

NOTE

1.- GRADING AND DRAINAGE PLANS SHALL BE BASED ON APPROVED GRADING AND DRAINAGE PLANS FOR THE SUBDIVISION. THE MINIMUM FINISH FLOOR ELEVATION SHALL BE AT OR ABOVE THE FINISH FLOOR ELEVATION SHOWN ON THE APPROVED GRADING AND DRAINAGE PLAN.

2.- ONSITE RETENTION WIL BE OBTAINED IN THE MASTER RETENTION BASIN FOR THIS SUBDIVISION IN TRACT A.

3.- 8-INCH GRAVITY SEWER LINES WILL BE CONNECTED TO THE EXISTING 8-INCH SEWER IN HERMOSA VISTA DRIVE AND 40TH STREET NEAR THE SOUTHWEST CORNER OF THE PROJECT.

4.- THIS SITE IS FREE FROM ANY OFFSITE RUNOFF.

NOTE

1. NO GATES ON N. ALTA MESA DR.
2. MCKELLIPS' EXIT WILL BE GATED AND PERMANENTLY CLOSED WITH KNOX BOX AND PEDESTRIAN GATE.

RETENTION CALCULATIONS

THE RETENTION BASINS ARE O BE SIZED TO RETAIN 100% OF THE 100-YEAR, 2-HOUR STORM EVENT IN ACCORDANCE WITH THE CITY OF MESA REQUIREMENTS.

LOT WEIGHTED 'C' CALCULATIONS:

AVERAGE LOT SIZE = 3,496 S.F.
ROOF & CONCRETE = 2,447 S.F.
GRASS LANDSCAPE = 524.5 S.F.
DESERT LANDSCAPE = 524.5 S.F.

$$\frac{(2447 \times 0.95) + (524.5 \times 0.15) + (524.5 \times 0.5)}{3,496} = 0.76$$

SITE WEIGHTED 'C' CALCULATIONS:

TOTAL AREA = 181,608 S.F.
STREET AREA = 40,418 S.F.
LOT AREA = 141,189 S.F.

$$\frac{(40,418 \times 0.85) + (141,189 \times 0.76)}{181,608} = 0.78$$

RETENTION REQUIRED:

