

inspection in a historic district area. Telephone the RHDC office at 832-7238 and commission staff will coordinate the inspection with the Inspections Department. If you

do not call for this final inspection, your Certificate of

Appropriateness is null and void.

CERTIFICATE OF APPROPRIATENESS PLACARD

for Raleigh Historic Resources

Project Description:

	Troject Description.
MULTIPLE INTERSECTIONS -	R.O.W
Address	[After-the-Fact] Alter existing sidewalk ramps to meet ADA
BOYLAN HEIGHTS	requirements:
Historic District	re-pour concrete walks;
	• install new detectible surfaces.
Historic Property	
137-14-MW	
Certificate Number	
9/18/2014	
Date of Issue	
3/18/2015	
Expiration Date	
his card must be kept pasted in a location within public iew until all phases of the described project are complete.	
he work must conform with the code of the City of Raleigh	
nd laws of the state of North Carolina. When your project	
complete, you are required to ask for a final zoning	

Pending the resolution of appeals, commencement of work is at your own risk.

Raleigh Historic Development Commission

Signature,



Development Services
Customer Service Center
One Exchange Plaza
1 Exchange Plaza, Suite 400
Raleigh, North Carolina 27601
Phone 919-996-2495
eFax 919-996-1831

	Raleigh Historic	Development Commission	- Certificate of A	ppropriateness (COA) Application
RAL Ø	Minor Work (staff review) – 1 Major Work (COA Committee Most Major Work Applica Additions Greater than 25 New Buildings Demo of Contributing Hist	copy review) – 13 copies ntions % of Building Square Footage toric Resource		For Office Use Only Transaction # \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
•	If completing by hand, please u	se BLACK INK. Do not use blue,	red, any other color,	or pencil as these do not photocopy.
Property	Street Address W. Cabar	rus Street from S	. Boylan Ave	enue to Dorothea Drive
Historic I	District Boylan Height	s		
Historic I	Property/Landmark name (If app	licable)		
Owner's	Name City of Raleigh		the state of	
Lot size NA (width in feet)		(width in feet)		(depth In feet)
	•			d, stamped envelopes to owners of all properties within he width of public streets or alleys:
Property Address			Property Address	
Cabarrus St/Boylan Av		Cabarrus St/Cutler St		
Cabarrus St/Lenoir St			Cabarrus St/South St	
				teness Committee must be submitted by 4:00 p.m. on the

Type or print the follow	owing:			
Applicant Stan Ha	arward, Transporta	ition Inspect	or Supervisor, City of Raleig	h, Public Works, Street Division
Mailing Address 10	27 N. West St			
oty Raleigh	State NC Zip Code 27603			
Date 9/2/2014	· ·	Daytime Phone	919-996-5751	
Emall Address Star	nley.harward@r	aleighnc.e	30V)	
Signature of Applican	and a contract of the contract	beneva i		
the season of th	The state of the s			
Winor Work Approval (office use only) Upon being signed and plated below by the Planning Director or designee, this application becomes the Minor Work Certificate of Appropriateness. It is valid until				
Project Categories (check all that apply): Exterior Alteration				, , , , , , , , , , , , , , , , , , , ,
		•		
Design Guidelines Please cite the applicable sections of the design guidelines (www.rhdc.org).				
Section/Page				
2/9	Public Rights	of Way		
	·		Transcondition of	

	And the conversation of the second state of the second second second second second second second second second			тов	E COMPLE CITY STAI	
		a vice		YES	NO	N/A
graphic	3-1/2 " x 11" sheets with written descriptions and drawings, photographs, and other information necessary to completely describe the project. Use the checklist below to your application is complete.	2000 Harris Office	minansi (vezane	2 to 8 g 14 g 16		
	Vork (staff review) – 1 copy Vork (COA Committee review) – 13 copies					
<u> </u>			-			
1.	Written description. Describe clearly and in detail the nature of your project. Include exact dimensions for materials to be used (e.g. width of siding, window trim, etc.)	х				
2.	Description of materials (Provide samples, if appropriate)	x				
3.	Photographs of existing conditions are required.	X				
4.	Paint Schedule (if applicable)		x			
5.	<u>Plot plan</u> (If applicable). A plot plan showing relationship of buildings, additions, sidewalks, drives, trees, property lines, etc., must be provided if your project includes any addition, demolition, fences/walls, or other landscape work. Show accurate measurements. You may also use a copy of the survey you received when you bought your property. Revise the copy as needed to show existing conditions and your proposed work.		X			
6.	Drawlngs showing proposed work					
	☐ Plan drawlngs		}			
	☐ Elevation drawings showing the new façade(s).					
	☐ Dimensions shown on drawings and/or graphic scale.	x	🏻			
	8-1/2" x 11" reductions of full-size drawings. If reduced size is so small as to be illegible, make 8-1/2" x 11" snap shots of individual drawings on the big sheet.					
7.	Stamped envelopes addressed to all property owners within 100 feet of property not counting the width of public streets and alleys. (Required for Major Work)		×			
8.	Fee (See Development Fee Schedule)		N/A			

Tully, Tania

From:

Tully, Tania

Sent:

Tuesday, September 16, 2014 4:55 PM

To:

Harward, Stanley

Cc:

Nance, George; McGee, Chris

Subject:

RE: Side Walk Step in Boylan Heights

Hi Stanley ~

Thanks for submitting the COA application for the ADA ramp modifications in Boylan Heights. Based on the photos provided it appears that the intersections already have some form of a ramp and the proposed work is either an upgrade to the existing detectable warning surface or installation of a new one. This would include re-pouring the concrete. Please confirm that I am reading this properly and that no other changes are proposed.

