPENSER
G	B-30929	BOBRICK	SURFACE-MOUNTED TOILET SEAT-COVER DISPENSER, WASTE DISPOSAL, AND TOILET TISSUE DISPENSER
H	B-76717	BOBRICK	SURFACE-MOUNTED ROBE HOOK
J	B-5806 X 36 B-5806 X 42	BOBRICK	STAINLESS STEEL GRAB BARS WITH SNAP FLANGE
K	S-25747	ULINE	GENDER NEUTRAL SIGNAGE, SEE DETAIL B/ID1.1
L		ONE PART PARTITIONS	POWDER COATED STEEL RESTROOM PARTITIONS
M	KB311-SSWM	KOALA	VERTICAL STAINLESS STEEL SURFACE-MOUNTED BABY CHANGING STATION

PLUMBING FIXTURE LEGEND

KEY	FIXTURE	MODEL NUMBER		DESCRIPTION
1	FLOOR MOUNTED WATER CLOSET	2857.128 5905.100	AMERICAN STANDARD	MADERA FLOWISE 16-1/2" HEIGHT 1.28 GPF FLUSHOMETER TOILET SYSTEM ELONGATED EXTRA HEAVY DUTY BOWL OPEN FRONT SEAT LESS COVER
2	WALL MOUNTED URINAL	6063.013.002	AMERICAN STANDARD	WASHBROOK FLOWISE UNIVERSAL URINAL WITH EVERCLEAN
3	WALL MOUNTED LAVATORY	23105500002	DURAVIT	D-CODE 21-5/8" SPECIALTY CERAMIC WALL MOUNTED BATHROOM SINK WITH OVERFLOW AND ONE FAUCET HOLE
4	UNDERMOUNTED LAVATORY	K-2215	KOHLER	LADENA 23-1/4" UNDERMOUNT BATHROOM SINK WITH OVERFLOW
5	DECK MOUNTED LAVATORY FAUCET	775B205.002	AMERICAN STANDARD	NEXTGEN SELECTRONIC 0.5 GPM SINGLE HOLE BATHROOM FAUCET WITH TEMPERATURE MIXING LEVER
6	UNDERMOUNTED LAVATORY	EFRU211510TC	ELKAY	CROSSTOWN 18 GAUGE STAINLESS STEEL 23-1/2" X 18-1/4" X 10" SINGLE BOWL UNDERMOUNT SINK KIT
7	DECK MOUNTED LAVATORY FAUCET	LK2477CR	ELKAY	EVERYDAY BAR DECK MOUNT FAUCET AND LEVER HANDLES CHROME

RESTROOM GENERAL NOTES

1. FLOOR AND WALL FINISH IN TOILET ROOMS SHALL BE SURFACED WITH A SMOOTH HARD NON-ABSORBENT MATERIAL EXTENDING A MINIMUM OF 4" UP THE WALL [CBC SEC. 1210.2]
2. WALLS WITHIN 2' OF FRONT OF URINALS AND WATER CLOSETS WILL BE SMOOTH AND OF A HARD NON-ABSORBENT SURFACE TO A HEIGHT OF 4'. [CBC SEC. 1210.2]
3. HAND OPERATED FLUSH CONTROL SHALL BE MOUNTED AT A MAXIMUM HEIGHT OF 44 INCHES ABOVE FINISH FLOOR. [CBC SEC. 11B-605.4]
4. FAUCET CONTROLS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. [CBC SEC. 11B-606.2]
5. WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIES AND SINKS SHALL BE INSULATED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES OR SINKS. [CBC SEC. 11B-606.5]

ELEVATION KEYNOTES

01 NEW OPEN SHELVING - GC TO FIELD VERIFY LENGTHS AND PROVIDE BACKINGS; COORDINATE WITH OWNER

02 NEW CABINET - HOME DEPOT IN-STOCK CABINET SIZES; GC TO COORDINATE WITH OWNER

03 NEW FURNITURE - BY OWNER

NOTE:
GC TO VERIFY IN FIELD ALL EXISTING CONDITIONS PRIOR TO DEMOLITION, FABRICATION AND INSTALLATION.

