AGENDA

The following will be considered at the Regular Meeting of the Doña Ana County Board of County Commissioners to be held on January 22, 2019, at 9:00 a.m. in the Doña Ana County Commission Chambers, 1st Floor, Doña Ana County Government Center, 845 North Motel Boulevard, Las Cruces, New Mexico:

• **Invocation**: Reverend Dr. Margaret Short, Pastoral Care Director, Memorial Medical Center, Anglican Priest at the Church of the Good Shepherd at hill located near Doña Ana.

• **Pledge of Allegiance**

• **Roll Call of Commission Members Present and Determination of Quorum**

COMMISSION CONVENE AS THE BOARD OF COUNTY COMMISSIONERS AND THE COUNTY BOARD OF FINANCE IN OPEN SESSION.

• **CHANGES TO THE AGENDA**: Fernando R. Macias, County Manager, will discuss

• **PET SHOWCASE**: ASCMV Staff will present

• **EMPLOYEE RECOGNITION**: The Commission will recognize Doña Ana County employees for their years of service to Doña Ana County — Read by Fernando R. Macias, County Manager, will present.

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Years of Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ramon Rodriguez</td>
<td>Health &amp; Human Services</td>
<td>5</td>
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<tr>
<td>Jared O'Rear</td>
<td>Sheriff's Department</td>
<td>5</td>
</tr>
<tr>
<td>Gabriel Sanchez</td>
<td>Sheriff's Department</td>
<td>5</td>
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<tr>
<td>Jonathon Almanza</td>
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<td>Tiara Gamboa</td>
<td>Detention Center</td>
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<tr>
<td>Jacob Alderete</td>
<td>Detention Center</td>
<td>10</td>
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<tr>
<td>Richard Dominguez</td>
<td>Engineering</td>
<td>15</td>
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<tr>
<td>Elizabeth Warpula</td>
<td>Financial Service Department</td>
<td>15</td>
</tr>
<tr>
<td>Angelica Valenzuela</td>
<td>Clerk's Office</td>
<td>15</td>
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<tr>
<td>Jess Williams</td>
<td>Public Information Office</td>
<td>Retirement-20 years</td>
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</table>

• **PUBLIC INPUT**

• **STAFF INPUT**

• **COUNTY ELECTED OFFICIALS' INPUT**

COMMISSION INPUT
PRESENTATIONS:

1. Kinder Morgan Pipeline Rupture and Remediation—Mr. Allen Fore, Vice President, Public Affairs, will present.

2. Reinspection of the County’s Fire Districts by the Insurance Services Office, Inc. (ISO)—Nicholas Hempel, Fire Chief, will present.

3. Corizon Health Care Overview Regarding Behavioral Health and Medical Services Currently Provided within the Detention Center—Debbie Fye, Regional Vice President, will present.

4. Overview of the Bridge of Southern New Mexico’s Mission, Successes and Current Activities —Tracey Bryan, President/CEO, will present.

CONSENT AGENDA: The Board will be asked to approve by one motion the following items of recurring or routine business:

5. Approve Minutes for the Regular Meeting of January 8, 2019 – Clerk’s Office.

6. Accept and Approve Grant Award for the Countywide Read Across America Day Program from Brady Shines; Approve Budget Resolution and Revision and Delegate Signature Authority to the County Manager on all Related Documents—Liz Reed, Community and Constituent Services Manager, will discuss.

7. Approve Lease Agreement with Enchanted Technology Solutions and Delegate Signature Authority to the County Manager to Sign all Related Documents—Vicki Lusk, Animal Control and Codes Manager, will discuss.

APPROVALS

8. Approve Award of Contract to Families and Youth, Inc., for a Youth Intervention Program and Designate Signature Authority to the County Manager—Fernando R. Macias, County Manager, will discuss.

9. Approve Mid-Year Budget Revision and Budget Resolution for the FY2019 Budget—Marisol Richardson, Budget Officer, will discuss.

10. Authorize the Publication of Title and General Summary to Amend Chapter 56, Industrial Revenue Bonds, Related to the Application Fees and Annual Administrative Costs, and to Amend Chapter 179, Fees and Permits, as it Relates to Industrial Revenue Bonds of the Doña Ana County Code—Fernando R. Macias, will discuss.

PUBLIC HEARING

11. Approve an Ordinance Authorizing a Property Tax Rebate to Benefit Low-Income Property Taxpayers—Nelson J. Goodin, County Attorney, will discuss.

12. Approve Preliminary Plat for Orchard Estates Phases III, IV and V—Luis Marmolejo, Senior Planner, will discuss.
CORRESPONDENCE

13. Cindy Padilla, County Clerk’s Office, will present to the Commissioner any claims received by Doña Ana County.

THE COMMISSION MAY CONVENE IN CLOSED SESSION to discuss threatened or pending litigation in which the public body is or may become a participant; specifically Hines vs. DAC, D-307-CV-2017-01730 and Aguilera vs. DAC, D-307-CV-2017-00453, as authorized by the Open Meetings Act, NMSA 1978 § 10-15-1 (H) (7).

COMMISSION ADJOURNS AS THE BOARD OF COUNTY COMMISSIONERS AND THE COUNTY BOARD OF FINANCE IN OPEN SESSION.

THIS AGENDA IS SUBJECT TO CHANGE

NOTE: Doña Ana County will ensure effective communication with individuals with disabilities and will, upon request, provide auxiliary communication aids and services to afford those individuals equal opportunity for participation in Doña Ana County sponsored meetings, events, or activities. Any request should be made to the Americans with Disabilities Act Coordinator, in writing, or by phone, as soon as possible prior to the event at which accommodation is needed. If you have any questions regarding examples of reasonable accommodations, please contact the ADA Coordinator, at 525-5884 (voice) or 525-2951 (TTY), 845 N. Motel Blvd. Las Cruces, NM 88007.

Spanish language interpretation services are now available upon request for participation in Doña Ana County sponsored meetings, events, or activities. Please contact the Constituent Services Department at 525-6163, at least 48 hours prior to the event. Servicios de interpretación en las juntas será disponible por petición. Por favor contactar la Oficina de Servicio a la Comunidad y Constituyentes 525-6163 por lo menos 48 horas por adelantado para pedir este servicio.


**DOÑA ANA COUNTY**
**BOARD OF COUNTY COMMISSIONERS**
Doña Ana County Government Center
845 North Motel Boulevard
Las Cruces, New Mexico 88007
Telephone: (575) 647-7200
Toll-Free: (877) 827-7200

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**Fire & Emergency Services**
Initiating Department

**Nicholas Hempel, Fire Chief**
Contact Person

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**January 22, 2019**
Meeting Date

---

**1**
Agenda Item Number

---

**TITLE OF AGENDA ITEM TO BE CONSIDERED**

KINDER MORGAN PIPELINE RUPTURE AND REMEDIATION

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**SUMMARY OF ITEM TO BE CONSIDERED**
INCLUDING PRESENTATION OF OPTIONS FOR ACTION and ACTION REQUESTED

Presentation on pipeline rupture and remediation by Kinder Morgan, Vice President of Public Affairs, Mr. Allen Fore.

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**DESCRIPTION OF SUPPORTING DOCUMENTATION ATTACHED**

None

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**SUMMARY OF FINANCIAL IMPACT**

None

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**ADMINISTRATIVE REVIEW AND APPROVAL**

_____ Finance

_____ Legal

_____ County Manager/
Agenda Review

_____ Purchasing

_____ Human Resources

Assistant County Manager

_____ Planning

_____ Other

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**DOCUMENT CONTROL**

Original/s for signature? _x_ Yes No
For Recording? __ Yes ___ No

Return original/s to: ___________ Name ___________ Dept.

Send copy of recorded original/s (resolution and ordinances only) to: ___________ Name ___________ Dept.

Deadline for return of document/s? Yes, return by: ___________ or __ No
Fire & Emergency Services
Initiating Department

Nicholas Hempel, Fire Chief
Contact Person

January 22, 2019
Meeting Date

Agenda Item Number

TITLE OF AGENDA ITEM TO BE CONSIDERED

REINSPECTION OF THE COUNTY’S FIRE DISTRICTS BY THE INSURANCE SERVICES OFFICE, INC. (ISO)

SUMMARY OF ITEM TO BE CONSIDERED
INCLUDING PRESENTATION OF OPTIONS FOR ACTION and ACTION REQUESTED

Fire Chief, Nicholas Hempel will provide information regarding ISO ratings and how they are established and determined. The ISO ratings are used to help establish appropriate fire insurance premiums for residential and commercial properties. The presentation will also include information on the benefits for the communities with low ISO ratings, as well as the benefits for the fire stations. Each fire station in the two newly consolidated fire districts will be receiving an ISO audit during the month of January.

DESCRIPTION OF SUPPORTING DOCUMENTATION ATTACHED

Power Point

SUMMARY OF FINANCIAL IMPACT

None

ADMINISTRATIVE REVIEW AND APPROVAL

_____ Finance  _____ Legal  _____ County Manager/
_____ Purchasing  _____ Human Resources  Agenda Review
_____ Planning  _____ Other  Assistant County Manager

DOCUMENT CONTROL

Original/s for signature?  _____ Yes  No  For Recording?  _____ Yes  _____ No
Return original/s to: ______________Name ____________________Dept.
Send copy of recorded original/s (resolution and ordinances only) to: ______________Name ____________________Dept.
Deadline for return of document/s? Yes, return by: ________________ or ___ No
The ISO Rating is used to help establish appropriate fire insurance premiums for residential and commercial properties.

Insurance companies need reliable, up-to-date information about a community’s fire-protection services.

ISO provides the information through the Public Protection Classification (PPC) program.
Public Protection Classification (PPC) Program

• ISO collects information on municipal fire-protection efforts in communities throughout the United States.

• In each community the ISO analyzes the relevant data using our Fire Suppression Rating Schedule (FSRS).

• After the analysis they assign a Public Protection Classification from 1 to 10.
  - **Class 1** represents superior property fire protection.
  - **Class 10** indicates the area's fire-suppression program doesn't meet ISO's minimum criteria.
Public Protection Classification (PPC) Program

• ISO helps the communities evaluate their public fire-protection services by these classifications.

• Provides an objective, countrywide, standard helping fire departments with plans and budgeting for facilities, equipment, and training.

• Securing lower fire insurance premiums for communities with better public protection.
  – Incentives and rewards for communities that choose to improve their firefighting services.

• ISO has extensive information on more than 47,000 fire-response jurisdictions.
Community Benefits

• The PPC Program recognizes the efforts of communities to provide fire protection services for citizens and property owners.

• A community’s investment in fire mitigation is a proven and reliable predicator of future fire losses.

• Insurance companies use PPC information to help establish fair premiums for fire insurance.
  – Offering lower premiums in communities with better protection.
Community Benefits

- By offering economic benefits for communities that invest in their firefighting services, the program provides additional incentives for improving and maintaining public fire protection.

- The program also provides help for fire departments and other public officials as they plan, budget for, and justify improvements.
Community Benefits

• The most significant benefit of the PPC program is its effect on losses.

• Statistical data on insurance losses bears out the relationship between excellent fire protection — as measured by the PPC program — and low fire losses.

• PPC helps communities prepare to fight fires effectively.
How Does PPC Information Affect Individual Insurance Policies?

- ISO’s PPC information plays an important part in the decisions insurers make affecting the underwriting and pricing of property insurance.

- Many U.S. insurance companies use PPC information in one or more of the following ways:
  - To identify opportunities for writing new business
  - To manage the quality of community fire protection across their book of business
  - To review loss experience in various rating territories
  - To offer coverages and establish deductibles for individual homes and businesses
How Does PPC Information Affect Individual Insurance Policies?

• Insurance companies establish the premiums they charge to policyholders.

• The methodology a company uses to calculate premiums for property insurance may depend on the company’s fire loss experience, underwriting guidelines, and marketing strategy.

• Here are some general guidelines to help you understand the benefits of improved PPC ratings for residents and businesses.
How Does PPC Information Affect Individual Insurance Policies?

- PPC may affect the underwriting and pricing for a variety of personal and commercial insurance coverages, including:
  - Homeowners
  - Mobile home
  - Fine arts floaters
  - Commercial property (including business interruption)

- Assuming all other factors are equal, the price of property insurance in a community with a good PPC is lower than in a community with a poor PPC.
The PPC Evaluation Process

• To determine a community's PPC the ISO conducts a field survey.

• Expert ISO staff visit the community to observe and evaluate features of the fire protection systems.

• Using a manual called the Fire Suppression Rating Schedule (FSRS) the ISO objectively evaluates four major areas:
  • Emergency communications systems
  • Fire department
  • Water supply
  • Community risk reduction
Emergency Communications Systems

- A review of the emergency communications systems accounts for 10 points of the total classification.

- The review focuses on the community's facilities and support for handling and dispatching alarms for structure fires.
Fire Department

- A review of the fire department accounts for 50 points of the total classification.
  - ISO focuses on a community's fire suppression capabilities.

- They measure suppression capabilities based on the fire department's first-alarm response and initial attack to minimize potential loss.

- ISO reviews such items as:
  - Engine companies
  - Ladder or service companies
  - Deployment of fire companies
  - Equipment carried on apparatus
  - Pumping capacity
  - Reserve apparatus
  - Company personnel
  - Training
Water Supply

• A review of the water supply system accounts for 40 points of the total classification.

• ISO evaluates the community's water supply system to determine the adequacy for fire suppression purposes.

• They also consider:
  • Hydrant size
  • Type
  • Installation
  • Frequency and completeness of hydrant inspection and flow-testing programs
Community Risk Reduction

• They review a community's risk reduction efforts and credit them in the Community Risk Reduction section, which allows for extra credit of up to 5.5 points for a potential total of 105.5.

• That takes into account:
  • Fire prevention code adoption and enforcement
  • Public fire safety education
  • Fire investigation
Split Classifications

• When the ISO develops a single PPC for a community, all community properties receive the same classification.

• In many communities, we develop split classifications, which we revised in 2013 to reflect the risk of loss more precisely.

• An example of the split classification is 4/4X or 4/4Y:
  • The first number refers to the classification of properties within 5 road miles of a fire station and within 1,000 feet of a creditable water supply.
  • The second number, with either the X or Y designation, applies to properties within 5 road miles of a fire station but beyond 1,000 feet of a creditable water supply. ISO generally assigns Class 10 to properties beyond 5 road miles.
Water Class 10W

- ISO has created a new water class based on our ongoing research and loss experience analysis within our PPC program.

- ISO data shows that risks located more than 5 but less than 7 road miles from a responding fire station with a creditable water source within 1,000 feet had better loss experience than those farther than 5 road miles from a responding fire station with no creditable water source.

- The new classification — 10W — recognizes the reduced loss potential of such properties.
Water Class 10W

- Class 10W is property-specific:
  - Not all properties in the 5-to-7-mile area around the responding fire station will qualify.
  - The difference between Class 10 and 10W is that the 10W-graded risk or property is within 1,000 feet of a creditable water supply.
  - Water supplies may include fire protection systems using hauled water when those systems meet the minimum criteria for mobile water supplies in the non-hydranted areas.
  - 10W gives credit to those risks and is reflective of the potential for reduced property insurance premiums.
Scores and PPC Ratings

• ISO’s Fire Suppression Rating Schedule (FSRS) lists a large number of items a community should have to fight fires effectively and assigns credit points for each item.

• Using those credit points and various formulas the ISO calculates a total score on a scale of 0 to 105.5.

• To receive certain PPC ratings, a community must meet minimum criteria:
  • Minimum facilities and practices to get a PPC rating
  • Minimum criteria for Class 9
  • Minimum criteria for Class 8B
  • Minimum criteria for Class 8 or better
Scores and PPC Ratings

After a community meets those criteria, the PPC depends on the community’s score on the 100-point scale:

- PPC Points:
  - 90.00 or more
  - 80.00 to 89.99
  - 70.00 to 79.99
  - 60.00 to 69.99
  - 50.00 to 59.99
  - 40.00 to 49.99
  - 30.00 to 39.99
  - 20.00 to 29.99
  - 10.00 to 19.99
  - 0.00 to 9.99
Final Steps

• After completing the field survey, ISO analyzes the data and calculates a PPC.

• The grading then undergoes a quality review. The standard review takes from 4 to 6 months.

• The community will receive a notification letter identifying the new PPC. ISO also provides a hydrant-flow summary sheet, along with a Public Protection Classification Summary Report.

• The summary explains each subcategory and indicates the total points the community earned.

• The report also indicates the performance needed to receive full credit for each specific section in the schedule, as well as the quantity actually provided.
Current Status

• The ISO inspections begin today
• Evaluation of 14 stations will happen over this week
  – Training
  – Equipment
  – Responses
  – Water systems/Hydrants
• ISO is committed to expediting their review
Current Status

- State Fire Marshal inspects stations and equipment for compliance with state requirements
- When the ISO results are published the State Fire Marshal will fund the fire stations at the new ratings
- Commission and Community will be notified when the county receives the new ratings
- The results will provide a road map to improving County Fire Services
TITLE OF AGENDA ITEM TO BE CONSIDERED
CORIZON HEALTH CARE OVERVIEW REGARDING BEHAVIORAL HEALTH AND MEDICAL SERVICES CURRENTLY PROVIDED WITHIN THE DETENTION CENTER

SUMMARY OF ITEM TO BE CONSIDERED
INCLUDING PRESENTATION OF OPTIONS FOR ACTION and ACTION REQUESTED
Corizon Health Care shall be presenting information to the Board of County Commissioners regarding the types of behavioral health and medical services afforded to detainees housed within the county detention facility.

