



# 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:

- \_\_\_\_\_ 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: \_\_\_\_\_ 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

January 14, 2015

Ms. Rita Harmon  
Senior Engineer  
Hydrology Department  
Public Works Department  
City of Albuquerque

**RE: Revised Grading Plan (F11-1D014G  
Lot 32P1 Oxbow bluff  
Albuquerque, New Mexico**

Dear Ms. Harmon:

The purpose of this letter is to accompany the enclosed revised grading plan. The plan has been revised to accommodate your written comments dated 12/30/14. The following is a summary of your comment and the narrative as to how we addressed

1. Show Mwsel, overflow and contours on pond  
**We have added the overflow and contours. Since the pond is a water quality pond only the water surface elevation will be the spillway. The entire contributing basin generate a peak of 4.1 cfs, the spill way has a capacity for 20.8 cfs. We have shown the entire lot that shows the existing inlet outfall**
2. Provide drainage narrative.  
**We have added the narrative the plan**
3. Provide benchmark  
**We have added the benchmark.**
4. Show property liners.  
**We have shown property line .**
5. Don't show architectural features  
**We have removed**
6. Provide relevant information from the master drainage plan  
**The narrative includes the reference to the Oxbow master drainage plan(G11D14). This site is located within basin F and allowed to discharge based upon 58%A and 42%D..**
7. Show roof drains and flow directions  
**We have added**
8. How is offsite handled  
**We have included a basin map for the contributing area. The city AGIS map with 2' contours was utilized but the website will not allow print outs. So the County GIS was used to show. The flow is allowed onto the site and drains through the first flush pond, the overflow has capacity for entire upland flow to safely pass.**
9. Were is public drainage easement  
**We have shown entire property including referenced easement.**

10. Where is oxbow main outfall?

**We have shown the inlet we are draining to on the plan set**

11. Show flow arrows and contours

**We have added the contours for the plan**

Should you have any questions regarding this matter, please do not hesitate to call me.

Sincerely,

David Soule, PE  
RIO GRANDE ENGINEERING  
PO Box 93924  
ALBUQUERQUE, NM 87199  
321-9099

- ⑫ A ten foot (10') Public Utility Easement, and incidental purposes thereto, reserved along the front lot line of the insured premises, as shown on the recorded plat, recorded in Plat Book 99C, Page 32, records of Bernalillo County, New Mexico.
- ⑬ A one hundred foot (100') Public Storm Drain and Sanitary Sewer Easement and Access and Landscape Easement, and incidental purpose thereto, reserved along the easterly lot line of the insured premises, as shown on the recorded plat, recorded in Plat Book 99C, Page 32, records of Bernalillo County, New Mexico.
- ⑭ A seventeen and one-half foot (17.5') Public Storm Drain and Sanitary Sewer Easement and Access and Landscape Easement, and incidental purpose thereto, reserved along the southerly lot line of the insured premises, as shown on the recorded plat, recorded in Plat Book 99C, Page 32, records of Bernalillo County, New Mexico.
- ⑮ Conservation, Landscape and Walkway Easement recorded February 18, 1999, in Book 9903, Page 1985, as Doc. No. 1999022047, records of Bernalillo County, New Mexico.
- ⑯ Landscape and Signage Easement recorded February 18, 1999, in Book 9903, Page 1986, as Doc. No. 1999022048, records of Bernalillo County, New Mexico. (Does Not Affect Property - Off Site)
- ⑰ Access and Landscape Easement recorded February 18, 1999, in Book 9903, Page 1987, as Doc. No. 1999022049, records of Bernalillo County, New Mexico.

#### EASEMENT LEGEND

- Ⓐ 10' Building setback for heated portions of any dwelling unit. Privacy walls, patios and porches are allowed within this 10' area.

#### KEYED INVERT DATA

- Ⓐ Sanitary Sewer MH  
Rim= 5038.90'  
Inv.= 5028.85' (W)  
Inv.= 5028.60' (E)  
Inv.= 5028.75' (N)
- Ⓑ Sanitary Sewer MH  
Rim= 5027.40'  
Inv.= 5019.50' (W)  
Inv.= 5019.30' (N)  
Inv.= 5019.60' (S)
- Ⓒ Sanitary Sewer MH  
Rim= 5023.95'  
Inv.= 5018.55' (NM)  
Inv.= 5018.75' (S)
- Ⓓ Storm Drain Inlet  
Top of Grate= 5036.61'  
Inv.= 5031.36'
- Ⓔ Storm Drain MH  
Rim= 5029.60'  
Inv.= 5014.30' (W)  
Inv.= 5012.00' (N)  
Inv.= 5012.10' (S)
- Ⓕ Storm Drain Inlet  
Top of Grate= 5022.60'  
Inv. Full of Trash

Vertical Datum is based on Albuquerque Control Survey Monument "B-G11", elevation = 5116.009, as published.

