

**BID PROPOSAL
&
DRAWINGS
FOR**

**BID 17-10 ADDENDUM #1
2015 CDBG DOWNTOWN IMPROVEMENTS
FOR
CITY OF KINGSVILLE, TEXAS**

TxCDBG PROJECT NO. 7215362

*Financed through provisions of a
Texas Community Development Block Grant
From the Texas Department of Agriculture*

City Manager

Jesus A Garza

Mayor

Sam Fugate

Commissioner(s)

Alfonso R Garcia

Noel Pena

Arturo Pecos

Edna Lopez

JANUARY 31, 2017

Prepared by:



Engineering Department
400 W. King Avenue
Kingsville, Texas 78363
(361) 595-8007

BID PROPOSAL – ADDENDUM #1

Proposal of _____

a * _____ (hereinafter called "BIDDER"), organized and existing under the laws of the State of Texas to **City of Kingsville, Texas** (hereinafter called "OWNER.")

BIDDER hereby proposes to perform all WORK for the construction of the **“2015 CDBG Downtown Improvements”** in accordance with the CONTRACT DOCUMENTS, within the time set forth therein, and at the prices stated below.

By submission of this BID, each BIDDER certifies, and in the case of a joint BID each party thereto certifies as to its own organization, that this BID has been arrived at independently, without consultation, communication, or agreement as to any matter relating to this BID with any other BIDDER or with any competitor.

BIDDER hereby agrees to commence WORK under this contract on or before a date to be specified in the NOTICE TO PROCEED and to fully complete the PROJECT within **60** consecutive calendar days thereafter. BIDDER further agrees to pay as liquidated damages, the sum of **\$ 200.00** for each consecutive calendar day thereafter as provided in the General Conditions.

BIDDER acknowledges receipt of the following ADDENDUM:

ADDENDUM #1

Please refer to BID SCHEDULE and Project Plans – ADDENDUM #1 for updated quantities and design for this project. Updates on the project plans can be distinguished by dark revision clouds. Pages 4, 5, & 6 of the project plans include all changes to the project.

*Insert "a corporation", "a partnership", or "an Individual" as applicable.

BIDDER agrees to perform all the work described in the CONTRACT DOCUMENTS for the following amount:

BID SCHEDULE – ADDENDUM #1

ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE
<u>BASE BID – DOWNTOWN IMPROVEMENTS</u>					
A-1)	152	LF	6” RAISED CURB per plans and specifications, complete in place per linear foot.	_____	_____
A-2)	675	SF	6” CONCRETE GUTTTER per plans and specifications, complete in place per square foot.	_____	_____
A-3)	2050	SF	4” CONCRETE SIDEWALK per plans and specifications, complete in place per square foot.	_____	_____
A-4)	30	SF	BRICK PAVERS per plans and specifications, complete in place per each.	_____	_____
A-5)	5	EA	TYPE 7&10 – CURB RAMP per plans and specifications, complete in place per each.	_____	_____
A-6)	2	EA	TYPE 1 – CURB RAMP per plans and specifications, complete in place per each.	_____	_____
TOTAL BASE BID				\$ _____	

Respectfully submitted:

Signature

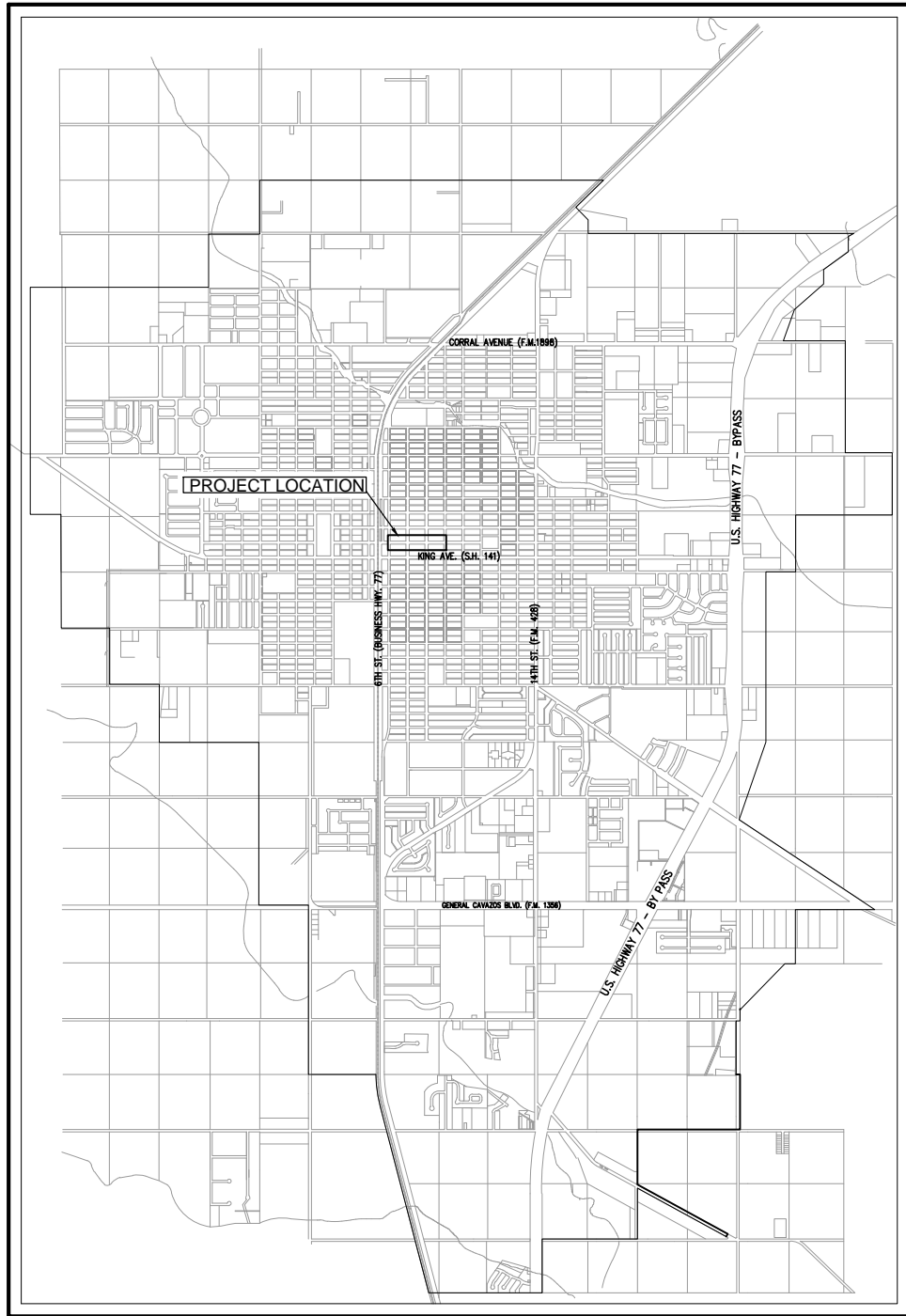
Address

Title

Date

License number (if applicable)

Date



KINGSVILLE, TEXAS
SCALE: NOT TO SCALE



CITY OF KINGSVILLE, TEXAS

2015 DOWNTOWN IMPROVEMENTS PROJECT

TX-CDBG PROJECT NO. 7215362

ADDENDUM #1

SHEET INDEX	
SHEET NO.	DESCRIPTION
1	COVER SHEET
2	CONSTRUCTION/PROTECTION NOTES
3	PROJECT AREA MAP
4	KLEBERG AVENUE & 8TH STREET INTERSECTION
5	KLEBERG AVENUE CURB RAMPS
6	7TH STREET SIDEWALK IMPROVEMENTS
7-10	PEDESTRIAN FACILITIES - CURB RAMP STANDARDS
11	CONCRETE CURB AND CURB & GUTTER STANDARDS

MAYOR
SAM FUGATE

CITY MANAGER
JESUS A. GARZA

CITY ENGINEER/DIRECTOR OF PUBLIC WORKS
CHARLIE CARDENAS, P.E.

DIRECTOR OF PLANNING AND DEVELOPMENT SERVICES
TOM GINTER

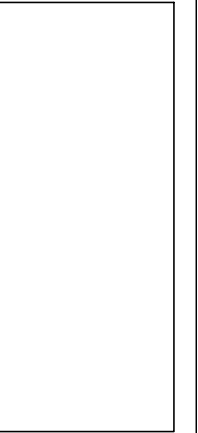
DOWNTOWN MANAGER/HISTORIC PRESERVATION OFFICER
CYNTHIA MARTIN

CITY COMMISSIONERS
ALFONSO R. GARCIA
NOEL PENA
ARTURO PECOS
EDNA LOPEZ

COVER SHEET

2015 DOWNTOWN IMPROVEMENTS

No.	DATE	REVISION
7		
6		
5		
4		
3		
2		
1	1/30/2017	ADDENDUM #1



DATE: 09/29/2015	SCALE: NTS
DRAWN: S.SANTILLAN	CHECKED BY:
PROJECT #	
SHEET NO: 1	

PROTECTION NOTES FOR REMOVAL OF EXISTING PAVEMENT, CURB OR SIDEWALK AND CONSTRUCTION OF NEW PAVEMENT, CURB OR SIDEWALK ADJACENT TO HISTORIC BUILDINGS, CANOPIES, MATERIALS, FENCES, AND RETAINING WALLS.

Where proposed work is in proximity to historic buildings or other structures (walls, canopies, retaining walls, fences), and planting beds, and vegetation/groundcover, follow the procedures listed below for demolition, protection, and construction within the scope of this project.

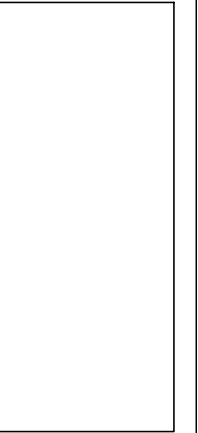
1. To minimize potential damage to historic structures and materials, contractor to saw cut existing sidewalk 8 to 12 inches away from the historic structure, canopy supports, fence, or retaining wall.
2. Contractor to construct new sidewalk next to the saw cut edge with installation of expansion joint in between. If existing sidewalk is to be removed entirely, the remaining 8 to 12 inches next to the historic structure, canopy supports, materials, fence, or retaining wall will be removed by hand. Expansion joint to be placed between historic structure, canopy support, material, fence, or retaining wall and new sidewalk.
3. Contractor is responsible for preventing damage to historic structure, canopy supports and their awning, materials, fences, retaining walls, including garden elements (planting beds, plantings) during the entire construction project, especially during removal of existing pavement, curb, or sidewalk. During the saw cut and hand removal process, contractor will exercise utmost caution and will physically protect historic foundation, canopy supports, materials, elevations, entryways with decorative flooring, fences, retaining wall and new sidewalk.
4. Contractor to repair or replace in kind, at his own expense, any historic materials damaged in the course of executing the work. Contractor is responsible for locating replacement source for historic materials damaged in the course of the work. Texas Historical Commission to be informed of damage and proposed repairs prior to execution of repair work.

