

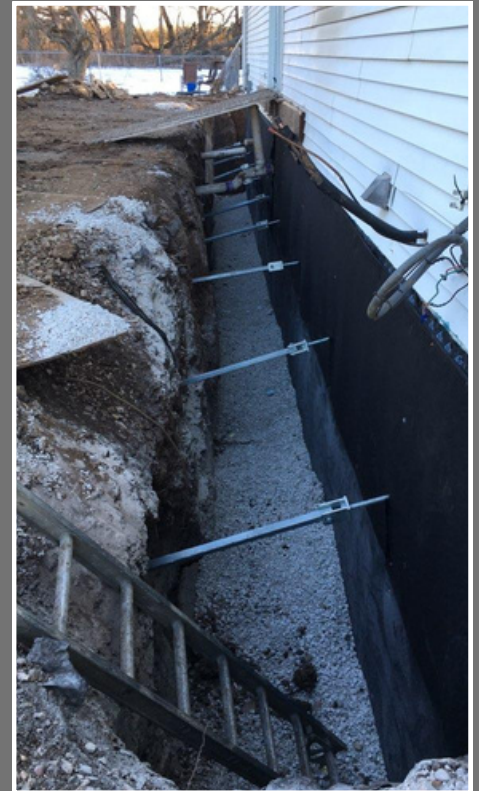
Basement Box-Out

Bowing Walls Tied Back & Waterproofed to Prevent Further Creep

Kansas

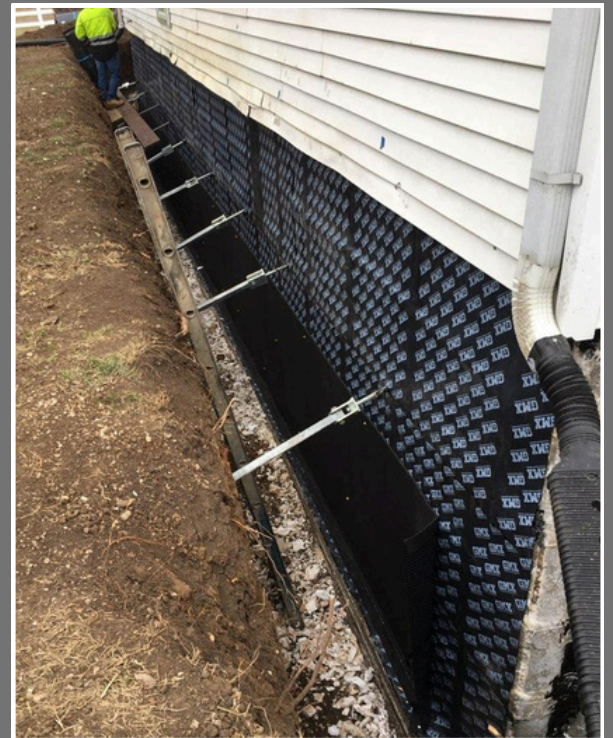
WATERPROOFING PROJECT OF THE YEAR FINALIST

A residential ranch style home in Kansas with a full basement approximately 50 feet in length by 26 feet in width had serious foundation concerns. The basement was originally poured using insulated concrete forms, an expanded polystyrene foam that interlocks creating a solid, monolithic concrete wall reinforced with rebar.



The wall was pushed in 5" in the middle of the west wall, 3" on the south wall, and 4" on the east wall. Even though the wall was a monolithic pour, the wall is still segmented similar to a concrete block wall, but with foam between the joints instead of mortar. The wall is weaker than a continuously poured concrete foundation wall. Before intervening, the wall was leaking in the corners and in a few areas throughout the center of the wall.

KC Pro Waterproofing fully excavated the 3 walls and installed 24 tieback earth anchors to straighten the wall. They also used pipe jacks to help straighten the wall. Once the 3 walls were straightened, they started the waterproofing process. The team applied MasterSeal HLM (High-Liquid-Mastic) to the footings, and were careful to seal the cold joint between the footing and the wall. They applied water-based primer and allowed it to cure, then applied dimple drainage board over the sheet membrane on the three walls. Then they installed a 4-inch perforated sock tile beside the footing around the perimeter and terminated inside to a new 26-inch sump pit with a new S3033 sump pump and discharge. 2 feet of gravel were poured over the drainage pipe and then they finished the backfill. All downspouts were then extended out a minimum of 10 feet away from the foundation.



KC Pro's team of installers:
Robert Dietrich Kramer III



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