CITY OF ALBUQUERQUE

Planning Department
Suzanne Lubar, Director



Mayor Richard J. Berry

February 23, 2017

Fred C. Arfman, P.E. Isaacson & Arfman, PA 128 Monroe St NE Albuquerque, NM 87108

Re:

Elan-Santa Monica Place Senior Assisted Living/Memory Care

6901 San Vicente Ave. NE

Request Permanent C.O. - Accepted

Engineer's Stamp dated: 10-16-15 (D18D054B)

Certification dated: 2-10-17

PO Box 1293

Dear Mr. Arfman,

Albuquerque

Based upon the information provided in your submittal received 2/23/20167, the above referenced

Certification received is acceptable for the release of permanent Certificate of Occupancy by

New Mexico 87103 Hydrology.

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

www.cabq.gov

Shahab Biazar, P.E.

City Engineer, Planning Dept.

Development Review Services

TE/SB

C: email,

Sincerely,

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



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

roject Title: Elan - Santa Monica Place (Senior Assisted Living/Memory Care) Building Permit #: RB#: 1003916 EPC#:	Work Or	City Drainage #: D18/D
egal Description: The Eastern Portion of Tract 3, Santa Monica Place		
ity Address: 6901 San Vicente Ave. NE - Albuquerque, NM 87109		
ngineering Firm: Isaacson & Arfman, P.A.	Contact	Fred C. Arfman
ddress: 128 Monroe Street NE - Albuquerque, NM 87108	— Contact.	- Tea O. Allinan
hone#: (505) 268-8828 Fax#:	F-mail·	freda@iacivil.com
10non. 10xn.		11.000.00
wner: Titan Senior Living	Contact:	Kurt Browning
ddress: 6300 Riverside Plaza Lane NW, Suite 200 - Albuquerque, NM 87120		
hone#: <u>(505) 998-0163</u> Fax#:	_ E-mail:	
rchitect: D 2 Architecture, LLC	Contact:	
ddress: 2201 North Lamar Street, Suite 300 - Dallas, TX 75202		
hone#:	E-mail:	
	–	Obsistanta a A Basilia a
ther Contact: Terra Land Surveys, LLC (As-Builts)	Contact:	Christopher A. Medina
ddress: 4436 Corrales Road Corrales, NM 87048 hone#: (505) 792-0513 Fax#:	T !! .	
hone#: <u>(505) 792-0513</u> Fax#:	E-mail:	
X HYDROLOGY/ DRAINAGE TRAFFIC/ TRANSPORTATION BUILDING	PERMIT AF	
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CITY OF ALBUQUERQUE

February 14, 2017

Fred C. Arfman, P.E. Isaacson & Arfman, PA 128 Monroe St NE Albuquerque, NM 87108

Re: Elan-Santa Monica Place Senior Assisted Living/Memory Care

6901 San Vicente Ave. NE

Request for Temporary 60-Day CO – Accepted Engineer's Stamp dated: 10-16-15 (D18D054B)

Certification dated: 2-10-17

Dear Mr. Arfman,

Based on the certification provided in your submittal received 2/10/2017, the above referenced is approved for a 60-day Temporary Release of Occupancy by Hydrology. However, before a permanent CO can be accepted the following comments must be addressed.

PO Box 1293

Albuquerque

- Note #18 4" pipes from pond thru perimeter wall to curb are missing.
- Two (2) curb cuts are missing at far SW corner.
- Inlet is missing at note #8 depressed landscaping area in middle of East side.

An inspection by our office will need to take place after these corrections are made.

New Mexico 87103

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

www.cabq.gov

Shahab Biazar, P.E.

City Engineer, Planning Dept.

Development Review Services

TE/SB

C: email,

Sincerely,

Cordova, Camille C.; Connor, Miranda, Rachel; Sandoval, Darlene M.;

Blocker, Lois



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

RB#: 1003916 EPC#:	Work Order#:
egal Description: The Eastern Portion of Tract 3, Santa Monica Place	
ity Address:	
ngineering Firm: Isaacson & Arfman, P.A.	Contact: Fred C. Arfman
ddress: 128 Monroe Street NE - Albuquerque, NM 87108	
none#: (505) 268-8828 Fax#:	E-mail: freda@iacivil.com
wner: Titan Senior Living	Contact: Kurt Browning
ddress: 6300 Riverside Plaza Lane NW, Suite 200 - Albuquerque, NM 87120	·
none#: (505) 998-0163 Fax#:	E-mail:
rchitect: D2 ARCHITECTURE	Contact: PATRIK DOMME
ddress: $0.00000000000000000000000000000000000$	E-mail:
ther Contact: Surv-Tek, Inc.	Contact: Russ P. Hugg
ddress: 9384 Valley View Drive NW - Albuquerque, NM 87114	<u> </u>
hone#: (505) 897-3366 Fax#: (505) 897-3377	E-mail:
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CITY OF ALBUQUERQUE



February 14, 2017

Fred Arfman R.A. Isaacson & Arfman, P.A. 128 Monroe St NE Albuquerque, NM 87108

Re: Elan – Santa Monica PI, 6901 San Vicente Ave Ne

Request for Certificate of Occupancy- Transportation Development

Engineer's/Architect's Stamp dated 10-30-14 (D18-D054B)

Certification dated 02-14-17

Dear Mr. Arfman,

Based upon the information provided in your submittal received 02-14-17, Transportation Development has no objection to the issuance of a <u>Permanent Certificate of Occupancy</u>. This letter serves as a "green tag" from Transportation Development for a <u>Permanent Certificate of Occupancy</u> to be issued by the Building and Safety Division.

PO Box 1293

If you have any questions, please contact me at (505) 924-3630.

Albuquerque

Sincerely,

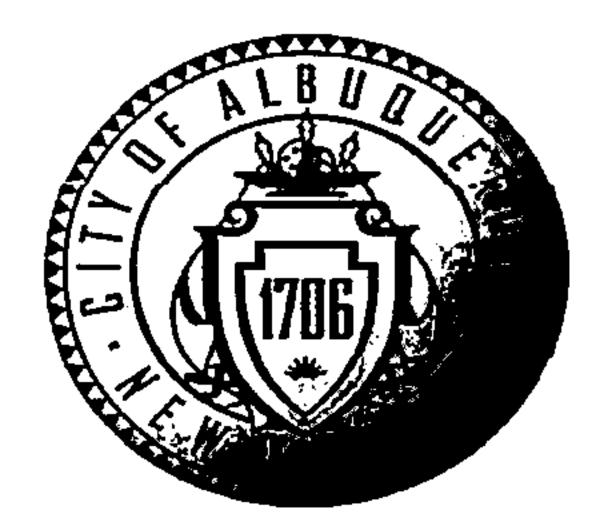
New Mexico 87103

Logan Patz

Senior Engineer, Planning Dept. Development Review Services

www.cabq.gov

LWP via: email C: CO Clerk, File



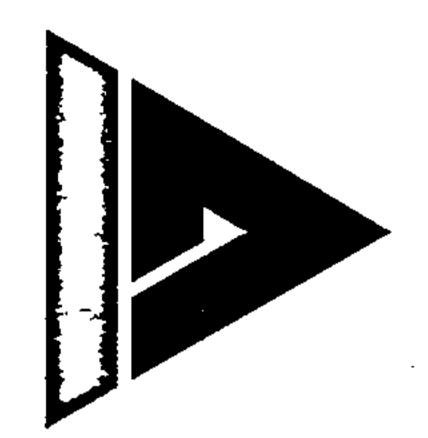
City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

DRB#: 1003916 EPC#:	#: City Drainage #:D18/D054 Work Order#:
Legal Description: The Eastern Portion of Tract 3, Santa Monica Place	
City Address: 6901 SAN VICENTE AVE. NE	
Engineering Firm: Isaacson & Arfman, P.A.	Contact: Fred C. Arfman
ddress: 128 Monroe Street NE - Albuquerque, NM 87108	—
hone#: <u>(505) 268-8828</u> Fax#:	E-mail: <u>freda@iacivil.com</u>
wner: Titan Senior Living	Contact: Kurt Browning
ddress: 6300 Riverside Plaza Lane NW, Suite 200 - Albuquerque, NM 87120	
none#: (505) 998-0163 Fax#:	E-mail:
robitoote Aacus	Cantaati
ddress: 2001 N. INMAR ST. DALLAS TX 75	Contact: とって
ddress: 2001 N. LAMAR. ST. DALLAS, TX 75 none#: Fax#:	E-mail:
ther Contact: Surv-Tek, Inc. CHRISTOPAER /150, NA - As-BULTS	Contact: Russ P. Hugg MEDIA
ddress: 9384 Valley View Drive NW - Albuquerque, NM 87114	
none#: (505) 897-3366 Fax#: (505) 897-3377	E-mail:
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Thomas O. Isaacson, PE(RET.) & LS(RET.) . Fred C. Arfman, PE . Asa Nilsson-Weber, PE

TRAFFIC CERTIFICATION

I, Fred C. Arfman, NMPE No. 7322 OF THE FIRM Isaacson & Arfman, PA, HEREBY CERTIFY THAT THIS PROJECT IS IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE DRB APPROVED PLAN DATED October 14, 2014. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY Fred C. Arfman OF THE FIRM Isaacson & Arfman, PA. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON February 13, 2017 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 PERMANENT CERTIFICATE OF OCCUPANCY.

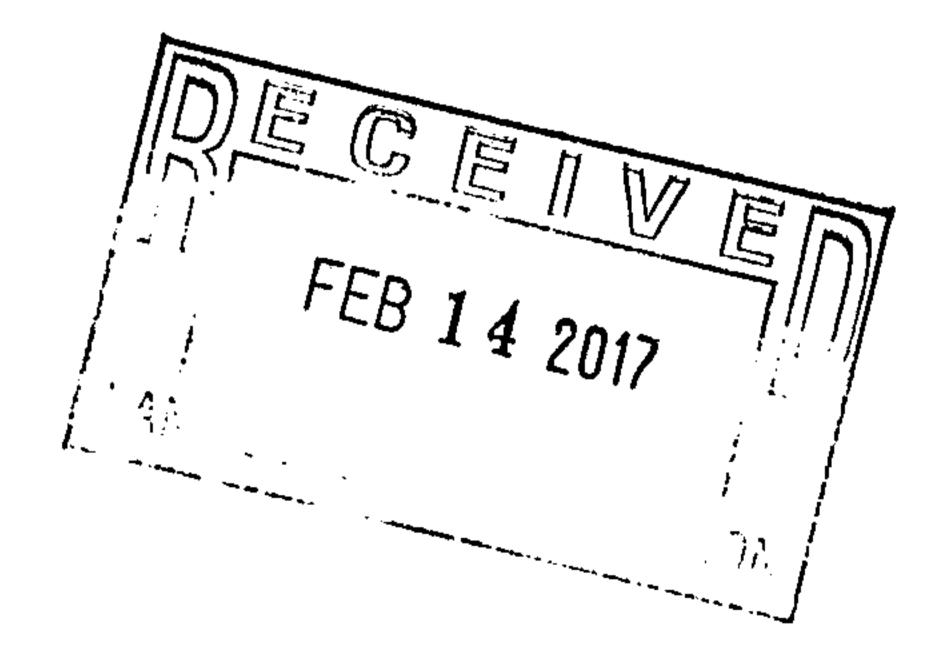
THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE TRAFFIC ASPECTS OF THIS PROJECT. THOSE RELYING ON THE RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

7322

Fred C. Arfman, PE No. 732/2

February 14, 2017

Date





Consulting Engineering Associates

Fred Arfman <freda@iacivil.com>

Elan Assisted Living Facility (D18/D054B)

1 message

Fred Arfman <freda@iacivil.com>
To: plndrs@cabq.gov

Tue, Feb 14, 2017 at 9:42 AM

City Transportation Division,

Here attached is the Traffic Certification prepared by our office for the referenced project.

Please reply if additional information is required to secure the Permanent CO from Transportation.

Thanks,

Fred

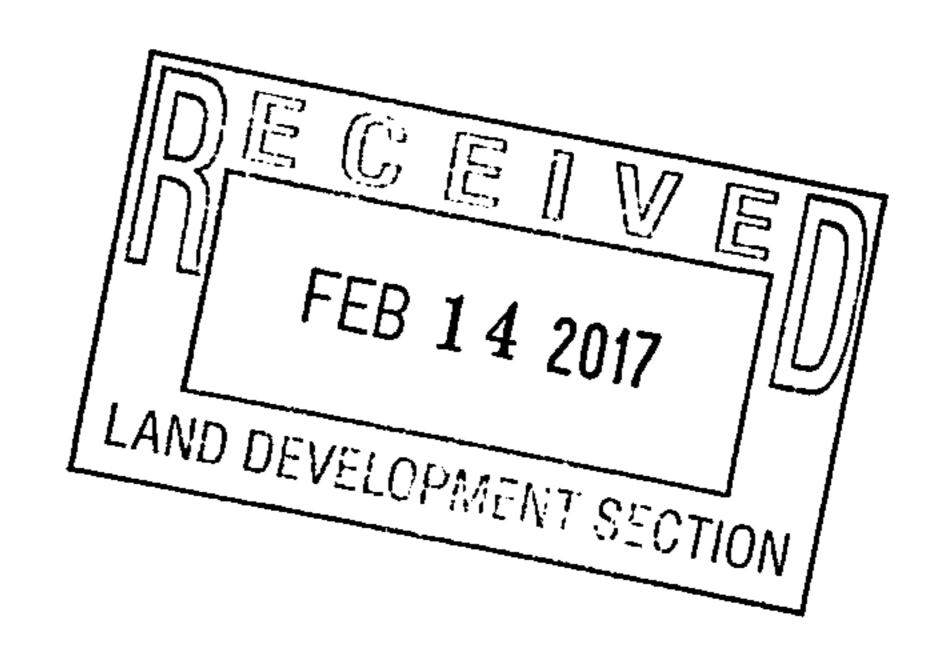
Fred C. Arfman, P.E.
Principal/ President
Isaacson & Arfman, P.A.
Consulting Engineering Associates
128 Monroe St. N.E.
Albuquerque, NM 87108
Phone: (505)268-8828

Fax: (505)268-2632 email: freda@iacivil.com

2 attachments

2017 02-14 Site Plan Traf. Cert..pdf 3655K

2017 02-14 Traffic Cert Stamped.pdf 351K



CITY OF ALBUQUERQUE



November 24, 2015

Richard J. Berry, Mayor

Fred C. Arfman
Isaacson & Arfman, P.A.
128 Monroe Street NE
Albuquerque, NM, 87108

RE: Santa Monica Place (Senior Assisted Living/Memory Care)
East End of Tract 3

Grading and Drainage Plan

Engineer's Stamp Date 10-16-2015 (File: D18D054B)

Dear Mr. Arfman:

Based upon the information provided in your submittal received 10-23-2015, the above-referenced plan is approved for SO-19 Permit. The Grading Permit and Building Permit are approved with the following conditions:

PO Box 1293

 Specify class IV RCP for the 24" storm drain that will be placed under the retaining wall (or other class only if justified).

Albuquerque

• It is assumed that the hatched rectangles shown within the ponds are the percolation pits referenced in Keyed Note 7 on Sheet CG-101.

New Mexico 87103

Please attach a copy of this approved plan in the construction sets when submitting for a building permit. Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

www.cabq.gov

If you have any questions, you can contact me at 924-3986.

Abiel Carrillo, P.E.

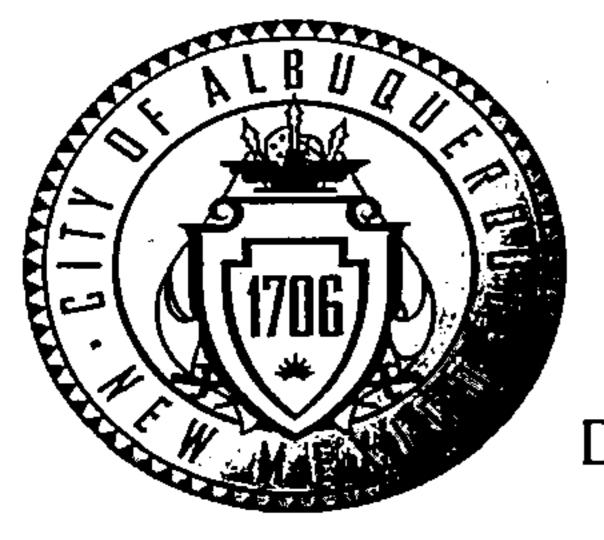
Principal Engineer, Planning Dept.

Development Review Services

Orig:

Drainage file

Sincerely,



City of Albuquerque

Planning Department

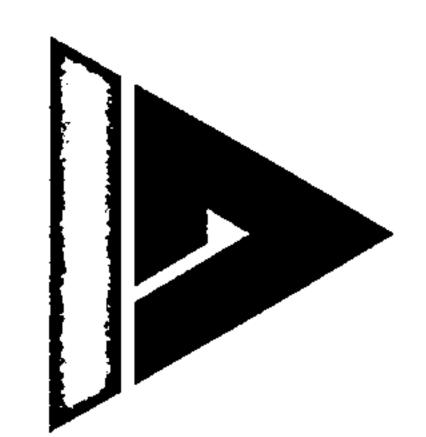
Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 02/2013)

Project Title: Elan - Santa Monica Place (Senior Assisted Living/Memory Care)	Building Permit #: City Drainage #: D18 D054B
DRB#: 1003916 EPC#:	Work Order#:
Legal Description: The Eastern Portion of Tract 3, Santa Monica Place	e
City Address:	
Engineering Firm: Isaacson & Arfman, P.A.	Contact: Åsa Nilsson-Weber
Engineering Firm: Isaacson & Arfman, P.A. Address: 128 Monroe Street NE - Albuquerque, NM	
Phone#: (505) 268-8828 Fax#:	E-mail: asaw@iacivil.com
Owner: Del Rey Investments, LLC	Contact: Kurt Browning
Address: 6300 Riverside Plaza Lane NW, Suite 200 - Albuquerque	
Phone#: (505) 998-0163 Fax#:	E-mail:
Architect:	Contact:
Address:	
Phone#: Fax#:	E-mail:
Surveyor: Surv-Tek, Inc.	Contact: Russ P. Hugg
Address: 9384 Valley View Drive NW - Albuquerque, NM 87114	
Phone#: (505) 897-3366 Fax#: (505) 897-3377	E-mail:
<u> </u>	
Contractor:	Contact:
Address:	T' manile
Phone#: Fax#:	E-mail:
TYPE OF SUBMITTAL:	TYPE OF APPROVAL/ACCEPTANCE SOUGHT:
	NANCIAL GUARANTEE RELEASE
	MINARY PLAT-APPROVAL
	PLAN FOR SUB DAPPROVAL
	FOR BLDG. PERMIT APPROVAL
	PLAT APPROMAL 23 23:5
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	IG PERMIT APPROVAL ESC PERMIT APPROVAL
Brioniber 5 05111 (200)	ORDER APPROVAL ESC CERT. ACCEPTANCE
	ING CERTIFICATION OTHER (SPECIFY)
WAS A PRE-DESIGN CONFERENCE ATTENDED: Yes	No Copy Provided
DATE SUBMITTED: June 10, 2015 By: <u>Fred Ar</u> Isaacson	& Afrman, P.A.

