

CITY OF ALBUQUERQUE

PLANNING DEPARTMENT – Development & Building Services



August 28, 2012

Brian Warren, P.E.
Bohannon Huston, Inc.
7500 Jefferson NE – Courtyard 1
Albuquerque, NM 87109

Re: Mountain America Credit Union Grading & Drainage Plan, (D20-D010A)
Parcel B, Parcels A, B & C Ventura Plaza **P.E. Stamp: 5/18/12**

Dear Mr. Warren,

Based upon the information provided in your submittal received May 22, 2012, and additional approvals from New Mexico Department of Transportation (NM-DOT), documented in your email of 8/23/12, and email from Christina Bahl dated 8/28/12, **the above referenced plan is approved for Grading Permit and Building Permit.**

Prior to Certificate of Occupancy approval from this office, an Engineer's Certification of compliance with this Grading and Drainage plan is required per the DPM. The following items must be addressed as part of that Certification submittal:

1. This plan lacks a few presentation features required for Grading and Drainage Plans, per the DPM Chapter 22. Please review the criteria, and update future submittals. For this site, I ask that you at least add a location map to the as-built Certification Plan.
2. We will require documentation from NM-DOT of their acceptance of the storm drain connection at the NW corner of the site, authorized under NM-DOT Permit # 3-16723.

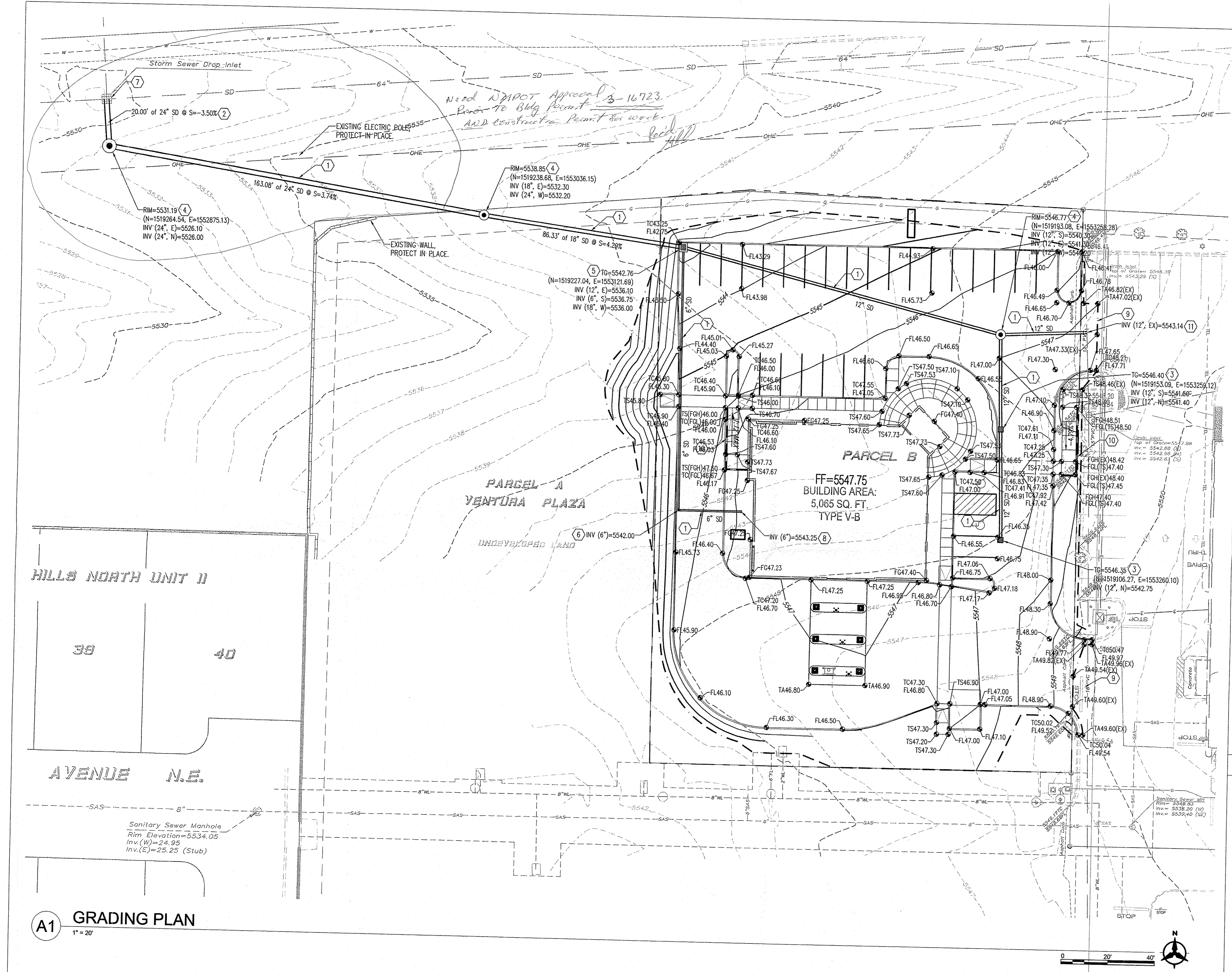
Albuquerque's MS4 Permit became effective March 1st, 2012. Grading and Drainage Plans and Drainage Reports must comply with the requirements of the new permit. Review at: <ftp://ftp.nmenv.state.nm.us/www/swqb/NPDES/Permits/NMS000101-AlbuquerqueMS4.pdf>

