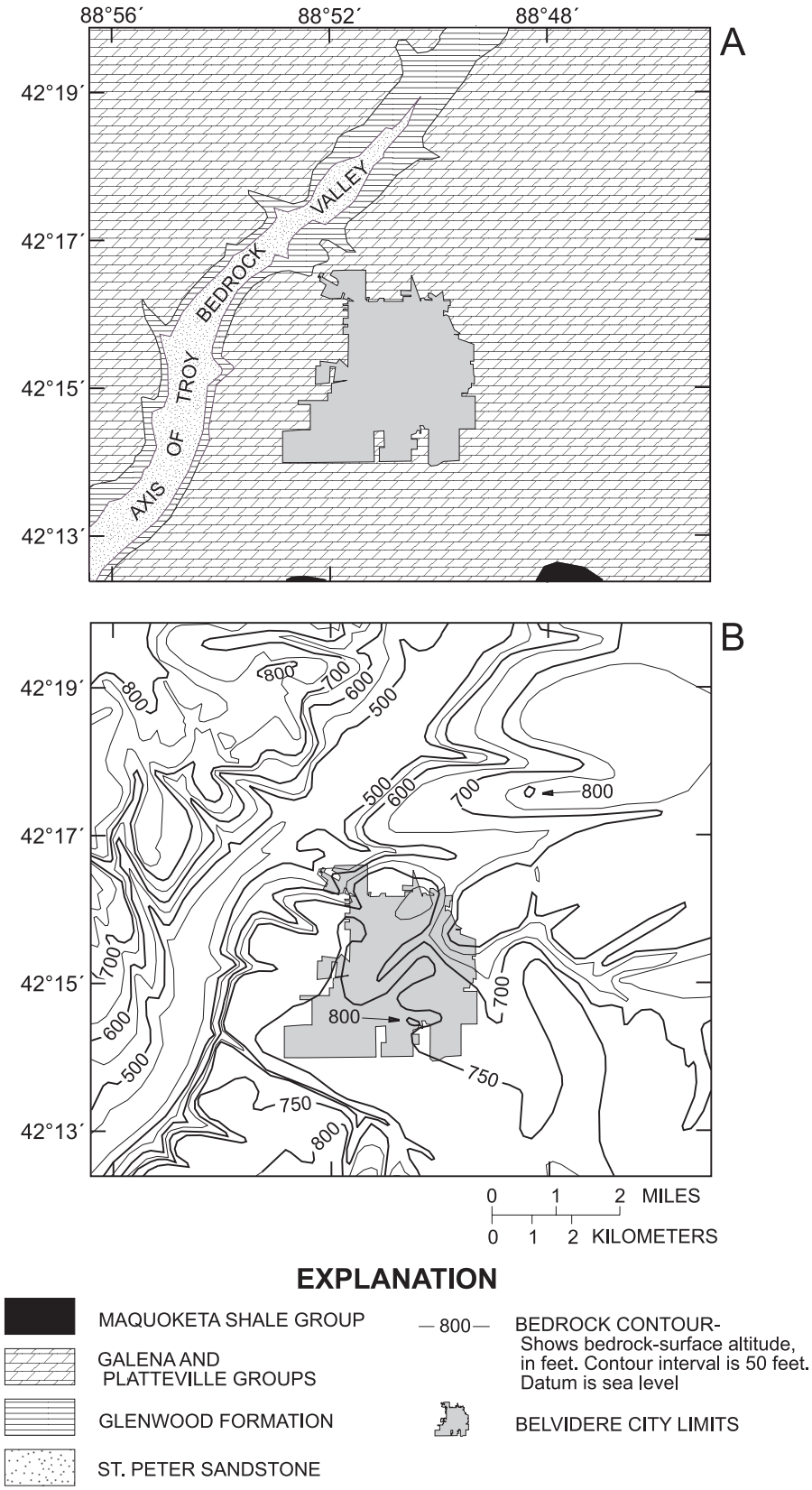

Figure 3. Surficial bedrock geology (A) and bedrock topography (B) in the vicinity of Belvidere, Ill. (modified from Berg and others, 1984, fig. 7 and fig.10)