CONSTRUCTION NOTES

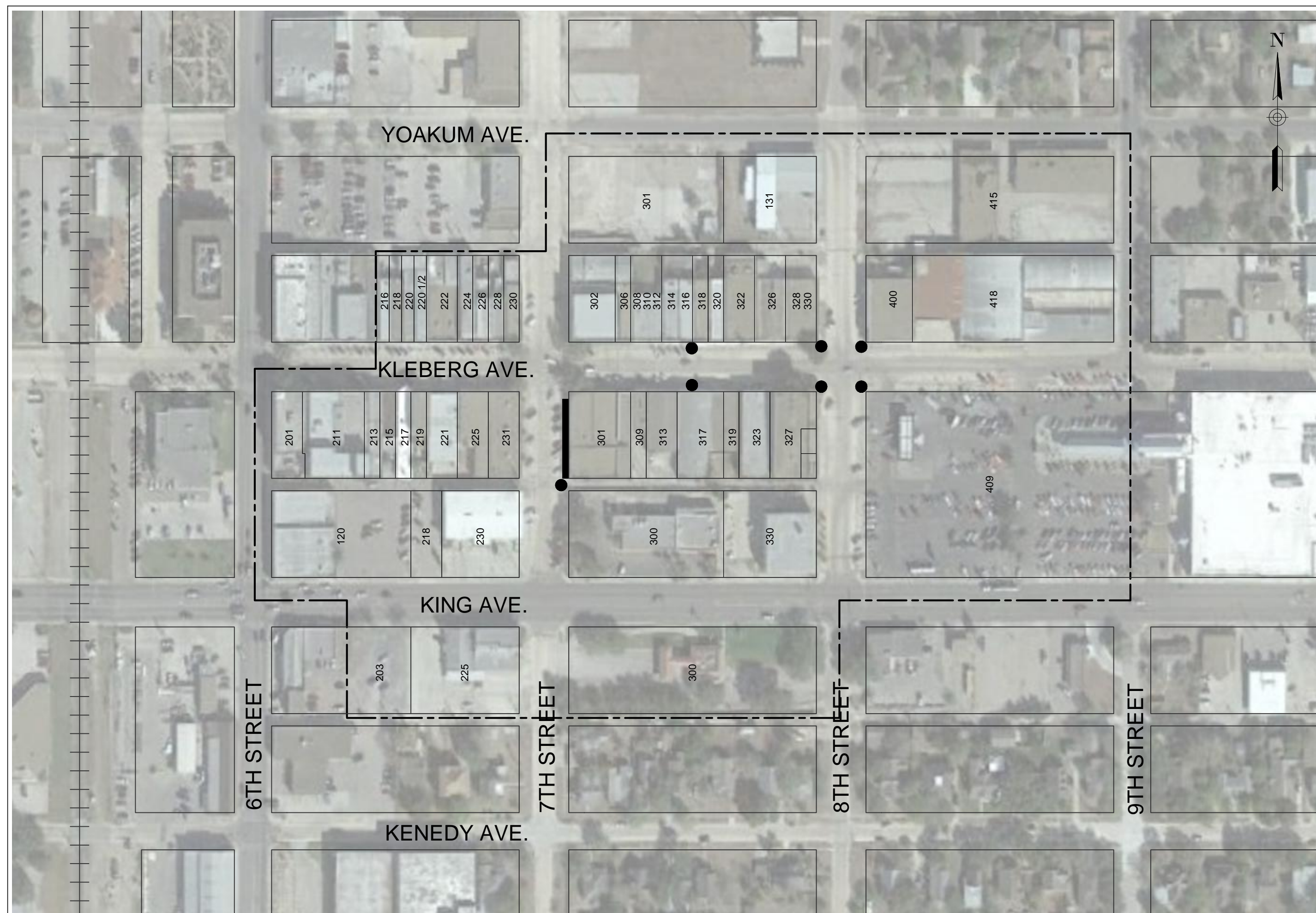
1. Old Texas Theater Ramp Intersection – Contractor shall preserve the integrity of the terrazzo sidewalk in place. Where necessary to install ramp, contractor shall hand demolish existing concrete.
2. Perpendicular Ramps – Contractor shall preserve the integrity of the sidewalk in place. Where necessary to install ramp, contractor shall hand demolish existing concrete.
3. Sidewalk Repair – When replacing sidewalk, contractor shall use the same material as currently exists. Contractor shall use excavation and demolition methods that produce low vibration levels, hand demolish area next to buildings to protect building facades, cover building facade at grade with plastic to protect damage, and seal windows facing construction site to limit dust infiltration during demolition.
4. Remove and Relocate concrete street marker – Historic street marker. Remove with care so as not to damage the marker. Re-install with an eye to placement so the marker reads right as far as the block number and street name. When resetting marker, retain its current height above grade as possible.
5. Remove and replace street lamp & remove and replace stop sign – Preserve integrity of existing sidewalk & curbing. Where necessary to patch sidewalk, use the same material as currently exists. Match replacement street lamp and stop sign in design and general placement to those currently in use in the downtown district. Cover building facade at grade with plastic to protect against damage. Seal windows facing construction site to limit dust infiltration during demolition.

PROTECTION OF HISTORIC FEATURES
DURING CONSTRUCTION
2015 DOWNTOWN IMPROVEMENTS

7									
6									
5									
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2									
1	1/30/2017								
No.	DATE								



DATE: 09/29/2015	SCALE: NTS
DRAWN: S.SANTILLAN	CHECKED BY:
PROJECT #	
SHEET NO: 2	



PROJECT AREA MAP

2015 DOWNTOWN IMPROVEMENTS

No.	DATE	REVISION
7		
6		
5		
4		
3		
2		
1	1/30/2017	APPENDIX #1

DATE: 09/29/2015

SCALE: 1" = 150'

DRAWN: S.SANTILLAN

CHECKED BY:

PROJECT #

SHEET NO: 3

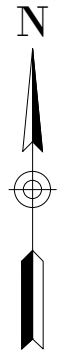
3

ALL AMERICAN
CHEER CO.

ACOSTA HAIR STUDIO

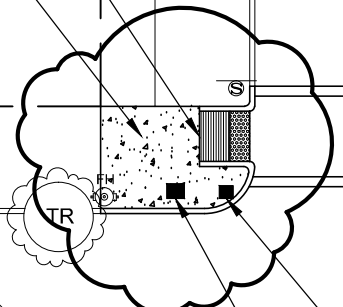
8TH STREET

TOTES AND THINGS



INSTALL
TYPE 7 - DIRECTIONAL RAMP
BY CONTRACTOR

REMOVE AND REPLACE
116 S.F.
4" CONCRETE SIDEWALK
3000 PSI W/ #4 REBAR @ 16" O.C.
BR CONTRACTOR



REFER TO:
BID SCHEDULE - ADDENDUM #1
IN CONTRACT DOCUMENTS

REMOVE AND RELOCATE
CONCRETE STREET MARKER
BY CONTRACTOR

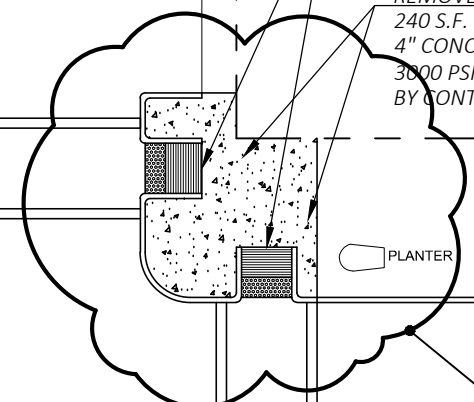
REMOVE AND REPLACE
LIGHT POLE
BY AEP

KLEBERG AVENUE

REFER TO:
BID SCHEDULE - ADDENDUM #1
IN CONTRACT DOCUMENTS

INSTALL
TYPE 7 - DIRECTIONAL RAMP
BY CONTRACTOR

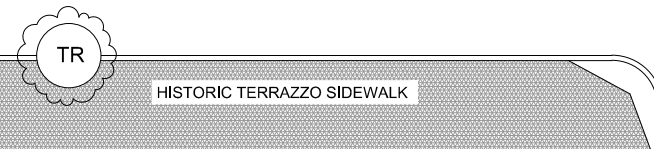
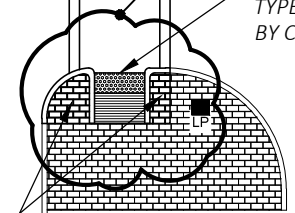
REMOVE AND REPLACE
240 S.F.
4" CONCRETE SIDEWALK
3000 PSI W/ #4 REBAR @ 16" O.C.
BY CONTRACTOR



REFER TO:
BID SCHEDULE - ADDENDUM #1
IN CONTRACT DOCUMENTS

INSTALL
TYPE 7 - DIRECTIONAL RAMP
BY CONTRACTOR

REMOVE AND REPLACE
30 S.F.
BRICK PAVERS



OLD TEXAS THEATER

H-E-B GASOLINE STATION

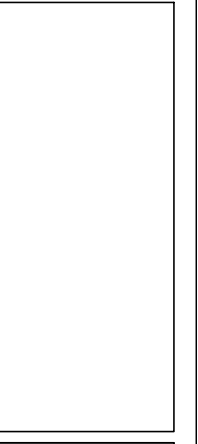
CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL PRESERVE THE INTEGRITY OF THE TERRAZZO SIDEWALK IN FRONT OF THE OLD TEXAS THEATRE. THE CONTRACTOR SHALL REMOVE BY HAND ANY EXISTING CONCRETE ADJACENT TO THIS SIDEWALK.
2. THE CONTRACTOR SHALL PRESERVE THE INTEGRITY OF ALL SIDEWALK WHERE CURB RAMPS ARE BEING PROPOSED. THE CONTRACTOR SHALL REMOVE BY HAND ANY EXISTING CONCRETE ADJACENT TO THIS SIDEWALK.
3. THE CONTRACTOR SHALL REMOVE THE CONCRETE STREET MARKER WITH EXTREME CAUTION AS TO NOT DAMAGE THE MARKER. THE CONTRACTOR SHALL RE-INSTALL THE MARKER ACCORDINGLY TO THE BLOCK NUMBER AND STREET NAME.
4. REFER TO SHEET 2 FOR RECOMMENDED DEMOLITION/CONSTRUCTION METHODS.

