



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

August 4, 2015

Ms. Jeanne Wolfenbarger, PE
Senior Engineer
Hydrology Department
Public Works Department
City of Albuquerque

**RE: Revised Grading Plan (G16-D095E)
National Electric
Albuquerque, New Mexico**

Dear Ms. Wolfenbarger:

The purpose of this letter is to accompany the enclosed revised grading plan. The plan has been revised to address your written comments dated May 28, 2015. The following is an answer to the corresponding comment number to your letter.

1. We have provided a basin map and labeled project limits
2. We have labeled the pond contours
3. We have shown a swap form the 5049.85 at entry to the pond on north side of site.
4. We have shown the roof drains
5. We have updated the drainage narrative to discuss upland flows and retention volumes.
6. We have labeled the flows in the pips and included calculations for capacity in the

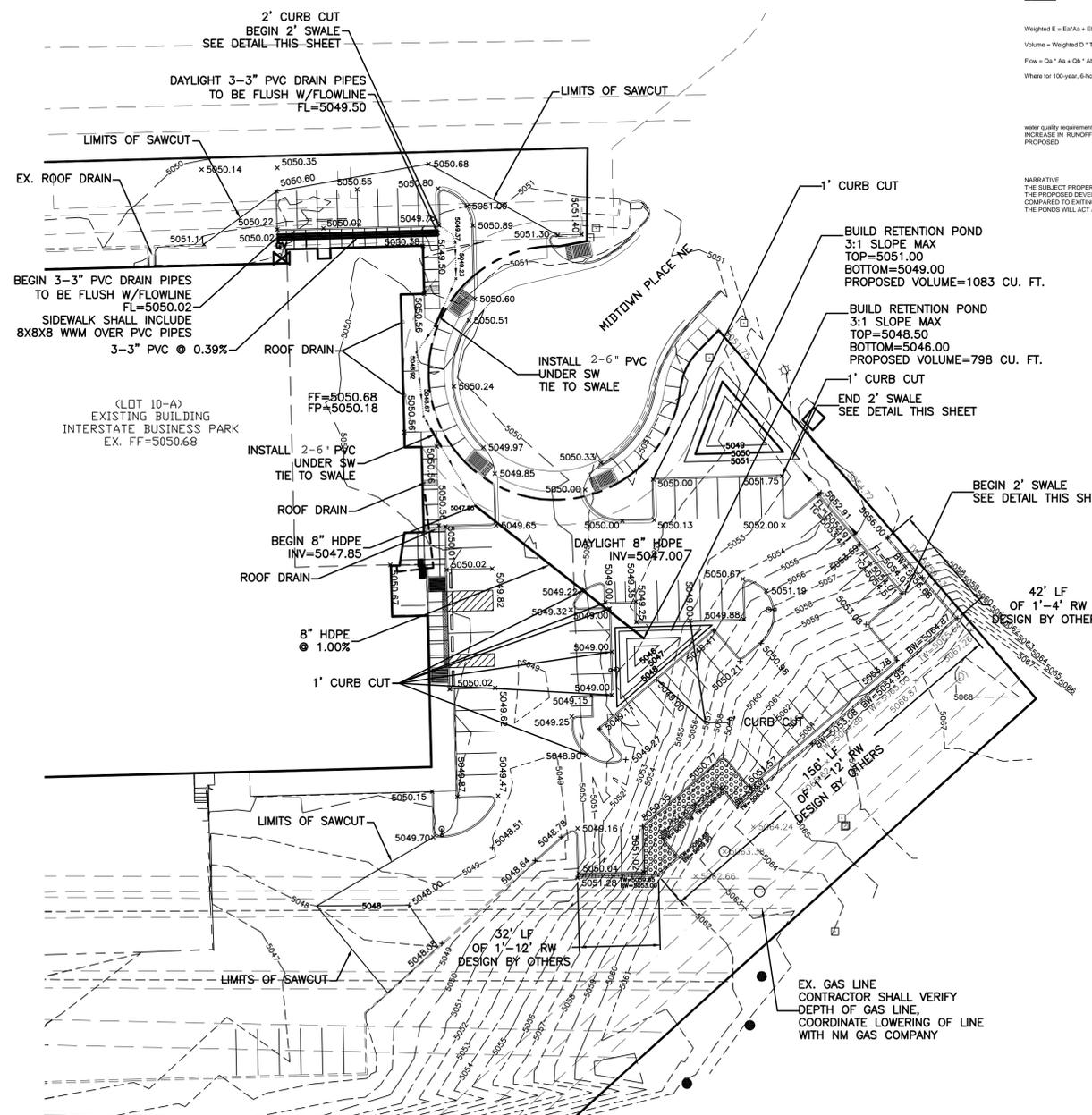
Should you have any questions regarding this matter, please do not hesitate to call me.

Sincerely,

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

EROSION CONTROL NOTES:

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 ACCEPTANCE OF ANY PROJECT.



