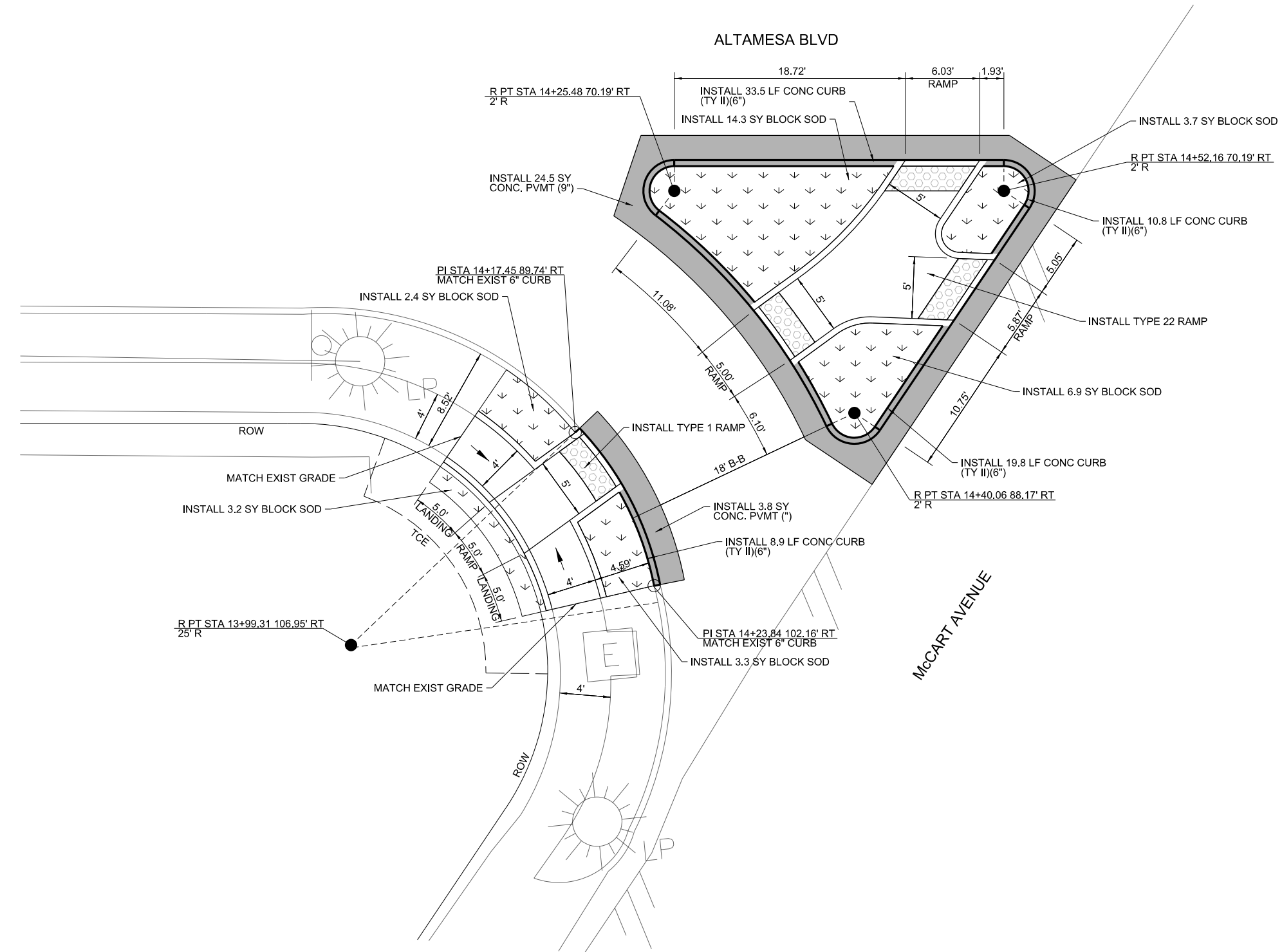
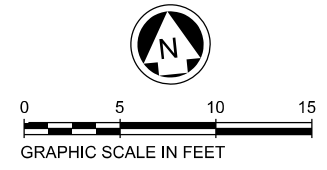


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 K:\2017\17004.01 CFW_McCart...Altamesa_CAD\CIVIL\SHEETS\M408 - SW CORNER RAMPS.dgn

NOTES:
 1. TYPICAL SECTION STATIONS ARE FROM CENTERLINE McCART AVE UNLESS OTHERWISE NOTED.

NOTE:
 CONCRETE PAVEMENT IS TO HAVE 3600 psi 28-DAY MIN. COMPRESSIVE STRENGTH WITH NO. 4 BARS SPACED ON 18-INCH INTERVALS IN BOTH DIRECTIONS.

CFW MON 8309 N 6919862.06 E 2318060.05 EL = 743.06	CP #52 CAPPED IRON ROD SET N 6921683 E 2317470 EL = 745.02
CP #50 CAPPED IRON ROD SET N 6921187 E 2317157 EL = 749.04	CP #53 CAPPED IRON ROD SET N 6921270 E 2316408 EL = 769.59
CP #51 CAPPED IRON ROD SET N 6921134 E 2317579 EL = 738.81	CP #54 CAPPED IRON ROD N 6920747 E 2316690 758.90



LEGEND

	CONC PVMT (JOINTED-CPCD) (9")
	CONC SIDEWALK/RAMP (4")
	BLOCK SODDING

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 TBPE Reg #F351



**SIDEWALK & RAMP DETAIL
 SOUTHWEST CORNER**

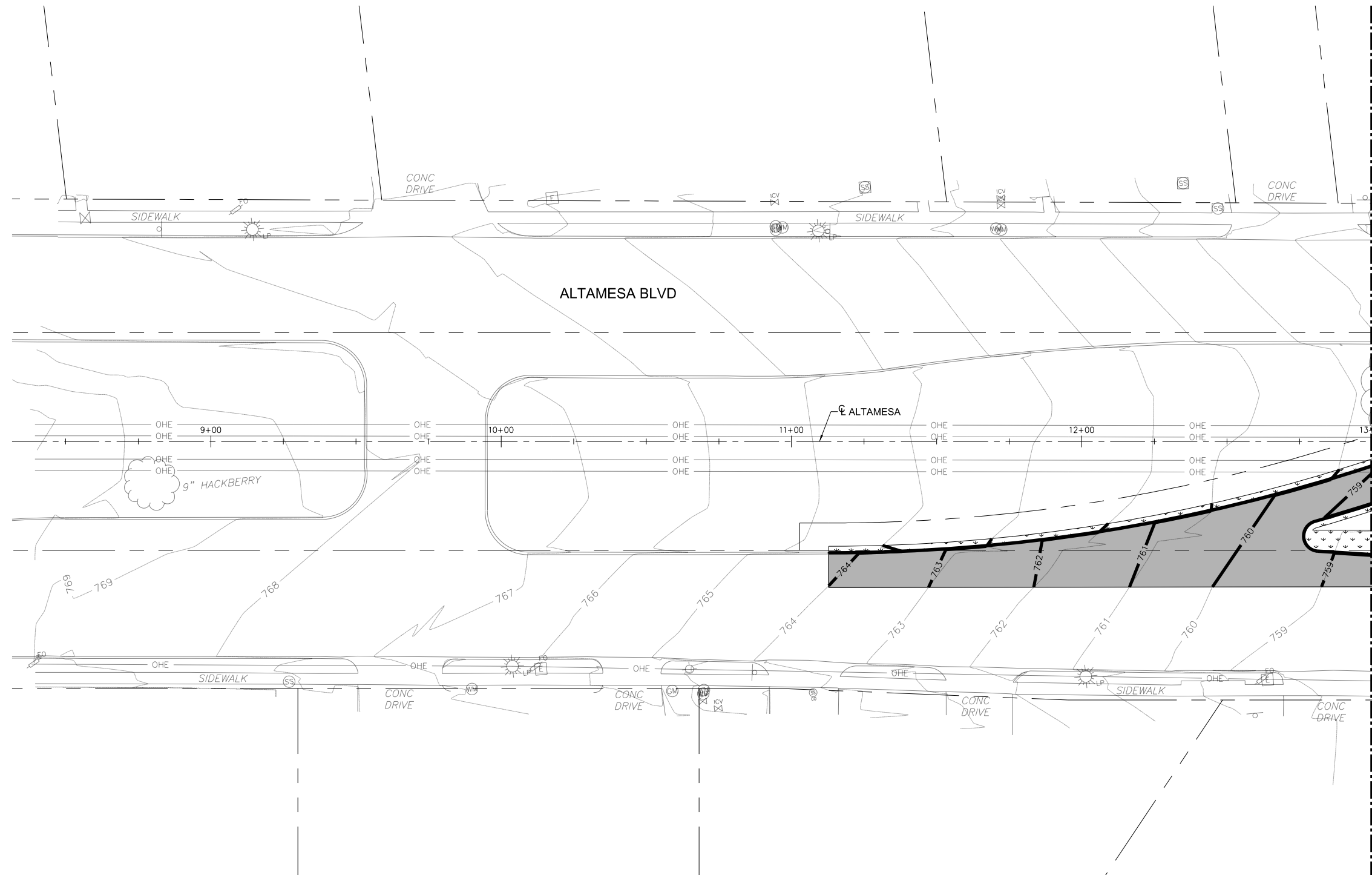
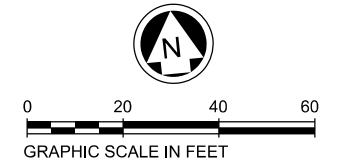
SHEET 4 OF 4

REVISIONS	FED. RD. DIV. NO.	STATE AID PROJECT NO.		SHEET NO.
	6	SEE TITLE SHEET		76
	STATE	DISTRICT	COUNTY	
	TEXAS	FTW	TARRANT	
	CONTROL	SECTION	JOB	HIGHWAY NO.
	0902	90	119	McCART
	0902	90	192	

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LEGEND
 - 761 - - - - - EXIST CONTOUR
 ——— 761 ——— PROP CONTOUR

CFW MON 8309 N 6919862.06 E 2318060.05 EL = 743.06	CP #52 CAPPED IRON ROD SET N 6921683 E 2317470 EL = 745.02
CP #50 CAPPED IRON ROD SET N 6921187 E 2317157 EL = 749.04	CP #53 CAPPED IRON ROD SET N 6921270 E 2316408 EL = 769.59
CP #51 CAPPED IRON ROD SET N 6921134 E 2317579 EL = 738.81	CP #54 CAPPED IRON ROD N 6920747 E 2316690 758.90



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**GRADING PLAN
 ALTAMESA BLVD
 BEGIN PROJECT TO STA 13+00**

SHEET 1 OF 4

REVISIONS	FED. RD. DIV. NO.	STATE AID PROJECT NO.		SHEET NO.
	6	SEE TITLE SHEET		
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	TEXAS	FTW	TARRANT	
CONTROL	SECTION	JOB	HIGHWAY NO.	
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 - 761 - - - - - PROP CONTOUR

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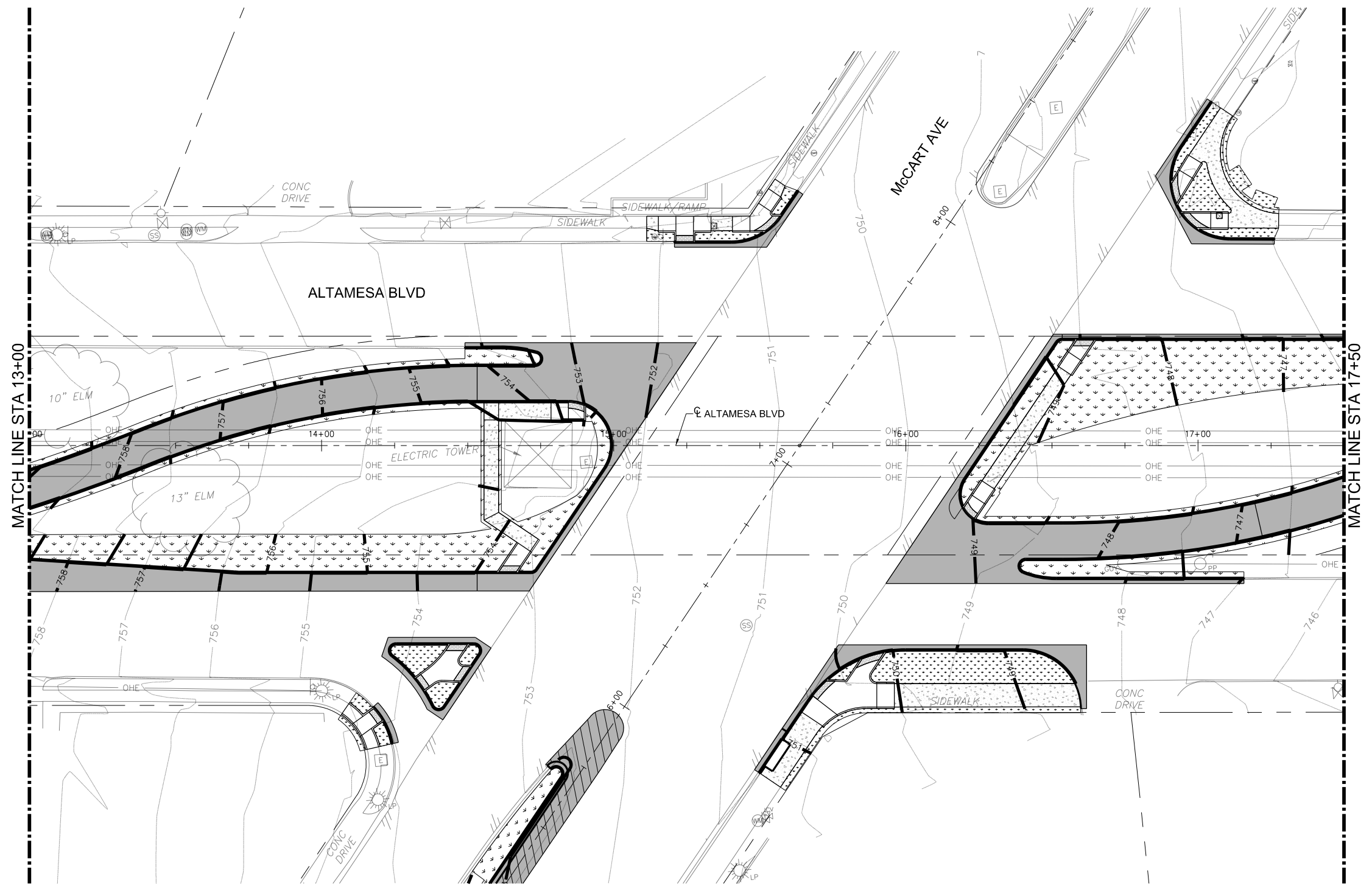
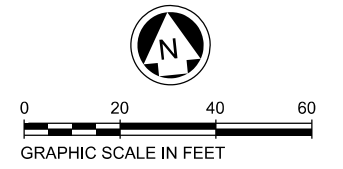
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 E 2317470
 EL = 745.02

CP #50
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 N 6921187
 E 2317157
 EL = 749.04

CP #53
 CAPPED IRON ROD SET
 N 6921270
 E 2316408
 EL = 769.59

CP #51
 CAPPED IRON ROD SET
 N 6921134
 E 2317579
 EL = 738.81

CP #54
 CAPPED IRON ROD
 N 6920747
 E 2316690
 758.90



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**GRADING PLAN
 ALTAMESA BLVD
 STA 13+00 TO STA 17+50**

