

# CITY OF ALBUQUERQUE



Richard J. Berry, Mayor

May 8, 2017

Mike Balaskovits  
Bohannon Huston, Inc.  
7500 Jefferson St NE  
Albuquerque, NM 87109

RE: **Andalucia Phase 2 – 6500 Coors NW**  
**Grading Plan**  
**Engineer's Stamp Date 5/3/17**  
**Hydrology File: E12D015D**

Dear Mr. Balaskovits:

Based upon the information provided in the submittal received on 5/5/17 the above-referenced Grading Plan is not approved for Building Permit. The below items must be addressed prior to approval:

1. This project will require an ESC Plan to be submitted to the storm water quality engineer, Curtis Cherne, PE, prior to Building Permit Approval. The Phase 1 ESC Plan is not applicable for Phase 2 as it uses Phase 2's project area as staging grounds.
2. The restaurants/retailers need to be labeled as such. The dumpsters for the restaurants need to be contained, drained through a grease trap, and into the sanitary sewer.

As Phase 2 discharges to the drainage system constructed in Phase 1, the following condition for Certificate of Occupancy (CO) will apply:

1. An approved CO for Phase 1, which includes the downstream receiving storm drain and pond for Phase 2, will be required prior to or concurrent to issuing a CO for Phase 2.

If you have any questions, please contact me at 924-3695 or [dpeterson@cabq.gov](mailto:dpeterson@cabq.gov).

Sincerely,

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

Courtyard I  
7500 Jefferson St. NE  
Albuquerque, NM  
87109-4335  
**www.bhinc.com**  
voice: 505.823.1000  
facsimile: 505.798.7988  
toll free: 800.877.5332

## CLIENT/COURIER TRANSMITTAL

To: Hydrology Section  
City of Albuquerque  
600 2<sup>nd</sup> St. NW  
Albuquerque, NM 87102

Requested by: Mike Balaskovits

Date: May 5, 2017

Time Due: ☒ This A.M.  
☐ This P.M.  
☐ Rush \_\_\_\_\_  
☐ By Tomorrow

Phone: 924-3999

Job No.: 20160229

Job Name: Andalucia Phase 2

### DELIVERY VIA

☒ Courier ☐ Federal Express  
☐ Mail ☐ UPS  
☐ Other

### PICK UP

Item: \_\_\_\_\_

<u>ITEM NO.</u>	<u>QUANTITY</u>	<u>DESCRIPTION</u>
1	1	Drainage Info Sheet
2	1	Comment Response Letter
3	1	Grading & Drainage Plan
4	1	Drainage Management Plan

### COMMENTS / INSTRUCTIONS

REC'D BY: \_\_\_\_\_ DATE: \_\_\_\_\_ TIME: \_\_\_\_\_



May 5, 2017

Hydrology Section  
City of Albuquerque  
Planning Department  
600 2<sup>nd</sup> Street NW  
Albuquerque, NM 87103

Re: Andalucia Phase 2/ Hydrology File E12D015D

To Whom It May Concern:

Enclosed for your review and comment is a submittal of the Andalucia Phase 2. Please see the responses to the comments dated 08/31/16 below:

1. The bottom of the pond will need to be lowered to 74.50 to allow for 0.5 ft of freeboard. The inlet grate elevations will need to be lowered (80.85), as well as the corresponding inverts.  
*Response: This is being addressed prior to the Certificate of Occupancy release.*
2. Inlet at north side of pond-lower the inlet grate elevation to match the other inlets.  
*Response: This is being addressed prior to the Certificate of Occupancy release.*
3. Provide curb openings along median on private road on the north side of site.  
*Response: This is being addressed prior to the Certificate of Occupancy release.*

We are requesting Hydrology Approval in support of Building Permit approval specific to Phase 2. Please see attached the submittal package for Andalucia Phase 1 for information only in regards to this approval request. Please feel free to contact me at 823-1000 with questions or comments.

