

Current DRC
Project Number: _____

FIGURE 12

Date Submitted: 3-2-16

Date Site Plan Approved: _____

Date Preliminary Plat Approved: 3-2-16

Date Preliminary Plat Expires: 3-2-17

DRB Project No.: 1010520

DRB Application No.: _____

INFRASTRUCTURE LIST

(Rev. 9-05)

EXHIBIT "A"

**TO SUBDIVISION IMPROVEMENTS AGREEMENT
DEVELOPMENT REVIEW BOARD (D.R.B.) REQUIRED INFRASTRUCTURE LIST**

Sol Vita Subdivision

PROPOSED NAME OF PLAT AND/OR SITE DEVELOPMENT PLAN

Fire Station #19 Block 5 Unit 3 Tract 2 of North Albuquerque Acres

EXISTING LEGAL DESCRIPTION PRIOR TO PLATTING ACTION

ORIGINAL

Following is a summary of PUBLIC/PRIVATE Infrastructure required to be constructed or financially guaranteed for the above development. This Listing is not necessarily a complete listing. During the SIA process and/or in the review of the construction drawings, if the DRC Chair determines that appurtenant items and/or unforeseen items have not been included in the infrastructure listing, the DRC Chair may include those items in the listing and related financial guarantee. Likewise, if the DRC Chair determines that appurtenant or non-essential items can be deleted from the listing, those items may be deleted as well as the related portions of the financial guarantees. All such revisions require approval by the DRC Chair, the User Department and agent/owner. If such approvals are obtained, these revisions to the listing will be incorporated administratively. In addition, any unforeseen items which arise during construction which are necessary to complete the project and which normally are the Subdivider's responsibility will be required as a condition of project acceptance and close out by the City.

Financially Guaranteed DRC #	Constructed Under DRC #	Size	Type of Improvement	Location	From	To	Construction Certification		
							Private Inspector	P.E.	City Cnst Engineer
		28' FF	Paving Res. Pvmt. w/ Mountable Curb (Both Sides & Cul De Sac)	Sol Vita Court	Signal Ave.	Cul-De-Sac	/	/	/
		4'	Sidwalk East / West Side and Cul De Sac	Sol Vita Court	Signal Ave.	Cul-De-Sac	/	/	/
		24'-28' FE	Res. Pvmt. w/ Standard Curb and 4' Sidewalk (South Side)	Signal Ave.	Louisiana Blvd.	East PL	/	/	/
		6"	Water Water Line, Hydrant and Services and Appurtenances	Sol Vita Court	Signal Ave.	Cul-De-Sac	/	/	/
		8"	Sanitary Sewer SAS W/ Appurtenances and Services	Sol Vita Court	Signal Ave.	Cul-De-Sac	/	/	/
		18"	Storm Drain Storm Drain W/ Type Dbl.C & A Inlets	Signal Ave.	Existing SD	30' East.	/	/	/
							/	/	/
							/	/	/
							/	/	/
							/	/	/

listing. The items listed below are subject to the standard SIA requirements.							Construction Certification		
Financially Guaranteed DRC #	Constructed Under DRC #	Size	Type of Improvement	Location	From	To	Private Inspector	P.E.	City Cnst Engineer
							/	/	/
							/	/	/
Approval of Creditable Items:							Approval of Creditable Items:		
Impact Fee Administrator Signature Date							City User Dept. Signature Date		

NOTES

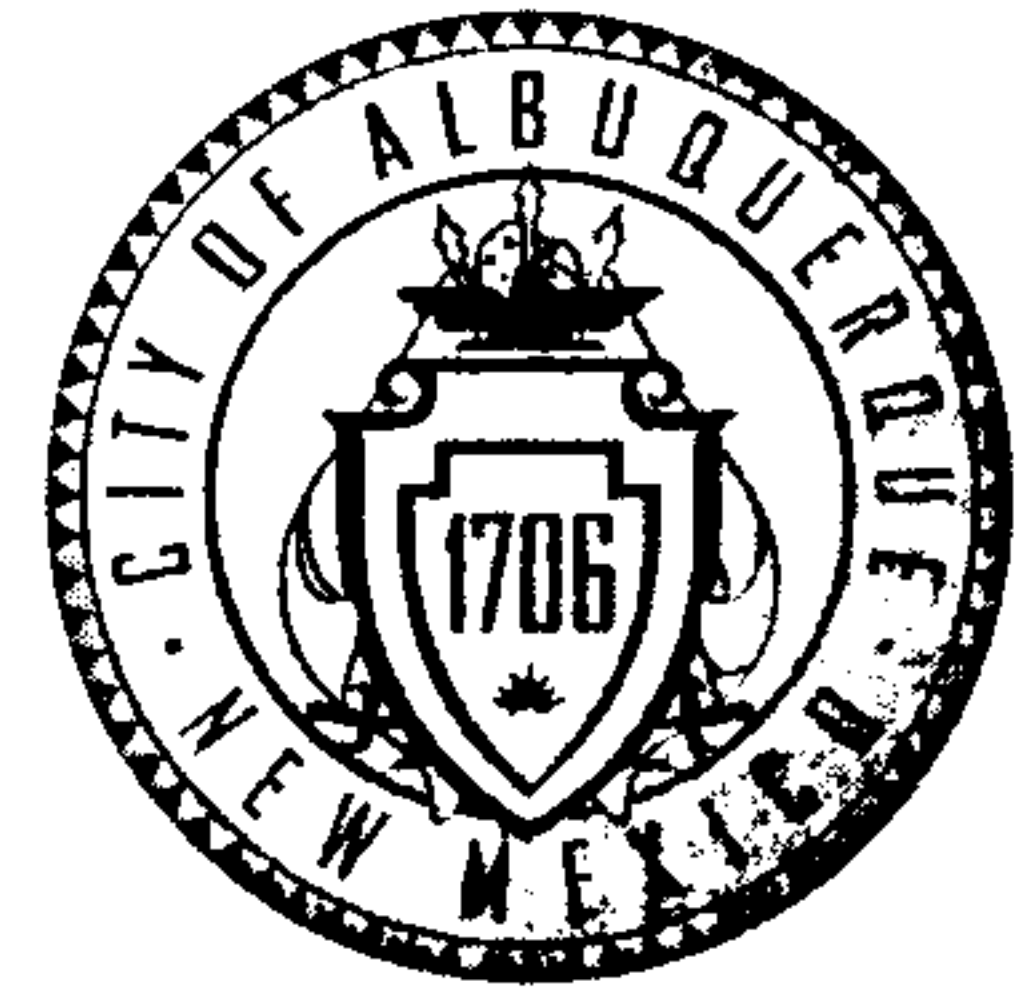
If the site is located in a floodplain, then the financial guarantee will not be released until the LOMR is approved by FEMA.
Street lights per City requirements.

1	
2	
3	

AGENT / OWNER	DEVELOPMENT REVIEW BOARD MEMBER APPROVALS	
Ron E. Hensley P.E. NAME (print) THE Group FIRM  3/2/16 SIGNATURE - date	 3-2-16 DRB CHAIR - date  3/2/16 TRANSPORTATION DEVELOPMENT - date  05/02/16 UTILITY DEVELOPMENT - date  3-2-14 CITY ENGINEER - date	 3-2-16 PARKS & GENERAL RECREATION - date AMAFCA - date - date - date

DESIGN REVIEW COMMITTEE REVISIONS				
REVISION	DATE	DRC CHAIR	USER DEPARTMENT	AGENT / OWNER

CITY OF ALBUQUERQUE



February 24, 2016

Richard J. Berry, Mayor

Ron E. Hensley, P.E.
THE Group
300 Branding Iron Road S.E.
Rio Rancho, Nm, 87124

**RE: Sol Vita Subdivision
Grading and Drainage Plan
Engineer's Stamp Date 2-22-16 (C19D020)**

Dear Mr. Hensley:

Based upon the information provided in your submittal received 2-22-16, the above referenced Grading & Drainage Plan is approved for Preliminary Plat action by the DRB.

We understand that you will be coordinating with Transportation Planning and the City Engineer regarding the final width of Signal Ave at Louisiana. Any minor changes to the plan can be reflected on the DRC Set without re-submitting a Grading and Drainage Masterplan.

The above-referenced Plan is approved for Grading/ESC Permit, with the condition that coordination regarding ESC Plan approval is completed with the City's Storm Water Quality Engineer prior to any grading-related earthwork.

PO Box 1293

If you have any questions, you can contact me at 924-3986.

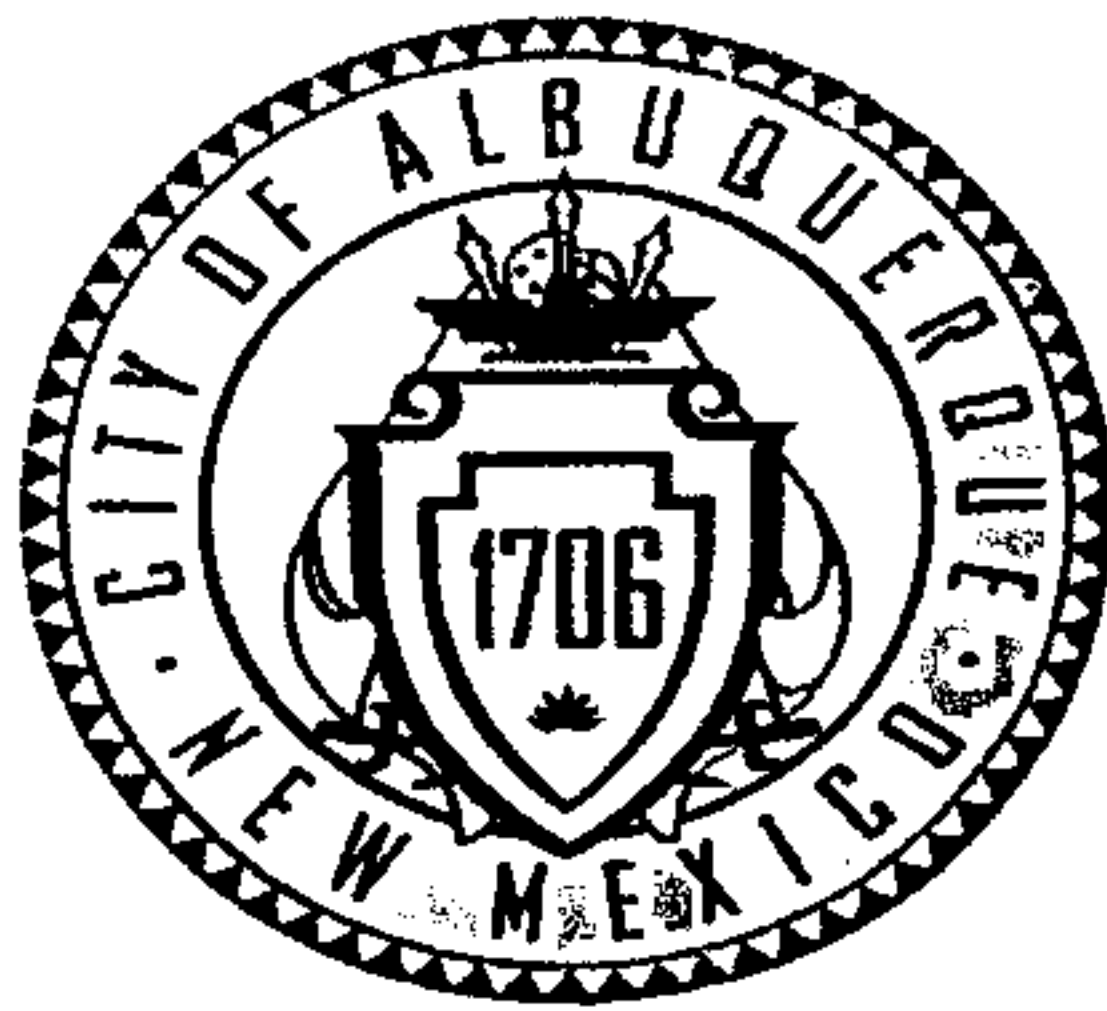
Albuquerque

Sincerely,

New Mexico 87103

Abiel Carrillo, P.E.
Principal Engineer, Planning Dept.
Development Review Services

www.cabq.gov



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: Sol Vita Subdivision Building Permit #: _____ City Drainage #: C19D02
DRB#: 1010520 EPC#: _____ Work Order#: _____
Legal Description: Fire Station #19, BLOCK 5, UNIT 3, TRACT 2, NORTH ALBUQUERQUE ACRES
City Address: 7800 Signal Ave. NE

Engineering Firm: THE Group Contact: Ron Hensley
Address: 300 Branding Iron Rd. SE, Rio Rancho, NM 87124
Phone#: 505-410-1622 Fax#: _____ E-mail: ron@thegroup.cc

Owner: Nazish LLC Contact: Shakeel Rizvi
Address: 8504 Waterford Pl. N.E., Albuquerque, NM, 87122
Phone#: 505-315-6563 Fax#: _____ E-mail: _____

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

Surveyor: Terrametrics Contact: _____
Address: 4175 Montgomery Blvd., NE, Albuquerque, NM 87105
Phone#: 505-379-4301 Fax#: _____ E-mail: _____

