

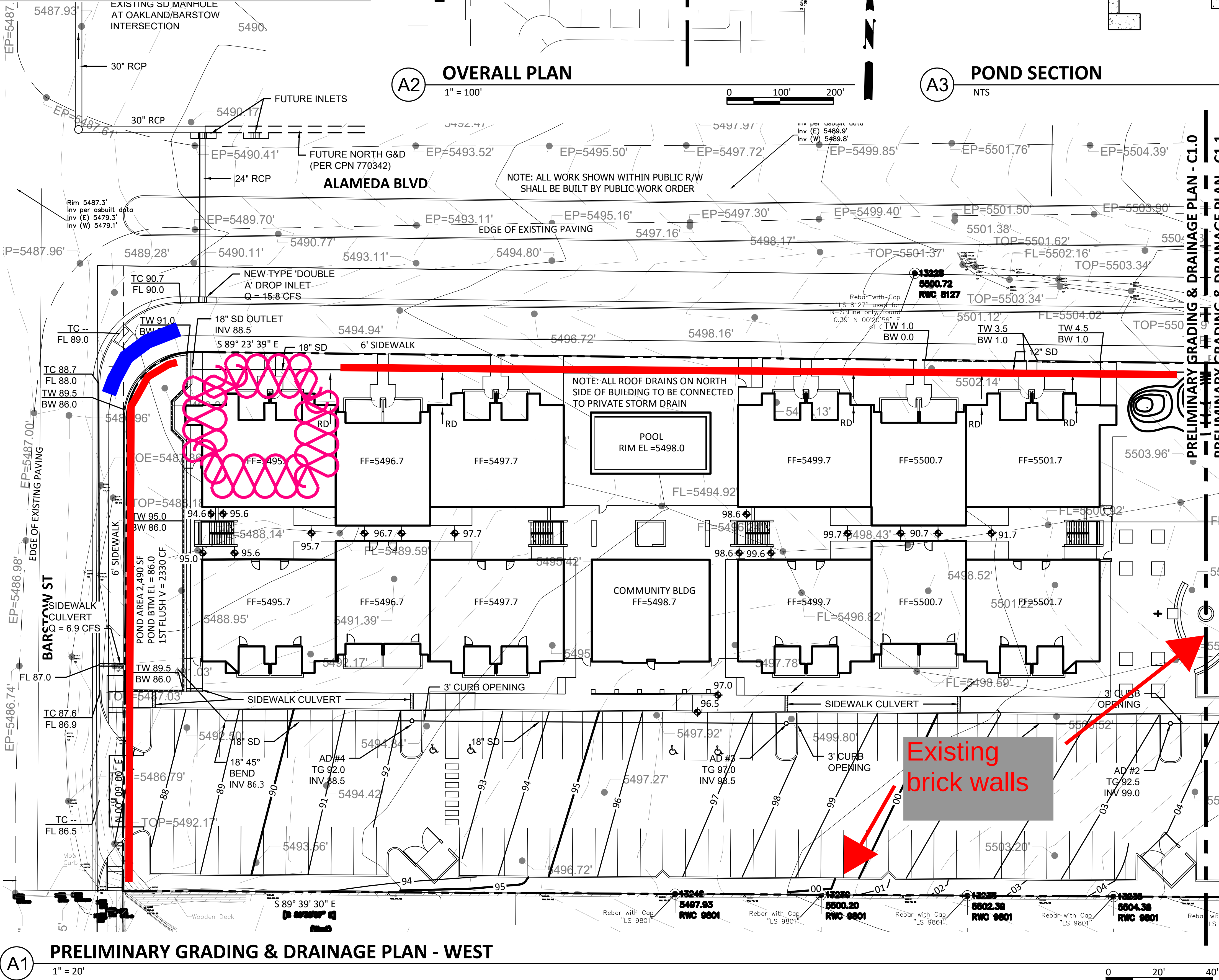
Legend

Wattle

Silt fence

Construction Entrance

Erosion and Sediment Control Plan



VICINITY MAP C-20

LEGEND

---	EXISTING CONSTRUCTION
---	NEW CONTOUR
FF=5495.7	FINISH FLOOR ELEV
65.5	NEW SPOT ELEVATION
---	NEW CONSTRUCTION
RD	ROOF DRAIN
TC	TOP OF CURB
FL	FLOWLINE
TW	TOP OF WALL
BW	BOTTOM OF WALL

DRAINAGE ANALYSIS

ADDRESS: 8650 Alameda Blvd NE, Albuquerque, NM

LEGAL DESCRIPTION: Lots 1-4, Block 4, North ABQ Acres, Tract 3, Unit 3

SITE AREA: 126,302 SF (2.90 acres)

BENCHMARK: City of Albuquerque Station '7-C19' being a brass cap.
ELEV= 5485.723 (NAVD 1988)

SURVEYOR: Cartesian Surveying Inc. dated August, 2017

PRECIPITATION ZONE: 3

FLOOD HAZARD: From FEMA Map 35001C0141G (9/26/2008), this site is identified as being within Zone 'X' which is determined to be outside the 0.2% annual chance floodplain.

OFFSITE FLOW: The site does not accept any offsite flow as it is bound by commercial development to the east, residential development to the south, and public streets along the west and north sides.

EXISTING CONDITIONS: The site is currently undeveloped with some vegetation. The site slopes down to the west at 3.5-4.0% and discharges to Barstow Street NE. This site is part of the North Albuquerque Acres Master Drainage Plan (NAAAMP) with an allowable discharge rate of 2.38 cfs/acre.