KLEBERG AVE & 8TH ST INTERSECTION

2015 DOWNTOWN IMPROVEMENTS

No.	DATE	ADDENDUM #1	REVISION
7			
6			
5			
4			
3			
2			
1	1/30/2017		



DATE: 09/29/2015	SCALE: 1" = 20'
DRAWN: S.SANTILLAN	CHECKED BY:
PROJECT #	
SHEET NO: 4	

LA HACIENDA

QUIP SKATES

SERVICE LOAN AND TAX CO.

DOWNTOWN DIVA'S BOUTIQUE

99c GALORE

VACANT



REMOVE AND REPLACE
85 S.F.
4" CONCRETE SIDEWALK
3000 PSI W/ #4 REBAR @ 16" O.C.
BY CONTRACTOR

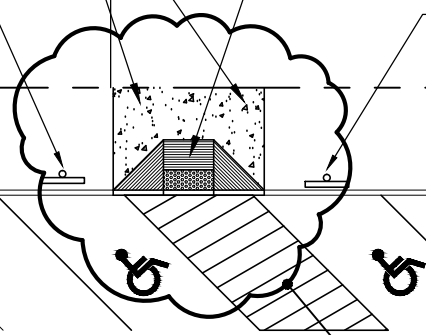
INSTALL
TYPE 1 - PERPENDICULAR CURB RAMP
BY CONTRACTOR

INSTALL
SIGN W/ INTERNATIONAL ACCESS SYMBOL
DEPICTING SPACE FOR ACCESSIBLE PARKING
BY CITY

INSTALL
SIGN W/ INTERNATIONAL ACCESS SYMBOL
DEPICTING SPACE FOR ACCESSIBLE PARKING
BY CITY

PLANTER

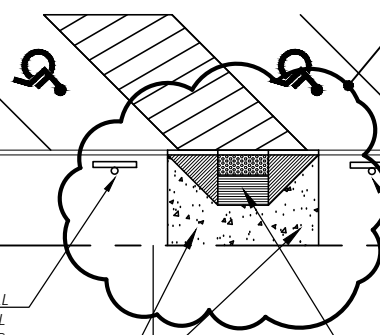
LP



REFER TO:
BID SCHEDULE - ADDENDUM #1
IN CONTRACT DOCUMENTS

KLEBERG AVENUE

REFER TO:
BID SCHEDULE - ADDENDUM #1
IN CONTRACT DOCUMENTS



INSTALL
SIGN W/ INTERNATIONAL ACCESS SYMBOL
DEPICTING SPACE FOR ACCESSIBLE PARKING
BY CITY

INSTALL
SIGN W/ INTERNATIONAL ACCESS SYMBOL
DEPICTING SPACE FOR ACCESSIBLE PARKING
BY CITY

REMOVE AND REPLACE
85 S.F.
4" CONCRETE SIDEWALK
3000 PSI W/ #4 REBAR @ 16" O.C.
BY CONTRACTOR

INSTALL
TYPE 1 - PERPENDICULAR CURB RAMP
BY CONTRACTOR

PLANTER

LP

PLANTER

ROGUE FITNESS

ECONOMY FINANCE CO.

VACANT

MINDLESS INK TATTOO STUDIO

VACANT

SOUTH TEXAS MARTIAL ARTS

AL'S HAIR DESIGN

VACANT

KLEBERG AVENUE CURB RAMPS

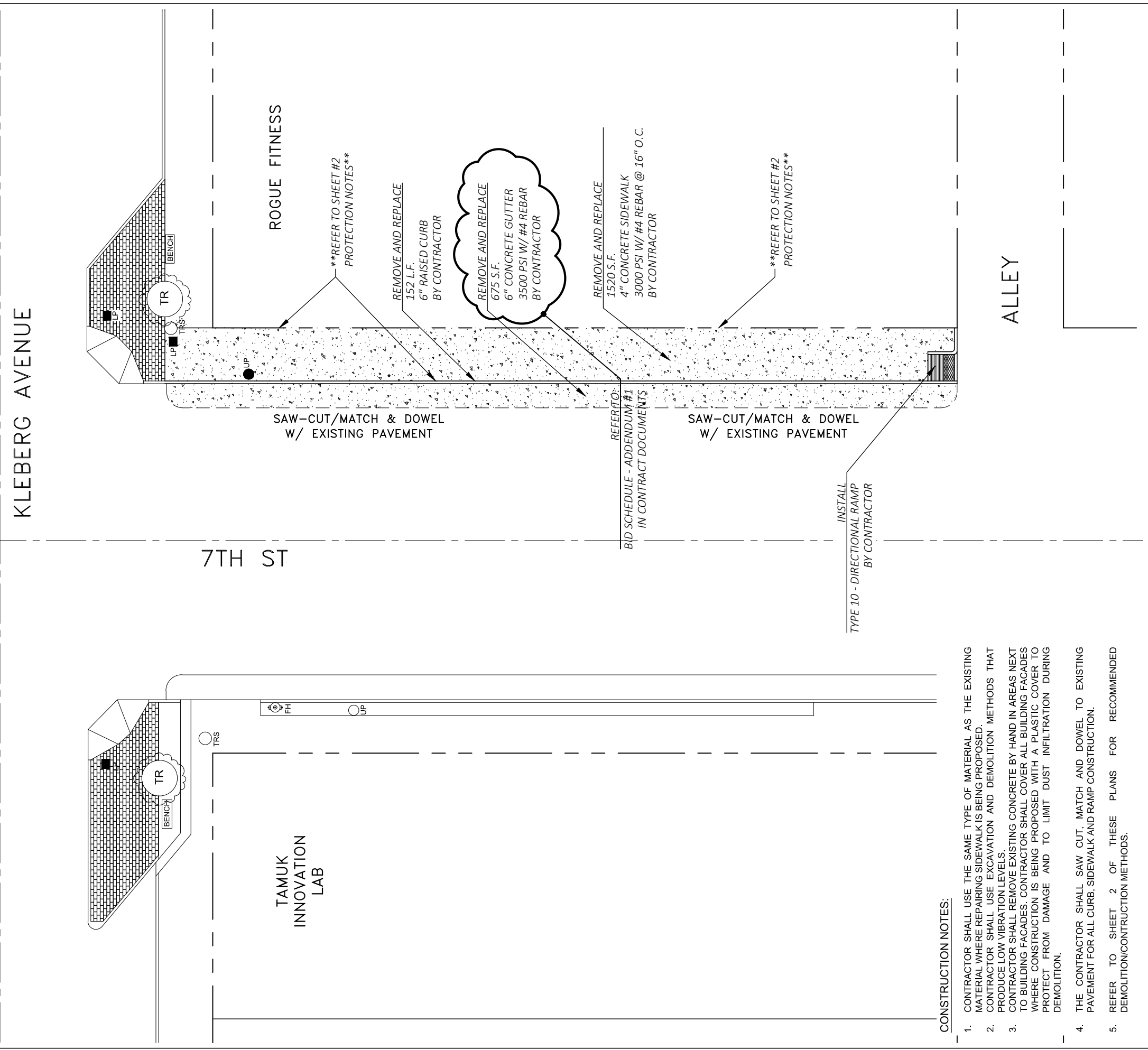
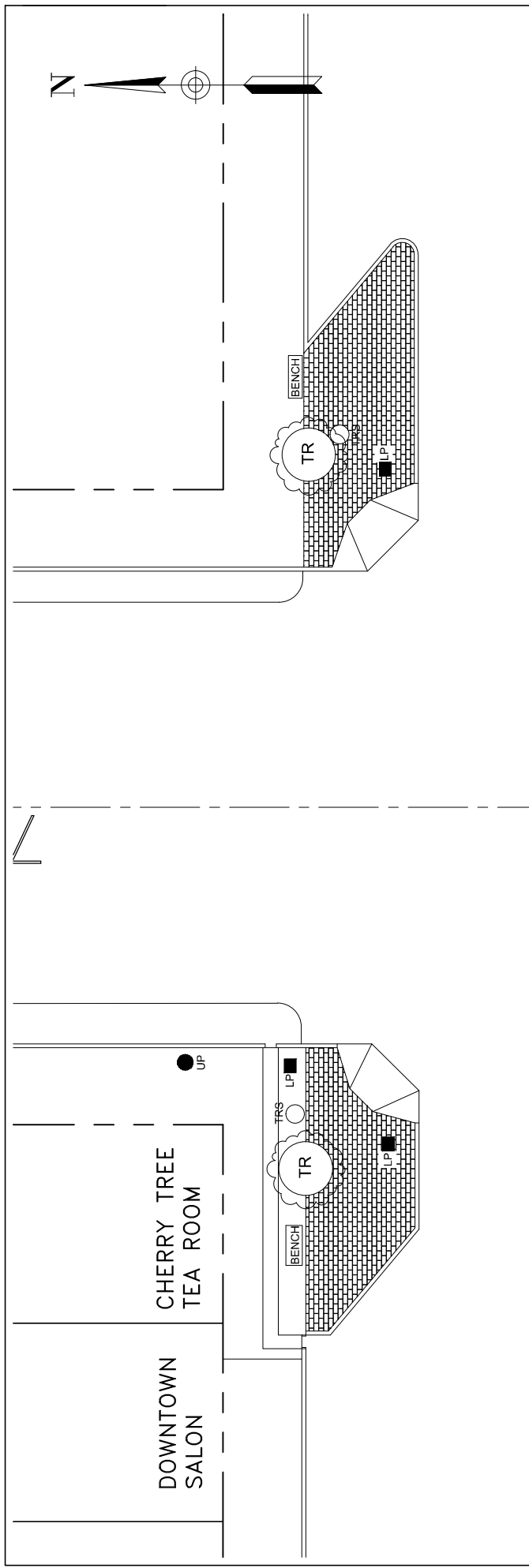
2015 DOWNTOWN IMPROVEMENTS

No.	DATE	ADDENDUM #1	REVISION
7			
6			
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4			
3			
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1	1/30/2017		

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL PRESERVE THE INTEGRITY OF ALL SIDEWALK WHERE PERPENDICULAR CURB RAMPS ARE BEING PROPOSED. THE CONTRACTOR SHALL REMOVE BY HAND ANY EXISTING CONCRETE ADJACENT TO THIS SIDEWALK.
2. THE CONTRACTOR SHALL SAW CUT, MATCH AND DOWEL TO EXISTING PAVEMENT FOR ALL CURB, SIDEWALK AND RAMP CONSTRUCTION.
3. REFER TO SHEET 2 OF THESE PLANS FOR RECOMMENDED DEMOLITION/CONSTRUCTION METHODS.