DESCRIPTION OF SUPPORTING DOCUMENTATION ATTACHED
Power Point Presentation

SUMMARY OF FINANCIAL IMPACT
No Financial Impact

ADMINISTRATIVE REVIEW AND APPROVAL

Original/s for signature? Yes For Recording? 
Return original/s to: Vince Pokluda
Send copy of recorded original/s (resolution and ordinances only) to: Legal Department
Deadline for return of document/s? No
Dona Ana County Detention Center
Medical and Mental Health Care
Past/Present/Future
Initial Care Upon Arrival at Detention Center

- Speak with arresting officer
- Fit for Confinement
- Complete a medical and mental health screening
- Treatment Plan developed & initiated
- Medications ordered
- Appointments scheduled as needed
- Community Resource Information provided
- Ongoing care provided
Continual Growth and Enhancements of Services

+ Total on site encounters – Adult Facility
  - 2009 = 65,469
  - 2018 = 168,033
    - 107,532 Local
    - 60,501 US Marshalls

+ Dental
  - 2009 = 855
  - 2018 = 1088
    - 814 Local
    - 274 US Marshalls

+ Nursing
  - 2009 = 55,775
  - 2018 = 66,421
    - 53,569 Local
    - 12,852 US Marshalls
Continual growth and enhancements of services

**Medical Provider**
- 2009 = 5276
- 2018 = 11,518
  - 8,486 Local
  - 3,032 US Marshalls

**Mental Health – Adult Facility**
- 2009 = 4,641
- 2018 = 65,469
  - 39,852 Local
  - 25,617 US Marshalls
Medical Care

• Providers – Physician and 2 Nurse Practitioners
  24/7 availability
  Chronic Care Visits - Initial Care and Follow up
  Ordering Medications, Lab and X-rays as indicated
  Referral to Specialists – cardiologists, urologist, etc.
  Sick Call Visits for acute illness

• 2018 Provider stats – Adult Facility LOCAL ONLY
  1113 Chronic Care Visits completed
  3270 Sick Call Visits completed
  3118 Chart reviews completed
Medical Care

• Nurses
  – Complete intake screening and History and Physicals
  – Pass medications
  – Complete treatments – Blood sugar checks, wound care, vital sign checks, segregation rounds, patient assessments
  – Sick call visits

• 2018 Nursing stats – Adult Facility LOCAL ONLY
  – 8,510 Intake assessments
  – 2,173 History and Physicals
  – 35,592 Treatments
  – 8,263 Sick Call visits
Medical Care

• Drug and Alcohol Withdrawal Protocols

Specific Protocols to monitor patients in withdrawal and provide support medications and care

• 2018 Statistics LOCAL ONLY

- 837 Opiate withdrawal patients
- 336 Alcohol withdrawal patients
- 110 Both Opiate and Alcohol withdrawal patients
Mental Health Care

Team members

Psychiatrist
Nurse Practitioner
Qualified Mental Health Professional – Master’s level prepared
Counselors
Re-entry Coordinator – Master’s Level prepared
Mental Health RNs
Mental Health Technicians
Mental Health Care

2018 Statistics Adult Facility LOCAL ONLY

- 832 Psychiatric Evaluation
- 1,830 Psychosocial Evaluation
- 2,445 Treatment planning visits
- 6,209 Qualified Mental Health Professional Follow up visits
- 1,558 Provider follow up visits
- 3,639 Patients at group counseling sessions
- 295 Mental Health Crises Intervention
- 10,000 Segregation Visits
Mental Health Care

2018 Statistics Juvenile Facility LOCAL ONLY

- 46 Psychiatric Evaluation
- 35 Psychosocial Evaluation
- 2 Treatment planning visits
- 49 Qualified Mental Health Professional Follow up visits
- 63 Provider follow up visits
- 119 Patients at group counseling sessions
- 4 Mental Health Crises Intervention
Mental Health Care

Comprehensive Suicide Prevention Program

• 2018 Adult Facility
• 332 patients placed on suicide watch
  – 211 Suicidal Ideation with Plan
  – 70 Suicidal Ideation NO Plan
  – 45 Non Suicidal Self Injury/Non injury (gesture)
  – 6 Suicidal Attempt

• 52 Patients placed on Homicidal Watch
  – 10 Homicidal Ideation with Target
  – 42 Homicidal Ideation No Target
  – 0 Homicidal Attempt
Mental Health Care

Comprehensive Suicide Prevention Program

- 2018 Juvenile Facility
- 21 patients placed on suicide watch
  - 10 Suicidal Ideation with Plan
  - 6 Suicidal Ideation NO Plan
  - 5 Non Suicidal Self Injury/Non injury (gesture)
  - 0 Suicidal Attempt

- No Patients placed on Homicidal Watch
Mental Health Care

Mental Health Units Established

- Intensive individual Counseling
- Goal setting each morning
- Goal resolution each afternoon
- Provider follow up
- Modified environment to assist patients
- Positive reinforcement with ability to earn credits to receive items from Commissary free of charge for those attending and participating in groups
Mental Health Care

Weekly Team Meetings

- Attended by Detention Center Staff and Corizon Staff
- All patients on mental health services discussed
- Housing placement discussed with group decision made
- Determine acceptance into mental health units and graduation from mental health unit program
Reentry Services by Reentry Coordinator

Works in collaboration with La Clinica de Familia, Mesilla Valley Hospital, Jail Diversion, Veterans Affairs, and local shelters to establish post release care

Complete Medicaid applications for detainees

Reentry Website for use by families, friends and outside agencies

https://Corizonreentry.com
Possible Utilization of Crises Triage Center

- Consolidation of Medical and Mental Health Services
  - Allow for collaboration between the two disciplines
  - More professional environment
  - Large Waiting room able to accommodate volume
  - Medical – additional and larger exam rooms
  - D-2 unit can be changed back to house detainees

- Post release services when developed
  - Front – Released patients
  - Back – Detention Center patients
Implement creative IT solutions and technology to enhance reentry services

Determine pre-trial detainees with mental health issues for potential release with Court ordered monitoring

Provide post release monitoring until community Core Service Agencies are able to.

Consider providing a voluntary program for individuals taken into protective custody
### TITLE OF AGENDA ITEM TO BE CONSIDERED

OVERVIEW OF THE BRIDGE OF SOUTHERN NEW MEXICO’S MISSION, SUCCESSES AND CURRENT ACTIVITIES

### SUMMARY OF ITEM TO BE CONSIDERED

INCLUDING PRESENTATION OF OPTIONS FOR ACTION and ACTION REQUESTED

Tracey Bryan, President/CEO of The Bridge of Southern New Mexico, will provide an overview of the Bridge’s mission, successes and current activities to support a skilled and ready workforce for the county and region.

### DESCRIPTION OF SUPPORTING DOCUMENTATION ATTACHED

A presentation will be provided, along with handouts of the Joint Regional Workforce Talent Development Plan and Career Pathways for key Industry Sectors.

### SUMMARY OF FINANCIAL IMPACT

None.

### ADMINISTRATIVE REVIEW AND APPROVAL

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<th>County Manager/Agenda Review</th>
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<th>Assistant County Manager</th>
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Deadline for return of document/s? Yes, return by: ________________ or X No
the bridge of Southern New Mexico
The Bridge of Southern New Mexico

Goals

• Support efforts that lead to annual increases in graduation/completion rates for high school, community college, and university students

• Build a diverse, highly skilled workforce that meets the needs of business and fuels future economic development
Goal 1a: Increase High School Graduation Rates

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<th>Location</th>
<th>2007-08</th>
<th>2016-17</th>
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<tbody>
<tr>
<td>Dona Ana County</td>
<td>79%</td>
<td>55%</td>
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<tr>
<td>Las Cruces</td>
<td>65%</td>
<td>68%</td>
</tr>
<tr>
<td>Hatch</td>
<td>86%</td>
<td>65%</td>
</tr>
<tr>
<td>Gadsden</td>
<td>82%</td>
<td>46%</td>
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</table>
Goal 1b: Increase College Completion Rates

FRED

People 25 Years and Over Who Have Completed an Associate's Degree or Higher (5-year estimate) in Dona Ana County, NM
Goal 2

Build a diverse, highly skilled workforce that meets the needs of business and fuels future economic development
Doña County Population in Poverty
According to KidsCount Data

26% Total Population
39% Children Under 17
44% Children Under 4
Borderplex Region (DAC, EPC, Sierra, Luna, Otero)

- Wholesale Trade
- Educational, Services
- Healthcare & Social Assistance
- Construction
- Administration & Support & Waste Management & Rem. Services
- Retail Trade
- Other Services
- Accommodation & Food Services
- Arts, Ent., and Recreation
- Prof., Sci., & Tech. Services

Median Income $38,853
Poverty Line $25,100 for a family of 4
# Top Growing Occupations

<table>
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<tr>
<th>Occupation</th>
<th>Median Annual Estimated Wage</th>
</tr>
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<tbody>
<tr>
<td>Personal Care Aides</td>
<td>$18,800</td>
</tr>
<tr>
<td>Combined Food Preparation and Serving Workers, Including Fast Food</td>
<td>$18,660</td>
</tr>
<tr>
<td>Retail Salespersons</td>
<td>$20,900</td>
</tr>
<tr>
<td>Cashiers</td>
<td>$18,840</td>
</tr>
<tr>
<td>Waiters and Waitresses</td>
<td>$19,020</td>
</tr>
</tbody>
</table>

*Source: NMDWS, Employment Projections program and Occupational Employment Statistics (OES) Program*

Projection data represents Las Cruces MSA (No data available for Doña Ana County, NM)
Wage data represents Las Cruces MSA (No data available for Doña Ana County, NM)
**Doña Ana County** - Doña Ana County is in southern New Mexico and shares a border with Mexico. It covers 3,807 square miles and had a Census 2010 population density of 55 persons per square mile. 

Source: Multiple sources including Workforce Information Supply and Demand.

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<th>%</th>
<th>Demand</th>
<th>73K</th>
<th>10.59%</th>
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<td>5.3%</td>
<td>High</td>
<td>High</td>
<td>High</td>
<td>Low</td>
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</table>

**Supply and Demand**

There are 2.8 candidates available per job opening.

**Jobs Available (2,731)**

**Candidates (7,703)**

ุม = 600 jobs  คน = 600 candidates

Job Source: Online advertised jobs data
Candidate Source: Individuals with active résumés in the workforce system.
Workforce Talent Collaborative
Workforce Talent Collaborative
Economic Development Targets

- Healthcare
- Defense
- Agriculture
- Digital media
- Advanced Manufacturing
- Transportation & Logistics
- Energy
- Aerospace
A Comprehensive Approach to Workforce Talent Development

CULTURE CHANGE
Narrative Change

WORKFORCE TALENT DEVELOPMENT

High School Graduation
ECHS, CTE, DC
Career Certifications and Associates Degrees
2+2, Aggie Pathways
College Graduation
Workforce Solutions/Workforce Innovation Opportunities Act
Opportunity Youth Onramp

STEM/STEAM/STEM-H PROFICIENCY

BUSINESS ENGAGEMENT
(Leadership, Mentorship, Internships, Apprenticeships, Externships)

POLICY
Healthcare Sector Pathways, Partners, and Positions

Dual Credit/CTE Pathways

2+2 program

3+3 program

High School:
Arrowhead Park Medical Academy/
HS CTE Health Pathway

Doña Ana Community College
(DACC): Dent. Assis., Dent.
Hygiene, Em. Med. Svcs, HC/Nursing
Assist., Nursing, Rad. Tech., Resp.

New Mexico State University
(NMSU): College of Health
and Human Svcs

NMSU/ Texas Tech/ Univ. of NM/ St. Francis

Burrell/ University of New Mexico

New Mexico Workforce Connection
A Proud Partner of the American Job Center Network

ACE
(Scholarship Opportunities)

Work-Learn Pathways
(Tuition Asst.)

Residency

Certified Nursing Assistant
$24,000

Patient Care Tech
$27,000

Specialized Tech/ADN
$41,000 - $59,000

BSN
$61,000

Physicians Assistant/ Nurse Practitioner
$100,000

MD/ DO
$145,000

Entry Point for Adults and Out-of-School Youth

Traditional Education Pathway

Non-Traditional Education Pathway

Work-Based Learning

Career Opportunities
Aerospace, Space, and Defense Pathways, Partners, and Positions

Dual Credit/CTE Pathways

High School: Arrowhead Park ECHS/CTE Pathways in Aerospace, Computer Information, Electrical Programs, Electronics, HVAC, Welding, Project Lead the Way


New Mexico State University College of Engineering Bachelor, Master, Ph.D.

Continuing Education/Professional Development

2+2 to Applied Degrees

Entry Point for Adults and Out-of-School Youth

New Mexico Workforce Connection

A Proud Partner of the American Job Center Network

Externships (Teachers) / ACE/PLTW Capstone (Scholarship Opportunities) Union-Led Apprenticeships

Paid Internships (Summer) Paid Co-Ops (6 mo.)

Aggie Innovation Space Arrowhead Center (Studio G, Innovation Center)

Trades/Technicians (Welders, HVAC, Shop Fabricators, other support network positions) $36,000 - $56,000

Engineering Technology (Testing & Evaluation, Facilities, Communications, Explosives) $56,000-$85,000

Physicists, Chemists, Engineers (Mechanical, Electrical, Aerospace, Chemical, Computer, Civil, Industrial) $68,000-$112,000

Entrepreneurs

Traditional Education Pathway

Non-Traditional Education Pathway

Work-Based Learning

Career Opportunities

Page 60 of 299
Readjusting Our Focus

College is *not* a destination...
It’s part of the journey.

Success happens at many levels:

- Career certifications
- Associates degrees
- Bachelors degrees and beyond (4-year +)
Good Jobs that Pay without a BA – New Mexico

Median earnings of non-BA workers with good jobs in 2015: $58,000

Who has the good jobs? BA vs. non-BA

- 48% of 139,000 workers with good jobs have at least a BA
- 52% of 151,000 workers without a BA have good jobs
Who Are You Best Positioned to Support?

• Colonias families in the context of the Colonias initiative

• Students and families in the southern and northern parts of the county
  ○ Special attention for young families
WIOA: Leveraging of Existing Resources

• Increased access Workforce Connections through co-location of services at Chaparral, Vado, Del Cerro Centers

• Work with Southwestern Area Workforce Board to ensure DAC is sufficiently funded based on population
Supporting Education and Employment

• South Central Regional Transport’s ability to transport GISD students to internships/DACC’s Las Cruces campuses

• GISD Pilot – Forging the path to K-14/16 through a blended senior year

• Identifying opportunities within your workforce for student internships, apprenticeships, mentorship
Supporting Education and Employment

• Partnering with DACC on STEM-building and career credential programs for unemployed and working adults
You have the power and the resources to become the best, most qualified New Mexico True Talent you can be! We welcome you to explore this unparalleled set of free, online resources to help you build and navigate your own roadmap from school to college to career.
EXPLORING YOUR ROADMAP

Welcome to Doña Ana County’s most comprehensive collection of resources for connecting New Mexico’s youth and young adults, parents, teachers, and businesses with the skills, training, and resources they need to succeed. Connecting our people, New Mexico’s True Talent, to the rich resources we have, is the key to your bright future and ours. No matter who you are or where you are in your journey, there is a wide variety of resources available to you in our virtual one-stop shop.

Resources for Students
Students can make decisions today that put you on a strong path for tomorrow. Check out this wide range of tools available to help navigate from here to there.

Resources for Parents
Doña Ana County is quickly becoming the best place to connect your potential, as well as that of your children, with the very real opportunities for careers in well-paying industries here now and poised for growth.

Resources for Teachers
Connect your students to valuable information and free, on-line resources that can help them build a bridge from choices today to an abundance of career and life opportunities tomorrow.

Resources for Business
Whether you need qualified talent today or a strong pipeline of talent for tomorrow, the whole workforce system is working together like never before.
Connecting the Dots from High School to College to Careers

The Bridge has been at work for the past six years to help connect the dots between education and career readiness – investing in the future of our community by investing in our greatest resources – young people and the institutions that prepare them for life.

Students are looking for purpose and meaning, an identity, and the sooner they connect their natural giftedness and interests with the skills and knowledge available through Doña Ana County’s rich educational assets, the sooner they begin to see who they could be.

Together, we will continue to pursue the most promising practices, tools, and programs for connecting the answers to students’ questions, “What do I want to be when I grow up?” to “What we, as a community, want to be when we grow up.”

We support four interconnected priorities that propel students toward high school, post-secondary, and career success. And we lead a partnership working to meet the overarching community need for a comprehensive plan for workforce development aligned to growing well-paying industries to support the long-term economic strengthening of the region.

Learn more: thebridgeofsnm.org

@thebridgeofsnm
## Approval of Minutes for the Regular Meeting of January 8, 2019.

### Summary of Item to Be Considered

**Title of Agenda Item to Be Considered**

Approval of Minutes for the Regular Meeting of January 8, 2019.

### Description of Supporting Documentation Attached

#### Summary of Financial Impact

### Administrative Review and Approval

- Finance
- Legal
- Purchasing
- Human Resources
- Planning
- Other

#### Document Control

- Original/s for signature? _Yes_ _No_
- For Recording? _Yes_ _No_

Return original/s to: __________________________ Name __________________________ Dept.

Send copy of recorded original/s (resolution and ordinances only) to: __________________________ Name __________________________ Dept.

Deadline for return of document/s? Yes, return by: __________________________ or _No_
MINUTES

Vice-Chair Isabella Solis called the Regular Meeting of the Doña Ana County Board of Commissioners to order at 9:00 a.m., on Tuesday, January 8, 2019, in the Doña Ana County Commission Chambers, 1st Floor, Doña Ana County Government Center, 845 North Motel Boulevard, Las Cruces.

Time: 09:01:56

District 4: Isabella Solis, Vice-Chair - Present
District 2: Ramon S. Gonzalez, Commissioner - Present
District 3: Shannon Reynolds - Present
District 1: Lynn J. Ellins, Commissioner - Present
District 5: Karen M. Trujillo, Commissioner - Present

Invocations: Reverend Richard Catanach, Holy Cross Catholic Church.

Time: 09:02:06

Pledge of Allegiance

Time: 09:03:39

Led by: Commissioner Shannon Reynolds.

Roll Call of Commission Members Present and Determination of Quorum

Time: 09:04:07

Led by: Cindy C. Padilla, Admin. Asst., County Clerk’s Office.

COMMISSION CONVENES AS THE BOARD OF COUNTY COMMISSIONERS AND THE COUNTY BOARD OF FINANCE IN OPEN SESSION.

1. Elect Chairperson and Vice-Chairperson—Nelson J. Goodin, County Attorney, will discuss.

Time: 09:04:33
Vice-Chair Solis asked for nominations for Chair.

**Commissioner Ellins nominated Commissioner Trujillo and no other nominations were given.**

Vice-Chair Solis asked for the Vote:

- Shannon Reynolds, Commissioner - Yes
- Lynn J. Ellins, Commissioner - Yes
- Ramon S. Gonzalez, Commissioner – Yes
- Karen M. Trujillo, Commissioner – Yes
- Isabella Solis, Commissioner – Yes

*Chosen for Chair was Commissioner Karen M. Trujillo.*

Vice-Chair Solis asked for Nominations for Vice-Chair.

Commissioner Gonzalez nominated Commissioner Solis and Commissioner Reynolds nominated Commissioner Ellins.

Vice-Chair Solis asked for the Vote:

- Karen M. Trujillo, Commissioner – Solis
- Shannon Reynolds, Commissioner - Ellins
- Lynn J. Ellins, Commissioner - Ellins
- Ramon S. Gonzalez, Commissioner – Solis
- Isabella Solis, Commissioner – Solis

*Chosen for Vice-Chair was Commissioner Isabella Solis.*

**CHANGES TO THE AGENDA:** Fernando R. Macias, County Manager, will discuss.

**Time:** 09:08:53

**Changes:** Move Item #2 before the Pet Showcase.
Motion for the Change on the Agenda:

Motion: Shannon Reynolds
Second: Ramon S. Gonzalez

Karen M. Trujillo, Commissioner – Yes
Shannon Reynolds, Commissioner -Yes
Lynn J. Ellins, Commissioner - Yes
Ramon S. Gonzalez, Commissioner – Yes
Isabella Solis, Commissioner - Yes

Motion passed

Presentation of NMSU Relations with Doña Ana County—Chancellor Dan E. Arvisu, NMSU, will present.

Time: 09:10:08

PET SHOWCASE: ASCMV Staff will present

Time: 09:26:54

Pet: A 6 year & 11 month old female Rottweiler mix named Moxie who is ready for adoption.

EMPLOYEE RECOGNITION: The Commission will recognize Doña Ana County employees for their years of service to Doña Ana County — Read by Fernando R. Macias, County Manager.

Time: 09:29:05

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Years of Service</th>
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<tbody>
<tr>
<td>Jesus Aguirre</td>
<td>Detention Center</td>
<td>5</td>
</tr>
<tr>
<td>Raymundo Melendez</td>
<td>Facilities &amp; Parks</td>
<td>5</td>
</tr>
<tr>
<td>Luis Lopez</td>
<td>Engineering</td>
<td>10</td>
</tr>
<tr>
<td>Jamie Michael</td>
<td>Health &amp; Human Services</td>
<td>10</td>
</tr>
<tr>
<td>Alan Lozano</td>
<td>Detention Center</td>
<td>15</td>
</tr>
<tr>
<td>Arturo Perea</td>
<td>Detention Center</td>
<td>15</td>
</tr>
<tr>
<td>Ruben Olivas</td>
<td>Engineering</td>
<td>15</td>
</tr>
</tbody>
</table>
PUBLIC INPUT

Time: 09:46:51


*In order to listen to Public Input comments go to Doña Ana County website: https://donanacounty.org/bocc/video.

STAFF INPUT

Time: 10:04:11

Given by: 1) Jamie Michael, HHS Director.

*In order to listen to Staff Input comments go to Doña Ana County website: https://donanacounty.org/bocc/video.

COUNTY ELECTED OFFICIALS’ INPUT

Time: 10:06:04

Given by: 1) Eric Rodriguez, Treasurer and 2) Diana Bustamante, Probate Judge.

*In order to listen to County Elected Officials’ Input comments go to Doña Ana County website: https://donanacounty.org/bocc/video.

COMMISSION INPUT

Time: 10:09:38

Given by: 1) Shannon Reynolds 2) Isabella Solis 3) Ramon Gonzalez and 4) Lynn Ellins.

NOTE: Chair Trujillo stated that she would make comment at the end of the Meeting.

*In order to listen to Commission Input comments go to Doña Ana County website: https://donanacounty.org/bocc/video.

PRESENTATIONS

2. Presentation of NMSU Relations with Doña Ana County—Chancellor Dan E. Arvisu, NMSU, will present.
NOTE: Item #2 was moved before the Pet Showcase.


Time: 10:15:49

Public Input

Time: 10:33:10

Given by: 1) Steve Fischmann, PRC Commissioner

4. Presentation Related to Kinder Morgan Pipeline Rupture—Nicholas Hempel, Fire Chief, Justin Ball, Acting Program Manager of the Remediation Oversight Section of the Ground Water Quality Bureau and Dezbah Jesus, Project Manager, will present.

Time: 10:36:28

Public Input

Time: 11:06:52

Given by: 1) Bob Hearn.

5. Present Annual Report for the County’s Healthcare Assistance Program—Jamie Michael, Health and Human Services Department, will present.

