



Community Development
1900 NW 114th ST
Clive, IA 50325
Phone: (515) 223-6221

Public Works
Engineering Department
2123 NW 111th ST
Clive, IA 50325
Phone: (515) 223-6221

Residential Driveway Approaches

Approach: The portion of a residential driveway located within the right-of-way (often between the sidewalk and street), including any portion of the street which has been altered from original street construction for the purpose of establishing said driveway.

Box out: Any portion of the approach that extends into the street beyond the back of curb. May be separated by cuts or joints or monolithic in nature.

A permit shall be obtained from the Community Development Department **with acknowledgement of the requirements set forth below BEFORE starting construction**. Acknowledgement of requirements can be a confirming email or phone call; no onsite pre-construction meeting is needed unless the street has been overlaid. Call Community Development 24 hours in advance to schedule an inspection prior to pouring concrete. **Photo verification shall be sent after pour is sealed/completed in order to final box out application; the project will not pass without photos.**

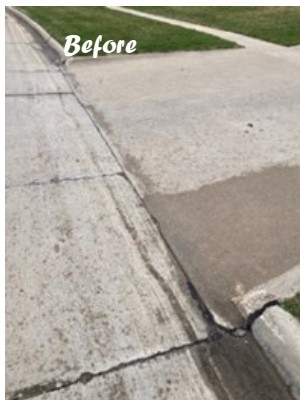
Specifications:

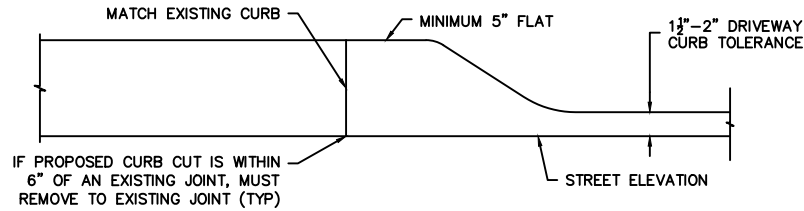
- Concrete shall be C-4 or m-4 mixture.
- Base material must be undisturbed soil or compacted 3/8" minimum subgrade material (sand or pea gravel are NOT acceptable).
- Approach shall be separated from street at back of curb with full-depth foam expansion joint; fiberboard is not acceptable.
- Street-to-approach joint must be sealed with concrete joint filler (Sikaflex, Vulkem 45SSL).

If the approach stops at the back of the curb, approach tear out can stop at this point and poured back the same way; no box out will be needed.

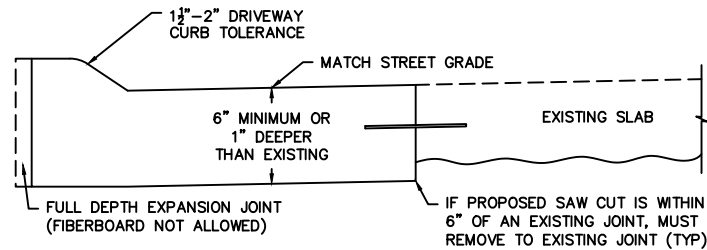
If existing driveway extends outward into the street beyond back of curb, a new box out will be required and must be poured separately. ***If all requirements set forth below have not been met, the approach may be subject to tear out!***

- A minimum 24" street cut is required.
- #4 deformed epoxy coated rebar 30" on center is required the length of the street cut.
- Reinforcing material shall not extend through back of curb line.
- 2- 3/4" smooth epoxy coated dowels are required the width (min 24") of the street cut from the back of curb.
- ***The street cut, curb, gutter, and approach must be poured back separately with either a C-4 or m-4 mixture.***
- Expansion joints on all four sides of the driveway sidewalk are required.

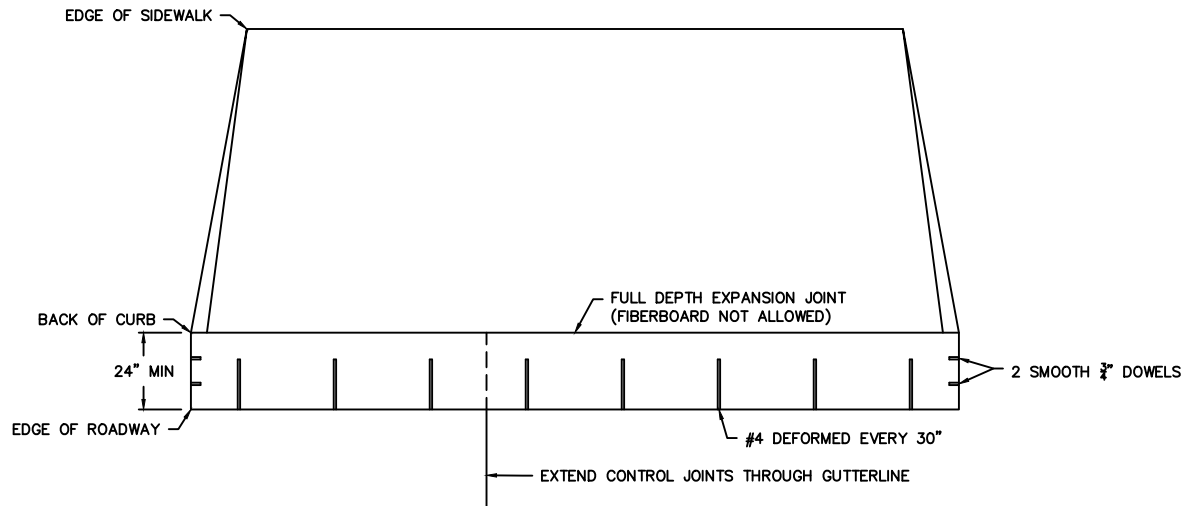




DRIVEWAY FLARE DETAIL CROSS SECTION



CURB & GUTTER CROSS SECTION



TOP VIEW

- ① C MIX MINIMUM
- ② BASE MUST BE UNDISTURBED OR COMPACTED ROADSTONE. IF OVERDUG, FILL WITH ROADSTONE TO APPROPRIATE GRADE AND COMPACT.
- ③ ALL DOWELS AND PINS EPOXY COATED AND GLUED IN PLACE WITH CONCRETE ANCHOR AT A MINIMUM EMBEDMENT OF 8".
- ④ FOR PROPER DOWEL AND REBAR SIZING, SEE DOWEL/REBAR SIZING CHART ON THIS PAGE.
- ⑤ SEAL ALL JOINTS IN STREET, WITH CONCRETE JOINT FILLER (EX: SIKAFLEX, VULKUM 45 SSL)
- ⑥ DRIVEWAY WIDTH (W)
RESIDENTIAL: 8 FOOT MINIMUM
18 FOOT MAXIMUM AT STREET SIDEWALK
24 FOOT MAXIMUM AT STREET
COMMERCIAL AND INDUSTRIAL: AS SPECIFIED IN THE CONTRACT DOCUMENTS
- ⑦ THESE SPECIFICATIONS APPLY ONLY TO DRIVEWAYS THAT EXTEND INTO THE STREET BEYOND THE BACK OF CURB.
- ⑧ ALL DEFORMED AND SMOOTH BARS SHALL BE 16" IN LENGTH AND EMBEDDED 8" INTO THE CONCRETE.

DOWEL/REBAR SIZING		
EXISTING SLAB	DOWELS	REBAR
≤7"	3"	#4
8"	3"	#5
9"	1"	#5
≥10"	1 1/2"	#6
* MINIMUM OF 18" FOR DOWEL AND REBAR LENGTH		