SHEET 2 OF 4

REVISIONS	FED. RD. DIV. NO.	STATE AID PROJECT NO.		SHEET NO.
	6	SEE TITLE SHEET		78
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	TEXAS	FTW	TARRANT	
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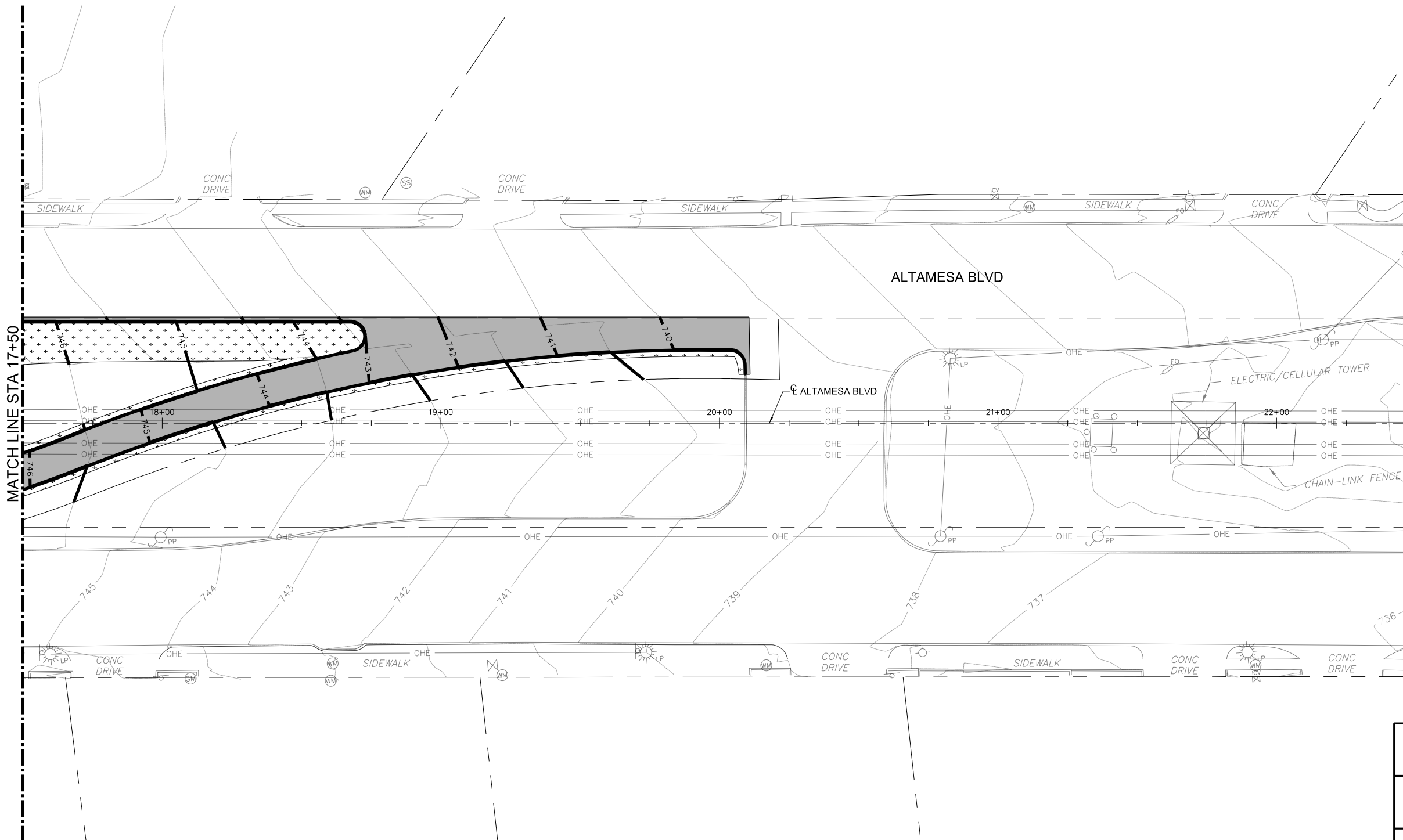
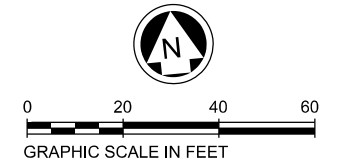
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 EL = 749.04

CP #53
 CAPPED IRON ROD SET
 N 6921270
 E 2316408
 EL = 769.59

CP #51
 CAPPED IRON ROD SET
 N 6921134
 E 2317579
 EL = 738.81

CP #54
 CAPPED IRON ROD
 N 6920747
 E 2316690
 758.90



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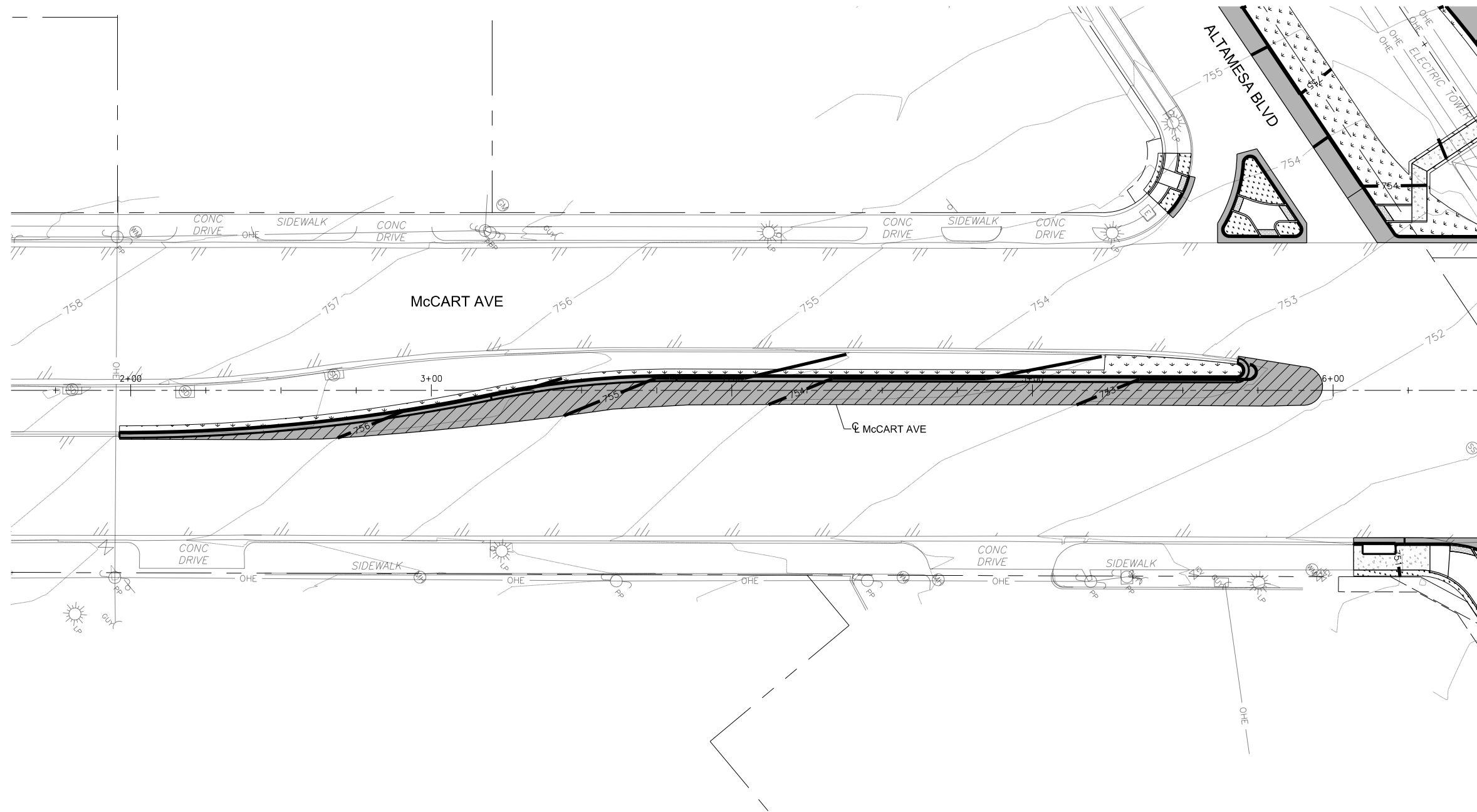


**GRADE PLAN
 ALTAMESA BLVD
 STA 17+50 TO END PROJECT**

SHEET 3 OF 4

REVISIONS	FED. RD. DIV. NO.	STATE AID PROJECT NO.		SHEET NO.
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0902	90	192		

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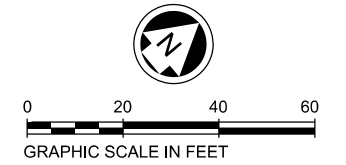
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 EL = 738.81

CP #52
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 EL = 745.02

CP #53
 CAPPED IRON ROD SET
 N 6921270
 E 2316408
 EL = 769.59

CP #54
 CAPPED IRON ROD
 N 6920747
 E 2316690
 758.90



LEGEND

— 761 — EXIST CONTOUR

— 761 — PROP CONTOUR

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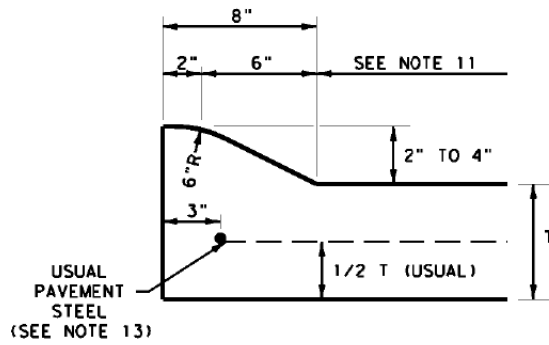
GRADING PLAN McCART AVE

SHEET 4 OF 4

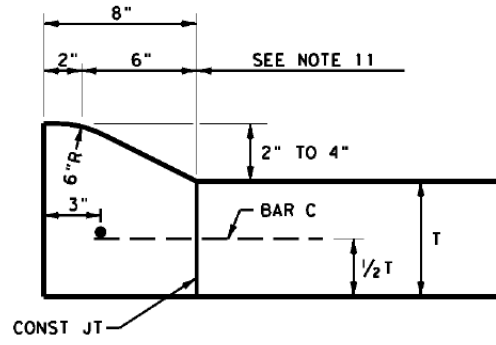
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	CONTROL	SECTION	JOB	HIGHWAY NO.
	0902	90	119	McCART
	0902	90	192	

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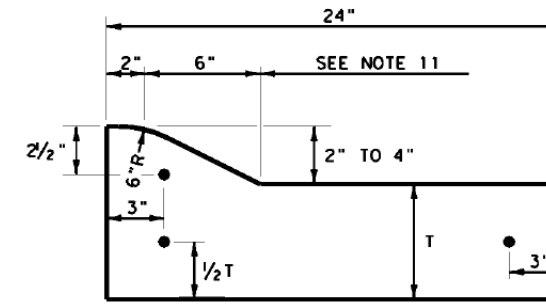
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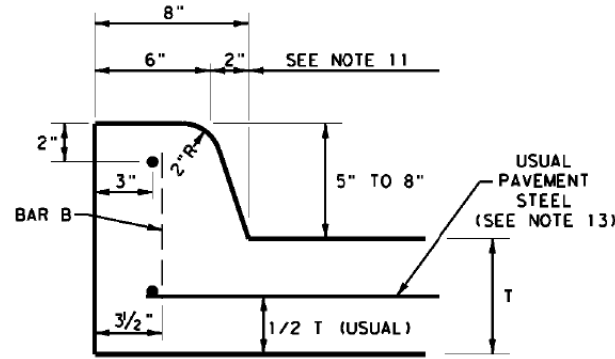
**TYPE I CURB (MONOLITHIC)
2" - 4" HEIGHT**



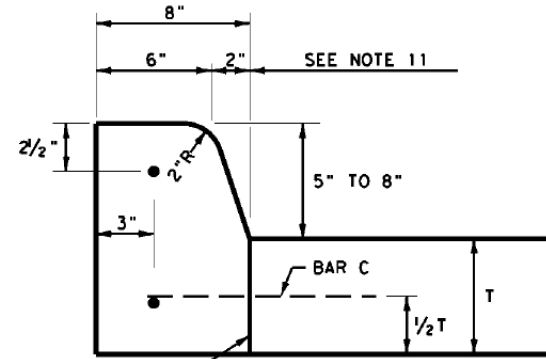
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2" - 4" HEIGHT**



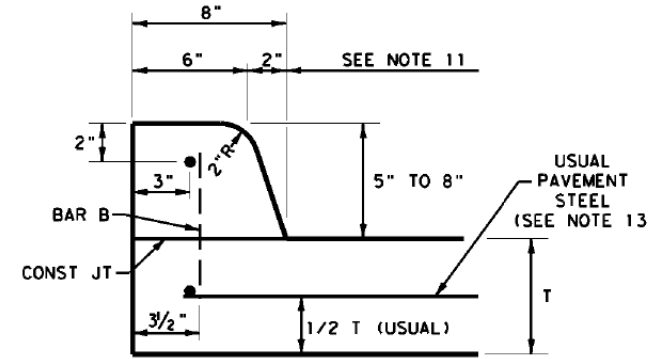
**TYPE I CURB AND GUTTER
2" - 4" HEIGHT**



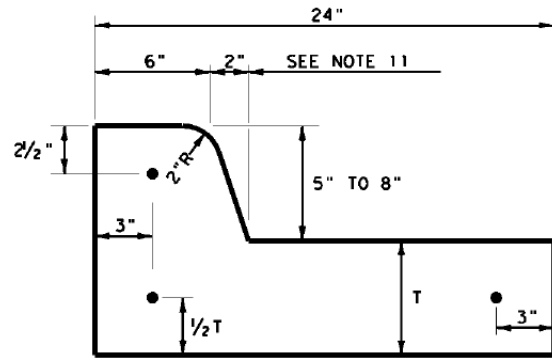
**TYPE II CURB (MONOLITHIC)
5" - 8" HEIGHT**



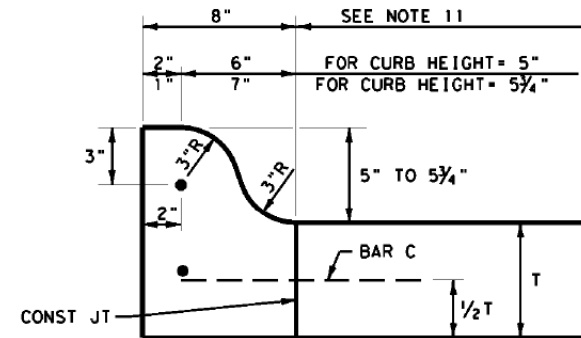
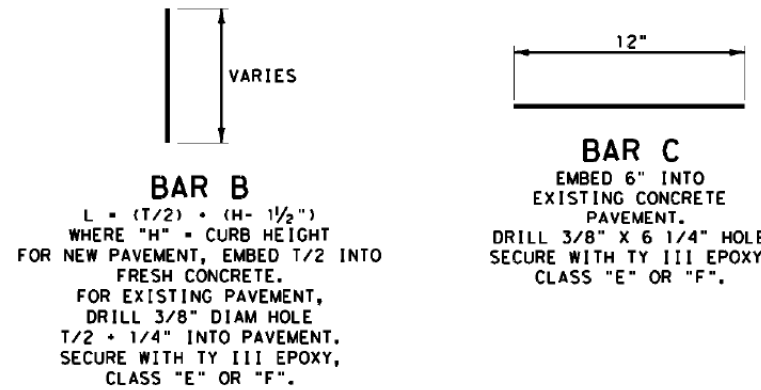
**TYPE II CURB
5" - 8" HEIGHT
DOWELED VERTICAL JOINT**