DATE: 09/29/2015	SCALE: 1" = 20'
DRAWN: S.SANTILLAN	CHECKED BY:
PROJECT #	
SHEET NO: 5	



CONSTRUCTION NOTES:

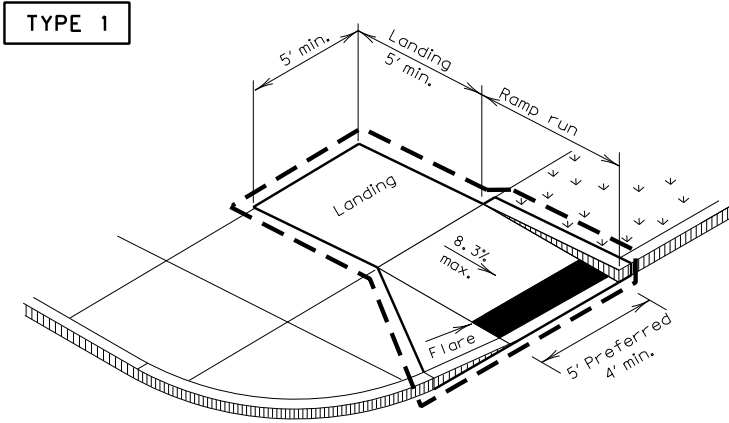
1. CONTRACTOR SHALL USE THE SAME TYPE OF MATERIAL AS THE EXISTING MATERIAL WHERE REPAIRING SIDEWALK IS BEING PROPOSED.
2. CONTRACTOR SHALL USE EXCAVATION AND DEMOLITION METHODS THAT PRODUCE LOW VIBRATION LEVELS.
3. CONTRACTOR SHALL REMOVE EXISTING CONCRETE BY HAND IN AREAS NEXT TO BUILDING FACADES. CONTRACTOR SHALL COVER ALL BUILDING FACADES WHERE CONSTRUCTION IS BEING PROPOSED WITH A PLASTIC COVER TO PROTECT FROM DAMAGE AND TO LIMIT DUST INFILTRATION DURING DEMOLITION.
4. THE CONTRACTOR SHALL SAW CUT, MATCH AND DOWEL TO EXISTING PAVEMENT FOR ALL CURB, SIDEWALK AND RAMP CONSTRUCTION.
5. REFER TO SHEET 2 OF THESE PLANS FOR RECOMMENDED DEMOLITION/CONSTRUCTION METHODS.

DATE: 09/29/2015	SCALE: 1" = 20'
DRAWN: S. SANTILLAN	CHECKED BY:
PROJECT #	
SHEET NO:	6
No.	DATE
7	
6	
5	
4	
3	
2	
1	1/30/2017
	ADDENDUM #1
	REVISION

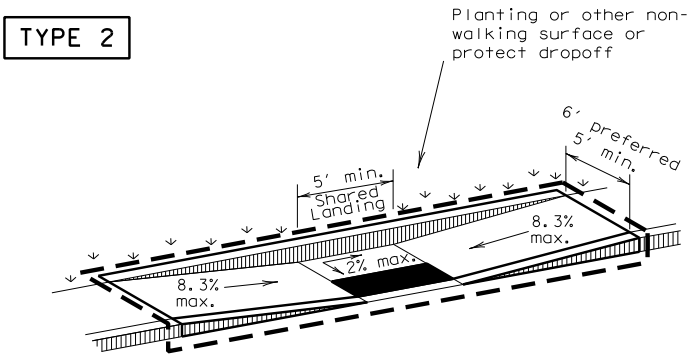
7TH STREET SIDEWALK IMPROVEMENTS

2015 DOWNTOWN IMPROVEMENTS

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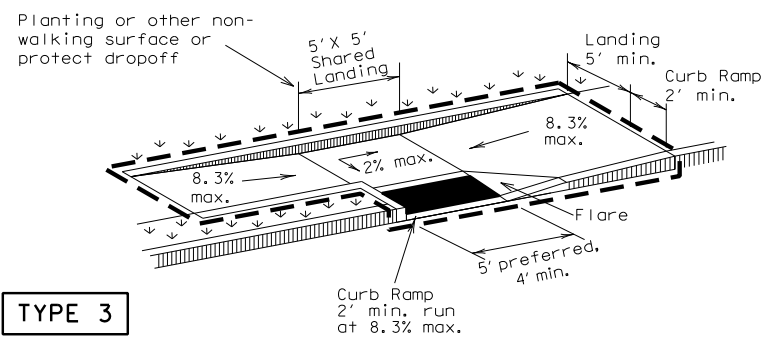


PERPENDICULAR CURB RAMP

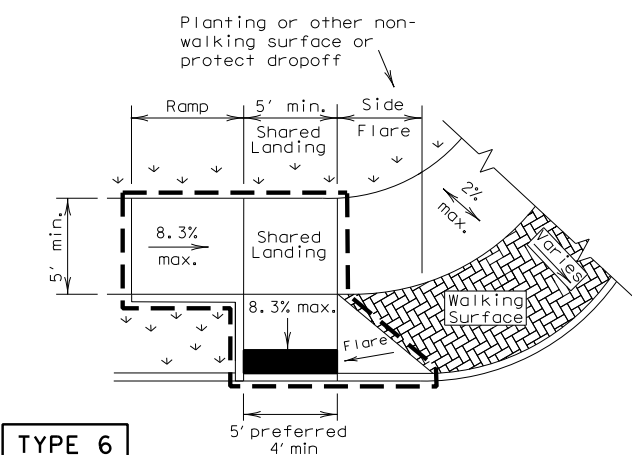


PARALLEL CURB RAMP

(Use only where water will not pond in the landing.)

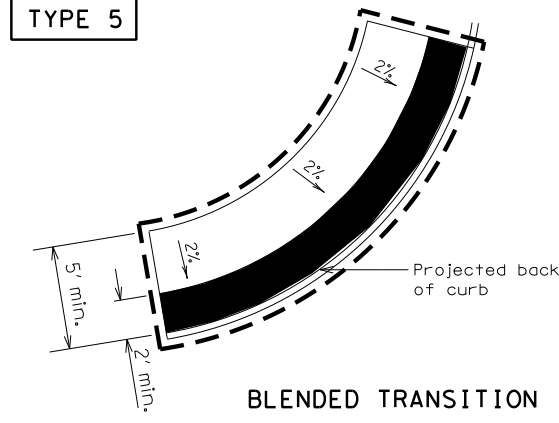


TYPE 3

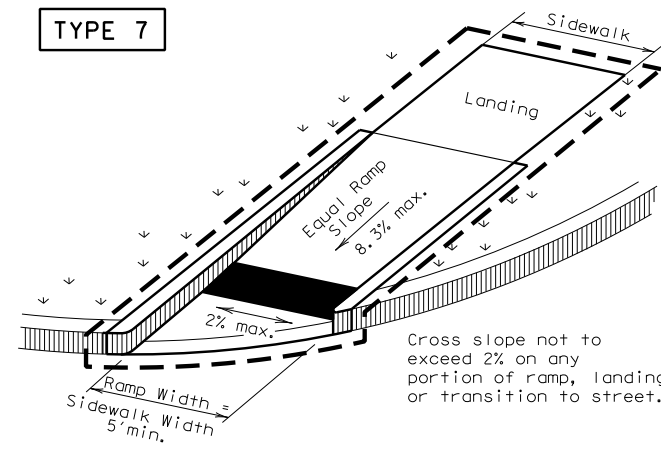


TYPE 6

COMBINATION CURB RAMPS

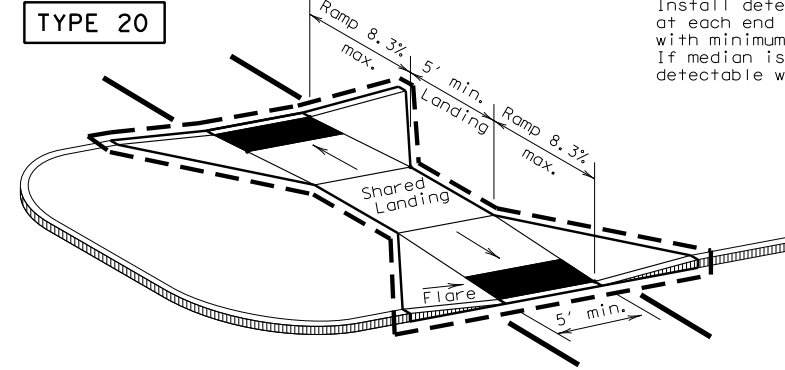


BLENDED TRANSITION

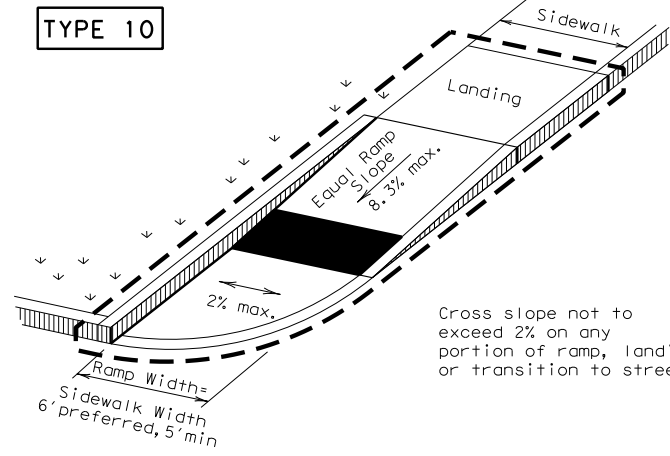


(Sidewalk set back from curb)