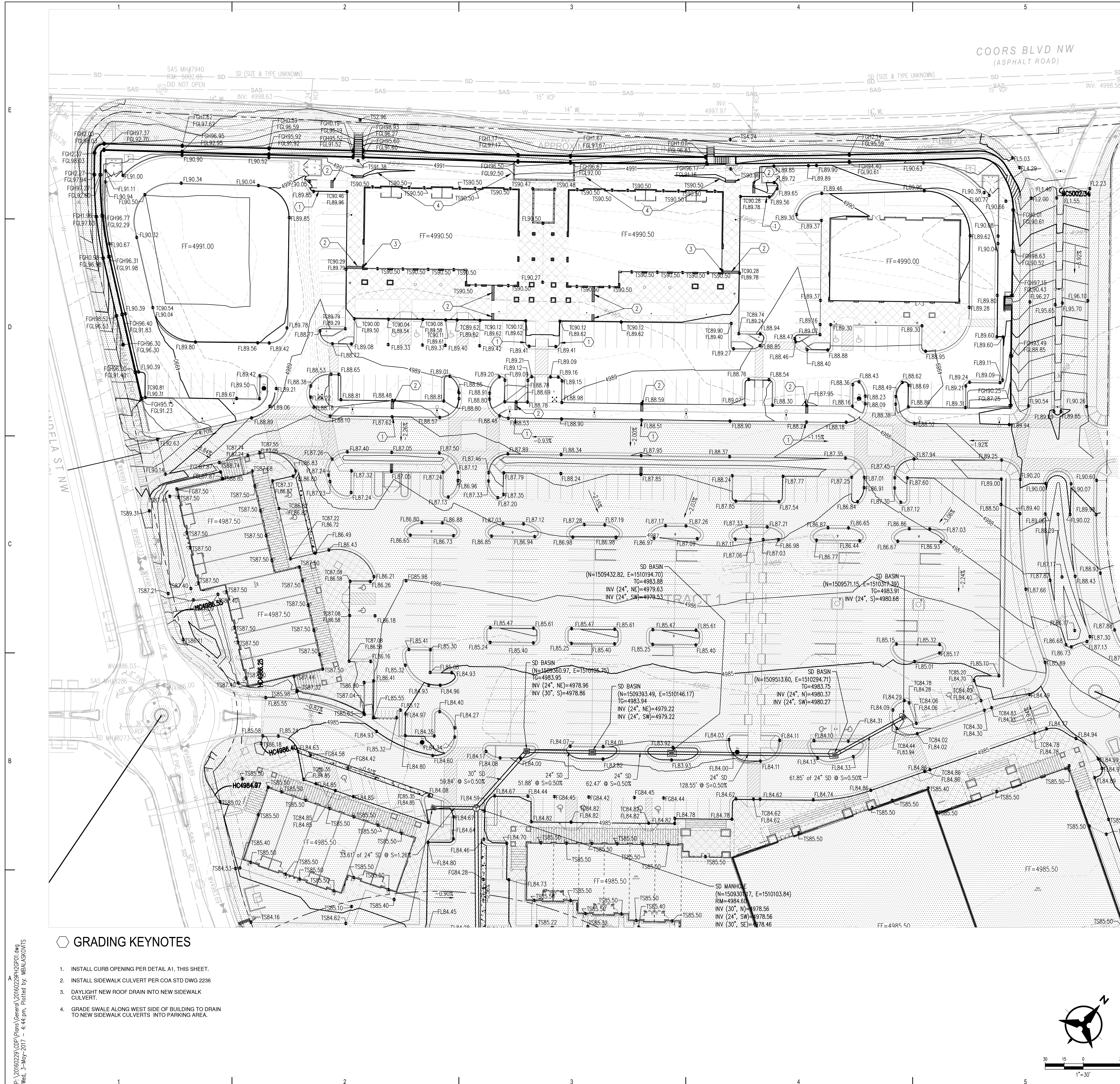
Sincerely,



Mike Balaskovits, PE  
Vice President  
Community Development and Planning

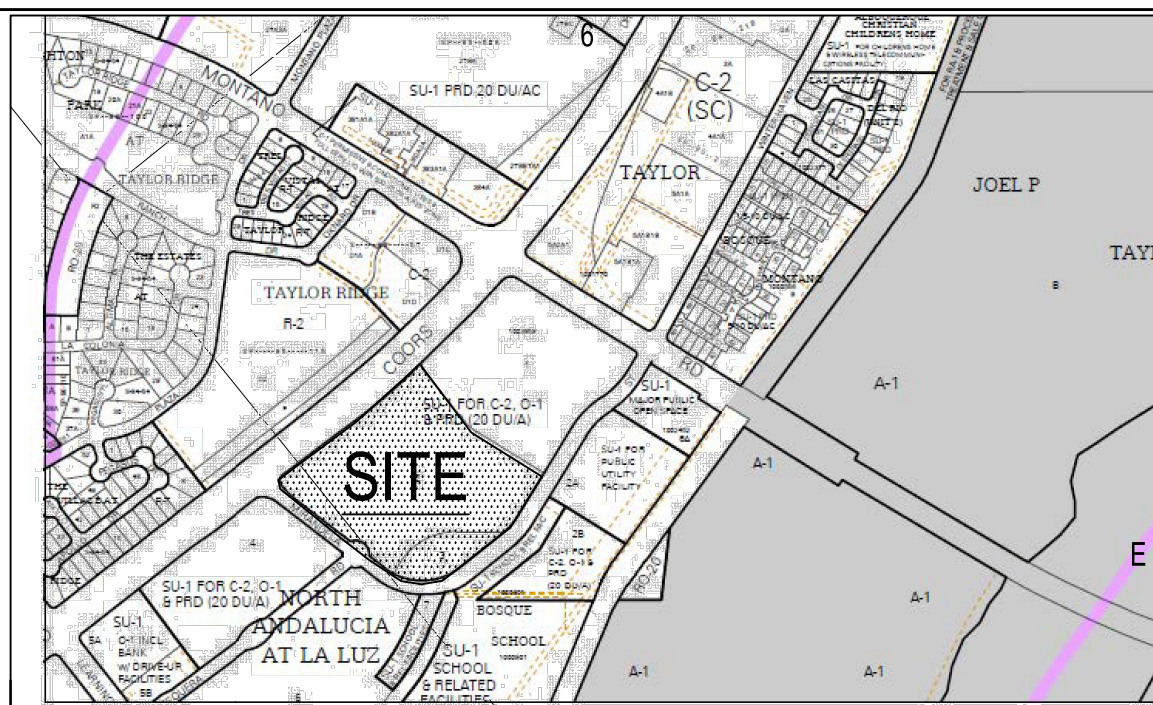
MJB/egn  
Enclosures





## GRADING KEYNOTES

1. INSTALL CURB OPENING PER DETAIL A1, THIS SHEET.
2. INSTALL SIDEWALK CULVERT PER COA STD DWG 2236
3. DAYLIGHT NEW ROOF DRAIN INTO NEW SIDEWALK CULVERT.
4. GRADE SWALE ALONG WEST SIDE OF BUILDING TO DRAIN TO NEW SIDEWALK CULVERTS INTO PARKING AREA.



VICINITY MAP ZONE MAP E-12

## GENERAL NOTES

1. ALL WORK DETAILED ON THESE PLANS AND PERFORMED UNDER THIS CONTRACT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND THE PROJECT GEOTECHNICAL REPORT. WHERE APPLICABLE, CITY OF ALBUQUERQUE PUBLIC WORKS STANDARDS SHALL APPLY.
2. THE CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS, RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS, INCLUDING EPA REQUIREMENTS WITH RESPECT TO STORM WATER DISCHARGE.
3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL OBSTRUCTIONS INCLUDING ALL UNDERGROUND UTILITIES. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION OBSERVER OR ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
4. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT LINE LOCATING SERVICE FOR LOCATION OF EXISTING UTILITIES.
5. ALL ELECTRICAL, TELEPHONE, CABLE TV, GAS AND OTHER UTILITY LINES, CABLES, AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION, SHALL BE COORDINATED WITH THAT UTILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENTS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCES CAUSED BY UTILITY COMPANY WORK CREWS. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE HIS ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK.
6. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE AND APPROVED BY THE CONSTRUCTION OBSERVER.
7. CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
8. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES. THE CONTRACTOR SHALL NOT STORE ANY EQUIPMENT OR MATERIAL WITHIN THE PUBLIC RIGHT-OF-WAY.
9. THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FOR THE PROJECT PRIOR TO COMMENCING CONSTRUCTION (I.E. BARRICADING, TOPSOIL DISTURBANCE, EXCAVATION PERMITS, EPA STORM WATER PERMITS, ETC.).
10. ALL PROPERTY CORNERS DESTROYED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ALL PROPERTY CORNERS MUST BE RESET BY A REGISTERED LAND SURVEYOR.
11. THE CONTRACTOR SHALL PREPARE A CONSTRUCTION TRAFFIC CONTROL AND SIGNING PLAN AND OBTAIN APPROVAL OF SUCH PLAN FROM THE CITY OF ALBUQUERQUE, TRAFFIC ENGINEERING DEPARTMENT, PRIOR TO BEGINNING ANY CONSTRUCTION WORK ON OR ADJACENT TO EXISTING STREETS.
12. ALL BARRICADES AND CONSTRUCTION SIGNING SHALL CONFORM TO APPLICABLE SECTIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), US DEPARTMENT OF TRANSPORTATION, LATEST EDITION.
13. THE CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION BARRICADES AND SIGNING AT ALL TIMES. THE CONTRACTOR SHALL VERIFY THE PROPER LOCATION OF ALL BARRICADING AT THE END AND BEGINNING OF EACH DAY.
14. THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO CONFORM WITH EPA REQUIREMENTS, INCLUDING COMPLIANCE WITH NPDES PHASE 2 REQUIREMENTS.

