CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Director

Mayor Timothy M. Keller

December 20, 2019

Richard Dourte, P.E.
RHD Engineering, LLC
4305 Purple Sage Ave NW
Albuquerque, NM 87120

RE: Burger King
5101 Gibson Blvd SE
Permanent C.O. - Accepted
Engineer's Certification Date: 12/20/19
Engineer's Stamp Date: 09/26/18
Hydrology File: L18D084

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

Dear Mr. Dourte:

Based on the Certification received 12/19/19 and site visit on 12/20/19, this certification is approved in support of Permanent Release of Occupancy by Hydrology.

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

City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: Burger King Restruant   Building Permit #: _____   Hydrology File #: L18D084

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

Legal Description: Lot 2, Block 26, Virginia Place Addition

City Address: 5101 Gibson Blvd. SE

Applicant: RHD Engineering, LLC   Contact: Richard Dourte

Address: 4305 Purple Sage Ave. NW, Alb. NM, 87120

Phone#: 505.288.1621   Fax#: _____   E-mail: rhdengineering@outlook.com

Other Contact: Simons Architecture PC   Contact: Joe Simons

Address: _____

Phone#: _____   Fax#: _____   E-mail: joe@simonsarchitecture.com

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

IS THIS A RESUBMITTAL? _____ Yes X No

DEPARTMENT _____ TRANSPORTATION X HYDROLOGY/DRAINAGE

Check all that Apply:

TYPE OF SUBMITTAL:
- X ENGINEER/ARCHITECT CERTIFICATION
- _____ PAD CERTIFICATION
- _____ CONCEPTUAL G & D PLAN
- _____ GRADING PLAN
- _____ DRAINAGE REPORT
- _____ DRAINAGE MASTER PLAN
- _____ FLOODPLAIN DEVELOPMENT PERMIT APPLIC
- _____ ELEVATION CERTIFICATE
- _____ CLOMR/LOMR
- _____ TRAFFIC CIRCULATION LAYOUT (TCL)
- _____ TRAFFIC IMPACT STUDY (TIS)
- _____ STREET LIGHT LAYOUT
- _____ OTHER (SPECIFY) _____
- no PRE-DESIGN MEETING?

TYPE OF APPROVAL/ACCEPTANCE SOUGHT:
- _____ BUILDING PERMIT APPROVAL
- X CERTIFICATE OF OCCUPANCY

- _____ 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
- _____ FLOODPLAIN DEVELOPMENT PERMIT
- _____ OTHER (SPECIFY) _____

DATE SUBMITTED: 12/20/19   By: *Richard Dourte*

- -

COA STAFF: _____   ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____

DRAINAGE NARRATIVE:

