

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

September 23, 2022

Åsa Nilsson-Weber, P.E.
Isaacson & Arfman, P.A.
128 Monroe St. N.E
Albuquerque, NM 87108

RE: Alameda West Pond Certification
Engineer's Certification Date: 09/15/22
Hydrology File: B14D001B

Dear Ms. Nilsson-Weber:

Based on the Certification received 09/21/2022 and site visit on 9/23/22, this certification is accepted by Hydrology with the condition that prior to Permanent Certificate of Occupancy for Tract C commercial development of Alameda West Shopping Center, that all items outlined in the Engineer's Certification will be constructed.

If you have any questions, please contact me at 924-3995 or rbrissette@cabq.gov.

Sincerely,

Renée C. Brissette, P.E. CFM
Senior Engineer, Hydrology
Planning Department

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

Project Title: Alameda West Pond **Building Permit #** _____ **Hydrology File #** B14D001

DRB# _____ **EPC#** _____

Legal Description: Tract C, Alameda West **City Address OR Parcel** 10127 Coors Blvd. NW

Parcel: 101406516235720225

Applicant/Agent: Isaacson & Arfman, Inc.

Contact: Åsa Nilsson-Weber

Address: 128 Monroe Street NE

Phone: (505) 268-8828

Email: asaw@iacivil.com

Applicant/Owner: Alamo Center, LLC

Contact: Art Gardenswartz

Address: 13405 Pino Ridge Place NE - 87111

Phone: _____

Email: _____

TYPE OF DEVELOPMENT: PLAT (#of lots) RESIDENCE ☒ **DRB SITE** ADMIN SITE: _____

RE-SUBMITTAL: YES ☒ NO

DEPARTMENT: TRANSPORTATION ☒ HYDROLOGY/DRAINAGE

Check all that apply:

TYPE OF SUBMITTAL:

- ☒ **ENGINEER** ARCHITECT CERTIFICATION
- ☐ PAD CERTIFICATION
- ☐ CONCEPTUAL G&D PLAN
- ☐ GRADING PLAN
- ☐ DRAINAGE REPORT
- ☐ DRAINAGE MASTER PLAN
- ☐ FLOOD PLAN DEVELOPMENT PERMIT APP.
- ☐ ELEVATION CERTIFICATE
- ☐ CLOMR/LOMR
- ☐ TRAFFIC CIRCULATION LAYOUT (TCL) ADMINISTRATIVE
- ☐ TRAFFIC CIRCULATION LAYOUT FOR DRB APPROVAL
- ☐ TRAFFIC IMPACT STUDY (TIS)
- ☐ STREET LIGHT LAYOUT
- ☐ OTHER (SPECIFY) _____
- ☐ PRE-DESIGN MEETING?

TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

- ☐ BUILDING PERMIT APPROVAL
- ☐ CERTIFICATE OF OCCUPANCY
- ☐ CONCEPTUAL TCL DRB APPROVAL
- ☐ PRELIMINARY PLAT APPROVAL
- ☐ SITE PLAN FOR SUB'D APPROVAL
- ☐ SITE PLAN FOR BLDG PERMIT APPROVAL
- ☐ FINAL PLAT APPROVAL
- ☐ SIA/RELEASE OF FINANCIAL GUARANTEE
- ☐ FOUNDATION PERMIT APPROVAL
- ☐ GRADING PERMIT APPROVAL
- ☐ SO-19 APPROVAL
- ☐ PAVING PERMIT APPROVAL
- ☒ GRADING PAD CERTIFICATION
- ☐ WORK ORDER APPROVAL
- ☐ CLOMR/LOMR
- ☐ FLOOD PLAN DEVELOPMENT PERMIT
- ☐ OTHER (SPECIFY) _____

DATE SUBMITTED: September 16, 2022



For more current information and details visit: www.cabq.gov/gis

Address Map Page:

B-14-Z

Map Amended through:
1/29/2016

AGIS
Albuquerque Geographic Information System

Note: Gray Shading
Represents Area Outside
of the City Limits

N

0 750 1,500 Feet

These addresses are for informational
purposes only and are not intended
for address verification.

