American Modular Systems

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#### COORDINATION OF WORK

THE CONTRACTOR IS RESPONSIBLE FOR MAKING ALL NECESSARY ARRANGEMENTS WITH THE SCHOOL DISTRICT AUTHORIZED REPRESENTATIVE FOR ACCESS TO GROUNDS AND REMOVAL OF EQUIPMENT, IF NECESSARY. THIS CONTACT SHALL BE MADE AT LEAST 48 HOURS PRIOR TO DELIVERY OF ANY MODULE. ON-SITE INSPECTION SHALL BE DONE BY THE SITE INSPECTOR. ALL WORK WHICH THE MANUFACTURER OR HIS SUBCONTRACTORS PERFORM AT THE SITE SHALL BE SUBJECT TO THE INSPECTION OF THE SITE INSPECTOR. THE MANUFACTURER WILL FURNISH THE SITE INSPECTOR WITH SUCH INFORMATION AS MAY BE NECESSARY TO KEEP HIM FULLY INFORMED AS TO PROGRESS OF WORK AND DATES WHEN SITE WORK WILL OCCUR. THE CONTRACTOR SHALL NOTIFY THE INSPECTION AGENCY AT LEAST 48 HOURS PRIOR TO COMMENCING

THE CONTRACTOR SHALL VERIFY THAT THE DISTRICT'S SITE IS READY TO RECEIVE THE CLASSROOM(S) PRIOR TO THE DELIVERY OF ANY CLASSROOM(S) BY VISITING EACH SITE (THIS MAY BE DONE BY THE INSPECTOR).

## MATERIALS AND WORKMANSHIP

- ALL CONTRACTORS SHALL CERTIFY THAT NO ASBESTOS-CONTAINING BUILDING MATERIALS WHICH EXCEED STATE AND FEDERAL MANDATED SAFE ASBESTOS LEVELS HAVE BEEN USED IN THE CONSTRUCTION OF RELOCATABLE FACILITIES.
- ALL WORKMEN SHALL BE SKILLED AND QUALIFIED FOR THE WORK WHICH THEY PERFORM. ALL MATERIALS USED, UNLESS OTHERWISE SPECIFIED, SHALL BE NEW AND OF THE TYPES AND GRADES SPECIFIED. THE CONTRACTOR SHALL, IF REQUESTED, FURNISH EVIDENCE SATISFACTORY TO THE RDPRC THAT SUCH IS THE CASE.
- CONTRACTOR'S CREWS ASSIGNED TO ANY WORK PERFORMED UNDER THIS CONTRACT SHALL INCLUDE ONE COMPETENT AND FULLY EXPERIENCED PERSON DESIGNATED AS THE RESPONSIBLE PERSON IN CHARGE. SUCH PERSON MUST BE IDENTIFIED BY NAME TO THE DISTRICT IN ADVANCE OF ANY WORK. UPON REQUEST, THE CONTRACTOR SHALL PROMPTLY FURNISH TO THE DISTRICT INFORMATION RELATING TO THIS EMPLOYEE'S EXPERIENCE
- WORKMANSHIP SHALL BE EQUAL OR BETTER IN QUALITY TO THAT REQUIRED BY THE CONSTRUCTION TRADES FOR A FINISHED PRODUCT. A QUALITY CONTROL SUPERVISOR, DESIGNATED BY THE MANUFACTURER, SHALL REVIEW ALL WORK IN PROGRESS AND SHALL REVIEW THE FINISHED BUILDING PRIOR TO FINAL INSPECTION TO ASSURE IT IS COMPLETE AND CORRECT. THE QUALITY CONTROL SUPERVISOR SHALL HAVE THE AUTHORITY TO HAVE MATERIALS REPLACED AND WORK REDONE IN ORDER TO CORRECT FAULTY MATERIALS OR WORKMANSHIP.

