

I, Genevieve L. Donart, NMPE, of the firm Isaacson & Arfman, P.A., 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 11/13/2014. The record information edited onto the original design document has been obtained by a licensed surveyor as noted in the table below. I further certify that I have personally visited the project site on the date below 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 with the following exceptions.

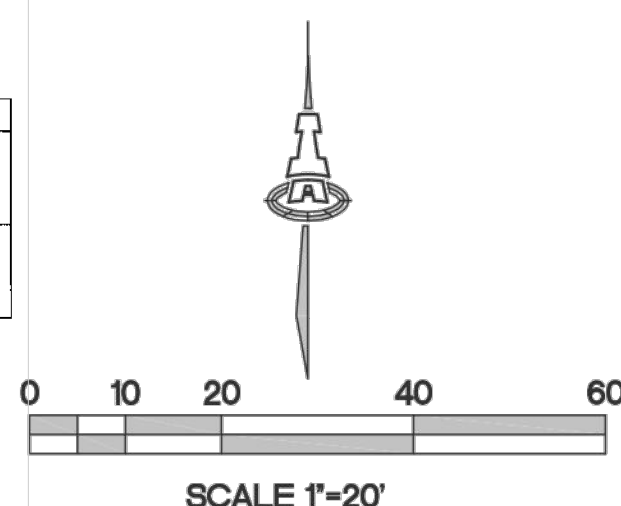
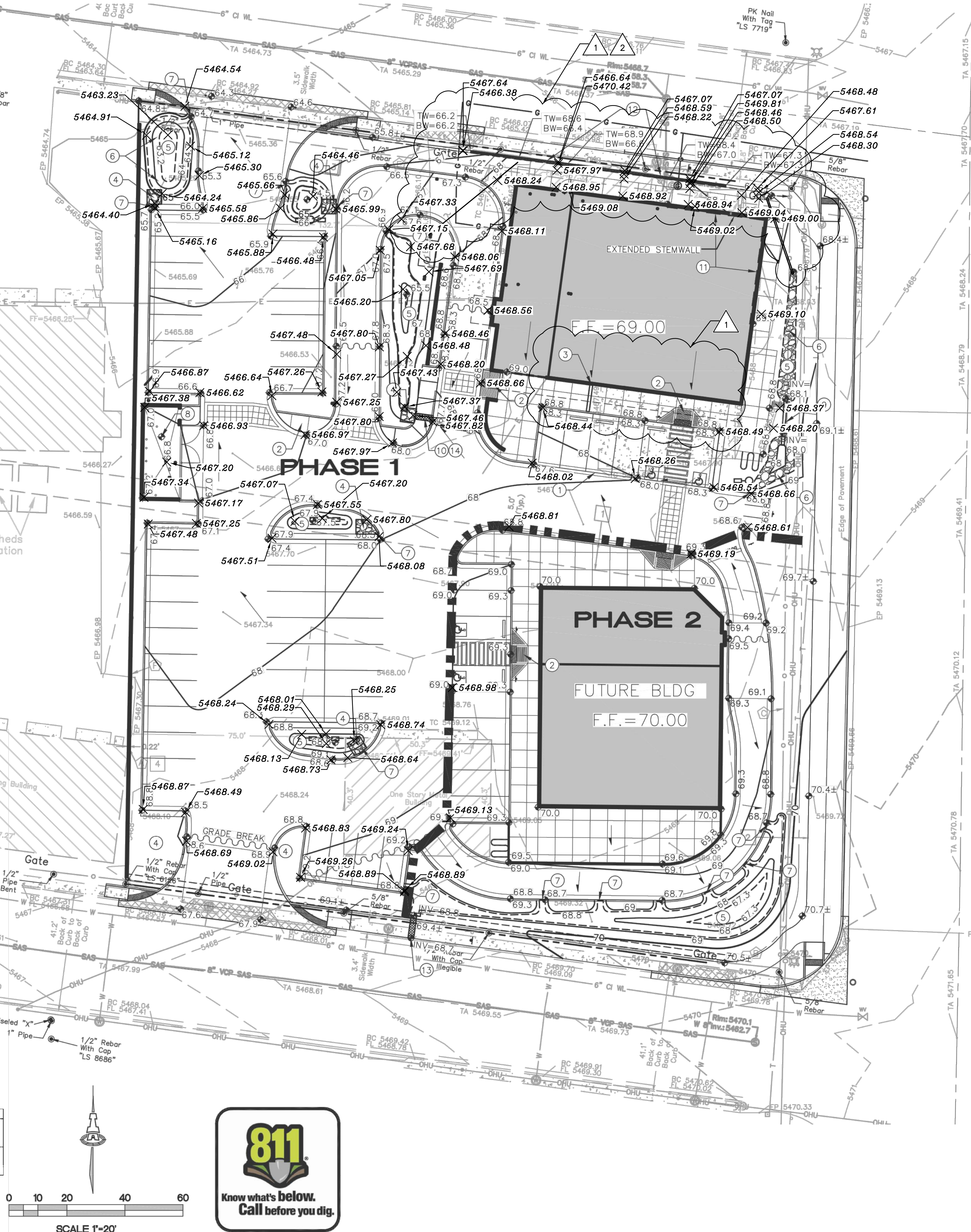
- PHASE 1:**
- Roof drains were directed to the back (north) of the building instead of the front (south). To accommodate this drainage, trench drains were placed across the sidewalk, a concrete swale was installed between the sidewalk and retaining wall. Water from this swale was captured in 3" pipes, and directed to two of the designed ponds.
  - Exterior doors were added along the north side of the building. The sidewalk was lifted, and the retaining wall extended to the east.

**PHASE 2:**

This certification is submitted in support of a request for Certificate of Occupancy for the appropriate phase.

The record information presented hereon is not necessarily complete and 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.

Phase	Date	Certifying Engineer	Surveyor of Record
1	08/24/15	Genevieve L. Donart	Russ Hugg NMPLS #8750, of the firm Surv-Tek, Inc.
2		NMPE#	



- HANDICAP RAMP PER ARCHITECTURAL SITE PLAN.
- TRENCH DRAIN THROUGH SIDEWALK PER DETAIL ON SHEET CG-501. ADJUST LOCATION AS NECESSARY TO MATCH ROOF DRAIN.
- 5'X5'X12" THICK FRACTURED FACE ROCK, AT DOWNSTREAM SIDE OF CURB CUT/SIDEWALK CULVERT. INSTALL OVER GEOTEX 501 NON-WOVEN GEO-TEXTILE. VARY ROCK SIZE FROM 4" TO 8" DIA. (6" MEDIAN.) TOP OF ROCK ELEVATIONS MUST MATCH PROPOSED GRADE TO CONVEY WATER AT DISCHARGE POINTS.
- WATER HARVESTING AREA TO TREAT "FIRST FLUSH". INSTALL PER GRADES SHOWN.
- 12" THICK FRACTURED FACE ROCK, ON SIDE SLOPES OF WATER HARVESTING POND OVER GEOTEX 501 NON-WOVEN GEO-TEXTILE. VARY ROCK SIZE FROM 4" TO 8" DIA. (6" MEDIAN.) TOP OF ROCK ELEVATIONS MUST MATCH PROPOSED GRADE TO CONVEY WATER AT DISCHARGE POINTS.
- 2' WIDE CURB OPENING PER DETAIL ON SHEET CG-501.
- GRADE CONCRETE DUMPSTER PAD TOWARDS DRAIN.
- 2-4" PVC PIPES THROUGH SIDEWALK PER DETAIL ON SHEET CG-501.
- 2' WIDE SIDEWALK CULVERT PER COA STD DWG #2236.
- EXTENDED STEMWALL.
- RETAINING WALL.
- 2' WIDE SIDEWALK CULVERT IN RIGHT-OF-WAY TO BE INSTALLED AND INSPECTED AS PART OF WORK ORDER PERMIT.
- SEE DETAIL "A" ON THIS SHEET.

## CALCULATIONS

**CALCULATIONS: Innova Plaza :**  
Based on Drainage Design Criteria for City of Albuquerque  
Section 22.2, DPM, Vol 2, dated Jan., 1993

**ON-SITE CALCULATIONS: 100-YEAR, 6-HOUR STORM**

AREA OF SITE: 62108.63 SF = 1.4 AC.

**HISTORIC FLOWS:**

	Treatment	%
Area A	0	0%
Area B	0	0%
Area C	46581.473	75%
Area D	15527.158	25%
TOTAL	62108.63	100%

**DEVELOPED FLOWS:**

	Treatment	%	EXCESS PRECIP:
Area A	0	0%	Precip. Zon 3
Area B	3105	5%	E <sub>A</sub> = 0.66
Area C	6211	10%	E <sub>B</sub> = 0.92
Area D	52792	85%	E <sub>C</sub> = 1.29
TOTAL	62108.63	100%	E <sub>D</sub> = 2.36

On-Site Weighted Excess Precipitation (100-Year, 6-Hour Storm)

$$\text{Weighted E} = \frac{E_A A_A + E_B A_B + E_C A_C + E_D A_D}{A_A + A_B + A_C + A_D}$$

$$\text{Weighted E} = \frac{0.66 \times 3105 + 0.92 \times 6211 + 1.29 \times 52792 + 2.36 \times 0}{62108.63} = 1.56 \text{ in.}$$

$$\text{On-Site Volume of Runoff: } V_{360} = E^* A / 12$$

$$\text{On-Site Peak Discharge Rate: } Q_p = Q_{pA} A_A + Q_{pB} A_B + Q_{pC} A_C + Q_{pD} A_D / 43,560$$

$$\text{For Precipitation } 7.3$$

$$Q_{pA} = 1.87, Q_{pB} = 3.45$$

$$Q_{pC} = 2.60, Q_{pD} = 5.02$$

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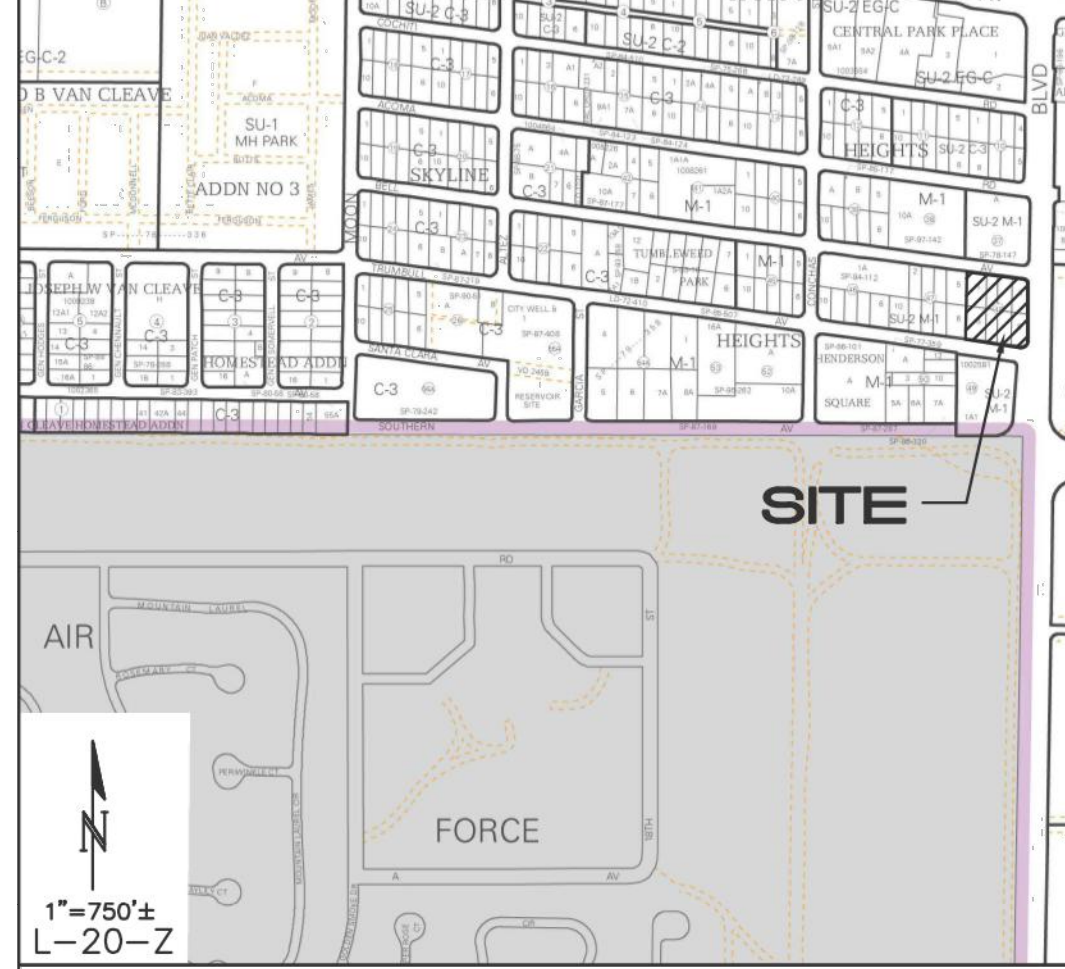
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## PROJECT DATA

**LEGAL DESCRIPTION:** LOT 1A, BLOCK 48, SKYLINE HEIGHTS SUBDIVISION

**SITE AREA:** 1.43 ACRES

**FLOOD ZONE:** THIS SITE IS OUTSIDE THE 100-YEAR FLOODPLAIN PER FEMA FIRM PANEL NO. 35001C00358H DATED 08/16/2012.

**ENGINEER:** GENEVIEVE DONART, ISAACSON & ARFMAN, P.A., 128 MONROE ST NE, ABO, NM 87108, PHONE: (505) 268-8828

**SURVEYOR:** CARTESIAN SURVEYS, INC., P.O. BOX 44414, RIO RANCHO, NM 87174, PHONE: (505) 896-3050

**BENCHMARK:** ACS MONUMENT "4-L22" ELEV=5586.425 (NAVD 1988)

**EXISTING CONDITIONS:** THE EXISTING SITE WAS FORMERLY A SCHOOL BUS YARD. THERE IS SOME CONCRETE REMAINING FROM OLD BUILDING FOUNDATIONS. THE SITE SLOPES FROM THE SOUTHEAST TO THE NORTHWEST AT APPROXIMATELY 1.5%.

**ON-SITE STORM WATER OF 5.5 CFS DISCHARGES TO BELL AVE OVER THE SIDEWALK. THE ADJACENT HALF OF EUBANK BLVD DRAINS ONTO THE PROPERTY.**

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# CITY OF ALBUQUERQUE



August 28, 2015

Genny Donart, P.E.  
Isaacson & Arfman, P.A.  
128 Monroe St NE  
Albuquerque, New Mexico 87108

RE: **Innova Plaza**  
**Grading and Drainage Plan**  
**Permanent CO - Accepted**  
**Engineers Stamp Date 11/13/14 (L20D067)**  
**Certification Date 8/26/15**

Dear Ms. Donart,

Based upon the information provided in your submittal received 8/26/15, the above referenced Certification is acceptable for the release of a permanent Certificate of Occupancy by Hydrology.

PO Box 1293

If you have any questions, please contact me at 924-3695 or Totten Elliott 924-3982.

Albuquerque

New Mexico 87103

[www.cabq.gov](http://www.cabq.gov)

Sincerely,

Rita Harmon, P.E.  
Senior Engineer, Hydrology  
Planning Department

TE/RH  
C: File