RETENTION REQUIRED

VOLUME REQUIRED = C*(D/12)*A
C = 0.50 FOR LANDSCAPING, 0.95 FOR BUILDING/PAVEMENT
D = 2.20" PER COM DESIGN CRITERIA (100-YEAR, 2-HOUR EVENT)
A = AREA IN ACRES

RETENTION PROVIDED

VOLUME PROVIDED = $(A_{TOP}+A_{BTM})/2*D$
A_{TOP} = AREA BASIN TOP (SQ-FT)
A_{BTM} = AREA BASIN BOTTOM (SQ-FT)
D = BASIN DEPTH (FT)

LEGEND

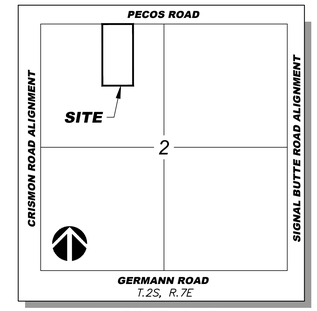
- PROPERTY LINE
- EASEMENT LINE
- FLOW LINE
- 74 — PROPOSED CONTOUR
- 74 — EXISTING CONTOUR
- PROPOSED FLOW ARROW
- 7.10 P — PROPOSED PAVEMENT SPOT ELEVATION
- AVG: 06.84 — EXISTING GRADE ELEVATION
- PROPOSED DUAL CHAMBER DRYWELL