## **GENERAL DESIGN REQUIREMENTS**

- UP TO TEN (10) MODULES, APPROXIMATELY 12' x 40', DESIGNED SO THAT TWO (2) OR MORE MODULES MAY BE JOINED TOGETHER TO FORM A COMPLÈTE STRUCTURE. TO MAINTAIN A POSITIVE ALIGNMENT OF FLOORS, WALLS, AND ROOF, AND TO PERMIT SIMPLE NON-DESTRUCTIVE DETACHMENT FOR FUTURE RELOCATION.
- EACH MODULE SHALL BE PERMANENTLY IDENTIFIED WITH (2) IMPRINTED (STAMPED, NOT ENGRAVED) METAL IDENTIFICATION TAGS 3"x1-1/2" MINIMUM SIZE WITH THE FOLLOWING INFORMATION:
- A. MANUFACTURER'S NAME AND BUILDING SERIAL NUMBER.
- B. DESIGN WIND SPEED / EXPOSURE . DESIGN SEISMIC S<sub>DS</sub> VALUE
- ), DESIGN ROOF LIVE LOAD & SNOW LOAD. DESIGN FLOOR LIVE LOAD D.S.A. APPLICATION NUMBER
- 2-TAGS PER MODULE: ONE ON EXTERIOR, AND ONE ON MODULE BEAM AT FRONT OF BUILDING ABOVE CEILING.
- EACH MODULE SHALL BE CAPABLE OF RESISTING ALL VERTICAL AND LATERAL LOADS DURING TRANSPORTATION AND RELOCATION. (NORMAL INDUSTRY PRACTICE FOR BRACING MODULES DURING TRANSPORTATION AND RELOCATIONS IS ACCEPTABLE.) WHEN MODULES ARE ASSEMBLED JOINTS SHALL BE SEALED WITH REMOVABLE CLOSING STRIPS OR OTHER METHOD TO PRESENT A FINISHED APPEARANCE AND BE PERMANENTLY WATERPROOF
- EACH MODULE SHALL BE SUFFICIENTLY RIGID TO BE JACKED UP AT THE FRONT AND BACK CORNERS FOR RELOCATION WITHOUT DAMAGE OR THE MODULE SHALL HAVE LIFT LUGS AT FRONT AND BACK LOCATED AS REQUIRED SO THAT THE MODULE MAY BE JACKED UP FOR RELOCATION I ONE PIECE WITHOUT ADDITIONAL SUPPORTS OF ANY TYPE. EVIDENCE OF EXCESSIVE BOWING DURING THE INSTALLATION OF THE MODULES WHICH, I THE OPINION OF THE RDPRC, CAUSES EXCESSIVE WORKING AT ANY JOINT OR COMPROMISES THE STRUCTURAL INTEGRITY OF THE MODULE SHALL BE SUFFICIENT REASON FOR REJECTION OF THE MODULE.
- FINISH AND BASE MATERIALS AT EACH MODULE SHALL TERMINATE AT INTERIOR MODULE JOINTS IN A MANNER TO JOIN FLUSH AND TIGHT WITH SAME MATERIAL IN ADJACENT MODULE SO THE MODULE MAY BE RELOCATED WITH MINIMUM CUTTING AND PATCHING.

# **BUILDING COMMISSIONING REQUIREMENTS**

- SITE-SPECIFIC BUILDINGS OVER 10,000 SQUARE FEET MUST BE COMMISSIONED PER CALIF. TITLE 24, PART 6 - CALIFORNIA ENERGY CODE
- SUMMARY OF COMMISSIONING REQUIREMENTS OWNER'S OR OWNER REPRESENTATIVE'S PROJECT REQUIREMENTS
- DESIGN PHASE DESIGN REVIEW
- COMMISSIONING MEASURES SHOWN IN THE CONSTRUCTION DOCUMENTS COMMISSIONING PLAN
- FUNCTIONAL PERFORMANCE TESTING DOCUMENTATION AND TRAINING
- COMMISSIONING REPORT 3. COMMISSIONING IS NOT A PART OF THE PC APPROVAL
- . COMMISSIONING, WHEN REQUIRED, SHALL BE PROVIDED BY OTHERS.

# MARKERBOARD SPECIFICATIONS

MARKERBOARDS SHALL BE 24 GA. PORCELAIN STEEL FACING SHEET SUITABLE TO ACCEPT DRY ERASE FELT MARKERS. THE FACING SHEET SHALL BE LAMINATED TO PARTICLE BOARD SUBSTRATE WITH A MINIMUM DENSITY OF 45lbs./cu.ft. THE PANEL SHALL HAVE A FOIL BACKING. THE PANELS SHALL HAVE EXTRUDED ALUMINUM MOLDING AND CHALKRAIL WITH A MINIMUM OF 2 15/16" PROJECTION FROM THE FACE OF PANEL. THREE MAP HOOKS WITH CLIPS PER PANEL SHALL BE PROVIDED. ONE FLAG HOLDER, 1/2" SIZE, SHALL JUNIT HORIZONTAL (100-PERCENT SLOPE), THE TOE OF THE SLOPE SHALL BE ASSUMED TO BE BE PROVIDED FOR EACH CLASSROOM. EACH CLASSROOM SHALL HAVE 2 EACH 4'x8' PANELS INSTALLED SIDE BY SIDE TO MAKE A 4'x16' PANEL, CENTERED ON THE WALL.

FOR ANCHORAGE DETAIL, SEE DETAIL 8/A4.0.

REFERENCE BRANDS: CHATFIELD-CLARKE Co, Inc. SERIES 500 OR NELSON ADAMS Co. NACO SERIES 60.

#### INTERIOR

OR OWNER.)