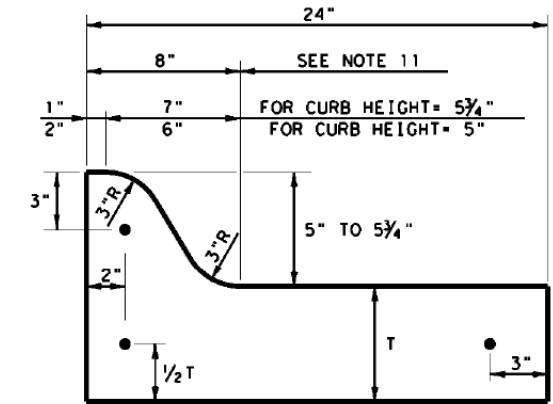
**TYPE II CURB
5" - 8" HEIGHT
DOWELED HORIZONTAL JOINT**



**TYPE II CURB AND GUTTER
5" - 8" HEIGHT**



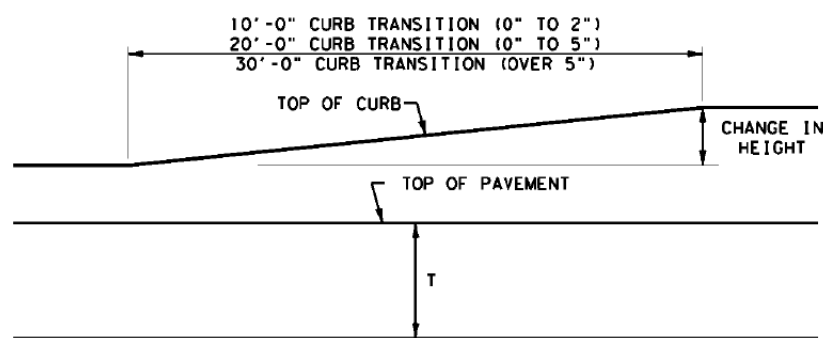
**TYPE IIA CURB
5" - 5 3/4" HEIGHT**



**TYPE IIA CURB AND GUTTER
5" - 5 3/4" HEIGHT**

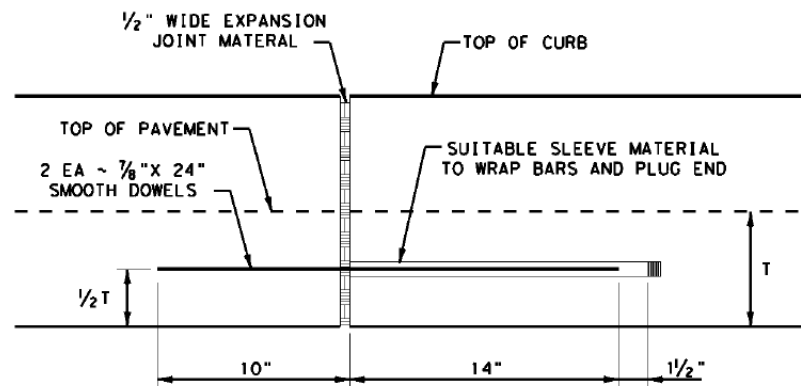
GENERAL NOTES

1. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH ITEM 529, "CONCRETE CURB, GUTTER, AND COMBINED CURB AND GUTTER".
2. ALL CONCRETE SHALL BE CLASS "A".
3. ALL REINFORCING BARS SHALL BE #4, UNLESS OTHERWISE SHOWN.
4. CURB HEIGHT SHALL BE AS SHOWN ON TYPICAL SECTIONS OR PLAN-PROFILE SHEETS.
5. ROUND EXPOSED SHARP EDGES WITH A ROUNDING TOOL, TO A MINIMUM RADIUS OF 1/4".
6. ALL EXISTING CURBS AND DRIVEWAYS TO BE REMOVED SHALL BE SAW CUT FULL DEPTH OR REMOVED AT EXISTING JOINTS.
7. WHERE CONCRETE CURB IS PLACED ON EXISTING CONCRETE PAVEMENT, THE PAVEMENT SHALL BE DRILLED AND THE REINFORCING BARS GROUTED OR EPOXIED IN PLACE.
8. EXPANSION AND CONTRACTION JOINTS SHALL BE CONSTRUCTED TO MATCH PAVEMENT JOINTS IN ALL CURBS OR 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 OR DRIVEWAYS, AND AT LOCATIONS DIRECTED BY THE ENGINEER.
9. VERTICAL AND HORIZONTAL DOWELS BARS AND TRANSVERSE REINFORCING BARS SHALL BE PLACED AT 4' C-C.
10. DIMENSION "T" SHOWN IS THE THICKNESS OF ADJACENT CONCRETE PAVEMENT, OR, WHEN CURB IS INSTALLED ADJACENT TO FLEXIBLE PAVEMENT, "T" IS 6" MINIMUM, 8" MAXIMUM.
11. USUAL PROFILE GRADE LINE, REFER TO TYPICAL SECTIONS AND PLAN-PROFILE SHEETS FOR EXACT LOCATIONS.
12. A SEALED, 1/2" EXPANSION JOINT SHALL BE PROVIDED WHERE CURB AND GUTTER IS ADJACENT TO SIDEWALK OR RIPRAP.
13. LONGITUDINAL AND TRANSVERSE PAVEMENT STEEL SHALL BE PLACED IN ACCORDANCE WITH PAVEMENT DETAILS SHOWN ELSEWHERE IN THE PLANS.



CURB TRANSITION

NOTE: TO BE PAID FOR AS HIGHEST CURB

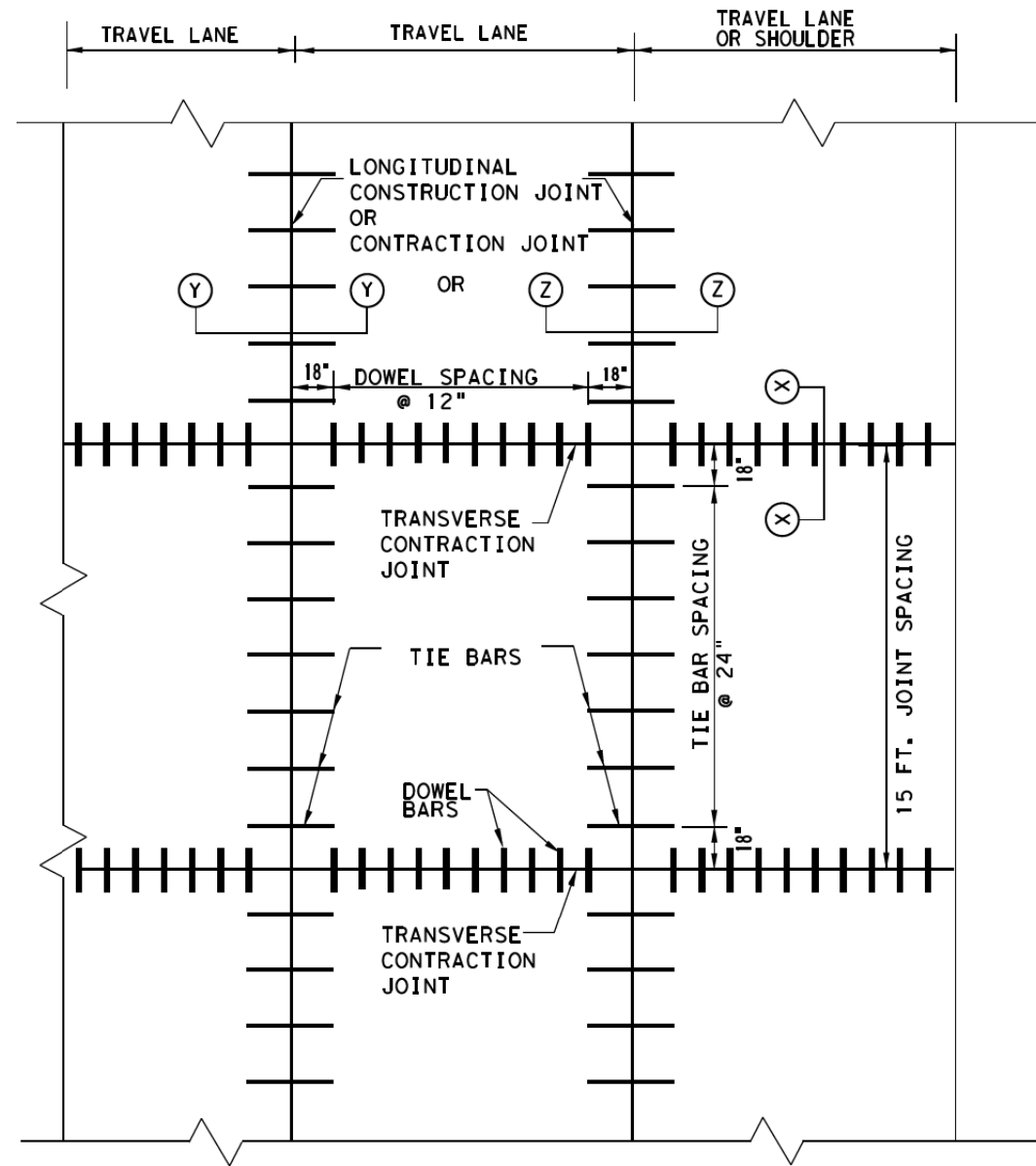
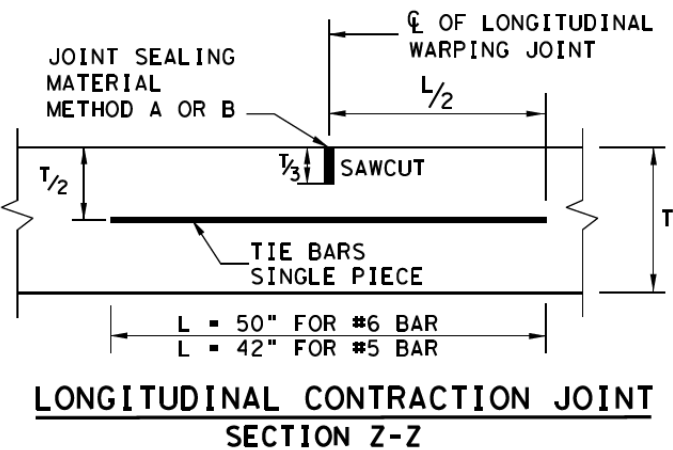
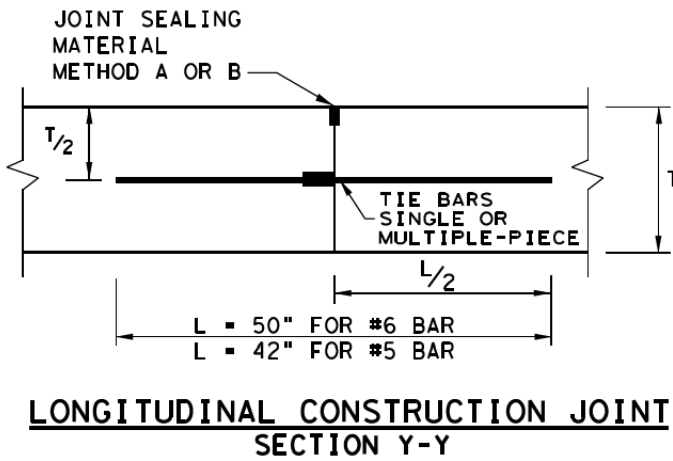
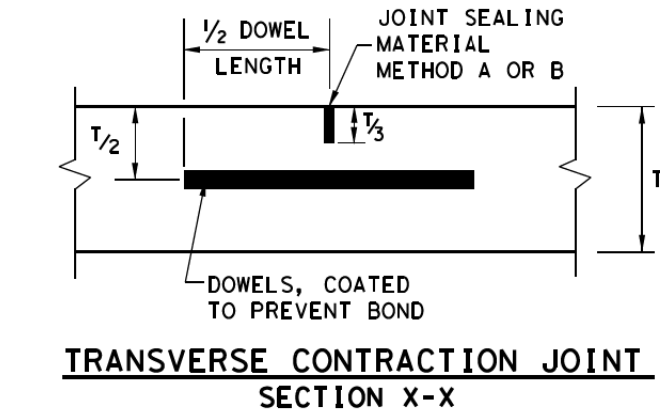


EXPANSION JOINT DETAIL

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		Fort Worth District Standard	
CONCRETE CURB AND CURB AND GUTTER DETAILS CCCG (FTW)			
ORIGINAL DRAWING: 05/2019	cccog-ftw.dgn	FED. DIST. NO. 6	PROJECT NO. SEE TITLE SHEET
DATE: 05/2019	REVISIONS: REPLACES CC-CG (FTW)	STATE: TEXAS	COUNTY: TARRANT
		STATE DIST. NO. FTW	
		CURT. NO. 0902	SECTION: 90
		JOB NO. 119	HIGHWAY NO. 192
			McCART
			SHEET NO. 81

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TYPICAL PAVEMENT LAYOUT
PLAN VIEW (NOT TO SCALE)

SLAB THICKNESS T (IN.)	BAR DIA. AND LENGTH	AVERAGE SPACING (IN.)
6 to 7.5	1" X 18"	12
8 to 10	1 1/4" X 18"	12
>= 10.5	1 1/2" X 18"	12

SLAB THICKNESS T (IN.)	BAR SIZE	AVERAGE SPACING (IN.)
6 to 7.5	#5	24
>= 8	#6	24

GENERAL NOTES

1. DETAILS FOR PAVEMENT WIDTH, PAVEMENT THICKNESS AND THE CROWN CROSS-SLOPE SHALL BE SHOWN ELSEWHERE IN THE PLANS. PAVEMENTS WIDER THAN 100 FT. WITHOUT A FREE LONGITUDINAL JOINT ARE NOT COVERED BY THIS STANDARD.
2. FOR FURTHER INFORMATION REGARDING THE PLACEMENT OF CONCRETE AND LOAD TRANSFER DEVICES REFER TO THE GOVERNING SPECIFICATION FOR "CONCRETE PAVEMENT".
3. THE SPACING BETWEEN TRANSVERSE CONTRACTION JOINTS SHALL BE 15 FT. UNLESS OTHERWISE SHOWN IN THE PLANS.
4. TRANSVERSE CONSTRUCTION JOINTS MAY BE FORMED BY USE OF METAL OR WOOD FORMS EQUAL IN DEPTH TO THE DEPTH OF PAVEMENT, OR BY METHODS APPROVED BY THE ENGINEER.
5. USE HAND-OPERATED IMMERSION VIBRATORS TO CONSOLIDATE THE CONCRETE ADJACENT TO ALL THE FORMED JOINTS.
6. PAVEMENT WIDTHS OF MORE THAN 15 FT. SHALL HAVE A LONGITUDINAL JOINT (SECTION Z-Z OR SECTION Y-Y). THESE JOINTS SHALL BE LOCATED WITHIN 6 IN. OF THE LANE LINE UNLESS THE JOINT LOCATION IS SHOWN ELSEWHERE ON THE PLANS.
7. THE JOINT BETWEEN OUTSIDE LANE AND SHOULDER SHALL BE A LONGITUDINAL CONTRACTION JOINT (SECTION Z-Z) UNLESS OTHERWISE SHOWN IN THE PLANS. THE SAW CUT DEPTH FOR THE LONGITUDINAL CONTRACTION JOINT (SECTION Z-Z) SHALL BE ONE THIRD OF THE SLAB THICKNESS (T/3).
8. WHEN TYING CONCRETE GUTTER AT A LONGITUDINAL JOINT, THE TIE BAR LENGTH OR POSITION MAY BE ADJUSTED. PROVIDE 3 IN. OF CONCRETE COVER FROM THE BACK OF GUTTER TO THE END OF TIE BAR.
9. REPLACE MISSING OR DAMAGED TIE BARS WITHOUT ADDITIONAL COMPENSATION BY DRILLING MIN. 10 IN. DEEP AND GROUTING TIE BARS WITH TYPE III, CLASS C EPOXY. MEET THE PULL-OUT TEST REQUIREMENTS IN ITEM 361.
10. WHEN AN MONOLITHIC CURB IS SPECIFIED, THE JOINT IN THE CURB SHALL COINCIDE WITH PAVEMENT JOINTS AND MAY BE FORMED BY ANY MEANS APPROVED BY THE ENGINEER.
11. DOWEL BAR PLACEMENT TOLERANCE SHALL BE +/- 1/4 IN. HORIZONTALLY AND VERTICALLY UNLESS OTHERWISE SPECIFIED. WHERE DOWEL BAR BASKETS ARE USED, REMOVE THE SHIPPING WIRES.
12. THE DETAIL FOR JOINT SEALANT AND RESERVOIR IS SHOWN ON STANDARD SHEET "CONCRETE PAVING DETAILS, JOINT SEALS."