Time: 11:11:40
CONSENT AGENDA

Time: 11:30:06

Items Removed for Separate Discussion or Separate Vote: Items #12, #13, #14 & #15.

6. Approve Minutes for the Regular Meeting of December 11, 2018 – Clerk’s Office.

7. Approve an Annual Resolution Establishing Notice Requirements for Doña Ana County Board of County Commissioners Meetings for 2019—Nelson J. Goodin, County Attorney, will discuss.

RESOLUTION NO. 2019-01

8. Approve Annual Resolution Directing the Preparation of a Statement of the Receipts and Expenditures of Doña Ana County for the Previous Year—Nelson J. Goodin, County Attorney, will discuss.

RESOLUTION NO. 2019-02


RESOLUTION NO. 2019-03

10. Approve Resolution Authorizing the County Manager to Review and Act Upon Special Dispenser Permit Applications on Behalf of the Board of County Commissioners—Nelson J. Goodin, County Attorney, will discuss.

RESOLUTION NO. 2019-04

11. Re-Appoint William J. Helwig and Appoint Richard Ferrary to the Doña Ana County Labor Management Relations Board—Karen Archuleta, HR Administrator, will discuss.

12. Approve Award of Bid #19-0020 to Bound Tree and Life-Assist for Medical Supplies and Pharmaceutical Drugs and Delegate Signature Authority to the County Manager for Related Contract Documents—Nicholas Hempel, Fire Chief, will discuss.

NOTE: Item #12 was Move for Separate Discussion and Separate Vote after the Consent Agenda.

13. Accept Grant Funds from the Paso Del Norte Health Foundation and Approve Budget Revision and Resolution for the Think Change Initiative: Nuestras Emociones—Jamie Michael, Health and Human Services Director, will discuss.

NOTE: Item #13 was Move for Separate Discussion and Separate Vote after the Consent Agenda.
14. Approve Award of Contracts for Psychiatric Inpatient Care Services Under the Healthcare Assistance Program to BHC Mesilla Valley Hospital and SBH El Paso LLC DBA Peak Behavioral Health Services LLC, and Designate Signature Authority to the County Manager—Jamie Michael, Health and Human Services Director, will discuss.

NOTE: Item #14 was Move for Separate Discussion and Separate Vote after the Consent Agenda.

15. Approve Award of a Contract for Graduate Medical Education Program Development to the Southwest Center for Health Innovation and Designate Signature Authority to the County Manager—Jamie Michael, Health and Human Services Director, will discuss.

NOTE: Item #15 was Move for Separate Discussion and Separate Vote after the Consent Agenda.

16. Approve the Utilization of the Cooperative Educational Services (CES) to Purchase One 2019 Truck with Animal Control Body and Delegate Signature Authority to the County Manager for Related Contract Documents—Gabriel Silva, Fleet Manager, will discuss.

17. Approve the Utilization of the Cooperative Educational Services (CES) to Purchase One 2019 Truck with Mechanics Body and Delegate Signature Authority to the County Manager for Related Contract Documents—Gabriel Silva, Fleet Manager, will discuss.

18. Approve the Use of State Purchasing Contract #50-000-15-00059 Wagner Equipment for Repairs (Parts and Labor) on Caterpillar Equipment and Delegate Signature Authority to the County Manager for Related Contract Documents, Amendments, and Renewals—Gabriel Silva, Fleet Manager, will discuss.

19. Approve Out-of-State Travel for One Animal Control and Codes Employee to Attend Keep America Beautiful (KAB) Conference in Baltimore, Maryland, February 5-9, 2019—Vicki Lusk, Animal Control and Codes Manager, will discuss.

20. Approve Utilization of Multiple Pricing Agreements to Purchase Vehicles and All Law Enforcement Related Equipment for Eight 2019 Chevy Tahoes and Delegate Signature Authority to the County Manager for all Necessary Documents—Naomi Terry, Department Manager, will discuss.

Motion to Approve Consent Agenda Items 6-11 and 16-20, to include the following:

Approve Minutes for the Regular Meeting of December 11, 2018 – Clerk’s Office.

Approve an Annual Resolution Establishing Notice Requirements for Doña Ana County Board of County Commissioners Meetings for 2019—Nelson J. Goodin, County Attorney, will discuss.

Approve Annual Resolution Directing the Preparation of a Statement of the Receipts and Expenditures of Doña Ana County for the Previous Year—Nelson J. Goodin, County Attorney, will discuss.

Approve an Annual Resolution Imposing a $250 Nonprohibitive License Tax Upon Licensees Operating Pursuant to Provisions of the Liquor Control Act—Nelson J. Goodin, County Attorney, will discuss.

Approve Resolution Authorizing the County Manager to Review and Act Upon Special Dispenser Permit Applications on Behalf of the Board of County Commissioners—Nelson J. Goodin, County Attorney, will discuss.

Re-Appoint William J. Helwig and Appoint Richard Ferrary to the Doña Ana County Labor Management Relations Board—Karen Archuleta, HR Administrator, will discuss.
Approve the Utilization of the Cooperative Educational Services (CES) to Purchase One 2019 Truck with Animal Control Body and Delegate Signature Authority to the County Manager for Related Contract Documents—Gabriel Silva, Fleet Manager, will discuss.

Approve the Utilization of the Cooperative Educational Services (CES) to Purchase One 2019 Truck with Mechanics Body and Delegate Signature Authority to the County Manager for Related Contract Documents—Gabriel Silva, Fleet Manager, will discuss.

Approve the Use of State Purchasing Contract #50-000-15-00059 Wagner Equipment for Repairs (Parts and Labor) on Caterpillar Equipment and Delegate Signature Authority to the County Manager for Related Contract Documents, Amendments, and Renewals—Gabriel Silva, Fleet Manager, will discuss.

Approve Out-of-State Travel for One Animal Control and Codes Employee to Attend Keep America Beautiful (KAB) Conference in Baltimore, Maryland, February 5-9, 2019—Vicki Lusk, Animal Control and Codes Manager, will discuss.

Approve Utilization of Multiple Pricing Agreements to Purchase Vehicles and All Law Enforcement Related Equipment for Eight 2019 Chevy Tahoes and Delegate Signature Authority to the County Manager for all Necessary Documents—Naomi Terry, Department Manager, will discuss.

Motion: Lynn J. Ellins
Second: Isabella Solis

Lynn J. Ellins, Commissioner - Yes
Shannon Reynolds, Commissioner - Yes
Ramon S. Gonzalez, Commissioner – Yes
Isabella Solis, Commissioner - Yes
Karen M. Trujillo, Commissioner – Yes

Motion passed

ITEM #12

Approve Award of Bid #19-0020 to Bound Tree and Life-Assist for Medical Supplies and Pharmaceutical Drugs and Delegate Signature Authority to the County Manager for Related Contract Documents—Nicholas Hempel, Fire Chief, will discuss.

Time: 11:31:56
ITEM #13

Accept Grant Funds from the Paso Del Norte Health Foundation and Approve Budget Revision and Resolution for the Think Change Initiative: Nuestras Emociones—Jamie Michael, Health and Human Services Director, will discuss.

RESOLUTION NO. 2019-05

Time: 11:34:02 and 11:39:03

ITEM #14

Approve Award of a Contract for Graduate Medical Education Program Development to the Southwest Center for Health Innovation and Designate Signature Authority to the County Manager—Jamie Michael, Health and Human Services Director, will discuss.

Time: 11:35:36 and 11:40:19

ITEM #15

Approve the Utilization of the Cooperative Educational Services (CES) to Purchase One 2019 Truck with Animal Control Body and Delegate Signature Authority to the County Manager for Related Contract Documents—Gabriel Silva, Fleet Manager, will discuss.

Time: 11:36:55

Motion to Approve Items 12, 13, 14 & 15:

Motion: Isabella Solis
Second: Lynn J. Ellins

January 8, 2019, BOCC Regular Meeting Minutes
Lynn J. Ellins, Commissioner - Yes
Shannon Reynolds, Commissioner - Yes
Ramon S. Gonzalez, Commissioner – Yes
Isabella Solis, Commissioner - Yes
Karen M. Trujillo, Commissioner – Yes

Motion Passed

APPROVALS

21. Election of a Doña Ana County Elected Official to Replace Enrique “Kiki” Vigil as Doña Ana County’s Representative on the Board of Directors of New Mexico’s Counties—Lindsey Bachman, Chief Deputy Clerk, will discuss.

Time: 11:42:24
Nominated: Eric Rodriquez, Treasurer

RESULTS FROM TALLEY VOTE:

Lynn J. Ellins, Commissioner – Eric Rodriquez
Shannon Reynolds, Commissioner - Eric Rodriquez
Ramon S. Gonzalez, Commissioner – Eric Rodriquez
Isabella Solis, Commissioner - Eric Rodriquez
Karen M. Trujillo, Commissioner - Eric Rodriquez
Diana Bustamante, Probate Judge - Eric Rodriquez
Amanda López Askin, County Clerk - Eric Rodriquez
Eric Rodriquez, Treasurer - Eric Rodriquez
Kim Stewart, Sheriff - Eric Rodriquez
Leticia Duarte Benavidez – did not vote

Elected Representative - Eric Rodriquez.

22. Approve Annual Resolution Superseding Resolution 2018-30 and Confirming the Board’s 2019 Appointments to Various Committees and Joint Governmental Entities—Nelson J. Goodin, County Attorney, will discuss.

Time: 11:50:00
Motion: Isabella Solis
Second: Shannon Reynolds
RESOLUTION NO. 2019-06

23. Approve Annual Resolution Appointing Two Members of the Board of County Commissioners to Conduct an Annual Inspection of the Doña Ana County Detention Center During the 2019 Calendar Year—Nelson J. Goodin, County Attorney, will discuss.

Time: 12:06:45

Appointed: Commissioner Reynolds and Commissioner Ellins

Motion: Isabella Solis
Second: Ramon S. Gonzalez

Lynn J. Ellins, Commissioner - Yes
Shannon Reynolds, Commissioner - Yes
Ramon S. Gonzalez, Commissioner – Yes
Isabella Solis, Commissioner - Yes
Karen M. Trujillo, Commissioner – Yes

RESOLUTION NO. 2019-07

24. Approve Resolution Adopting Second Revised 2020-2024 Infrastructure Capital Improvement Plan (ICIP)—Robert Armijo, Director, will discuss.

Time: 12:10:44

Motion: Isabella Solis
Second: Shannon Reynolds

Lynn J. Ellins, Commissioner - Yes
Shannon Reynolds, Commissioner - Yes
Ramon S. Gonzalez, Commissioner – Yes
Isabella Solis, Commissioner - Yes
Karen M. Trujillo, Commissioner – Yes
Motion passed

RESOLUTION NO. 2019-08

CORRESPONDENCE

25. Cindy C. Padilla, County Clerk’s Office, will present to the Commissioner any claims received by Doña Ana County.

Time: 12:20:55

Claims: 1) Ashton Butler and 2) Rudy Ray Aragon.

COMMISSION COMMENTS

Time: 12:21:16

Chair Trujillo Made Comment.

COMMISSION ADJOURNS AS THE BOARD OF COUNTY COMMISSIONERS AND THE COUNTY BOARD OF FINANCE IN OPEN SESSION.

Time: 12:23:12

Motion: Lynn J. Ellins

Second: Shannon Reynolds

Lynn J. Ellins, Commissioner - Yes
Shannon Reynolds, Commissioner - Yes
Ramon S. Gonzalez, Commissioner – Yes
Isabella Solis, Commissioner - Yes
Karen M. Trujillo, Commissioner – Yes

The Commission Adjourned.

BOARD OF COUNTY COMMISSIONERS OF DOÑA ANA COUNTY, NEW MEXICO

Karen M. Trujillo, Chair, District 5 For/Against

Isabella Solis, Vice-Chair, District 4 For / Against

January 8, 2019, BOCC Regular Meeting Minutes

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Ramon S. Gonzalez, Commissioner, District 2  For / Against

Shannon Reynolds, Commissioner, District 3  For / Against

Lynn J. Ellins, Commissioner, District 1  For / Against

ATTEST:

Amanda López Askin, County Clerk
January 22, 2019

TITLE OF AGENDA ITEM TO BE CONSIDERED
ACCEPT AND APPROVE GRANT AWARD FOR THE COUNTYWIDE READ ACROSS AMERICA DAY PROGRAM FROM BRADY SHINES; APPROVE BUDGET RESOLUTION AND REVISION AND DELEGATE SIGNATURE AUTHORITY TO THE COUNTY MANAGER ON ALL RELATED DOCUMENTS.

SUMMARY OF ITEM TO BE CONSIDERED
INCLUDING PRESENTATION OF OPTIONS FOR ACTION and ACTION REQUESTED
Community and Constituent Services staff submitted a grant application to Brady Shines to support the Countywide Read Across America Day program. Funds will be used to purchase supplies to provide to children who attend the program and books for the libraries of participating schools. Staff requests that BOCC approve and accept the award. Additionally, staff requests delegation of signature authority to the County Manager on all related documents.

DESCRIPTION OF SUPPORTING DOCUMENTATION ATTACHED
Grant Notification Letter
Executive Summary
Budget Revision and Resolution

SUMMARY OF FINANCIAL IMPACT
Grant revenue and expenditures will increase by $6,516.60 resulting in a net impact of zero.

ADMINISTRATIVE REVIEW AND APPROVAL


DOCUMENT CONTROL
Original/s for signature? ☐ Yes ☐ No
For Recording? ☐ Yes ☐ No
Return original/s to: Name Dept.
Send copy of recorded original/s (resolution and ordinances only) to: Name Dept.
Deadline for return of document/s? Yes, return by: or ☐ No

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December 26, 2018

Dona Ana County Community and Constituent Services Office
Liz Reed
845 North Motel Boulevard
Las Cruces, NM 88007

Dear Ms. Reed:

On behalf of the Brady Shines selection committee, it is our great pleasure to inform you that a grant in the amount of $6,516.60 has been approved for your organization.

The decision-making process was difficult, with many worthwhile programs having applied to Brady Shines. After vetting your non-profit thoroughly, we are proud to support you with this endowment.

Your signature below acknowledges recognition of this grant and your agreement that grant funds will be used in accordance to the program described in your application.

We welcome the opportunity to partner with you in the future and invite you to share progress with the Brady Shines team.

Also attached for your review is a press release we will deploy upon receipt of your signed agreement.

Brady Shines is proud to support the Dona Ana County Community and Constituent Services Office.
Thank you for the tremendous work you do for our communities.

Sincerely,

Travis Brady
President, CEO

Michelle Harrison
Vice President of Marketing

ACCEPTED BY: ____________________________
Name and Title Date
FOR IMMEDIATE RELEASE

Contact: Michelle Harrison, Vice President of Marketing – michelle.harrison@bradyindustries.com

December 28, 2018

Brady Shines Awards Seven Deserving Organizations in Next Grant Cycle

Las Vegas – Brady, a full-line janitorial supply, equipment and foodservice distributor, which announced its charitable giving campaign “Brady Shines” as part of its 70th Anniversary celebration in 2017, is thrilled to announce the beneficiaries from its fifth grant cycle September - November. More than 100 applications from all Brady territories were submitted applying for funds to benefit education- and youth-based organizations.

“Brady has dedicated $20,000 per cycle to support non-profits focused on education, youth programs and more,” said Travis Brady, President and CEO. “Our internal committee reviews all submissions and determines the distribution of funds based on a variety of factors. We are so proud to be supporting these tremendous organizations.”

- **Dona Ana County Community** – Las Cruces, NM
  - Funds will support Read Across America Day on March 2nd in honor of Dr. Seuss’ birthday including books for elementary school libraries. This event also serves as a career day in rural communities.

- **Elizabeth Academy** – Salt Lake City, UT
  - A Montessori school focused on inclusion for all children, grant dollars will support their Early Intervention and Integrated Therapy Services. These unique programs are customized for children who have been diagnosed with disabilities and provide speech, educational and behavioral therapies.

- **HopeCam** – Reston, VA
  - Their mission is to overcome the isolation children with cancer experience using technology to connect them with their schools. As part of their 15th anniversary in 2019, funds will support their Give Hope, Get Connected project providing tablets and internet access for sick children in need.

- **Living Grace Homes** – Henderson, NV
  - Providing safety and services for pregnant and parenting young women, LGH will use Brady Shines funds on programs to move young mothers from poverty to self-sufficiency. Services include legal support, medical care, and education.

- **New Day Lutheran Church** – Idaho Falls, ID
  - Funds will support their Summer Food Program providing meals to children in need increasing service to 5 days a week and a goal of 1,000 meals to hungry kids.

- **Will2Walk Foundation** – Gilbert, AZ
  - To keep children with Spinal Cord Injuries active, fit and independent, Brady Shines funds will support Wheels Up Youth Club giving kids with SCI the chance to interact with each other at monthly activities.
Executive Summary
Acceptance of Brady Shines Grant
Fiscal Year 2019

Brady Shines has awarded Doña Ana County Community and Constituent Services (CCS) Office a $6,516.60 grant. Funds awarded will be used to purchase supplies for Countywide Read Across America Day (RAAD), a literacy outreach program.

In response to an Annie E. Casey Foundation report that fourth grade students are not proficient in reading in the State of New Mexico, the CCS staff, with support of County management, developed the Countywide Read Across America Day initiative. Through collaborative partnerships with County staff, elected officials, the three school districts, private schools, and external agencies, the Countywide RAAD initiative has reached over 7,000 elementary school students since it began in 2016.
DOÑA ANA COUNTY
BUDGET REVISIONS
(STD 1001 - Updated 06/18/18)

Meeting Date: January 22, 2019
FUND/ORGANIZATION: Community Services / Brady Shines

1.) Item was □ was not ☑ included in the department's original budget request.

2.) Type of Revenue/Expenditure:
   □ R - Recurring items which will occur more than once
   ☑ OT - Non-recurring for one-time items that are unlikely to occur again

3.) Type of Adjustment:
   □ A.) Inter-departmental transfer (between funds or different departments)
   ☑ B.) Supplemental appropriation (new funds requested from new revenue sources)
   □ C.) Use of Cash Reserves (fund request from reserves)
   □ D.) Intra-departmental transfer (within department budget)

4.) The Budget Adjustment Requested Will Require The Following Revisions:

<table>
<thead>
<tr>
<th>ACCOUNT NUMBER/NAME</th>
<th>AVAILABLE BUDGET BALANCE</th>
<th>INCREASE OR &lt;DECREASE&gt;</th>
<th>REVISED AVAILABLE BALANCE</th>
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<td>10008-45731-53176-450 Grant Revenue</td>
<td>$0.00</td>
<td>$6,516.60</td>
<td>$6,516.60</td>
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<tr>
<td>Total - Revenues</td>
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<td>$6,516.60</td>
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<tr>
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<td>$6,516.60</td>
<td>$6,516.60</td>
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<tr>
<td>TOTAL EXPENDITURES</td>
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<td>$(6,516.60)</td>
<td>$(6,516.60)</td>
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<tr>
<td>TOTAL - EXPENDITURES</td>
<td>$0.00</td>
<td>$6,516.60</td>
<td>$6,516.60</td>
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<tr>
<td>TOTAL - REVENUE (PLUS)</td>
<td>$0.00</td>
<td>$6,516.60</td>
<td>$6,516.60</td>
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<tr>
<td>GRAND TOTALS (NET EFFECT) -</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
</tr>
</tbody>
</table>

5.) Reasons For the Budget Adjustment Requests:

The funds are to be used to support the Countywide Read Across America Day program. The purpose of this literacy outreach program is to encourage children to read, connect the younger generation to government, serve as a Career Day and demonstrate the importance of learning. The adjustment is needed because this grant was not included in the Fiscal Year 2019 budget.

6.) Approval Requested By: [Signature] Date: 1/3/19

7.) Approved By Budget Office: [Signature] Date: 1-7-19

8.) Approved By Finance Director: [Signature] Date: 

9.) Approved By County Manager: [Signature] (Resolution Number) Date: 

Page 89 of 299
WHEREAS, the governing body in and for the County of Doña Ana, State of New Mexico, has developed a budget revision attached hereto for the fiscal year 2018 –2019; and

WHEREAS, said budget revision was developed on the basis of need of the County; and

WHEREAS, it is the majority opinion of this Board that the proposed budget revision meets the requirements as currently determined for the fiscal year 2018 – 2019.

NOW THEREFORE, BE IT RESOLVED that the Board of County Commissioners of Doña Ana County, State of New Mexico, hereby adopts this budget revision attached hereto and respectfully requests approval from the Local Government Division of the Department of Finance and Administration.

