

CITY OF ALBUQUERQUE



January 1, 2016

Richard J. Berry, Mayor

David Soule, P.E.
Rio Grande Engineering
P.O. Box 93924
Albuquerque, NM 87199

**RE: 13604 Elena Gallegos
Grading and Drainage Plan
Engineer's Stamp Date 5-31-2016 (File: E24D004)**

Dear Mr. Soule:

Based upon the information provided in your submittal received 10-24-15, the above-referenced plan is approved for Building Permit.

PO Box 1293

Please attach a copy of this approved plan in the construction sets when submitting for a building permit. Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

Albuquerque

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

Sincerely,

New Mexico 87103

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

www.cabq.gov

Orig: Drainage file



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

Project Title: 13604 ELLENA GALLEGOS **Building Permit #:** _____ **City Drainage #:** _____
DRB#: _____ **EPC#:** _____ **Work Order#:** _____
Legal Description: LOT 82 HIGHLANDS UNIT 3
City Address: 13604 ELLENA GALLEGOS

Engineering Firm: RIO GRANDE ENGINEERING **Contact:** DAVID SOULE
Address: PO BOX 93924, ALBUQUERQUE, NM 87199
Phone#: 505.321.9099 **Fax#:** 505.872.0999 **E-mail:** DAVID@RIOGRANDEENGINEERING.COM

Owner: STEVE JAKOB **Contact:** _____
Address: PO BOX 91056, ALB NM 87199
Phone#: _____ **Fax#:** _____ **E-mail:** _____

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

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

Check all that Apply:

DEPARTMENT:

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

TYPE OF SUBMITTAL:

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

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) _____

IS THIS A RESUBMITTAL?: ☒ Yes ☐ No

DATE SUBMITTED: 5/30/16 **By:** _____

COA STAFF: ELECTRONIC SUBMITTAL RECEIVED: _____

THIS SITE IS LOCATED WITHIN THE HIGH DESERT DRAINAGE MASTER PLAN. THE OVERALL REGIONAL DRAINAGE SYSTEM WAS DESIGNED TO ACCOMMODATE FREE DISCHARGE OF ALL LOTS. THE OVERALL DISCHARGE IS CONTROLLED BY DOWNSTREAM DETENTION PONDS THAT REDUCE THE PEAK FLOW TO NATIVE CONDITIONS. IT IS THIS DESIGN'S INTENT TO GRADE THIS SITE TO CONFORM TO THE CITY OF ALBUQUERQUE 'FIRST-FLUSH' WATER QUALITY ORDINANCE AS WELL AS THE HOME OWNER ASSOCIATIONS DRAINAGE REQUIREMENT. THE FIRST FLUSH REQUIRES THE ONSITE RETENTION AND INFILTRATION OF ALL STORMS LESS THAN THE 90% STORM EVENT. THE VALUE OF THIS EVENT IS .34" OF RAINFALL. WE THEREFORE WILL RETAIN AND ALLOW INFILTRATION OF THIS STORM WATER VOLUME ONSITE THAT IS GENERATED DURING 90% OF THE DESIGN STORMS. THE PONDS ARE 2' DEEP AND WILL FILL AND SPILL DURING MOST SIGNIFICANT EVENTS LEAVING THE WATER QUALITY VOLUME TO INFILTRATE. THE PORTIONS OF THE SITE THAT DO NOT ENTER THE POND WILL LEAVE THE SITE AS SHEET FLOW. THIS WILL PROTECT THE NATURAL CONDITIONS OF THE ARROYOS BY ALLOWING NEEDED FLOW TO ENTER BUT AT LOWER PEAK RATES. THE CALCULATION IS $11,112 \text{ SF} \times .34/12 = 315 \text{ CUBIC FEET}$. THE WATER HARVEST AND INFILTRATION PONDS WILL BE RESEDED AND PLANTED TO APPEAR NATIVE. IT IS RECOMMENDED THEY ARE PLANTED WITH PLANTS TO TAKE ADVANTAGE OF WATER HARVESTING

BUILD WATER HARVEST POND
TOP=6245.00
BOTTOM=43.00
VOLUME=417 CU. FT.
CONSTRUCT WATER INFILTRATION GALLERY—
EXCAVATE 2'X4'X6" TRENCH, LINE SIDES AND
BOTTOM WITH FILTER FABRIC, PLACE 6—8" COBBLES, TOP
OF TRENCH SHALL MATCH BOTTOM OF HARVEST POND
SHAPE OF POND MAY BE MODIFIED TO PROVIDE
SMOOTHER TRANSITIONS AS FIELD CONDITIONS
ALLOW

BUILD WATER HARVEST POND
TOP=6245.00
OVERFLOW ELEV=6244.75
BOTTOM=43.00
VOLUME @ 6244.75=589 CU. FT.
CONSTRUCT WATER INFILTRATION GALLERY—
EXCAVATE 2'X4'6" TRENCH, LINE SIDES AND
BOTTOM WITH TRENCH FABRIC, PLACE 6-8" COBBLES, 1
' OF TRENCH SHALL MATCH BOTTOM OF HARVEST POND.
SHAPE OF POND MAY BE MODIFIED TO PROVIDE
SMOOTHER TRANSITIONS AS FIELD CONDITIONS
ALLOW

— LANDSCAPE WATER FEATURE

BUILD WATER HARVEST POND
TOP=6247.00
BOTTOM=46.00
VOLUME=114 CU. FT.

45-~~INSTALL 1-12" NDS INLET W/ATRIUM GRATE~~
~~GRATE=6246.85~~
~~8" HDPE INV=6245.35~~

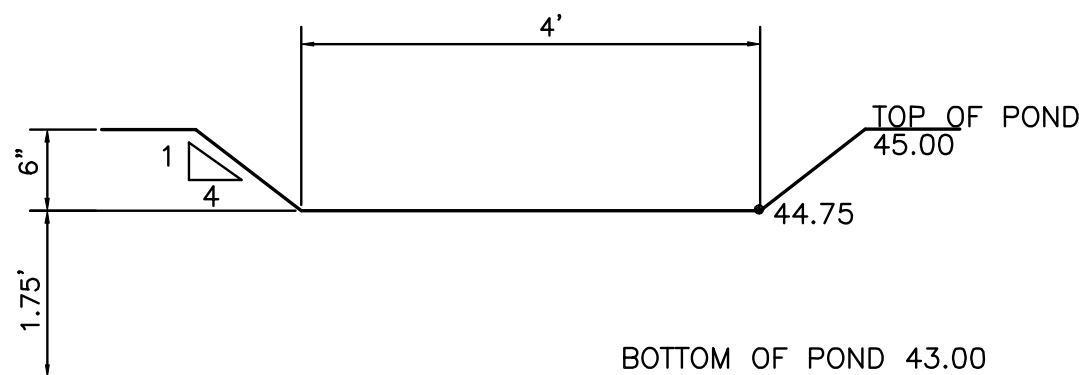
~~TURN 1 BLOCK FOR DRAINAGE~~
~~FL=6245.65~~

~~INSTALL 1-12" NDS INLET W/ ATRIUM GRATE~~
~~GRATE=6245.75~~
~~8" HDPE INV=6244.25~~

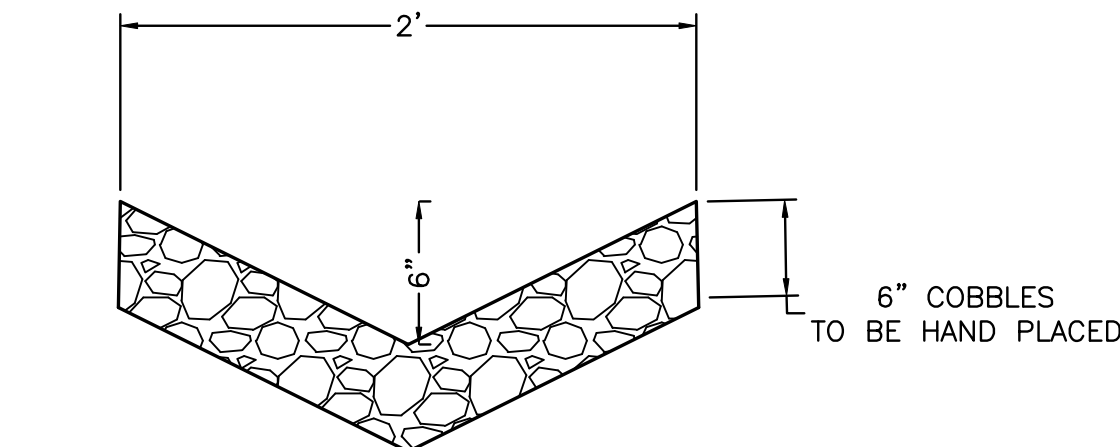
INSTALL 1-12" NDS INLET W/ ATRIUM GRATE
GRATE=6245.00
8" HDPE INV=6243.50

EXISTING AMAFCA AND HIGH DESERT
RESIDENTIAL OWNER ASSOCIATION INC
DRAINAGE EASEMENT
FILED: JUNE 20, 1996

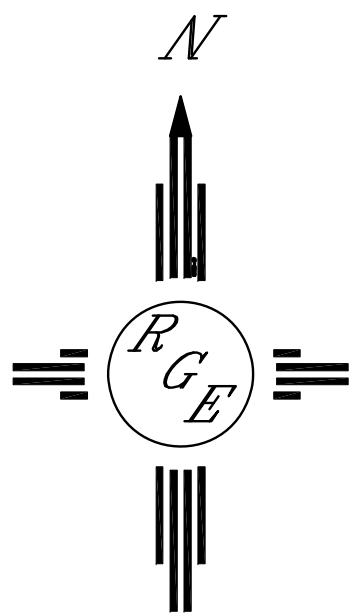
1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
4. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL (CITY) ACCEPTANCE OF ANY PROJECT.



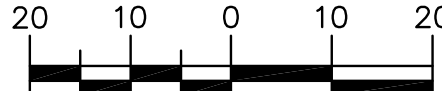
EMERGENCY OVERFLOW DETAIL
NTS



BIO-SWALE DETAIL



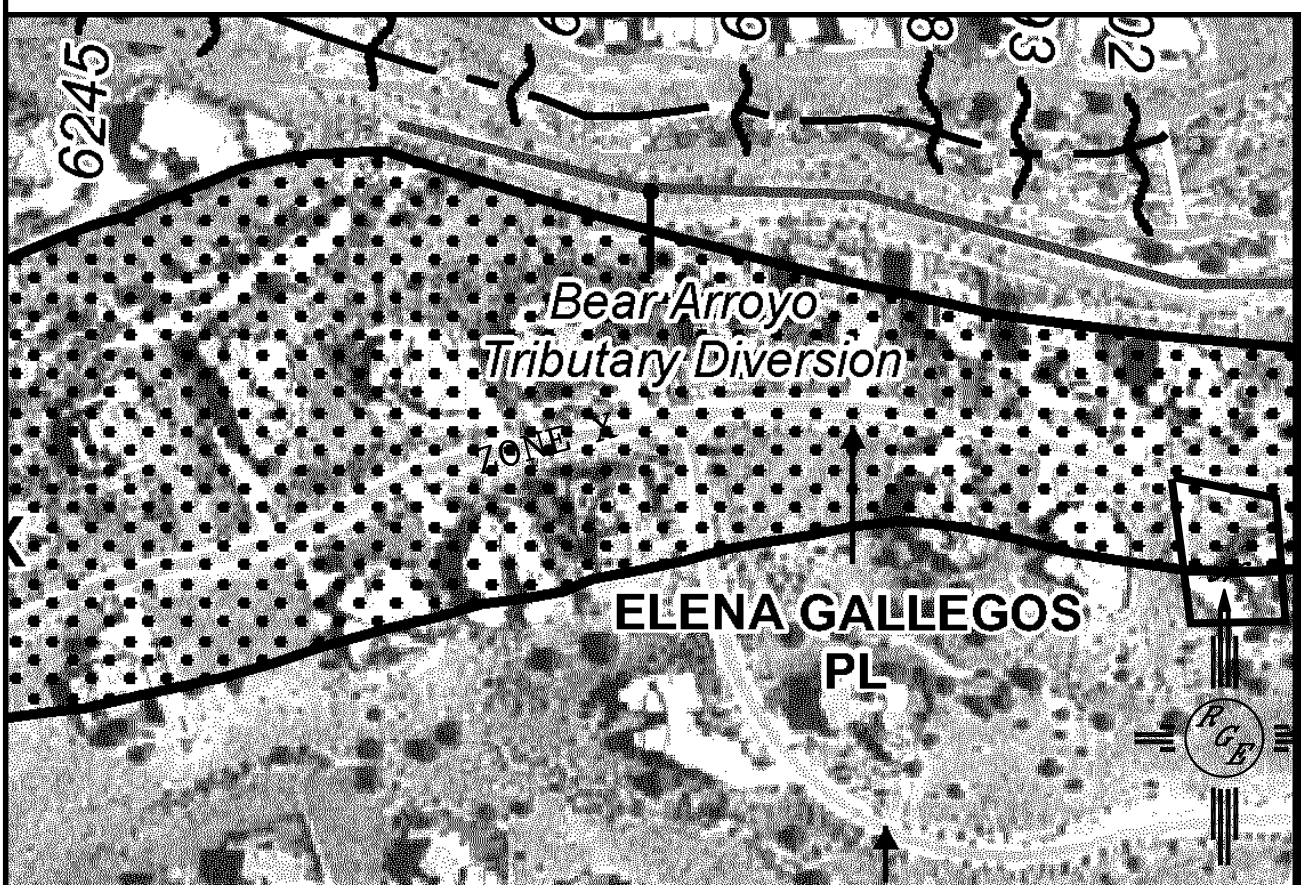
GRAPHIC SCALE



SCALE: 1"=20'



VICINITY MAP:



FIRM MAP:

FM35001C0163H

LEGAL DESCRIPTION:

LOT 82, THE HIGHLANDS AT HIGH DESERT UNIT 3

NOTES:

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
2. ALL RETAINING AND STEM WALLS SHALL BE DESIGNED BY OTHERS.

LEGEND

EXISTING EDGE OF ASPHALT

PROPOSED EDGE OF PAVING

EXISTING CONTOUR

EXISTING INDEX CONTOUR

PROPOSED CONTOUR

PROPOSED INDEX CONTOUR

PROPOSED SPOT ELEVATION



EXISTING SPOT ELEVATION

RIGHT-OF-WAY

LOT LINES

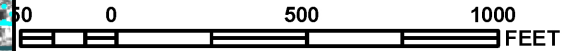
6' CMU BLOCK RETAINING WALL-DESIGN BY OTHERS

2' BIO-SWALE, SEE DETAIL THIS SHEET

	ENGINEER'S SEAL	13604 ELLENA GALLEGOS GRADING AND DRAINAGE PLAN 	DRAWN BY WCWJ
			DATE 5-31-16
	5/31/16 DAVID SOULE P.E. #14522		21603-LAYOUT-2-17-16 SHEET # —
		Rio Grande Engineering 1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999	JOB # 21603



MAP SCALE 1" = 500'



NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0163H

FIRM

FLOOD INSURANCE RATE MAP

BERNALILLO COUNTY,
NEW MEXICO

AND INCORPORATED AREAS

PANEL 163 OF 825

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
ALBUQUERQUE, CITY OF	350002	0163	H
BERNALILLO COUNTY UNINCORPORATED AREAS	350001	0163	H

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.



MAP NUMBER
35001C0163H

MAP REVISED
AUGUST 16, 2012

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov