

CITY OF ALBUQUERQUE



February 14, 2014

Scott McGee, PE
9700 Tanoan Drive NE
Albuquerque, NM 87104

**Re: Glenrio Apartments, Tracts 223-4 Airport Unit,
Revised Grading and Drainage Plan
Engineer's Stamp dated 1-30-2014 (J10/D043)**

Dear Mr. McGee,

Based upon the information provided in your submittal received 2-05-14, the above referenced plan is approved for Building Permit and Work Order.

This project requires a National Pollutant Discharge Elimination System (NPDES) permit for storm water discharge for disturbing one acre or more and a Topsoil Disturbance Permit for disturbing $\frac{3}{4}$ of an acre or more. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology. Prior to Acceptance of Work Order Closeout and Certificate of Occupancy, an Engineer Certification per the DPM checklist will be required.

If you have any questions, you can contact me at 924-3695.

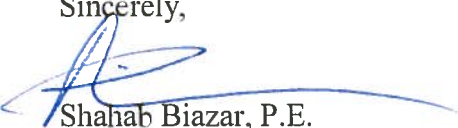
PO Box 1293

Albuquerque

New Mexico 87103

Sincerely,

www.cabq.gov


Shahab Biazar, P.E.
Principal Engineer, Planning Dept.
Development Review Services

C: e-mail



VICINITY MAP J-10

NTS

AREA: 8.93 acres (388,989 sf)

BENCHMARK: City of Albuquerque Station '6-10' being a brass cap
ELEV= 5119.81 (NAVD 1988)

SURVEYOR: Cartesian Surveying, Inc. dated July 2012

FLOOD HAZARD: From FEMA Panel 327 (9/26/08), this site is identified as being within Zone 'X' which is located outside the 100-year floodplain

EXISTING CONDITIONS: The undeveloped site slopes down from the NW to the SE at slightly less than 1%. Glenrio Road NW abuts the site along the south and Interstate 40 runs along the north side of the site. Residential developments about the site to the west and east.

OFFSITE FLOW: An existing 30" culvert (at the NW site corner) discharges runoff from the adjacent I-40. This runoff (which is quantified below), will continue to be accepted onsite, routed to a detention pond, and then to Glenrio Road NW.

PROPOSED IMPROVEMENTS: The proposed improvements include four 3-story residential buildings, a community building with pool, maintenance building, garage buildings, and associated paved parking and landscaping. A depressed landscape area is proposed at the northeast end of the site which will receive developed runoff from both roof and parking areas. A drainage inlet located in a second depressed area is proposed at the south end of the parking area which will drain via a storm drain piped to the existing public storm drain in Glenrio Road NW.

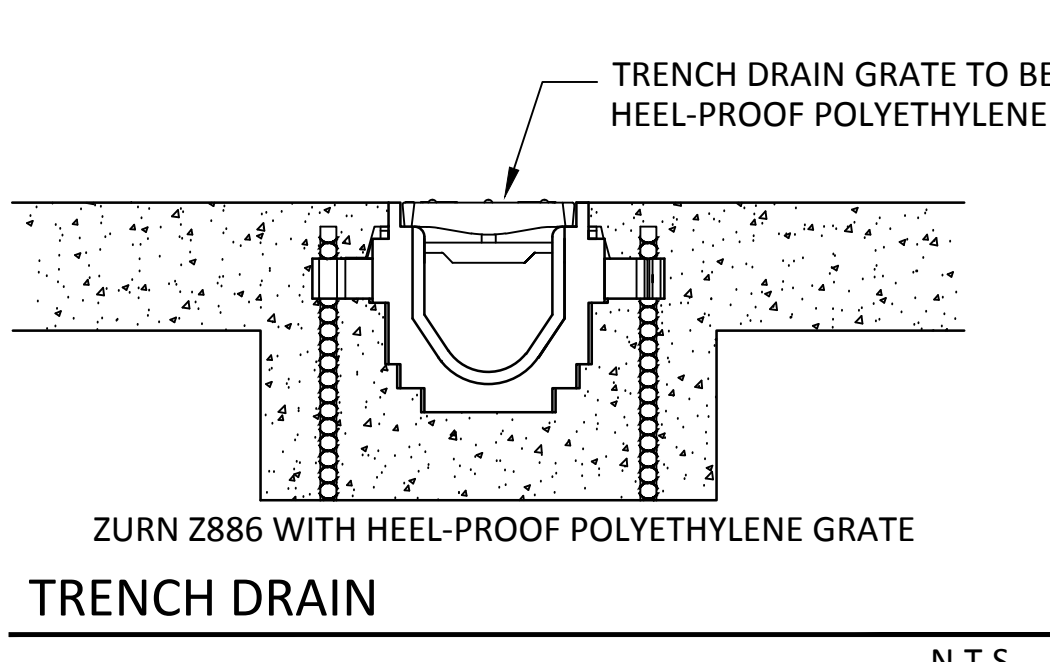
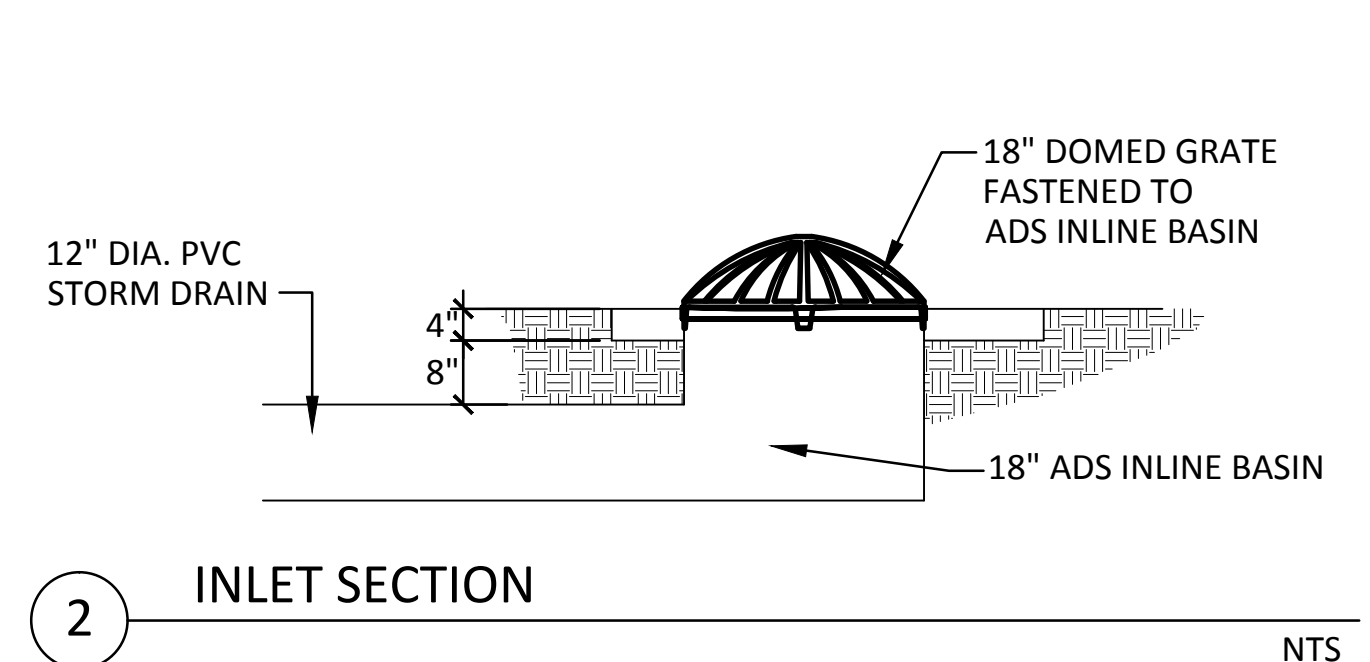
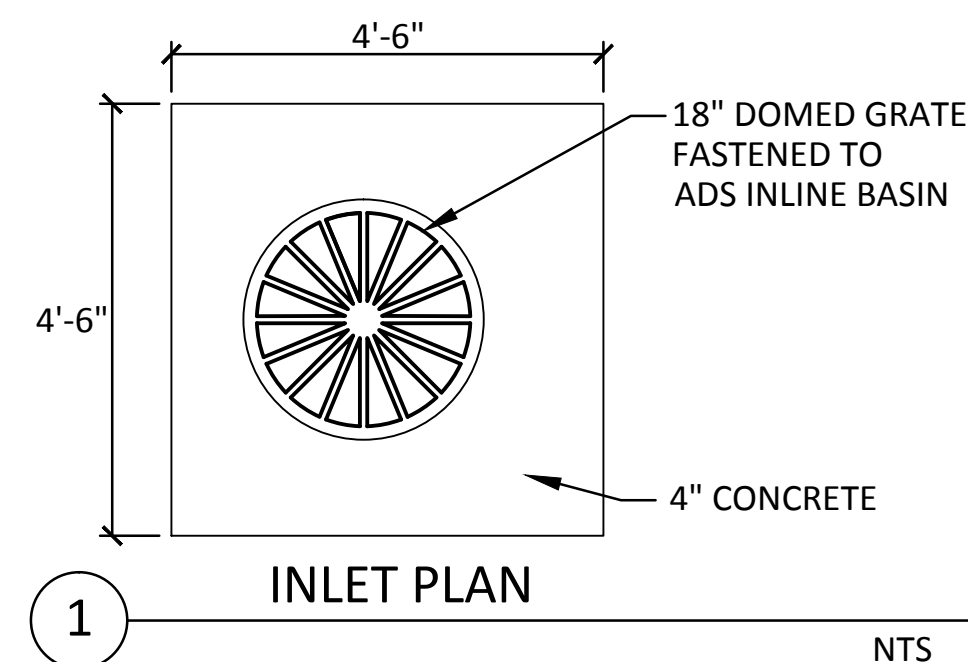
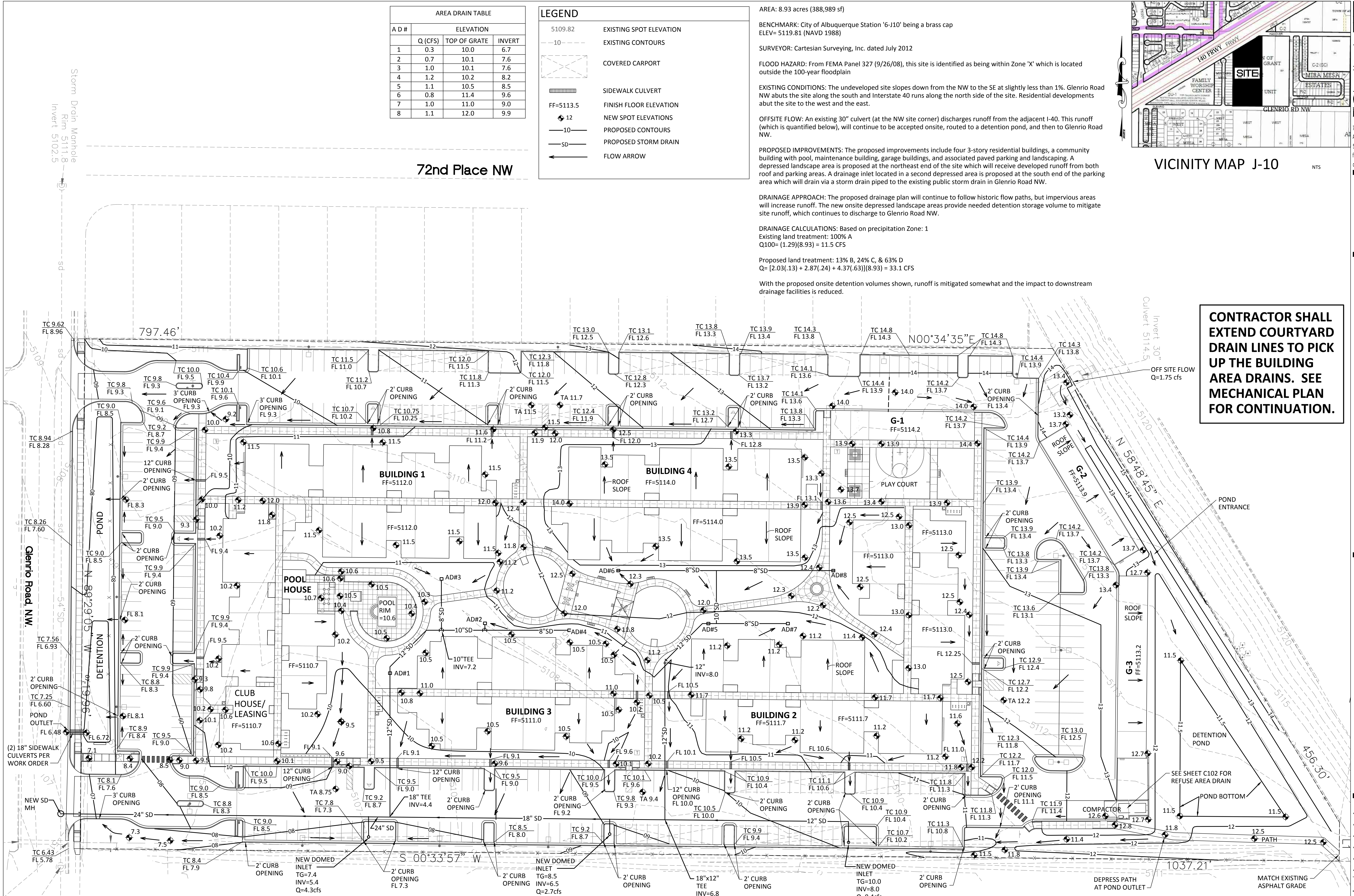
DRAINAGE APPROACH: The proposed drainage plan will continue to follow historic flow paths, but impervious areas will increase runoff. The new onsite depressed landscape areas provide needed detention storage volume to mitigate site runoff, which continues to discharge to Glenrio Road NW.

DRAINAGE CALCULATIONS: Based on precipitation Zone: 1
Existing land treatment: 100% A
 $Q_{100} = (1.29)(8.93) = 11.5$ CFS

Proposed land treatment: 13% B, 24% C, & 63% D
 $Q = [2.03(.13) + 2.87(.24) + 4.37(.63)](8.93) = 33.1$ CFS

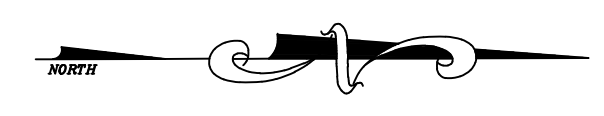
With the proposed onsite detention volumes shown, runoff is mitigated somewhat and the impact to downstream drainage facilities is reduced.

CONTRACTOR SHALL
EXTEND COURTYARD
DRAIN LINES TO PICK
UP THE BUILDING
AREA DRAINS. SEE
MECHANICAL PLAN
FOR CONTINUATION.



GRADING PLAN

1" = 30 FT



PROJECT

GLENRIO APARTMENTS

ALBUQUERQUE, NM

REVISIONS

DRAWN BY
REVIEWED BY
DATE 11/12/2013
PROJECT NO.
DRAWING NAME

GRADING PLAN

SHEET NO.

C101

OF