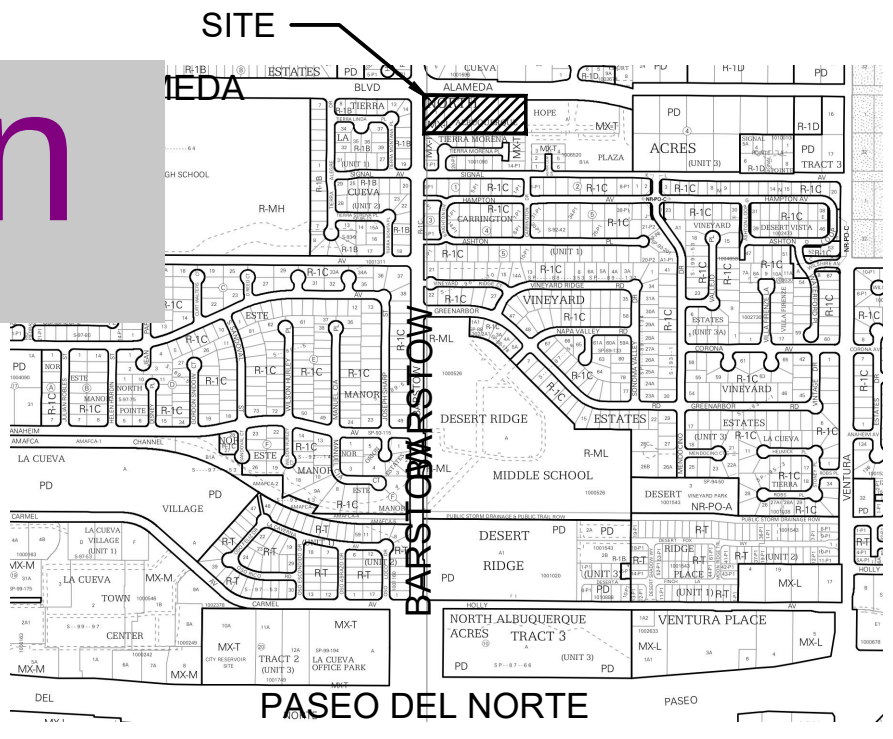
PROPOSED IMPROVEMENTS: The proposed improvements include 3 new 3-story apartment buildings, a community building with swimming pool, associated paved access and parking, and landscaping.

DRAINAGE APPROACH: The site drainage pattern will follow historic conditions and include the onsite retention of the first flush volume.

Existing land treatment: 100% A
 $Q = (1.87)(2.90) = 5.4$ CFS
Proposed land treatment: 7% B, 28% C and 65% D
 $Q = [(0.07)(2.60) + (0.28)(3.45) + (0.65)(5.02)](2.90) = 12.1$ CFS
Allowable $Q = (2.38)(2.90) = 6.9$ CFS
First flush $V = (82,096)(0.34/12) = 2,326$ CF

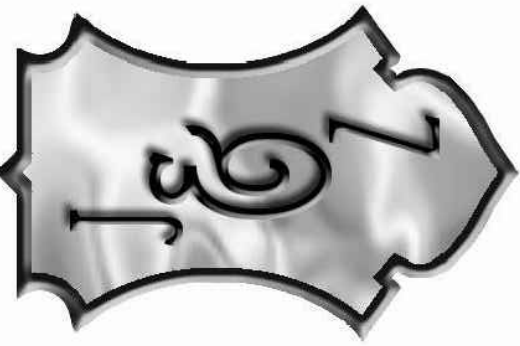
A hydrograph based on 12 min. time of concentration, 13.1 min. time to peak, and duration of peak flow of 15x0.65 = 9.75 minutes gives required volume of 20,730 CF. Based on allowable $Q = 6.9$ CFS, $V = 14,925$ CF gives difference of 5,805 CF. Pond volume provided (3.5 deep) onsite is 8,715 CF (OK > 8,131). This flow will discharge to Barstow at $Q = 6.9$ CFS by restricting through sidewalk culvert. The 1st flush volume of 2,326 CF will be retained in the pond bottom.

NOT FOR CONSTRUCTION



"WE'RE YOUR BUILDING WIZ KIDZ SO YOU CAN"

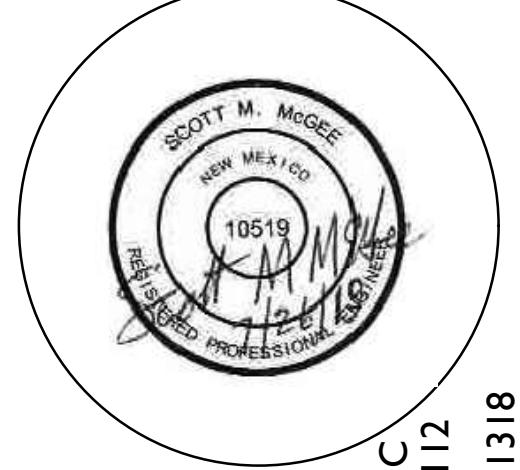
JEEBS & ZUZU, LLC.
ARCHITECTS & CONTRACTORS
MAKING HOUSE CALLS



job no:	NUMBER
drawn:	JSK
checked:	SMM
date:	05-29-19

ALAMEDA LUXURY APARTMENTS

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