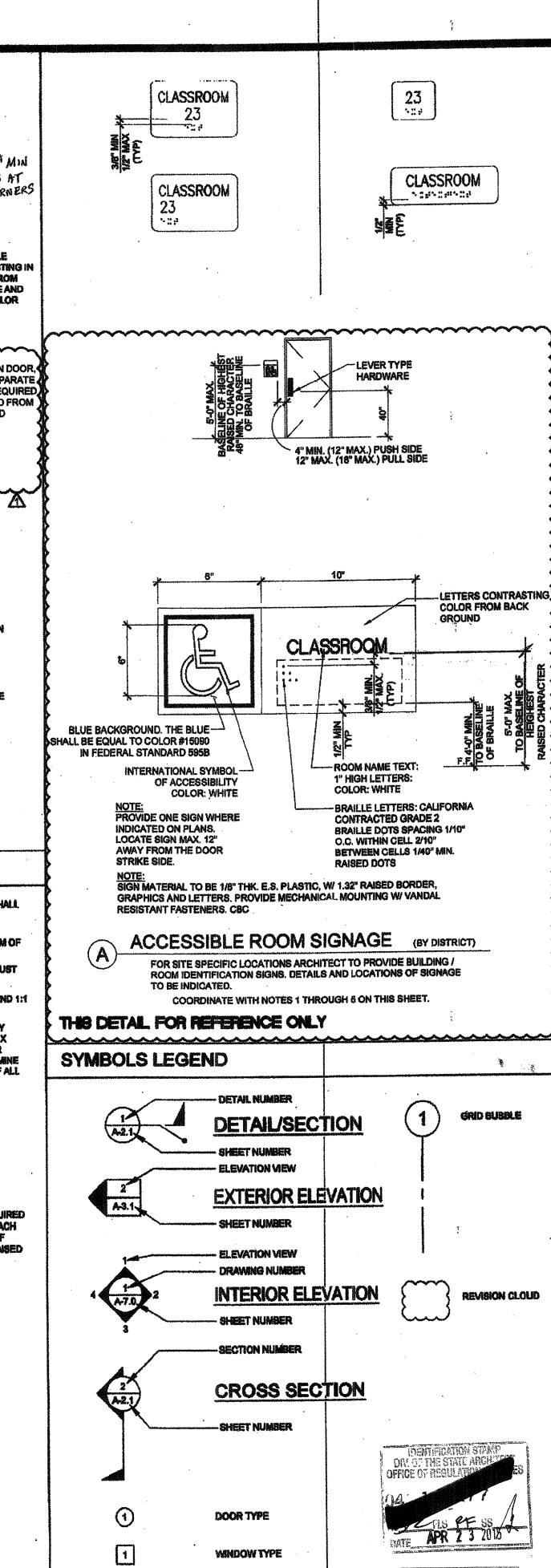
REFLECTED CEILING NOTES 1/4" THICK TRIANGLE **CONTRASTING IN CONTRASTING COLOR** COLOR FROM DOOR-FROM DOOR COLOR-<u>METAL SUSPENSION FOR LAY-IN PANEL CEILING</u> A. 12GA. (MIN.) HANGER WIRES MAY BE USED FOR UP TO THE INCLUDING 4-0" X 4'-0" GRID SPACING, ALONG MAIN RUNNER. SPLICES WILL NOT BE PERMITTED IN ANY ANGER WIRES UNLESS SPECIFICALLY APPROVED BY DSA. 3. Provide 12ga. Hanger wires within 8" of the ends of all main & cross RUNNERS OR AT 1/4 OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS AT THE PRIMETER OF THE CEILING AREA. RADIUS AT C. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT ALL CORNERS OBSTRUCTIONS TO MAINTAIN HANGER SPACING. PROVIDE ADDITIONAL HANGERS, 1/4" THICK TRIANGLE WITH CONTRASTING BLUE COLOR struts or braces as required at the ceiling breaks, soffits or discontinuous areas. Hanger wires that are more than 1 in 6 plumb are # 15090 FEDERAL STANDARD TO HAVE COUNTER SLOPING WIRES 1968 SUPERIMPOSED OVER ---D. CEILING GRID MEMBERS MAY BE ATTACHED TO NOT MORE THAN 2 ADJACENT Walls, ceiling grid members should be at least 3/4" clear of other walls. –14" Circle IF WALLS RUN DIAGONALLY TO CEILING GRID SYS. RUNNERS, THE MAIN AND CROSS CONTRASTING RUNNERS SHOULD BE FREE & A MIN. OF 2/4" CLEAR OF WAL COLOR FROM TRIANGLE AND e. At the perimeter of the ceiling area where main or cross runners are DOOR COLOR NOT CONNECTED TO THE ADJACENT WALL, PROVIDE INTERCONNECTION BETWEEN the runners at the free end to prevent lateral spreading. A metal strut or a 18ga, wire with a positive mechanical connection to the runners may be used. Where the perpendicular distance from the wall TO THE FIRST PARALLEL RUMNERS IS 8" OR LESS, THIS INTERLOCK IS NOT REQ'D. F. PROVIDE BRACING ASSEMBLY CONSISTING OF A COMPRESSION STRU REQUIRED ON DOO! WALL, OR SEPARATI (COMPRESSION STRUTS SHALL BE ADEQUATE TO RESIST THE VERTICAL SIGN. NOT REQUIRE COMPONENT INDUCED BY THE BRACING WIRES, AND SHALL NOT BE MORE THAN 1 TO BE RAISED FROM (HORIZONTAL) IN 6 (VERTICAL) OUT OF PLUMB) AND (4) 12GA. SPLAYED WIRES ORIENTED 90° FROM EA. OTHER AT THE FOLLOWING SPACING. BACKGROUND (A). PLACE BRACING ASSEMBLIES AT A SPACING NOT MORE THAN 12'-0" X 12"-0" ON RESTROOM (B), PROVIDE BRACING ASSEMBLIES AT LOCATIONS NOT MORE THAN 1/2 THE ABOVE SPACING FROM EA. PERIMETER WALL OR AT THE EDGE OF VERTICAL CEILING OFFSETS, THE SLOPE OF THESE WIRES SHALL NOT EXCEED 45° FROM THE PLANI MEASURED FROM F.F. TO @ OF SIGN RESTROOM WALL SIGN OF THE CEILING AND SHOULD BE TAUT WITHOUT CAUSING THE CEILING TO LIFT. SPLICES IN BRACING WIRES ARE NOT PERMITTED WITHOUT SPECIAL DSA G. FASTEN #12 HANGER WIRES WITH NOT LESS THAN THREE (3) TIGHT