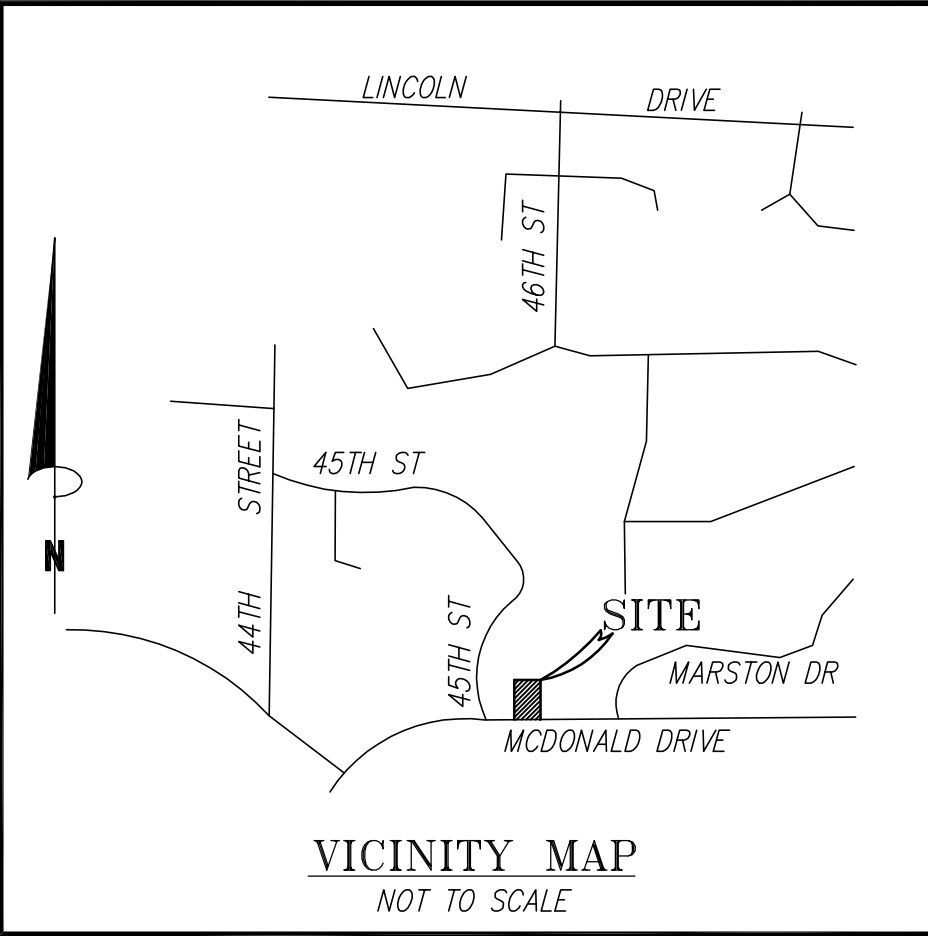


HILLSIDE SLOPE ANALYSIS PLAN
FOR
4554 E. McDONALD
PARADISE VALLEY, ARIZONA



g-m a r
consulting engineers, llc
18223 west orchid lane
waddell, arizona 85355
e: gmar@mareng.com ph: 602.524.7977

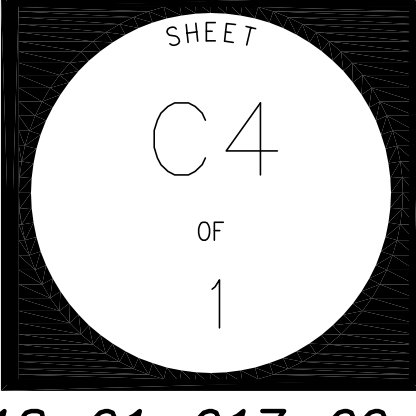


PROJECT: GARRISS RESIDENCE
4554 E. McDONALD ROAD, PARADISE VALLEY, ARIZONA
OWNER: TRAVIS & KIRA GARRISS
142 W. MACAW DRIVE, CHANDLER, ARIZONA 85286

