

CITY OF ALBUQUERQUE

Planning Department
David Campbell, Director



Mayor Timothy M. Keller

June 28, 2018

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

RE: **Nuevo Atrisco
Central and Unser NW
Conceptual Grading and Drainage Plan
Plan Date: 6/18/18
Hydrology File: K10D058**

Dear Mr. Arfman:

PO Box 1293
Based on the submittal provided on 6/19/18 the above-referenced plan is approved for Preliminary/Final Plat.

Albuquerque
Prior to Building Permit (For Information):

NM 87103

www.cabq.gov

1. The Drainage Report will need to be stamped and signed by the Engineer; calculations will need to be re-verified with respect to the final site layout, especially the 80% impervious assumption.
2. The final constructed southern pond (Req'd Volume=5480cf) may be deferred to the Tract B development. But enough of the pond volume will need to be constructed to serve the first flush requirement for Tract A, as well as keep sediment from washing into the storm drain. A drainage covenant on Tract B will be required for the temporary pond (and the final pond, once built).
3. Remove all "Conceptual" markings.
4. Two [Private Facility Drainage Covenants](#) are required for the stormwater quality ponds (one for each tract). The original notarized forms, exhibit A's (legible on 8.5x11 paper), and recording fees (\$25 ea, payable to Bernalillo County) must be turned into DRC (4th, Plaza del Sol) for routing. Please contact Charlotte LaBadie (clabadie@cabq.gov, 924-3996) or Madeline Carruthers (mtafoya@cabq.gov, 924-3997) regarding the routing and recording process for covenants.
5. Subbasins will need to be delineated for each first flush pond and each pond sized for the area draining to it. Roof runoff needs to be routed to the ponds once the site layout is finalized.

CITY OF ALBUQUERQUE

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6. This project requires an ESC Plan, submitted to the Stormwater Quality Engineer (Curtis Cherne PE, ccherne@cabq.gov or 924-3420).
7. Additional comments may be provided at Building Permit, based on final site layout and level of detail shown on plans.
8. For Information. Hydrology and Transportation files are available online through the City's [GIS Viewer 2.0](#). Turn on the *Hydrology Polys* layer: *Operational Layers > Sites > Service Centers > Hydrology Polys*. Select the desired Hydrology Poly from the map and click *Link to Project Documents*.

Prior to Certificate of Occupancy (For Information):

9. Engineer's Certification, per the DPM Chapter 22.7: *Engineer's Certification Checklist For Non-Subdivision* is required.
10. The Private Facility Drainage Covenant must be recorded with Bernalillo County and a copy included with the drainage certification.

PO Box 1293

If you have any questions, please contact me at 924-3695 or dpeterson@cabq.gov.

Albuquerque

Sincerely,

NM 87103

Dana Peterson, P.E.
Senior Engineer, Planning Dept.
Development Review Services

www.cabq.gov



June 18, 2018

City of Albuquerque
Hydrology Dept.
Attn: Dana Peterson P.E.

**RE: NUEVO ATRISCO Conceptual Grading and Drainage Plan
Hydrology File: K10/D058**

Dear Mr. Peterson:

Attached with this letter is a copy of the revised Conceptual Grading and Drainage Plan for the above referenced project. Revisions are based on your numbered review comments dated April 20, 2018 as follows:

1. See attached Supplemental Information packet for compliance with the allowable discharge rate of 3.45 cfs/acre per the Huitt-Zollars 2017 report.
2. Proposed property lines shown. See Supplemental Information for language for cross-lot drainage, parking, access and storm drain easements and maintenance responsibilities.
3. See revised plan for update to first flush retention calculations.
4. Individual sub-basin and first flush retention pond sizes will be provided as part of the construction document submittal for Building Permit. All on-site landscape and perimeter areas will be utilized.
5. Flows along the northern access road will be directed north to Unser Blvd. to continue to the public storm drain system. Existing berms along the west property line and new waterblocks at the north entrance drives off of the access roadway will ensure that no off-site flow, including flow from the existing access road, will be conveyed into the property.
6. The proposed southern pond is shown as a placeholder for the future development of Tract B. Final design will be provided to ensure compliance with allowable discharge rates.
7. The grading plan is for information relating to the re-platting process.

Sincerely,
Isaacson & Arfman, PA

Bryan J. Bobrick

Bryan J. Bobrick
Project Manager

JUNE 19, 2018

Supplemental Drainage Calculations for

Nuevo Atrisco

Conceptual Grading and Drainage Plan Submittal

by



ISAACSON & ARFMAN, P.A.

Consulting Engineering Associates

Thomas O. Isaacson, PE(RET.) & LS(RET.)

Fred C. Arfman, PE

Åsa Nilsson-Weber, PE

Project Information

PROPERTY: THE SITE IS AN UNDEVELOPED COMMERCIAL PROPERTY LOCATED WITHIN C.O.A. VICINITY MAP K-10. THE SITE IS BOUND TO THE EAST BY UNSER BLVD, TO THE NORTH AND WEST BY DEVELOPED COMMERCIAL PROPERTY AND SARRACINO PI NW AND TO THE SOUTH BY CENTRAL AVE.

PROPOSED IMPROVEMENTS: THE PROPOSED IMPROVEMENTS INCLUDE FARMERS MARKET OPEN PAVILIONS, OFFICE SPACE, APARTMENTS 4 STORIES, RETAIL/RESTAURANTS, PARKING, AND LANDSCAPING.

