

CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Interim Director



Mayor Timothy M. Keller

June 9, 2020

Robert Fierro, P.E.
Fierro & Company
6300 Montano Rd. NW
Albuquerque, NM 87120

**RE: Academy Parkway Self-Storage
3605 Osuna Rd. NW
Grading and Drainage Plan
Engineer's Stamp Date: 08/22/19
Hydrology File: E17D001W**

Dear Mr. Fierro:

PO Box 1293

Based on the submittal received on 5/28/20, this certification is approved in support of Permanent Certificate of Occupancy by Hydrology.

Albuquerque

If you have any questions, please contact me at 924-3986 or earmijo@cabq.gov.

NM 87103

Sincerely,

www.cabq.gov

Ernest Armijo, P.E.
Principal Engineer, Planning Dept.
Development Review Services



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 3/2018)

Project Title: _____ **Building Permit #:** _____ **Hydrology File #:** _____

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

Legal Description: _____

City Address: _____

Applicant: _____ **Contact:** _____

Address: _____

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

Other Contact: _____ **Contact:** _____

Address: _____

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

Check all that Apply:

IS THIS A RESUBMITTAL?: ____ Yes ____ No

DEPARTMENT:

- ____ HYDROLOGY/ DRAINAGE
____ TRAFFIC/ TRANSPORTATION

TYPE OF SUBMITTAL:

- ____ ENGINEER/ARCHITECT CERTIFICATION
____ PAD CERTIFICATION
____ CONCEPTUAL G & D PLAN
____ 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
____ 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) _____

