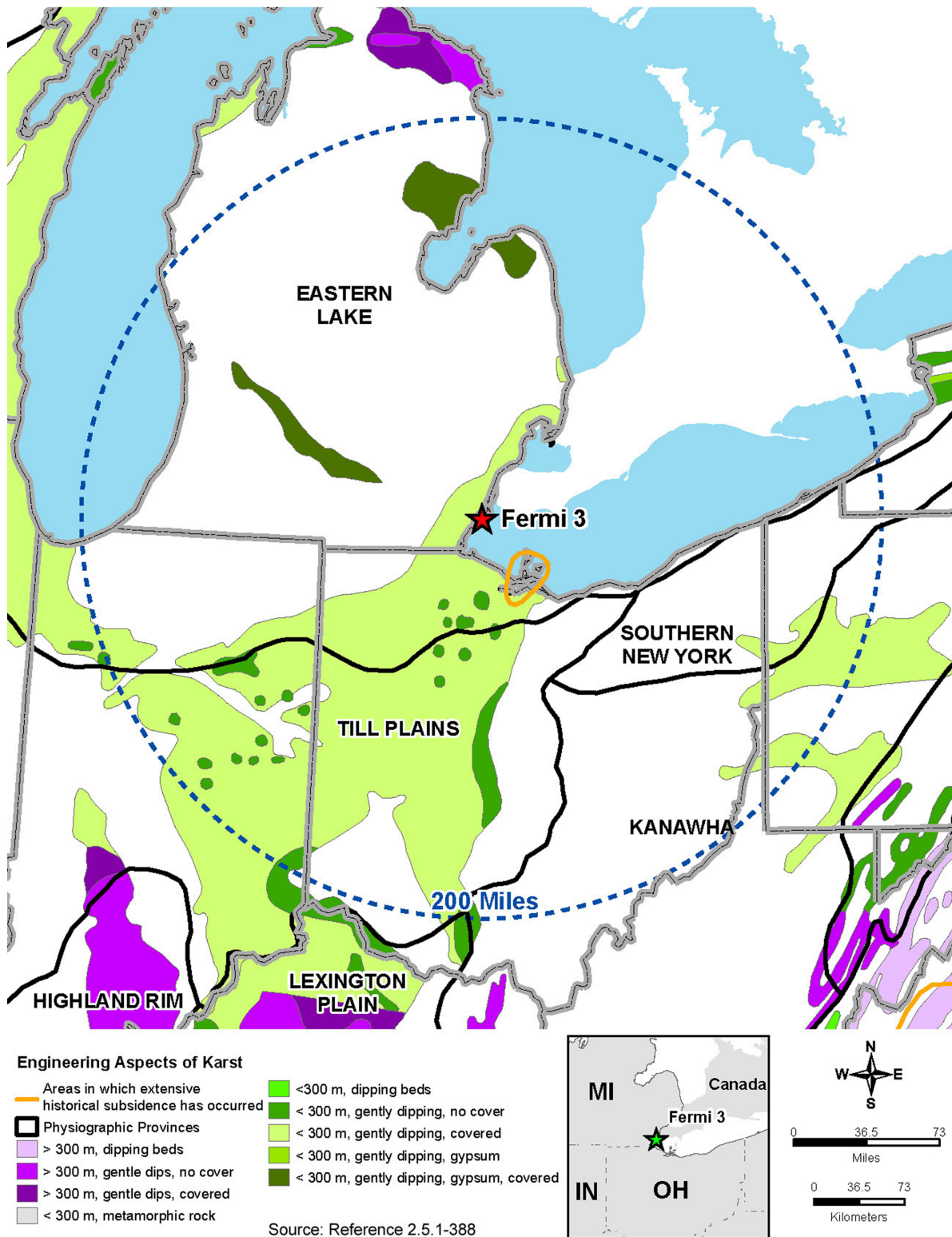


Figure 2.5.1-228 Engineering Aspects of Karst Map for the Fermi 3 Site Region



Source: [Reference 2.5.1-388](#)

Figure 2.5.1-229 Topography of the Fermi 3 Site Location

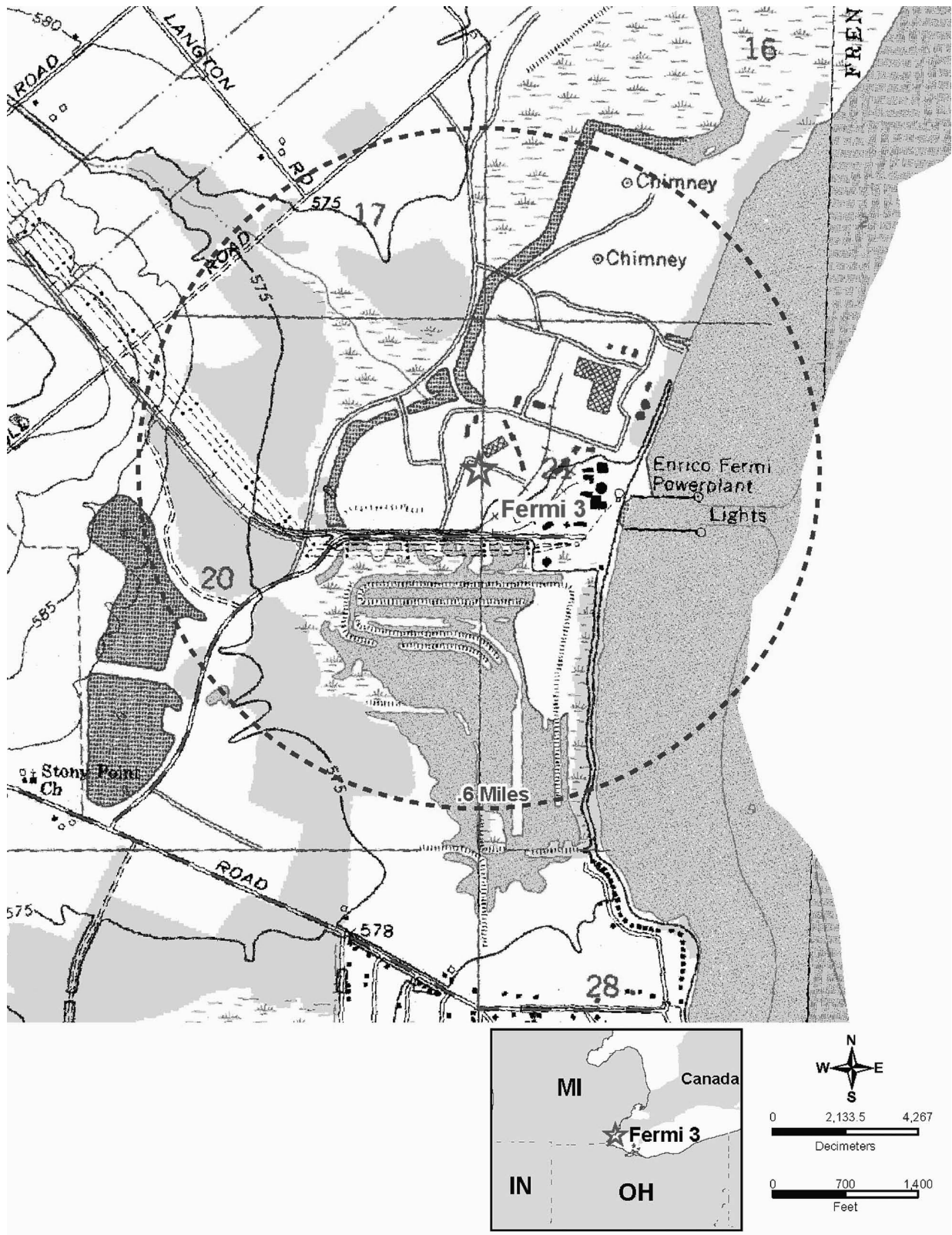


Figure 2.5.1-230 Geologic Map of the Fermi 3 Site Vicinity

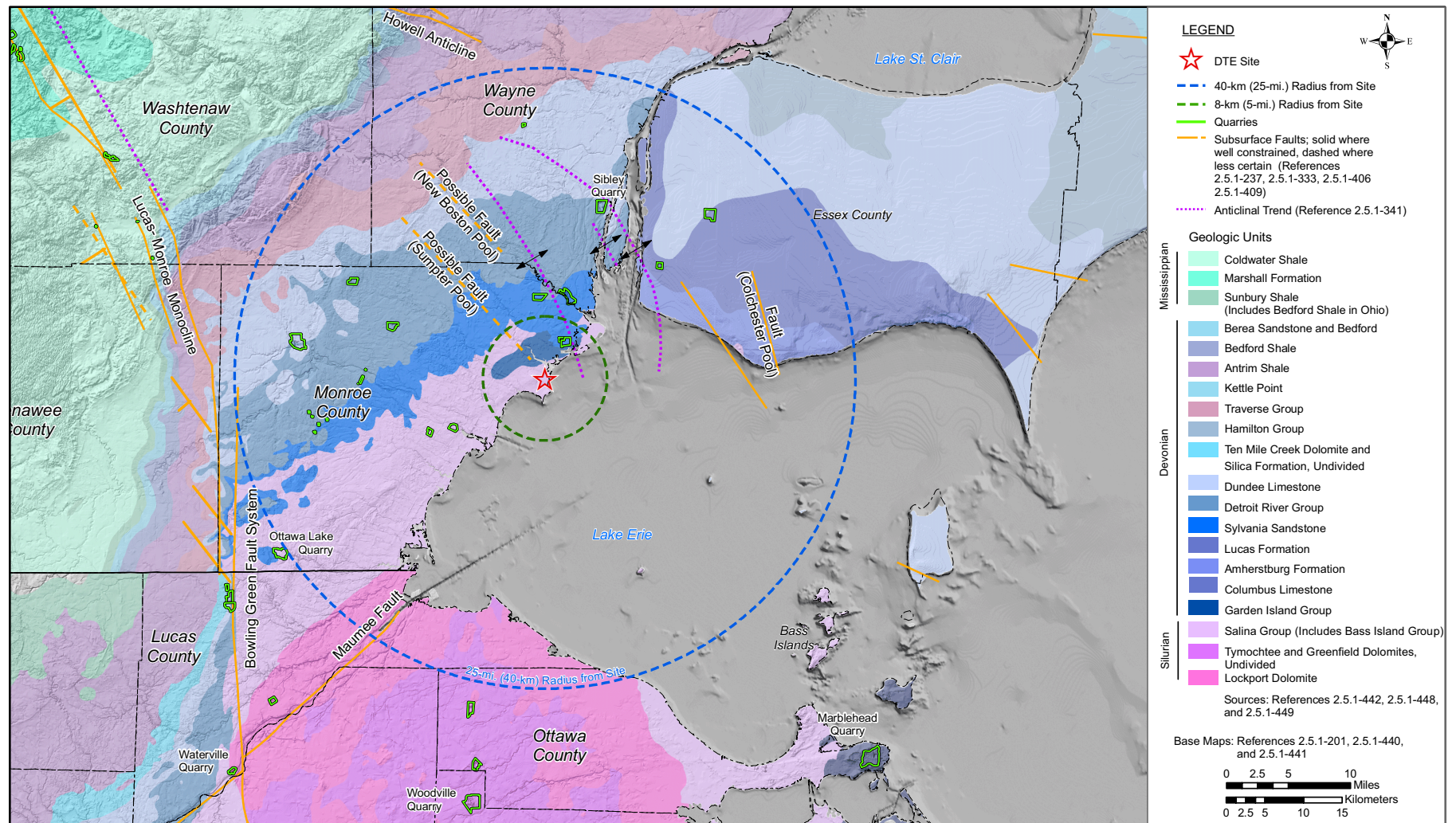


Figure 2.5.1-231 Geologic Map Showing Quaternary Features of the Fermi 3 Site Vicinity

