



HUXLEY
— HEART OF THE PRAIRIE —

Sidewalk/Driveway Permit Application

Permit needed for sidewalk, approach or any construction inside right of way.

Name: _____

Address: _____

Phone Number: _____ Email: _____

Check the following that apply:

☐ New Construction

☐ Repair

☐ Reconstruction

☐ Replacement

Permit Fee: \$25

Date work is to be started: ____/____/____

Date work is to be completed: ____/____/____

Drawing:

Office use only:

Date inspected and approved: ____/____/____ Inspected by: _____

Comments:



Standard Specifications for the Construction, Reconstruction, Replacement and Repair of Public Sidewalks and Driveway Crossings

All construction, reconstruction, replacement, and repair of sidewalks and driveway crossings shall follow the Standard Plans and Specifications as set forth in the "Standard Specifications for Street and Utility Improvements" as adopted by the City of Huxley. Any work done on sidewalks and/or driveways must have a permit issued by the City of Huxley.

Before any work is done, check for utilities. Call Iowa One Call at 1-800-292-8989 or by dialing 811.

Design Standards:

Driveway and sidewalks specifications will follow the City of Huxley's Standards for Driveway and sidewalk specifications as adopted by the council and SUDAS Section 7030 Sidewalks: Shared Use Paths and Driveways.

Driveways:

- a. Use flared approach for residential driveways; use flared or radius approach for commercial or industrial driveways.
- b. Design driveway approach in commercial or industrial areas to accommodate anticipated traffic.
- c. Construct concrete driveways; six (6) inches minimum thickness; truck traffic may require greater thickness.

Sidewalks:

- a. Provide sidewalks on each side of street; located one (1) foot inside right-of-way line or as directed by the City.
- b. Depress street curbs and flare sidewalks at street intersections to construct pedestrian curb ramps.
- c. Minimum width: five (5) feet. See Chapter 166.10 of the City of Huxley Code of Ordinances.
- d. Sidewalks shall not be constructed with slopes greater than 5% unless approved by the City.
- e. Use 1/2" thick expansion joint on all four sides of the sidewalk in the driveway and at the back of curbs at driveways and ADA ramps. Expansion needs to be full depth of the pavement at driveways and ramps (Typically 7 to 8 inch) and 6 inches around the sidewalk in driveway. Rip off 1/2 inch off top of expansion and fill the 1/2-inch void to surface with vulkem or tar to seal joint.
- f. The established permanent grade of all permanent sidewalks shall be at the lot line and shall be one-fourth of an inch for ten feet wide or less parking widths (Right of Way) or one-half inch for parking widths greater than ten feet above the established street grade for each foot between the property line and the curb line unless such sidewalk is otherwise established by ordinance.
- g. The surface of all sidewalks shall drop uniformly one-fourth inch for each foot of sidewalk from the lot line to the center of the street depending on the width of the right of way.

Driveway and Sidewalks: See attached standard drawings

- a. Construct driveways and sidewalks as shown on standard drawings

- b. Use concrete with air entertainment and other materials as specified for concrete pavement.
- c. Forms: use wood or steel forms adequately staked and braced to maintain grade and alignment while concrete is placed and finished.
- d. Set base of forms at or below subgrade elevation with top of forms at surface elevation at edge of slab.
- e. Coat forms with form oil before concrete is placed to prevent adherence of concrete.
- f. Forms must be in place at least 12 hours but no longer than 48 hours.
- g. Remove forms with care to prevent cracking, spalling or overstressing concrete.
- h. Backfill up to sidewalk and driveway grade as soon as forms are removed to prevent washing out sub grade base material of sidewalk and driveway.
- i. Allow no traffic on sidewalk or driveway for seven days after pour.
- j. Aggregate cuts shall be done within 24 hours of pour.
- k. Concrete shall be a minimum of 4000#

Curb Replacement:

Asphalt Street: Remove curb and gutter to asphalt. Any damage made to asphalt during removal will be repaired by contractor before new curb and gutter is installed. Three dowel pins installed for every 10 feet. Two dowel pins at each end of new curb gutter to existing curb gutter. One dowel pin on each end of curb to existing curb. Pour back to full depth of street or as instructed by inspector.

Concrete Street: Remove curb and gutter two feet out from back of curb or at break point. Any damage made to existing street during removal will be repaired before new curb and gutter are installed. Three dowel pins installed for every 10 feet. Two dowel pins at each end of new curb gutter to existing curb gutter. One dowel pin on each end of curb to existing curb. Pour back to full depth of street or as instructed by inspector.

Curbs will be poured separate from approach.

No concrete will be placed with temperatures below 28 degrees Fahrenheit and frost in ground. If temperature is at or above 28 degrees Fahrenheit for a minimum of 12 hours and ground is frost-free, concrete will be allowed to be poured provided frost blankets are used.

NOTICE: All sidewalks and ramps will be required to adhere to ADA specifications. Areas requiring ramps are required to use 24" x 28" cast in place Armor Tile Pads in red color. City will provide specifications and installation instructions on cast in place when needed.

Refer to comments section on permit for any additional requirements.

Subgrade Preparation:

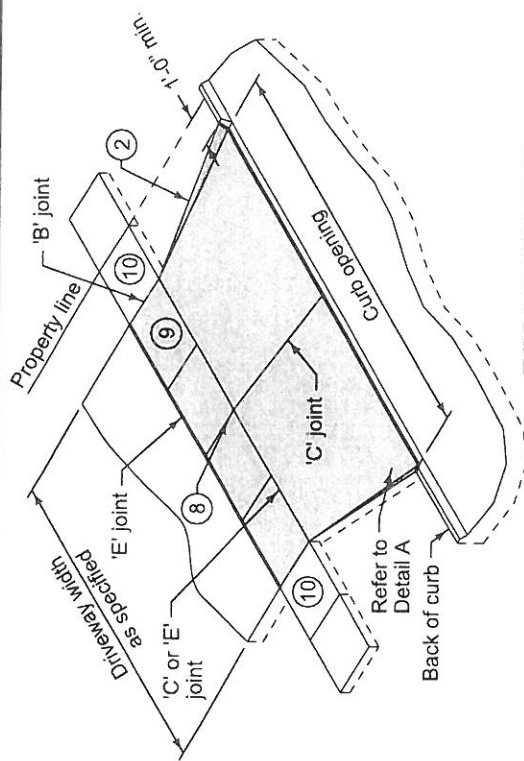
- a. Sidewalk Subgrade:
 - a. The Contractor shall remove all the material, which will be displaced by sidewalk. Whenever filling is required to bring the subgrade to the proper elevation, the entire surface to be covered shall be scarified to a depth of at least 6 inches. The subgrade in embankments and fill shall be

compacted in lifts of 6 inches or less. The subgrade shall be brought to a firm unyielding surface by tamping with a mechanical tamper.

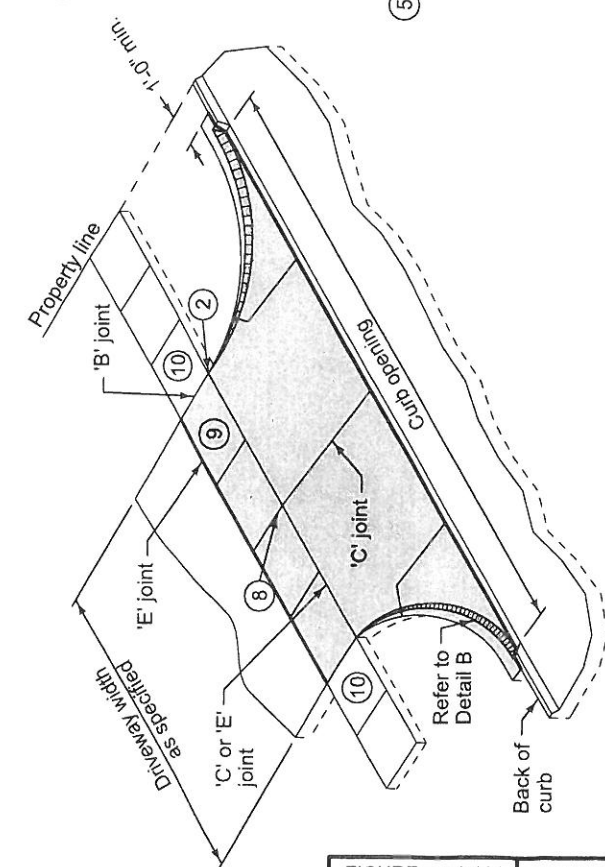
- b. All soft, spongy, or yielding spots and all vegetation or other perishable matter shall be removed and the space filled with suitable material.
- c. When different subgrade materials are encountered the transition zone between the materials shall be roved to as depth of one foot and replaced with one of the materials The line between each material will be transverse with the sidewalk.
- d. It is permissible to excavate subgrade to a point 1" of compacted 3/8" limestone chips or select material.

