I-B. TOPOGRAPHY AND GRADING

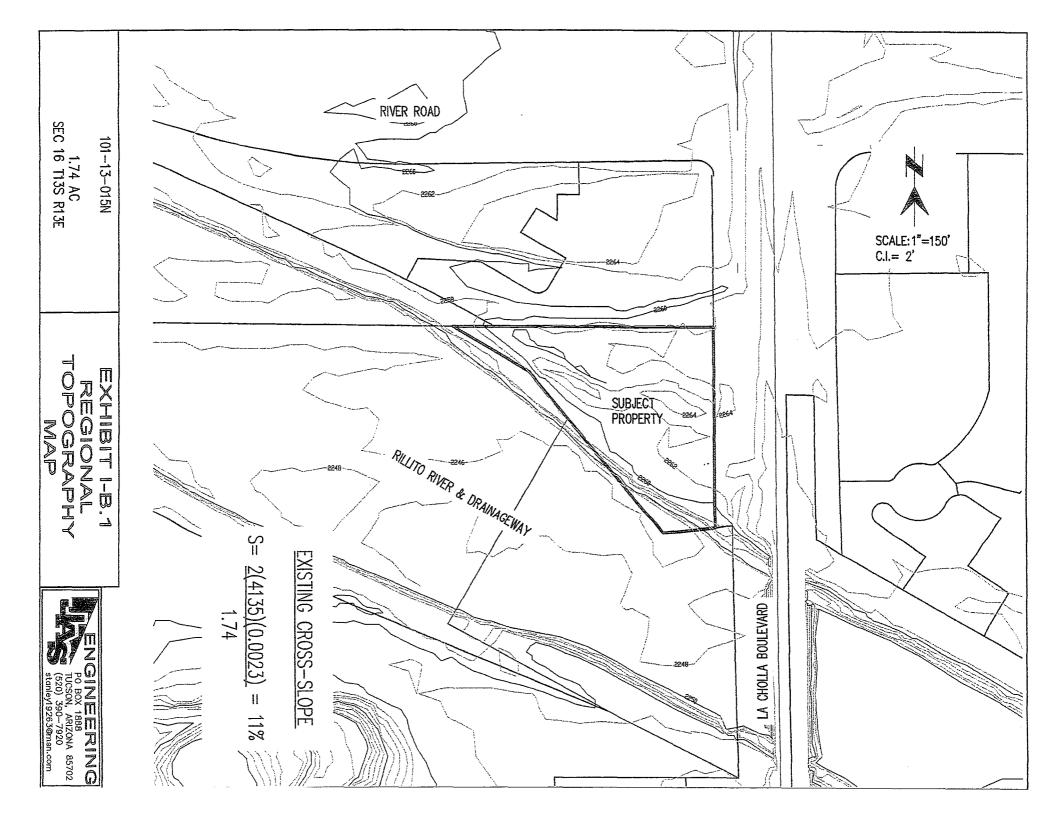
1. Topographic Characteristics

The topographic characteristics of the property are described below and are depicted on Exhibit I-B.1:

- a. There are no restricted peaks or ridges on the property.
- b. There are no rock outcrops on the property.
- c. There are not any natural slopes that are 15% on the property.
- d. There is one significant topographic feature on the property and that is the Rillito River.
- e. There is some existing onsite grading associated with land clearing done by the previous owner (TEP).

2. Predevelopment Average Cross Slope

The pre-developed average cross-slope is 11%, which includes the steep bank protected banks of the Rillito River. This percentage was derived from the following formula: (4135 ft x 2 ft x 0.0023)/1.74 = 11%.



I-C. HYDROLOGY

1. Off-site Hydrology

Exhibit I-C.1 is an offsite watershed display. The offsite watersheds consist of a portion of La Cholla Boulevard and the Circle K store site to the north.

A portion of La Cholla Boulevard and part of the Circle K store site drain to the northeast corner of the project site. This 3.4-acre area discharges about 32 cfs into an earthen swale located along the north boundary. The remainder of the Circle K site (1.0 ac, 9.4 cfs) drains to the northwest corner of the site (see Exhibit I-C.1).

The north half of the site combines with the two offsite flows to create a 5.2-acre watershed that discharges about 46 cfs to the northwest corner of the site. The remaining portion of the site (0.9 ac, 4.2 cfs) drains to the south.

