

THE CITY OF EDINBURG

2014 STANDARDS MANUAL



CONSTRUCTION & DEVELOPMENT REQUIREMENTS

DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
415 W. UNIVERSITY DR.
EDINBURG, TEXAS 78541
(956) 388-8210

UTILITIES DEPARTMENT
415 W. UNIVERSITY DR.
EDINBURG, TEXAS 78541
(956) 388-8212

ADOPTED BY CITY COUNCIL ON OCTOBER 01, 2007
REVISION NO. 8 APPROVED APRIL 15, 2014

7. Turnouts shall be paved to the property line with turnouts not less than 20 feet wide.
8. Must be the same length as the blocks that provide frontage to the lots that the alleys serve.
9. No dead-end alley shall be permitted.
10. No cul-de-sac alley shall be permitted.

J. Curb and Gutter

1. All streets shall be constructed with standard concrete curb and gutter as shown in the street standards and detailed in this section;
2. Where the Director of Public Works has determined that a rural section is adequate given the existing conditions of adjacent streets, the developer must provide for the escrow deposit of the curb and gutter in lieu of construction.
3. May be required to prevent erosion of the pavement section.

K. Sidewalks

1. A sidewalk plan shall be submitted with the preliminary plat, development plat, and minor plat application and with the building permit application for un-platted property.
2. A sidewalk permit shall be filed with and reviewed for approval by The Director of Public Works in accordance with permit requirements in Chapter 98 of the Code of Ordinances.
3. Sidewalks should be constructed concurrent with street construction with special provisions to protect their condition and integrity during the process of building construction, unless the Planning and Zoning Commission allows otherwise under the following conditions:
 - a. Sidewalk segments across individual lots will be constructed after buildings are constructed on the individual lots, but before they are occupied; and
 - b. The timing and phasing of development will result in the completion of sidewalks on each street segment within 2 years of the date that building construction on the street segment is commenced.
4. Sidewalk requirements may be altered or waived if a sidewalk plan that provides equal or greater pedestrian circulation is submitted to and approved by the Planning and Zoning Commission under the following conditions:
 - a. In suburban estate developments to allow off-street trails in lieu of sidewalks, thereby meeting the needs of walker and cyclists; or
 - b. In order to implement the City's Parks and Recreation Master Plan.