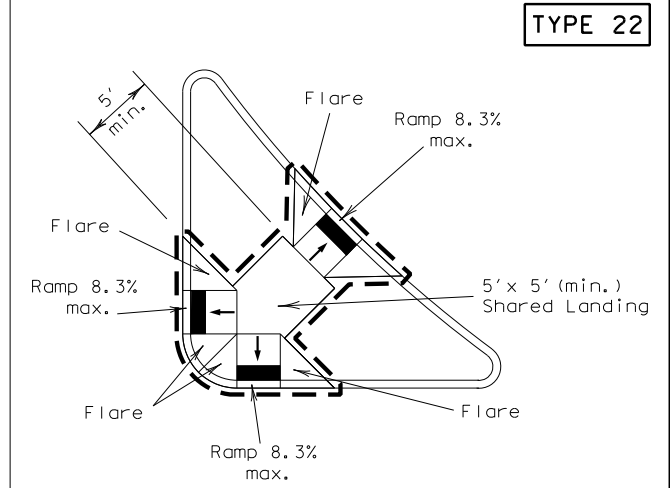
DIRECTIONAL RAMPS WITHIN RADIUS



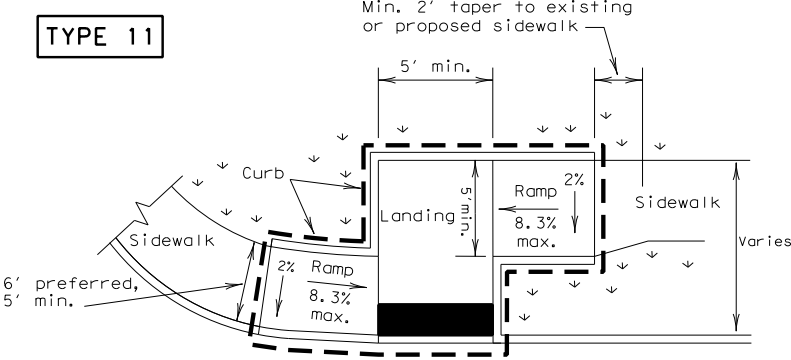
CURB RAMPS AT MEDIAN ISLANDS



(Sidewalk adjacent to curb)



COMBINATION ISLAND RAMPS



OFFSET PARALLEL CURB RAMP

NOTES / LEGEND:

See General Notes on sheet 2 of 4 for more information.

Denotes planting or non-walking surface not part of pedestrian circulation path.

--- Ramp Limits of Payment

■ Detectable Warning Surface

PEDESTRIAN FACILITIES CURB RAMPS

PED-12A

FILE: ped12a.dgn	DN: TxDOT	CK: RM	DW: TxDOT	CK: VP
© TxDOT March 2002	CONT	SECT	JOB	HIGHWAY
REVISIONS				
VP June 13, 2012	DIST	COUNTY		SHEET NO.

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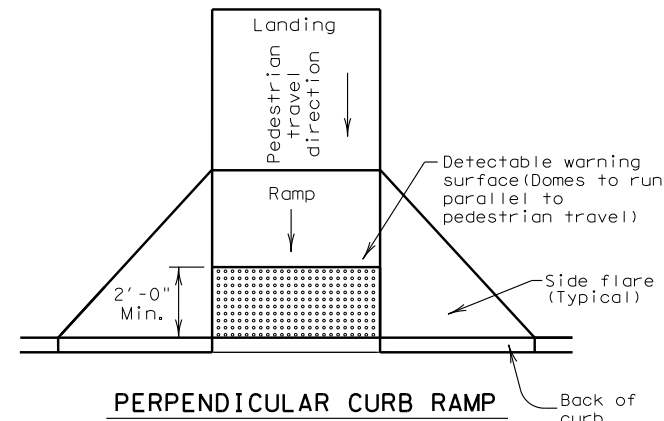
General Notes

Curb Ramps

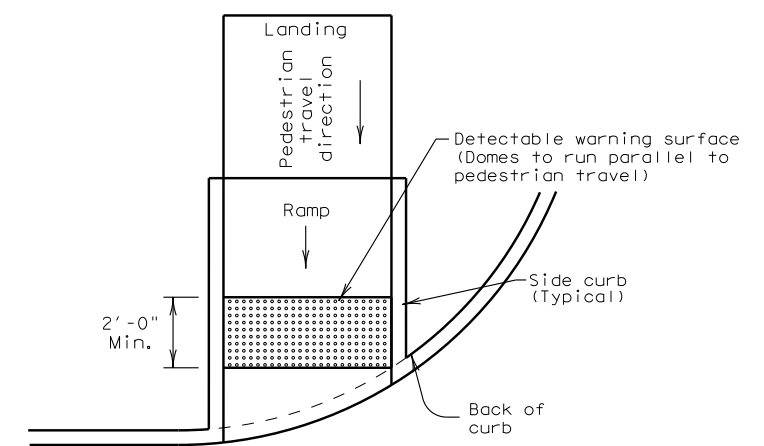
1. Install a curb ramp or blended transition at each pedestrian street crossing.
2. All slopes shown are maximum allowable. Lesser slopes that will still drain properly should be used. Adjust curb ramp length or grade of approach sidewalks as directed.
3. The minimum sidewalk width is 5'. Where the sidewalk is adjacent to the back of curb, a 6' sidewalk width is desirable. Where a 5' sidewalk cannot be provided due to site constraints, sidewalk width may be reduced to 4' for short distances. 5' x 5' passing areas at intervals not to exceed 200' are required.
4. Landings shall be 5' x 5' minimum with a maximum 2% slope in any direction.
5. Maneuvering space at the bottom of curb ramps shall be a minimum of 4' x 4' wholly contained within the crosswalk and wholly outside the parallel vehicular travel path.
6. Maximum allowable cross slope on sidewalk and curb ramp surfaces is 2%.
7. Provide flared sides where the pedestrian circulation path crosses the curb ramp. Flared sides shall be sloped at 10% maximum, measured parallel to the curb. Returned curbs may be used only where pedestrians would not normally walk across the ramp, either because the adjacent surface is planted, substantially obstructed, or otherwise protected.
8. Additional information on curb ramp location, design, light reflective value and texture may be found in the current edition of the Texas Accessibility Standards (TAS) and 16 TAC 68.102.
9. To serve as a pedestrian refuge area, the median should be a minimum of 6' wide, measured from back of curbs. Medians should be designed to provide accessible passage over or through them.
10. Small channelization islands, which do not provide a minimum 5' x 5' landing at the top of curb ramps, shall be cut through level with the surface of the street.
11. Crosswalk dimensions, crosswalk markings and stop bar locations shall be as shown elsewhere in the plans. At intersections where crosswalk markings are not required, curb ramps shall align with theoretical crosswalks unless otherwise directed.
12. Handrails are not required on curb ramps. Provide curb ramps wherever on accessible route crosses (penetrates) a curb.
13. Curb ramps and landings shall be constructed and paid for in accordance with Item 531 "Sidewalks".
14. Place concrete at a minimum depth of 5" for ramps, flares and landings, unless otherwise directed.
15. Provide a smooth transition where the curb ramps connect to the street.
16. Curbs shown on sheet 1 within the limits of payment are considered part of the curb ramp for payment, whether it is concrete curb, gutter, or combined curb and gutter.
17. Existing features that comply with TAS may remain in place unless otherwise shown on the plans.

Detectable Warning Material

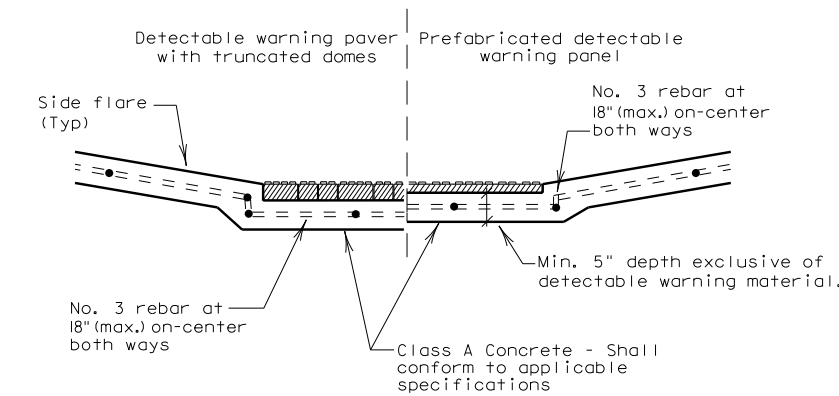
18. Curb ramps must contain a detectable warning surface that consists of raised truncated domes complying with Section 705 of the TAS. The surface must contrast visually with adjoining surfaces, including side flares. Furnish and install an approved cast-in-place dark brown or dark red detectable warning surface material adjacent to uncolored concrete, unless specified elsewhere in the plans.
19. Detectable Warning Materials must meet TxDOT Departmental Materials Specification DMS 4350 and be listed on the Material Producer List. Install products in accordance with manufacturer's specifications.
20. Detectable warning surfaces must be slip resistant and not allow water to accumulate.
21. Detectable warning surfaces shall be a minimum of 24" in depth in the direction of pedestrian travel, and extend the full width of the curb ramp or landing where the pedestrian access route enters the street.
22. Detectable warning surfaces shall be located so that the edge nearest the curb line is at the back of curb. Align the rows of domes to be perpendicular to the grade break between the ramp run and the street. Detectable warning surfaces may be curved along the corner radius.
23. Shaded areas on Sheet 1 of 4 indicate the approximate location for the detectable warning surface for each curb ramp type.



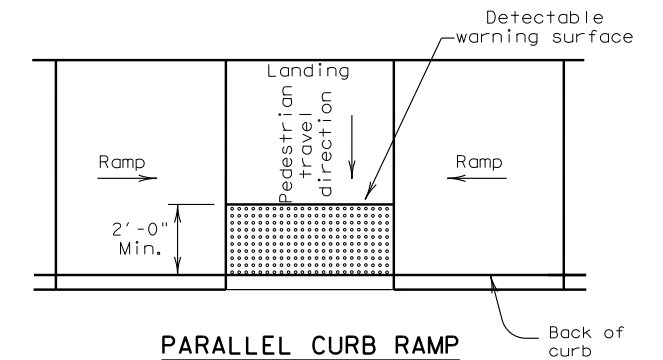
PERPENDICULAR CURB RAMP
Typical placement of detectable warning surface on sloping ramp run.



DIRECTIONAL CURB RAMP
Typical placement of detectable warning surface on sloping ramp run.



SECTION: CURB RAMP AT DETECTABLE WARNING



PARALLEL CURB RAMP
Typical placement of detectable warning surface on landing at street edge.