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

- 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 subdivision containing more than ten (10) lots or constituting five (5) acres or more
- 4. Erosion and Sediment Control Plan: Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development



Thomas O. Isaacson, PE(RET.) & LS(RET.) . Fred C. Arfman, PE . Asa Nilsson-Weber, PE

October 23, 2015

Rita Harmon, P.E. Senior Engineer, Hydrology City of Albuquerque Planning Dept.

RE: ELAN-SANTA MONICA PLACE (D18D054B)

Dear Ms. Harmon,

Attached with this letter is are two copies of the revised grading and drainage plans and supplemental information packet for your final review. Revisions were made based on your review comments dated June 24, 2015 as follows:

- All roof drains will discharge at grade and pass to first flush retention basins as shown.
- The covered sidewalk culverts have been identified with Keyed Note 21. Once the shallow first flush volume fills, the excess will pass west via the westernmost covered sidewalk culvert.
- Percolation trenches have been added to the first flush basins.
 - See Sheet CG-502 for a profile of the 24" RCP penetrating the proposed retaining wall.
 - The three covered sidewalk culverts will be constructed as part of this project. An S.O.19 block is provided on Sheet CG-101.

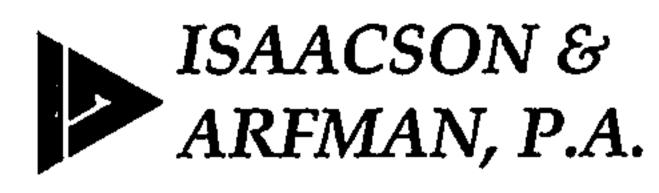
In addition to those revisions, the overall building has gotten smaller and the main entrance has shifted west. This has enabled us to revise the storm drain system and adjust grades. The updated storm drain calculations are provided in the supplemental packet.

Please don't hesitate to call me or Fred Arfman, the project engineer at 268-8828 with any additional questions or comments.

Sincerely,

Isaacson & Arfman, PA

Bryan Bobrick



Consulting Engineering Associates

Bryan Bobrick
 <bryanb@iacivil.com>

Elan-Santa Monica (D18 D054B) Resubmittal to COA Hydrology

1 message

Bryan Bobrick

 bryanb@iacivil.com>

Fri, Oct 23, 2015 at 10:23 AM

To: COA Planning Development Review Services < PLNDRS@cabq.gov>, Fred Arfman < freda@iacivil.com>, Ruth Lozano < ruthl@iacivil.com>

Bryan Bobrick Isaacson & Arfman, P.A. 128 Monroe N.E. Albuquerque, NM 87108

6 attachments

(505) 268-8828





CIVIL G-101 GRADING AND DRAINAGE PLAN.pdf

CIVIL G-102 OFF-SITE GRADING AND DRAINAGE PLAN.pdf

CIVIL G-501 STORM DRAIN DETAILS.pdf

CIVIL G-502 DRAINAGE DETAILS.pdf 925K



OCTOBER 1, 2015

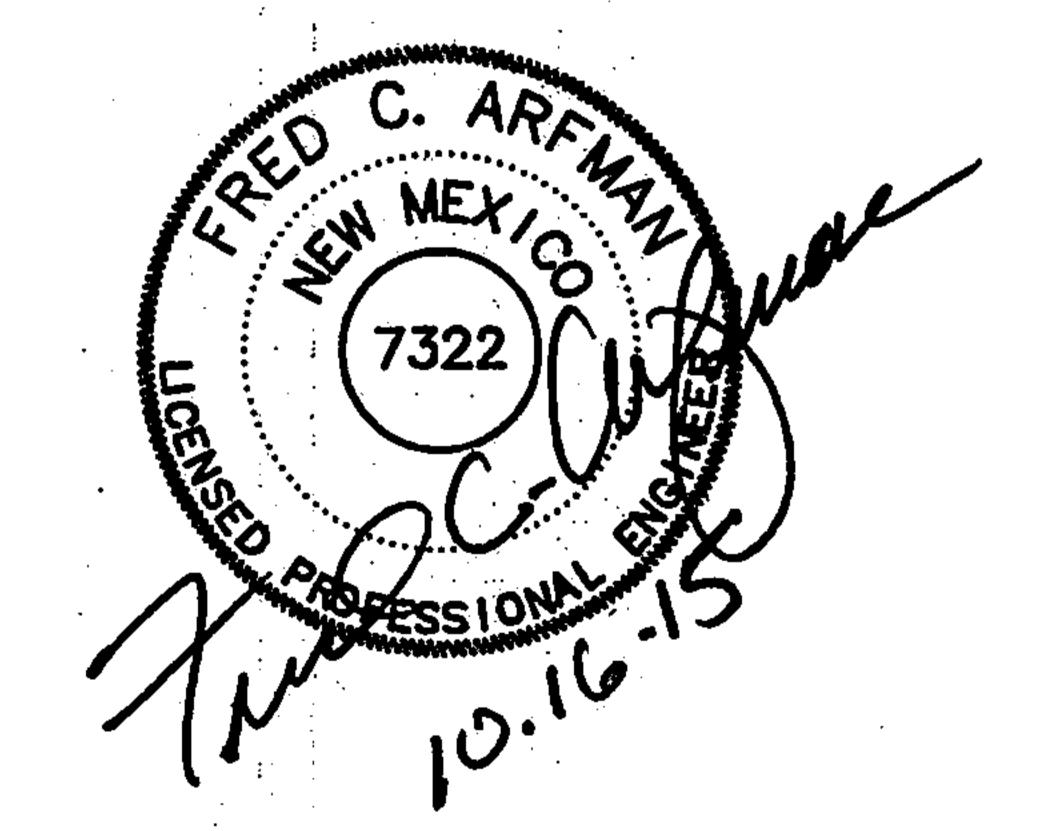
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for

TRACT 3-B SANTA MONICA PLACE DRAINAGE AND GRADING PLAN

I&A PROJECT NO. 2047

Ву

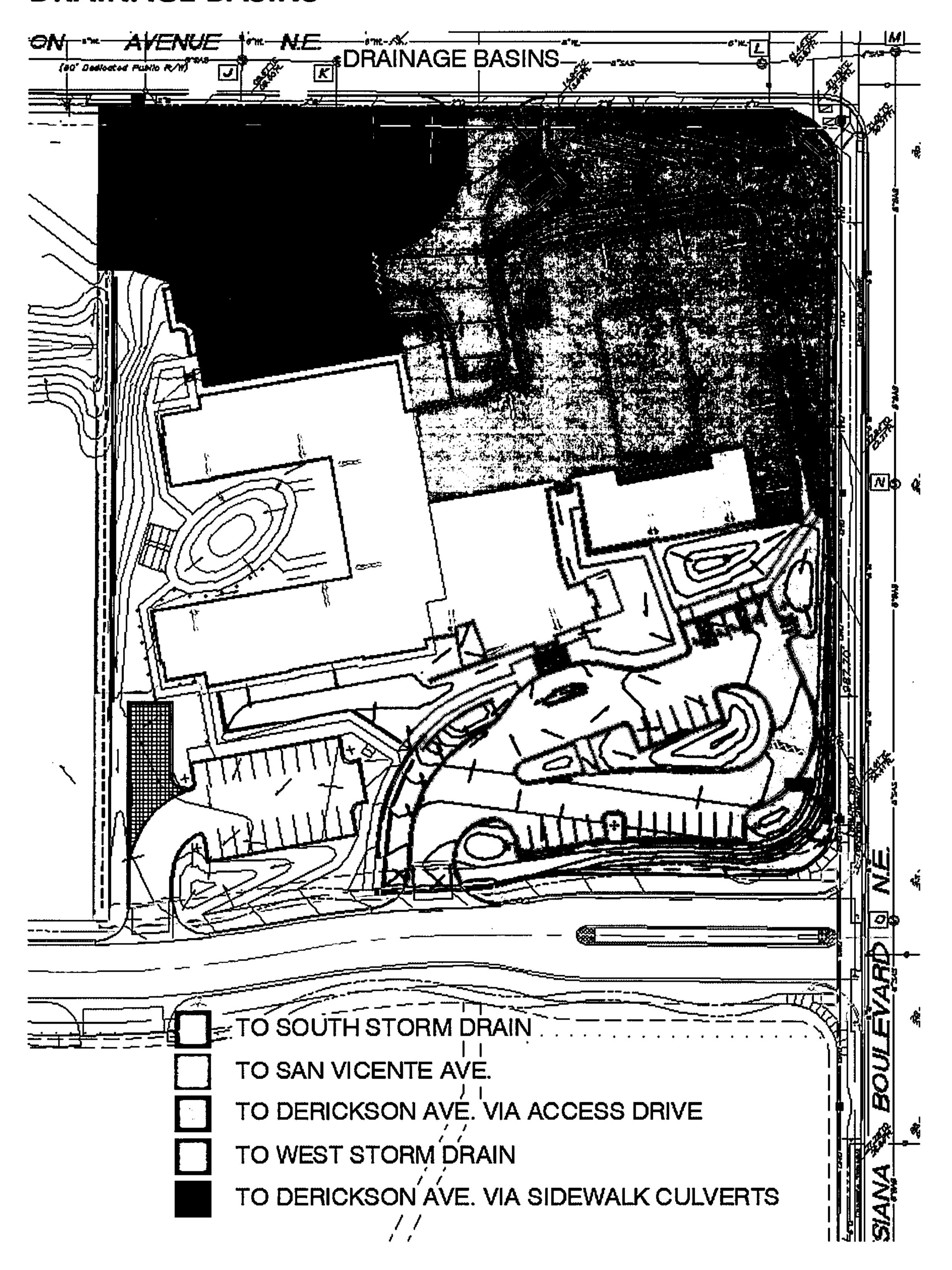


ISAACSON & ARFMAN, P.A.

Consulting Engineering Associates

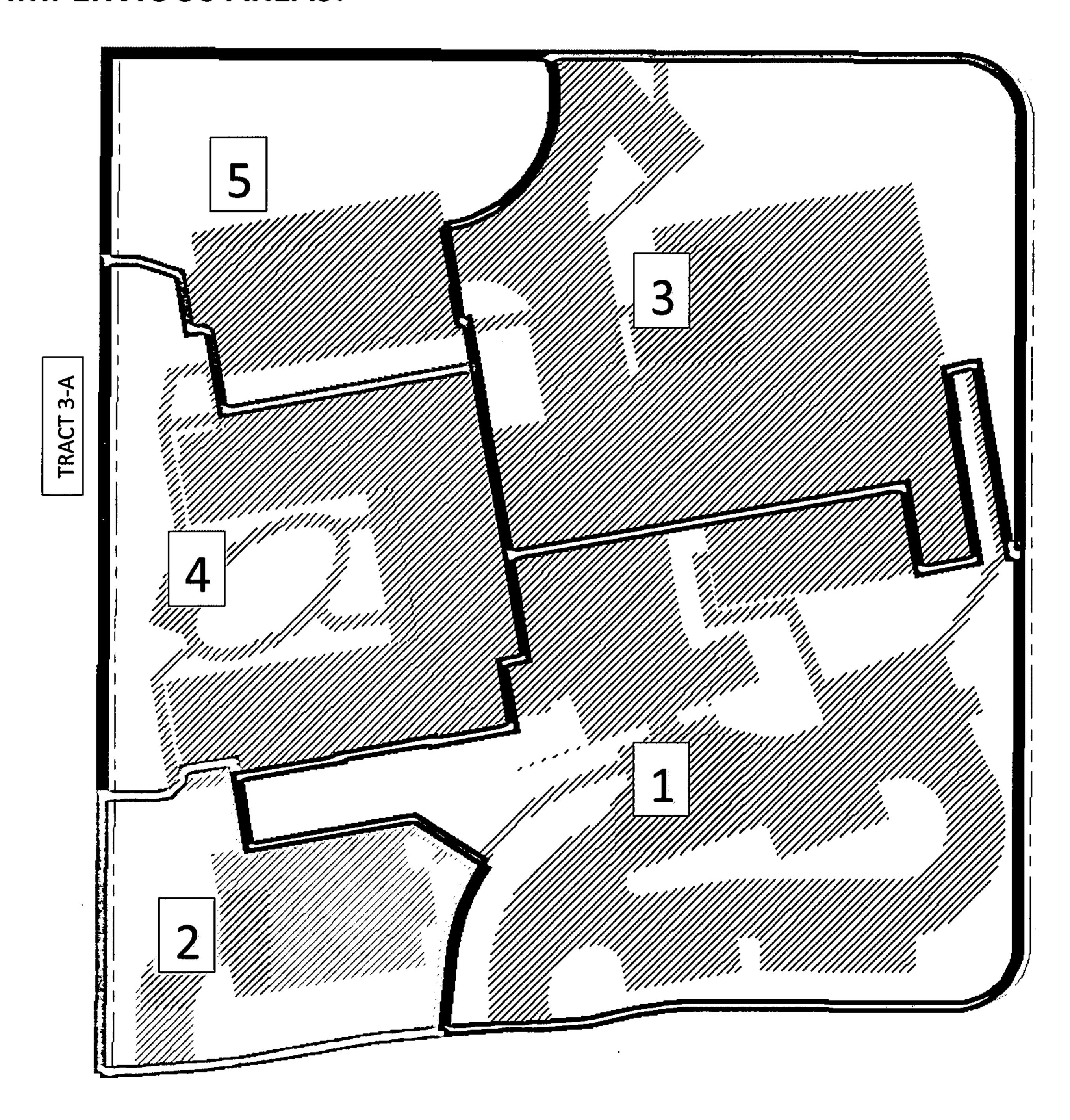
Thomas O. Isaacson, PE(RET.) & LS(RET.)
Fred C. Arfman, PE
Åsa Nilsson-Weber, PE

DRAINAGE BASINS

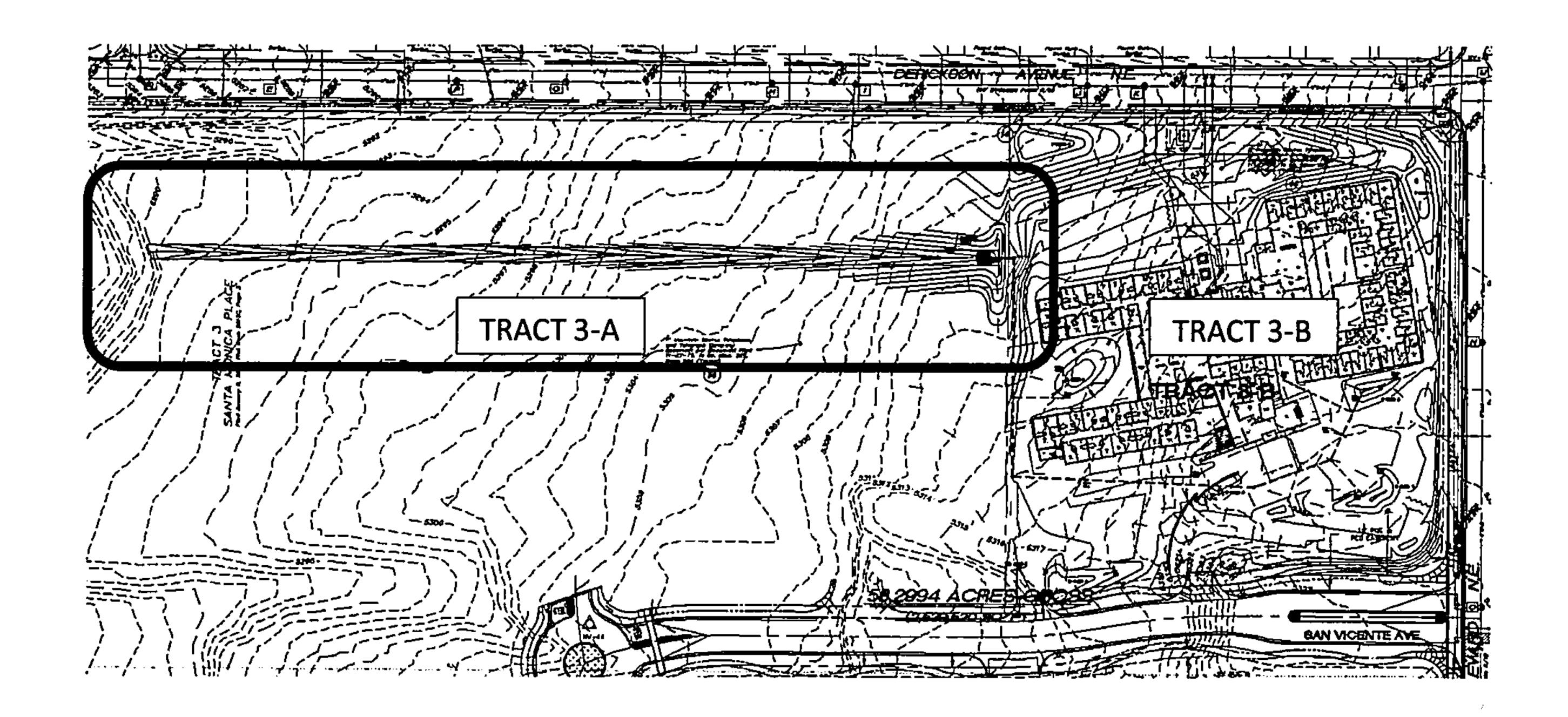


DRAINAGE BASINS WITH

IMPERVIOUS AREAS:



PERMISSION TO GRADE ON TRACT 3-A GRANTED BY PLAT



DRAINAGE EASEMENT NOTES

A. There is an existing interim Cross Lot Drainage Easement granted by plat filed January 6, 2012 in Plat Book 2012C, Page 2 for the mutual benefit of the owners of Tracts 1 thru 4 until future development occurs. Tracts 1 thru 4 will discharge drainage to the existing drainage facilities/outfalls located at the intersection of Derickson and San Pedro as outlined in the Conceptual Drainage Report prepared by Isaacson & Arfman, P.A. dated 12-2-11. Owners/Developers of any of the tracts are allowed to grade interim drainage facilities such as grading, berming, ponding or outfall structures on adjacent undeveloped property and will be maintained by the benefiting tract owner until such time that future development (TBD) of the undeveloped property is complete and applicable interim facilities are no longer required. Notwithstanding anything herein to the contrary, the interim Cross Lot Drainage Easement may not be terminated without the approval of the City Engineer.

