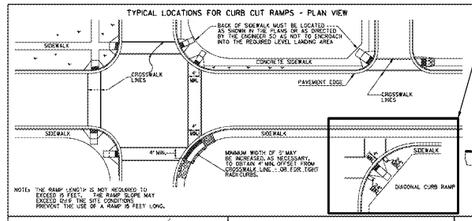
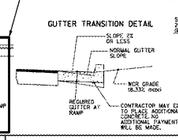
NOTE:
USE THIS DETAIL FOR INSTALLATION OF CROSSWALK.
(ALSO SEE PAVEMENT MARKING PLACEMENT DETAIL T-11A ON SHEET SI-8)

TYPICAL LOCATIONS FOR CURB CUT RAMPS - PLAN VIEW

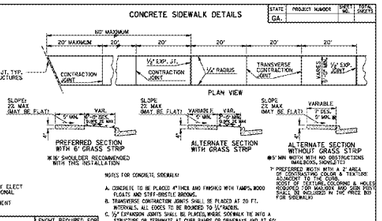


NOTE: THE RAMP LENGTH IS NOT INCLUDED TO EXCEED 15 FEET. THE RAMP SLOPE MAY EXCEED 8.3% IF SITE CONDITIONS PREVENT THE USE OF A RAMP 15 FEET LONG.

GUTTER TRANSITION DETAIL



CONCRETE SIDEWALK DETAILS



NOTES FOR CONCRETE SIDEWALK

A. CONCRETE TO BE PLACED, FINISHED AND FINISHED WITH TAMPER, WOOD FLOATS AND STIFF-BRISTLE BRUSHES.
B. TRANSVERSE CONTRACTION JOINTS SHALL BE PLACED AT 20 FT. INTERVALS. ALL JOINTS TO BE ROOVED TO 1/4" RADIUS.
C. 1/2" EXPANSION JOINTS SHALL BE PLACED WHERE SIDEWALK IS INTO A STRUCTURE OR TERMINATES AT CURB, RAMPS OR DRIVEWAYS AND AT 60' INTERVALS.

NOTES FOR CURB CUT RAMPS

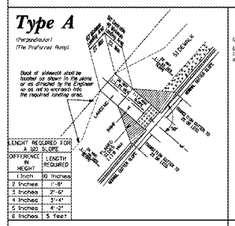
1. CURB CUT RAMPS WILL BE LOCATED AS FOLLOWS UNLESS PLANS OR CONTRACT SPECIFY OTHERWISE:
   a) AT ALL PEDESTRIAN CROSSWALKS WHERE CURB IS CONSTRUCTED OR REPLACED.
   b) WHERE THE SIDEWALK, CONCRETE OR UNPAVED, IS INTERRUPTED BY THE SLOPE AT TURNOUTS OR AT INTERSECTIONS.
   c) AT OTHER LOCATIONS SUCH AS HOSPITALS, NURSING HOMES, REST AREAS, ETC., WHERE THE CURB WOULD SYMBOLIZE BE AN OBSTRUCTION TO THE PHYSICALLY DISABLED.
2. RAMPS WILL BE CONSTRUCTED FROM CONCRETE. SPECIFICATIONS FOR RAMPS WILL BE THE SAME AS FOR CONCRETE SIDEWALK. RAMPS SHALL HAVE EITHER A ROUGH OR A TEXTURED FINISH.
3. DROP INLETS ARE NOT TO BE LOCATED DIRECTLY IN FRONT OF RAMPS. CATCH BASINS SHOULD BE LOCATED AT LEAST 10 FT. FROM RAMPS WHEN FEASIBLE.
4. WHERE RAMPS ARE LOCATED IN RADII, THE DIMENSIONS SHOWN FOR RAMP WIDTHS AND TAPERS ARE MEASURED PERPENDICULAR TO THE RAMP AND NOT ALONG THE CURVE.
5. WHERE UTILITY STRUCTURES CONFLICT WITH WHERE SIDEWALK AND GEOMETRY PERMITS, AT RAMPED INTERSECTIONS, OR IN OTHER SPECIAL CASES, THE RAMP DESIGNS MAY BE MODIFIED WITH THE APPROVAL OF THE ENGINEER. MODIFICATIONS INCLUDE THE REMOVAL OR RELOCATION OF OBSTACLES AND NO SLOPE ON THE ACCESSIBLE PART OF THE RAMP IS STEEPER THAN 10:1.
6. LIN. FT. OF CURB AND GUTTER WILL INCLUDE THE TRANSITIONED CURB IN FRONT OF THE RAMP. THE RAMP, FLARES AND TRANSITIONED CURB WILL BE PAID FOR AT THE BID PRICE FOR CURB RAMPS. NO ADDITIONAL PAYMENT WILL BE MADE FOR SAWING AND REMOVING EXISTING SIDEWALK OR CURB WHERE NECESSARY FOR RAMP CONSTRUCTION.
7. WHEN A CURB RAMP IS PLACED ON EXISTING PAVEMENT, THE PAVEMENT SHALL BE REMOVED TO PROVIDE A MINIMUM THICKNESS OF 8 INCHES OF CONCRETE AT ALL LOCATIONS. NO SEPARATE PAYMENT WILL BE MADE FOR REMOVAL OF THE PAVEMENT.
8. DETECTABLE WARNING SURFACES ARE REQUIRED ON ALL INTERSECTIONS WITH PUBLIC STREETS, SIGNALIZED COMMERCIAL DRIVEWAYS, AND COMMERCIAL DRIVEWAYS WITH 64 AADT OF 25 VPD.

