CITY OF ALBUQUERQUE

June 21, 2016

David Soule, PE
Rio Grande Engineering
1606 Central SE Suite 201
Albuquerque, NM 87106

Re: Coal Townhomes
714 Coal Ave. SW
6 ~~4~~ Requested for Permanent C. O. - Accepted
Engineers Stamp Date 5/27/15 (K13D073)
Certification dated: 5-27-16

Dear Mr. Soule,

Based on the Certification received 5/27/2016, the site is acceptable for release of Certificate of Occupancy by Hydrology.

If you have any questions, you can contact me at 924-3986 or Totten Elliott at 924-3982.

Sincerely,

Rita Harmon, P.E.
Senior Engineer, Planning Dept.
Development Review Services

TE/R~~&~~H
C: email Cordova, Camille C.; Miranda, Rachel; Sandoval, Darlene M.; Blocker, Lois

PO Box 1293
Albuquerque
New Mexico 87103
www.cabq.gov

City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: Coal Townhomes Building Permit #: City Drainage #: K13D73

DRB#: EPC#: Work Order#:

Legal Description: LOT 8A Raynolds Addition

City Address: 716 coal

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: SEAN GILLIGAN Contact:

Address: PO BOX 7847 ALB NM 87194

Phone#: Fax#: E-mail:

Architect: Contact:

Address:

Phone#: Fax#: E-mail:

Surveyor: CONSTRUCTION SURVEY INCORPORATED Contact: JOHN GALLEGOS

Address:

Phone#: 917.8921 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)
- X 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
- X 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 X No ____ Copy Provided

DATE SUBMITTED: 5/27/16 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 followin

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

Weighted E Method

LOT 8A RAYNOLDS ADDITION

Existing Developed Basins

Basin	Area (sf)	Area (acres)	Treatment A %	Treatment A (acres)	Treatment B %	Treatment B (acres)	Treatment C %	Treatment C (acres)	Treatment D %	Treatment D (acres)	100-Year, 6-hr. Weighted E (ac-ft)	Volume (ac-ft)	Flow cfs
EXISTING	4970	0.114	0%	0	100.0%	0.114	0.0%	0	0%	0.000	0.780	0.007	0.26
PROPOSED	4970	0.114	0%	0	33.0%	0.038	15.0%	0.01711	52%	0.059	1.529	0.015	0.42
IMPERVIOUS TO TRENCH	1740	0.040		0	0.0%	0.000	0.0%	0	100%	0.040	2.120	0.007	0.19
DISCHARGE LESS HARVEST	3230	0.074		0	51.2%	0.038	23.1%	0.01711	26%	0.019	1.204	0.007	0.23
ALLOWABLE DISCHARGE													0.31

Equations:

Weighted E = Ea*Aa + Eb*Ab + Ec*Ac + Ed*Ad / (Total Area)