TURNS IN 3 inches. Hanger wire loops shall be tightly wrapped and sharply bent to prevent any vertical movement or rotation of the member within thi loops (see astm esso, section 5.2.7.2). Fasten splay wires with 4 tight TURNS. HANGER OR BRACING WIRE ANCHORS TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE ANCHOR ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE WIRE. SEPARATE ALL CEILING HANGING AND BRACING WIRES AT LEAST 6" FROM ALL UNBRACED DUCTS, PIPES, CONDUITS, ETC. langer wires shall not attach to or bend around interfering materia OR EQUIPMENT, PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT VIEWBERS AT OBSTRUCTIONS TO TYPICAL HANGER SPACING. SEE FIGURE 3A. DETAIL F OF DSA IR 25-2.10. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS, OR DISCONTINUOUS AREAS. . Ceiling panels shall not support any light fixtures, air terminals of 1/2" MIN. RADIUS TYP. ALL MATH LAB HAME NAME AND ATTACH ALL LIGHT FIXTURES CEILING MOUNTED AIR TERMINALS AND ALL OTHER DEVICES TO THE CEILING GRID RUNNERS TO RESIST A HORIZONTAL FORCE EQUAL SIGN TO READ EXIT TO THE WEIGHT OF THE FIXTURES. SCREWS OR APPROVED FASTENERS ARE RAMP DOWN WHERE REQUIRED, MINIMUM OF TWO ATTACHMENTS ARE REQUIRED AT EACH LIGHT RAMPS OCCUR FIXTURE PER ASTM ESAO SECTION 5.3.1 IMMEDIATELY OUTSIDE RECESSED OR DROP-IN LIGHT FIXTURES, GRILLES, MECHANICAL TERMINALS, AND FLEXIBLE SPRINKLER HOSE FITTINGS OR OTHER SERVICES BE SUPPORTED DIRECTLY ON RUNNERS CLASSIFIED AS ASTM HEAVY DUTY, BUT THEY MUST ALSO HAVE A MINIMUM OF TWO (2) #12 GAGE SLACK SAFETY WIRES ATTACHED TO THE SIGNAGE TEMPLATES FIXTURE AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE. COORDINATE WITH NOTES 1 THROUGH 5 ON THIS SHEET. J. ALL FLUSH OR RECESSED LIGHT FIXTURES, MECHANICAL TERMINALS, AND FLEXIBLE BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR (4) TAUT \$12 GAGE **TACTILE EXIT SIGNS** MIRES ATTACHED TO THE HOUSING AND TO THE STRUCTURE ABOVE. THE FOUR (4) TAUT \$12 GAGE WIRES, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, MUST BE CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE 1. CHARACTER TYPE: CHARACTERS ON SIGNS SHALL BE RAISED 1/32 INCH (0.794 mm) MINIMUM AND SHALL ALL 4 IL x 4 IL LIGHT FIXTURES MUST HAVE SLACK SAFETY WIRES AT EACH CORNER. BE SANS SERIF UPPERCASE CHARACTERS ACCOMPANIED BY CONTRACTED GRADE 2 SKAILLE SURFACE-MOUNTED FIXTURES SHALL BE ATTACHED TO THE MAIN RUNNER WITH AT (SEE NOTE & BELOW). LEAST TWO POSITIVE CLAMPING DEVICES MADE OF MATERIAL WITH A MINIMUM \$14 2. CHARACTER SIZE: RAISED CHARACTERS SHALL BE A MINIMUM OF 5/6 INCH (16.9 mm) AND A MAXIMUM OF GAGE, ROTATIONAL SPRING CATCHES DO NOT COMPLY. A \$12 GAGE SUSPENSION WIRE SHALL BE ATTACHED TO EACH CLAMPING DEVICE TO THE STRUCTURE ABOVE 2 INCHES (51 gm) HIGH. 3. FINISH AND CONTRAST: CONTRAST BETWEEN CHARACTERS, SYMBOLS AND THEIR BACKGROUND MUST BE 70% MINIMUM AND HAVE A NON-GLARE FINISH. 