

RETENTION CALCULATION

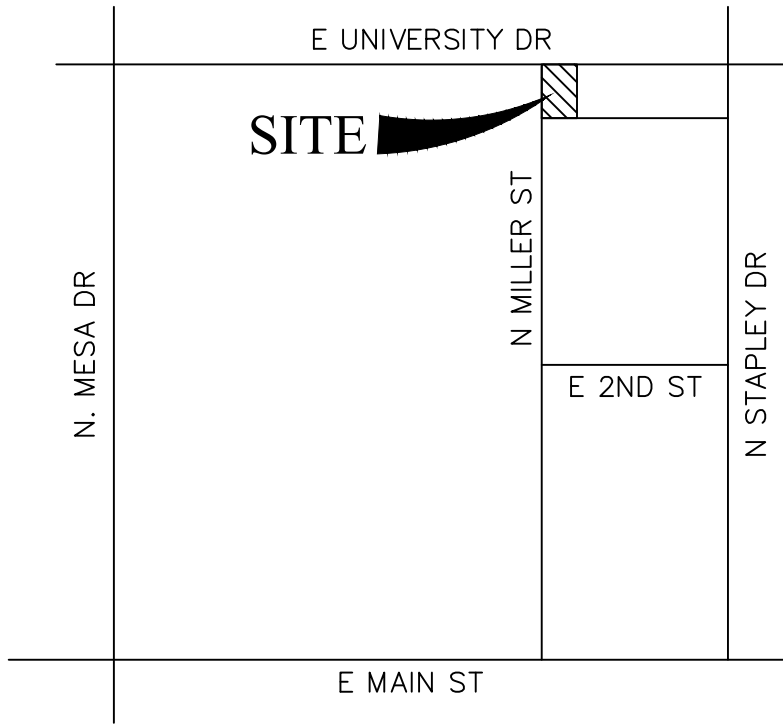
VOLUME REQUIRED
TOTAL CONTRIBUTING AREA A= 136452 SF
RUNOFF COEFFICIENT C = 0.90
100 YR, 2 HR PRECIPITATION P = 0.18 FT
TOTAL VOLUME REQUIRED = C X P X A
0.90 X 0.18 X 136452 = 22,105 CF

VOLUME PROVIDED
BASIN 1:
VOLUME PROVIDED = 1,662 CF
10" DIA UNDERGROUND STORAGE
TOTAL LENGTH PROVIDED = 265 LF
VOLUME PROVIDED = 265 X 78.5 CF/LF = 20,802 CF
TOTAL VOLUME = 1,662 + 20,802 = 22,465 CF

STALWART HOUSING

SEC OF E. UNIVERSITY DR AND MILLER ST
MESA, ARIZONA 85208

PRELIMINARY GRADING & DRAINAGE PLAN



VICINITY MAP
T 1N, R 1E, S 23
(N.T.S.)

OWNER

STALWART ACQUISITION LLC
1025 E UNIVERSITY DR
MESA, AZ 85203

ENGINEER

R.B. WILLIAMS & ASSOCIATES, INC.
40 W. BASELINE RD., STE 110
TEMPE, AZ 85283
CONTACT: JEFFREY L. WILLIAMS, P.E.
PHONE: (480) 424-2352
FAX: (480) 424-2353
EMAIL: JEFF@RBWILLIAMS.COM

FLOOD PLAIN

FLOOD ZONE X PER FEMA FIRM PANEL
40048, MAP NO. 04013C 2270M
REVISED 11/15/2015.

SITE INFORMATION

GROSS SITE AREA: 3.11 AC
NET SITE AREA: 2.46 AC

ZONING:

EXISTING : RM-4/ RM-2
PROPOSED : RM-4/ RM-2

BUILDING SETBACKS:
FRONT, SIDE: 20'
REAR, INTERIOR: 45'

PROJECT DESCRIPTION

A NEW HOUSING PROJECT ON 2.46
ACRES LAND WITH ASSOCIATED
PARKING, RETENTION, AND
LANDSCAPING.

APN

138-20-14F, 138-20-015D,
138-28-017G, 138-28-14E,
138-20-015C, 138-20-14C,
138-20-001,138-20-019

R.B. WILLIAMS & ASSOCIATES, INC.