Surface Fixture Adjustment:

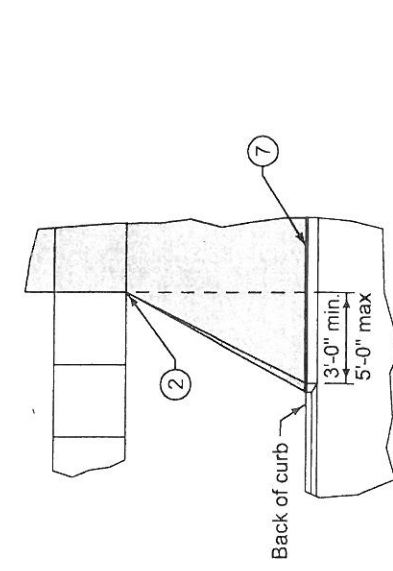
- a. Adjust manhole frames and other utility fixtures and castings within area to be paved to conform to finished surface. It shall be the responsibility of the contractor to cooperate and coordinate with the utility company at the contractor/owner's expense to insure proper fixture adjustment.
- b. In no case shall the sidewalk and driveway be poured, or bricks placed around the fixture or area in a manner as to render operation of fixtures difficult or impossible, without removal of a portion of the new sidewalk and driveway. Such adjustments shall be considered incidental to the work.
- c. Clean outside of fixture to depth of pavement before sidewalk and driveway.



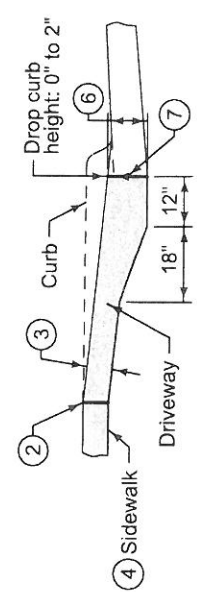
TYPE A WITH FLARES



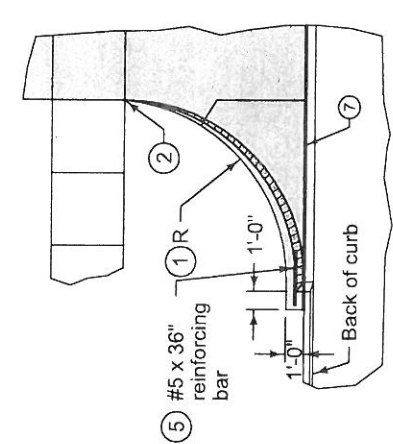
TYPE A WITH RADII



DETAIL A



TYPICAL SECTION

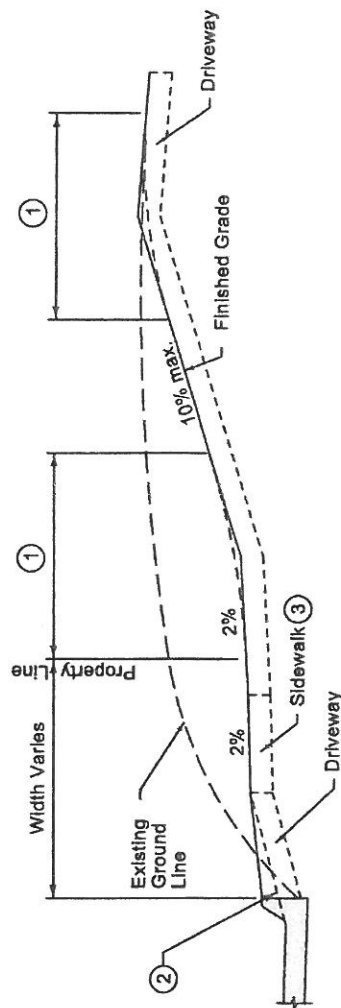


DETAIL B

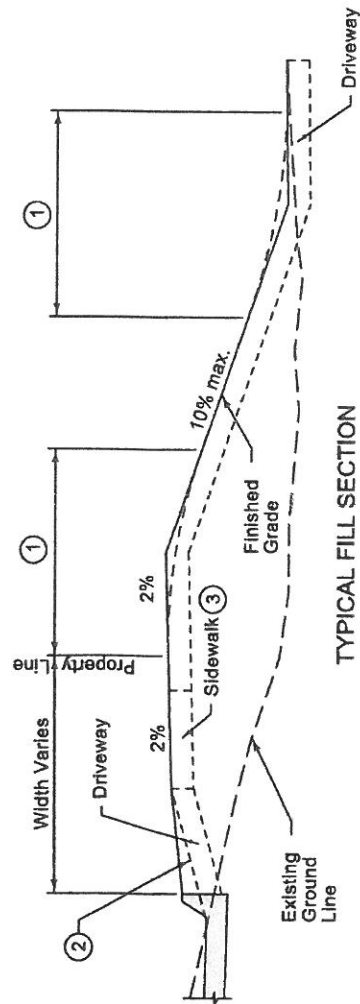
- ① Driveway radius (R). Residential: 10 foot minimum, 15 foot maximum. Commercial and industrial: As specified in the contract documents.
- ② Transition the curb height to 0 inches at end of taper/radius or at the front edge of sidewalk. Do not extend raised curb across sidewalk.
- ③ Pavement thickness. Residential: 6 inches minimum. Commercial and industrial: 7 inches minimum.
- ④ Sidewalk thickness through driveway to match thickness of driveway.
- ⑤ Center reinforcing bar vertically in the pavement.
- ⑥ Match thickness of adjacent roadway, 8 inches minimum.
- ⑦ Provide 'E' joint at back of curb unless 'B' joint is specified.
- ⑧ For alleys, invert the pavement crown 2% toward center of alley.
- ⑨ Target cross slope of 1.5% with a maximum cross slope of 2.0%. If specified in the contract documents, construct the sidewalk through the driveway 5 feet wide to serve as a passing space.
- ⑩ If cross slope of adjacent sidewalk panel exceeds 2.0%, remove and replace to transition from existing sidewalk to sidewalk through driveway. If elevation change requires a curb ramp, comply with Figure 7030.205; verify need for detectable warning panel with Engineer.

	REVISION	7030.101
	2	10-20-15
SUDAS Standard Specifications		SHEET 1 of 1
CONCRETE DRIVEWAY, TYPE A		

- ① 10 foot vertical curve required for 5% or greater change in grade.
- ② Slope varies. See contract documents.
- ③ Target cross slope of 1.5% with a maximum cross slope of 2.0%.