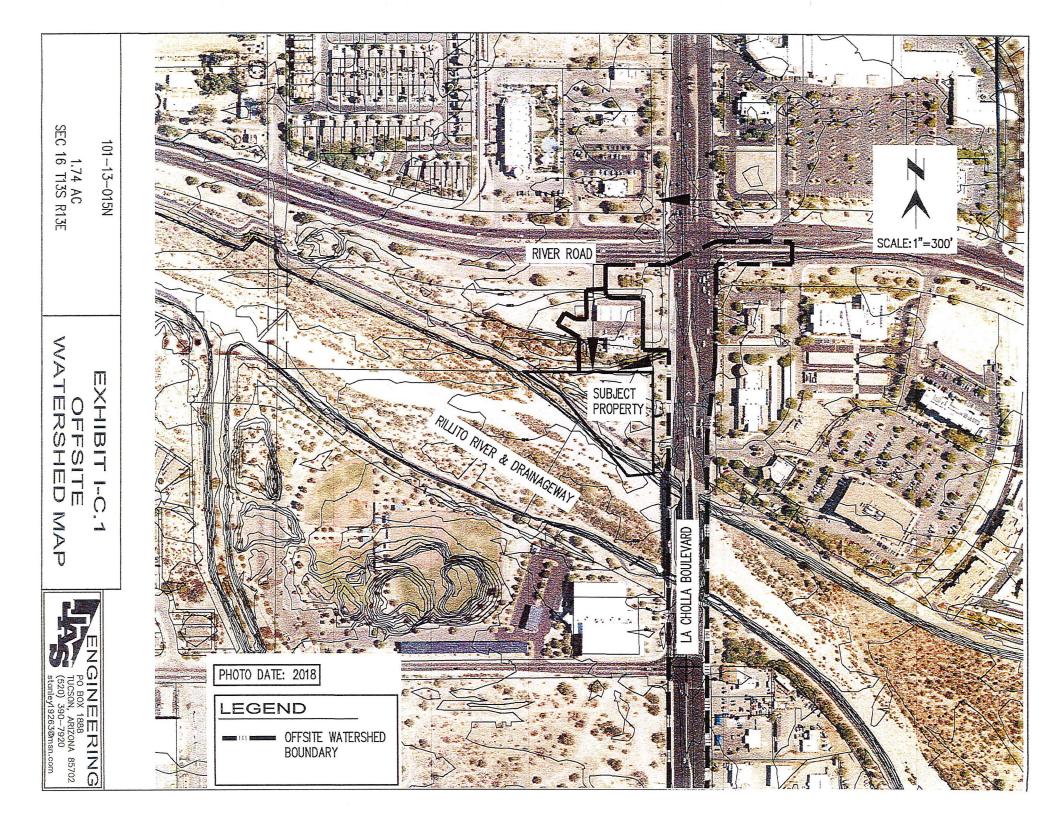
2. On-site Hydrology

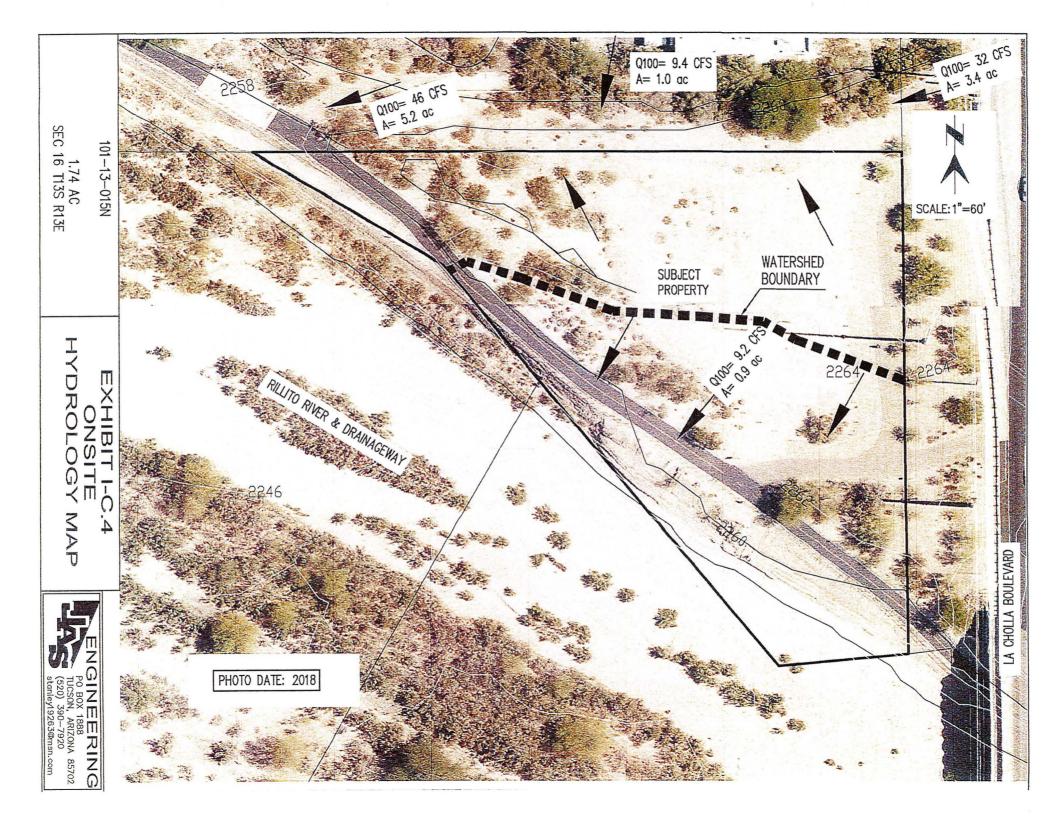
Exhibit I-C.4 depicts the relevant conditions of onsite hydrology. Below is a list of the pertinent items:

- a. The Rillito River is listed as a Flood Control Resource Area.
- b. Exhibit I-C.4 includes peak discharges and concentration points.
- c. The developable portion of the project site is within a federally mapped Shaded Zone X (FIRM panel 04019C1667L), Pima County, Arizona and Incorporated Areas, effective date: June 16, 2011. The portion of the site that is within the Rillito River is within a Zone AE floodplain.
- d. There is not a floodplain with 100 cfs or greater during a 100-year storm that affects the site.
- e. There is not any onsite sheet flow.
- f. There are not any lakes, ponds, wetlands, springs, or perennial surface water onsite.
- g. There are not any onsite washes that warrant an erosion hazard setback.
- h. There is mapped, regulated Important Riparian Hydromesoriparian habitat classifications adopted by the 2005 Floodplain and Erosion Hazard Management Ordinance amendment on the project site.
- i. Flow arrows are shown on the Exhibit.
- j. There is a drainage easement (Dkt 6532 Pg 971) and a Drainage and Recreation Easement (Dkt 10636 Pg 1948) on the property. Neither easement affects the development of the site. Both are associated with the Rillito River.
- k. Drainage infrastructure onsite consists of the Rillito River and a couple of graded earthen channels.

3. Hydrology

- a. Downstream flood conditions are essentially the same for pre- and postdevelopment of the site. Non-regulatory flows are associated with the site, which is within a balanced drainage basin.
- b. A 3.4-acre area discharges about 32 cfs into an earthen swale located along the north boundary. Another 1.0-acre watershed discharges 9.4 cfs drains to the northwest corner of the site (see Exhibit I-C.1). The north half of the site combines with the two offsite flows to create a 5.2-acre watershed that discharges about 46 cfs to the northwest corner of the site. The remaining portion of the site (0.9 ac, 4.2 cfs) drains to the south.
- c. Peak discharges at the site were determined by using Pima County's PC Hydro calculation methodology.
- d. There is not a floodplain with 100 cfs or greater during a 100-year storm that affects the site.





I-D. BIOLOGICAL RESOURCES

- 1. <u>Conservation Land System (CLS)</u> Exhibit I-D.1 outlines Important Riparian and Biological Core Management Areas in a regional context. There is not a Special Species Management Area within the region depicted. Important Riparian Area covers the entire site as shown on the exhibit.
- 2. Sonoran Desert Conservation Plan Priority Conservation Area
 - a. The site does not fall within the Priority Conservation Area for the Pima Pineapple Cactus.
 - a. The site does not fall within the Priority Conservation Area for the Needle-Spined Pineapple Cactus.
 - a. The site does not fall within the Priority Conservation Area for the Cactus Ferruginous Pygmy Owl. The site is not within the area for the Western Burrowing Owl.
- 3. There are not any saguaros located within the site boundaries.
- 4. The site is not part of a Habitat Protection or Community Open Space priority acquisition property.