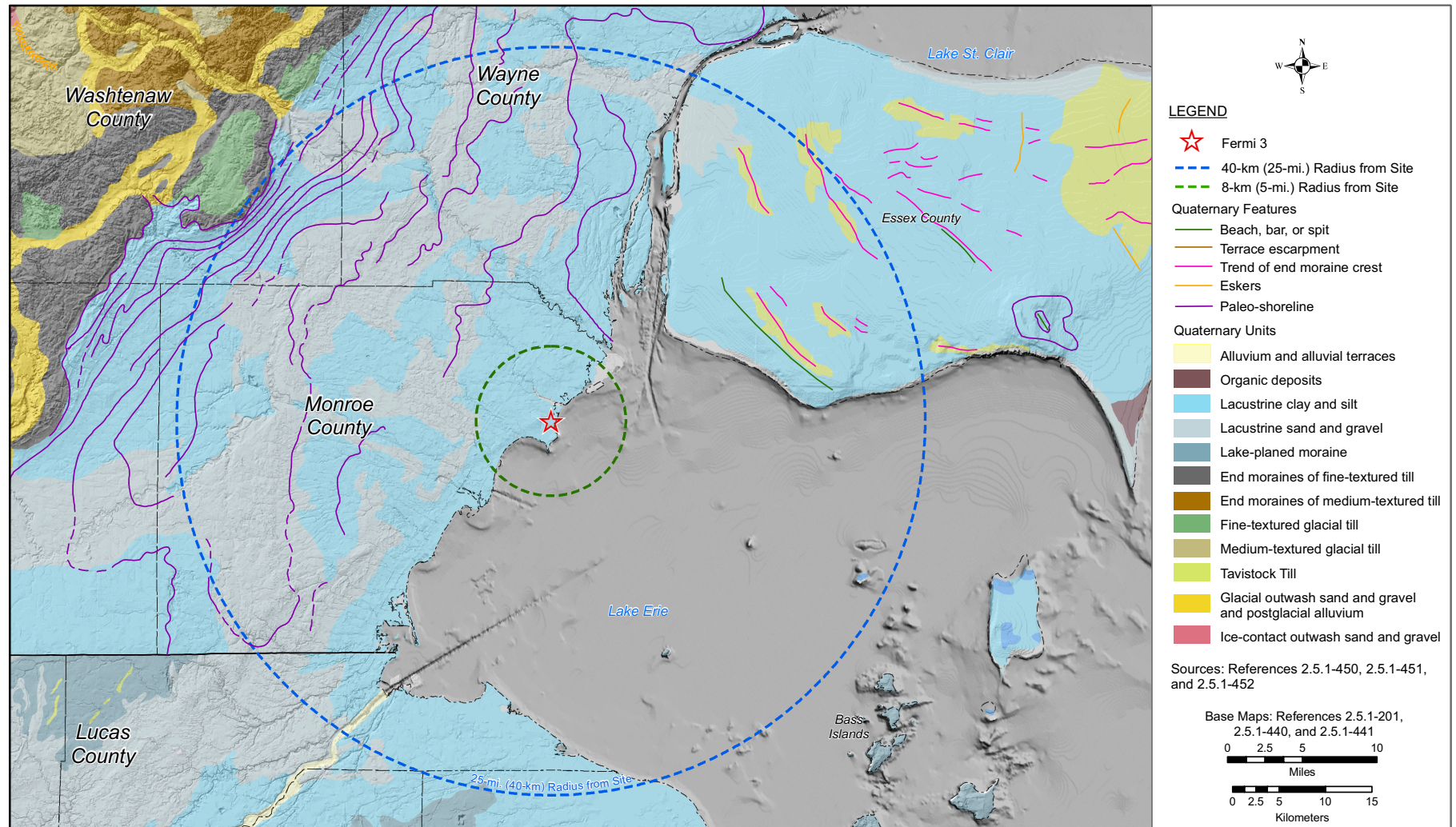
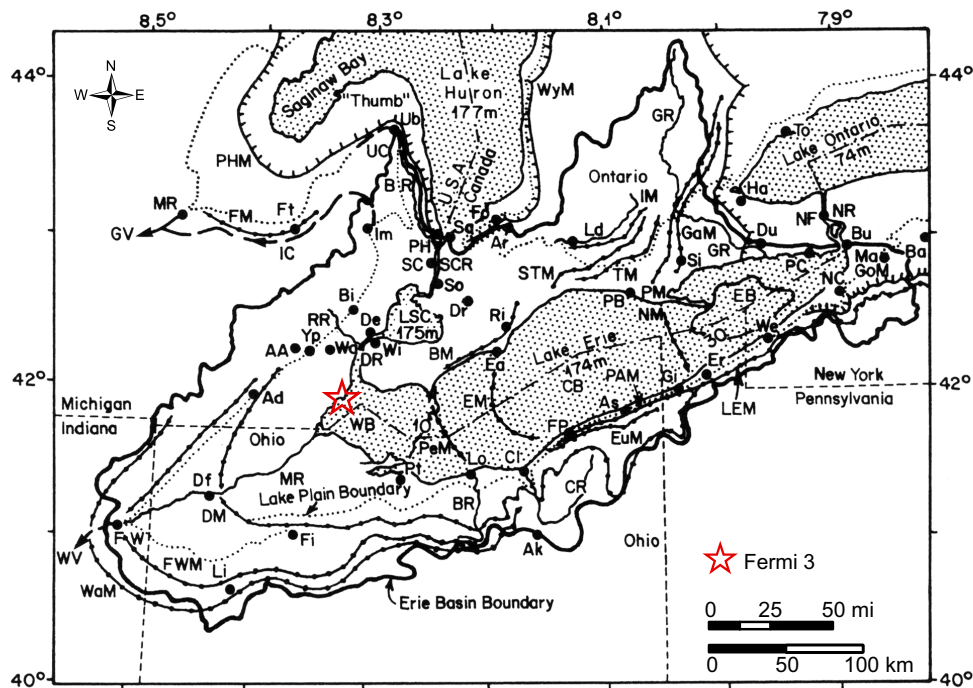