SHEET 1 OF 2



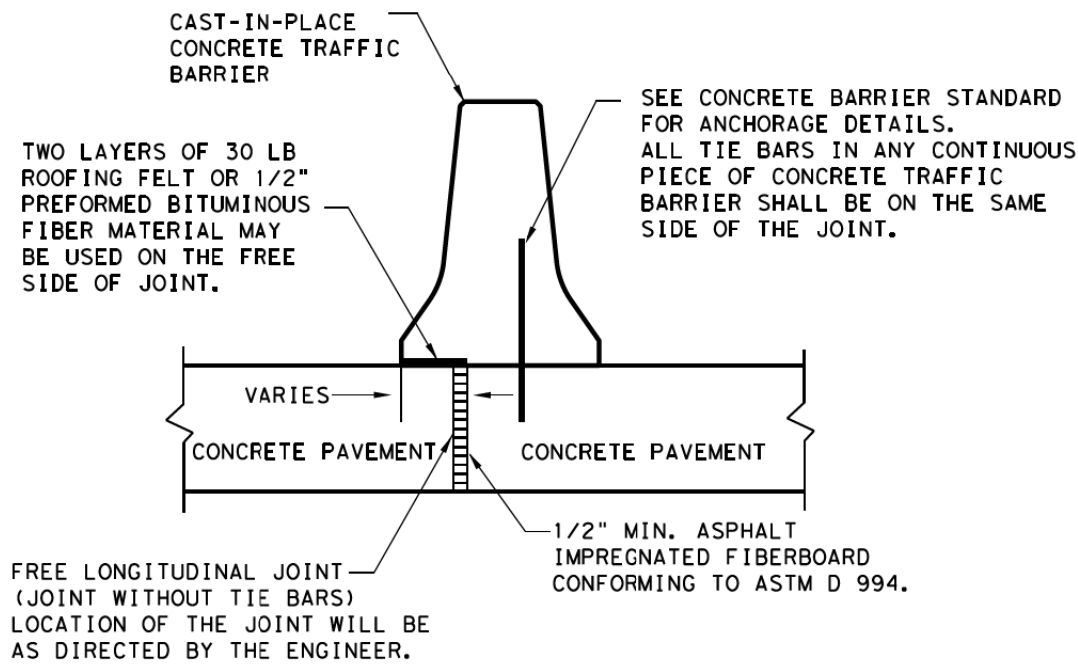
**CONCRETE PAVEMENT DETAILS
CONTRACTION DESIGN
T-6 to 12 INCHES**

CPCD-14

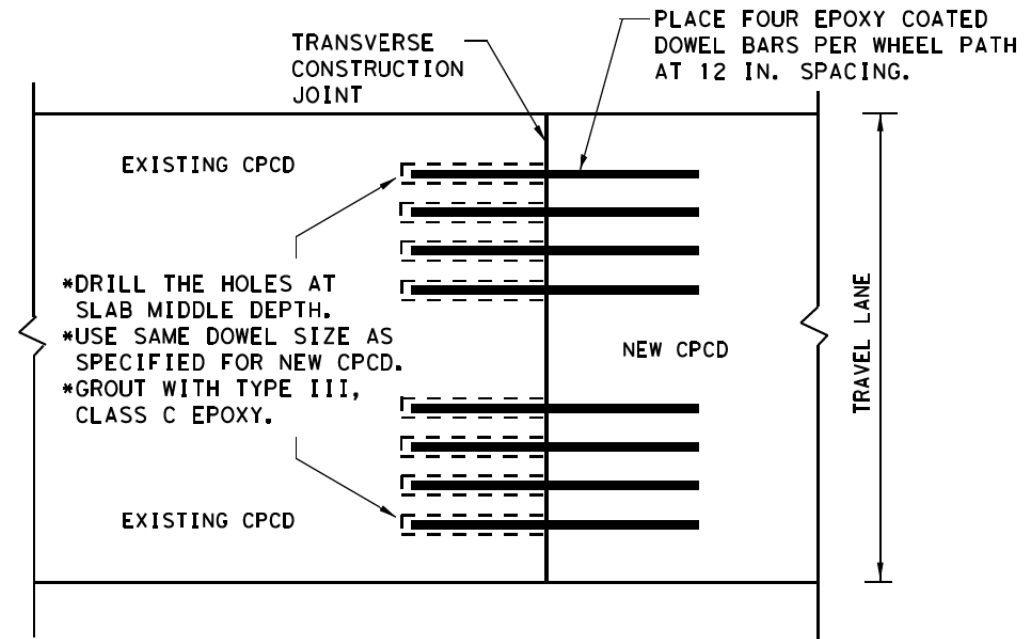
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© TxDOT: DECEMBER 2014	CONT	SECT	JOB	HIGHWAY
REVISIONS	0902	90	119	McCART
	DIST	COUNTY	SHEET NO.	
	FTW	TARRANT	82	

DATE: FILE:

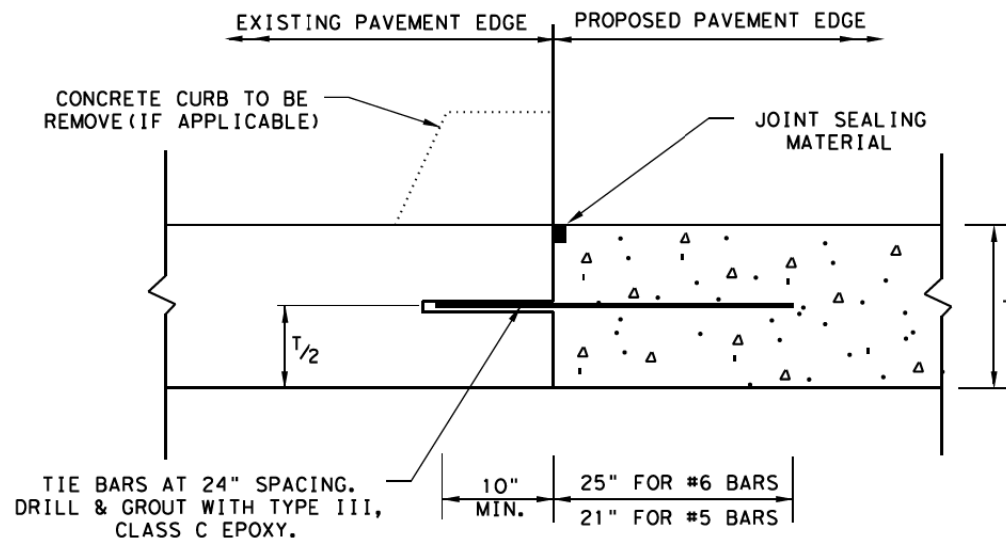
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FREE LONGITUDINAL JOINT DETAIL

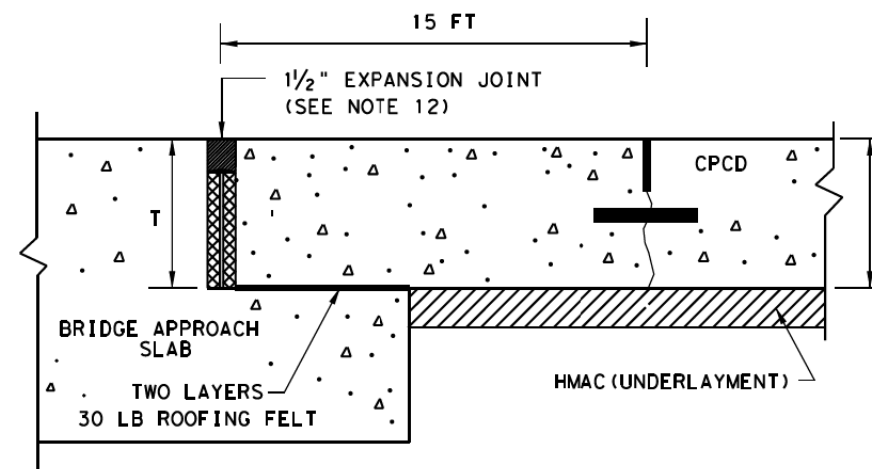


**TRANSVERSE JOINT DETAIL
EXISTING CPCD TO NEW CPCD
PLAN VIEW (NOT TO SCALE)**



1. BEFORE WIDENING WORK, DEMONSTRATE THAT THE BOND STRENGTH OF THE EPOXY-GROUTED TIE BARS MEETS THE REQUIREMENTS OF PULL-OUT TEST SPECIFIED IN ITEM 361.
2. SPACE TIE BARS AT 24" SPACING. USE #6 BARS FOR 8" AND THICKER SLABS, USE #5 BARS FOR LESS THAN 8" THICK SLABS.
3. THE TRANSVERSE JOINTS OF PROPOSED PAVEMENT SHALL COINCIDE WITH EXISTING PAVEMENT JOINTS UNLESS OTHERWISE SHOWN ON THE PLANS.

LONGITUDINAL WIDENING JOINT DETAIL



**TRANSVERSE EXPANSION JOINT DETAIL
AT BRIDGE APPROACH**

SHEET 2 OF 2



**CONCRETE PAVEMENT DETAILS
CONTRACTION DESIGN
T-6 to 12 INCHES**

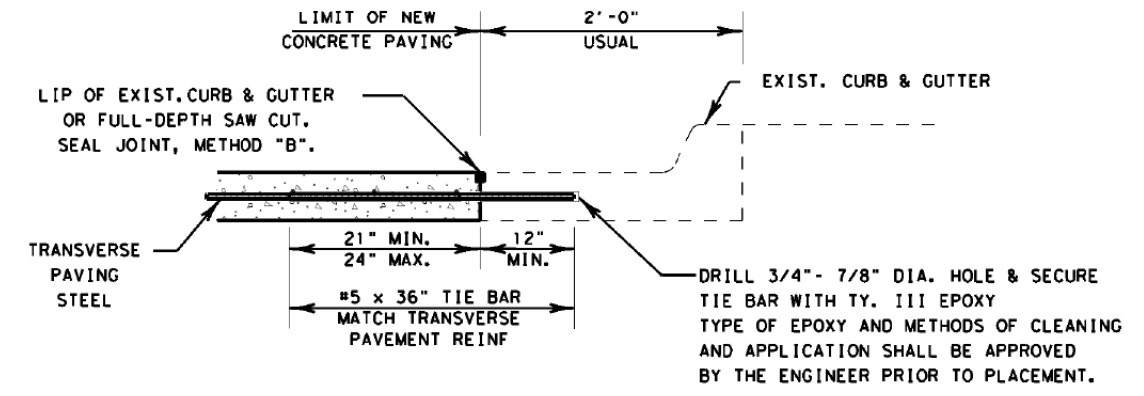
CPCD-14

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	DIST	COUNTY	SHEET NO.	
	FTW	TARRANT	83	

DATE: FILE:

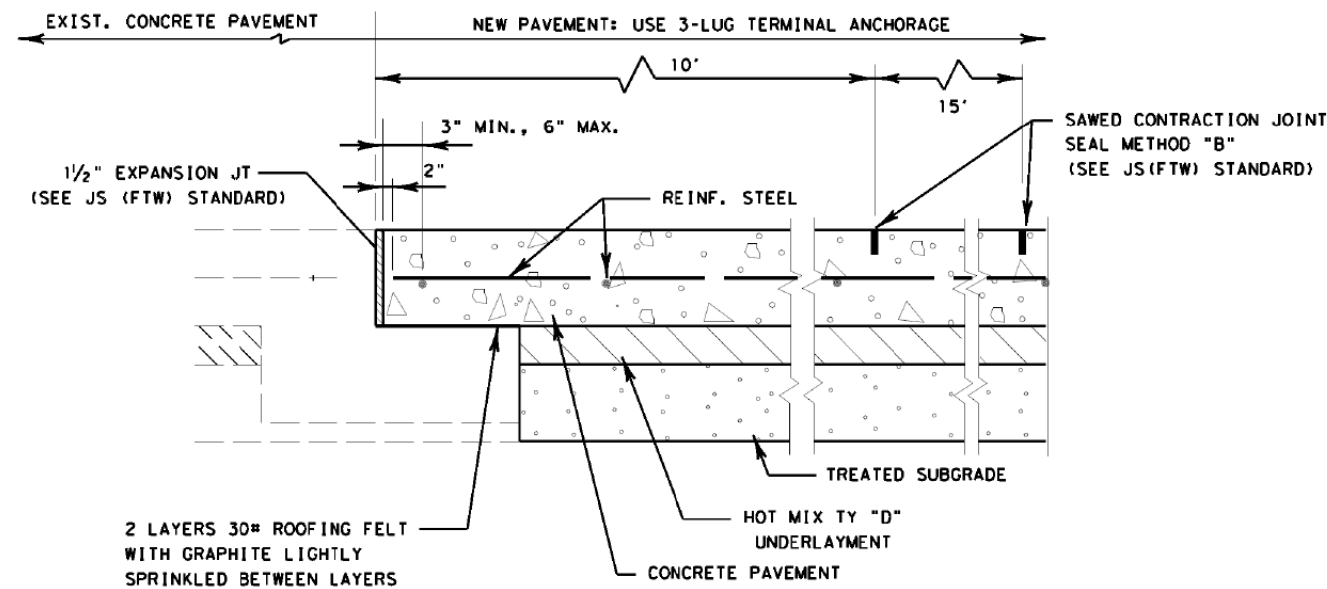
DISCLAIMER: THE USE OF THIS STANDARD IS GOVERNED BY THE "TEXAS ENGINEERING PRACTICE ACT". NO WARRANTY OF ANY KIND IS MADE BY TxDOT FOR ANY PURPOSE WHATSOEVER. TxDOT ASSUMES NO RESPONSIBILITY FOR THE CONVERSION OF THIS STANDARD TO OTHER FORMATS OR FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.

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TIE TO EXIST. CONC. CURB & GUTTER
 N. T. S.

NOTE:
 SAWING OF PAVEMENT AND REMOVAL OF EXISTING CONC. WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE SUBSIDIARY TO THE VARIOUS BID ITEMS.



TIE TO EXIST. CONCRETE PAVEMENT
 (TRANSVERSE JOINTS W/EXISTING "SLEEPER" SLAB)
 N. T. S.

GENERAL NOTES

TIE BARS SHALL BE SECURED INTO THE EXISTING CONCRETE THE MINIMUM LENGTHS SHOWN, USING TY III EPOXY, CLASS "E" OR "F" AND MUST MEET THE REQUIREMENTS OF THE PULL-OUT TEST SPECIFIED IN ITEM 361.

ALL HOLES FOR TIE BARS OR CONCRETE ANCHORS SHALL BE DRILLED WITH A CORE OR ROTARY DRILL. THE USE OF HAMMER DRILLS WILL NOT BE PERMITTED.

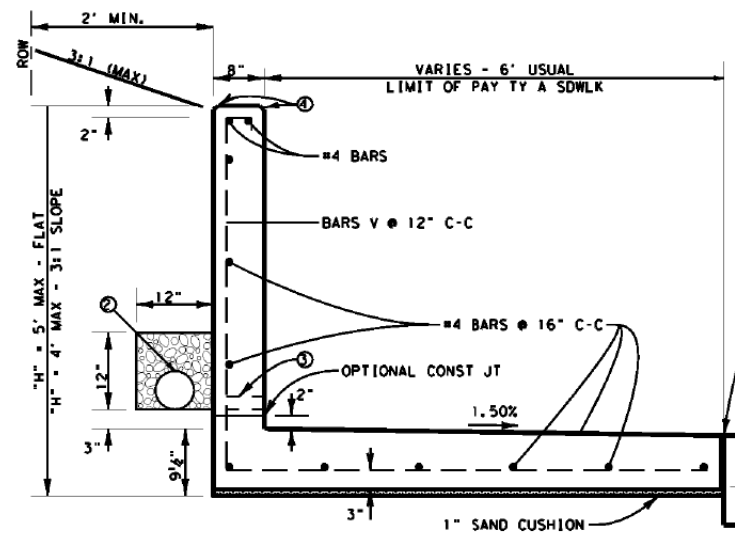
SEE CRCP STANDARD FOR ADDITIONAL DETAILS.

SEE JS (FTW) STANDARD FOR JOINT DETAILS.