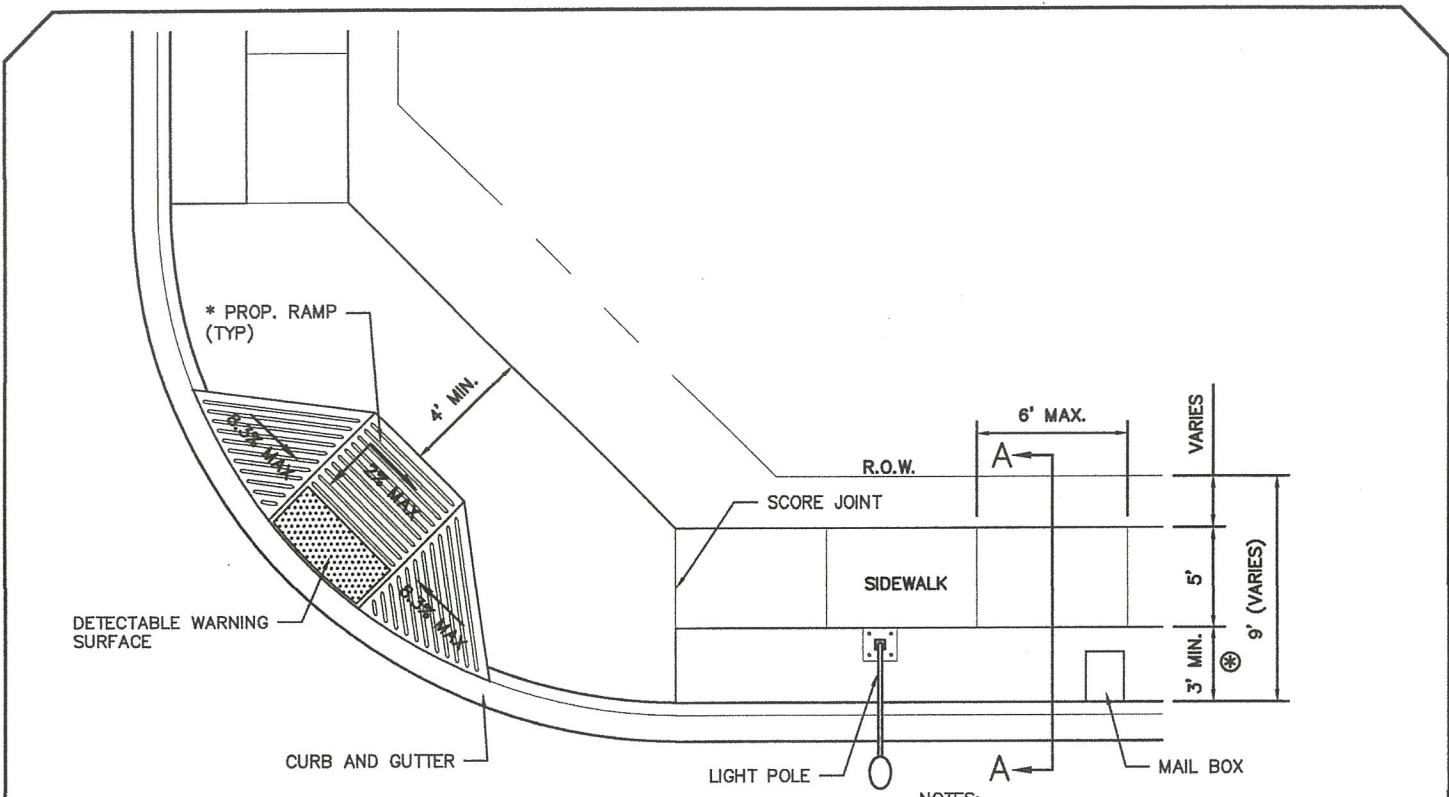
5. Design Criteria The following design criteria shall be applicable to 5-foot and 6-foot concrete sidewalk designs and as shown in the standard details.
- a. Sidewalk Width:
 - i. Along Minor Residential, Residential Collector: 5-foot
 - ii. Along Collector, Minor Arterial, Arterial, Principal Arterial, High-speed Principal Arterial and Freeway: 6-foot
 - b. Sidewalks must be provided in the area between the parkway and the edge of the right-of-way as shown in the in the standard details of this section.
 - c. Sidewalks may meander into the parkway to protect the root system of a mature tree, provided that no sidewalk may be located closer than three feet to the back of curb or edge of pavement if no curb is present.
 - d. Sidewalks shall also be installed in any pedestrian easements as may be required by the Planning Department - Unified Development Code (UDC).
 - e. Sidewalk alignment must match existing alignment in area or be set a minimum of 3-foot from back of curb.
 - f. Sidewalk shall slope from the backside toward the street with a maximum transverse slope of ¼ inch per foot (2%), 1-inch above the top of curb, and a maximum longitudinal slope of ½ inch per foot (5%).
 - g. Sidewalks and ramps shall be constructed of 4" thick concrete (3000 psi) reinforced with 6" x 6" No. 6 gage wire mesh, and No. 3 bars @ 12" on center each way (OCEW) or No. 4 @ 18" OCEW.
 - h. Bar-lift Plastic Chairs or approved equal shall be used exclusively to secure steel at center of concrete thickness.
 - i. Subgrade and 2" sand cushion shall be compacted to 90% standard proctor.
 - j. Contraction joints shall be scored every 6 feet and expansion joints every 30 feet.
 - k. Sidewalk shall have a non-slip broom finish transverse to the walkway. **Exposed aggregate concrete shall not be permitted.**
 - l. Brick paver, tile, decorative or stamped concrete are not permitted within the right of way or within access easements for private streets except as follows:
 - i. Sidewalks leading to the entrance of the residence (permit required).
 - ii. Driveway leading to garage entrances of the residence (permit required).

