CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director

Mayor Timothy M. Keller

January 19, 2023

David Alter, P.E.
Ensign
45 W. 10000 S., Suite 500
Sandy, UT 84070

RE: Chick-Fil-A @ Coors Pavilion – Additional Parking Lot
4001 Coors Blvd NW
Revised Grading & Drainage Plan
Engineer's Stamp Date: 08/25/22
Hydrology File: G11D069C

Dear Mr. Alter:

Based upon the information provided in your submittal received 01/19/2023, the Revised Grading & Drainage Plan is approved for Grading Permit, Paving Permit and for action by the DRB on Site Plan for Building Permit. Once the grading and paving of the project is complete, please provide an as-built for the City's records since there is no CO attached to the project.

As a reminder, if the project total area of disturbance (including the staging area and any work within the adjacent Right-of-Way) is 1 acre or more, then an Erosion and Sediment Control (ESC) Plan and Owner's certified Notice of Intent (NOI) is required to be submitted to the Stormwater Quality Engineer (Doug Hughes, PE, jhughes@cabq.gov, 924-3420) 14 days prior to any earth disturbance.

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

Sincerely,

Renée C. Brissette

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 (REV 10/2018)

REVISION

Project Title: Chick-fil-A #4107 Coors Boulevard Building Permit #: _____ Hydrology File #: G11D069C

DRB#: _____ EPC#: _____ Work Order#: _____

Legal Description: 101106023744520806/ 101106023746120805

City Address: 4001 Coors Boulevard NW, Albuquerque, New Mexico, 87102

Applicant: Chick-fil-A, Inc. Contact: _____

Address: 5200 Buffington Road

Phone#: _____ Fax#: _____ E-mail: _____

Other Contact: Interplan LLC c/o Chick-fil-A, Inc. Contact: Amanda Bishop

Address: 220 East Central Parkway, Suite 4000

Phone#: 407-645-5008 Fax#: _____ E-mail: abishop@interplanllc.com

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

IS THIS A RESUBMITTAL? x Yes _____ No

REVISION TO THE STAMPED APPROVED G&D PLAN STAMPED 08/19/22

DEPARTMENT: _____TRAFFIC/TRANSPORTATION x HYDROLOGY/DRAINAGE

Check all that Apply:

TYPE OF SUBMITTAL:

____ ENGINEER/ARCHITECT CERTIFICATION
____ PAD CERTIFICATION
x CONCEPTUAL G & D PLAN
x GRADING PLAN
____ DRAINAGE MASTER PLAN
____ DRAINAGE REPORT
____ FLOODPLAIN DEVELOPMENT PERMIT APPLIC
____ ELEVATION CERTIFICATE
____ CLOMR/LOMR
____ TRAFFIC CIRCULATION LAYOUT (TCL)
____ TRAFFIC IMPACT STUDY (TIS)
____ OTHER (SPECIFY) _____
____ PRE-DESIGN MEETING?

TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

____ BUILDING PERMIT APPROVAL
____ CERTIFICATE OF OCCUPANCY
____ PRELIMINARY PLAT APPROVAL
____ SITE PLAN FOR SUB'D APPROVAL
x SITE PLAN FOR BLDG. PERMIT APPROVAL
____ FINAL PLAT APPROVAL
____ SIA/ RELEASE OF FINANCIAL GUARANTEE
____ FOUNDATION PERMIT APPROVAL
x GRADING PERMIT APPROVAL
____ SO-19 APPROVAL
____ PAVING PERMIT APPROVAL
____ GRADING/ PAD CERTIFICATION
____ WORK ORDER APPROVAL
____ CLOMR/LOMR
____ FLOODPLAIN DEVELOPMENT PERMIT
x OTHER (SPECIFY) _____

