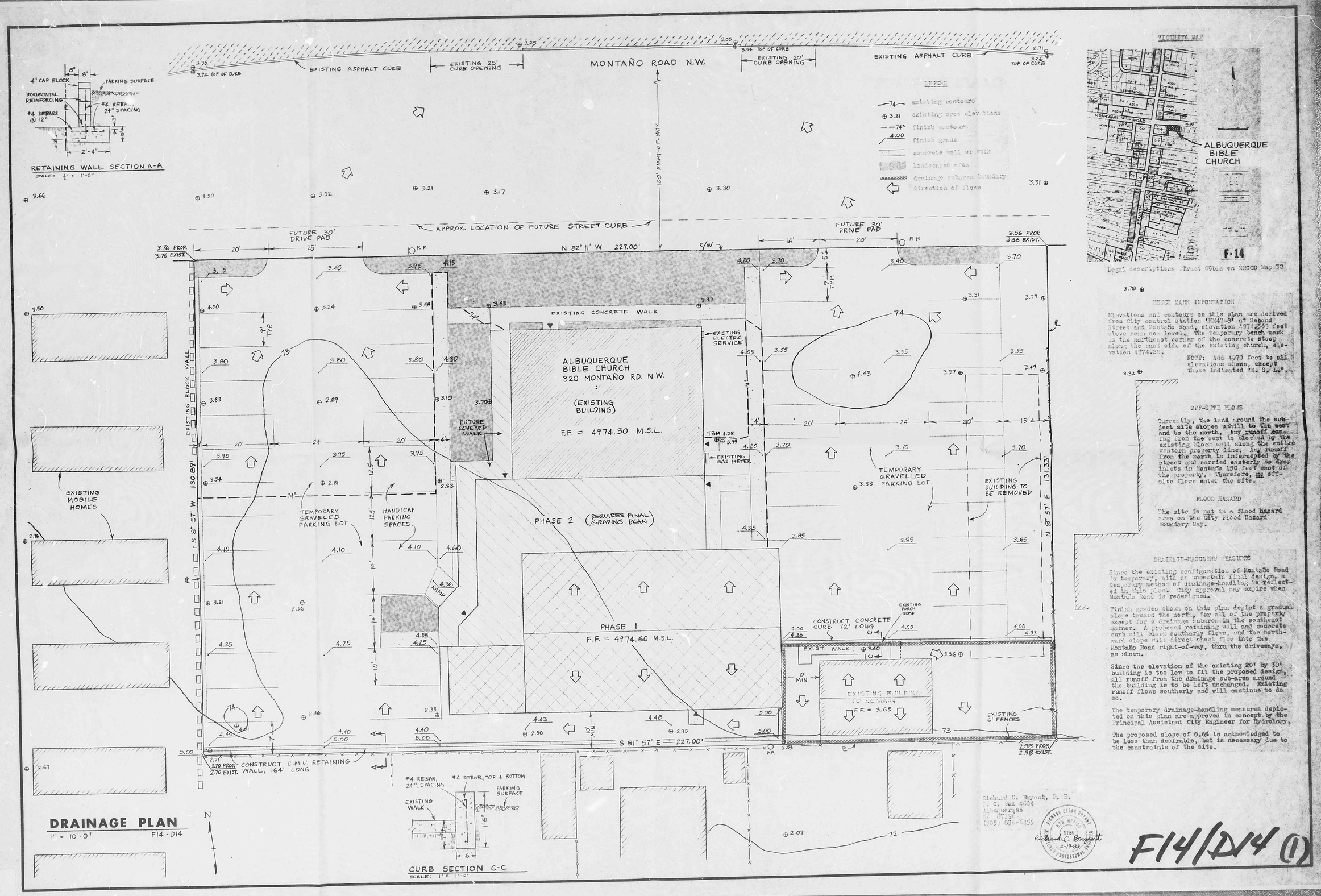
HYDROLOGY

F14/D14

ONE PLAN



Legal description: Tract 65bla on MRGCD Map 32

BENCH MARK INFORMATION

Elevations and contours on this plan are derived from City control station "NM47-8" at Second Street and Montaño Road, elevation 4974.563 feet above mean sea level. The temporary bench mark is the northeast corner of the concrete stoop along the east side of the existing church, elevation 4974.29.

NOTE: Add 4970 feet to all elevations shown, except those indicated "M. S. L."

OFF-SITE FLOWS

Currently, the land around the subject site slopes uphill to the west and to the north. Any runoff coming from the west is blocked by the existing block wall along the entire western property line. Any runoff from the north is intercepted by the street and carried easterly to drop inlets in Montaño 150 feet east of the property. Therefore, no off-site flows enter the site.

FLOOD HAZARD

The site is not in a flood hazard area on the City Flood Hazard Boundary Map.

DRAINAGE-HANDLING MEASURES

Since the existing configuration of Montaño Road is temporary, with an uncertain final design, a temporary method of drainage-handling is reflected in this plan. City approval may expire when Montaño Road is redesigned.

Finish grades shown on this plan depict a gradual slope toward the north, for all of the property except for a drainage subarea in the southeast corner. A proposed retaining wall and concrete curb will block southerly flows, and the northward slope will direct sheet flow into the Montaño Road right-of-way, thru the driveways, as shown.

Since the elevation of the existing 20' by 30' building is too low to fit the proposed design, all runoff from the drainage sub-area around the building is to be left unchanged. Existing runoff flows southerly and will continue to do so.

The temporary drainage-handling measures depicted on this plan are approved in concept by the Principal Assistant City Engineer for Hydrology.

The proposed slope of 0.6% is acknowledged to be less than desirable, but is necessary due to the constraints of the site.

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DRAINAGE PLAN

1" = 10'-0" F14 - D14

F14/D14 (1)