

DRAINAGE CERTIFICATION

I, SCOTT M. MCGEE, NMPE 10519, OF THE FIRM SCOTT M. MCGEE P.E., LLC, HEREBY CERTIFY THAT THIS PHASE I PORTION OF THE SITE HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 5/05/14. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY BRIAN MARTINEZ, NMPS 18374, OF CARTESIAN SURVEYS, INC. I FURTHER CERTIFY THAT I PERSONALLY VISITED THE PROJECT SITE ON 12/11/14 AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE SURVEY DATA PROVIDED IS REPRESENTATIVE OF ACTUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR A TEMPORARY CERTIFICATE OF OCCUPANCY FOR BUILDING 4 (PHASE I).

THE RECORD INFORMATION SHOWN HEREON IS NOT NECESSARILY COMPLETE AND IS ONLY INTENDED TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING/DRAINAGE ASPECTS OF THIS PROJECT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT ACCURACY VERIFICATION BEFORE USING IT FOR ANY PURPOSE.

Scott M. McGee 12/16/14

SCOTT M. MCGEE, NMPE 10519



A D #	AREA DRAIN TABLE		
	Q (CFS)	TOP OF GRATE	INVERT
1	0.3	10.0 9.97	6.7 7.2
2	0.7	10.1 9.83	7.6 7.9
3	1.0	10.1 9.86	7.6 7.9
4	1.2	10.2 9.82	8.2 3
5	1.1	10.5	8.5
6	0.8	11.4	9.6
7	1.0	11.0	9.0
8	1.1	12.0	9.9

LEGEND

- 5109.82 EXISTING SPOT ELEVATION
 ---10--- EXISTING CONTOURS
 COVERED CARPORT
 SIDEWALK CULVERT
 FF=5113.5 FINISH FLOOR ELEVATION
 12 NEW SPOT ELEVATIONS
 ---10--- PROPOSED CONTOURS
 ---SD--- PROPOSED STORM DRAIN
 FLOW ARROW
 PHASE BOUNDARY LINE
 AS-BUILT ELEVATION

AREA: 8.93 acres (388,989 sf)

BENCHMARK: City of Albuquerque Station '6-J10' 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 the 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

Q100= (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.



