



South Carolina
Department of Transportation

Superseded by
Instructional Bulletin 2015-1

February 27, 2013

INSTRUCTIONAL BULLETIN NO. 2013-1

SUBJECT: Pedestrian Ramp Construction
EFFECTIVE DATE: June 2013 Letting
SUPERSEDES: None
RE: Standard Drawings 720-9xx-xx

PAY ITEMS:

2023000	Removal and Disposal of Existing Pavement	SY
7206000	Concrete Median	SY
7209000	Pedestrian Ramp Construction	SY
7209100	Surface Applied Detectable Warning	SF

These pay items are available in order to quantify the additional labor, formwork and hand work associated with the construction of pedestrian ramps. The designer should continue to calculate quantities for sidewalk, curb, and gutter as directed, however these new ramp quantities will be measured in the field and paid for as shown in the Standard Drawings.

Use this method to calculate bid quantities for all projects.

Plan Quantity calculations for Removal and Disposal of Existing Pavement:

Calculate removal and disposal of existing pavement for locations where existing sidewalk or pavement must be removed in order to construct a new pedestrian ramp. Calculate *r* = the number of ramps that require removal of concrete sidewalk. Multiply *r* by 25 SY to determine the additional plan quantity for Removal and Disposal of Existing Pavement. The total plan quantity for removal and disposal of existing pavement should be added to any quantity determined for other work on the project.

$$\text{Plan Quantity for Removal and Disposal of Existing Pavement} = r \times 25 \text{ SY}$$

Plan Quantity calculations for Pedestrian Ramp Construction:

Calculate *n* = the number of pedestrian ramps that will use newly placed concrete. The value for *n* should include all new ramp locations AND all locations where existing sidewalk will be removed (*r*). Multiply *n* by the average area of pedestrian ramp construction (estimated as 25 SY) to determine the plan quantity for pedestrian ramp construction. The Pedestrian Ramp Construction quantity includes all work necessary to construct the ramp including Detectable Warning Surfaces.

$$\text{Plan Quantity for Pedestrian Ramp Construction} = n \times 25 \text{ SY}$$



Plan Quantity calculations for Surface Applied Detectable Warning:

Note that the pay item associated with this number will only be present on projects with crossings through raised medians or when existing ramps only need the application of detectable warning material. Do not calculate this quantity for any ramp included in the *n* quantity above.

Calculate *m* = the number of pedestrian crossings into refuge islands + any ramps where only warning surface will be applied. Multiply *m* by 10 SF to determine the plan quantity for Surface Applied Detectable Warnings.

Plan Quantity for Surface Applied Detectable Warning = *m* x 10 SF

If present, measure concrete median as directed in the Standard Specifications.

Implementation Schedule:

For all projects letting in June 2013 or later, follow these procedures for pedestrian ramp quantities.



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ec:

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