

CITY OF ALBUQUERQUE



March 16, 2017

David Aube, PE
Hartman + Majewski Design Group
120 Vassar Dr. SE Suite 100
Albuquerque, NM 87106

**Re: GAHP Casa Feliz
512 San Pablo Street SE
Request Permanent C.O. - Accepted
Engineer's Stamp dated: 12-18-15 (L19D073C)
Certification dated: 3-16-17**

Dear Mr. Aube,

Based on the Certification received 2/15/2017, the site is acceptable for release of Certificate of Occupancy by Hydrology.

If you have any questions, you can contact me at 924-3999 or Totten Elliott at 924-3982.

PO Box 1293

Albuquerque

New Mexico 87105

Sincerely,

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

www.cabq.gov

TE/SB

C: email: Cordova, Camille C.; Miranda, Rachel; Sandoval, Darlene M.;
Blocker Lois

I. PURPOSE AND SCOPE

THE PURPOSE OF THIS DRAINAGE PLAN IS TO PRESENT THE EXISTING AND PROPOSED DRAINAGE MANAGEMENT PLANS FOR THE GREATER ALBUQUERQUE HOUSING PROJECT TITLED CASA FELIZ.

II. SITE DESCRIPTION AND HISTORY

THE PROJECT CONTAINS MANY SCATTERED SITES, LOCATED AROUND A PREVIOUS PROJECT BY GREATER ALBUQUERQUO HOUSING AUTHORITY CALLED PLAZA FELIZ. THE SITES ARE LOCATED ON ESPANOLA STREET SE, SAN PABLO STREET SE, GROVE STREET SE, BELL AVENUE SE, AND TRUMBELL AVENUE SE.

THIS AREA WAS AT ONE TIME FULLY DEVELOPED WITH A FOURPLEX ON EACH OF THE LOTS BEING REDEVELOPED BY THIS PROJECT. THE LAND WAS ORIGINALLY SUBDIVIDED IN 1944 AND WAS FULLY DEVELOPED PRIOR TO THE IMPLEMENTATION OF THE DRAINAGE ORDINANCE RESTRICTING FLOW FROM THE SITES INTO THE PUBLIC WAY. DEMOLITION OF THESE PRIOR FOURPLEXES WAS COMPLETED BY 2010 WITH THE EXCEPTION OF ONE LOT THAT STILL NEEDS TO HAVE THE BUILDING REMOVED FOR THIS PROJECT.

THE SITES WERE ALL FREE DISCHARGE INTO THE STREET, OR IN SOME CASES INTO THE ADJACENT PROPERTIES. EACH OF THE SITES WERE ANALYZED AS TYPE C SOIL TO ACCOUNT FOR THE PREVIOUSLY COMPACTED SOIL CONDITIONS. THIS INCLUDES THE LOT WITH THE EXISTING BUILDING TO BE REMOVED.

III. COMPUTATIONAL PROCEDURES

HYDROLOGIC ANALYSIS WAS PERFORMED UTILIZING THE DESIGN CRITERIA BASED ON SECTION 22.2, HYDROLOGY, OF THE DEVELOPMENT PROCESS MANUAL.

IV. PRECIPITATION

THE STORM EVENT USED FOR THE FOLLOWING CALCULATIONS IS THE 100YR-6HR STORM. THE PROJECT SITE IS LOCATED IN ZONE 3.

V. EXISTING DRAINAGE CONDITIONS (REFER TO CD EX1)

CURRENTLY THE SITES FLOW FROM EAST TO WEST AND TOWARD BELL AVENUE FROM BOTH NORTH AND SOUTH. WITH THE PRIOR DEVELOPMENT, MANY OF THE LOTS CREATED CROSS LOT DRAINAGE PATTTURNS THAT WILL BE CORRECTED WITH THIS PROJECT. HISTORICALLY THE SITES HAD BEEN DEVELOPED AS FOURPLEX UNITS WITH APPROXIMATELY 6 PARKING SPACES ON SITE. THE SITES CONTAINED MINIMAL LANDSCAPING AND WERE LIKELY 85% IMPERVIOUS (USING SURROUNDING UNITS AS A TYPICAL DEVELOPMENT DENSITY).

USING THE 85% D AND 15% C SOIL TREATMENTS THE TYPCIAL 50X135 LOT (6750 SF) CREATES A PEAK RUNOFF RATE OF 0.74 CFS AND AN EXCESS RUNOFF VOLUME OF 0.0284 ACRE FEET DURING THE 100 YEAR 6 HOUR EVENT.

TO BE MORE CONSERVATIVE, THE SITES WERE ANALYZED AS 100% C SOIL AS REQUIRED FOR SOIL COMPACTED BY HUMAN ACTIVITY. THE REDUCES THE PEAK RUNOFF RATE TO 0.53 CFS AND AN EXCESS RUNOFF VOLUME OF 0.0167 ACRE FEET DURING THE 100 YEAR 6 HOUR EVENT.

VI. PROPOSED DRAINAGE CONDITIONS

THE SCATTERED SITE HAVE BEEN ANALYZED INDIVIDUALLY. BUILDINGS HAVE BEEN ASSIGNED LETTERS AND THIS REPORT IS ORGANIZED TO FOLLOW THAT SAME ORDER.

BUILDING/SITE A IS LOCATED IN A SINGLE LOT THAT WILL HAVE A PORTION OF TRUMBELL VACATED AND IS THEREFORE SLIGHTLY LARGER THAN THE TYPICAL LOT AND CONTAINS 7425 SF. THIS SITE CURRENTLY CONTAINS AN APARTMENT BUILDING THAT WILL BE DEMOLISHED. THE SITE IS BROKEN UP INTO TWO SUB BASINS, THE FIRST FLOWING WEST TOWARD SAN PABLO AND THE OTHER TO THE EAST AND INTO TRUMBELL ON THE SOUTH. THE COMBINED FLOW RATES FOR THIS SITE 0.70 CFS WHICH IS LESS THAN THE ACTUAL CURRENT CONDITIONS OF 0.82 SF. THESE NUMBERS WERE ADJUSTED BECAUSE THE SITE CONTAINS THE 7425 SF IN LIEU OF THE TYPCIAL 6750 SF. THE INCLUSION OF SHALLOW PONDING AREAS (4' DEEP) THAT HARVEST 113 OF THE FIRST FLUSH VOLUME (91.6 CF REQUIRED) WILL FURTHER REDUCE THE PEAK RUNOFF.

BUILDING/SITE B CONTAINS 7 PARCELS AND WOULD HAVE CREATED A PEAK RUNOFF IN THE PREVIOUSLY DEVELOPED CONDITION OF 5.18 CFS (7 * 0.74 CFS). THE PROPOSED DEVELOPMENT WILL CREATE A PEAK RUNOFF OF 4.32 CSF AND AN EXCESS RUNOFF VOLUME OF 0.1520 ACRE FEET. THE SHALLOW PONDS SURROUNDING THE BUILDING WILL HARVEST 576 CF WHICH EXCEEDS THE FIRST FLUSH REQUIRED VOLUME OF 305.6 CF.

BUILDING/SITE C AND D CONTAINS 5 PARCELS AND WOULD HAVE CREATED A PEAK RUNOFF IN THE PREVIOUSLY DEVELOPED CONDITION OF 3.71 CFS (5 * 0.74 CFS). THE PROPOSED DEVELOPMENT WILL CREATE A PEAK RUNOFF OF 3.28 CSF AND AN EXCESS RUNOFF VOLUME OF 0.1156 ACRE FEET. THE SHALLOW PONDS SURROUNDING THE BUILDING WILL HARVEST 454 CF WHICH EXCEEDS THE FIRST FLUSH REQUIRED VOLUME OF 271.3 CF.