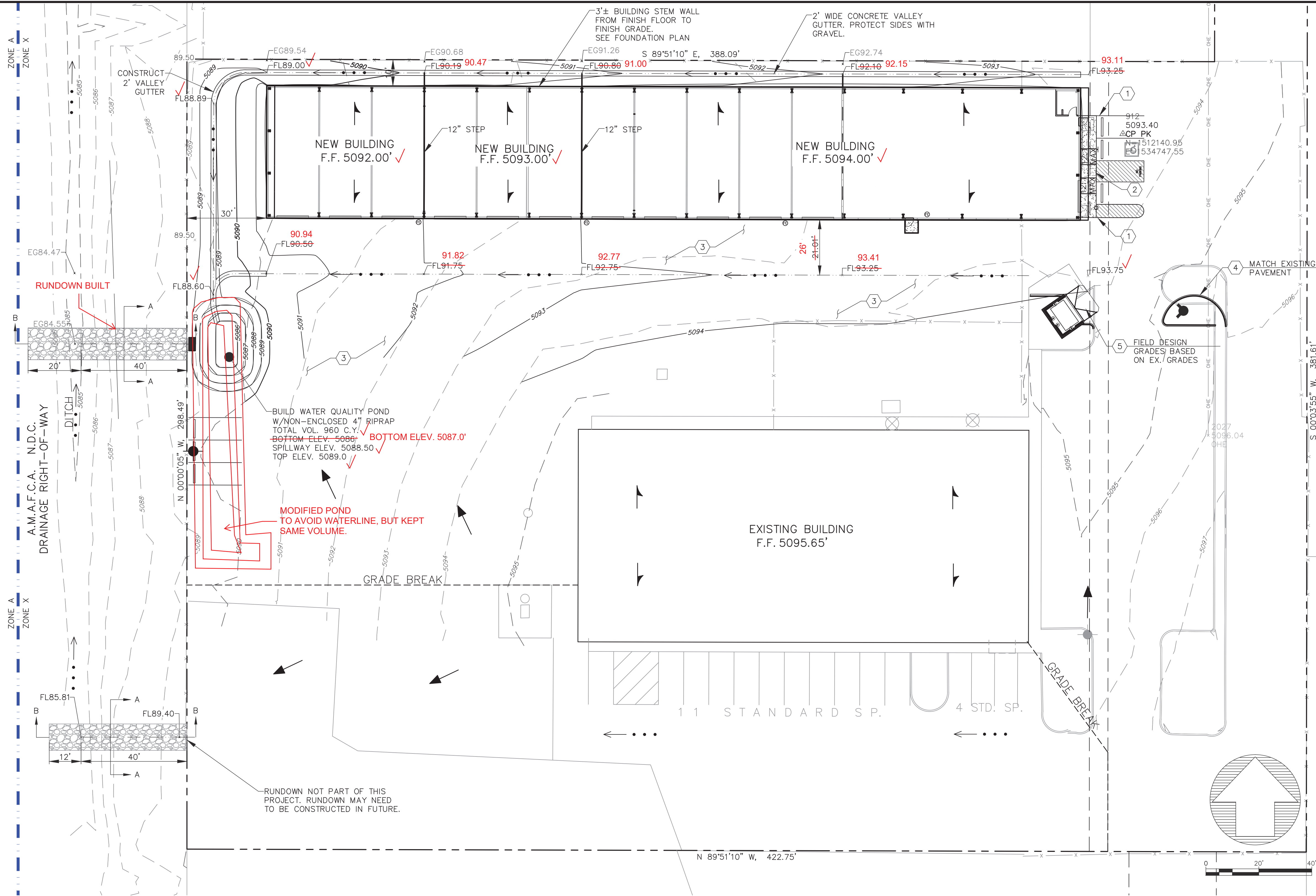
DATE SUBMITTED: _____ **By:** _____

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____

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GENERAL GRADING NOTES:

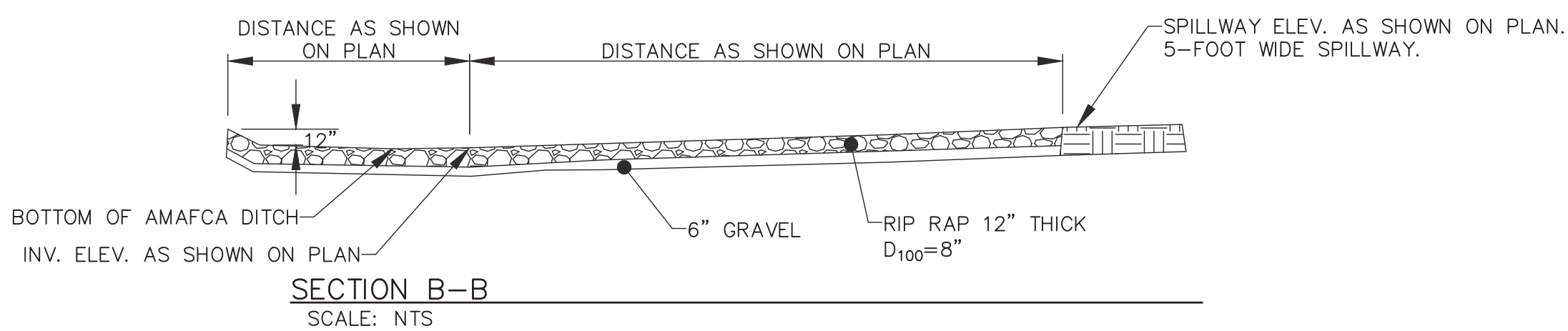
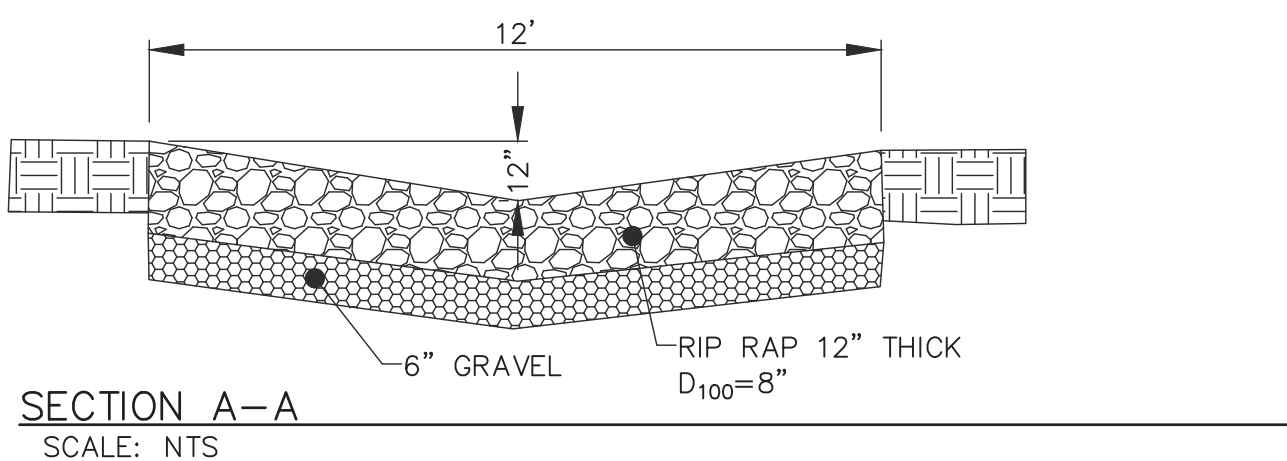
1. THIS PLAN RECOMMENDS POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES TO PROHIBIT PONDING OF RUNOFF WHICH MAY CAUSE STRUCTURAL SETTLEMENT. FUTURE ALTERATION OF GRADES ADJACENT TO THE PROPOSED STRUCTURES IS NOT RECOMMENDED.
2. PERFORM GRADING AND EXCAVATION WORK IN COMPLIANCE WITH APPLICABLE SPECIFICATIONS, REQUIREMENTS, CODES AND ORDINANCES OF ALBUQUERQUE, NEW MEXICO.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF OR OBTAINING EXCESS CUT OR FILL MATERIAL REQUIRED FOR FINAL GRADE.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING AND COORDINATING WITH NEW MEXICO ONE CALL PRIOR EXCAVATION.
5. DO NOT DEPRESS LANDSCAPING WITHIN 15- FEET FROM BUILDING FOUNDATION.