Resolved in the Board session this 22nd of January, 2019

BOARD OF COUNTY COMMISSIONERS OF
DOÑA ANA COUNTY, NEW MEXICO

Dr. Karen M. Trujillo, District 5, Chairwoman For/Against

Isabella A. Solis, District 4, Vice Chairwoman For/Against

Lynn J. Ellins, District 1 For/Against

Ramon S. Gonzalez, District 2 For/Against

Shannon Reynolds, District 3 For/Against

ATTEST:

Amanda López Askin, Ph.D.
County Clerk
Title of Agenda Item to Be Considered
APPROVE LEASE AGREEMENT WITH ENCHANTED TECHNOLOGY SOLUTIONS AND
DELEGATE SIGNATURE AUTHORITY TO THE COUNTY MANAGER TO SIGN ALL RELATED
DOCUMENTS

Summary of Item to Be Considered
Including Presentation of Options for Action and Action Requested
The Board is asked to approve lease agreement with Enchanted Technology Solutions for the lease of 20
Panasonic Toughbook computers and printers and to authorize signature authority to the County Manager to
sign all necessary documents. This is a 48 month lease with monthly payments of $2,404.39. Four months of
the lease payment will be made in FY19 totaling $9,617.56. Equipment will be provided by Enchanted
Technology Solutions, LLC (ETS) in strict adherence with PEPPM Bid #527240.

Description of Supporting Documentation Attached
• Lessor Enchanted Technology (ETS) assignment to Huntington Technology Finance, Inc. Lease Agreement
• ETS Equipment quote

Summary of Financial Impact
All amounts are included in the current FY19 budgets.
10001-20501-72439-200 Non-Capital Lease $6,732.32, 10001-40104-72439-400 Non-Capital Lease $1,442.64,
10030-40732-72439-400 Non-Capital Lease $1,442.64

Administrative Review and Approval

Document Control
Originals for signature? Yes No For Recording? Yes No
Return original(s) to: ___________________________Name ___________________________Dept.
Send copy of recorded original(s) (resolution and ordinances only) to: ___________________________Name ___________________________Dept.
Deadline for return of document(s)? Yes, return by: ___________________________or No
Executive Summary
Agenda Item
Approval for Lease Agreement with Enchanted Technology Solutions

Animal Control and Codes Enforcement is requesting approval to enter into a 48 month lease agreement for the lease of 20 Panasonic Toughbook computers and printers and to authorize the County Manager to sign all related documents.

The PEPPM National Cooperative, a Board approved purchasing cooperative, approved vendor Enchanted Technology Solutions will assign the agreement to Huntington Technology Finance.

Animal Control and Environmental Codes Officers use mobile computers and printers in their assigned County trucks on a daily basis. They are connected to the mobile software through Mesilla Valley Regional Dispatch to receive animal related and environmental calls for service. Dispatch operators work closely with our field officers to ensure complete information and efficient response to calls. The computers also allow officers access in the field to their work emails.

Currently used mobile computers are outdated and due to the frequent changes and enhancements in technology, it is more cost effective to lease this type equipment rather than purchase.
Via Email:

December 18, 2018 v2

Ms. Vicki Lusk
Dona Ana County Animal Control and Codes
Dona Ana County, NM
845 N Motel Blvd.
Las Cruces, NM 88007

Re: Panasonic Toughbook (20) CF-33 Requirement

Dear Ms. Lusk:

On behalf of Huntington Technology Finance, I am pleased to present you with the following proposal.

Lessor: Enchanted Technology Solutions, LLC ("ETS")
Assignee: Huntington Technology Finance, Inc. ("HTF")
Lessee: Dona Ana County, NM ("Dona Ana")
Vendor: Enchanted Technology Solutions, LLC ("ETS") & Code 3 Service, LLC ("Code3")

Equipment: (20) Panasonic Toughbook CF-33 & Printer Solution*

*Please see ETS quote no. QU-180068v2, dated 11-26-18, for detailed equipment configuration and sale price information.

This equipment will be provided new and direct from the manufacturer.

Total Amount Financed: $103,059.80

Anticipated Delivery Date: Assumed installation date is on or before April 30, 2019

Terms & Conditions: - Rental payments made monthly, in advance
- Assumed commencement date is May 1, 2019
- Fair-market-value end of term options
Lease Pricing:

### (36) Month Term*

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Term</th>
<th>OEC</th>
<th>LRF</th>
<th>Monthly Rental</th>
<th>End of Term</th>
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</thead>
<tbody>
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<td>(20) Toughbook CF-33 Solution</td>
<td>36 Months</td>
<td>$103,059.80</td>
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<td>$3,037.17</td>
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</table>

*Sum of (12) payments: $36,446.07
*Sum of (36) payments: $109,338.20

### (48) Month Term*

<table>
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<th>LRF</th>
<th>Monthly Rental</th>
<th>End of Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>(20) Toughbook CF-33 Solution</td>
<td>48 Months</td>
<td>$103,059.80</td>
<td>.02333</td>
<td>$2,404.39</td>
<td>FMV</td>
</tr>
</tbody>
</table>

*Sum of (12) payments: $28,852.62
*Sum of (48) payments: $115,410.49

### (60) Month Term*

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Term</th>
<th>OEC</th>
<th>LRF</th>
<th>Monthly Rental</th>
<th>End of Term</th>
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<tbody>
<tr>
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<td>60 Months</td>
<td>$103,059.80</td>
<td>.01969</td>
<td>$2,029.25</td>
<td>FMV</td>
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</table>

*Sum of (12) payments: $24,350.97
*Sum of (60) payments: $121,754.85

*Lease pricing is subject to use of the Panasonic PEPM contract or another contract that allows for leasing
*The same lease document language and structure used for the DA Sheriff Dept Laptop transaction will be used for this transaction.
*ETS will be the Lessor, HTF will take assignment of the lease transaction directly from ETS
*Dona Ana agrees to sign an Acknowledgement recognizing the assignment between ETS and HTF
*Sale tax is subject to this proposal as it may be required by Dona Ana County, the State of New Mexico or the appropriate NM jurisdiction.
*In the event that NM Sales Tax (Dona Ana County, NM @ 6.75%) is applicable to this transaction, the sales tax amount due will be considered an obligation of the Lessee and the amount due will be included in this lease transaction as a soft cost.
*Final sales tax amounts applicable to this transaction, are subject to final confirmation by the HTF Tax Department.
*Soft Costs include but are not limited to: Services, applicable sales tax, installation, maintenance, travel, IHW & SW support, shipping and any other type of cost line item that is not physical hardware.
*Soft Cost amounts and the allowable hardware/soft cost deal ratio will be subject to the Lessor’s review and approval of the final OEC amounts quoted to the Lessee.

Equipment

Schedules (Contracts): Equipment schedules (contracts) will be issued after HTF receives supplier invoices for the particular schedule.

Net Lease: Unless noted otherwise herein, this quotation is based on a net lease. Transportation, installation, insurance, maintenance, software charges and any applicable taxes are the responsibility of the Lessee.
Proposal

Expiration: This proposal expires in seven (7) days unless extended in writing by HTF.

This proposal is subject to mutually agreeable documentation.

This quotation is subject to final approval by HTF's Executive Committee at its corporate headquarters.

The lease pricing quoted is subject to a review of the Lessee’s last two years of audited financial statements and subject to final credit approval by the HTF credit department.

All lease pricing is indexed against like-term, US treasury swap rates as of the date of this proposal. If the signed Certificate of Delivery & Acceptance document, relating to this transaction, is not received by (30) day after this proposal date, the lease pricing will be subject to any changes in the index rate. Source: Intercontinental Exchange (http://www.theice.com/marketdata/reports/180)

Upon acceptance of this proposal, please execute the last page of this proposal. Please scan/email or fax the entire executed proposal to my office, (703) 940-8157.

Huntington Technology Finance appreciates the opportunity to be of service to the Dona Ana County. Please do not hesitate to call me if I can be of any further assistance, (703) 204-1001.

Sincerely,

Alex Wiederhorn

Alex I. Wiederhorn
National Account Manager

cc: Mr. Jeff Gallegos, ETS
Ms. Mary Grimes, HTF

ACCEPTED AND AGREED TO:

<table>
<thead>
<tr>
<th>Dona Ana County, NM</th>
<th>Rental / Term</th>
<th>Selection</th>
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</thead>
<tbody>
<tr>
<td>BY:</td>
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</tr>
<tr>
<td>NAME:</td>
<td>$2,404.39 per Mo. / 48 Month Term</td>
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</tr>
<tr>
<td>TITLE:</td>
<td>$2,029.25 per Mo. / 60 Month Term</td>
<td></td>
</tr>
<tr>
<td>DATE:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

This document and its supporting materials are confidential and may be used only for the purpose of evaluating our proposal. The information may not be disclosed to a third party without the express permission of Huntington Technology Finance.
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
<th>Unit Price</th>
<th>Amount USD</th>
</tr>
</thead>
<tbody>
<tr>
<td>CF-33LE-05VM</td>
<td>Public Sector Specific, Win10 Pro, Intel Core i5-7300U 2.60GHz, vPro, 12.0&quot; QHD Gloved Multi Touch+Digitizer, 8GB, 256GB SSD, Intel WiFi a/b/g/n/ac, TPM 2.0, Bluetooth, Dual Pass (Upper:WWAN/Lower:WWAN-GPS), 4G LTE Multi Carrier (EM7455), Infrared Webcam, 8MP Cam, Fingerprint, 2D Bar Laser (N6603), Toughbook Preferred, 3 Year ProService Premier Deployment Service, TabletPC ProPlus Warranty, 256 SSD no return service, and Custom BIOS.</td>
<td>20.00</td>
<td>3,128.03</td>
<td>62,560.60</td>
</tr>
<tr>
<td>CF-VEK331LMP</td>
<td>Premium Keyboard for CF-33. Emissive Red Backlit (4 levels), Handle/kickstand - display can be opened to any angle. Compatible with Tablet, 33 Laptop Vehicle Dock, and 33 Desktop Dock. Ethernet, SDXC (full-size), HDMI, VGA, USB 2.0, USB 3.0 (2), Serial (USB), Power, Docking Connector, Kensington Lock, Tablet Release with Lock/Unlock, Latch Arm. Forward or Reverse-dockable to Convertible Mode</td>
<td>20.00</td>
<td>455.60</td>
<td>9,112.00</td>
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<tr>
<td>H-33-LVD2</td>
<td>Havis laptop 2-in-1 vehicle dock (dual pass) for the Panasonic CF-33. USB 2.0 (4), USB 3.0 (2), Serial, Ethernet (2), HDMI, VGA, Docking Connector, Dual RF, Power, Release Lever, Lock (Keyed alike). Features two front USB ports for easy access. Requires Premium Keyboard (sold separately). MSRP:$1308</td>
<td>20.00</td>
<td>695.77</td>
<td>13,915.40</td>
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<tr>
<td>AP-PAN-CCGPD-Q-BL</td>
<td>AntennaPlus Dual LTE &amp; GPS Antenna Kit. Includes black housing with threaded bolt mount, 15 coax cable, power divider and jumper cable for CF-20, CF-33, CF-54, FZ-G1, FZ-M1, FZ-B2</td>
<td>20.00</td>
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<td>4,430.20</td>
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<tr>
<td>CF-LNDC120</td>
<td>Lind 120 Watt 12-32 Volt Input Car Charger for CF-30, CF-31,CF-33, 4K Mk1, Mk2 (UT-M/FZ-Y1), CF-53 Mk4,</td>
<td>20.00</td>
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<td>2,580.00</td>
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<td>--------------------------------------------------------------------------------</td>
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</tr>
<tr>
<td>CF-54, CF-SX2, CF-F9, CF-19, CF-20, CF-C2, CF-H2, CF-U1, FZ-G1</td>
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</tbody>
</table>
| CF-LNDBRK120  
Lind Mounting Bracket for CF-LNDDC120 (Mfg No: ASMTL-00332)               | 20.00    | 10.68      | 213.60     |
| PJ723-SK-508  
PocketJet 7 Kit, 300 dpi, integrated USB (Includes PocketJet® 7, 300 dpi printer, 6' USB cable, 14' Vehicle Wiring Harness, Documentation Set (w/no CD) with three year warranty for CF-19 , CF-20, CF-C2, CF-31, CF- 53, CF-54 Mk1, FZ-G1, FZ-M1, FZ-R1 | 20.00    | 512.40     | 10,248.00  |

| Subtotal                                                                 | 103,059.80       |
| TOTAL USD                                                               | 103,059.80       |

Terms

PEPPM Contract #527440-025

Order Must be placed per PEPPM's ordering instructions. The ordering instructions can be found in PEPPM's Buyer's Guide. The Buyer's Guide can be found at www.peppm.org via https://www.peppm.org/Products_asdf09876/panasonic/order.pdf. Please visit www.peppm.org to view all info on this contract.

Payment Terms are explained in detail on the PEPPM website.
TITLE OF AGENDA ITEM TO BE CONSIDERED
APPROVE AWARD OF A CONTRACT TO FAMILIES AND YOUTH, INC. FOR A YOUTH INTERVENTION PROGRAM AND DESIGNATE SIGNATURE AUTHORITY TO THE COUNTY MANAGER.

SUMMARY OF ITEM TO BE CONSIDERED
INCLUDING PRESENTATION OF OPTIONS FOR ACTION AND ACTION REQUESTED

The Board is asked to approve award of a contract to Families and Youth, Inc. for a youth intervention program. Request for Proposal (RFP) #19-0026 Youth Intervention Services was issued to solicit interest, advertised in the local paper, and sent to potential Offerors. Two (2) vendors responded. In accordance with 13-1-117 of the Procurement Code, the HHS Department and the Purchasing Office request approval to award RFP 19-0026 to one (1) vendor. Families and Youth, Inc. responded to RFP #19-0026 and was selected by an evaluation committee. The requested amount for a 12-month program is $150,000. The contract for the remainder of FY19 will be negotiated, but will not exceed $75,000 for five (5) months. It is eligible for renewal for up to (4) four years pending BOCC approval each fiscal year.

Additionally, the Board is asked to authorize the County Manager to sign all related contract and budget documents.

DESCRIPTION OF SUPPORTING DOCUMENTATION ATTACHED

Executive Summary
RFP Evaluation Summary Sheet
Proposal Summary

SUMMARY OF FINANCIAL IMPACT
The requested amount of $75,000 is allocated in the FY19 Health Fund budget for this program. The health fund is designated for health and wellness purposes.

ADMINISTRATIVE REVIEW AND APPROVAL

Finance ___ Legal ___ County Manager/
Purchasing ___ Human Resources Agenda Review
Planning ___ HHS

DOCUMENT CONTROL

Original/s for signature? ___ No For Recording? ___ No

Return original/s to: ______________________ Name ______________________ Dept.

Send copy of recorded original/s (resolution and ordinances only) to: ______________________ Name ______________________ Dept.

Deadline for return of document/s? Yes, return by: ________________ or ___ No
Executive Summary

Meeting Date – January 22, 2019

Agenda Item Title – Approve Award of a contract to Families and Youth, Inc. for a youth intervention program, and designate signature authority to county manager.

Overview
The county solicited competitive sealed proposals from qualified organizations to develop a youth intervention program. The purpose of the Youth Intervention program is to target the most at-risk and most in need youth and their families by providing them effective intervention strategies aimed at preventing or reducing high-risk behaviors, acute illness, incarceration, and to improve academic success by increasing the emotional wellbeing and pro-social behavior of youth, ultimately decreasing their involvement in the delinquency and dependency systems. Youth intervention program will be provided to 3rd through 6th graders attending elementary schools in the Gadsden Independent School District. The source of funding for the contract is the Health Fund, and the funds are allocated in the current budget.

Evaluation
The Purchasing office received two (2) proposals from the following vendors Families and Youth, Inc. and La Clinica de Familia. An evaluation committee made up of two external experts and one county staff reviewed the proposals and made recommendations for award. Proposals were evaluated by the committee on the following criteria:

1. Program Summary
2. Agency Qualifications
3. Program Description
4. Supports and Resources/Surrounding Intervention
5. Budget Proposal

After reviewing the proposals, discussing the content, and scoring each proposal, the committee recommended the award of the contract to Families and Youth, Inc.

Scope of Work
Families and Youth, Inc., (FYI) will coordinate and collaborate with the Gadsden Independent School District, the juvenile probation/court, child protective services, and other key stakeholders to develop and implement a comprehensively integrated, robust, and strategically designed youth intervention program. FYI will engage, deliver -and link to - services, the most at-risk and most in need youth and their families within Doña Ana County, particularly youth in grades 3rd – 6th attending Anthony Elementary, Berino Elementary, Gadsden Elementary, Loma Linda Elementary, and North Valley Elementary.

The proposed youth intervention program will utilize qualified staff, effective tools, purposeful and empirically- evidence- based interventions and supports, and strategically align a coordinated and complementary continuum of services aimed to prevent or reduce high-risk behaviors, incarceration, and to improve academic success by increasing the emotional wellbeing and pro-social behavior of youth; ultimately decreasing their involvement in the delinquency and dependency systems. The program summary is attached.
<table>
<thead>
<tr>
<th>Offeror Name</th>
<th>Evaluator</th>
<th>Program Summary</th>
<th>Agency Qualifications</th>
<th>Program Description</th>
<th>Supports Resources</th>
<th>Cost Proposal</th>
<th>NM Preferences</th>
<th>Total Score</th>
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<td>90</td>
<td>100</td>
<td>200</td>
<td>190</td>
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<td></td>
<td>Aaron</td>
<td>65</td>
<td>185</td>
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<td>Jorge</td>
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<td>900</td>
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<table>
<thead>
<tr>
<th>Overall Scores</th>
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<th>Rank</th>
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<td>2</td>
</tr>
<tr>
<td>Families and Youth Inc.</td>
<td>2,595</td>
<td>1</td>
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</table>

Donald E. Bullard, Purchasing Manager
Program Summary

Families and Youth, Inc. (FYI) has been a trusted change agency and a major provider of dynamic, vital, and integral youth and family services in Doña Ana County for over 39 years. Through the efforts detailed in this proposal, FYI will coordinate and collaborate with the Gadsden Independent School District, the juvenile probation/court, child protective services, and other key stakeholders to develop and implement a comprehensively integrated, robust, and strategically designed youth intervention program. FYI will engage, deliver, and link to services, the most at-risk and most in need youth and their families within Doña Ana County, particularly youth in grades 3rd – 6th attending Anthony Elementary, Berino Elementary, Gadsden Elementary, Loma Linda Elementary, and North Valley Elementary.

The proposed youth intervention program will utilize qualified staff, effective tools, purposeful and empirically-evidence-based interventions and supports, and strategically align a coordinated and complementary continuum of services aimed to prevent or reduce high-risk behaviors, incarceration, and to improve academic success by increasing the emotional well-being and pro-social behavior of youth; ultimately decreasing their involvement in the delinquency and dependency systems.

To effectively reach the proposed goals and objectives, FYI will:

1. Provide wraparound and integrated case management services that: Assess/Identify Needs with participation of youth/family, Navigate and Match with available service/resources, Coordinate services, Engage youth/families, and Follow Up to increase academic attendance and performance, prevent or decrease high risk behaviors, and decrease system involvement.

2. Provide skills development services that offer one-to-one or group support for youth to address daily living, social, and communication needs through their participation in recreational, athletic, artistic, education, or social activities of the program through mentors, co-ordination of the services, and other de-escalation techniques.

3. Provide or refer participants for family intervention services to improve the overall well-being of the family with an emphasis on relationship building and effective communication.

4. Purposefully and strategically arrange and guide collaborative efforts with key stakeholders in the program area in order to complement existing services and prevent duplication of efforts, and to develop a "program manual" in which the program plan, design, and structure of youth interventions will provide for replication in other areas of the County.

To support the quality youth and family case management, care coordination, skills development, and intervention services described in this proposal, Families and Youth, Inc. is requesting $150,000 in funding from the County Health and Human Services Department for a 12-month program.
TITLE OF AGENDA ITEM TO BE CONSIDERED
APPROVE MID-YEAR BUDGET REVISION AND BUDGET RESOLUTION FOR THE FY2019 BUDGET

SUMMARY OF ITEM TO BE CONSIDERED
INCLUDING PRESENTATION OF OPTIONS FOR ACTION and ACTION REQUESTED
Approve the Mid-Year Budget Revision and Resolution to properly reflect Fiscal Year 2019 transactions and other corrections as identified by the staff of the County Finance Department. The resolution is necessary to maintain compliance with DFA rules and regulations.