## GRADING NOTES

1. EXCEPT AS PROVIDED HEREIN, GRADING SHALL BE PERFORMED AT THE ELEVATIONS AND IN ACCORDANCE WITH THE DETAILS SHOWN ON THIS PLAN.
2. THE COST FOR REQUIRED CONSTRUCTION DUST AND EROSION CONTROL MEASURES SHALL BE INCIDENTAL TO THE PROJECT COST.
3. ALL WORK RELATIVE TO FOUNDATION CONSTRUCTION, SITE PREPARATION, AND PAVEMENT INSTALLATION, AS SHOWN ON THIS PLAN, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "GEOTECHNICAL INVESTIGATION". ALL OTHER WORK SHALL, UNLESS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT, (FIRST PRIORITY) SPECIFICATIONS, AND/OR THE CITY OF ALBUQUERQUE (COA) STANDARD SPECIFICATIONS FOR PUBLIC WORKS (SECOND PRIORITY).
4. EARTH SLOPES SHALL NOT EXCEED 3 HORIZONTAL TO 1 VERTICAL UNLESS SHOWN OTHERWISE.
5. IT IS THE INTENT OF THESE PLANS THAT THIS CONTRACTOR SHALL NOT PERFORM ANY WORK OUTSIDE OF THE PROPERTY BOUNDARIES EXCEPT AS REQUIRED BY THIS PLAN.
6. THE CONTRACTOR IS TO ENSURE THAT NO SOIL ERODES FROM THE SITE ONTO ADJACENT PROPERTY OR PUBLIC RIGHT-OF-WAY.
7. A DISPOSAL SITE FOR ANY & ALL EXCESS EXCAVATION MATERIAL, AND UNSUITABLE MATERIAL AND/OR A BORROW SITE CONTAINING ACCEPTABLE FILL MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE OBSERVER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL OR BORROW SITE AND HAUL TO OR FROM SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.
8. PAVING AND ROADWAY GRADES SHALL BE  $\pm 0.1'$  FROM PLAN ELEVATIONS. PAD ELEVATION SHALL BE  $\pm 0.05'$  FROM BUILDING PLAN ELEVATION.
9. ALL PROPOSED CONTOURS REFLECT TOP OF PAVEMENT ELEVATIONS IN THE PARKING AREA AND MUST BE ADJUSTED FOR MEDIANS AND ISLANDS.
10. VERIFY ALL ELEVATIONS SHOWN ON PLAN FROM BASIS OF ELEVATION CONTROL STATION PRIOR TO BEGINNING CONSTRUCTION.



STUDIO SOUTHWEST ARCHITECTS, INC.  
2101 Mountain Rd. NW, Albuquerque, NM 87104  
505.843.9639 Fax 505.843.9683  
Web Site: [www.studioswarch.com](http://www.studioswarch.com)  
Email: [mail@studioswarch.com](mailto:mail@studioswarch.com)

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## CONSULTANTS

Engineer



## Andalucia - Building Shells E, F, G and Site Work - Phase II

6500 Coors Boulevard NW  
Albuquerque, NM 87120

## Key Plan

NTS

No	Date	Description
Revision Schedule		
ISSUE:	CON DOCS	
PROJECT NUMBER:	1535	
FILE:		
DRAWN BY:	MTN	
CHECKED BY:	RB	
DATE:	MAY 01, 2017	

## SHEET TITLE

## GRADING AND DRAINAGE PLAN

# C-100





### CURRENT ONSITE BASINS

PIPE #	INLET/SD/BASIN	Size in.	Slope	Capacity* cfs	ACTUAL FLOW cfs
SD1	IN1, SD2	30	1.00%	41.02	39.45
SD2	SD3, SD7	30	1.00%	41.02	38.14
SD3	IN2, SD4	30	0.67%	33.57	26.68
SD4	IN3, SD5	24	0.50%	16.00	21.87
SD5	IN4, SD6	24	0.50%	16.00	14.99
SD6	IN5	24	0.50%	16.00	12.72
SD7	IN6	24	0.50%	16.00	11.46
SD8	SD9, SD10	6	1.50%	0.69	0.68
SD9	TRENCH DRAIN	6	1.50%	0.69	0.15
SD10	TRENCH DRAIN	6	1.50%	0.69	0.53

Capacity Based on Manning's Eq w/ N=0.013

PIPE #	INLET/SD/BASIN	Size in.	Slope	Capacity* cfs	ACTUAL FLOW cfs
SD1	IN1, SD2	30	1.00%	41.02	39.45
SD2	SD3, SD7	30	1.00%	41.02	38.14
SD3	IN2, SD4	30	0.67%	33.57	26.68
SD4	IN3, SD5	24	0.50%	16.00	21.87
SD5	IN4, SD6	24	0.50%	16.00	14.99
SD6	IN5	24	0.50%	16.00	12.72
SD7	IN6	24	0.50%	16.00	11.46
SD8	SD9, SD10	6	1.50%	0.69	0.68
SD9	TRENCH DRAIN	6	1.50%	0.69	0.15
SD10	TRENCH DRAIN	6	1.50%	0.69	0.53

Capacity Based on Manning's Eq w/ N=0.013

Inlet	Inlet Type <sup>2</sup>	Basin	Capacity <sup>3</sup>	
			Actual (cfs)	Head (ft)
IN-1	1 - SGL COA TYPE C	A1-8	1.31	0.25
IN-2	1 - 30" NYLOPAST (DOME GRATE)	A1-2	4.81	0.75
IN-3	1 - 30" NYLOPAST (DOME GRATE)	A1-3	6.88	0.75
IN-4	1 - 30" NYLOPAST (DOME GRATE)	A1-4	2.06	0.25
IN-5	1 - 30" NYLOPAST (DOME GRATE)	A1-5	12.72	0.75
IN-6	1 - SGL COA TYPE C	A1-1	11.48	0.25
IN-G <sup>3</sup>	1 - DBL COA TYPE D	OUTFALL TO SD	22.55	0.65
IN-J <sup>3</sup>	1 - SGL COA TYPE D	OUTFALL TO SD	11.56	0.65
IN-L <sup>3</sup>	1 - DBL COA TYPE D	OUTFALL TO SD	21.32	0.65

Inlet	Inlet Type <sup>2</sup>	Basin	Capacity <sup>3</sup>	
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IN-1	1 - SGL COA TYPE C	A1-8	1.31	0.25
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IN-J <sup>3</sup>	1 - SGL COA TYPE D	OUTFALL TO SD	11.56	0.65
IN-L <sup>3</sup>	1 - DBL COA TYPE D	OUTFALL TO SD	21.32	0.65

1. NYLOPLAST INLETS BASED ON MANUFACTURER NOMOGRAPHS  
2. INLETS PLACED IN SUMP CONDITION AND CAPACITIES BASED ON LESSER OF ORIFICE AND WIER EQUATIONS  
3. ACTUAL FLOW FOR THESE INLETS IS BASED ON NORTH ANDALUCIA DRAINAGE MASTER PLAN (CPN-H09/D017B)



SITE INTRODUCTION:  
ANDALUCIA PHASE TWO IS LOCATED NEAR THE SOUTHEAST CORNER OF COORS BOULEVARD AND MONTANO ROAD (5600 COORS BOULEVARD NW 87120). THE SITE IS CURRENTLY UNDEVELOPED, BUT WAS CONTAINED IN A PREVIOUS NORTH ANDALUCIA DRAINAGE MASTER PLAN (CITY OF ALBUQUERQUE DRAINAGE FILE #100178). ACCORDING TO THE AFOREMENTIONED DRAINAGE MASTER PLAN, OUR SITE IS WITHIN BASIN A-1. DUE TO OUR SITE ACCOUNTING FOR APPROXIMATELY 56% OF BASIN A-1, OUR SITE WAS ANALYZED AS A SEPARATE BASIN. THE PROPOSED DEVELOPMENT WILL ADHERE TO THE REQUIREMENTS DESCRIBED IN THE NORTH ANDALUCIA DRAINAGE MASTER PLAN.