Thanks! Tania

Tania Georgiou Tully, Preservation Planner Long Range Planning Division Raleigh Department of City Planning 919.996.2674 919.516.2684 (fax) tania.tully@raleighnc.gov

COA process information is available here.

From: Harward, Stanley

Sent: Tuesday, September 02, 2014 11:30 AM

To: Tully, Tania

Cc: Nance, George; McGee, Chris

Subject: FW: Side Walk Step in Boylan Heights

Tania,

I am the project manager for the City's street resurfacing program. When streets are resurfaced, we must upgrade sidewalk access ramps to meet the current requirements of the Americans with Disabilities Act (ADA). W. Cabarrus Street from S. Boylan Avenue to Dorothea Drive was one of the streets we resurfaced this year which required sidewalk access ramp upgrades. The scope of work for the resurfacing project does not include removing the step at 1030 W. South Street referenced below.

I have completed and attached a Certificate of Appropriateness Application. I do not have any existing condition photographs but I did include a Word document with some Google Street View screen shots. Please contact me if you have any questions.

Stan Harward Transportation Inspector Supervisor City of Raleigh 919.996.5751 From: Donald M Davis [mailto:donaldmdavis@bellsouth.net]

Sent: Thursday, August 21, 2014 12:14 PM

To: Tully, Tania

Subject: Side Walk Step in Boylan Heights

Hi Tania,

This is just a follow-up to the issue I spoke with you about yesterday. As part of the city sidewalk repair, the step in front of 1030 S South St. is going to be removed to make the sidewalk more accessible. The repairmen told the homeowner that removing the step will also mean the removal of part of the low concrete wall that surrounds her property. The home owner would like to retain the wall. I suspect, but am not certain, that the wall is in the right-of-way. I have attached a few pictures.

The house is on the corner of W South St and W Cabarrus St.

While I am reporting things.

A tree in the right-of-way next door to me at 609 S Boylan was badly hacked a couple weeks ago. All the branches that hung over the street (and went through the utility lines) were cut off. There was no COA, nor do I think there was any permit under the city tree ordinance. I assume the landlord authorized the "trimming" since no other trees on the street have been trimmed. Parks and Rec came by the next day and took pictures and told us it was a major no-no. Presumably they are following-up.

I attached apicture of that too, although it was difficult to get a good shot of the damage.

I am not sure what is done after the fact on something like this.

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<IMG_9150.JPG>
<IMG_9151.JPG>
<IMG_9153.JPG>
<142-94-CA.pdf>
<040-00-MW curb ramps.pdf>
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Tully, Tania

From: Harward, Stanley

Sent: Wednesday, September 17, 2014 10:55 AM

To: Tully, Tania

Cc: Nance, George; McGee, Chris

Subject: RE: Side Walk Step in Boylan Heights

Attachments: PW2014-2_CabarrusStreet_SWR_Upgrades.docx

Tania,

The Google Street View screen shots I previously submitted were existing conditions prior to upgrades. The existing ramps did not meet current ADA requirements. Sidewalk ramps must now include a 2'x4' detectable warning surface with truncated domes. When I received your first email, ramp upgrades were already under construction. All locations required the placement of new concrete. Attached are pictures of the upgraded sidewalk ramp locations. Please contact me if you have any questions.

Stan Harward
Transportation Inspector Supervisor
City of Raleigh
919.996.5751
stanley.harward@raleighnc.gov

From: Tully, Tania

Sent: Tuesday, September 16, 2014 4:55 PM

To: Harward, Stanley

Cc: Nance, George; McGee, Chris

Subject: RE: Side Walk Step in Boylan Heights

Hi Stanley -

Thanks for submitting the COA application for the ADA ramp modifications in Boylan Heights. Based on the photos provided it appears that the intersections already have some form of a ramp and the proposed work is either an upgrade to the existing detectable warning surface or installation of a new one. This would include re-pouring the concrete. Please confirm that I am reading this properly and that no other changes are proposed.

Thanks! Tania

Tania Georgiou Tully, Preservation Planner Long Range Planning Division Raleigh Department of City Planning 919.996.2674 919.516.2684 (fax) tania.tully@raleighnc.gov

COA process information is available here.

PROJECT SPECIAL PROVISIONS

PW 2014-2

SECTION 2

SIDEWALK ACCESS RAMPS AND CURB AND GUTTER CONSTRUCTION

1. Work

The Contractor shall complete the work in this contract in strict accordance with City Standards. This project consists of constructing or retrofitting identified intersections with sidewalk access ramps. The location of each facility may vary due to existing catch basins, fire hydrants, poles, etc. Prior to beginning any construction, each work site shall be examined by the Contractor and the Public Works Director, at which time the Public Works Director will give specific direction as to the concrete removal limits and location of the new facility.

2. Sidewalk Access Ramps Curb and Gutter Construction

Sidewalk access ramp curb and gutter shall conform to the slopes and dimensions as indicated on the details or as directed by the Public Works Director.

Curb and gutter construction shall be accomplished, when applicable, by the use of a machine sawed cut, utilizing equipment which has been specifically designed for this purpose and approved by the Public Works Director. A smooth transition shall be provided between the gutter section and the curb section. Also all sharp edges, which were created by the cutting operations, shall be beveled. Grinding if required shall be utilized to accomplish these items. Concrete debris shall be immediately removed from the job site.