INFORMATION PROVIDED BY SURVTEK DATED 2011

#### Weighted E Method

Basin	Area (sq ft)	Area (acres)	Treatment A % (acres)	Treatment B % (acres)	Treatment C % (acres)	Treatment D % (acres)	Weighted E % (ac-ft)	100-Year B-Hr. Volume (ac-ft)	Flow cfs	10-Year Volume (ac-ft)	Flow cfs
Contributing	70647.00	1.622	60%	0.9731	0%	0.000	0%	0.000	0.643	1.052	0.142
Existing	47863.00	1.099	100%	1.099	0%	0.000	0%	0.000	0.440	0.955	0.087
PROPOSED	47863.00	1.099	34%	0.3736	20%	0.220	26%	0.288	0.231	0.955	0.087
ALLOWED	47863.00	1.099	58%	0.6373	0%	0.000	42%	0.461	1.083	0.099	2.84

#### Equations:

Weighted E = Ea\**A*a + Eb\**A*b + Ec\**A*c + Ed\**A*d / (Total Area)

Volume = Weighted D \* Total Area

Flow = Qa \* *A*a + Qb \* *A*b + Qc \* *A*c + Qd \* *A*d

Where for 100-year, 6-hour storm (zone1)

Ea= 0.44  
Eb= 0.67  
Ec= 0.89  
Ed= 1.97

Qa= 1.29  
Qb= 2.65  
Qc= 2.87  
Qd= 4.37

First flush pond requirements (.34') x 10051  
285 cubic feet

overflow capacity  
Q=2.95xLxH<sup>1.5</sup>=  
required

20.85 cfs  
4.090 cfs

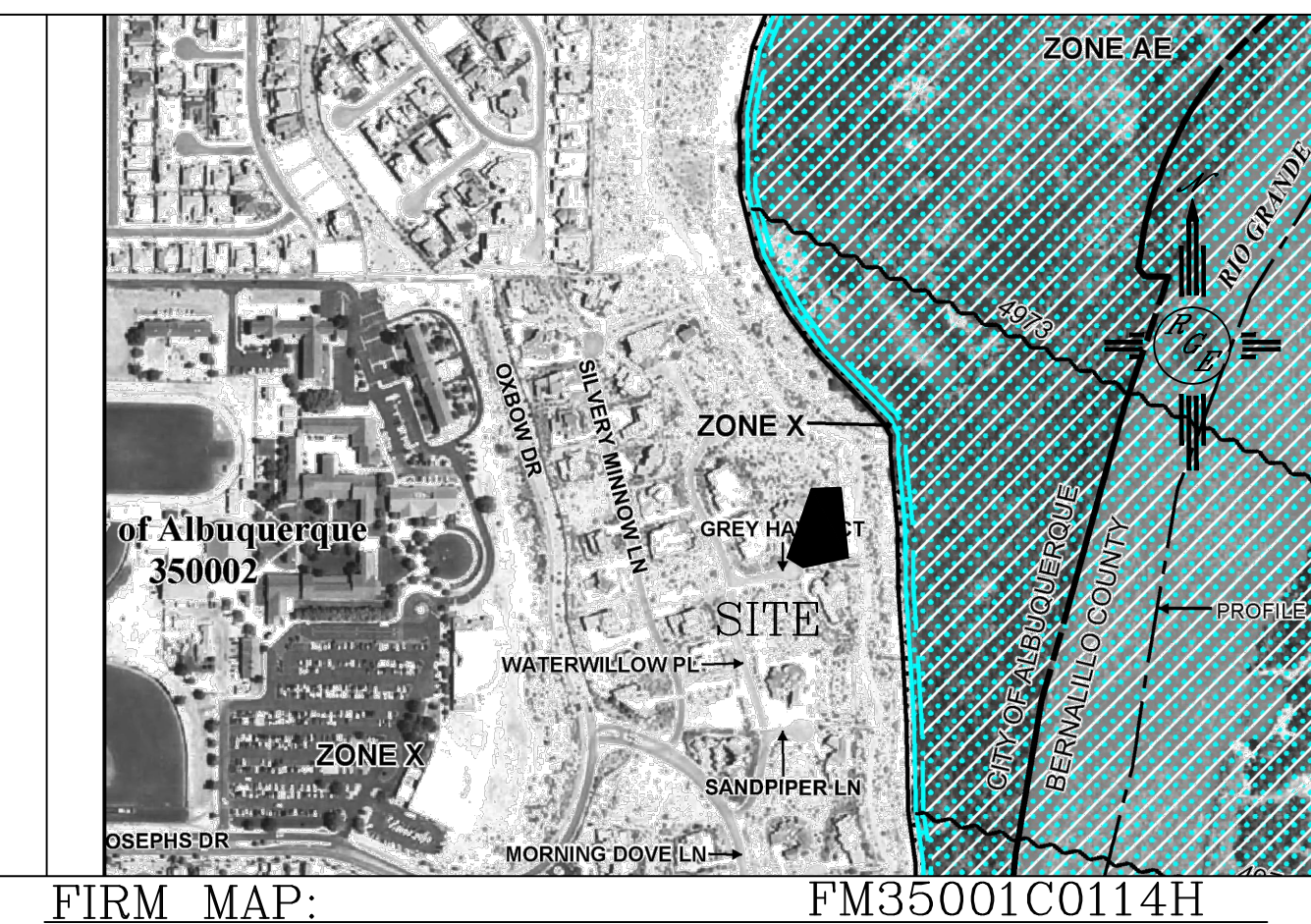
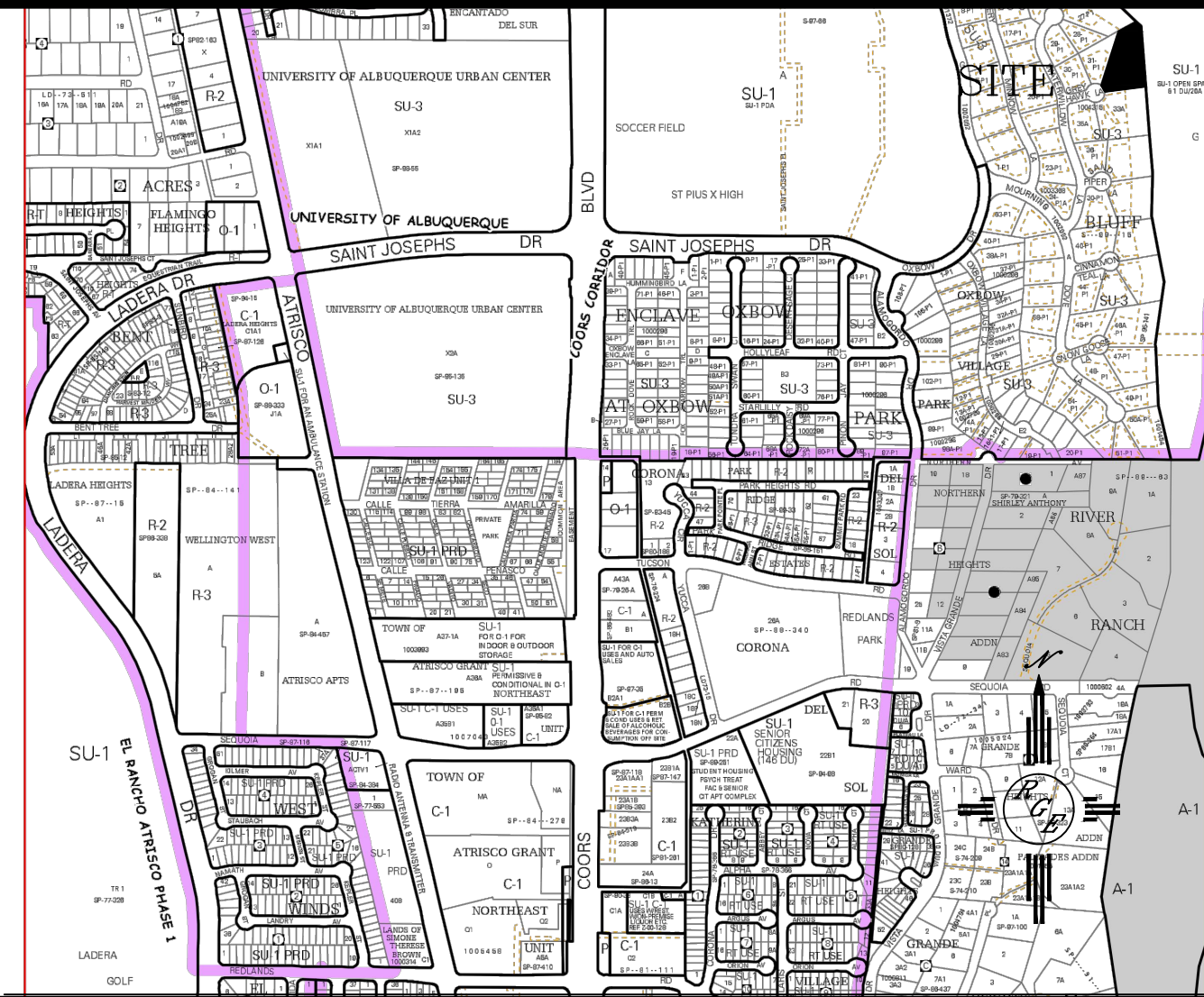
#### DRAINAGE NARRATIVE