1. THIS SITE IS LOCATED WITHIN AN X FLOOD PLAIN. REFER TO THE FEMA EXCERPT THIS SHEET.

2. THIS SITE IS IN A FREE DISCHARGE AREA.

3. LANDSCAPED AREA = 19%
   IMPERVIOUS AREA = 81%

4. THE VOLUME OF WATER GENERATED BY THIS SITE FOR THE 100YR 6HR RAIN FALL EVENT IS 6400CF.

5. THE FIRST FLUSH PONDING REQUIREMENT IS 798CF. THE PONDING PROVIDED IS 1259CF, THUS THE PONDING PROVIDED IS GREATER THAN THE REQUIRED PONDING.
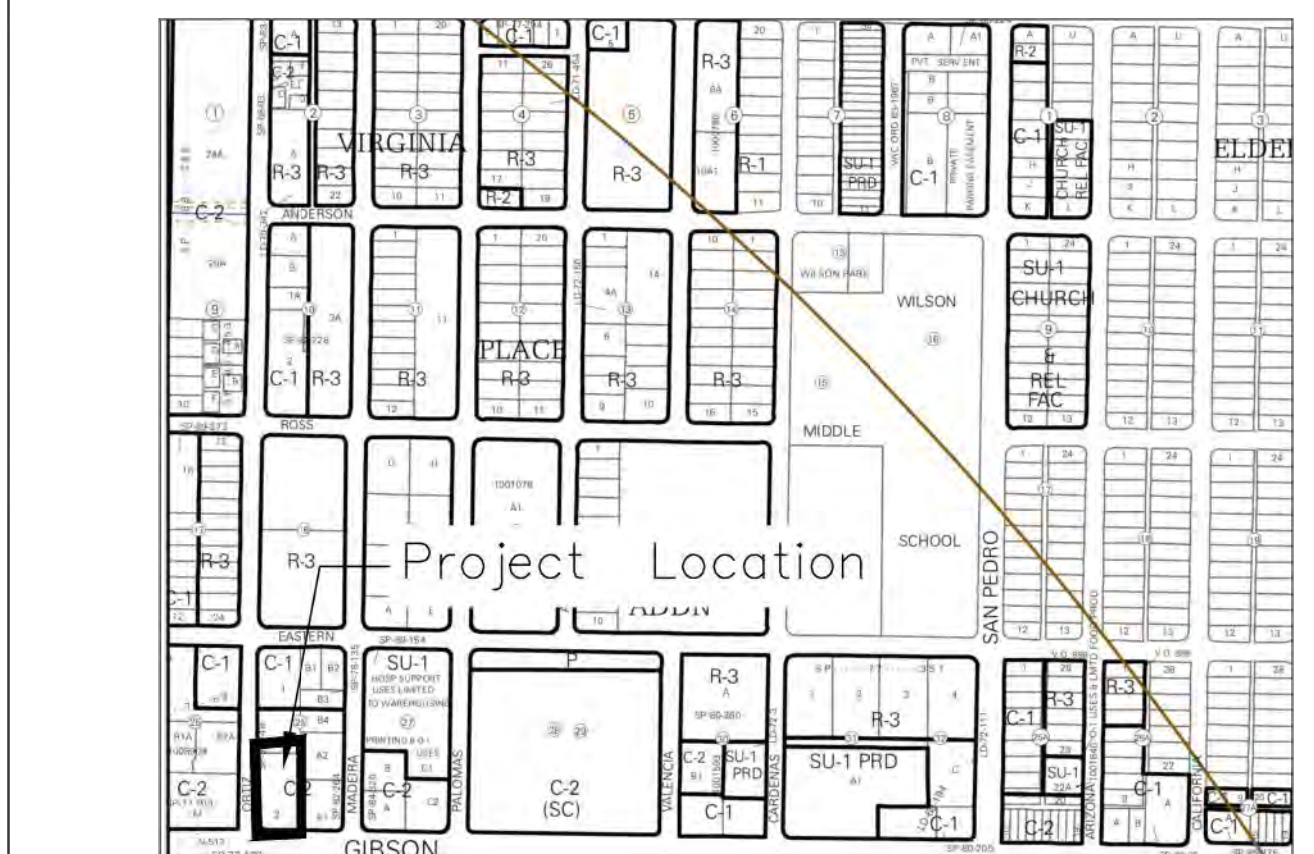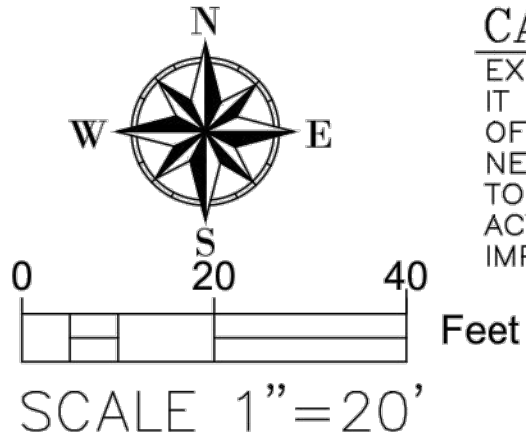
GENERAL NOTES:

1. THIS SITE IS LOCATED IN A ZONE X, FEMA FLOOD HAZARD ZONE (REFER TO THE FIRM MAP 35001C0362H,(EXCERPT ATTACHED) EFFECTIVE DATE 8/16/2012.