Drainage Calculations

ALAMEDA WEST - TRACT C				
Hydrology Calculations				
Date: November 11, 2003				
DPM - Section 22.2				
Volume 2, January 1993:				
Precipitation Zone	1			
100 Year Storm Depth, P (360)	2.2			
100 year Storm Depth, P (10 day)	3.67			
Treatment Area	A	B	C	D
Excess Precipitation Factors	0.44	0.67	0.99	1.97
Peak Discharge Factors	1.29	2.03	2.87	4.37
Land Treatment Area	Acres	Existing	Proposed	
Type "D" (Roof)		0.00	0.38	
Type "C" (Unpaved Roadway)		0.00	0.00	
Type "B" (Irrigated Lawns)		0.00	0.48	
Type "A" (Undeveloped)		0.86	0.00	
Total (Acres)		0.86	0.86	
Excess Precipitaion(in)		0.44	1.25	
Volume (100), cf		1379.98	3899.13	
Volume (10),cf		924.59	2612.42	
Volume (100,10 day), cf		1379.98	5937.52	
Q (100), cfs		1.11	2.64	
Q (10), cfs		0.75	1.77	

Drainage Narrative

THE PURPOSE OF THIS GRADING AND DRAINAGE PLAN IS TO RECLAIM THE PROPERTY HEREIN FOR DEVELOPMENT, ORIGINALLY DESIGNATED AS A DRAINAGE POND OF THE ALAMEDA WEST SHOPPING CENTER. SEE DRAINAGE REPORT.

Pond Volume

FLUSH POND
IMPERVIOUS AREA — 0.38 x 43560 = 16552.8 SF

PONDING REQUIRED — $16552.8 \times \frac{34}{12} = 468.99$ CF

PONDING PROVIDED:

A26.2 = 936.97 SF
A26.7 = 1079.25 SF
VOL 26.5 & 27: $936.97 + 1079.25 = \frac{2016.22}{2} \times 0.5 = 504.05$ CF

WATER SURFACE ELEV = 5027.00 + 4.19 = 5031.19 (SEE AHYMO)

Legend

— 5005 —	EXISTING CONTOUR
— 05 —	NEW CONTOUR
FF EL	FINISH FLOOR ELEVATION
TC	TOP OF CURB ELEVATION
FL	FLOWLINE ELEVATION
SD1	EXISTING STORM DRAIN
— — — — —	DIRECTION OF FLOW

Project Benchmark

THE PROJECT BENCHMARK IS A FOUND NMDOT MONUMENT "MS-448-N12"