LEGAL: A PORTION OF TRACT B1 WEST ROUTE 66 ADDITION II, CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO.

BENCHMARK: VERTICAL DATUM IS BASED UPON THE ALBUQUERQUE CONTROL SURVEY MONUMENT "9-K10", ELEVATION = 5117.72 FEET (NAVD 1988).

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

FLOOD HAZARD: PER BERNALILLO COUNTY FIRM MAP 35001C0328J, MAP (REVISION DATE NOVEMBER 4, 2016), THE SITE IS LOCATED WITHIN FLOODZONE 'X' DESIGNATED AS AREAS DETERMINED TO BE OUTSIDE 500-YEAR FLOODPLAIN. A PORTION OF THE ADJACENT STREET, CENTRAL AVENUE, IS ENCUMBERED BY ZONE AO (DEPTH 1').

DRAINAGE PLAN CONCEPT: PER THE UNSER BOULEVARD RECONSTRUCTION DRAINAGE REPORT (COA HYDROLOGY FILE K10/D057,) BY HUITT-ZOLLARS DATED APRIL 2017, THIS PROPERTY FALLS WITHIN DRAINAGE BASIN 13D.3. THE OVERALL BASIN IS SIZED AT 18 ACRES WITH A CALCULATED DISCHARGE OF 61 CFS (3.4 CFS/ACRE). NEW STORM DRAIN IMPROVEMENTS WILL BE CONSTRUCTED (CITY PROJECT NO. 4383.91) WHICH INCLUDES STORM DRAIN ACCESS TO THE EXISTING 48" STORM DRAIN PROVIDED FOR THIS BASIN (PASSING FLOW UNDER CENTRAL AVENUE).