DETECTABLE WARNINGS

Detectable Warning Pavers

24. Furnish detectable warning paver units meeting all requirements of ASTM C-936, C-33. Lay in a two by two unit basket weave pattern or as directed.
25. Lay full-size units first followed by closure units consisting of at least 25 percent of a full unit. Cut detectable warning paver units using a power saw.

Sidewalks

26. Provide clear ground space at operable parts, including pedestrian push buttons. Operable parts shall be placed within one or more reach ranges specified in TAS 308.
27. Place traffic signal or illumination poles, ground boxes, controller boxes, signs, drainage facilities and other items so as not to obstruct the pedestrian access route or clear ground space.
28. Street grades and cross slopes shall be as shown elsewhere in the plans.
29. Changes in level greater than 1/4 inch are not permitted.
30. The least possible grade should be used to maximize accessibility. The running slope of sidewalks and crosswalks within the public right of way may follow the grade of the parallel roadway. Where a continuous grade greater than 5% must be provided, handrails may be desirable to improve accessibility. Handrails may also be needed to protect pedestrians from potentially hazardous conditions. If provided, handrails shall comply with TAS 505.
31. Handrail extensions shall not protrude into the usable landing area or into intersecting pedestrian routes.
32. Driveways and turnouts shall be constructed and paid for in accordance with Item "Intersections, Driveways and Turnouts". Sidewalks shall be constructed and paid for in accordance with Item, "Sidewalks".
33. Sidewalk details are shown elsewhere in the plans.

SHEET 2 OF 4

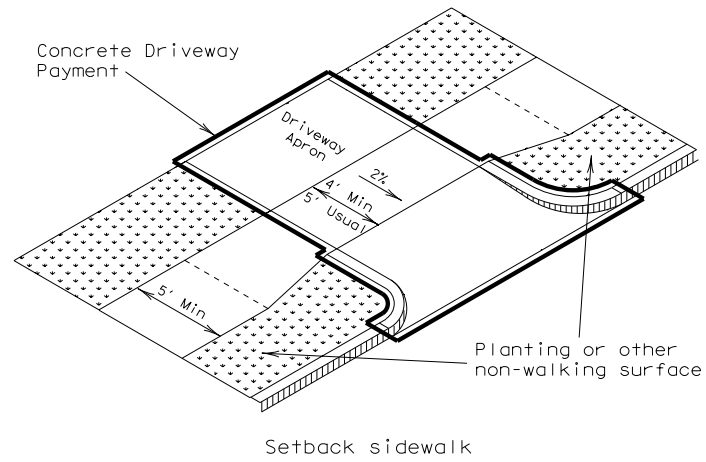


PEDESTRIAN FACILITIES CURB RAMPS

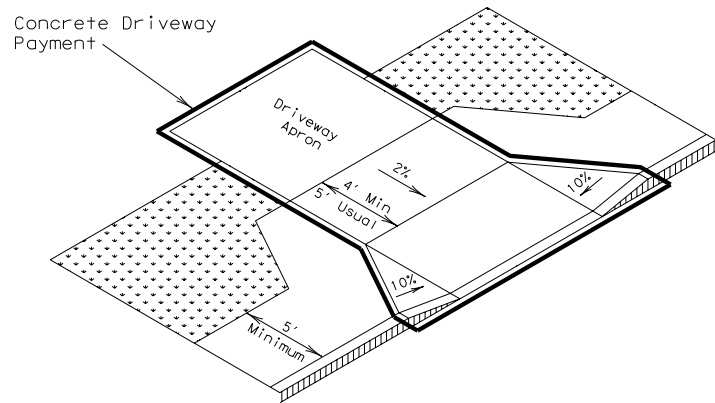
PED-12A

FILE: ped12a.dgn	DN: TxDOT	CK: RM	DW: TxDOT	CK: VP
© TxDOT March 2002	CONT	SECT	JOB	HIGHWAY
REVISIONS				
VP June 13, 2012	DIST	COUNTY	SHEET NO.	

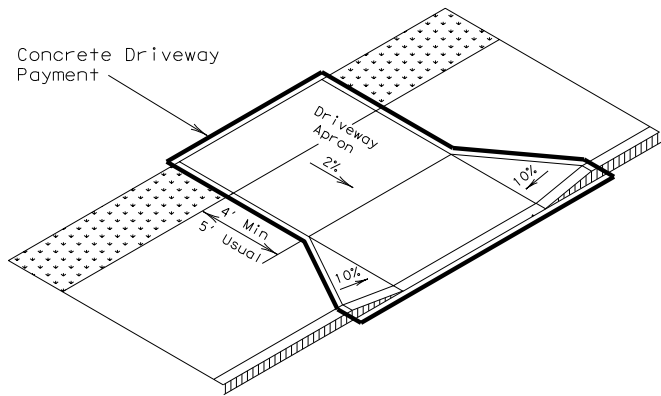
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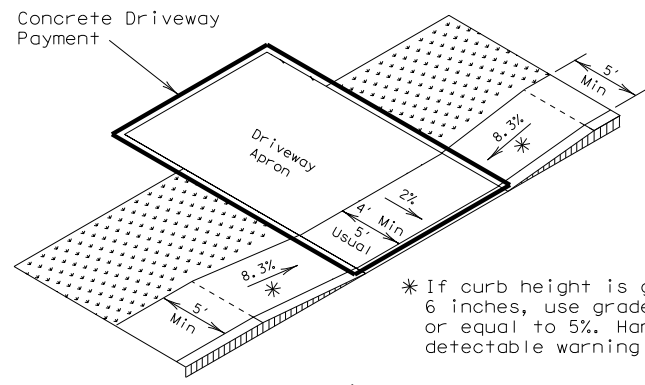
Setback sidewalk



Apron offset sidewalk



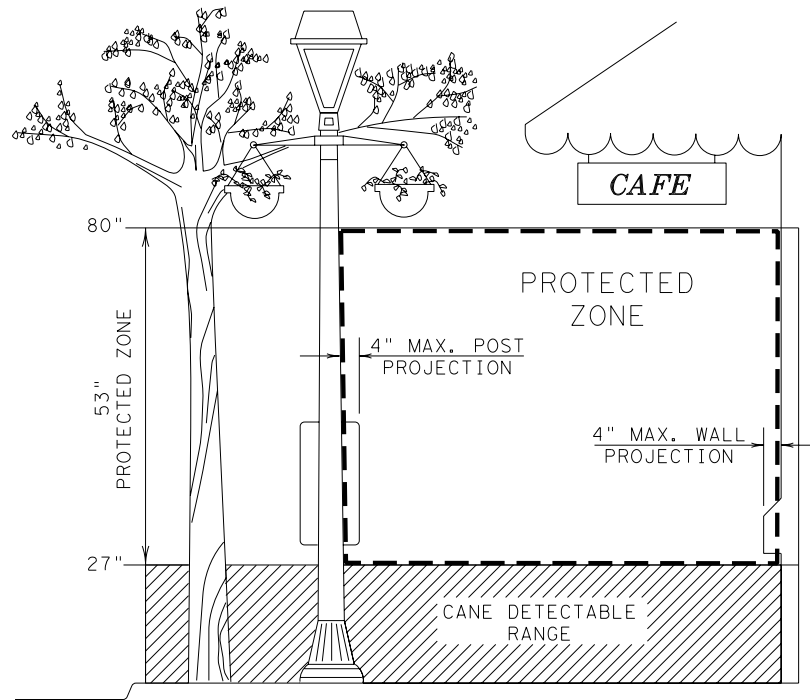
Wide sidewalk



Ramp sidewalk

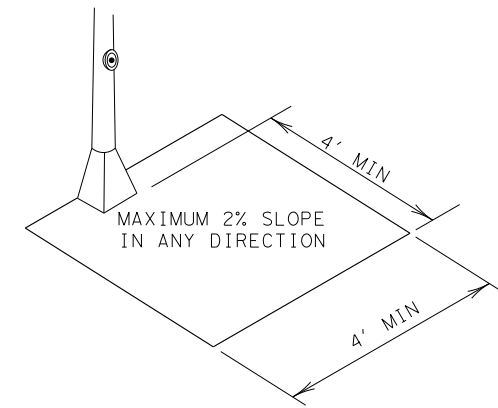
SIDEWALK TREATMENT AT DRIVEWAYS

* If curb height is greater than 6 inches, use grade less than or equal to 5%. Handrail and detectable warning not required.

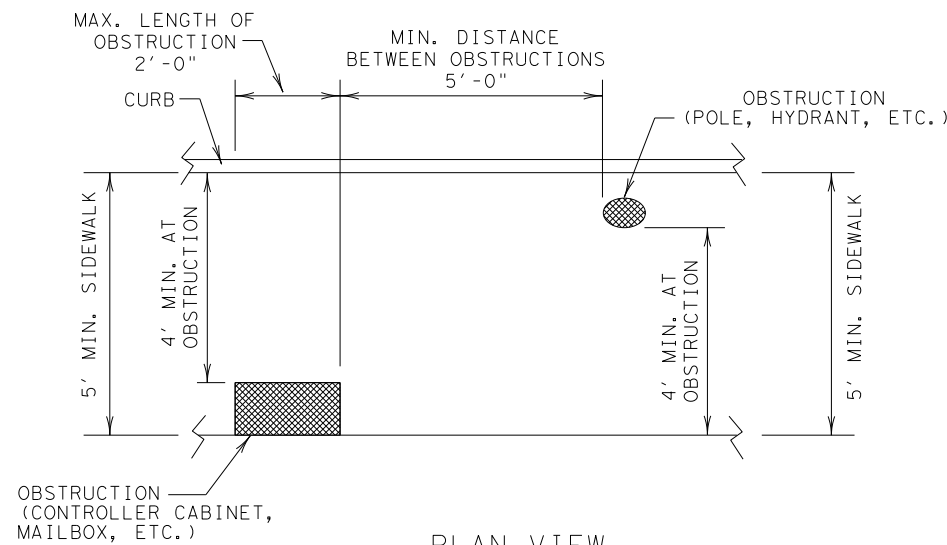


PROTECTED ZONE

In pedestrian circulation area, maximum 4" projection for post or wall mounted objects between 27" and 80" above the surface.