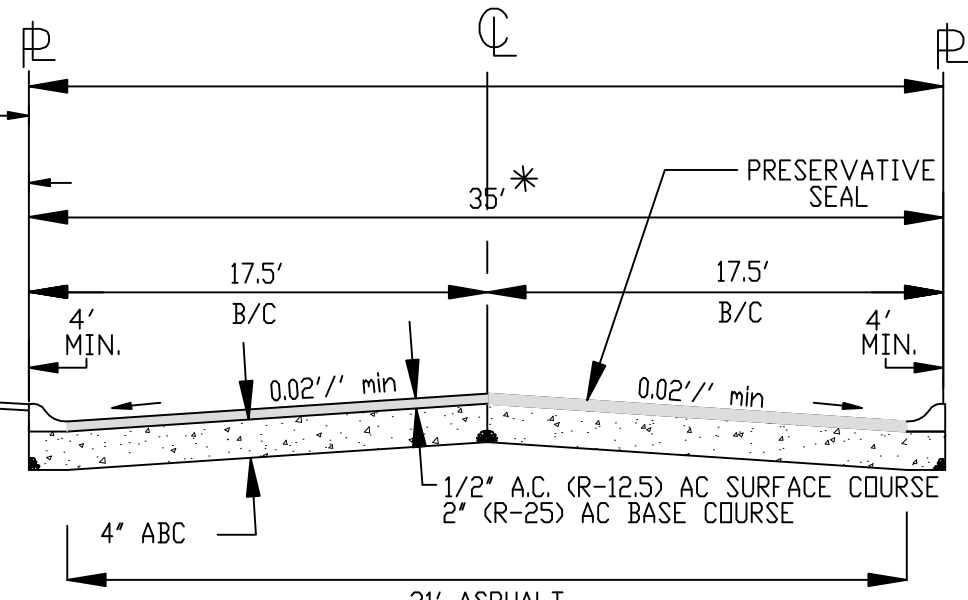
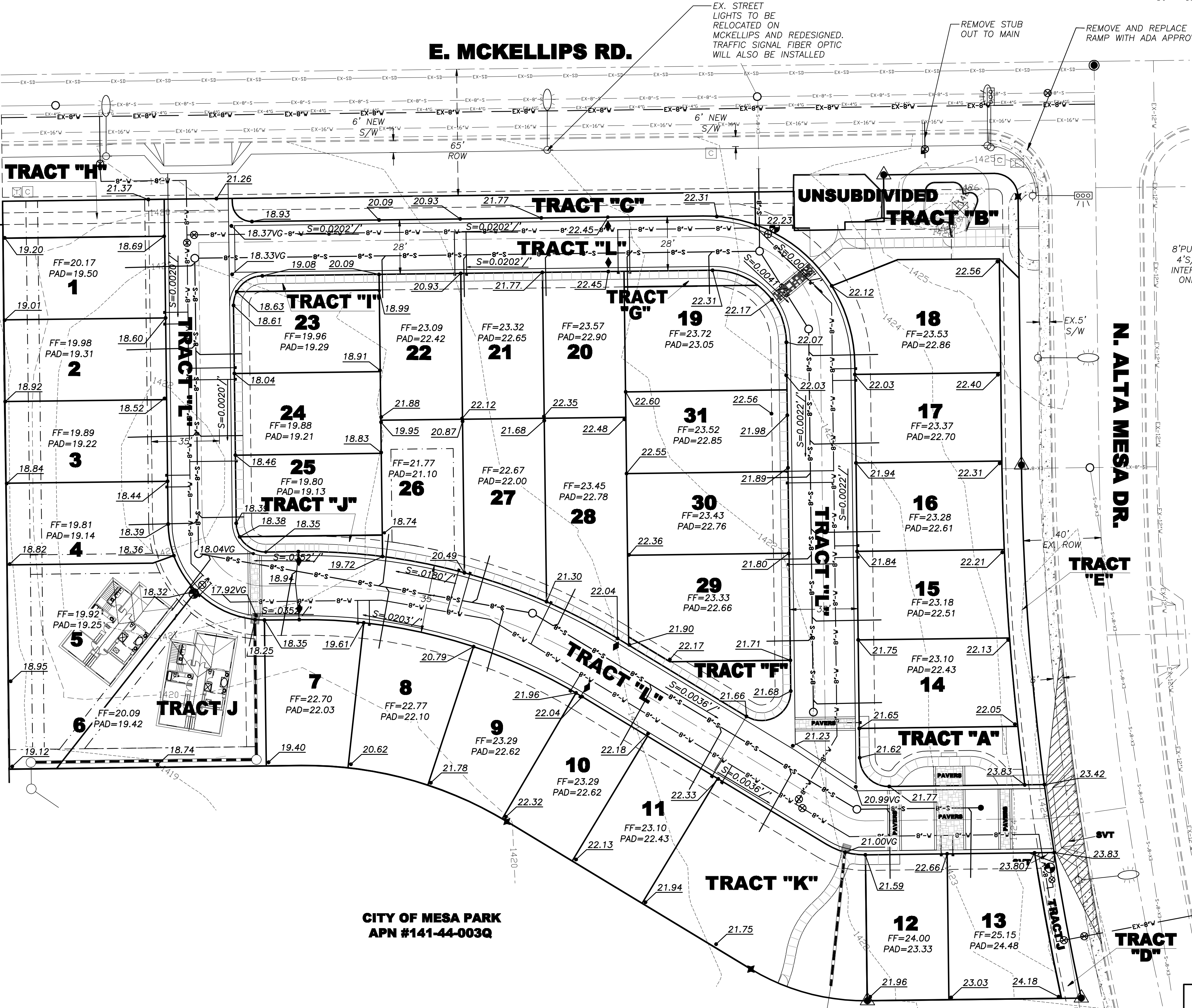
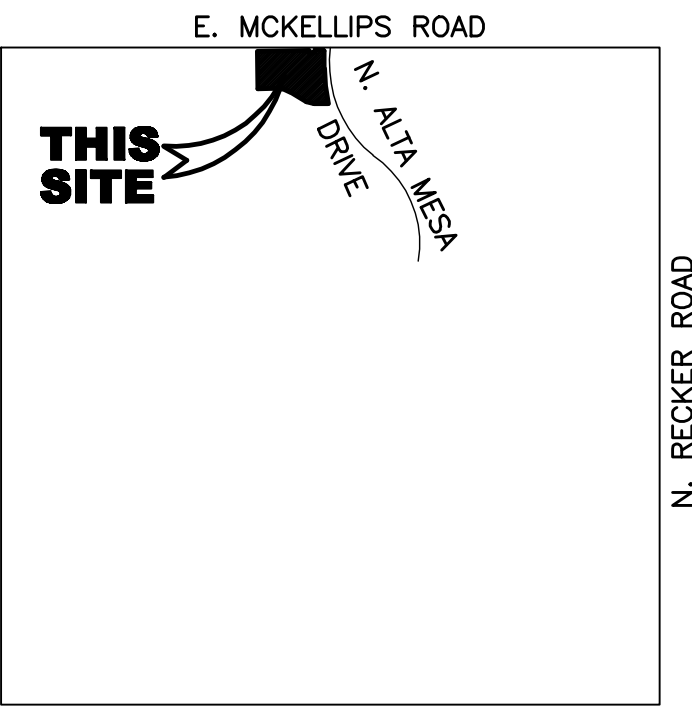
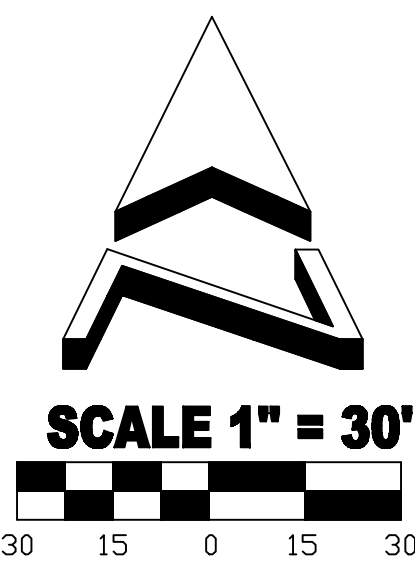
$$V = C(D/12)A$$