KEYED NOTES:

1. CONSTRUCT TURNDOWN SIDEWALK PER DETAIL 1/C-3.
2. CONSTRUCT TURNDOWN SIDEWALK AT ACCESSIBLE ZONES PER DETAIL 2/C-3.
3. CONSTRUCT ASPHALT PAVEMENT PER DETAIL 3/C-3.
4. CONSTRUCT HEADER CURB PER DETAIL 4/C-3.
5. CONSTRUCT CONCRETE PER DETAIL 5/C-3.
6. CONSTRUCT GRAVEL RUNDOWN PER DETAIL 1/C-1.

LEGEND

- PROPERTY BOUNDARY
- APPROX. FLOODPLAIN LINE
- FLOW PATH
- PROPOSED RETAINING WALL
- FLOWLINE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- FG26.29
- FL
- TA
- TBC
- TC
- TOC
- TS
- TW
- BW
- ROOF FLOW DIRECTION
- SURFACE FLOW DIRECTION
- NEW SIDEWALK
- FIRST FLUSH PONDING LIMITS



DRAINAGE CERTIFICATION OF SUBSTANTIAL COMPLIANCE

I, ROBERT J. FIERRO, NME 20585, OF FIRM FIERRO & COMPANY, HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 8/22/2019. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY ME, NMPS 22909. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISTED THE PROJECT SITE ON OCTOBER 2, 2018 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 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 RELEYING ON THE RECORD DOCUMENTS ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY PURPOSE.



A.M.A.F.C.A. NOTE

COORDINATE WITH A.M.A.F.C.A.'S REPRESENTATIVE NICOLE M. FRIEDT, PE AT (505) 884-2215 48 HOURS PRIOR TO WORK WITHIN A.M.A.F.C.A.'S NORTH DIVERSION CHANNEL.

BENCH MARK

CITY OF ALBUQUERQUE GEODETIC CONTROL "20-116"
NAVD 1988 ELEVATION 5210.836'
LOCATED AT THE SW CORNER OF GIRARD BLVD. SE AND
BURTON AVENUE SE

ACADEMY PARKWAY SELF STORAGE
3605 OSUNA ROAD N.E.
ALBUQUERQUE, NM 87109

PROJECT NAME

REV.	DATE	DESCRIPTION	BY

PROJECT NO:	19012
DESIGNED BY:	RJF
DRAWN BY:	RJS
CHECKED BY:	RJF
DATE:	MAY 2019
SHEET TITLE	

GRADING
PLAN

SHEET NO:

C-1

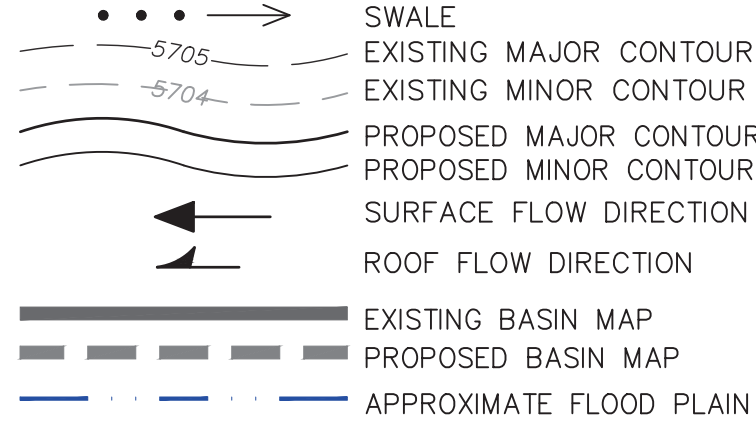
ENGINEER'S SEAL



Fierro & Company
ENGINEERING | SURVEYING
6300 MONTANO RD. NW, SUITE C
ALBUQUERQUE, NEW MEXICO 87120
PH (505) 352-8930
www.fierrocompany.com



The City's requirements have been satisfied under this grading & drainage plan. The contractor shall use these civil sheets for construction, and will need a drainage certification in order to obtain a Close-out. This drainage report seeks approval for building permit and work within AMAFCA's right-of-way.



(A6) HYDROLOGY CALCULATIONS

Triangular		Highland	
Side Slopes (z:1)	= 6.00, 6.00	Depth (ft)	= 0.66
Total Depth (ft)	= 1.00	Q (cfs)	= 11.01
		Area (sqft)	= 2.61
Invert Elev (ft)	= 100.0	Velocity (ft/s)	= 4.21
Slope (%)	= 4.00	Wetted Perim (ft)	= 8.03
N-Value	= 0.033	Crit Depth, Yc (ft)	= 0.74
		Top Width (ft)	= 7.92
Calculations		EGL (ft)	= 0.94

Triangular		Highlighted	
Side Slopes (z:1)	= 6.00, 6.00	Depth (ft)	= 0.45
Total Depth (ft)	= 1.00	Q (cfs)	= 4.00
		Area (sqft)	= 1.21
Invert Elev (ft)	= 100.0	Velocity (ft/s)	= 3.29
Slope (%)	= 4.00	Wetted Perim (ft)	= 5.47
N-Value	= 0.033	Crit Depth, Yc (ft)	= 0.49
		Top Width (ft)	= 5.40
		EGL (ft)	= 0.62
Calculations			

ENGINEER'S SEAL

ROBERT J. FIERRO
NEW MEXICO
20585
8-22-2019
PROFESSIONAL ENGINEER

ACADEMY PARKWAY SELF STORAGE
3605 OSUNA ROAD N.E.
ALBUQUERQUE, NM 87109

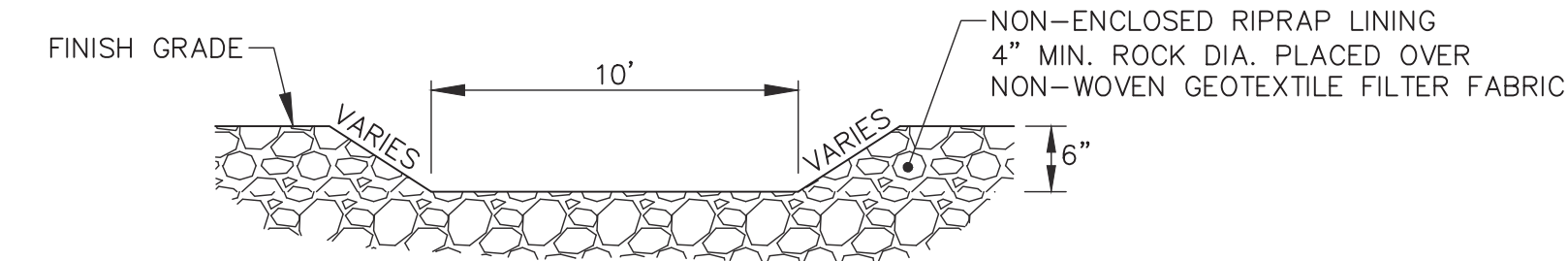
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PROJECT NO:	19012
DESIGNED BY:	RJP
DRAWN BY:	RJS
CHECKED BY:	RJP
DATE:	MAY 2019
SHEET TITLE	

