

STAIRWAYS

STAIR TREADS AND RISERS:

STAIR RISER HEIGHTS SHALL BE 7 INCHES (178 mm) MAXIMUM AND 4 INCHES (102 mm) MINIMUM. STAIR TREAD DEPTHS SHALL BE 11 INCHES (279 mm) MINIMUM. THE RISER HEIGHT SHALL BE MEASURED VERTICALLY BETWEEN THE LEADING EDGES OF ADJACENT TREADS. THE TREAD DEPTH SHALL BE MEASURED HORIZONTALLY BETWEEN THE VERTICAL PLANES OF THE FOREMOST PROJECTION OF ADJACENT TREADS AND AT RIGHT ANGLE TO THE TREAD'S LEADING EDGE.

DIMENSIONAL UNIFORMITY:

STAIR TREADS AND RISERS SHALL BE OF UNIFORM SIZE AND SHAPE. THE TOLERANCE BETWEEN THE LARGEST AND SMALLEST RISER OR BETWEEN THE LARGEST AND SMALLEST TREAD SHALL NOT EXCEED 0.375 INCH (9.5 mm) IN ANY FLIGHT OR STAIRS.

PROFILE:

THE RADIUS OF CURVATURE AT THE LEADING EDGE OF THE TREAD SHALL BE NOT GREATER THAN 0.5 INCH (12.7 mm). BEVELING OF NOSINGS SHALL NOT EXCEED 0.5 INCH (12.7 mm). RISERS SHALL BE SOLID AND VERTICAL OR SLOPED FROM THE UNDERSIDE OF THE LEADING EDGE OF THE TREAD ABOVE AT AN ANGLE NOT MORE THAN 30 DEGREES (0.52 rad) FROM THE VERTICAL. THE LEADING EDGE (NOSINGS) OF TREADS SHALL PROJECT NOT MORE THAN 1.25 INCHES (32 mm) BEYOND THE TREAD BELOW AND ALL PROJECTIONS OF THE LEADING EDGES SHALL BE OF UNIFORM SIZE, INCLUDING THE LEADING EDGE OF THE FLOOR AT THE TOP OF A FLIGHT.

STAIRWAY LANDINGS:

THERE SHALL BE A FLOOR OR LANDING AT THE TOP AND BOTTOM OF EACH STAIRWAY. THE WIDTH OF LANDINGS SHALL NOT BE LESS THAN THE WIDTH OF STAIRWAYS THEY SERVE. EVERY LANDING SHALL HAVE A MINIMUM DIMENSION MEASURED IN THE DIRECTION OF TRAVEL EQUAL TO THE WIDTH OF THE STAIRWAY. SUCH DIMENSION NEED NOT EXCEED 48 INCHES (1219 mm) WHERE THE STAIRWAY HAS A STRAIGHT RUN.

STAIRWAY WALK SURFACE:

THE WALKING SURFACE OF TREADS AND LANDINGS OF A STAIRWAY SHALL NOT BE SLOPED STEEPER THAN ONE UNIT VERTICAL IN 48 UNITS HORIZONTAL (2-PERCENT SLOPE) IN ANY DIRECTION. STAIRWAY LANDINGS SHALL HAVE A SOLID SURFACE. FINISH FLOOR SURFACES SHALL BE SECURELY ATTACHED.

HANDRAILS

HEIGHT:

HANDRAIL HEIGHT, MEASURED ABOVE STAIR TREAD NOSINGS, OR FINISH SURFACE OF RAMP SLOPE, SHALL BE UNIFORM, NOT LESS THAN 34 INCHES (864 mm) AND NOT MORE THAN 38 INCHES (965 mm).

HANDRAIL GRASPABILITY:

HANDRAILS WITH A CIRCULAR CROSS SECTION SHALL HAVE AN OUTSIDE DIAMETER OF AT LEAST 1.25 INCHES (32 mm) AND NOT GREATER THAN 2 INCHES (51 mm) OR SHALL PROVIDE EQUIVALENT GRASPABILITY. IF THE HANDRAIL IS NOT CIRCULAR, IT SHALL HAVE A PERIMETER DIMENSION OF AT LEAST 4 INCHES (102 mm) AND NOT GREATER THAN 6.25 INCHES (159 mm) WITH A MAXIMUM CROSS-SECTION DIMENSION OF 2.25 INCHES (57 mm). EDGES SHALL HAVE A MINIMUM RADIUS OF 0.125 INCH (3.2 mm).

CONTINUITY:

HANDRAIL-GRIPPING SURFACES SHALL BE CONTINUOUS, WITHOUT INTERRUPTION BY NEWEL POSTS OR OTHER OBSTRUCTIONS.