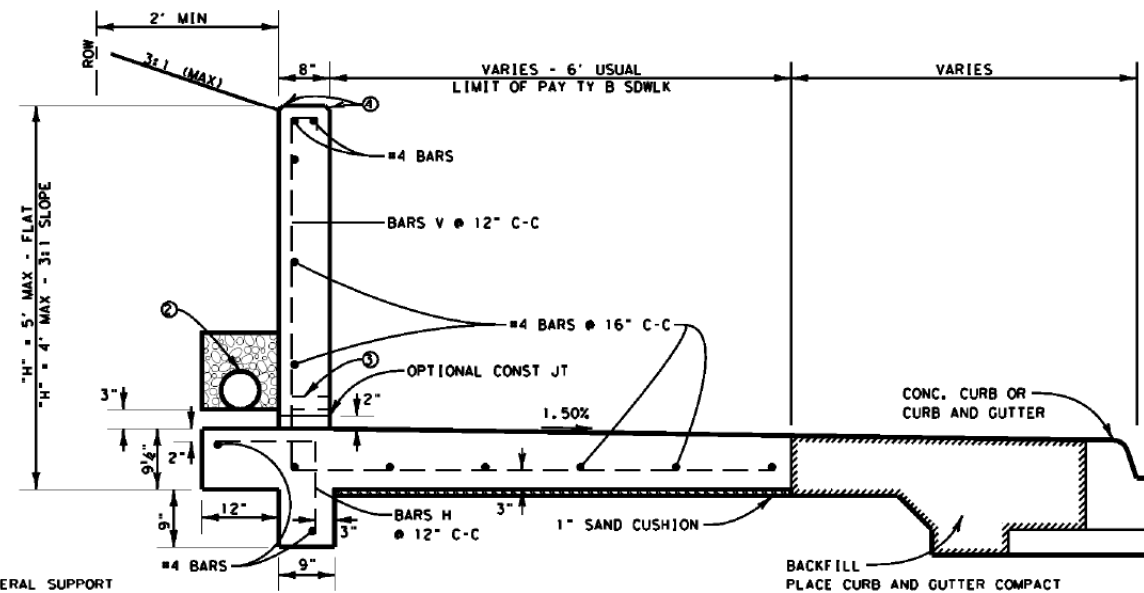
		Fort Worth District Standard	
CONCRETE PAVEMENT TIES TO EXISTING PAVEMENT CP-TEP (FTW)			
ORIGINAL DRAWING: 05/2019	cp-tp-ftp.dgn	FED. RD. DIST. NO. 6	PROJECT NO. SEE TITLE SHEET
DATE: 05/2019	REVISIONS: REPLACES CP-TEP-03(FTW)	STATE: TEXAS	SHEET NO. 84
		STATE DIST. NO. FTW	COUNTY: TARRANT
		CONF. 0902	SECT. 90
		JOB 119	HIGHWAY NO. McCART

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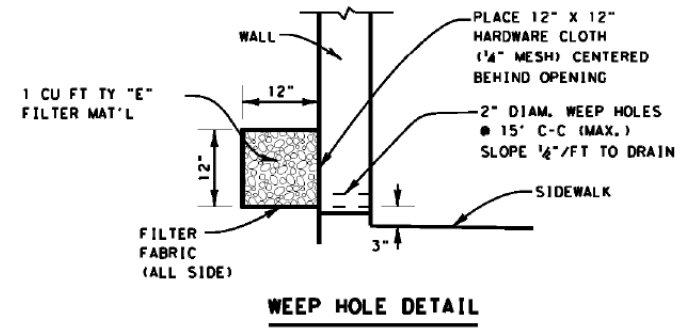
TYPE A SIDEWALK-ADJACENT TO CURB



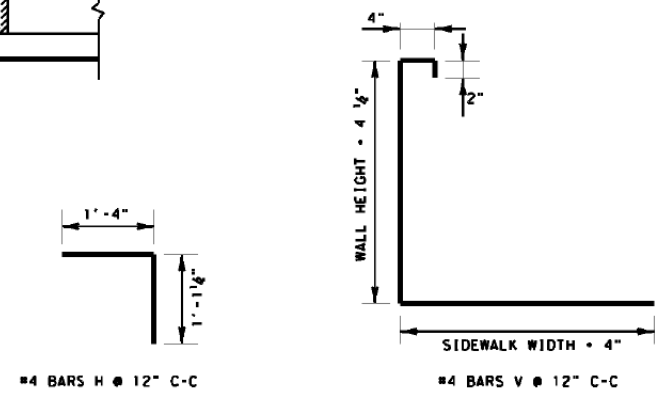
TYPE B SIDEWALK-REMOTE FROM CURB

- ① 2" MINIMUM REQUIRED FOR LATERAL SUPPORT
- ② INSTALL 6" PIPE UNDERDRAIN (TY. 5, 6, 7, OR 8) ENTIRE LENGTH OF WALL. USE TY. "E" FILTER MATERIAL. SLOPE TO DRAIN AND CONNECT TO STORM DRAIN.
- ③ IF, IN THE OPINION OF THE ENGINEER, USE OF UNDERDRAIN IS IMPRACTICAL, INSTALL WEEP HOLES AS SHOWN.
- ④ 3/4" CHAMFER

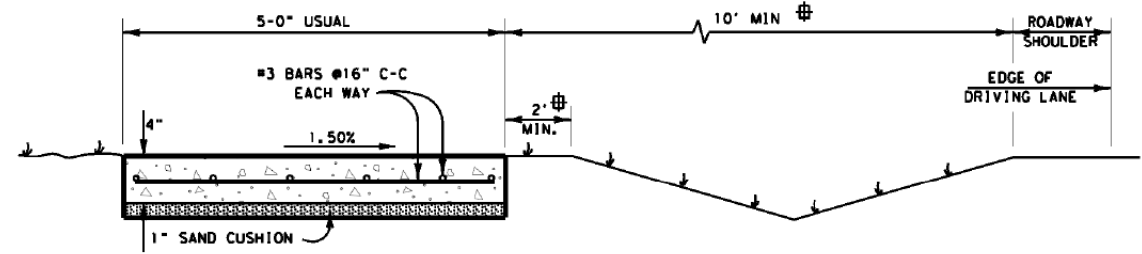
SPECIAL CONCRETE SIDEWALK w/ INTEGRATED RETAINING WALL
 N. T. S.



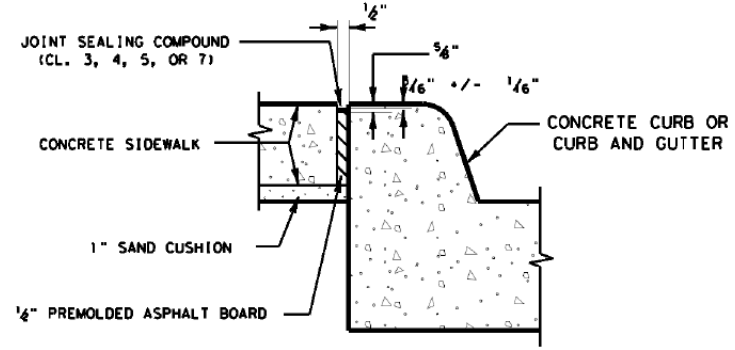
WEEP HOLE DETAIL



REINFORCING STEEL DETAILS



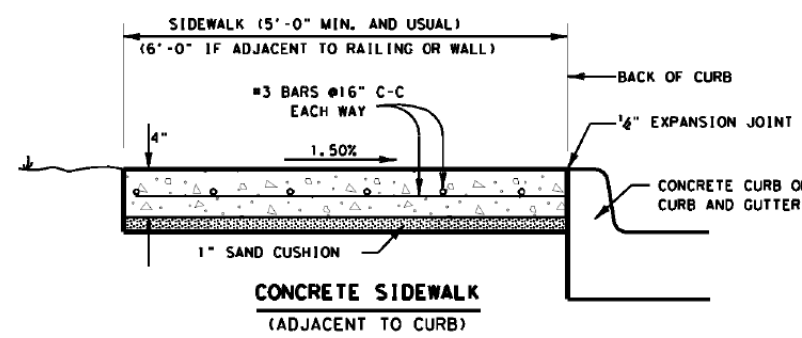
CONCRETE SIDEWALK (ROADWAY W/O CURB)



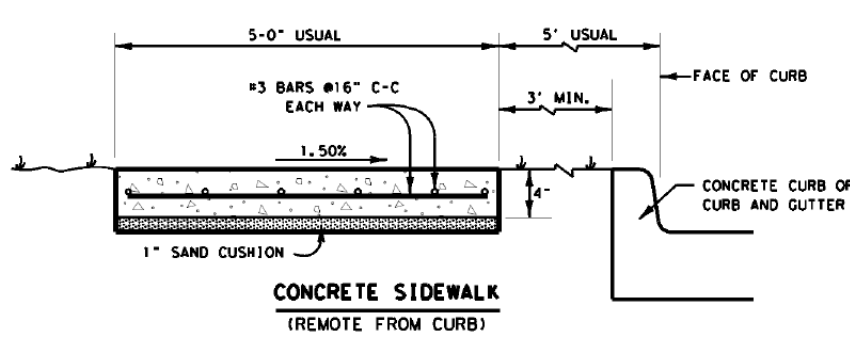
1/2" EXPANSION JOINT (SIDEWALK ADJACENT TO CURB)

GENERAL NOTES:

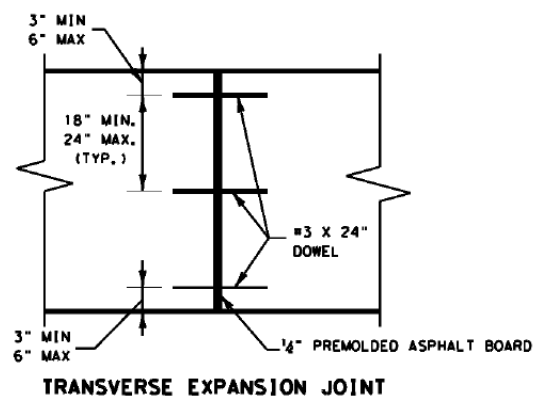
1. ALL CONCRETE SHALL BE CLASS "C".
2. ALL REINFORCING STEEL SHALL BE GRADE 60, # 4 BARS UNLESS OTHERWISE INDICATED.
3. SEE PLAN SHEETS FOR LOCATIONS OF SIDEWALKS AND RETAINING WALLS.
4. LONGITUDINAL SLOPE OF SIDEWALKS SHALL NOT EXCEED 5% EXCEPT IN CASES WHERE THE ADJACENT ROADWAY SLOPE EXCEEDS 5%. IF ROADWAY SLOPE EXCEEDS 5%, LONGITUDINAL SLOPE OF SIDEWALK MAY MATCH THAT OF ROADWAY.
5. IF SIDEWALK WIDTH IS LESS THAN 5', PROVIDE 5' X 5' PASSING AREAS AT INTERVALS NOT TO EXCEED 200' SPACING.
6. RETAINING WALL WILL BE SUBSIDIARY TO THE ITEM, "CONC SIDEWALKS (SPECIAL) (TYPE A)" OR "CONC SIDEWALKS (SPECIAL) (TYPE B)", WITH LIMITS OF PAY AS SHOWN.
7. SURFACE TREATMENT OF RETAINING WALL FACE DETAILED ELSEWHERE IN THE PLANS.
8. SEE PED STANDARDS FOR TREATMENT AT INTERSECTIONS AND CROSSWALKS.



CONCRETE SIDEWALK (ADJACENT TO CURB)



CONCRETE SIDEWALK (REMOTE FROM CURB)



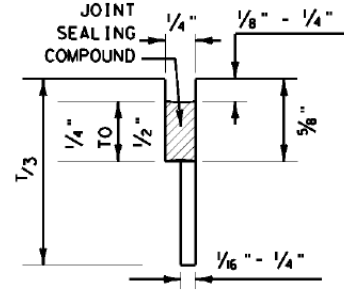
TRANSVERSE EXPANSION JOINT

CONCRETE SIDEWALK DETAILS
 N. T. S.

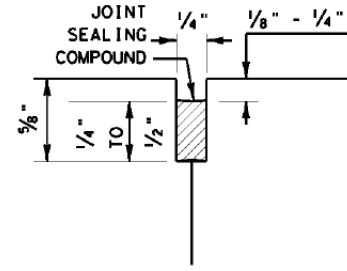
		Fort Worth District Standard	
<h2>CONCRETE SIDEWALK DETAILS</h2> <h3>CSWD (FTW)</h3>			
ORIGINAL DRAWING: 05/2019	cswd-ftw.dgn	PROJECT NO.	SHEET 85
DATE	REVISIONS	SEE TITLE SHEET	
05/2019	NEW STANDARD	STATE	COUNTY
		TEXAS	TARRANT
		CORR.	HIGHWAY NO.
		0902	119
		0902	192
			McCART

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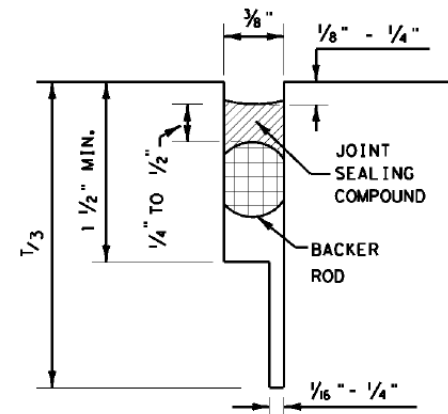
METHOD B: JOINT SEALING COMPOUND