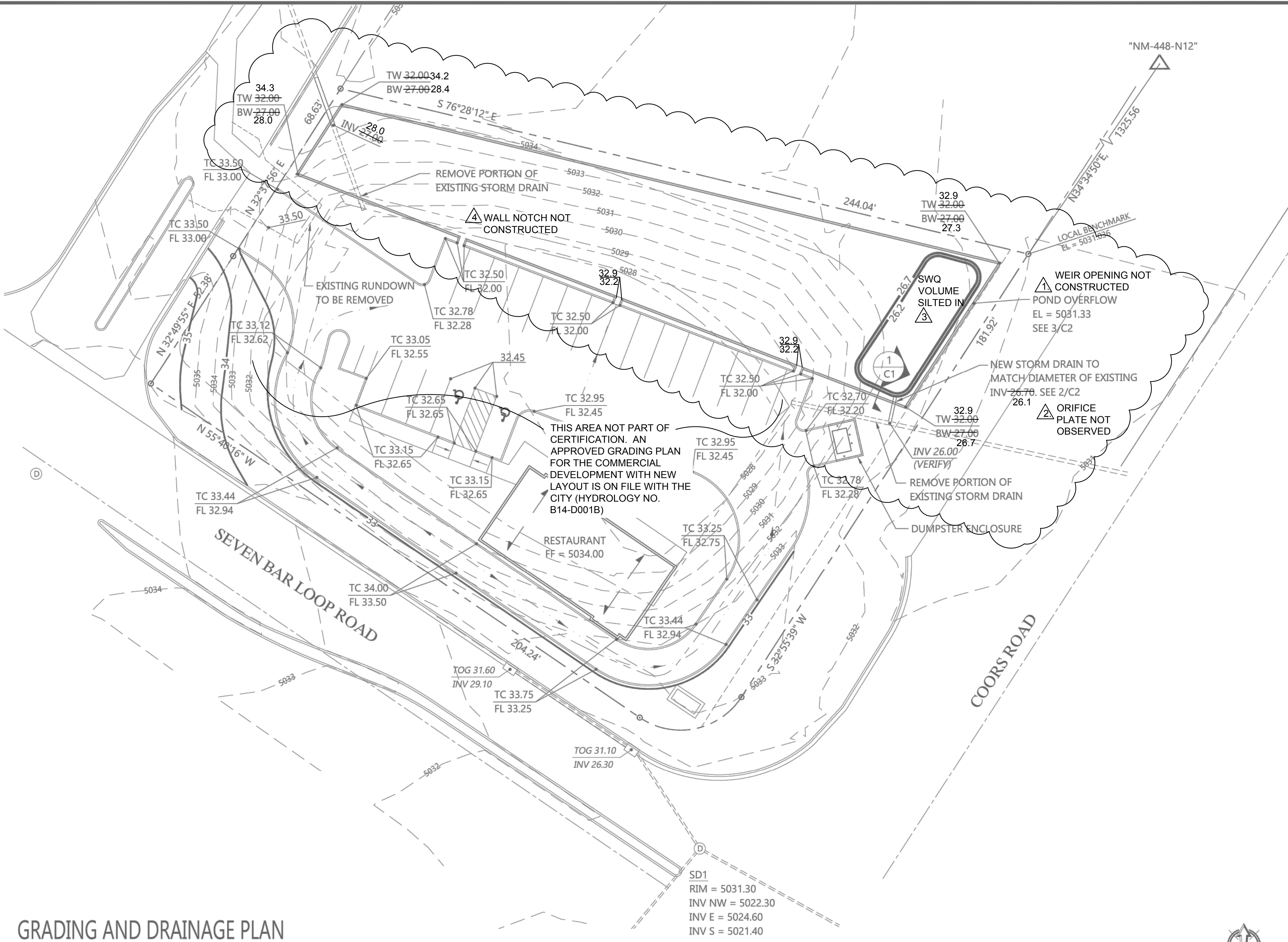
X= 1521354.471
Y = 1528973.229
NAD83
Z = 5026.132 (NAVD88)
G-G FACTOR: 0.999679709

LOCAL BENCHMARK IS THE NORTHEAST CORNER OF TRACT C.

ELEV 5031.036

GRADING AND DRAINAGE PLAN

SCALE: 1" = 20'



DRAINAGE CERTIFICATION FOR ALAMEDA WEST DETENTION POND:

I, Asa Nilsson-Weber, NMPE 17631 of the firm Isaacson & Arfman, Inc., hereby certify that the referenced pond has been constructed in substantial compliance with and in accordance with the design intent of the approved Grading & Drainage Plan prepared by Anchor Engineering LLC dated April 4, 2017, except as noted below.

- The 4-foot weir has not been constructed.
- The orifice plate at outlet pipe was not observed to be in place.
- The storm water quality portion of the pond has silted in.
- The westerly wall notch for a rundown has not been constructed.

The outstanding improvements shall be constructed and certified with the Building Permit plans for this tract (Hydrology No. B14-D001B). The remediation plan is attached for information only.

The record information edited onto the original design document has been obtained by Russ P. Hugg, NMPS 9750, of the firm SurvTek, Inc. I further certify that I visited the project site on September 9, 2022 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 Building Permit Approval.