TYPICAL CUT SECTION

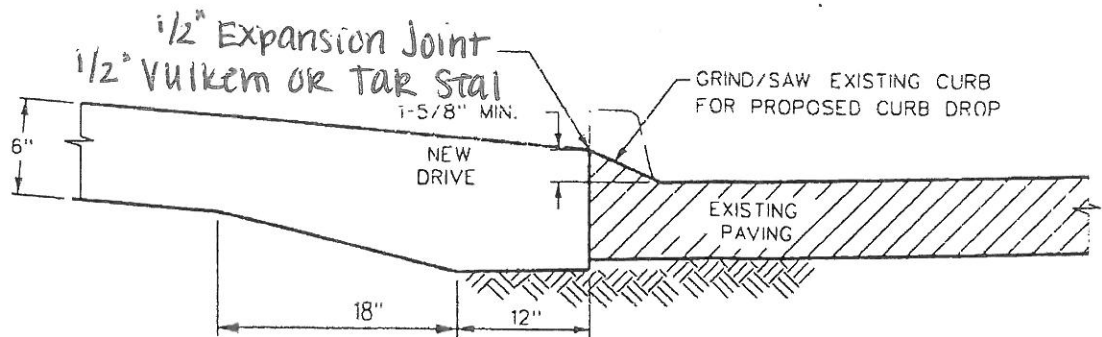
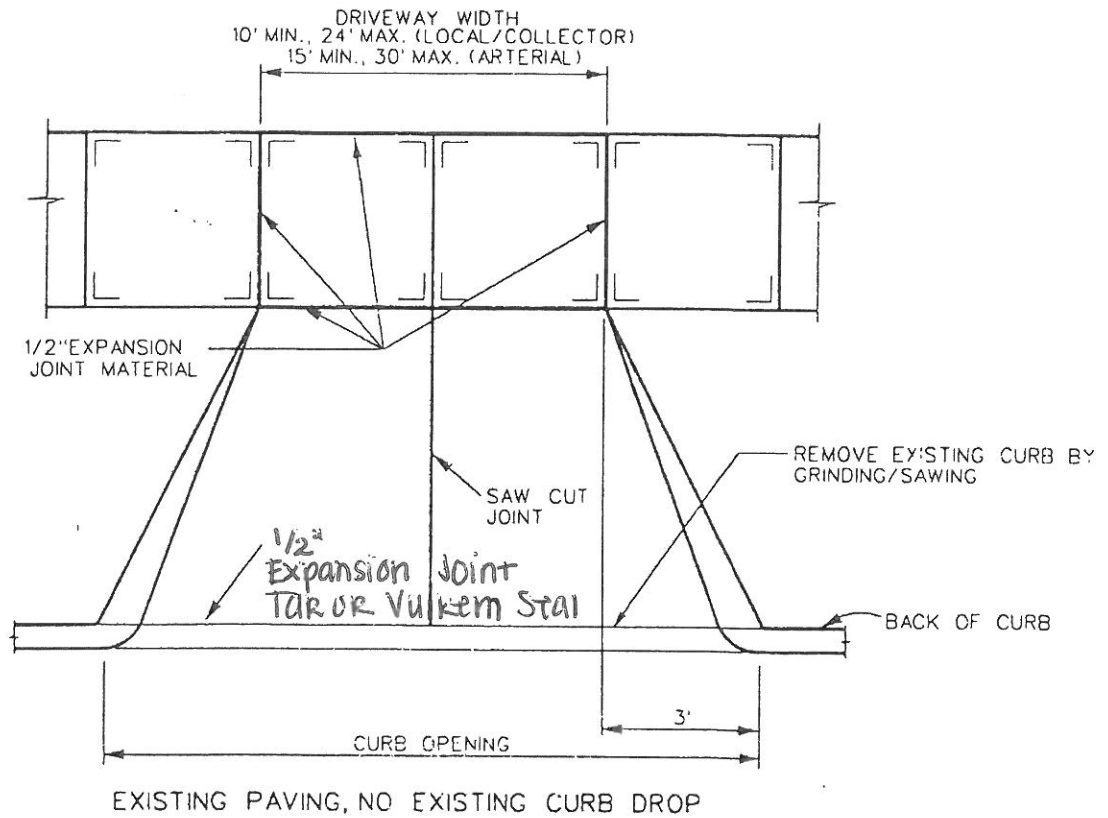


	SUDAS 7030.103	
	REVISION 2 10-20-15	SHEET 1 of 1

SUDAS Standard Specifications

DRIVEWAY GRADING

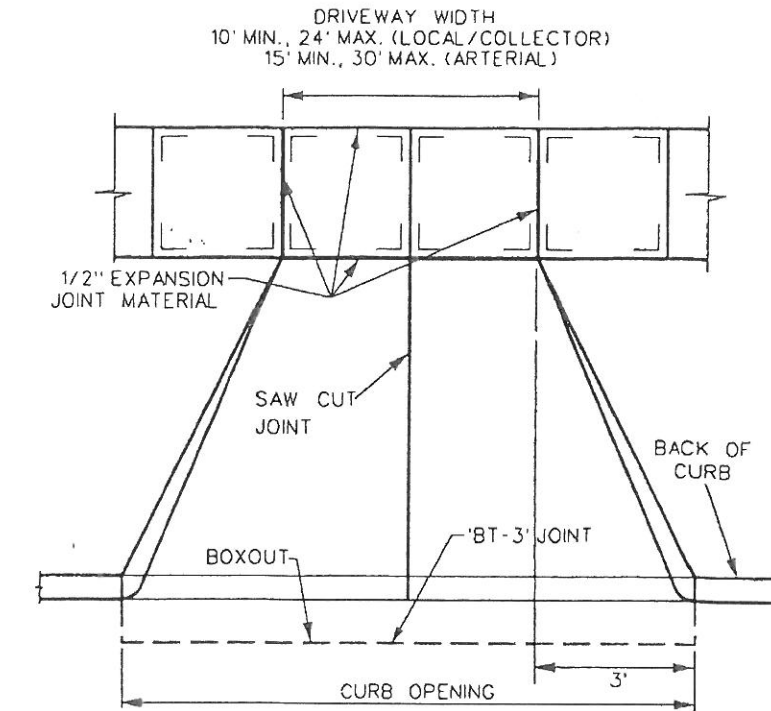
URBAN STANDARD SPECIFICATIONS for PUBLIC IMPROVEMENT MANUAL



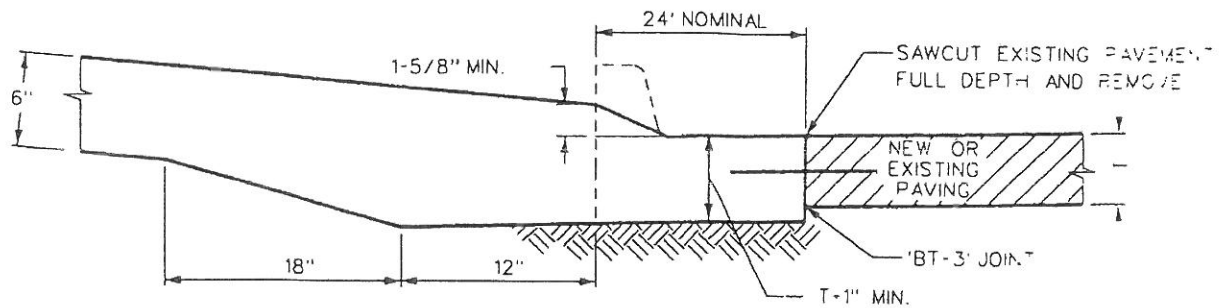
TYPE A
(RESIDENTIAL DRIVEWAY, GRIND OR SAW CURB)

3	01/29/03		RESIDENTIAL DRIVEWAY, TYPE A GRIND/SAW EXISTING CURB	FIGURE: 7030.3A SHEET 1 OF 1
REV.	DATE	BY		
DATE: 01-01-98				

URBAN STANDARD SPECIFICATIONS for PUBLIC IMPROVEMENT MANUAL



NEW OR EXISTING PAVING WITH NO EXISTING CURB DROP



NOTE: IF A LONGITUDINAL JOINT LINE IS LOCATED 36" OR LESS FROM THE BACK OF CURB, EXTEND BOXOUT TO JOINT LINE. FULL DEPTH SAWCUT SHALL STILL BE REQUIRED.