DESCRIPTION OF SUPPORTING DOCUMENTATION ATTACHED
Budget Revision
Budget Resolution
FY19 Mid-Year Justifications

SUMMARY OF FINANCIAL IMPACT
As noted for each Fund/Organization/Account as listed on the Budget Revision Form attached with the Budget Resolution

ADMINISTRATIVE REVIEW AND APPROVAL

DOCUMENT CONTROL
Original/s for signature? ☒ Yes ☐ No For Recording? ☒ Yes ☐ No
Return original/s to: Name Dept.
Send copy of recorded original/s (resolution and ordinances only) to: Name Marisol Richardson Dept. Finance
Deadline for return of document/s? Yes, return by: or ☐ No
**DOÑA ANA COUNTY**
**BUDGET REVISIONS**
(STD 1001 - Updated 03/14/03)

Date: January 22, 2019

FUND/ORGANIZATION/ACCOUNT: Finance/Mid-End Adjustments/Various

ACCOUNT NUMBERS: Various / Various

(FUND NUMBER - ORGANIZATION NUMBER - ACCOUNT NUMBER)

1. Item was **X** included in the department's original budget request.
2. Type of Expenditure:
   - R - Recurring Costs are items which will occur more than once
   - OT - Non-recurring costs are for one-time expenses that are unlikely to occur again
3. Type of Adjustment:
   - A. Inter-departmental transfer (between funds or different departments)
   - B. Supplemental appropriation (new funds requested from new revenue sources)
   - C. Use of Cash Reserves (fund request from reserves)
   - D. Intra-departmental transfer (within department budget)

4. The Budget Adjustment Requested Will Require The Following Revisions:

<table>
<thead>
<tr>
<th>ACCOUNT NUMBER</th>
<th>2) Type Of Expend.</th>
<th>3) Type Of Adjust.</th>
<th>APPROVED BUDGET</th>
<th>INCREASE OR DECREASE</th>
<th>REVISED BUDGET</th>
</tr>
</thead>
<tbody>
<tr>
<td>25145-60101-72395-600</td>
<td>Indigent Fund</td>
<td></td>
<td>2,900,000.00</td>
<td>188,522.30</td>
<td>3,088,522.30</td>
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<tr>
<td>Safety Net Care Pool</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total - Expenditures</strong></td>
<td></td>
<td></td>
<td>2,900,000.00</td>
<td>188,522.30</td>
<td>3,088,522.30</td>
</tr>
</tbody>
</table>

**Reasons For the Budget Adjustment Requests:**
Increase expenditures to cover required contributions to Safety Net Care Pool Fund.

2 Confiscated Assets

<table>
<thead>
<tr>
<th>ACCOUNT NUMBER</th>
<th>2) Type Of Expend.</th>
<th>3) Type Of Adjust.</th>
<th>APPROVED BUDGET</th>
<th>INCREASE OR DECREASE</th>
<th>REVISED BUDGET</th>
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</thead>
<tbody>
<tr>
<td>25210-00000-72411-200</td>
<td>Confiscated Assets</td>
<td></td>
<td></td>
<td>180.00</td>
<td>180.00</td>
</tr>
<tr>
<td>Bank fees</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total - Expenditures</strong></td>
<td></td>
<td></td>
<td></td>
<td>180.00</td>
<td>180.00</td>
</tr>
</tbody>
</table>

**Reasons For the Budget Adjustment Requests:**
To pay bank fees.

3 Talavera Fire District

<table>
<thead>
<tr>
<th>ACCOUNT NUMBER</th>
<th>2) Type Of Expend.</th>
<th>3) Type Of Adjust.</th>
<th>APPROVED BUDGET</th>
<th>INCREASE OR DECREASE</th>
<th>REVISED BUDGET</th>
</tr>
</thead>
<tbody>
<tr>
<td>25590-20222-54230-200</td>
<td>Donations</td>
<td></td>
<td></td>
<td>1,852.45</td>
<td>1,852.45</td>
</tr>
<tr>
<td>Total - Revenues</td>
<td></td>
<td></td>
<td></td>
<td>1,852.45</td>
<td>1,852.45</td>
</tr>
<tr>
<td>25590-20201-72433-200</td>
<td>Misc. Supplies</td>
<td></td>
<td>2,750.00</td>
<td>1,852.45</td>
<td>4,602.45</td>
</tr>
<tr>
<td><strong>Total - Expenditures</strong></td>
<td></td>
<td></td>
<td>2,750.00</td>
<td>1,852.45</td>
<td>4,602.45</td>
</tr>
</tbody>
</table>

**Reasons For the Budget Adjustment Requests:**
The Talavera Fire Station has received donations and must now budget to utilize the donations received.

4 Organ Fire District

<table>
<thead>
<tr>
<th>ACCOUNT NUMBER</th>
<th>2) Type Of Expend.</th>
<th>3) Type Of Adjust.</th>
<th>APPROVED BUDGET</th>
<th>INCREASE OR DECREASE</th>
<th>REVISED BUDGET</th>
</tr>
</thead>
<tbody>
<tr>
<td>25555-20222-54230-200</td>
<td>Donations</td>
<td></td>
<td></td>
<td>2,445.81</td>
<td>2,445.81</td>
</tr>
<tr>
<td>Total - Revenues</td>
<td></td>
<td></td>
<td></td>
<td>2,445.81</td>
<td>2,445.81</td>
</tr>
<tr>
<td>25555-20201-72433-200</td>
<td>Misc. Supplies</td>
<td></td>
<td>2,000.00</td>
<td>2,445.81</td>
<td>4,445.81</td>
</tr>
<tr>
<td><strong>Total - Expenditures</strong></td>
<td></td>
<td></td>
<td>2,000.00</td>
<td>2,445.81</td>
<td>4,445.81</td>
</tr>
</tbody>
</table>

**Reasons For the Budget Adjustment Requests:**
The Organ Fire Station has received donations and must now budget to utilize the donations received.

5 Fairaces/Picacho Fire District

<table>
<thead>
<tr>
<th>ACCOUNT NUMBER</th>
<th>2) Type Of Expend.</th>
<th>3) Type Of Adjust.</th>
<th>APPROVED BUDGET</th>
<th>INCREASE OR DECREASE</th>
<th>REVISED BUDGET</th>
</tr>
</thead>
<tbody>
<tr>
<td>25525-20222-54230-200</td>
<td>Donations</td>
<td></td>
<td></td>
<td>11,353.51</td>
<td>11,353.51</td>
</tr>
<tr>
<td>Total - Revenues</td>
<td></td>
<td></td>
<td></td>
<td>11,353.51</td>
<td>11,353.51</td>
</tr>
<tr>
<td>25525-20222-72433-200</td>
<td>Misc. Supplies</td>
<td></td>
<td>5,000.00</td>
<td></td>
<td>5,000.00</td>
</tr>
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</table>

Reasons For the Budget Adjustment Requests:
<table>
<thead>
<tr>
<th>ACCOUNT NUMBER</th>
<th>2) Type Of Expend.</th>
<th>3) Type Of Adjust.</th>
<th>APPROVED BUDGET</th>
<th>INCREASE OR &lt;DECREASE&gt;</th>
<th>REVISED BUDGET</th>
</tr>
</thead>
<tbody>
<tr>
<td>25525-20222-72476-200</td>
<td>-</td>
<td>-</td>
<td>3,353.51</td>
<td>3,353.51</td>
<td>3,353.51</td>
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<tr>
<td>25525-20222-73035-200</td>
<td>-</td>
<td>-</td>
<td>3,000.00</td>
<td>3,000.00</td>
<td>3,000.00</td>
</tr>
<tr>
<td><strong>Total - Expenditures</strong></td>
<td>-</td>
<td>-</td>
<td>11,353.51</td>
<td>11,353.51</td>
<td>11,353.51</td>
</tr>
</tbody>
</table>

Reasons For the Budget Adjustment Requests:
The Fairace Fire Station has received donations and must now budget to utilize the donations received.

6 Chaparral Fire District
<table>
<thead>
<tr>
<th>ACCOUNT NUMBER</th>
<th>2) Type Of Expend.</th>
<th>3) Type Of Adjust.</th>
<th>APPROVED BUDGET</th>
<th>INCREASE OR &lt;DECREASE&gt;</th>
<th>REVISED BUDGET</th>
</tr>
</thead>
<tbody>
<tr>
<td>25515-20222-54230-200</td>
<td>-</td>
<td>-</td>
<td>500.00</td>
<td>500.00</td>
<td>500.00</td>
</tr>
<tr>
<td><strong>Total - Revenues</strong></td>
<td>-</td>
<td>-</td>
<td>500.00</td>
<td>500.00</td>
<td>500.00</td>
</tr>
<tr>
<td>25515-20222-73035-200</td>
<td>-</td>
<td>-</td>
<td>150.00</td>
<td>150.00</td>
<td>150.00</td>
</tr>
<tr>
<td><strong>Total - Expenditures</strong></td>
<td>-</td>
<td>-</td>
<td>150.00</td>
<td>150.00</td>
<td>150.00</td>
</tr>
</tbody>
</table>

Reasons For the Budget Adjustment Requests:
The Chaparral Fire Station has received donations and must now budget to utilize the donations received.

7 Salem/Ogas WW
<table>
<thead>
<tr>
<th>ACCOUNT NUMBER</th>
<th>2) Type Of Expend.</th>
<th>3) Type Of Adjust.</th>
<th>APPROVED BUDGET</th>
<th>INCREASE OR &lt;DECREASE&gt;</th>
<th>REVISED BUDGET</th>
</tr>
</thead>
<tbody>
<tr>
<td>50043-00000-55294-400</td>
<td>-</td>
<td>-</td>
<td>1,000.00</td>
<td>4,594.94</td>
<td>5,594.94</td>
</tr>
<tr>
<td><strong>Total - Revenues</strong></td>
<td>-</td>
<td>-</td>
<td>1,000.00</td>
<td>4,594.94</td>
<td>5,594.94</td>
</tr>
<tr>
<td>50043-40110-72416-400</td>
<td>-</td>
<td>-</td>
<td>500.00</td>
<td>4,594.94</td>
<td>5,094.94</td>
</tr>
<tr>
<td><strong>Total - Expenditures</strong></td>
<td>-</td>
<td>-</td>
<td>500.00</td>
<td>4,594.94</td>
<td>5,094.94</td>
</tr>
</tbody>
</table>

Reasons For the Budget Adjustment Requests:
Customer paid for a sewer tap installation at 660 Florencio.

8 South Central
<table>
<thead>
<tr>
<th>ACCOUNT NUMBER</th>
<th>2) Type Of Expend.</th>
<th>3) Type Of Adjust.</th>
<th>APPROVED BUDGET</th>
<th>INCREASE OR &lt;DECREASE&gt;</th>
<th>REVISED BUDGET</th>
</tr>
</thead>
<tbody>
<tr>
<td>50044-00000-55294-400</td>
<td>-</td>
<td>-</td>
<td>17,500.00</td>
<td>4,201.26</td>
<td>21,701.26</td>
</tr>
<tr>
<td><strong>Total - Revenues</strong></td>
<td>-</td>
<td>-</td>
<td>17,500.00</td>
<td>4,201.26</td>
<td>21,701.26</td>
</tr>
<tr>
<td>50044-40110-72416-400</td>
<td>-</td>
<td>-</td>
<td>40,000.00</td>
<td>4,201.26</td>
<td>44,201.26</td>
</tr>
<tr>
<td><strong>Total - Expenditures</strong></td>
<td>-</td>
<td>-</td>
<td>40,000.00</td>
<td>4,201.26</td>
<td>44,201.26</td>
</tr>
</tbody>
</table>

Reasons For the Budget Adjustment Requests:
Customer paid for a sewer tap installation at 207 Medina.

9 Salem/Ogas WW and South Central WW
<table>
<thead>
<tr>
<th>ACCOUNT NUMBER</th>
<th>2) Type Of Expend.</th>
<th>3) Type Of Adjust.</th>
<th>APPROVED BUDGET</th>
<th>INCREASE OR &lt;DECREASE&gt;</th>
<th>REVISED BUDGET</th>
</tr>
</thead>
<tbody>
<tr>
<td>50043-40110-72847-400</td>
<td>-</td>
<td>-</td>
<td>99,800.00</td>
<td>(85,000.00)</td>
<td>14,800.00</td>
</tr>
<tr>
<td>50044-40110-72847-400</td>
<td>-</td>
<td>-</td>
<td>378,342.00</td>
<td>191,711.00</td>
<td>570,053.00</td>
</tr>
<tr>
<td><strong>Total - Expenditures</strong></td>
<td>-</td>
<td>-</td>
<td>478,142.00</td>
<td>106,711.00</td>
<td>584,853.00</td>
</tr>
<tr>
<td>50045-00000-82012-400</td>
<td>-</td>
<td>-</td>
<td>85,000.00</td>
<td>(85,000.00)</td>
<td>-</td>
</tr>
<tr>
<td>50044-00000-81011-400</td>
<td>-</td>
<td>-</td>
<td>296,341.00</td>
<td>191,711.00</td>
<td>488,052.00</td>
</tr>
<tr>
<td>50045-00000-82012-400</td>
<td>-</td>
<td>-</td>
<td>133,872.00</td>
<td>(106,711.00)</td>
<td>(240,583.00)</td>
</tr>
<tr>
<td><strong>Total - Transfers</strong></td>
<td>-</td>
<td>-</td>
<td>247,469.00</td>
<td>-</td>
<td>247,469.00</td>
</tr>
</tbody>
</table>

Reasons For the Budget Adjustment Requests:
Repair five lift stations and re-pipping repairs to Vado lift station #7.

10 Fleet
<table>
<thead>
<tr>
<th>ACCOUNT NUMBER</th>
<th>2) Type Of Expend.</th>
<th>3) Type Of Adjust.</th>
<th>APPROVED BUDGET</th>
<th>INCREASE OR &lt;DECREASE&gt;</th>
<th>REVISED BUDGET</th>
</tr>
</thead>
<tbody>
<tr>
<td>60020-30012-74175-900</td>
<td>-</td>
<td>-</td>
<td>269,500.00</td>
<td>98,000.00</td>
<td>367,500.00</td>
</tr>
<tr>
<td><strong>Total - Expenditures</strong></td>
<td>-</td>
<td>-</td>
<td>269,500.00</td>
<td>98,000.00</td>
<td>367,500.00</td>
</tr>
<tr>
<td>ACCOUNT NUMBER</td>
<td>2) Type Of Expend.</td>
<td>3) Type Of Adjust.</td>
<td>APPROVED BUDGET</td>
<td>INCREASE OR &lt;DECREASE&gt;</td>
<td>REVISED BUDGET</td>
</tr>
<tr>
<td>----------------</td>
<td>---------------------</td>
<td>---------------------</td>
<td>-----------------</td>
<td>------------------------</td>
<td>----------------</td>
</tr>
<tr>
<td>60020-00000-81011-300</td>
<td>Transfer Into Fund</td>
<td></td>
<td>1,900,000.00</td>
<td>98,000.00</td>
<td>1,998,000.00</td>
</tr>
<tr>
<td>10004-00000-82012-100</td>
<td>Transfer Out of Fund</td>
<td></td>
<td>(23,621,934.01)</td>
<td>(98,000.00)</td>
<td>(23,719,934.01)</td>
</tr>
<tr>
<td><strong>Total - Transfers</strong></td>
<td></td>
<td></td>
<td><em>(21,721,934.01)</em></td>
<td>-</td>
<td><em>(21,721,934.01)</em></td>
</tr>
</tbody>
</table>

**Reasons For the Budget Adjustment Requests:**

Purchase transport van for Detention Center.

<table>
<thead>
<tr>
<th>11 ) Fleet</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>60020-00000-55216-300</td>
<td>Fuel Costs</td>
<td></td>
<td>660,358.00</td>
<td>100,000.00</td>
</tr>
<tr>
<td>60020-00000-55217-300</td>
<td>Maintenance Costs</td>
<td></td>
<td>1,115,749.00</td>
<td>40,000.00</td>
</tr>
<tr>
<td><strong>Total - Revenues</strong></td>
<td></td>
<td></td>
<td>1,776,107.00</td>
<td>140,000.00</td>
</tr>
<tr>
<td>60020-30012-72820-200</td>
<td>Construction Maintenance</td>
<td></td>
<td>505,265.00</td>
<td>20,000.00</td>
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<tr>
<td>60020-30012-72895-200</td>
<td>Vehicle Maintenance</td>
<td></td>
<td>345,258.63</td>
<td>20,000.00</td>
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<tr>
<td>60020-30012-73110-200</td>
<td>Fuel</td>
<td></td>
<td>597,185.00</td>
<td>100,000.00</td>
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<tr>
<td><strong>Total - Expenditures</strong></td>
<td></td>
<td></td>
<td>1,447,708.63</td>
<td>140,000.00</td>
</tr>
</tbody>
</table>

**Reasons For the Budget Adjustment Requests:**

Increase fuel and maintenance accounts. Fuel in the summer months was much higher than anticipated. Fleet has also expanded the services provided to the Fire department. This change was not accounted for in the budget.

<table>
<thead>
<tr>
<th>12 ) DASO General Fund and Hold Harmless Capital Projects</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>10002-00000-54315-200</td>
<td>Reimbursements</td>
<td></td>
<td>5,000.00</td>
<td>218,852.00</td>
</tr>
<tr>
<td>45070-00000-54315-200</td>
<td>Reimbursements</td>
<td></td>
<td>-</td>
<td>23,617.00</td>
</tr>
<tr>
<td><strong>Total - Revenues</strong></td>
<td></td>
<td></td>
<td>5,000.00</td>
<td>242,469.00</td>
</tr>
<tr>
<td>10002-20101-72835-200</td>
<td>Data Systems Maintenance</td>
<td></td>
<td>143,012.00</td>
<td>218,852.00</td>
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<tr>
<td>45070-20101-74130-900</td>
<td>Capital Outlay Construction</td>
<td></td>
<td>124,976.45</td>
<td>31,489.00</td>
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<tr>
<td><strong>Total - Expenditures</strong></td>
<td></td>
<td></td>
<td>267,988.45</td>
<td>250,341.00</td>
</tr>
</tbody>
</table>

**Reasons For the Budget Adjustment Requests:**

Pay for RMS system maintenance costs and outstanding implementation invoices. The County has a cost-share agreement with the City of Las Cruces and Mesilla Valley Regional Dispatch for these costs. Mesilla Valley Regional Dispatch will reimburse the County for 50% of the costs and the City of Las Cruces will reimburse 25% of the costs.

6.) Approval Requested By: [Signature]

7.) Approved By Finance Dept.: [Signature] Date: 1-15-19

8.) Approved By County Manager: Date: 

9.) Approved by County Commission: [Signature] Date: 

(Resolution Number)
STATE OF NEW MEXICO  
COUNTY OF DOÑA ANA
BUDGET RESOLUTION NO. 2019 ______
2018 – 2019 BUDGET RESOLUTION  
(107th FISCAL YEAR)

WHEREAS, the governing body in and for the County of Doña Ana, State of New Mexico, has developed a budget revision attached hereto for the fiscal year 2018 – 2019; and

WHEREAS, said budget revision was developed on the basis of need of the County; and

WHEREAS, it is the majority opinion of this Board that the proposed budget revision meets the requirements as currently determined for the fiscal year 2018 – 2019.

NOW THEREFORE, BE IT RESOLVED that the Board of County Commissioners of Doña Ana County, State of New Mexico, hereby adopts this budget revision attached hereto and respectfully requests approval from the Local Government Division of the Department of Finance and Administration.

Resolved in the Board session this 22nd of January, 2019.

BOARD OF COUNTY COMMISSIONERS OF 
DOÑA ANA COUNTY, NEW MEXICO

<table>
<thead>
<tr>
<th>Name</th>
<th>District</th>
<th>Chairwoman/Vice Chairwoman</th>
<th>For/Against</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Karen M. Trujillo</td>
<td>District 5</td>
<td>Chairwoman</td>
<td>For/Against</td>
</tr>
<tr>
<td>Isabella A. Solis</td>
<td>District 4</td>
<td>Vice Chairwoman</td>
<td>For/Against</td>
</tr>
<tr>
<td>Lynn J. Ellins</td>
<td>District 1</td>
<td></td>
<td>For/Against</td>
</tr>
<tr>
<td>Ramon S. Gonzalez</td>
<td>District 2</td>
<td></td>
<td>For/Against</td>
</tr>
<tr>
<td>Shannon Reynolds</td>
<td>District 3</td>
<td></td>
<td>For/Against</td>
</tr>
</tbody>
</table>

ATTEST:

Amanda López Askin, Ph.D.  
County Clerk
FY19 Mid-Year Revision Justifications

Items #1 – Indigent Hospital Care
Increase expenditure budget by $188,522.30 to cover required contributions to Safety Net Care Pool Fund. The State requires counties to contribute a match amount equal to 1/12th percent of prior year’s taxable gross receipts.

