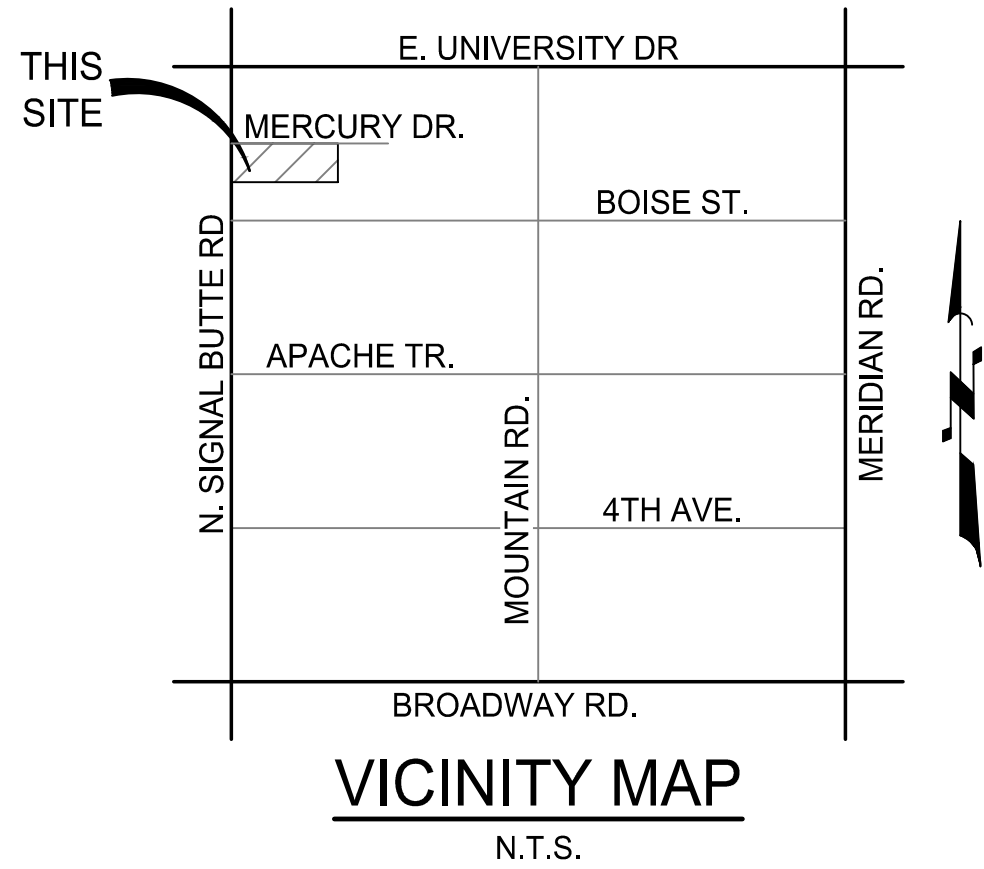
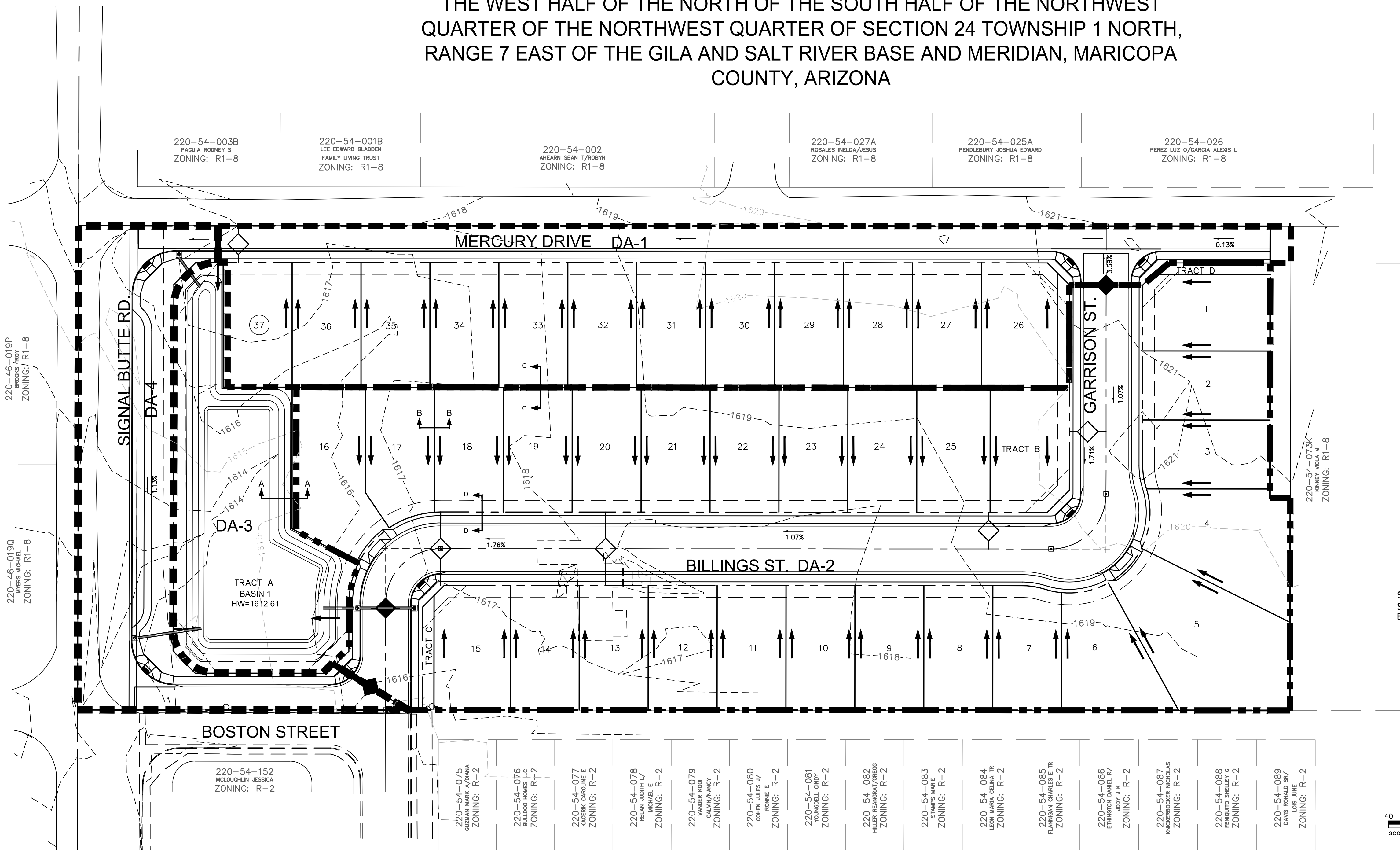