HANDRAIL EXTENSIONS:

HANDRAILS SHALL RETURN TO A WALL, GUARD OR THE WALKING SURFACE OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT. WHERE HANDRAILS ARE NOT CONTINUOUS BETWEEN FLIGHTS, THE HANDRAILS SHALL EXTEND HORIZONTALLY AT LEAST 12 INCHES (305 mm) BEYOND THE TOP RISER AND CONTINUE TO SLOPE FOR THE DEPTH OF ONE TREAD BEYOND THE BOTTOM RISER.

CLEARANCE:

CLEAR SPACE BETWEEN A HANDRAIL AND A WALL OR OTHER SURFACE SHALL BE A MINIMUM OF 1.5 INCHES (38 mm). A HANDRAIL AND A WALL OR OTHER SURFACE ADJACENT TO THE HANDRAIL SHALL BE FREE OF ANY SHARP OR ABRASIVE ELEMENTS.

RAMP

SLOPE:

RAMP USED AS PART OF A MEANS OF EGRESS SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN ONE UNIT VERTICAL IN 12 UNITS HORIZONTAL (8-PERCENT SLOPE)

CROSS SLOPE:

THE SLOPE MEASURED PERPENDICULAR TO THE DIRECTION OF TRAVEL OF A RAMP SHALL NOT BE STEEPER THAN ONE UNIT VERTICAL IN 48 UNITS HORIZONTAL (2-PERCENT SLOPE)

RISE:

THE RISE FOR ANY RAMP SHALL BE 30 INCHES (762 mm) MAXIMUM.

LANDINGS:

RAMP SHALL HAVE LANDINGS AT THE BOTTOM AND TOP OF EACH RAMP, POINTS OF TURNING, ENTRANCE, EXITS AND AT DOORS.

SLOPE (LANDINGS):

LANDINGS SHALL HAVE A SLOPE NOT STEEPER THAN ONE UNIT VERTICAL IN 48 UNITS HORIZONTAL (2-PERCENT SLOPE) IN ANY DIRECTION. CHANGES IN LEVEL ARE NOT PERMITTED.

WIDTH:

THE LANDING SHALL BE AT LEAST AS WIDE AS THE WIDEST RAMP RUN ADJOINING THE LANDING.

LENGTH:

THE LANDING LENGTH SHALL BE 60 INCHES (1525 mm) MINIMUM.

CHANGE IN DIRECTION:

WHERE CHANGES IN DIRECTION OF TRAVEL OCCUR AT LANDINGS PROVIDED BETWEEN RAMP RUNS, THE LANDING SHALL BE 60 INCHES (1524 mm) MINIMUM BY 60 INCHES (1524 mm) MINIMUM.

RAMP SURFACE:

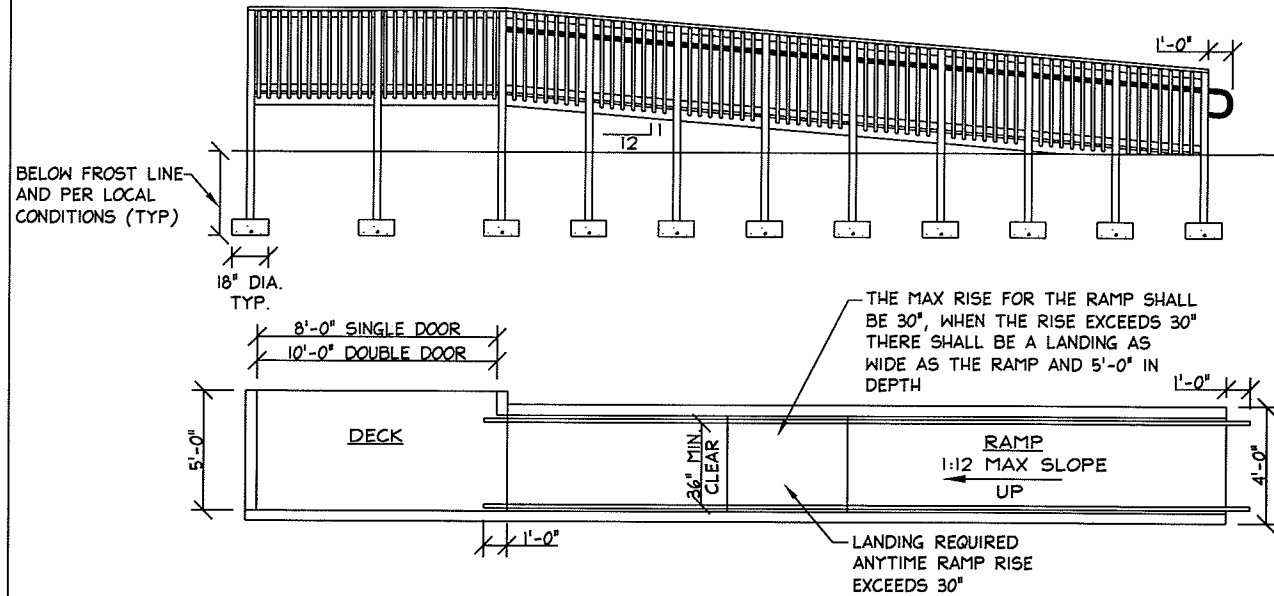
THE SURFACE OF RAMPS SHALL BE OF SLIP-RESISTANT MATERIALS THAT ARE SECURELY ATTACHED.