2. RHD ENGINEERING, LLC RECOMMENDS THAT THE OWNER OBTAIN A GEOTECHNICAL REPORT PRIOR TO DESIGN OF BUILDING FOOTING/FOUNDATION.

3. ALL SWPPP REQUIREMENTS SHALL BE ADHERED TO.

4. ALL WORK ON THIS PLAN SHALL BE DONE IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARDS. ALL APPLICABLE PERMITS SHALL BE OBTAINED PRIOR TO WORK COMMENCING.

5. ALL WORK IN THE RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARDS.

6. THE SURVEY INFORMATION WAS PROVIDED BY CONSTRUCTION SURVEY TECHNOLOGIES, INC.

7. FOR SITE DIMENSIONS, BUILDING AND INFRASTRUCTURE LOCATION REFER TO THE SITE PLAN.

8. BUILD 2'X2' INLET WITH GRATE (EL=10.15) AND CONNECT TO GREASE TRAP THEN TO SAS SEWER SERVICE LINE, IN ACCORANCE WITH APPLICABLE ABCWUA AND CITY OF ALBUQUERQUE CODES, STANDARDS AND REQUIREMENTS.

9. CONSTRUCT 1-2' SIDEWALK CULVERT PER STD DWG. 2236 (SO-19 REQUIRED, SEE NOTES ON SHEET 2) INV. IN = 8.25, INV. OUT = 8.04± MATCH EXST. FL
   EXTEND STEEL COVER PLATE 1' PAST PROPERTY LINE, TACK WELD TIE DOWN BOLTS.

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 ACCUMULATIONS 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 ACCEPTANCE OF ANY PROJECT.

CAUTION:

EXISTING UTILITIES ARE NOT SHOWN. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES & OTHER IMPROVEMENTS.

SCALE 1"=20'

Project Location

FIRM MAP: 35001C0362H

LEGAL DESCRIPTION:
LOT 2, BLOCK 26, VIRGINIA PLACE ADDITION,
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO

NOTES:
1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.