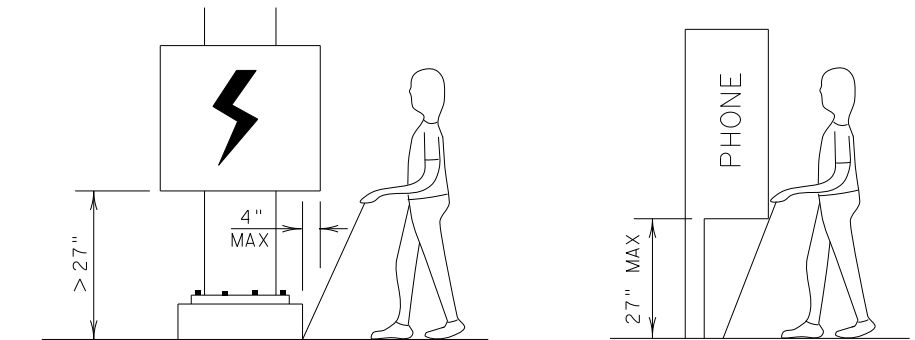


CLEAR GROUND SPACE ADJACENT TO PEDESTRIAN PUSH BUTTON



**PLAN VIEW
PLACEMENT OF STREET FIXTURES**

(ITEMS NOT INTENDED FOR PUBLIC USE. MINIMUM 4' x 4' CLEAR GROUND SPACE REQUIRED AT PUBLIC USE FIXTURES.)



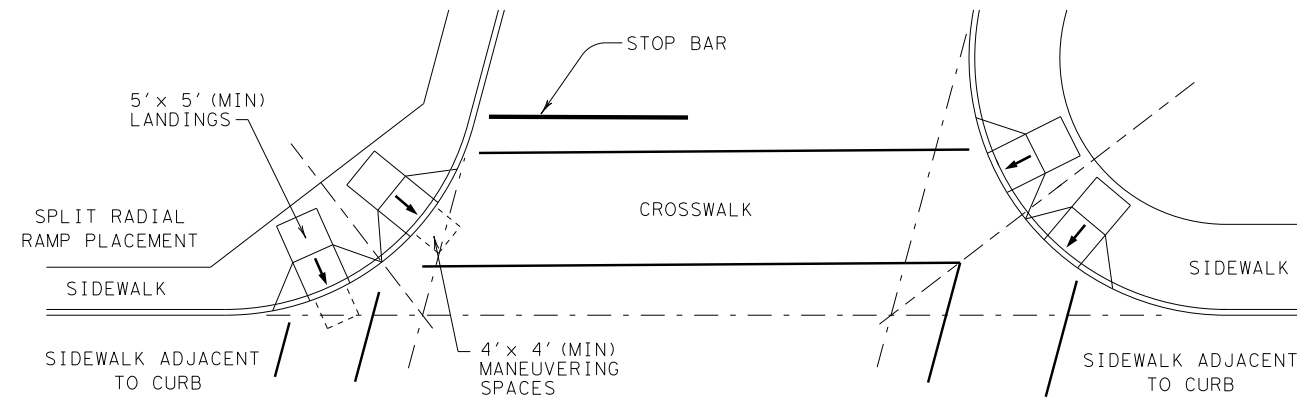
When an obstruction of a height greater than 27" from the surface would create a protrusion of more than 4" into the pedestrian circulation area, construct additional curb or foundation at the bottom to provide a maximum 4" overhang.

Protruding objects of a height ≤ 27 " are detectable by cane and do not require additional treatment.

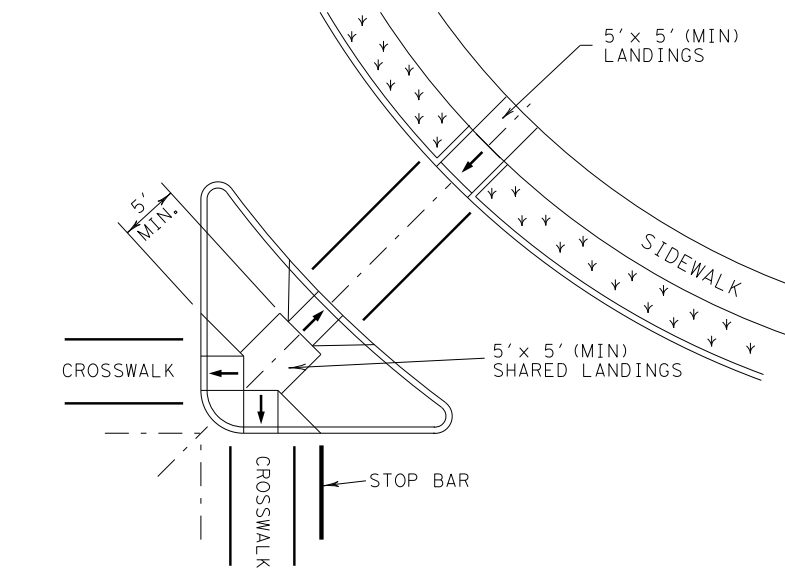
DETECTION BARRIER FOR VERTICAL CLEARANCE < 80"

		Design Division Standard	
PEDESTRIAN FACILITIES CURB RAMPS			
PED-12A			
FILE: ped12a.dgn	DN: TxDOT	CK: RM	DW: TxDOT
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REVISIONS		HIGHWAY	
VP June 13, 2012	DIST	COUNTY	SHEET NO.

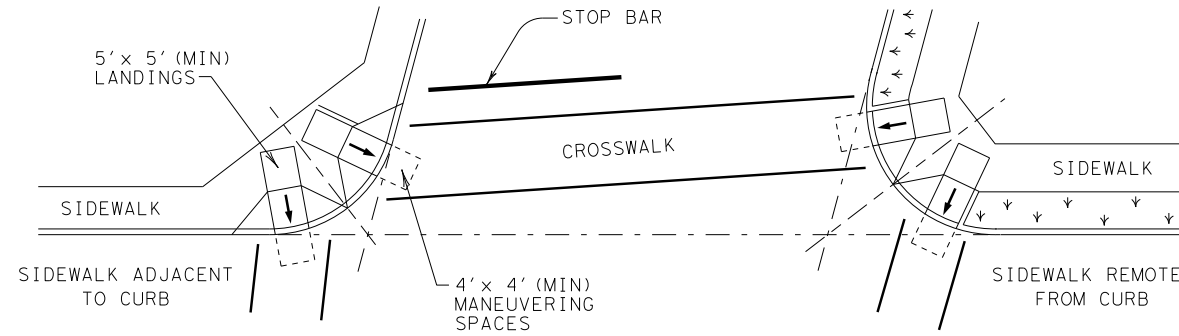
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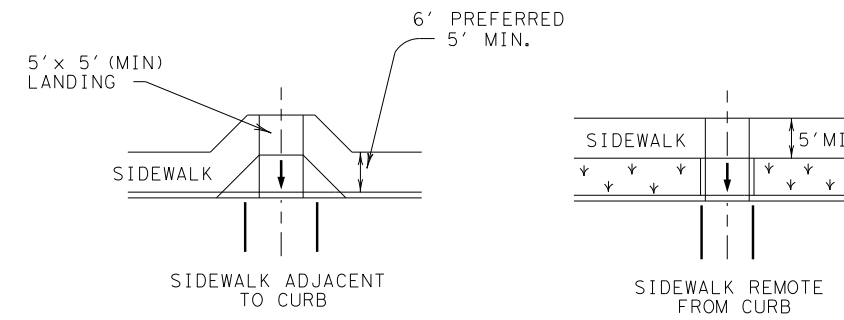
SKewed INTERSECTION WITH "LARGE" RADIUS



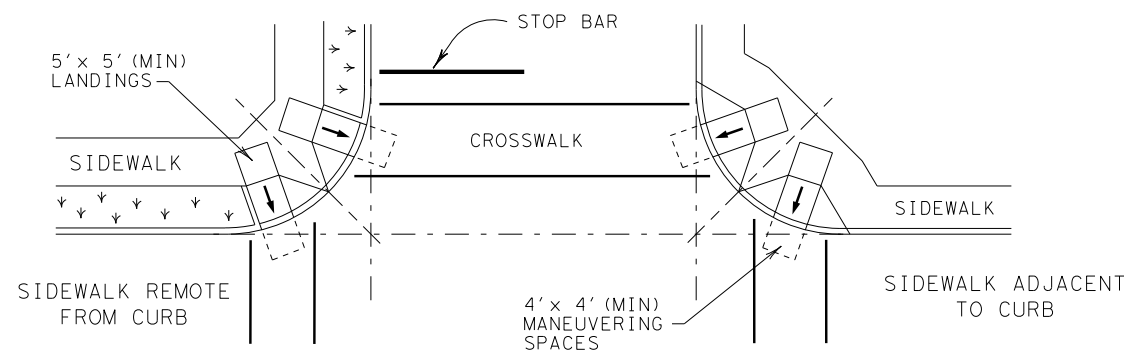
AT INTERSECTION W/FREE RIGHT TURN & ISLAND



SKewed INTERSECTION WITH "SMALL" RADIUS



MID-BLOCK PLACEMENT PERPENDICULAR RAMPS



NORMAL INTERSECTION WITH "SMALL" RADIUS

TYPICAL CROSSING LAYOUTS

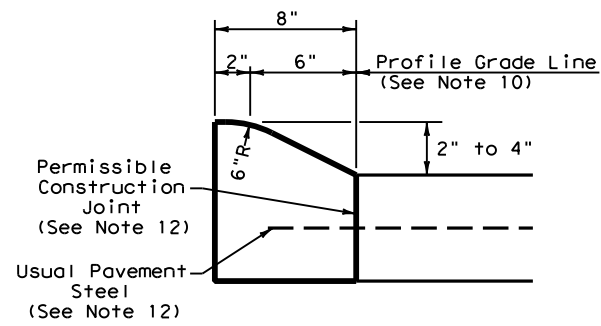
**PEDESTRIAN FACILITIES
CURB RAMPS**

PED-12A

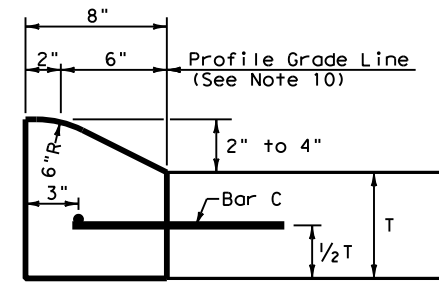
FILE: ped12a.dgn	DN: TxDOT	CK: RM	DW: TxDOT	CK: VP
© TxDOT March 2002	CONT	SECT	JOB	HIGHWAY
REVISIONS				
VP June 13, 2012	DIST	COUNTY	SHEET NO.	