Said Easement within Tracts 3 and 4, Santa Monice Place is VACATED by 14DRB-____.

B. A New Public and Private Interim Drainage Easement shall be granted by this plat over Tract 3—A, for the benefit of Tracts 3—B, 4—A and 4—B. Owners of said Tracts 3—B, 4—A and 4—B shall be allowed to grade Interim Drainage Facilities on Tract 3—A. Said Interim Drainage Facilities shall be maintained by the owner of Tract 3—A until such time that future development (TBD) of Tract 3—B is complete and applicable Interim Facilities are no longer required.

DRAINAGE BASIN / FIRST FLUSH CALCULATIONS

.open

BASINAO. 0			DESCRIPTION		TOSOUTISTORY	IDRAIN.	
Area of basin flows =	62758	SF		=	1.4 Ac.		
					LANDTRE	EATMENT	
First Fi	lush Volume	=	Basin Area		A =	0%	
		X	% Impervious		B =	22%	
		X	0.34" / 12		$\mathbf{C} =$	22%	İ
FIRST FLUSH	VOL.	=	996 CF		D=	56%	

BASIN NO.	2		DESCRIPTION	T	O SAN VICEN	ITE A VE
Area of basin flows =	19099	SF		=	0.4 Ac. LAND TR	REATMENT
First	Flush Volume	= x x	Basin Area % Impervious 0.34" / 12		A = B = C =	0% 24% 24%
FIRST FLUS	SH VOL.	=	281 CF		D =	52%

BASING PETS LAKE		LADESCRIPTION !	FREDDINGSON	A VIII. VI.	A A COUSSI	RIV
Area of bas in flows =	53746 SF		= 1.2 _ A	Ac.		
			LA	AND TR	EATMENT	_
First F	lush Volume =	Basin Area		A =	0%	
	X	% Impervious		B =	18%	
	X	0.34" / 12		C =	18%	
FIRST FLUSH	I VOL. =	975 CF		D=	64%	

BASIN NO. 4			DESCRIPTION	•	TO WEST STORN	M DRAIN
Area of basin flows =	35828	SF		=	0.8 Ac.	
					LANDTR	EATMENT
First FI	lush Volume	=	Basin Area		A =	0%
		X	% Impervious		B =	19%
		X	0.34" / 12		C=	19%
FIRST FLUSH	I VOL.	=	629 CF		D=	62%

BASIN NO. 5		_	DESCRIPTION	TOT	DERĮCKSON A VE. VIA SĮDEWALK CULVERTS
Area of basin flows =	26901	SF		=	0.6 Ac.
First F		= X X	Basin Area % Impervious 0.34" / 12		LAND TREATMENT $A = 0\%$ $B = 34\%$ $C = 34\%$
FIRST FLUSI	I VOL.	=	244 CF		D = 32%

TOTAL D =
$$1.4(.54) + 0.4(.52) + 1.2(.64) + 0.8(.62) + 0.4(.32)$$

= $2.45ac$

									-	(YR) =05/1 np_User:20	
COMMAND	HYDROGRAPH IDENTIFICATION	FROM ID NO.	TO ID NO.	AREA (SQ MI)	PEAK DISCHARGE (CFS)	RUNOFF VOLUME (AC-FT)	RUNOFF (INCHES)	TIME TO PEAK (HOURS)	CFS PER ACRE	PAGE =	
		1101	1.0.	(0%)	(020)	(110 11)	(21,0122,	(1100110)	1101(11	HOTELL	.011
_	*S************************************										
*5 ·	SANTA MONICA PLA	ACE									
*5 *~	TRACT 3-B	CTODA	R				•				
*S *C	100-YEAR, 6-HOUR	C STORM	1								
*S *S	2047DEV.DAT										
*S	BY BRYAN BOBRICE	7									
*S	ISAACSON & ARFMA										
*S	MAY, 2015										
	, ***********	****	****	*****	****	****					
*S											
*S Rainfa	all distribution b	pased o	NOA	A Atlas 14 map	s						
*S Lati	tude=35.1625 Lo	ngitud	le=-10	6.5741							
*S										•	
*5*******	*****	****	****	********	*******	****					
START										TIME=	0.00
RAINFALL TY	PE= 1 NOAA 14									RAIN6=	2.410
*S BASE											
COMPUTE NM F		-	1	0.00225	5.21	0.194	1.61419	1.533	3.616	PER IMP=	56.00
*S BASE			_								
COMPUTE NM F		_	2	0.00069	1.57	0.057	1.56517	1.533	3.580	PER IMP=	52.00
*5 BAS3			_	0 00100	4 60	0.056	4 54004	4 500			<i>5.</i> 4 0.0
COMPUTE NM F			3	0.00193	4.62	0.176	1.71224	1.533	3.745	PER IMP=	64.00
*S BASI			A	0 00100	2 07	A 116	1 (0000	1 500	9 994	DED THE-	CO 00
COMPUTE NM F		_	4	0.00129	3.06	0.116	1.68773	1.533	3.720	PER IMP=	62.00

2.01

0.068

0.00096

1.32004

1.533

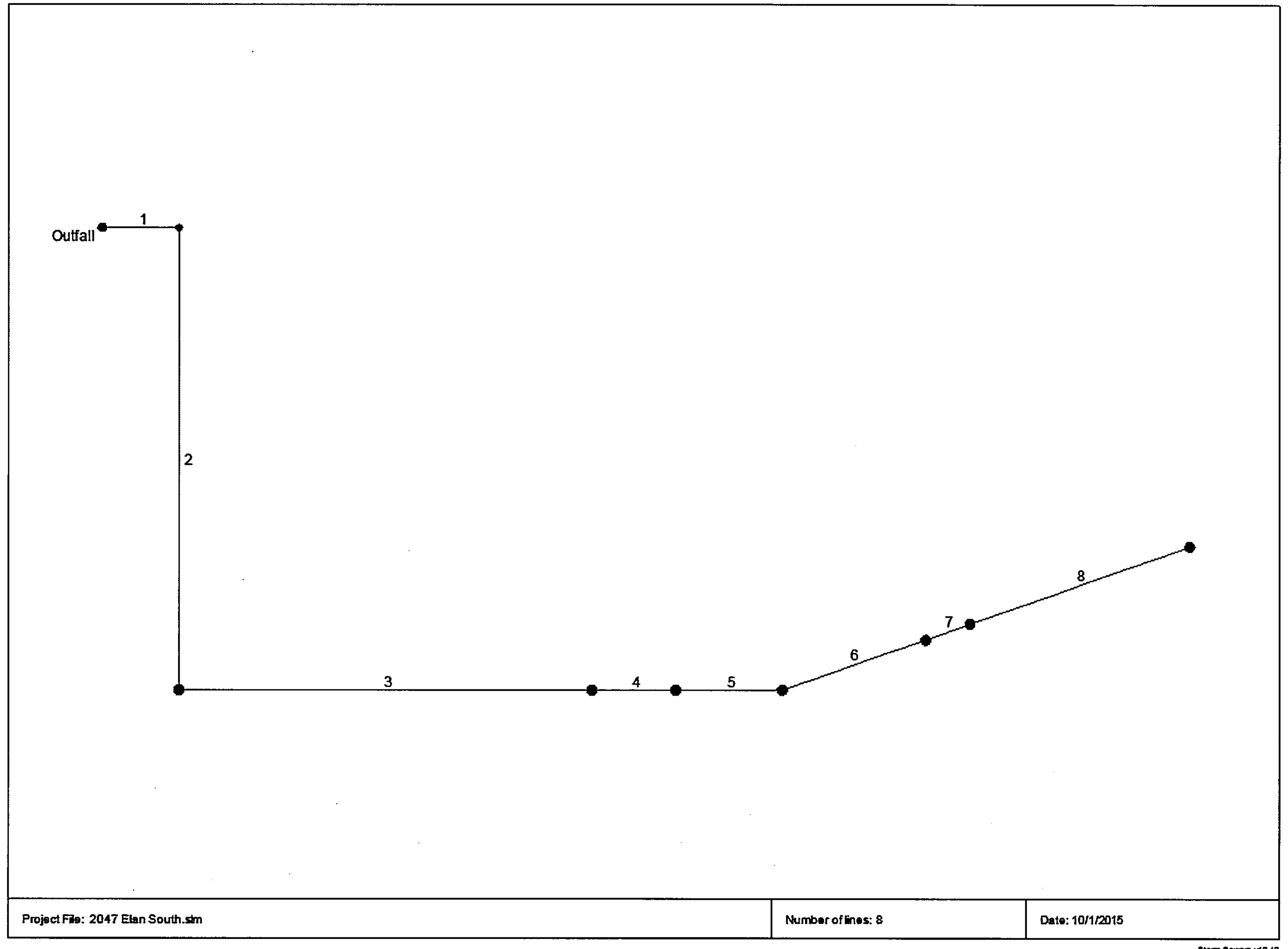
3.250 PER IMP= 32.00

S5

COMPUTE NM HYD

FINISH

Hydraflow Storm Sewers Extension for Autodesk® AutoCAD® Civil 3D® Plan



Hydraulic Grade Line Computations

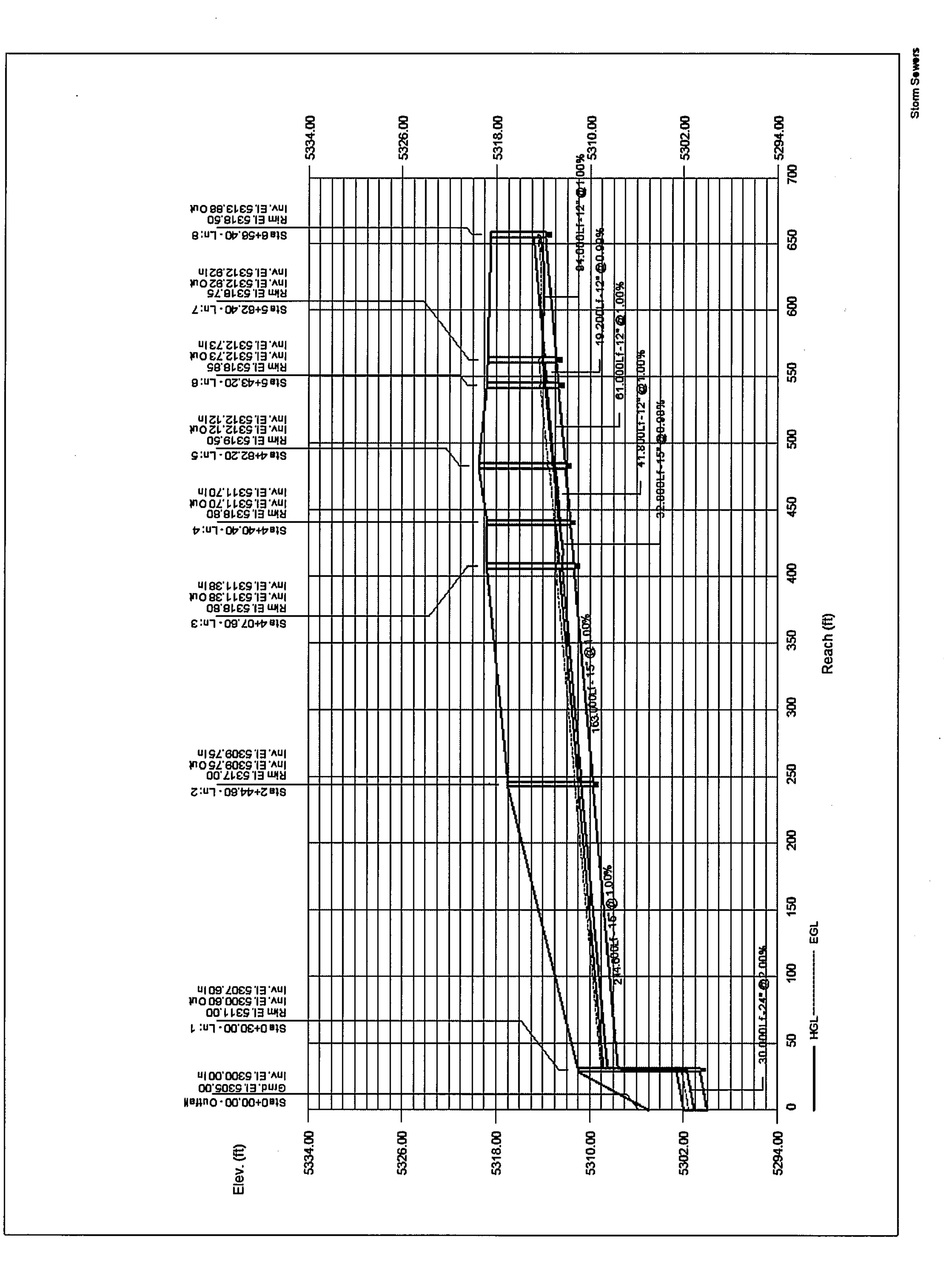
	(in)						m				Len	Upstream					Check	τ		Minor			
	{11 t}	(cfs)	invert elev (fi)	elev	Depth (ft)	Area (sqft)		head	elev	Sf (%)		Invert elev (ft)	elev		Area (sqft)		Vel head (ft)	EGL elev (ft)		Sf	Enrgy loss (ft)	coeff (K)	loss (ft)
			· ·				-		•	<u> </u>		• •			• • •					* 1	` <i>`</i>		
1	24	9.50	5300.00	5301.10	1.10	1.77	5.37	0.45	5301.55	0.000	30.000	5300.60	5301.70	1.10**	1.77	5.36	0.45	5302.15	0.000	0.000	n/a	1.50	0.67
2	15	6.00	5307.60	5308.49	0.89°	0.94	6.41	0.52	5309.01	0.000	214.600	5309.75	5310.74	0.99**	1.04	5.76	0.52	5311.28	0.000	0.000	n/a	1.00	0.52
3	15	6.00	5309.75	5310.74	6.99*	1.04	5.7 6	0.52	5311.2 6	0.000	163.000	5311.38	5312.37	0.99**	1.04	5.76	0.52	5312.89	0.000	0.000	n/a	0.15	80.0
4	15	5.00	5311.38	5312.37	0.99	0.95	4.80	0.43	5312.80	0.000	32.800	5311.70	5312.61 j	0.91**	0.95	5.25	0.43	5313.04	0.000	0.000	n/a	0.15	n/a
5	12	4.00	5311.70	5312.61	0.91	0.71	5.35	0.44	5313.05	0.942	41.800	5312.12	5312. 9 7 j	0.85**	0.71	5.63	0.49	5313. 45	1.015	0.978	0.409	0.44	0.22
6	12	4.00	5312.12	5313.19	1.00	0.79	5.09	0.40	5313.50	1.075	61.000	5312.73	5313.84	1.00	0.79	5.09	0.40	5314.25	1.075	1.075	0.656	0.15	0.06
7	12	3.50	5312.73	5313.90	1.00	0.79	4.46	0.31	5314.21	0.823	19.200	5312.92	5314.08	1.00	0.79	4.46	0.31	5314.37	0.823	0.823	0.158	0.15	0.05
8	12	1.00	5312.92	531 4 .11	1.00	0.31	1.27	0.03	5314.13	0.087	94.000	5313.85	5314.28 j	0.42**	0.32	3.17	0.16	5314. 44	0.486	0.277	0.260	1.00	0.16

Number of lines: 8

Notes: *Normal depth assumed.; ** Critical depth.; j-Line contains hyd. jump.; c = cir e = ellip b = box

Project File: 2047 Elan South.stm

Run Date: 10/1/2015



APPENDIX:

- Excerpts from the Master Drainage Report dated October 9, 2014
 - Cover
 - Proposed Conditions with comparison inset
 - Tract 3-B and 4-B Construction
 - Summary

MASTER DRAINAGE REPORT

Update to Master Drainage Report for Santa Monica Place, dated 02/21/12

FOR

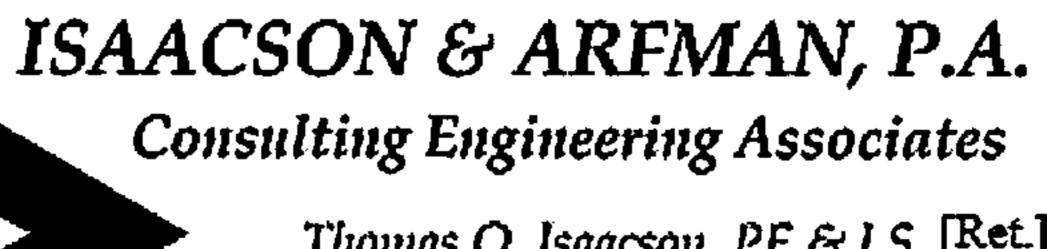
TRACTS 3-A, 3-B, 4-A, & 4-B SANTA MONICA PLACE (Replat of Tracts 3 & 4, Santa Monica Place)

Louisiana Blvd. and Derickson Ave. NE



Åsa Nilsson-Weber, P.E.