- FLOOR COVERING: PER CBC SECTION 804, COMPLY WITH NFPA 253 CLASS I OR II. COMPLY WITH ASTM E 648 FOR SPECIFIC OPTICAL DENSITY SMOKE RATING NOT TO EXCEED 450. IN EXIT PASSAGEWAYS OR CORRIDORS, THE MINIMUM CRITICAL RADIANT FLUX (CBC 804.4.2) SHALL NOT BE LESS THAN CLASS II. (CARPET SHALL BE SECURELY ATTACHED, HAVE FIRM CUSHION, PAD OR BACKING, OR NONE AT ALL. PILE YARN SHALL BE BRANDED NYLON AND HAVE A LEVEL LOOP, TEXTURED LOOP. LEVEL-CUT PILE OR LEVEL-CUT/UNCUT PILE TEXTURE. THE MAXIMUM PILE HEIGHT SHALL BE 1/2" INCH. NO CROSS SEAMS SHALL BE ALLOWED. THE CARPET DENSITY SHALL BE 4600 MINIMUM. CARPET EDGE TRIM SHALL COMPLY WITH SECTION 11B-303. COLOR TO BE SELECTED BY THE RDPRC
- BASE: RESILIENT COVE BASE BEST QUALITY, MOULDED RUBBER, 1/8" THICK, 4" HIGH MOULDED TOP SET COVE. PROVIDE PREFORMED BASE FOR SQUARE EXTERNAL CORNERS AND PREFORMED END STOPS WHERE BASE DOES NOT ABUT. SOLID COLOR AS MANUFACTURE BY "JOHNSONITE CO.", FLEXCO, OR EQUAL. APPLY COVE TO COMPLETE PERIMETER OF
- INTERIOR WALLS SHALL BE VINYL COVERED TACKBOARD (U.O.N.) APPLIED IN ONE CONTINUOUS LENGTH FROM FLOOR TO CEILING. THE TÁCKBOARD SHALL BE INDUSTRIAL INSULATION BOARD MANUFACTURED SPECIFICALLY AS A SUBSTITUTE FOR VINYL COVERED WALL PANELS. THE BOARD SHALL BE ASPHALT FREE, SHALL HAVE AN IRONED-ON COATING AND SHALL HAVE A MINIMUM DENSITY OF 18 LBS. PER FOOT. THE VINYL COATING SHALL BE MADE OF VIRGIN VINYL CALENDERED BASE COLOR, WEIGHING A MINIMUM OF 8 OZ. PER SQUARE YARD. THE COATING BACKING SHALL BE SHEETING OR NON-WOVEN FABRIC. THE VINYL COATING SHALL BE MECHANICALLY LAMINATED, WITH THE LONG EDGES WRAPPED, TO THE TACKBOARD. TACKBOARD SHALL BE APPLIED OVER 1/2" SHEETROCK OR OSB SHEATHING. THE VINYL WALL COVERED PANEL SHALL HAVE A CLASS 'C' RATING (PER ASTM E 84 OR UL 723). FLAME SPREAD/SMOKE DEVELOPED INDEX MAXIMUMS PER NOTE #6 BELOW. THE PANEL SHALL BE APPROVED FOR CLASSROOM USE BY THE CALIFORNIA STATE FIRE MARSHAL. REFERENCE BRAND: VINYL COVERED TACKBOARD AS MANUFACTURED BY CHATFIELD-CLARKE OR COMPARABLE. CARE SHALL BE TAKEN IN MOUNTING THE TACKBOARD SO THAT THE TEXTURE OF ALL PANELS WILL HAVE THE SAME ORIENTATION AND COLOR MATCH.
- CEILING: SUSPENDED T-BAR SYSTEM, SEE SHEET M1.4 FOR DETAILS, MATERIALS AND INSTALLATION PER ASTM C635, ASTM C636, ASTM E580 AND DSA-IR 25-2.13 AS APPLICABLE TO CLASSROOMS. PANELS SHALL BE 5/8" MINIMUM THICK, MINERAL FIBERBOARD OR VINYL-FACED FIBERGLASS LAY-IN PANELS, SQUARE EDGE, LIGHT REFLECTION 75% MINIMUM. NOISE REDUCTION COEFFICIENT OF 0.65 MINIMUM. ASTM E 84 TESTED, RATED CLASS 'C': FLAME SPREAD INDEX NOT TO EXCEED 200, SMOKE DEVELOPED INDEX RATING NOT TO EXCEED 450.
- THE INTERIOR ENVIRONMENT SHALL BE ASSEMBLED WITH PRODUCTS THAT CONTRIBUTE TO A HEALTHY INDOOR AIR QUALITY (IAQ). THE FOLLOWING SHALL COMPLY TITLE 24, PART 11 ("CAL-GREEN"), SECTION 5.504.4. (SEE SHEET N1.0, SECTION 9C "INTERIOR AIR QUALITY CONTROL")
- FLAME SPREAD/SMOKE-DEVELOPED INDEX (TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723, PER CBC 803.1.1):

WALL FINISH MATERIAL (CLASS 'C') FLAME SPREAD MAX = 200 SMOKE DEVELOPED MAX = 450<u>BUILDING INSULATION (CLASS 'A')</u>

FLAME SPREAD MAX = 25 SMOKE DEVELOPED MAX = 450 DUCT INSULATION (CLASS 'A') LAME SPREAD MAX = 25

PIPE INSULATION (CLASS 'A')

- FLAME SPREAD MAX = 25 SMOKE DEVELOPED MAX = 50 SMOKE DEVELOPED MAX = 450 TOILET PARTITIONS: SOLID PLASTIC BY ACCURATE PARTITIONS CORP OR EQUIVALENT w/ FLOOR ANCHORS, OVERHEAD BRACED OR EQUIVALENT. MINIMUM FLAME SPREAD RATING: 50. MINIMUM SMOKE DEVELOPMENT RATING: 450. (BY OTHERS)
- INTERIOR VENTILATION: EAVE VENTS AND ATTIC VENTS SHALL BE PROVIDED WITH CORROSION-RESISTANT WIRE CLOTH SCREENING, HARDWARE CLOTH, PERFORATED VINYL OR SIMILAR MATERIAL WITH OPENINGS HAVING A LEAST DIMENSION OF NOT LESS THAN 1/16" AND NOT MORE THAN 1/4" INCH, PER C.B.C SECTION 1203.2.1.

