

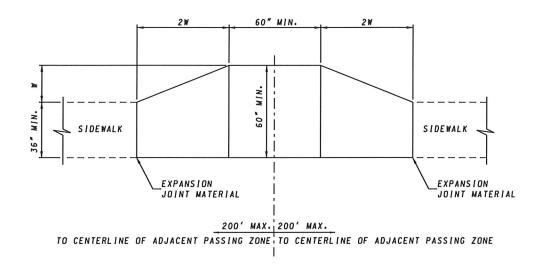
SPECIFICATION CATEGORY CODE ITEMS **Maryland Department of Transportation** STATE HIGHWAY ADMINISTRATION Kik G. Mª COLOL.

DIRECTOR - OFFICE OF HIGHWAY DEVELOPMENT APPROVED STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES APPROVAL • SHA APPROVAL • FEDERAL REVISIONS HIGHWAY ADMINISTRATION SIDEWALK EXPANSION JOINTS APPROVAL 3-11-64 APPROVAL

MD 655.01

10-1-01 REVISED REVISED REVISED REVISED STANDARD NO.

REVISED

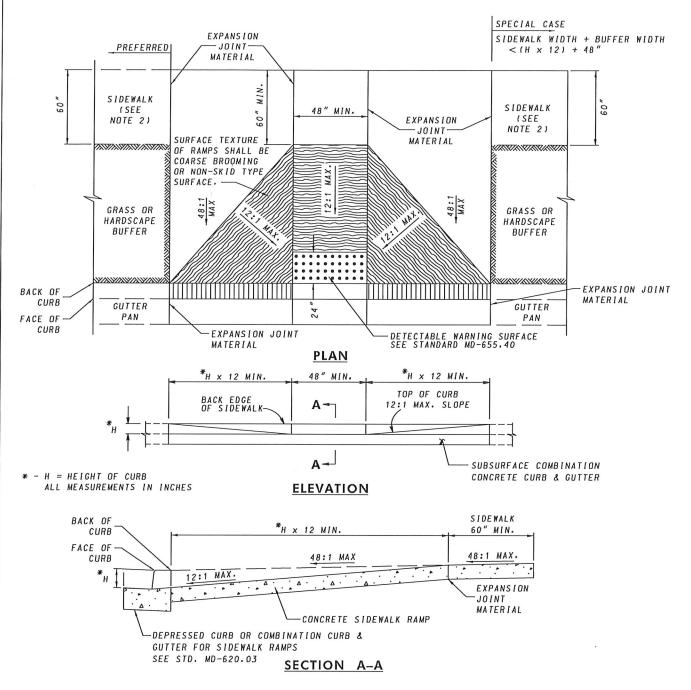


PLAN

NOTES

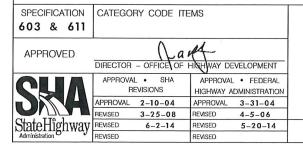
- 1. WHERE THE CONTINUOUS WIDTH FOR TRAVEL IS LESS THAN 60". SIDEWALK PASSING ZONES SHALL BE PROVIDED AT AN INTERVAL NOT TO EXCEED 200'. USE OF ENTRANCES AND LEADER WALKS AS PASSING ZONES IS ACCEPTABLE PROVIDED THAT THE GEOMETRY MEETS THE REQUIREMENTS OF THIS STANDARD.
- 2. SIDEWALK PASSING ZONES SHALL BE LOCATED AS INDICATED ON DRAWINGS. HOWEVER EXISTING LIGHT POLES. FIRE HYDRANTS. DROP INLETS. ETC. MAY AFFECT PLACEMENT.
- 3. SIDEWALK TRANSVERSE SLOPE SHALL BE MAINTAINED ACROSS THE ENTIRE WIDTH OF THE PASSING ZONE (48:1 MAX.).