Date



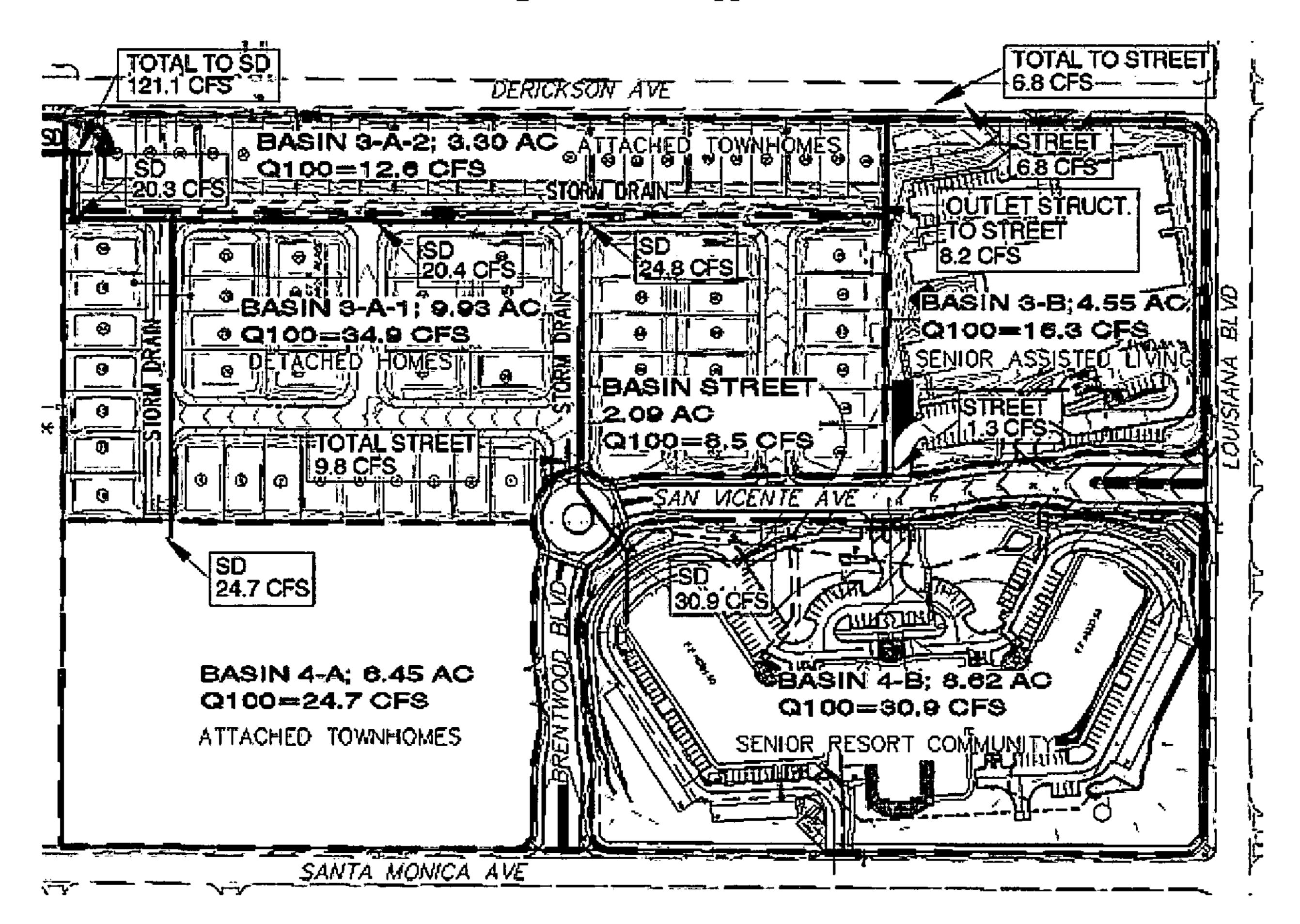
Thomas O. Isaacson, PE & LS [Ret.]
Fred C. Arfman, PE
Äsa Nilsson-Weber, PE

IV. PROPOSED CONDITIONS

Tract 3-B will be developed as an assisted living facility and Tract 4-B as a senior resort. Site plans and preliminary grading plans have been developed for both tracts. Tract 4-A will be developed with attached townhomes—there is currently no site plan for this tract. Tract 3-A will be developed with a mixture of attached townhomes and detached single-family homes—a preliminary layout has been developed.

San Vicente Ave. / Brentwood Blvd. will be constructed, including any required storm drain, rundowns and utilities. Work order plans are in the process of being prepared.

The 100-yr, 6-hr flow rates for each tract were calculated using AHYMO based on NOAA Atlas 14 rainfall data and assigned land treatments—see Appendix A. Tract 3-A was split into two basins—3-A-1 (single detached homes) and 3-A-2 (attached townhomes). The land treatments were based on the site plans for Tracts 3-B and 4-B, and per Table 5 from DPM Section 22.2 for the remaining tracts—see Appendix A.



Proposed Basin Exhibit

Per the AHYMO calculations for the developed property:

Q100 to Derickson (Basins 3 and 5) = 6.63 cfs (allowable = 6.8 cfs)

Q100 west (Basins 1 and 4) = 8.27 cfs (allowable = 8.2 cfs)

Q100 south to San Vicente Ave. (Basin 2) = 1.57 cfs (allowable = 1.3 cfs).

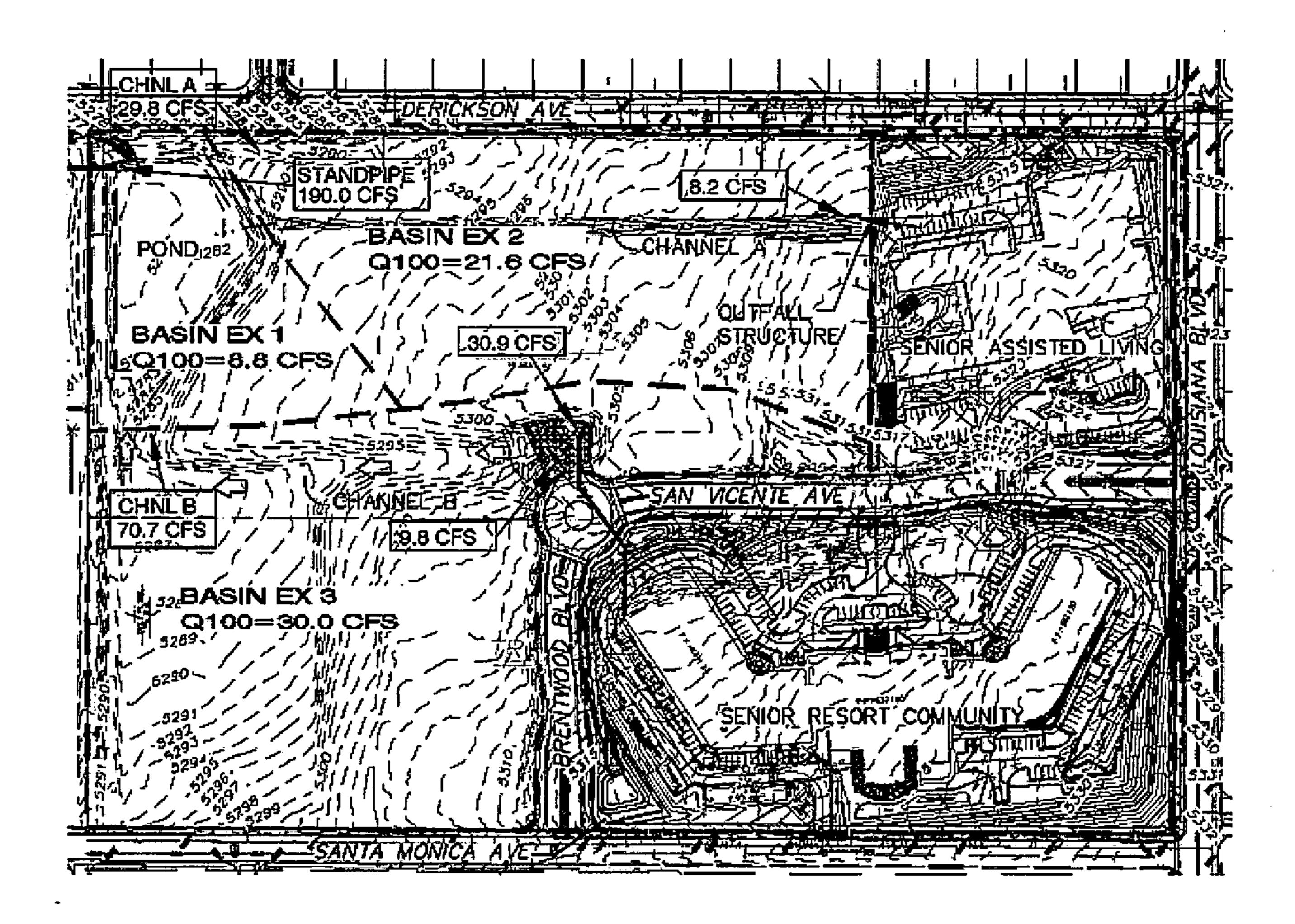
The minor difference in discharge to San Vicente Ave. and to the west storm drain will be factored into the final design for the future storm system (same owner).

TRACTS 3-B AND TRACT 4-B CONSTRUCTION

When Tract 3-B develops, an outfall structure shall be constructed to convey flows to the west at the future roadway alignment in Tract 3-A. An interim channel (Channel A) shall be graded to convey flows to the pond. See Appendix B for channel capacity calculations.

Upon development of Tract 4-B, the temporary standpipe shall be removed and the onsite storm drain system shall be connected to the 18" storm drain installed with the San Vicente Ave. and Brentwood Blvd. construction. The storm drain will continue to discharge into the existing channel and be directed to the pond via the existing channel (Channel B). The channel calculations were based on the narrowest section of the channel. See Appendix B for channel capacity calculations. Velocities in both channels are approximately 4.5 fps, which is non-erosive.

The earthen channels shall be maintained by the Owner of Tract 3-A until the subdivision storm drain system is constructed.



Interim Drainage Exhibit—Tracts 3-B and 4-B Construction

VI. SUMMARY

The following items shall be required for construction of each tract / street. Improvements are listed in the anticipated order of development of each tract.

SAN VICENTE AVE. / BRENTWOOD BLVD.

- Submit an interim grading & drainage plan to support the Public Work Order.
- Install a manhole and 24" storm drain (public) under roundabout.
- Install an 18" storm drain and a temporary standpipe (private) on Tract 4-B.
- Outlet erosion control north of the roundabout at Channel B.

TRACT 3-B

- Submit a grading & drainage plan including interim offsite channel grades to support the Building Permit.
- Construct outfall structure to convey flows west.
- Construct Channel A from Tract 3-B to the existing pond.

TRACT 4-B

- o Submit a grading & drainage plan to support the Building Permit.
- Remove temporary standpipe on Tract 4-B and connect the new onsite storm drain to the 18" storm drain installed with San Vicente Ave. and Brentwood Blvd. improvements.

TRACT 4-A

- Submit a grading & drainage plan to support the Public Work Order and Building Permit.
- Submit a drainage report with hydrology/hydraulic calculations including storm drain calculations.
- Install a storm drain stub to Tract 3-A for interim discharge to pond.
- Construct the infrastructure required for the development.

TRACT 3-A

- Submit a grading & drainage plan to support the Public Work Order and Building Permit Plans.
- Submit a drainage report with hydrology/hydraulic calculations, including storm drain calculations.
- Remove the rock in Channel B, existing pond and temporary standpipe.
- Construct the infrastructure required for the development, including the ultimate storm drain system.

CITY OF ALBUQUERQUE

June 24, 2015



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

RE: Elan-Santa Monica Place (Senior Assisted Living/Memory Care) 6901 San Vicente NE Grading and Drainage Plan Engineers Stamp Date 6/10/15 (D18D054B)

Dear Mr. Arfman,

Based upon the information provided in your submittal received 6/10/15 for the above mentioned plan dated 6/10/15 cannot be approved for Grading Permit or building permit until the following comments have been addressed.

- Roof flows must go through a pond before entering the storm sewer system.
- The pond on the west side of the building contains three different points of accepting flows which are not identified. The pad to the west of this pond, is this the emergency overflow? Provide a profile.
- Plan CG-502 shows a percolation pit, is this being used and where is it located?
- Provide a profile for the 24" RCP penetrating the retaining wall/s headed toward the temporary bubble up outlet.
- Provide the work order number and a detail for the three sidewalk culverts in Derickson Ave. Call out COA specification.

www.cabq.gov

New Mexico 87103

PO Box 1293

Albuquerque

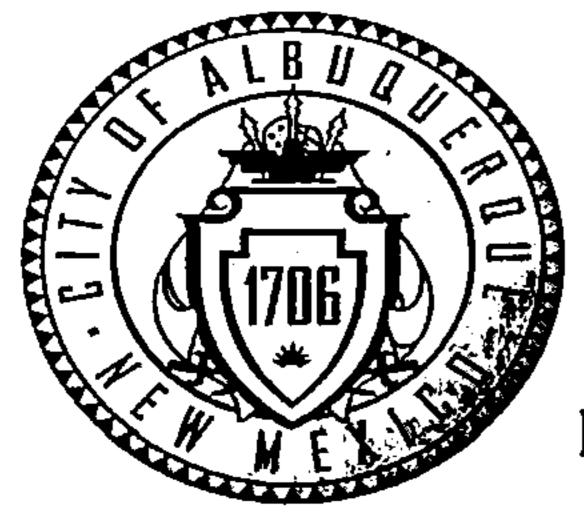
If you have any questions, please contact me at 924-3695 or Rudy Rael at 924-3977.

Sincerely,

4

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

RR/CC C: File



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: Elan - Santa Monica Place (Senior Assisted Livin	g/Memory Care) Building Permit #:	City Drainage #: D18 D054B
DRB#: 1003916 EPC#:		Work Order#:
Legal Description: The Eastern Portion of Tract 3, Sant	a Monica Place	
City Address:		
Engineering Firm: Isaacson & Arfman, P.A.		Contact: Åsa Nilsson-Weber
Address: 128 Monroe Street NE - Albu	aueraue. NM 87108	Contact. Asa Iviissoii- vv coci
Phone#: (505) 268-8828 Fax#:		E-mail: asaw@iacivil.com
Owner: Del Rey Investments, LLC		Contact: Kurt Browning
Address: 6300 Riverside Plaza Lane NW, Suite 200 -	Albuquerque, NM 87120	
Phone#: (505) 998-0163 Fax#:		E-mail:
Architect:		Contact:
Address:		
Phone#: Fax#:		E-mail:
Summers Sum Tok Inc		Contact: Russ P. Hugg
Surveyor: Surv-Tek, Inc. Address: 9384 Valley View Drive NW - Albuquerque,	NIM 87111	Contact: Russ F. Hugg
	5) 897-3377	E-mail:
Τποποπ. (σσσ) σστ σσσσ	7 001 0011	
Contractor:		Contact:
Address:		
Phone#: Fax#:	_	E-mail:
TYPE OF SUBMITTAL:	CHECK TYPE OF APPROV	AL/ACCEPTANCE SOUGHT:
X DRAINAGE REPORT	SIA/FINANCIAL GUARAN	TEE RELEASE
DRAINAGE PLAN 1st SUBMITTAL	PRELIMINARY PLAT APPI	ROVAL
X DRAINAGE PLAN RESUBMITTAL	S. DEV. PLAN FOR SUB'D	APPROVAL TE TE TO THE TOTAL TOTAL TOTAL TE TOTAL
CONCEPTUAL G & D PLAN	S. DEV. FOR BLDG. PERM	
X GRADING PLAN	SECTOR PLAN APPROVAI	-
EROSION & SEDIMENT CONTROL PLAN (ESC)	FINAL PLAT APPROVAL	
ENGINEER'S CERT (HYDROLOGY)	CERTIFICATE OF OCCUPA	NCY (PERMI) DEVELOPMENT SECTION (NCY (TCL VIEWE) DEVELOPMENT SECTION
CLOMR/LOMR	CERTIFICATE OF OCCUPA	DDCX/AI
TRAFFIC CIRCULATION LAYOUT (TCL) ENGINEER'S CERT (TCL)	FOUNDATION PERMIT AP X BUILDING PERMIT APPRO	INOVAL
ENGINEER'S CERT (TCL) ENGINEER'S CERT (DRB SITE PLAN)	GRADING PERMIT APPRO	
ENGINEER'S CERT (ESC)	PAVING PERMIT APPROV	
SO-19	WORK ORDER APPROVAL	
OTHER (SPECIFY)	GRADING CERTIFICATION	
WAS A PRE-DESIGN CONFERENCE ATTENDED:	Yes No Co	ppy Provided
DATE SUBMITTED: June 10, 2015	By: <u>Fred Arfman</u>	<u> </u>
	Isaacson & Afrman, P.A.	

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

- 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 subdivision containing more than ten (10) lots or constituting five (5) acres or more
- 4. Erosion and Sediment Control Plan: Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development

Bryan Bobrick

From:

Bryan Bobrick

bryanb@iacivil.com>

Sent:

Wednesday, June 10, 2015 9:46 AM

To:

'PLNDRS@cabq.gov'

Subject:

Hydrology Submittal for COA Drainage # D18/D054B - ELAN - TRACT 3-B, SANTA

MONICA PLACE

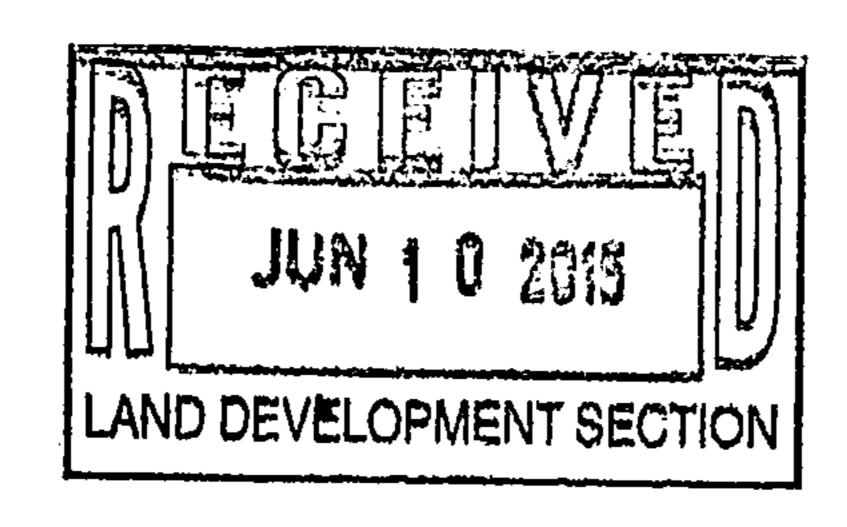
Attachments:

2047 DRAINAGE REPORT 06-09-2015.pdf; 2047 ELAN SUBMITTAL 06-09-2015.pdf

Bryan J. Bobrick

Isaacson & Arfman, P.A.
Consulting Engineering Associates
128 Monroe St. N.E.
Albuquerque, NM 87108

Phone: (505)268-8828 Fax: (505)268-2632 bryanb@iacivil.com



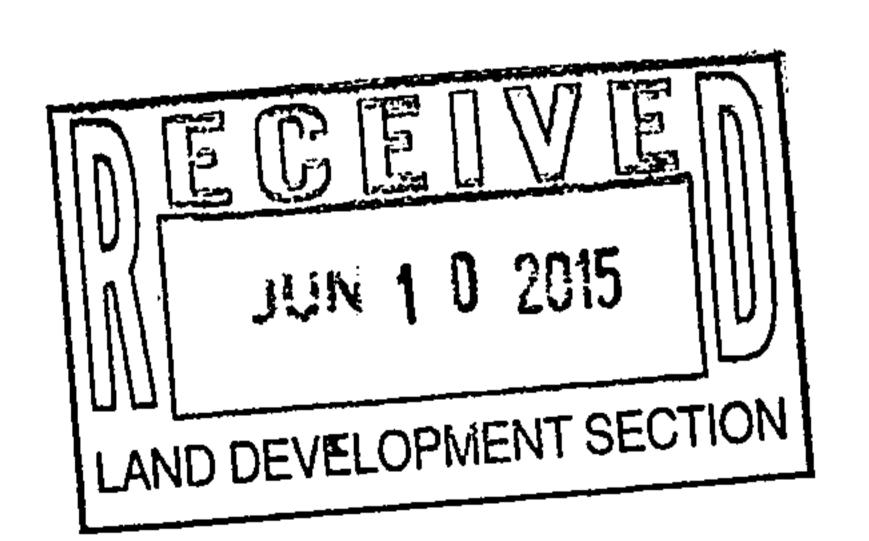
JUNE 9, 2015

Supplemental Information for

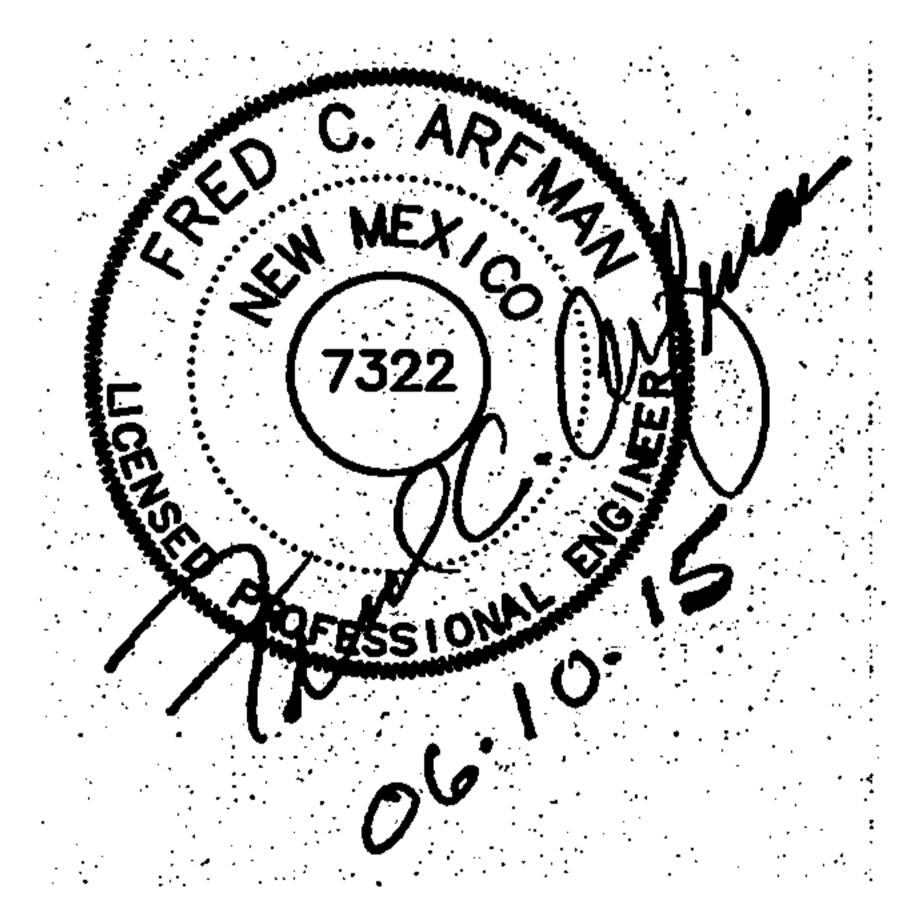
for

TRACT 3-B SANTA MONICA PLACE DRAINAGE AND GRADING PLAN

1&A PROJECT NO. 2047



By

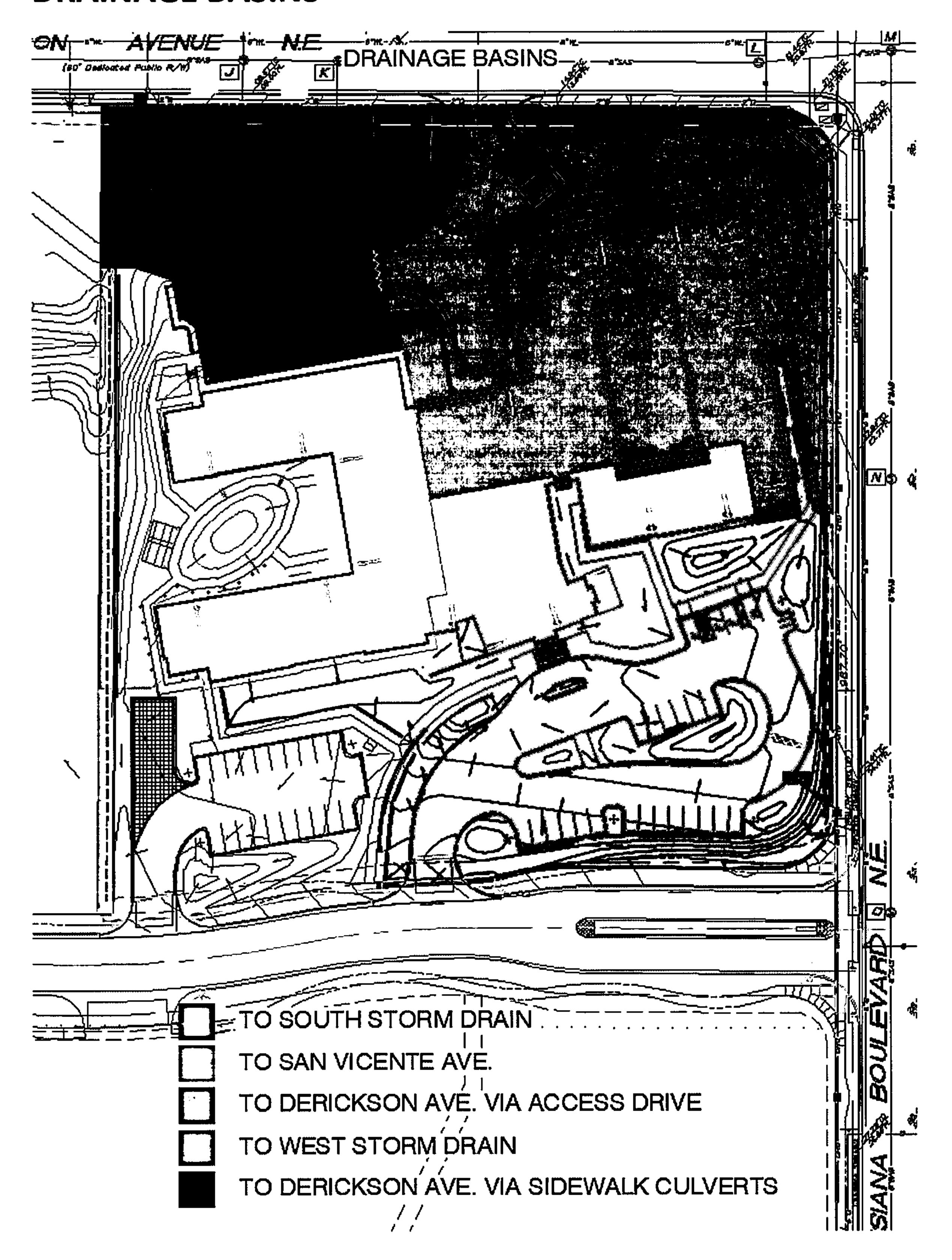


ISAACSON & ARFMAN, P.A.

Consulting Engineering Associates

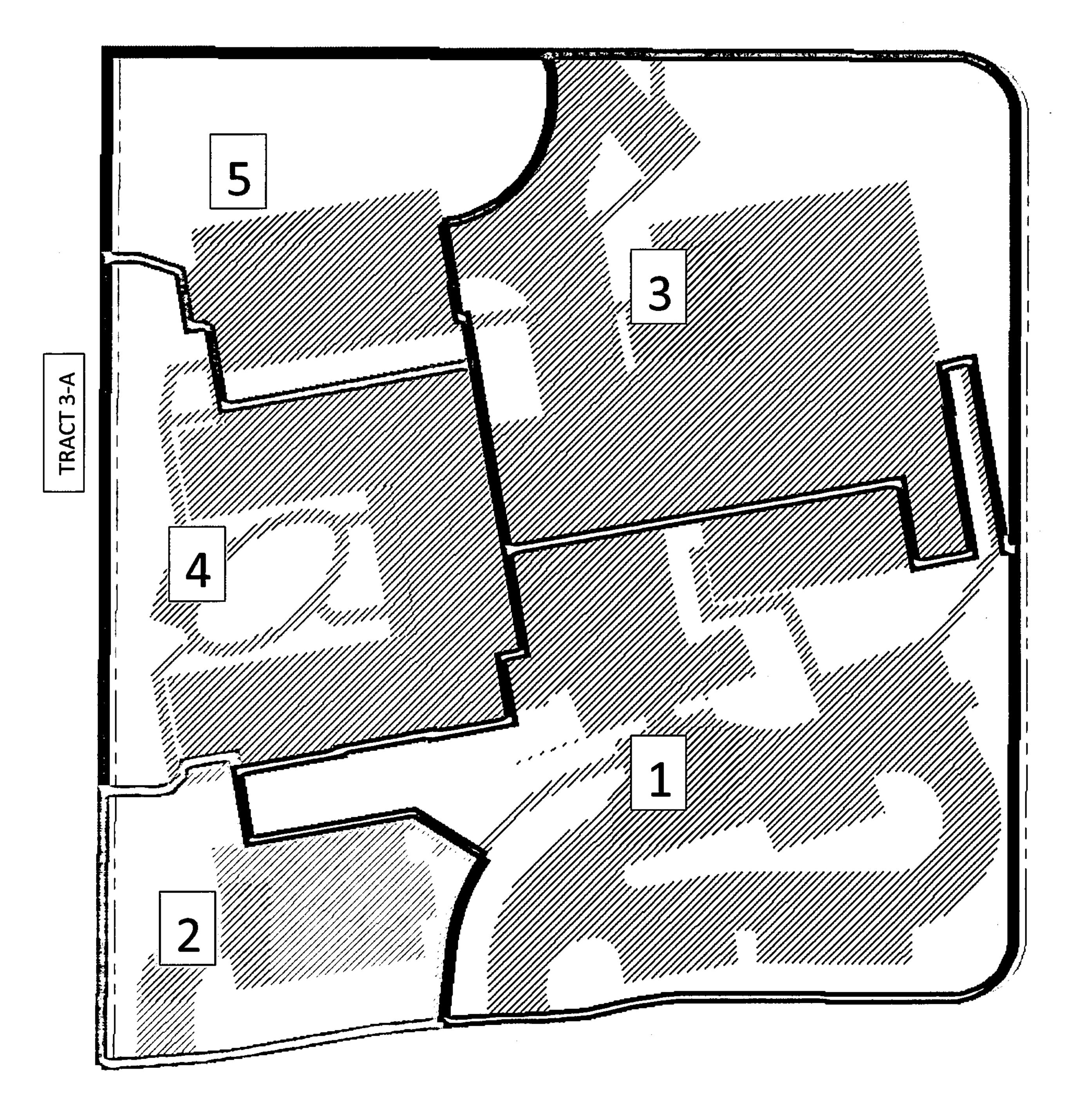
Thomas O. Isaacson, PE(RET.) & LS(RET.)
Fred C. Arfman, PE
Åsa Nilsson-Weber, PE

DRAINAGE BASINS

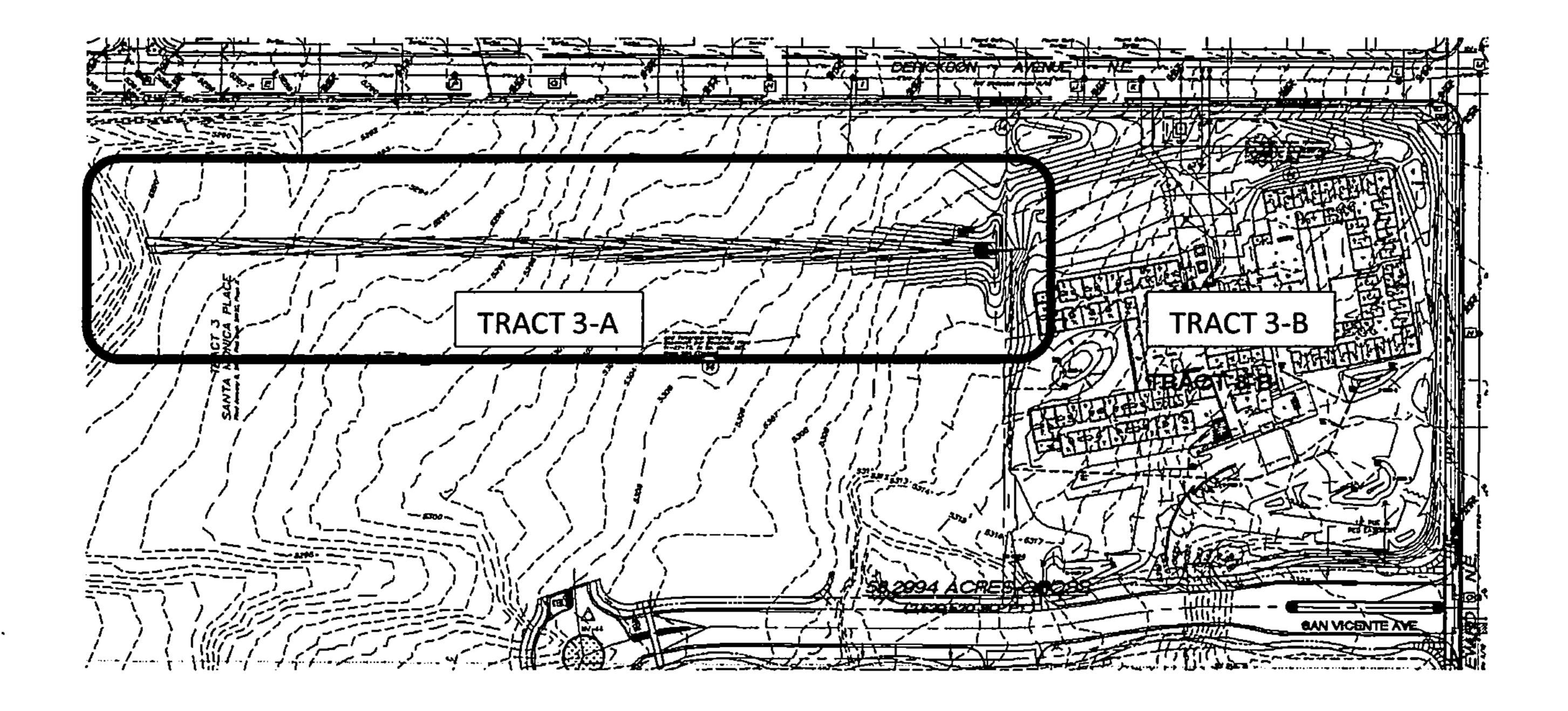


DRAINAGE BASINS WITH

IMPERVIOUS AREAS:



PERMISSION TO GRADE ON TRACT 3-A GRANTED BY PLAT



DRAINAGE EASEMENT NOTES

A. There is an existing interim Cross Lot Drainage Easement granted by plat filed January 6, 2012 in Plat Book 2012C, Page 2 for the mutual benefit of the owners of Tracts 1 thru 4 until future development occurs. Tracts 1 thru 4 will discharge drainage to the existing drainage facilities/outfalls located at the intersection of Derickson and San Pedro as outlined in the Conceptual Drainage Report prepared by Isaacson & Arfman, P.A. dated 12-2-11. Owners/Developers of any of the tracts are allowed to grade interim drainage facilities such as grading, berming, ponding or outfall structures on adjacent undeveloped property and will be maintained by the benefiting tract owner until such time that future development (TBD) of the undeveloped property is complete and applicable interim facilities are no longer required. Notwithstanding anything herein to the contrary, the interim Cross Lot Drainage Easement may not be terminated without the approval of the City Engineer.

Said Easement within Tracts 3 and 4, Santa Monice Place is VACATED by 14DRB-

B. A New Public and Private Interim Drainage Easement shall be granted by this plat over Tract 3—A, for the benefit of Tracts 3—B, 4—A and 4—B. Owners of said Tracts 3—B, 4—A and 4—B shall be allowed to grade Interim Drainage Facilities on Tract 3—A. Said Interim Drainage Facilities shall be maintained by the owner of Tract 3—A until such time that future development (TBD) of Tract 3—B is complete and applicable Interim Facilities are no longer required.

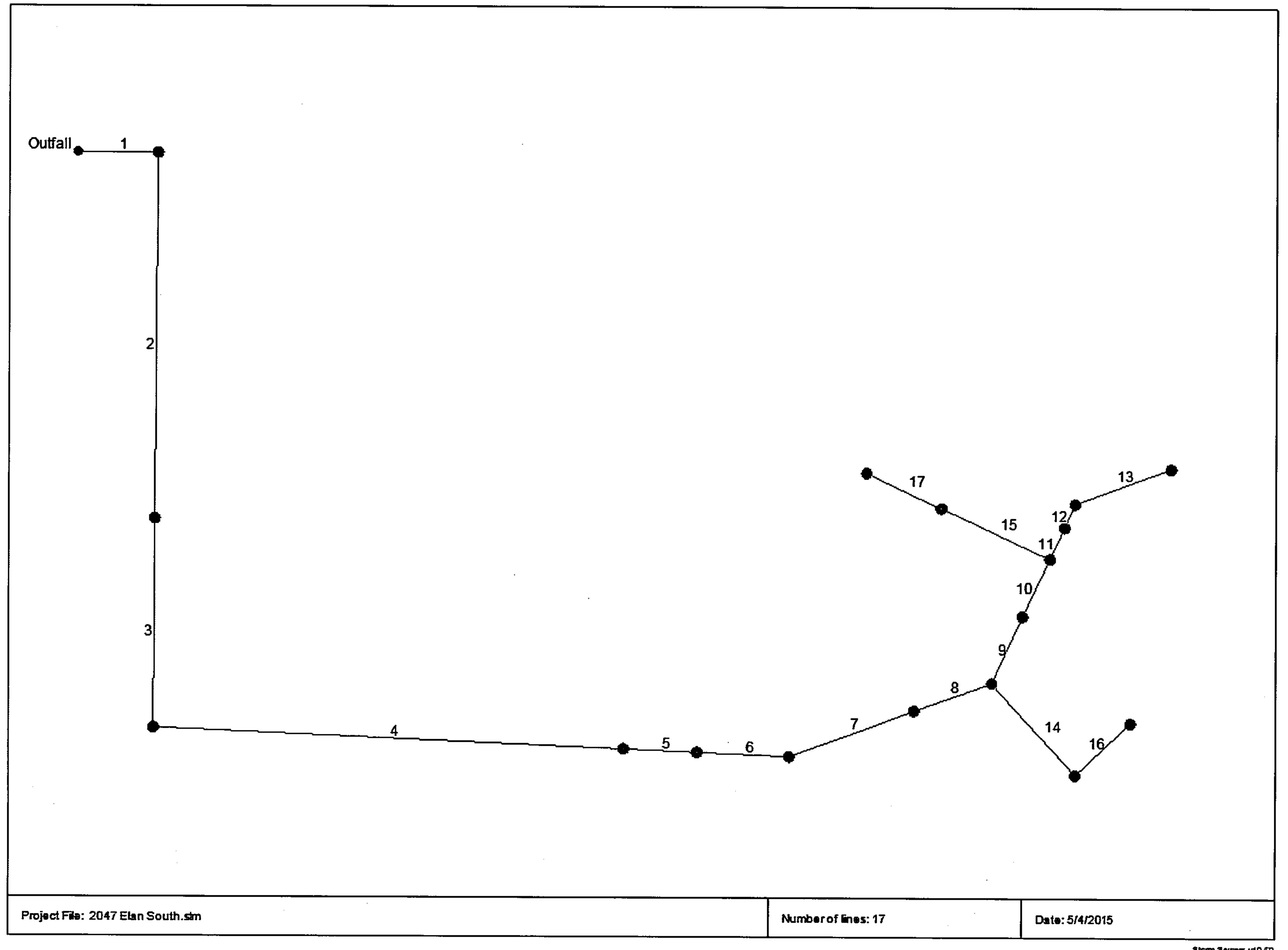
DRAINAGE BASIN / FIRST FLUSH CALCULATIONS

BASINAO		DESCRIPTION		10 SOUTH STOR	M DRAIN,	1.
Area of basin flows =	62758	SF	=	1.4 Ac.		
The following calculation	ons are based on	Treatment areas as shown in t	able to the right	LAND TR	EATMENT	
	Sub-basin Weig	hted Excess Precipitation (see	formula above)	A =	0%	
	Weighted E	= 1.81 in	1.	B=	22%	
	Sub-basin Volun	ne of Runoff (see formula abov	'e)	C=	. 22%	1
	V360	= 9455	CF	D=	56%	
	Sub-basin Peak	Discharge Rate: (see formula a	bove)	FIRST FLU	JSH VOL.	
	QP	= 6.0	cfs		996 CF	
BASIN NO. 2		DESCRIPTION		TO SAN VICEN	TEAVE	
Area of basin flows =	19099	SF	=	0.4 Ac.		
The following calculation	ons are based on	Treatment areas as shown in ta	able to the right	LAND TR	EATMENT	
	Sub-basin Weig	hted Excess Precipitation (see	formula above)	A =	0%	
	Weighted E	= 1.76 in	1	$\mathbf{B} =$	24%	
	Sub-basin Volun	ne of Runoff (see formula abov	re)	C=	24%	
	V ₃₆₀	= 2797	CF	D≔	52%	
	Sub-basin Peak	Discharge Rate: (see formula a	bove)	FIRST FLU	JSH VOL.	
	QP	= 1.8	cfs		281 CF	
BASINNO		DESCRIPTION	-TO DER	TOKSY NOW I		
Area of basin flows =	53746		=	1.2 Ac.		****
	ons are based on	Treatment areas as shown in t	able to the right	LAND TR	EATMENT	
	Sub-basin Weigi	hted Excess Precipitation (see	formula above)	A =	0%	
	Weighted E	<u>*</u>		B =	18%	
	Sub-basin Volun	ne of Runoff (see formula abov	re)	C=	18%	
	V360	= 8546	CF	D=	64%	
	Sub-basin Peak	Discharge Rate: (see formula a	bove)	FIRST FLU	JSH VOL.	
	Q _P	= 5.3	cfs		975 CF	
BASIN NO. 4	· · · · · · · · · · · · · · · · · · ·	DESCRIPTION	•	TO WEST STORN	M DRAIN	
Area of basin flows =	35828	SF	=	0.8 Ac.		
		Treatment areas as shown in ta	able to the right		EATMENT	
		hted Excess Precipitation (see	_	A ==	0%	
	Weighted E	•		$\mathbf{B} =$	19%	
	Sub-basin Volun	ne of Runoff (see formula abov	re)	C≕	19%	
	V360	= 5622	CF	D =	62%	
	Sub-basin Peak	Discharge Rate: (see formula a	bove)	FIRST FLU	JSH VOL.	
	Qp	= 3.5	cfs		629 CF	
BASIN NO. 5	•	DESCRIPTION	TO DERICKS	SON A VE. VIA SI	DEWALK CULVERTS	
Area of basin flows =	26901	SF	=	0.6 Ac.		
		Treatment areas as shown in ta	able to the right		EATMENT	
		hted Excess Precipitation (see	_	A =		
	Weighted E	· · · · · · · · · · · · · · · · · · ·	 1	$\mathbf{B} =$	34%	
	Sub-basin Volun	ne of Runoff (see formula abov		C=	34%	
	V ₃₆₀	= 3377	CF	D =	32%	
	Sub-basin Peak	Discharge Rate: (see formula a	bove)	FIRST FLU	JSH VOL.	
	Qp	= 2.3	cfs		244 CF	
						

	SUMMARY TABLE (m:\PROJECTS\2000		•	CS\2047DEV.I		S4.01a, Rel:		RUN DATE JSER NO.= 2	•	•	
		FROM	TO		PEAK	RUNOFF		TIME TO	CES	PAGE =	1
	HYDROGRAPH	ID	ID	AREA	DISCHARGE	VOLUME	RUNOFF	PEAK	PER		
COMMAND	IDENTIFICATION	NO.	NO.	(SQ MI)	(CFS)	(AC-FT)	(INCHES)	(HOURS)	ACRE	NOTATIO	NC
*5********	********	****	****	******	*******	*****					
*S	SANTA MONICA PLA	CE									
	TRACT 3-B										
	100-YEAR, 6-HOUR	STORM									
	2047DEV.DAT										
*S											
*S	BY BRYAN BOBRICK										
*S	ISAACSON & ARFMA	N, P.A									
*S	MAY, 2015	•									
*S********	***********	****	****	*****	*****	****					
*S								•			
*S Rainfal	l distribution b	ased o	n NOAA At	clas 14 maps	3						
*S Latit	ude=35.1625 Lo	ngitud	e=-106.57	741							
*S		_									
*S*******	*****	****	****	******	******	****					
START									T	IME=	0.00
RAINFALL TYP	E= 1 NOAA 14					•			R	AIN6=	2.410
*S BASIN	1										
COMPUTE NM HY	D 51		1	0.00225	5.21	0.194	1.61419	1.533	3.616 P	ER IMP=	56.00
*S BASIN	2										
COMPUTE NM HY	52	_	2	0.00069	1.57	0.057	1.56517	1.533	3.580 P	ER IMP=	52.00
*S BASIN	3										
001/DIDD 10/			_				1 71774	1.533	2 245 5		
COMPUTE NM HY	D 53	-	3	0.00193	4.62	0.176	1.71224	1.555	3./43 E	ER IMP=	64.00
*S BASIN		_	3	0.00193	4.62	0.176	1./1224	1.555	3.743 E	EK TWE=	64.00
	4	_	3 4	0.00193	4.62 3.06	0.176 0.116	1.68773	1.533		ER IMP=	64.00 62.00
*S BASIN	4 D 54		_								

FINISH

Hydraflow Storm Sewers Extension for Autodesk® AutoCAD® Civil 3D® Plan



Lin e No.	Area Dn	Area Up	Byp Ln No	Coeff C1	Coeff C2	Coeff C3	Capac Full	Crit Depth	Cross SI, Sw	Cross SI, Sx	Curb Len	Defi Ang	Depth Dn	Depth Up	DnStm Ln No	Drng Area	Easting X	EGL Dn	EGL Up	Energy Loss	
	(sqft)	(sqft)		(C)	(C)	(C)	(cfs)	(ft)	(ft/ft)	(fVft)	(ft)	(Deg)	(ft)	(ft)		(ac)	(ft)	(ft)	(ft)	(ft)	
1	1.77	1.77	Sag	0.20	0.50	0.90	41.29	1.10	0.020	0.020	••••	0.477	1.10	1.10**	Outfall	0.00	1545212.12	5301.55	5302.55	0.000	
2	1.23	1.23	1	0.20	0.50	0.90	6 .98	1.12	••••	****		89.890	1.25	1.25	1	0.00	1545211.25	5309.49	5311.32	1.830	
3	1.23	1.23	2	0.20	0.50	0.90	7.00	0.99	••••	••••	****	-0.092	1.25	1.25	2	0.00	1545210.88	5311.11	5311. 69	0.574	
4	1.23	1.23	3	0.20	0.50	0.90	7.00	0.97	••••	••••	••••	-87.788	1.25	1.25	3	0.00	154538625	5312.04	5313.24	1.207	
5	0.79	0.79	4	0.20	0.50	0.98	3.82	0.93	••••	••••	••••	0.113	1.00	1.00	4	0.00	1545413.75	5313.66	5314.18	0.520	
6	0.79	0.79	5	0.20	0.50	0.90	3.89	0.87	****			-0.104	1.00	1.00	5	0.00	1545448.13	5314.04	5314.47	0.428	
7	0.79	0.79	6	0.20	0.50	0.90	3.83	0.87	••••	***	••••	-22. 6 17	1.00	1.00	6	0.00	1545494.88	5314.67	5315.29	0.619	
8	0.79	0.79	7	0.20	0.50	0.90	3.89	0.83	••••	****	••••	0.195	1.00	1.00	7	0.00	1545523.50	5315.26	5315.55	0.295	
9	0.79	0.79	8	0.20	0.50	0.90	3.82	0.37	••••	****	••••	-45.13 9	1.00	1.00	8	0.00	1545535.13	5315.55	5315.58	0.012	
10	0.79	0.79	9	0.20	0.50	0.90	3.88	0.37	••••	••••		0.005	1.00	1.00	9	0.00	1545545.13	5315.56	5315.58	0.010	
11	0.35	0.35	10	0.20	0.50	0.90	1.31	0.33	****	****	••••	0.140	0.67	0.67	10	0.00	1545550,63	5315.61	5315. 6 3	0.019	
12	0.35	0.35	11	0.20	0.50	0.90	1.33	0.33	••••	****		-0.516	0.67	0.67	11	0.00	1545554.63	5315. 6 3	5315.65	0.014	
13	0.35	0.35	12	0.20	0.50	0.90	1.30	0.33	••••	****		45.488	0. 6 7	0. 6 7	12	0.00	1545590.75	5315.67	5315.73	0.056	
14	0.79	0.79	8	0.20	0.50	0.90	5.72	0.74	****	••••	****	6 7.545	1.00	1.00	8	0.00	1545554.75	5315.76	5316.04	0.280	
15	0.35	0.35	10	0.20	0.50	0.90	1. 9 8	0.25	••••	••••	••••	-8 9.96 6	0.67	0.67	10	0.00	1545505.24	5315.59	5315.61	0.023	
16	0.79	0.79	14	0.20	0.50	0.90	5.59	0.52	••••	•	••••	-9 0.318	1.00	1.00	14	0.00	1545575.75	5316.10	5316.14	0.043	
17	0.35	0.28	15	0.20	0.50	0.90	1.98	0.14	••••		****	-0.058	0.67	0.50	15	0.00	1545476.99	5315.60	5315. 6 0	0.002	
															-						

Project File: 2047 Elan South.stm

Number of lines: 17

Date: 5/4/2015

NOTES: ** Critical depth

APPENDIX:

- Excerpts from the Master Drainage Report dated October 9, 2014
 - Cover
 - Proposed Conditions with comparison inset
 - Tract 3-B and 4-B Construction
 - Summary

MASTER DRAINAGE REPORT

Update to Master Drainage Report for Santa Monica Place, dated 02/21/12

FOR

TRACTS 3-A, 3-B, 4-A, & 4-B SANTA MONICA PLACE (Replat of Tracts 3 & 4, Santa Monica Place)

Louisiana Blvd. and Derickson Ave. NE



Åsa Nilsson-Weber, P.E.

Date



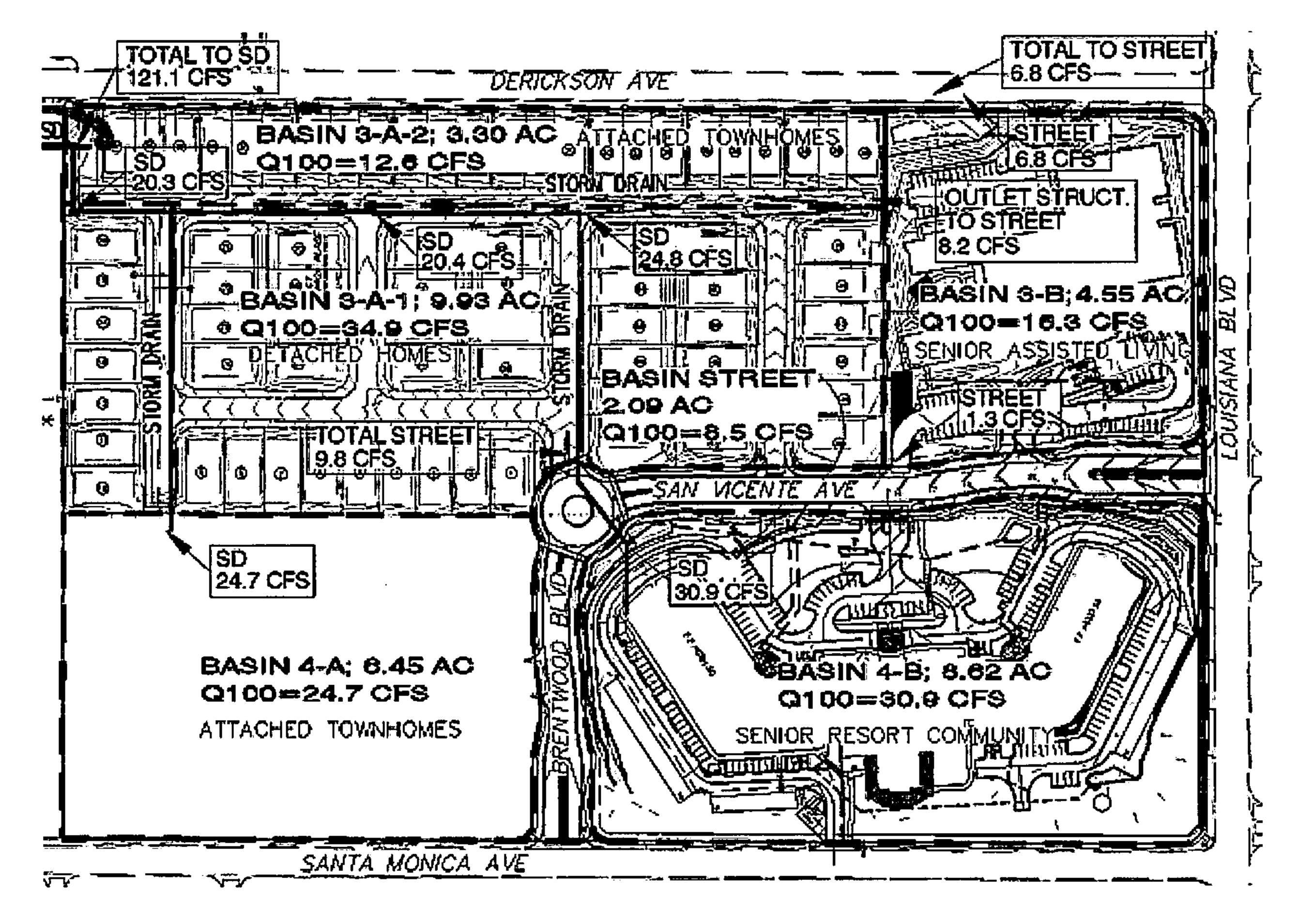
Thomas O. Isaacson, PE & LS [Ret.]
Fred C. Arfman, PE
Äsa Nilsson-Weber, PE

IV. PROPOSED CONDITIONS

Tract 3-B will be developed as an assisted living facility and Tract 4-B as a senior resort. Site plans and preliminary grading plans have been developed for both tracts. Tract 4-A will be developed with attached townhomes—there is currently no site plan for this tract. Tract 3-A will be developed with a mixture of attached townhomes and detached single-family homes—a preliminary layout has been developed.