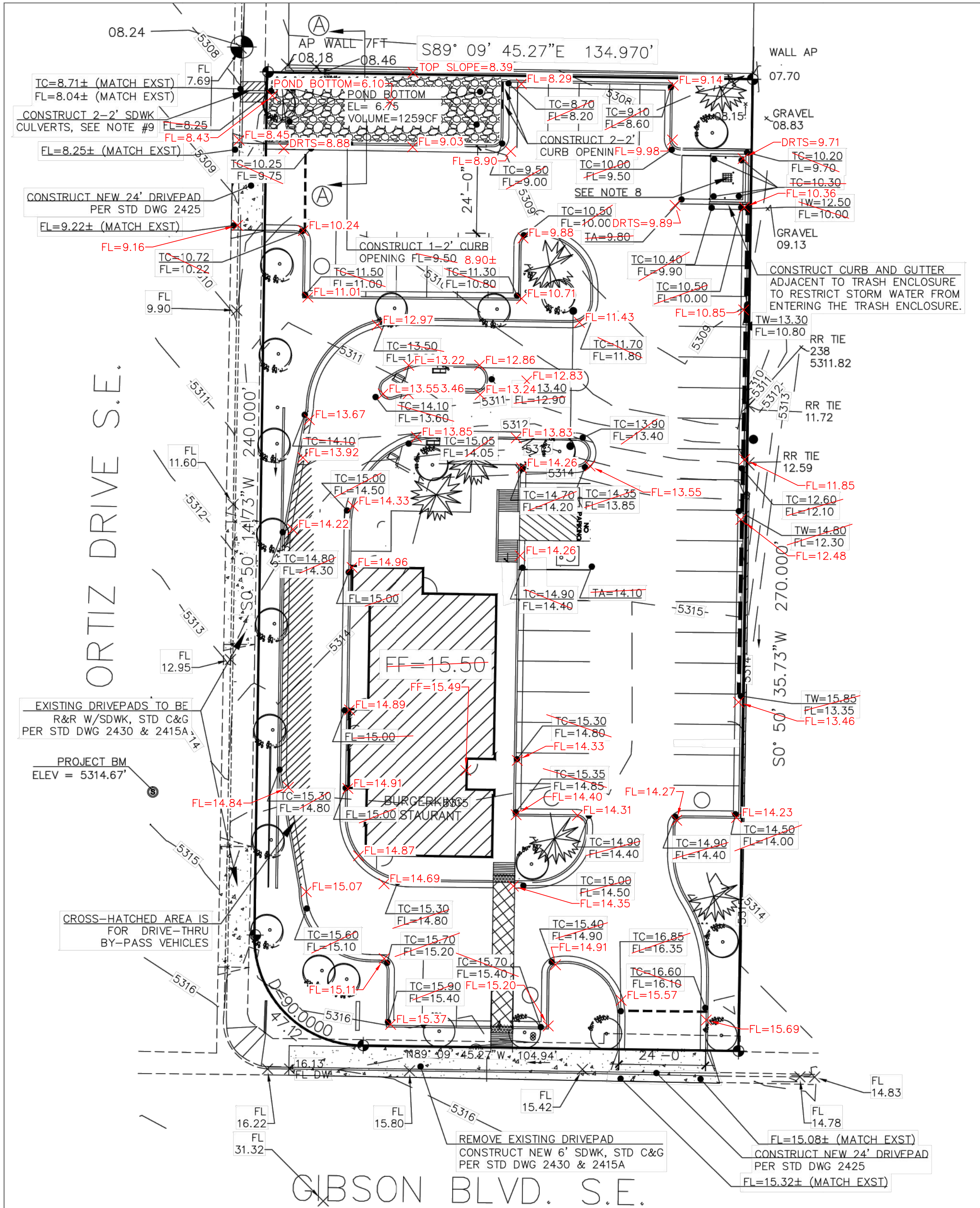2. RETAIN THE FIRST .46" OF STORM RUNOFF FROM ENTIRE DEVELOPMENT TO CONFORM TO THE WATER QUALITY REQURIEMENTS

LEGEND

Symbol	Description
TC=46.00 FL=46.00	PROPOSED SPOT ELEVATION
FL=44.00	EXISTING SPOT ELEVATION
5601	EXISTING CONTOUR
5600	EXISTING INDEX CONTOUR
5601	PROPOSED CONTOUR
5600	PROPOSED INDEX CONTOUR
	LOT LINE
	CENTERLINE
	RIGHT-OF-WAY
	PROPOSED RETAINING WALL SEE DETAIL SHEET 2
	PROPOSED ROCK FACE WALL
	PROPOSED CURB AND GUTTER SEE DETAIL SHEET 2
	PROPOSED EDGE OF CONCRETE
	PROPOSED FLOW DIRECTION
	EXISTING WALL
	PROPOSED BASIN BOUNDARY/WATER BLOCK

I HAVE PERSONALLY INSPECTED THE PROPERTY ON 7-17-18. NO EARTHWORK HAS BEEN PERFORMED AND THE SITE IS CONSISTENT WITH THE TOPO SHOWN.

Richard Dourte
Richard Dourte P.E. #10854

Project: BURGER KING -5101 GIBSON BLVD SE
Drainage Calculations - Zone 2

Depth (inches) at 100yr Storm

Zone	P60	P360	P1440	P4days	P10days
1	1.87	2.20	2.66	3.12	3.67
2	2.01	2.35	2.75	3.30	3.95
3	2.14	2.60	3.10	3.95	4.90
4	2.23	2.90	3.65	4.70	5.95

Excess Precipitation, E(inches) - 6 HR

Zone	A	B	C	D
1	0.44	0.67	0.99	1.97
2	0.53	0.78	1.13	2.12
3	0.66	0.92	1.29	2.36
4	0.80	1.08	1.46	2.64