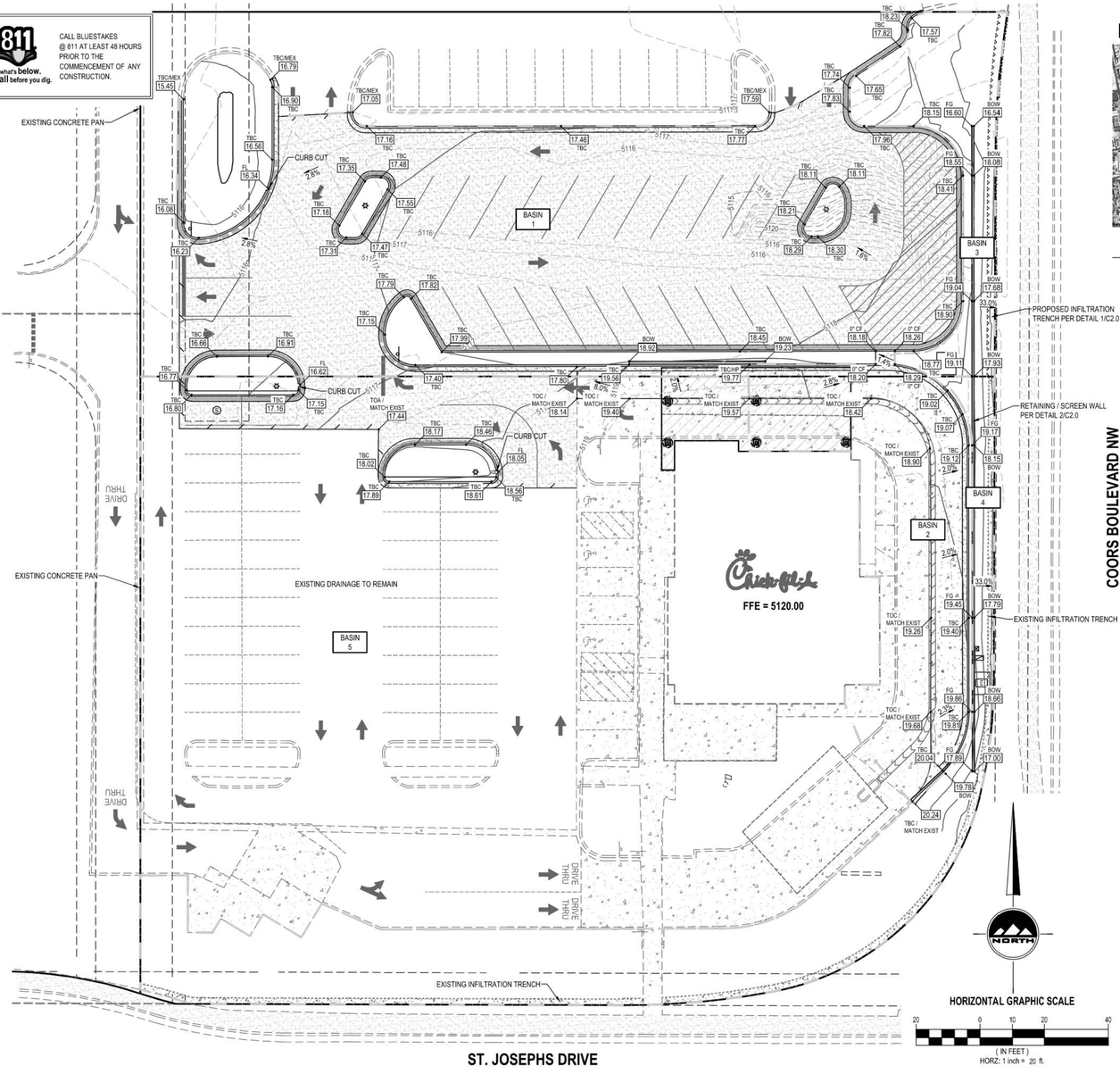
DATE SUBMITTED: 08/26/2022 By: Amanda Bishop; Interplan LLC c/o Chick-fil-A, Inc.

COA STAFF: ELECTRONIC SUBMITTAL RECEIVED:_____

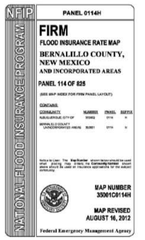
FEE PAID:_____

811 Know what's below. Call before you dig.

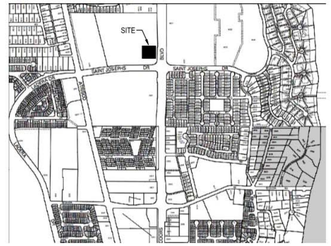
CALL BLUESTAKES @ 811 AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.