The newly cut curb shall be protected by placing reflectorized traffic cones, barrels or barricades. A minimum of two cones, one barrel or one barricade shall be utilized. The Contractor shall maintain these warning devices, along with any additional warning devices until all sidewalk construction is completed. If any asphalt patching is needed due to damage during construction, the Contractor shall be responsible for repair of these items using hot plant mixed asphalt. If pavement patching is necessary, it shall be incidental to the work and not a pay item.

Curb and gutter which cannot be adequately cut utilizing specialized equipment as noted above shall be removed and replaced by conventional methods. Payment for this item shall include removal, disposal and replacement of new curb and gutter in accordance with the specified slopes, dimensions, etc.

Curb and gutter removal and replacement in areas other than access ramps shall be constructed in accordance with City Standards and shall be of the same type as adjacent curb and gutter.

3. Sidewalk Removal

The Contractor shall be advised that when a portion of any area of concrete sidewalk must be removed, all areas to be removed shall be defined by a machine sawed joint before removal.

Disposal of all waste material from construction sites shall be made in strict accordance with all City ordinances pertaining to disposal of construction waste. It shall be the responsibility of the Contractor to secure the necessary permits and provide all information required to secure said permits. The Contractor shall designate the disposal site prior to beginning construction, and in the event waste material is to be disposed of on private property, a letter from the property owner shall be furnished to the Public Works Director granting the Contractor or their agent such permission and listing the requirements made by the property owner or the Contractor, if any.

The Contractor shall not use the right-of-way for storage of equipment or materials, etc.

4. Sidewalk Access Ramps

Sidewalk access ramps shall be constructed in accordance with City of Raleigh Standard Details which are incorporated into the contract documents. Sidewalk access ramps shall be Single Type N-1A or R-1 and Double Type N-2, N-3, or N-3A at the majority of locations. Types N-2 and N-3 shall utilize flared wings as illustrated in Type N-1A. Existing curb cuts will be utilized where possible. Pay limits are identified on the details however the shaded gutter section of the details will be paid at the curb and gutter removal / replacement rate when applicable. Sidewalk removal and replacement within the pay limits shall be included in the concrete sidewalk access ramp unit rate. Sidewalk removal and replacement outside the pay limits will be paid at the appropriate contract unit rate,

Some locations will require retro-fitting existing sidewalk access ramps with a 2' x 4' detectable warning surface panel. Construction shall include sawing an area at least 2'6" x 4'6" in the existing ramp. Concrete shall be removed and excavated to a depth of 6". A ½ inch expansion joint will be required where new concrete abuts existing concrete. New concrete shall be placed with a 2' x 4' cast-in-place detectable warning surface imbedded into the fresh concrete. New concrete area shall include up to 2.5 square yards. Any additional concrete shall be paid at the 4" or 6" sidewalk replacement rate as applicable.

The detectable warning surface for new and retro-fit ramps shall be cast-in-place and approved by the North Carolina Department of Transportation.

5. Subcontractors

The Contractors (bidders) are advised that subcontractors will be limited to a maximum of 50 percent (50%) of this contract. The successful bidder shall abide by the requirements set forth in Article 37 Subcontractors of the General Conditions.

6. Traffic Control

In addition to items set forth in the General Conditions, Articles 44 and 59, the Contractor shall provide adequate reflectorized barrels, barricades and traffic cones as directed by the Public Works Director, to protect the traveling public as well as pedestrian traffic. In addition, the Contractor will install sidewalk closed signs at every location in which the construction activity may interfere with pedestrian traffic.

7. Granite Curb

The Contractor shall reshape the granite curb, in place, to the grade required by the detail drawings. This work will involve sawing, and or grinding to achieve the desired grade and a texture consistent with the original granite curb.

8. Measurement and Payment

Sidewalk Removal will be measured and paid in square yards, measured along the surface of the actual sidewalk removed. Such price includes, but is not limited to, sawing the existing sidewalk, excavating, removal, disposal, backfilling, seeding, and mulching.

4" Sidewalk Replacement will be measured and paid in square yards, measured along the surface of the completed and accepted work. Such price includes, but is not limited to, forming, furnishing and placing concrete, finishing, constructing and sealing joints, backfilling, seeding, and mulching.

6" Sidewalk Replacement will be measured and paid in square yards, measured along the surface of the completed and accepted work. Such price includes, but is not limited to, forming, furnishing and placing concrete, finishing, constructing and scaling joints, backfilling, seeding, and mulching.

Sawcut and Removal of Concrete Curb will be measured and paid in linear feet, measured along the surface of the top of the concrete curb. Such price includes sawing the existing curb, removal of debris, and beveling or grinding sharp edges.

Sawcut and Removal of Granite Curb will be measured and paid in linear feet, measured along the surface of the top of the granite curb. Such price includes sawing the existing curb, removal of debris, and beveling or grinding sharp edges.

Curb and Gutter Removal / Replacement will be measured and paid in linear feet, accepted in place. Measurement will be made along the surface of the top of the curb. Such price includes sawing the existing curb and gutter, removal of debris, forming, furnishing and placing concrete, finishing, constructing and sealing joints, backfilling, seeding, and mulching.

Concrete Sidewalk Access Ramps will be measured and paid in units of each. Ramps shall be constructed in accordance with the Standard Details. Pay limits are identified on the Standard Details and in Section 4. Single ramps shall be paid as 1 unit and double ramps shall be paid as 2 units. Such price includes, but is not limited to, sawing the existing sidewalk or driveway, removal and disposal of sidewalk, excavating; forming, furnishing and placing concrete, furnishing and installing detectable warning surface, constructing and sealing joints, backfilling, seeding, and mulching.