Volume = Weighted D * Total Area

FIRST FLUSH VOLUME= 73 CF
VOLUME 315 CF

Flow = Qa * Aa + Qb * Ab + Qc * Ac + Qd * Ad

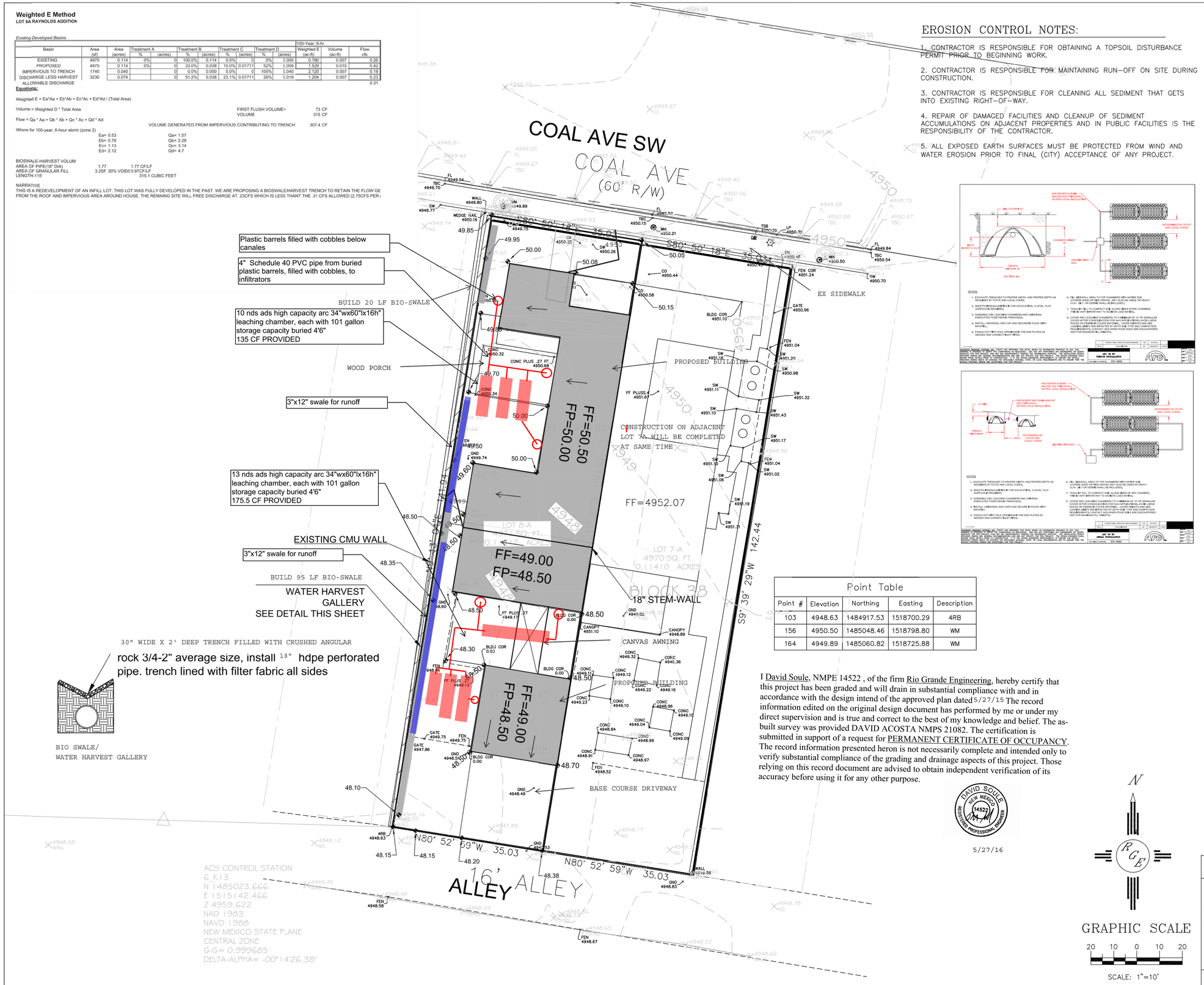
VOLUME GENERATED FROM IMPERVIOUS CONTRIBUTING TO TRENCH 307.4 CF

Where for 100-year, 6-hour storm (zone 2)

Ea= 0.53 Qa= 1.57
Eb= 0.78 Qb= 2.28
Ec= 1.13 Qc= 3.14
Ed= 2.12 Qd= 4.7

BIOSWALE-HARVEST VOLUM
AREA OF PIPE(18" DIA) 1.77 1.77 CF/LF
AREA OF GRANULAR FILL 3.25F 30% VOID 0.97CF/LF
LENGTH-115' 315.1 CUBIC FEET

NARRATIVE
THIS IS A REDEVELOPMENT OF AN INFILL LOT. THIS LOT WAS FULLY DEVELOPED IT THE PAST. WE ARE PROPOSING A BIOSWALE/HARVEST TRENCH TO RETAIN THE FLOW GE FROM THE ROOF AND IMPERVIOUS AREA AROUND HOUSE. THE REMAING SITE WILL FREE DISCHARGE AT .23CFS WHICH IS LESS THANT THE .31 CFS ALLOWED (2.75CFS PER /



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 (CITY) ACCEPTANCE OF ANY PROJECT.

Point Table				
Point #	Elevation	Northing	Easting	Description
103	4948.63	1484917.53	1518700.29	4RB
156	4950.50	1485048.46	1518798.80	WM
164	4949.89	1485060.82	1518725.88	WM

I David Soule, NMPE 14522 , of the firm Rio Grande Engineering, hereby certify that this project has been graded and will drain in substantial compliance with and in accordance with the design intend of the approved plan dated 5/27/15 The record information edited on the original design document has performed by me or under my direct supervision and is true and correct to the best of my knowledge and belief. The as-built survey was provided DAVID ACOSTA NMPS 21082. The certification is submitted in support of a request for PERMANENT CERTIFICATE OF OCCUPANCY. The record information presented heron 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.

DAVID SOULE NEW MEXICO 14522 REGISTERED PROFESSIONAL ENGINEER

5/27/16

VICINITY MAP:

FIRM MAP:

LEGAL DESCRIPTION:

LOT 8-A RAYNOLDS ADDITION

NOTES:

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.

2. TOPOGRAPHY AND SURVEY DATA SHOWN ON THIS PLAN WAS OBTAINED BY CONSTRUCTION SURVEY TECHNOLOGIES. DAVID P ACOSTA PLS 21082 MAY 2015

LEGEND

- EXISTING CONTOUR (5411)
- EXISTING INDEX CONTOUR (5410)
- PROPOSED CONTOUR (5411)
- PROPOSED INDEX CONTOUR (5410)
- EXISTMH CMU WALL
- SWALE-FLOWLINE

N

GRAPHIC SCALE

20 10 0 10 20

SCALE: 1"=10'

ENGINEER'S SEAL	LOT 8-A RAYNOLD ADDITION	DRAWN BY JDG
DAVID SOULE NEW MEXICO 14522 REGISTERED PROFESSIONAL ENGINEER 5/27/15	GRADING AND DRAINAGE PLAN	DATE 05-20-2015
DAVID SOULE P.E. #14522	Rio Grande Engineering 1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999	SHEET # 1 OF 1
		JOB #