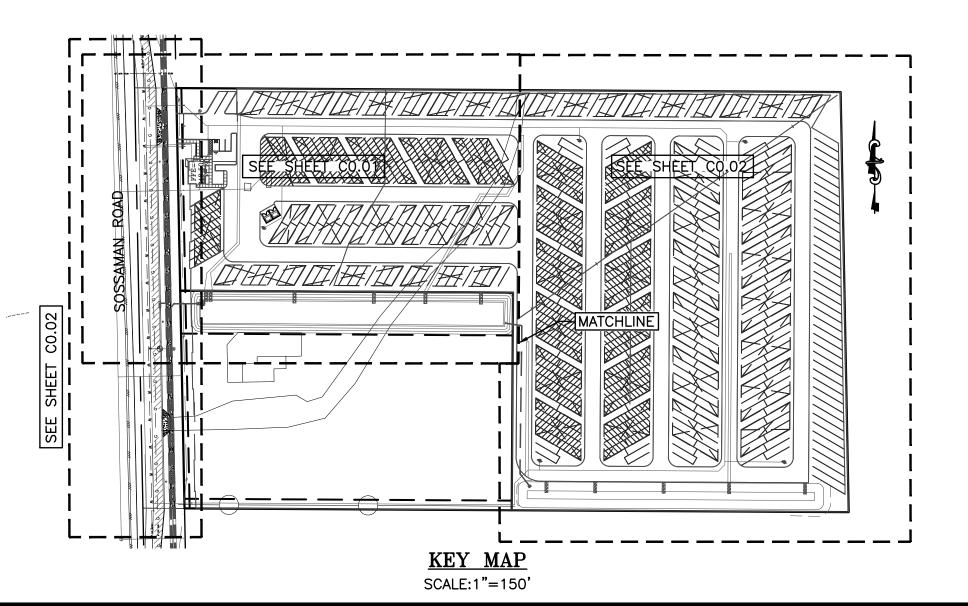
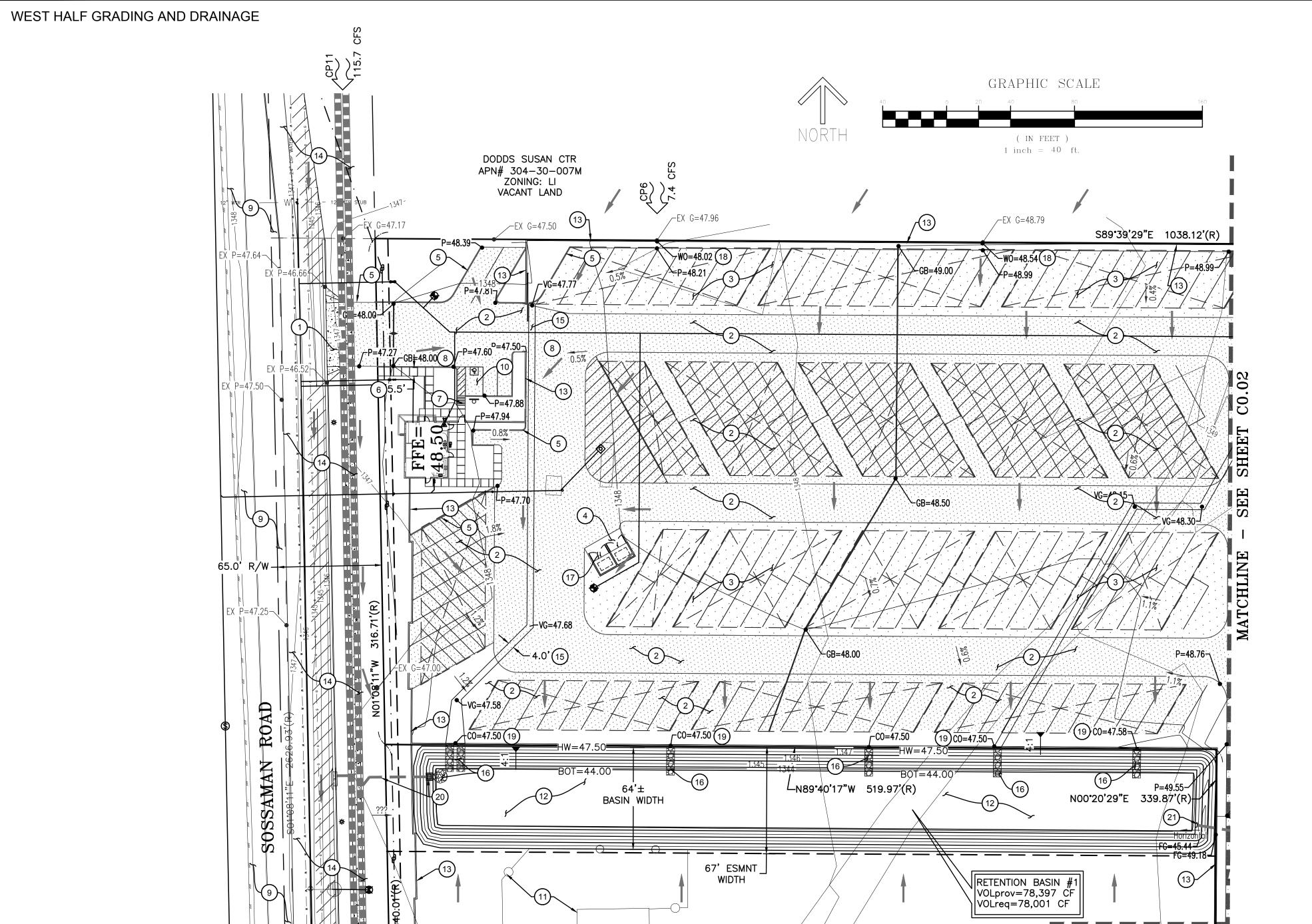
# PRELIMINARY GRADING AND DRAINAGE PLAN FOR