# **DOORS & WINDOWS**

- EXTERIOR DOORS: METAL DOORS 3'-0"x7'-0" HOLLOW METAL DOOR CONSTRUCTION OF 1 SHEET OF 18 GA. GRADE II STEEL ASSEMBLED PER CS242 MINIMUM, AND REINFORCED WITH 20 GA. MINIMUM. FILL DOOR SPACES WITH MINERAL WOOL OR OTHER INSULATION. (REINFORCE BOTH FACES FOR CLOSURE.) PROVIDE FLUSH TOP ON DOORS. HARDWARE REINFORCEMENT SHALL BE 10 GA. MIN FOR HINGES, DOOR FRAME SHALL BE 16 GA. PRESSED STEEL FRAME ASTM A366 & C5242, HARDWARE REINFORCEMENT SHALL BE 10 GA. PLATE. FRAMES SHALL BE DESIGNED WITH INTEGRAL STOP AND TRIM. PROVIDE (3) ANCHORS PER JAMB PLUS ADJUSTABLE FLOOR ANCHOR. ROOMS WITH AN OCCUPANT LOAD OF FIVE OR MORE SHALL HAVE DOOR HARDWARE CAPABLE OF BEING LOCKED FROM THE INSIDE (PER CBC 1010.1.11).
- EXTERIOR WINDOWS: PROVIDE ANODIZED ALUMINUM FRAME 5/8" MINIMUM DUAL PANE WINDOW UNITS, AS SHOWN ON FLOOR PLANS. THE 5/8" DIMENSION IS THE MINIMUM THICKNESS FOR THE DUAL GLAZED WINDOW PANEL CONSISTING OF TWO LITES OF GLASS AND THE AIR SPACE.
- GLAZING MATERIAL SHALL BE: EXTERIOR LITE 3/16" MINIMUM TEMPERED GLASS OR LAMINATED AS - 1 GLASS OF SOLAR GRAY GLARE REDUCING TYPE WITH A LIGHT TRANSMISSION FACTOR OF 45% MAXIMUM. INTERIOR LITE - 1/8" MINIMUM CLEAR TEMPERED. MINIMUM AIR SPACE SHALL BE 1/4" SPACE - BENT OR SEALED CORNER ALUMINUM WITH DESICCANT FILL SEALER - BUTYL PRIMARY SEAL AND POLYSULFIDE OR SILICONE SECONDARY SEAL. CERTIFICATION - ALL GLAZING TO BE CERTIFIED IN ACCORDANCE WITH ASTM E-773, E-774.
- HEADER HEIGHT SHALL BE THE SAME AS THE DOOR. ALL OPERABLE SASH SHALL HAVE ALUMINUM SCREENS. WINDOWS SHALL NOT BE MOUNTED TO THE EXTERIOR OSB SURFACE. ALL WINDOWS SHALL MEET THE AAMA GS101-88 VOLUNTARY SPEC. FOR ALUMINUM PRIME WINDOWS AND SLIDING GLASS (ANS1), COMMERCIAL GRADE.

# MECHANICAL EQUIPMENT PROTECTION

ALL MECHANICAL EQUIPMENT SHALL BE THOROUGLY CLEANED PROGRESSIVELY DURING CONSTRUCTION AND COMPLETION OF THE JOB. ALL OPEN ENDS OF DUCTWORK AND EQUIPMENT SHALL BE COVERED AT END OF EACH WORK DAY AND DURING SHIPMENT OF RELOCATABLE

# I FOUNDATION CLEARANCES FROM SLOPES

1808A.7.1 BUILDING CLEARANCE FROM ASCENDING SLOPES. IN GENERAL, BUILDINGS BELOW SLOPES SHALL BE SET A SUFFICIENT DISTANCE FROM THE SLOPE TO PROVIDE PROTECTION FROM SLOPE DRAINAGE, EROSION AND SHALLOW FAILURES. EXCEPT AS PROVIDED IN SECTION 1808A.7.5 AND FIGURE 1808A.7.1, THE FOLLOWING CRITERIA WILL BE ASSUMED TO PROVIDE THIS PROTECTION. WHERE THE EXISTING SLOPE IS STEEPER THAN ONE UNIT VERTICAL IN ONE AT THE INTERSECTION OF A HORIZONTAL PLANE DRAWN FORM THE TOP OF THE FOUNDATION AND A PLANE DRAWN TANGENT TO THE SLOPE AT AN ANGLE OF 45 DEGREES (0.79 RAD) TO THE HORIZONTAL. WHERE A RETAINING WALL IS CONSTRUCTED AT THE TOE OF THE SLOPE, THE HEIGHT OF THE SLOPE SHALL BE MEASURED FROM THE TOP OF THE WALL TO THE TOP OF THE

1808A.7.2 FOUNDATION SETBACK FROM DESCENDING SLOPE SURFACE. FOUNDATIONS ON OR ADJACENT TO SLOPE SURFACES SHALL BE FOUNDED IN FIRM MATERIAL WITH AN EMBEDMENT AND SET BACK FROM THE SLOPE SURFACE SUFFICIENT TO PROVIDE VERTICAL AND LATERAL SUPPORT FOR THE FOUNDATION WITHOUT DETRIMENTAL SETTLEMENT. EXCEPT AS PROVIDED FOR IN SECTION 1808A.7.5 AND FIGURE 1808A.7.1, THE FOLLOWING SETBACK IS DEEMED ADEQUATE TO MEET THE CRITERIA. WHERE THE SLOPE IS STEEPER THAN 1 UNIT VERTICAL IN 1 UNIT HORIZONTAL 100-PERCENT SLOPE), THE REQUIRED SETBACK SHALL BE MEASURED FROM AN IMAGINARY PLANE 45 DEGREES (0.79 RAD) TO THE HORIZONTAL, PROJECTED UPWARD FROM THE TOE OF THE SLOPE.