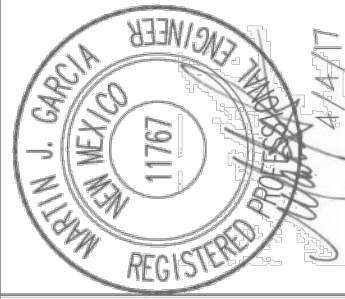
The record information presented hereon is not necessarily complete and intended only to verify substantial compliance of the grading and drainage aspects of this project. Those relying on this record document are advised to obtain independent verification of its accuracy before using it for any other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

Asa Nilsson-Weber

Asa Nilsson-Weber, NMPE 17631

09/15/2022

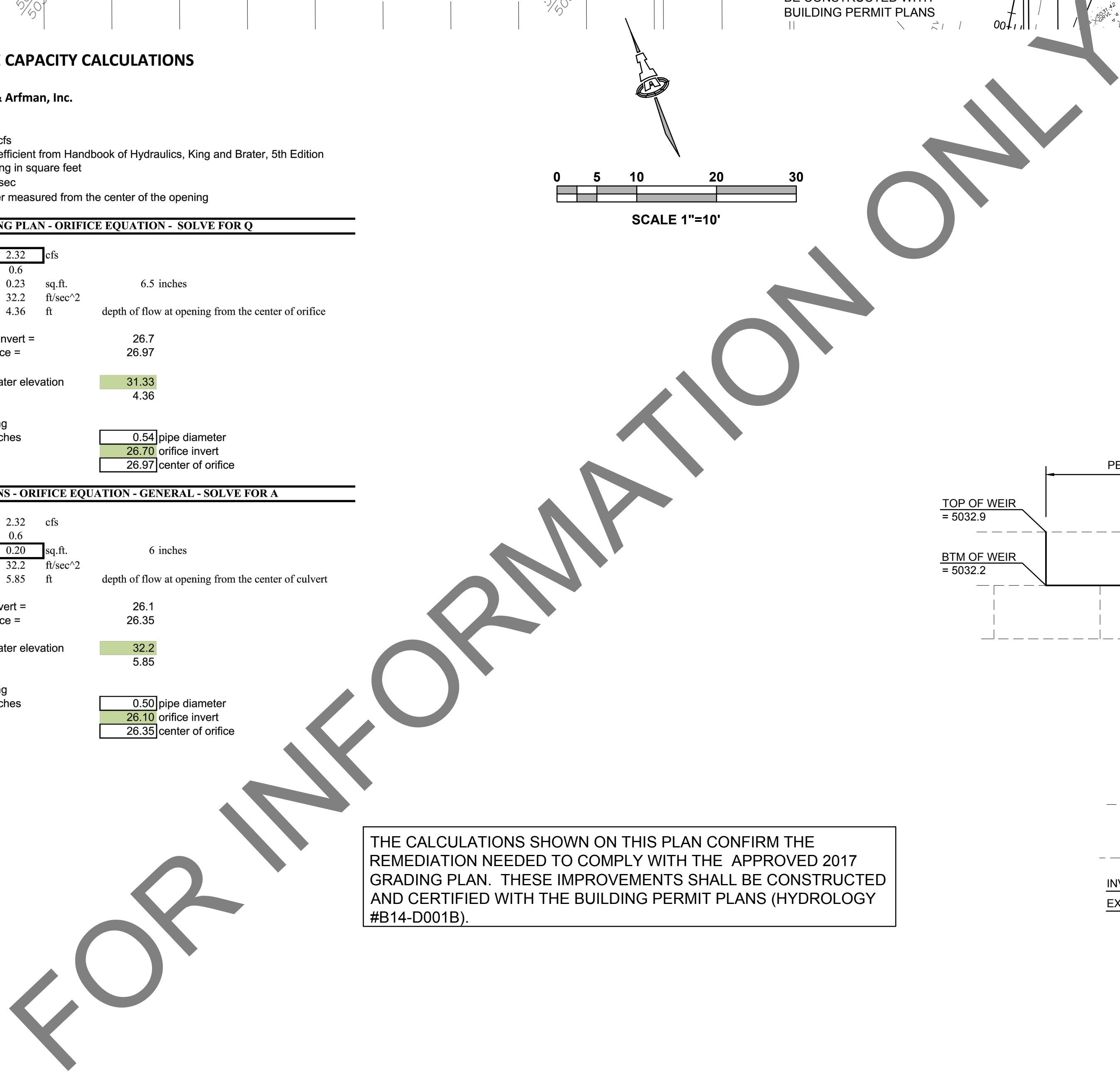
Date



PROJECT NO.	16-035
DATE:	4.4.2017
DRAWN BY:	F PHILLIPS
CHECKED BY:	M GARCIA
SCALE:	1" = 20'