THE SITE IS LOCATED PARTIALLY WITHIN A FEMA DESIGNATED FLOOD ZONE X, WHICH MEANS THAT THE SITE IS EITHER SUBJECT TO THE 500 YEAR FLOODPLAIN, LOCATED WITHIN AN AREA OF 1.0% CHANCE OF ANNUAL FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT, OR IS LOCATED IN AN AREA PROTECTED BY LEVEES FROM THE 1.0% ANNUAL CHANCE OF FLOOD.

THE SITE IS LOCATED IN THE CITY OF ALBUQUERQUE, THEREFORE, THE DEVELOPMENT PROCESS MANUAL SECTION 22.2 WAS USED TO ANALYZE THE SITE'S PROPOSED DRAINAGE. PRECIPITATION ZONE 1 WAS USED DUE TO THE SITE LYING WEST OF THE RIO GRANDE, PER SECTION 22.2. THE ONSITE STORM DRAINS WERE SIZED BASED OFF OF MANNING'S EQUATION. THE ONSITE INLETS WERE SIZED WITH THE INLETS IN SUMP CONDITION (UNLESS OTHERWISE SPECIFIED) AND USING MANUFACTURER PROVIDED NOMOGRAMS.

THE CONSTRUCTION OF PHASE TWO OF ANDALUCIA WILL CONSIST OF SEVERAL RETAIL/RESTAURANT BUILDINGS, ASSOCIATED PARKING, AND LANDSCAPING WILL ADHERE TO THE DRAINAGE MANAGEMENT PLAN SUBMITTED FOR ANDALUCIA PHASE 1 (COA DRAINAGE # E12D015D) AND CONTRIBUTE TO THE ONSITE DRAINAGE BASINS ESTABLISHED WITH THAT DMP. THE PHASE 1 PLAN CONSIDERED DEVELOPED CONDITIONS FOR THIS AREA AND THIS SUBMITTAL ADHERES TO THAT APPROVED PLAN.

THE DEVELOPED FLOWS WILL DRAIN THROUGH THE SITE VIA SURFACE FLOW TO ULTIMATELY ENTER THE PROPOSED INLETS IN ANDALUCIA PHASE 1. THE POND CONSTRUCTED WITH PHASE 1 IS SIZED TO MEET THE DESIGN INTENT OF THE DEVELOPMENT AS NOTED IN THE "NORTH ANDALUCIA DRAINAGE MASTER PLAN". DUE TO THE DOWNSTREAM DRAINAGE CONSTRAINTS NOTED WITHIN THIS PLAN, THE SITE REQUIRES ONSITE RETENTION. THIS RETENTION EXCEEDS THE FIRST FLUSH REQUIREMENTS RESULTING IN THE TREATMENT OF THE DEVELOPED FLOWS TO ADHERE TO THE MS4 REQUIREMENTS.

GIVEN THE ABOVE INFORMATION, WE ARE REQUESTING CITY  
HYDROLOGY APPROVAL IN SUPPORT BUILDING PERMIT APPROVAL  
FOR ANDALUCIA PHASE 2.

STUDIO SOUTHWEST ARCHITECTS, INC.  
2101 Mountain Rd. NW, Albuquerque, NM 87104  
505.843.9639 Fax 505.843.9683  
Web Site: [www.studioswarch.com](http://www.studioswarch.com)  
Email: [mail@studioswarch.com](mailto:mail@studioswarch.com)

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GE l. OR S	
TQ D 1	

Engineer

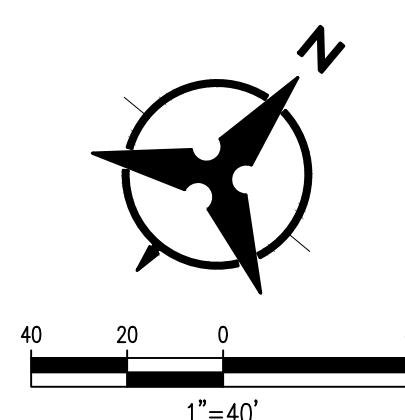


6500 Coors Boulevard NW  
Albuquerque, NM 87120

## NTS

No	Date	Description
Revision Schedule		
ISSUE:	CON DOCS	
PROJECT NUMBER:	1535	
FILE:		
DRAWN BY:	MTN	
CHECKED BY:	RB	
DATE:	MAY 01, 2017	

C-001



**Bohannon**  **Huston**  
www.bhinc.com 800.877.5332





# City of Albuquerque

Planning Department

Development & Building Services Division

## DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

**Project Title:** Andalucia Phase 1 **Building Permit #:** \_\_\_\_\_ **City Drainage #:** \_\_\_\_\_  
**DRB#:** \_\_\_\_\_ **EPC#:** \_\_\_\_\_ **Work Order#:** \_\_\_\_\_  
**Legal Description:** 5600 Coors Blvd  
**City Address:** 101 Broadway Blvd. NE

**Engineering Firm:** Bohannon Huston, Inc **Contact:** Mike Balaskovits or Matt Satches  
**Address:** 7500 Jefferson St. NE 87109  
**Phone#:** 505-823-1000 **Fax#:** 505-798-7988 **E-mail:** mbalaskovits@bhinc.com

**Owner:** \_\_\_\_\_ **Contact:** \_\_\_\_\_  
**Address:** \_\_\_\_\_  
**Phone#:** \_\_\_\_\_ **Fax#:** \_\_\_\_\_ **E-mail:** \_\_\_\_\_

**Architect:** Studio Southwest Architects, Inc. **Contact:** Ron Burstein, AIA, CCS  
**Address:** 2101 Mountain Rd. NW Albuquerque, NM 87104  
**Phone#:** 505-843-9639 **Fax#:** 505-992-0585 **E-mail:** rburstein@studioswarch.com