FIRM MAP NO 35001C0114H



VICINITY MAP



GENERAL NOTES

1. ALL WORK TO COMPLY WITH THE GOVERNING AGENCY'S STANDARDS AND SPECIFICATIONS.
2. ALL IMPROVEMENTS MUST COMPLY WITH ADA STANDARDS AND RECOMMENDATIONS.
3. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE EXISTING SOIL CONDITIONS.
4. ELEVATIONS HAVE BEEN TRUNCATED FOR CLARITY. XX.XX REPRESENTS AN ELEVATION OF 51XX.XX ON THESE PLANS.
5. LANDSCAPED AREAS REQUIRE SUBGRADE TO BE MAINTAINED AT A SPECIFIC ELEVATION BELOW FINISHED GRADE AND REQUIRE SUBGRADE TO BE PROPERLY PREPARED AND SCARIFIED. SEE LANDSCAPE PLANS FOR ADDITIONAL INFORMATION.
6. ALL STORM DRAIN INFRASTRUCTURE TO BE INSTALLED PER GOVERNING AGENCY OR APWA STANDARD PLANS AND SPECIFICATIONS.
7. THE CONTRACTOR SHALL ADJUST TO GRADE ALL EXISTING UTILITIES AS NEEDED PER LOCAL GOVERNING AGENCY'S STANDARDS AND SPECIFICATIONS.
8. NOTIFY ENGINEER OF ANY DISCREPANCIES IN DESIGN OR STAKING BEFORE PLACING CONCRETE, ASPHALT, OR STORM DRAIN STRUCTURES OR PIPES.
9. THE CONTRACTOR IS TO PROTECT AND PRESERVE ALL EXISTING IMPROVEMENTS, UTILITIES, AND SIGNS, ETC. UNLESS OTHERWISE NOTED ON THESE PLANS.

EROSION CONTROL NOTES

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
4. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATION ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL (CITY) ACCEPTANCE OF ANY PROJECT.

LOCATION AND DESCRIPTION

THE PROPOSED SITE IS LOT 5 OF COORS PAVILION AND IS 0.7 ACRES LOCATED ON THE NORTH SIDE OF ST. JOSEPH'S BLVD. AND THE WEST SIDE OF COORS BLVD. THE PROPOSED DEVELOPMENT WILL BE A PARKING LOT TO EXPAND THE EXISTING PARKING LOT.

FLOODPLAIN STATUS

THE PROJECT, AS SHOWN ON FEMA'S FLOOD INSURANCE RATE MAP 35001C011H, DATED AUGUST 16, 2012 IS NOT WITHIN A DESIGNATED 100-YEAR FLOODPLAIN. AN EXHIBIT WITH THE SITE SHOWN ON THE FIRM PANEL IS INCLUDED ON THIS SHEET.

METHODOLOGY

THE HYDROLOGY FOR THIS PROJECT WAS ANALYZED USING THE RATIONAL METHOD.

PRECIPITATION

THE 100-YR 6-HR DURATION STORM WAS USED AS THE DESIGN STORM FOR THIS ANALYSIS. THIS SITE IS WITHIN ZONE 1 AS IDENTIFIED IN THE CITY OF ALBUQUERQUE DEVELOPMENT MANUAL, SECTION 22.2

EXISTING DRAINAGE

THE SITE IS WITHIN THE AREA OF THE COORS PAVILION DRAINAGE MASTER PLAN DATED FEBRUARY 22, 2017. THE EXISTING DRAINAGE FLOWS TO THE NORTHWEST TO A PROPOSED POND FOR SHARED USE BY LOTS INCLUDED IN THE MASTER DRAINAGE PLAN.

DEVELOPED CONDITION

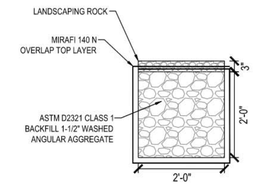
THE SITE WILL BE DEVELOPED WITH SITE FLOWS FROM LOT 5 AND PART OF LOT 6 DIRECTED INTO A CONCRETE PAN IN THE MIDDLE OF THE PRIVATE DRIVE ON THE WEST SIDE OF THE SITE VIA A COMBINATION OF CURB AND GUTTER AND OVERLAND FLOW. THE PAN WILL ULTIMATELY DIRECT THE FLOW INTO THE FIRST FLUSH POND PROVIDED BY THE DEVELOPMENT. THE 100 YEAR PEAK RUNOFF FROM THIS DEVELOPMENT IS IN ACCORDANCE WITH THE MASTER DRAINAGE REPORT. RUNOFF ADJACENT TO COORS BLVD AND ST. JOSEPH'S OR WILL BE CAPTURED BY AN EXISTING AND A PROPOSED INFILTRATION TRENCH AT THE REAR OF THE EXISTING SIDEWALK, ALLOWING NO RUNOFF FROM THIS SITE TO ENTER EITHER ROADWAY RIGHT-OF-WAY.