PROJECT TITLE	RESTAURANT SITE
PROJECT TITLE	ALAMEDA WEST SHOPPING CENTER
PROJECT TITLE	ALBUQUERQUE, NEW MEXICO

SHEET	C1
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By: Åsa Nilsson-Weber, Isaacson & Arfman, Inc.

INV OUTLET PIPE=26.6
OVERFLOW=31.33

INV OUTLET PIPE=26.1
OVERFLOW=32.2

TOP AREA LISTED AT INSIDE OF WALL
CONTOUR AREAS PER AS-BUILT SURVEY
AS CALCULATED IN AUTOCAD

INV OUTLET PIPE=26.1; ORIFICE INV=26.4
OVERFLOW=32.2

By: Åsa Nilsson-Weber, Isaacson & Arfman, Inc.

REQUIRED SWQ VOLUME FROM 2017 GRADING PLAN= 469 CF

By: Åsa Nilsson-Weber, Isaacson & Arfman, Inc.

$Q = C^*A * (2*g*h)^{.5}$	
Q	= Discharge in cfs
C	= Discharge coefficient from Handbook of Hydraulics, King and Brater, 5th Edition
A	= Area of opening in square feet
g	= 32.2 ft/sec
h	= Depth of water measured from the center of the opening

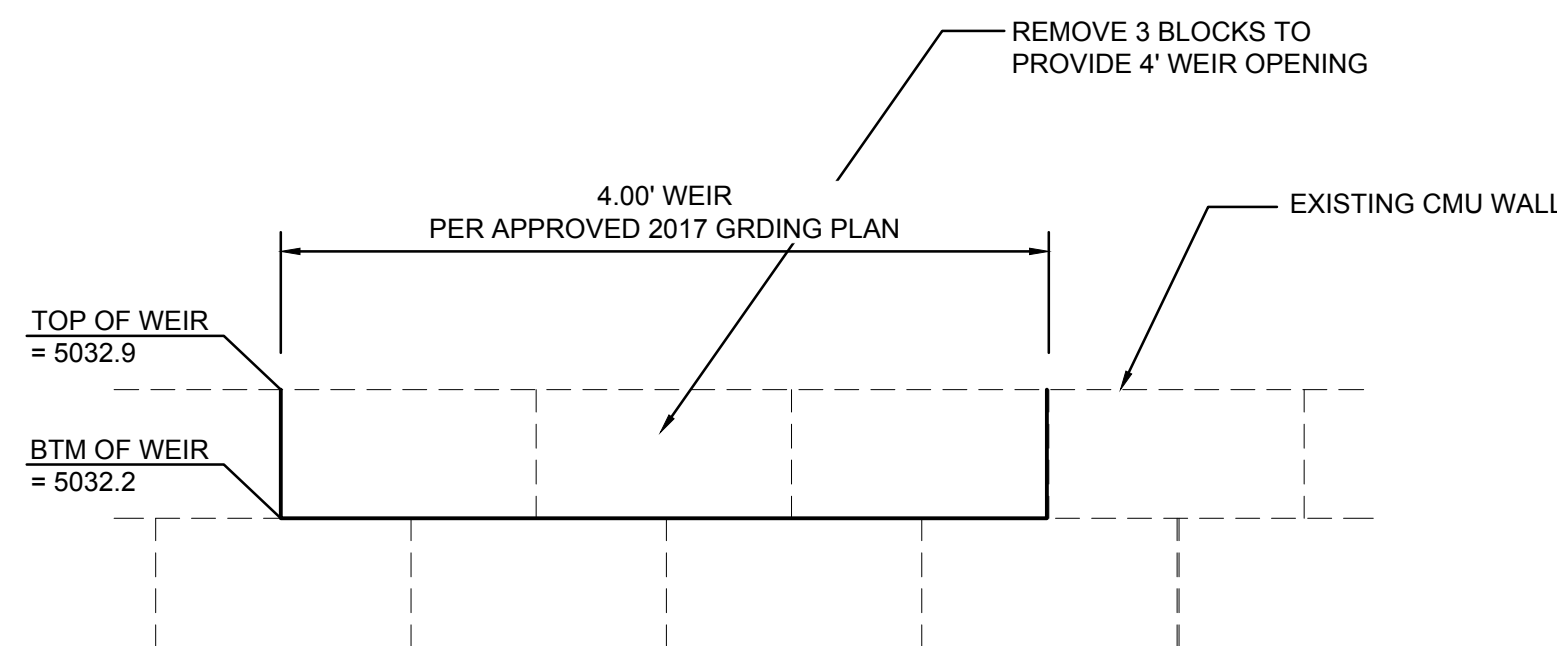
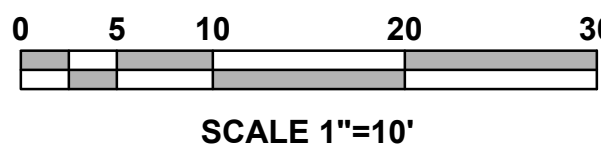
Outlet orifice invert = 26.7
Center of orifice = 26.97

T CONDITIONS - ORIFICE EQUATION - GENERAL - SOLVE FOR A

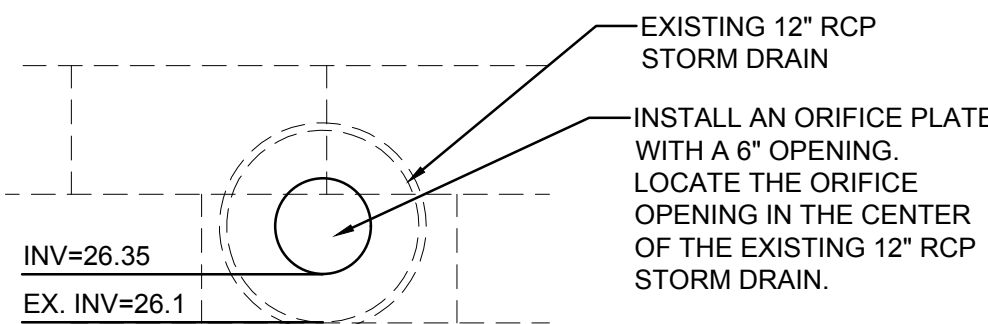
Q = C*A * (2*g*h) ^ 0.5				
Where	Q	=	2.32	cfs
	C	=	0.6	
	A	=	0.20	sq.ft. 6 inches
	g	=	32.2	ft/sec^2
	h	=	5.85	ft depth of flow at opening from the center of culvert

Outlet pipe invert =	26.1
Center of orifice =	26.35
Outlet max water elevation	32.2
Head	5.85
Orifice opening	
6 inches	0.50 pipe diameter
	26.10 orifice invert
	26.35 center of orifice