If you have any questions, you can contact me at 924-3695.

Sincerely,

Gregory R. Olson, P.E.
Senior Engineer

Orig: Drainage file **D20/D010A**
c.pdf Addressee via Email Bwarren@BHInc.com

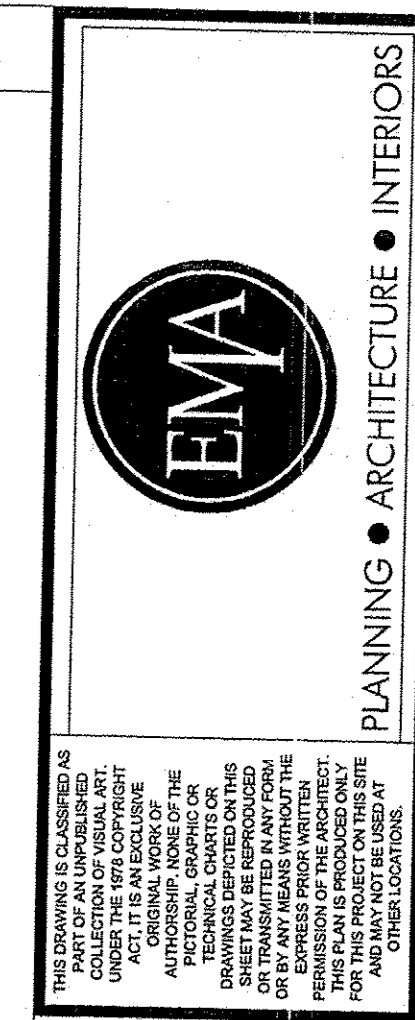


- ### GRADING KEYED NOTES
1. INSTALL SD PIPE; HDPE N-12WT OR APPROVED EQUAL, SIZE PER PLAN.
 2. INSTALL RCP, CLASS III, STORM DRAIN PIPE, SIZE PER PLAN.
 3. INSTALL 24" NYLOPLAST (OR APPROVED EQUAL) STORM BASIN INLET STRUCTURE W/ STANDARD GRATE (H-25 LOADING).
 4. INSTALL 6" STORM DRAIN MANHOLE PER COA STD DWG 2102.
 5. INSTALL WATER QUALITY TYPE "D" SINGLE GRATE INLET, PER DETAIL A1, SHEET C-200, & COA STD DWG 2206.
 6. INSTALL PRE-FABRICATED, WATER-TIGHT, STORM DRAIN FITTING.
 7. CONNECT STORM DRAIN LINE TO EXISTING STORM DRAIN BASIN. CONTRACTOR TO VERIFY TOP OF GRATE AND INVERTS AND CONTACT ENGINEER WITH ANY DISCREPANCIES.
 8. CONNECT TO ROOF DRAIN, SEE PLUMBING PLANS FOR CONTINUATION.
 9. MATCH TO EXISTING FINISHED GRADE, EXISTING SPOT ELEVATIONS SHOWN ARE APPROXIMATE.
 10. RETAINING WALL, SEE ARCHITECTURAL PLAN FOR DETAIL.
 11. CONNECT TO EXISTING 12" STORM DRAIN, INSTALL PRE-FABRICATED, WATER TIGHT, STORM DRAIN FITTING, CAP EXISTING 12" STORM DRAIN ON DOWNSTREAM END. CONTRACTOR SHALL VERIFY LOCATION AND INVERT AND CONTACT ENGINEER WITH ANY DISCREPANCIES.