PR	2-12-18	HILLSIDE SUBMITTAL

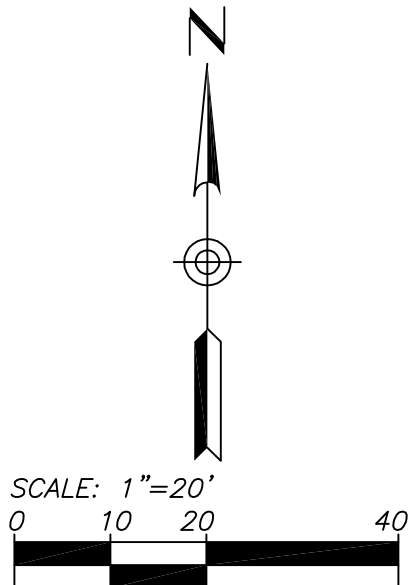
DATE ISSUED: 31 JAN 18
DRAWN BY: GM
CHECKED BY: GM

SHEET DESCRIPTION:
HILLSIDE
SLOPE ANALYSIS
PLAN

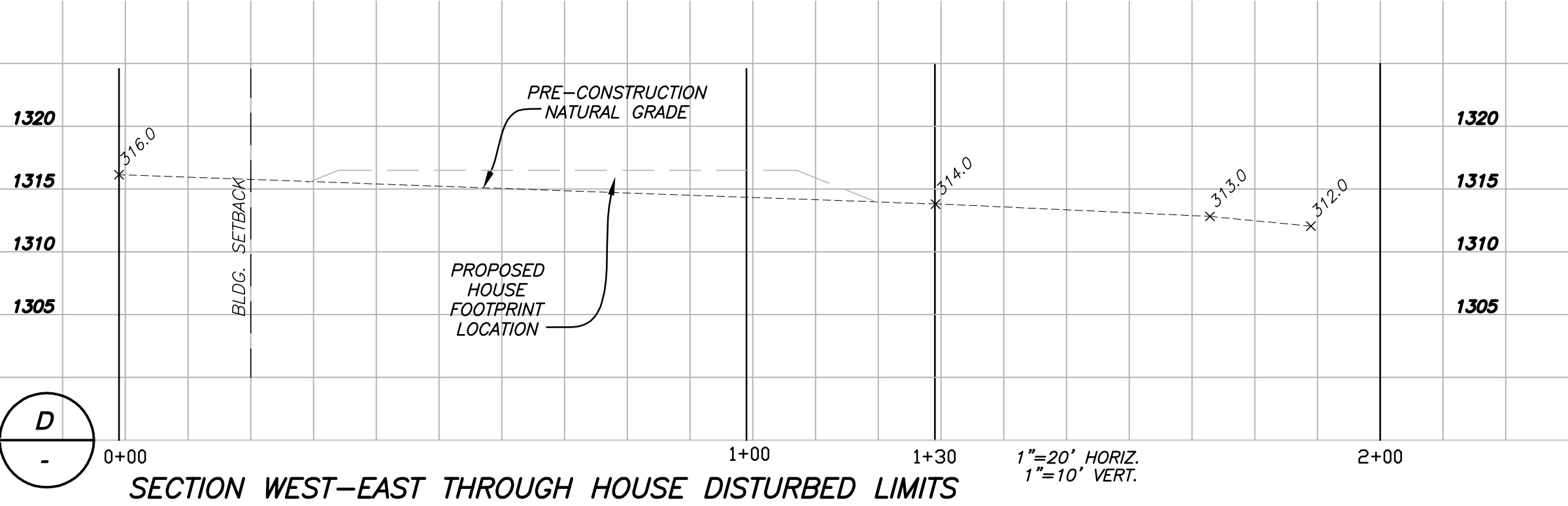
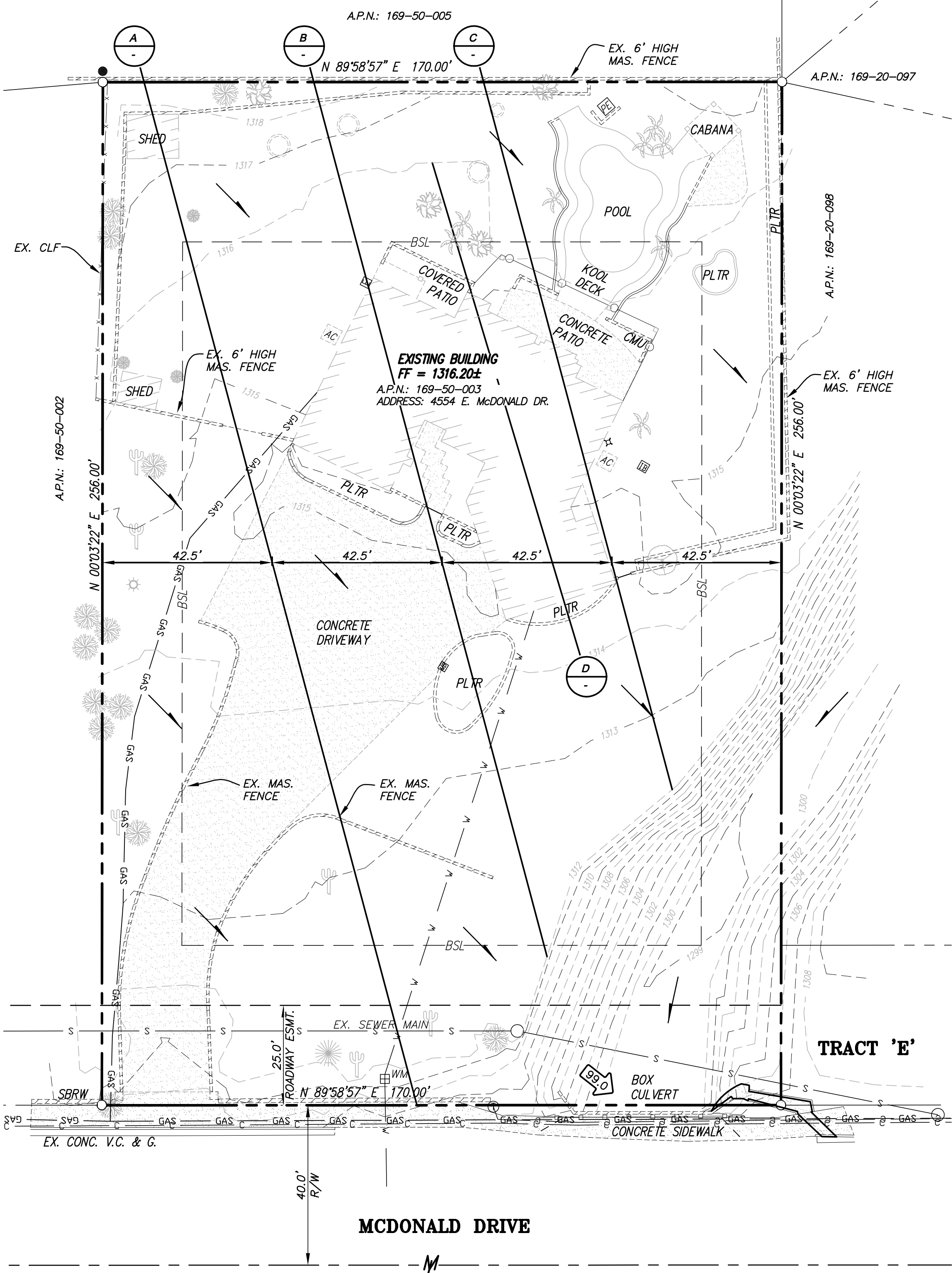


TOWN PERMIT NO.

JOB NO. 18-01-017-00



PRE-CONSTRUCTION NATURAL GRADE SLOPE CALCULATIONS
SLOPE FOR SECTION A = $(1318 - 1309) / 264.0 = 3.4\%$
SLOPE FOR SECTION B = $(1318 - 1312) / 226.0 = 2.65\%$
SLOPE FOR SECTION C = $(1317 - 1312) / 183.0 = 2.73\%$
AVERAGE SLOPE = $(3.4 + 2.65 + 2.73) / 3 = 2.93\% < 10\%$



PRE-CONSTRUCTION NATURAL GRADE SLOPE AT HOUSE
SLOPE FOR SECTION D = $(1316 - 1314) / 130 = 1.54\% < 10\%$
PROPOSED HOUSE FOOTPRINT TO MATCH EXISTING HOUSE ELEVATION.