$$(0.78)(2.2/12)(181,608) = 25,969 \text{ C.F.***}$$

***NOTE: THE TOTAL SITE VOLUME OF 25,969 C.F. WILL BE COMPLETELY DISCHARGED INTO THE RETENTION BASIN LOCATED IN THE ALTA MESA PARK TO THE SOUTH OF THE SITE.

SANCTUARY AT ALTA MESA

A PORTION OF SECTION 11, TOWNSHIP 1 NORTH, RANGE 6 EAST OF
THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY,
ARIZONA



TYPICAL SECTION OF INTERIOR STREETS
35' PRIVATE ACCESSWAY

35' PRIVATE ACCESSWAY WITH EMERGENCY & SERVICE TYPE VEHICLE, REFUSE COLLECTION, PUBLIC UTILITY & FACILITIES & DRAINAGE EASEMENTS

* 28' PRIVATE ACCESSWAY WITH EMERGENCY & SERVICE TYPE VEHICLE, REFUSE COLLECTION, PUBLIC UTILITY & FACILITIES & DRAINAGE EASEMENTS WITH NO PARKING ON THE NORTH SIDE

CITY OF MESA PARK
APN #141-44-003Q



CALL TWO WORKING DAYS
BEFORE YOU DIAL
263-1100
1-800-STAKE-IT
OUTSIDE MARICOPA COUNTY

DATE
DATE
DATE

**ALLEN
CONSULTING
ENGINEERS, INC.**

3921 E. BASELINE ROAD #112
GILBERT, ARIZONA 85234
PHONE (480) 844-1666
E-MAIL: ace@allenconsultengr.com

SANCTUARY AT ALTA MESA
PRELIMINARY GRADING AND DRAINAGE PLAN

JOB NUMBER	95515	SHEET	2	OF	2
DRAWING	PRELIM-G&D	CHECKED BY		DATE	06-27-16
DRAFTSMAN					