1117B.5.2 PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE 8 ft. OR LONGER. MAXIMUM SPACING BETWEEN SUPPORTS SHALL NOT EXCEED & FEET. SUPPORT PENDANT-MOUNTED LIGHT FIXTURES DIRECTLY FROM THE STRUCTURE ABOVE WITH HANGER WIRES OR CABLES PASSING THROUGH EACH PENDANT 4. PROPORTIONS: CHÀRACTERS ON SIGNS SHALL HAVE A WIDTH-TO HEIGHT FATIO OF BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH-TO-HEIGHT RATIO OF BETWEEN 1:5 AND 1:10. 1117/6.5.3 HANGER AND CAPABLE OF SUPPORTING TWO (2) TIMES THE WEIGHT OF THE FIXTURE. A BRACING ASSEMBLY, PER FIGURE 1, IS REQUIRED WHERE THE PENDANT ALL LETTERS MEASURED MUST BE UPPERCASE. AFTER CHOOSING A DYPESTYLE TO TEST, BEGIN BY PRINTING THE LETTERS I.X. AND O AT 1 INCH HIGH. PLACE THE TEMPLATES 1:1 SQUARE OVER THE X OR O, WHICHEVER IS NARROWER. IF THE CHARACTER IS NOT WIDER THAN 1 INCH, NOR NARROWER THAN THE 3:5 RECTANGLE, THE PROPORTIONS ARE CORRECT. USE THE 1:5 RECTANGLE TO DETERMINE IF THE STROKE OF THE I IS TOO BROAD, AND THE 1:10 RECTANGLE TO SEE IF ITS IS TOO NARROW. IF ALL THE TESTS ARE PASSED, THE TYPESTYLE IS COMPLIANT WITH PROPORTION CODE. HANGER PENETRATES THE CEILING. SPECIAL DETAILS ARE REQUIRED TO ATTACH THE PENDANT HANGER TO THE BRACING ASSEMBLY TO TRANSMIT HORIZONTAL FORCE. IF THE PENDANT MOUNTED LIGHT FIXTURE IS DIRECTLY AND INDEPENDENTLY BRACED BELOW THE CEILING, I.E. AIRCRAFT CABLES TO WALLS, THEN BRACE ASSEMBLY IS NOT REQUIRED ABOVE THE CEILING. SEE IR 16-9 FOR ADDITIONAL REQUIREMENT FOR PENDENT MOUNTED FIXTURES. ALL LIGHT-WEIGHT MISCELLANEOUS DEVISES, SUCH AS STROBE LIGHTS, SPEAKERS, ETC., SHALL BE ATTACHED TO THE CEILING GRID PER SECTION 7.1 OF TEMPLATE FOR CHECKING CHARACTER AND STROKE WIDTY TO HEIGHT PROPORTIONS: DSA IR 25-2.10. IN ADDITION, DEVICES WEIGHING MORE THAN 10 LBS SHALL HAVE A #12 SLACK SAFETY WIRE ANCHORED TO THE STRUCTURE ABOVE. DEVICES WEIGHTING MORE THEN 20 LBS SHALL BE SUPPORTED FROM THE STRUCTURE ABOVE PER SECTION 7.3 OF DSA IR 25-2.10. PENETRATIONS THROUGH THE CEILING FOR SPRINKLER HEADS AND OTHER SIMILAR DEVICES THAT ARE NOT INTEGRALLY TIED TO THE CEILING SYSTEM IN THE LATERAL DIRECTION SHALL HAVE A TWO (2) INCH OVERSIZED RING, SLEEVE OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FREE MOVEMENT OF ONE (1) INCH CHARACTER WIDTH IN ALL HORIZONTAL DIRECTIONS. ALTERNATIVELY, PER ASTM E680 SECTION 5.2.8.8, 5. BRAILLE: CONTRACTED CALIFORNIA GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE IS REQUIRED IN OTHER PORTIONS OF THESE STANDARDS. DOTS