**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) Drainage Management Plan

IS THIS A RESUBMITTAL?: ☐ Yes ☒ No

### CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

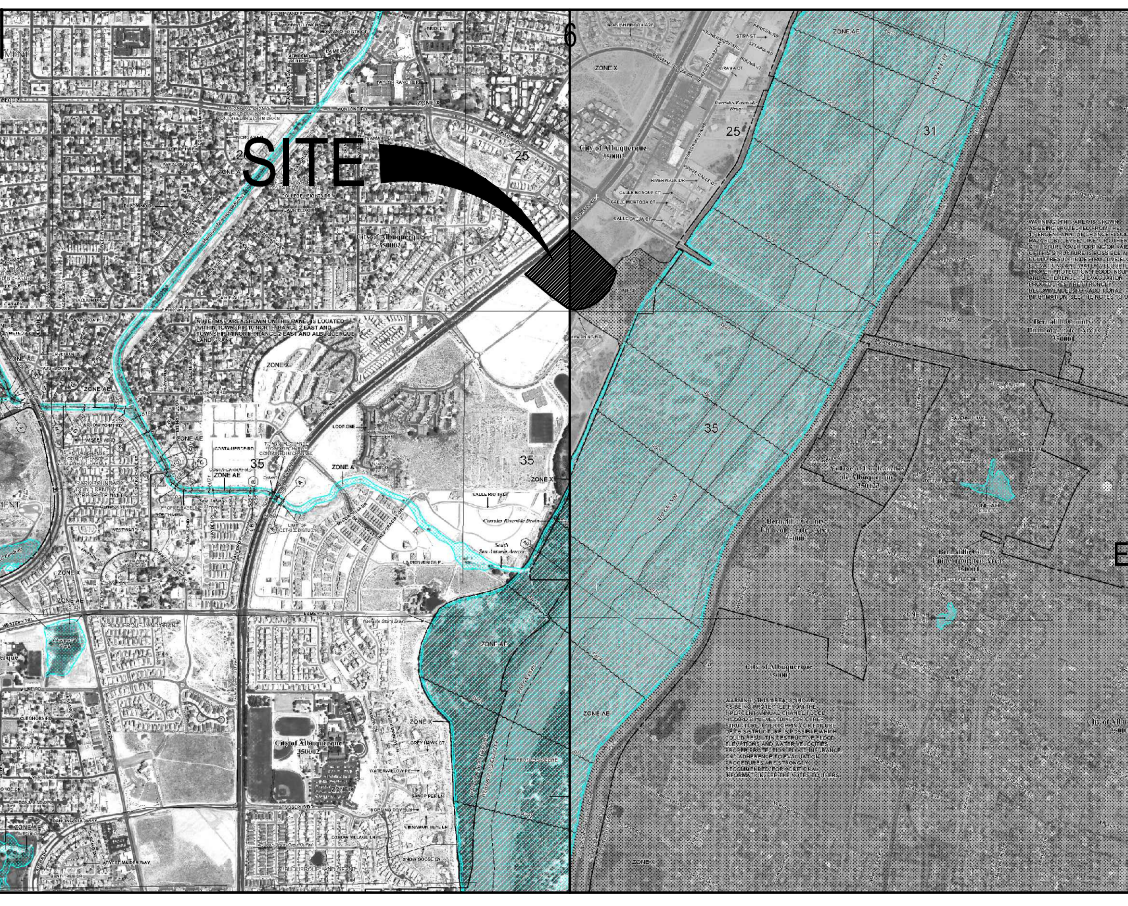
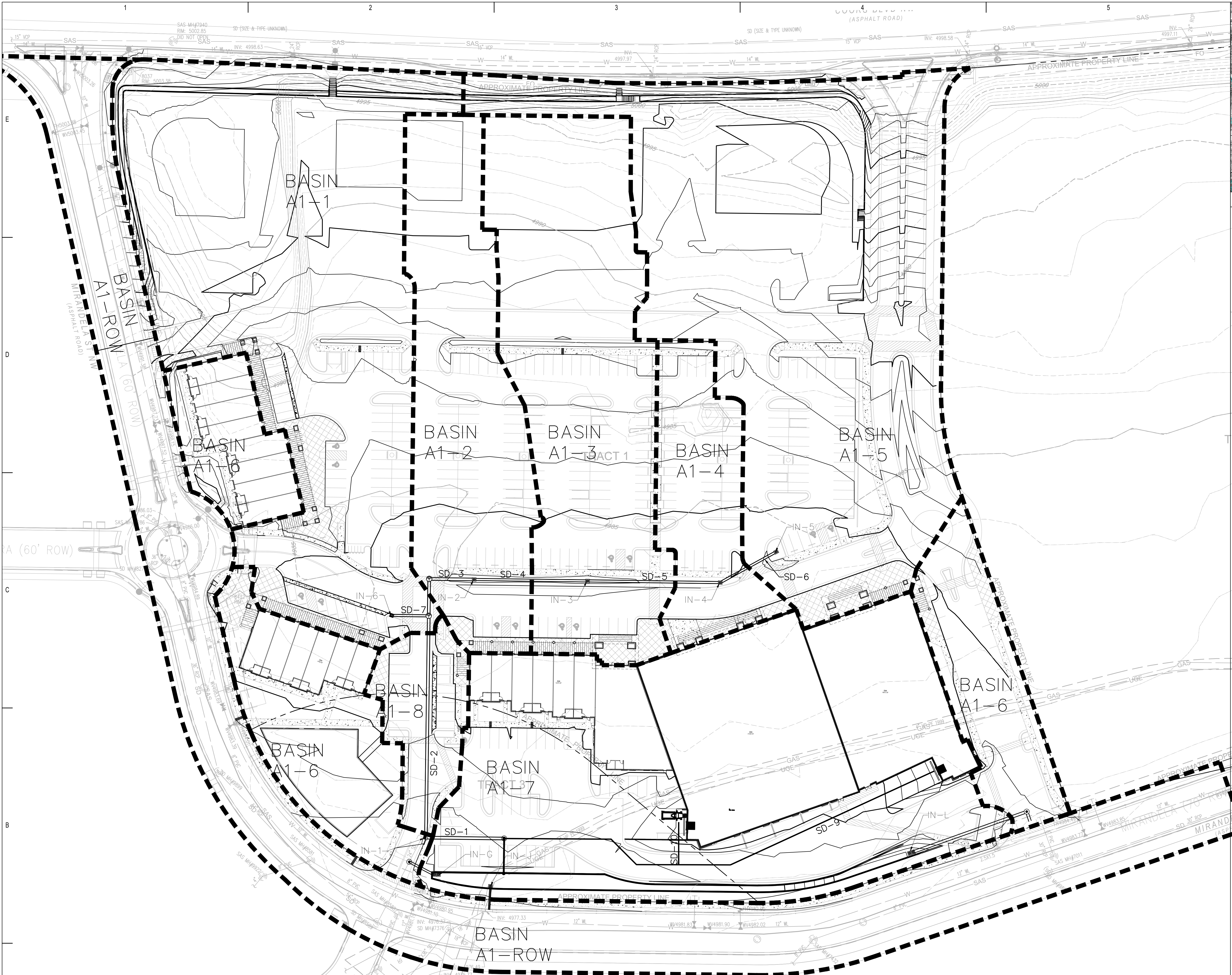
☒ BUILDING PERMIT APPROVAL  
☐ CERTIFICATE OF OCCUPANCY  
☐ PRELIMINARY PLAT APPROVAL  
☐ SITE PLAN FOR SUB'D APPROVAL  
☐ SITE PLAN FOR BLDG. PERMIT APPROVAL  
☐ FINAL PLAT APPROVAL  
☐ SIA/ RELEASE OF FINANCIAL GUARANTEE  
☐ FOUNDATION PERMIT APPROVAL  
☒ GRADING PERMIT APPROVAL  
☒ SO-19 APPROVAL  
☒ PAVING PERMIT APPROVAL  
☐ GRADING/ PAD CERTIFICATION  
☐ WORK ORDER APPROVAL  
☐ CLOMR/LOMR  
☐ PRE-DESIGN MEETING  
☐ OTHER (SPECIFY) \_\_\_\_\_

**DATE SUBMITTED:** 8-31-2016 **By:** Michael Balaskovits, PE

COA STAFF: \_\_\_\_\_ ELECTRONIC SUBMITTAL RECEIVED: \_\_\_\_\_

FOR INFORMATION ONLY





STUDIO  
SW  
ARCHITECTS

STUDIO SOUTHWEST ARCHITECTS, INC.  
2101 Mountain Rd. NW, Albuquerque, NM 87104  
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Reserved. For exceptions refer to the Owner-Architect Agreement.