## FIRE EXTINGUISHER

EACH CLASSROOM SHALL BE EQUIPPED WITH PRESSURE TYPE FIRE EXTINGUISHERS WITH 2A10BC UL RATING, MOUNT ON THE INTERIOR WALL OF THE BUILDING NEAR THE DOORWAY(S) AT A MAXIMUM HEIGHT OF 4 FEET TO THE TOP OF THE OPERATING HANDLE, AND THE BOTTOM OF F.E. MOUNTED 27" OR LESS A.F.F. FIRE EXTINGUISHERS SHALL BE TOTALLY CHARGED AND HAVE A DIAL INDICATING THE STATE OF CHARGE.

#### ACCESSIBILITY STANDARDS

AND 1009.11)

REFERENCE: 2016 CALIFORNIA BUILDING CODE (TITLE 24, PART 2, CCR), CHAPTER 11B "ACCESSIBILITY TO PUBLIC..."

SECTION 11B-206.2 BUILDING ACCESSIBILITY, GENERAL

1. AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ALL BUILDINGS, ELEMENTS, AND AREAS, AND EACH FLOOR INCLUDING MEZZANINES.

#### SECTION 11B-216 SIGNAGE (ALSO REFER TO SECTIONS 11B-703, 1009.9, 1009.10, 1023.9) SIGNAGE IS REQUIRED:

- TO IDENTIFY PERMANENT ROOMS & SPACES TO PROVIDE DIRECTIONS AND INFORMATION ABOUT SPACES & FACILITIES 3. TO IDENTIFY MEANS OF EGRESS A. AREAS OF REFUGE AND AREA FOR ASSISTED RESCUE (PER 1009.9
- B. DIRECTIONS TO AN EXIT (PER 1009.10) C. DELAYED EGRESS LOCKS (PER 1010.1.9.7 ITEM 6)
- D. EXIT WAYS (PER 1013.4) AT EACH GRADE LEVEL EXTERIOR EXIT DOOR
- AT AN EXIT BY MEANS OF A STAIRWAY OR RAMP ("EXIT STAIR") DOWN" OR "EXIT RAMP DOWN" AT AN EXIT ROUTE VIA ENCLOSURE, PASSAGEWAY, CORRIDOR,
- OTHER HORIZONTAL WAYS WHERE THE EXIT OR EXIT PATH IS NOT. IMMEDIATELY VISIBLE (PER 1013.1) IDENTIFY PARKING SPACES
- TO IDENTIFY ENTRANCES OR ROUTE TO AN ACCESSIBLE ENTRANCE . TO IDENTIFY ELEVATORS TO IDENTIFY TOILET ROOMS
- 3. TO IDENTIFY PUBLIC TELEPHONES, TTY and ASSISTIVE LISTENING SYSTEMS SIGNS. WHERE LOCATED WITHIN AN ACCESSIBLE ROUTE, MOUNTED LESS THAN 80" ABOVE THE FINISHED FLOOR, MUST HAVE ROUNDED EDGES OR AN EASED RADIUS MINIMUM OF 0.125".
- ECTION 11B-404.2.8 DOOR CLOSING SPEED

  THE SWEEP PERIOD OF ACCESSIBLE DOORS SHALL BE 5 SECONDS MINIMUM, FROM AN OPEN DOOR POSITION OF 90 DEGREES, TO A DOOR
- POSITION OF 12" FROM THE LATCH. ECTION 11B-404.2.9 DOOR OPENING FORCE THE EFFORT TO OPEN ANY DOOR SHALL NOT EXCEED 5LBS. EXCEPT FIRE
- NEEDED SHALL BE USED. ECTIONS 11B-404.2.4.3 RECESSED DOORS

DOORS, WHICH SHALL NOT EXCEED 15LBS FORCE, THE MINIMUM FORCE

DOORS RECESSED 8" OR MORE SHALL HAVE STRIKE EDGE CLEARANCES II ACCORDANCE WITH FIGURE 11B-404.2.4.3.

#### ECTION 11B-405.5 RAMP WIDTH THE CLEAR WIDTH OF A RAMP SHALL BE 48" MINIMUM.

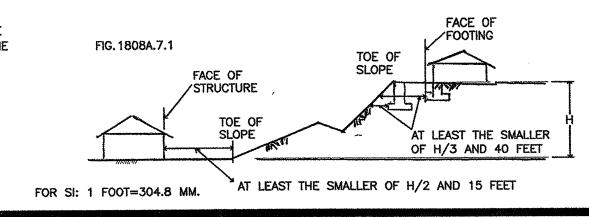
OF THE WRIST.