# MESA RV STORAGE

MESA, ARIZONA APN: 304-30-007N





### SHEET INDEX

NEW CONSTRUCTION #

2. NEW ASPHALT PAVEMENT

3. NEW DG GRAVELED AREA

5. NEW CONCRETE CURB

4. NEW CONCRETE PAVEMENT

6. NEW CONCRETE SIDEWALK

8. NEW SURFACE GRADEBREAK

9. EXISTING ASPHALT PAVEMENT

11. EXISTING FENCE AND STRUCTURE

13. NEW CMU BLOCK SCREEN WALL

19. NEW CURB AND WALL OPENING

FROM EASTERN RETENTION BASIN.

OUT TO PUBLIC SD PIPES.

AND DRAINAGE IMPROVEMENTS

NEW SIDEWALK RAMP

12. NEW RETENTION BASIN

15. NEW VALLEY GUTTER

18. NEW WALL OPENING

17. NEW TRASH ENCLOSURE

16. NEW RIP RAP

NEW CONCRETE DRIVEWAY ENTRANCE

10. 2% MAXIMUM SLOPE FOR ADA PARKING SPACES.

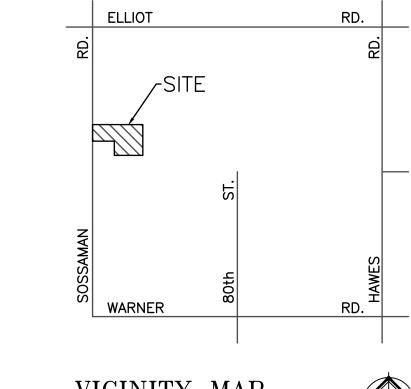
14. SEE SHEET CO.02 FOR PROPOSED OFFSITE PAVEMENT

20. NEW CONCRETE CATCH BASIN AND BLEEDER PIPE

21. NEW CONCRETE HEADWALL. INLET FROM BLEEDER

CO.01 WEST HALF - GRADING AND DRAINAGE CO.O2 EAST HALF - GRADING AND DRAINAGE, PUBLIC

**IMPROVEMENTS** CO.O3 UTILITIES



## VICINITY MAP SCALE: NTS

## SITE AREA

GROSS AREA = 723,961 S.F. (16.61 AC) = 694,408 S.F. (15.94 AC) NET AREA

## **LEGAL DESCRIPTION**

EXCEPTING THEREFROM THE FOLLOWING: THAT PART OF THE EASTERLY 225.40 FEET OF THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER, AND THE NORTH HALF OF THE SOUTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 17, TOWNDHIP 1 SOUTH, RANGE 7 EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA,

