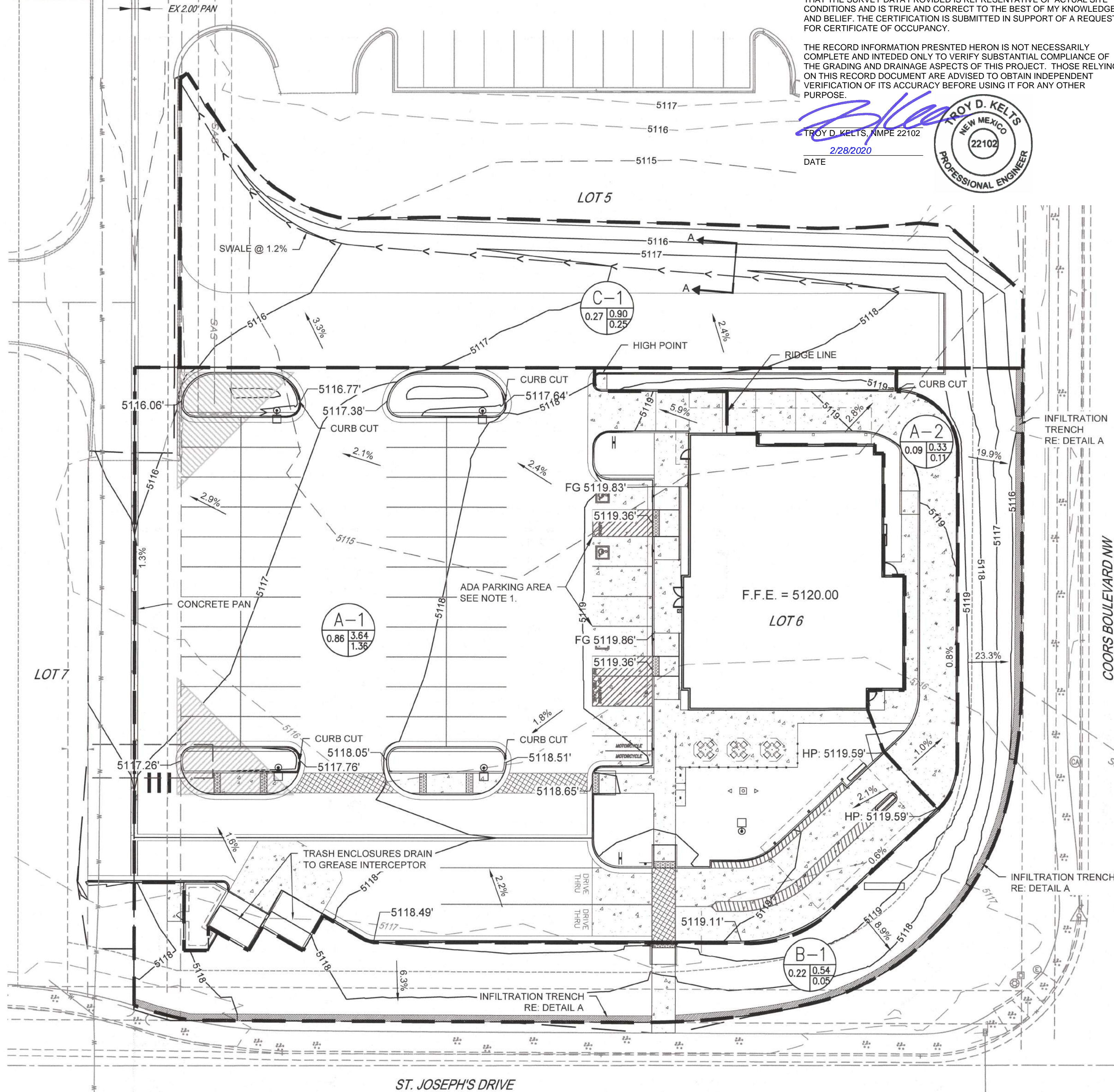


NOTE:  
EXISTING PAN DRAINS TO COORS  
PAVILION POND LOCATED IN THE  
NORTHWEST CORNER OF LOT 9, PER  
THE COORS PAVILION MASTER  
DRAINAGE PLAN



#### DRAINAGE CERTIFICATION

I, TROY D. KELTS, NMPE 22102, OF FIRM MERRICK & COMPANY, HERBY CERTIFY THAT THIS PROJECT HAS BEEN BRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 8/1/2019. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY ANDREW S. MEDINA, NMPS 12649, OF THE FIRM SANDIA LAND SURVEYING. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 2/28/2020 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. THE CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR CERTIFICATE OF OCCUPANCY.

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.