Items #2 – Confiscated Assets
Increase expenditure budget for bank fees associated with the Confiscated Assets bank account.

Items #3-#6 – Talavera, Organ, Fairaces, and Chaparral Fire Districts
Pursuant to Resolution 2017-53 any donation received by any County Fire District or Fire station shall be turned into the County Finance Department. Talavera, Organ, Fairacres, and Chaparral Fire stations have received donations and now wish to utilize the donations received.

Items #7 – Salem/Ogas WW
Customer paid $4,594.94 for a sewer tap installation at 660 Florencio. The County will hire an outside contractor to complete the sewer tap installation.

Items #8 – South Central WW
Customer paid $4,201.26 for a sewer tap installation at 207 Medina. The County will hire an outside contractor to complete the sewer tap installation.

Items #9 – Salem/Ogas WW and South Central WW
In the South Central area, we recently had the ground collapse around the lift station on Shrode road. The collapse was due to a cast iron fitting rusting out. Due to the event, we had a contractor camera all the lift stations to evaluate if others had this problem. Five lift stations were identified in need of repair. Additionally, the cost for re-piping the repairs to Vado lift station #7 were under budgeted. In order to address these problems $85,000 in general funds is being redirected from the Salem-Ogas area to the South Central area. Additionally, $106,711, from utility reserves is being utilized to address the repairs.

Items #10 - Fleet
Purchase a new transport van to replace the 1989 van in inventory. Vans are used daily to transport inmates to and from court, doctor appointments and other correctional facilities. We must have reliable transportation for these purposes. This vehicle is 28 years old and repairs are a costly expense to the County. Van purchase to be paid from additional revenue received from the equalization tax.

Items #11 - Fleet
The Fleet fund is an internal service fund that tracks maintenance and fuel costs between departments on a cost reimbursement basis. The level of activity in the fund depends on the demand from departments. Fuel and maintenance expenditure budgets need to be increased. In FY2019 Fleet expanded the services provided to the Fire department. In previous years, Fire outsourced some of the maintenance services now provided by Fleet. Additionally, fuel prices in the summer months were much higher than anticipated.
Item #12 - DASO General Fund and Hold Harmless Capital Projects

Beginning in fiscal year 2016 the County dedicated proceeds from the Hold Harmless gross receipt tax to implement the records management system project. The project is now completed; however currently there is roughly $45 thousand in outstanding invoices for implementation costs. There is currently sufficient cash available in the Hold Harmless Capital Projects funds to cover the County’s share of the outstanding invoices. The County has entered into a cost-share agreement with the City of Las Cruces and Mesilla Valley Regional Dispatch for recurring annual expenses such as annual software, maintenance, and system updates and upgrades related to the records management system. The agencies will share the annual costs in the following amounts: County Sheriff’s department will provide 25%, Las Cruces Police Department will provide 25%, and Mesilla Valley Regional Dispatch Authority will provide the final 50% of the cost. Total maintenance and license costs currently due is approximately $283,439. The Sheriff’s office included their portion of the maintenance costs in their existing FY2019 budget.
TITLE OF AGENDA ITEM TO BE CONSIDERED
AUTHORIZE PUBLICATION OF TITLE AND GENERAL SUMMARY TO AMEND CHAPTER 56, INDUSTRIAL REVENUE BONDS, RELATED TO THE APPLICATION FEES AND ANNUAL ADMINISTRATIVE COSTS, AND TO AMEND CHAPTER 179, FEES AND PERMITS, AS IT RELATES TO INDUSTRIAL REVENUE BONDS OF THE DOÑA ANA COUNTY CODE

SUMMARY OF ITEM TO BE CONSIDERED
INCLUDING PRESENTATION OF OPTIONS FOR ACTION and ACTION REQUESTED

NMSA 1978 §3-32-6 authorizes municipalities to issue industrial revenue bonds for companies developing facilities in the unincorporated area of the county out to fifteen miles beyond the city limits. DAC Code §52-12B requires the County to charge an annual administrative fee to any company that seeks and obtains the issuance of industrial revenue bonds. Some municipalities in Doña Ana County do not have that requirement, thus placing the County in a competitive disadvantage. Consequently, companies that get their IRB’s through cities, results in the County being deprived of the property taxes or payments in lieu of taxes (PILT or PILOT) that the County would otherwise receive. These amendments make those fees optional and negotiable rather than mandatory and fixed. Also, the application fee should be increased to keep up with bond counsel’s fees. The BOCC is asked to approve the publication of title and general summary of Amendment To Industrial Revenue Bond Ordinance Provision Pertaining To Annual Administrative Fees, for consideration at a public hearing on February 12, 2019, at 9:00 am in the Commission Chambers.

DESCRIPTION OF SUPPORTING DOCUMENTATION ATTACHED
1) Proposed amendment, 2) publication notice, “Notice of Public Hearing”, 3) Proposed ordinance

SUMMARY OF FINANCIAL IMPACT
The tradeoff between reduced or absence of annual fees versus the increased PILT revenues is uncertain.

ADMINISTRATIVE REVIEW AND APPROVAL

Finance Legal County Manager/Agenda Review
Purchasing Human Resources Assistant County Manager
Planning Other

DOCUMENT CONTROL

Original/s for signature? Yes X No For Recording? Yes X No
Return original/s to: _____________________ Name _____________________ Dept.
Send copy of recorded original/s (resolution and ordinances only) to: _____________________ Name _____________________ Dept.
Deadline for return of document/s? Yes, return by: ________________ or __No
A. With the submission of the application and in addition to any other fees imposed pursuant to applicable ordinances or resolutions, the applicant shall pay to the County a nonrefundable fee as set forth in Chapter 179, Fees and Permits, for its internal administrative and other professional consulting services costs associated with obtaining and completing the analysis and processing required by this policy. These fees include, but are not limited to, County staff time, attorney's fees and financial analyst fees. If the cost of this analysis exceeds the amount set forth in Chapter 179, Fees and Permits, the applicant shall be billed by the County in intervals or in one lump sum for those additional costs which shall be paid by the applicant upon receipt of billing and at the closing on the bond sale. The billed fees charged are intended to cover the County's internal and external expenses incurred through the bond closing and are to be paid whether or not bonds are issued.

B. If the project is approved and bonds are issued and a project agreement lease is entered into by and between the County and the applicant, there shall be charged to the County may charge the applicant and the applicant shall pay an annual administrative fee to the County for its duties and functions associated with administration of the project lease agreement and the bond obligations. That annual administrative fee shall be negotiated by and between the County and the applicant and shall be based upon the estimated number of hours of County staff time to be devoted to such administrative tasks. The amount, at a minimum, will be as set forth in Chapter 179, Fees and Permits. However, that annual administrative fee, once established, is subject to being increased in the event that it is necessary to spend additional County staff time or it is necessary to employ outside professionals because of extraordinary requests or requirements of the applicant or of the bond trustee or government regulatory agencies or because of involvement in litigation concerning the lease or the bonds. Payment by the applicant shall be made upon its receipt of billings from the County for such annual fees and additional costs.

§ 179-1 Schedule of County Code fees.

Fees for services provided by the County shall be as set forth below:

<table>
<thead>
<tr>
<th>Code Chapter/Section</th>
<th>Fee For</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapter 56 — Industrial Revenue Bonds</td>
<td></td>
<td></td>
</tr>
<tr>
<td>§ 56-12A</td>
<td>Application fee</td>
<td>$205,000</td>
</tr>
<tr>
<td>§ 56-12B</td>
<td>Annual administrative costs</td>
<td>$5,000-minimum-negotiable</td>
</tr>
</tbody>
</table>
NOTICE OF PUBLIC HEARING

On January 22, 2019, the Board of County Commissioners of Doña Ana County (BOCC) directed that a public hearing be conducted at their Regular Meeting on February 12, 2019 at 9:00 a.m. on the question of whether to adopt an Amendment to Chapter 56, Industrial Revenue Bonds, Related to the Application Fees and Annual Administrative Costs, and Amendment to Chapter 179, Fees and Permits, as it Relates to Industrial Revenue Bonds of the Doña Ana County Code. The public hearing will be held at the Doña Ana County Government Center located at 845 N. Motel Blvd., Las Cruces, New Mexico.

Should you require special accommodations as a result of a disability, please contact the County ADA Coordinator at 525-5884 (voice), 525-5951 (TTY), or 1-877-827-7200 (toll free), or write to ADA Coordinator, 845 N. Motel Blvd., Las Cruces, New Mexico 88007. Spanish language interpretation services are available upon request. Please contact the Community & Constituent Services Office at 525-6163, at least 48 hours prior to the event. Servicios de interpretación en las juntas será disponible por petición. Por favor en contacto la Oficina de Servicio a la Comunidad y Constituyentes 525-6163 por lo menos 48 horas por adelantado para pedir este servicio.

THE OFFICIAL TITLE OF THE PROPOSED ORDINANCE IS: Amendment to Chapter 56, Industrial Revenue Bonds, Related to the Application Fees and Annual Administrative Costs, and Amendment to Chapter 179, Fees and Permits, as it Relates to Industrial Revenue Bonds of the Doña Ana County Code

GENERAL SUMMARY: NMSA 1978 §3-32-6 authorizes municipalities to issue industrial revenue bonds for companies developing facilities in the unincorporated area of the county out to fifteen miles beyond the city limits. DAC Code §52-12B requires the County to charge an annual administrative fee to any company that seeks and obtains the issuance of industrial revenue bonds. Some municipalities in Doña Ana County do not have that requirement, thus placing the County in a competitive disadvantage. Consequently, companies that get their IRB’s through cities, results in the County being deprived of the property taxes or payments in lieu of taxes (PILT or PILOT) that the County would otherwise receive. These amendments make those fees optional and negotiable rather than mandatory and fixed. The application fee will increase to $25,000.

Written comments may be submitted no later than February 1, 2019 to chuckm@donaanacounty.org to be included in the BOCC packet. Oral comments may be presented at the hearing. A copy of the proposed amendment may be obtained upon payment of an administrative fee at the Office of the County Clerk, Doña Ana County Government Center, 845 N. Motel Blvd., Las Cruces, New Mexico during regular business hours.

Publish: Las Cruces Sun-News on Sunday, January 27, 2019
ORDINANCE AMENDING CHAPTER 56, INDUSTRIAL REVENUE BONDS, RELATED TO THE APPLICATION FEES AND ANNUAL ADMINISTRATIVE COSTS, AND AMENDING CHAPTER 179, FEES AND PERMITS, AS IT RELATES TO INDUSTRIAL REVENUE BONDS OF THE DOÑA ANA COUNTY CODE

Ordinance No. ____-2019

WHEREAS, NMSA 1978 §3-32-6 authorizes municipalities to issue industrial revenue bonds for companies developing facilities in the unincorporated area of the county out to fifteen miles beyond the city limits; and

WHEREAS, DAC Code §52-12B requires the County to charge an annual administrative fee to any company that seeks and obtains the issuance of industrial revenue bonds. Some municipalities in Doña Ana County do not have that requirement, thus placing the County in a competitive disadvantage; and

WHEREAS, companies that get their IRB's through cities, results in the County being deprived of the property taxes or payments in lieu of taxes (PILT or PILOT) that the County would otherwise receive; and

WHEREAS, the Doña Ana County Code should be amended to make those fees optional and negotiable rather than mandatory and fixed; and

WHEREAS, the application fee should be increased to keep up with bond counsel’s fees;

NOW THEREFORE, BE IT ORDAINED, the Board of County Commissioners hereby amends § 56-12 (Application fees and annual administrative costs) and § 179-1 (Schedule of County Code fees) of the Doña Ana County Code, as shown in Exhibit A, which is attached and incorporated herein by reference.

ADOPTED this _______ day of February 2019.

BOARD OF COUNTY COMMISSIONERS OF
DOÑA ANA COUNTY, NEW MEXICO

Dr. Karen M. Trujillo, District 5, Chairwoman For/Against

Isabella A. Solis, District 4, Vice Chairwoman For/Against

1-- Ordinance Amending §56-12 and §179 pertaining to IRB administrative fees
2-- Ordinance Amending §56-12 and §179 pertaining to IRB administrative fees
Chapter 56  Industrial Revenue Bonds
§ 56-12  Application fees and annual administrative costs.

A. With the submission of the application and in addition to any other fees imposed pursuant to applicable ordinances or resolutions, the applicant shall pay to the County a nonrefundable fee as set forth in Chapter 179, Fees and Permits, for its internal administrative and other professional consulting services costs associated with obtaining and completing the analysis and processing required by this policy. These fees include, but are not limited to, County staff time, attorney's fees and financial analyst fees. If the cost of this analysis exceeds the amount set forth in Chapter 179, Fees and Permits, the applicant shall be billed by the County in intervals or in one lump sum for those additional costs which shall be paid by the applicant upon receipt of billing and at the closing on the bond sale. The billed fees charged are intended to cover the County's internal and external expenses incurred through the bond closing and are to be paid whether or not bonds are issued.

B. If the project is approved and bonds are issued and a project agreement lease is entered into by and between the County and the applicant, the County may charge the applicant an annual administrative fee for the County's duties and functions associated with administration of the project lease agreement and the bond obligations. That annual administrative fee shall be negotiated by and between the County and the applicant and shall be based upon the estimated number of hours of County staff time to be devoted to such administrative tasks. However, that annual administrative fee, once established, is subject to being increased in the event that it is necessary to spend additional County staff time or it is necessary to employ outside professionals because of extraordinary requests or requirements of the applicant or of the bond trustee or government regulatory agencies or because of involvement in litigation concerning the lease or the bonds. Payment by the applicant shall be made upon its receipt of billings from the County for such annual fees and additional costs.

§ 179-1  Schedule of County Code fees.

Fees for services provided by the County shall be as set forth below:

<table>
<thead>
<tr>
<th>Code Chapter/Section</th>
<th>Fee For</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapter 56 — Industrial Revenue Bonds</td>
<td></td>
<td></td>
</tr>
<tr>
<td>§ 56-12A</td>
<td>Application fee</td>
<td>$25,000</td>
</tr>
<tr>
<td>§ 56-12B</td>
<td>Annual administrative costs</td>
<td>negotiable</td>
</tr>
</tbody>
</table>

EXHIBIT A

3-- Ordinance Amending §§56-12 and §179 pertaining to IRB administrative fees
TITLE OF AGENDA ITEM TO BE CONSIDERED
CONDUCT A PUBLIC HEARING TO CONSIDER ADOPTING AN ORDINANCE AUTHORIZING A PROPERTY TAX REBATE TO BENEFIT LOW-INCOME PROPERTY TAXPAYERS

SUMMARY OF ITEM TO BE CONSIDERED
INCLUDING PRESENTATION OF OPTIONS FOR ACTION and ACTION REQUESTED
Pursuant to NMSA 1978, § 7-2-14.3 (G.), the Board must conduct a public hearing in January of each odd-numbered year on the question of whether to adopt an ordinance authorizing a property tax rebate to benefit low-income property taxpayers. The Board must authorize publication of a title and summary of the ordinance at least two weeks before it may consider its adoption in a public hearing. The proposed ordinance will authorize an income tax rebate for a percentage of property taxes paid. Taxpayers take advantage of the rebate through a credit on their individual state income tax documents. The County must then reimburse the state for the total amount of the rebates taken by taxpayers.

DESCRIPTION OF SUPPORTING DOCUMENTATION ATTACHED
Section 7-2-14.3 (NMSA 1978)
Proof of Publication
Notice of Radio Broadcast Announcements
Proposed Ordinance
Impact Projections Based on 2016 Tax Year

SUMMARY OF FINANCIAL IMPACT
See Impact Projections Based on 2016 Tax Year

ADMINISTRATIVE REVIEW AND APPROVAL

Originals for signature? Yes No

For Recording? Yes No

Send copy of recorded original(s) (resolution and ordinances only) to: Legal and Finance dept.

Deadline for return of documents? Yes, return by: when recorded or No

Page 115 of 299
7-2-14.3. Tax rebate of part of property tax due from low-income taxpayer; local option; refund.

A. The tax rebate provided by this section may be claimed for the taxable year for which the return is filed by an individual who:
   (1) has his principal place of residence in a county that has adopted an ordinance pursuant to Subsection G of this section;
   (2) is not a dependent of another individual;
   (3) files a return; and
   (4) incurred a property tax liability on his principal place of residence in the taxable year.

B. The tax rebate provided by this section shall be allowed for any individual eligible to claim the refund pursuant to Subsection A of this section and who:
   (1) was not an inmate of a public institution for more than six months during the taxable year;
   (2) was physically present in New Mexico for at least six months during the taxable year for which the rebate is claimed; and
   (3) is eligible for the rebate as a low-income property taxpayer in accordance with the provisions of Subsection D of this section.

C. A husband and wife who file separate returns for the taxable year in which they could have filed a joint return may each claim only one-half of the tax rebate that would have been allowed on the joint return.

D. As used in the table in this subsection, "property tax liability" means the amount of property tax resulting from the imposition of the county and municipal property tax operating impositions on the net taxable value of the taxpayer's principal place of residence calculated for the year for which the rebate is claimed. The tax rebate provided in this section is as specified in the following table:

<table>
<thead>
<tr>
<th>Taxpayer's Modified Gross Income</th>
<th>Property Tax Rebate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Over $0</td>
<td>$8,000</td>
</tr>
<tr>
<td>Over $8,000</td>
<td>75% of property tax liability</td>
</tr>
<tr>
<td>Over $10,000</td>
<td>$10,000</td>
</tr>
<tr>
<td>Over $12,000</td>
<td>70% of property tax liability</td>
</tr>
<tr>
<td>Over $14,000</td>
<td>$12,000</td>
</tr>
<tr>
<td>Over $16,000</td>
<td>65% of property tax liability</td>
</tr>
<tr>
<td>Over $18,000</td>
<td>$14,000</td>
</tr>
<tr>
<td>Over $20,000</td>
<td>60% of property tax liability</td>
</tr>
<tr>
<td>Over $22,000</td>
<td>$16,000</td>
</tr>
<tr>
<td>Over $24,000</td>
<td>55% of property tax liability</td>
</tr>
<tr>
<td>Over $26,000</td>
<td>$18,000</td>
</tr>
<tr>
<td>Over $28,000</td>
<td>50% of property tax liability</td>
</tr>
<tr>
<td>Over $30,000</td>
<td>$20,000</td>
</tr>
<tr>
<td>Over $32,000</td>
<td>45% of property tax liability</td>
</tr>
<tr>
<td>Over $34,000</td>
<td>$22,000</td>
</tr>
<tr>
<td>Over $36,000</td>
<td>40% of property tax liability</td>
</tr>
<tr>
<td>Over $38,000</td>
<td>$24,000</td>
</tr>
<tr>
<td>Over $40,000</td>
<td>35% of property tax liability</td>
</tr>
</tbody>
</table>

E. If a taxpayer's modified gross income is zero, the taxpayer may claim a tax rebate in the amount shown in the first row of the table. The tax rebate provided for in this section shall not exceed three hundred fifty dollars ($350) per return and, if a return is filed separately that could have been filed jointly, the tax rebate shall not exceed one hundred seventy-five dollars ($175).
No tax rebate shall be allowed any taxpayer whose modified gross income exceeds twenty-four thousand dollars ($24,000).

F. The tax rebate provided for in this section may be deducted from the taxpayer's New Mexico income tax liability for the taxable year. If the tax rebate exceeds the taxpayer's income tax liability, the excess shall be refunded to the taxpayer.

G. In January of every odd-numbered year in which a county does not have in effect an ordinance adopted pursuant to this subsection, the board of county commissioners of the county shall conduct a public hearing on the question of whether the property tax rebate provided in this section benefiting low-income property taxpayers in the county should be made available through adoption of a county ordinance. Notice of the public hearing shall be published once at least two weeks prior to the hearing date in at least one newspaper of general circulation in the county and broadcast at some time within the week before the hearing on at least one radio station with substantial broadcasting coverage in the county. At the public hearing, the board shall take action on the question and if a majority of the members elected votes to adopt an ordinance, it shall be adopted no later than thirty days after the public hearing.