FEMA FIRM MAPS: 35001C0118G & 35001C0114H

## DRAINAGE NARRATIVE

**SITE INTRODUCTION:**  
ANDALUCIA PHASE ONE IS LOCATED NEAR THE SOUTHEAST CORNER OF COORS BOULEVARD AND MONTANO ROAD (5600 COORS BOULEVARD NW 87120). THE SITE IS CURRENTLY UNDEVELOPED, BUT WAS CONTAINED IN PART OF THE NORTH ANDALUCIA DRAINAGE MASTER PLAN (CITY OF ALBUQUERQUE DRAINAGE FILE H09-D017B). ACCORDING TO THE AFOREMENTIONED DRAINAGE MASTER PLAN, OUR SITE IS WITHIN BASIN A-1. DUE TO OUR SITE ACCOUNTING FOR APPROXIMATELY 56% OF BASIN A-1, OUR SITE WAS ANALYZED AS SUCH. THE PROPOSED DEVELOPMENT WILL ADHERE TO THE REQUIREMENTS DESCRIBED IN THE NORTH ANDALUCIA DRAINAGE MASTER PLAN.

THE SITE IS LOCATED PARTIALLY WITHIN A FEMA DESIGNATED FLOOD ZONE X. THIS MEANS THAT THE SITE IS EITHER SUBJECT TO THE 500 YEAR FLOODPLAIN, LOCATED WITHIN AN AREA OF 1.0% CHANCE OF ANNUAL FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT, OR IS LOCATED IN AN AREA PROTECTED BY LEVEES FROM THE 1.0% ANNUAL CHANCE OF FLOOD.

**METHODOLOGY:**  
THE SITE IS LOCATED IN THE CITY OF ALBUQUERQUE, THEREFORE, THE DEVELOPMENT PROCESS MANUAL SECTION 22.2 WAS USED TO ANALYZE THE SITE'S PROPOSED DRAINAGE. PRECIPITATION ZONE 1 WAS USED DUE TO THE SITE LYING WEST OF THE RIO GRANDE. PER SECTION 22.2, THE ONSITE STORM DRAINS WERE SIZED BASED OFF OF MANNING'S EQUATION. THE ONSITE INLETS WERE SIZED WITH THE INLETS IN SUMP CONDITION (UNLESS OTHERWISE SPECIFIED) AND USING MANUFACTURER PROVIDED NOMOGRAPHS.

**PROPOSED CONDITIONS:**  
THE CONSTRUCTION OF PHASE ONE OF ANDALUCIA WILL CONSIST OF SEVERAL LARGE RETAIL BUILDINGS, ASSOCIATED PARKING, AND LANDSCAPING. EXISTING INFRASTRUCTURE INSTALLED WITH THE NORTH ANDALUCIA MASTER PLAN WILL BE UTILIZED. RUNOFF GENERATED BY THE DEVELOPMENT WILL RETAIN THE VOLUME DESCRIBED IN THE NORTH ANDALUCIA DRAINAGE MASTER PLAN AND DISCHARGE INTO THREE SEPRETEALY CONTROLLED DISCHARGE POINTS BEFORE ULTIMATELY OUTFALLING INTO A SERIES OF PONDS DOWNSTREAM OF THE SITE CONSTRUCTED TO PREVENT FLOODING TO THE BOSQUE SCHOOL. DETAILED AND FURTHER EXPLAINED IN THE "NORTH ANDALUCIA DRAINAGE MASTER PLAN".

BASED ON THE PROPOSED GRADING, THE SITE WILL BE DIVIDED INTO 8 ONSITE DRAINAGE BASINS. THE PROPOSED ONSITE BASINS ARE ALLOWED DISCHARGE TO THE EXISTING DRAINAGE SYSTEM IN THREE SPERATE CONNECTIONS. THESE CONNECTIONS ARE NOTED AS IN-G, IN-J AND IN-L AND WILL BE CONTROLLED BASED ON THE HEAD ABOVE THE INLETS. THE ALLOWABLE Q'S ARE BASED ON THE "NORTH ANDALUCIA DRAINAGE MASTER PLAN" AND CAN BE FOUND ON SHEET C-001 STORM DRAIN PIPE TABLE AS PIPE #S G, J AND L. PRIOR TO DISCHARGE INTO THE PUBLIC STORM DRAIN SYSTEM, THE SITE MUST RETAIN A PORTION OF THE VOLUME DESCRIBED IN THE NORTH ANDALUCIA DRAINAGE MASTER PLAN. BASIN A-1 (OF THE AFOREMENTIONED DRAINAGE MASTER PLAN) REQUIRES 1.02 AC-FT TO BE RETAINED ONSITE. DUE TO OUR SITE BEING APPROXIMATELY 56% OF THE TOTAL BASIN (INCLUDING BASIN A-1 ROW), THE SITE WILL RETAINING APPROXIMATELY 0.60 AC-FT.

DISCHARGE FOR ALL OF THE ONSITE BASINS WAS DETERMINED USING THE LAND TREATMENTS DESCRIBED IN THE DEVELOPMENT PROCESS MANUAL SECTION 22.2. DUE TO THE CONSTRUCTION OF THE SITE BEING PERFORMED IN PHASES, ALL ONSITE BASIN FLOWS WERE DETERMINED BASED ON ULTIMATE DEVELOPED CONDITIONS. BASINS A-1, A-1-2, A-1-3, A-1-4, A-1-5, A-1-7, AND A-1-8 FLOW FROM WEST TO EAST THROUGH THE SITES ASSOCIATED PARKING LOTS AND LANDSCAPING BEFORE ENTERING THE ONSITE STORM DRAIN SYSTEM. THE SITES LANDSCAPED AREAS WILL BE DEPRESSED TO ALLOW FOR WATER HARVESTING WHICH HELPS IN THE TOTAL REQUIRED RETENTION NECESSARY FOR THE SITE. THE ONSITE STORM DRAIN SYSTEM THEN OUTFALLS INTO A LARGER RETENTION POND ALONG THE EASTERN PORTION OF THE SITE. ONCE THE POND FILLS UP TO 81.35 INLETS HAVE BEEN STRATEGICALLY PLACED TO ACCEPT THE REMAINING RUNOFF BASED ON THE ALLOWABLE DISCHARGES ASSOCIATED WITH THE SITE (SEE INLET TABLE). BASIN A-1-6 IS A COMBINATION OF SEVERAL BASINS THROUGHOUT THE SITE THAT DISCHARGE DIRECTLY INTO THE RIGHT WHICH ULTIMATELY DRAIN TO THE LARGER RETENTION FACILITY ASSOCIATED DESCRIBED WITHIN THE NORTH ANDALUCIA MASTER DRAINAGE PLAN.

PEAK DISCHARGE FROM THE SITE IS APPROXIMATELY 57.7 CFS. THE TOTAL ONSITE RETENTION VOLUME IS APPROXIMATELY 0.67 AC-FT. THIS IS GREATER THAN THE REQUIRED 0.60 AC-FT DESCRIBED IN THE MASTER DRAINAGE REPORT. THE VOLUME PROVIDED IS ALSO GREATER THAN THE 0.35 AC-FT REQUIRED TO MEET THE CITY OF ALBUQUERQUE FIRST FLUSH REQUIREMENT.

GIVEN THE ABOVE INFORMATION, WE ARE REQUESTING CITY HYDROLOGY BUILDING PERMIT APPROVAL.