DISCLAIMER: The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

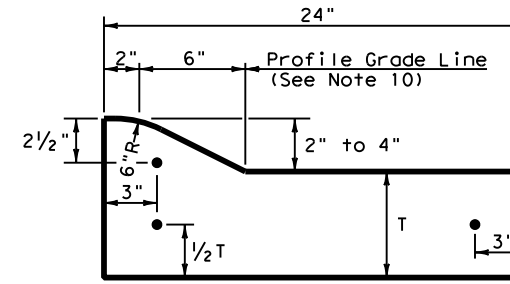
DATE: FILE:



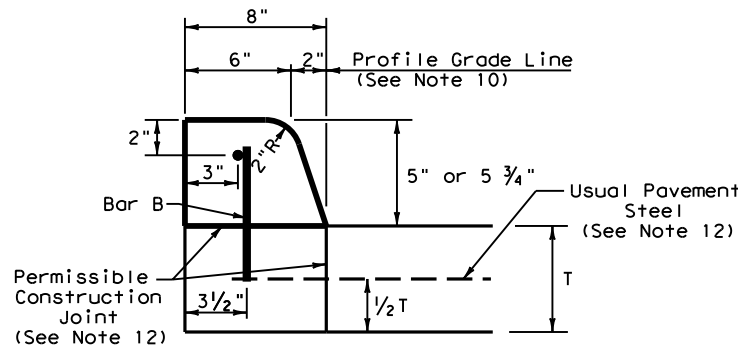
TYPE I CURB (MONOLITHIC)
2" - 4" HEIGHT



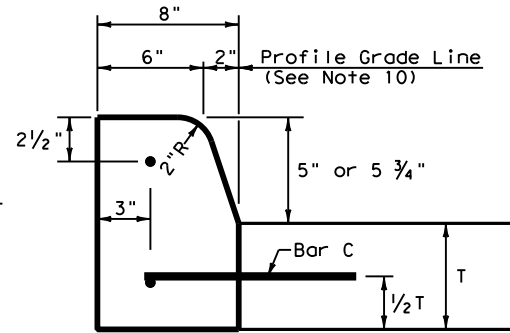
TYPE I CURB
2" - 4" HEIGHT



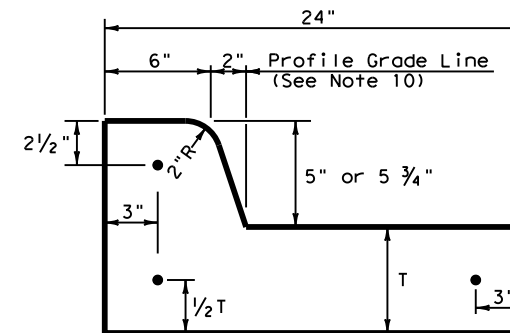
TYPE I CURB AND GUTTER
2" - 4" HEIGHT



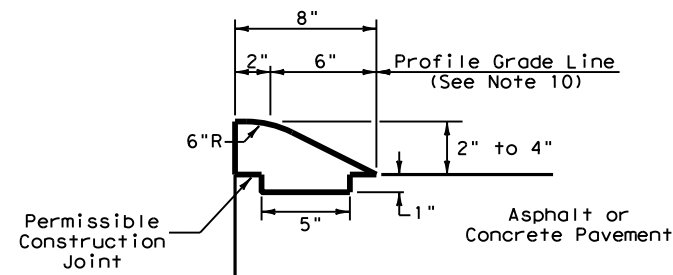
TYPE II CURB (MONOLITHIC)
5" - 5 3/4" HEIGHT



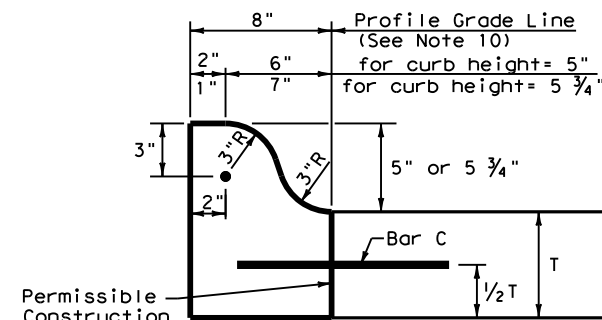
TYPE II CURB
5" - 5 3/4" HEIGHT



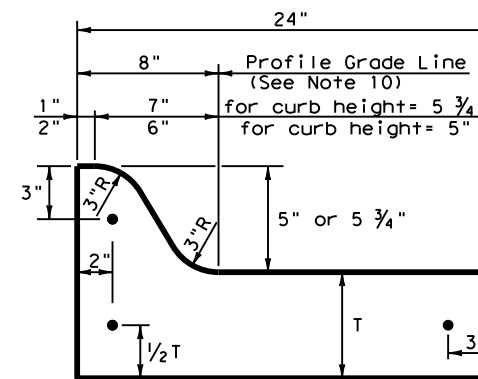
TYPE II CURB AND GUTTER
5" - 5 3/4" HEIGHT



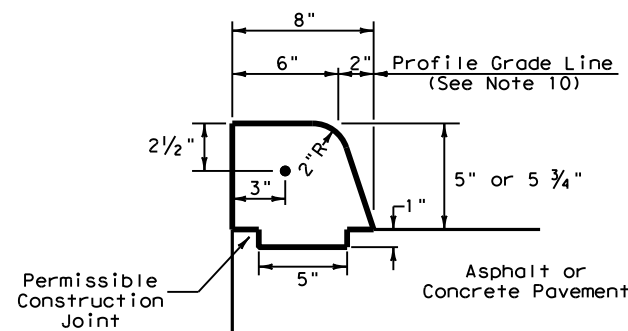
TYPE III CURB (KEYED)
2" - 4" HEIGHT



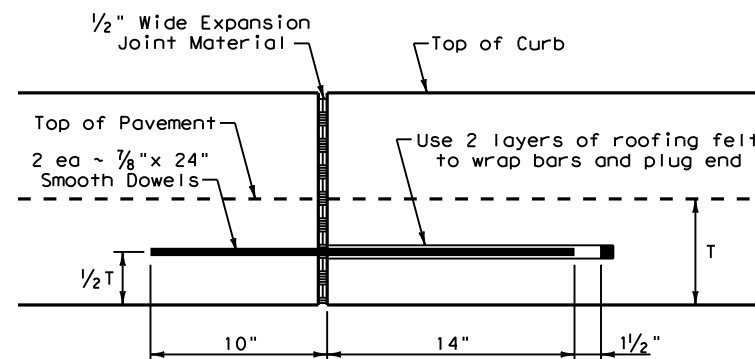
TYPE IIa CURB
5" - 5 3/4" HEIGHT



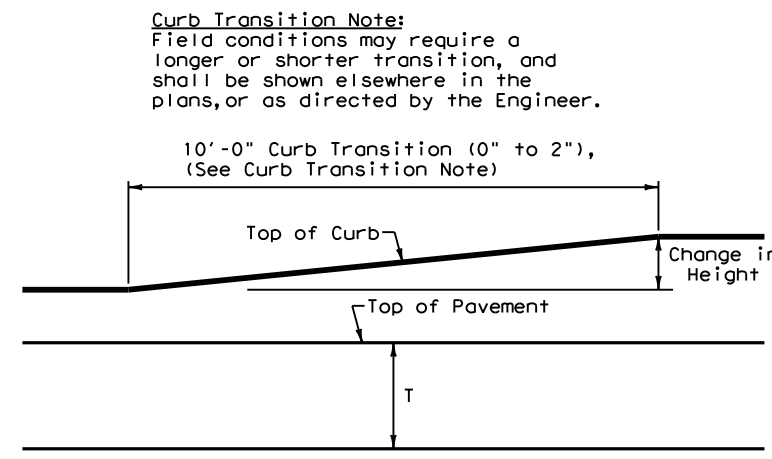
TYPE IIa CURB AND GUTTER
5" - 5 3/4" HEIGHT



TYPE IV CURB (KEYED)
5" - 5 3/4" HEIGHT



EXPANSION JOINT DETAIL

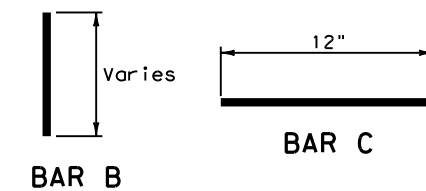


CURB TRANSITION

Note: To be paid for as Highest Curb

General Notes

- All materials and construction shall be in accordance with Item 529, "Concrete Curb, Gutter, and Combined Curb and Gutter."
- Concrete shall be Class A.
- When reinforcing bars are used, they shall be No.4 unless otherwise shown. The use of synthetic fiber in lieu of steel reinforcing is acceptable, provided the fiber producer is on the Department Producer List (MPL), maintained by TxDOT, Construction Division.
- Round exposed sharp edges with a rounding tool, to a minimum radius of 1/4 inch.
- All existing curbs and driveways to be removed shall be sawed or removed at existing joints.
- Where concrete curb is placed on existing concrete pavement, the pavement shall be drilled and the reinforcing bars grouted in place.
- Expansion and contraction joints shall be constructed to match pavement joints in all curbs and curb and gutter adjacent to jointed concrete pavement. Where placement of curb or curb and gutter is not adjacent to concrete pavement, expansion joints shall be provided at structures, curb returns at streets, and at locations directed by The Engineer.
- Vertical and horizontal dowel bars and transverse reinforcing bars shall be placed at four feet C-C.
- Dimension 'T' shown is the thickness of concrete pavement. When curb is installed adjacent to flexible pavement dimension 'T' is 8" maximum.
- Usual profile grade line. Refer to typical sections and plan-profile sheets for exact locations.
- One-half inch expansion joint material shall be provided where curb or curb and gutter is adjacent to sidewalk or riprap.
- When vertical permissible construction joints are used, resulting in a longitudinal construction joint in the pavement, the longitudinal pavement steel shall be placed in accordance with pavement details shown elsewhere in the plans for longitudinal construction joints. Reinforcing steel for curb section shall then conform to that required for concrete curb.



Curb Transition Note:
Field conditions may require a longer or shorter transition, and shall be shown elsewhere in the plans, or as directed by the Engineer.

		Design Division Standard	
<h2>CONCRETE CURB AND GUTTER</h2> <h3>CCCG-12</h3>			
FILE: ccog12.dgn	DN: TxDOT	CK: AM	DW: VP
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UPDATED 2012 - VP	REVISIONS		HIGHWAY
DIST	COUNTY	SHEET NO.	