- SECTION 11B-505 HANDRAILS

  THE TOP OF THE GRIPPING SURFACE OF HANDRAILS SHALL BE BETWEEN 34" AND 38", MEASURED VERTICALLY FROM WALKING SURFACES AND STAIR
- HANDRAILS SHALL HAVE AT LEAST 1-1/2" CLEARANCE ALL AROUND. HANDRAILS SHALL EXTEND BEYOND, AND IN THE SAME DIRECTION, OF STAIRS AND RAMPS.
- CONTROLS TO OPERATE A WATER FAUCET OR OUTLET SHALL BE A SINGLE-LEVER DESIGN, CAPABLE OF BEING OPERATED WITH A SINGLE HAND, AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING
- THE FORCE REQUIRED TO OPERATE CONTROLS SHALL NOT EXCEED 5 LBS. SECTION 11B-604 TOILET ROOMS AND BATHING ROOMS . AN ACCESSIBLE TOILET STALL SHALL HAVE A MINIMUM WIDTH OF 60" AND SHALL BE EQUIPPED WITH A DOOR THAT HAS AN AUTOMATIC-CLOSING DEVICE. AND SHALL HAVE A CLEAR, UNOBSTRUCTED OPENING WIDTH OF 32
- INCHES WHEN LOCATED AT THE END AND 34 INCHES WHEN LOCATED AT THE SIDE. WITH THE DOOR POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION. THE INSIDE AND OUTSIDE OF THE ACCESSIBLE COMPARTMENT DOOR SHALL BE EQUIPPED WITH A LOOP OR U-SHAPED HANDLE IMMEDIATELY BELOW
- THE LATCH. THE LATCH SHALL BE FLIP—OVER STYLE, SLIDING OR OTHER HARDWARE NOT REQUIRING THE USER TO GRASP OR TWIST. EXCEPT FOR DOOR-OPENING WIDTHS AND DOOR SWINGS, A CLEAR, UNOBSTRUCTED ACCESS OF NOT LESS THAN 44 INCHES SHALL BE PROVIDED TO THE WATER CLOSET COMPARTMENTS DESIGNED FOR USE BY
- PERSONS WITH DISABILITIES. A 27"-29" MINIMUM DIMENSION IS REQUIRED FOR LAVATORY/SINK KNEE CLEARANCE, WHICH IS THE DISTANCE FROM THE FINISH FLOOR TO THE UNDERSIDE OF THE LAVATORY/SINK.
- TABLE 11B-604.9 SUGGESTS DIMENSIONS FOR CHILDREN'S USE.

# **OUTDOOR VENTILATION REQUIREMENTS:**

- CLASSROOMS ARE DESIGNED FOR MINIMUM OUTSIDE AIR OF 0.38 CFM PER SF. PER THE CALIFORNIA ENERGY CODE (CEC), SPACES SHALL BE DESIGNED TO THE MINIMUM REQUIREMENTS AS SPECIFIED OR TO 15 CFM PER OCCUPANT. WHICHEVER IS GREATER. PC MANUFACTURER SHALL VERIFY WITH THE SCHOOL DISTRICT THE EXPECTED NUMBER OF OCCUPANTS IN THE CLASSROOM SO THAT THE OUTDOOR VENTILATION RATE FOR MECHANICAL SYSTEMS CAN BE ADEQUATELY ADJUSTED UPON SITE INSTALLATION OF THE BUILDING. PC MANUFACTURER SHALL ALSO CONFIRM WITH HVAC EQUIPMENT MANUFACTURER THAT THE SELECTED EQUIPMENT WILL BE ABLE TO PERFORM TO ACCOMMODATE THE ADDITIONAL OUTDOOR AIR REQUIREMENTS UNDER PEAK DESIGN CONDITIONS FOR THE CLIMATE ZONE IN WHICH THE BUILDING IS LOCATED. AT OCCUPANCY, THE BUILDING MANUFACTURER SHALL PROVIDE TO BUILDING OWNER A DESCRIPTION OF THE QUANTITIES OF OUTDOOR AND RECIRCULATED AIR THAT THE VENTILATION SYSTEMS ARE DESIGNED TO PROVIDE TO EACH AREA.
- . FOR CLASSROOMS GREATER THAN 750 SF OCCUPANT SENSOR VENTILATION CONTROL DEVICES SHALL BE INSTALLED PER CEC 120.2(e)3, AND SHALL OPERATE IN ACCORDANCE WITH CEC 120.1(c)5.



## LIGHT GAUGE METAL STUDS & COLD FORMED STEEL

ALL LIGHT GAUGE METAL STUDS & COLD FORMED STEEL SHALL BE

- FORMED FROM STEEL THAT CORRESPONDS TO THE MINIMUM REQUIREMENTS OF THE AISI \$100-07/\$2-10. ALL GALVANIZED STUDS, JOISTS, TRACK, BRIDGING AND ACCESSORIES SHALL BE FORMED FROM STEEL HAVING A GALVANIZED COATING MEETING
- THE REQUIREMENTS OF ASTM A653. CUSTOM FORMED SHAPES SHALL BE BENT FROM ASTM A1011 STEEL
- . STUD AND TRACK DESIGNATIONS ARE BASED ON STEEL STUD MANUFACTURERS ASSOCIATION. ICC-ES EVALUATION REPORT ESR-3064P. GALVANIZED FRAMING PRODUCTS SHALL BE COATED IN ACCORDANCE WITH 2012 AISI S200-12, SECTION A4. PRODUCTS WILL BE FURNISHED WITH A G-60 OR EQUIVALENT COATING IF SPECIFIED, AND SHALL BE IN CONFORMANCE WITH ASTM C-955, OTHERWISE, G-90 OR EQUIVALENT COATING WILL BE PROVIDED.
- LIGHT GAUGE STEEL TUBES FOR GUARD RAILS/POSTS SHALL BE 33 KSI MINIMUM w/ A MODULUS OF ELASTICITY OF 29,500 KSI ±3%. ACCEPTABLE STEEL MATERIALS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING: 6.1. ASTM A1011 SS GRADE 33 ( $F_Y = 33$  KSI) 6.2. ASTM A653 SS GRADE 33 ( $F_Y = 33$  KSI)
- 7. FLAT STRAP CROSS BRACING AT ROOF DIAPHRAGMS SHALL BE: 7.1. ASTM A1011 SS GRADE 50 ( $F_Y = 50 \text{ KSI}$ )