- m. Any permitted stained/colored decorative or stamped concrete must have color additive included in the mixture process. *Painted concrete shall not be permitted.*
- n. All concrete shall be 5-sack concrete and shall have a minimum compressive strength of 3000 psi at 28-days.
- o. Membrane curing compound shall be applied at a minimum of 1 gallon pre 180 square feet of area.
- p. Handicap Ramps shall be place at all intersection with roadways or where required by State or Federal Law.
- q. Flatwork is required to meet Texas Accessibility Standards (Texas Civil Statutes, Article 9102)
- r. No admixtures to the concrete mix (i.e. fibermesh, plasticizers, etc.) shall be allowed without approval from the Director of Public Works.

2.03 Street Geometrics

A. Street Intersections

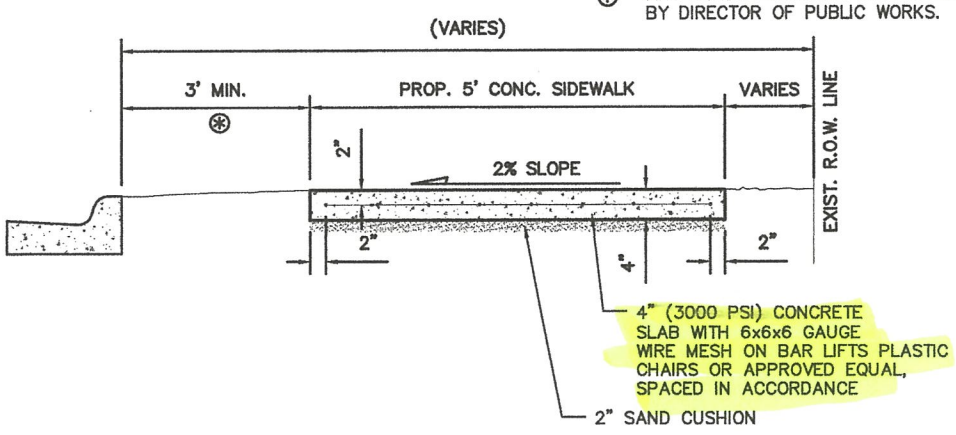
1. Intersection of more than two streets at one point is prohibited.
2. Streets shall intersect one another at approximately 90 degree angle.
3. No intersection of streets at angles less than 75 degrees shall be approved.
4. Offset street intersections shall be separated by a minimum centerline to centerline offset dimension of 150 feet.
5. The centerline to centerline distance may be reduced to no less than 75 feet if the Director of Public Works determines that the proposed offset will provide for comparable safety and efficiency of traffic movement, taking into consideration the existing and planned functional classification of the streets.
6. Variances by the Planning and Zoning Commission with regard to the angle of intersections may be granted giving due regard to terrain, sight distances, and safety *as recommended by the Director of Public Works*. A minimum of 25 feet radius shall be required at all approved acute angle intersections.
7. Subdivision Entrance Way
 - a. Subdivision entranceways that have a Minor Residential or Residential Collector street intersecting with an Arterial, or a street of higher classification, shall require the following:
 - i. A minimum of 80 feet (ROW) in width by 140 feet in length;
 - ii. Shall accommodate one entrance and two exit lanes;



* NUMBER RAMPS AND RAMP TYPES MAY VARY WHERE PROPOSED.

PLAN VIEW

- NOTES:
1. SCORE JOINTS 1/4" THICKNESS OF SIDEWALK
 2. EXPANSION JOINT EVERY 30'
 3. JOINT IN CENTER OF SIDEWALK IF OVER 15' WIDE.
- ⊕ ANY OTHER DEVIATION SHOULD BE APPROVED BY DIRECTOR OF PUBLIC WORKS.



SECTION A-A

TYPICAL CONCRETE SIDEWALK DETAIL

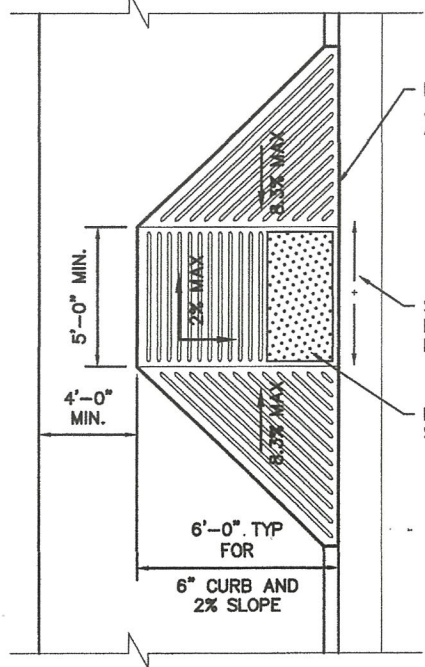
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CONCRETE SIDEWALK
DETAILS