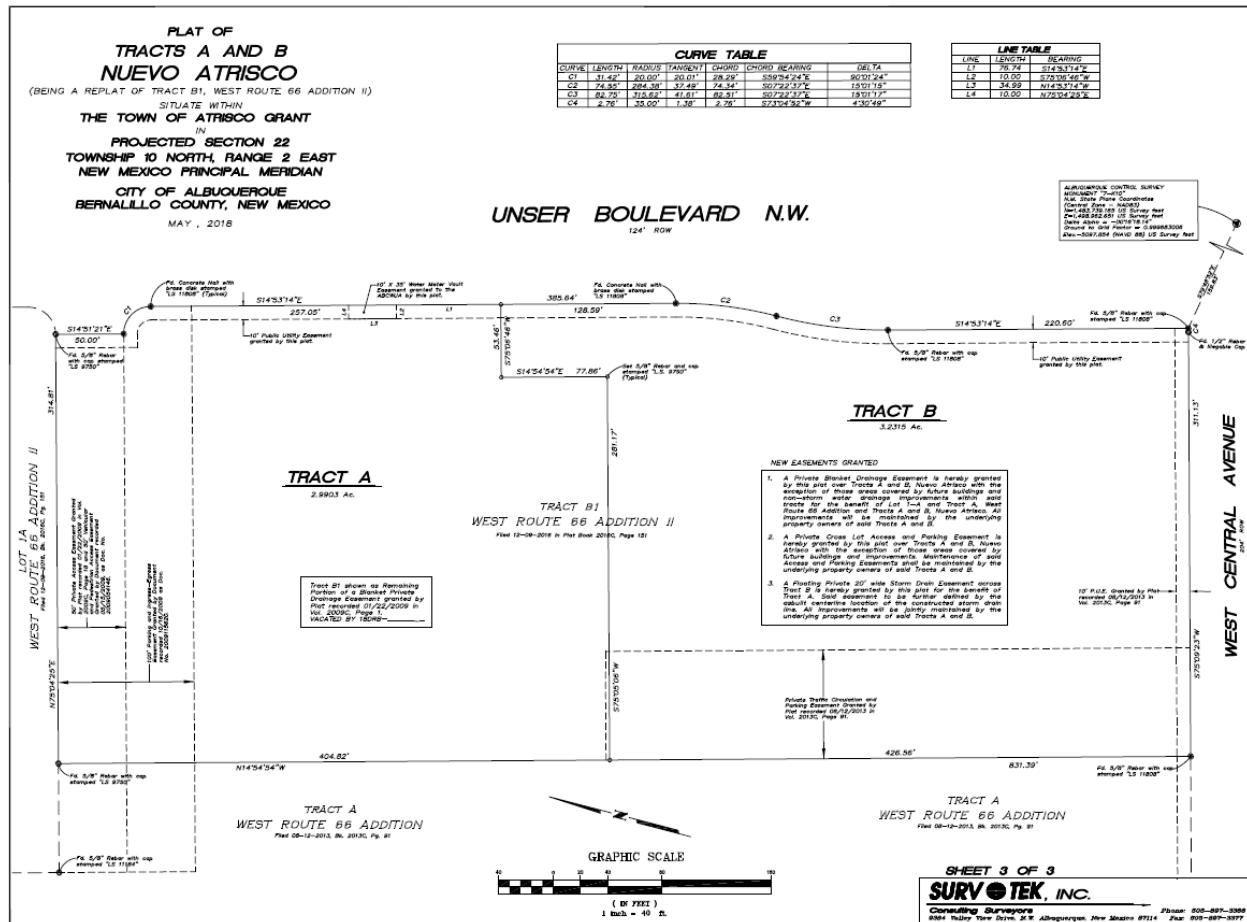


COA Hydrology and Transportation M

An aerial photograph of a commercial district. A large, irregular area is outlined in a thick green line. This outlined area contains several large, white, rectangular industrial or warehouse buildings, along with numerous parking lots filled with cars and trucks. The area is bordered by 'Unser Blvd' to the north and 'Central Ave' to the south, both labels in large green text. Surrounding the green-outlined area are various other commercial properties, some with large buildings and others with parking lots. Yellow lines on the map indicate property boundaries or lot lines, with many lots labeled with numbers such as 5104, 5106, 5108, 5110, 5112, 5114, 5102, 5098, 5096, 5100, and 5094. The overall scene is a typical commercial or industrial zone.



The existing property (West Route 66 Addition II, Tract B1) is 6.2218 acres and will be subdivided into two tracts. Tract A (north side @ 2.9903 ac. and Tract B (south side @ 3.2315 acres).



NEW EASEMENTS GRANTED

1. A Private Blanket Drainage Easement is hereby granted by this plat over Tracts A and B, Nuevo Atrisco with the exception of those areas covered by future buildings and non-storm water drainage improvements within said tracts for the benefit of Lot 1-A and Tract A, West Route 66 Addition and Tracts A and B, Nuevo Atrisco. All improvements will be maintained by the underlying property owners of said Tracts A and B.
2. A Private Cross Lot Access and Parking Easement is hereby granted by this plat over Tracts A and B, Nuevo Atrisco with the exception of those areas covered by future buildings and improvements. Maintenance of said Access and Parking Easements shall be maintained by the underlying property owners of said Tracts A and B.
3. A Floating Private 20' wide Storm Drain Easement across Tract B is hereby granted by this plat for the benefit of Tract A. Said easement to be further defined by the asbuilt centerline location of the constructed storm drain line. All improvements will be jointly maintained by the underlying property owners of said Tracts A and B.

Per the Unser Boulevard Reconstruction Drainage Report (COA Hydrology File K10/D057 dated April 2017) by Huitt-Zollars, West Route 66 Addition II, Tract B1 (Property) falls within Drainage Basin 13D.3 (17.613 acres) which has an allowable release rate of 60.77 cfs or 3.45 cfs / acre.

Tract A (2.9903 ac) + Tract B (3.2315 ac) total 6.2218 acres. At 3.45 cfs/acre, the Property is permitted to discharge:

$$3.45 * 6.2218 = 21.47 \text{ cfs.}$$

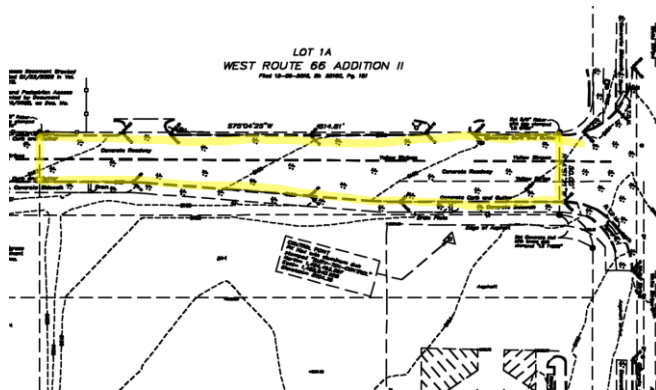
Using an assumed 80% impervious area, the Property will generate 24.8 cfs..

BASIN NO.	OVERALL	DESCRIPTION	Overall Property
Area of basin flows =	271022	SF	= 6.2 Ac.
The following calculations are based on Treatment areas as shown in table to the right			LAND TREATMENT
Sub-basin Weighted Excess Precipitation (see formula above)			A = 0%
Weighted E =			B = 10%
Sub-basin Volume of Runoff (see formula above)			C = 10%
V ₃₆₀ =			D = 80%
Sub-basin Peak Discharge Rate: (see formula above)			
Q _P =			24.8 cfs

The north end of the Property includes an existing paved Private Access Easement. This easement will continue to surface drain east to Unser Blvd.

The 10,970 sf area is 100% Impervious and generates 1.10 cfs. New water blocks at the north entrance drives will ensure this drainage does not enter the property.

BASIN NO.	E1	DESCRIPTION	Existing North Drive Draining to Unser Blvd.
Area of basin flows =	10970	SF	= 0.3 Ac.
The following calculations are based on Treatment areas as shown in table to the right			LAND TREATMENT
Sub-basin Weighted Excess Precipitation (see formula above)			A = 0%
Weighted E =			B = 0%
Sub-basin Volume of Runoff (see formula above)			C = 0%
V ₃₆₀ =			D = 100%
Sub-basin Peak Discharge Rate: (see formula above)			
Q _P =			1.10 cfs



The existing paved access discharging east to Unser Blvd.

Subtracting the 1.1 cfs draining to Unser Blvd. leaves 23.7 cfs remaining.

The remainder of the developed flow will be directed south to an existing 48" storm drain pipe connected to the Unser Blvd. trunk line specifically left open to collect existing and future developed flow from the Property: West Route 66 Addition II tract B1.

21.47 cfs (total allowable discharge) – 1.10 cfs (north access easement free discharging east to Unser Blvd.) reduces the allowable discharge draining to the south side storm drain system to 20.37 cfs.

The remainder of the fully developed Property draining south will generate 23.7 cfs.

BASIN NO.	South to SD	DESCRIPTION	Portion of Property Draining South to Public Storm Drain
Area of basin flows =	260052	SF	= 6.0 Ac.
The following calculations are based on Treatment areas as shown in table to the right		LAND TREATMENT	
Sub-basin Weighted Excess Precipitation (see formula above)		A = 0%	
Weighted E = 1.73 in.		B = 10.5%	
Sub-basin Volume of Runoff (see formula above)		C = 10.5%	
V ₃₆₀ = 37504 CF		D = 79.0%	
Sub-basin Peak Discharge Rate: (see formula above)			
Q _p = 23.7 cfs			

The allowable discharge is limited to 20.37 so the amount to detain =

23.7 cfs - 20.37 cfs = 3.33 cfs. Based on the inflow/outflow hydrograph below, a detention pond volume of 5480 cf will be required.

CALCULATIONS: Nuevo Atrisco : June 18, 2018 HYDROGRAPH FOR SMALL WATERSHED DPM SECTION 22-2 * PAGE A-13/14

Base time, t_B , for a small watershed hydrograph is,

$$t_B = (2.107 * E * A / Q_p) - (0.25 * A_D / A)$$

Where

E	=	1.73 inches
A	=	5.97 acres
A _D	=	4.72 acres
Q _p	=	23.7 cfs

t _B	=	0.72 hours
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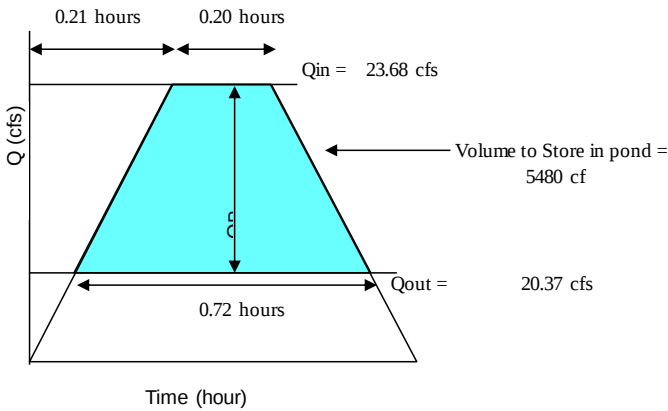
E is the excess precipitation in inches (from DPM TABLE A-8), Q_p is the peak flow, A_D is the area (acres) of treatment D, and A_T is the total area in acres. Using the time of concentration, t_C (hours), the time to peak in hours is:

$$t_p = (0.7 * t_C) + ((1.6 - (A_D / A)) / 12)$$

Where t_C = 0.20 hours

t_p = 0.21 hours

Continue the peak for $0.25 * A_D / A_T$ hours. When A_D is zero, the hydrograph will be triangular. When A_D is not zero, the hydrograph will be trapezoidal. see the graph below:



INFLOW / OUTFLOW HYDROGRAPH

Tract A will develop first. A temporary sediment reduction pond will be constructed on Tract B which will overflow to the public storm drain system.

Tract A (fully developed) = 11.9 cfs

BASIN NO.	TRACT A	DESCRIPTION	Tract A 100% Developed
Area of basin flows =	130257	SF	= 3.0 Ac.
The following calculations are based on Treatment areas as shown in table to the right			
Sub-basin Weighted Excess Precipitation (see formula above)			LAND TREATMENT
Weighted E = 1.74 in.			A = 0%
Sub-basin Volume of Runoff (see formula above)			B = 10%
V ₃₆₀ = 18909 CF			C = 10%
Sub-basin Peak Discharge Rate: (see formula above)			D = 80%
Q _p = 11.9 cfs			FIRST FLUSH VOL.
			2953 CF