Figure 2.5.1-232 Map Showing Quaternary Features of the Erie Basin

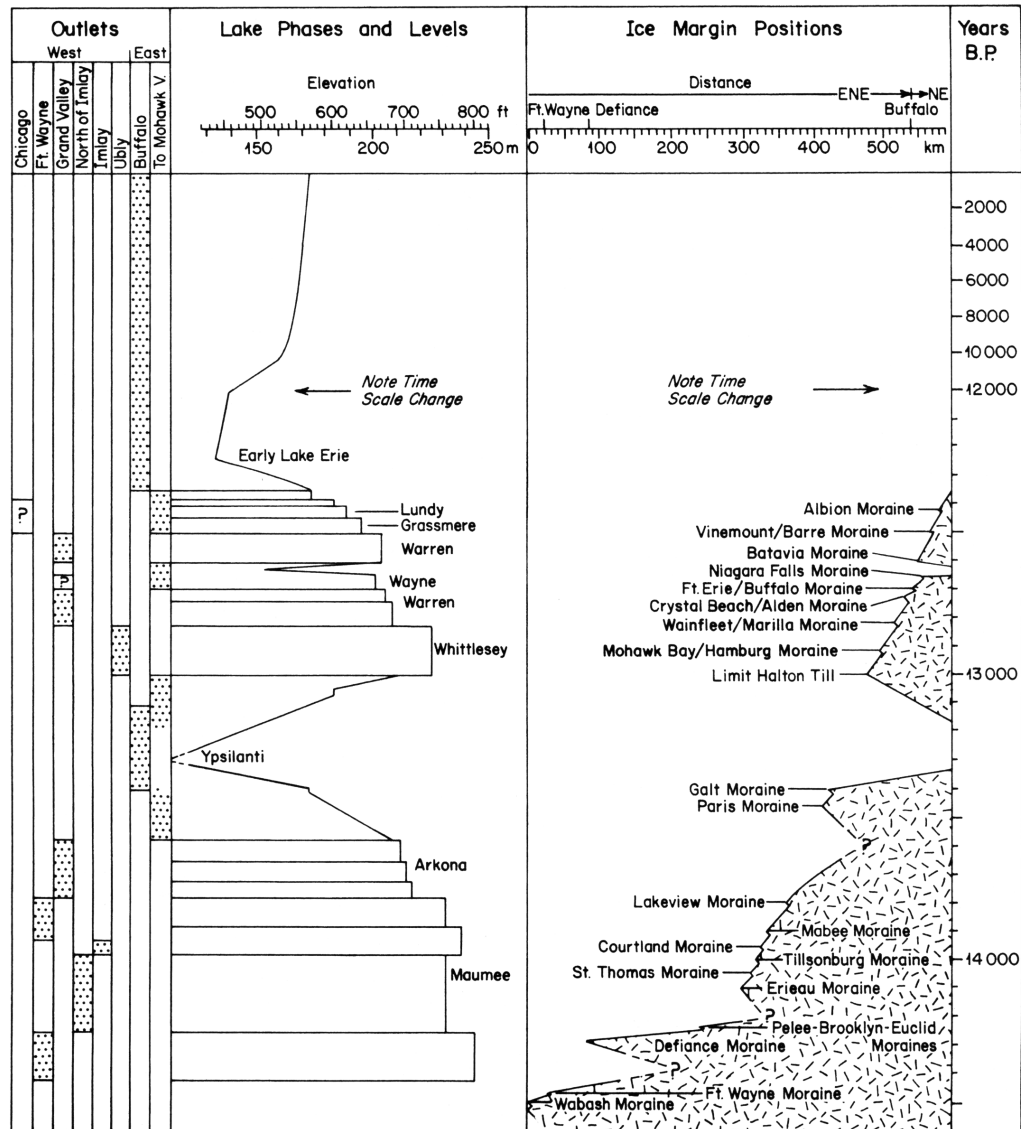


LEGEND

Towns ●			
AA — Ann Arbor	Ld — London	LSC — Lake St. Clair	Ice Margin Positions:
Ad — Adrian	Li — Lima		
Ar — Arkona	Lo — Lorain	Lake Erie:	BM — Blenheim Moraine
As — Ashtabula	Ma — Marilla	CB — Central Basin	DM — Defiance Moraine
Ba — Batavia	MR — Maple Rapids	EB — Eastern Basin	EM — Erieau Moraine
Bi — Birmingham	NC — North Collins	WB — Western Basin	EuM — Euclid Moraine
Bu — Buffalo	NF — Niagara Falls	30 — Depth contour in meters	FM — Flint Moraine
Cl — Cleveland	PB — Port Burwell		FWM — Fort Wayne Moraine
De — Detroit	PC — Port Colborne	BR — Black River	GaM — Galt Moraine
Df — Defiance	PH — Port Huron	CR — Cuyahoga River	IM — Ingersoll Moraine
Dr — Dresden	Pt — Parkertown	DR — Detroit River	LEM — Lake Escarpment Moraine
Du — Dunnville	Ri — Ridgetown	GR — Grand River	NM — Norfolk Moraine
Ea — Erieau	Sa — Sarnia	MR — Maumee River	PAM — Painesville & Ashtabula M.
Er — Erie	SC — St. Clair	NR — Niagara River	PeM — Pelee Moraine
Fi — Findlay	Si — Simcoe	RR — River Rouge	PM — Paris Moraine
Fo — Forest	So — Sombra	SCR — St. Clair River	STM — St. Thomas Moraine
FP — Fairport-Painesville	To — Toronto	← — Former Outlet	TM — Tillsonburg Moraine
FW — Fort Wayne	Ub — Ublly	GV — Grand Valley	WaM — Wabash Moraine
Gi — Girard	Wa — Wayne	IC — Imlay Channel	— — Port Huron Stadial
Ha — Hamilton	We — Westfield	UC — Ublly Channel	GoM — Gowanda Moraine
Im — Imlay	Yp — Ypsilanti	WV — Wabash Valley	PHM — Port Huron Moraine
			WyM — Wyoming Moraine

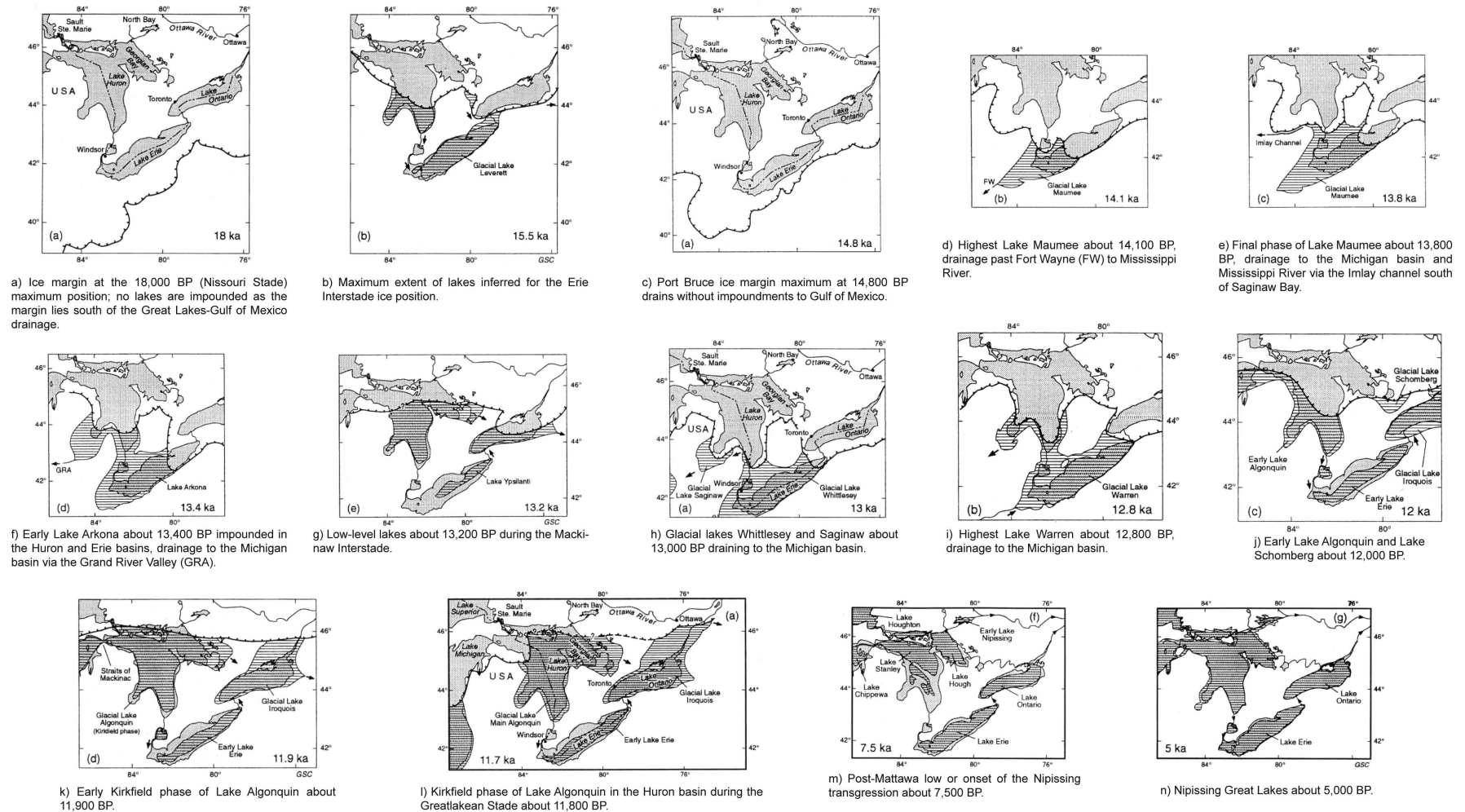
Source: [Reference 2.5.1-297](#)

Figure 2.5.1-233 Chart Showing the Lake Phases and Levels and Ice Margin Positions for the Quaternary



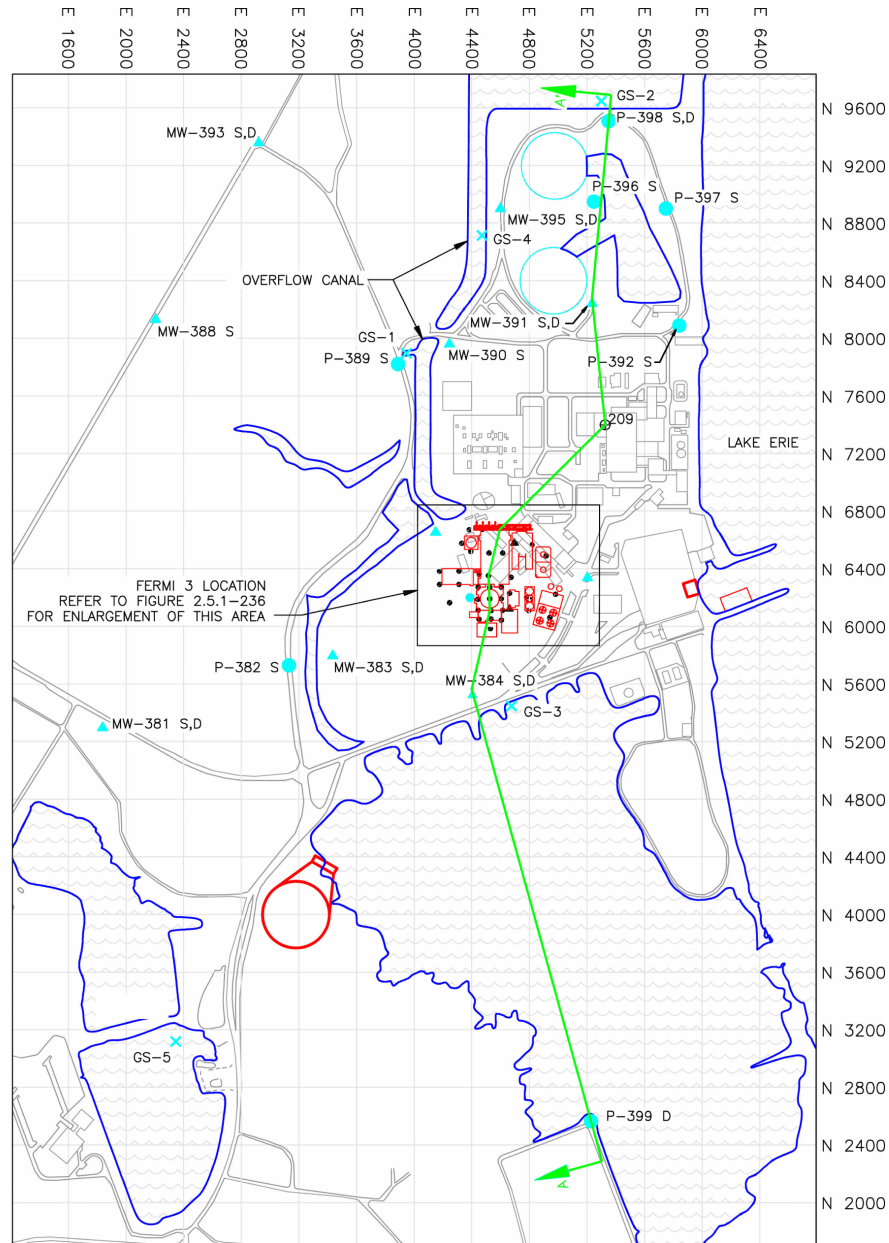
Source: [Reference 2.5.1-297](#)

Figure 2.5.1-234 Maps Showing Late Wisconsinan Ice Margins and Proglacial Lake Shorelines (~18 ka to 5ka)



Source: [Reference 2.5.1-272](#)