PRELIMINARY GRADING & DRAINAGE

FOR

MONTELUCIA

THE WEST HALF OF THE NORTH OF THE SOUTH HALF OF THE NORTHWEST
QUARTER OF THE NORTHWEST QUARTER OF SECTION 24 TOWNSHIP 1 NORTH,
RANGE 7 EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA
COUNTY, ARIZONA



OWNER / DEVELOPER

FUNK FAMILY
ENTERPRISES, LLC.
1806 N. LINDSAY
MESA, AZ. 85213
PH: (480) 468-8881
FAX: (480) 378-3100
CONTACT: MARK FUNK

ENGINEER

BABBITT NELSON
ENGINEERING.
1140 EAST GREENWAY ST.,
SUITE 2
MESA, ARIZONA 85203
TEL: (480) 610-1341
FAX: (480) 962-9034
CONTACT: DARREN SMITH

PROJECT DESCRIPTION

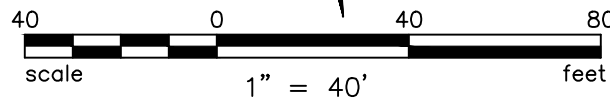
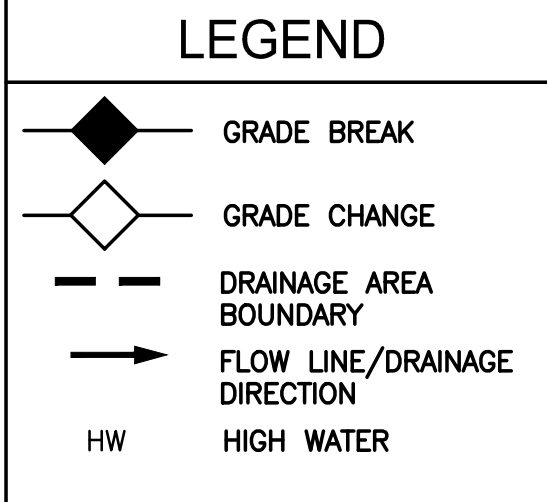
"MONTELUCCIA" IS A PLANNED RESIDENTIAL
DEVELOPMENT OF 37 LOTS.
PROPOSED ZONING FOR THE SITE IS RSL-2.5.

BASIS OF BEARING

THE WEST LINE OF THE NORTHWEST 1/4 OF
SECTION 24, TOWNSHIP 1 NORTH, RANGE 7
EAST, GILA & SALT RIVER MERIDIAN,
MARICOPA COUNTY, ARIZONA. SAID LINE
BEARS NORTH 00 DEGREES 07 MINUTES 10
SECONDS EAST.

BENCHMARK

SOUTHWEST PROPERTY CORNER
SET 1/2" REBAR W/CAP '23949'
ELEVATION = 1614.23 NAVD88 DATUM



Retention Volume Required

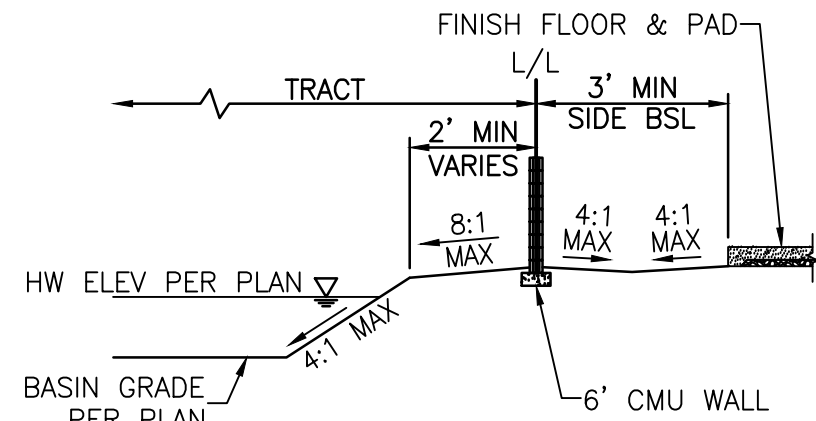
Design storm:	100-yr, 2-hr
Rainfall, D:	2.70 inches
$V_{required} = C \times \frac{D}{12} \times A$	
Where:	V = Retention Volume Required
	C = Runoff Coefficient
	D = Depth of Rainfall
	A = Area of Watershed Contributing

Retention Volume Provided

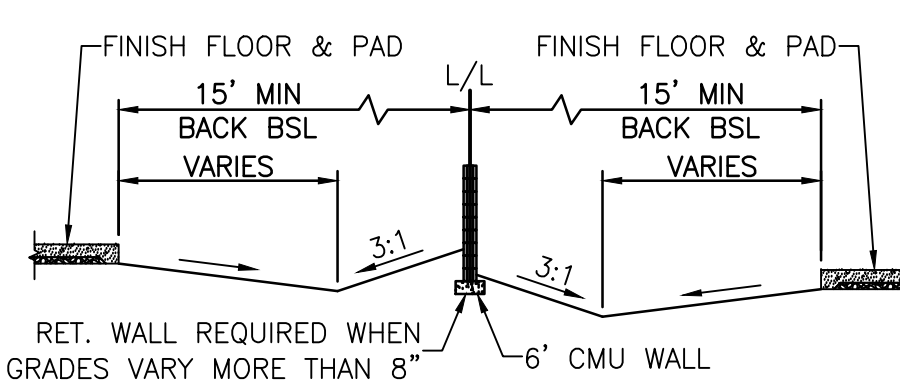
Description: Calculation of Proposed Retention Volume Provided
Date: 06/06/18
Location: City of Mesa
Reference: Drainage Design Manual for Maricopa County, Vol. I, Hydrology Engineering & Design Standards, 2017