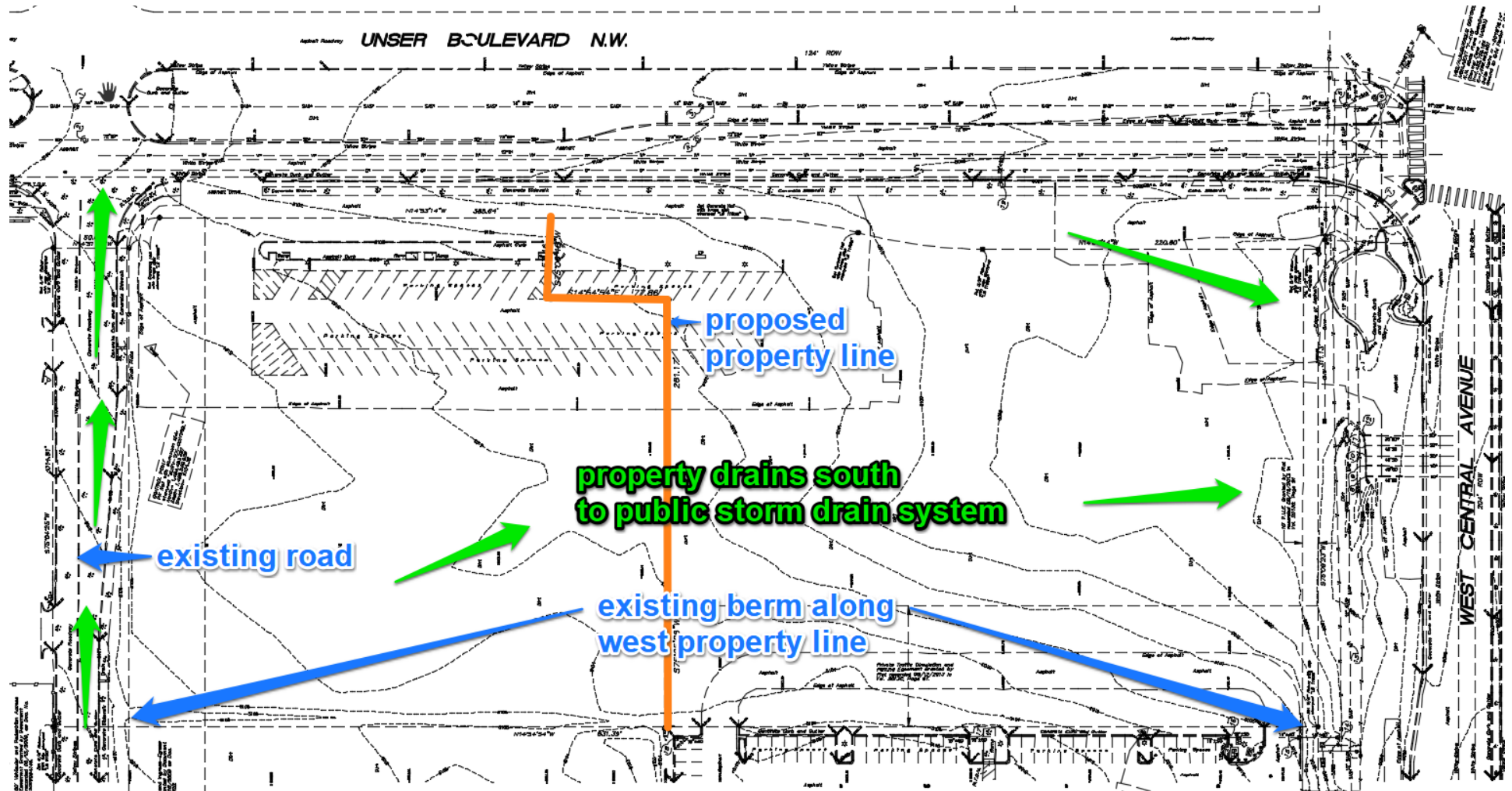
Tract B (10% Type B, 90% Type C) = 9.0 cfs

BASIN NO.	TRACT B	DESCRIPTION	Tract B Undeveloped
Area of basin flows =	140764	SF	= 3.2 Ac.
The following calculations are based on Treatment areas as shown in table to the right			LAND TREATMENT
Sub-basin Weighted Excess Precipitation (see formula above)			A = 0%
Weighted E =			B = 10%
Sub-basin Volume of Runoff (see formula above)			C = 90%
V ₃₆₀ =			D = 0%
Sub-basin Peak Discharge Rate: (see formula above)			
Q _p =			9.0 cfs

11.9 cfs + 9.0 cfs – 1.1 cfs (north access drive) = 19.8 cfs which is less than the allowable discharge of 20.37 to the south.

As Tract B develops, detention ponding and a formal outlet structure will be required to ensure the allowable discharge is not exceeded of 20.37 to the south public storm drain system is not exceeded.

The property is isolated from off-site flow other than to the existing private access easement along the north edge (





City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

Project Title: _____ **Building Permit #:** _____ **City Drainage #:** _____
DRB#: _____ **EPC#:** _____ **Work Order#:** _____
Legal Description: _____
City Address: _____

Engineering Firm: _____ **Contact:** _____
Address: _____
Phone#: _____ **Fax#:** _____ **E-mail:** _____
bryanb@iacivil.com

Owner: _____ **Contact:** _____
Address: _____
Phone#: _____ **Fax#:** _____ **E-mail:** _____

Architect: _____ **Contact:** _____
Address: _____
Phone#: _____ **Fax#:** _____ **E-mail:** _____

Other Contact: _____ **Contact:** _____
Address: _____
Phone#: _____ **Fax#:** _____ **E-mail:** _____

Check all that Apply:

DEPARTMENT:

☒ HYDROLOGY/ DRAINAGE
☐ TRAFFIC/ TRANSPORTATION
☐ MS4/ EROSION & SEDIMENT CONTROL

TYPE OF SUBMITTAL:

☒ ENGINEER ARCHITECT CERTIFICATION
☒ CONCEPTUAL G & D PLAN
☐ GRADING PLAN
☐ DRAINAGE MASTER PLAN
☐ DRAINAGE REPORT
☐ CLOMR/LOMR
☐ TRAFFIC CIRCULATION LAYOUT (TCL)
☐ TRAFFIC IMPACT STUDY (TIS)
☐ EROSION & SEDIMENT CONTROL PLAN (ESC)
☐ OTHER (SPECIFY) _____