San Vicente Ave. / Brentwood Blvd. will be constructed, including any required storm drain, rundowns and utilities. Work order plans are in the process of being prepared.

The 100-yr, 6-hr flow rates for each tract were calculated using AHYMO based on NOAA Atlas 14 rainfall data and assigned land treatments—see Appendix A. Tract 3-A was split into two basins—3-A-1 (single detached homes) and 3-A-2 (attached townhomes). The land treatments were based on the site plans for Tracts 3-B and 4-B, and per Table 5 from DPM Section 22.2 for the remaining tracts—see Appendix A.



Proposed Basin Exhibit

Per the AHYMO calculations for the developed property:

Q100 to Derickson (Basins 3 and 5) = 6.63 cfs (allowable = 6.8 cfs)

Q100 west (Basins 1 and 4) = 8.27 cfs (allowable = 8.2 cfs)

Q100 south to San Vicente Ave. (Basin 2) = 1.57 cfs (allowable = 1.3 cfs).

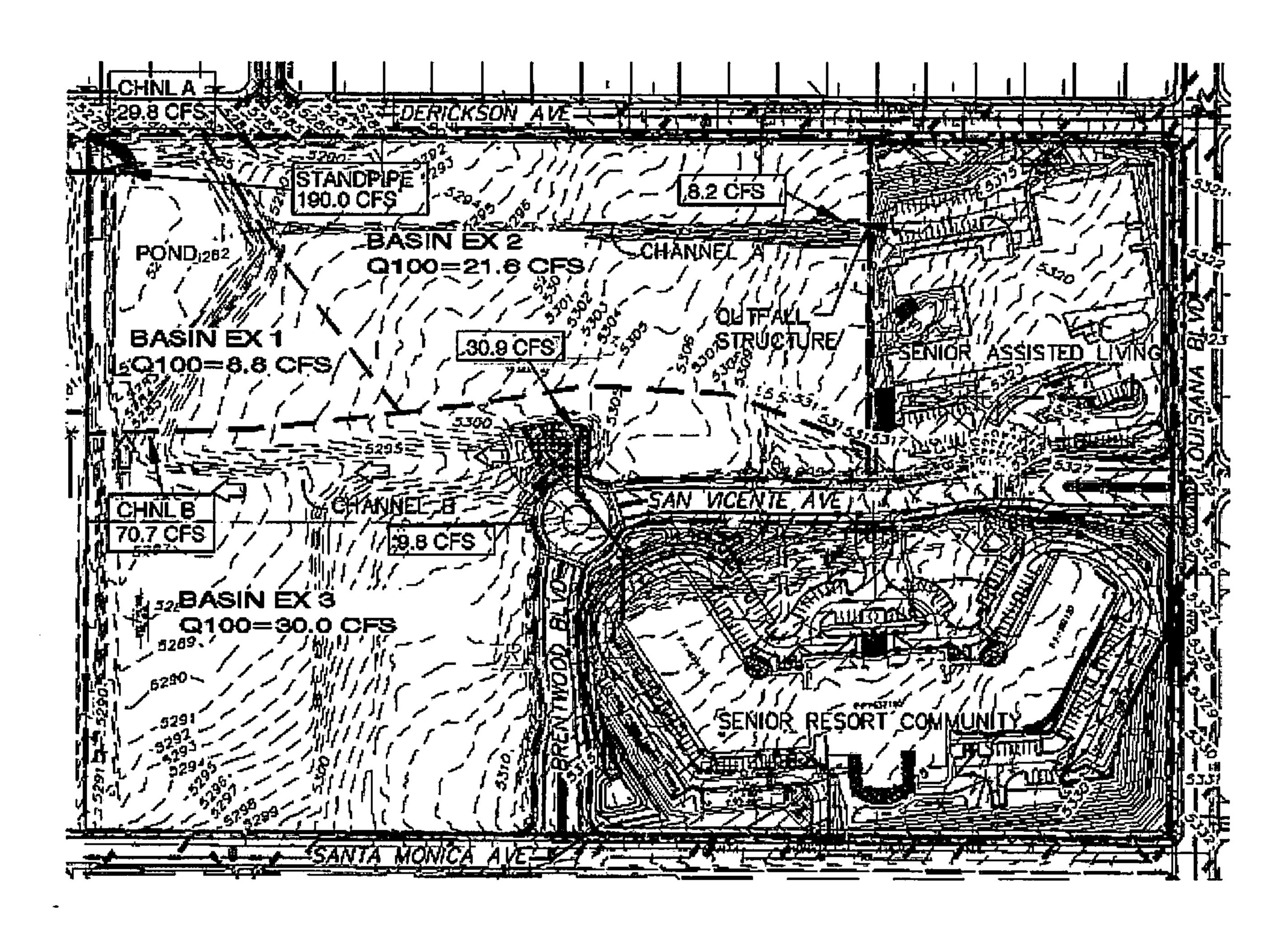
The minor difference in discharge to San Vicente Ave. and to the west storm drain will be factored into the final design for the future storm system (same owner).

TRACTS 3-B AND TRACT 4-B CONSTRUCTION

When Tract 3-B develops, an outfall structure shall be constructed to convey flows to the west at the future roadway alignment in Tract 3-A. An interim channel (Channel A) shall be graded to convey flows to the pond. See Appendix B for channel capacity calculations.

Upon development of Tract 4-B, the temporary standpipe shall be removed and the onsite storm drain system shall be connected to the 18" storm drain installed with the San Vicente Ave. and Brentwood Blvd. construction. The storm drain will continue to discharge into the existing channel and be directed to the pond via the existing channel (Channel B). The channel calculations were based on the narrowest section of the channel. See Appendix B for channel capacity calculations. Velocities in both channels are approximately 4.5 fps, which is non-erosive.

The earthen channels shall be maintained by the Owner of Tract 3-A until the subdivision storm drain system is constructed.



Interim Drainage Exhibit—Tracts 3-B and 4-B Construction

VI. SUMMARY

The following items shall be required for construction of each tract / street. Improvements are listed in the anticipated order of development of each tract.

SAN VICENTE AVE. / BRENTWOOD BLVD.

- Submit an interim grading & drainage plan to support the Public Work Order.
- Install a manhole and 24" storm drain (public) under roundabout.
- Install an 18" storm drain and a temporary standpipe (private) on Tract 4-B.
- Outlet erosion control north of the roundabout at Channel B.

TRACT 3-B

- Submit a grading & drainage plan including interim offsite channel grades to support the Building Permit.
- Construct outfall structure to convey flows west.
- Construct Channel A from Tract 3-B to the existing pond.

TRACT 4-B

- o Submit a grading & drainage plan to support the Building Permit.
- Remove temporary standpipe on Tract 4-B and connect the new onsite storm drain to the 18" storm drain installed with San Vicente Ave. and Brentwood Blvd. improvements.

TRACT 4-A

- Submit a grading & drainage plan to support the Public Work Order and Building Permit.
- Submit a drainage report with hydrology/hydraulic calculations including storm drain calculations.
- Install a storm drain stub to Tract 3-A for interim discharge to pond.
- Construct the infrastructure required for the development.

TRACT 3-A

- Submit a grading & drainage plan to support the Public Work Order and Building Permit Plans.
- Submit a drainage report with hydrology/hydraulic calculations, including storm drain calculations.
- Remove the rock in Channel B, existing pond and temporary standpipe.
- Construct the infrastructure required for the development, including the ultimate storm drain system.



October 27, 2014

Ms. Asa Weber, PE Isaacson & Arfman, PA 1287 Monroe Street NE Albuquerque, NM 87108

Re:

Elan – Santa Monica Place, Tract 3B Conceptual Grading and Drainage Plan No Engineer's Date (D18D054B)

Dear Ms. Weber,

Based upon the information provided in your submittal received 10-24-14, the above referenced plan is approved for Site Development Plan for Building Permit action by DRB..

If you have any questions, you can contact me at 924-3994.

Sincerely,

Amy L. D. Niese, P.E.

Senior Engineer, Hydrology

Planning Department

PO Box 1293

Albuquerque

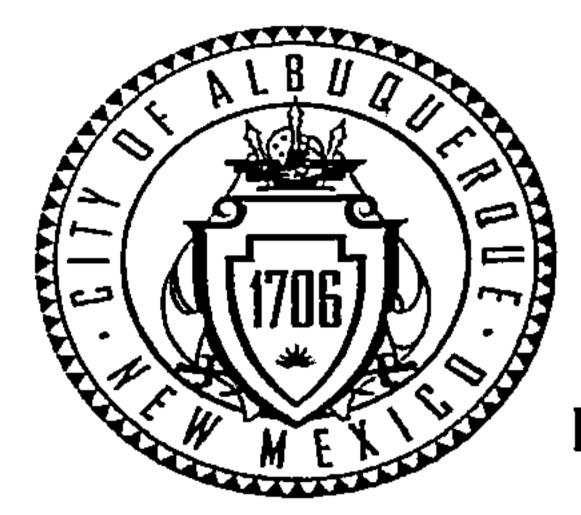
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New Mexico 87103

C:

e-mail

www.cabq.gov



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: Elan - Santa Monica Place (Senior Assisted Living/Memory Care) Building Permit	#: City Drainage #: D18 D054B
DRB#: 1003916 EPC#:	Work Order#:
Legal Description: The Eastern Portion of Tract 3, Santa Monica Place	<u> </u>
City Address:	
Engineering Firm: Isaacson & Arfman, P.A.	Contact: Åsa Nilsson-Weber
Engineering Firm: Isaacson & Arfman, P.A. Address: 128 Monroe Street NE - Albuquerque, NM 87108	TISE I VIDOOII VV OOOI
Phone#: (505) 268-8828 Fax#:	E-mail: asaw@iacivil.com
	C44 Kurt Prowning
Owner: Del Rey Investments, LLC	Contact: Kurt Browning
Address: 6300 Riverside Plaza Lane NW, Suite 200 - Albuquerque, NM 87120 Phone#: (505) 998-0163 Fax#:	E-mail:
Phone#: (505) 998-0163 Fax#:	1. Titait.
Architect:	Contact:
Address:	<u>. </u>
Phone#: Fax#:	E-mail:
Surveyor: Surv-Tek, Inc.	Contact: Russ P. Hugg
Address: 9384 Valley View Drive NW - Albuquerque, NM 87114	
Phone#: (505) 897-3366 Fax#: (505) 897-3377	E-mail:
	Contact:
Contractor:	Contact.
Address:Fax#:	E-mail:
	OVAL/ACCEPTANCE SOUGHT:
DRAINAGE REPORT SIA/FINANCIAL GUAR	
DRAINAGE PLAN 1st SUBMITTAL PRELIMINARY PLAT A	
DRAINAGE PLAN RESUBMITTAL S. DEV. PLAN FOR SET	APPROVAL COLLEGIO
X CONCEPTUAL G & D PLAN Resubmittal X S. DEV. FOR FURTHER	
GRADING PLAN SECTOR PLAN APPRO	
EROSION & SEDIMENT CONTROL PLAN (ESC) FINAL PLAT APPROXO	ET 2.4, 2040]///
ENGINEER'S CERT (HYDROLOGY) CERTIFICATE OF OCC	TIPANCY (TCL TEMEN
CLOMR/LOMRCERTIFICATEVOFIDES	LORMENT
TRAFFIC CIRCULATION LAYOUT (TCL) FOUNDATION PERMIT	
ENGINEER'S CERT (TCL) BUILDING PERMIT AP	
ENGINEER'S CERT (DRB SITE PLAN) GRADING PERMIT AP	
ENGINEER'S CERT (ESC) PAVING PERMIT APPL	
SO-19 WORK ORDER APPRO	
OTHER (SPECIFY) GRADING CERTIFICA	TION OTHER (SPECIFY)
WAS A PRE-DESIGN CONFERENCE ATTENDED: Yes No	Copy Provided
DATE SUBMITTED: October 24, 2014 By: Asa Nilsson-Weber	<u> </u>
Isaacson & Afrman, P.A. Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a dr	ainage 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 followin

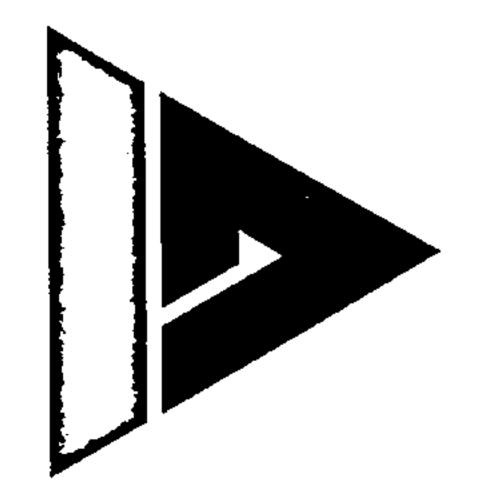
Conceptual Grading and Drainage Plan: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans

2. Drainage Plans: Required for building permits, grading permits, paving permits and site plans less than five (5) acres

Drainage Report: Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more

Erosion and Sediment Control Plan: Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development

AD= 2.37 FRE



A Transmittal From

Isaacson & Arfman, P.A.

Consulting Engineering Associates

TO: Amy Niese, PE
City of Albuquerque
Hydrology

DATE: 10/24/14

JOB NO: 2047

FROM: Åsa Nilsson-Weber

REFERENCE: Elan, Santa Monica Place--D18D054B

WE ARE SENDING YOU ATTACHED THE FOLL	OWING ITEMS:
Conceptual Grading & Drainage Plan.	
Corrobean Craning of District Control of Con	**** ****** **************************
Your comments from October 21, 2014 h	nave been addressed as follows:
_1Discharge rates were revised per MDI	R.————————————————————————————————————
	ntified; first flush retention areas identified;
volumes provided shall be provided with	
3. A second sheet was added to show th	e onsite chamie.
THIS INFORMATION IS TRANSMITTED:	
As per your request	For your files
Tor your review and approval	For your use
For your information	Dlease review and return
For your attention	For return to your files
For your signature	Dlease advise
COMMENTS	
	OCT 2 4 2014 LAND DEVELOPMENT SECTION
RECEIVED BY:	
DATE:	TIME:
COPIES TO:	

7-166 Var-162 = 8.16 A=2(2/8/16)=12.8 uP = 2(8.16) = 16.32S=0185 n=03 $\hat{Q} = 1.49(12.8)(.78)^{2/3} \sqrt{.0185}/.03 = 73.54 GES/$ >8-2c5 17 2920 RAD Manotive + areas providal best no volo.



October 21, 2014

Mr. Fred C. Arfman, PE Isaacson & Arfman, PA 1287 Monroe Street NE Albuquerque, NM 87108

Re: Elan – Santa Monica Place Conceptual Grading and Drainage Plan No Engineer's Date (D18D054B)

Dear Mr. Arfman,

Based upon the information provided in your submittal received 10-16-14, the above referenced plan is not approved for Site Development Plan action by DRB nor Building Permit. Address the following comments:

1. The Master Drainage Report for Tracts 3A, 3B, 4A, and 4B has been approved. The report specifies the drainage development parameters for the proposed Tract 3B (Elan's tract). Show how the site is meeting those requirements. All basins shown on this plan are discharging more than is allowable by the MDR. The allowable discharge for this site is 16.3 cfs not 23.8 cfs. Revise the calculations and narrative accordingly. Make sure the AHYMO run and the basin descriptions match also.

2. A discussion of the First Flush has been added to the plans. The volume required and the volume provided should be included also. Do you have sufficient room for the First Flush with the current site plan?

Per the City Drainage ordinance, the 90th Percentile Storm Event, which is 44 inches, is to be managed. Reduce 0.44 inch by the 0.1 inch for the initial impervious abstraction in Table A-6 of Section 22 of the DPM. Multiply the remaining 0.34 inch by your impervious area. This is the portion to retain.

3. Include the design for Channel A on Tract 3A with your Grading and Drainage Plan.

If you have any questions, you can contact me at 924-3994.