On-Site Retention

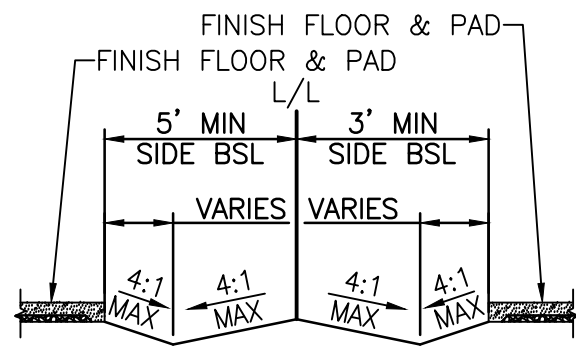
Basin IDs	Contributing Sub-basins	Bottom Contour Area (sq.ft.)	Top Contour Area (sq.ft.)	Bottom Elevation (ft)	Top Elevation (ft)	Volume Provided (cubic-feet)	Volume Required (cubic-feet)
1	A	8,548	9,452	0.0	0.5	4500.00	
		9,452	11,931	0.5	1.5	10691.50	
		11,931	14,536	1.5	2.5	13233.50	
		14,536	17,269	2.5	3.5	15902.50	
Total						44327.50	42776.57



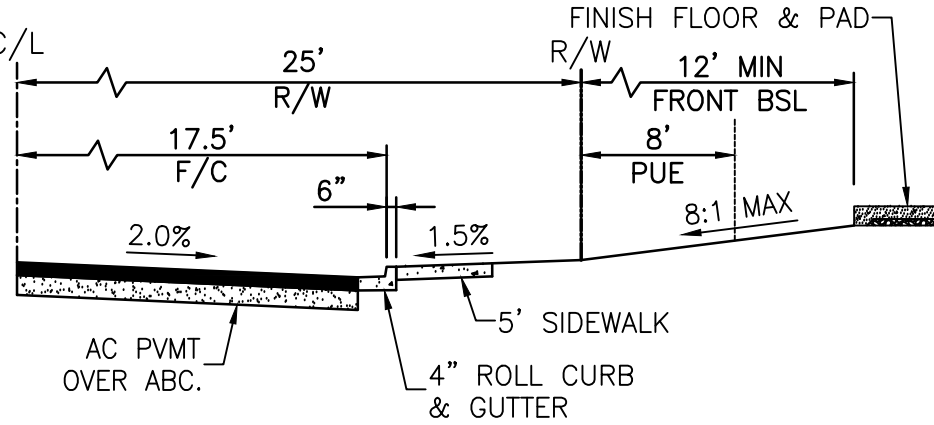
SECTION A-A



SECTION C-C

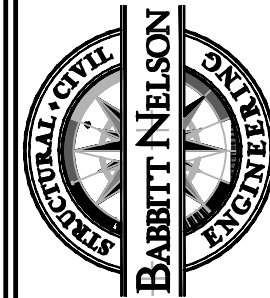


SECTION B-B



SECTION D-D

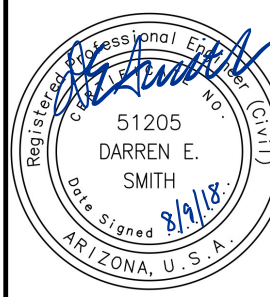
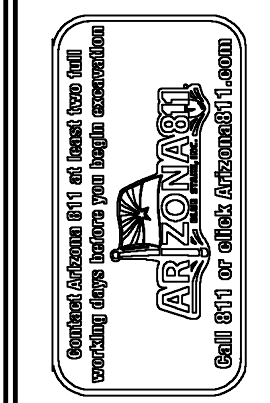
Babbitt Nelson Engineering
1140 E. Greenway St, Suite 2
Mesa, Arizona 85203
tel: (480) 610-1341
fax: (480) 962-9034
cel: (480) 497-0003



PRELIMINARY GRADING & DRAINAGE

PROJECT:

MONTELUCCIA
MESA, ARIZONA



JOB NO.
18017

8017GDP01.DWG

SHEET NO.

1

1 of 1