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Sheet Title:

PREP ROOM ELEVATIONS & SCHEDULES

Sheet No.:
ID1.1

NOTE:
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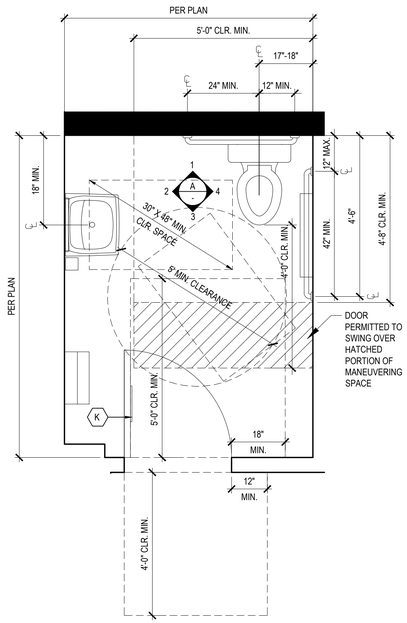
NOTE:
REQUIRED CLEARANCES SHOWN ARE FROM FACE OF FINISH TO FINISH.



A / - GENDER NEUTRAL RESTROOM
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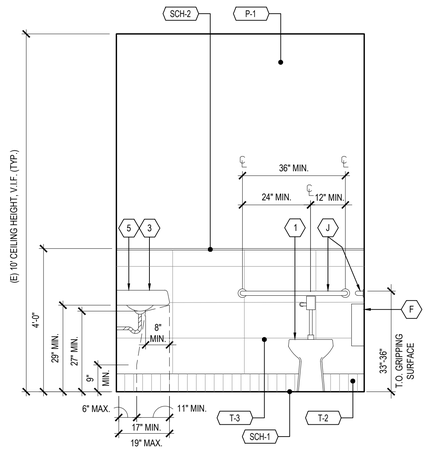

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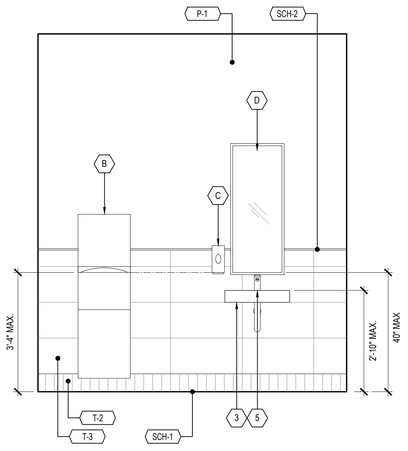

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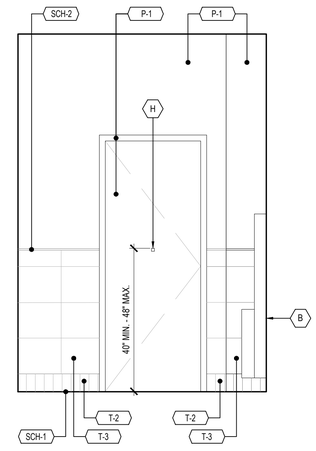

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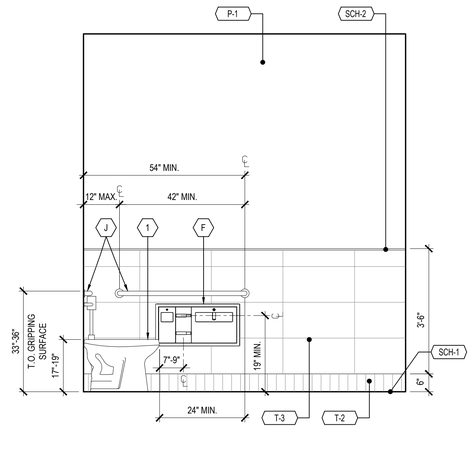