This Detail Replaces Ga Standard 9031W

Guidelines for Usage On Metric Projects

When these quantity are incorporated into plans and or projects that are being prepared or constructed in metric units, exact or precise conversion to metric units is not required. The dimensions shown that are in feet and inches may be converted to approximate metric units using the following: "Hard-Metric" conversion factors, 1 inch = 25 millimeters, 1 foot = 0.3 meters, 1 yard = 0.9 meters. Rounding and squaring should be interpreted to mean those metric and square metrics.

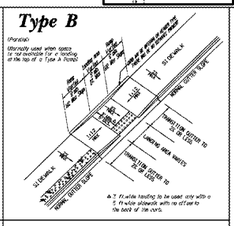
Type A
(Perpendicular)
(The Preferred Ramp)



Back of sidewalk should be located as shown in the plans or as directed by the Engineer so as not to encroach into the required landing area.

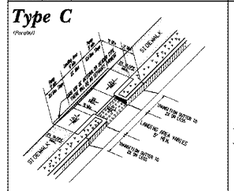
LENGTH REQUIRED FOR A 8% SLOPE	
DIFFERENCE IN HEIGHT	LENGTH REQUIRED
1 Inch	10 Inches
2 Inches	1' -8"
3 Inches	2' -6"
4 Inches	3' -4"
5 Inches	4' -2"
6 Inches	5 Feet

Type B
(Parallel)
(Normally used when space is not available for a landing at the top of a Type A Ramp)

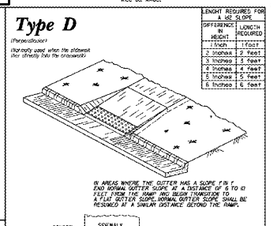


LENGTH REQUIRED FOR A 8% SLOPE	
DIFFERENCE IN HEIGHT	LENGTH REQUIRED
1 Inch	1 Foot
2 Inches	2 Feet
3 Inches	3 Feet
4 Inches	4 Feet
5 Inches	5 Feet
6 Inches	6 Feet

Type C
(Parallel)

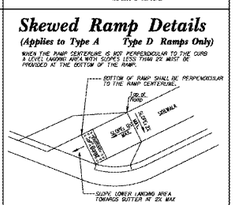


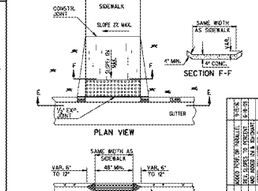
Type D
(Perpendicular)
(Normally used when the sidewalk has driveways)



Skewed Ramp Details
(Applies to Type A Type D Ramps Only)

WHEN THE RAMP CENTERLINE IS NOT PERPENDICULAR TO THE CURB A LEVEL LANDING AREA WITH SLOPES LESS THAN 2% MUST BE PROVIDED AT THE BOTTOM OF THE RAMP.