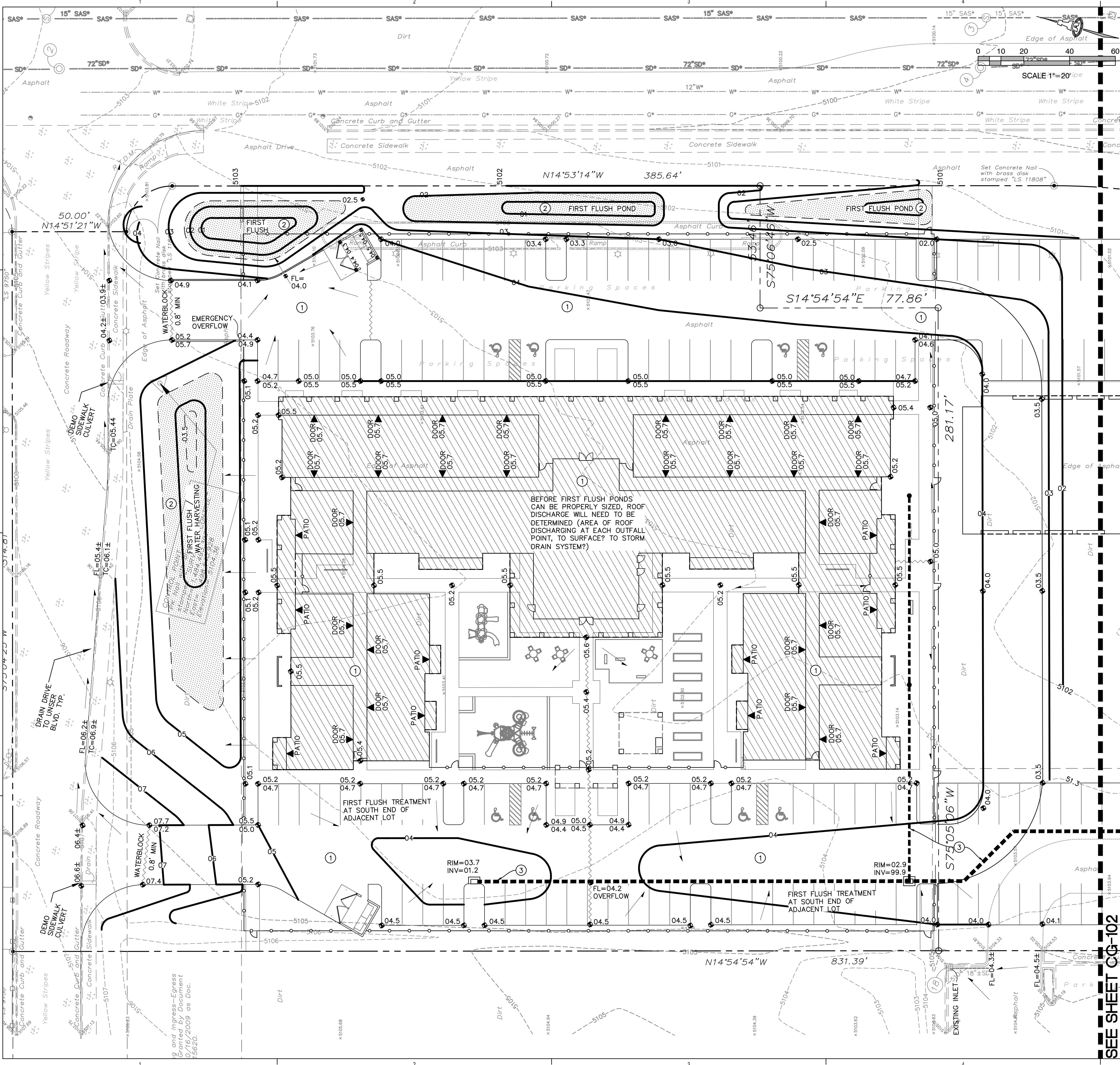
IS THIS A RESUBMITTAL?: ☒ Yes ☐ No

CHECK 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
☐ PRE-DESIGN MEETING
☒ OTHER (SPECIFY) Final Plat Approval

DATE SUBMITTED: June 19, 2018 By: Fred C. Arfman

COA STAFF: _____ ELECTRONIC SUBMITTAL RECEIVED: _____



VICINITY MAP

PROJECT DATA

PROPERTY: THE SITE IS AN UNDEVELOPED COMMERCIAL PROPERTY LOCATED WITHIN C.O.A. VICINITY MAP K-10. THE SITE IS BOUND TO THE EAST BY UNSER BLVD. TO THE NORTH AND WEST BY DEVELOPED COMMERCIAL PROPERTY AND SARRACINO PI NW AND TO THE SOUTH BY CENTRAL AVE.

PROPOSED IMPROVEMENTS: THE PROPOSED IMPROVEMENTS INCLUDE FARMERS MARKET OPEN PAVILIONS, OFFICE SPACE, APARTMENTS 4 STORIES, RETAIL/RESTAURANTS, PARKING, AND LANDSCAPING.

LEGAL: A PORTION OF TRACT B1 WEST ROUTE 66 ADDITION II, CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO.

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

FLOOD HAZARD: PER BERNALILLO COUNTY FIRM MAP 35001C0328J, MAP (REVISION DATE NOVEMBER 4, 2016), THE SITE IS LOCATED WITHIN FLOODZONE "X" DESIGNATED AS AREAS DETERMINED TO BE OUTSIDE 500-YEAR FLOODPLAIN. A PORTION OF THE ADJACENT STREET, CENTRAL AVENUE, IS ENCUMBERED BY ZONE AO (DEPTH 1').