Retro-Fit Detectable Warning Surface will be measured and paid in units of each. Ramps shall be constructed as described in Section 4. Such price includes, but is not limited to, sawing the existing ramp, removal and disposal of concrete, excavating, furnishing and placing concrete, furnishing and installing detectable warning surface, constructing and sealing joints, and removal of debris.

SIDEWALK ACCESS RAMPS SPECIFICATIONS

 North Carolina General Statute 136-44.14 requires that all street curbs being constructed or reconstructed for maintenance procedures, traffic operations, repairs, corrections of utilities, or altered for any reason after September 1, 1973 shall provide sidewalk access ramps for the physically handicapped at all intersections where both curb and gutter and sidewalks are provided and at the other points of pedestrian flow.

In addition, Section 228 of the 1973 Federal Aid Highway Safety Act requires provision of curb ramps on any curb construction after July 1, 1976 whether a sidewalk is proposed initially or is planned for a future date.

The Americans with Disabilities Act (ADA) of 1990 extends to individuals with disabilities comprehensive civil rights protections similar to those provided to persons on the basis of race, sex, national origin, and religion under the civil rights act of 1964. The adopted curb ramps have been designed to comply with Title III of the ADA that became effective on January 26, 1992.

City of Raleigh standard curb ramps have been developed in accordance with the Americans with Disabilities Act (ADA) and Public Right of Way Access Guidelines (PROWAG).

- Sidewalk access ramps shall be provided at locations as shown on the plans or as directed by the Public
 Works Director. Sidewalk access ramps shall be located as indicated in these details; however, the location
 may be adjusted as directed by the Public Works Director where existing light poles, fire hydrants, drop
 inlets, etc. affect placement.
 - The Contractor shall at no time remove any street sign without prior approval from the Public Works Director.
- Subgrade Preparation: The subgrade for sidewalks and access ramps shall be formed by excavating to the
 required depth, shaped to the proper cross-section, and shall be thoroughly compacted by rolling or tamping
 before placing any concrete.
- 4. <u>Forms</u>: Forms used in constructing sidewalks shall be of wood or metal, of the full depth of the concrete, straight, free from warp, and of sufficient strength, and/or of a flexible material pre-approved before construction by the Public Works Director as to allow for narrowing, mounding, and curving of walks. They shall be staked securely enough to resist the pressure of the concrete without springing.
 - If of wood, they shall be of two (2) inch surfaced plank. All forms shall be subject to the approval of the Public Works Director. All wood forms shall be thoroughly wetted and metal forms oiled before placing concrete. All forms shall be thoroughly cleaned before re-use.
- 5. <u>Placing Concrete</u>: No concrete shall be placed until the forms and subgrades have been approved by the Public Works Director. The subgrade shall be thoroughly wetted and the concrete shall be placed thereon in one course to the required depth. The concrete shall be consolidated and struck off with a template to the required grade and cross section.
- 6. <u>Joints</u>: Contraction joints shall be provided uniformly to separate the slab and shall be cut in a straight line to a depth equal to at least one-third (1/3) of the total slab thickness. The joint shall be not less than one-eight (1/8) inch no more than one-forth (1/4) inch in width.
- 7. Finishing: After the freshly poured concrete has been brought to at the established grade, it shall be floated to produce a surface free from irregularities. The final surface shall be obtained by troweling with a steel trowel or hand float and brushing lightly with a light weight brush in a transverse direction so as to produce a uniform gritty surface of the proper texture. All edges and joints shall be rounded to one-fourth (1/4) of an inch.
- 8. <u>Cold Weather Pouring</u>: Concreting operations shall not be undertaken or continued when the surrounding air temperature is below 40°F or the local weather reports indicate the possibility of temperatures of 32°F or lower within the ensuing 24 hours unless provisions are made to insulate or heat the concrete in a manner satisfactory to the Public Works Director. In any event, the Contractor shall plan and protect his/her work in a manner which will assure satisfactory results. Any concrete damaged by freezing shall be removed and replaced by the Contractor at his/her own expense.

Concrete, when deposited in the forms, shall have a temperature of not less than 50°F nor more than 90°F. The concrete shall be maintained at a temperature of not less than 50°F for a period of at least 72 hours in the case of normal concrete or 24 hours when high early cement is used. Concrete shall not be deposited on a frozen subgrade.

The North Carolina Department of Transportation Standard Specifications for Roads and Structures, Latest Edition Section 420-7 "Placing Concrete in Cold Weather" (A), (B), and (C) will be strictly adhered to for this alternate, unless directed by the Public Works Director.

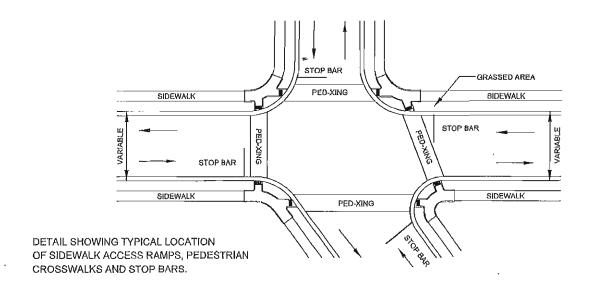
9. Removal of Forms and Backfilling: After the concrete has set sufficiently the forms shall be removed and the spaces on both sides shall be immediately backfilled with suitable earth, uniformly spread and compacted. The areas between the curb and sidewalk and immediately back of the sidewalk shall be left in a smooth, neat, and workmanlike condition. When necessary the backfill material will be sloped further to account for change in slope or grade as directed by the Public Works Director.