Figure 2.5.1-235 Site Exploration Plan



LEGEND

- FERM 3 GEOTECHNICAL BORING
- FERM 3 GEOTECHNICAL BORING WITH PIEZOMETER
- FERM 3 TEST PIT
- FERM 3 HYDROGEOLOGY BORING WITH MONITORING WELL
- FERM 3 HYDROGEOLOGY BORING WITH PIEZOMETER
- FERM 3 GAUGING STATION
- EXISTING BORING (ONLY BORING 209 SHOWN FOR CROSS SECTION)
- GEOLOGIC CROSS SECTION LOCATION
- FERM 3 FACILITIES

NOTES

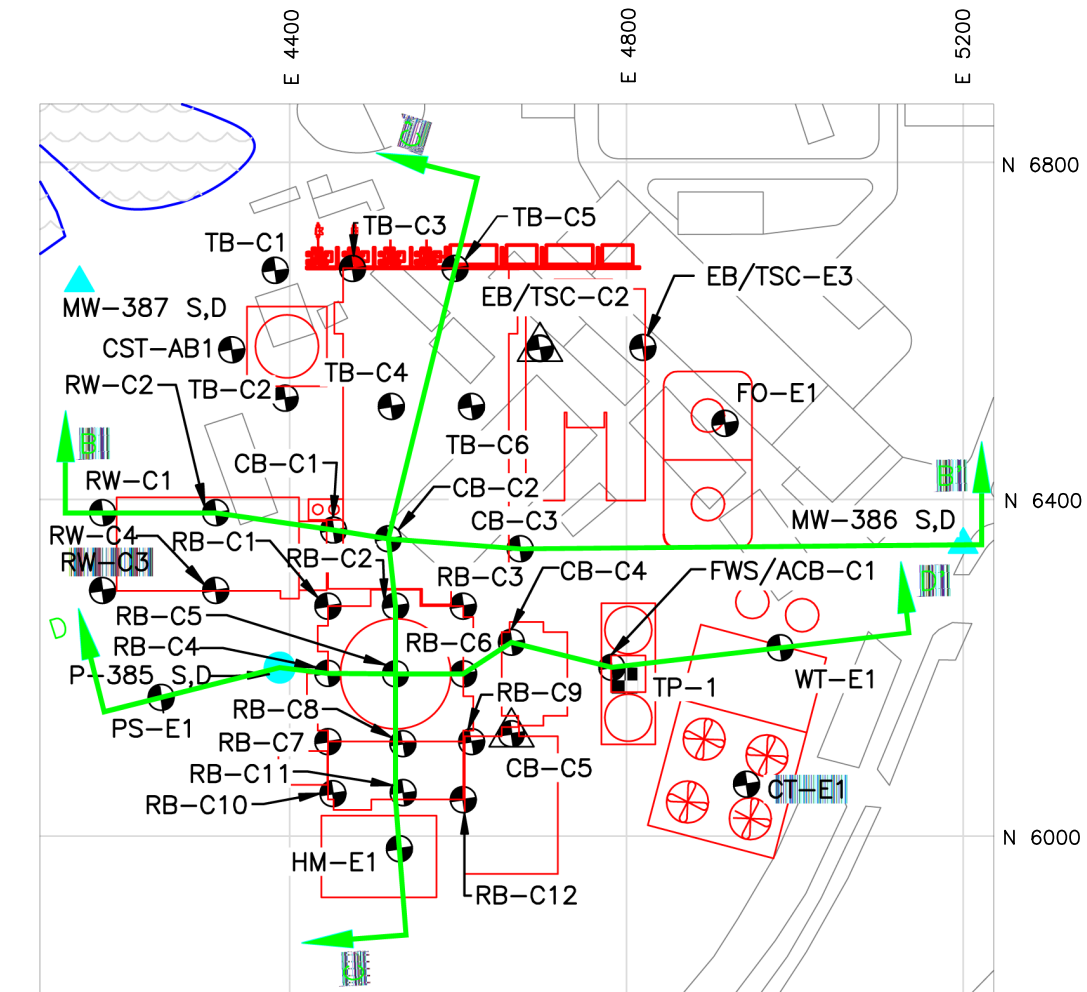
1. COORDINATES SHOWN ARE PLANT GRID
2. FIGURE NUMBER FOR CROSS SECTIONS:
A-A' - FIGURE 2.5.1-237



PLANT NORTH

400' 0 400' 800'

Figure 2.5.1-236 Enlargement of Site Exploration Plan



LEGEND

- FERM 3 GEOTECHNICAL BORING
- FERM 3 GEOTECHNICAL BORING WITH PIEZOMETER
- FERM 3 TEST PIT
- FERM 3 HYDROGEOLOGY BORING WITH MONITORING WELL
- FERM 3 HYDROGEOLOGY BORING WITH PIEZOMETER
- GEOLOGIC CROSS SECTION LOCATION
- FERM 3 FACILITIES

NOTES

1. COORDINATES SHOWN ARE PLANT GRID
2. FIGURES NUMBER FOR CROSS SECTIONS:
B-B' - FIGURE 2.5.1-238
C-C' - FIGURE 2.5.1-239
D-D' - FIGURE 2.5.1-240



Figure 2.5.1-237 Geologic Cross Section A-A'

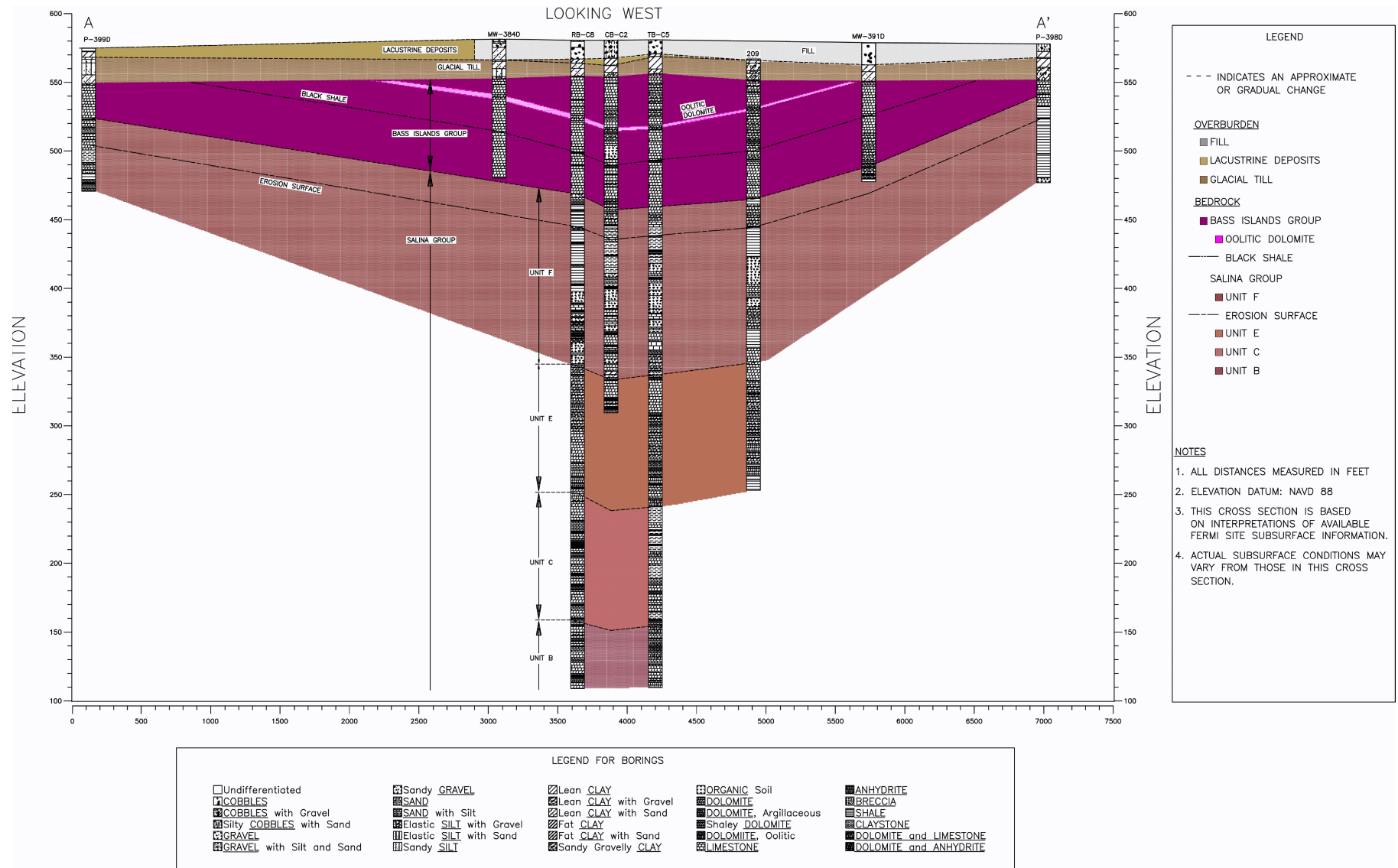


Figure 2.5.1-238 Geologic Cross Section B-B'