THE CITY OF
EDINBURG
PUBLIC WORKS DEPARTMENT

SCALE: N.T.S.	REVISED: IP/PNL
DATE: APRIL, 2014	DRAWN BY: RMM



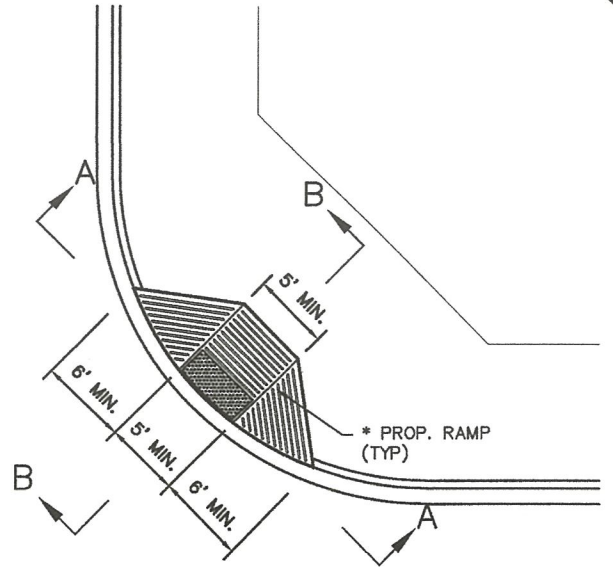
PLAN VIEW

DETECTABLE WARNING
ACCORDANCE WITH
ADA STANDARDS

SLOPE GUTTER
FROM CURB
RAMP

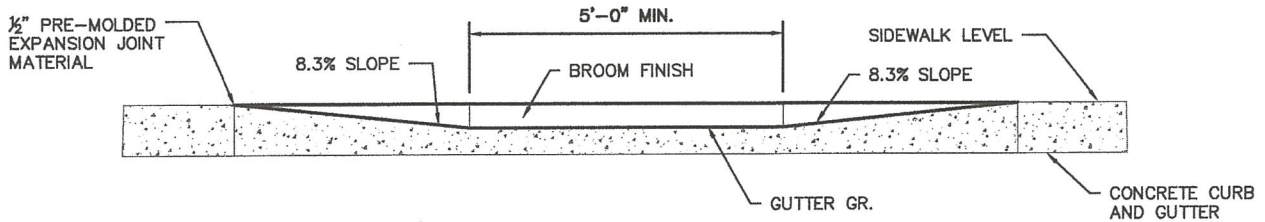
DETECTABLE WARNING
SURFACE

* PROP. RAMP
(TYP)

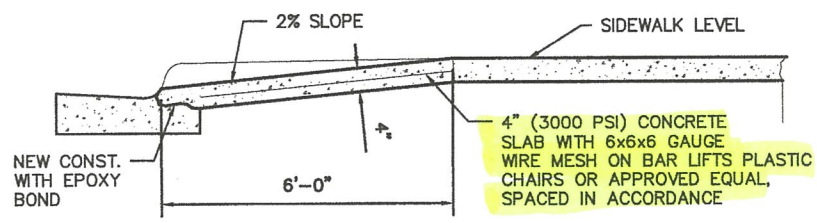


PLAN VIEW

* NUMBER RAMPS AND
RAMP TYPES MAY VARY
WHERE PROPOSED.