SITE HYDROLOGY

HYDROLOGY RESULTS AND SAMPLE CALCULATIONS ARE SHOWN BELOW

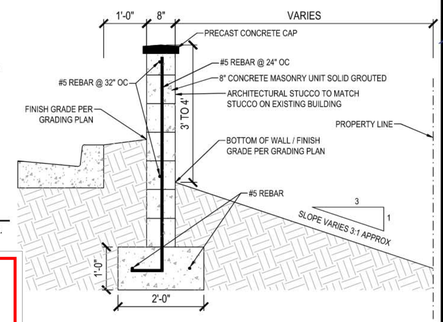
LEGEND

- EXISTING BOLLARD
- PROPOSED BOLLARD
- EXISTING SIGN
- PROPOSED SIGN
- EXISTING FLAG POLE
- EXISTING EDGE OF ASPHALT
- PROPOSED EDGE OF ASPHALT
- EXISTING STRIPING
- PROPOSED STRIPING
- EXISTING WALL
- PROPOSED WALL
- EXISTING CONTOURS
- PROPOSED CONTOURS
- PROPOSED ASPHALT
- EXISTING CURB AND GUTTER
- PROPOSED CURB AND GUTTER
- PROPOSED REVERSE PAN CURB AND GUTTER
- TRANSITION TO REVERSE PAN CURB
- EXISTING CONCRETE
- PROPOSED CONCRETE
- EXISTING BUILDING
- EXISTING MONUMENT SIGN
- CATCHMENTS / BASINS



1 INFILTRATION TRENCH

N.T.S.



2 RETAINING / LANDSCAPE SCREEN WALL

SCALE: NONE

City of Albuquerque
Planning Department
Development Review Services
HYDROLOGY SECTION
APPROVED
DATE: 01/19/23
BY: Renee C. Brissette
HydroTrans #: G11D069C

THE APPROVAL OF THESE PLANS/REPORT SHALL NOT BE CONSTRUED TO PERMIT VIOLATIONS OF ANY CITY ORDINANCE OR STATE LAW AND SHALL NOT PREVENT THE CITY OF ALBUQUERQUE FROM REQUIRING CORRECTION, OR ERROR OR OMISSIONS IN PLANS. SHOULD ACTUAL CONDITIONS VARY, THE APPROVED PLANS SHALL NOT BE CHANGED, MODIFIED OR ALTERED WITHOUT AUTHORIZATION.

100 YR

LAND TREATMENT	A	B	C	D					
COEFFICIENT C	0.34	0.47	0.63	0.90	100 YR, 6 HR				
PEAK DISCHARGE (CFS/AC)	1.54	2.16	2.87	4.12	INTENSITY (IN/HR)=	0.36			
6-HR EXCESS PRECIPITATION, E (IN)	0.55	0.73	0.95	2.24		Q (CFS), RATIONAL	Q (CFS), PEAK	WEIGHTED	VOL 360,
BASIN	LAND TREATMENT AREA (AC)				TOTAL AREA (AC)	METHOD	DISCHARGE	E (IN)	(AC-FT)
1	0.00	0.07	0.00	0.58	0.65	0.20	2.53	2.08	0.1119
2	0.00	0.06	0.00	0.00	0.06	0.01	0.12	0.73	0.0034
3	0.00	0.00	0.00	0.11	0.11	0.04	0.47	2.22	0.0211
4	0.00	0.18	0.00	0.00	0.18	0.03	0.39	0.73	0.0110
5	0.00	0.07	0.00	0.80	0.87	0.27	3.44	2.12	0.1535

	VOL 360, (CU.FT.)
	4875
	147
	919
	477
	6686

10 YR

LAND TREATMENT	A	B	C	D					
COEFFICIENT C	0.11	0.28	0.51	0.90	10 YR, 6 HR				
PEAK DISCHARGE (CFS/AC)	0.30	0.81	1.46	2.57	INTENSITY (IN/HR)=	0.23			
6-HR EXCESS PRECIPITATION, E (IN)	0.11	0.26	0.43	1.43		Q (CFS), RATIONAL	Q (CFS), PEAK	WEIGHTED	VOL 360,
BASIN	LAND TREATMENT AREA (AC)				TOTAL AREA (AC)	METHOD	DISCHARGE	E (IN)	(AC-FT)
1	0.00	0.07	0.00	0.58	0.65	0.12	1.54	1.30	0.0702
2	0.00	0.06	0.00	0.00	0.06	0.00	0.04	0.26	0.0012
3	0.00	0.00	0.00	0.11	0.11	0.02	0.29	1.42	0.0134
4	0.00	0.18	0.00	0.00	0.18	0.01	0.15	0.26	0.0039
5	0.00	0.07	0.00	0.80	0.87	0.17	2.11	1.34	0.0968

