### CITY OF ALBUQUERQUE



October 5, 2015

Dennis Lorenz, P.E. Lorenz Design & Consulting 2501 Rio Grande Blvd. NW Suite A Albuquerque, New Mexico 87107

RE: Anthea – 4<sup>th</sup> and Granite NW 330 Granite NW

Request Permanent C.O. - Accepted Engineers Stamp Date 9/12/14 (J14D171)

**Certification Dated: 8/28/15** 

Dear Mr. Lorenz,

Based on the Certification received 8/31/2015, the site is acceptable for permanent release of Certificate of Occupancy by Hydrology.

If you have any questions please contact me at 924-3985 or Totten Elliott at 924-3982.

PO Box 1293

Albuquerque

New Mexico 87103

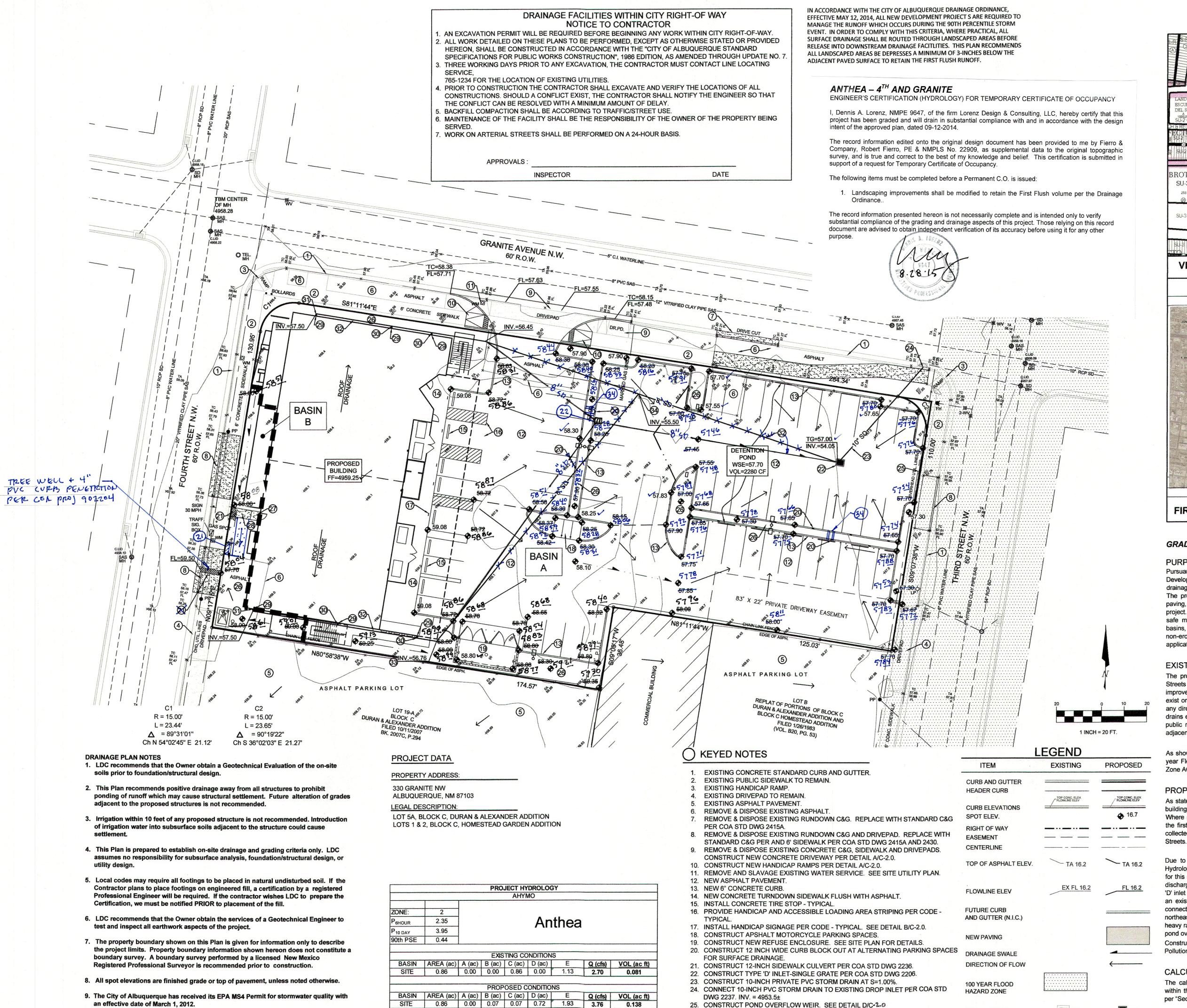
www.cabq.gov TE/SB C: File

Sincerely,

Shahab Biazar, P.E.

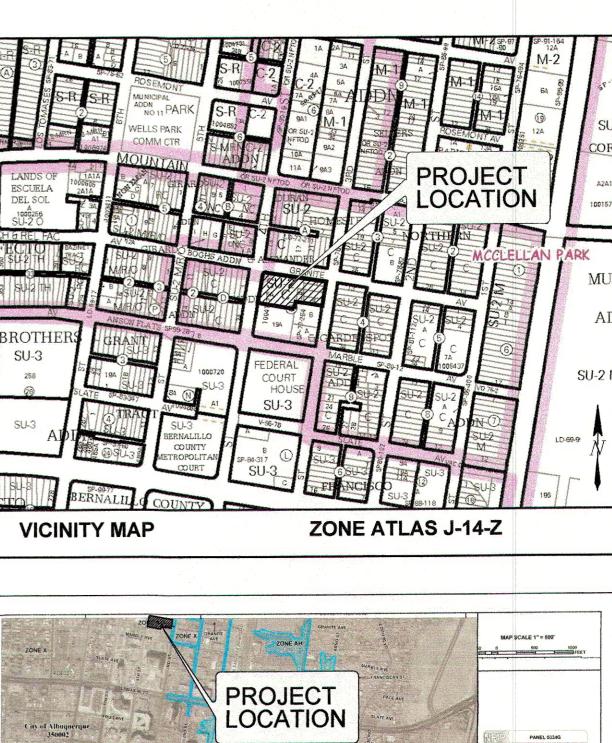
City Engineer

Planning and Development Services



A 0.82 0.00 0.07 0.04 0.71 1.96 3.62 0.134

B 0.04 0.00 0.00 0.03 0.01 1.38 0.14 0.005



FIRM PANEL

35001C0332G & 35001C0334G

BERNALILLO COUNTY NEW MEXICO AND INCORPORATED AREAS PANEL 334 OF 825

> MAP NUMBER 35001C0334G MAP REVISED SEPTEMBER 25, 2008

### GRADING AND DRAINAGE PLAN

### PURPOSE AND SCOPE

Pursuant to the Drainage Ordinance for the City of Albuquerque and the Development Process Manual, this Grading and Drainage Plan outlines the drainage management criteria for controlling developed runoff from the project site. The project consists of the construction of an 29,600 square foot building with paving, landscaping, utility, grading, and drainage improvements to support the project. The scope of this plan is to present grading and drainage criteria for the safe management of excess runoff impacting the site from upstream drainage basins, and controlling excess runoff from the project site in a well-managed, non-erosive manner. The purpose of this plan is to support building permit application.

### EXISTING CONDITIONS

The property is located at 330 Granite Avenue NW, between Third and Fourth Streets NW. The site is presently utilized as a parking lot. Existing site improvements consist of gravel surfacing. No buildings or permanent structures exist on the property. The site is extremely flat, with very little positive drainage in any direction. Excess runoff generally flows to the perimeter streets. Public storm drains exist in Third and Fourth Streets. The site is surrounded on three sides by public roadways. A paved parking lot and commercial development are located adjacent to the property on the south. No significant off-site flows impact the site.

As shown by the attached FIRM Panel, the site does not lie within a mapped 100 year Flood Zone. Portions of Third Street adjacent to the site are mapped as a Zone AO depth 1' Floodzone.

### PROPOSED IMPROVEMENTS

As stated above, the project consists of the construction of an 29,600 square foot building with paving, landscaping, utility, grading, and drainage improvements. Where practical all developed runoff will be routed through landscaping to capture the first flush before release into the perimeter streets. All excess runoff will be collected by the existing public storm drain system located in Third and Fourth

Due to limited capacity of the existing public storm drainage system the City Hydrology Department has established a 2.75 cfs per acre maximum discharge rate for this site. Therefore, the site will implement detention ponding to limit developed discharge to 2.36 cfs for the project. This will be accomplished by utilizing a Type 'D' inlet in the parking lot near the northeast corner of the site. The inlet will drain to an existing public inlet located in Granite Avenue. An 10-inch drainline will be connected to the existing public inlet, restricting discharge to 2.36 cfs. The northeast corner of the proposed parking lot will serve as a detention pond for during heavy rains. A curb blokout will be provided at Third Street as a spillway should the pond overflow.

Construction will disturb an area of less than 1.0 acres, therefore a Storm Water Pollution Prevention Plan should not be required.

### CALCULATIONS

STORM INLET

DRAINAGE BASIN DIVIDE

AS BUILT SPOT

5721

**57.25** 

26. NEW LANDSCAPING. SEE LANDSCAPE PLAN.

30. 6"x6" PVC DOWNSPOUT ADAPTER WITH 8"x8"x8" TEE. 31. 6"x6"x8" PVC DOWNSPOUT ADAPTER WITH 8"-90° BEND.

34. 12" CONCRETE CHANNEL.

27. 4'x4' LANDING AT MANDOOR.

28. 4' ADA RAMP AT 1:12 MAX.

29. 6"x6" DOWNSPOUT (TYP.).

32. 8" PVC STORM DRAIN.

33. 8"-60° PVC BEND

The calculations shown hereon define the 100-year/6 hour design storm falling within the project area under existing and proposed conditions. The hydrology is per "Section 22.2, Part A, Development Process Manual, Vol 2", dated June 1997.

ANTHEA 4TH AND GRANITE GRADING AND DRAINAGE PLA ALBUQUERQUE, NM

REVISION DATE 09/03/2014

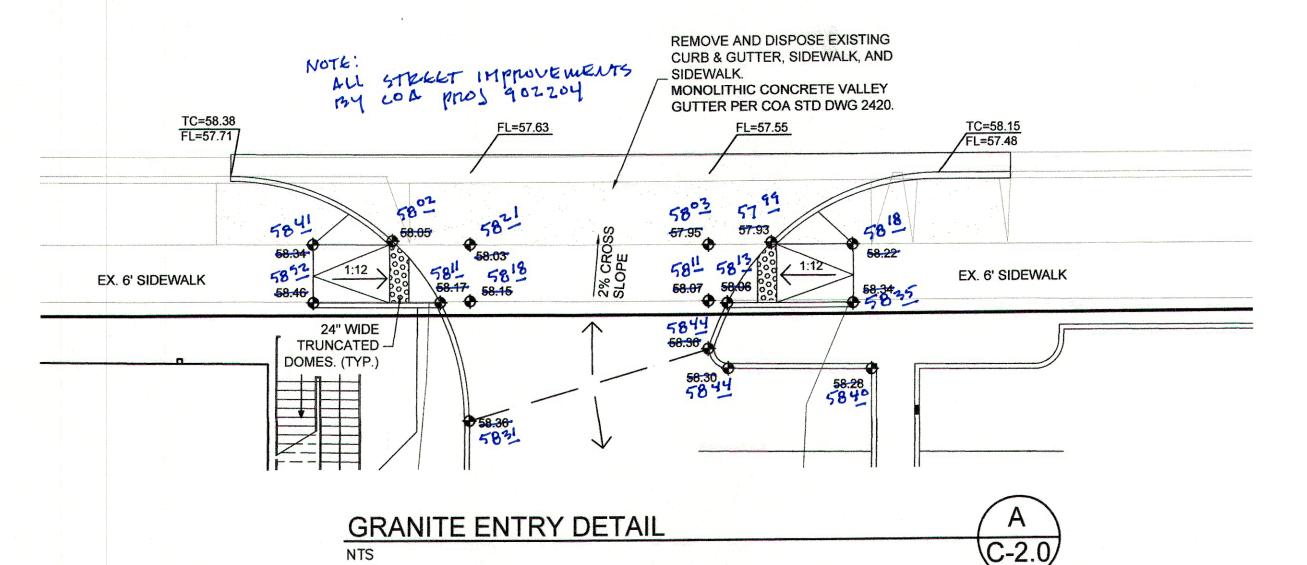
COA COMMENTS
09/12/2014

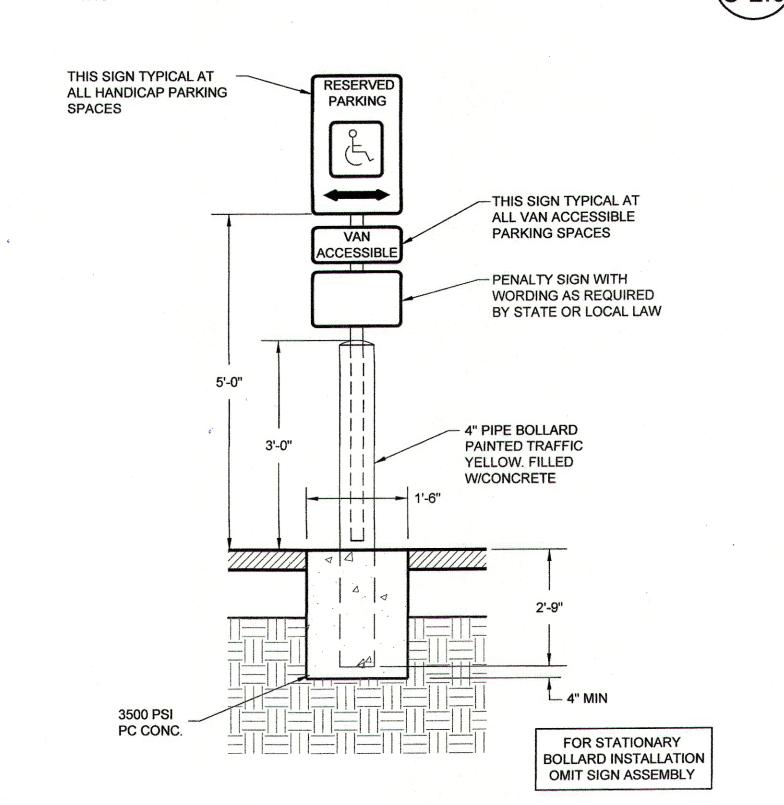


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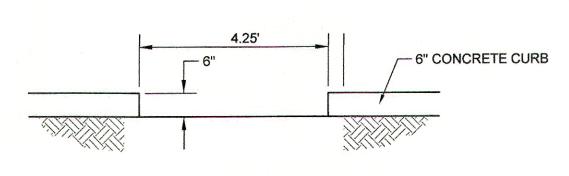
C-1 0

## GRANITE AVENUE N.W. 60' R.O.W.

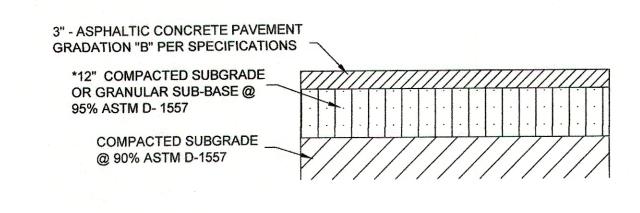




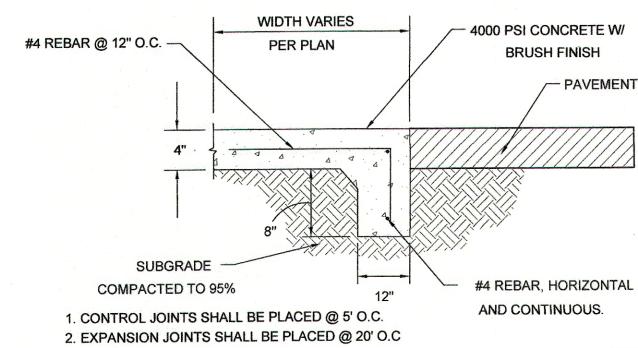
HC SIGN ASSEMBLY / BOLLARD DETAIL



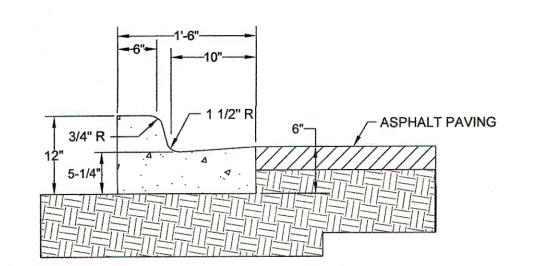




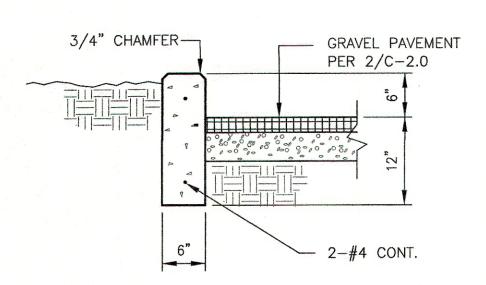




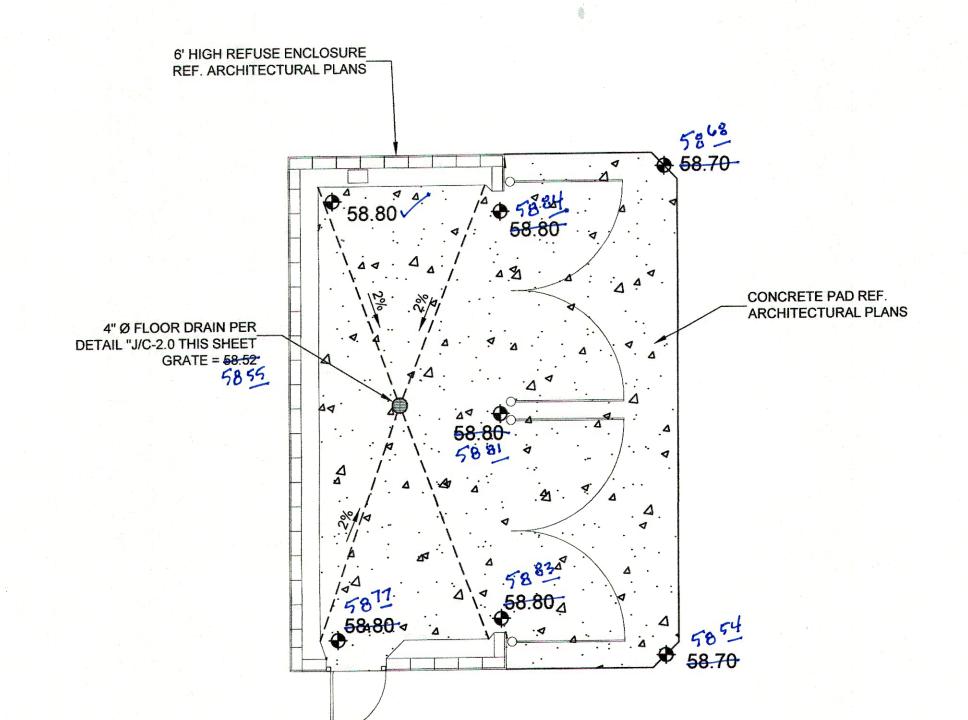
## TURN DOWN SIDEWALK AT ACCESSIBLE ZONES F

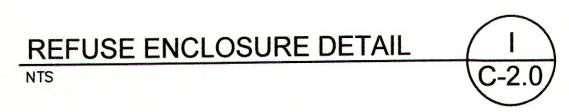


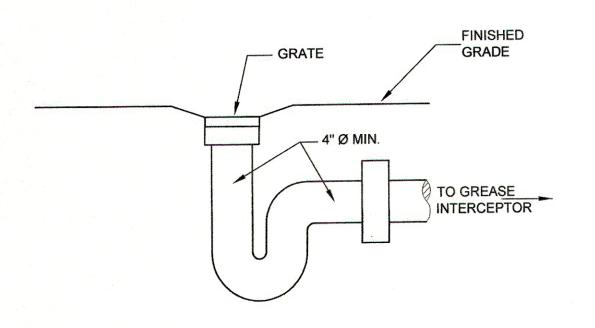
### CONCRETE CURB AND GUTTER











# 4" SANITARY SEWER DRAIN FOR REFUSE ENCLOSURE

(C-2.0)

### ANTHEA – 4<sup>TH</sup> AND GRANITE

ENGINEER'S CERTIFICATION (HYDROLOGY) FOR TEMPORARY CERTIFICATE OF OCCUPANCY

I, Dennis A. Lorenz, NMPE 9647, of the firm Lorenz Design & Consulting, LLC, hereby certify that this project has been graded and will drain in substantial compliance with and in accordance with the design intent of the approved plan, dated 09-12-2014.

The record information edited onto the original design document has been provided to me by Fierro & Company, Robert Fierro, PE & NMPLS No. 22909, as supplemental data to the original topographic survey, and is true and correct to the best of my knowledge and belief. This certification is submitted in support of a request for Temporary Certificate of Occupancy.