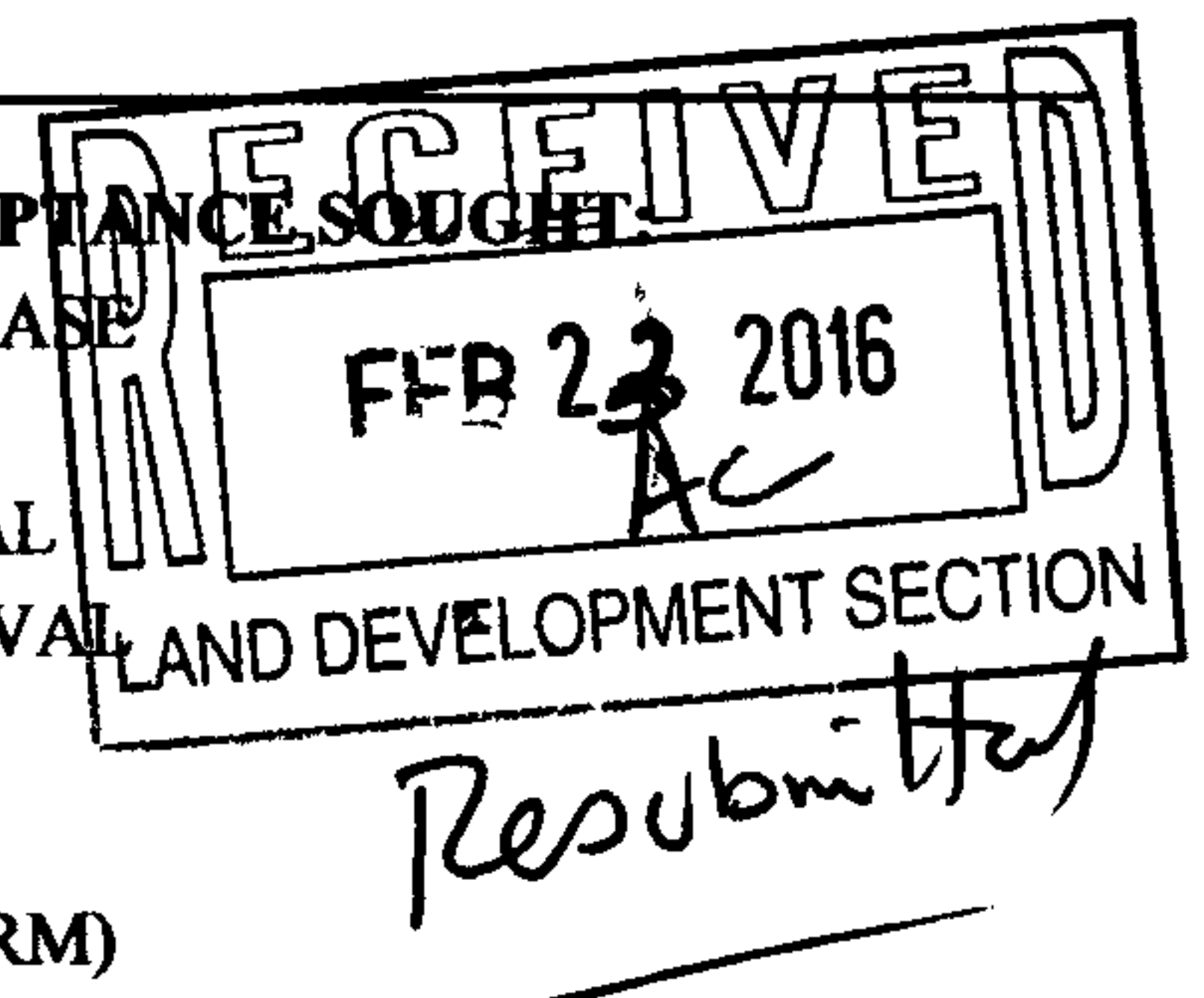
Contractor: _____ Contact: _____
Address: _____
Phone#: _____ Fax#: _____ E-mail: _____

TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT
- ☐ DRAINAGE PLAN 1st SUBMITTAL
- ☐ DRAINAGE PLAN RESUBMITTAL
- ☐ CONCEPTUAL G & D PLAN
- ☒ GRADING PLAN
- ☐ EROSION & SEDIMENT CONTROL PLAN (ESC)
- ☐ ENGINEER'S CERT (HYDROLOGY)
- ☐ CLOMR/LOMR
- ☐ TRAFFIC CIRCULATION LAYOUT (TCL)
- ☐ ENGINEER'S CERT (TCL)
- ☐ ENGINEER'S CERT (DRB SITE PLAN)
- ☐ ENGINEER'S CERT (ESC)
- ☐ SO-19
- ☐ OTHER (SPECIFY)

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

- ☐ SIA/FINANCIAL GUARANTEE RELEASE
- ☒ PRELIMINARY PLAT APPROVAL
- ☐ S. DEV. PLAN FOR SUB'D APPROVAL
- ☐ S. DEV. FOR BLDG. PERMIT APPROVAL
- ☐ SECTOR PLAN APPROVAL
- ☐ FINAL PLAT APPROVAL
- ☐ CERTIFICATE OF OCCUPANCY (PERM)
- ☐ CERTIFICATE OF OCCUPANCY (TCL TEMP)
- ☐ FOUNDATION PERMIT APPROVAL
- ☐ BUILDING PERMIT APPROVAL
- ☒ GRADING PERMIT APPROVAL
- ☐ PAVING PERMIT APPROVAL
- ☐ WORK ORDER APPROVAL
- ☐ GRADING CERTIFICATION
- ☐ SO-19 APPROVAL
- ☒ ESC PERMIT APPROVAL
- ☐ ESC CERT. ACCEPTANCE
- ☐ OTHER (SPECIFY)



WAS A PRE-DESIGN CONFERENCE ATTENDED: _____ Yes _____ No ☒ Copy Provided

DATE SUBMITTED: 2/22/2016 By: Ron Hensley

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, and scope to the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the following:

1. **Conceptual Grading and Drainage Plan:** Required for approval of Site Development Plans greater than five (5) acres and Sector Plans
2. **Drainage Plans:** Required for building permits, grading permits, paving permits and site plans less than five (5) acres
3. **Drainage Report:** Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more
4. **Erosion and Sediment Control Plan:** Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development

Abiel X. Carrillo

From: Abiel X. Carrillo
Sent: Wednesday, February 17, 2016 4:53 PM
To: 'ron@thegroup.cc'
Cc: Cherne, Curtis
Subject: C19D020 - Sol Vita Subdivision - Stamp Date 2-4-2016

Mr. Hensley,

This email is being sent in lieu of an attached comment letter in order to expedite the response for initial reviews. Responses to comments should continue to be included in a re-submittal. A reply to this email with responses to comments will not be considered a re-submittal.

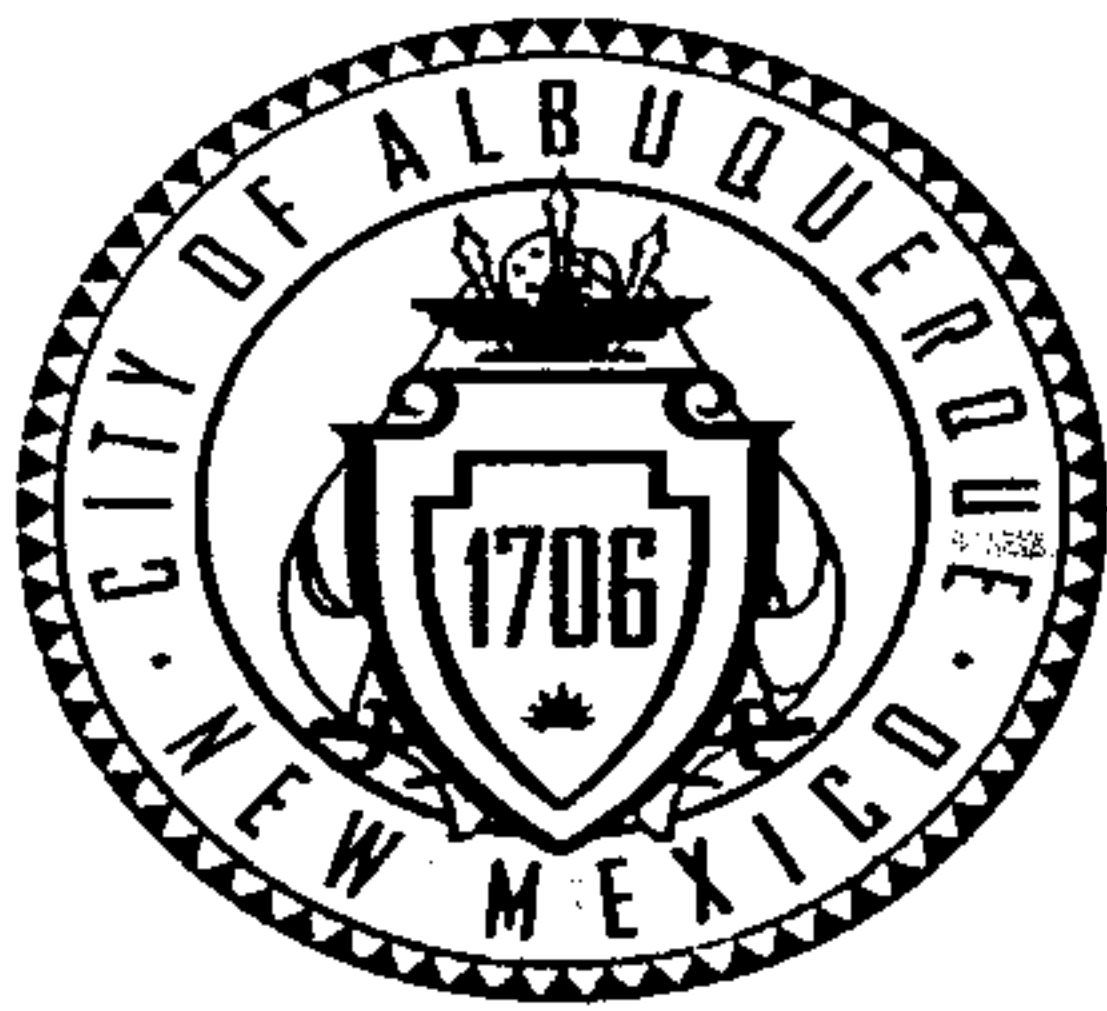
Based upon the information provided in your re-submittal received 2-3-2016, and as discussed at DRB (1010520) the above referenced Grading Plan cannot be approved for Preliminary Plat, or Grading Permit (ESC), until the following comments are addressed (comments with strike font were addressed at DRB):

1. The drainage submittal needs to include a (brief) summary that describes how the recent improvements make the existing surge pond unnecessary, and how the two City projects were completed with the intent to completely remove the existing pond. To clarify, I don't need a full-blown report, it can just be a short email that describes how the various projects were built up to have the ability of this project to free discharge to the new system. I realize that the background is obvious to you (and to me now), but I need the file to be clear enough for any future reviewer, without having to piece together the reports for the previous three projects, since the only narrative on the plan states that the subdivision will free discharge to Signal Ave with an insignificant increase in peak flow.
2. ~~Reference the applicable master plan and related city projects.~~ Addressed with the previous comment.
3. Include the capacity of the inlet to justify the size and type for I.L.
4. Use the City's revised 2405A/B standard drawing showing the depression between curb and sidewalk on the cul-de-sac, and along Signal Ave. Alternatively, call out the detail on the grading plan, and show it on the typical section sheet of the future DRC Set.
5. Show more information of the tie in points for curb and gutter to ensure that transitions are smooth (elevations just to the west of the new inlet and to the east of the east terminus on Signal Ave).
6. The roadway improvements proposed on the infrastructure list on Signal need to be accounted for on the grading plan. The half-road construction needs to be ready to tie in to the future paving of the north side of the road. The expected layout of Signal Avenue should be at least conceptually developed to understand how the future half section to the north will tie in to the south half.
7. ~~Does the pipe to the pond need to be removed?~~ We understand that the pipe was removed with a previous project.

Any question just let me know.

Abiel Carrillo, P.E.
Principal Engineer - Hydrology
Planning Department

Development Review Services Division
City of Albuquerque
505-924-3986
acarrillo@cabq.gov
600 2nd Street NW
Albuquerque, NM 87102



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

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DRB#: 1010520 EPC#: _____ Work Order#: _____
Legal Description: Fire Station #19, BLOCK 5, UNIT 3, TRACT 2, NORTH ALBUQUERQUE ACRES
City Address: 7800 Signal Ave. NE

Engineering Firm: THE Group Contact: Ron Hensley
Address: 300 Branding Iron Rd. SE, Rio Rancho, NM 87124
Phone#: 505-410-1622 Fax#: _____ E-mail: ron@thegroup.cc

Owner: Nazish LLC Contact: Shakeel Rizvi
Address: 8504 Waterford Pl. N.E., Albuquerque, NM, 87122
Phone#: 505-315-6563 Fax#: _____ E-mail: _____

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

Surveyor: Terrametrics Contact: _____
Address: 4175 Montgomery Blvd., NE, Albuquerque, NM 87105
Phone#: 505-379-4301 Fax#: _____ E-mail: _____

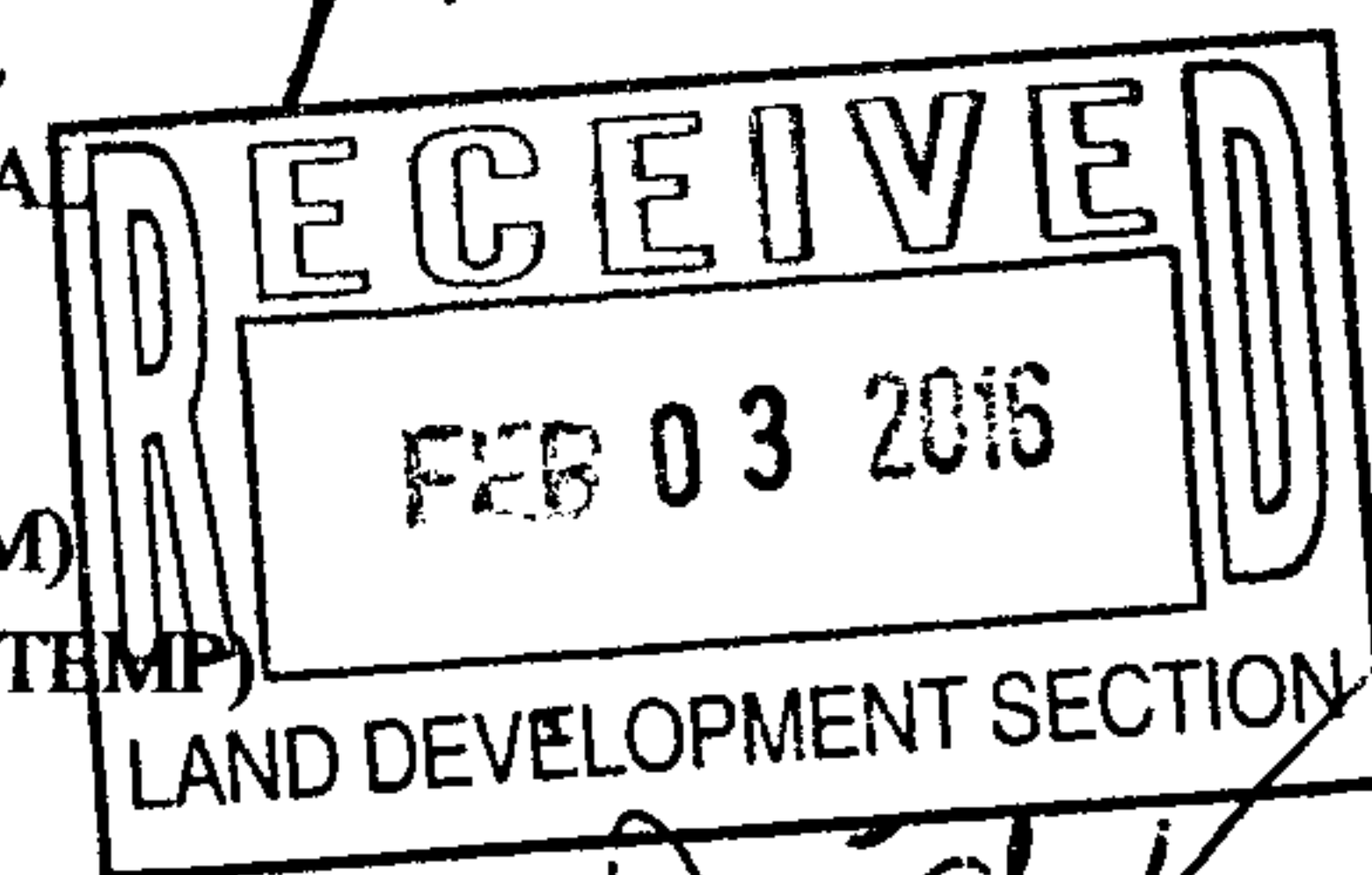
Contractor: _____ Contact: _____
Address: _____
Phone#: _____ Fax#: _____ E-mail: _____

TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT
- ☐ DRAINAGE PLAN 1st SUBMITTAL
- ☐ DRAINAGE PLAN RESUBMITTAL
- ☐ CONCEPTUAL G & D PLAN
- ☒ GRADING PLAN
- ☐ EROSION & SEDIMENT CONTROL PLAN (ESC)
- ☐ ENGINEER'S CERT (HYDROLOGY)
- ☐ CLOMR/LOMR
- ☐ TRAFFIC CIRCULATION LAYOUT (TCL)
- ☐ ENGINEER'S CERT (TCL)
- ☐ ENGINEER'S CERT (DRB SITE PLAN)
- ☐ ENGINEER'S CERT (ESC)
- ☐ SO-19
- ☐ OTHER (SPECIFY)

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- ☒ PRELIMINARY PLAT APPROVAL
- ☐ S. DEV. PLAN FOR SUB'D APPROVAL
- ☐ S. DEV. FOR BLDG. PERMIT APPROVAL
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- ☐ CERTIFICATE OF OCCUPANCY (TCL TEMP)
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- ☐ WORK ORDER APPROVAL
- ☐ GRADING CERTIFICATION
- ☐ SO-19 APPROVAL
- ☐ ESC PERMIT APPROVAL
- ☐ ESC CERT. ACCEPTANCE
- ☐ OTHER (SPECIFY)



WAS A PRE-DESIGN CONFERENCE ATTENDED: _____ Yes _____ No ☒ Copy Provided

DATE SUBMITTED: 2/4/2015 By: Ron Hensley

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, and scope to the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the following:

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The HENSLEY ENGINEERING GROUP

February 3, 2016

Hydrology Development
City of Albuquerque
PO Box 1293
Albuquerque, NM 87103

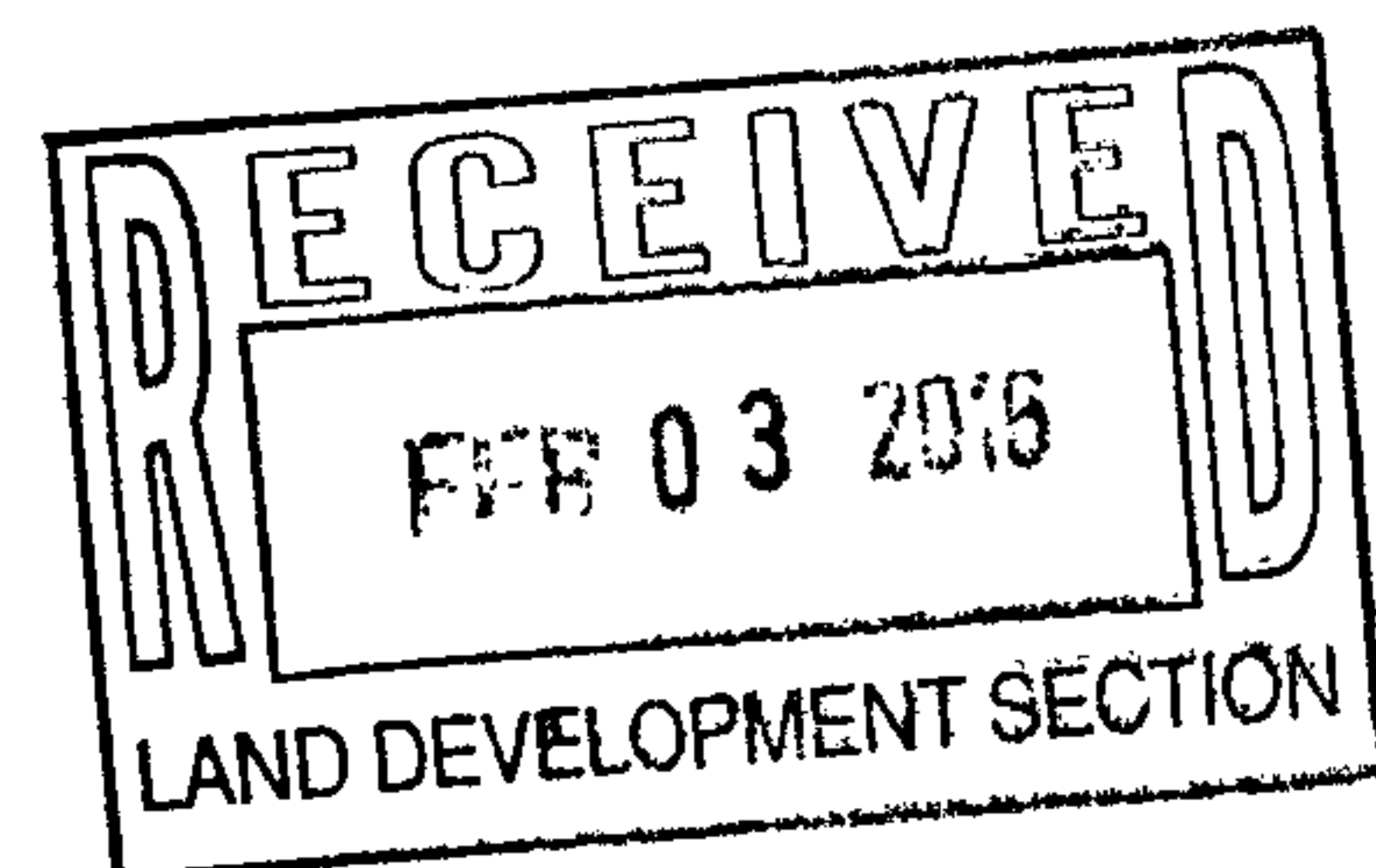
Re: Sol Vita Subdivision – Grading and Drainage Plan

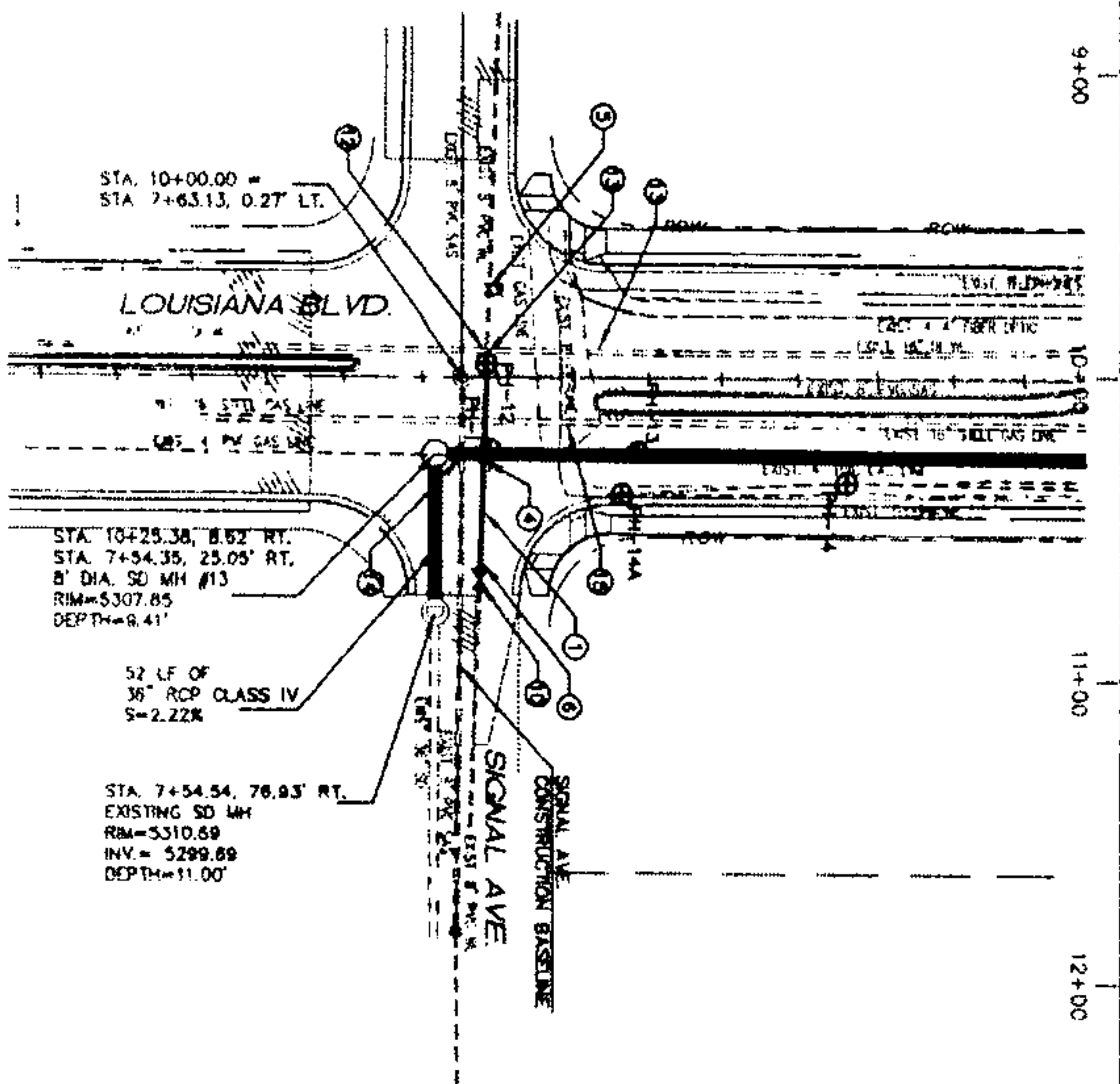
We are requesting a review of the attached plan in support of the Preliminary Plat and Grading Permit of Sol Vita Subdivision. The subdivision is a replat of “Lot 12 Block 3 Unit 3 Tract 2 of North Albuquerque Acres” and is located at 7800 Signal Ave. at the intersection of Louisiana Blvd. and Signal Ave. The plan covers the impact of the development on existing drainage infrastructure. We are requesting a review for compliance with City requirements.

Please contact me at 410-1622 or via email if you have any questions or comments.

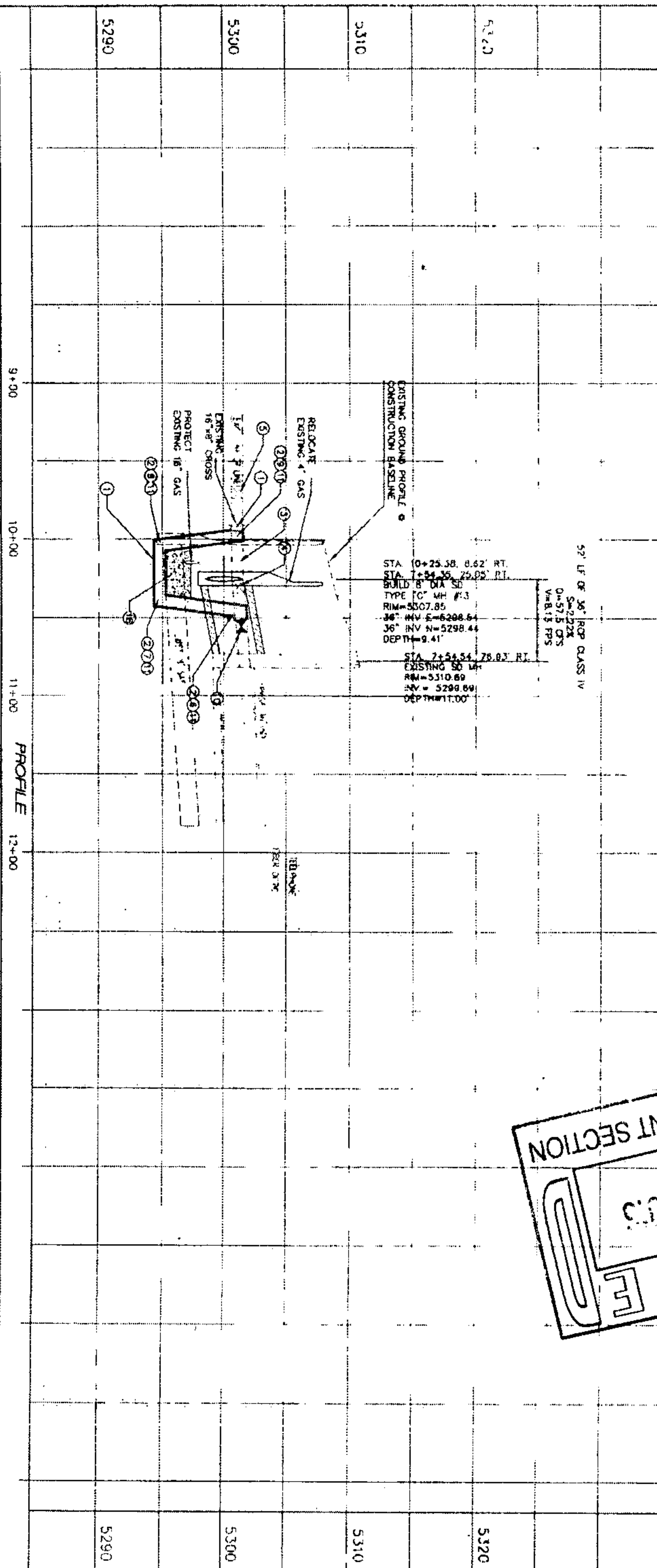
Sincerely,

Ron E. Hensley P.E.
ron@thegroup.cc





SIGNAL WATER RELOCATION PLAN



RECEIVED
 FEB 03 2003
 LAND DEVELOPMENT SECTION

NOTES:

1. NEW 36" RCP DRAIN WATERLINE SHALL RESTAIN ALL JOINTS IN NEW SECTION OF PIPE.
2. INSTALL POC BLOOMING AT 45° FITTINGS PER COA STD DWG 2200.
3. REMOVE AND DISPOSE 70" LF OF 8" WATERLINE.
4. STA 10+50.30 REMOVE AND DISPOSE 8" GATE VALVE AND BOX.
5. STA 9+71.45, 8.98' LT. 8" GATE VALVE AND BOX TO REMAIN.
6. STA 10+62.88, 6.98' LT. INSTALL 8" 45° DUCTILE IRON MECHANICAL JOINT FITTING 10.0'-5301.78.
7. STA 10+42.88 INSTALL 8" 45° DUCTILE IRON MECHANICAL JOINT FITTING 10.0'-5283.32.
8. STA 10+11.19 INSTALL 8" 45° DUCTILE IRON MECHANICAL JOINT FITTING 10.0'-5285.32.
9. STA 9+81.19, 8.36' LT. INSTALL 8" MECHANICAL JOINT FITTING 10.0'-5301.50.
10. STA 10+08.30, 8.62' LT. INSTALL 8" MECHANICAL JOINT DATE VALVE AND TYPE "X" VALVE BOX.
11. INSTALL EMO.
12. STA 9+81.07, 8.36' LT. REMOVE 8" WATERLINE INTO EXISTING 10" X 8" CROSS.
13. CONTRACTOR TO PROTECT EXISTING 18" WATER LINE.
14. CONTRACTOR TO PROTECT EXISTING 8" SANITARY SEWER LINE.
15. CONTRACTOR TO PROTECT EXISTING 16" GAS LINE.
16. PLACE LEAK FILL PER ABRONIA STD DWG 2281.

POI-HOLE INFORMATION

NO.	DATE	DESCRIPTION	BY
1	10-12-02	POI-HOLE INFORMATION	WATER
2	10-12-02	POI-HOLE INFORMATION	GAS
3	10-12-02	POI-HOLE INFORMATION	TELEPHONE
4	10-12-02	POI-HOLE INFORMATION	TELEPHONE
5	10-12-02	POI-HOLE INFORMATION	TELEPHONE
6	10-12-02	POI-HOLE INFORMATION	TELEPHONE
7	10-12-02	POI-HOLE INFORMATION	TELEPHONE
8	10-12-02	POI-HOLE INFORMATION	TELEPHONE
9	10-12-02	POI-HOLE INFORMATION	TELEPHONE
10	10-12-02	POI-HOLE INFORMATION	TELEPHONE

NOTE:
HQS BASED ON DEVELOPED CONDITIONS WITH FUTURE STREET TRENCH SYSTEM CONSTRUCTION.

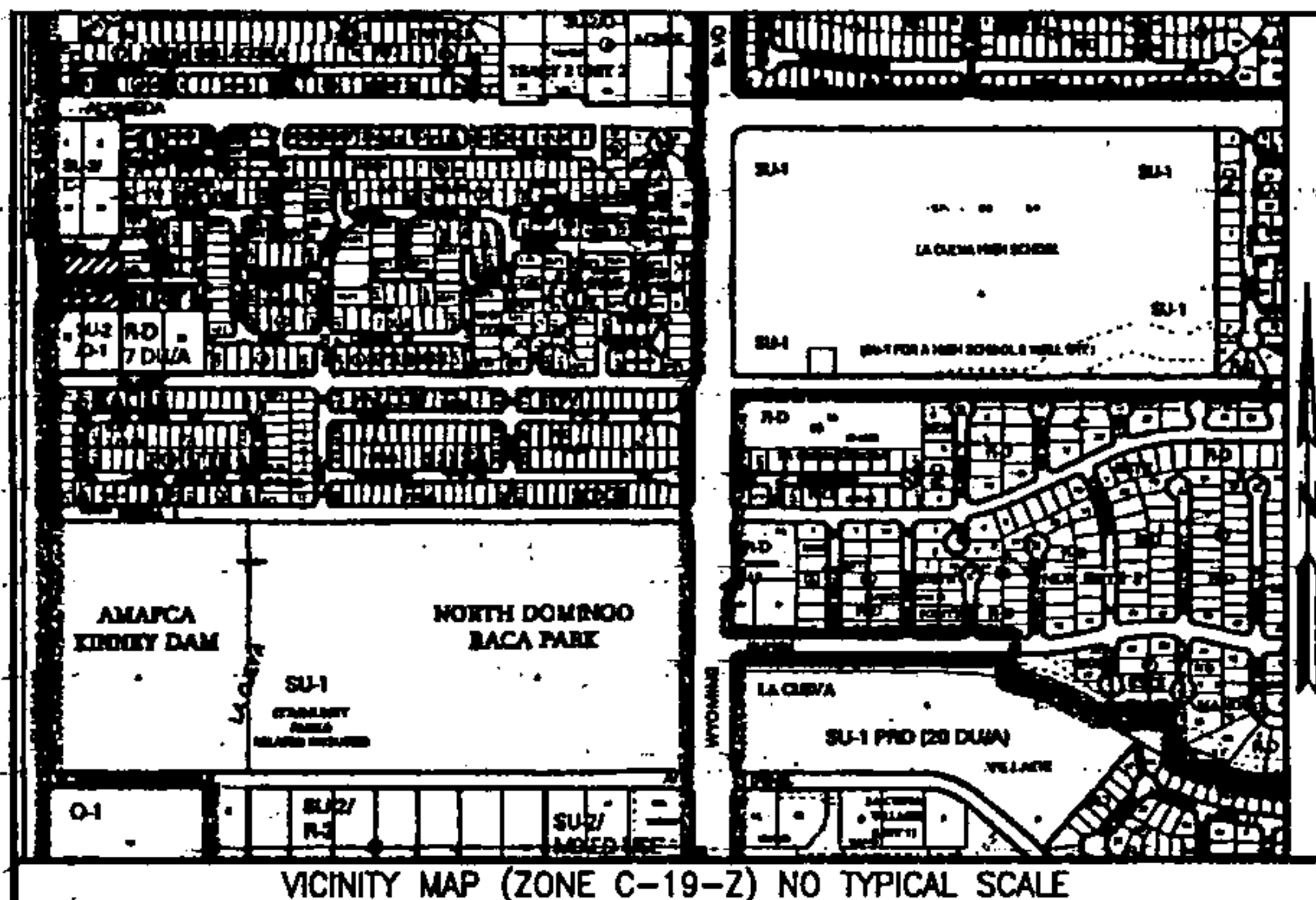


CITY OF ALABAMA
 DEPARTMENT OF MUNICIPAL DEVELOPMENT
 ENGINEERING DIVISION
 ALABAMA BLVD. WIDENING
 SIGNAL WATER LINE RELOCATION
 PLAN AND PROFILE STA. 10+00 TO STA. 12+00

C-81-C-9
 4-7
 84

BENCH MARKS		AS BUILT INFORMATION	
CONTRACTOR	DATE	CONTRACTOR	DATE
REVISION	DATE	REVISION	DATE
NO.	DATE	NO.	DATE
1	11-20-02	1	11-20-02

FIELD NOTES
 NO. 11599
 DATE 11-20-02



SUBDIVISION DATA

- 1) CASE No. _____
- 2) ZONE ATLAS INDEX No. C-19.
- 3) GROSS SUBDIVISION AREA: 1.0025 ACRES
- 4) TOTAL NUMBER OF LOTS CREATED: 8 LOTS
- 5) DRB PROJECT No. _____
- 6) TOTAL MILEAGE OF FULL WIDTH STREETS CREATED: 0.034

THIS IS TO CERTIFY THAT TAXES ARE CURRENT
AND PAID ON UPC # 101906402130521431
PROPERTY OWNER OF RECORD NAZISH LLC
BERNALILLO COUNTY TREASURER'S OFFICE

PLAT OF

SOL VITA SUBDIVISION

SITUATE WITHIN
PROJECTED SECTION 18
T.11N., R.4E., N.M.P.M.
ELENA GALLEGOS LAND GRANT
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO

FEBRUARY 2016

APPROVALS as specified by the City of Albuquerque Subdivision Ordinance:
PROJECT NO. _____ APPLICATION NO. _____

PROPERTY DESCRIPTION

A CERTAIN TRACT OR PARCEL OF LAND SITUATE IN SECTION 18, TOWNSHIP 11 NORTH, RANGE 4 EAST, N.M.P.M., IN THE ELENA GALLEGOS LAND GRANT, CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, BEING ALL OF CITY OF ALBUQUERQUE FIREHOUSE SITE 19, AS SHOWN AND DESIGNATED ON THE PLAT OF THE SAME NAME AS FILED IN THE RECORDS OF BERNALILLO COUNTY, NEW MEXICO, ON JANUARY 6, 1983, IN VOLUME C20 AT FOLIO 137, BUT EXCLUDING THEREFROM A PORTION ALONG THE WEST BOUNDARY THREE FEET IN WIDTH DEDICATED PREVIOUSLY TO THE CITY OF ALBUQUERQUE FOR RIGHT OF WAY IN LOUISIANA BOULEVARD, AND CONTAINING 64465 SQUARE FEET (1.4799 ACRES), MORE OR LESS.

THE PURPOSE OF THIS PLAT IS TO REPLAT CITY OF ALBUQUERQUE FIRE STATION SITE NUMBER 19 FOR THE PURPOSES OF CREATING AN EIGHT LOT SUBDIVISION TO BE KNOWN AS SOL VITA SUBDIVISION, TO DEDICATE SOL VITA COURT, N.E. AND TO GRANT TEN FOOT PUBLIC UTILITY EASEMENTS TO SERVE THE PARCELS CREATED.

UTILITY NOTE:

PUBLIC UTILITY EASEMENT SHOWN HEREON IS TEN FEET (10') WIDE ALONG SIGNAL AVENUE, N.E. AND SOL VITA COURT, N.E. AND IS GRANTED FOR THE JOINT AND COMMON USE OF:

- A) PNM ELECTRIC SERVICES FOR THE INSTALLATION, MAINTENANCE AND SERVICE OF UNDERGROUND ELECTRICAL LINES, TRANSFORMERS, POLES AND ANY OTHER EQUIPMENT, FIXTURES, STRUCTURES AND RELATED FACILITIES REASONABLY NECESSARY TO PROVIDE ELECTRIC SERVICE.
- B) NEW MEXICO GAS COMPANY FOR THE INSTALLATION, MAINTENANCE, AND SERVICE OF NATURAL GAS LINES, VALVES AND OTHER EQUIPMENT AND RELATED FACILITIES REASONABLY NECESSARY TO PROVIDE NATURAL GAS SERVICE.
- C) CENTURY LINK FOR THE INSTALLATION, MAINTENANCE AND SERVICE OF ALL BURIED COMMUNICATION LINES AND OTHER RELATED EQUIPMENT AND FACILITIES REASONABLY NECESSARY TO PROVIDE COMMUNICATION SERVICES, INCLUDING, BUT NOT LIMITED TO, ABOVE GROUND PEDESTALS AND CLOSURES.
- D) COMCAST CABLE FOR THE INSTALLATION, MAINTENANCE AND SERVICE OF SUCH UNDERGROUND LINES, CABLE AND OTHER RELATED EQUIPMENT AND FACILITIES REASONABLY NECESSARY TO PROVIDE CABLE TV SERVICE.

CONSENT AND DEDICATION STATEMENT

THE UNDERSIGNED DOES HEREBY STATE AND AFFIRM THAT I AM THE OWNER AND PROPRIETOR OF THE LANDS SHOWN HEREON AND THAT I POSSESS COMPLETE AND INDEFEASIBLE TITLE THERETO, IN FEE SIMPLE, AND I DO FURTHER STATE THAT THE SUBDIVISION SHOWN HEREON IS OF MY FREE WILL AND CONSENT IN ACCORDANCE WITH MY EXPRESSED WISHES AND DESIRES AND THAT I AM DEDICATING THE RIGHT OF WAY OF SOL VITA COURT, NORTHEAST TO THE CITY OF ALBUQUERQUE IN FEE SIMPLE WITH WARRANTY COVENANTS AND THAT I AM GRANTING ALL EASEMENTS SHOWN IN WITNESS THEREOF I HEREBY AFFIX MY HAND.

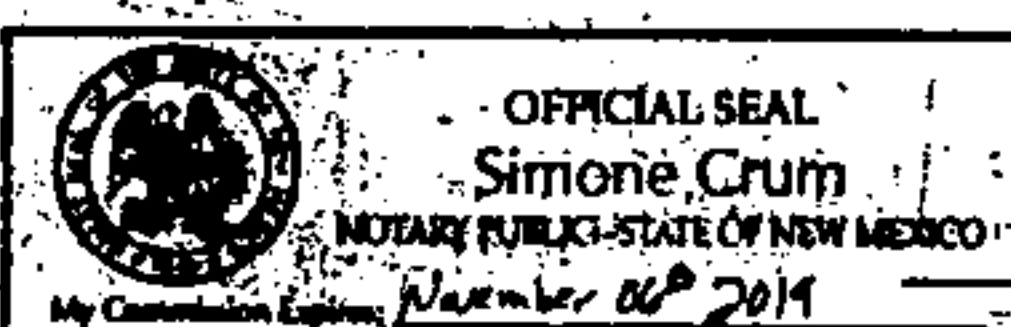
SHAKEEL RIZVI FOR NAZISH LLC

ACKNOWLEDGMENT

STATE OF NEW MEXICO

COUNTY OF BERNALILLO

THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME THIS 02nd DAY OF February, 2016, BY SHAKEEL RIZVI FOR NAZISH LLC, A NEW MEXICO LIMITED LIABILITY CORPORATION.



NOTARY PUBLIC

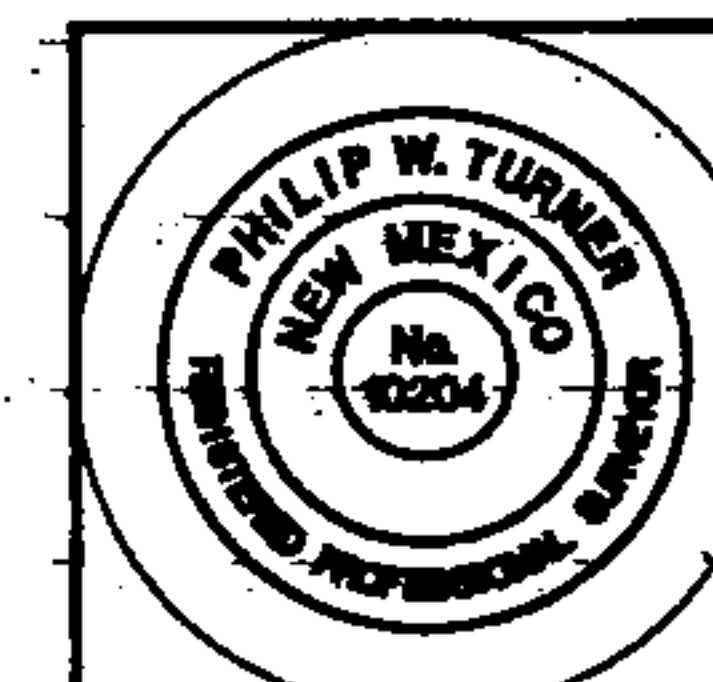
MY COMMISSION EXPIRES 11 / 06 / 2019

DRB CHAIRPERSON, PLANNING DEPARTMENT	DATE
CITY ENGINEER	DATE
TRAFFIC ENGINEERING, TRANSPORTATION DIVISION	DATE
UTILITIES DEVELOPMENT	DATE
PARKS AND RECREATION DEPARTMENT	DATE
A.M.A.F.C.A.	DATE
REAL PROPERTY DIVISION, CITY OF ALBUQUERQUE	DATE
<i>Steven M. Rink</i> 7.5. 2/2/16 CITY SURVEYOR, CITY OF ALBUQUERQUE	DATE
PNM ELECTRIC SERVICES COMPANY	DATE
NEW MEXICO GAS COMPANY	DATE
QWEST CORPORATION d/b/a CENTURYLINK QC	DATE
COMCAST CABLE	DATE

ED SURVEYOR'S CERTIFICATION

I, PHILIP W. TURNER, A PROFESSIONAL SURVEYOR LICENSED IN ACCORDANCE WITH THE LAWS OF THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THIS PLAT WAS PREPARED BY ME, OR UNDER MY DIRECT SUPERVISION, FROM THE RETURNS OF AN ACTUAL SURVEY PERFORMED ON THE GROUND ON OCTOBER 5, 2015, THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT IT SATISFIES THE MINIMUM STANDARDS FOR LAND SURVEYING AS DETERMINED BY THE NEW MEXICO BOARD OF LICENSURE FOR PROFESSIONAL ENGINEERS AND SURVEYORS AND THAT IT MEETS THE REQUIREMENTS FOR PLATTING AND MONUMENTATION OF THE CITY OF ALBUQUERQUE SUBDIVISION ORDINANCE.

Philip W. Turner 2-2-16
PHILIP W. TURNER N.M.P.S. 10204 DATE



PLAT AND SURVEY BY:

TERRAMETRICS NM

4175 MONTGOMERY BLVD., NE
ALBUQUERQUE, NEW MEXICO 87109
PHONE: (505) 881-2903

1) BEARINGS SHOWN ARE NEW MEXICO COORDINATE SYSTEM, CENTRAL ZONE (NAD83), GRID BEARINGS AND ARE REFERENCED TO THE ALBUQUERQUE GEODETIC REFERENCE SYSTEM AS DETERMINED BY GPS OBSERVATIONS OBTAINED UTILIZING THE CITY OF ALBUQUERQUE REAL TIME GNSS NETWORK (ARTGN); DISTANCES SHOWN ARE GROUND.

2) EXCEPT AS SHOWN, NO OTHER EASEMENTS OR RIGHTS OF WAY ARE CREATED BY THIS PLAT. ALL EASEMENTS OF RECORD ARE SHOWN.

3) RECORD DATA ARE SHOWN IN PARENTHESES.

4) PRIOR TO DEVELOPMENT, THE OWNER/DEVELOPER SHALL OBTAIN FROM THE ALBUQUERQUE BERNALILLO

COUNTY WATER AUTHORITY (ABCWUA) A LETTER OF WATER AVAILABILITY; ABCWUA WATER AND SEWER SERVICE IS CURRENTLY AVAILABLE TO THE SUBJECT PROPERTY.

5) ALL DOCUMENTS OF RECORD USED IN THE PREPARATION OF THIS PLAT ARE CITED HEREON.

6) OPEN SPACE OF 2400 SQUARE FEET OR MORE PER DWELLING SHALL BE PRESERVED ON EACH LOT PER THE PROVISIONS OF SECTION 14-16-3-8(a)(3).

7) THE PROPERTY ON THIS PLAT IS SUBJECT TO A PRE-DEVELOPMENT FEE AGREEMENT WITH THE ALBUQUERQUE PUBLIC SCHOOLS RECORDED _____ BERNALILLO COUNTY DOCUMENT # _____

SOL VITA SUBDIVISION

SITUATE WITHIN

PROJECTED SECTION 18

T.11N., R.4E., N.M.P.M.

ELENA GALLEGOS LAND GRANT

CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO

FEBRUARY 2016



40 0 4

SCALE: 1" = 40'

LEGEND

EXISTING #5 REBAR WITH CAP "PWT 10204"

○ SET #5 REBAR WITH CAP "PWT 10204"

- CITY CONTROL MONUMENT

P.U.E. PUBLIC UTILITY EASEMENT

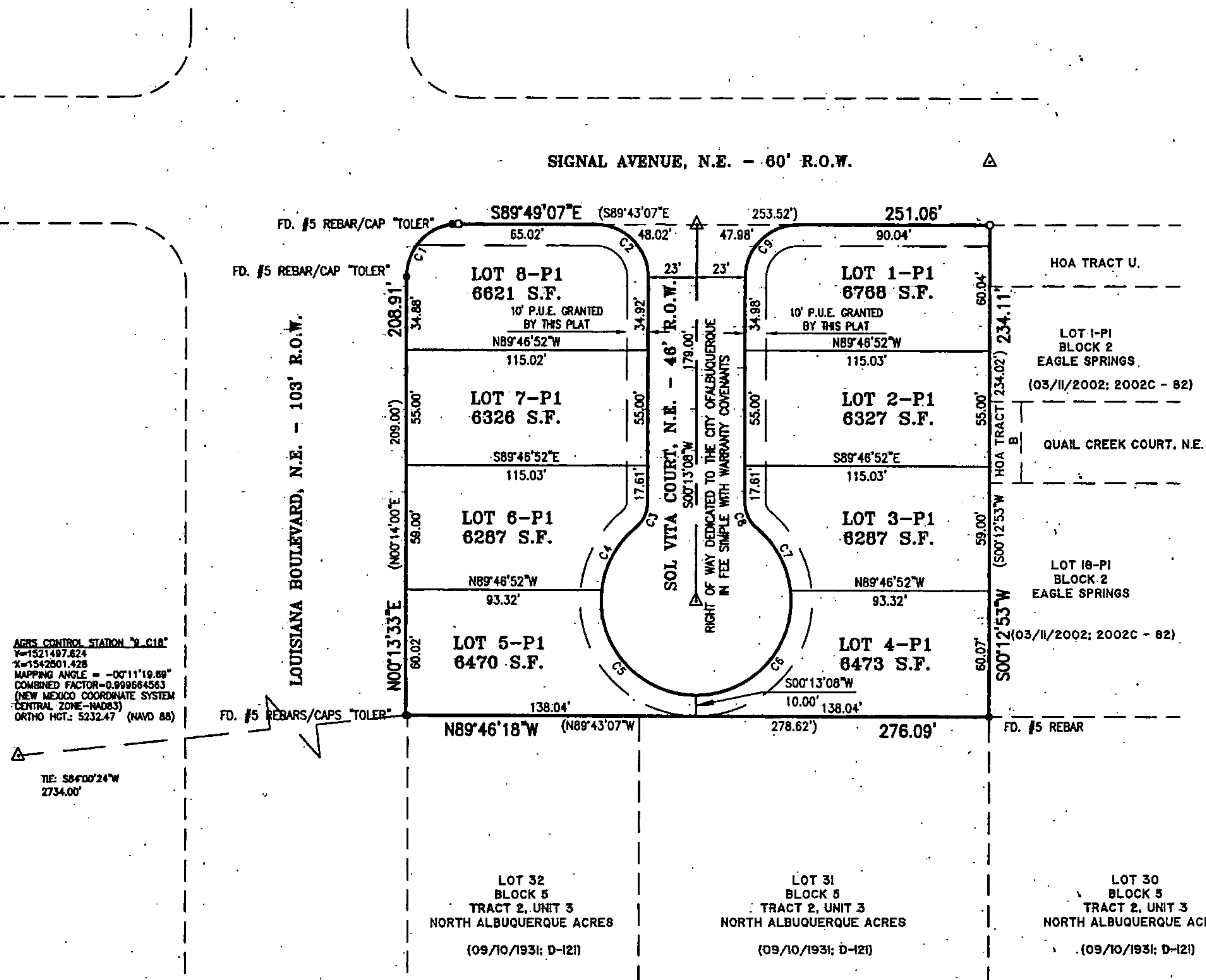
CURVE TABLE					
CURVE	LENGTH	RADIUS	DELTA	CHORD	DISTANCE
C1	39.25'	25.00'	89°57'20"	N45°12'13"E	35.34'
C2	39.29'	25.00'	90°02'15"	S44°47'59"E	35.37'
C3	13.27	15.00'	90°42'13"	S25°34'14"W	12.85'
C4	34.78'	45.00'	44°15'50"	S28°47'25"W	33.91'
C5	75.74'	45.00'	96°26'23"	S41°33'41"E	67.11'
C6	75.74'	45.00'	96°26'23"	N41°59'57"E	67.11'
C7	34.78'	45.00'	44°15'50"	N28°21'10"W	33.91'
C8	13.27'	15.00'	90°42'13"	N25°07'58"W	12.85'
C9	39.25'	25.00'	89°57'45"	N45°12'01"E	35.34'

No property within the area of requested final action plat shall at any time be subject to deed restriction, covenant or building agreement prohibiting solar collectors from being installed on buildings or erected on the lots or parcels within the area of proposed plat. The foregoing requirement shall be a condition to approval of this plat or site development plan for subdivision. (Section 14-14-4-7(B))

PLAT AND SURVEY BY:

TERRAMETRICS NM

4175 MONTGOMERY BLVD., NE
ALBUQUERQUE, NEW MEXICO 87109
PHONE: (505) 881-2903



CITY OF ALBUQUERQUE



February 5, 2016

Nazish LLC: Shakeel Rizvi at shaky1424@yahoo.com

Re: Drainage Control Ordinance (14-5-2-1) and NPDES CGP Violations for Erosion and Sediment Control – Sol Vita Subdivision

Dear Property Owner,

I visited the above referenced site located at Louisiana Blvd and Signal Ave. Grading operations have begun and the site does not have an approved grading and drainage plan, ESC plan, or an ESC Permit. The site is approximately 1.5 acres and has imported more than 500 cubic yards of dirt.

Stormwater Quality could not find your eNOI filing on EPA's website.

In addition, the following NPDES CGP violations were found at the site:

1. No stabilized construction entrance.
2. A partially installed silt fence.
3. Sediment was tracked onto Signal Ave and Louisiana Blvd.
4. The site was not posted.
5. Possible no filing of an eNOI.
6. The area south of the south silt fence is being used as a staging area and has been disturbed. This area is to be stabilized or included as part of the project site.

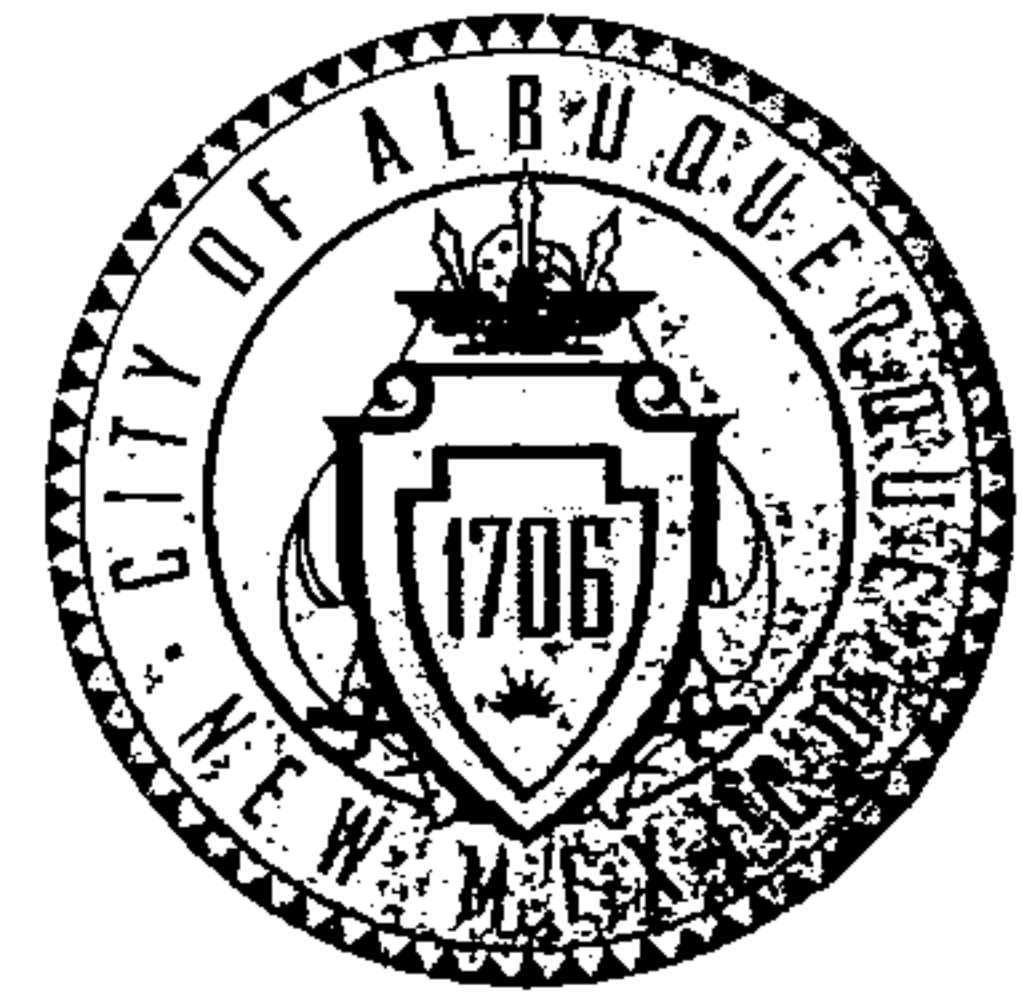
Required Mitigation:

1. Install a stabilized construction entrance.
2. Complete installation of the silt fence/sediment BMP.
3. Sweep the streets.
4. Post the site.
5. File an eNOI. If you have filed, provide the tracking number.
6. Stabilize the area south of the south silt fence or include as part of the project: silt fence, construction entrance, etc...
7. Have an approved grading and drainage plan.
8. Have an approved ESC plan.
9. Have an approved ESC Permit.

The above listed violations 1 through 5 are to be mitigated within seven days or your non-compliance will be reported to the New Mexico Environment Department, Surface Water Quality Bureau to aid in the determination if this issue is to be forwarded to the EPA.

In addition, if all listed violations, except 4 and 5, are not mitigated within 30 days or are found again after 30 days, the property owner is subject to a fine up to \$500/day per the City's Drainage Control Ordinance.

CITY OF ALBUQUERQUE



If you have any questions, you can contact me at 924-3420.

Sincerely,

Curtis Cherne, P.E.
Principal Engineer, Stormwater Quality
Planning Dept.

PO Box 1293

Copy: Guzman Construction Solutions (contractor): estimates@guzmancs.com

Albuquerque

New Mexico 87103

www.cabq.gov

CONCEPTUAL DRAINAGE REPORT

for

FIRE STATION NUMBER 20

Louisiana Boulevard and Signal Avenue NE

Albuquerque, New Mexico

October 16, 1997

REVISED: November 21, 1997



PREPARED BY
LARRY D. READ, PE
P. O. BOX 90233
ALBUQUERQUE, NEW MEXICO 87199
(505) 857-0863

CONCEPTUAL DRAINAGE REPORT

for

FIRE STATION NUMBER 20

Louisiana Boulevard and Signal Avenue NE

Albuquerque, New Mexico

October 16, 1997

REVISED: November 21, 1997

LOCATION & DESCRIPTION

Currently the site is undeveloped. The City of Albuquerque Fire department and City of Albuquerque Police department are proposing to construct a 14,000 square foot facility to be used as Fire Station #20 and police Substation #4. The proposed development will include approximately 26,100 square feet of paved parking.

EXISTING DRAINAGE CONDITIONS

The existing natural site is vegetated with high desert type grasses and weeds. It slopes toward the west at approximately 3%. The existing drainage is a combination of shallow sheet flow with the beginning of minor channels that convey the runoff west into Louisiana Boulevard. In addition to the on-site runoff, there is a small area (4.2 acres) of undeveloped land east of the site that drains across the site into Louisiana. The high point in Louisiana is at the intersection of Louisiana and Signal at the northwest corner of the site. Therefore, the runoff that reaches Louisiana from this site and the off-site basin is conveyed south within the Louisiana right-of-way to Wilshire where it turns west within the street section.

OFFSITE DRAINAGE

As discussed above, there is only one small 4.2 acre drainage undeveloped basin that discharges runoff to this site. This basin includes portions of several lots to the east of this site on the south side of Signal. The runoff currently concentrates in a shallow channel that

begins at the center of the east property line of this lot. The channel traverses this site from east to west and discharges the runoff into the Louisiana Blvd. Right-of-way. This report has analyzed the runoff from this area as natural land treatment only since there is no development and per the drainage master plan discussed below, as the lots develop, the runoff should be directed toward Signal Avenue and away from this lot.

MASTER PLAN

Several previous drainage reports found in PWD/Hydrology files have attempted analyze this area as off-site drainage to their project. The most recent case, The Eagle Rock Subdivision, Case C18-D39, dated 6/97 included this area in off-site Basin 302 as shown in Exhibit 2 - Future Conditions within that report. In general, Basin 302 included this lot plus 5 more directly east along the south side of Signal and 7 lots on the north side of Signal for a total of almost 15 acres. This basin was modeled using 0 acres of Type A soil treatment, 5.2 acres of Type B soil, 2.2 acres of Type C soil, and 7.5 acres of Type D soil. This modeling generated a 100-year runoff rate of 57 cfs. The master plan further anticipated that all runoff would be directed into Signal which would convey it west to the intersection of Signal and Louisiana where it would be picked up in a future 30" storm drain that would eventually discharge the runoff into the LaCueva Crossing under I-25. The Eagle Rock Subdivision Drainage Report anticipated that the grade break (and basin boundary) would be at the south property line of this lot and the lots to the east.

This site was also included in the drainage report for the ZRC Subdivision as Basin 117.2. The drainage basins, soil treatment types, and routing of the runoff in a 30" storm drain to the north were very similar to the report discussed above.

PROPOSED CONDITIONS

Preparation of this site for construction will require considerable earthwork but the only drainage pattern that will be affected is the off-site drainage from the 4.2 acres of undeveloped land to the east of this site. This runoff will be intercepted in a shallow channel that parallels the east property line and conveys the runoff north into the improved section of Signal instead of directly into Louisiana as it currently does. Once this runoff is in Signal, it will be conveyed west to Louisiana, its current discharge point.

On-site development will divide the area into two drainage basins. Basin "A" includes the northern portion of the office building, high bay, and northern equipment driveway to Signal. Due to the site layout, this basin is proposed to drain directly into Signal in both the temporary and permanent development plans. Drainage Basin "B" includes the balance of the site. The development in this basin includes the majority of the office building, high bay, south equipment access drive to the highway, and all of the parking area on this site.

Temporary Drainage Conditions

In order to comply with the accepted master drainage plans for this area, we have proposed to drain all of Basin "B" into a temporary retention pond along the west property line (adjacent to Louisiana Boulevard). This retention pond has been sized to hold all of the runoff from the fully developed Drainage Basin 'B' from a 100-year, 10 day storm. The maximum water depth in the pond will be 2.6 feet. Since the depth will exceed 1.5 feet, a temporary fence around the pond is proposed. Since the basin is proposed to be fully developed, sediment content in the runoff will be minimal. We have proposed the retention pond only as a temporary measure to reduce runoff from the site to below historic rates since construction of the ultimate section of Louisiana Boulevard, and the proposed storm drain will be deferred.

The runoff from Basin "A" is proposed to free discharge directly into Signal Avenue. The fully developed runoff from this basin is less than that of the existing natural site. This runoff will enter the ½ street section of Signal proposed to be constructed with this project. Once in Signal, the runoff will then flow west within the curb and gutter and turn south on the east side of Louisiana. Once it is in Louisiana it will continue south along the same route the drainage from the existing natural site follows.

In order to avoid discharging excessive sediment into Signal with the runoff from the off-site basin, this plan proposes to install and maintain a sediment fence along the east property line of this site and to install a hay bale sediment dam/pond upstream of the proposed sidewalk culvert on Signal. Both the sediment fence and sediment dam will be temporary since they will only be required until the next lot east of this site is developed and permanently stabilized.

Permanent Drainage Conditions

The accepted drainage master plan has proposed construction of a storm drain beginning at the intersection of Signal and Louisiana and proceeding north. The master drainage report assumes all lots within this basin will be graded to drain directly into Signal so the runoff could be intercepted in inlets at the intersection of Louisiana and Signal. To accomplish this grading pattern, this site would require excessive earthwork including soil import. In order to comply with the intent of the master drainage plan without the expense of the earthwork, this report proposes to drain the majority of this site (Basin 'B') into Louisiana Boulevard when the storm drain is constructed via two sidewalk culverts. By extending the storm drain to the south side of the lot, inlets placed along Louisiana will still intercept the runoff from this site and the runoff collected within Signal from the rest of the basin and will not exceed the conveyance capacity of Louisiana. This proposed variance to the approved master plan will keep the runoff from the master planned basin within the basin, avoid the excessive

earthwork on this site, and avoid excessive vertical realignment of Louisiana required to relocate the high point from the intersection with signal to the south side of this lot. This proposed inlet location will also avoid having to demolish and reconstruct several hundred feet of Signal east of Louisiana that will be constructed at part of this project and several hundred feet of Signal west of Louisiana that is currently existing to match the new vertical location of Louisiana Boulevard that would be required to collect all runoff from the master planned basin at the intersection of Louisiana and Signal.

FLOOD PLAIN STATUS

As shown on FEMA Map 350002-0004, there is not a designated flood plain on or near this site. Additionally, the runoff from this site does not contribute to any undrained flood plains.

METHODOLOGY

The hydrology for this project was analyzed using the January 1993 revision of the City of Albuquerque Development Process Manual, Section 22.2 as follows:

The specific values used for this analysis are as follows:

-Precipitation Zone 3

-Design Storm 100-year, 6-hour duration
 $i = 2.60$ inches ($t_c = 0.2$ hours)

The AHYMO computer model of the runoff volumes and peak flow rates are included in the Appendix B for reference.