SYSTEM	ROCK STRATIGRAPHY		AQUIFER OR CONFINING UNIT			LOG	THICK-NESS (FEET)	DESCRIPTION
QUATERNARY	Undesignated		Glacial drift aquifer and Confining unit				0-385	Unconsolidated glacial deposits-pebbly clay (till), silt, sand and gravel Alluvial silts and sands of Holocene age along streams
							Fissure fillings	Shale, sandy, brown to black
ORDOVICIAN	Maquoketa Shale Group		Confining unit				0-45	Shale, silty, dolomitic, greenish gray, weak (Upper unit) Dolomite and limestone, white, light gray, interbedded shale (Middle unit) Shale, dolomitic, brown, gray (Lower unit)
	Galena Group		Galena-Platteville aquifer	Ordovician aquifer	Cambrian-Ordovician aquifer		0-300	Dolomite and/or limestone, cherty (Lower unit) Dolomite, shale partings, speckled Dolomite and/or limestone, cherty, sandy at base
	Platteville Group							
	Glenwood Formation	Ancell Group	Confining unit				0-55	Dolomite, sandstone; silty
	St. Peter Sandstone		St. Peter Sandstone aquifer				180-290	Sandstone, fine to coarse grained; locally cherty red shale at base
CAMBRIAN	Eminence Formation		Confining unit				40-120	Dolomite, light colored, sandy, thin sandstones
	Potosi Dolomite							Dolomite, fine-grained, gray to brown, drusy quartz
	Franconia Formation						60-100	Dolomite, sandstone and shale, glauconitic, green to red, micaceous
	Ironton Sandstone		Ironton-Galesville aquifer				115-160	Sandstone, fine to coarse grained, well sorted; upper part dolomitic
	Galesville Sandstone							
	Eau Claire Formation		Confining unit				200-380	Shale and siltstone, dolomitic, glauconitic; sandstone, dolomitic, glauconitic
	Elmhurst Sandstone Member		Elmhurst-Mt. Simon aquifer				about 1,600	Sandstone, coarse grained, white, red in lower half; lenses of shale and siltstone, red, micaceous in upper part
	Mt. Simon Sandstone							
PRE-CAM-BRIAN								Granitic rocks

Figure 4. Lithostratigraphic and hydrostratigraphic units in the vicinity of Belvidere, Ill.

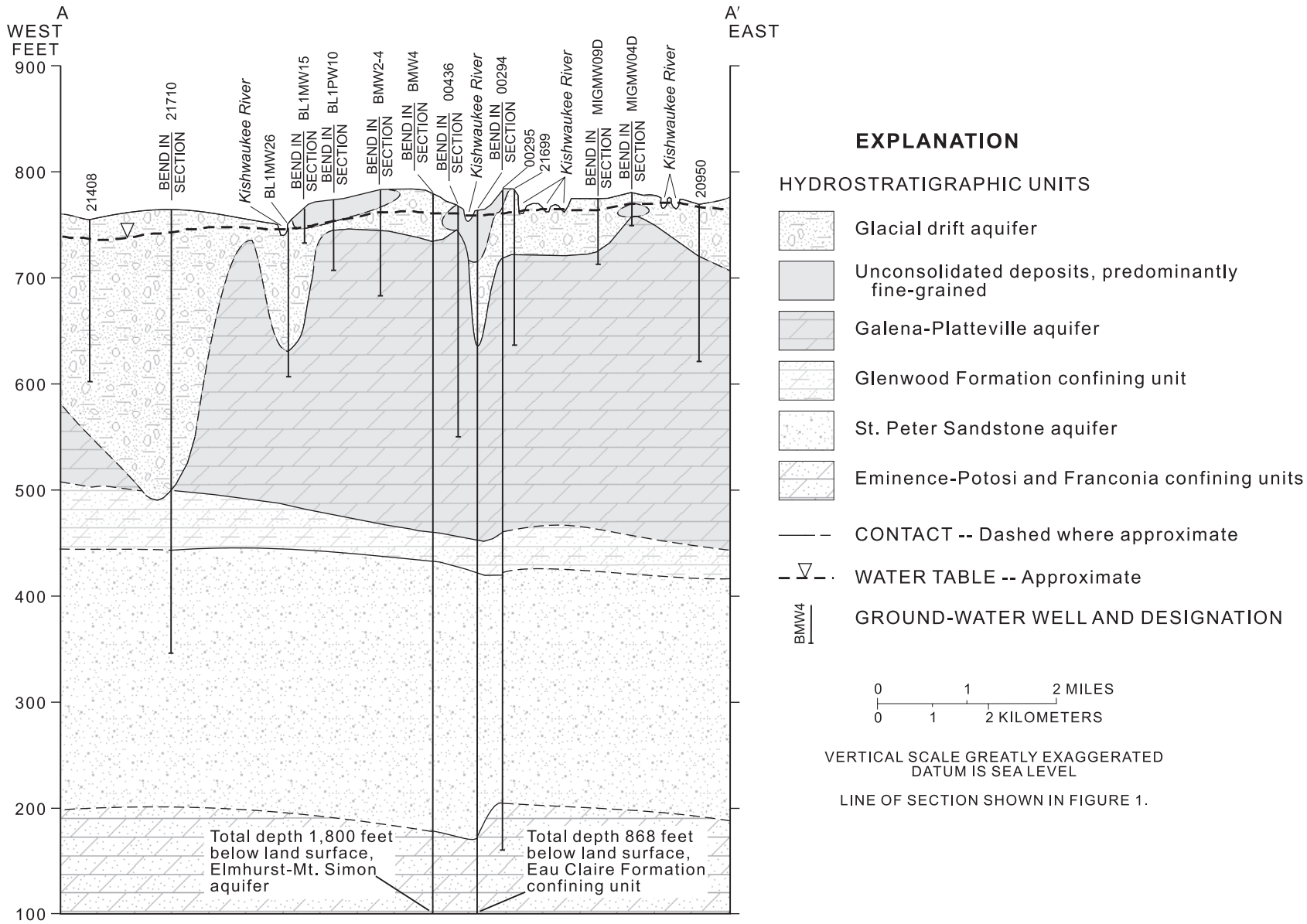

Figure 5. Hydrostratigraphic section A-A′ in the vicinity of Belvidere, Ill.