6.3. ASTM A1008 SS GRADE 33 ( $F_Y = 33$  KSI)

7.2. ASTM A1008 SS GRADE 50 ( $F_Y = 50$  KSI)

**ABBREVIATION LEGEND** 

ASPHALT CONCRETE

AMERICAN CONCRETE INSTITUTE

AMERICAN INSTITUTE OF STEEL

AMERICAN IRON AND STEEL INSTITUTE

AMERICAN SOCIETY FOR TESTING AND

AMERICAN NATIONAL STANDARDS INSTITUTE

AMERICAN WOOD PROTECTION ASSOCIATION

ADJUSTABLE OR ADJACENT

AMERICAN WOOD COUNCIL

AMERICAN WELDING SOCIETY

AIR CONDITIONING

CONSTRUCTION

ARCHITECT(URAL)

**ACOUSTICAL** 

ADDENDUM

**ADDITIONAL** 

AI TERNATE

ALUMINUM

MATERIALS

BUILDING

BLOCKING

**BOUNDARY NAILING** 

BUILT UP ROOFING

CALIFORNIA BUILDING CODE

CALIFORNIA CODE OF REGULATIONS

COMMUNITY NOISE EQUIVALENT LEVEL

DRINKING FOUNTAIN OR DOUGLAS FIR

DIVISION OF THE STATE ARCHITECT

ELECTRICAL MAGNETIC TUBING

COMPLETE JOINT PENETRATION

CONCRETE MASONRY UNIT

CATCH BASIN

CUBIC FOOT

CLEAN OU

CONCRETE

CONNECTION

CONTINUOUS

CENTERED

DIAMFTFR

DIMENSION

DOWNSPOU

ELEVATION

FI FCTRICAL

**EMBEDMEN** 

ET CETERA

EACH WAY

**EXPOSURE** 

EXTERIOR

**FAHRENHEIT** 

**FABRICATION** 

FLOOR DRAIN

FINISHED FLOOR

FLAT HEAD WOOD SCREW

FUTURE

FACTORY

FINISH

FND/FNDN FOUNDATION

**FLOOR** 

FLASHING

FOOTING

FIELD NAILING

FACE OF CONCRETE

FACE OF PLYWOOD

FIBERGLASS REINFORCED PLASTIC PANELS

FACE OF FINISH

FACE OF STUD

EDGE NAILING

DIVISION

DRAWING

COLD WATER

COUNTERSINK

CONTROL JOIN

BLOCK

BELOW

BETWEEN

BOT/BOTT BOTTOM

**ACOUS** 

ADD'L

AISC

ALUM

ANSI

ASTM

AWS

BLKG

BTWN

BUR

CMU

CONC

CONN

CONT

CSK

CTRD

DIAG

EMBED

EXP

FAB

FAC

FHWS

FIN

FLR

FOC

FOF

FOP

FOS

FTG

FLSHG

BLW

ADD

7.3. OR ASTM A653 SS GRADE 50 ( $F_Y = 50$  KSI)

8. WELDING OF LIGHT GAUGE METAL STUDS & COLD FORMED STEEL SHALL COMPLY WITH AWS D1.3-08.

# FASTENERS FOR ATTACHMENT TO STEEL

- SCREWS FOR STEEL TO STEEL CONNECTIONS SHALL BE TEKS PER ICC ESR-1976 OR TEKS SELECT PER ICC ESR-3223 BY ITW BUILDEX, U.O.N.
- A. HEAD TYPE AS REQUIRED FOR APPLICATION. B. SCREW LENGTHS TO HAVE 3 EXPOSED THREADS MIN.
- 2. SHOT PINS SPECIFIED FOR PLYWOOD DIAPHRAM TO STEEL CONNECTIONS SHALL BE ET&F PINS PER IAPMO UES REPORT ER-0335.

#### . SHOT PINS FOR ATTACHMENT OF 2X WOOD OR LIGHT GAUGE STEEL MEMBERS TO STRUCTURAL STEEL SHALL BE BY HILTI UNO.

## METAL FLOOR DECK

FURRED (-ING)

GYPSUM BOARD

GYPSUM BOARD

HOSE BIBB

HEADER

HARDWOOD

HFM FIR

HOLLOW CORE

GLASS OR GLAZING

GALVANIZED SHEET METAL

HOLLOW METAL (STEEL)

HOLLOW STRUCTURAL SECTION (STEEL)

HEATING VENTILATING AIR CONDITIONING

AND MECHANICAL OFFICIALS

INSIDE DIAMETER

INTERIOR

AMINATE(D

LONGITUDINA

LAG SCREW

LIGHT WEIGHT

MAXIMUM

MECHANICAL

MIRROR

MECHANICAL BOLT

VANUFACTURING

MANUFACTURER

MISCELLANEOUS

NOT IN CONTRACT

NORMAL WEIGHT

OUTSIDE DIAMETER

OCCUPANT LOAD

PROPERTY LINE

PLASTIC LAMINATE

ON CENTER

OPENING

**OPPOSITE** 

PLASTER

PLATE

PLWD/PLY PLYWOOD

NATIONAL DESIGN SPECIFICATION

OPPOSITE HAND OR OVERHANG

ORIENTED STRAND BOARD

POUNDS PER LINEAR FOOT

POUNDS PER SQUARE FOOT

POUNDS PER SQUARE INCH

PARALLEL STRAND LUMBER

PRESERVATIVE TREATED DOUGLAS FIR

REGISTERED DESIGN PROFESSIONAL IN

POINT OF CONNECTION

PRODUCT STANDARD

PRESSURE TREATED

POLYVINYL CHLORIDE

RESPONSIBLE CHARGE

PARTITION

ROOF DRAIN

REDWOOD

REFERENCE

REFRIGERATOR

NORMAL WEIGHT CONCRETE

MILLIMETER

LAVATORY

POUND

INSULATE (D), (ION)