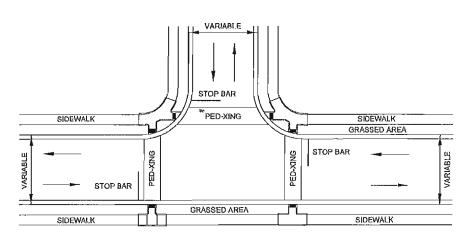
Special attention shall be given in the seeding and mulching in the established areas. Lawn quality care shall, be taken and appropriate seed used to match existing lawn types on a lot per lot basis. Seeding, mulching, and seedbed preparation shall be approved by the Public Works Director prior to acceptance and payment. Backfilling, seeding and mulching is considered incidental to the completion of the sidewalk access ramp and as such no separate pay item is included.

10. Removal of Defective/Damaged Work: The Public Works Director shall have the authority to and shall require the removal of any sidewalk laid under these specifications which does not conform to the requirements as set forth herein or existing sidewalk damaged by the Contractor. Upon notification by the Public Works Director, the Contractor shall take immediate action to correct the faulty work, or damaged work, at the Contractor's own expense.

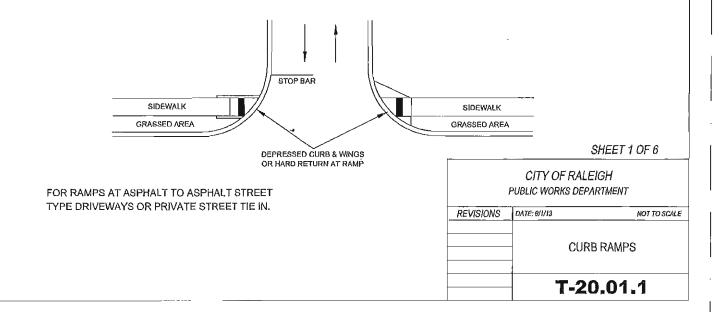
11. Construction Water:

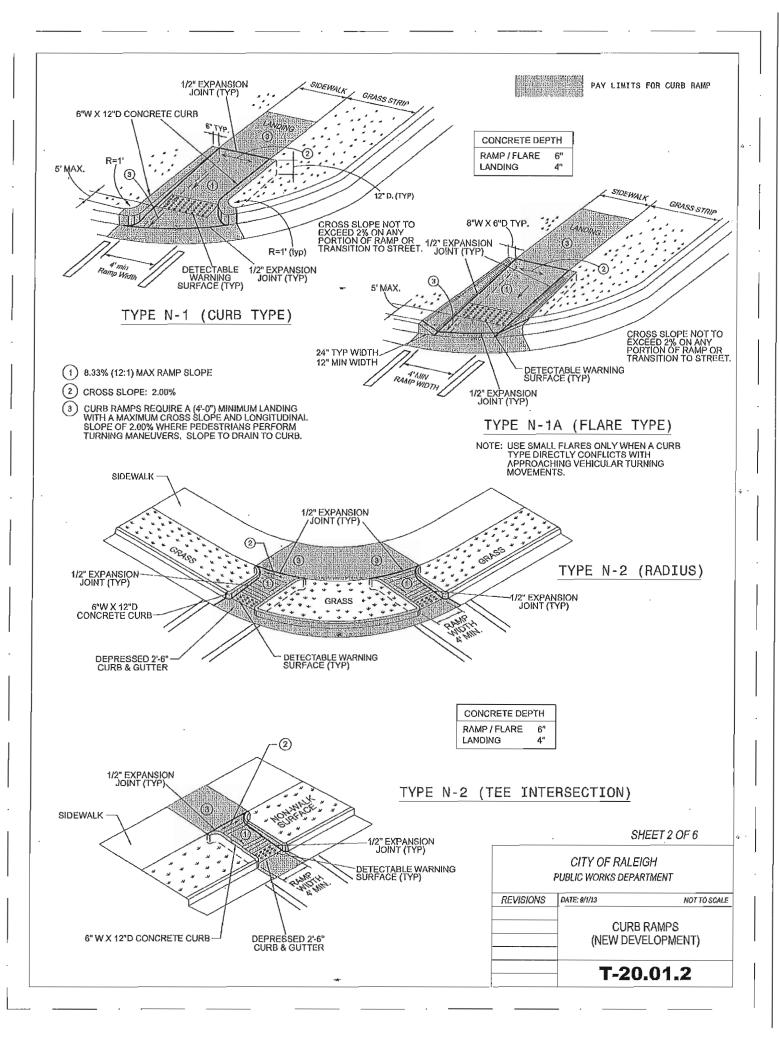
- A. Contractors are responsible for securing adequate construction water for their job sites.
- B. All construction water usage must be metered and will be billed to the Contractor. The Contractor must contact the Public Utilities Department, Meter Services Division (250-2737) to make the applicable arrangements for billing the water usage. The Contractor may not provide his/her own meter. Upon advance notice to the Public Utilities Department, a meter equipped with a backflow device can be rented at the expense of the Contractor.
- C. Construction water for all City contract projects shall be billed by the City of Raleigh, Public Utilities Department.
- D. Contractors must furnish the following information for water usage.
 - 1. Meter location and project name.
 - 2. Address where applicable and responsible party name.
 - 3. Duration of use and frequency of meter reading.





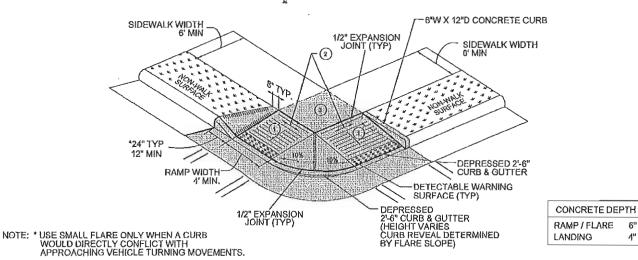
DETAIL SHOWING TYPICAL LOCATION OF SIDEWALK ACCESS RAMPS PEDESTRIAN CROSSWALKS AND STOP BARS FOR TEE INTERSECTION.





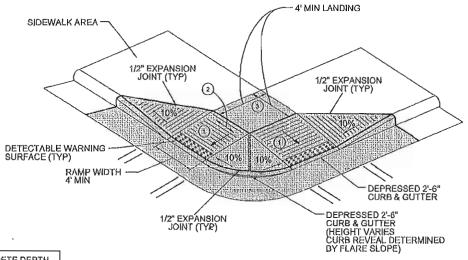
6"





TYPE N-3

- (1) 8.33% (12:1) MAX RAMP SLOPE
- CROSS SLOPE: 2.00%
- CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS, SLOPE TO DRAIN TO CURB.



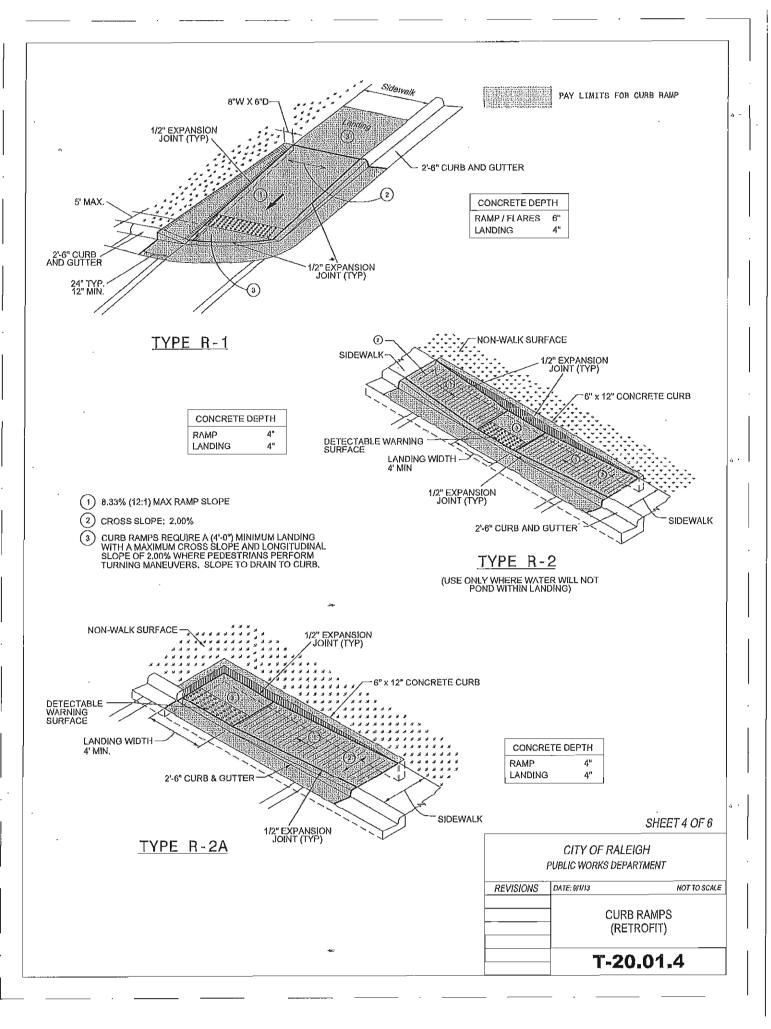
CONCRETE DEPTH RAMP / FLARE LANDING

TYPE N-3A (COMMERCIAL/RETAIL USE) SHEET 3 OF 6

CITY OF RALEIGH PUBLIC WORKS DEPARTMENT

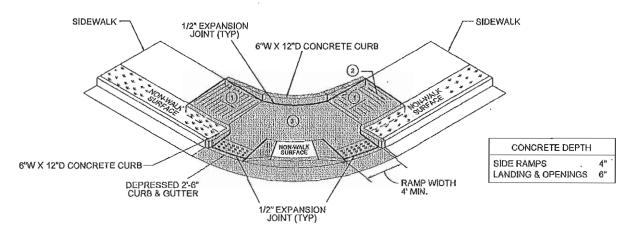
REVISIONS	DATE: 9/1/13	NOT TO SCALE
	SIDEWALK RAM	
_	T 00	04.0

1-20,01,3



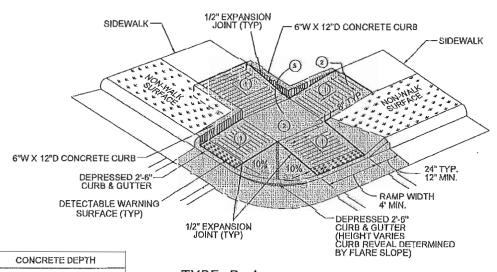


PAY LIMITS FOR CURB RAMP



TYPE R-3

- 1) 8,33% (12;1) MAX RAMP SLOPE
- (2) CROSS SLOPE: 2.00%
- CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2,00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.