H. An ordinance adopted pursuant to Subsection G of this section shall specify the taxable years to which it is applicable. The board of county commissioners adopting an ordinance shall notify the department of the adoption of the ordinance and furnish a copy of the ordinance to the department no later than September 1 of the first taxable year to which the ordinance applies.

I. No later than December 31 of the year immediately following the first year in which the low-income taxpayer property tax rebate provided in the Income Tax Act is in effect for a county, and no later than December 31 of each year thereafter in which the tax rebate is in effect, the department shall certify to the county the amount of the loss of income tax revenue to the state for the previous taxable year attributable to the allowance of property tax rebates to taxpayers of that county. The county shall promptly pay the amount certified to the department. If a county fails to pay the amount certified within thirty days of the date of certification, the department may enforce collection of the amount by action against the county and may withhold from any revenue distribution to the county, not dedicated or pledged, amounts up to the amount certified.

J. As used in this section, "principal place of residence" means the dwelling owned and occupied by the taxpayer and so much of the land surrounding it, not to exceed five acres, as is reasonably necessary for use of the dwelling as a home and may consist of a part of a multidwelling or a multipurpose building and a part of the land upon which it is built.


The 2003 amendment, effective June 20, 2003, substituted "taxable years" for "first taxable year" following "shall specify the" in Subsection H; substituted "December 31" for "July 1" twice in the first sentence of Subsection I.

The 1997 amendment, effective June 20, 1997, revised the table in Subsection D to add the last four income ranges; and in Subsection E, in the second sentence, substituted "three hundred fifty dollars ($350)" for "two hundred fifty dollars ($250)"; substituted "one hundred seventy-five dollars ($175)" for "one hundred twenty-five dollars ($125)"; and in the third sentence substituted "twenty-four thousand dollars ($24,000)" for "sixteen thousand dollars ($16,000)".
AFFIDAVIT OF PUBLICATION

Ad No. 0001272386

DONA ANA COUNTY CLERKS OFFICE
845 MOTEL BLVD ROOM 1-200
LAS CRUCES NM 88007

I, a legal clerk of the Las Cruces Sun-News, a newspaper published daily at the county of Dona Ana, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:

01/02/19

Despondent further states this newspaper is duly qualified to publish legal notice or advertisements within the meaning of Sec. Chapter 167, Laws of 1937.

[Signature]
Legal Clerk
STATE OF WISCONSIN
County of Brown
SS.
Subscribed and sworn before me this 9th of January 2019.

[Signature]
NOTARY PUBLIC in and for
Brown County, Wisconsin

My Commission Expires

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NOTICE OF PUBLIC HEARING

You are hereby notified that the Board of County Commissioners of Dona Ana County, New Mexico (the “Board”), will conduct a public hearing during its regular meeting beginning at 9:00 am. on January 22, 2019, in the Dona Ana County Government Center located at 845 N. Motel Blvd., Las Cruces, New Mexico, to consider whether to approve an ordinance authorizing a property tax rebate to benefit low-income property taxpayers in Dona Ana County.

The title of the ordinance is as follows: An Ordinance Authorizing a Property Tax Rebate to Benefit Low-Income Property Taxpayers for Taxable Years 2018-2019.

SUMMARY: Pursuant to NMSA 1978, § 7-2-14.3 G., the Board must conduct a public hearing in January of each odd-numbered year on the question of whether to adopt an ordinance authorizing a property tax rebate to benefit low-income property taxpayers. The proposed ordinance will authorize an income tax rebate for property taxes paid. Taxpayers take advantage of the rebate through a credit on their individual state income tax documents. The County must then reimburse the state for the total amount of the rebates taken by taxpayers. A copy of the proposed ordinance is available for inspection at the Office of the County Clerk, Dona Ana County Government Center, 845 N. Motel Blvd., Las Cruces, New Mexico, during regular business hours commencing on the first business day after the date of publication and continuing through the date of the public hearing. A copy of the proposed ordinance may be purchased from the County Clerk.

Note: Should you require special accommodations as a result of a disability, please contact the County ADA Coordinator at 647-7210 (voice), 525-5951 (TTY), or 1-877-827-7200.
(toll free), or write to ADA Coordinator, 845 N. Motel Blvd., Las Cruces, New Mexico 88007. Publish: Las Cruces Sun News no later than January 8, 2019, at least two weeks prior to the hearing. Run: Jan. 2, 2019 Ad No.: 1272386
State of New Mexico

: ss.

County of Doña Ana

The undersigned is the Director of Public Information and Special Projects for Doña Ana County, New Mexico.

The Director of Public Information and Special Projects for Doña Ana County made several radio broadcast announcements between January 13 and January 19, 2019, the week prior to the public hearing before the Doña Ana County Board of County Commissioners on January 22, 2019.

Radio broadcast announcements were as follows:

<table>
<thead>
<tr>
<th>Station</th>
<th>Frequency</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>KVLC 101.1 FM</td>
<td>Jan. 16</td>
<td></td>
</tr>
<tr>
<td>KXPZ 99.5 FM</td>
<td>Jan. 16</td>
<td></td>
</tr>
<tr>
<td>KMVR 104.9 FM</td>
<td>Jan. 16</td>
<td></td>
</tr>
<tr>
<td>KGRT 103.9 FM</td>
<td>Jan. 17</td>
<td></td>
</tr>
<tr>
<td>KSNM 98.7 FM</td>
<td>Jan. 17</td>
<td></td>
</tr>
<tr>
<td>KWML 104.5 FM</td>
<td>Jan. 17</td>
<td></td>
</tr>
<tr>
<td>KHQT 103.1 FM</td>
<td>Jan. 17</td>
<td></td>
</tr>
</tbody>
</table>

The text of the broadcast announcement concerned a public hearing on whether to adopt an ordinance authorizing a property tax rebate to benefit low-income property taxpayers for Doña Ana County for taxable years 2018-2019. The announcement is as follows:

The Board of County Commissioners will conduct a public hearing during its regular meeting beginning at 9:00 a.m. on January 22, 2019, to consider whether to approve an ordinance authorizing a property tax rebate to benefit low-income property taxpayers in Doña Ana County.

A copy of the proposed ordinance is available for inspection at the Office of the County Clerk, Doña Ana County Government Center, 845 N. Motel Blvd., Las Cruces, New Mexico, during regular business hours.

By: Jess Williams
Public Information Officer
Doña Ana County

SUBSCRIBED AND SWORN TO before me this 18th day of January, 2019 by Jess C. Williams, Director of Public Information and Special Projects for Doña Ana County.
DOÑA ANA COUNTY ORDINANCE ____-2019

AN ORDINANCE AUTHORIZING A PROPERTY TAX REBATE TO BENEFIT LOW-INCOME PROPERTY TAXPAYERS FOR TAXABLE YEARS 2017—2018

WHEREAS, as required by NMSA 1978, § 7-2-14.3 (G.), Doña Ana County Board of County Commissioners held a public hearing at a properly noticed meeting to consider the question of whether a property tax rebate as provided for by state law should be made available to low-income, property taxpayers of Doña Ana County.

DOÑA ANA COUNTY HEREBY ORDAINS:

Section 1.

A. The tax rebate provided by this ordinance may be claimed for the taxable year for which the return is filed by an individual who:
   (1) has the individual’s principal place of residence in Doña Ana County;
   (2) is not a dependent of another individual;
   (3) files a return; and
   (4) incurred a property tax liability on the individual’s principal place of residence in the taxable year.

B. The tax rebate provided by this ordinance shall be allowed for any individual eligible to claim the refund pursuant to Subsection A and who:
   (1) was not an inmate of a public institution for more than six months during the taxable year for which the rebate is claimed;
   (2) was physically present in New Mexico for at least six months during the taxable year for which the rebate is claimed; and
   (3) is eligible for the rebate as a low-income property taxpayer in accordance with the provisions of Subsection D.

C. A husband and wife who file separate returns for the taxable year in which they could have filed a joint return may each claim only one-half of the tax rebate that would have been allowed on the joint return.

D. As used in the table in this ordinance, “property tax liability” means the amount of property tax resulting from the imposition of the county property tax operating impositions on the net taxable value of the taxpayer’s principal place of residence.
calculated for the year for which the rebate is claimed. The tax rebate provided in this ordinance is as specified in the following table:

LOW-INCOME TAXPAYER'S PROPERTY TAX REBATE TABLE

<table>
<thead>
<tr>
<th>Taxpayer's Modified Gross Income</th>
<th>Property Tax Rebate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Over $ 0 But Not Over $ 8,000</td>
<td>75% of property tax liability</td>
</tr>
<tr>
<td>$ 8,000 but Not Over $ 10,000</td>
<td>70% of property tax liability</td>
</tr>
<tr>
<td>$ 10,000 but Not Over $ 12,000</td>
<td>65% of property tax liability</td>
</tr>
<tr>
<td>$ 12,000 but Not Over $ 14,000</td>
<td>60% of property tax liability</td>
</tr>
<tr>
<td>$ 14,000 but Not Over $ 16,000</td>
<td>55% of property tax liability</td>
</tr>
<tr>
<td>$ 16,000 but Not Over $ 18,000</td>
<td>50% of property tax liability</td>
</tr>
<tr>
<td>$ 18,000 but Not Over $ 20,000</td>
<td>45% of property tax liability</td>
</tr>
<tr>
<td>$ 20,000 but Not Over $ 22,000</td>
<td>40% of property tax liability</td>
</tr>
<tr>
<td>$ 22,000 but Not Over $ 24,000</td>
<td>35% of property tax liability</td>
</tr>
</tbody>
</table>

E. If a taxpayer’s modified gross income is zero, the taxpayer may claim a tax rebate in the amount shown in the first row of the table. The tax rebate provided for in this ordinance shall not exceed three hundred fifty dollars ($350) per return, and, if a return is filed separately that could have been filed jointly, the tax rebate shall not exceed one hundred seventy-five dollars ($175). No tax rebate shall be allowed to any taxpayer whose modified gross income exceeds twenty-four thousand dollars ($24,000).

F. The tax rebate provided for in this ordinance may be deducted from the taxpayer’s New Mexico income tax liability for the taxable year, as provided in NMSA 1978, §7-2-14.3 (F).

G. This ordinance applies to taxable years 2018 and 2019.

H. The County Assessor is hereby directed to notify the New Mexico Taxation & Revenue Department (the “Department”) that this ordinance has been adopted and furnish a copy of the ordinance to the Department no later than September 1, 2019.

I. The County shall promptly pay the amount of the loss of income tax revenue to the state for the previous taxable year attributable to the allowance of property tax rebates to
taxpayers of Doña Ana County to the Department as provided in § 7-2-14.3 (1.) following receipt of a certified statement from the Department.

J. As used in this ordinance, “principal place of residence” means the dwelling owned and occupied by the taxpayer and so much of the land surrounding it, not to exceed five acres, as is reasonably necessary for use of the dwelling as a home and may consist of a part of a multidwelling or a multipurpose building and a part of the land upon which it is built.

Section 2. Severability. Should any section, paragraph, clause, or provision of this ordinance, for any reason, be held to be invalid or unenforceable, such section, paragraph, clause, or provision shall be deemed deleted, and the remaining provisions of this ordinance shall remain valid and enforceable and shall not be affected by the invalidity or unenforceability of such section, paragraph, clause, or provision.

Section 3. Effective Date. This ordinance shall become effective thirty (30) days after being adopted by a majority of the Board.

ADOPTED this 22nd day of January, 2019.

BOARD OF COUNTY COMMISSIONERS OF DOÑA ANA COUNTY, NEW MEXICO

Dr. Karen M. Trujillo, District 5, Chairwoman For/Against

Isabella A. Solis, District 4, Vice Chairwoman For/Against

Lynn J. Ellins, District 1 For/Against

Ramon S. Gonzalez, District 2 For/Against

Shannon Reynolds, District 3 For/Against

ATTEST:

Amanda López Askin, Ph.D.
County Clerk
### Low Income Taxpayer's Property Tax Rebate Table

**Taxpayer's Modified Gross Income Property Tax Rebate**

*Doña Ana County*

<table>
<thead>
<tr>
<th>Taxpayer's Modified Gross Income Over But Not Over</th>
<th>Property Tax Rebate</th>
<th># of Tax Returns 2016 Tax Year</th>
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<tr>
<td>$0</td>
<td>$8,000</td>
<td>75% of property tax liability</td>
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<td>70% of property tax liability</td>
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<td>35% of property tax liability</td>
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Projection Based on 25% Eligible Taxpayers and $250 Average Tax Rebate per Person

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<tr>
<th>Total # of Tax Returns</th>
<th>Estimated percentage of property owners</th>
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<tr>
<td>42,355</td>
<td>25%</td>
<td>10,589</td>
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Estimated # of eligible taxpayers: 10,589

Total Estimated Property Tax Rebate: $2,647,188

Projection Based on 50% Eligible Taxpayers and $250 Average Tax Rebate per Person

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<thead>
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<td>42,355</td>
<td>50%</td>
<td>21,178</td>
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Estimated # of eligible taxpayers: 21,178

Total Estimated Property Tax Rebate: $5,294,375

Projection Based on 75% Eligible Taxpayers and $250 Average Tax Rebate per Person

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<tr>
<td>42,355</td>
<td>75%</td>
<td>31,766</td>
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Estimated # of eligible taxpayers: 31,766

Total Estimated Property Tax Rebate: $7,941,563

*Note:* Provided by the New Mexico Taxation and Revenue Department
TITLE OF AGENDA ITEM TO BE CONSIDERED

APPROVE PRELIMINARY PLAT FOR ORCHARD ESTATES PHASES III, IV, AND V

SUMMARY OF ITEM TO BE CONSIDERED
INCLUDING PRESENTATION OF OPTIONS FOR ACTION and ACTION REQUESTED

On August 23, 2018, the Planning and Zoning Commission (P&Z) voted 6-0-0 recommending Conditional Approval for the Preliminary Plat for Case # SD18-001, Orchard Estates Phases III, IV and V that consist of 15 residential lots on 32.75 acres ranging in size from 0.77 acres to 7.81 acres. The Conditional Approval requires (1) an opinion from the Office of State Engineer (OSE) stating that the applicant can fulfill the requirements of NMSA 1978, § 47-6-11F(1), requiring that the subdivider provide documents demonstrating the water is sufficient in quantity to fulfill the maximum annual requirements of the subdivision is available. (2) The developer will provide community water to Phase III and IV with the option for well or community water for Phase V. The applicant has met the conditions set by the P&Z. The General Notice Requirements for Public Hearings on Preliminary Plats have been met. The Data Requirements were reviewed by the appropriate agencies. Article VI, Development Construction Standards will be satisfied and all infrastructure improvements such as drainage, ponding and roadways will be inspected to insure County standards are met prior to Final Plat submittal. The proposed internal roads will be maintained and remain under private ownership. Staff recommends approval of Case # SD18-001 as the P&Z conditions have been met.

DESCRIPTION OF SUPPORTING DOCUMENTATION ATTACHED


SUMMARY OF FINANCIAL IMPACT

None, no dedication of infrastructure is being proposed to DAC.

ADMINISTRATIVE REVIEW AND APPROVAL

Finance  Legal  County Manager/Agenda Review
Purchasing  Human Resources  Assistant County Manager
Planning  Other

DOCUMENT CONTROL

Original/s for signature? __ Yes ___ No  For Recording? __ Yes ___ No
Return original/s to: _____________________ Name ___________ Dept.
Send copy of recorded original/s (resolution and ordinances only) to: _____________________ Name ___________ Dept.
Deadline for return of document/s? Yes, return by: ___________ or __ No
CASE SUMMARY
ORCHARD ESTATES PHASES III, IV, AND V

On February 28, 2012 the Board of County Commissioners (BOCC) approved the Preliminary Plat for Orchard Estates Subdivision on a 40 acre parcel to be developed in five (5) phases. Subsequently, on June 11, 2013 the BOCC approved the Final Plat for Phases I and II which created 8 lots on approximately 7.25 acres of the 40 acre subdivision. On August 23, 2018 the Planning and Zoning Commission (P&Z) voted 6-0-0 recommending Conditional Approval for the Preliminary Plat for Orchard Estates Phase III, IV and V that consist of 15 residential lots on 32.75 acres ranging in size from 0.77 acres to 7.81 acres, and will contain an agriculture preservation and ponding easement. The Conditional Approval requires (1) an opinion from the Office of State Engineer (OSE) stating that the applicant can fulfill the requirements of NMSA 1978, § 47-6-11F (1), requiring that the subdivider provide documents demonstrating the water is sufficient in quantity to fulfill the maximum annual requirements of the subdivision is available. (2) The developer will provide community water to Phase III and IV with the option for well or community water for Phase V. The applicant has met the conditions set by the P&Z. The applicant has provided a letter from the Lower Rio Grande Public Works Authority demonstrating a ready willing and able letter for water service and the OSE issued a positive opinion that the developer has demonstrated the water is sufficient in quantity to fulfill the maximum annual requirements of the subdivision.

The General Notice Requirements for Public Hearings on Preliminary Plats have been met. The Data Requirements were reviewed by the appropriate agencies, Article VI, Development Construction Standards will be satisfied and all infrastructure improvements such as drainage, ponding and roadways will be inspected to insure County standards are met prior to Final Plat submittal. The proposed internal roads will be maintained and remain under private ownership. The Preliminary Plat Application is consistent with the UDC standards of Chapter 350 of the Unified Development Code, Article IV Subdivisions. Staff recommends approval of Case # SD18-001 Orchard Estates Phase III, IV and V.

NOTICE / NOTIFICATION

- Thirty four (34) letters of notification were mailed to the property owners within the area of notice.
- Legal Ads were placed in the Las Cruces Sun-News.
- Signs were placed on the property.
- Agenda was posted on the County Web site.

APPLICABLE PLANS, POLICIES, AND CRITERIA FOR APPROVAL

Chapter 350 Unified Development Code Article IV Subdivisions
§ 350-104. D.2 Duties of the BOCC
§ 350-212 Subdivision Procedures:
§ 350-212.A General Rule
§ 350-212.B Pre-application Conference
§ 350-212.C Pre-engineering Conference
§ 350-212.D Agency Review
§ 350-212.E General Notice Requirements
STAFF RECOMMENDATION

Based on the applicant meeting the conditions set by the P&Z and the following findings of fact, staff recommends Approval of Case # SD18-001, Orchard Estates Phase III, IV and V.

FINDINGS:
Pursuant to UDC §350-104. D. (2), the BOCC shall make a final decision on the Preliminary Plat application. This decision should consider the following:

1. Pursuant to UDC §350-401, on August 23, 2018, the Planning and Zoning Commission recommended Conditional Approval for Case # SD18-001 Orchard Estates Phases III, IV and IV. The applicant has met the conditions set by the P&Z. The Lower Rio Grande Public Works Authority has provided a ready, willing and able letter to provide water service and the OSE issued a positive opinion that the developer has demonstrated the water is sufficient in quantity to fulfill the maximum annual requirements of the subdivision.

2. Pursuant to 350-407: Approval of the Preliminary Plat for Orchard Estates Phases III, IV ensures the following:
   a. Water quantity is sufficient to fulfill the maximum annual water requirements of the subdivision, including water for indoor and outdoor domestic uses, per the Office of the State Engineer.
   b. Water is of an acceptable quality for human consumption and measures are taken to protect the water supply from contamination, per NMED requirements.
   c. There is a means of liquid waste disposal for the subdivision, per NMED requirements.
   d. There is a means of solid waste disposal for the subdivision, per NMED requirements.
   e. There are satisfactory roads to each parcel, including entry and exit for emergency vehicles, and there are appropriate utility easements to each parcel, per DAC Fire Marshal’s Office and DAC Engineering.
   f. Terrain management protects against flooding, inadequate drainage, erosion and meets the requirements of the Article 6 Development Construction Standards, per DAC Flood Commission and the Doña Ana Soil and Water Conservation District.
   g. There are protections for cultural properties, archaeological sites and unmarked burials that may be directly affected by the subdivision, as required by the Cultural Properties Act, per New Mexico SHPO.
   h. The subdivider can fulfill the proposals contained in the disclosure statement for the subdivision.
   i. The subdivision will conform to the New Mexico Subdivision Act and the UDC.
3. The Preliminary Plat Application is consistent with the UDC:
Chapter 350 Unified Development Code Article IV Subdivisions

§ 350-104.C.9 Duties of the Planning and Zoning Commission
§ 350-212 Subdivision Procedures:
§ 350-212.A General Rule
§ 350-212.B Preapplication Conference
§ 350-212.C Pre-engineering Conference
§ 350-212.D Agency Review
§ 350-212.E General Notice Requirements
§ 350-212.G Preliminary Plat Review
§ 350-212.I(1) Final Plat Review and BOCC Action
Article IV Subdivisions
§ 350-401 P&Z Review
§ 350-402 Development Review Committee
§ 350-407 Subdivision Data Requirements
MEETING DATE: August 23, 2018

REQUEST: Preliminary Plat Approval for Phases III, IV, V of the 5 Phase Orchard Estates Subdivision.