TYPE B

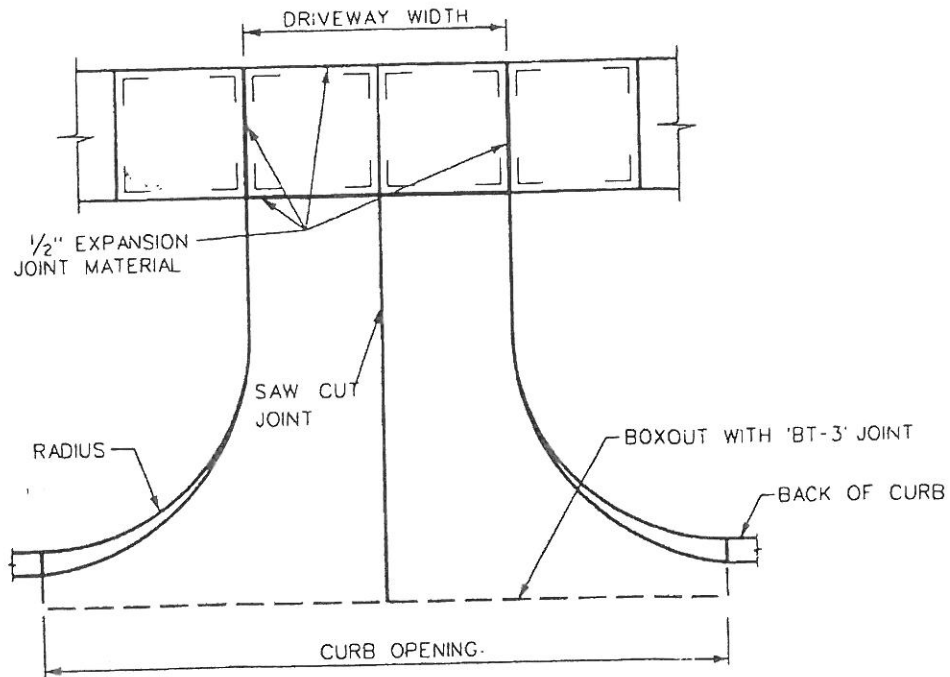
(RESIDENTIAL DRIVEWAY BOXOUT)
(OPTIONAL METHOD FOR EXISTING PAVEMENT
IF CURB GRINDING/SAWING IS NOT ALLOWED
BY JURISDICTIONAL ENGINEER)

1	1/29/03	
REV.	DATE	BY
	DATE: 01/25/01	

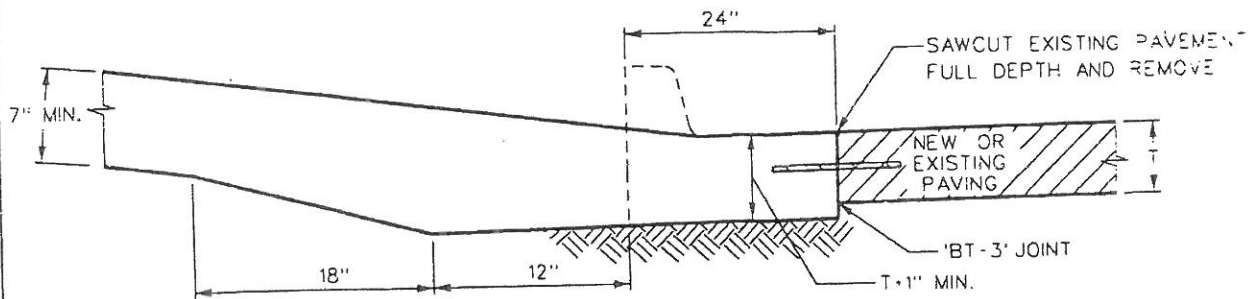
RESIDENTIAL DRIVEWAY, TYPE B
BOXOUT CURB

FIGURE: 7030.3E
SHEET 1 OF 1

URBAN STANDARD SPECIFICATIONS for PUBLIC IMPROVEMENT MANUAL



COMMERCIAL/INDUSTRIAL DRIVEWAY

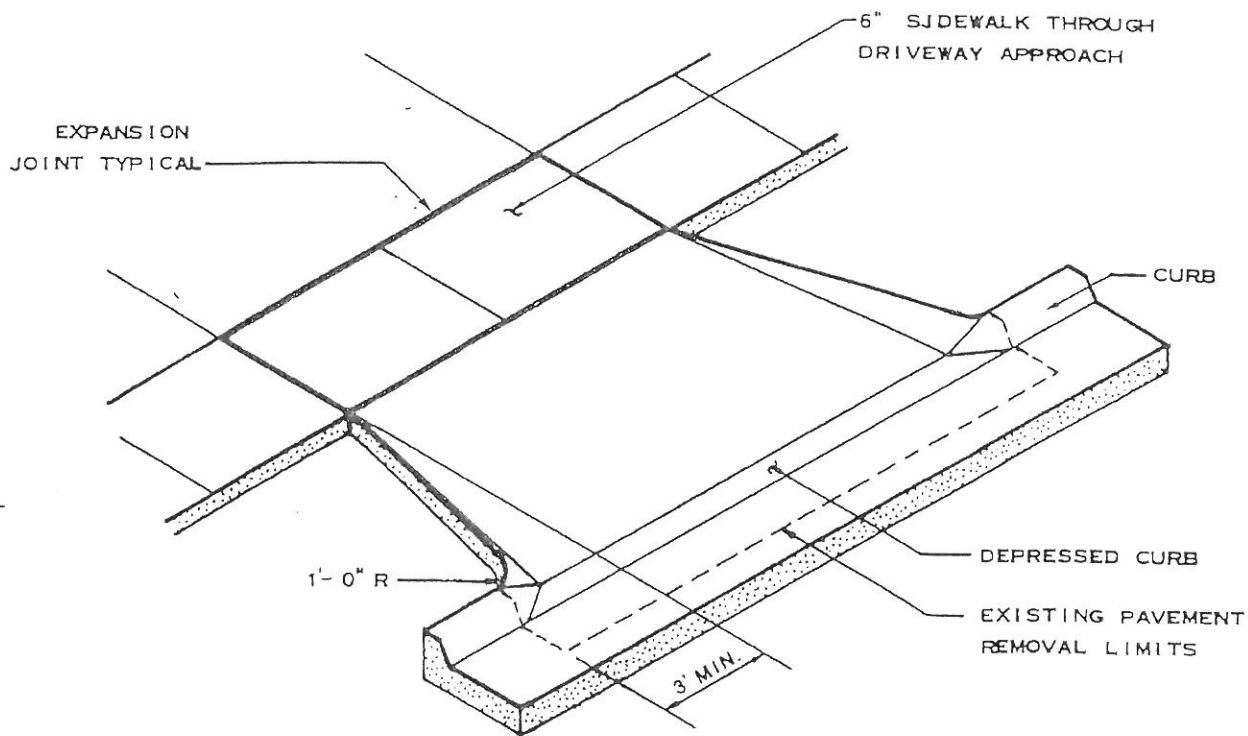


NOTE: IF A LONGITUDINAL JOINT LINE IS LOCATED 36" OR LESS FROM THE BACK OF CURB, EXTEND BOXOUT TO JOINT LINE. FULL DEPTH SAWCUT SHALL STILL BE REQUIRED.