VICINITY MAP J-10

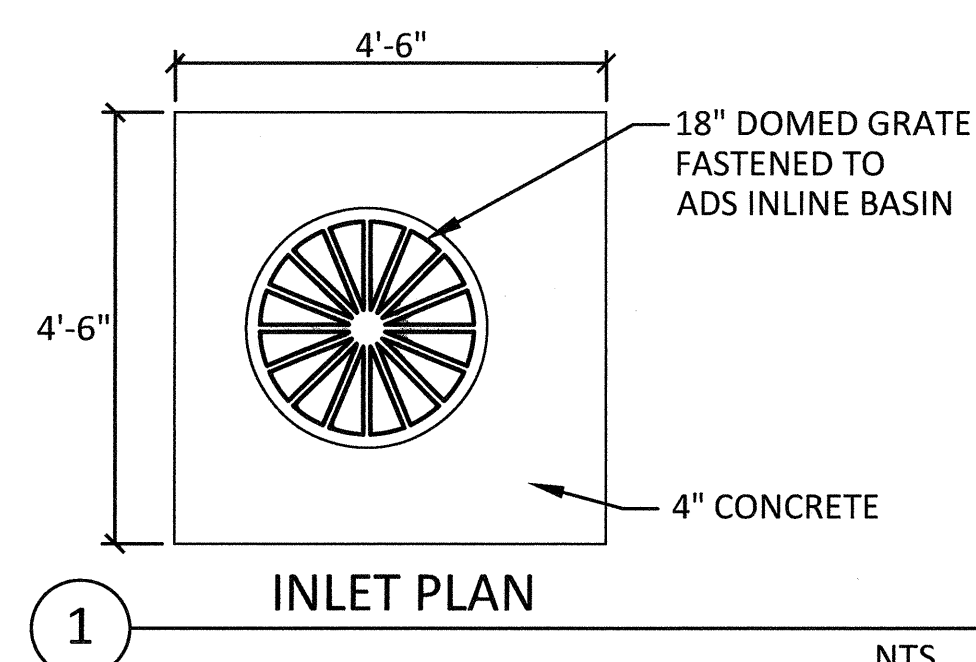
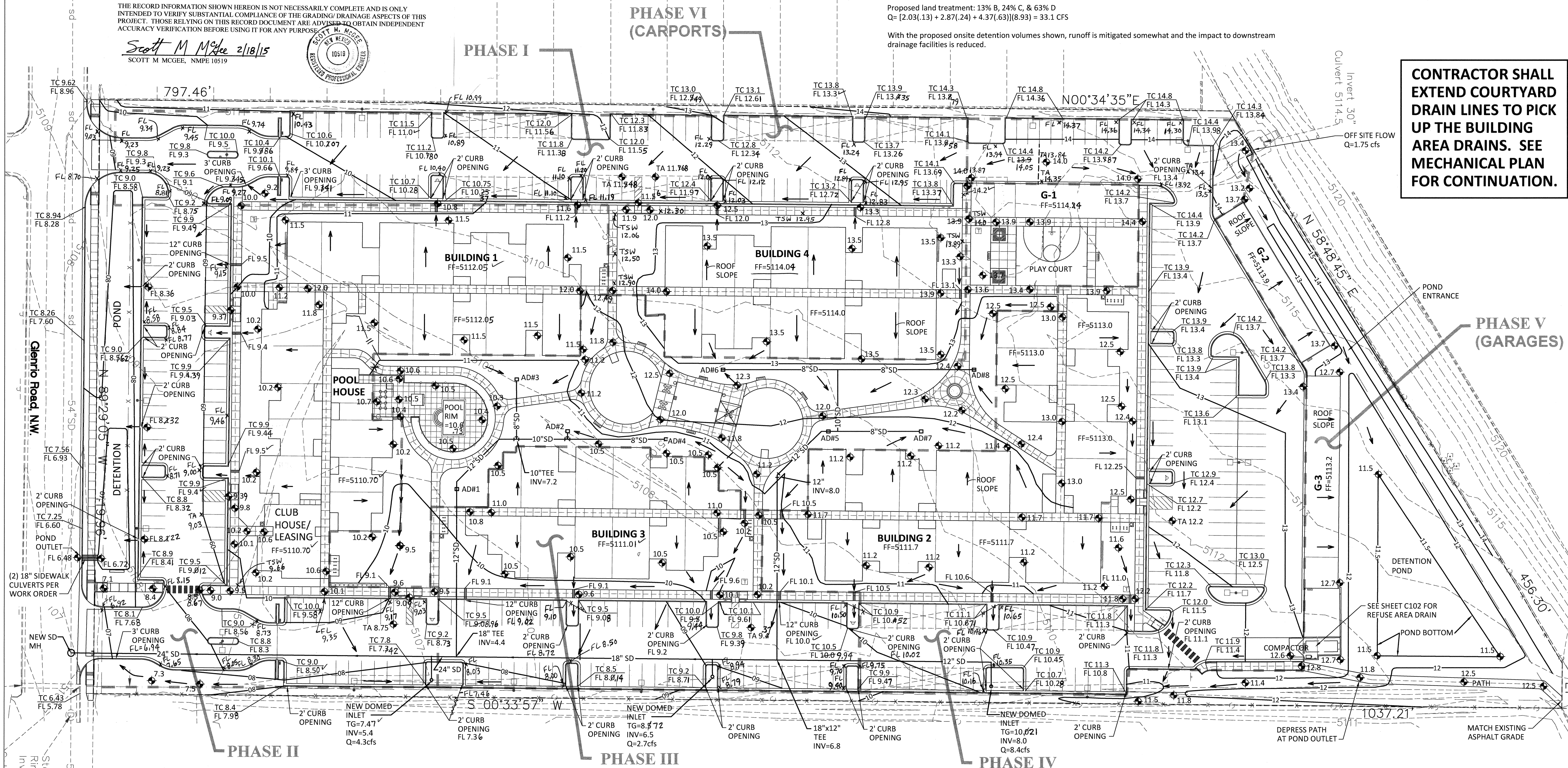
NTS

ARCHITECT

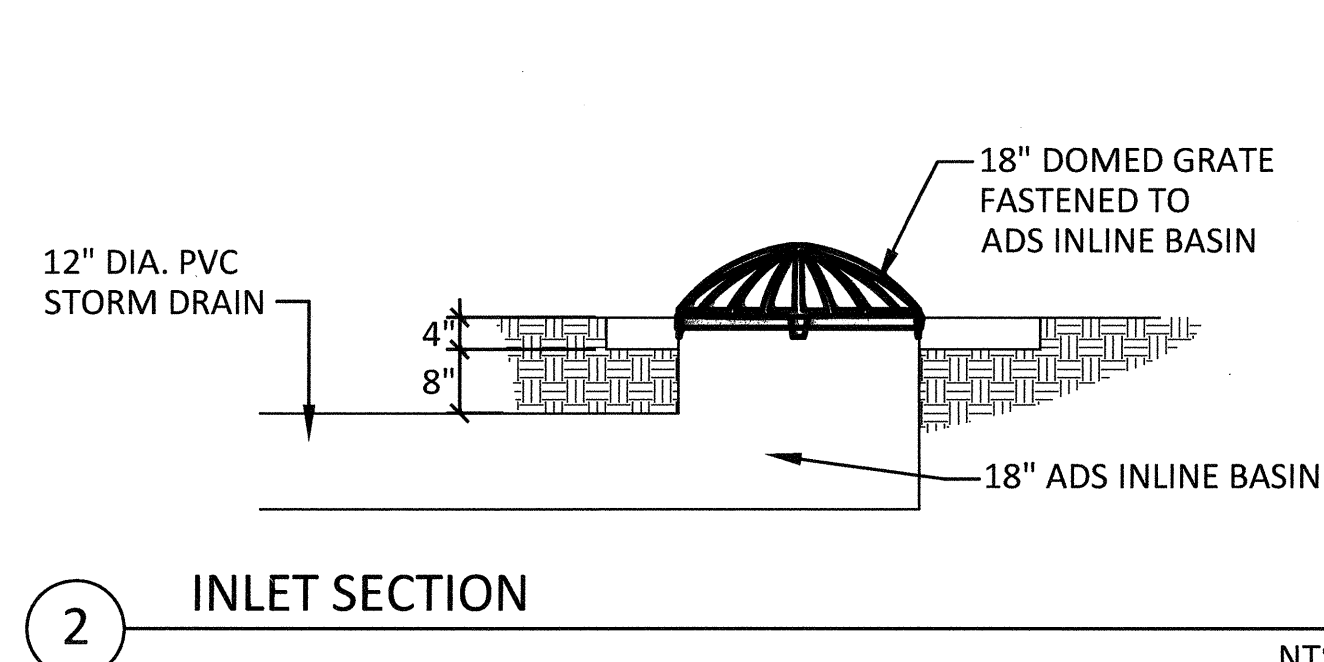


ENGINEER

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

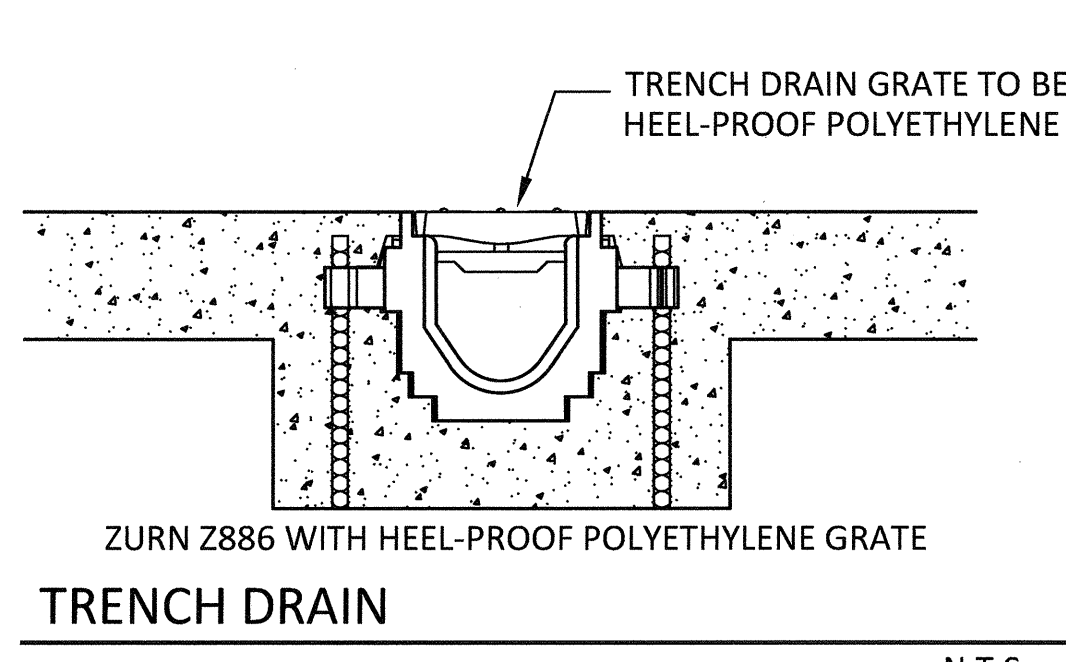


NTS



INLET SECTION

NTS



TRENCH DRAIN

N.T.S.

PHASED GRADING PLAN

1" = 30 FT

0 30' 60'

ALL GRADING SHALL BE DONE AS PART OF PHASE I. DRAINAGE IMPROVEMENTS WILL BE BUILT AS PART OF EACH PHASE. INTERIOR COURTYARD DRAINAGE WILL BE PART OF PHASE V.

PROJECT

GLENRIO APARTMENTS
 ALBUQUERQUE, NM

REVISIONS

△
 △
 △
 △
 △

DRAWN BY

REVIEWED BY

DATE

PROJECT NO.

DRAWING NAME

PHASED GRADING
 PLAN

SHEET NO.

C101
 OF

CITY OF ALBUQUERQUE



February 24, 2015

Scott McGee, PE
Scott M. McGee PE, LLC
9700 Tanoan Dr NE
Albuquerque, NM 87111

**Re: Glenrio Apartments, Phase II, Bldg. 1
6901 Glenrio Rd NW
Request for Permanent C.O. - Accepted
Engineer's Stamp dated: 5-5-14 (J10D043)
Certification dated: 2-18-15**

Dear Mr. McGee,

Based on the Certification received on 2/18/2015, the Phase listed above is acceptable for release of Certificate of Occupancy by Hydrology.

PO Box 1293 If you have any questions, you can contact me at 924-3986 or Rudy Rael at 924-3977.

Albuquerque

New Mexico 87103

www.cabq.gov

Sincerely,

Curtis Cherne, P.E.
Principal Engineer
Planning Department

C: RR/CC
CO Clerk
email