SIDE RAMPS LANDING & CURB RAMPS TYPE R-4

SHEET 5 OF 6

CITY OF RALEIGH PUBLIC WORKS DEPARTMENT			
REVISIONS	DATE: 0/1/13 NOT TO SCALE		
	CURB RAMPS (RETROFIT)		

T-20.01.5

CITY OF RALEIGH CURB RAMPS GENERAL NOTES

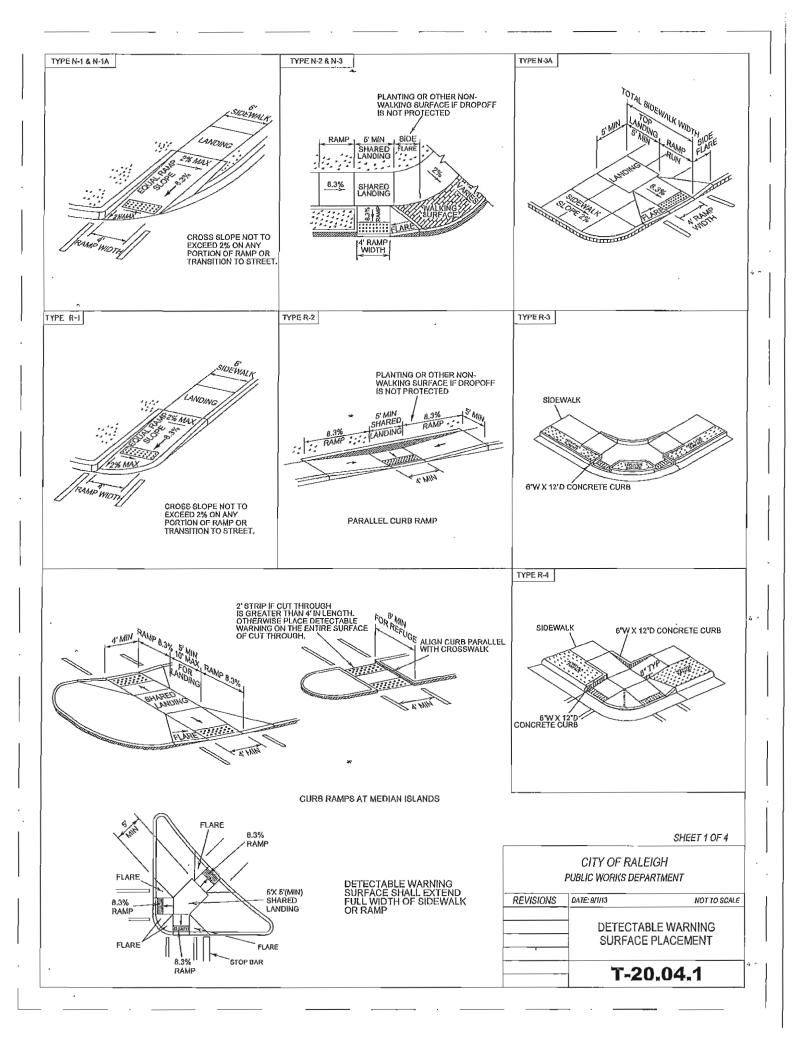
- CITY OF RALEIGH STANDARD CURB RAMPS HAVE BEEN DEVELOPED IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA) AND PUBLIC RIGHT OF WAY ACCESS GUIDELINES (PROWAG).
- CURB RAMPS SHALL BE PROVIDED AT LOCATIONS AS SHOWN ON THE PLANS
 OR AS DIRECTED BY THE ENGINEER. SIDEWALK ACCESS RAMPS SHALL BE LOCATED AS
 INDICATED IN THE DETAIL, HOWEVER, THE LOCATION MAY BE ADJUSTED IN COORDINATION WITH
 THE CITY OF RALEIGH WHERE EXISTING LIGHT POLES, FIRE HYDRANTS, DROP INLETS, ETC. AFFECT
 PLACEMENT.

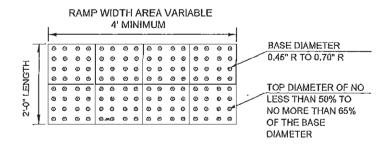
DOUBLE WHEELCHAIR RAMPS ARE TO BE INSTALLED AT ALL PUBLIC STREET INTERSECTIONS WHERE SIDEWALK IS REQUIRED.

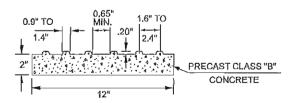
- 3. THE WALKING SURFACE SHALL BE SLIP RESISTANT, COLORS FOR THE DETECTABLE WARNING AREA SHALL BE DARK CHARCOAL GRAY FOR CONTRAST WITH LIGHT PATHWAY COLORS AND LIGHT CONCRETE GRAY FOR CONTRAST WITH DARK PATHWAY COLORS.
- NO SLOPE ON THE SIDEWALK ACCESS RAMP SHALL EXCEED 1"/FT (12:1) IN RELATIONSHIP TO THE GRADE OF THE STREET.
- IN NO CASE SHALL THE WIDTH OF THE SIDEWALK ACCESS RAMP BE LESS THAN 48" HOWEVER, RAMP MAY EXCEED 48".
- USE CLASS A (3000 PSI) CONCRETE WITH A SIDEWALK FINISH IN ORDER TO OBTAIN A ROUGH NONSKID SURFACE,
- 7. A 1/2" EXPANSION JOINT WILL BE REQUIRED WHERE THE CONCRETE SIDEWALK ACCESS RAMP JOINS THE CURB AND ALSO WHERE NEW CONCRETE ABUTS EXISTING CONCRETE.
- 8. CURB RAMPS SHOULD BE PLACED PARALLEL TO THE DIRECTION OF TRAVEL,