Weighted E= ((EA*AA)+(EB*AB)+(EC*AC)+(ED*AD))/(AA+AB+AC+AD)
V_{360}=(Weighted E *P_{360})/12 in/ft
V_{1440}=V_{360}+Ao*(P_{1440}-P_{360})/12in/ft
V_{4days}=V_{360}+Ao*(P_{4day}-P_{360})/12in/ft
V_{10days}=V_{360}+Ao*(P_{10days}-P_{360})/12in/ft

Peak Discharge (CFS/ACRE) 100 YR

Zone	A	B	C	D
1	1.29	2.03	2.87	4.37
2	1.56	2.28	3.14	4.70
3	1.87	2.60	3.45	5.02
4	2.20	2.92	3.73	5.25

**************EXISTING CONDITIONS**************

Area	SQ. FT	Acres
A=	0	0.000
B=	0	0.000
C=	14500	0.333
D=	21683	0.498
Total	36183	0.831
Weighted E=		1.931

Design Flows (100YR)

Area	SQ. FT	Acres	Peak Discharge (CFS)
A=	0	0.000	0.00
B=	0	0.000	0.00
C=	14500	0.333	1.15
D=	21683	0.498	2.50
Total (CFS)			3.65

	V_{360}	V_{1440}	V_{4days}	V_{10days}
Cubic feet	5823	6727	8262	9979
Acre-ft	0.13	0.15	0.19	0.23

**************PROPOSED CONDITIONS**************

Area	SQ. FT	Acres
A=	0	0.000
B=	0	0.000
C=	8030	0.184
D=	28153	0.646
Total	36183	0.831
Weighted E=		2.123

Design Flows (100YR)

Area	SQ. FT	Acres	Peak Discharge (CFS)
A=	0	0.000	0.00
B=	0	0.000	0.00
C=	8030	0.184	0.64
D=	28153	0.646	3.24
Total (CFS)			3.88

	V_{360}	V_{1440}	V_{4days}	V_{10days}
Cubic feet	6400	7573	9567	11796
Acre-ft	0.15	0.17	0.22	0.27

The 100 year peak flows for this developed site is 3.9 CFS and the existing flows are 3.6 CFS for an increase of 0.3 CFS. The 100 year 6 hr volume increase is 6400-5823 = 577CF.

First Flush Ponding Requirement = Ao *0.34 in/12in/ft = 798 CF

BENCH MARK INFORMATION:
SAS MANHOLE RIM IN ORTIZ DRIVE, ELEVATION= 5314.67.

DRAINAGE CERTIFICATION WITH SURVEY WORK BY PROFESSIONAL SURVEYOR
DRAINAGE CERTIFICATION
I, Richard Dourte, NMPE 10854 OF THE FIRM RHD Engineering, LLC HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 9/26/18. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENTATION HAS BEEN OBTAINED BY DAVID ACOSTA, NMPS 21082 OF THE FIRM CONSTRUCTION SURVEY TECHNOLOGIES, INC. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 12/20/19 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 THE REQUEST FOR BUILDING CERTIFICATE OF OCCUPANCY.
(DESCRIBE ANY EXCEPTIONS AND /OR QUALIFICATIONS HERE IN A SEPARATE PARAGRAPH.)
1. ASBUILT GRADES ARE IN RED.
2.

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 DOCUMENTATION ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

Richard Dourte
Richard Dourte, NMPE 10854
12/20/19
Date

ORTIZ DRIVE S.E.

GIBSON BLVD. S.E.

FF=15.50

BURGERKING RESTAURANT

PROJECT BM
ELEV = 5314.67

EXISTING DRIVEPADS TO BE R&R W/SDWK, STD C&G PER STD DWG 2430 & 2415A

REMOVE EXISTING DRIVEPAD CONSTRUCT NEW 6' SDWK, STD C&G PER STD DWG 2430 & 2415A

CONSTRUCT NEW 24' DRIVEPAD PER STD DWG 2425

CROSS-HATCHED AREA IS FOR DRIVE-THRU BY-PASS VEHICLES

S89° 09' 45.27"E 134.970'