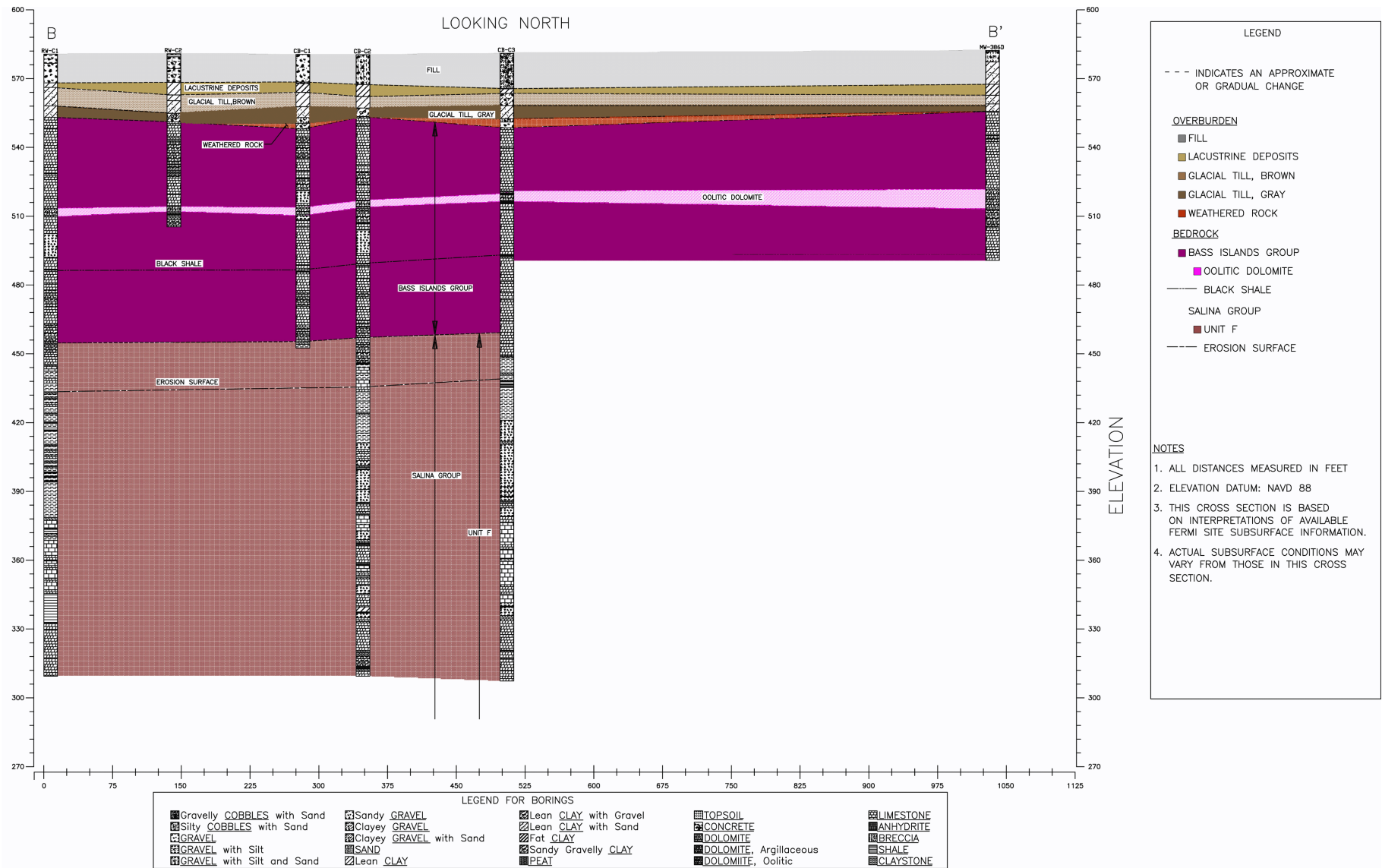


Figure 2.5.1-239 Geologic Cross Section C-C'

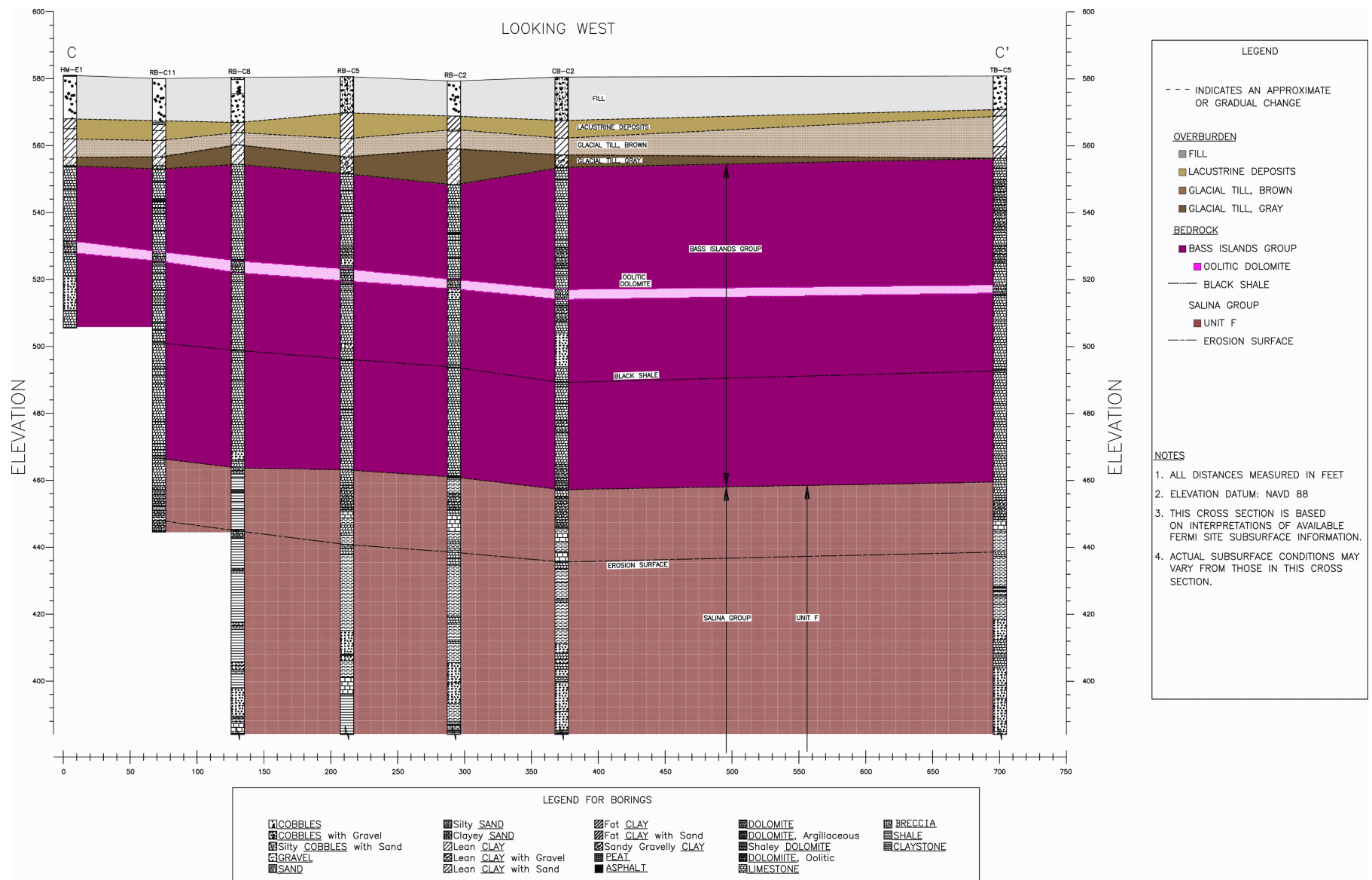


Figure 2.5.1-240 Geologic Cross Section D-D'