SHALL BE 1/10 INCH (2.54 mm) ON CENTERS IN EACH CELL WITH 2/10 INCH (6.08 mm) SPACE BETWEEN CELLS, MEASURED FROM THE SECOND COLUMN OF A FLEXIBLE SPRINKLER HOSE FITTING THAT CAN ACCOMMODATE 1 INCH OF CEILING MOVEMENT SHALL BE PERMITTED TO BE USED IN LIEU OF THE OVERSIZED RING. SLEEVE OR ADAPTER. DOTS IN THE FIRST CELL TO THE FIRST COLUMN OF DOTS IN THE SECOND CELL. DOTS SHALL BE RAISED A MINIMUM OF 1/40 INCH (0.636 mm) ABOVE THE BACKGROUND. 11178.5.6. K. CLASSIFICATION OF CEILING GRID: CLASSIFICATION OF CEILING GRID SHALL BE "HEAVY DUTY" BRAICLE CELL **BRAILLE DOT** MAIN RUNNER: 7301 Inter-call Specing = .20" 4 CROSS TEE: XL7341 2' CROSS TEE: XL7328 2" WALL ANGLE: 7810 ARMSTRONG PER ASTM C636 AND C636. PERIMETER SUPPORTING CLOSURE ANGLE SHALL BE NOT LESS THAN 2". ACOUSTICAL PANELS SHALL BE 5/8" MINIMUM THICK, MINERAL FIBERBOARD OR VINYL FACED FIBERGLASS LAY-IN PANELS SQUARE EDGE AND COC CLASS C FLAME-SPREAD 76-200: SMOKE-DEVELOPED 0-450. REQUIRED ROUNDED OR DOMED CALIFORNIA BRAILLED DOTS, EACH DISTINCT AND SEPARATE. L. FOR CEILING AREAS EXCEEDING 2500 SQUARE FEET, A SEISMIC SEPARATION JOINT DOTS WITH STRAIGHT SIDES AND FLAT TOPS ARE NOT READABLE FOR MANY BRAILLE USERS. SHALL BE PROVIDED IN ACCORDANCE WITH DSA IR 28-2.10 SECTION 8. FIGURE 7. DETAIL A TO DIVIDE THE CEILING INTO AREAS NOT EXCEEDING 2500 SQUARE FEET. EXAMPLE OF HOW TO DEMONSTRATE FONT TO BE USED ALTERNATIVELY, COMPLY WITH ASTM E580-08 SECTION 5.2.9. SEE 20/A-2.20 NOTE FOR FIRE BLK CONSTRUCTION: SECTION 717 PER CBC SECTION 717.2.1. FIRE BLOCKS MAY BE OF GYPSUM BOARD, CEMENT FIBER BOARD, BATTS OR MINERAL OR GLASS FIBER, OR OTHER APPROVED MATERIALS INSTALLED IN SUCH A MANNER AS TO BE SECURELY RETAINED IN PLACE LOOSE-FILL INSULATION MATERIAL SHALL NOT BE USED AS A FIRE BLOCK UNLESS SPECIFICALLY TESTED IN THE FORM AND MANNER INTENDED FOR USE TO DEMONSTRATE ITS ABILITY TO REMAIN IN PLACE AND TO RETARD THE SPREAD OF CHARACTER PROPORTIONS FIRE AND HOT GASES. (SECTION 717.2.1). FLAME SPREAD - 25 SMOKE DEVELOPMENT - 50 MAX WIDTH-TO-HEIGHT PROPORTIONS TEMPLATE FIRE BLOCKING IS NOT REQUIRED WITHIN CONCEALED SPACES CONSTRUCTED OF 2/10" SPACE BETWEEN CELLS (LETTERS) NON-COMBUSTIBLE MATERIALS **CALIFORNIA CONTRACTED GRADE 2** 3. DUCTWORK SHALL BE RIGIDLY ATTACHED TO BUILDING AND SHALL NOT BE CLOSER BRAILLE SHALL BE USED WHEREVER

THAN 6" TO HANGER WIRES

4. HANGER WIRES MORE THAN 1-IN-6 OUT OF PLUMB SHALL HAVE COUNTER SLOPING



(WC)

BRAILLE IS REQUIRED. INDIVIDUAL

SEPARATE. EACH DOT SHALL BE ROUNDED OR DOMED IN LIEU OF

SQUARE SIDED AND FLAT TOPPED.

BRAILLE SPACING TEMPLATE PER TITLE 24

BRAILLE DOTS SHALL BE DISTINCT AND

PLUMBING FIXTURE

REVISION TO ORIGINAL DRAWING

117237