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B / - GENDER NEUTRAL RESTROOM
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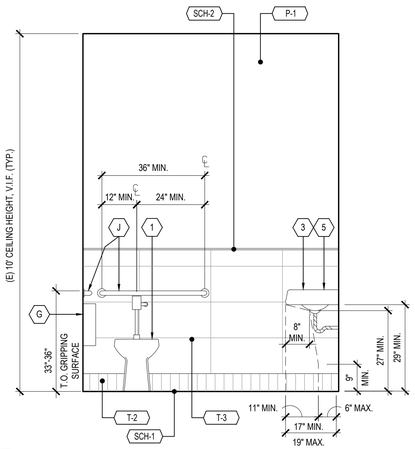

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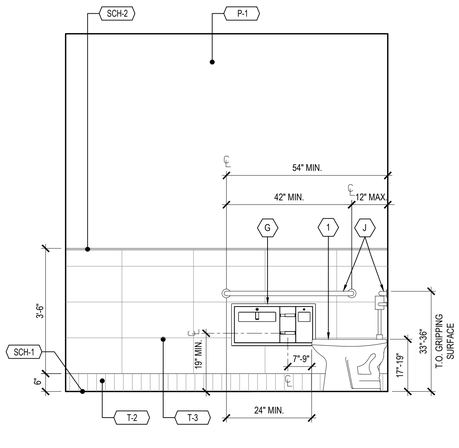

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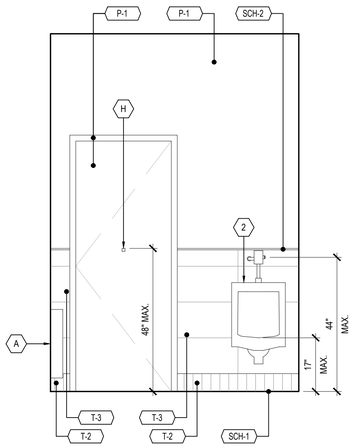

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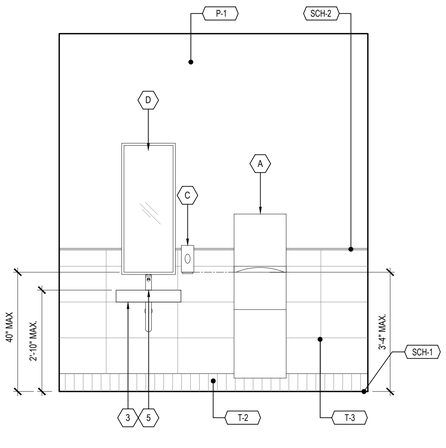