SHEET 6 OF 6

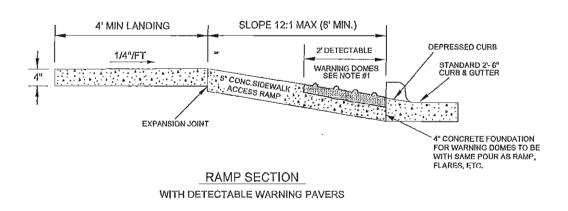
	CITY OF RA PUBLIC WORKS DI	
REVISIONS	DATE: 9/1/13	NOT TO SCALE
	CURB	RAMP NOTES
	T-2	20.01.6







DETECTABLE WARNING DOMES CONCRETE PAVER

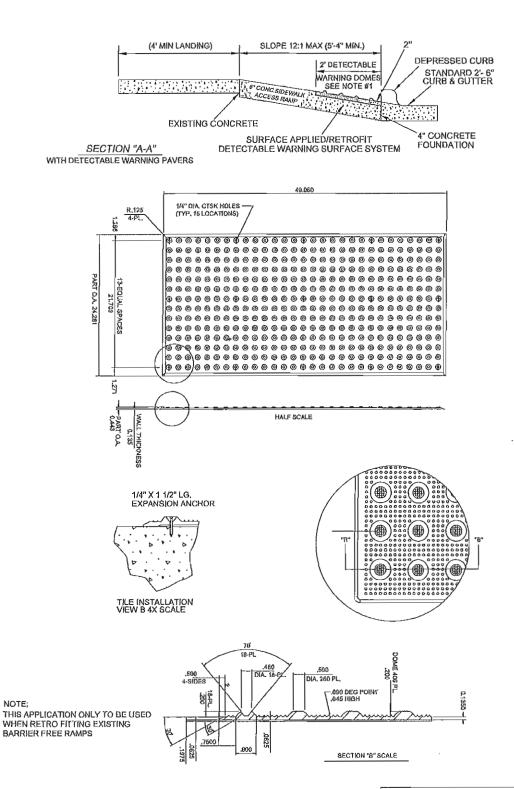


NOTES:

- 1, DETECTABLE WARNING DOMES SHALL COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON DETAIL. SIZE OF PAVER SHALL BE 1' X 1'.
- 2. OBTAIN 70% CONTRAST VISIBILITY WITH ADJOINING SURFACE, EITHER LIGHT ON DARK, OR DARK ON LIGHT SEQUENCE COVERING THE DETECTABLE WARNING AREA.

SHEET 2 OF 4

	CITY OF RALE	
REVISIONS	DATE: 0/1/13	NOT TO SCALE
		E WARNING PAVERS
	T-20	.04.2



SHEET 3 OF 4

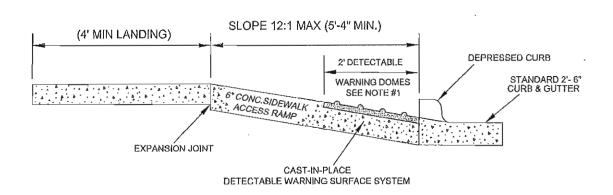
NOTES:

- 1. DETECTABLE WARNING DOMES SHALL COVER 2:-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON DETAIL.
- OBTAIN 70% CONTRAST VISIBILITY WITH ADJOINING SURFACE, EITHER LIGHT ON DARK, OR DARK ON LIGHT SEQUENCE COVERING THE DETECTABLE WARNING AREA.

CITY OF RALEIGH
PUBLIC WORKS DEPARTMENT

TOBLIC WORKS DELYKLIMENT				
REVISIONS	DATE: 8/1/13	NOT TO SCALE		
	DETECTABLE WARNING SURFACE, SURFACE APPLIED (RETROFIT ONLY)			
	T-2	0.04.3		

RAMP SECTION WITH DETECTABLE WARNING SURFACE CAST-IN-PLACE SYSTEM



SHEET 4 OF 4

NOTES:

- 1. DETECTABLE WARNING DOMES SHALL COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON DETAIL.
- OBTAIN 70% CONTRAST VISIBILITY WITH ADJOINING SURFACE, EITHER LIGHT ON DARK, OR DARK ON LIGHT SEQUENCE COVERING THE DETECTABLE WARNING AREA.

CITY OF RALEIGH PUBLIC WORKS DEPARTMENT			
REVISIONS	S DATE: 9/1/13 NOT TO SCALE		
	DETECTABLE WARNING CAST-IN-PLACE		

T-20.04.4

CABARRUS ST/BOYLAN AV, NW



CABARRUS ST/BOYLAN AV, NW



CABARRUS ST/BOYLAN AV, SW



CABARRUS ST/BOYLAN AV, SW



CABARRUS ST/CUTLER ST, NE



CABARRUS ST/CUTLER ST, NE



CABARRUS ST/CUTLER ST, NW



CABARRUS ST/CUTLER ST, NW



CABARRUS ST/CUTLER ST, SE



CABARRUS ST/CUTLER ST, SE



CABARRUS ST/CUTLER ST, SW



CABARRUS ST/CUTLER ST, SW



CABARRUS ST/LENOIR ST, NE



CABARRUS ST/LENOIR ST, NE



CABARRUS ST/LENOIR ST, NW



CABARRUS ST/LENOIR ST, NW



CABARRUS ST/LENOIR ST, SE



CABARRUS ST/LENOIR ST, SE



CABARRUS ST/LENOIR ST, SW



CABARRUS ST/LENOIR ST, SW



CABARRUS ST/SOUTH ST, SW



CABARRUS ST/SOUTH ST, SW



CABARRUS ST/SOUTH ST, SE



CABARRUS ST/SOUTH ST, SE

