

Preliminary Grading & Drainage Plans for Silver Valley at Cadence Gateway Mesa, Arizona

THE EAST LINE OF THE NORTHEAST QUARTER OF SECTION 34, TOWNSHIP 1 SOUTH,
RANGE 7 EAST OF THE GILA AND SALT RIVER MERIDIAN.
MARICOPA COUNTY, ARIZONA

100-YR RUNOFF & RETENTION CALCULATIONS:

VOLUME REQUIRED NORTH:
 $V_{REQ} = C \cdot D \cdot A / 12$
WHERE:
C = RUNOFF VOLUME (SF)
D = WEIGHTED RUNOFF COEFFICIENT = 0.90
A = 100-YR, 2-HR RAINFALL DEPTH (IN) = 2.21-IN
A = AREA OF PROJECT SITE IN ACRES (18.21 AC)

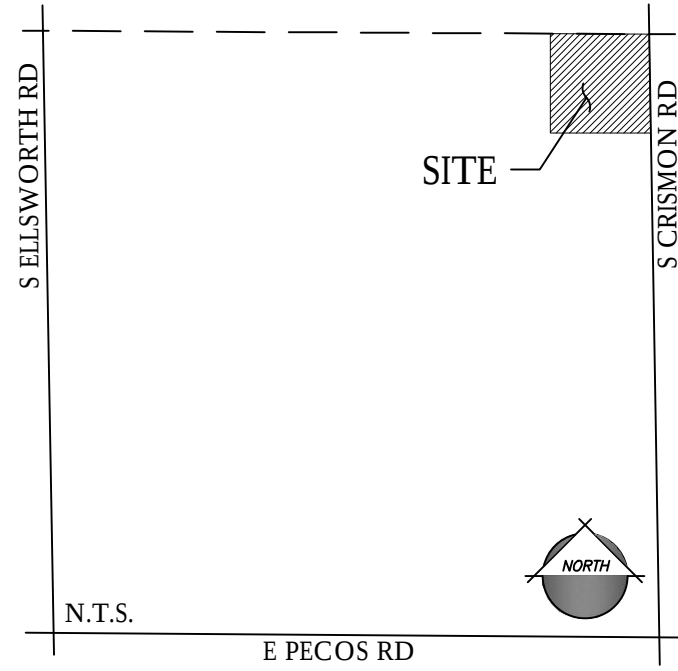
$V_R = 131,499$ CF

UNDERGROUND RETENTION: 1,050 LF OF 10' CMP = 82,467 CF

SURFACE RETENTION: 50,000 CF

$V_P = 132,467$ CF

VICINITY MAP



CIVIL ENGINEER:

EPS GROUP, INC.
1130 N. ALMA SCHOOL ROAD, STE. 120
MESA, ARIZONA 85201
PHONE: (480) 503-2250
CONTACT: DANIEL AUXIER, P.E.
EMAIL: dan.auxier@epsgruoinc.com

ARCHITECT:

THE WOLFF COMPANY
6710 E. CAMELBACK RD
SCOTTSDALE, AZ 85251
PHONE: (480) 480-315-9595
CEL: (480) 435-7988
CONTACT: Derek Cayton
EMAIL: dcayton@awolff.com

BASIS OF BEARING

THE NORTH LINE OF THE NORTHEAST 1/4 OF SECTION 34, TOWNSHIP 1 SOUTH, RANGE 7 EAST, G&SRM, AS SHOWN ON FINAL PLAT "CADENCE AT GATEWAY PHASE 3", BOOK 1466, PAGE 42, MARICOPA COUNTY RECORDS. THE BEARING OF WHICH IS:

SOUTH 89 DEGREES 29 MINUTES 18 SECONDS WEST

BENCHMARK

BRASS TAG IN THE TOP OF CURB ON THE NORTHWEST CORNER OF THE INTERSECTION OF MERIDIAN AND WARNER ROADS.
ELEVATION = 1481.15 (CITY OF MESA DATUM / NAVD-88)
ELEVATION OBTAINED FROM "2012 CITY OF MESA BENCHMARKS" LIST IN APRIL 2012

FLOOD ZONE INFORMATION

THIS SITE IS LOCATED WITHIN "ZONE X SHADED" AS SHOWN ON FLOOD INSURANCE RATE MAP NUMBER 04013C2790L.
0.2% ANNUAL CHANCE FLOOD HAZARD, AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTH LESS THAN ONE FOOT OR WITH DRAINAGE AREAS OF LESS THAN ONE SQUARE MILE.

NOTE:
RIP RAP TO BE D50=6" 12" THICK OVER FILTER FABRIC
NOTE:
SIDEWALK TO BE PER MAG 230.