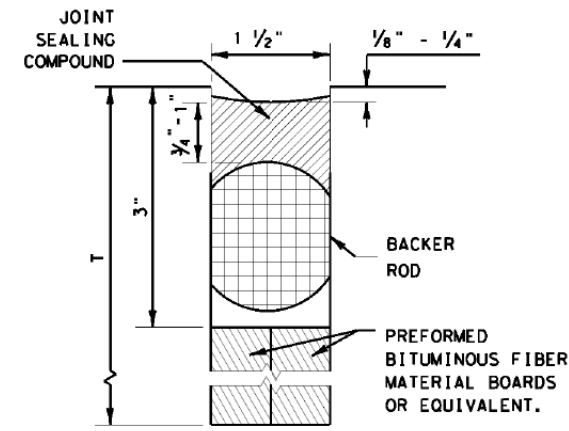
LONGITUDINAL SAWED CONTRACTION JOINT



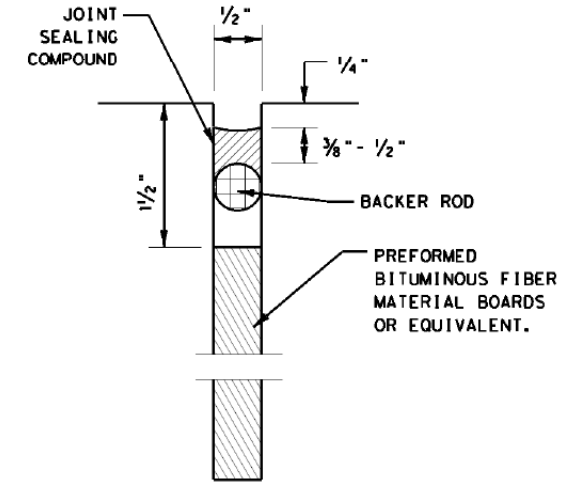
LONGITUDINAL OR TRANSVERSE CONSTRUCTION JOINT



TRANSVERSE SAWED CONTRACTION JOINT



TRANSVERSE FORMED EXPANSION JOINT



FORMED ISOLATION/EXPANSION JOINT

GENERAL NOTES

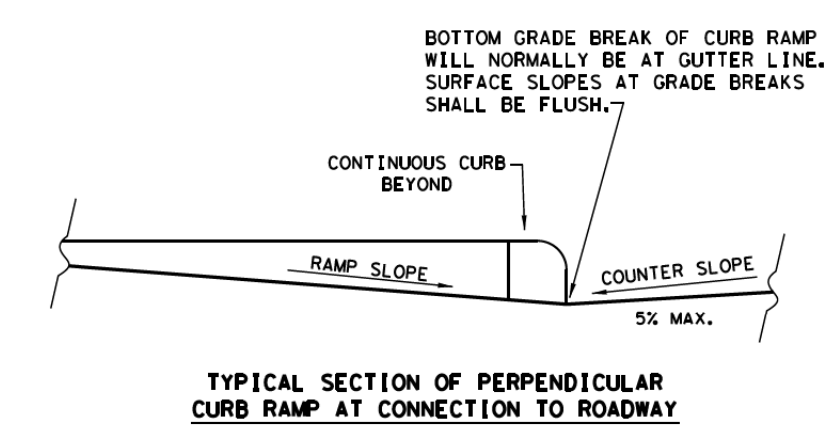
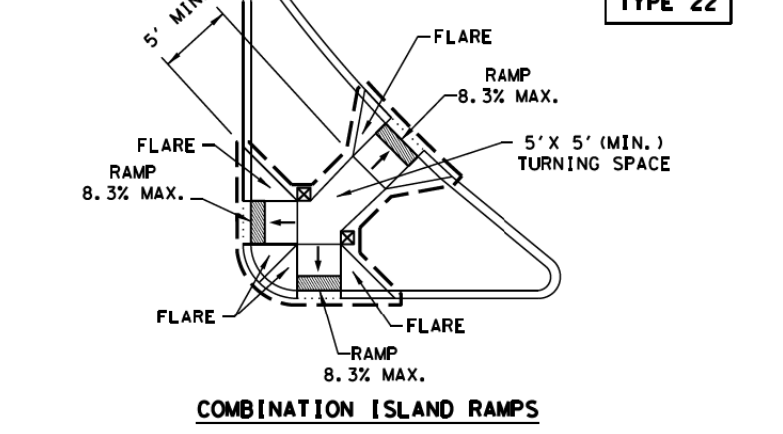
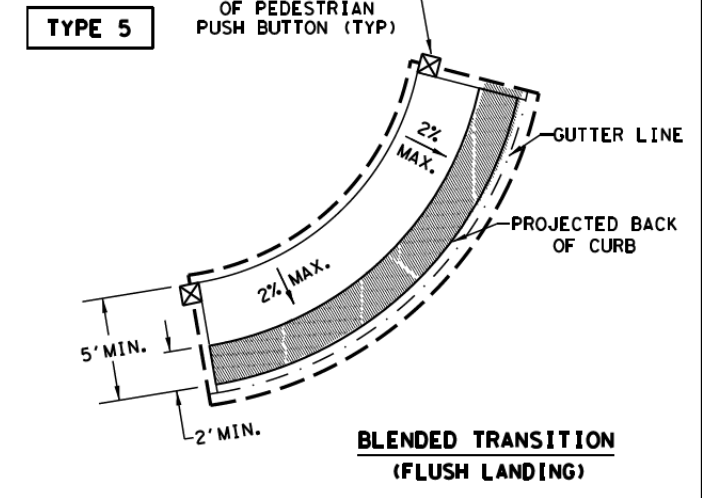
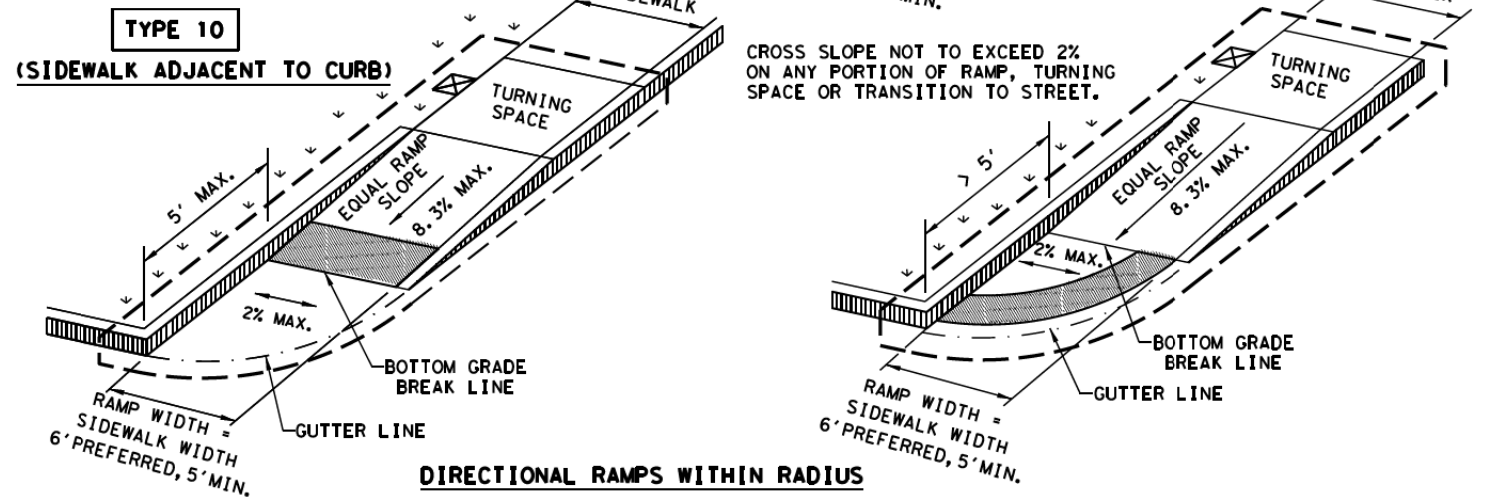
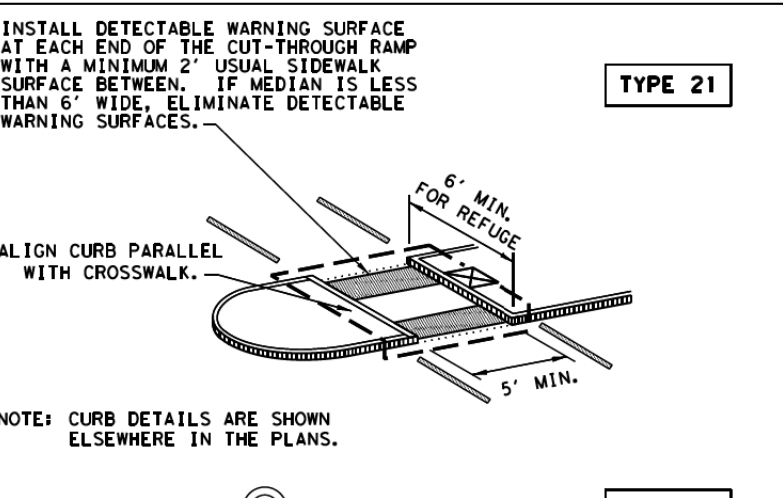
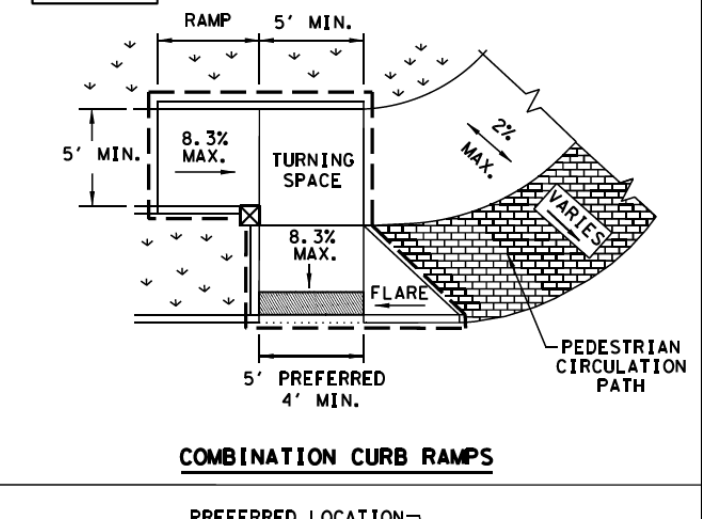
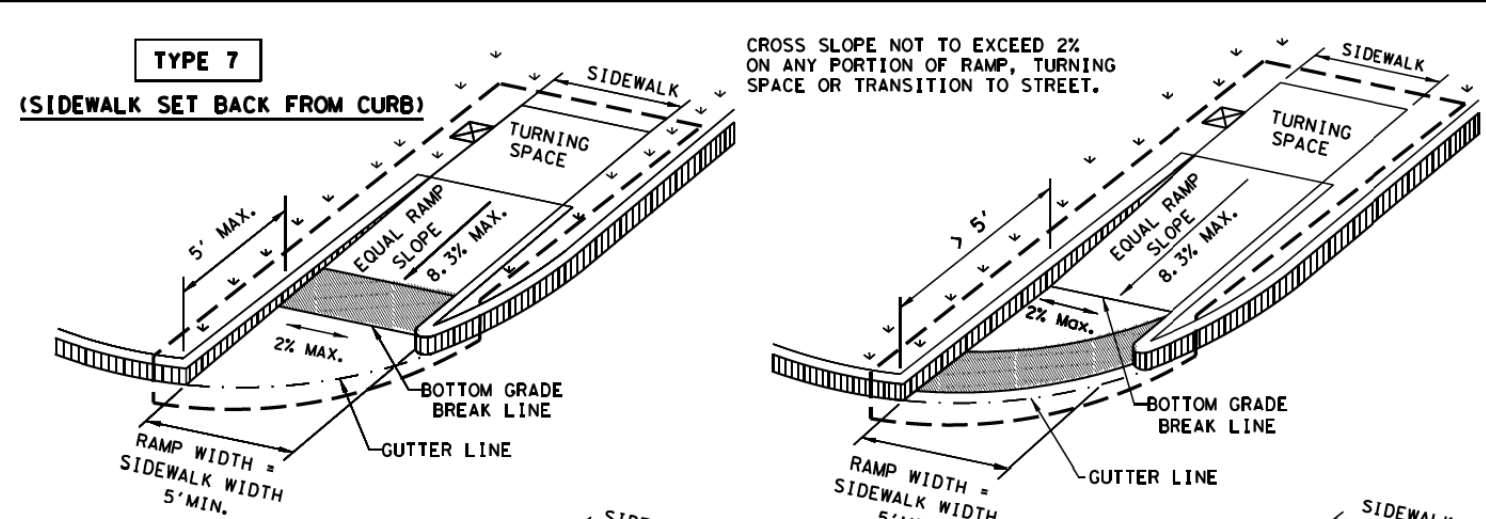
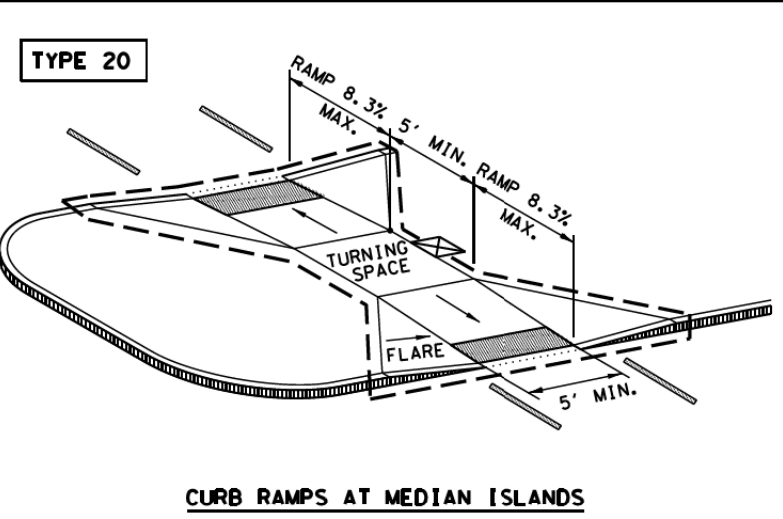
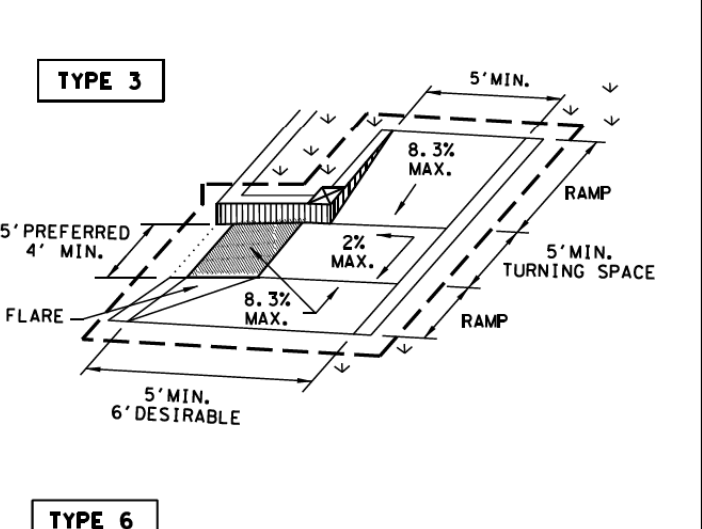
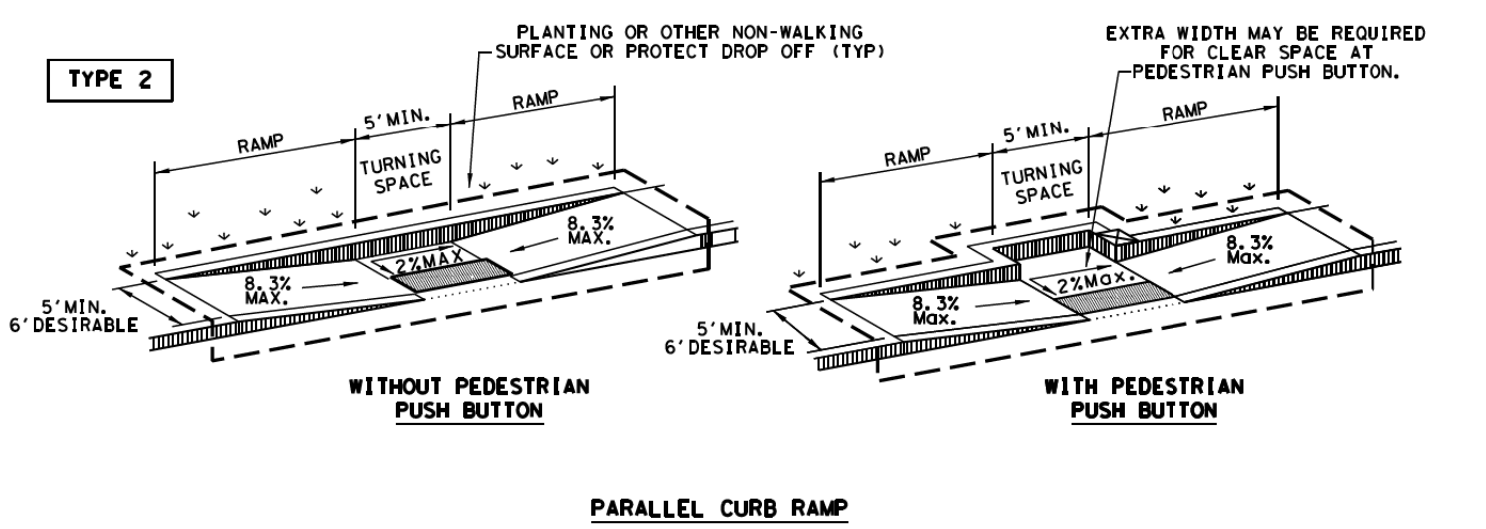
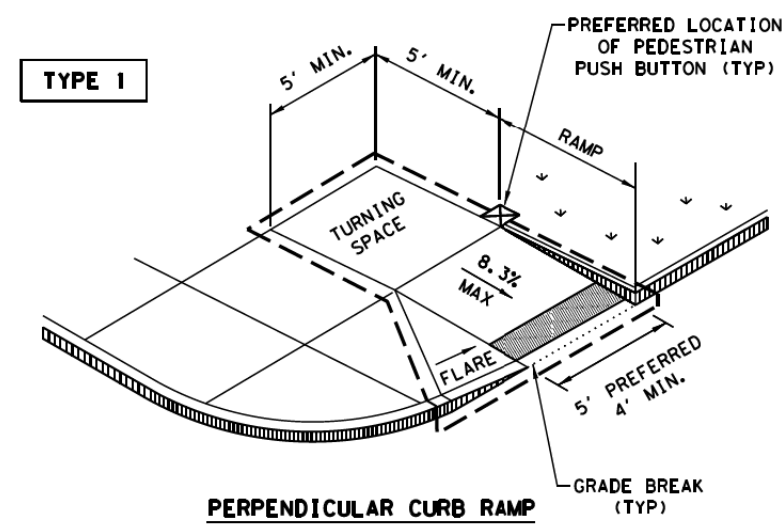
1. PREFORMED COMPRESSION SEALS (METHOD A) WILL NOT BE PERMITTED.
2. DIMENSION "T" IS THICKNESS OF CONCRETE PAVEMENT.
3. THE LOCATION OF JOINTS SHALL BE AS SHOWN ELSEWHERE IN THE PLANS.
4. THE JOINT RESERVOIR FOR SEALANT FOR THE LONGITUDINAL AND TRANSVERSE CONSTRUCTION JOINTS AND SAWED JOINTS SHALL BE SAWED UNLESS OTHERWISE SHOWN ON THE PLANS.
5. REFER TO DMS-6310 "JOINT SEALANTS AND FILLERS" FOR SEALANT CLASSIFICATIONS.
6. FOR SAWED LONGITUDINAL JOINTS, LONGITUDINAL OR TRANSVERSE CONSTRUCTION JOINTS, USE JOINT SEALANT CLASS 5 OR 8 UNLESS OTHERWISE SHOWN ON THE PLANS OR APPROVED.
7. FOR TRANSVERSE SAWED CONTRACTION JOINTS, TRANSVERSE FORMED EXPANSION JOINTS, AND ISOLATION/EXPANSION JOINTS, USE JOINT SEALANT CLASS 5 OR 8 AT NEW JOINTS. USE JOINT SEALANT CLASS 4, 5, 7, OR 8 FOR MAINTAINING EXISTING JOINTS.
8. THE JOINTS SHALL BE CLEANED IN ACCORDANCE WITH THE ITEM 438 "CLEANING AND SEALING JOINTS" OR ITEM 713 "CLEANING AND SEALING JOINTS AND CRACKS (CONCRETE PAVEMENT)".
9. ISOLATION/EXPANSION JOINTS ACCOMMODATE HORIZONTAL AND VERTICAL MOVEMENTS THAT OCCUR BETWEEN A PAVEMENT AND A STRUCTURE. ISOLATION/EXPANSION JOINTS MAY BE USED FOR BRIDGE ABUTMENTS, INTERSECTIONS, CURB AND GUTTER, OLD AND NEW PAVEMENTS, OR AROUND DRAINAGE INLETS, MANHOLES, FOOTINGS AND LIGHTING STRUCTURES.