SUMMARY

Results from hydrologic analysis:

Existing Conditions

Off-site Basin	Q100 = 7.9 cfs	V100 = .230 ac-ft
Basin A	Q100 = 0.6 cfs	V100 = .018 ac-ft
Basin B	Q100 = 2.2 cfs	V100 = .063 ac-ft
Total Contribution to Louisiana	Q100 = 10.8 cfs	V100 = .311 ac-ft

Developed Conditions

Off-site Basin	Q100 = 7.9 cfs	V100=.230 ac-ft	
Basin A	Q100 = 1.5 cfs	V100=.052 ac-ft	
Basin B	Q100 = 4.9 cfs	V100=.172 ac-ft	(To Pond)
Total Contribution to Louisiana	Q100 = 7.7 cfs	V100 = .254 ac-ft	

Note that the total reduction in runoff to Louisiana Boulevard is as follows:

$$Q100 = 0.2 \text{ cfs (Less)} \quad V100 = 0.057 \text{ ac-ft (2483 cf Less)}$$

RETENTION POND

Per City Ordinances, the proposed temporary retention pond has been sized to contain all runoff from a 100-year, 10 day storm. In order to prevent catastrophic failure of the pond in case the pond is overtopped, a riprap spillway is proposed at the south end of the pond. The runoff passing over the spillway would end up in Louisiana Boulevard. Also, since the depth of water in the pond during the design storm is in excess of 18", a security fence has been proposed around the pond.

$$\begin{aligned}
 V_{100,10\text{day}} &= V_{360} + A_D * (P_{10\text{day}} - P_{360})/12^{\text{in}}/\text{ft} \\
 &= 0.172 + 0.67 * (4.90 - 2.60)/12 \\
 &= 0.172 + 0.128 \\
 &= 0.30 \text{ acre-feet}
 \end{aligned}$$

APPENDIX A

RUN DATE (MON/DAY/YR) =10/20/1997
USER NO.= CINFRRNM.101

[illegible]

AHYMO PROGRAM (AHYMO194) - AMAFCA Hydrologic Model - January, 1994
RUN DATE (MON/DAY/YR) = 10/20/1997
START TIME (HR:MIN:SEC) = 13:44:09 USER NO.= CINFRNM.I01
INPUT FILE = C:\AHYMO\fs20.DAT

START TIME=0.0 0 -6
*S COMPUTE 100 YR. 6 HR. HYDROGRAPHS FOR Tierra Oeste Subdivision
*S FS20.DAT - HYMO PER JAN 1993 DPM REVISIONS
*S
*S

*S BASIN 2 RUNOFF ANALYSIS POINT (A.P) AT
*-----
*-----

RAINFALL TYPE=-1 RAIN QUAR=0 RAIN ONE=2.14 RAIN SIX=2.60
 RAIN DAY=3.10 DT=0.03

 COMPUTED 6-HOUR RAINFALL DISTRIBUTION BASED ON NOAA ATLAS 2 - PEAK AT 1.40 HR.
 DT = .030000 HOURS END TIME = 6.000000 HOURS
*-----
*-----

*S
*S COMPUTE RUNOFF FOR HISTORICAL CONDITIONS - OFF-SITE BASIN
*S
*-----

*S
*S
*S BASIN OFF-SITE
COMPUTE NM HYD ID=1 HYD NO= 101.1 DA=0.006563 SQ MI
 PER A=100 PER B=0 PER C=0 PER D=0 TP=-.133
 RAIN=-1

K = .158043HR TP = .133000HR K/TP RATIO = 1.188293 SHAPE CONSTANT, N = 2.988024
UNIT PEAK = 13.858 CFS UNIT VOLUME = .9988 B = 280.84 P60 = 2.1400
AREA = .006563 SQ MI IA = .65000 INCHES INF = 1.67000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .030000

*S
PRINT HYD ID=1 CODE=10

PARTIAL HYDROGRAPH 101.10

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	.900	.0	1.800	2.0	2.700	.2	3.600	.0
.300	.0	1.200	.0	2.100	.6	3.000	.1	3.900	.0
.600	.0	1.500	7.8	2.400	.3	3.300	.0	4.200	.0

RUNOFF VOLUME = .65630 INCHES = .2297 ACRE-FEET
PEAK DISCHARGE RATE = 7.94 CFS AT 1.530 HOURS BASIN AREA = .0066 SQ. MI.

*S
*-----
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*S
*S COMPUTE RUNOFF FOR HISTORICAL CONDITIONS - ON-SITE BASIN
*S
*-----

*S
*S BASIN A
COMPUTE NM HYD ID=2 HYD NO= 102.1 DA=0.000516 SQ MI
 PER A=100 PER B=0 PER C=0 PER D=0 TP=-.133
 RAIN=-1

K = .158043HR TP = .133000HR K/TP RATIO = 1.188293 SHAPE CONSTANT, N = 2.988024
UNIT PEAK = 1.0896 CFS UNIT VOLUME = .9867 B = 280.84 P60 = 2.1400
AREA = .000516 SQ MI IA = .65000 INCHES INF = 1.67000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .030000

*S
PRINT HYD ID=2 CODE=10

PARTIAL HYDROGRAPH 102.10

TIME	FLOW	TIME	FLOW	TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	CFS	HRS	CFS	HRS	CFS	HRS	CFS	HRS	CFS
.000	.0	.900	.0	1.800	.2	2.700	.0		
.300	.0	1.200	.0	2.100	.0	3.000	.0		
.600	.0	1.500	.6	2.400	.0				

RUNOFF VOLUME = .65630 INCHES = .0181 ACRE- FEET
 PEAK DISCHARGE RATE = .63 CFS AT 1.530 HOURS BASIN AREA = .0005 SQ. MI.

*S
 *S BASIN B
 COMPUTE NM HYD ID=3 HYD NO= 103.1 DA=0.001812 SQ MI
 PER A=100 PER B=0 PER C=0 PER D=0 TP=-.133
 RAIN=-1

K = .158043HR TP = .133000HR K/TP RATIO = 1.188293 SHAPE CONSTANT, N = 2.988024
 UNIT PEAK = 3.8262 CFS UNIT VOLUME = .9961 B = 280.84 P60 = 2.1400
 AREA = .001812 SQ MI IA = .65000 INCHES INF = 1.67000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .030000

PRINT HYD ID=3 CODE=10

PARTIAL HYDROGRAPH 103.10

TIME	FLOW	TIME	FLOW	TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	CFS	HRS	CFS	HRS	CFS	HRS	CFS	HRS	CFS
.000	.0	.900	.0	1.800	.6	2.700	.0	3.600	.0
.300	.0	1.200	.0	2.100	.2	3.000	.0		
.600	.0	1.500	2.2	2.400	.1	3.300	.0		

RUNOFF VOLUME = .65630 INCHES = .0634 ACRE- FEET
 PEAK DISCHARGE RATE = 2.20 CFS AT 1.530 HOURS BASIN AREA = .0018 SQ. MI.

*S
 *-----
 *-----
 *S
 *S COMPUTE TOTAL RUNOFF TO LOUISIANA FROM IN AND OFF-SITE BASINS
 *S
 *-----
 *S TOTAL ON-SITE CONTRIBUTION TO LOUISIANA BOULEVARD
 *S
 ADD HYD ID=4 HYD NO=104.1 ID=2 ID=3
 *S
 PRINT HYD ID=4 CODE=10

PARTIAL HYDROGRAPH 104.10

TIME	FLOW	TIME	FLOW	TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	CFS	HRS	CFS	HRS	CFS	HRS	CFS	HRS	CFS
.000	.0	.900	.0	1.800	.7	2.700	.1	3.600	.0
.300	.0	1.200	.0	2.100	.2	3.000	.0		
.600	.0	1.500	2.8	2.400	.1	3.300	.0		

RUNOFF VOLUME = .65622 INCHES = .0815 ACRE- FEET
 PEAK DISCHARGE RATE = 2.83 CFS AT 1.530 HOURS BASIN AREA = .0023 SQ. MI.

*S
 *S TOTAL CONTRIBUTION TO LOUISIANA FROM ON AND OFF-SITE BASINS
 *S
 ADD HYD ID=5 HYD NO=105.1 ID=4 ID=1
 *S
 PRINT HYD ID=5 CODE=10

PARTIAL HYDROGRAPH 105.10

TIME	FLOW	TIME	FLOW	TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	CFS	HRS	CFS	HRS	CFS	HRS	CFS	HRS	CFS
.000	.0	.900	.0	1.800	2.8	2.700	.2	3.600	.0

.300	.0	1.200	.0	2.100	.8	3.000	.1	3.900	.0
.600	.0	1.500	10.6	2.400	.4	3.300	.1	4.200	.0

RUNOFF VOLUME = .65627 INCHES = .3112 ACRE-FEET
PEAK DISCHARGE RATE = 10.76 CFS AT 1.530 HOURS BASIN AREA = .0089 SQ. MI.

*S
*-----
*-----
*S
*S COMPUTE RUNOFF FOR DEVELOPED CONDITIONS
*S
*-----
*S
*S
*S BASIN A
COMPUTE NM HYD ID=6 HYD NO= 106.1 DA=0.000516 SQ MI
PER A=0 PER B=0 PER C=42.3 PER D=57.7 TP=-.133
RAIN=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 1.1781 CFS UNIT VOLUME = .9903 B = 526.28 P60 = 2.1400
AREA = .000298 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .030000

K = .108667HR TP = .133000HR K/TP RATIO = .817047 SHAPE CONSTANT, N = 4.373949
UNIT PEAK = .62260 CFS UNIT VOLUME = .9795 B = 379.38 P60 = 2.1400
AREA = .000218 SQ MI IA = .35000 INCHES INF = .83000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .030000

*S
PRINT HYD ID=6 CODE=10

PARTIAL HYDROGRAPH 106.10

TIME	FLOW	TIME	FLOW	TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	CFS	HRS	CFS	HRS	CFS	HRS	CFS	HRS	CFS
.000	.0	1.500	1.5	3.000	.0	4.500	.0	6.000	.0
.300	.0	1.800	.5	3.300	.0	4.800	.0	6.300	.0
.600	.0	2.100	.2	3.600	.0	5.100	.0		
.900	.0	2.400	.0	3.900	.0	5.400	.0		
1.200	.0	2.700	.0	4.200	.0	5.700	.0		

RUNOFF VOLUME = 1.90483 INCHES = .0524 ACRE-FEET
PEAK DISCHARGE RATE = 1.46 CFS AT 1.500 HOURS BASIN AREA = .0005 SQ. MI.

*S
*S BASIN B
COMPUTE NM HYD ID=7 HYD NO= 107.1 DA=0.001812 SQ MI
PER A=0 PER B=0 PER C=53.8 PER D=46.2 TP=-.133
RAIN=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 3.3125 CFS UNIT VOLUME = .9962 B = 526.28 P60 = 2.1400
AREA = .000837 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .030000

K = .108667HR TP = .133000HR K/TP RATIO = .817047 SHAPE CONSTANT, N = 4.373949
UNIT PEAK = 2.7807 CFS UNIT VOLUME = .9953 B = 379.38 P60 = 2.1400
AREA = .000975 SQ MI IA = .35000 INCHES INF = .83000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .030000

PRINT HYD ID=7 CODE=10

PARTIAL HYDROGRAPH 107.10

TIME	FLOW	TIME	FLOW	TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	CFS	HRS	CFS	HRS	CFS	HRS	CFS	HRS	CFS
.000	.0	1.500	4.9	3.000	.0	4.500	.0	6.000	.0
.300	.0	1.800	1.6	3.300	.0	4.800	.0	6.300	.0

.600	.0	2.100	.7	3.600	.0	5.100	.0
.900	.0	2.400	.2	3.900	.0	5.400	.0
1.200	.1	2.700	.1	4.200	.0	5.700	.0

RUNOFF VOLUME = 1.78207 INCHES = .1722 ACRE-FEET
PEAK DISCHARGE RATE = 4.86 CFS AT 1.500 HOURS BASIN AREA = .0018 SQ. MI.

*S
*-----
*-----
*S
*S COMPUTE TOTAL RUNOFF TO LOUISIANA FROM IN AND OFF-SITE BASINS
*S
*-----
*S
*S ON-SITE CONTRIBUTION TO LOUISIANA BOULEVARD
*S
PRINT HYD ID=6 CODE=10

PARTIAL HYDROGRAPH 106.10

TIME	FLOW	TIME	FLOW	TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	CFS	HRS	CFS	HRS	CFS	HRS	CFS	HRS	CFS
.000	.0	1.500	1.5	3.000	.0	4.500	.0	6.000	.0
.300	.0	1.800	.5	3.300	.0	4.800	.0	6.300	.0
.600	.0	2.100	.2	3.600	.0	5.100	.0		
.900	.0	2.400	.0	3.900	.0	5.400	.0		
1.200	.0	2.700	.0	4.200	.0	5.700	.0		

RUNOFF VOLUME = 1.90483 INCHES = .0524 ACRE-FEET
PEAK DISCHARGE RATE = 1.46 CFS AT 1.500 HOURS BASIN AREA = .0005 SQ. MI.

*S
*S TOTAL CONTRIBUTION TO LOUISIANA FROM ON AND OFF-SITE BASINS
*S
ADD HYD ID=8 HYD NO=108.1 ID=7=4 ID=1
*S
PRINT HYD ID=8 CODE=10

PARTIAL HYDROGRAPH 108.10

TIME	FLOW	TIME	FLOW	TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	CFS	HRS	CFS	HRS	CFS	HRS	CFS	HRS	CFS
.000	.0	1.500	7.6	3.000	.1	4.500	.0	6.000	.0
.300	.0	1.800	2.4	3.300	.0	4.800	.0	6.300	.0
.600	.0	2.100	.9	3.600	.0	5.100	.0		
.900	.0	2.400	.3	3.900	.0	5.400	.0		
1.200	.1	2.700	.1	4.200	.0	5.700	.0		

RUNOFF VOLUME = 1.14891 INCHES = .2537 ACRE-FEET
PEAK DISCHARGE RATE = 7.65 CFS AT 1.500 HOURS BASIN AREA = .0041 SQ. MI.