At Inlet per DMP.

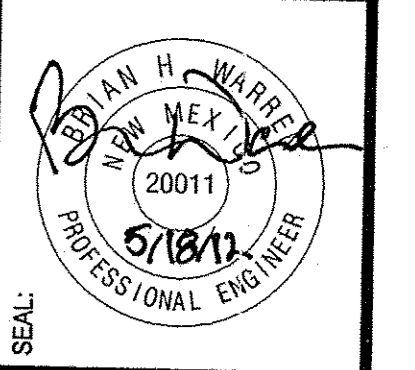
Grading map on cert. Provide Loc. MAP on CERT.

- ### LEGEND
- PROPERTY LINE
 - PROJECT LIMITS OF GRADING
 - EXISTING INDEX CONTOUR
 - EXISTING INTERMEDIATE CONTOUR
 - EXISTING GROUND ELEVATION
 - PROPOSED GROUND ELEVATION
 - FL=FLOW LINE, TC=TOP OF CURB
 - TS=TOP OF SIDEWALK, TG=TOP OF GRATE
 - FGH=FINISH GROUND HIGH SIDE
 - FGL=FINISH GROUND LOW SIDE
 - DIRECTION OF FLOW
 - GRADE BREAK/WATER BLOCK
 - PROPOSED INDEX CONTOUR
 - PROPOSED INTERMEDIATE CONTOUR
 - PROPOSED CURB & GUTTER
 - PROPOSED RETAINING WALL
 - PROPOSED STORM DRAIN LINE
 - PROPOSED STORM DRAIN MANHOLE
 - PROPOSED STORM DRAIN INLETS



REV	DATE	DESCRIPTION

PROJECT: **MOUNTAIN AMERICA CREDIT UNION**
ALBUQUERQUE BRANCH
PASEO DEL NORTE & VENTURA ST. - PARCEL B
ALBUQUERQUE, NM 87109
EMA ARCHITECTS | 800 WASHINGTON BLVD. - OGDEN, UT 84001 | PH: 801-616-3463



SHEET TITLE: **GRADING PLAN**
SHEET NUMBER: **C-201**
PROJECT: 2013.0048 ORIGINAL ISSUE: 05/19/2012
D20/DC10A 1-13



Inlet #	Inlet Type	Basin	Actual Flow	Avail Head ft	Capacity** CFS
IN1	24" NYLOPLAST*	BASIN B	0.40	0.48	5.00
IN2	24" NYLOPLAST*	BASIN C	0.34	0.25	2.20
IN3	COA TYPE D* (WATER QUALITY)	BASIN D	2.86	0.50	7.50
*INLET IN SUMP CONDITION					