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		Fort Worth District Standard	
<h2>CONCRETE PAVING DETAILS</h2> <h3>JOINT SEALS</h3> <h3>JS (FTW)</h3>			
ORIGINAL DRAWING: 05/2019	js-ftw.dgn	FED. DIST. NO. 6	PROJECT NO. SEE TITLE SHEET
DATE	REVISIONS	STATE	SHEET NO. 86
05/2019	REPLACES JS-03 (FTW)	TEXAS	
		FTW	TARRANT
		COUNT.	COUNTY
		0902	119
		0902	192
		JOB	HIGHWAY NO.
			McCART

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DATE: FILE:



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.

DETECTABLE WARNING SURFACE

DENOTES PREFERRED LOCATION OF PEDESTRIAN PUSH BUTTON IF APPLICABLE.

GUTTER LINE

GRADE BREAK

RAMP LIMITS OF PAYMENT

SHEET 1 OF 4

Texas Department of Transportation
Design Division Standard

PEDESTRIAN FACILITIES CURB RAMPS

PED-18

FILE# ped18	DW TxDOT	DWG VP	CK KM	CK PK & JG
© TxDOT: MARCH, 2002	CONT	SECT	JOB	HIGHWAY
REVISIONS	0902	90	119	McCART
REVISOR	06, 2012			
REVISOR	01, 2018			
FTW	TARRANT			SHEET NO. 87

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DATE: FILE:

GENERAL NOTES

CURB RAMPS

1. Install a curb ramp or blended transition at each pedestrian street crossing.
2. All slopes shown are maximum allowable. Cross slopes of 1.5% and lesser running should be used. Adjust curb ramp length or grade of approach sidewalks as directed.
3. Maximum allowable cross slope on sidewalk and curb ramp surfaces is 2%.
4. 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.
5. Turning Spaces shall be 5' x 5' minimum. Cross slope shall be maximum 2%.
6. Clear 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.
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 latest draft of the Proposed Guidelines for Pedestrian Facilities in the Public Right of Way (PROWAG) as published by the U.S. Architectural and Transportation Barriers Compliance Board (Access Board).
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. Provide curb ramps to connect the pedestrian access route at each pedestrian street crossing. Handrails are not required on curb ramps.
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. Furnish and install No. 3 reinforcing steel bars at 18" o.c. both ways, unless otherwise directed.
16. Provide a smooth transition where the curb ramps connect to the street.
17. 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.
18. Existing features that comply with applicable standards may remain in place unless otherwise shown on the plans.

DETECTABLE WARNING MATERIAL

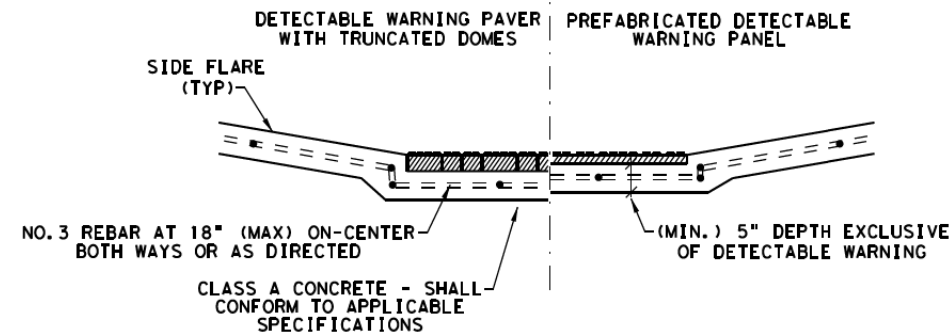
19. Curb ramps must contain a detectable warning surface that consists of raised truncated domes complying with PROWAG. The surface must contrast visually with adjoining surfaces, including side flares. Furnish and install an approved cast-in-place dark brown or dark red detectable warning surface material adjacent to uncolored concrete, unless specified elsewhere in the plans.
20. 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.
21. Detectable warning surfaces must be firm, stable and slip resistant.
22. Detectable warning surfaces shall be a minimum of 24 inches 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.
23. Detectable warning surfaces shall be located so that the edge nearest the curb line is at the back of curb and neither end of that edge is greater than 5 feet from the back of curb. Detectable warning surfaces may be curved along the corner radius.
24. Shaded areas on Sheet 1 of 4 indicate the approximate location for the detectable warning surface for each curb ramp type.

DETECTABLE WARNING PAVERS (IF USED)

25. 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.
26. Lay full-size units first followed by closure units consisting of at least 25 percent (25%) of a full unit. Cut detectable warning paver units using a power saw.

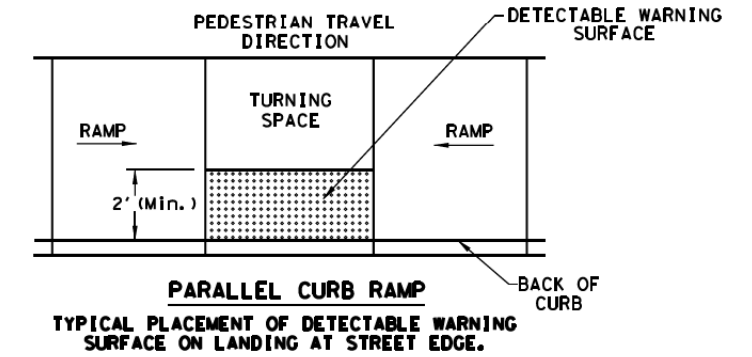
SIDEWALKS

27. Provide clear ground space at operable parts, including pedestrian push buttons. Operable parts shall be placed within unobstructed reach range specified in PROWAG section R406.
28. 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.
29. Street grades and cross slopes shall be as shown elsewhere in the plans.
30. Changes in level greater than 1/4 inch are not permitted.
31. 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 five percent (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 PROWAG R409.
32. Handrail extensions shall not protrude into the usable landing area or into intersecting pedestrian routes.
33. 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".
34. Sidewalk details are shown elsewhere in the plans.

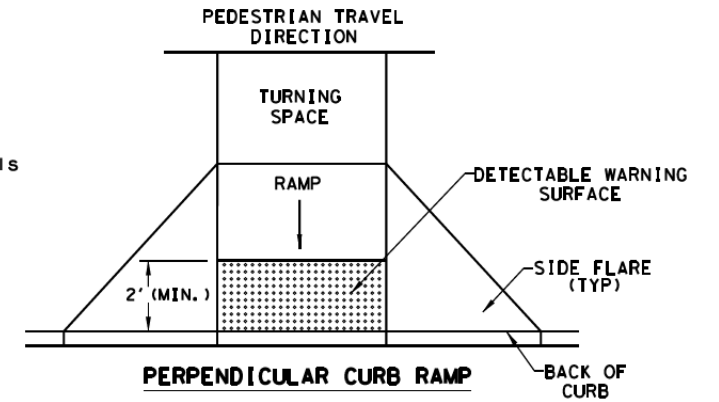


SECTION VIEW DETAIL
CURB RAMP AT DETECTIBLE WARNINGS

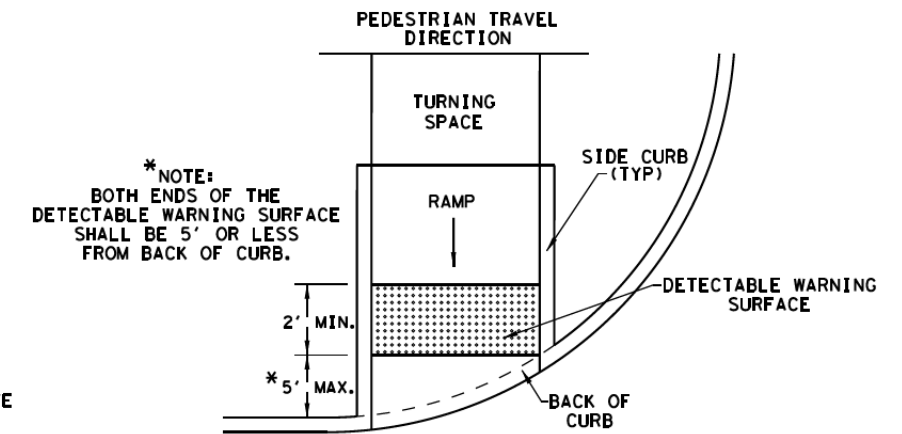
DETECTABLE WARNING SURFACE DETAILS



PARALLEL CURB RAMP
TYPICAL PLACEMENT OF DETECTABLE WARNING SURFACE ON LANDING AT STREET EDGE.



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.

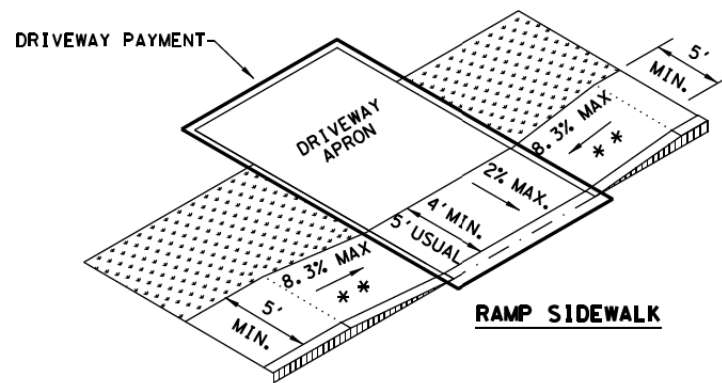
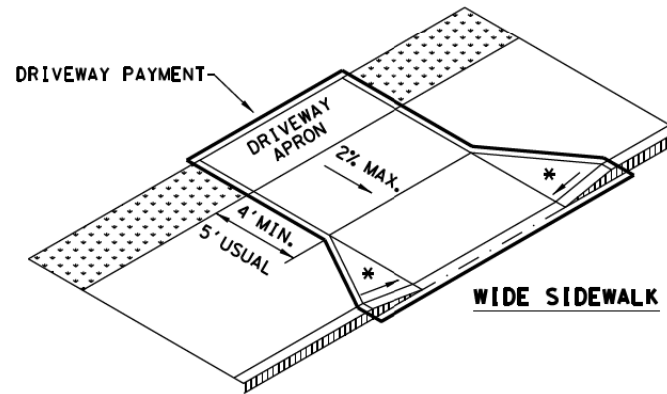
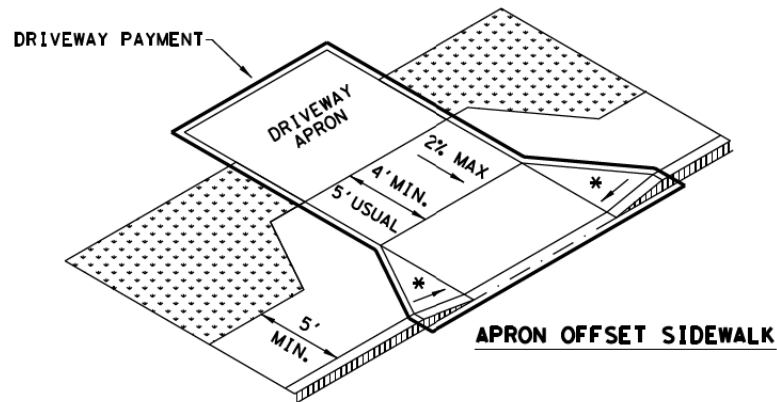
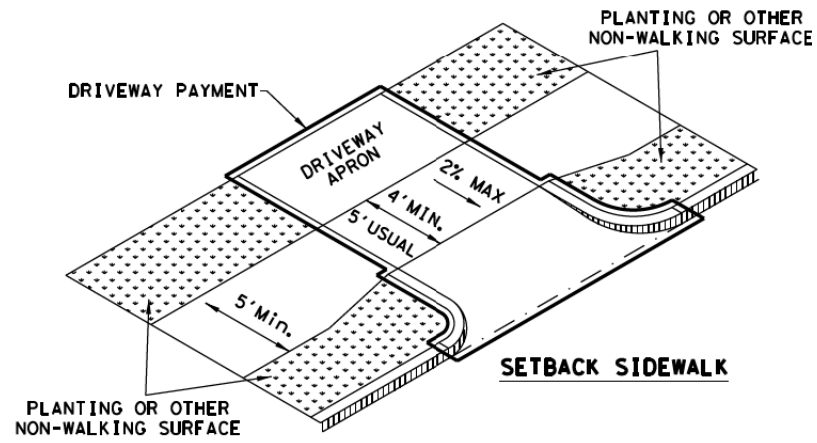
* NOTE:
 BOTH ENDS OF THE
 DETECTABLE WARNING SURFACE
 SHALL BE 5' OR LESS
 FROM BACK OF CURB.