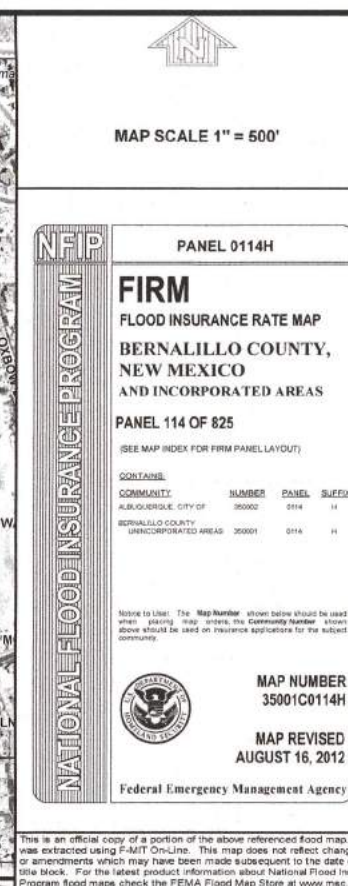
TROY D. KELTS, NMPE 22102

2/28/2020

DATE



FIRM MAP NO 35001C0114H



VICINITY MAP  
N.T.S.

#### DRAINAGE INFORMATION

##### LOCATION & DESCRIPTION

THE PROPOSED SITE IS LOT 6 OF COORS PAVILION AND IS 1.16 ACRES LOCATED ON THE NORTH SIDE OF ST. JOSEPH'S BLVD. AND THE WEST SIDE OF COORS BLVD. THE PROPOSED DEVELOPMENT WILL BE A FAST FOOD RESTAURANT WITH ALL THE ASSOCIATED IMPROVEMENTS.

##### FLOODPLAIN STATUS

THE PROJECT, AS SHOWN ON FEMA'S FLOOD INSURANCE RATE MAP 35001C0114H, 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 PROCESS 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. THE LAND USE PERCENTAGES OF THAT STUDY ARE UTILIZED IN THE ANALYSIS.

##### DEVELOPED CONDITION

THE SITE WILL BE DEVELOPED WITH SITE FLOWS FROM 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 FROM BASIN B-1 ADJACENT TO COORS BLVD AND ST. JOSEPH'S DR WILL BE CAPTURED BY AN INFILTRATION TRENCH AT THE REAR OF THE EXISTING SIDEWALK, ALLOWING NO RUNOFF FROM THIS SITE TO ENTER EITHER ROADWAY RIGHT-OF-WAY.

##### REQUIRED FIRST FLUSH VOLUME

LOT DRAINAGE AS DEPICTED ON THIS PLAN SHALL BE MAINTAINED

LOT DEPICTED HEREON SHALL BE RESPONSIBLE FOR MAINTAINING FIRST FLUSH RUNOFF RETENTION INDICATED ON THE LOT IMMEDIATELY PRIOR TO DISCHARGE. THE TOTAL VOLUME SHALL BE EQUAL TO: IMPERVIOUS AREA \* (0.44-0.10)/12 IN CUBIC FEET.

IMPERVIOUS AREA: 36,996 SF

REQUIRED VOLUME = 36,996 \* (0.44-0.10)/12 = 1049 FT<sup>3</sup>

PROVIDED VOLUME ON SITE (BASIN A) = 0 FT<sup>3</sup>

PROVIDED VOLUME IN DEVELOPMENT POND = 1289 FT<sup>3</sup>

Basin	Land Treatment (ac)				
	A	B	C	D	Total
A-1	0	0	0.07	0.79	0.86
A-2	0	0	0.02	0.07	0.09
B-1	0	0.13	0.08	0.00	0.21
Lot 6 Total	0	0.13	0.17	0.86	1.16
C-1	0	0.06	0.08	0.12	0.27

	Basin			
	A-1	A-2	B-1	C-1
100 YR RUNOFF (cfs)	3.65	0.36	0.51	0.90
10 YR RUNOFF (cfs)	2.39	0.23	0.23	0.53
2 YR RUNOFF (cfs)	1.37	1.37	0.13	0.05
V360 (cu-ft)	5901	563	637	1328

REQUIRED VOLUME ON SITE (BASIN B) = 637 FT<sup>3</sup>

PROVIDED VOLUME ON SITE (BASIN B) = (410 \* (2'2")/0.4) = 656 FT<sup>3</sup>

#### NOTES:

- ADA STALLS SHALL HAVE A MAXIMUM SLOPE OF 2% IN ANY DIRECTION.
- ELEVATIONS ARE 51XX.XX, UNLESS OTHERWISE SPECIFIED.
- ALL DIMENSIONS REFERENCE FLOWLINE, BUILDING FOUNDATION OR PROPERTY LINE, UNLESS OTHERWISE SPECIFIED.