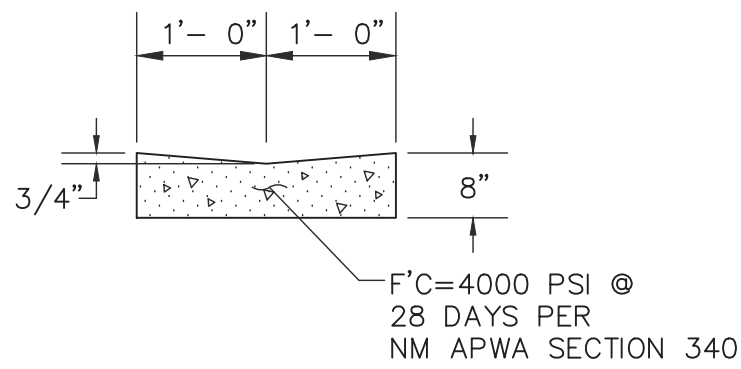
DRAINAGE PLAN

SHEET NO: C-2

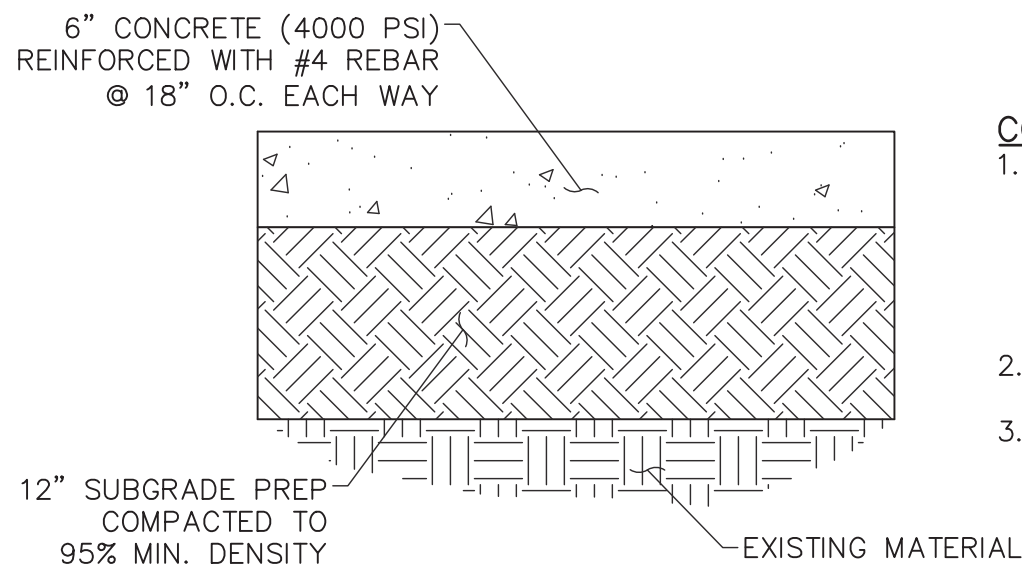
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7 POND OVERFLOW WEIR SECTION
SCALE: NTS