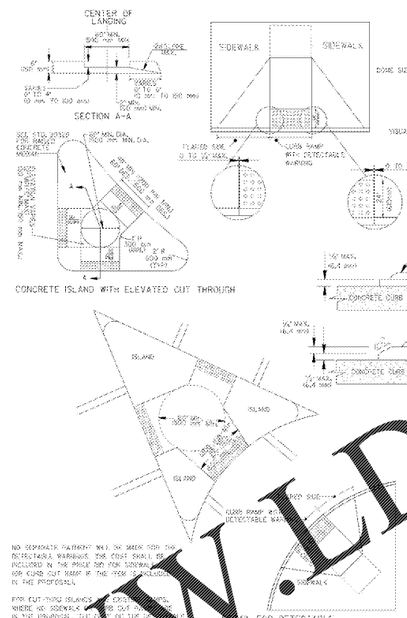
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

SPECIAL DETAIL
CONCRETE SIDEWALK DETAILS
CURB CUT (WHEELCHAIR) RAMPS

NO SCALE — MARCH 6, 2002 — NUMBER A3

CONCRETE ISLAND with ELEVATED CUT THROUGH



NO SEPARATE PAYMENT WILL BE MADE FOR THE DETECTABLE WARNINGS. THE COST SHALL BE INCLUDED IN THE PRICE BID FOR SIDEWALK IN THE PROPOSAL.

FOR CUT-THRU ISLANDS WHERE NO SIDEWALK IS CALLED OUT IN THE PROPOSAL, THE COST OF THE DETECTABLE WARNINGS SHALL BE INCLUDED IN THE OVERALL PRICE BID FOR CONCRETE ISLAND.

SIZE: DETECTABLE WARNINGS SHALL BE 24 INCHES (610 mm) IN THE DIRECTION OF PEDESTRIAN TRAVEL AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE.

LOCATION: THE DETECTABLE WARNING SHALL BE LOCATED SO THAT THE EDGE NEAREST THE RAMP LANE OR OTHER POTENTIAL HAZARD IS A 6 TO 8 INCHES (150 mm TO 200mm) FROM THE CURB LINE OR OTHER POTENTIAL HAZARD, SUCH AS A DEPARTING TRACK EDGE OR THE INTENDED EXPECTED PATH OF TRAVEL OPERATIONS.

DOME SIZE AND SPACING: TRUNCATED DOMES SHALL HAVE A BASE DIAMETER OF 0.9 INCH TO 1.4 INCH (23mm TO 36mm) AT THE BOTTOM, A DIAMETER OF 0.65 INCH TO 0.9 INCH (16mm TO 23mm) AT THE TOP, THE TOP DIAMETER SHALL BE A MINIMUM OF 50% AND A MAXIMUM OF 65% OF THE BASE DIMENSION, A HEIGHT OF 0.2 INCH (5mm) AND A CENTER-TO-CENTER SPACING OF 1.66 INCHES TO 2.4 INCHES (42mm MINIMUM MEASURED ALONG ONE SIDE OF A SQUARE ARRANGEMENT. DOMES SHALL HAVE A SQUARE ARRANGEMENT. DOMES SHALL HAVE A SQUARE ARRANGEMENT. DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN DOMES.

VISUAL CONTRAST: DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH THE ADJACENT WALKING SURFACE EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT. THE MATERIAL USED TO PROVIDE VISUAL CONTRAST SHALL BE AN INTEGRAL PART OF THE DETECTABLE WARNING SURFACE.

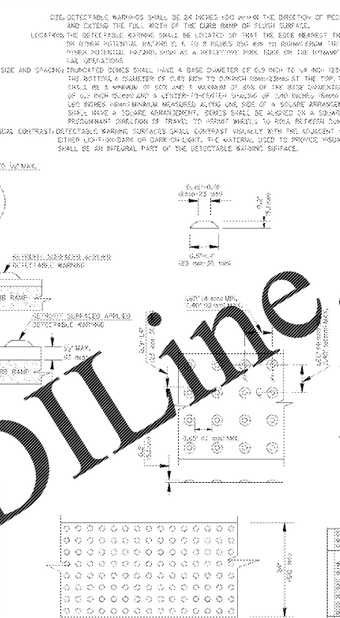
MATERIALS:
NEW CONSTRUCTION:
THE DETECTABLE WARNINGS SHALL BE MADE OF MATERIALS SPECIFIED ON SPEC 87.