ANDALUCIA PHASE 1										
Proposed Developed Conditions Basin Data Table										
This table is based on the DPM Section 22.2, Zone: 1										
Basin ID	Area (SQ. FT)	Area (AC.)	Land Treatment Percentages				Q(100yr) (cfs/ac.)	Q(100yr) (CFS)	V(100yr) (inches)	FIRST FLUSH (CF)
A	B	C	D							
CURRENT ONSITE BASINS										
A1-ROW	117650	2.70	0.0%	0.0%	20.0%	80.0%	4.07	10.99	1.77	17393
A1-1	117871	2.71	0.0%	0.0%	9.0%	91.0%	4.24	11.46	1.88	18484
A1-2	49153	1.13	0.0%	0.0%	7.0%	93.0%	4.27	4.81	1.90	7788
A1-3	70525	1.62	0.0%	0.0%	8.0%	92.0%	4.25	6.88	1.89	11117
A1-4	23377	0.54	0.0%	0.0%	10.0%	90.0%	4.22	2.26	1.87	3647
A1-5	131338	3.02	0.0%	0.0%	10.0%	90.0%	4.22	12.72	1.87	20489
A1-6	65638	1.51	0.0%	0.0%	11.0%	89.0%	4.21	6.34	1.86	10186
A1-7	123643	2.84	0.0%	0.0%	12.0%	88.0%	4.19	11.89	1.85	19086
A1-8	13250	0.30	0.0%	0.0%	5.0%	95.0%	4.30	1.31	1.92	2121
TOTAL	712445	16.36	-	-	-	-	68.67	-	110311	134501

STORM DRAIN PIPE TABLE						
PIPE #	INLET/SD/BASIN	Size in.	Slope	Capacity* cfs	ACTUAL FLOW cfs	
SD1	IN1, SD2	30	1.00%	41.02	39.45	
SD2	SD3, SD7	30	1.00%	41.02	38.14	
SD3	IN2, SD4	30	0.67%	33.57	26.68	
SD4	IN3, SD5	24	0.50%	16.00	21.87	
SD5	IN4, SD6	24	0.50%	16.00	14.99	
SD6	IN5	24	0.50%	16.00	12.72	
SD7	IN6	24	0.50%	16.00	11.46	
SD8	SD9, SD10	6	1.50%	0.69	0.68	
SD9	TRENCH DRAIN	6	1.50%	0.69	0.15	
SD10	TRENCH DRAIN	6	1.50%	0.69	0.53	
Capacity Based on Manning's Eq w/ N=0.013						

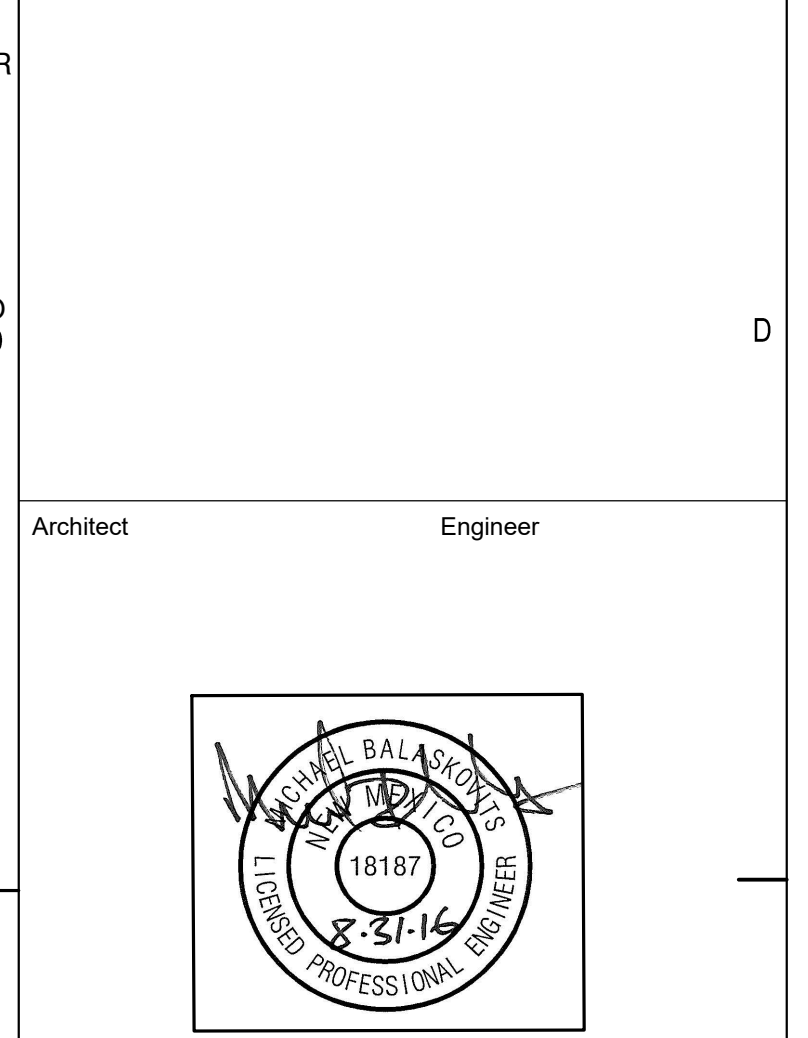
INLET TABLE					
Inlet #	Inlet Type <sup>2</sup>	Basin	Actual Flow (cfs)	Avail Head (ft)	Capacity <sup>3</sup> (cfs)
IN-1	1 - SGL COA TYPE C	A1-8	1.31	0.25	9.25
IN-2	1 - 30" NYLOPAST (DOME GRATE)	A1-2	4.81	0.75	11.70
IN-3	1 - 30" NYLOPAST (DOME GRATE)	A1-3	6.88	0.75	11.70
IN-4	1 - 30" NYLOPAST (DOME GRATE)	A1-4	2.26	0.75	11.70
IN-5	1 - 30" NYLOPAST (DOME GRATE)	A1-5	12.72	0.75	11.70
IN-6	1 - SGL COA TYPE C	A1-1	11.46	0.25	9.25
IN-G <sup>3</sup>	1 - DBL COA TYPE D	OUTFALL TO SD	22.55	0.65	23.55
IN-J <sup>3</sup>	1 - SGL COA TYPE D	OUTFALL TO SD	11.56	0.65	11.80
IN-L <sup>3</sup>	1 - DBL COA TYPE D	OUTFALL TO SD	21.32	0.65	23.55
1. NYLOPAST INLETS BASED ON MANUFACTURER NOMOGRAPHS					
2. INLETS PLACED IN SUMP CONDITION AND CAPACITIES BASED ON LESSER OF ORIFICE AND WER EQUATIONS					
3. ACTUAL FLOW FOR THESE INLETS IS BASED ON NORTH ANDALUCIA DRAINAGE MASTER PLAN (CPN-H09/D017B)					

Bohannon & Huston  
www.bhinc.com 800.877.5332

C-001

## CONSULTANTS

Architect Engineer



## Andalucia Phase 1

5600 Coors Boulevard NW  
Albuquerque, NM 87120

## Key Plan

NTS

No	Date	Description
Revision Schedule		
ISSUE:	CON DOCS	
PROJECT NUMBER:	1535	
FILE:	0000A-621.RVT	
DRAWN BY:		
CHECKED BY:		
DATE:	AUGUST 1, 2016	