4 / B RESTROOM ELEVATION
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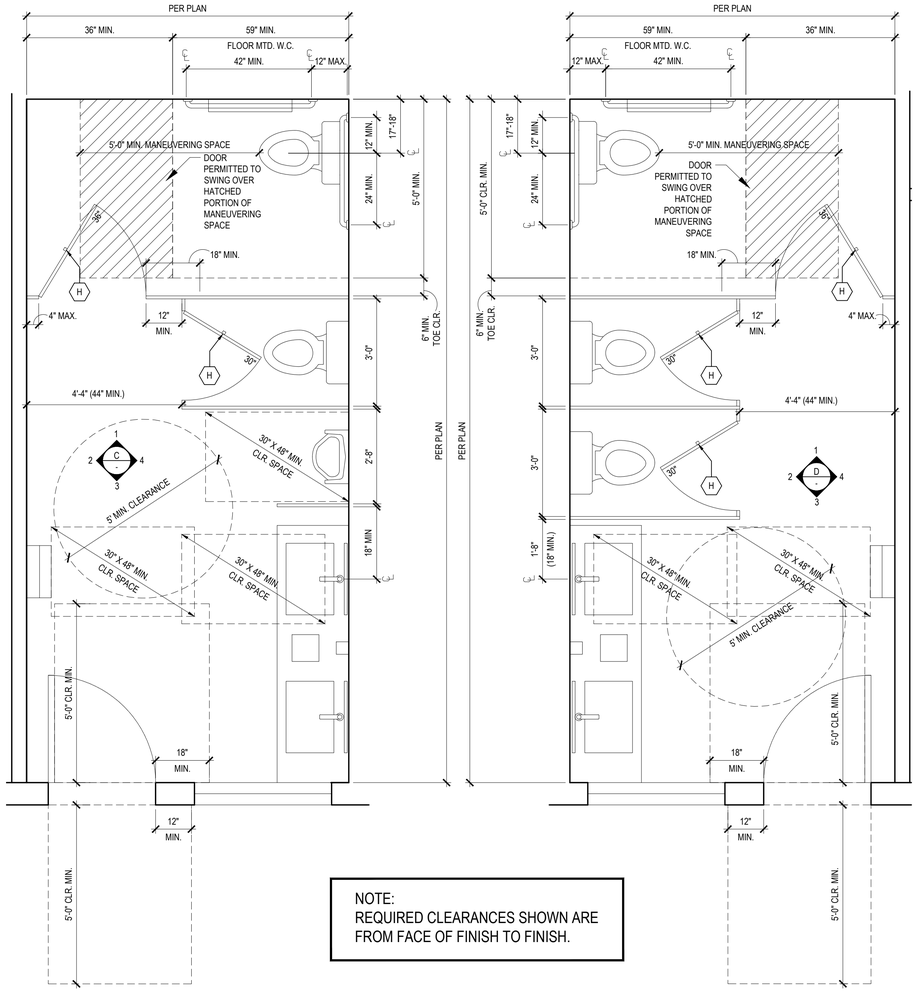

NOTE:
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C - MEN'S RESTROOM
SCALE: 1/2"=1'-0"

D - WOMEN'S RESTROOM
SCALE: 1/2"=1'-0"

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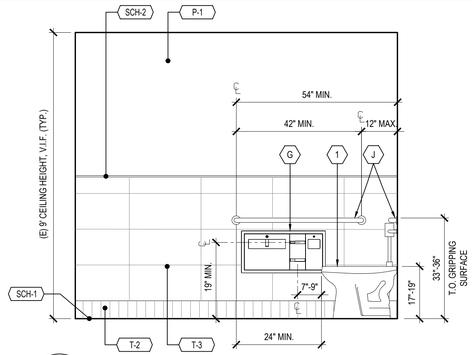

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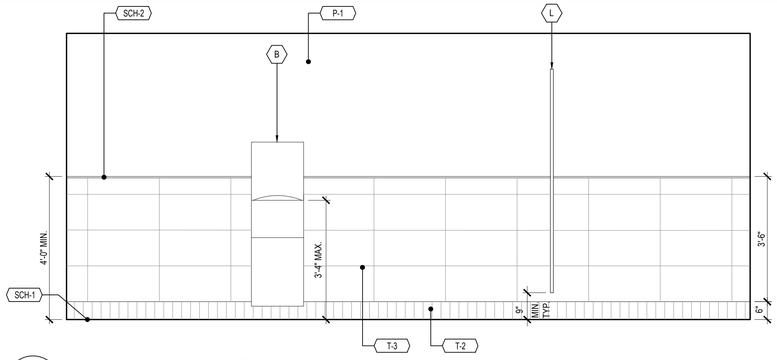

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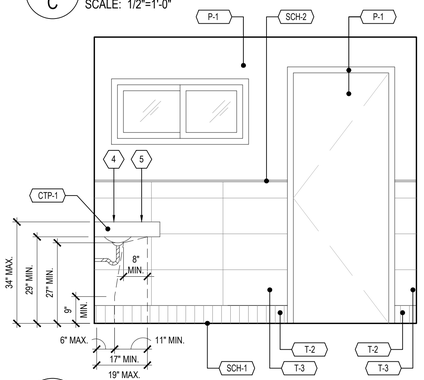