HANDRAILS:

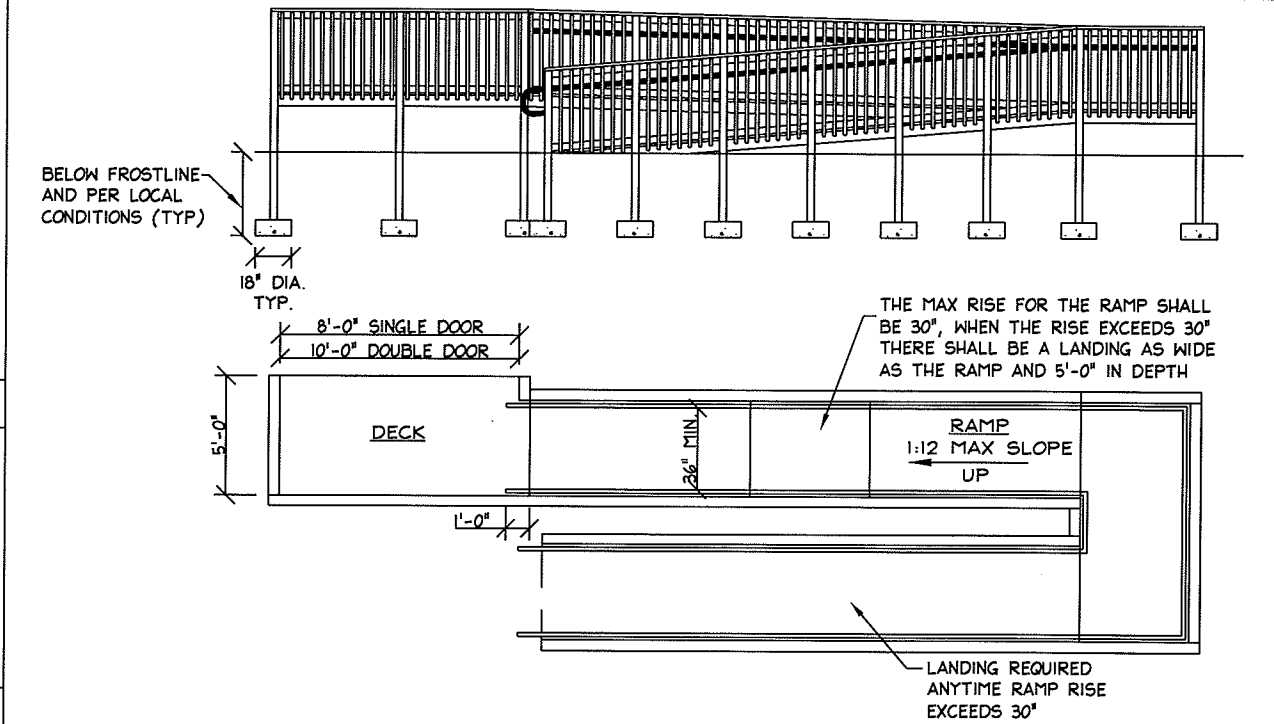
RAMPS WITH A RISE GREATER THAN 6 INCHES (152 mm) SHALL HAVE HANDRAILS ON BOTH SIDES.

GENERAL NOTES

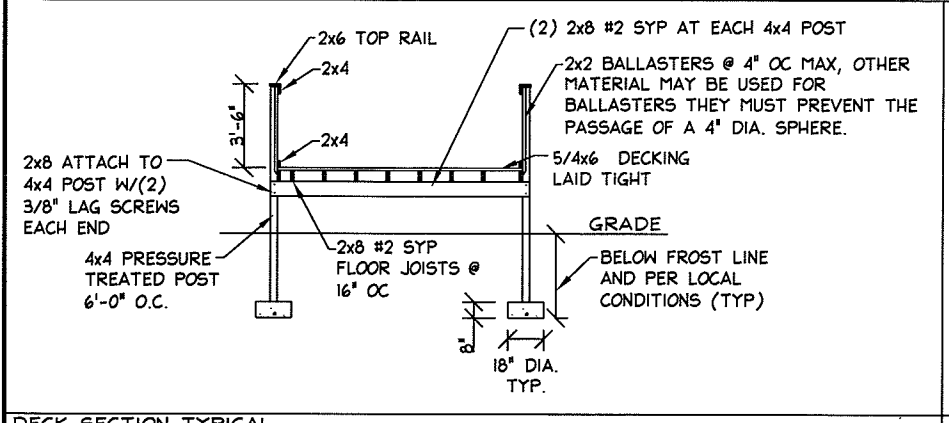
1. ALL TREATED LUMBER AND GALVANIZED FASTENERS
2. THIS IS TYPICAL DECK, STAIR AND RAMP CONSTRUCTION.
3. DECK AND RAMP CONFIGURATIONS CAN BE MIRRORRED OR ROTATED TO MEET ANY SITE CONDITIONS THAT MAY REQUIRE THIS.



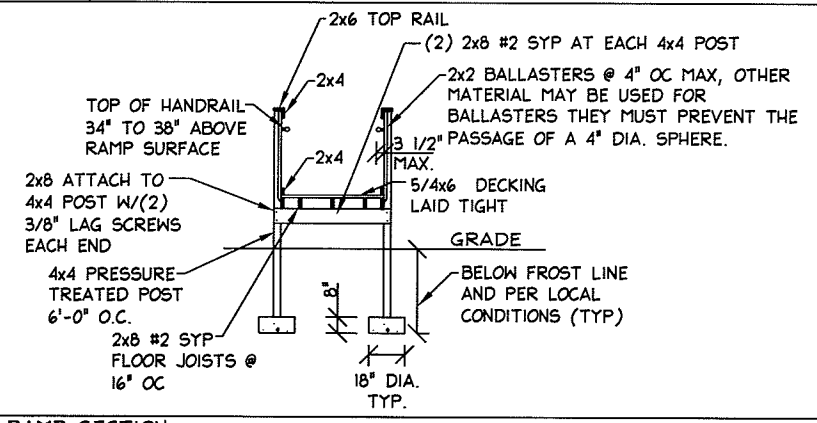
SINGLE RUN RAMP PLAN / ELEVATION



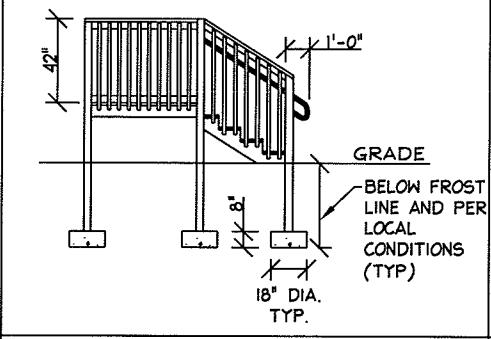
DOUBLE RUN RAMP PLAN / ELEVATION



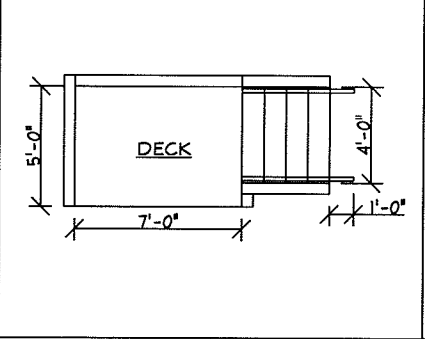
DECK SECTION TYPICAL



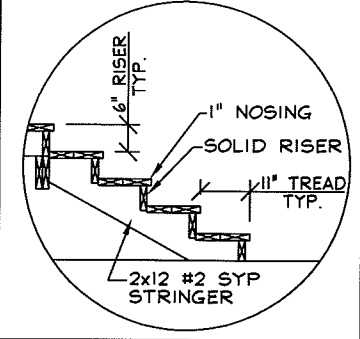
RAMP SECTION



STAIR ELEVATION



STAIR PLAN



STAIR DETAIL

REVISIONS:

SCALE: 1/8" = 1'-0"
DATE: 7/21/06

APPROVED BY:
DRAWN BY: A. ROYS

MODULAR GENIUS, INC.

TITLE: TYP. DECK-RAMP-STAIR
MODEL:

PROJECT NO: MG062706-1
DRAWING NO: