Rael, Rudy E.

From: Rael, Rudy E.
Sent: Thursday, September 29, 2016 9:43 AM
To: 'David Soule (david@riograndeengineering.com)'
Subject: Matthew Dr. Storage

Mr. Soule,

This email is being sent in lieu of an attached comment letter in order to expedite our response to previous comments.
Response to comments should continue to be included in the resubmittal. A reply to these comments via email will not be considered a resubmittal.

Based upon the information provided in your submittal received 9/13/16, the above referenced Grading and Drainage plan dated 9/9/16
cannot be approved for Grading Permit or Building Permit until the following comments are addressed:

- Enlarge the drainage calcs or provide on a separate sheet with the proper font size. Once submitted the calculations will be checked.
- Provide spot elevations outside the new buildings.
- Statement on sidewalk culvert, add extend passed property line 1 foot.
- Are the landscaping areas new? Is there a curb at the edge of pavement? Is the entire site paved?
- Provide a note in the SO-19 notes stating, to contact Jason Rodriguez at 235-8016 for the sidewalk culvert inspection before and after pouring the concrete.
- Provide a notes stating, The curb stone for the sidewalk culvert must be removed from joint to joint, no cutting.

If you should have any questions feel free to contact me or Abiel Carrillo at 924-3986.

Rudy E. Rael, CE, CFM
Engineer Associate, Hydrology
Planning Department
600 2nd St. NW Suite 201
Albuquerque NM 87102
(505) 924-3977

City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

Project Title: MATTHEW DRIVE STORAGE ADDITION Building Permit #: _____ City Drainage #: _____

DRB#: _____ EPC#: _____ Work Order#: _____

Legal Description: TRACT 3-A DUKE CITY INDUSTRIAL

City Address: 3309 MATTHEW DR NE

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: CHARLES BOMBACH AND CO Contact: _____

Address: 4811HARDWARE DRIVE NE 87109

Phone#: _____ Fax#: _____ E-mail: _____

Architect: _____ Contact: _____

Address: _____

Phone#: _____ Fax#: _____ E-mail: _____

Other Contact: _____ Contact: _____

Address: _____

Phone#: _____ Fax#: _____ E-mail: _____

Check all that Apply:

DEPARTMENT:

X HYDROLOGY/ DRAINAGE
_____ TRAFFIC/ TRANSPORTATION
_____ MS4/ EROSION & SEDIMENT CONTROL

TYPE OF SUBMITTAL:

_____ ENGINEER/ ARCHITECT CERTIFICATION

_____ CONCEPTUAL G & D PLAN
X 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:

X BUILDING PERMIT APPROVAL
_____ CERTIFICATE OF OCCUPANCY

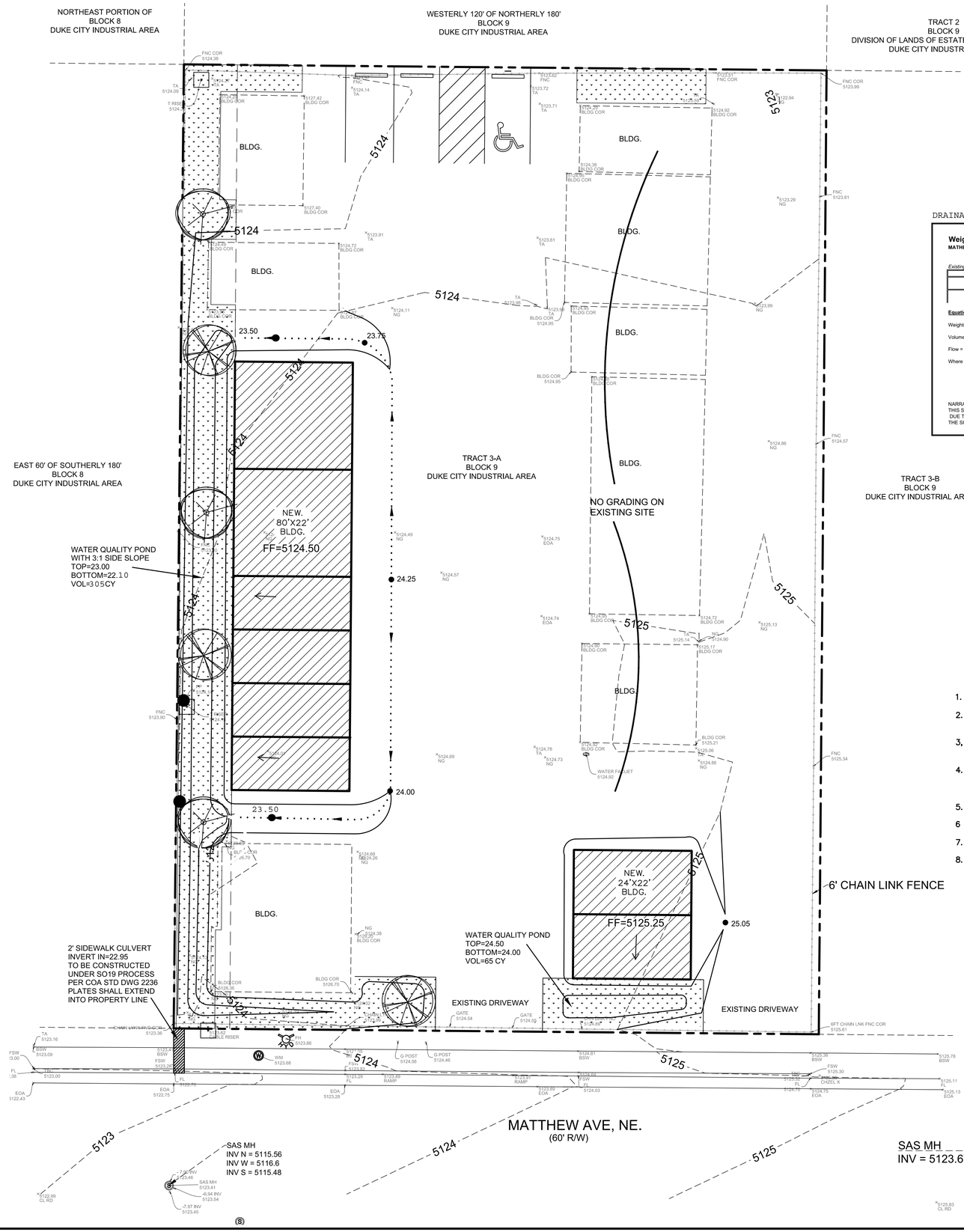
_____ PRELIMINARY PLAT APPROVAL
_____ SITE PLAN FOR SUB'D APPROVAL
_____ SITE PLAN FOR BLDG. PERMIT APPROVAL
_____ FINAL PLAT APPROVAL
_____ SIA/ RELEASE OF FINANCIAL GUARANTEE
_____ FOUNDATION PERMIT APPROVAL
X GRADING PERMIT APPROVAL
_____ SO-19 APPROVAL
_____ PAVING PERMIT APPROVAL
_____ GRADING/ PAD CERTIFICATION
_____ WORK ORDER APPROVAL
_____ CLOMR/LOMR

_____ PRE-DESIGN MEETING
_____ OTHER (SPECIFY) _____

IS THIS A RESUBMITTAL?: _____ Yes X No

DATE SUBMITTED: 9/9/16 By: _____

COA STAFF: ELECTRONIC SUBMITTAL RECEIVED: ____



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.

DRAINAGE CALCULATIONS

Weighted E Method
MATHEW STORAGE ADDITION

Existing Developed Basins

													100-Year, 6-hr.			10-day	
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)	Weighted E (ac-ft)	Volume (ac-ft)	Flow cfs	Volume (ac-ft)
EXISTING	21642	0.497	0%	0	0.0%	0.000	82.0%	0.4074	18%	0.089	1.308	0.054	1.70	0.066
PROPOSED	21642	0.497	0%	0	13.0%	0.065	60.0%	0.2981	27%	0.134	1.352	0.056	1.71	0.074

Equations:

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

Volume = Weighted D * Total Area

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

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

Ea= 0.53 Qa= 1.56
Eb= 0.78 Qb= 2.28
Ec= 1.13 Qc= 3.14
Ed= 2.12 Qd= 4.7

FIRST FLUSH REQUIREMENT
165.5613 CUBIC FEETREQUIRED
370 CUBIC FEET PROVIDED

RETAIN WATER FROM NEW CONSTRUCTION
338.3366 CUBIC FEET -100YEAR, 10 DAY

SIDE WALK CULVERT CAPACITY
2.95X2X(.67)^1.5= 3.23 CFS

NARRATIVE
THIS SITE IS A DEVELOPMENT OF AN EXISTING SITE . THE ADDITION WILL OCCUR IN A LOCATION THAT IS CURRENTLY HARD PACKED GRAVEL. THE NET INCREASE IN FLOW RATE SHALL B DUE TO THE ADDITION OF LANDSCAPING. THE INCREASED VOLUME FOR A 10-DAY EVENT WILL BE RETAINTED ONSITE. THIS VOLUME EXCEEDS THE FIRST FLUSH REQUIREMENT.
THE SITE DRAINAGE WILL BE CONVEYED TO THE RIGHT OF WAY VIA A 2' SIDEWALK CULVERT

PRIVATE DRAINAGE IMPROVEMENT IN PUBLIC ROW
NOTICE TO CONTRACTORS (SPECIAL ORDER "SO–19"

1. AN EXCAVATION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT–OF–WAY.
2. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXCIO ONE CALL, DIAL "811" (OR 505–260–1990.) FOR LOCATION OF EXISTING UTILITIES.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
5. BACKFILL COMPACTION SHALL BE ACCORDING TO TRAFFIC/STREET USE.
6 MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24–HOUR BASIS.
8. PRIOR TO POURING CONCRETE, CONTRACTOR SHALL NOTIFY THE STORM DRAIN INSPECTOR, 505–857–8074, TO INSTPECT REINFORCEMENT.

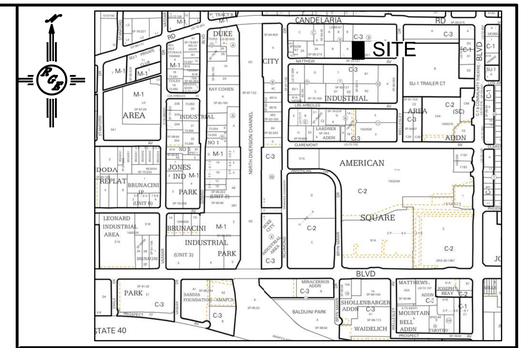
APPROVAL	NAME:	DATE:
INSPECTOR		

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.

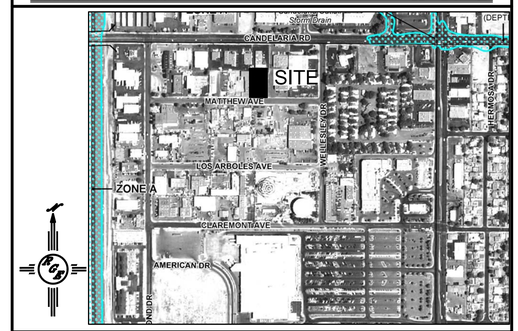
N

10 5 0 5 10

SCALE: 1"=10'



VICINITY MAP: H–16–Z



FIRM MAP: FM35001C0351H

LEGAL DESCRIPTION:
TRACT 3–A BLOCK 9 DUCK CITY INDUSTRIAL AREA
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO

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

LEGEND

- 5601 — EXISTING CONTOUR
- 5600 — EXISTING INDEX CONTOUR
- 5601 — PROPOSED CONTOUR
- 5600 — PROPOSED INDEX CONTOUR
- LOT LINE
- CENTERLINE
- RIGHT–OF–WAY
- EXTENDED STEM WALL SEE ARCH PLANS FOR DETAILS
- PROPOSED ROCK FACE WALL
- EXISTING CURB AND GUTTER
- PROPOSED EDGE OF CONCRETE
- PROPOSED FLOWLINE
- EXISITNG WALL
- ROOF DRAIN DIRECTION(TYPICAL)

ENGINEER'S SEAL	BOMACH STORAGE	DRAWN BY DEM
DAVID SOULE NEW MEXICO 14522 REGISTERED PROFESSIONAL ENGINEER 9/9/16	GRADING AND DRAINAGE PLAN	DATE 9–9–16 P:\RGE DAVID SOULE\BOMACH.DWG
DAVID SOULE P.E. #14522	Rio Grande Engineering 1606 CENTRAL AVENUE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872–0999	SHEET # 1 of 1 JOB # XXXXX