BUILDING/SITE E, F AND G CONTAINS 7 PARCELS AND WOULD HAVE CREATED A PEAK RUNOFF IN THE PREVIOUSLY DEVELOPED CONDITION OF 5.19 CFS (7 * 0.74 CFS). THE PROPOSED DEVELOPMENT WILL CREATE A PEAK RUNOFF OF 4.35 CSF AND AN EXCESS RUNOFF VOLUME OF 0.1527 ACRE FEET. THE SHALLOW PONDS SURROUNDING THE BUILDING WILL HARVEST 393 CF WHICH EXCEEDS THE FIRST FLUSH REQUIRED VOLUME OF 263.0 CF.

EXCESS RUNOFF FROM THESE SITES CAN DISCHARGE INTO ESPANOLA THROUGH THE DRIVEWAY OPENING OR THROUGH A SMALL RUNDOWN CHANNEL LOCATED ON THE SOUTH SIDE OF BUILDING G AND THROUGH A SIDEWALK CULVERT UNDER THE PUBLIC SIDEWALK.

BUILDING/SITE H CONTAINS 3 PARCELS AND WOULD HAVE CREATED A PEAK RUNOFF IN THE PREVIOUSLY DEVELOPED CONDITION OF 2.22 CFS (3 * 0.74 CFS). THE PROPOSED DEVELOPMENT WILL CREATE A PEAK RUNOFF OF 1.81 CSF AND AN EXCESS RUNOFF VOLUME OF 0.0629 ACRE FEET. THE SHALLOW PONDS SURROUNDING THE BUILDING WILL HARVEST 315 CF WHICH EXCEEDS THE FIRST FLUSH REQUIRED VOLUME OF 203.8 CF.

EXCESS RUNOFF FROM THESE SITES CAN DISCHARGE INTO ESPANOLA THROUGH THE DRIVEWAY OPENING OR THROUGH A SMALL RUNDOWN CHANNEL LOCATED ON THE SOUTH SIDE OF BUILDING H AND THROUGH A SIDEWALK CULVERT UNDER THE PUBLIC SIDEWALK.

BUILDING/SITE I CONTAINS 4 PARCELS AND WOULD HAVE CREATED A PEAK RUNOFF IN THE PREVIOUSLY DEVELOPED CONDITION OF 2.97 CFS (4 * 0.74 CFS). THE PROPOSED DEVELOPMENT WILL CREATE A PEAK RUNOFF OF 2.88 CSF AND AN EXCESS RUNOFF VOLUME OF 0.1089 ACRE FEET. THE SHALLOW PONDS SURROUNDING THE BUILDING WILL HARVEST 218.3 CF WHICH EXCEEDS THE FIRST FLUSH REQUIRED VOLUME OF 117.1 CF. THIS SITE DRAINS OUT THE SOUTHERN DRIVEWAY INTO BELL AVENUE, SE.

BUILDING/SITE J CONTAINS 4 PARCELS AND WOULD HAVE CREATED A PEAK RUNOFF IN THE PREVIOUSLY DEVELOPED CONDITION OF 3.03 CFS (SLIGHTLY LARGER DUE TO VACATED ROW ON BELL AVENUE SE THAT IS INCORPORATED INTO THE SITE). THE PROPOSED DEVELOPMENT WILL CREATE A PEAK RUNOFF OF 2.48 CSF AND AN EXCESS RUNOFF VOLUME OF 0.0848 ACRE FEET. THE SHALLOW PONDS SURROUNDING THE BUILDING WILL HARVEST 308 CF WHICH EXCEEDS THE FIRST FLUSH REQUIRED VOLUME OF 151 CF. THIS SITE DRAINS OUT THE NORTHERN DRIVEWAY INTO BELL AVENUE, SE.

BUILDING/SITE K CONTAINS 3 PARCELS AND WOULD HAVE CREATED A PEAK RUNOFF IN THE PREVIOUSLY DEVELOPED CONDITION OF 2.22 CFS (3 * 0.74 CFS). THE PROPOSED DEVELOPMENT WILL CREATE A PEAK RUNOFF OF 1.81 CSF AND AN EXCESS RUNOFF VOLUME OF 0.0629 ACRE FEET. THE SHALLOW PONDS SURROUNDING THE BUILDING WILL HARVEST 338CF WHICH EXCEEDS THE FIRST FLUSH REQUIRED VOLUME OF 102 CF.

BUILDING/SITE L IS LOCATED IN A SINGLE LOT THAT WILL HAVE A PORTION OF TRUMBELL VACATED AND IS THEREFORE SLIGHTLY LARGER THAN THE TYPICAL LOT AND CONTAINS 7425 SF. THE COMBINED FLOW RATES FOR THIS SITE 0.70 CFS WHICH IS LESS THAN THE ACTUAL CURRENT CONDITIONS OF 0.81 SF. THE INCLUSION OF SHALLOW PONDING AREAS (4' DEEP) THAT HARVEST 116 OF THE FIRST FLUSH VOLUME (91.6 CF REQUIRED) WILL FURTHER REDUCE THE PEAK RUNOFF.

VII. CONCLUSIONS

EACH INDIVIDUAL SITE HAS BEEN DESIGNED TO HARVEST MORE THAN IS REQUIRED TO MEET THE MSSSS PERMIT REQUIREMENTS FOR FIRST FLUSH VOLUMES. SITES HAVE BEEN DESIGNED TO DIRECT EXCESS RUNOFF TO THE PUBLIC STREET'S WHERE PREVIOUS DEVELOPMENTS DISCHARGED IN A CROSS LOT CONFIGURATION.

EACH LOT IS STILL ALLOWING FOR FREE DISCHARGE FOR RUNOFF EXCEEDING THAT CONTAINED IN THE MSSSS REQUIREMENTS DESCRIBED ABOVE. THIS IS CONSISTENT WITH A REDUCTION FROM THE HISTORIC DISCHARGE RATES FROM THE PREVIOUSLY DEVELOPED LOTS.

BECAUSE THERE IS A REDUCTION IN FLOW RATES AND EXCESS RUNOFF IS DIRECTED TOWARD THE PUBLIC STREET INSTEAD OF CROSS LOT DRAINAGE, THERE SHOULD BE BENEFITS TO THE DOWNSTREAM LOTS.

Drainage Summary

Project: Casa Feliz
Project Number: 2491
Date: 10/12/15
By: Dave A

Site Location

3 Per Table A-1 COA DPM Section 22.2

Existing summary

Basin Name	EXA	EX B	EX C & D	EX E	EX F & G	EX H	EX I	EX J	EX K	EX L	Typ 85% D	Typ 100%C	
Area (sf)	7425	47202	33742	13504	33742	20250	26999	27556	20250	7425	6750	6750	
Area (acres)	0.170	1.084	0.775	0.310	0.775	0.465	0.620	0.633	0.465	0.170	0.155	0.155	
%A Land treatment	0	0	0	0	0	0	0	0	0	0	0	0	
%B Land treatment	0	0	0	0	0	0	0	0	0	0	0	0	
%C Land treatment	15	15	15	15	15	15	15	15	15	15	100	100	
%D Land treatment	85	85	85	85	85	85	85	85	85	85	85	0	
Soil Treatment (acres)													
Area "A"	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Area "B"	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Area "C"	0.03	0.16	0.12	0.05	0.12	0.07	0.09	0.09	0.07	0.03	0.02	0.15	
Area "D"	0.14	0.92	0.66	0.26	0.66	0.40	0.53	0.54	0.40	0.14	0.13	0.00	
Excess Runoff (acre-feet)													
100yr. 6hr.	0.0312	0.1986	0.1420	0.0568	0.1420	0.0852	0.1136	0.1160	0.0852	0.0312	acre-ft.	0.0284	0.0167
10yr. 6hr.	0.0194	0.1235	0.0883	0.0353	0.0883	0.0530	0.0707	0.0721	0.0530	0.0194	acre-ft.	0.0177	0.0080
2yr. 6hr.	0.0112	0.0710	0.0508	0.0203	0.0508	0.0305	0.0406	0.0415	0.0305	0.0112	acre-ft.	0.0102	0.0026
100yr. 24hr.	0.0373	0.2370	0.1694	0.0678	0.1694	0.1017	0.1356	0.1384	0.1017	0.0373	acre-ft.	0.0339	0.0167
Peak Discharge (cfs)													
100 yr.	0.82	5.18	3.71	1.48	3.71	2.22	2.97	3.03	2.22	0.82	cfs	0.74	0.53
10yr.	0.54	3.45	2.46	0.99	2.46	1.48	1.97	2.01	1.48	0.54	cfs	0.49	0.31
2yr.	0.32	2.01	1.43	0.57	1.43	0.86	1.15	1.17	0.86	0.32	cfs	0.29	0.12