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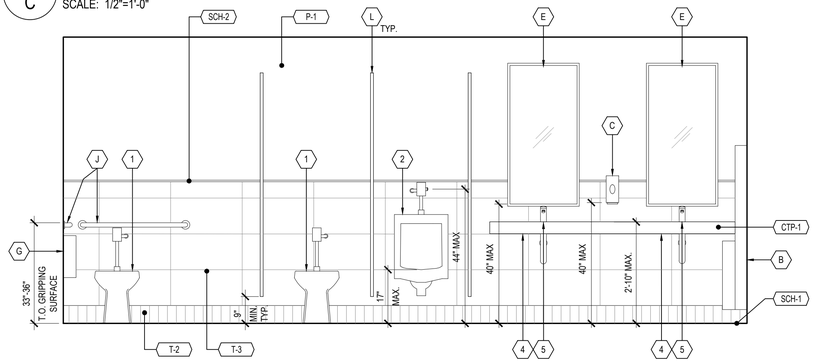

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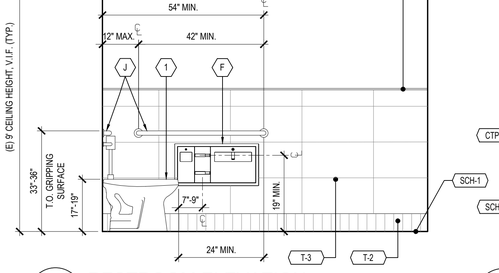

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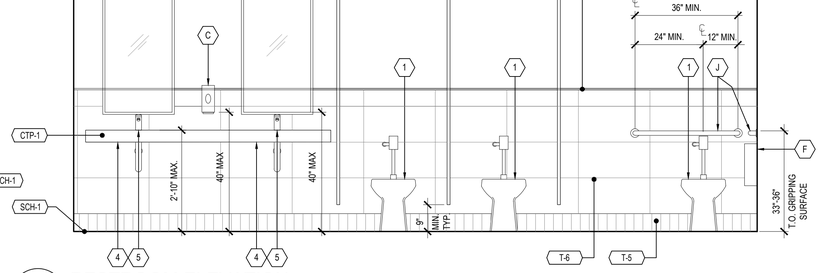

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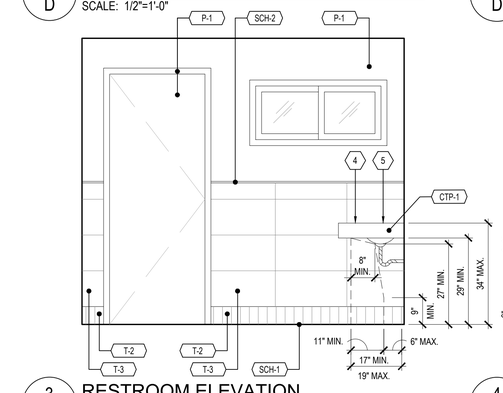

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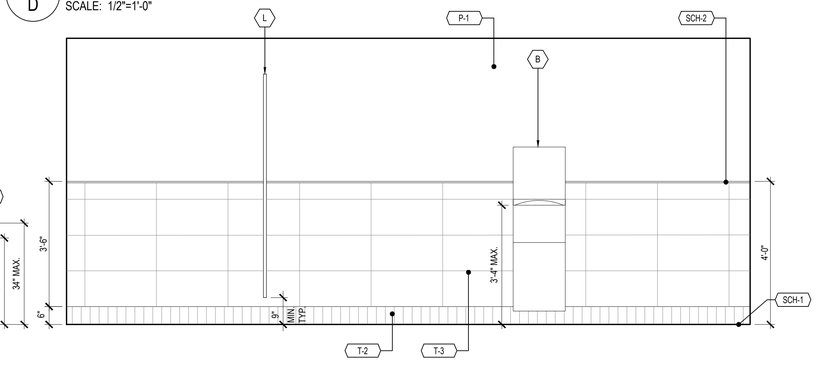

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