DRAINAGE PLAN CONCEPT: PER THE UNSER BOULEVARD RECONSTRUCTION DRAINAGE REPORT (COA HYDROLOGY FILE K10/D057), BY HUITT-ZOLLARS DATED APRIL 2017, THIS PROPERTY FALLS WITHIN DRAINAGE BASIN 130.3. THE OVERALL BASIN IS SIZED AT 18 ACRES WITH A CALCULATED DISCHARGE OF 61 CFS (3.4 CFS/ACRE). NEW STORM DRAIN IMPROVEMENTS WILL BE CONSTRUCTED (CITY PROJECT NO. 4383.91) WHICH INCLUDES STORM DRAIN ACCESS TO THE EXISTING 48" STORM DRAIN PROVIDED FOR THIS BASIN (PASSING FLOW UNDER CENTRAL AVENUE).

ENGINEER: FRED C. ARFMAN: NMPE 7322
ISAACSON & ARFMAN, PA
128 MONROE NE 87108
505-268-8828

SURVEYOR: RUSS P. HUGG: NMPS NO. 9750
SURV-TEK, INC
9384 VALLEY VIEW DRIVE, NW 87114
505-897-3366

KEYED NOTES

SEE SHEET CG-102 FOR KEYED NOTES REFERENCED ON THIS PLAN

LEGEND

- 5105.65' EXISTING SPOT ELEVATION
- 5110 - EXISTING CONTOUR
- 12 - PROPOSED CONTOUR (1' INCREMENT)
- 10 - PROPOSED CONTOUR (0.5' INCREMENT)
- 08.9 PROPOSED SPOT ELEVATION
- FLOW ARROW
- PROPOSED FIRST FLUSH RETENTION POND

ISAACSON & ARFMAN, P.A.
Consulting Engineering Associates
128 Monroe Street N.E.
Albuquerque, New Mexico 87108
Ph. 505-268-8828 www.iacivil.com

ARCHITECTURE / DESIGN / INSPIRATION

DEKKER
PERICH
SABATINI

7601 JEFFERSON NE, SUITE 100
ALBUQUERQUE, NM 87109

505.761.9700 / DPSDESIGN.ORG

ARCHITECT

ENGINEER

NOT FOR CONSTRUCTION

PROJECT

NUEVO ATRISCO
CENTRAL & UNSER
ALBUQUERQUE, NM

REVISIONS

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△	
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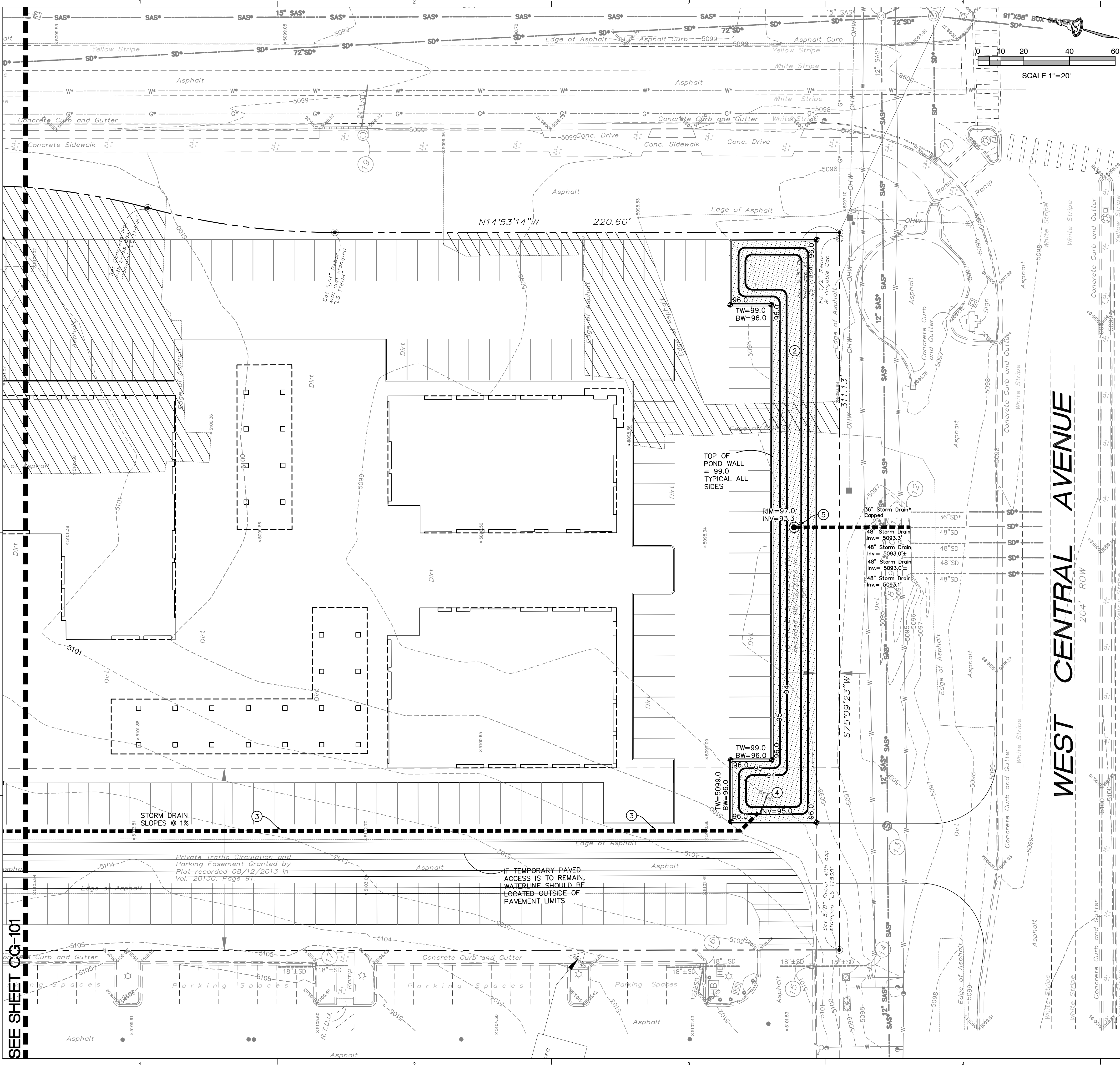
DRAWN BY	BJB
REVIEWED BY	FCA
DATE	6/18/2018
PROJECT NO.	17-0153
DRAWING NAME	