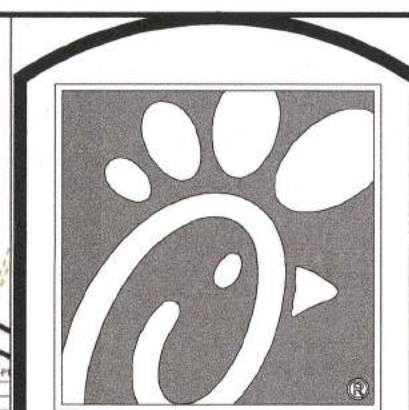
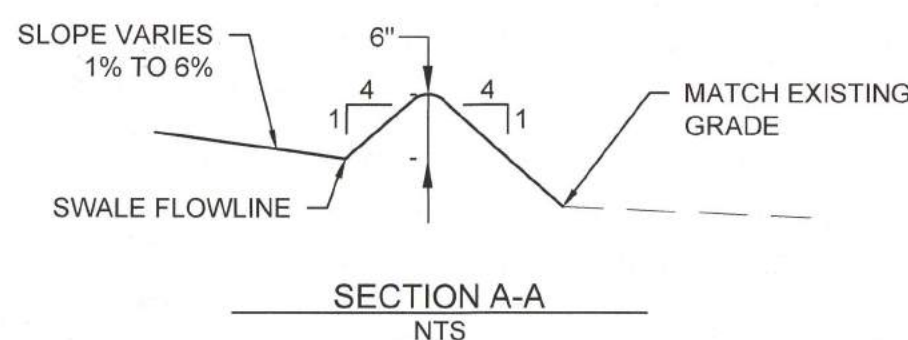
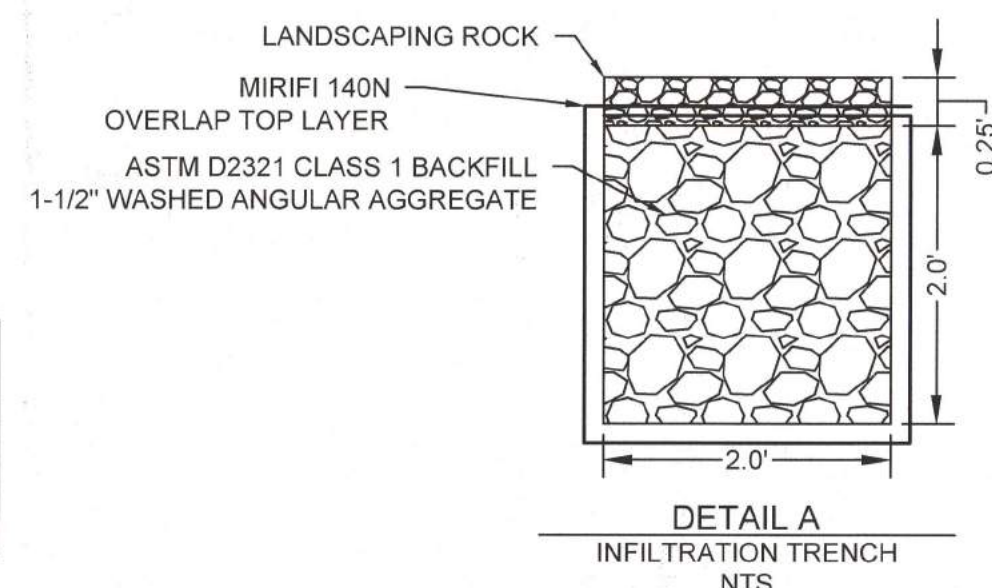
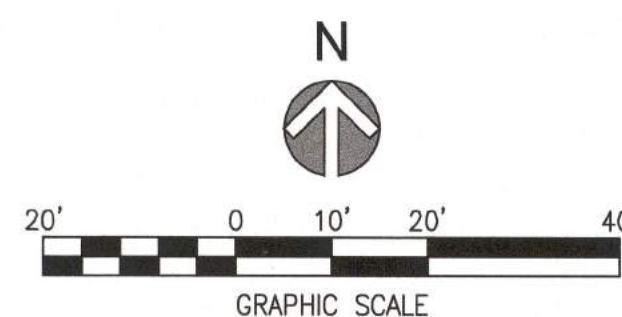
#### EROSION CONTROL NOTES:

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

#### LEGEND:

- PROPERTY LINE
- LIMITS OF GRADING
- 4945 PROPOSED MAJOR CONTOUR
- 4943 PROPOSED MINOR CONTOUR
- 4945 EXISTING MAJOR CONTOUR
- 4943 EXISTING MINOR CONTOUR
- 42.69'x FLOWLINE SPOT ELEVATION
- FF: 42.69'x FINISHED FLOOR SPOT ELEVATION
- FG: 42.69'x FINISHED GRADE SPOT ELEVATION
- TC: 93.41'x TOP OF CURB SPOT ELEVATION
- EG: 93.41'x EXISTING GRADE SPOT ELEVATION
- EX FL: 93.41'x EXISTING FLOWLINE SPOT ELEVATION
- 2.7% PROPOSED SLOPE ARROWS
- EX 2.7% EXISTING SLOPE ARROWS
- BASIN LINES
- STORM INLET
- STORM MANHOLE

- A-1 BASIN IDENTIFICATION
- 1.94 BASIN 100 YR RUNOFF (cfs)
- 0.83 BASIN 2 YR RUNOFF (cfs)
- 0.91 BASIN AREA (ACRES)



5200 Buffington Rd.  
Atlanta, Georgia  
30349-2998

Revisions:  
Mark Date By

Mark Date By

Mark Date By



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

4001 COORS BLVD NW  
ALBUQUERQUE, NM  
87120

SHEET TITLE  
**GRADING  
AND  
DRAINAGE  
PLAN**

DWG EDITION

Job No. : 65119594  
Store : 04107  
Date : 8/1/19  
Drawn By : LV  
Checked By : KW

Sheet  
**3**