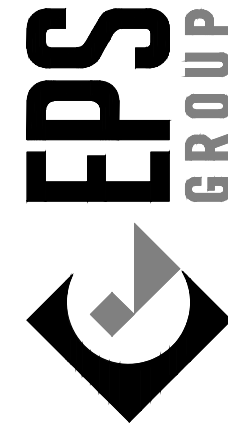
LEGEND

- SEWER LINE
- SEWER MANHOLE
- WATER LINE
- FIRE HYDRANT
- WATER VALVE
- FF= FINISHED FLOOR
- SLOPE DIRECTION
- STORM DRAIN PIPE
- TRENCH DRAIN PIPE
- CATCH BASIN
- DRYWELL
- GUTTER

40 0 40 80
scale feet

MATCH TO SHEET 2

1130 N Alma School Road
Suite 120
Mesa, AZ 85201
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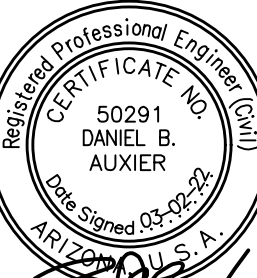
Silver Valley at Cadence Gateway

Preliminary Grading & Drainage Plans

Revisions:

Call at least 48 hours in advance to schedule site visit.
ARIZONA 80
Professional Engineer
Daniel B. Auxier
No. 50291
Exp. 03/31/2025
Maricopa County (802063-1100)

Designer: EPS
Drawn by: EPS

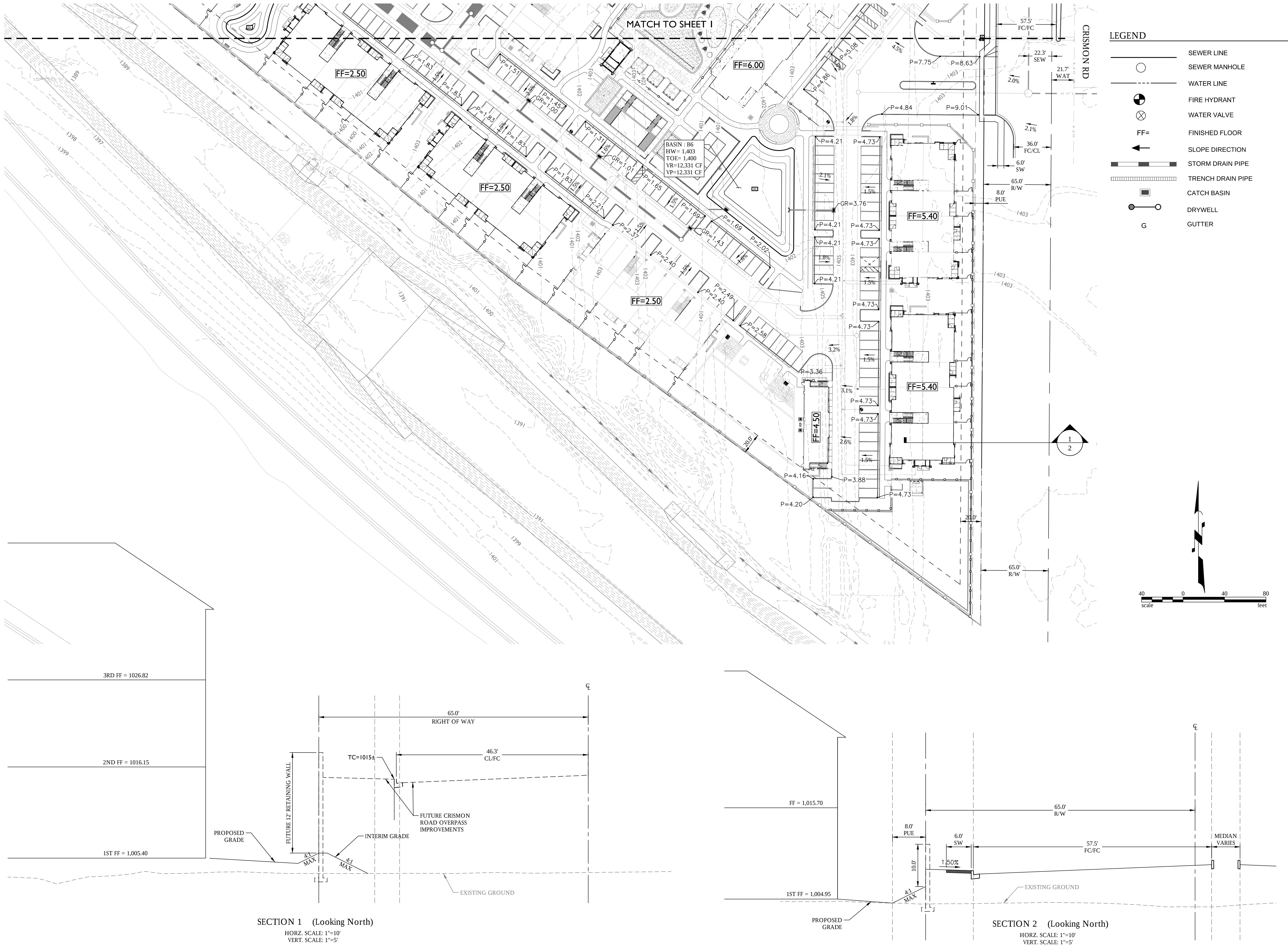


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PG01
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of 2

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jesquivel



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EPS
GROUP

Project: Silver Valley at Cadence Gateway
Mesa, Arizona

Revisions:

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Call at least two full working days
before your begin excavation.
ARIZONA
State of Arizona
Professional Engineer
In Maricopa County: 80263-1100

Designer: EPS
Drawn by: EPS

Registered Professional Engineer (PE)
CERTIFICATE NO.
50291
DANIEL B.
AUXIER
Date signed: 03/02/20

Job No.
20-0874

PG02

Sheet No.
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