CITY OF ALBUQUERQUE

Planning Department Brennon Williams, Director



January 28, 2020

Fred C. Arfman, P.E. Isaacson & Arfman, P.A. 128 Monroe St. N.E. Albuquerque, NM 87108

RE: Starbucks

> 1314 Gibson Blvd. SE **Grading and Drainage Plan** Engineer's Stamp Date: 01/16/20 Hydrology File: L15D041

Dear Mr. Arfman:

PO Box 1293

Based upon the information provided in your submittal received 01/17/2020, the Grading and

Drainage Plan is approved for Building Permit.

Albuquerque Please attach a copy of this approved plan in the construction sets for Building Permit processing

along with a copy of this letter. Prior to approval in support of Permanent Release of Occupancy

by Hydrology, Engineer Certification per the DPM checklist will be required.

NM 87103 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.

www.cabq.gov

Also as a reminder, please provide a Drainage Covenant for the proposed stormwater quality ponds per Chapter 17 of the DPM prior to Permanent Release of Occupancy. Please submit this on the 4th floor of Plaza de Sol. A \$25 fee will be required.

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

Renée C. Brissette

Planning Department



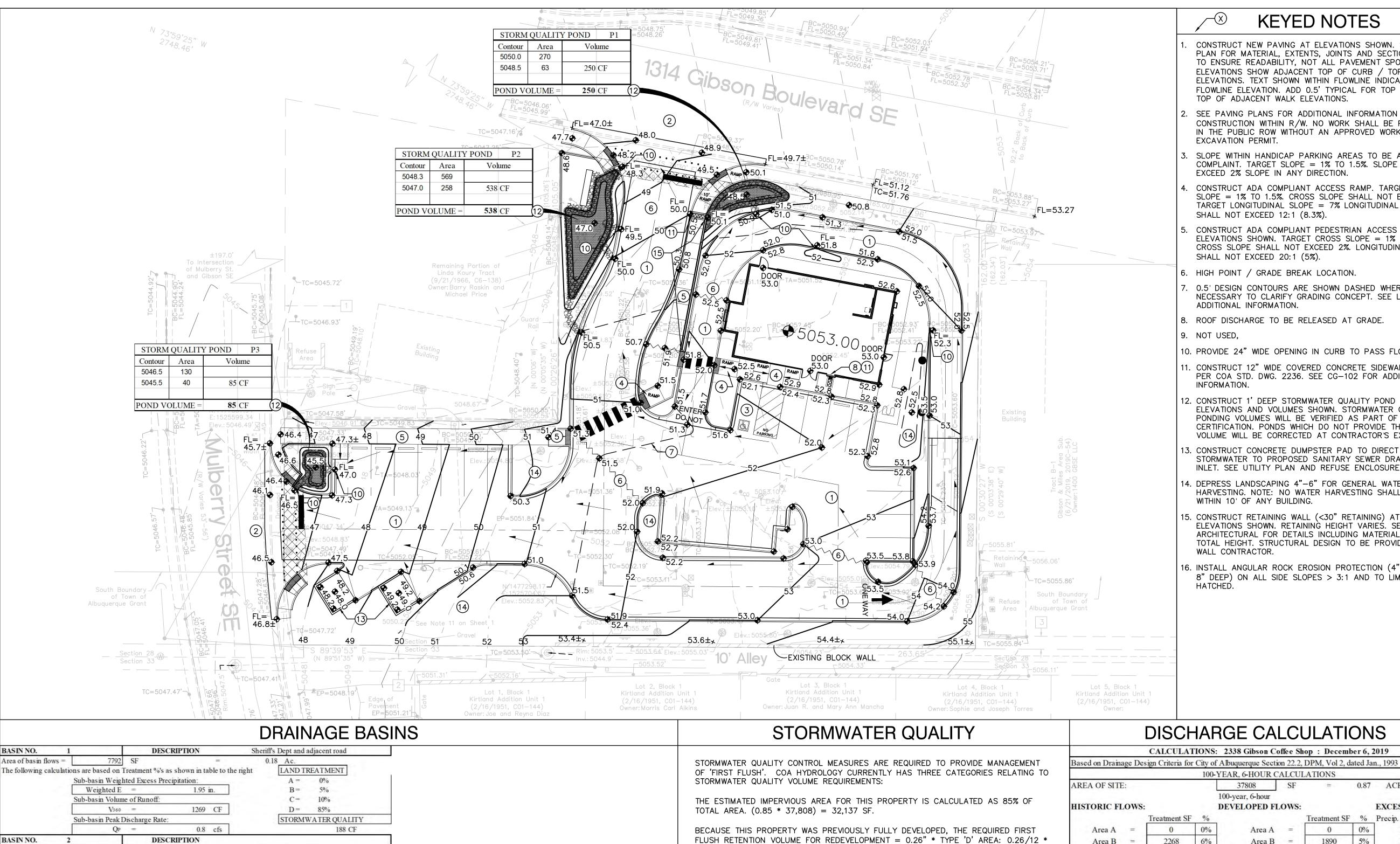
City of Albuquerque

Planning Department Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 11/2018)

Project Title: Starbuck Drive-Thru	Building Permit #:	Hydrology File #: L15
DRB#:	EPC#:	Work Order#:
Legal Description: Lot A, Hugh B Woodwa City Address: 1314 Gibson Blvd. SE - A	ard Subdivision Gibson	n & Miles Area