Sincerely,

Amy L. D. Niese, P.E. Senior Engineer, Hydrology Planning Department

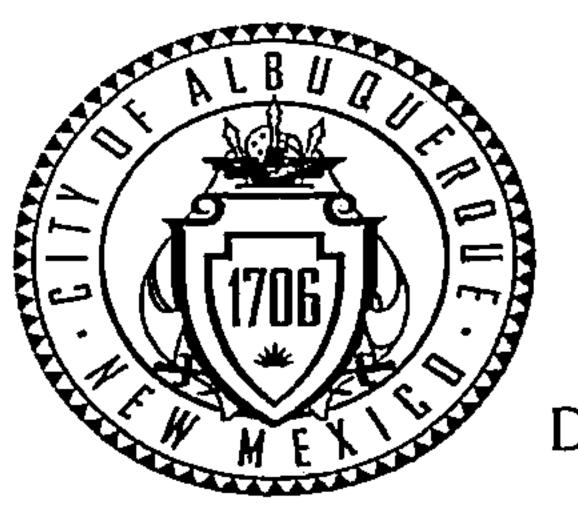
PO Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

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City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

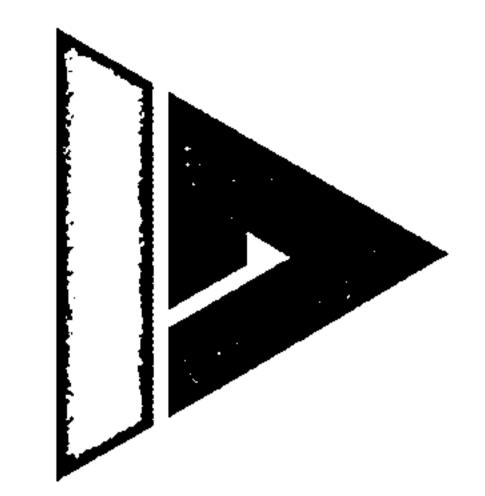
D18D054B

Project Title: Elan - Santa Monica Place (Senior Assisted Living/Men	mory Care) Building Permit #: City Drainage #: D18/054C
DRB#: 1003916 EPC#:	Work Order#:
Legal Description: The Eastern Portion of Tract 3, Santa Mo	nica Place
City Address:	
Engineering Firm: Isaacson & Arfman, P.A.	Contact: Fred C. Arfman
Address: 128 Monroe Street NE - Albuquero	E-mail: freda@iacivil.com
Phone#: (505) 268-8828 Fax#:	E-mail: ireua@iacivii.com
Owner: Del Rey Investments, LLC	Contact: Kurt Browning
Address: 6300 Riverside Plaza Lane NW, Suite 200 - Albu	iquerque, NM 87120
Phone#: (505) 998-0163 Fax#:	E-mail:
Architect:	Contact:
Address:	
Phone#:	E-mail:
Surveyor: Surv-Tek, Inc.	Contact: Russ P. Hugg
Address: 9384 Valley View Drive NW - Albuquerque, NM	
Phone#: (505) 897-3366 Fax#: (505) 897	7-3377 E-mail:
Contractor:	Contact:
Address:	
Phone#: Fax#:	E-mail:
TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:
DRAINAGE REPORT	SIA/FINANCIAL GUARANTEE RELEASE
DRAINAGE PLAN 1st SUBMITTAL	PRELIMINARY PLAT APPROVAL
DRAINAGE PLAN RESUBMITTAL	S. DEV. PLAN FOR SUB'D AP ROVATO [] [] [] [] [] []
X CONCEPTUAL G & D PLAN Resubmittal	S. DEV. FOR BLDG. PERMIT APPROVALUE LIVE LIVE
GRADING PLAN	SECTOR PLAN APPROVAL
EROSION & SEDIMENT CONTROL PLAN (ESC)	FINAL PLAT APPROVAL OCT 1 6 2014
ENGINEER'S CERT (HYDROLOGY)	CERTIFICATE OF OCCUPANO (PERM)
CLOMR/LOMR	CERTIFICATE OF OCCUPANO KANDIDEWEDPMENT SECTION
TRAFFIC CIRCULATION LAYOUT (TCL)	FOUNDATION PERMIT APPROVAL
ENGINEER'S CERT (TCL)	K_BUILDING PERMIT APPROVAL
ENGINEER'S CERT (DRB SITE PLAN)	GRADING PERMIT APPROVAL SO-19 APPROVAL
ENGINEER'S CERT (ESC)	PAVING PERMIT APPROVAL ESC PERMIT APPROVAL
SO-19	WORK ORDER APPROVAL ESC CERT. ACCEPTANCE
OTHER (SPECIFY)	GRADING CERTIFICATION OTHER (SPECIFY)
WAS A PRE-DESIGN CONFERENCE ATTENDED:	Yes No Copy Provided
DATE SUBMITTED: October 15, 2014 By:	Fred C. Arman, PE
	Isaacson & Afrman, P.A.

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
- 2. Drainage Plans: Required for building permits, grading permits, paving permits and site plans less than five (5) acres
- 3. Drainage Report: Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more
- 4. Erosion and Sediment Control Plan: Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development

AD = ? PREE



A Transmittal From

Isaacson & Arfman, P.A. Consulting Engineering

TO:

COA Hydrology Attn: Amy Niese, PE

DATE: 15 October 2014

JOB NO:

FROM:

WE ARE SENDING YOU ATTACHED TH	IE FOLLOWING ITEMS:
1 updated Conceptual G&D Plan – see co	mment below
	······································
	·
	, , , , , , , , , , , , , , , , , , ,
	······································
THIS INFORMATION IS TRANSMITTED	
As per your request	For your files
For your review and approval	For your use
For your information	Please review and return
For your attention	For return to your files
For your signature	Please advise
COMMENTS	
The grading and drainage concept and over	
As noted on the plan, the 'first flush' will l	
As noted on the plan, the first flush will i	DECEVE OPMENT SECTION
ECEIVED BY:	



August 13, 2014

Mr. Fred C. Arfman, PE Isaacson & Arfman, PA 1287 Monroe Street NE Albuquerque, NM 87108

Re: Elan – Santa Monica Place

Conceptual Grading and Drainage Plan

No Engineer's Date (D18D054B)

Dear Mr. Arfman,

Based upon the information provided in your submittal received 7-14-14, the above referenced plan is approved for Site Development Plan action by EPC. Address the following comments with the DRB submittal:

1. Previously, you had received Hydrology comments for EPC regarding this site. The comments were to manage the first flush and provide calculations on a revised Conceptual Grading and Drainage Plan. The purpose of this comment was to make sure you had sufficient room with the proposed layout for the water harvesting. Although conceptual water harvesting ponds are shown, no calculations were provided with the resubmittal. Please provide them with the next submittal.

Per the City Drainage ordinance, the 90th Percentile Storm Event, which is 44 inches, is to be managed. Reduce 0.44 inch by the 0.1 inch for the initial impervious abstraction in Table A-6 of Section 22 of the DPM. Multiply the remaining 0.34 inch by your impervious area. This is the portion to retain.

2. Isaacson and Arfman prepared the Santa Monica Tracts 1-4 Master Drainage Report which was approved and which includes the area of this site. The MDP included provisions for the development of Tracts 3 and 4. However, the MDP did not address further subdivision of Tracts 3 and 4 which was not expected at that time. Update the MDP to reflect the proposed subdivision of Tracts 3 and 4. Discuss which property or properties that will be responsible for installing the proposed 42 inch and 36 inch storm drain across Tract 3 and removing the existing pond and storm pipe on Tract 3. Also address the interim conditions as each smaller tract develops without the others developing.

Although Tracts 1 through 4 have a cross-lot drainage easement from the Bulk Land Plat, provide a low erosive interim solution such as rip-rap for drainage from the proposed Tract 3B to the existing standpipe in the current Tract 3.

San Vicente Avenue was not included in the basins for this site. Include San Vicente Avenue in the basin and flow analysis when updating the MDP.

3. Per the Santa Monica Tracts 1-4 Master Drainage Report, the allowable discharge for Tract 3, which is 19.36 acres, is 79.2 cfs or 4.09 cfs/acre. Since this proposed development is 4.6 acres, the allowable discharge is 18.8 cfs not 23.8 cfs as described in the summary. The actual proposed discharge in your summary is 18.7 cfs which is

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New Mexico 87103

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- below the allowable 18.8 cfs. Revise the summary to reflect the allowable amount as 18.8 cfs.
- 4. The AHYMO run shows Basin 1 as 7.8 cfs, Basin 2 as 9.3 cfs, and Basin 3 as 1.6 cfs. However, the flows under the basin descriptions in the grading part of the plan are different and total more than 18.8 cfs. Revise the descriptions to reflect the correct flows.
- 5. How much flow is coming from the offsite basin for Tract 4? How are you addressing those historical flows on your site until Tract 4 and San Vicente Avenue is developed?

If you have any questions, you can contact me at 924-3994.

Sincerely,

Amy L. D. Niese, P.E.

Senior Engineer, Hydrology

Planning Department

PO Box 1293

Albuquerque

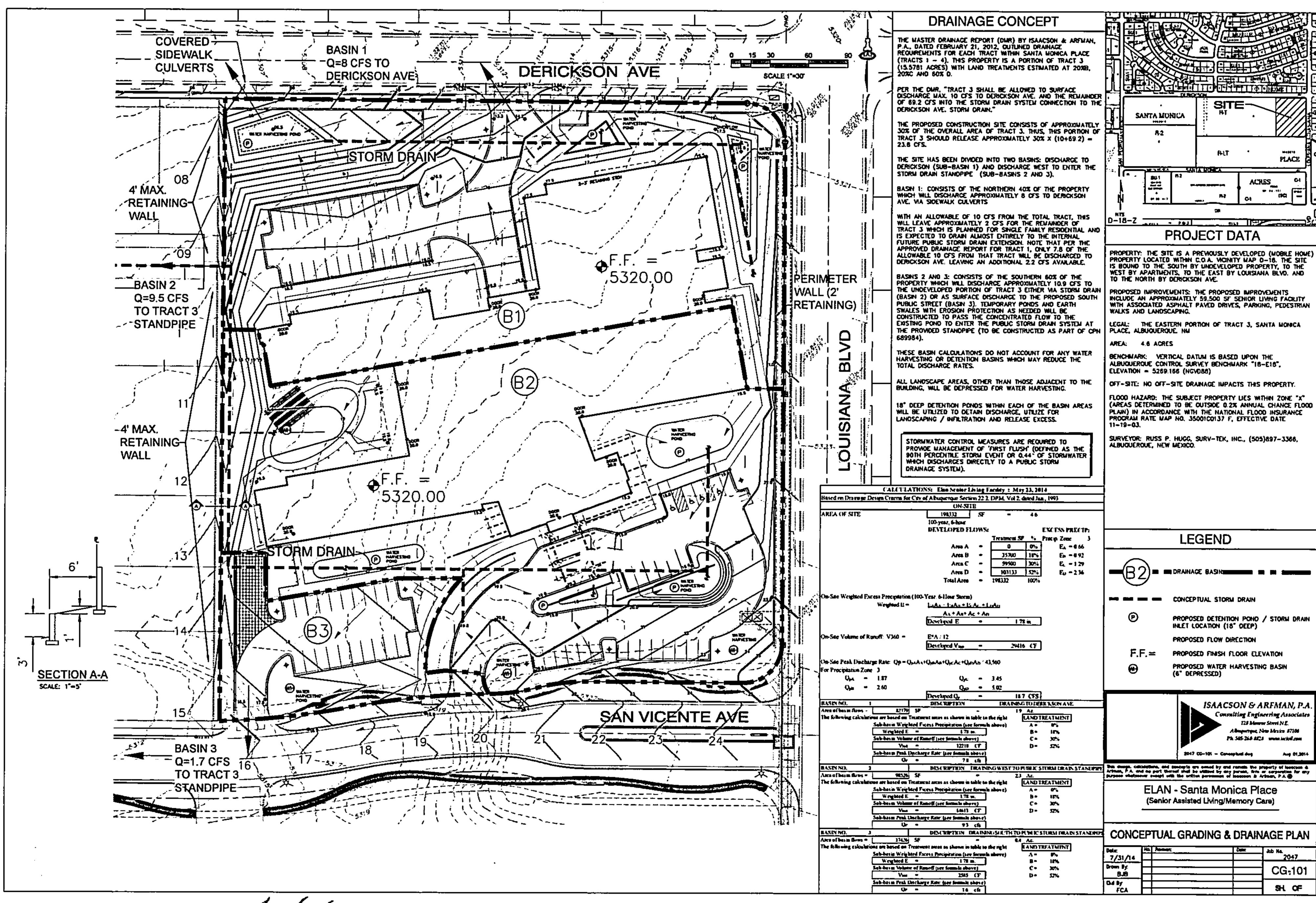
C: e-mail

New Mexico 87103

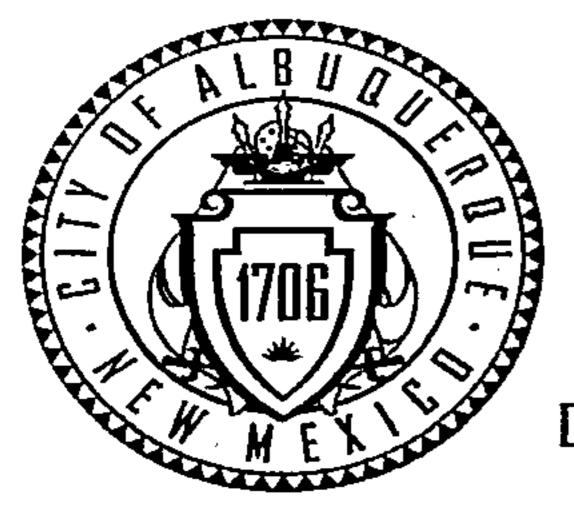
file

www.cabq.gov

Tract 3B(N)
Elan Santa Moneca Place D180054B
A = 4.6 AC
Par MDP Tract 3: 19.36 Ac 79.2 CFS
$\frac{79.2}{19.36} = 4.09 \text{ cfs/ac}$
: THE WHEN A = 4.6AC -> 18.8 CFS illowed
Deport Seeping Besin 1 (7.8) cfs to Denckson
Busin 2 - 4.3 cfs to STAND PIPE Tracks
Basin 3 = 1. Bits "
18.7 19.5 cfs \$ 18.8 V
Tract 3-A will be allowed
10-7.8 = 2.2 cfs
Cross-let drainage coscment icross all Frank.
Allows grading also.
· San Vicente Are 15 mostly pret of Tract 4
- A = 4.6 80 allowable O shouldbe 18.8 cfs
· Water harvesting Cales
o Don bass should matel D in AHMO run
" Only allowed & sets mountil
Clearles show how aftern Basen 2+3 Sleves
to standpipe
Mer
$A_{D} = 2.37 \text{ AC} \hat{\omega} = 18.7$



SOM 8/12/14



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: Elan - Santa Monica Place (Ser	nior Assisted Living/Memory Care) Building Per	rmit #: City Drainage #: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
DRB#: 1003916	EPC#:	Work Order#:
Legal Description: The Eastern Portion of	· · · · · · · · · · · · · · · · · · ·	
City Address:		
Engineering Firm: Isaacson & Arfman,		Contact: Fred C. Arfman
	treet NE - Albuquerque, NM 87108	
Phone#: (505) 268-882	28 Fax#:	E-mail: <u>freda@iacivil.com</u>
Owner: Del Rey Investments, LLC		Contact: Kurt Browning
Address: 6300 Riverside Plaza Lane N	NW, Suite 200 - Albuquerque, NM 87120	
Phone#: (505) 998-0163	Fax#:	E-mail:
Architect:		Contact:
Address:		
Phone#:	Fax#:	E-mail:
Surveyor: Surv-Tek, Inc.		Contact: Russ P. Hugg
Address: 9384 Valley View Drive NW -		
Phone#: (505) 897-3366	Fax#: (505) 897-3377	E-mail:
Contractor:		Contact:
Address:		
Phone#:	Fax#:	E-mail:
TYPE OF SUBMITTAL:	CHECK TYPE OF A	PPROVAL/ACCEPTANCE SOUGHT:
DRAINAGE REPORT		JARANTEE RELEASE
DRAINAGE PLAN 1st SUBMITTAL	PRELIMINARY PLA	AT APPROVAL
DRAINAGE PLAN RESUBMITTAL	S. DEV. PLAN FOR S	SUB'D APPROVAL
X CONCEPTUAL G & D PLAN	S. DEV. FOR BLDG.	PERMIT APPROVAL DEDETIVE
GRADING PLAN	SECTOR PLAN APP	ROVAL IIII III III III III IIIIIIIIIIIIIII
EROSION & SEDIMENT CONTROL	PLAN (ESC)FINAL PLAT APPRO	OVAL
ENGINEER'S CERT (HYDROLOGY)		CCUPANCY (PERM) JUL 1 4 2014
CLOMR/LOMR		OCCUPANCY (TCL TEMP)
TRAFFIC CIRCULATION LAYOUT		
ENGINEER'S CERT (TCL)	X BUILDING PERMIT	
ENGINEER'S CERT (DRB SITE PLA		
ENGINEER'S CERT (ESC)	PAVING PERMIT AI	
SO-19 OTHER (SPECIEV)	WORK ORDER APP GRADING CERTIFIC	
OTHER (SPECIFY)	GKADING CEKTIFIC	CATION UTTER (SPECIFI)
WAS A PRE-DESIGN CONFERENCE ATT	TENDED: Yes No	Copy Provided
DATE SUBMITTED: July 11, 2014	By: Fred C. Arman, PE	
Dequests for approvals of Cita Davidson and Diana	Isaacson & Afrman, P.A	A. a drainage submittal. The particular nature location, and

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

- 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 subdivision containing more than ten (10) lots or constituting five (5) acres or more
- 4. Erosion and Sediment Control Plan: Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development

Bryan Bobrick

From:

Sims, Timothy E. <tsims@cabq.gov>

To:

Bryan Bobrick

Sent:

Monday, July 14, 2014 7:06 AM

Subject:

Read: Elan Senior Living - Hydrology Submittal

Your message

To: Sims, Timothy E.; Cherne, Curtis

Cc: 'Fred Arfman'

Subject: Elan Senior Living - Hydrology Submittal

Sent: Fri, 11 Jul 2014 14:17:45 -0600

was read on Mon, 14 Jul 2014 07:06:29 -0600