RETROFIT OF EXISTING RAMPS:
SURFACE APPLIED MATERIALS WILL ONLY BE APPROVED TO BE USED ON EXISTING CONCRETE CURB RAMPS.

INSTALLATION:
TRUCK PAVERS SHALL BE SET IN A WET MORTAR BED. THE BED SHALL BE PLACED ON CONCRETE. THE CONCRETE SHALL HAVE A MINIMUM OF 8" THICK.

CERAMIC TILE SHALL BE INSTALLED [illegible] SET IN A WET MORTAR BED. [illegible] RECOMMENDED THAT THE MORTAR BED [illegible] USED TO [illegible]

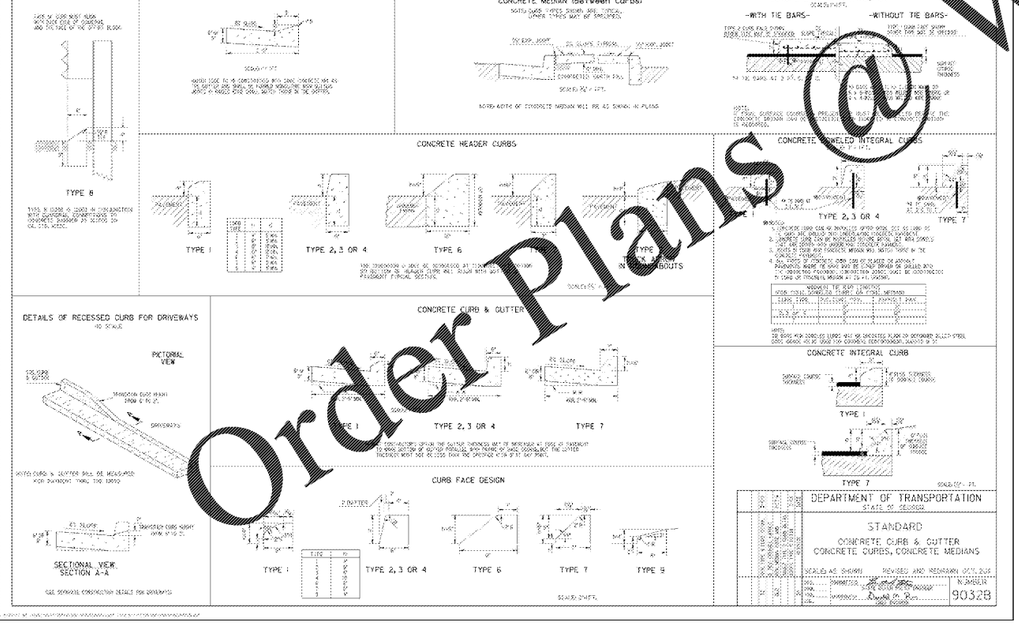
GENERAL NOTES:
1. [illegible] APPLIED MATERIALS SHALL [illegible]
2. [illegible] PEAKS OF 1/4 INCH (6mm) MAXIMUM [illegible] PERMITTED VERTICALLY ON SURFACE APPLIED MATERIALS.
3. CHANGES IN LEVEL BETWEEN SURFACE AND NEAR [illegible] ADJACENT WALKING SURFACE SHALL BE BEVELED AS WITH A SLOPE NOT STEEPER THAN 1:2



DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

SPECIAL DETAIL
DETECTABLE WARNING SURFACE, TRUNCATED DOME SIZE, SPACING AND ALIGNMENT REQUIREMENTS

NO SCALE — NUMBER A4



DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
CONCRETE CURB & GUTTER
CONCRETE CURBS, CONCRETE MEDIANS

SCALED AS SHOWN — REVISED AND REDRAWN OCT. 2005 — NUMBER 9032B

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RACETRAC PETROLEUM, INC.
200 GALLERIA PARKWAY SE
SUITE 900 ATLANTA, GA 30339
(770) 431-7600

DETAILS

RACETRAC 316@81

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Bethlehem, Georgia
Barrow County

DRAWN-BY	AGRUNER
DATE	04.26.2019
SCALE	
DRAWING NAME:	Traffic-17293.dwg
SI-5	
SHEET NO.	VERSION

NO. DATE