SHEET 2 OF 4

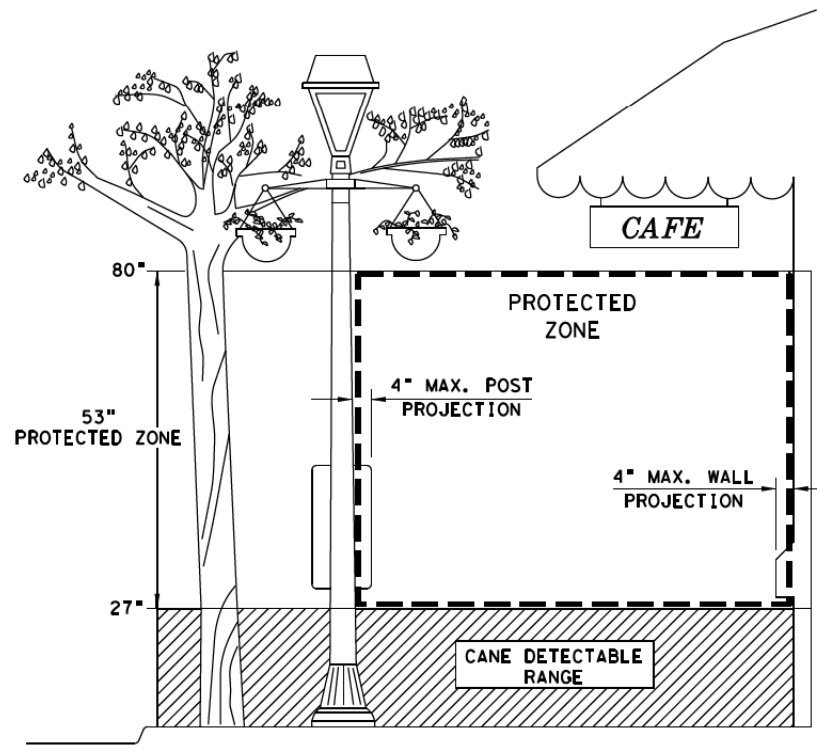
Texas Department of Transportation		Design Division Standard	
PEDESTRIAN FACILITIES CURB RAMPS			
PED-18			
FILE: ped18	DW: TxDOT	DW: VP	CK: KM
© TxDOT: MARCH, 2002	CONT	SECT	JOB
REVISIONS	0902	90	119
REVISOR: 08, 2009			192
REVISOR: 06, 2012	DIST	COUNTY	SHEET NO.
REVISOR: 01, 2018	FTW	TARRANT	88

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SIDEWALK TREATMENT AT DRIVEWAYS

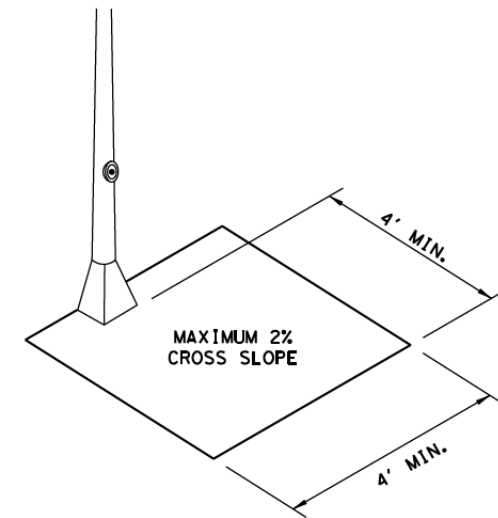


NOTES:
 * WHERE DRIVEWAYS CROSS THE PEDESTRIAN ROUTE, SIDES SHALL BE FLARED AT 10% MAX SLOPE.
 ** IF CURB HEIGHT IS GREATER THAN 6 INCHES, USE GRADE LESS THAN OR EQUAL TO 5%. HANDRAIL AND DETECTABLE WARNING ARE NOT REQUIRED.

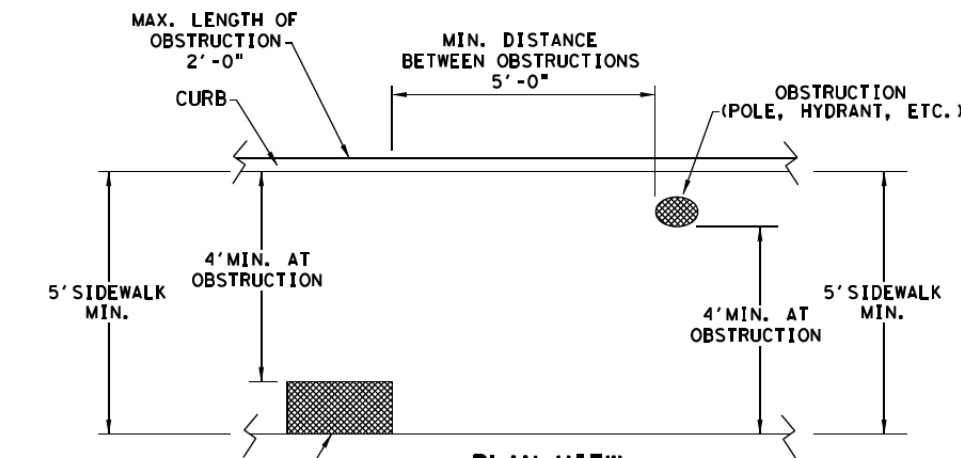


PROTECTED ZONE

NOTE: IN PEDESTRIAN CIRCULATION AREA, MAXIMUM 4" PROJECTION FOR POST OR WALL MOUNTED OBJECTS BETWEEN 27" AND 80" ABOVE THE SURFACE.

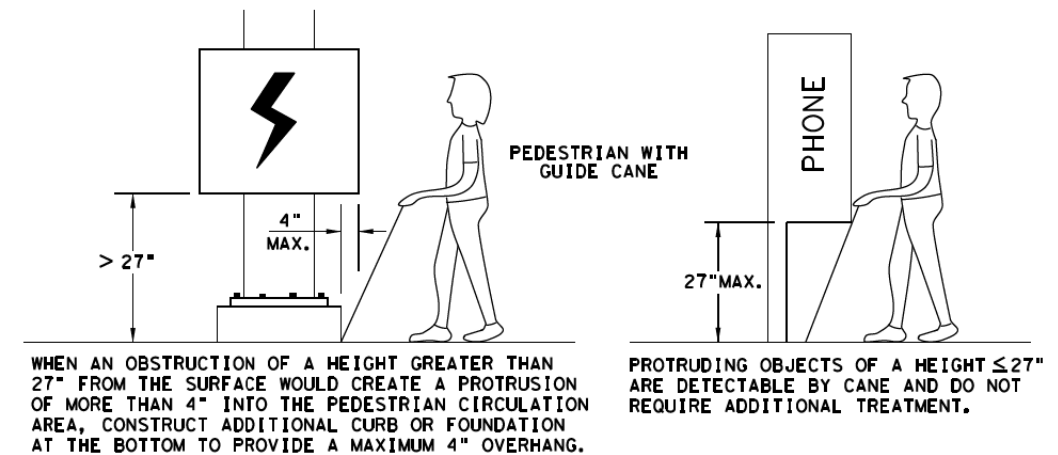


CLEAR SPACE ADJACENT TO PEDESTRIAN PUSH BUTTON



PLAN VIEW
PLACEMENT OF STREET FIXTURES

NOTE: ITEMS NOT INTENDED FOR PUBLIC USE. MINIMUM 4' X 4' CLEAR GROUND SPACE REQUIRED AT PUBLIC USE FIXTURES.



DETECTION BARRIER FOR VERTICAL CLEARANCE < 80"

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.

SHEET 3 OF 4



PEDESTRIAN FACILITIES
CURB RAMPS

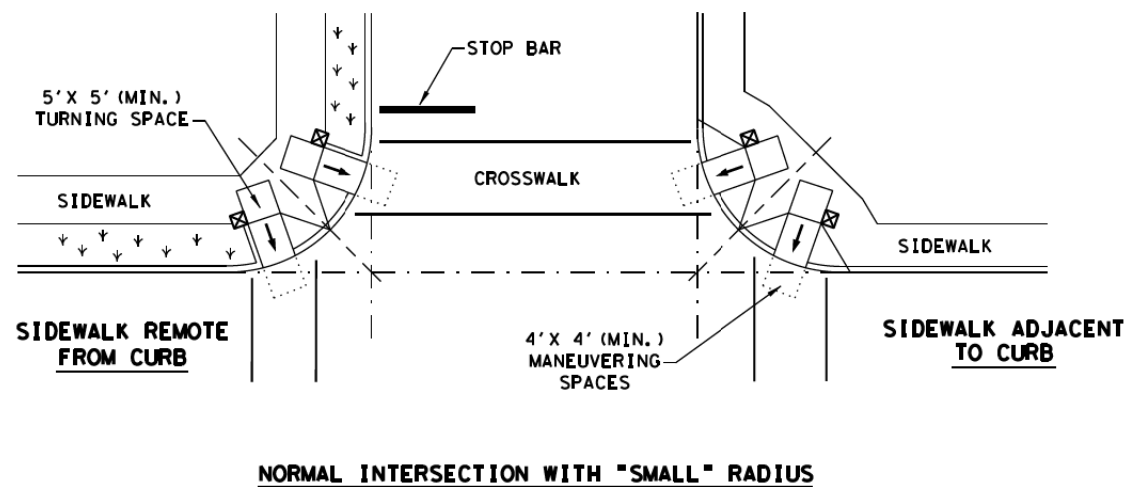
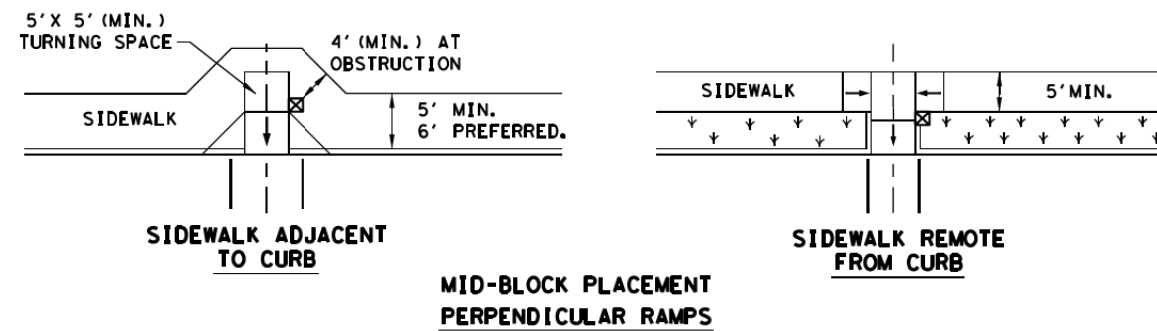
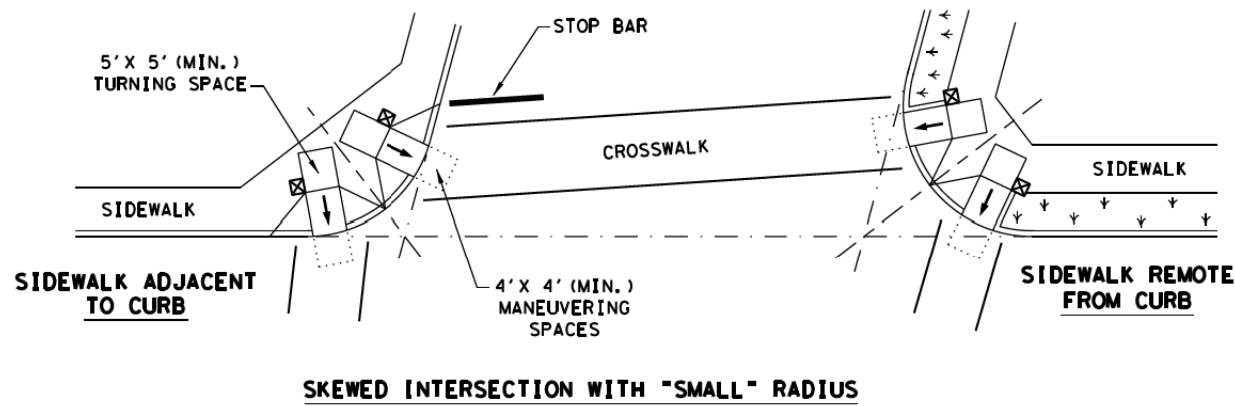
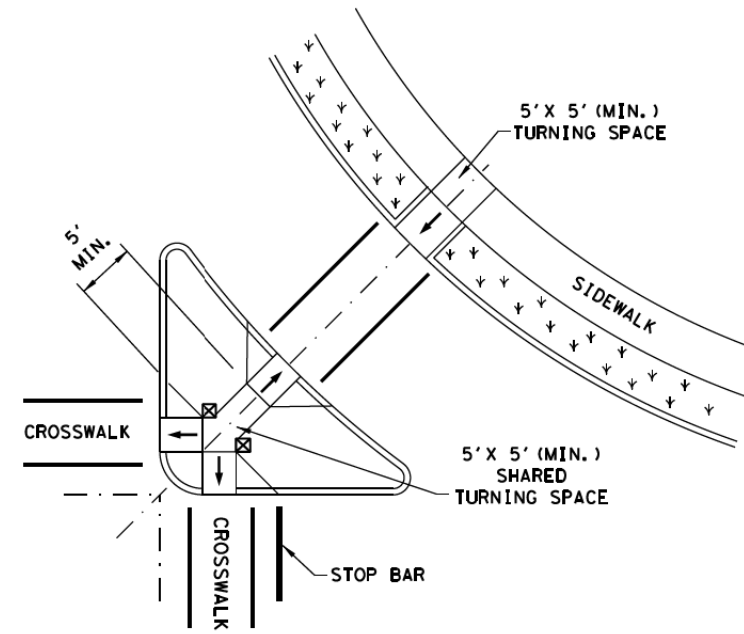
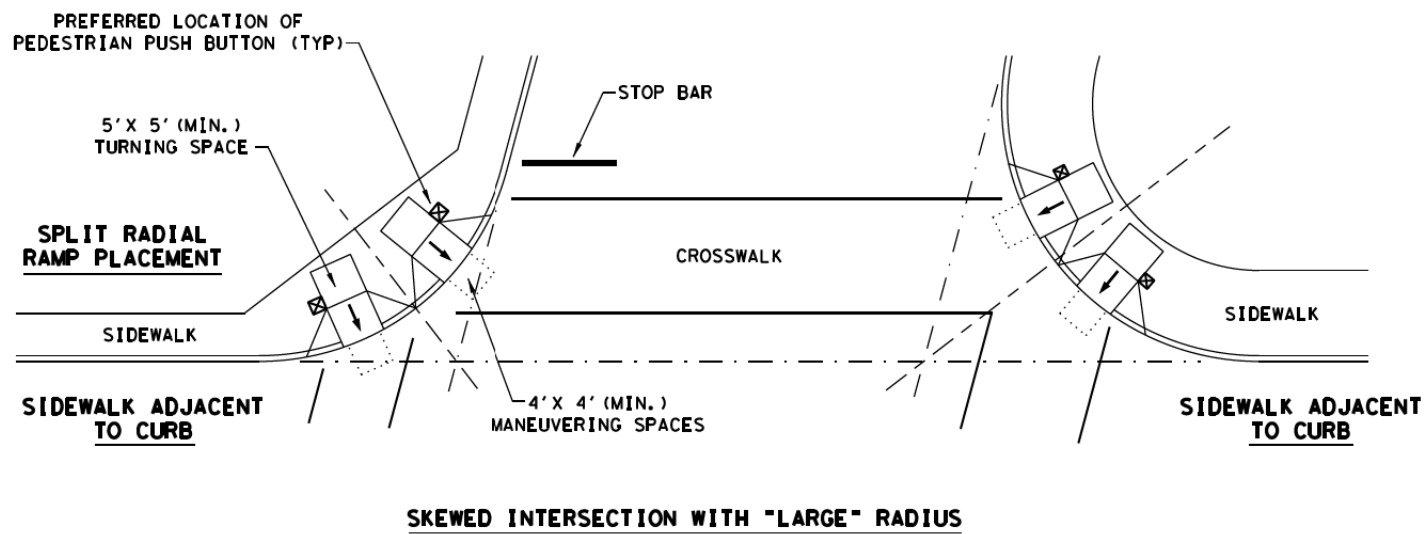
PED-18

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TYPICAL CROSSING LAYOUTS
SEE SHEET 1 OF 4 FOR DETAILS AND DIMENSIONS



LEGEND:

- SHOWS DOWNWARD SLOPE. →
- DENOTES PREFERRED LOCATION OF PEDESTRIAN PUSH BUTTON (IF APPLICABLE). ☒
- DENOTES PLANTING OR NON-WALKING SURFACE NOT PART OF PEDESTRIAN CIRCULATION PATH. ↙ ↘ ↗ ↖

SHEET 4 OF 4



PEDESTRIAN FACILITIES
CURB RAMPS
PED-18

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