**DESCRIBED AS FOLLOWS:** FROM THE NORTHEAST CORNER OF SAID NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 17; MEASURE THENCE SOUTH 00 DEGREES 08 MINUTES 42 SECONDS WEST ALONG THE EAST LINE OF THE SAID NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 17, A DISTANCE OF 33.01 FEET TO THE POINT

OF BEGINNING; THENCE CONTINUING SOUTH 00 DEGREES 08 MINUTES 42 SECONDS WEST, 1932.58 FEET TO THE SOUTHEAST CORNER OF THE SAID NORTH HALF OF THE SOUTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 17; THENCE NORTH 88 DEGREES 15 MINUTES 49 SECONDS WEST ALONG THE SOUTH LINE OF THE SAID NORTH HALF OF THE SOUTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 17, A DISTANCE OF 225.49 FEET;

THENCE NORTH 00 DEGREES 08 MINUTES 42 SECONDS EAST, PARALLEL TO AND 225.40 FEET WESTERLY FROM THE EAST LINE OF THE WEST HALF OF THE NORTHWEST QUARTER OF SECTION 17, A DISTANCE OF 1932.54 FEET TO A POINT 33.00 FEET SOUTHERLY FROM THE NORTH LINE OF THE SAID NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 17;

THENCE SOUTH 88 DEGREES 16 MINUTES 26 SECONDS EAST, 225.49 FEET TO THE POINT OF BEGINNING.

### FLOOD INFO - FIRM DATA

ACCORDING TO FEMA FLOOD INSURANCE RATE MAP NO. 04013C2760 L DATED OCTOBER 16, 2013, THE SUBJECT PROPERTY IS LOCATED IN SHADED ZONE X. SHADED ZONE X IS DESCRIBED AS: "AREAS OF 500-YEAR FLOOD; AREAS OF 100-YEAR FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 100-YEAR FLOOD."

## OFFSITE DRAINAGE

THERE ARE OFFSITE FLOWS AFFECTING THE SITE FROM THE NORTH AND EAST. ALL FLOWS WILL BE ACCEPTED AND ROUTED TO HISTORICAL LOCATIONS. ALL ONSITE FLOWS WILL BE RETAINED ONSITE.

## **ELEVATION BENCHMARK**

BRASS TAG IN HEADWALL AT THE INTERSECTION OF SOSSAMAN ROAD AND ELLIOT ROAD. NAVD 88 ELEVATION = 1350.18. (CITY OF MESA)

## RETENTION CALCULATIONS FIRST FLUSH STORM EVENT

**VOLUME REQUIRED** Vreq = C\*A\*P/12C = 0.950

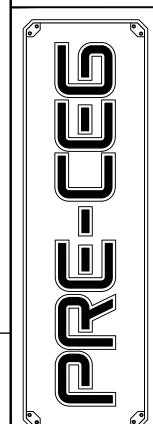
P = 2.20 INWATERSHED A = 694,408 S.F.Vreq = 120,943 C.F. Vprov= 121,732 C.F.

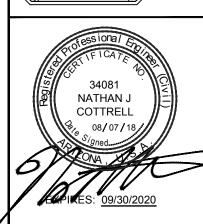
## **ENGINEER**

CEG APPLIED SCIENCES 12409 W. INDIAN SCHOOL ROAD AVONDALE, AZ 85392 (623) 536-1993 CONTACT: NATE COTTRELL

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NG AND DREER SHEET
V STORAGE







C0.01