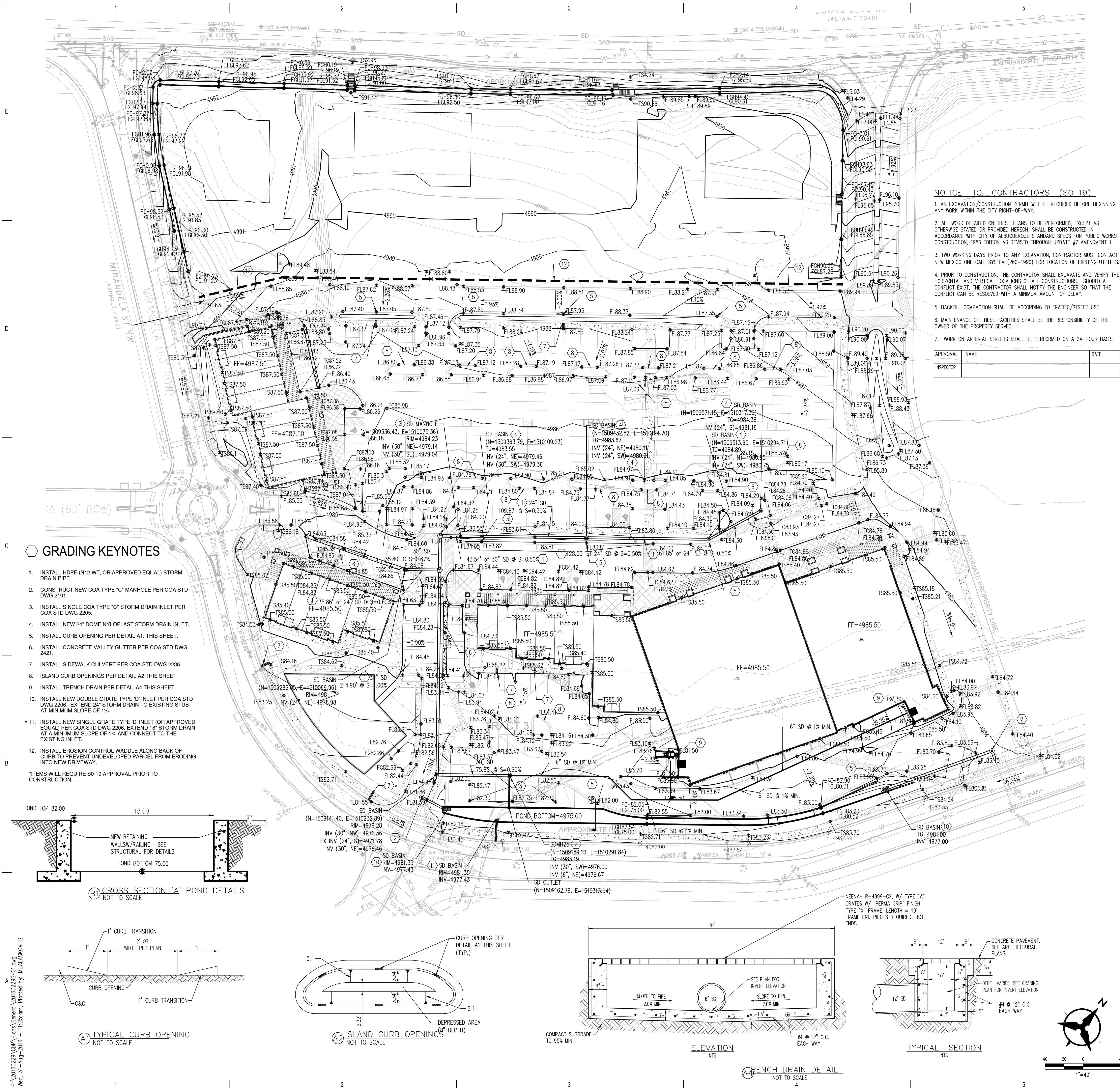
## SHEET TITLE

PROPOSED DRAINAGE  
MANAGEMENT PLAN

E:\2016\02\03\CD\Plans\General\20160228\B001.dwg  
Wed, 31-Aug-2016 11:22am, Plotted by: MBALAS\GNTS

FOR INFORMATION ONLY









# City of Albuquerque

## Planning Department

### Stormwater Control Permit for Erosion and Sediment Control

Project Title Andalucia Phase I

Project Location (Major Cross Streets/Arroyo or address)

5600 Coors Blvd. NE, Albuquerque NM 87120

Property Owner: (or authorized agent provided in writing)

eNOI Number: NMR 12 BL 27

**Attach 2012 Construction General Permit eNOI Detail sheet.**

Property Owner: Silver Leaf Ventures, LLC

Site Contact Name Jason Daskalos

Site Contact Phone 505-883-7333

Site Contact e-mail jason@daskalosdi.com

Applicant: Print Name Jason Daskalos Date 8/22/16

(Grant Morrison, Inspections Plus Inc)

\$5000

**For City personnel use only:**

F12 D0150

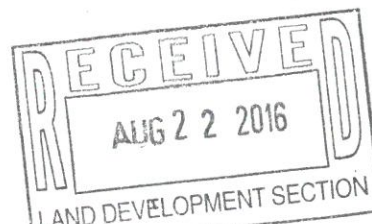
Check boxes if plans/permit are approved:

☒ ESC Plan ☒ Grading Plan ☒ ~~Flood Plain Permit (strike if not required)~~

The Project is approved for grading (enter date): 8-31-16

City Personnel Printed Name: Rita Harmon

(Rev January 2016)



FOR INFORMATION ONLY



# CITY OF ALBUQUERQUE

PLANNING DEPARTMENT – Development Review Services



August 31, 2016

Michael Balaskovits, PE  
**BOHANNAN-HUSTON, INC.**  
7500 Jefferson Street NE Courtyard I  
Albuquerque, NM 87109

Richard J. Berry, Mayor

RE: **Andalucia Phase I – 6500 Coors NW**  
**Grading Management Plan and Grading and Drainage Plan**  
**Engineer's Stamp Date 8-31-2016 (File: E12D015D)**

Dear Mr. Balaskovits:

Based upon the information provided in your submittal received 8-31-16, the above referenced plans are approved for ESC Permit (Grading Permit and Paving Permit), Building Permit, and SO-19 Permit with the following conditions:

- The bottom of the pond will need to be lowered to 74.50 to allow for 0.5 ft of freeboard. The inlet grate elevations will need to be lowered (80.85), as well as the corresponding inverts.
- Inlet at north side of pond-lower the inlet grate elevation to match the other inlets
- Provide curb openings along median on private road on north side of site

Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology. Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

A separate SO-19 permit is required for construction within City ROW. A copy of this approval letter must be on hand when applying for the excavation/barricading permit. The work in the City ROW must be inspected and accepted. Contractor must contact Jason Rodriguez at 235-8016 and Construction Coordination at 924-3416 to schedule an inspection.

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

Sincerely,

Rita Harmon, P.E.  
Senior Engineer, Planning Dept.  
Development Review Services

Orig: Drainage file  
c.pdf: via Email: Recipient, Jason Rodriguez

E12D015D\_BP\_SO-19\_Appr.doc

1 of 1

Albuquerque - Making History 1706-2006

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