SITE HYDROLOGY
Weighted E Method
NATIONAL ELECTRIC ADDITION

Basin	Area (sq ft)	Area (acres)	Treatment A	Treatment B	Treatment C	Treatment D	100-Year E _h	Weighted E _h	Volume	Flow
IMPERVIOUS AREA INCREASE	17240	0.396	0%	0%	0.00%	0%	100%	0.396	2,120	0.00
NATIVE AREA DECREASE	17240	0.396	40%	20.0%	0.0%	0.0%	100%	0.00	0.00	0.00
SUBBASIN A	452	0.010	0%	0.0%	0.0%	0%	100%	0.014	2,120	0.01
SUB BASIN B	362	0.007	0%	0.0%	0.0%	0%	100%	0.009	1,823	0.01
SUB BASIN C	3017	0.069	0%	0.0%	0.0%	0%	100%	0.069	1,823	0.03
SUB BASIN D	1942	0.045	0%	0.0%	0.0%	0%	100%	0.045	1,224	0.04

Equations:

Weighted E = E_hA_h + E_hA_h + E_hA_h + E_hA_h / (Total Area)

Volume = Weighted E_h Total Area

Flow = Q₁ + Q₂ + Q₃ + Q₄ + Q₅ + Q₆ + Q₇ + Q₈

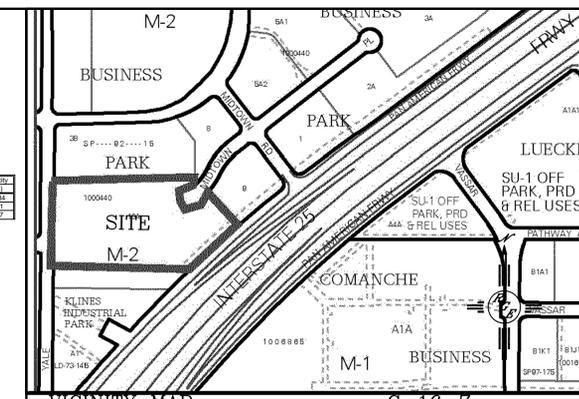
Where for 100-year E_h hour storm (zone 2)

E_h = 0.53
 E_h = 0.78
 E_h = 1.13
 E_h = 2.12

water quality requirement INCREASE IN RUNOFF PROPOSED

559 CUBIC FEET	1868 CUBIC FEET	1861.00 CUBIC FEET	PIPE CAPACITIES REQUIRED	PROVIDED
			3"	0.07
			6"	0.72
			8"	1.94
			1"	1.13

NARRATIVE:
 THE SUBJECT PROPERTY IS A FULLY DEVELOPED SITE. THE EXISTING WORK AREA IS PARTIALLY PAVED AND CONTAINS A LARGE SLOPE. THE PROPOSED DEVELOPMENT WILL CREATE HARVEST PONDS EQUAL TO THE INCREASED RUNOFF CAUSED BY THE INCREASE IN THE IMPERVIOUS AREA COMPARED TO EXISTING CONDITIONS. THE INCREASE IN IMPERVIOUS AREA IS 17240 SQUARE FEET. THE INCREASE IN RUNOFF IS 3465 AND 1868 CUBIC FEET. THE PONDS WILL ACT AS WATER QUALITY PONDS AS WELL AS REDUCING THE PEAK DISCHARGE RATE TO WHAT IS SIMILAR TO THE EXISTING CONDITION.

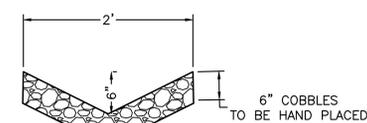
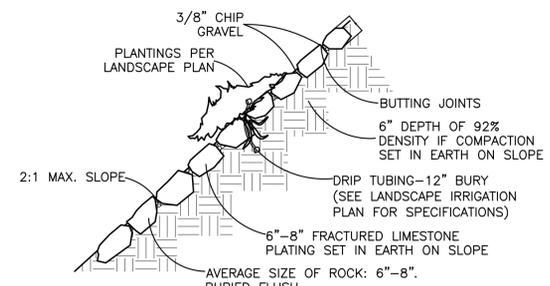


LEGAL DESCRIPTION:
 LOT 10-A MIDTOWN BUSINESS PARK

- NOTES:**
1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
 2. ALL CURB AND GUTTER TO 6" HEADER UNLESS OTHERWISE NOTED.
 3. ALL RETAINING WALL DESIGN SHALL BE BY OTHERS.

LEGEND

---	EXISTING CONTOUR
- - -	EXISTING INDEX CONTOUR
---	PROPOSED CONTOUR
- - -	PROPOSED INDEX CONTOUR
▲	SLOPE TIE
×	EXISTING SPOT ELEVATION
×	PROPOSED SPOT ELEVATION
---	EX. STORM DRAIN
---	BOUNDARY
---	EASEMENT
---	CENTERLINE
---	RIGHT-OF-WAY
---	PROPOSED CURB
---	EXISTING CURB AND GUTTER
---	PROPOSED SIDEWALK
---	EXISTING SIDEWALK
---	PROPOSED RETAINING WALL (DESIGN BY OTHERS)
---	PROPOSED ROCK PLATING (SEE DETAIL THIS SHEET)



CAUTION:
 EXISTING UTILITIES ARE NOT SHOWN. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES & OTHER IMPROVEMENTS.

ROUGH GRADING APPROVAL _____ DATE _____

ENGINEER'S SEAL 	NATIONAL ELECTRIC	DRAWN BY WCWJ
8/1/15	GRADING AND DRAINAGE PLAN	DATE 7-20-15
DAVID SOULE P.E. #14522	 Rio Grande Engineering 1806 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999	21514-LAYOUT-4-29-15
		SHEET # —
		JOB # 21514