THIS SITE IS LOCATED WITHIN BASIN F OF THE OXBOW BLUFF DRAINAGE MASTER PLAN G11/D14. THE PLAN CALLS FOR FREE DISCHARGE BASED UPFC. THE MASTER DRAINAGE PLAN ALLOWS FOR CROSS LOT DRAINAGE TO A COMMON STORM DRAIN RUNNING ALONG THE EAST PROPERTY LINE OF THIS LOT. THE LAND TREATMENT OF THIS LOT GENERATES LESS FLOW THAN ALLOWED, YET A WATER QUALITY POND HAS BEEN ADDED TO ACCOUNT FOR THE 285 CF OF REQUIRED. THE UPLAND FLOW IS ALLOWED TO ENTER THE SITE AND DUE TO FLOW PATH ENTERS OUR FIRST FLUSH POND. THE POND PROVIDES A 20' WIDE X 6' HIGH OVERFLOW. THE OVERFLOW CAPACITY OF 20.85 IS SIGNIFICANTLY GREATER THAN THE CONTRIBUTING FLOW RATE OF 4.09 CFS. THIS SITE CONFORMS TO THE OXBOW BLUFF MASTER PLAN AND THE CITY OF ALBUQUERQUE FIRST FLUSH ORDINANCE.

#### ROCK PLATING DETAIL

#### EROSION CONTROL NOTES:

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



#### LEGAL DESCRIPTION:

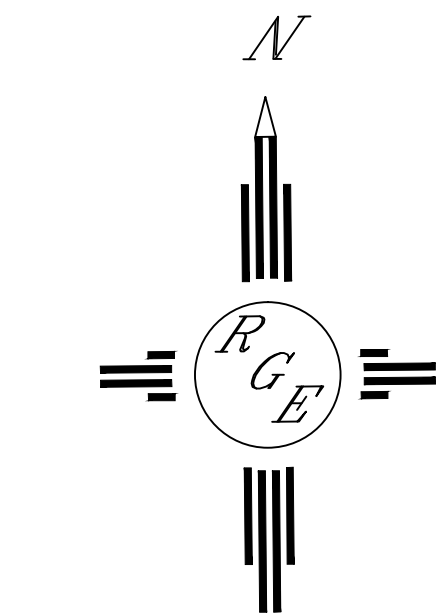
LOT 32-P1 OXBOW BLUFF SUBDIVISION

#### NOTES:

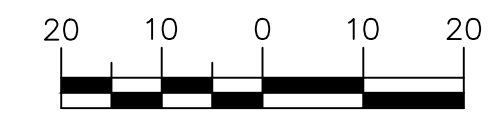
- ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
- TOPOGRAPHIC SURVEY INFORMATION SHOWN ON THIS PLAN WAS OBTAINED PANORAMA HOMES, JOHN LOWE
- ALL ROOF DRAINS SHALL HAVE CONCRETE SPLASH PADS AND DEFINED LANDSCAPE SWALES AWAY FROM BUILDING.
- ALL INLETS SHALL BE NYLOPLAST INLINE DRAINS 18" WITH FLAT GRATES