The following items must be completed before a Permanent C.O. is issued:

1. Landscaping improvements shall be modified to retain the First Flush volume per the Drainage Ordinance.

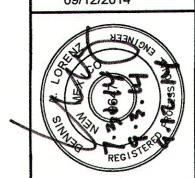
The record information presented hereon is not necessarily complete and is intended only to verify substantial compliance of the grading and drainage aspects of this project. Those relying on this record document are advised to obtain independent verification of its accuracy before using it for any other purpose.

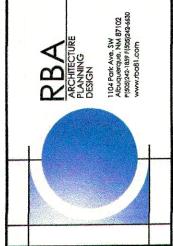




ANTHEA 4TH AND GRANIS GENERAL DETAIL PLAN ALBUQUERQUE, NM

REVISION DATE
09/03/2014
COA COMMENTS
09/12/2014





09/12/2014

SHEET NUMBER

DATE

C-2.0

#### DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 04/2009)

PROJECT TITLE: ANTHEA – 4 <sup>th</sup> at GRANITE	ANTHEA – 4 <sup>th</sup> at GRANITE NW		ZONE MAP: <u>J-14/D171</u>	
PROJECT TITLE: <u>ANTHEA – 4<sup>th</sup> at GRANITE</u> DRB#: <u>14-DRB-70196</u> EPC#: _	NA	WORK ORD	ER#: <u>NA</u>	
LEGAL DESCRIPTION: LOT 5A, BLOCK C, DUR LOT_2, BLOCK C, HOME	NA & ALEXAND	ER ADDN and		
CITY ADDRESS: 330 GRANITE NW	EOTEND & ONK	DENOI OT ADDIN_		
ENGINEERING FIRM: LORENZ DESIGN & CON ADDRESS: 2501 RIO GRANDE BLVD CITY, STATE: ALBUQUERQUE, NEW M	NW SUITE A_	PHONE:	888-6088	
OWNER: CONSTRUCT SOUTHWE ADDRESS: 333 RIO RANCHO BLVD CITY, STATE: RIO RANCHO, NEW ME  ARCHITECT: RICK BENNETT ARCHITE ADDRESS: 1104 PARK AVENUE SW CITY, STATE: ALBUQUERQUE, NEW M  SURVEYOR: FEIRRO & COMPANY	EXICO  EXICO	ZIP CODE: CONTACT: PHONE: ZIP CODE: _	87123 R. BENNETT 242-1859 87103	
SURVEYOR: FEIRRO & COMPANY ADDRESS: 2929 COORS NW CITY, STATE: ALBUQUERQUE, NM				
CONTRACTOR: CONSTRUCT SOUTHWE ADDRESS: 333 RIO RANCHO BLVD CITY, STATE: RIO RANCHO, NEW ME	NE_ XICO	PHONE:	BILL SMITH 891-3695 87123	
TYPE OF SUBMITTAL:  DRAINAGE REPORT  DRAINAGE PLAN 1st SUBMITTAL  DRAINAGE PLAN RESUBMITTAL  CONCEPTUAL G & D PLAN  GRADING PLAN  EROSION CONTROL PLAN  XX ENGINEER'S CERT (HYDROLOGY)  CLOMR/LOMR  TRAFFIC CIRCULATION LAYOUT  ENGINEER'S CERT (TCL)  ENGINEER'S CERT (DRB SITE PLAN)  OTHER (SPECIFY)	C G P W G	RELIMINARY PLAT . DEV. PLAN FOR S . DEV. FOR BLDG. ECTOR PLAN APPF NAL PLAT APPRO' DUNDATION PERM UILDING PERMIT A ERTIFICATE OF OO	RANTEE RELEASE APPROVAL SUB'D APPROVAL PERMIT APPROVAL ROVAL VAL IIT APPROVAL CCUPANCY (PERM) CCUPANCY (TEMP) PPROVAL PROVAL ROVAL ATION	
WAS A PRE-DESIGN CONFERENCE ATTENDED  YES  NO COPY PROVIDED	:			
DATE SUBMITTED: 8-28-2015	BY:	DENNIS A. L	ORENZ	

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, and scope to the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the following:

- Conceptual Grading and Drainage Plan: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans.
- **Drainage Plans**: Required for building permits, grading permits, paving permits and site plans less than five (5) acres. **Drainage Report**: Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more.