SECTION A-A



SECTION B-B

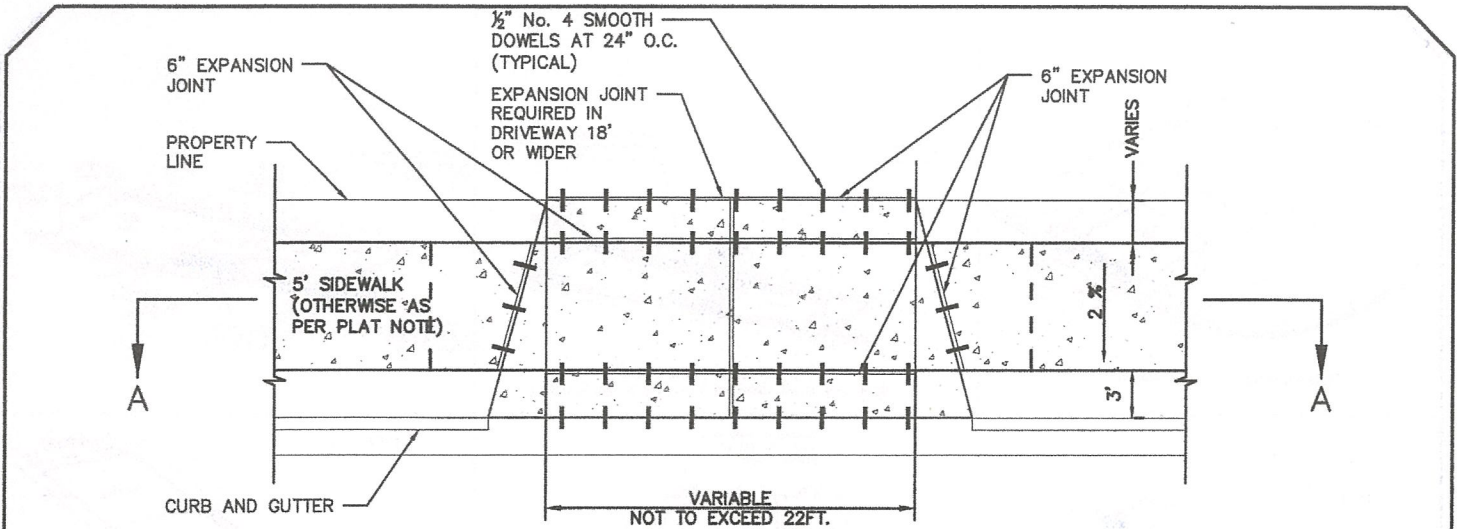
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**HANDICAP RAMP
DETAILS**