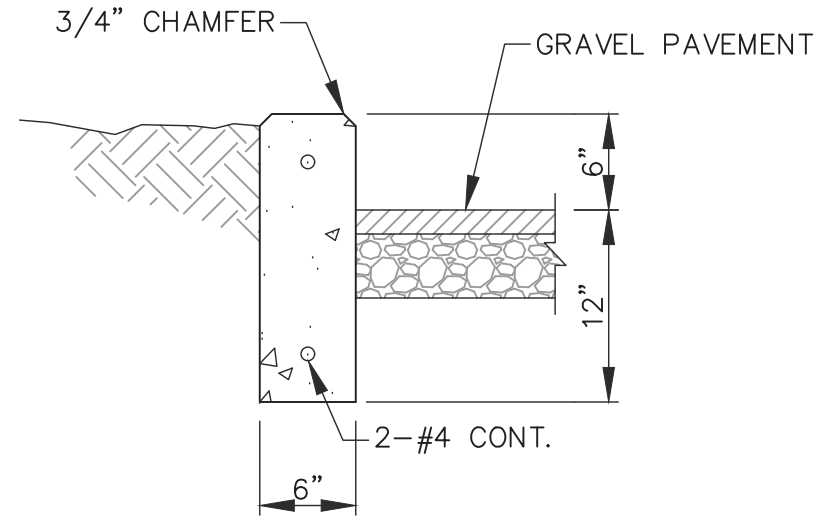


6 2-FT WIDE GUTTER
SCALE: NTS

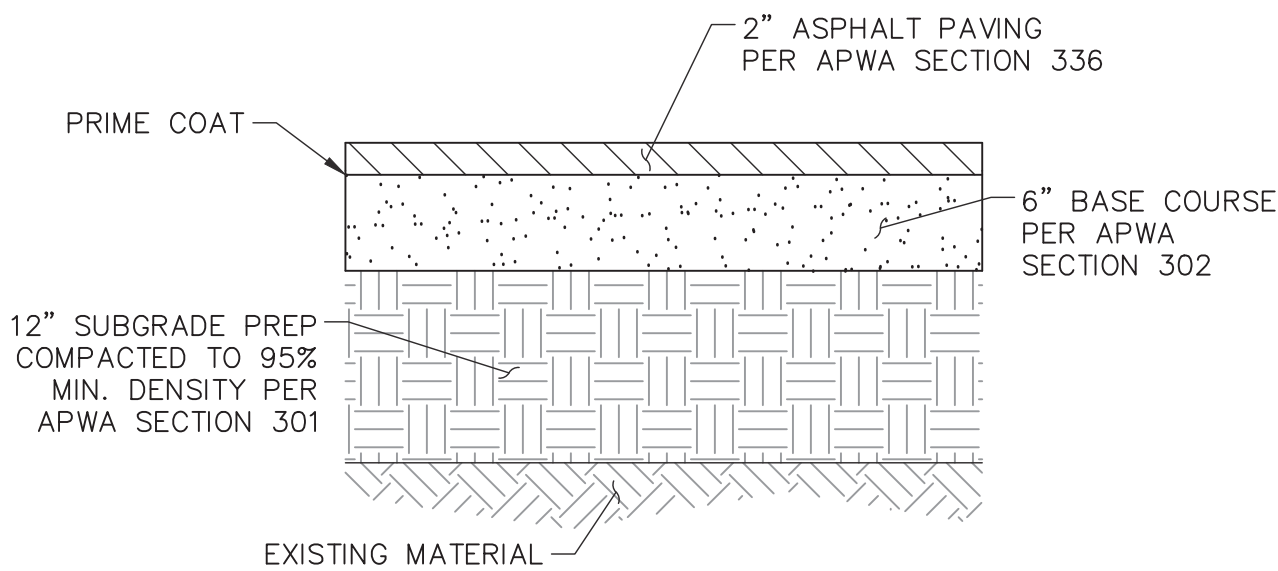


5 TYPICAL 6" PCC
SCALE: NTS

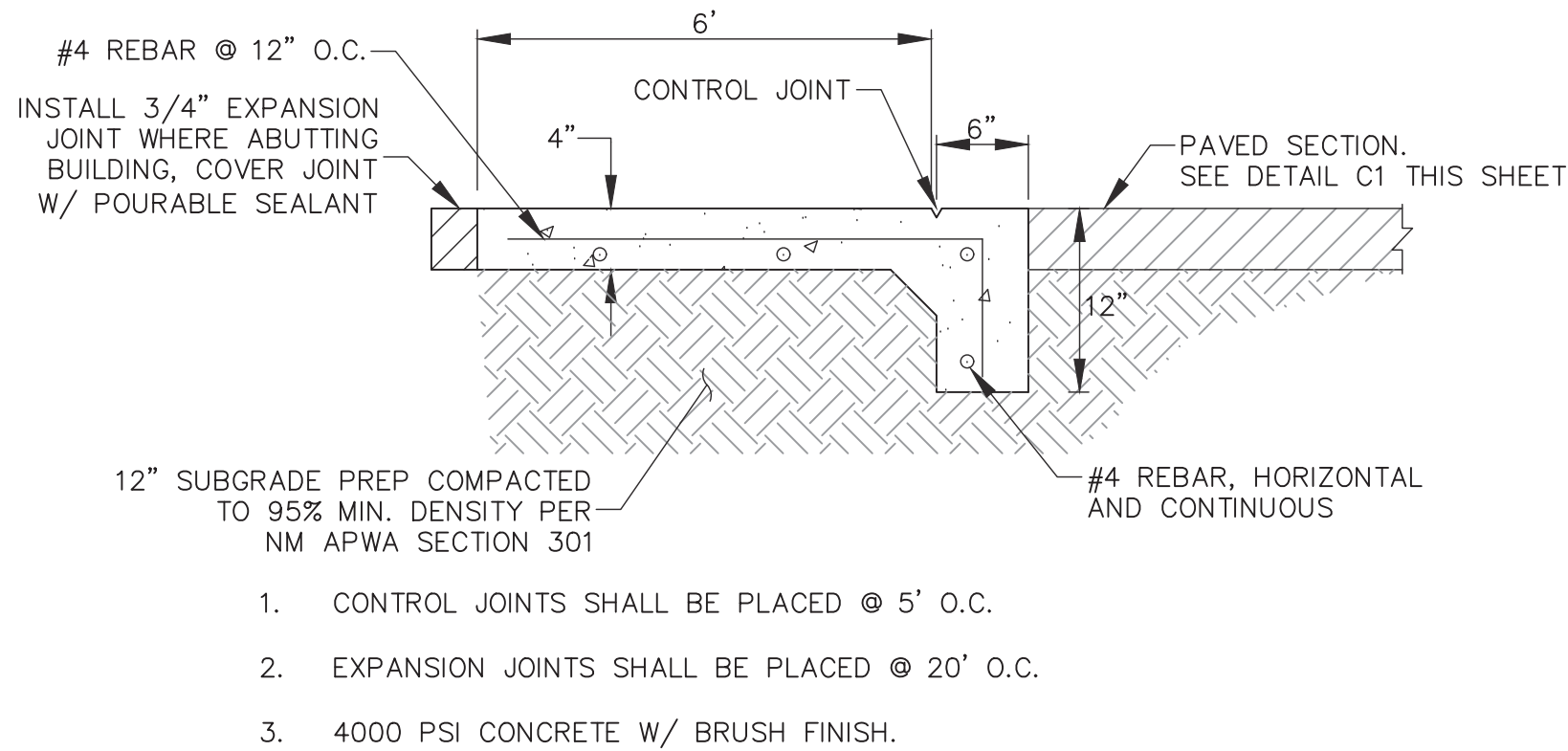
- CONSTRUCTION NOTES:**
1. WHEN ABUTTING TO VERTICAL WALLS, BENCHES OR BUILDINGS, INSTALL 1/2" BITUMINOUS EXPANSION JOINT. RECESS 1/4" VERTICALLY. INSTALL SIKA-FLEX POLYMER SEALANT OR APPROVED EQUAL.
 2. INSTALL CONTRACTION JOINTS @ 6'-0" O.C.
 3. LIGHT BROOM FINISH CONCRETE SURFACE REQUIRED.