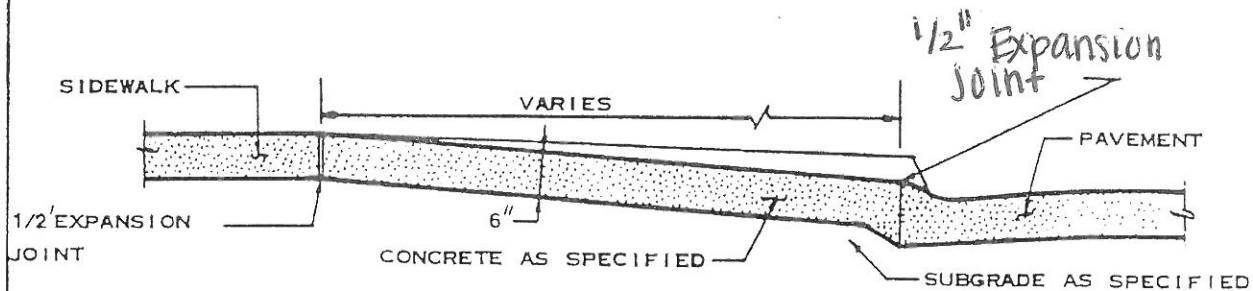
TYPE C
(TYPICAL COMMERCIAL/INDUSTRIAL DRIVEWAY)

	LOCAL STREET		COLLECTOR		MAJOR/MINOR ARTERIAL	
	RADIUS	WIDTH	RADIUS	WIDTH	RADIUS	WIDTH
COMMERCIAL	10'-20'	24'-32'	10'-35'	24'-40'	10'-35'	24'-45'
INDUSTRIAL	10'-30'	24'-40'	25'-50'	24'-45'	25'-50'	24'-45'

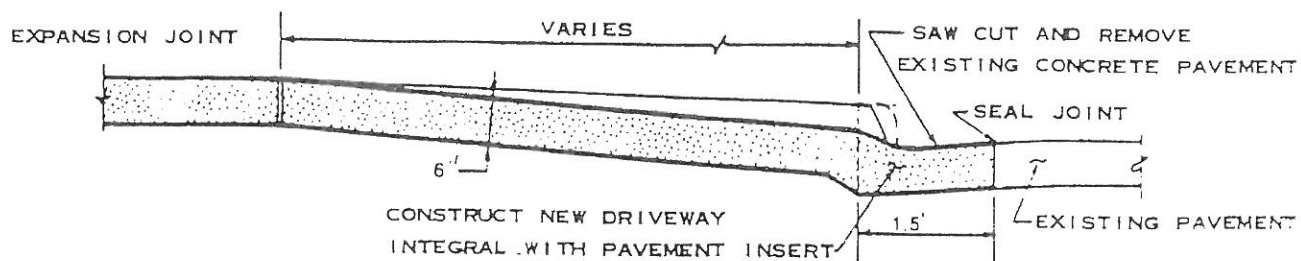
3	01/29/03		COMMERCIAL/INDUSTRIAL DRIVEWAY	FIGURE: 7030 4
REV.	DATE	BY		SHEET 1 OF 1
DATE: 03-03-98				



PLAN



SECTION (NEW PAVEMENT AND NEW DRIVEWAY)



SECTION (EXISTING PAVEMENT AND NEW DRIVEWAY)

CITY OF HUXLEY, IOWA

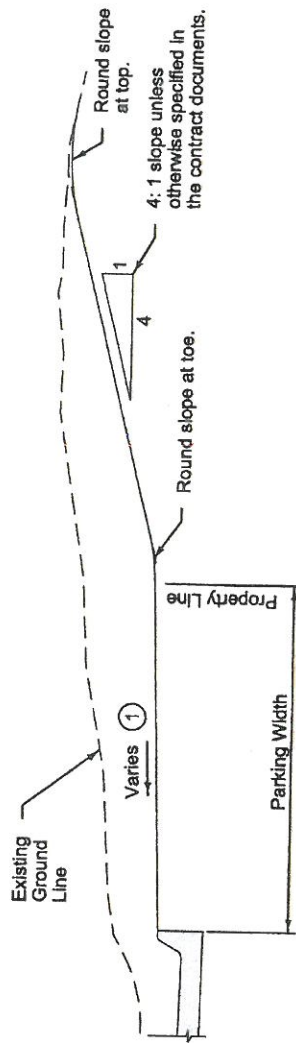
SNYDER & ASSOCIATES

ENGINEERS
PLANNERS

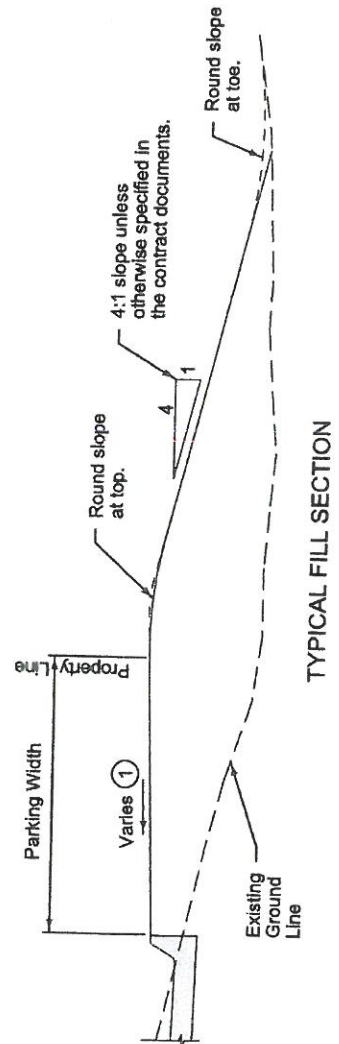
301 NORTH ANCEY BOULEVARD
ANCEY, IA 50021 (515) 964-8030

RESIDENTIAL
DRIVEWAY DETAILS

- ① Parking Slope:
If parking width is less than 10 feet wide, slope at 1/4 inch per foot.
If parking width is 10 feet wide and greater, slope at 1/2 inch per foot.



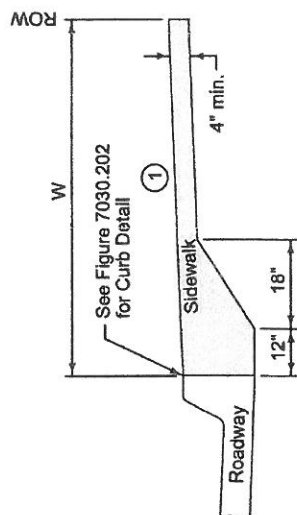
TYPICAL CUT SECTION



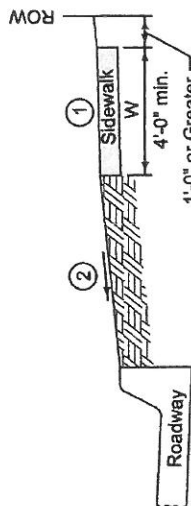
TYPICAL FILL SECTION

	REVISION	1	10-21-14
	SUDAS	7030.104	SHEET 1 of 1
SUDAS Standard Specifications			
RIGHT-OF-WAY GRADING			

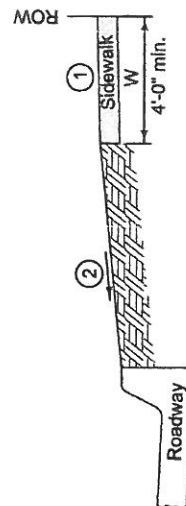
All Residential Sidewalks conform to "Class B Sidewalk" with a 5' minimum



CLASS A SIDEWALK
(Sidewalk extends from back of curb to ROW)



CLASS B SIDEWALK



CLASS C SIDEWALK

← Residential

- ① Target cross slope of 1.5% with a maximum cross slope of 2.0% (including sidewalk through driveway).
 - ② Parking Slopes:
If parking width is less than 10 feet wide, slope at $\frac{1}{4}$ inch per foot.
If parking width is 10 feet wide and greater, slope at $\frac{1}{2}$ inch per foot.
- Special grade may be specified in the contract documents.