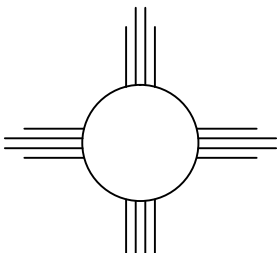
#### LEGEND

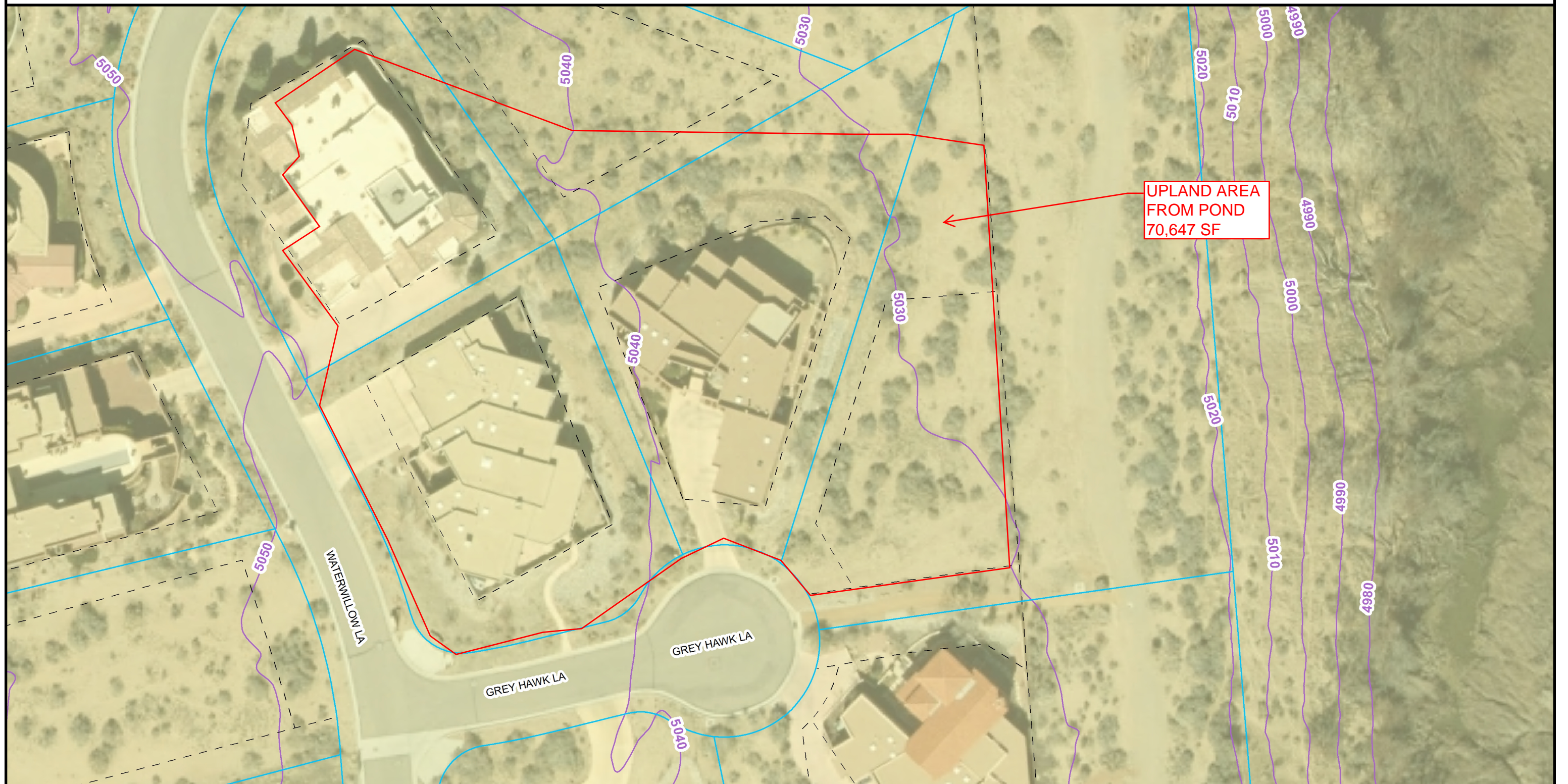
- 5411--- EXISTING CONTOUR
- 5410--- EXISTING INDEX CONTOUR
- 5411--- PROPOSED CONTOUR
- 5410--- PROPOSED INDEX CONTOUR
- 5410--- PROPOSED STEM RETAINING WALL
- 5410--- SWALE-FLOWLINE
- 5410--- PROJECT BENCHMARK



#### GRAPHIC SCALE



ENGINEER'S SEAL  1/14/15 DAVID SOULE P.E. #14522	LOT 32-P1 OXBOW BLUFF SUBDIVISION	DRAWN BY JDG
	GRADING AND DRAINAGE PLAN	DATE 01-13-2015
 Rio Grande Engineering 1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999	SHEET # 1 OF 1	JOB #



1/14/15

This information is for reference only.  
Bernalillo County assumes no liability for errors associated  
with the use of these data. Users are solely responsible for  
confirming data accuracy when necessary. For current  
information visit [www.bermco.gov/gis-program](http://www.bermco.gov/gis-program).

Notes



0 51.12 102.2  
Feet