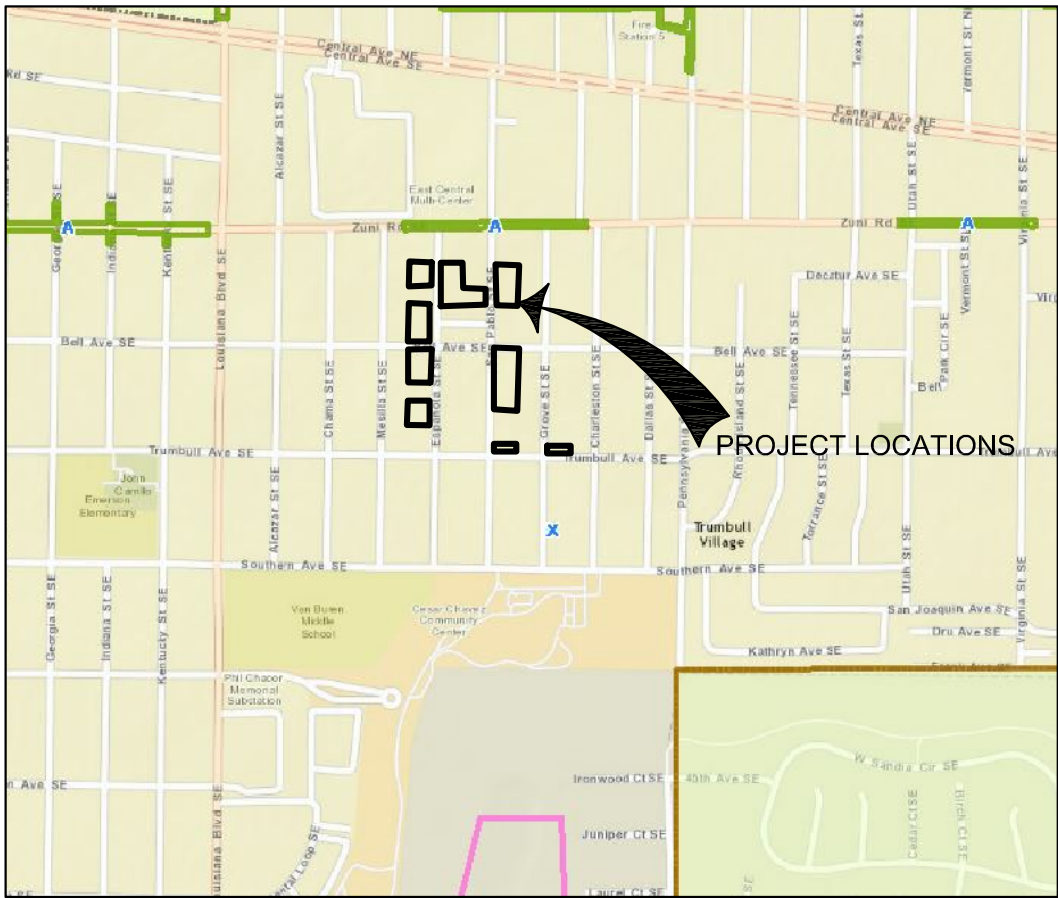
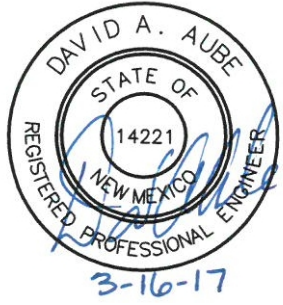
Proposed summary

Basin Name	Area (sf)	Pro A1	Pro A2	Pro B1	Pro B2	Pro C1	Pro C2	Pro D1	Pro E1	Pro F1	Pro G1	Pro H1	Pro H2	Pro I1	Pro I2	
Area (acres)		0.048	0.122	0.297	0.787	0.104	0.590	0.104	0.171	0.104	0.705	0.104	0.144	0.321	0.075	0.077
%A Land treatment		10	0	15	15	10		10	50	10		10	25	10	10	
%B Land treatment		25	65	25	50	25	65	25	15	25	65	25	60	20	65	
%C Land treatment		65	35	60	35	65	35	65	35	65	35	65	50	30	70	35
Soil Treatment (acres)																
Area "A"		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Area "B"		0.00	0.00	0.04	0.12	0.01	0.00	0.01	0.09	0.01	0.00	0.01	0.04	0.03	0.01	0.00
Area "C"		0.01	0.08	0.07	0.39	0.03	0.38	0.03	0.03	0.03	0.46	0.03	0.04	0.19	0.01	0.05
Area "D"		0.03	0.04	0.18	0.28	0.07	0.21	0.07	0.06	0.07	0.25	0.07	0.07	0.10	0.05	0.03
Excess Runoff (acre-feet)																
100yr. 6hr.		0.0078	0.0169	0.0465	0.1055	0.0169	0.0818	0.0169	0.0211	0.0169	0.0978	0.0169	0.0208	0.0421	0.0125	0.0106
100yr. 24hr.		0.0047	0.0094	0.0275	0.0583	0.0101	0.0456	0.0101	0.0114	0.0101	0.0545	0.0101	0.0119	0.0229	0.0075	0.0059
2yr. 6hr.		0.0026	0.0045	0.0147	0.0276	0.0055	0.0217	0.0055	0.0053	0.0055	0.0259	0.0055	0.0061	0.0105	0.0042	0.0028
100yr. 24hr.		0.0062	0.0187	0.0539	0.1169	0.0197	0.0904	0.0197	0.0236	0.0197	0.1081	0.0197	0.0238	0.0461	0.0147	0.0118
Peak Discharge (cfs)																
100 yr.		0.21	0.49	1.27	3.05	0.46	2.36	0.46	0.61	0.46	2.82	0.46	0.58	1.23	0.33	0.31
10yr.		0.14	0.30	0.81	1.86	0.29	1.47	0.29	0.36	0.29	1.75	0.29	0.36	0.75	0.22	0.19
2yr.		0.07	0.15	0.43	0.89	0.16	0.72	0.16	0.16	0.16	0.86	0.16	0.18	0.35	0.12	0.09
Roof Areas		1615	1615	5394	5394	1643	6296	1643	1355	1643	4641	1643	3598	3598	1367	0
First Flush Ponding Volume (cf)		45.8	45.8	152.8	152.8	46.6	178.1	46.6	38.4	46.6	131.5	46.6	101.9	101.9	38.7	0.0
First Flush Acre Feet		0.0011	0.0011	0.0035	0.0035	0.0011	0.0041	0.0011	0.0009	0.0011	0.0030	0.0011	0.0023	0.0023	0.0009	0.0000