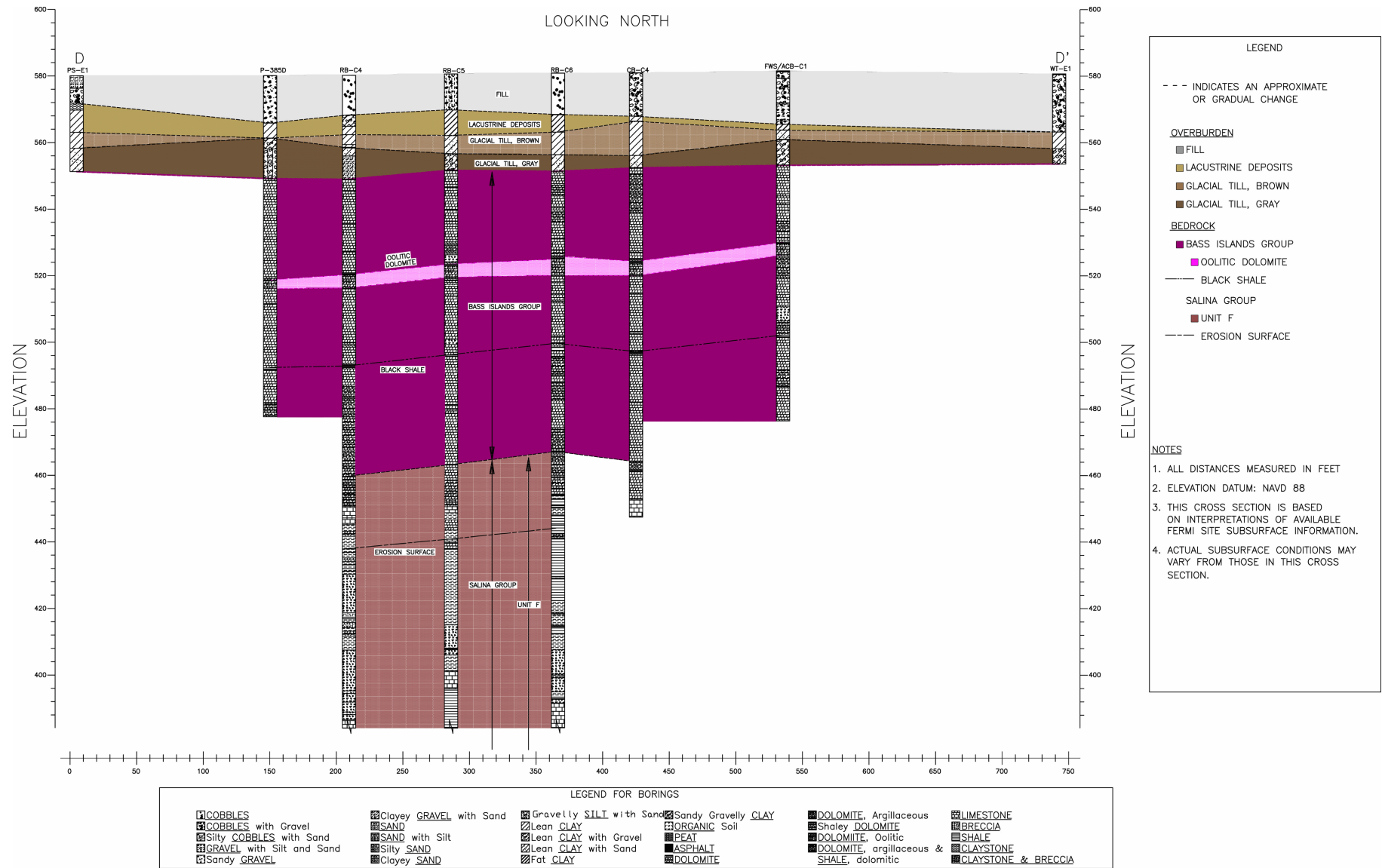


Figure 2.5.1-241 Geologic Map of the Fermi 3 Site Area

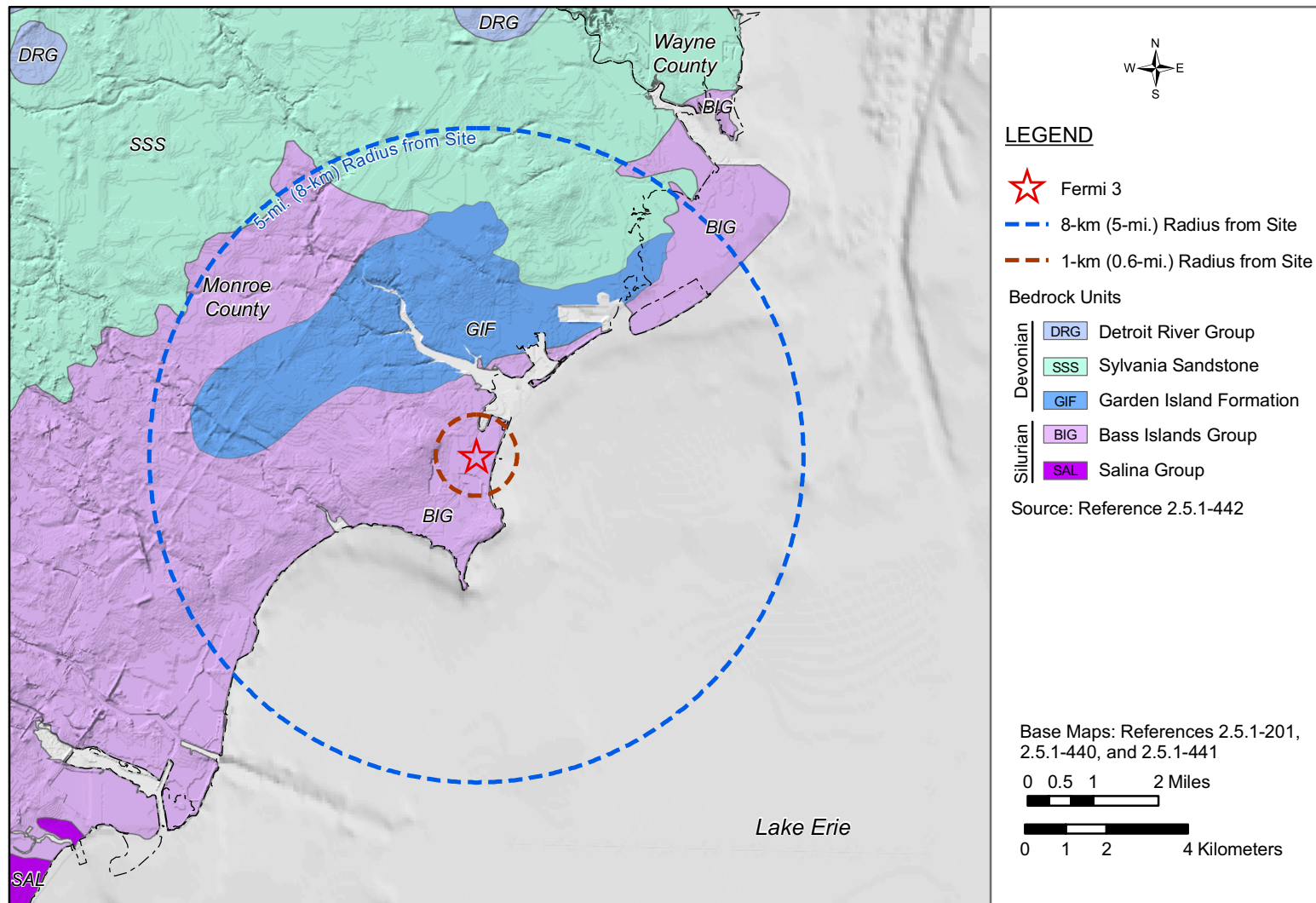


Figure 2.5.1-242 Natural Gamma Log of Fermi 3 Boring RB-C8

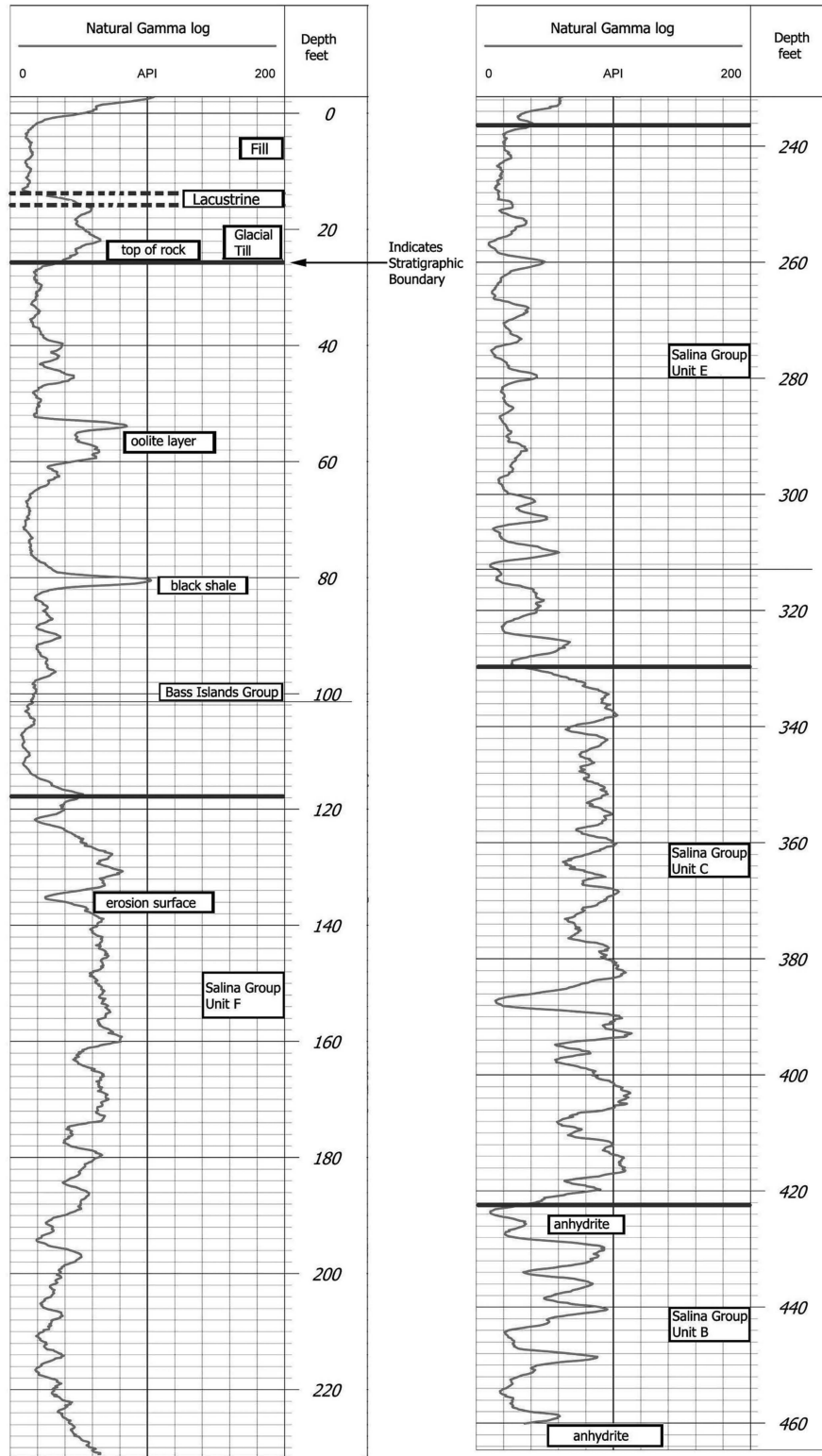
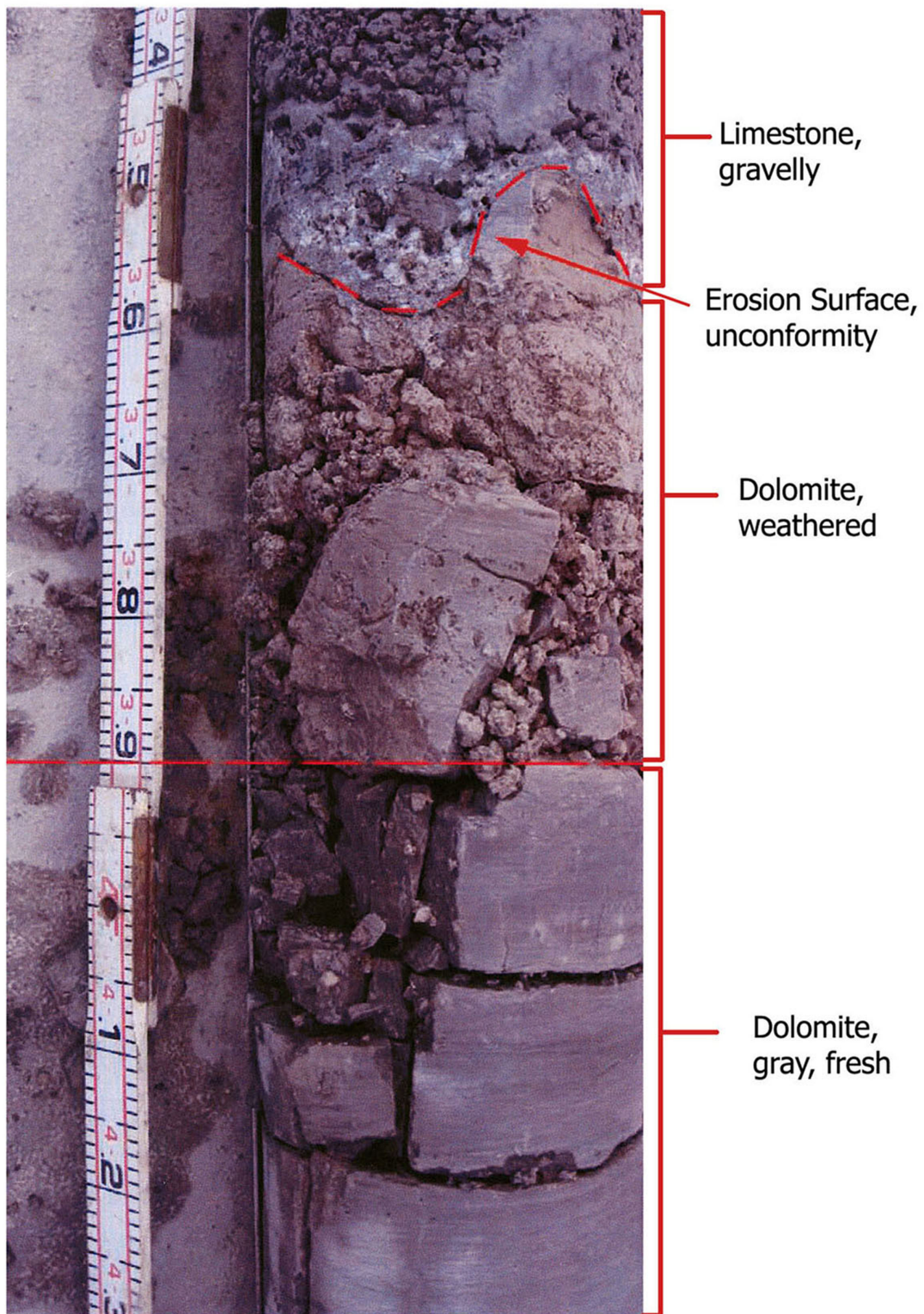