	VOL 360, (CU.FT.)
	3060
	52
	586
	170
	4216

2 YR

LAND TREATMENT	A	B	C	D					
COEFFICIENT C	0.00	0.01	0.28	0.89	2 YR, 6 HR				
PEAK DISCHARGE (CFS/AC)	0.00	0.02	0.50	1.56	INTENSITY (IN/HR)=	0.15			
6-HR EXCESS PRECIPITATION, E (IN)	0.00	0.01	0.13	0.92		Q (CFS), RATIONAL	Q (CFS), PEAK	WEIGHTED	VOL 360,
BASIN	LAND TREATMENT AREA (AC)				TOTAL AREA (AC)	METHOD	DISCHARGE	E (IN)	(AC-FT)
1	0.00	0.07	0.00	0.58	0.65	0.08	0.90	0.82	0.0443
2	0.00	0.06	0.00	0.00	0.06	0.00	0.00	0.01	0.0000
3	0.00	0.00	0.00	0.11	0.11	0.02	0.18	0.91	0.0086
4	0.00	0.18	0.00	0.00	0.18	0.00	0.00	0.01	0.0002
5	0.00	0.07	0.00	0.80	0.87	0.11	1.25	0.85	0.0614

	VOL 360, (CU.FT.)
	1929
	2
	376
	7
	2673

SWQV - BASIN 4 (UPDATED)

IMPERVIOUS AREA	34827
REQUIRED VOLUME	987
PROVIDED VOLUME (CU.FT.) IN DEVELOPMENT POND	1289

$$ReqVolume = Impervious\ area * (0.44 - 0.10)/12$$

As calculated in original development

ReqVolume = (34827 * (0.44-0.10)/12) = 987

REQUIRED SWQV - BASIN 1 AND 3

IMPERVIOUS AREA (SQ.FT.)	21402
REQUIRED VOLUME (CU.FT.)	749.07
PROVIDED VOLUME (CU.FT.) IN DEVELOPMENT POND	778

$$ReqVolume = Impervious\ area * (0.42)/12$$

Section 6-12

ReqVolume = (21402 * (0.42)/12 = 749

CURB OPENING / WEIR

C	2.7
PROPOSED LENGTH (FT)	1
DEPTH (FT)	0.5
DISCHARGE, Q (CFS)	0.95

$$Q = CLH^{3/2}$$ Section 6-16(A). Equation 6.64

Q = 2.7 * 1 * .5^(3/2)

THE 1' LONG CURB CUT PROVIDES A LARGER DISCHARGE CAPACITY THAT WHAT IT IS NEEDED, THUS A 1' CURB CUT IS PROPOSED.

BASIN 2 - INFILTRATION TRENCH

REQUIRED VOLUME (CU.FT.)	147
LENGTH (FT)	114
AREA (SQ.FT.)	4
VOID RATIO	0.4
VOLUME PROVIDED (CU.FT.)	182.4

$$Weighted\ E = \frac{EaAa+EbAb+EcAc+EdAd}{Aa+Ab+Ac+Ad}$$ Section 6-2(A)(4). Equation 6.1

Weighted E = ((0.55*0.0)+(0.73*0.07)+(0.95*0.0)+(2.24*0.58))/0.65=2.08

$$V360 = Weighted\ E * (Aa + Ab + Ac + Ad)$$ Section 6-2(A)(4). Equation 6.2

V360 = (2.08 * .65) /12 = 0.11

$$Q = CiA$$ Section 6-2(A)(5). Equation 6.7

Q = ((0.34*0.36*0.0)+(0.47*0.36*0.07)+(0.63*0.36*0.0)+(0.90*0.36*0.58))=0.20

$$Q = Qp\ A$$ Section 6-2(A)(5). Equation 6.6

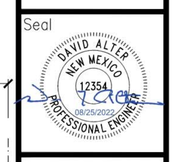
Q = ((1.54*0.0)+(2.16*0.07)+(2.87*0.0)+(4.12*0.58))=2.53

Chick-fil-A
5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

Mark	Date	By

Seal



ENSIGN
SALT LAKE CITY
45 W. 10000 S., Suite 500
Sandy, UT 84070
Phone: 801.255.0529
Fax: 801.255.4449
WWW.ENSIGNENG.COM

STORE
CHICK-FIL-A
FSU #04107
COORS BLVD.

COORS BLVD NW & ST. JOSEPHS DR NW
ALBUQUERQUE, NM
87120

SHEET TITLE
GRADING AND DRAINAGE PLAN

VERSION:
ISSUE DATE:

Job No. : 11274
Store : 04107
Date : 8/24/22
Drawn By : MM
Checked By: DJ

Sheet
C-2.0