SPECIFICATION 603	CATEGORY CODE ITEMS		Maryland Department of Transportation STATE HIGHWAY ADMINISTRATION		
APPROVED	Kick G. M. Call DIRECTOR - OFFICE OF HIGHWAY DEVELOPMENT		STATE HIGHWAY ADVITUTION STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES		
CUA	APPROVAL • SHA REVISIONS	APPROVAL • FEDERAL HIGHWAY ADMINISTRATION	SIDEWALK		
	APPROVAL 2-10-04	APPROVAL 3-31-04	PASSING ZONES		
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IStateHighwav	REVISED	REVISED	STANDARD NO. MD 655.02		
Administration O	REVISED	REVISED	STANDARD NO. MD 855.02		



NOTES

- 1. TO BE USED ON WIDE SIDEWALKS OR SIDEWALKS WITH SIGNIFICANT SEPARATION FROM THE ROADWAY WHERE THE GEOMETRY SPECIFIED IN THE DETAILS ABOVE CAN BE SATISFIED. MAY BE MODIFIED TO SUIT A PARTICULAR LOCATION.
- 2. WHERE 60" SIDEWALK CAN NOT BE PROVIDED, A DESIGN WAIVER MUST BE REQUESTED
- 3. NO TRAVERSABLE SLOPE ON THE RAMP OR SIDEWALK SHALL EXCEED 12:1 IN THE DIRECTION OF PEDESTRIAN TRAVEL, OR 48:1 PERPENDICULAR TO THE DIRECTION OF PEDESTRIAN TRAVEL.
- 4. EXPANSION JOINT MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH STD. MD-655.01.
- 5. SIDEWALK RAMPS TO BE SHOWN ON PLANS SYMBOLICALLY AND REFERENCED WITH THE CENTER OF THE RAMP ALIGNED TO A STATION ON THE CONSTRUCTION CENTERLINE. SEPARATE DETAILS SHALL BE SHOWN WHERE PROPOSED RAMP VARIES FROM STANDARD CASES.
- 6. TRANSITION PANELS TO TIE INTO EXISTING SIDEWALK MUST BE A MINIMUM OF 5' IN LENGTH.

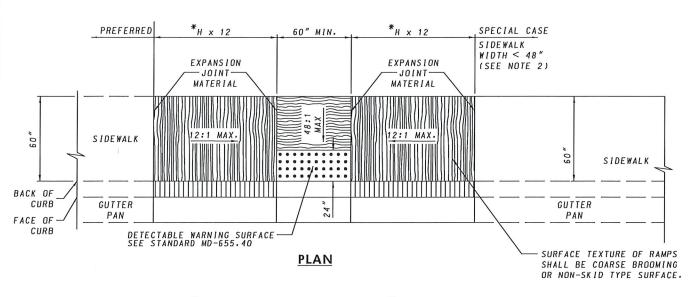


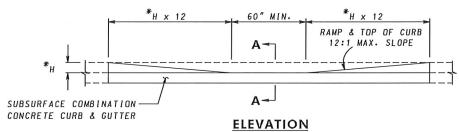
Maryland Department of Transportation STATE HIGHWAY ADMINISTRATION

STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES

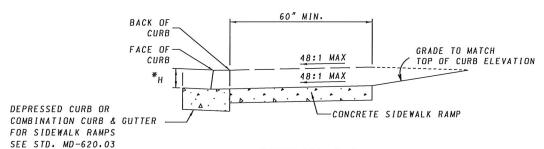
SIDEWALK RAMPS PERPENDICULAR

STANDARD NO.





- H = HEIGHT OF CURB ALL MEASUREMENTS IN INCHES



SECTION A-A

NOTES

- TO BE USED WHERE SIDEWALK IS ADJACENT TO THE CURB. THIS STANDARD MAY BE MODIFIED TO SUIT A PARTICULAR LOCATION.
- WHERE 60" SIDEWALK CAN NOT BE PROVIDED. A DESIGN WAIVER MUST BE REQUESTED.
- NO TRAVERSABLE SLOPE ON THE RAMP OR SIDEWALK SHALL EXCEED 12:1 IN THE DIRECTION OF PEDESTRIAN TRAVEL. OR 48:1 PERPENDICULAR TO THE DIRECTION OF PEDESTRIAN TRAVEL. THE CROSS-SLOPE OF THE LANDING AREA CANNOT EXCEED GRADE OF ROADWAY
- EXPANSION JOINT MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH STD. MD-655.01.
- SIDEWALK RAMPS TO BE SHOWN ON PLANS SYMBOLICALLY AND REFERENCED WITH THE CENTER OF THE RAMP ALIGNED TO A STATION ON THE CONSTRUCTION CENTERLINE. SEPARATE DETAILS SHALL BE SHOWN WHERE PROPOSED RAMP VARIES FROM STANDARD CASES.
- TRANSITION PANELS TO TIE INTO EXISTING SIDEWALK MUST BE A MINIMUM OF 5' IN LENGTH