*S
FINISH

NORMAL PROGRAM FINISH END TIME (HR:MIN:SEC) = 13:44:10

```

START                TIME=0.0 0 -6
*S      COMPUTE 100 YR. 6 HR. HYDROGRAPHS FOR Tierra Oeste Subdivision
*S      FS20.DAT      -      HYMO PER JAN 1993 DPM REVISIONS
+~

*S BASIN 2 RUNOFF ANALYSIS POINT (A.P) AT
*-----
*-----
RAINFALL              TYPE=-1  RAIN QUAR=0 RAIN ONE=2.14 RAIN SIX=2.60
                        RAIN DAY=3.10 DT=0.03
*-----
*-----
*S
*S COMPUTE RUNOFF FOR HISTORICAL CONDITIONS - OFF-SITE BASIN
*S
*-----
*S
*S
*S  BASIN OFF-SITE
COMPUTE NM HYD        ID=1    HYD NO= 101.1    DA=0.006563 SQ MI
                        PER A=100 PER B=0 PER C=0    PER D=0 TP=-.133
                        RAIN=-1
*S
PRINT HYD              ID=1          CODE=10
*S
*-----
*-----
*S
*S COMPUTE RUNOFF FOR HISTORICAL CONDITIONS - ON-SITE BASIN
*-----

*S
*S  BASIN A
COMPUTE NM HYD        ID=2    HYD NO= 102.1    DA=0.000516 SQ MI
                        PER A=100 PER B=0 PER C=0    PER D=0 TP=-.133
                        RAIN=-1
*S
PRINT HYD              ID=2          CODE=10
*S
*S  BASIN B
COMPUTE NM HYD        ID=3    HYD NO= 103.1    DA=0.001812 SQ MI
                        PER A=100 PER B=0 PER C=0    PER D=0 TP=-.133
                        RAIN=-1
PRINT HYD              ID=3          CODE=10
*S
*-----
*-----
*S
*S COMPUTE TOTAL RUNOFF TO LOUISIANA FROM IN AND OFF-SITE BASINS
*S
*-----
*S TOTAL ON-SITE CONTRIBUTION TO LOUISIANA BOULEVARD
*S
ADD HYD                ID=4    HYD NO=104.1 ID=2    ID=3
+~
PRINT HYD              ID=4    CODE=10
*S
*S TOTAL CONTRIBUTION TO LOUISIANA FROM ON AND OFF-SITE BASINS
*S
ADD HYD                ID=5    HYD NO=105.1 ID=4    ID=1

```

*S

PRINT HYD ID=5 CODE=10

*S

*S

*S COMPUTE RUNOFF FOR DEVELOPED CONDITIONS

*S

*S

*S

*S BASIN A

COMPUTE NM HYD

ID=6 HYD NO= 106.1 DA=0.000516 SQ MI

PER A=0 PER B=0 PER C=42.3 PER D=57.7 TP=-.133

RAIN=-1

*S

```
PRINT HYD          ID=6      CODE=10
*S
*S  BASIN B
COMPUTE NM HYD      ID=7      HYD NO= 107.1    DA=0.001812 SQ MI
PER A=0 PER B=0 PER C=53.8  PER D=46.2 TP=-.133
RAIN=-1
PRINT HYD          ID=7      CODE=10
*S
*-----
*-----
*S
*S COMPUTE TOTAL RUNOFF TO LOUISIANA FROM IN AND OFF-SITE BASINS
*S
*-----
*S
*S ON-SITE CONTRIBUTION TO LOUISIANA BOULEVARD
*S
PRINT HYD          ID=6      CODE=10
*S
*S TOTAL CONTRIBUTION TO LOUISIANA FROM ON AND OFF-SITE BASINS
*S
ADD HYD             ID=8      HYD NO=108.1 ID=7=4 ID=1
*S
PRINT HYD          ID=8      CODE=10
*S
FINISH
```

APPENDIX B

SIDEWALK CULVERT ON SIGNAL

$$Q_{100} = 1.9 \text{ cfs} \quad \text{TRY 3-2' WIDE CULVERTS}$$

$$\text{HORIZONTAL WEIR} \quad Q = CLH^{3/2} + \frac{V^2}{2g}$$

$$V = 2 \text{ fps (Sheet Flow)} \quad C = 2.6 \text{ (Broderick King)}$$

$$H = .67/2 = 0.33'$$

$$L = 2' + .67 + .67$$

$$Q_{\text{CAP/BOX}} = 2.6(3.3)(0.33)^{3/2} + \frac{2^2}{2 \times 32.2}$$

$$= 1.7 \text{ cfs/box}$$

$$\# \text{ Boxes Required} = \frac{1.9}{1.7} = 4.6$$

Use 5- 2' wide boxes

SIDEWALK CULVERTS ON LOUISIANA

$$Q_{100} = 4.9 \text{ cfs}$$

Assume Q is evenly distributed to each of
2 boxes

$$Q = 4.9/2 = 2.45 \text{ cfs}$$

see above

$$\# \text{ boxes needed} = \frac{2.45}{1.7} = 1.4 \text{ boxes}$$

Use 2- 2' wide boxes

STORM INLET ANALYSIS

THE EAGLE ROCK SUBDIVISION - THE APPROVED
MASTER PLAN DETERMINED $Q_{100} = 57 \text{ cfs}$
@ SIGNAL & LOUISIANA.

ASSUME $1/2$ OF FLOW IS ON SOUTH SIDE OF
STREET.

$$\therefore Q_{DES} = 57/2 = 28.5 \text{ cfs}$$

PER DPM Plate 22.3 D-3

$$d = 0.54' \quad S = 2.5\% \quad (\text{SIGNAL})$$

$$\text{Type 'A' Inlet } Q_i = 9.5 \text{ cfs (Plate 22.3 D-5)}$$

$$Q_b = 28.5 - 9.5 = 19 \text{ cfs}$$

$$d = 0.62' \quad S = .5\% \quad (\text{LOUISIANA (Plate 22.3 D-4)})$$

$$\text{-Type Double 'C' } Q_i = 9.8 \text{ cfs (Plate 22.3 D-6)}$$

$$Q_b = 19 - 9.8 = 9.2 \text{ cfs}$$

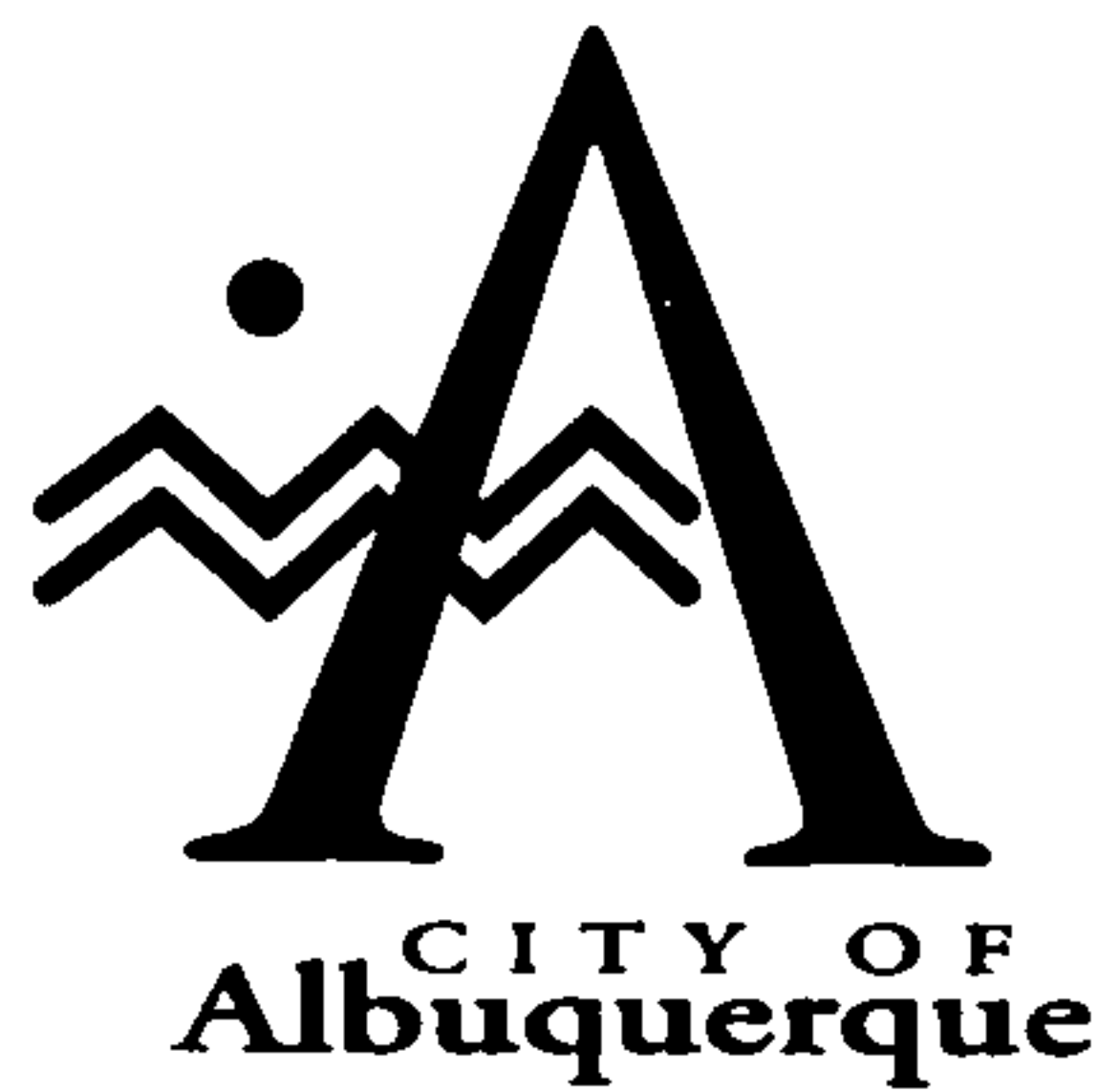
$$d = 0.50 \quad S = .5\% \quad (\text{LOUISIANA (Plate 22.3 D-4)})$$

$$\text{Type Double 'C' } Q_i = 7.8 \text{ cfs (Plate 22.3 D-6)}$$

$$Q_b = 9.2 - 7.8 = 1.4 \text{ cfs}$$

→ Use 'A' ON SIGNAL

→ Use 3 - Double 'C' on LOUISIANA



Martin J. Chávez, Mayor

December 1, 1997

Lawrence D. Read
Larry Read & Associates
P.O. Box 90233
Albuquerque, New Mexico 87199

RE: REVISED DRAINAGE PLAN FOR FIRESTATION 20 (C19-D20) REVISION DATED
11/24/97

Dear Mr. Read:

Based on the information provided on your November 4, 1997 resubmittal, the above referenced site is approved Site Development Plan.

Please be advised that prior to Building Permit approval, the items listed on my last letter will need to be addressed.

If I can be of further assistance, please feel free to contact me at 924-3986.

C: Andrew Garcia

File

Sincerely

Bernie J. Montoya CE
Associate Engineer

Good for You, Albuquerque!



LARRY READ & ASSOCIATES

Civil Engineers
Site • Drainage • Utility Design

November 22, 1997

Mr. Bernie Montoya
City of Albuquerque
P. O. Box 1293
Albuquerque, New Mexico 87103

RE: Fire Station 20 - Case C19-D20

Dear Bernie:

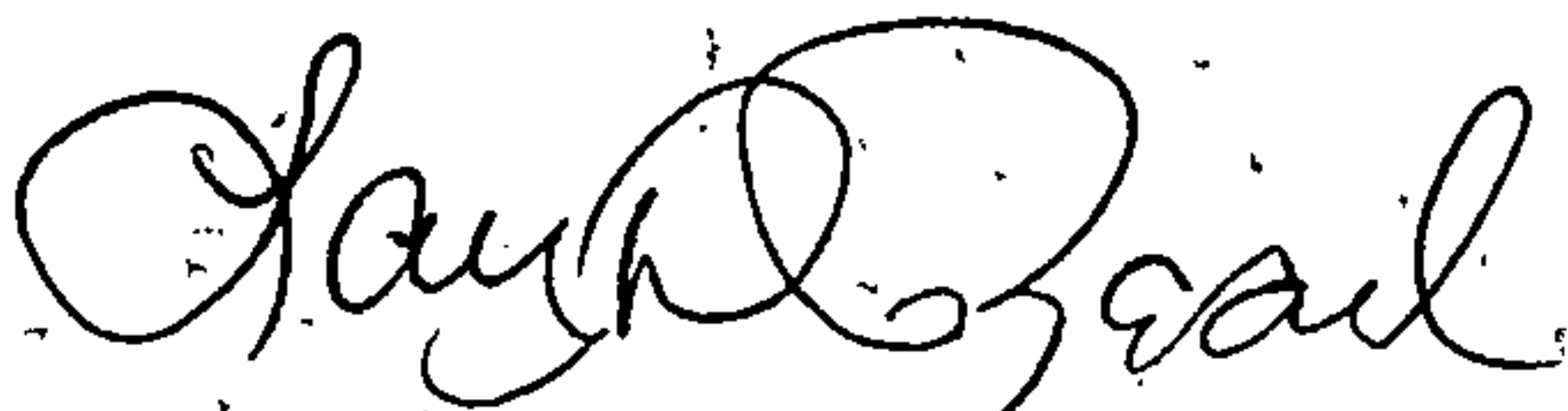
Thank you for your comments dated November 17, 1997. I have attempted to revise the Drainage Report and Grading Plan to address your concerns. Specifically, I have tried to clarify the inlets on Louisiana and addressed the sidewalk culvert and sediment issues on Signal.

The inlets on proposed on the master plan were assumed to be located at the intersection of Louisiana and Signal. In order to comply with the intent of the master plan without excessive cost to this project, I have proposed to move the inlets to Louisiana along the west property line of this site.

Your comments regarding obtaining Building Permit approval are also appreciated and will be a great help in completing the project. I hesitate to prepare and submit the final plan since I have not received comments from the Fire Department regarding this submittal and I have not received the new geometry criteria from the Fire Department. When I have their input, I will complete the project keeping your comments and concerns in mind.

If you have any question or comments, please call me at 857-0863.

Sincerely,
LARRY READ & ASSOCIATES



Larry D. Read, PE