Applicant: Isaacson & Arfman, Inc. Address: 128 Monroe Street NE - Albuq Phone#: (505) 268-8828 Owner: 125 & Gibson, LLC Address: 6801 Jefferson Street NE, Suit Phone#: (505) 798-9800 TYPE OF SUBMITTAL: PLAT (# OF I	te 300 - Albuquerque, N Fax#: Tex 300 - Albuquerque, N Fax#: LOTS) RESIDENCE _ ES X No	E-mail: freda@iacivil.com bryanb@iacivil.com Contact: Wes Butero M 87109 E-mail:
Check all that Apply: TYPE OF SUBMITTAL: ENGINEER/ARCHITECT CERTIFICATION PAD CERTIFICATION CONCEPTUAL G & D PLAN X GRADING PLAN DRAINAGE MASTER PLAN DRAINAGE REPORT FLOODPLAIN DEVELOPMENT PERMIT A ELEVATION CERTIFICATE CLOMR/LOMR X TRAFFIC CIRCULATION LAYOUT (TCL) TRAFFIC IMPACT STUDY (TIS) OTHER (SPECIFY) PRE-DESIGN MEETING?	XBU	F APPROVAL/ACCEPTANCE SOUGHT: ILDING PERMIT APPROVAL RTIFICATE OF OCCUPANCY ELIMINARY PLAT APPROVAL E PLAN FOR SUB'D APPROVAL E PLAN FOR BLDG. PERMIT APPROVAL IAL PLAT APPROVAL INDICATE INDICA
DATE SUBMITTED: January 17, 2020	By: Fred C. Arfma	n
COA STAFF:	ELECTRONIC SUBMITTAL RI	ECEIVED:

FEE PAID:____



BASIN 2 13995 SF

[∠]16021 SF

13995 SF

Sub-basin Volume of Runoff:

Sub-basin Peak Discharge Rate:

Op =

16021 SF

Sub-basin Peak Discharge Rate:

Qp =

Weighted E = Sub-basin Volume of Runoff:

The following calculations are based on Treatment %'s as shown in table to the right

Sub-basin Weighted Excess Precipitation:

Weighted E =

The following calculations are based on Treatment %'s as shown in table to the right

Sub-basin Weighted Excess Precipitation:

1.95 in.

2279 CF

1.4 cfs

1.95 in.

2609 CF

1.6 cfs

DESCRIPTION

LAND TREATMENT

B= 5%

C= 10%

D = 85%

LAND TREATMENT

C = 10%

D = 85%

0%

STORMWATER QUALITY

0%

5%

STORMWATER QUALITY

337 CF

386 CF

Area of basin flows =

BASIN NO.