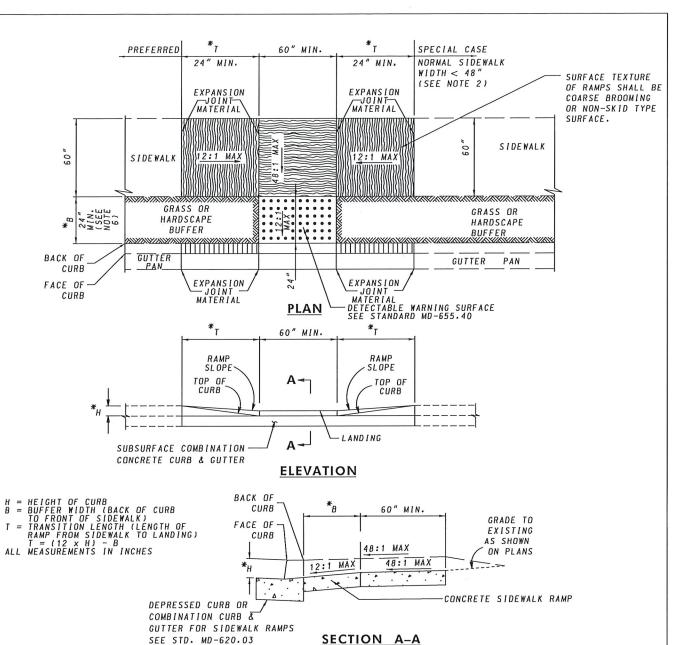
SPECIFICATION CATEGORY CODE ITEMS 603 & 611 ans **APPROVED** DIRECTOR - OFFICE OF HIGHWAY DEVELOPMENT APPROVAL • SHA APPROVAL • FEDERAL REVISIONS HIGHWAY ADMINISTRATION 2-10-04 APPROVAL 3-31-04 REVISED 3-25-08 REVISED 4-5-06 StateHighway REVISED 6-2-14 REVISED 5-20-14 REVISED REVISED

Maryland Department of Transportation STATE HIGHWAY ADMINISTRATION

STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES

SIDEWALK RAMPS PARALLEL

STANDARD NO.



NOTES

- TO BE USED WHERE AT LEAST 7'-O" EXISTS BETWEEN THE BACK OF CURB AND THE BACK OF SIDEWALK. THIS STANDARD
 MAY BE MODIFIED TO SUIT A PARTICULAR LOCATION.
- 2. WHERE 60" SIDEWALK CAN NOT BE PROVIDED. A DESIGN WAIVER MUST BE REQUESTED.
- 3. NO TRAVERSABLE SLOPE ON THE RAMP OR SIDEWALK SHALL EXCEED 12:1 IN THE DIRECTION OF PEDESTRIAN TRAVEL, OR 48:1 PERPENDICULAR TO THE DIRECTION OF PEDESTRIAN TRAVEL.
- 4. EXPANSION JOINT MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH STD. MD-655.01.
- 5. SIDEWALK RAMPS TO BE SHOWN ON PLANS SYMBOLICALLY AND REFERENCED WITH THE CENTER OF THE RAMP ALIGNED TO A STATION ON THE CONSTRUCTION CENTERLINE. SEPARATE DETAILS SHALL BE SHOWN WHERE PROPOSED RAMP VARIES FROM STANDARD CASES.
- 6. FOR BUFFER WIDTHS LESS THAN 24". WIDEN SIDEWALK TO BACK OF CURB AS SHOWN FOR THE SPECIAL CASE, THEN BUILD PARALLEL RAMP USING STANDARD MD-655.12.
- 7. TRANSITION PANELS TO TIE INTO EXISTING SIDEWALK MUST BE A MINIMUM OF 5' IN LENGTH
- 8. IF THE BUFFER AREA IS GREATER THAN OR EQUAL TO 4' THE LANDING AREA MUST BE 2% X 2%. IF THE BUFFER AREA IS LESS THAN 4' THE LANDING AREA CROSS-SLOPE CANNOT EXCEED THE GRADE OF THE ROAD.