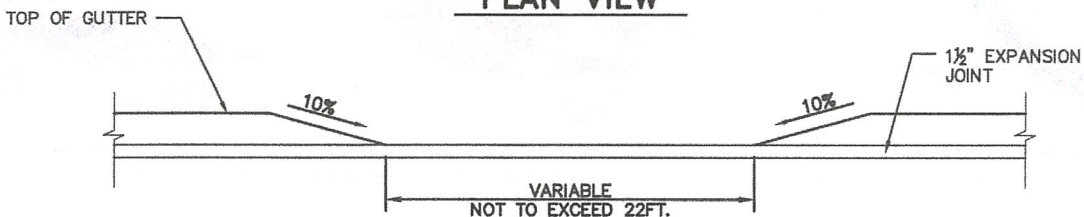
THE CITY OF
EDINBURG
PUBLIC WORKS DEPARTMENT

SCALE: N.T.S.	REVISED: IP/PNL
DATE: APRIL, 2014	DRAWN BY: RMM

Apr 03, 2014 - 4:30PM



PLAN VIEW



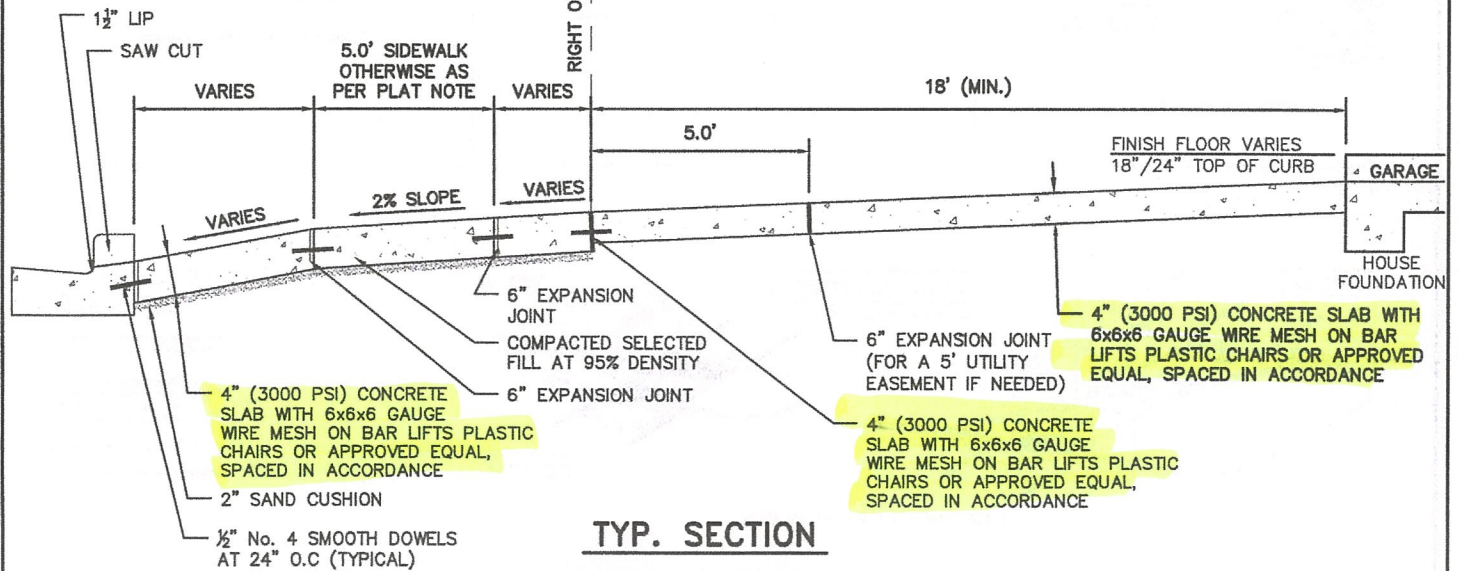
ELEVATION A-A

INSPECTION BY
PUBLIC WORKS
DEPARTMENT

NOT PERMITTED
BRICK PAVERS, TILE,
EXPOSED AGGREGATE,
DECORATIVE OR STAMP
OF ANY PATTERNS

PERMITTED
LIMIT TO DECORATIVE
OR STAMP PATTERNS
INCLUDING COLOR.

INSPECTION BY
CODE ENFORCEMENT



TYP. SECTION

**PAVING DRIVEPAD
DETAILS**

THE CITY OF
EDINBURG
PUBLIC WORKS DEPARTMENT

SCALE: N.T.S.

REVISED: AB/PNL

DATE: MARCH, 2013

DRAWN BY: RMM

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Mar 12, 2014 - 10:17AM



Texas Department of Transportation

RESEARCH AND TECHNOLOGY IMPLEMENTATION OFFICE
P.O. BOX 5080 • AUSTIN, TEXAS 78763-5080 • (512) 416-4730

September 9, 2011

Mr. Ruben De Leon
Bar Lift Inc.
6900 N. 10th, Suite #3
McAllen, Texas 78704

Re: Product Evaluation 12-2756
"Bar-Lift Rebar Chair"

Dear Mr. De Leon:

The product information you submitted has been reviewed by engineers in our Construction Division. They have determined that your product, the Bar-Lift Rebar Chair, may be used on TxDOT work. The supervising TxDOT Engineer's concurrence will be required before the use of your product on a specific job. This letter may be used in the request for the Engineer's job or site specific approval.

The reviewer's comments follow:

Standard Specification 360 only requires the following:

B. Reinforcing Steel. Provide Grade 60 deformed steel for bar reinforcement in accordance with Item 440, "Reinforcing Steel." Provide approved positioning and supporting devices (baskets and chairs) capable of securing and holding the reinforcing steel in proper position before and during paving. Provide corrosion protection when shown on the plans.

There are no specific materials specification requirements for the chairs and TxDOT has no approved list. The project engineer approves on a project by project basis.

If you have questions, please contact me at 512-416-4739.

Sincerely,

(original signature on file)

Duncan Stewart, P.E., Ph.D.

Research and Technology
Implementation Office

cc: Darren Hazlett, PE, CST