INTERNATIONAL CODE COUNCIL

INTERPRETATION OF REGULATIONS

INTERNATIONAL SYMBOL OF

ACCESSIBILITY/ACCESS

LONG LEG HORIZONTAL

LIGHT WEIGHT CONCRETE

LONG LEG VERTICAL

NTERNATIONAL ASSOCIATION OF PLUMBING

KIPS PER SQUARE INCH (KIPS = 1,000LBS)

GAUGE

**GYPSUM** 

GLV/GALV GALVANIZED

HOR/HORIZ HORIZONTAL

GSM

GYP.BD.

HVAC

LIH

LLV

LNDG LONG

MISC

PLAS

**RDPRC** 

REF

REFR

- SECTION PROPERTIES SHALL BE DERIVED IN ACCORDANCE WITH AISI, "SPECIFICATION FOR DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, LATEST EDITION.
- METAL DECKING IS TO BE ATTACHED TO THE STRUCTURAL FRAME IN CONFORMANCE WITH AWS D1.1 AND D1.3, "SPECIFICATION FOR WELDING SHEET STEEL IN STRUCTURES."
- ASTM REFERENCE NUMBERS: ASTM A653, STEEL SHEET, ZINC-COATED (GALVANIZED) OR ZINC-IRON ALLOY-COATED (GALVANEALED) BY THE HOT-DIP PROCESS STRUCTURAL (PHYSICAL) QUALITY.
- , STEEL DECK INSTITUTE (SDI)-METAL FLOOR DECK PROFILES SHALL BE IN CONFORMANCE WITH SDI STANDARDS.
- 5. METAL FLOOR DECK TO BE ASC STEEL DECK PER IAPMO ER-0329:
- 5.1. BH-36, 18 GAUGE, 1/2" DEEP x 36" WIDE 5.2. NH-32, 18 GAUGE, 3" DEEP x 32" WIDE
- 5.3. 3WH-36, 18 GAUGE, 3" DEEP x 36" WIDE
- 5.4. 3WxH-36, 18 GAUGE, 3" DEEP x 36" WIDE

RDWD

SEC

STAGG

STSMS

T&B

TOW

**VCT** 

VERT

WSCT

VOC

5. DECK UNITS ARE TO BE FABRICATED FROM SHEET STEEL CONFORMING TO: 6.1. ASTM A653 SS, Fy=50 KSI WITH A GALVANIZED COATING, G-60 OR

REINFORCING

RESILIENT

REDWOOD

STORM DRAIN

SEPARATION

SHEATHING

SHEET METAL SCREW

SPECIFICATIONS

STAINLESS STEEL

STAGGERED

STANDARD

STEEL

STRUCTURAL PLYWOOD

SELF TAPPING SCREW

TONGUE AND GROOVE

TOP AND BOTTOM

TOP OF PARAPET

TOP OF SHEATHING

UNLESS OTHERWISE NOTED

UNLESS NOTED OTHERWISE

VINYL COMPOSITION TILE

VERIFY IN FIELD

WIDE FLANGE

WOODSCREW

CENTER LINE

MODULE LINE

PLUS/MINUS

DIAMFTER

DEGREES

WAINSCOT

WITHOUT

VINYL WALL COVERING

WELDED WIRE FABRIC

VINYL COVERED TACKBOARD

VOLATILE ORGANIC COMPOUND(S)

TOP OF WALL

**TRANSVERSE** 

TFI FVISION

TOOL JOINT

SELF TAPPING SHEET METAL SCREW

TOP OF CURB, CRICKET, OR CONCRETE

TOP OF SLAB, SHEATHING, OR STEEL

SQUARE FEE

SCH/SCHED SCHEDULE

RAIN WATER LEADER

SELF DRILLING SELF TAPPING SCREW

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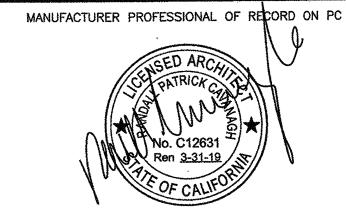
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> 24'x40' THRU 120'x40' HIGH PITCH MODULAR BUILDINGS

SITE SPECIFIC PROJECT NAME

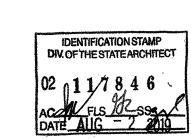
SHEET TITLE GENERAL NOTES

**SPECIFICATIONS** 



THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL



ORIGINAL PC STATE AGENCY APPROVAL DIV. OF THE STATE ARCHITECT PC 02-115726 CATURES 102 SS JOS DATE 10-11-2018 PRE-CHECK (PC) DOCUMENT CODE 2016 CBC A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

REVISIONS RAWN BY SCALE. AS NOTED

SHEET NUMBER