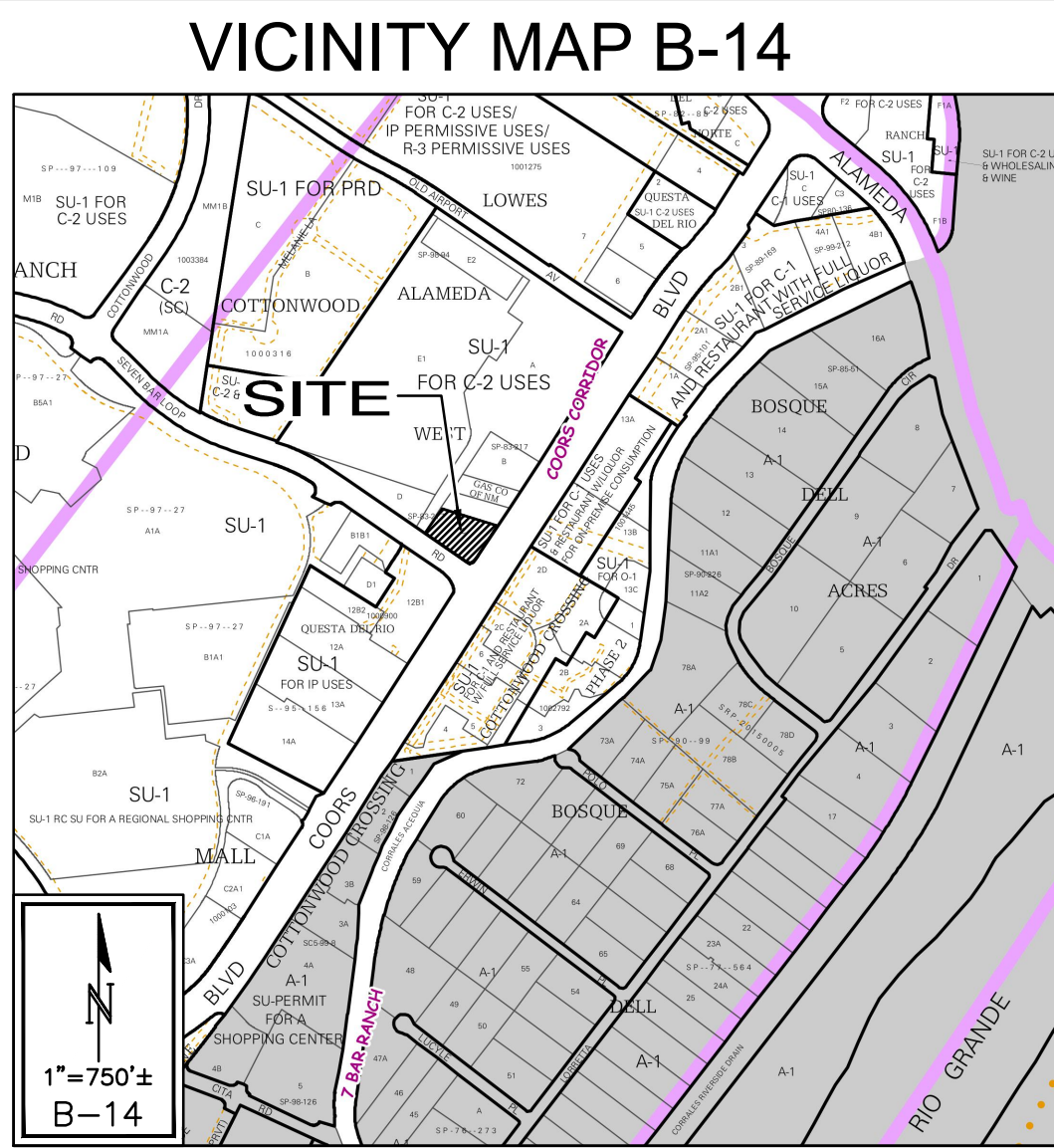
THE CALCULATIONS SHOWN ON THIS PLAN CONFIRM THE REMEDIATION NEEDED TO COMPLY WITH THE APPROVED 2017 GRADING PLAN. THESE IMPROVEMENTS SHALL BE CONSTRUCTED AND CERTIFIED WITH THE BUILDING PERMIT PLANS (HYDROLOGY #B14-D001B).



OVERFLOW WEIR
1"=1'



ORIFICE PLATE
1"=1'



STORMWATER QUALITY (SWQ) RETENTION: PER THE APPROVED GRADING PLAN PREPARED BY ANCHOR ENGINEERING, LLC DATED 4/4/17 SWQ RETENTION VOLUME REQUIRED IS 469 CF; SWQ VOLUME PROVIDED=828 CF.