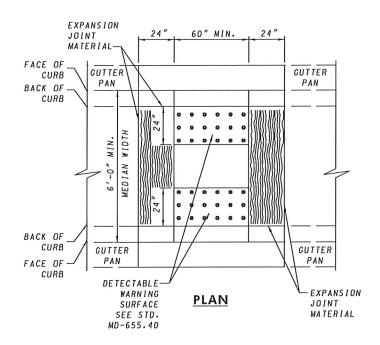


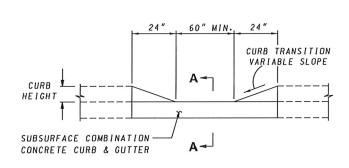
Maryland Department of Transportation STATE HIGHWAY ADMINISTRATION

STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES

SIDEWALK RAMPS COMBINATION

STANDARD NO.





DEPRESSED CURB OR COMBINATION CURB & EXPANSION JOINT GUTTER METHOD 2 MATERIAL SEE STD. MD 620.03

ELEVATION

SECTION A-A

NOTES

- 1. TO BE USED WHERE A STREET-LEVEL PEDESTRIAN CROSSING IS REQUIRED THROUGH RAISED MEDIANS OR RAISED ISLANDS AND THERE IS INSUFFICIENT WIDTH TO PROVIDE A RAMPED MEDIAN OR ISLAND OPENING (STD. MD-655.22).
- 2. EXPANSION JOINT MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD MD-655.01.
- 3. CUT-THROUGH MEDIAN AND ISLAND OPENINGS TO BE SHOWN ON PLANS SYMBOLICALLY AND REFERENCED WITH THE CENTER OF THE OPENING ALIGNED TO A STATION ON THE CONSTRUCTION CENTERLINE. SEPARATE DETAILS SHALL BE SHOWN WHERE PROPOSED OPENING VARIES FROM STANDARD METHODS.
- 4. WHERE 60" CUT THROUGHS CAN NOT BE PROVIDED A DESIGN WAIVER MUST BE REQUESTED.

SPECIFICATION
603 & 611

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APPROVAL 2-10-04 APPROVAL 3-31-04

REVISED 6-2-14 REVISED 5-20-14

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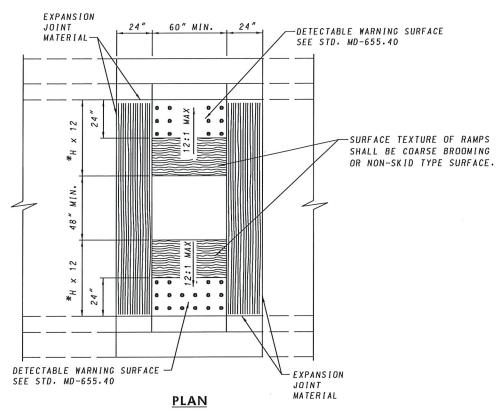
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Maryland Department of Transportation STATE HIGHWAY ADMINISTRATION

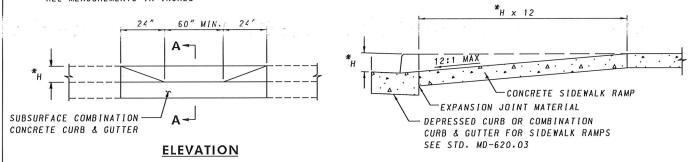
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES

CUT-THROUGH
MEDIAN AND ISLAND OPENINGS

STANDARD NO.