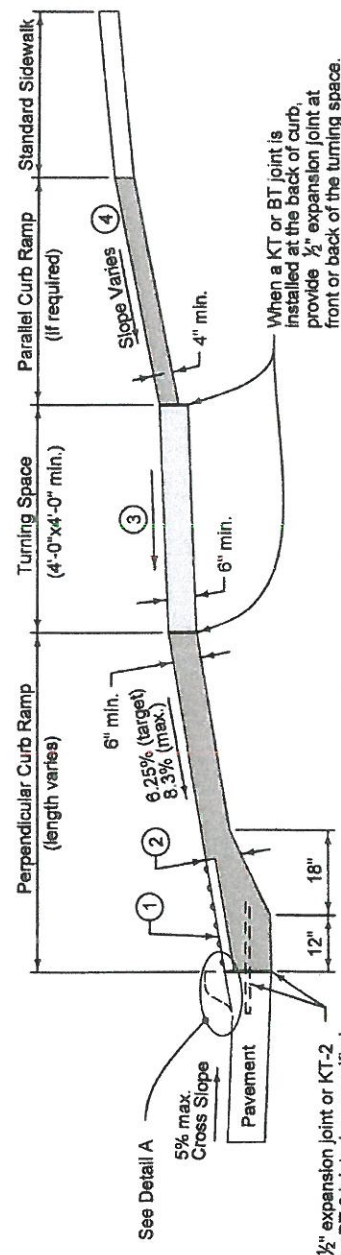
W = Sidewalk width as specified in the contract documents.

REVISION		2	10-20-15
7030.201			
SHEET 1 of 1			
		SUDAS	
SUDAS Standard Specifications			
CLASSES OF SIDEWALKS			

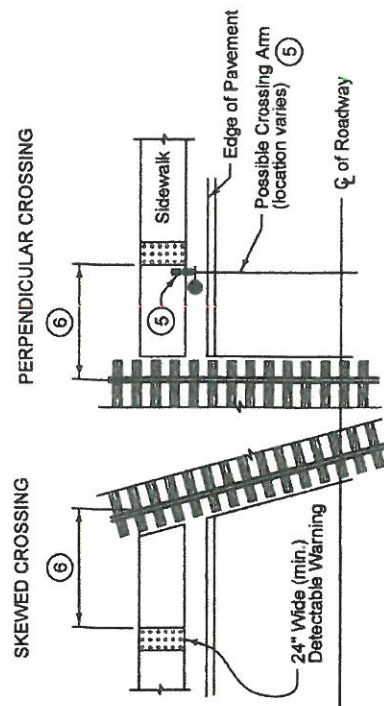
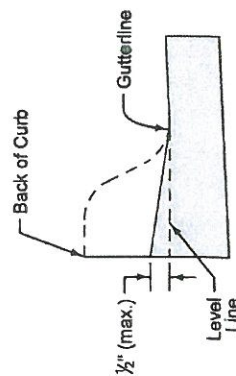
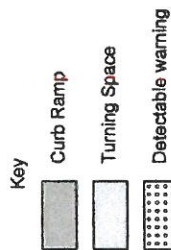
- ① Provide a minimum 2 foot width of detectable warning surfaces in the direction of pedestrian travel across the full width of the curb ramp or turning space, exclusive of curbs or flares.
- ② Provide a minimum of 6 inches of concrete below the detectable warning panel.
- ③ Minimum 4 feet by 4 feet. Target cross slope of 1.5% with a maximum cross slope of 2.0%.
- ④ If normal sidewalk elevation cannot be achieved with the perpendicular ramp between the street and landing due to limited ramp length, provide a parallel ramp to make up the elevation difference between the landing and the standard sidewalk.

The length of the parallel ramp is not required to exceed 15 feet, regardless of the resulting slope. Do not exceed 8.3% slope for parallel ramps shorter than 15 feet.

- ⑤ If crossing gate conflicts with location of detectable warning or if pedestrian crossing gate is provided, place detectable warning panel in advance of the crossing gate.
- ⑥ Locate front edge of detectable warning panel 12 to 15 feet from centerline of nearest rail. Orient truncated domes parallel to the direction of pedestrian travel.



TYPICAL SECTION - CURB RAMP

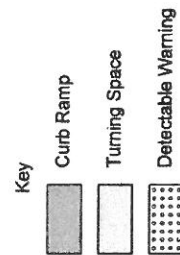


DETECTABLE WARNING LOCATION AT RAILROAD CROSSING

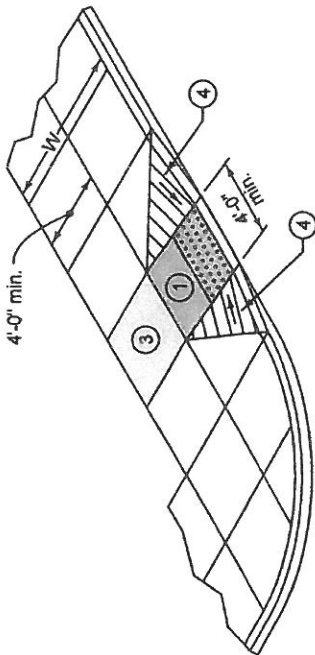


SUDAS Standard Specifications

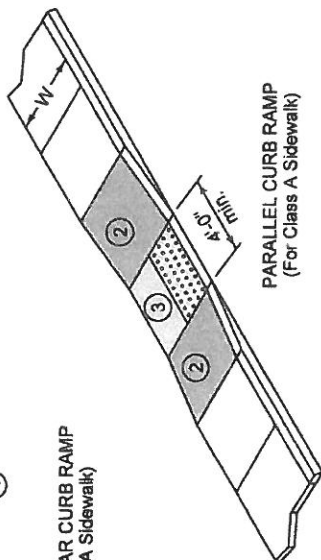
GENERAL SIDEWALK AND CURB RAMP DETAILS



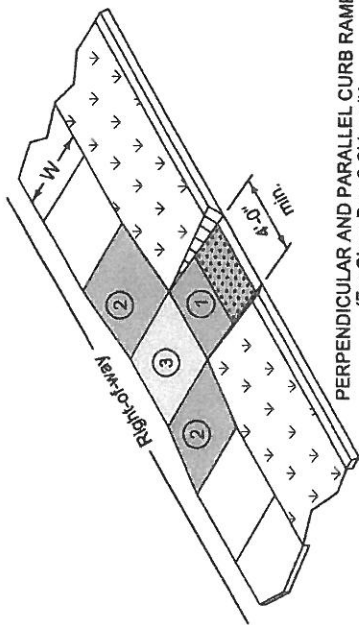
- 1 Perpendicular Curb Ramp: Target running slope of 6.25% with maximum running slope of 8.3%. Match pedestrian street crossing cross slope at back of curb. At mid-block crossings, cross slope may exceed 2.0% to match roadway grade.
- 2 Parallel Curb Ramp: Target cross slope of 1.5% with a maximum cross slope of 2.0%. The length of the parallel ramp is not required to exceed 15 feet, regardless of resulting slope. Do not exceed 8.3% slope for parallel ramps shorter than 15 feet.
- 3 Turning Space: Target slope of 1.5%, with a maximum slope perpendicular to the travel directions of 2.0%. At mid-block crossings, cross slope of landing may exceed 2.0% to match roadway grade. Minimum 4 feet by 4 feet.
- 4 Flare (10:1 max.) required if ramp is contiguous with sidewalk.



PERPENDICULAR CURB RAMP
(For Class A Sidewalk)



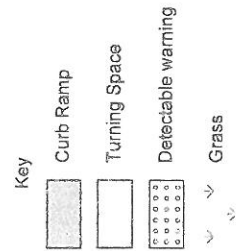
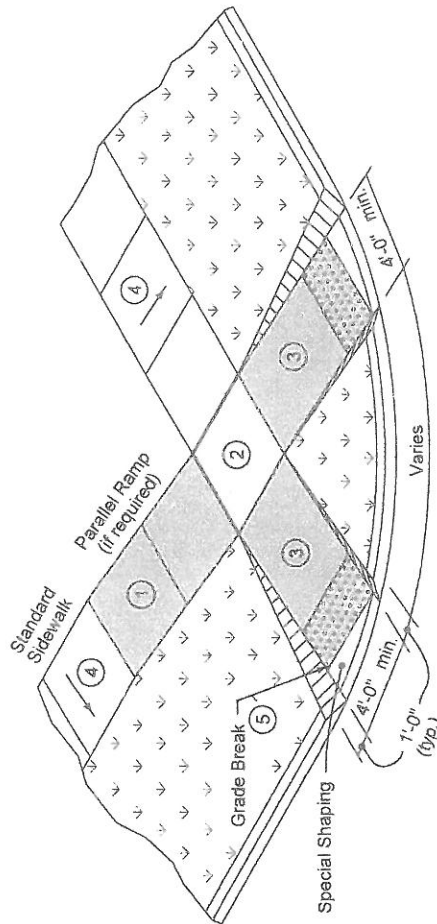
PARALLEL CURB RAMP
(For Class A Sidewalk)