Figure 2.5.1-243 **Photograph of Erosion Surface in Salina Unit F, Fermi 3 Boring CB-C2**



Depth 144.3' - 145.25'

Figure 2.5.1-244 Quaternary Geologic Map of the Site Area

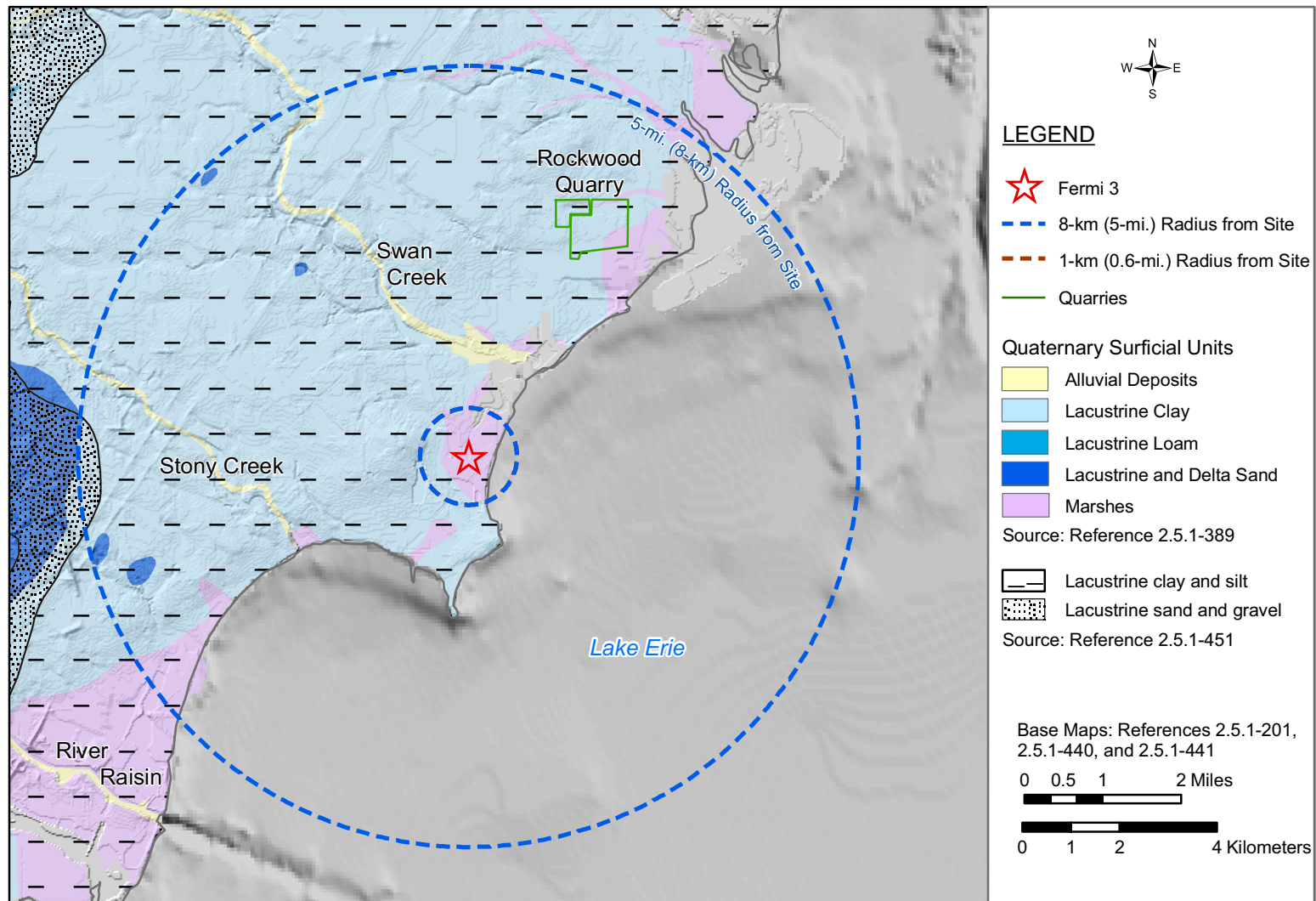


Figure 2.5.1-245 Map Showing Soils of the Fermi 3 Site Location



Figure 2.5.1-246 Tectonic Structures in the Fermi 3 Site Vicinity

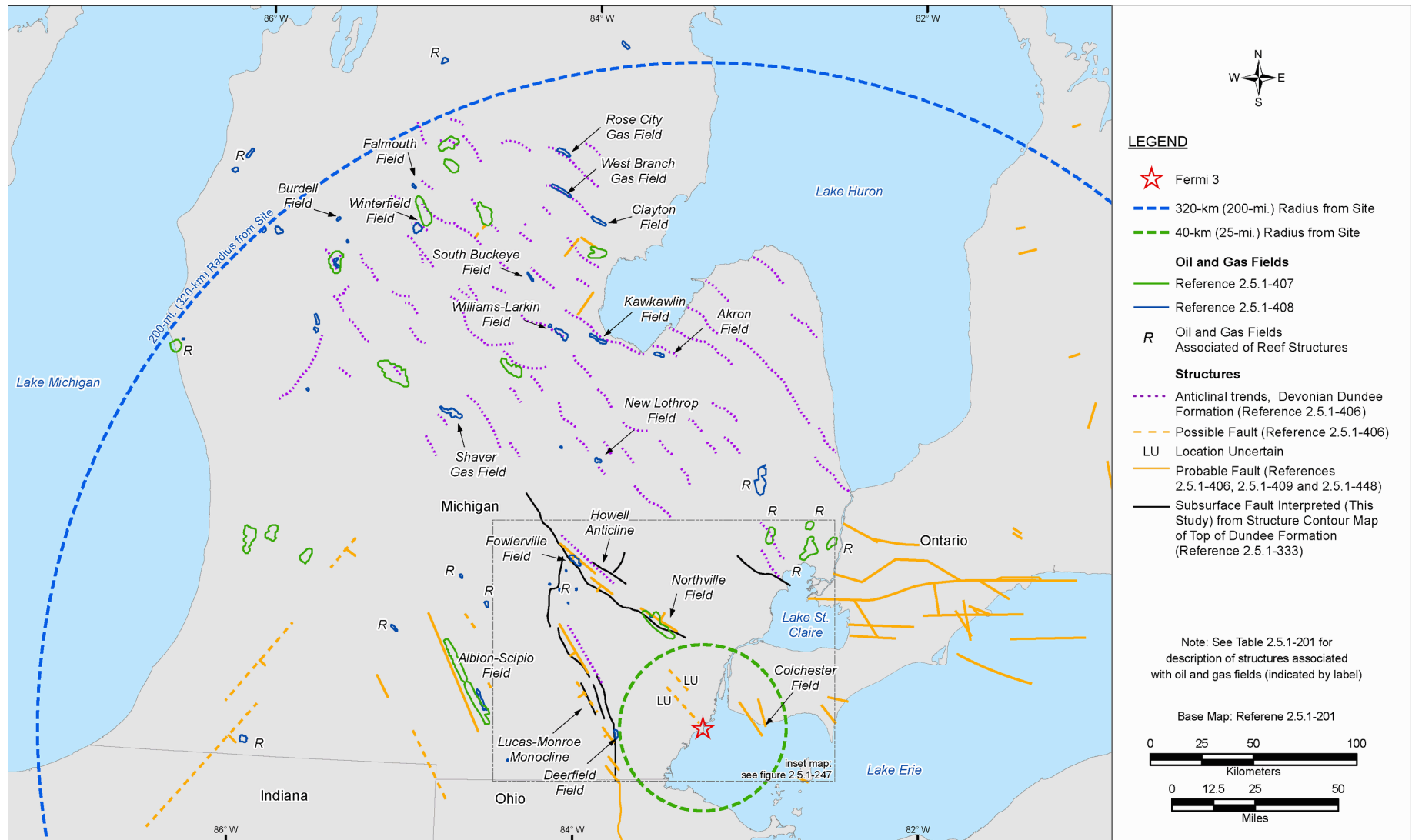


Figure 2.5.1-247 Structure Contour Maps from Monroe County, Michigan

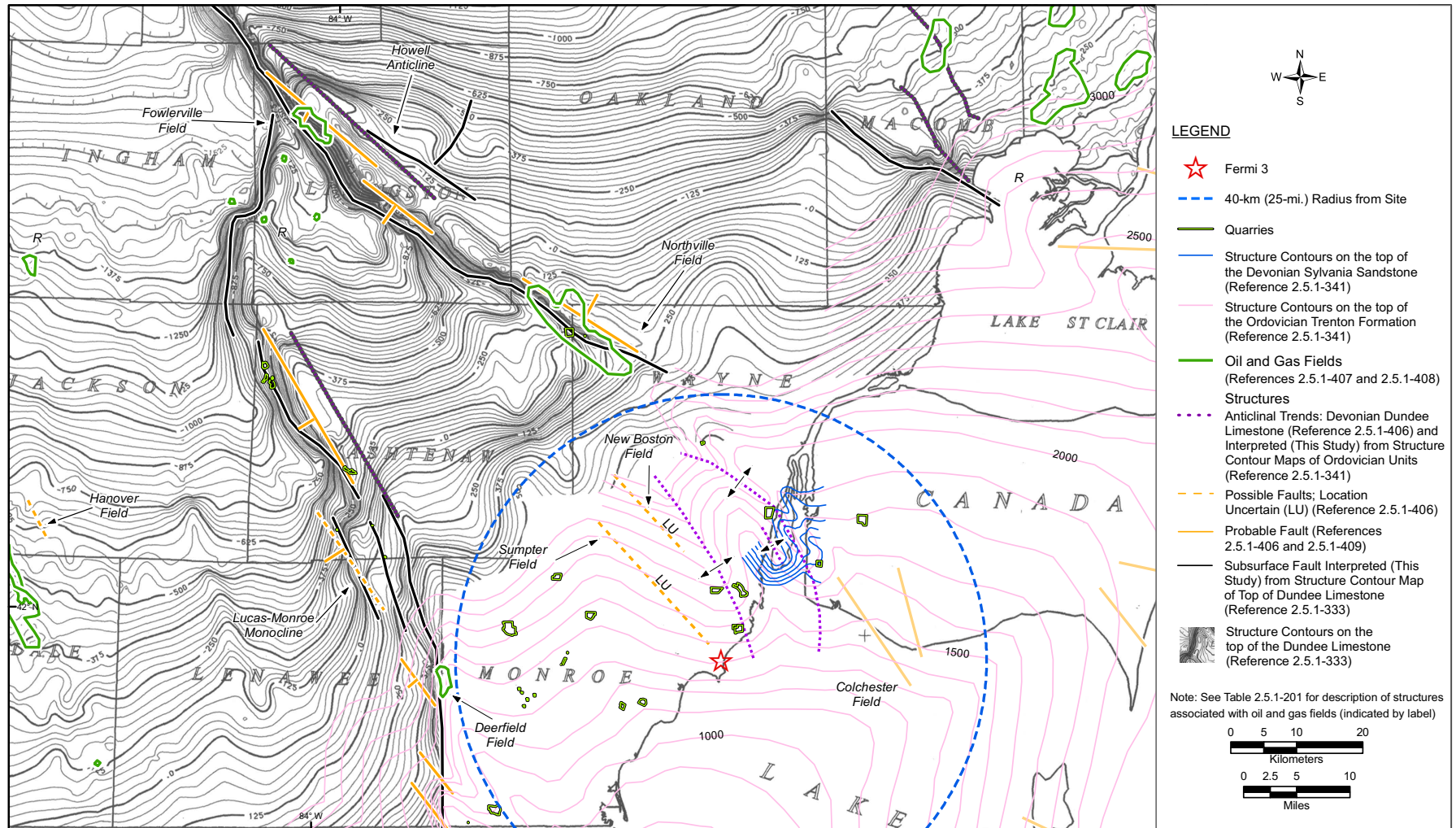