PRELIMINARY GRADING NOTES

1. HDPE STORM DRAIN PIPE.
2. DRAINAGE CURB OPENING.
3. FLUSH CURB.
4. STORM DRAIN INLET.

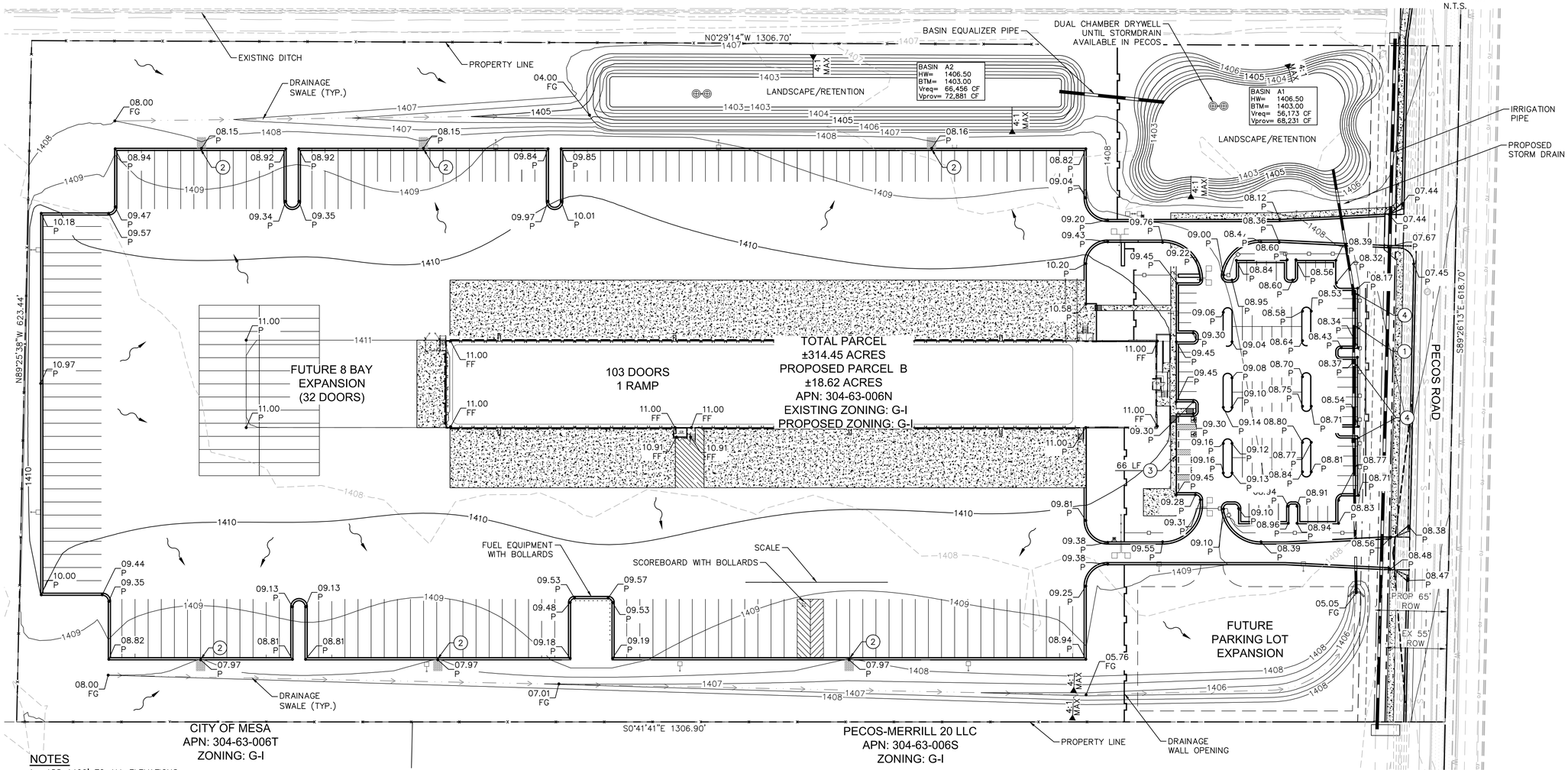
FLOOD ZONE

ACCORDING TO THE FLOOD INSURANCE RATE MAP #04013C2790 L, DATED OCTOBER 16, 2013, THIS PROPERTY IS LOCATED IN FLOOD ZONE "X". AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD.



VICINITY MAP

CITY OF MESA
N.T.S.



NOTES

1. ADD 1400' TO ALL ELEVATIONS.
2. ADD 0.5' TO PAVEMENT (P) ELEVATIONS FOR TOP OF CURB ELEVATIONS FOR VERTICAL CURBS.
3. ALL SPOT ELEVATIONS ARE FINISHED GRADE PAVEMENT (P), GUTTER/GRATE (G), TOP OF CURB (TC), OR SIDEWALK (SW) ELEVATIONS UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL USE SPOT ELEVATIONS, PROPOSED CONTOURS, AND SLOPES TO ESTABLISH GRADES.
5. SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% AND LONGITUDINAL SLOPE SHALL NOT EXCEED 5%.
6. REFER TO LANDSCAPE PLANS FOR SLOPE TREATMENT.
7. ALL FILL SLOPES SHALL BE COMPACTED TO 95% RELATIVE DENSITY.
8. REFER TO BUILDING ARCHITECTURE AND STRUCTURAL PLANS FOR EXACT BUILDING FOUNDATION THICKNESS CHANGES.

NORTH

GRAPHIC SCALE IN FEET
0 25 50 100

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

REV	DESCRIPTION	BY	DATE	APPR

K:\EAV_Civil\291303001 - OD Pecos\CADD\Preliminary\291303001GD.dwg, Layout:GRADING AND DRAINAGE PLAN Mar 26, 2019 - 8:46am zach.hill
XREFS: x291303001b, x291202001bm, x291303001xs, x291303001tp
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ODFL MESA
GRADING AND DRAINAGE PLAN
SEC PECOS RD & CRIMSON RD
MESA, ARIZONA

PROJECT No. 291303001
SCALE (H): 1"=50'
SCALE (V): NONE
DRAWN BY: PR
DESIGN BY: ZH
CHECK BY: JB
DATE: 03/25/19

PRELIMINARY
FOR REVIEW ONLY
NOT FOR CONSTRUCTION
Kimley»Horn
ENGINEER J. BURM
PE NO. 52081 DATE 03/19

291303001GD.dwg

C02