CONCEPTUAL
GRADING AND
DRAINAGE PLAN
1 OF 2

SHEET NO.

CG-101

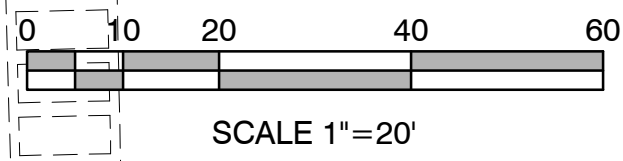
OF



SEE SHEET CG-101

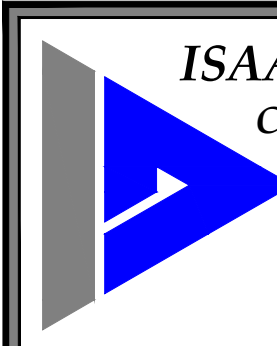
KEYED NOTES

1. ALL IMPERVIOUS AREA WILL BE DIRECTED THROUGH FIRST FLUSH RETENTION PONDS BEFORE DISCHARGING TO THE PUBLIC STORM DRAIN SYSTEM.
2. PROPOSED FIRST FLUSH RETENTION POND.
3. PROPOSED PRIVATE STORM DRAIN SYSTEM.
4. DISCHARGE TO FIRST FLUSH RETENTION.
5. 48" STORM DRAIN PIPE WITH STANDPIPE TO BE CONSTRUCTED AS PART OF UNSER BOULEVARD RECONSTRUCTION PROJECT (CITY PROJECT NUMBER 4383.91).



LEGEND

- 5105.65' EXISTING SPOT ELEVATION
- 5110 — EXISTING CONTOUR
- 12 — PROPOSED CONTOUR (1' INCREMENT)
- 08.9 PROPOSED SPOT ELEVATION
- FLOW ARROW
- [Hatched Box] PROPOSED FIRST FLUSH RETENTION POND



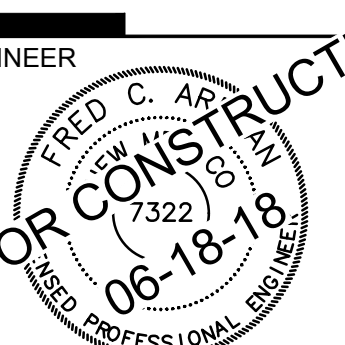
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Albuquerque, New Mexico 87108
Ph. 505-268-8828 www.iacivil.com

ARCHITECTURE / DESIGN / INSPIRATION

**DEKKER
PERICH
SABATINI**

7601 JEFFERSON NE, SUITE 100
ALBUQUERQUE, NM 87109
505.761.9700 / DPSDESIGN.ORG
ARCHITECT

ENGINEER



NOT FOR CONSTRUCTION

PROJECT

**NUEVO ATRISCO
CENTRAL & UNSER
ALBUQUERQUE, NM**

REVISIONS	
△	
△	
△	
△	

DRAWN BY	BJB
REVIEWED BY	FCA
DATE	6/18/2018
PROJECT NO.	17-0153
DRAWING NAME	

CONCEPTUAL
GRADING AND
DRAINAGE PLAN
2 OF 2

SHEET NO.
CG-102
OF

[illegible]

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

Q_{pA}	=	1.29	Q_{pC}	=	2.87
Q_{pB}	=	2.03	Q_{pD}	=	4.37
Developed Q_p				=	24.8 CFS

FFL RETENTION PONDS WILL BE CONSTRUCTED WITHIN EACH SITE. FINAL LOCATIONS AND DESIGN WILL BE PROVIDED AS PART OF BUILDING PERMIT CONSTRUCTION DOCUMENTS. HATCHED AREAS ARE SHOWN TO INDICATE POSSIBLE POND LOCATIONS. A PRIVATE FACILITY DRAINAGE COVENANT WILL BE PROVIDED FOR THE FIRST FLUSH PONDS.

POND P4		
Contour	Area	Volume
5100.50	815	
5100.00	750	391 CF
TOTAL VOL.		391 CF

NUEVO ATRISCO
CENTRAL & UNSER
ALBUQUERQUE, NM

OF



ISAACSON & ARFMAN, P.A.
Consulting Engineering Associates
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 Albuquerque, New Mexico 87108
 Ph. 505-268-8828 www.iacivil.com