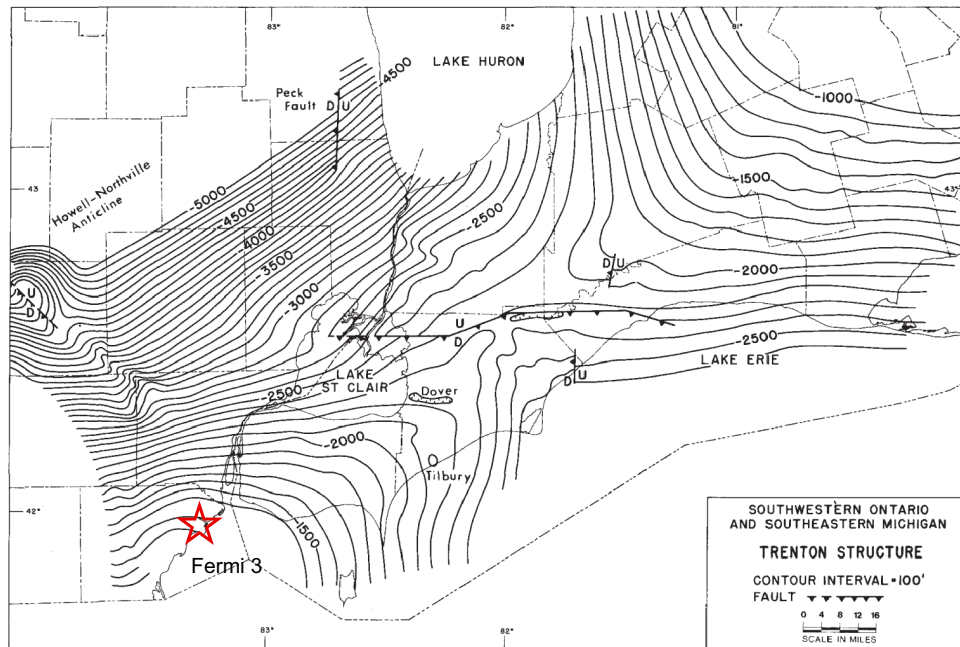
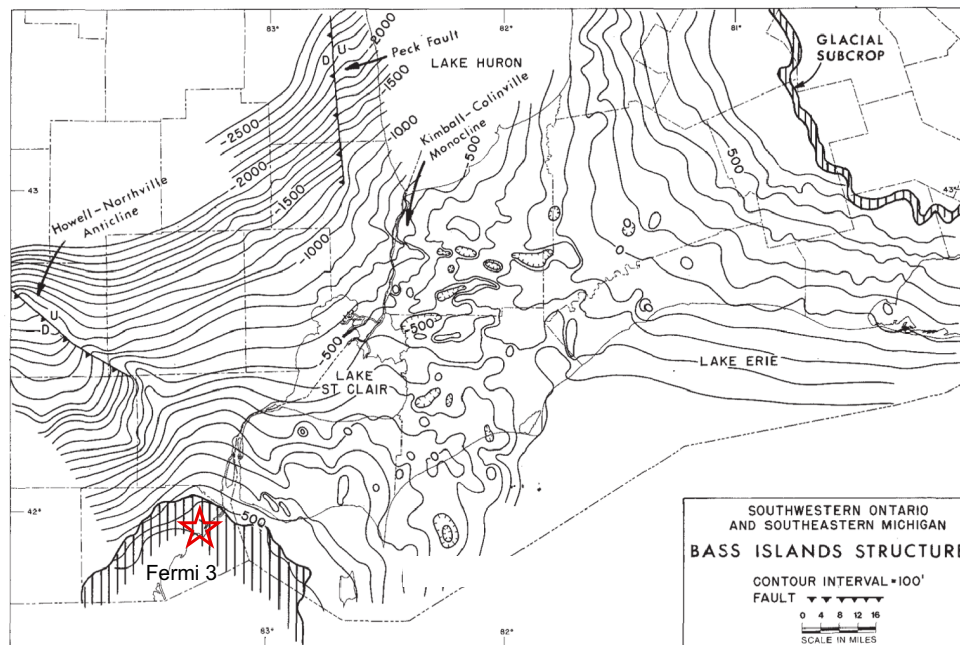


Figure 2.5.1-248 Structural Contour Maps on the Trenton Formation and Bass Islands Group

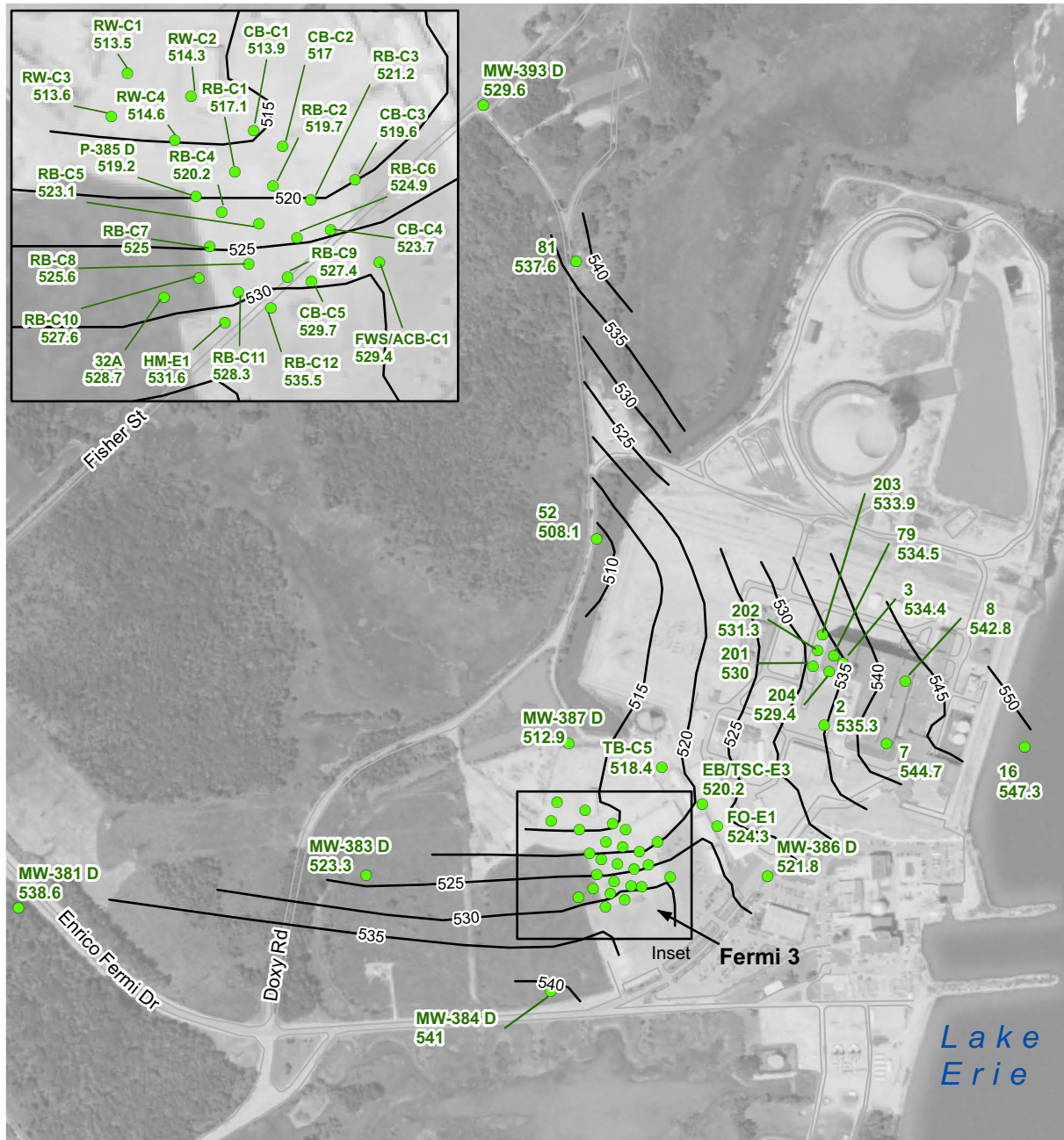


a. Structure contour on Ordovician Trenton Group



b. Structure contours on Silurian Bass Islands Formation

Figure 2.5.1-249 Structural Contour Map on the Top of the Bass Islands Group, Oolitic Dolomite Marker Horizon



- Borings
- Oolite Contours

