

ACCESSIBILITY RULES FOR RAMPS

1. ANY PART OF AN ACCESSIBLE ROUTE WITH A SLOPE GREATER THAN 1:20 WILL BE CONSIDERED A RAMP.
2. THE MAXIMUM SLOPE OF A RAMP IN NEW CONSTRUCTION SHOULD BE 1:12 OR LESS.
3. THE MAXIMUM RISE OF ANY RUN SHOULD BE 30 INCHES OR LESS.
4. THE CROSS SLOPE OF THE RAMP SHOULD BE NO GREATER THAN 1:50.
5. THE RAMP SURFACE MUST BE NON-SLIP.
6. ALL GRATING OPENINGS MUST BE 1/2 INCH OR SMALLER AND MUST BE PLACED PERPENDICULAR TO THE USUAL DIRECTION OF TRAVEL.
7. THE CLEAR WIDTH OF THE RAMP MUST BE AT LEAST 36 INCHES.
8. A LEVEL LANDING MUST BE PROVIDED AT THE TOP AND BOTTOM OF EACH RUN.
9. THE LANDING MUST BE AT LEAST AS WIDE AS THE RAMP AND AT LEAST 60 INCHES LONG.
10. WHERE RAMPS CHANGE DIRECTION, THE LANDING MUST BE AT LEAST 60 BY 60 INCHES.
11. DESIGN RAMPS WITH PROPER DRAINAGE SO THAT WATER WILL NOT ACCUMULATE ON SURFACES.

ACCESSIBILITY RULES FOR HANDRAILS

1. A HANDRAIL ON EITHER SIDE MUST BE PROVIDED IF THE RAMP RISES MORE THAN 6 INCHES OR IS LONGER THAN 72 INCHES.
2. THE HANDRAILS MUST BE CONTINUOUS AND FIXED SO THEY DO NOT ROTATE OR RACK.
3. THE TOP OF THE HANDRAILS MUST BE BETWEEN 34 AND 38 INCHES ABOVE THE RAMP SURFACE. SEE DIAGRAM 1.
4. AT THE END OF THE HANDRAILS THERE MUST BE AT LEAST 12 INCHES OF LEVEL HANDRAIL BEYOND THE TOP AND BOTTOM OF THE RAMP SEGMENT.
5. ALL HANDRAIL ENDS MUST BE ROUNDED AND RETURNED SMOOTHLY TO THE FLOOR, WALL OR POST.
6. THE DIAMETER OF THE HANDRAIL MUST BE BETWEEN 1 1/4 AND 1 1/2 INCHES, SEE DIAGRAM 2.
7. ALL WALL-MOUNTED HANDRAILS MUST BE MOUNTED WITH EXACTLY 1 1/2 INCHES BETWEEN HANDRAIL AND WALL SEE DIAGRAM 2.
8. WHERE RAMPS OR LANDINGS HAVE DROP OFFS, PROVIDE A 2 INCH CURB, WALL, RAILING OR PROJECTING SURFACE TO PREVENT PEOPLE FROM FALLING OFF THE RAMP.

ACCESSIBILITY RULES FOR PATHWAYS

1. THERE MUST BE AN ACCESSIBLE ROUTE LINKING ACCESSIBLE PARKING AND PASSENGER LOADING ZONES WITH THE ACCESSIBLE BUILDING ENTRANCE.
2. THE ACCESSIBLE PATHWAY MUST BE FREE OF STEPS AND STAIRS.
3. THE ACCESSIBLE PATHWAY MUST BE AT LEAST 36 INCHES WIDE.
4. IF THE PATHWAY IS LESS THAN 60 INCHES WIDE, PROVIDE PASSING SPACES AT LEAST 60 INCHES WIDE AND 60 INCHES LONG AT INTERVALS NOT EXCEEDING 200 FEET.
5. PROVIDE AT LEAST 80 INCHES OF CLEAR HEAD ROOM ALONG PATHWAY.
6. ACCESSIBLE PATHWAYS MUST BE FIRM AND SLIP RESISTANT.
7. THE SLOPE OF THE ACCESSIBLE PATHWAY MUST BE NO GREATER THAN 1:20.
8. WHERE WALKWAY LEVELS CHANGE, THE VERTICAL DIFFERENCE BETWEEN THEM MUST BE LESS THAN 1/4 INCH.
9. CHANGES IN LEVEL BETWEEN 1/4 INCH AND 1/2 INCH ANYWHERE ON THE ACCESSIBLE ROUTE MUST BE BEVELED WITH A SLOPE OF 1:2.
10. CHANGES GREATER THAN 1/2 MUST BE RAMPED.
11. THE TRANSITION FROM THE CURB RAMP TO THE WALKWAY, ROAD AND GUTTER MUST BE FLUSH AND FREE TO ABRUPT CHANGES.

DEFINITIONS

RAMP:

A WALKING SURFACE IN AN ACCESSIBLE SPACE THAT HAS A RUNNING SLOPE GREATER THAN 1:20.

RAMP SLOPE:

THE RATIO OF THE RISE TO THE RUN OF THE RAMP (Y:X). SEE SHEET 8.

WALK:

AN EXTERIOR PATHWAY WITH A PREPARED SURFACE INTENDED FOR PEDESTRIAN USE, INCLUDING GENERAL PEDESTRIAN AREAS SUCH AS PLAZAS AND COURTS.

SIGNS

1. THE CHARACTER PROPORTION OF THE LETTERS AND NUMBERS ON SIGNS MUST HAVE A WIDTH TO HEIGHT RATIO BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH TO HEIGHT RATIO BETWEEN 1:5 AND 1:10.
2. CHARACTERS AND SYMBOLS MUST CONTRAST WITH THEIR BACKGROUND (LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND) AND BE A NON-GLARE FINISH.
3. RAISED OR INDENTED CHARACTERS OR SYMBOLS ON SIGNS MUST BE RAISED OR INCISED 1/32 INCH MINIMUM AND SHOULD BE SANS SERIF CHARACTERS. RAISED CHARACTERS OR SYMBOLS MUST BE AT LEAST 5/8 INCH HIGH, BUT NO HIGHER THAN 2 INCHES. INDENTED CHARACTERS OR SYMBOLS MUST HAVE A STROKE WIDTH OF AT LEAST 1/4 INCH.
4. SYMBOLS OF ACCESSIBILITY MUST BE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY.

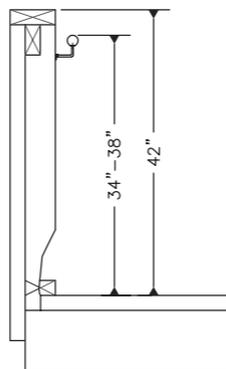


DIAGRAM 1

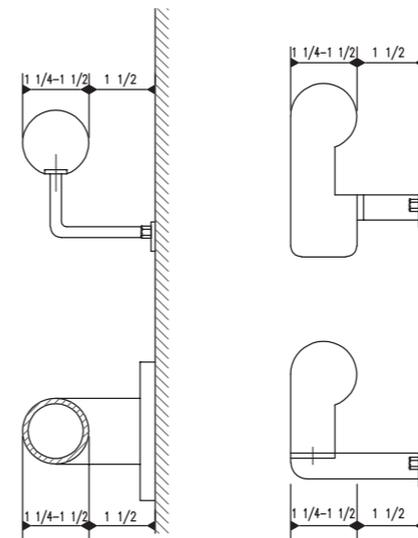


DIAGRAM 2
HANDRAIL TYPES

Copies of these drawings have been distributed for review. Final approval and signature are pending.

DRAFT

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UNLESS OTHERWISE SPECIFIED	DATE	REVISION	BY
TOLERANCES: FRACTIONS +/- _____ DECIMALS +/- _____ ANGLES +/- _____ DIMENSIONS ARE IN INCHES BREAK SHARP EDGES		U. S. DEPT. OF AGRICULTURE FOREST SERVICE TECHNOLOGY & DEVELOPMENT CENTER MISSOULA, MONTANA	
DRAWN D.MUCCI		TITLE	
DESIGNED MUCCI/ORAVETZ		ACCESSIBLE BOAT RAMP	
CHECKED S.ORAVETZ		FOR DRY LAND LOADING AND UNLOADING	
APPROVED S.ORAVETZ			
SCALE FULL	979-7.DWG		
DATE JAN 2000	SHEET 7 of 8	MTDC- 979	