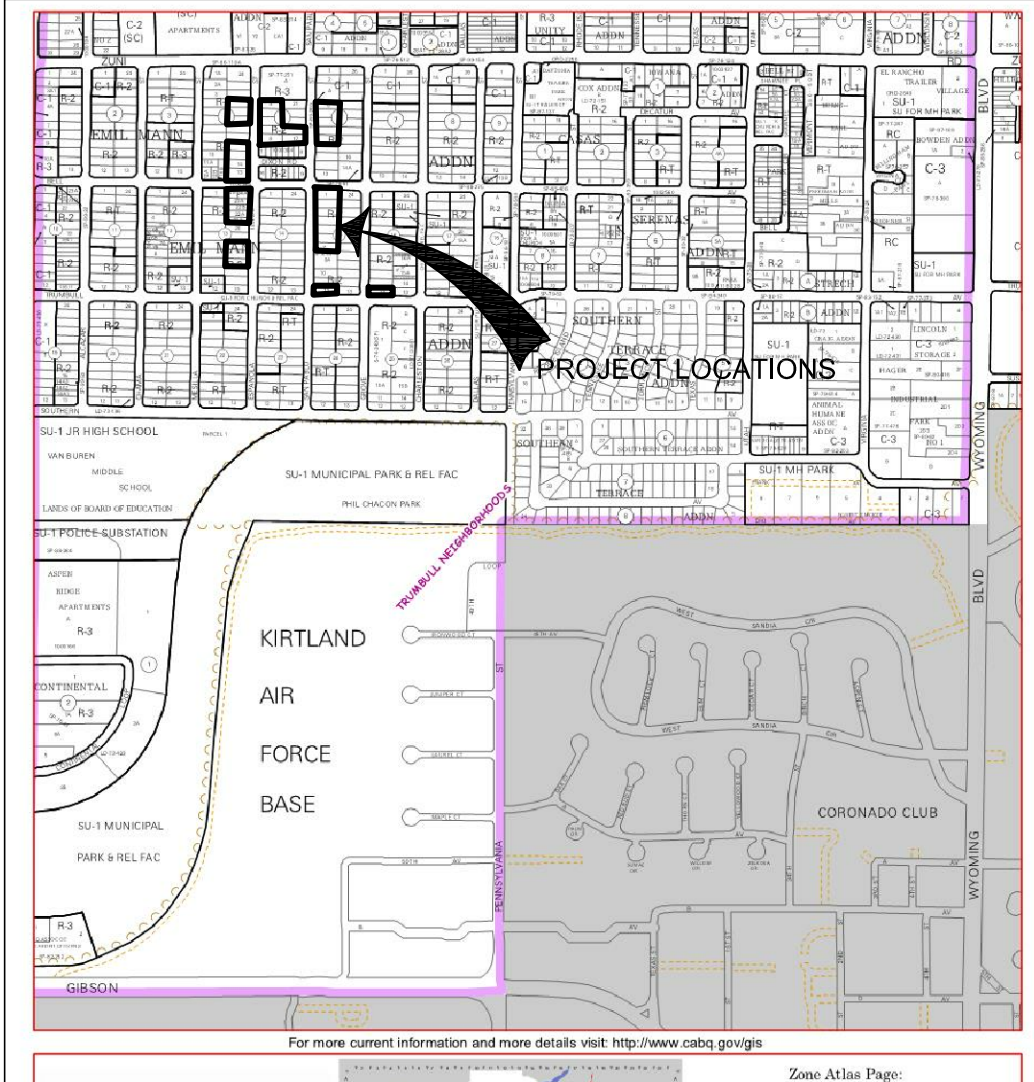
Drainage Certification (L19D073C, DRB#1010674)

I, David A Aube. NMPE 14221, of the firm The Hartman + Majewski Design Group, Inc, hereby certify that portion of the project (Building B located at 512 San Pablo Street SE) is in substantial compliance with and in accordance with the design intent of the Grading and Drainage plan approved plan dated 12-18-15.. The record information that has been edited onto the original design documents where obtained by Community sciences Corporation on February 2, 2017. I further certify that I have personally visited the project site on February 08, 2017 and have determined by visual inspection that the actual site conditions shown on this plan to be true and correct to the best of my knowledge and belief. This certification is submitted in support of a request for Permanent Certificate of Occupancy for Building B located at 518 San Pablo Street, SE.

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



A4 FIMA FLOOD MAP SCALE: NOT TO SCALE



A4 L-19-Z ZONE ATLAS PAGE SCALE: NOT TO SCALE

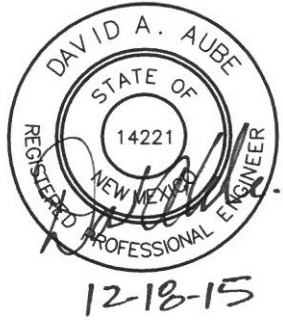


THE HARTMAN + MAJEWSKI
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Architects • Engineers • Interior Design
Planners • Urban Designers • LEED®

120 Vassar Dr SE Suite 100
Albuquerque New Mexico 87106
T 505 242 6880 • F 505 242 6881

CONSULTANT

STAMP



100% CONSTRUCTION DOCUMENTS

PROJECT NAME
CASA FELIZ

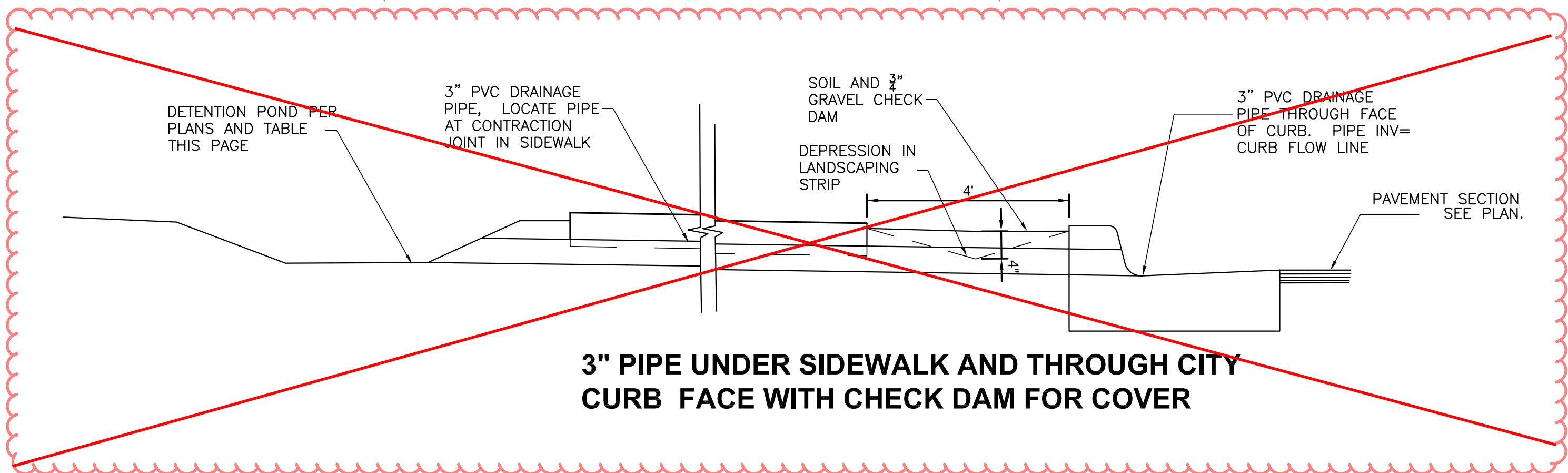
441 ESPANOLA STREET SE,
ALBUQUERQUE, NEW MEXICO 87108

GREATER ALBUQUERQUE
HOUSING PATRTRNSHIP

REVISIONS

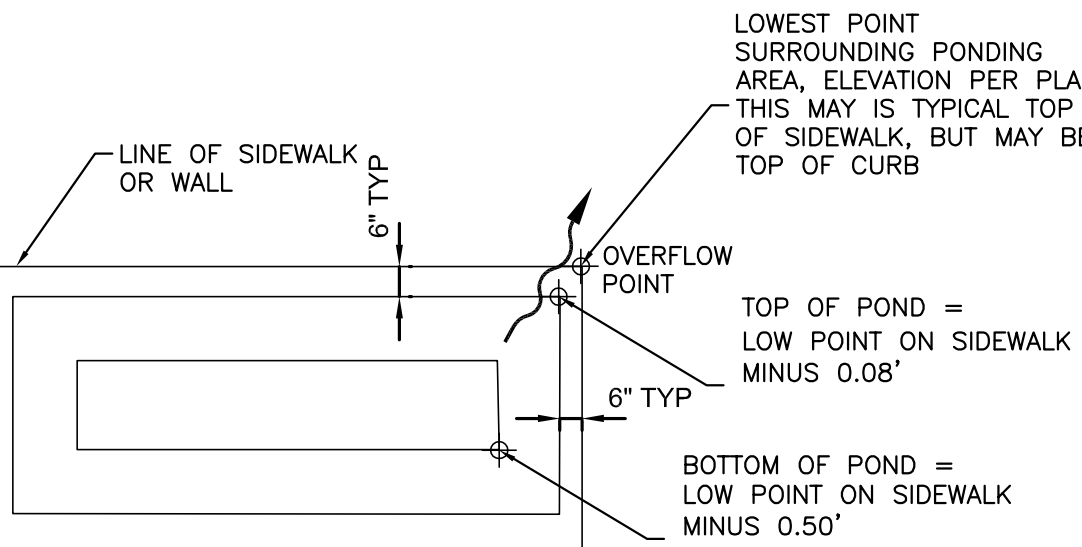
NO.	DATE	DESCRIPTION
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This detail requirement was removed after release of the building permit. Please refer to the email correspondence with City of Albuquerque Hydrology Staff dated May 3, 2016 attached with this submittal.



DRAINAGE PLAN GENERAL NOTES

- SEE SHEET CG001 FOR COMPLETE LIST OF GENERAL NOTES AND SYMBOL/LINETYPE LEGEND THAT APPLY TO ALL SHEETS.
- SEE SHEET CD-202 FOR 3" PVC DRAINAGE PIPES THROUGH SIDEWALKS AND UNDER SIDEWALKS THROUGH CITY CURB FACE.



TYPICAL POND DETAIL

NOT TO SCALE

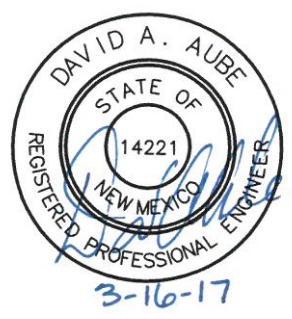
BUILDING B				As-Built
POND	LOWEST POINT ON CURB OR TSW	TOP ELEV	BOTTOM ELEV	BOTTOM ELEV
A	5348.54	5348.46	5348.04	47.93
B	5348.35	5348.27	5347.85	47.53
C	5348.05	5347.97	5347.55	47.07
D	5347.72	5347.64	5347.22	46.85
E	5347.57	5347.49	5347.07	46.75
F	5347.25	5347.17	5346.75	46.53
G	5347.21	5347.13	5346.71	46.84
H	5347.03	5346.95	5346.53	46.56
I	5346.97	5346.89	5346.47	46.38
J	5346.84	5346.76	5346.34	46.21
K	5346.79	5346.71	5346.29	46.38
L	5346.70	5346.62	5346.20	46.11
M	5346.67	5346.59	5346.17	45.98
N	5346.63	5346.55	5346.13	46.12
O	5346.60	5346.52	5346.10	45.86
P	5346.56	5346.48	5346.06	46.02
Q	5346.51	5346.43	5346.01	45.99

This pond eliminated.

Drainage Certification (L19D073C, DRB#1010674)

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dg
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Albuquerque New Mexico 87106
T 505 242 6880 • F 505 242 6881
CONSULTANT

STAMP



100% CONSTRUCTION DOCUMENTS

PROJECT NAME
CASA FELIZ

441 ESPANOLA STREET SE,
ALBUQUERQUE, NEW MEXICO 87108

GREATER ALBUQUERQUE HOUSING PATRNTNSHIP

REVISIONS

NO.	DATE	DESCRIPTION

Copyright: Design Group

Drawn by: DAA
Checked by: DAA
Date: OCTOBER 19, 2015
Project number: 2491

SHEET TITLE

ENLARGED
SITE DRAINAGE PLAN
NORTHERN PART OF
BUILDING B

SHEET NUMBER

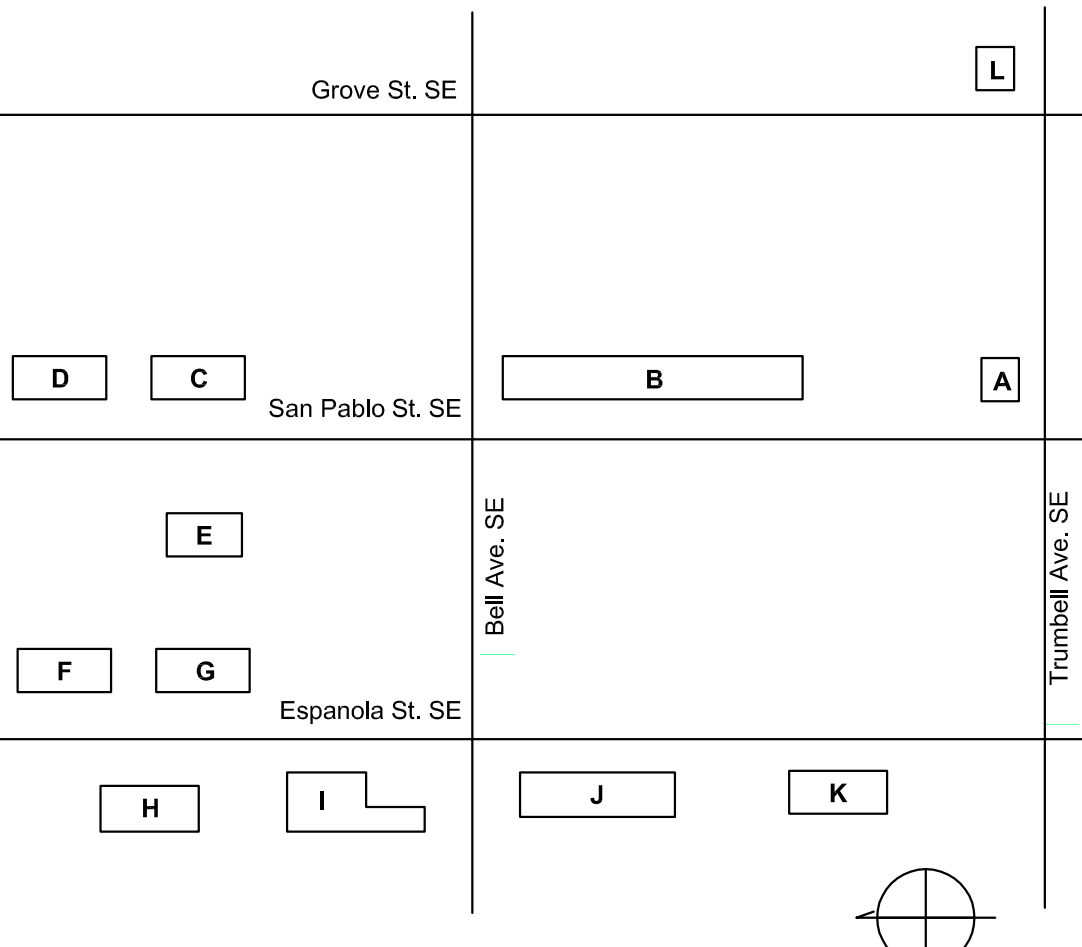
CD-203

BELL AVENUE S.E.

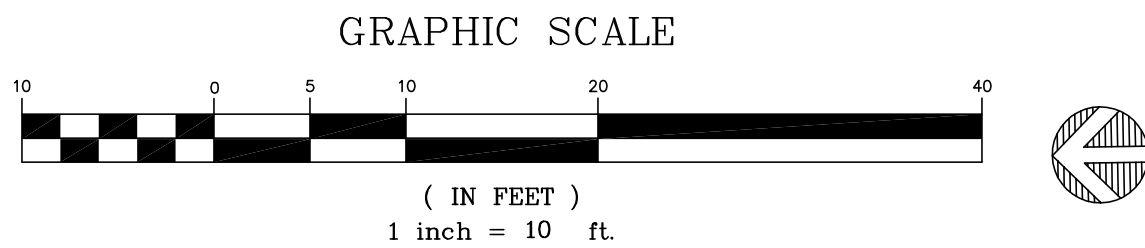
SAN PABLO STREET S.E.

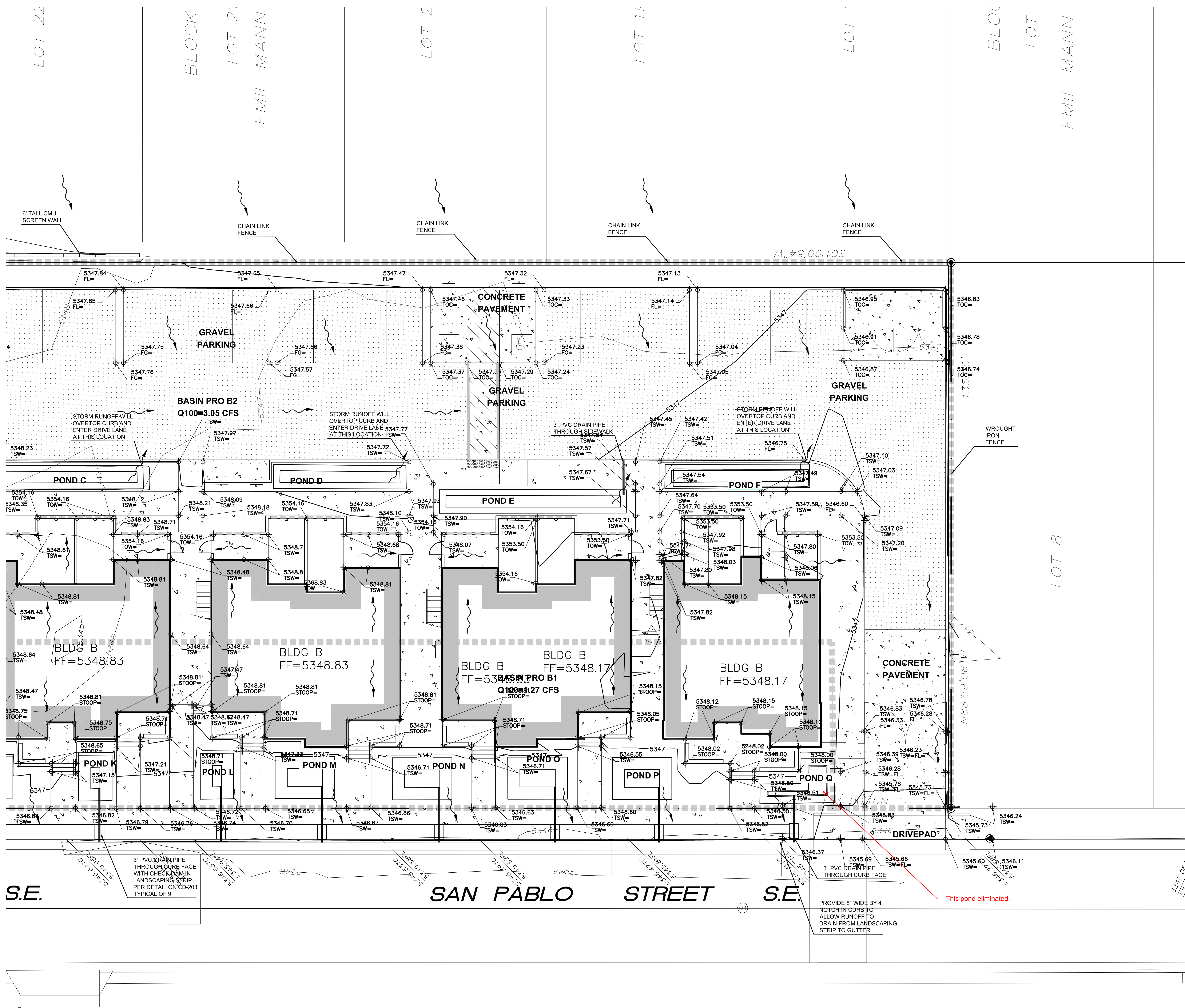
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KEY PLAN

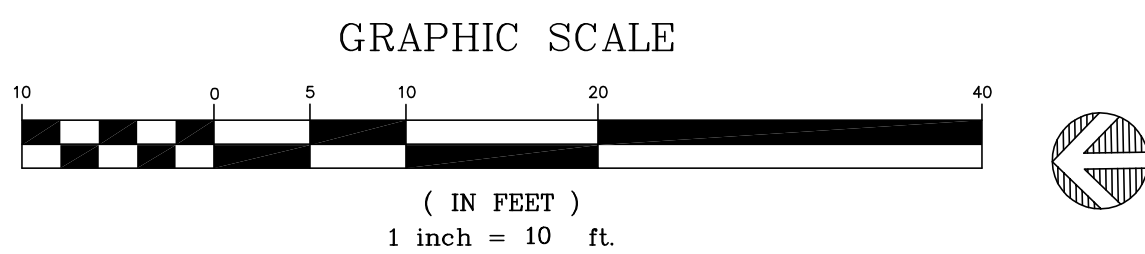


A1 ENLARGED SITE DRAINAGE PLAN - BUILDING B



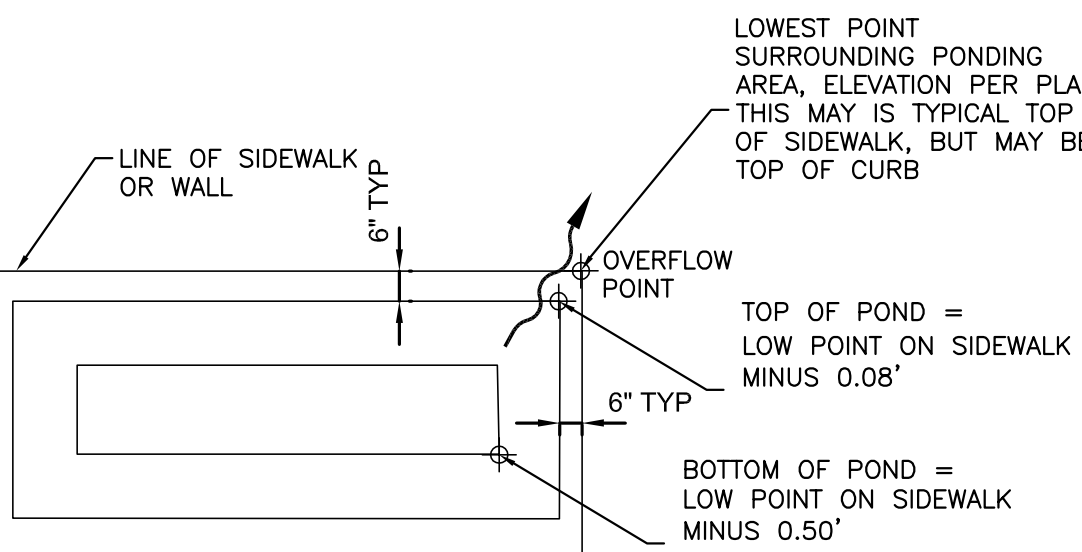


A1 ENLARGED SITE DRAINAGE PLAN - BUILDING B



DRAINAGE PLAN GENERAL NOTES

- SEE SHEET CG001 FOR COMPLETE LIST OF GENERAL NOTES AND SYMBOLS/NOTES THAT APPLY TO ALL SHEETS.
- SEE SHEET CD-202 FOR 3" PVC DRAINAGE PIPES THROUGH SIDEWALKS AND UNDER SIDEWALKS THROUGH CITY CURB FACE.



TYPICAL POND DETAIL

NOT TO SCALE

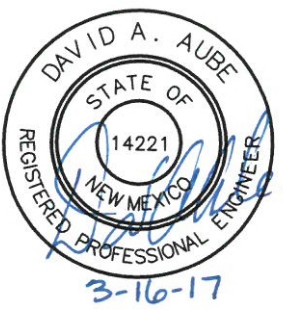
BUILDING B				As-Built BOTTOM ELEV.
POND	LOWEST POINT ON CURB OR TSW	TOP ELEV	BOTTOM ELEV	
A	5348.54	5348.46	5348.04	47.93
B	5348.35	5348.27	5347.85	47.53
C	5348.05	5337.97	5337.55	47.07
D	5347.72	5347.64	5347.22	46.85
E	5347.57	5347.49	5347.07	46.75
F	5347.25	5347.17	5346.75	46.53
G	5347.21	5347.13	5346.71	46.84
H	5347.03	5346.95	5346.53	46.56
I	5346.97	5346.89	5346.47	46.38
J	5346.84	5346.76	5346.34	46.21
K	5346.79	5346.71	5346.29	46.38
L	5346.70	5346.62	5346.20	46.11
M	5346.67	5346.59	5346.17	45.98
N	5346.63	5346.55	5346.13	46.12
O	5346.60	5346.52	5346.10	45.86
P	5346.56	5346.48	5346.06	46.02
Q	5346.51	5346.43	5346.01	45.99

This pond eliminated.

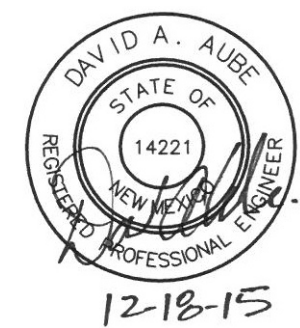
Drainage Certification (L19D073C, DRB#1010674)

I, David A. Aube, NMPE 14221, of the firm The Hartman + Majewski Design Group, Inc., hereby certify that portion of the project (Building B located at 512 San Pablo Street SE) is in substantial compliance with and in accordance with the design intent of the Grading and Drainage plan approved plan dated 12-18-15. The record information that has been edited onto the original design documents where obtained by Community sciences Corporation on February 2, 2017. I further certify that I have personally visited the project site on February 08, 2017 and have determined by visual inspection that the actual site conditions shown on this plan to be true and correct to the best of my knowledge and belief. This certification is submitted in support of a request for Permanent Certificate of Occupancy for Building B located at 512 San Pablo Street, SE.

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



STAMP



100% CONSTRUCTION DOCUMENTS

PROJECT NAME
CASA FELIZ

441 ESPANOLA STREET SE,
ALBUQUERQUE, NEW MEXICO 87108

GREATER ALBUQUERQUE
HOUSING PARTNERSHIP

REVISIONS

NO.	DATE	DESCRIPTION

Copyright: Design Group

Drawn by: DAA
Checked by: DAA
Date: OCTOBER 19, 2015
Project number: 2491

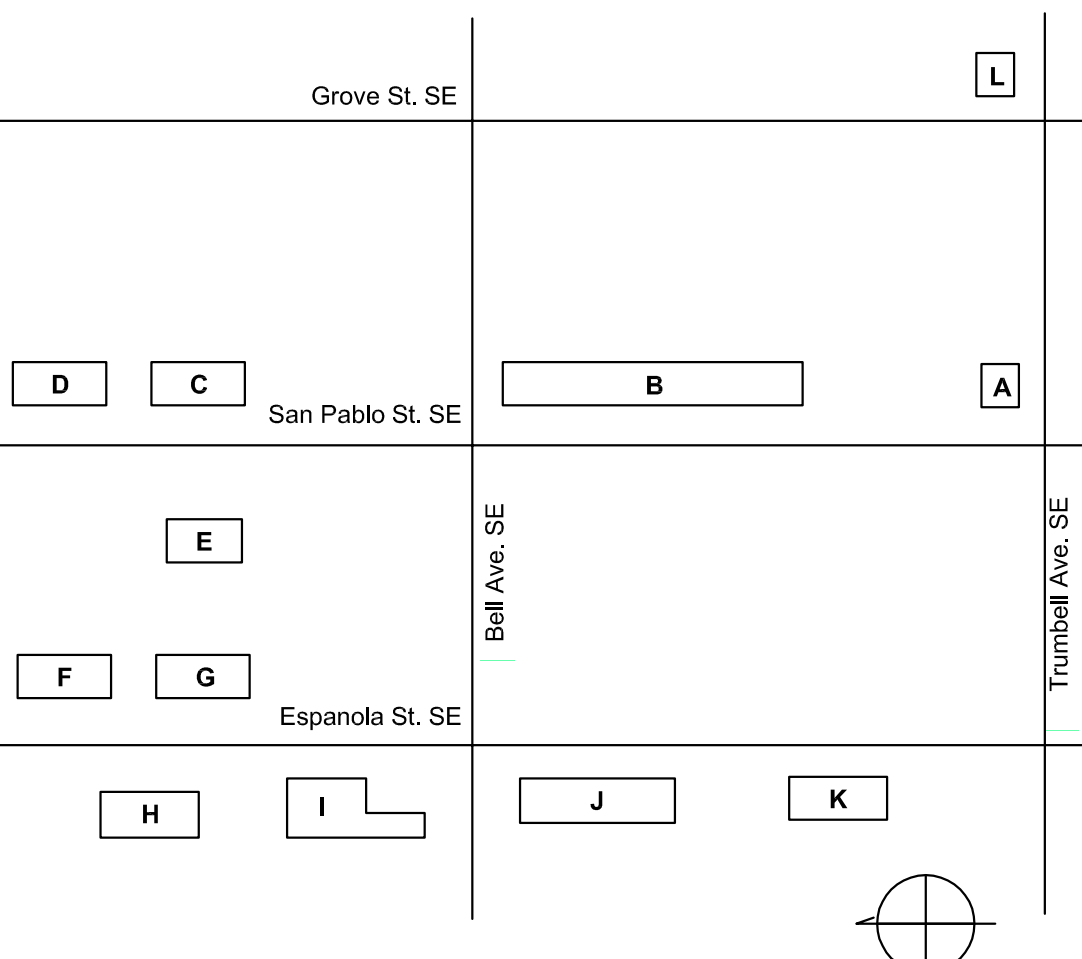
SHEET TITLE

ENLARGED
SITE DRAINAGE PLAN
SOUTHERN PART OF
BUILDING B

SHEET NUMBER

CD-204

KEY PLAN

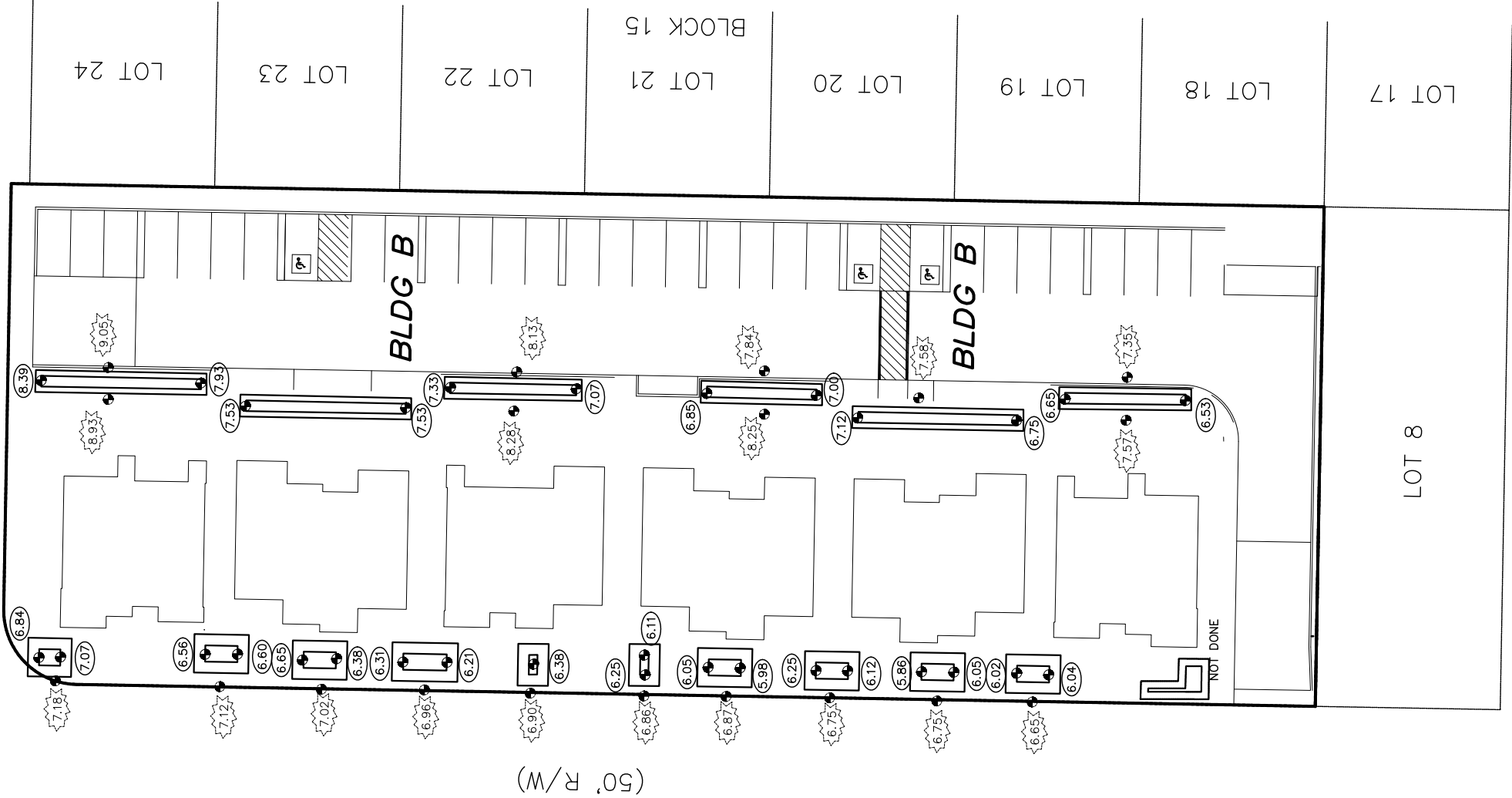


DATE: 02/02/17
SCALE: 1" = 40'
CREW: LRC/RGR
DRAWN: SLN
JOB NO. N935-01-605

Community Sciences Corporation
LAND SURVEYING & LAND PLANNING
P.O.Box 1328, Corrales N.M., 87048 (505) 897.0000

POND AS-BUILT EXHIBIT
LOT 1-A, BLOCK 15
EMIL MANN ADDITION
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO

BELL AVENUE, S.E.
(50' R/W)



LEGEND

- (00.3) EXIST. SPOT ELEVATION BOTTOM OF POND
- (00.3) EXIST. TOP OF CURB OR TOP OF SIDEWALK

Dave Aube

From: Harmon Rita T. <rharmon@cabq.gov>
Sent: Tuesday, May 03, 2016 9:44 AM
To: Dave Aube
Subject: RE: Casa Feliz L19D073A-I

Hi Dave,

I agree that the 4" PVC pipes should be eliminated, and that the first flush ponds should overflow across the sidewalks in a sheet flow manner. Rather than resubmit a revised grading plan, with a new approval, this email serves as Hydrology's acceptance of this change and will be added to the drainage file to document the change. Please be sure to note the change on the As-built drawing when requesting C.O.

Rita Harmon, P.E.

Senior Engineer, Hydrology Section
City of Albuquerque Planning Department
Development & Review Services Division
600 2nd St. NW, Suite 201
Albuquerque, NM 87102
t 505-924-3695

From: Dave Aube [mailto:daube@designgroupnm.com]
Sent: Monday, May 02, 2016 9:45 AM
To: Harmon Rita T.
Cc: Dave Aube
Subject: Casa Feliz L19D073A-I

Rita
Thanks for taking time last week to discuss the Casa Feliz project and the drainage of the small landscaping strips between the curb and sidewalk.

I took a more detailed look at the contributing basins and their peak flowrates. It appears that the max that we would see out of these basins is 0.15 cfs that could overtop the sidewalk during the 100year storm event. The average is 0.11 cfs that overflows the first flush ponding areas.

Based on these small volumes, I think that installing a 4" discharge pipe through the curb, may be causing more harm than good. The other issue is to get the grades to work the invert of the pipe discharges from the first flush ponds would need to be at the base of the pond and would reduce or eliminate any on-site storage of the first flush volumes.

At this time I would like authorization to remove the 4" discharge pipes between the shallow ponds and the public curb face.

Please let me know if you think this would be acceptable.
Thanks
Dave

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

L19D073C

PROJECT TITLE: GAHP Casa Feliz

DRB #: _____

EPC#: _____

ZONE MAP/DRG. FILE #: L-19-Z

WORK ORDER#: _____

LEGAL DESCRIPTION: Lot 13-18, 18-20 Block 4, Lots 4-8, 17-18 Block 5, etc. Emil Mann Addition

CITY ADDRESS: 512 San Pablo Street, SE

Lot 1A Block 15,

ENGINEERING FIRM: Hartman + Majewski Design Group

ADDRESS: 120 Vassar Dr SE, Suite 100

CITY, STATE: Albuquerque, NM 87106

CONTACT: David Aube

PHONE: 505-998-6430

ZIP CODE: 87106

OWNER: Greater Albuquerque Housing Partnership

ADDRESS: 320 Gold SW, Suite 918

CITY, STATE: Albuquerque, NM

CONTACT: Felipe Rael

PHONE: 505-244-1614

ZIP CODE: 87102

ARCHITECT: Hartman + Majewski Design Group

ADDRESS: 120 Vassar Dr SE, Suite 100

CITY, STATE: Albuquerque, NM

CONTACT: Mark Wade

PHONE: 505-998-6442

ZIP CODE: 87106

SURVEYOR: Community Sciences

ADDRESS: _____

CITY, STATE: Albuquerque, NM

CONTACT: _____

PHONE: 505-

ZIP CODE: _____

CONTRACTOR: _____

ADDRESS: _____

CITY, STATE: _____

CONTACT: _____

PHONE: _____

ZIP CODE: _____

CHECK TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT
- ☐ DRAINAGE PLAN 1st SUBMITTAL, **REQUIRES TCL or equal**
- ☐ DRAINAGE PLAN RESUBMITTAL
- ☐ CONCEPTUAL GRADING & DRAINAGE PLAN
- ☐ GRADING PLAN
- ☐ EROSION CONTROL PLAN
- ☒ ENGINEER'S CERTIFICATION (HYDROLOGY)
- ☐ CLOMR/LOMR
- ☐ TRAFFIC CIRCULATION LAYOUT (TCL)
- ☐ ENGINEERS CERTIFICATION (TCL)
- ☐ ENGINEERS CERTIFICATION (DRB APPR. SITE PLAN)
- ☐ OTHER

CHECK TYPE OF APPROVAL SOUGHT:

- ☐ SIA / FINANCIAL GUARANTEE RELEASE
- ☐ PRELIMINARY PLAT APPROVAL
- ☐ S. DEV. PLAN FOR SUB'D. APPROVAL
- ☐ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
- ☐ SECTOR PLAN APPROVAL
- ☐ FINAL PLAT APPROVAL
- ☐ FOUNDATION PERMIT APPROVAL
- ☐ BUILDING PERMIT APPROVAL
- ☒ CERTIFICATE OF OCCUPANCY (PERM.)
- ☐ CERTIFICATE OF OCCUPANCY (TEMP.)
- ☐ GRADING PERMIT APPROVAL
- ☐ PAVING PERMIT APPROVAL
- ☐ WORK ORDER APPROVAL
- ☐ OTHER (SPECIFY)

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☒ YES
- ☐ NO
- ☐ COPY PROVIDED

DATE SUBMITTED: March 16, 2017

BY: David Aube P.E.

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope of 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:

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