# **CITY OF ALBUQUERQUE**



Richard J. Berry, Mayor

April 28, 2017

Ron Hensley, P.E. THE Group 300 Branding Iron Rd. SE Rio Rancho, NM 87124

RE: Oakland Heights Subdivision 7420 Oakland Ave. NE Engineer's Certification Date: 4/24/17 Hydrology File: C19D063

Dear Mr. Hensley:

Based on the information provided in your submittal received 4/26/17, the Engineer's Certification is approved for ROFG/SIA for Hydrology.

PO Box 1293

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

Albuquerque

Sincerely,

New Mexico 87103

www.cabq.gov

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



# City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

| Project Title:                        | Building Permit #:      | City Drainage #:       |
|---------------------------------------|-------------------------|------------------------|
| DRB#: EPC#:                           |                         | Work Order#:           |
| Legal Description:                    |                         |                        |
| City Address:                         |                         |                        |
| Engineering Firm:                     |                         | Contact:               |
| Address:                              |                         |                        |
| Phone#: Fax#:                         |                         | E-mail:                |
| Owner:                                |                         | Contact:               |
| Address:                              |                         |                        |
| Phone#: Fax#:                         |                         | E-mail:                |
| Architect:                            |                         | Contact:               |
| Address:                              |                         |                        |
| Phone#: Fax#:                         |                         | E-mail:                |
| Surveyor:                             |                         | Contact:               |
| Address:                              |                         |                        |
| Phone#: Fax#:                         |                         | E-mail:                |
| Contractor:                           |                         | Contact:               |
| Address:                              |                         |                        |
| Phone#: Fax#:                         |                         | E-mail:                |
| TYPE OF SUBMITTAL:                    | CHECK TYPE OF APPROV    | AL/ACCEPTANCE SOUGHT:  |
| DRAINAGE REPORT                       | SIA/FINANCIAL GUARAN    | TEE RELEASE            |
| DRAINAGE PLAN 1st SUBMITTAL           | PRELIMINARY PLAT APPI   | ROVAL                  |
| DRAINAGE PLAN RESUBMITTAL             | S. DEV. PLAN FOR SUB'D  | APPROVAL               |
| CONCEPTUAL G & D PLAN                 | S. DEV. FOR BLDG. PERMI | IT APPROVAL            |
| GRADING PLAN                          | SECTOR PLAN APPROVAL    | _                      |
| EROSION & SEDIMENT CONTROL PLAN (ESC) | FINAL PLAT APPROVAL     |                        |
| ENGINEER'S CERT (HYDROLOGY)           | CERTIFICATE OF OCCUPA   | ANCY (PERM)            |
| CLOMR/LOMR                            | CERTIFICATE OF OCCUPA   | ANCY (TCL TEMP)        |
| TRAFFIC CIRCULATION LAYOUT (TCL)      | FOUNDATION PERMIT AP    | PROVAL                 |
| ENGINEER'S CERT (TCL)                 | BUILDING PERMIT APPRO   | DVAL                   |
| ENGINEER'S CERT (DRB SITE PLAN)       | GRADING PERMIT APPRO    | VAL SO-19 APPROVAL     |
| ENGINEER'S CERT (ESC)                 | PAVING PERMIT APPROV    | AL ESC PERMIT APPROVAL |
| SO-19                                 | WORK ORDER APPROVAL     | ESC CERT. ACCEPTANCE   |
| OTHER (SPECIFY)                       | GRADING CERTIFICATION   | N OTHER (SPECIFY)      |
| WAS A PRE-DESIGN CONFERENCE ATTENDED: | Yes No Co               | ppy Provided           |
| DATE SUBMITTED:                       | By:                     |                        |

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



April 25, 2017

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

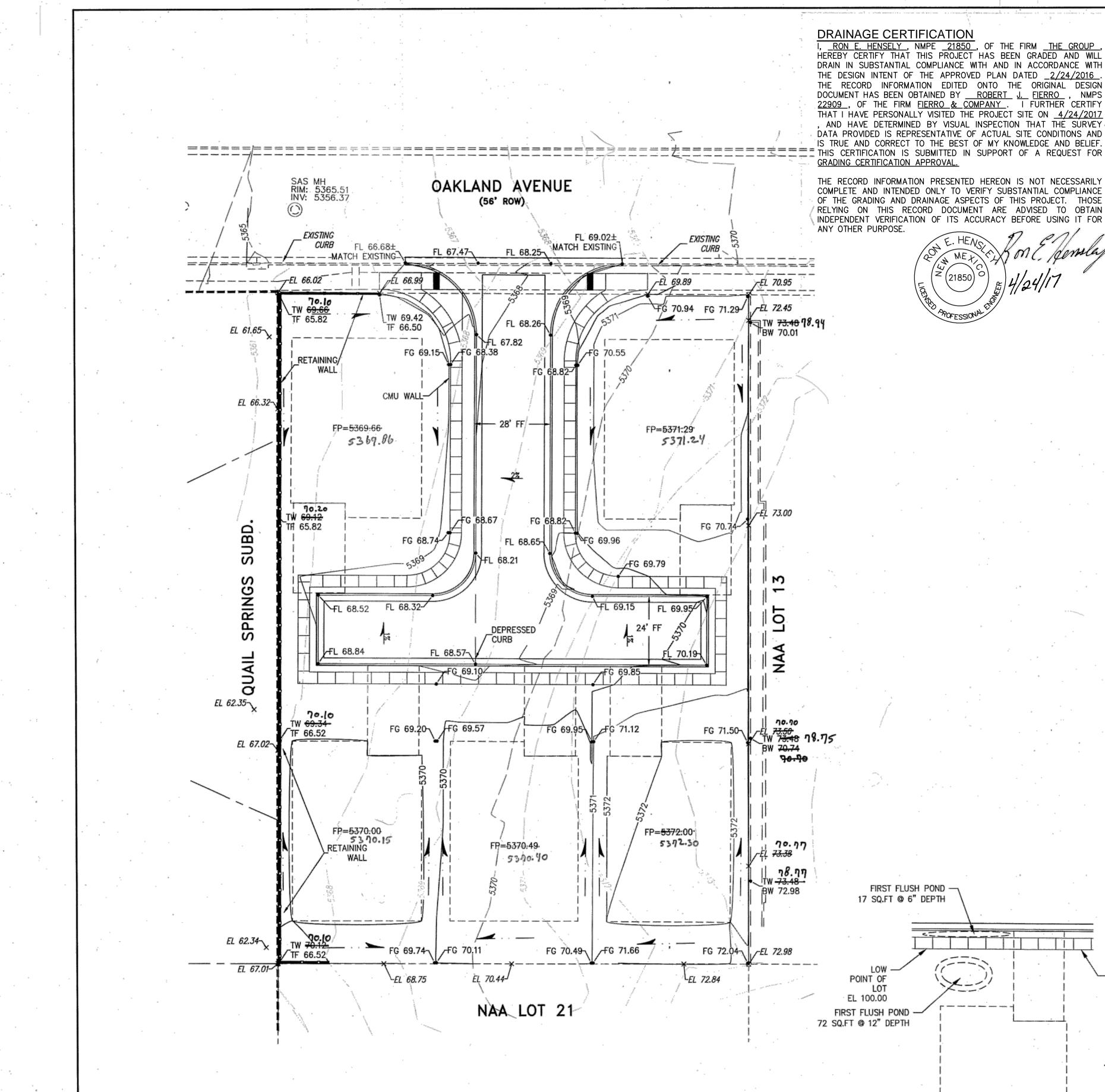
Re: C19D063 - Oakland Heights Subdivision Drainage Certification

The as built Grading Plan for the above site is attached. The subdivision is a replat of "LOT 12, BLOCK 3, UNIT 3, TRACT 2, NORTH ALBUQUERQUE ACRES". The drainage from and within the subdivision perform as designed, and all grades inside the subdivision do not deviate by more than 18" of the DRB approved grades within 50 feet of the subdivision's perimeter. The pad elevations of all lots have been verified.

We are requesting a review for Grading Certification Approval. Please contact me at 410-1622 or via email if you have any questions or comments.

Sincerely Hensle Ron E. Hensley P.E.

ron@thegroup.cc



SCALE



\_ \_ \_ \_ \_ \_ \_

\_EL 70.95

ТW <del>73.48</del>**78.94** ВW 70.01

-EL 73.00

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NA

70.70

(<sup>EL</sup> 7<del>3.50</del> TW 7<del>3.48</del> **η8.75** BW <del>70.74</del>

90.96

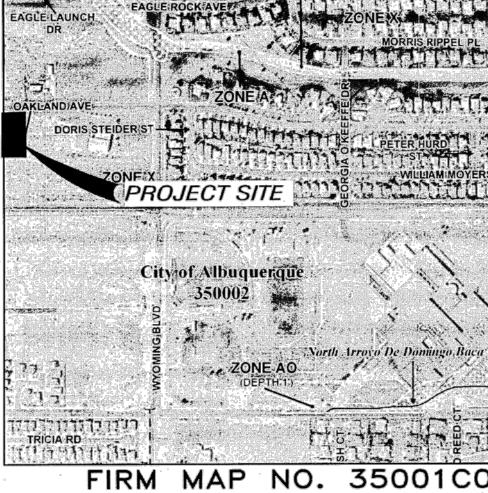
70.17

,-ĖĻ <del>73.38</del> ̇́

<u>\_RON\_E. HENSELY\_, NMPE \_21850</u>, OF THE FIRM \_THE\_GROUP HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED <u>2/24/2016</u> THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY <u>ROBERT</u> J. FIERRO , NMPS 22909, OF THE FIRM FIERRO & COMPANY. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON <u>4/24/2017</u> AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE SURVEY DATA PROVIDED IS REPRESENTATIVE OF ACTUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. GRADING CERTIFICATION APPROVAL.

THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THIS PROJECT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

Kenslar



# DRAINAGE INFORMATION LOCATION & DESCRIPTION

THE PROPOSED SITE IS 0.72 ACRES LOCATED ON THE SOUTH SIDE OF OAI BLVD. AS SEEN ON THE VICINITY MAP. THE SITE WAS DEVELOPED AS AN ADJACENT PROPERTIES TO THE WEST ARE DEVELOPED HIGHER DENSITY W THE CONSTRUCTION OF A GROUP LIVING SITE. THE PROPOSED DEVELOPM RESIDENTIAL LOTS ON A CUL-DE-SAC.

# FLOODPLAIN STATUS

THIS PROJECT, AS SHOWN ON FEMA'S FLOOD INSURANCE RATE MAP 3500 NOT WITHIN A DESIGNATED 100-YEAR FLOODPLAIN. AN EXHIBIT WITH THE INCLUDED ON THIS SHEET.

#### METHODOLOGY

THE HYDROLOGY FOR THIS PROJECT WAS ANALYZED USING AHYMO SOFTW.

# PRECIPITATION

THE 100-YR 6-HR DURATION STORM WAS USED AS THE DESIGN STORM SITE IS WITHIN ZONE 3 AS IDENTIFIED IN THE CITY OF ALBUQUERQUE DEV MANUAL, SECTION 22.2.

### EXISTING DRAINAGE

THE SITE IS WITHIN THE AREA OF THE NORTH A ALBUQUERQUE ACERS D DRAINAGE WHICH ENTERED THE SITE FROM THE EAST HAS BEEN DIVERTED AND WALL (SEE C19D062). NO OTHER ADJACENT PROPERTIES DRAIN TO PERCENTAGES OF THAT STUDY ARE UTILIZED IN THE ANALYSIS LISTED BE EXISTING CURB AND GUTTER IN OAKLAND AVENUE.

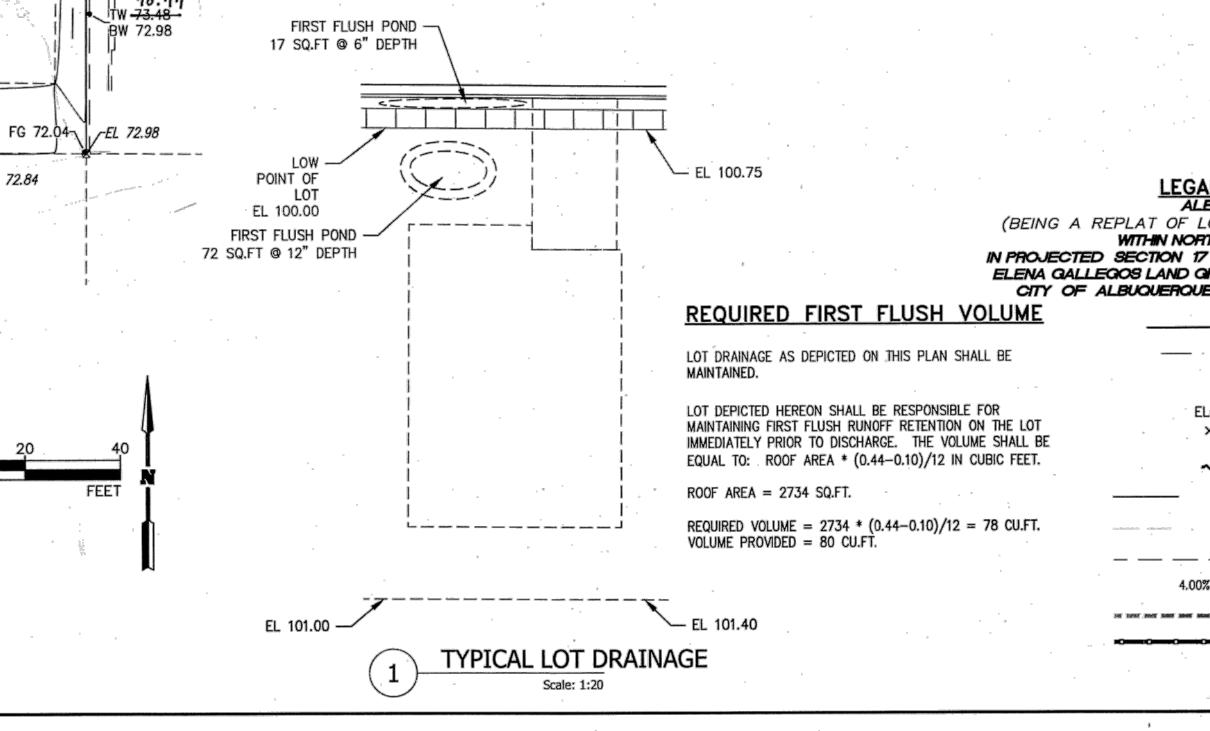
# DEVELOPED CONDITION

THIS SITE WILL BE DEVELOPED WITH A SINGLE STREET INTERCEPTING ALL WILL FREE DISCHARGE INTO OAKLAND AVENUE. OAKLAND AVENUE WILL INLETS LOCATED WEST OF THE SITE IN OAKLAND AVENUE. THE 0.16 CFS RUNOFF, DUE TO THIS DEVELOPMENT IS INSIGNIFICANT AND WILL HAVE MIN FACILITIES. 

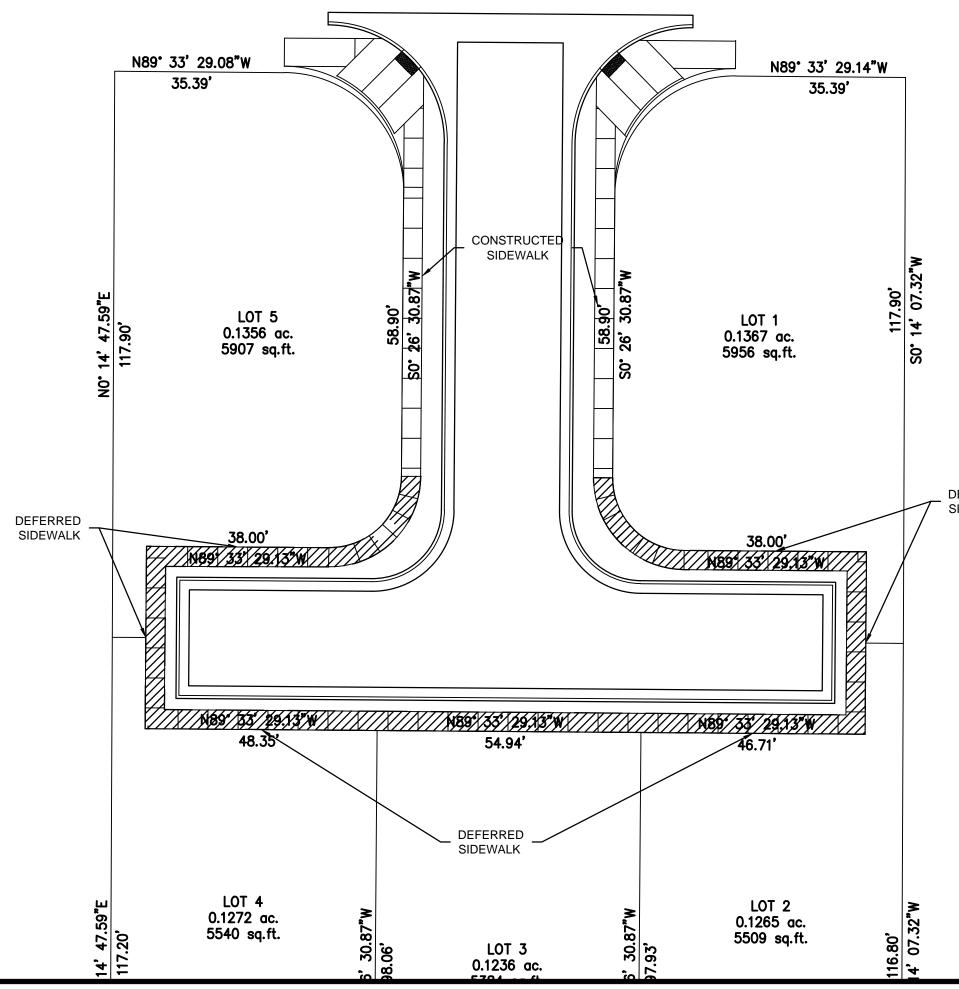
|     | HYDROI | LOGIC           | DATA | — N  | AADMI               | ,  |                    |   |
|-----|--------|-----------------|------|------|---------------------|----|--------------------|---|
|     | BASINS | AREA<br>(acres) | PI   |      | EATMENT<br>ES BY TY | PE | 'YIELD<br>(cfs/ac) |   |
| 0 8 |        |                 | A    | В    | C                   | D  |                    |   |
|     | A      | 0.72            | 0    | . 25 | 15                  | 50 | 4.05               | : |

# HYDROLOGIC DATA - PROPOSED

| BASINS AREA<br>(gcres) | PI   | YIELD<br>(cfs/ac) | 9 |    |    |      |     |
|------------------------|------|-------------------|---|----|----|------|-----|
|                        |      | A                 | В | C  | D. |      | . ` |
| A .                    | 0.72 | 0                 | 0 | 45 | 55 | 4.28 | 3   |



|  | · ·                             |  |                             |                        |           |           |               |                |              |                  |                  |               |        |
|--|---------------------------------|--|-----------------------------|------------------------|-----------|-----------|---------------|----------------|--------------|------------------|------------------|---------------|--------|
|  |                                 | ADDA<br>BILLA<br>TRAILS  |                             |                        | Nc        | . •       | Izell         |                |              | NO!              | 2<br>2           |               |        |
|  |                                 |  |                             |                        | A TIC     | D         | CDATE II      | DATE           | DATE         | DATE             | DATE             |               |        |
|  |                                 |  |                             |                        | IRM,      | •         | voen ti       |                |              | NAC-             |                  |               |        |
|  |                                 |  |                             |                        | NFC       | 0         | 00            |                |              | IVIC             |                  |               | 0      |
|  |                                 |  |                             |                        | T /       |           | 59200         |                | •            | 11 14            | ILIM             |               | G      |
|  |                                 |  | RO                          |                        | BUIL      | 2         | s U<br>B      | BY             | I BY         |                  |                  |               |        |
|  |                                 |  | ECT S                       |                        | 1S        | ONTRACTOR | D BY          | TANCE          | CATION       |                  |                  | 1 1           |        |
|  |                                 |  |                             | 59- 1 20               | 1         | CONTR     | WORK<br>STAKE | NSPE(<br>ACCEP | VERIFI(      | CORRE            | RECORDED         | NO            |        |
|  |                                 |  | Lacufu                      | HEN SCHOR              |           |           |               | °              |              |                  |                  |               |        |
|  |                                 |  | isel for a rest s           | SHOT PAND SUP          | •         | LEFT      | ρ             |                | Ь            | APPPROXIMATE     |                  |               |        |
|  |                                 |  |                             | 1-0-1-0                |           | TURN      | MILES         | 4"             | BACK         | PROY             |                  | D 83)         |        |
|  |                                 |  |                             |                        |           | NE, T     | 1.0 M         | 1 3/           | ш            |                  | W                | 3 (NAD        |        |
|  |                                 |  |                             |                        | S         | VARD 1    | ARD           | A SI           | 띷            | 티크               | 14               | 745.68        |        |
| D141G  | VICIN                           | ITY MAP C-19   | -Z                          | р 0                    | ARK       | BOULEV    | BOULEVARD     |                | ц.           | - 1-             | 3   <sup>e</sup> | =15477        |        |
|  | NOTES                           |  | a                           | 0                      | I M       | 0         |               | BENCHMARK      | 3            |                  |                  | Υ=1           |        |
|  | THE ENGINEER                    | HAS UNDERTAKEN LIMITED FIELD<br>TH, SIZE, OR TYPE OF EXISTING U                                    | INDERGROUN                  | ID UTILITY             | VCH       | NIWO      | YOMING        | EBE            | 불            | ARD, N           |                  | 5.03          | 38)    |
| AKLAND AVENUE WEST OF WYOMING<br>ATHLETIC FIELD AND BUILDINGS. THE     | RESPONSIBILITY                  | NO REPRESENTATION PERTAINING T<br>OR LIABILITY THEREFORE. THE (<br>LOCATION OF ANY UTILITY LINE II | CONTRACTOR                  |                        | BEI       | M N       | IOYW NC       | F              | 2            | OULEV            |                  | (=1547745.    | D 1988 |
| ALLED COMMUNITY. TO THE EAST IS<br>IENT WILL BE FIVE (5) SINGLE FAMILY | THE WORK IN<br>CONTRACTOR IS    | ADVANCE OF AND DURING EXCAVA<br>5 FULLY RESPONSIBLE FOR ANY A<br>TO LOCATE, IDENTIFY, AND PRE      | TION WORK.<br>ND ALL DAN    | AGE CAUSED             |           |           |               | IE NE.         | IXO4:        | NG B             | MANHOLE LID      | X=15          | (NAVD  |
|  | EXISTING UTILIT<br>STATUTES, MU | IES. THE CONTRACTOR SHALL CO<br>INICIPAL AND LOCAL ORDINANCES,                                     | MPLY WITH<br>RULES AND      | STATE<br>REGULATIONS   |           | 0-C18     |               | AVENUE I       | ISK E        | WYOMING BOULEVAR | ERM              | 89"           |        |
| · · · · · · · · · · · · · · · · · · ·                                  | PLANNING AND                    | THE LOCATION OF THESE LINES A<br>CONDUCTING EXCAVATION, WHETH<br>UTILITIES, COMPLYING WITH "BLUE   | ER BY CALL                  | ING OR                 |           | BM 20     | TRAVEL        | STO A          | LIC D        |                  | A SEWER          | 8".19         | 5393.  |
| DICO141 G, DATED APRIL 2, 2002 IS<br>E SITE SHOWN ON THE FIRM PANEL IS | OR OTHERWISE                    |  | •                           |                        |           | ACS E     | DUN           | 10DES          | <b>IETAL</b> | CURB OF WY       | STORM            | 20-C18".1989" | LEV=   |
| • •  |                                 | SAFETY WHICH SHALL REMAIN TH   |                             |                        |           | -         |               | 61-            | 2            |                  |                  | ~             |        |
| VAPE   | ARE INTENDED                    | T, AND THE IDEAS AND DESIGNS<br>FOR USE ON THIS PROJECT AND  | IS NOT TO                   | BE USED, IN            |           |           | DAT           | 3-23           |              |                  |                  |               |        |
| VARE.  | WHOLE OR IN<br>AUTHORIZATION    | PART, FOR ANY OTHER PROJECT<br>OF GND ENGINEERING, LLC IN TH<br>USE, THE USER ASSUMES ALL RI       | WITHOUT THI                 | E WRITTEN              | TION      |           | $\square$     | resh           |              |                  |                  |               |        |
| FOR THIS ANALYSIS. THIS  | WHICH RESULT                    | S.   |                             | 2                      | WA 7      | Ш<br>N    |               | 03/2           |              |                  |                  |               |        |
| ELOPMENT PROCESS   | 1. ALL WORK                     | DETAILED ON THESE PLANS T  |                             |                        | -ORM      | 101       |               | to (con        |              | •                |                  |               |        |
|  | PROVIDED HE                     | CONTRACT SHALL, EXCEPT AS<br>REIN, BE CONSTRUCTED IN AC<br>IQUERQUE STANDARD SPECIFIC              | CORDANCE                    | WITH THE               | Ň         |           | m             | 8              |              |                  |                  |               |        |
| RAINAGE MASTER PLAN. HISTORIC  |                                 | TRUCTION, 1986 EDITION, UPD  |                             |                        | 百く        |           |               | & 0.4          | J.           |                  |                  |               |        |
| TO OAKLAND AVE. BY DEVELOPMENT<br>THIS SITE. THE LAND USE              |                                 | SION PROTECTION SPECIFIED O<br>OMMENDED, THE OWNER IS EN   |                             |                        | SURV      |           | Ū             | sbuil.         |              |                  |                  |               |        |
| LOW. THIS SITE DRAINS TO THE   | INCORPORATE                     | EROSION RESISTANT LANDSC   | APING ON                    | AREAS WHERE            | S         |           |               | 4              | 0            |                  |                  |               | 0      |
| •<br>•   | EROSION CON                     | LE FOR THE INSTALLATION AN<br>TROL FEATURES NECESSARY  |                             |                        |           | 2         | NO<br>Z       |                |              | Į,               |                  |               | o      |
| OF THE SITE RUNOFF. THE RUNOFF<br>CONVEY FLOW ALONG THE CURB TO        |                                 | T OF THE GRADING PLAN.   |                             |                        |           |           | · · ·         | °              | -            | 10               |                  | <u> </u>      |        |
| S INCREASE, FOR THE 100-YEAR PEAK<br>INIMAL IMPACT ON DOWNSTREAM       |                                 | AGE INFRASTRUCTURE SHOWN<br>Y OF THE PROPERTY OWNER.   | UN THIS I                   | PLAN IS ITE            | SEA       |           |               | 6              | 1            | ER               | NON              | , _<br>       | ζ.     |
|  |                                 | RBED AREAS OUTSIDE THE BU  | ILDING PAE                  | ) MUST BE              | ŝ         |           |               |                |              | 5                | Ø,               |               |        |
| Q100 V100-24<br>(cfs) (acft)   | 5. TWO (2) V                    | VORKING DAYS PRIOR TO ANY  | EXCAVATIO                   | N,                     | ENGINEER  | 8         | 14            | . ۲ د          | 1.           | 276990           | J.               | \$F           | 6      |
| (cfs) (acft)<br>2.90 0.106   |                                 | MUST CONTACT LINE LOCATING<br>OF EXISTING UTILITIES.   | SERVICE,                    | (260–1990)             | <u>SN</u> |           |               | 102            | Ner V        | 1                |                  | EAR           | Ĵ.     |
|  |                                 | CONSTRUCTION, THE CONTRAC  |                             |                        | ГЦ<br>Ц   |           |               |                | _            | No.              | K                |               |        |
| • •  | OBSTRUCTION                     | THE HORIZONTAL AND VERTICAL<br>S AND EXISTING PAVEMENT.  | SHOULD A                    | CONFLICT               | 1_        |           |               |                |              |                  | <u> </u>         |               |        |
| Q100 V100-24<br>(cfs) (acft)   |                                 | ONTRACTOR SHALL NOTIFY THE<br>D_THAT THE CONFLICT CAN BE   |                             |                        |           |           |               |                | B            |                  | 2015             | 2016          | 016    |
| 3.06 0.112   |                                 | CONTROL NOTES  |                             |                        |           |           |               |                |              | 8                |                  |               | i      |
|  | 1. CONTRACT                     | OR IS RESPONSIBLE FOR OBTAIL   |                             | OPSOIL                 |           |           |               |                |              |                  | E NOV            |               |        |
|  |                                 | OR IS RESPONSIBLE FOR MAIN   | ITAINING R                  | UN-OFF ON              |           |           |               |                |              |                  | DATE             | DATE          | DAT    |
| 5a<br>1  |                                 | NG CONSTRUCTION.   |                             | SEDIMENT               |           |           |               |                | S            |                  |                  |               |        |
|  |                                 | OR IS RESPONSIBLE FOR CLEA<br>S INTO EXISTING RIGHT-OFW  |                             | SEDIMENT               | •         |           |               |                | RX<br>N      | S                |                  |               |        |
| •<br>• • •   |                                 | F DAMAGED FACILITIES AND CLATIONS ON ADJACENT PROPER   |                             |                        |           |           |               |                | MA           | NO               | CN               | 0             |        |
| · · · ·  | FACILITES                       | IS THE RESPONSIBILITY OF TH  | IE CONTRA                   | CTOR.                  |           |           |               |                |              | REVISIONS        | JESI             |               |        |
| L DESCRIPTION  | WIND AND                        | SED EARTH SURFACES MUST E<br>WATER EROSION PRIOR TO FI   |                             |                        |           |           |               |                |              | R.               |                  |               |        |
| EESA SUBDIVISION<br>.OT 12, BLOCK 3, UNIT 3, T                         | OF ANY P<br>RACT 2)             | KOJECI.  | ¢                           |                        |           |           |               |                |              |                  | 0                |               |        |
| TH ALBUQUERQUE ACRES   |                                 | a  |                             | 8<br>0                 |           |           |               |                |              |                  | RFH              | REH<br>I      | REH    |
| RANT NEW MEXICO PRINCIPAL<br>E BERNALILLO COUNTY, NEW                  | MERIDIAN                        | THE G  | roup                        |                        |           |           | D.            |                | ШЦ           |                  | BY<br>B          |               | 3      |
| LEGEND   | • a                             | 300 Branding   | Iron Rd.                    |                        |           |           |               |                | DA           |                  | 1                | В             |        |
| FLOW ARROW   |                                 | Rio Rancho, New  |                             | 87124                  |           |           |               |                | NO           |                  | DESIGNED         | DRAWN         | CHECK  |
| SLOPE ARROW  | o 0                             | Phone:(505)  |                             | ALBUQUER               | 201       | L<br>E    | <u> </u>      |                |              |                  | ā                |               | 0      |
| -=11.28 - PROPOSED ELEVATION   |                                 |  | JBLIC WO                    | ORKS DEPAR             | RTM       | IEN       |               | P              |              |                  |                  |               | ۵      |
| 66.33 EXISTING ELEVATION<br>GRADE BREAK                                | o                               |  |                             | DEVELOPME<br>EIGHTS SU |           | _         | _             | _              |              |                  | a<br>-           |               |        |
| EXISTING CONTOUR   |                                 | BEING A REPLAT OF  | LOT 12                      | 2, BLOCK 3             | ί, ι      | INI.      | T 2           |                | TRA          | СТ               | 2,               | NA            | A      |
| EXISTING CONTOUR   | c                               | GI<br>DESIGN REVIEW COMMITTEE  | and the first sector of the | & DRAINAGE             | Ę         |           |               | /0^            | Y/YR         |                  | Mo./             | DVA           | /YP    |
| PROPOSED EASEMENT  |                                 | DESIGN REVIEW COMMITTEE  | SITT ENG                    | ALLIN AFFRUVAL         | /         | UPDATE    | UIV.          | , 58           |              |                  |                  | 241/          | 115    |
| PROPOSED GRADE   | • •                             |  |                             |                        |           | DESIGN (  |               |                |              |                  |                  |               |        |
| EXISTING WALL  | 4                               |  |                             |                        |           | AST DES   |               |                | 0<br>0<br>0  |                  |                  |               |        |
| DRB No.  | н<br>Ф                          | CITY PROJECT No  |                             | ZONE MAP               | NO        |           | SI            | IFF            | To           |                  | OF               | _             |        |
| DRB No.<br>1009843   |                                 | CITY PROJECT No. 6986  | 82                          | C-19-                  | Ž         |           | ات            | می ایستان<br>ا | 3            | ,                | ~                | 5             |        |





ALL SIDEWALK S 4' IN WIDTH UNLESS OTHERWISE NOTED.

DEFERRED SIDEWALK