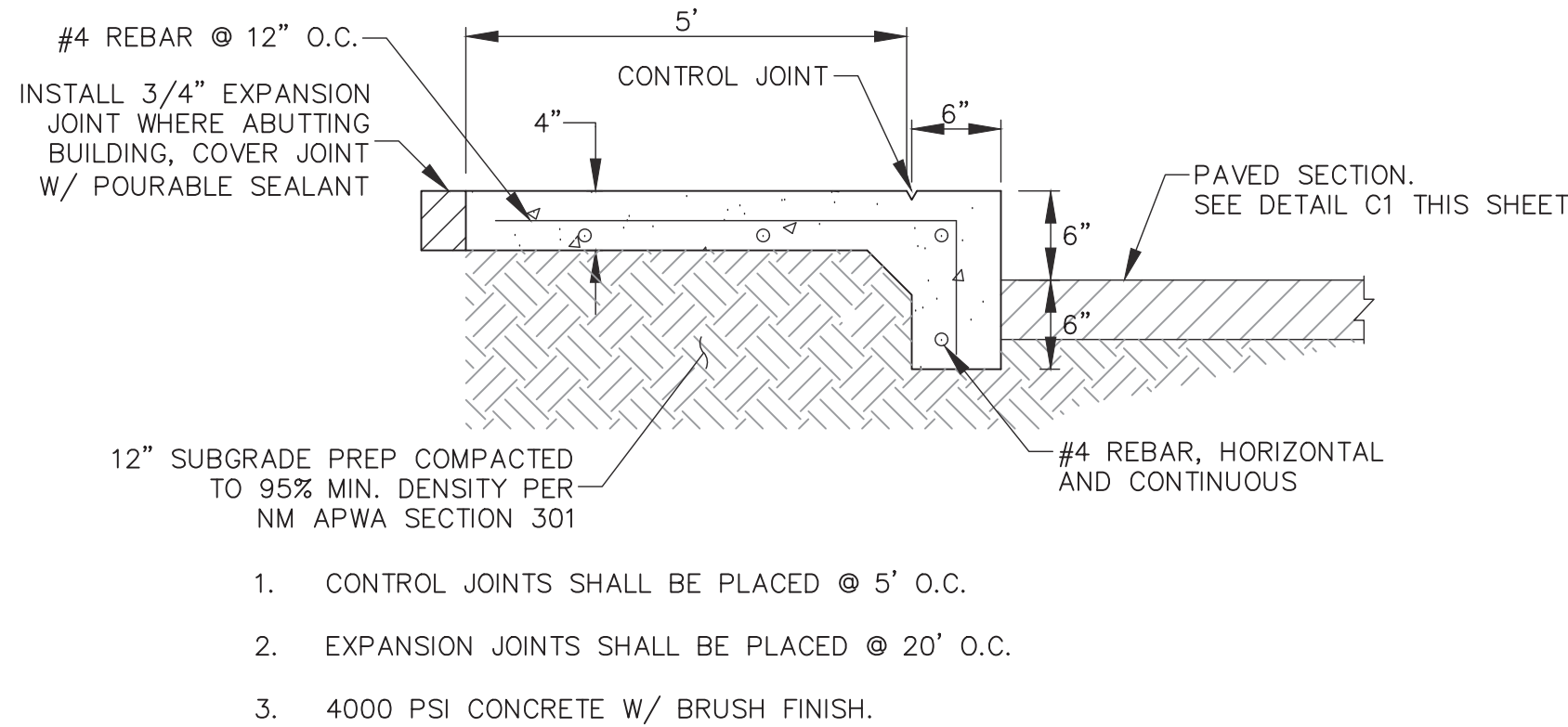
4 HEADER CURB DETAIL
SCALE: NTS



3 TYPICAL ASPHALT PAVEMENT SECTION
SCALE: NTS



2 TURN DOWN SIDEWALK AT ACCESSIBLE ZONES
SCALE: 1" = 1'



1 TURN DOWN SIDEWALK
SCALE: 1" = 1'

CURB GENERAL NOTES

1. ANY DEVIATIONS FROM THESE STANDARDS SHALL BE SUBMITTED TO THE CITY ENGINEER FOR PRIOR APPROVAL.
2. ALL WORK IN PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED BY A LICENSED CONTRACTOR AND REQUIRES PERMIT AND APPROVAL BY THE DEPT OF PUBLIC WORKS.
3. SUBGRADE SHALL BE COMPACTED TO 95% ASTM D 1557, MIN.
4. CURB SHALL BE PORTLAND CEMENT CONCRETE. PORTLAND CEMENT CONCRETE SHALL BE 3000 PSI @ 28 DAYS w/CLASS F FLY ASH AND 7% +/- 2% AIR ENTRAINMENT. (MAX 20% FLY ASH BY WEIGHT).
5. FOR CONCRETE CURB CONSTRUCT TRANSVERSE JOINTS AS FOLLOWS:
 - TOOLED CONTRACTION JOINTS AT 5' INTERVALS.
 - 1/2" PRE-MOLDED BITUMINOUS EXPANSION JOINTS AT 15' INTERVALS.
 - SEALED EXPANSION JOINTS AT 90' INTERVALS.
6. DIMENSIONS AT ROUNDED CORNERS MEASURED TO INTERSECTION OF STRAIGHT LINES.

CONSTRUCTION NOTES

1. PRIOR TO CONSTRUCTION, CONTRACTOR TO OBTAIN PAVEMENT DESIGN FROM A MATERIAL LAB WITH A LICENSED PROFESSIONAL ENGINEER. USE PAVEMENT SECTION RECOMMENDED UNDER PAVEMENT DESIGN FROM MATERIAL LAB. THIS DETAIL IS PROVIDED AS A BASES FOR COST ESTIMATING PURPOSES.

ACADEMY PARKWAY SELF STORAGE
3605 OSUNA ROAD N.E.
ALBUQUERQUE, NM 87109

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PROJECT NO:	19012
DESIGNED BY:	RJF
DRAWN BY:	RJS
CHECKED BY:	RJF
DATE:	MAY 2019
SHEET TITLE	DETAILS

SHEET NO:

C-3

ENGINEER'S SEAL



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