* - H = HEIGHT OF CURB ALL MEASUREMENTS IN INCHES



SECTION A-A

NOTES

StateHighway REVISED

- 1. TO BE USED WHERE A PEDESTRIAN ACCESS ROUTE CROSSES RAISED MEDIANS OR RAISED ISLANDS AND THERE IS SUFFICIENT WIDTH TO SATISFY THE GEOMETRY OUTLINED IN THIS STANDARD.
- 2. EXPANSION JOINT MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD MD-655.01.
- 3. RAMPED MEDIAN AND ISLAND OPENINGS TO BE SHOWN ON PLANS SYMBOLICALLY AND REFERENCED WITH THE CENTER OF THE OPENING ALIGNED TO A STATION ON THE CONSTRUCTION CENTERLINE. SEPARATE DETAILS SHALL BE SHOWN WHERE PROPOSED OPENING VARIES FROM STANDARD METHODS.
- 4. WHERE 60" OPENINGS CAN NOT BE USED A DESIGN WAIVER MUST BE REQUESTED.

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	603 & 611					
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		APPROVAL 2-10-04	APPROVAL 3-31-04			
		REVISED 6-2-14	REVISED 5-20-14			

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Maryland Department of Transportation STATE HIGHWAY ADMINISTRATION

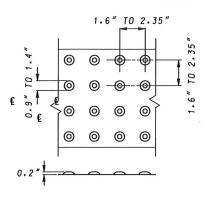
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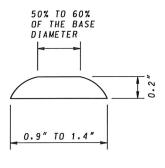
RAMPED
MEDIAN AND ISLAND OPENINGS

STANDARD NO.

MAT DETAILS

SEE PLACEMENT GUIDELINES BELOW

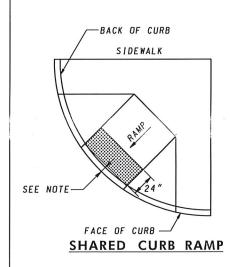


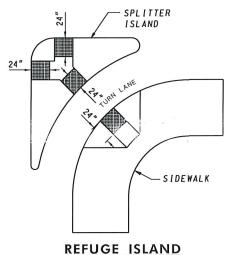


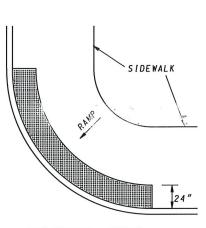
DOME SPACING

DOME SECTION

PLACEMENT GUIDELINES







BLENDED CURB

655.40

WHERE ISLANDS OR MEDIANS ARE LESS THAN 6 FEET WIDE. THE DETECTABLE WARNING SHOULD EXTEND ACROSS THE FULL LENGTH OF THE CUT THROUGH THE ISLAND OR MEDIAN

NOTES

StateHighway

- THE DETECTABLE WARNING SURFACE SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB LINE IS 6 TO 8 INCHES FROM THE FACE OF CURB.
- FOR SKEWED APPLICATIONS DETECTABLE WARNING SHALL BE PLACED SUCH THAT THE DOMES CLOSEST TO THE BACK OF CURB ARE NO LESS THAN 0.5" AND NO MORE THAN 3.0" FROM THE BACK OF CURB. TRUNCATED DOME SURFACES SHALL BE FABRICATED TO PROVIDE FULL DOMES ONLY.
- DETECTABLE WARNING SURFACE SHALL BE PAID FOR IN ACCORDANCE WITH SECTION 611 OF THE SPECIFICATIONS.
- DETECTABLE WARNING SURFACES ARE REQUIRED AT STREET CROSSING & SIGNALIZED INTERSECTIONS.

SPECIFICATION CATEGORY CODE ITEMS 611 **APPROVED** DIRECTOR - OFFICE OF HIGHWAY DEVELOPMENT SHA APPROVAL • FEDERAL APPROVAL • REVISIONS HIGHWAY ADMINISTRATION 2-10-04 APPROVAL 3-31-04 APPROVAL REVISED 4-17-06 REVISED 4-5-06

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Maryland Department of Transportation STATE HIGHWAY ADMINISTRATION

STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES

DETECTABLE WARNING SURFACES

STANDARD NO. MD