KEYED NOTES

- CONSTRUCT NEW PAVING AT ELEVATIONS SHOWN. SEE PAVING PLAN FOR MATERIAL, EXTENTS, JOINTS AND SECTIONS. NOTE: TO ENSURE READABILITY, NOT ALL PAVEMENT SPOT ELEVATIONS SHOW ADJACENT TOP OF CURB / TOP OF WALK ELEVATIONS. TEXT SHOWN WITHIN FLOWLINE INDICATES FLOWLINE ELEVATION. ADD 0.5' TYPICAL FOR TOP OF CURB / TOP OF ADJACENT WALK ELEVATIONS.
- SEE PAVING PLANS FOR ADDITIONAL INFORMATION REGARDING CONSTRUCTION WITHIN R/W. NO WORK SHALL BE PERFORMED IN THE PUBLIC ROW WITHOUT AN APPROVED WORK ORDER OR EXCAVATION PERMIT.
- SLOPE WITHIN HANDICAP PARKING AREAS TO BE ADA COMPLAINT. TARGET SLOPE = 1% TO 1.5%. SLOPE SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION.
- CONSTRUCT ADA COMPLIANT ACCESS RAMP. TARGET CROSS SLOPE = 1% TO 1.5%. CROSS SLOPE SHALL NOT EXCEED 2%. TARGET LONGITUDINAL SLOPE = 7% LONGITUDINAL SLOPE SHALL NOT EXCEED 12:1 (8.3%).
- CONSTRUCT ADA COMPLIANT PEDESTRIAN ACCESS WALK AT ELEVATIONS SHOWN. TARGET CROSS SLOPE = 1% TO 1.5%. CROSS SLOPE SHALL NOT EXCEED 2%. LONGITUDINAL SLOPE SHALL NOT EXCEED 20:1 (5%).
- HIGH POINT / GRADE BREAK LOCATION.
- 0.5' DESIGN CONTOURS ARE SHOWN DASHED WHERE NECESSARY TO CLARIFY GRADING CONCEPT. SEE LEGEND FOR ADDITIONAL INFORMATION.
- 8. ROOF DISCHARGE TO BE RELEASED AT GRADE.
- 9. NOT USED,
- 10. PROVIDE 24" WIDE OPENING IN CURB TO PASS FLOW.
- . CONSTRUCT 12" WIDE COVERED CONCRETE SIDEWALK CULVERT PER COA STD. DWG. 2236. SEE CG-102 FOR ADDITIONAL INFORMATION.
- 12. CONSTRUCT 1' DEEP STORMWATER QUALITY POND TO ELEVATIONS AND VOLUMES SHOWN. STORMWATER QUALITY PONDING VOLUMES WILL BE VERIFIED AS PART OF AS-BUILT CERTIFICATION. PONDS WHICH DO NOT PROVIDE THE REQUIRED VOLUME WILL BE CORRECTED AT CONTRACTOR'S EXPENSE.
- 13. CONSTRUCT CONCRETE DUMPSTER PAD TO DIRECT LOCALIZED STORMWATER TO PROPOSED SANITARY SEWER DRAINAGE INLET. SEE UTILITY PLAN AND REFUSE ENCLOSURE DETAIL.
- 14. DEPRESS LANDSCAPING 4"-6" FOR GENERAL WATER HARVESTING. NOTE: NO WATER HARVESTING SHALL OCCUR WITHIN 10' OF ANY BUILDING.
- 15. CONSTRUCT RETAINING WALL (<30" RETAINING) AT ELEVATIONS SHOWN. RETAINING HEIGHT VARIES. SEE ARCHITECTURAL FOR DETAILS INCLUDING MATERIAL, COLOR. TOTAL HEIGHT. STRUCTURAL DESIGN TO BE PROVIDED BY WALL CONTRACTOR.
- 16. INSTALL ANGULAR ROCK EROSION PROTECTION (4" AVG. DIA., 8" DEEP) ON ALL SIDE SLOPES > 3:1 AND TO LIMITS HATCHED.