PERPENDICULAR AND PARALLEL CURB RAMP
(For Class B or C Sidewalk)

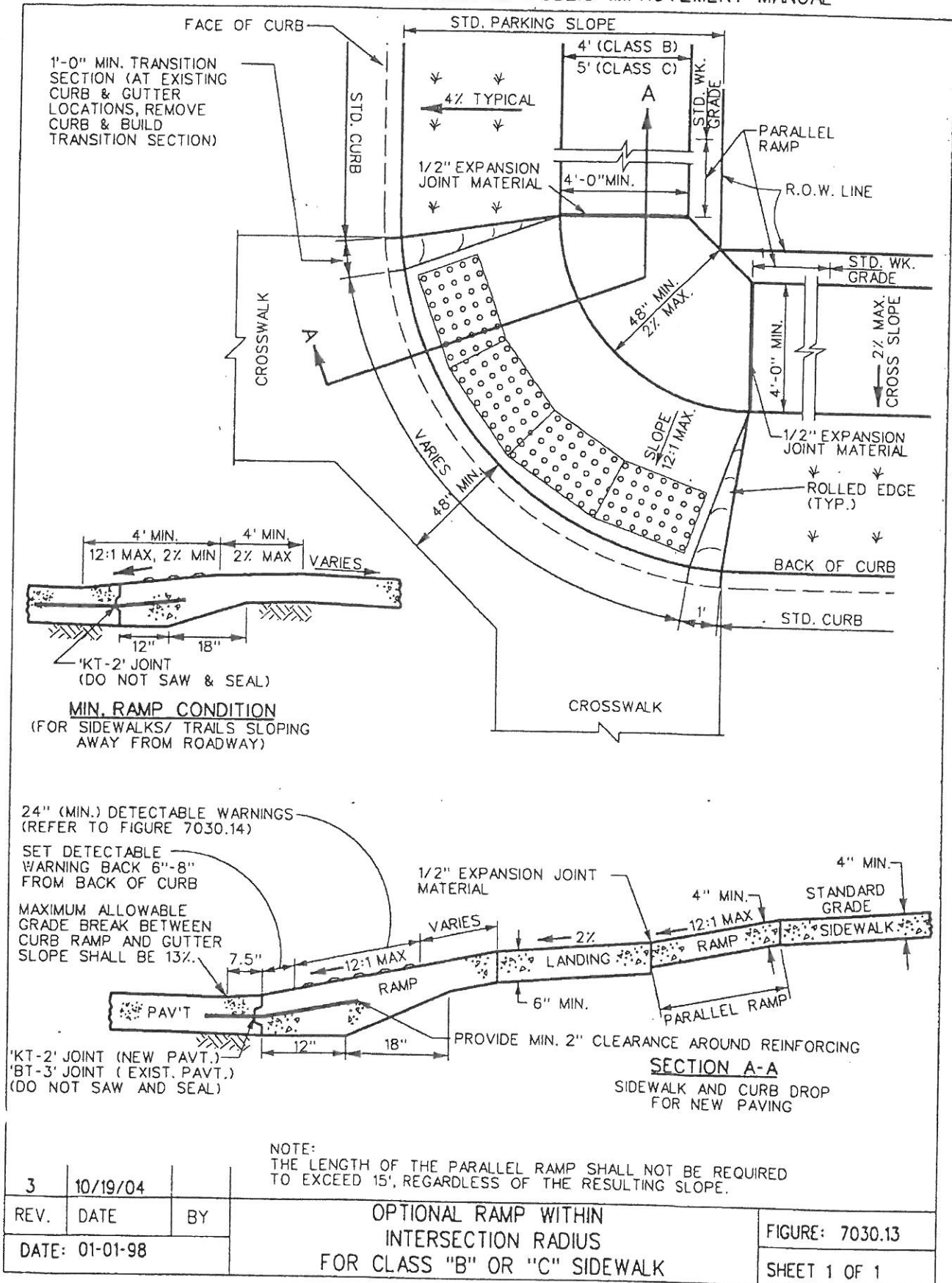
 SUDAS	REVISION	7030.206	SHEET 1 of 1
	New	10-16-12	
SUDAS Standard Specifications			
CURB RAMPS OUTSIDE OF INTERSECTION RADIUS			

- ① Parallel Curb Ramp: If normal sidewalk elevation cannot be achieved with the perpendicular ramp between the street and landing due to limited ramp length, provide a parallel ramp to make up the elevation difference between the landing and the standard sidewalk.
The length of the parallel ramp is not required to exceed 15 feet, regardless of the resulting slope. Do not exceed 8.3% slope for parallel ramps shorter than 15 feet.
- ② Turning Space: Target slope of 1.5% with maximum slope perpendicular to the travel directions of 2.0%. Minimum 4 feet by 4 feet.
- ③ Perpendicular Curb Ramp: Target running slope of 6.25% with maximum running slope of 8.3%.
- ④ Target cross slope of 1.5% with a maximum cross slope of 2.0%.
- ⑤ Match pedestrian street crossing cross slope or flatter.