CONSULTING ENGINEERS

1921 S. ALMA SCHOOL ROAD, SUITE 101
MESA, ARIZONA 85210
PHONE: (480) 424-2352
FAX: (480) 424-2353



PROJECT NAME

STALWART
HOUSING

SEC E UNIVERSITY DR AND MILLER ST
MEAS, AZ 85203

PRELIMINARY GRADING &
DRAINAGE PLAN

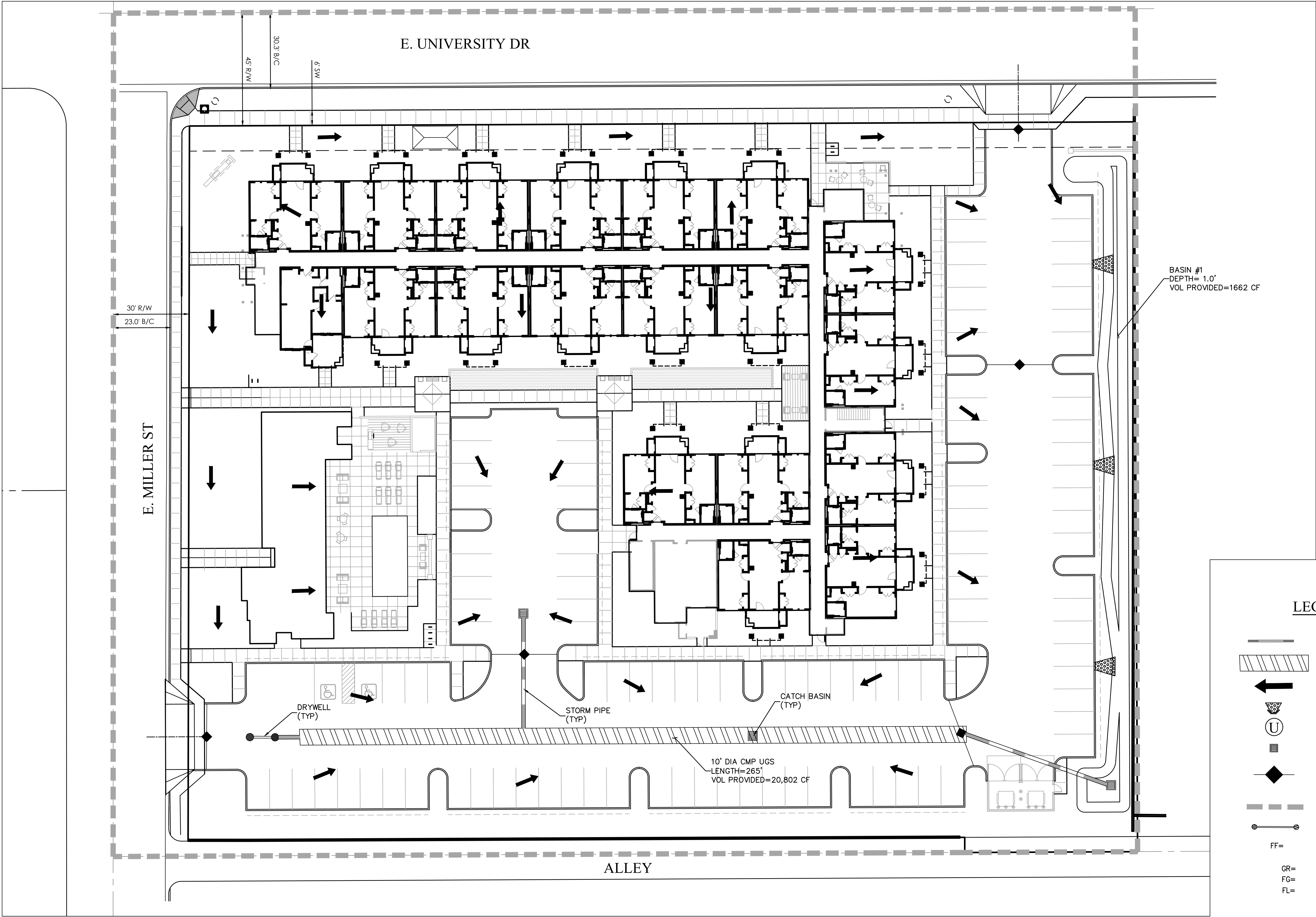
REVISIONS:

DATE	01-26-21
DESIGN	BBJ
DRAWN	BBJ
CHK'D	JLW
SUB.	

20060PG01.DWG

PG01

SHEET NO.
1/1



LEGENDS

- STORM DRAIN
- UNDERGROUND STORAGE
- FLOW DIRECTION
- STORM DRAIN MANHOLE
- HEADWALL W/ RIPRAP
- SUB-AREA ID
- CATCH BASIN
- GRADE BREAK
- DRAINAGE BOUNDARY
- DRYWELL
- FF= FINISH FLOOR
- GR= GRATE
- FG= FINISH GRADE
- FL= FLOW LINE