VICINITY MAP



PROJECT DATA

PROPERTY: THE SITE IS FULLY DEVELOPED PROPERTY LOCATED WITHIN C.O.A. VICINITY MAP L-15. THE SITE IS BOUND TO THE EAST BY DEVELOPED COMMERCIAL, TO THE WEST BY MULBERRY STREET AND DEVELOPED COMMERCIAL, TO THE SOUTH BY DEVELOPED RESIDENTIAL AND TO THE NORTH BY GIBSON BLVD.

PROPOSED IMPROVEMENTS: THE PROPOSED IMPROVEMENTS INCLUDE A RESTAURANT DRIVE-THRU WITH ASSOCIATED ASPHALT PAVED ACCESS, PARKING, AND LANDSCAPING.

LEGAL: LOT A-GIBSON & MILES AREA, WOODWARD--HUGH B SUBDIVISION.

ADDRESS: 1314 GIBSON BLVD. SE

BENCHMARK: ACS MONUMENT "G-10" - HAVING AN ELEVATION OF 4980.822'. NAVD 1988.

OFF-SITE FLOW: NO OFF-SITE DRAINAGE AFFECTS THIS

FLOOD HAZARD: PER BERNALILLO COUNTY FIRM MAP #35001C0342G DATED 09/26/2008, THE SITE IS LOCATED WITHIN FLOODZONE 'X' DESIGNATED AS AREAS DETERMINED TO BE OUTSIDE 500-YEAR FLOODPLAIN.

DRAINAGE PLAN CONCEPT:

THE SITE WAS PREVIOUSLY FULLY DEVELOPED WITH FREE DISCHARGE TO THE SURROUNDING STREETS. THE PROPOSED IMPROVEMENTS WILL CONTINUE TO FREE DISCHARGE WITH THE EXCEPTION OF STORMWATER QUALITY PONDING AND DEPRESSED LANDSCAPING.

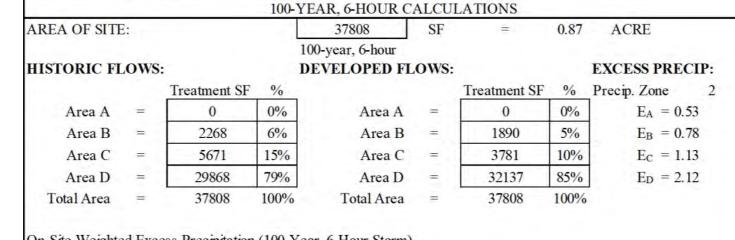
LEGEND

THREE STORMWATER QUALITY RETENTION PONDS WILL BE CONSTRUCTED.

(32,137 SF) = 696 CF.

THE THREE STORMWATER QUALITY PONDS ARE SIZED TO RETAIN 872 CF > 696 CF.

CALCULATIONS: 2338 Gibson Coffee Shop: December 6, 2019



 $A_A + A_B + A_C + A_D$

On-Site Volume of Runoff: V360 = 5958 CF Developed V₃₆₀ 6156 CF

On-Site Peak Discharge Rate: $Qp = Q_{pA}A_A + Q_{pB}A_B + Q_{pC}A_C + Q_{pD}A_D / 43,560$ For Precipitation Zone 2

 $Q_{pB} = 2.28$ $Q_{pD} = 4.70$ 3.8 CFS Developed Qp 3.8 CFS

Isaacson & Arfman, Inc. Civil Engineering Consultants

LIMITS OF PONDING

EXISTING CONTOUR

FLOW DIRECTION

EXISTING SPOT ELEVATION

PROPOSED 1.0' CONTOUR

PROPOSED 0.5' CONTOUR

FINISH FLOOR ELEVATION

ROCK EROSION CONTROL

PROPOSED SPOT ELEVATION

128 Monroe Street NE Albuquerque, NM 87108 505-268-8828 | www.iacivil.com

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STARBUCK DRIVE-THRU 1314 GIBSON BLVD. S.E. 87106

125 & GIBSON, LLC

GRADING & DRAINAGE PLAN

	Date:	No.	Revision:	Date:	Job No. 2338
- 1,	JAN. 2020				2338
Ι'	Drawn By: BJB				1
	Ckd By: FCA				SH. OF 7
	FCA				SH. OF 7