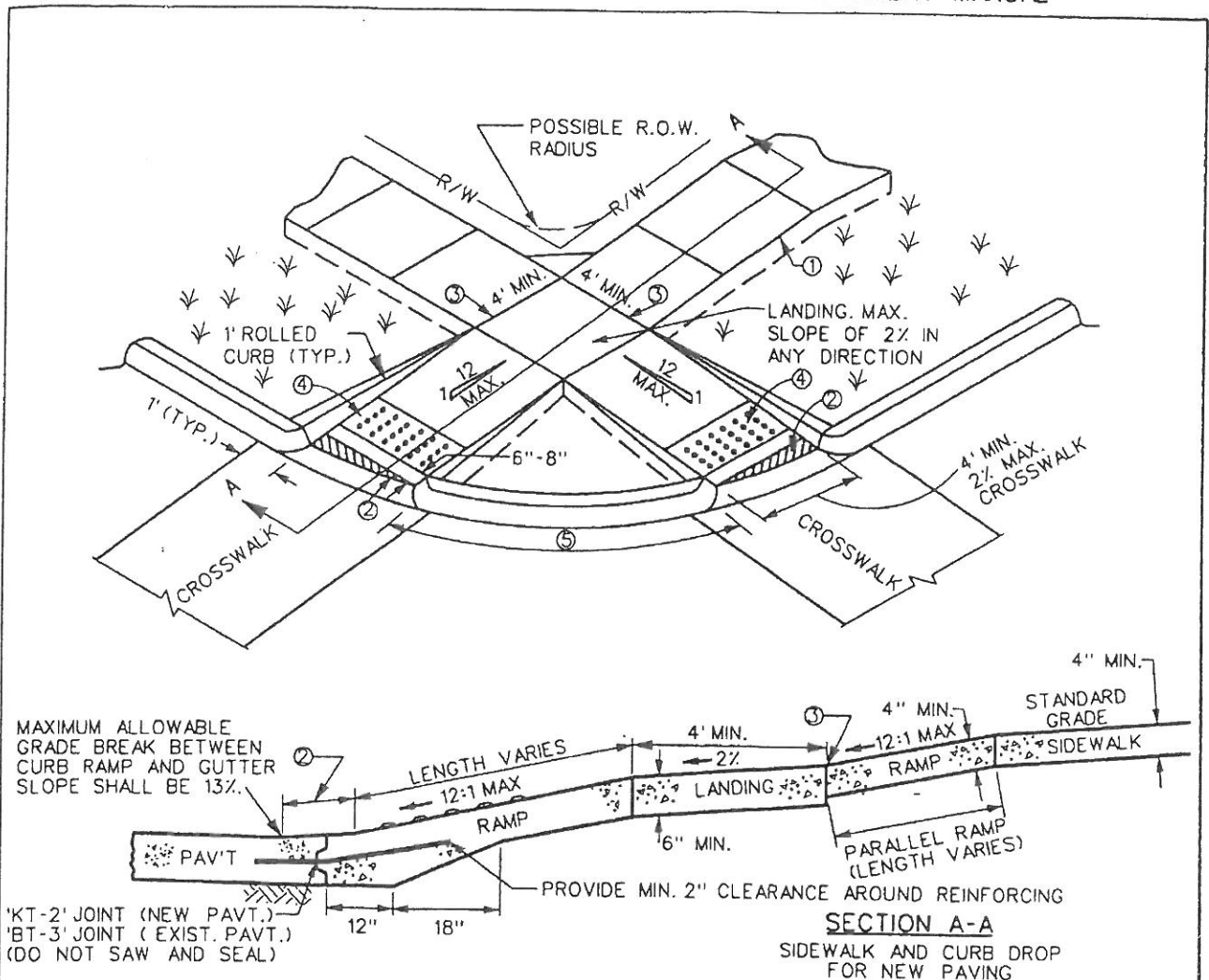


	REVISION	7030.207
	New	7030.207
SUDAS Standard Specifications		SHEET 1 of 1
CURB RAMP FOR CLASS B OR C SIDEWALK		

URBAN STANDARD SPECIFICATIONS for PUBLIC IMPROVEMENT MANUAL



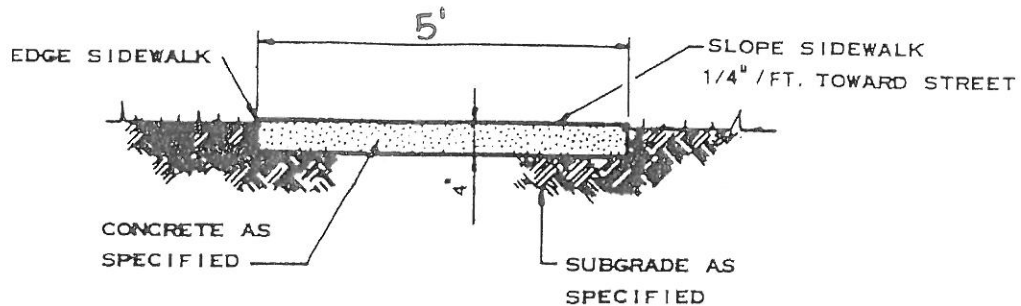
URBAN STANDARD SPECIFICATIONS for PUBLIC IMPROVEMENT MANUAL



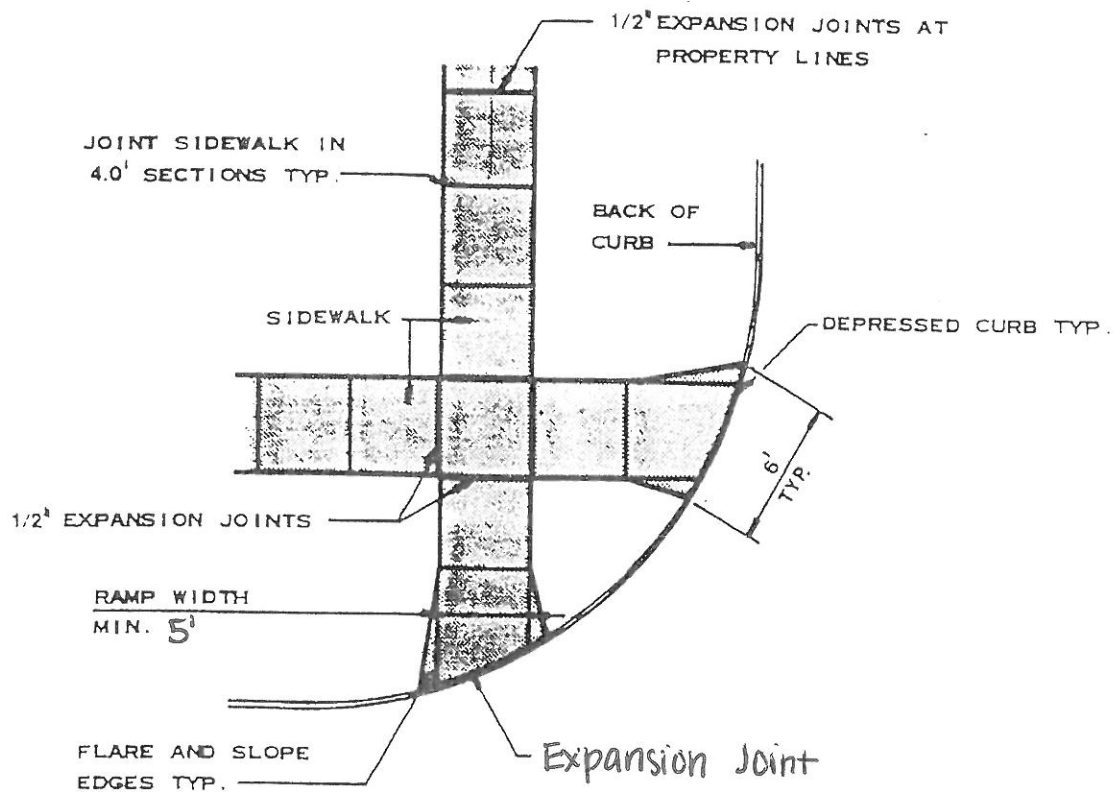
NOTES:

- ① COMBINATION RAMP: IF NORMAL SIDEWALK ELEVATION CANNOT BE ACHIEVED WITH RAMP BETWEEN STREET AND LANDING DUE TO LIMITED RAMP LENGTH, A COMBINATION RAMP MUST BE PROVIDED TO MAKE UP THE ELEVATION DIFFERENCE. THE LENGTH OF PARALLEL RAMP MAY VARY; HOWEVER, IT SHALL NOT BE REQUIRED TO EXCEED 15', REGARDLESS OF THE RESULTING SLOPE
- ② UNLESS CURB RAMP IS ALIGNED PERPENDICULAR TO THE STREET RADIUS, AN AREA OF SPECIAL SHAPING MUST BE PROVIDED AT THE BOTTOM OF THE RAMP. THIS AREA SHALL ALLOW THE GRADE BREAK AT THE BOTTOM OF THE RAMP TO BE PERPENDICULAR TO THE RAMP AND SHALL PROVIDE A SMOOTH TRANSITION TO THE GUTTERLINE FOR WHEELCHAIR ACCESS. NO CURB LIP ALLOWED IN THIS AREA. MAXIMUM CROSS SLOPE SHALL BE 2%.
- ③ PROVIDE 1/2" EXPANSION JOINT ON EITHER SIDE OF LANDING
- ④ PROVIDE 24" WIDTH (MIN) DETECTABLE WARNING ACROSS FULL WIDTH OF RAMP. DETECTABLE WARNINGS SHALL BE SET BACK 6-8" FROM THE BOTTOM OF RAMP. REFER TO FIGURE 7030.14.
- ⑤ MINIMUM WIDTH OF ISLAND SHALL BE 5' AT STREET. IF LESS THAN 5', REFER TO OPTIONAL RAMP FIGURE 7030.13

4	10/19/04		PREFERRED RAMP WITHIN INTERSECTION RADIUS FOR CLASS "B" OR "C" SIDEWALK	FIGURE: 7030.12 SHEET 1 OF 1
REV.	DATE	BY		
DATE: 01-01-98				



SECTION



PLAN

CITY OF HUXLEY, IOWA

SNYDER & ASSOCIATES

ENGINEERS
PLANNERS

101 NORTH AMHERST BOULEVARD
AMHERST, N. H. 03021 (515) 964-2020

SIDEWALK DETAILS