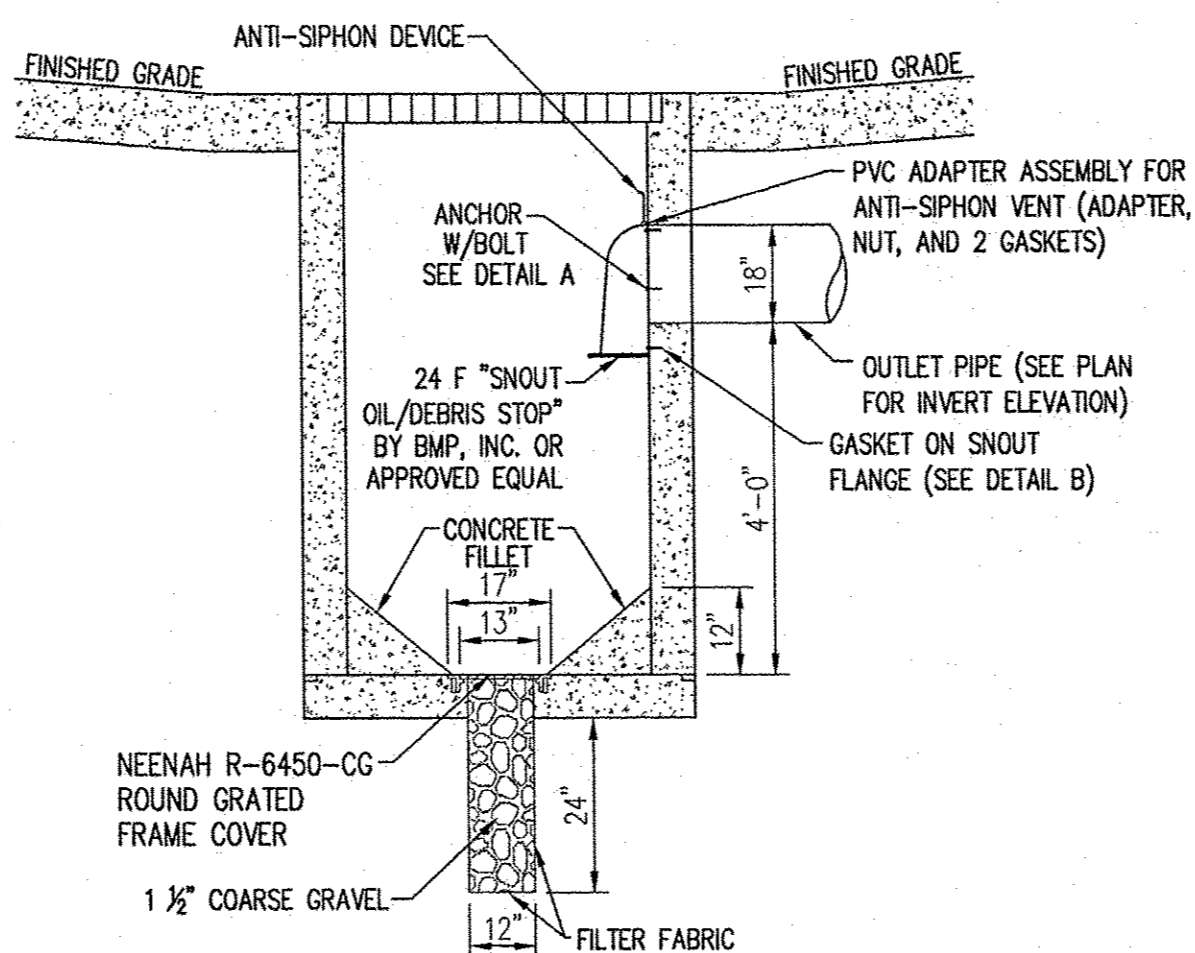
STORM DRAIN PIPE TABLE					
PIPE #	INLET/SD/BASIN	Size	Slope	Capacity*	ACTUAL FLOW
		in.		cfs	cfs
SD1	IN1	12	2.67%	5.82	0.40
SD2	SD1, IN2	12	2.75%	5.91	0.74
SD3	BASIN "G"	12	5.00%	7.97	1.94
SD4	SD2, SD3	12	2.92%	6.09	2.68
SD5	BASIN A	6	4.60%	1.20	0.60
SD6	SD4, SD5, IN3	18	4.30%	21.78	6.13
SD7	SD5	24	3.75%	43.81	6.13
SD8	SD6	24	3.50%	42.32	6.13

Capacity Based on Manning's Eq w/ N=0.01

Capacity Based on Manning's Eq w/ $N=0.01$

P:\20130048\CDP\Hydro\20130048DMP01.dwg
Fri, 18-May-2012 - 10:32:am, Plotted by: BWARREN

SCALE: 1" = 20'



A1 WATER QUALITY INLET
N.T.S.

14. UTILITY EASEMENTS SHOWN ON CONSTRUCTION DOCUMENTS ARE A GRAPHICAL REPRESENTATION ONLY, NOT NECESSARILY RECORDED EASEMENTS. SEE RECORDED DOCUMENTS FOR EXACT EASEMENT GEOMETRY.