CASE No.: SD18-001

PURPOSE: Infrastructure improvements For 15 residential lots

PROPERTY OWNER: Eugene Burkeholder/
AGENT: Paul Pompeo

LOCATION: East of the intersection of Aldaz Rd. and Bosque Rd. in the south valley

PROPERTY SIZE: 32.75 acres

PARCEL ID NO: R1719495

RECOMMENDATION: Conditional Approval

CASE MANAGER: Luis Marmolejo
Senior Planner

SUMMARY
Pursuant to § 350-104.C.9: “[t]he Planning and Zoning Commission is authorized to... review and make recommendations for approval, approval with conditions or denial of preliminary plats to the Board of County Commissioners.” This matter is an application for the approval of 15 residential lots on 32.75 acres ranging in size from 0.77 acres to 7.81 acres, which will contain an agriculture preservation and ponding easement. Staff is recommending that the developer provide community water rather than individual domestic wells.

REPORT CONTENTS: 1. Case Analysis. 2. Preliminary Plat & Disclosure Statement. 3. DRC minutes
SURROUNDING ZONING/LAND USE

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<th>LAND USE</th>
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<td>Residential, Agriculture</td>
</tr>
<tr>
<td>South</td>
<td>T2/T3</td>
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</tr>
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<td>East</td>
<td>T2</td>
<td>Agriculture</td>
</tr>
<tr>
<td>West</td>
<td>T2/T3</td>
<td>Residential, site-built homes</td>
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BACKGROUND

On February 28, 2012 the Board of County Commissioners (BOCC) approved the Preliminary Plat for Orchard Estates Subdivision on a 40 acre parcel to be developed in five phases. Subsequently, on June 11, 2013 the BOCC approved the final plat for phases I and II. The applicant is proposing the development of Phases III, IV and V for 15 lots ranging in size from 0.77 acres to 7.081 acres, which will contain an agriculture preservation and ponding easement for the existing pecan orchard. Phase III consists of 4 lots ranging in size from 0.85 acres to 0.99 acres, Phase IV consists of 4 lots ranging in size from 0.77 acres to 2.11 acres, Phase V consists of 7 lots ranging in size from 2.52 acres to 7.81 acres. All phases will provide internal access to the abutting lots by means of two 50’ cul-de-sac roads. Burkett Place will extend from Phase II on to Phase IV. Wichita Place will provide access to Phases III and IV. Maintenance of the internal road ways are the responsibility of the subdivision owner until all lots are sold then the maintenance is the responsibility of the lot owners by means of a road maintenance agreement that is part of the Disclosure Statement. The developer is proposing that each lot will be serviced by a septic or advanced treatment tank, domestic drinking water is the responsibility of the perspective buyers to install an individual well and LP gas. The property is identified as being located south of Berino, within Section 16, Township 26 South, Range 3 East, Property ID No. R1719495 as recorded in the Office of the Doña Ana County Clerk under Instrument No. 0913374 filed on May 15, 2009.

The General Notice Requirements for Public Hearings on Preliminary Plats have been met. The Data Requirements were reviewed by the appropriate agencies, remaining comments entail subdivision design drawings from the reviewing agencies that will be satisfied prior to Final Plat submittal. All infrastructure improvements such as drainage, ponding and roadways will be inspected to insure County standards are met. The Preliminary Plat Application is consistent with the UDC standards of Chapter 350 of the Unified Development Code.

NOTICE / NOTIFICATION

- Thirty four (34) letters of notification were mailed to the property owners within the area of notice on July 30, 2018.
- Legal Ads were placed in the Las Cruces Sun-News on July 29, 2018.
• Signs were placed on the property in a timely manner.
• Agenda was posted on the County Web site.

PUBLIC COMMENTS
No public input has been received.

APPLICABLE PLANS, POLICIES, AND CRITERIA FOR APPROVAL

Chapter 350 Unified Development Code Article IV Subdivisions
§ 350-104.C.9 Duties of the Planning and Zoning Commission
§ 350-212 Subdivision Procedures:
§ 350-212.A General Rule
§ 350-212.B Preapplication Conference
§ 350-212.C Pre-engineering Conference
§ 350-212.D Agency Review
§ 350-212.E General Notice Requirements
§ 350-212.G Preliminary Plat Review
§ 350-212.I(1) Final Plat Review and BOCC Action
Article IV Subdivisions
§ 350-401 P&Z Review
§ 350-402 Development Review Committee
§ 350-407 Subdivision Data Requirements

AGENCY COMMENTS:

Community Development Department: Staff is recommending conditional approval of the Preliminary Plat pursuant to §350-212.1 Final Plat Review and BOCC Action as community water is readily available: “Before approving the final plat for a subdivision containing 10 or more parcels, any one of which is two acres or less in size, the BOCC shall require that the applicant provide proof of a service commitment from a water provider and an opinion from the state engineer that the applicant can fulfill the requirements of Paragraph (1) of Subsection F of NMSA 1978, § 47-6-11.

Development Review Committee: On August 2, 2018 the DRC recommended approval for Orchard Estates for Phases III, IV, and V.

County Fire Administration: Approved, any future structures will be required to meet fire code.

County Engineering Department: 1) Provide a street signage plan prior to construction plan submittal.
2) Coordinate with the Lower Rio Grande Public Water Works Authority (LRGPWWA) for water system availability prior to next stage.

County Flood Commission: Approval

Office of State Engineer: A positive opinion is issued. It is recommended that item 17 of the Disclosure statement read “Outdoor irrigation should be limited to 800 sq. ft. per lot”.
NMED, Santa Fe:
• NMED Air Quality Bureau Comments: The project, as proposed, is not anticipated to result in nonattainment of the New Mexico or National Ambient Air Quality Standards or contribute negatively to air quality on a long-term basis.
• NMED Drinking Water Bureau Comments: The New Mexico Environmental Department (NMED) Drinking Water Bureau (DWB) opinion that the developer can supply water of an acceptable quality for human consumption and for protecting the water supply from contamination is unfavorable.
• NMED Ground Water Quality Bureau Comments: While implementation of this project is not expected to have any adverse effects on groundwater quality, domestic wastewater generated from these properties must be handled in a manner that is protective of groundwater quality. However, if domestic wastewater is to be discharged to an on-site wastewater disposal system, then the onsite system must operate under the appropriate permit from the NMED (either a liquid waste permit issued pursuant to 20.7.3 NMAC or a ground water discharge permit issued pursuant to 20.6.2 NMAC) depending upon the daily discharge volume.

NMDOT, Santa Fe: Traffic Engineer District One: This development has no impact to the State Highway System.

SHPO, Santa Fe: SHPO reports no concerns.

Doña Ana S&WCD: Dona Ana SWCD offers approval of the plan submitted.

EBID: Provided a copy of Policy #89-ENG8: “Granting Approval for Subdivision Developments, and to the Way they can Affect the Planner, Developer, Contractor and the Individual in Utilizing Lands that are Entitled to use Water for Irrigation.”

DAC Addressing: No comment.

STAFF ANALYSIS

On February 28, 2012 the Board of County Commissioners (BOCC) approved the Preliminary Plat for Orchard Estates Subdivision on a 40 acre parcel to be developed in five phases. Subsequently, on June 11, 2013 the BOCC approved the final plat for phases I and II which created 8 lots on approximately 7.25 acres of the 40 acre subdivision. The applicant is proposing the development of the remaining Phases: III, IV and V to create 15 lots ranging in size from 0.77 acres to 7.081 acres on the remainder 32.75 acres. The developer is proposing individual domestic wells to these lots, but staff has determined that a community water system is in close proximity to these Phases and are recommending that the Lower Rio Grande Public Water works Authority provide water to these phases of the subdivision. Additionally, if community water is provided, this may eliminate the requirement of providing a sprinkler system in each home per the County Fire Chief. Pursuant to §350-212.1 (1) of the Code: “Before approving the final plat for a subdivision containing 10 or more parcels, any one of which is two acres or less in size, the BOCC shall require that the applicant provide proof of a service commitment from a water provider and an opinion from the state engineer that the applicant can fulfill the requirements of Paragraph (1) of Subsection F of NMSA 1978, § 47-6-11. Staff is recommending that §350-212.1 (1) be a condition of approval of the preliminary plat. Staff has communicated with the Office of the State Engineer.

Meeting this condition would entail the applicant to revise the Plat, Disclosure Statement and provide proof of a service commitment from the Lower Rio Grande Public Water Works Authority that would
have to be reviewed and approved by the Office of State Engineer and NMED. Staff has contacted both agencies for an initial assessment of the changes. Staff is of the opinion that this condition can be satisfied prior to submittal to the BOCC for Preliminary Plat approval.

The General Notice Requirements for Public Hearings on Preliminary Plats have been met. The Data Requirements were reviewed by the appropriate agencies, any remaining outstanding comments from the reviewing agencies will be addressed prior to the submittal of the Preliminary Plat to the BOCC. The design and construction of all infrastructure improvements such as drainage, ponding and roadways will be approved and inspected by County Engineering to insure all County standards are met.

STAFF RECOMMENDATION
Staff recommends the applicant make the appropriate changes to the Preliminary Plat and Disclosure Statement for the Orchard Estates Phases III, IV and V in order to comply with the UDC and §350-212 I (1) of the Code as a Condition for approval of Case # SD18-005 prior to going before the BOCC for Preliminary Plat approval.

FINDINGS:
Pursuant to UDC §350-104.C.9, the Planning and Zoning Commission being duly authorized to make recommendations for approval, approval with conditions or denial of preliminary plats and replats to the Board of County Commissioners based on the following findings:

1. Pursuant to UDC §350-104.C.9 "[t]he Planning and Zoning Commission is authorized to... review and make recommendations for approval, approval with conditions or denial of preliminary plats to the Board of County Commissioners." The property is located outside of any incorporated municipal zoning authority and is within Doña Ana County.

2. On February 28, 2012 the Board of County Commissioners (BOCC) approved the Preliminary Plat for Orchard Estates Subdivision on a 40 acre parcel to be developed in five phases.

3. On June 11, 2013 the BOCC approved the final plat for phases I and II that created 8 lots on approximately 7.25 acres of the 40 acre subdivision.

4. Pursuant to 350-407. D.: Approval of the Preliminary Plat for Orchard Estates Phase III, IV and V will ensure the following once changes are made to the Water Supply Plan and approved by the reviewing agencies:
   a. Water quantity is sufficient to fulfill the maximum annual water requirements of the subdivision, including water for indoor and outdoor domestic uses, per the Office of the State Engineer.
   b. Water is of an acceptable quality for human consumption and measures are taken to protect the water supply from contamination, per NMED requirements.
   c. There is a means of liquid waste disposal for the subdivision, per NMED requirements.
   d. There is a means of solid waste disposal for the subdivision, per NMED requirements.
   e. There are satisfactory roads to each parcel, including entry and exit for emergency vehicles, and there are appropriate utility easements to each parcel, per DAC Fire Marshal’s Office and DAC Engineering.
   f. Terrain management protects against flooding, inadequate drainage, erosion and meets the requirements of the Article 6 Development Construction Standards, per DAC Flood Commission and the Doña Ana Soil and Water Conservation District.
   g. There are protections for cultural properties, archaeological sites and unmarked burials that may be directly affected by the subdivision, as required by the Cultural Properties Act, per New Mexico SHPO.
SURROUNDING LAND USES

Subject Parcel Close Up with 2014 Aerial Photo
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MINUTES OF THE DOÑA ANA COUNTY
PLANNING AND ZONING COMMISSION

August 23, 2018

CALL TO ORDER
09:01:37
Chair Acosta called the Regular Meeting of the Planning and Zoning Commission to order at 9:01 a.m.,
Thursday, August 23, 2018 in the County Commissioners Chambers, Doña Ana County Government
Center, 845 N. Motel Blvd., Las Cruces, New Mexico.

1. ROLL CALL
09:01:59
Mel Acosta – Chair – Present
Robert Czerniak – Vice Chair – Present
Tom Phillips – Secretary – Present
Ken Thurston – Commissioner – Present
Bruce Jackson – Commissioner – Present
Bill Shattuck – Commissioner – Absent
John Townsend – Commissioner – Present

2. APPROVAL OR CHANGES TO THE AGENDA
Time: 09:02:25

Time: 09:02:34
Robert Czerniak: I move to approve the agenda as presented.

Motion: Robert Czerniak
Second: Tom Phillips

The motion passed by a vote of “ayes” from all Commissioners present.

3. APPROVAL OF MINUTES:
09:02:51

Tom Phillips: I have a correction I would like to propose, under new business, the statement that is
referenced to me is just kind of hanging there and doesn’t really do it justice by leaving it in. Rather
than adding in a whole bunch of detail, I suggest striking it with the recognition that the intent of that
comment is covered in the minutes in the video, which is the official record.

Time: 09:03:37
Tom Phillips: I move to approve the minutes with that change.

Motion: Tom Phillips
Second: John Townsend

Mel Acosta: We have a motion to strike or delete item five.

Tom Phillips: To clarify, it would be the one sentence under item five that says Tom Phillips. I put it
on the record through my comment; it does not do it any justice by itself.
Robert Czerniak: We had a discussion about this case in relation to the fact that it should have been a County initiated zone change. The fees that were charged to the property owner should not have been charged.

Mel Acosta: That was on the fees that were involved right.

Robert Czerniak: Yes, because one of the justifications for the approval was that it was a mistake by the County. The zoning was incorrectly labeled on the County Map, which is not reflected on the notes. I do not know if that should be or not but in addition to that we had asked the staff develop a policy on how to handle cases like this and for consideration in the UDC and that’s not in the minutes either, I would like to see that corrected.

Mel Acosta: Janine what is your take on that, please?

Luis Marmolejo: We will go ahead and go back to the audio and insert those points if you will.

Robert Czerniak: Before we approve these, I would like to defer so we can see those the minutes rewritten and with Commissioner’s comments in addition.

Mel Acosta: Would you rather postpone the approval of the minutes?

Robert Czerniak: If that is okay with the Commission?

Tom Phillips: How about I withdraw my motion?

Mel Acosta: Motion has been withdrawn. Let us go ahead, postpone the minutes until next meeting, and get that corrected.

Robert Czerniak: How long does it normally take to get the video up on the website? This meeting was not on the website as of two days ago.

Luis Marmolejo: We can ask staff in the booth, after that question after the meeting.

Robert Czerniak: I actually got a couple phone calls.

4. Old Business:

09:07:01
None.

New Business:

09:07:09

a. **Case # Z18-005:** A County initiated zone change for a proposed Type III Subdivision to be known as Orchard Estates Phases III and IV from T2, Rural to T3, Neighborhood Edge to comply with the previously approved Orchard Estates Subdivision plat. The lots range in size from 0.77 acres to 2.11 acres. The property is located east of the intersection of Aldaz and Bosque Roads and is identified as being within Section 16, Township 26 South, Range 3 East, and Property Identification No. R1719495 as recorded in the Office of the Doña Ana County Clerk under Instrument No. 0913374 filed on May 15, 2009.

Luis Marmolejo presented the case and public input was heard from the applicant, Paul Pompeo, and Matt Grubaugh.

Time: 09:22:42
John Townsend: Based on the finding of the facts and recommendations of the staff to correct the error, I move the approval of Case # Z18-005.

Janine Divyak: In the motion, we should identify phases three and four would be affected by the zone change for the proposed Orchard Estates Subdivision.

Motion: John Townsend
Second: Robert Czerniak

<table>
<thead>
<tr>
<th>Commissioner</th>
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<tr>
<td>John Townsend</td>
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<tr>
<td>Vice Chair Robert Czerniak</td>
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<td></td>
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<tr>
<td>Mel Acosta</td>
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</table>

The motion passed by a vote of “ayes” from all Commissioners present.

Time: 09:24:32

b. Case # SD18-001: A Type III Subdivision to be known as Orchard Estates Phase III, IV and V submitted by Paul J. Pompeo, agent for Eugene Burkholder dba Preferred Insurance Services, Inc., owner. The applicant is proposing 15 lots on 32.75 acres, ranging in size from 0.83 acres to 7.081 acres. The property is located east of the intersection of Aldaz and Bosque Roads and is identified as being within Section 16, Township 26 South, Range 3 East, Property Identification No. R1719495 as recorded in the Office of the Doña Ana County Clerk under Instrument No. 0913374 filed on May 15, 2009.

Luis Marmolejo presented the case and public input was heard from the applicant Paul Pompeo, Eugene Burkholder, Chris Homero, and Matt Grubaugh.

Time: 09:56:25

Robert Czerniak: I move to approve Case #SD18-001 Orchard Estates Phase III, IV and V the preliminary plat, based on findings of fact and recommendations of staff with the condition that Sections 350-212.i.1 be satisfied and all other conditions be satisfied prior to BOCC approval. I want to add water provided to the subdivision in phases III and IV will be community water and to phase V it would be either community water or wells.

Motion: Robert Czerniak
Second: John Townsend

<table>
<thead>
<tr>
<th>Commissioner</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>John Townsend</td>
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<tr>
<td>Bruce Jackson</td>
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<tr>
<td>Tom Phillips</td>
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<tr>
<td>Vice Chair Robert Czerniak</td>
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<td></td>
</tr>
<tr>
<td>Mel Acosta</td>
<td>x</td>
<td></td>
</tr>
</tbody>
</table>

The motion passed by a vote of “ayes” from all Commissioners present.
6. **Committee Reports**  
09:58:04  
None.

7. **Administrative Approvals**  
09:58:14  
None.

8. **Staff Input**  
09:58:24  
None.

9. **Commission Input**  
09:58:34  

Mel Acosta: We are going to have to do some work on the UDC regarding containers and container homes. I requested Dennis Smith help us out regarding the stacking of water rights and what is the legal process regarding the adjudication of water rights that have been transferred. Water rights that have been transferred between large parcels and smaller parcels of property that is a concern if the State Engineer allows that. The reason for that is that in the event that water is transferred, what happens to those parcels of property? Do they become fallow? We need some answers to what is going on so we can plan for probably cluster development as we go through our next six, seven, eight months prior to litigation with the state of Texas and the state of Chihuahua.

Janine Divyak: Dennis Smith sent me an email as he spoke with Andrea Mendoza at the State Engineer’s Office as legal notices are required by state statute for new wells, changes of ownership on water rights and change to the point of diversion on wells and other changes to water rights. She said that is probably why you are seeing more ads in the newspaper. Since 2011, surface and ground water rights cannot be separated, in the sense that if a farmer chooses not to pay his or her EBID bill, the State Engineer can stop use of that farmer’s ground water. She also stated that residential wells are permitted by statutes and granted a one-acre foot water right, which is independent of any agricultural water rights. She further stated that there is a water study currently going on in the Lower Rio Grande Region and gave us a link to that website.

Mel Acosta: The reason why I asked that is because I just foresee that in the near future, I think the City and the County are going to have to do some real serious planning regarding how we are going to have to grow the, how are we going to get it accomplished. It would take the participation of farmers and the residents of Doña Ana County. That is my concern, how is it that we are going to develop in a good positive way where we all have abundance of water and conservation of water and that to me is the real key issue for development and growth of the county. Tell Dennis thank you very much.

10. **ADJOURNMENT**  
10:02:12

Officer: Planning and Zoning Commission

The minutes contained herein are not verbatim. They summarize the actions and decisions of the Planning and Zoning Commission. For full verbatim minutes, please reference the recording on the County website located at: https://donaanacounty.org/pz/video.
ORCHARD ESTATES PHASE III TO V
BERINO, NEW MEXICO

DISCLOSURE STATEMENT

PREPARED FOR

Mr. Eugene Burkeholder
900 West Joy Drive
Anthony, NM 88021

April 10, 2018
This Disclosure Statement, prepared for the ORCHARD ESTATES PHASE III TO V, is true and correct to the best of our knowledge and belief, meeting the requirements of the Doña Ana County Subdivision Regulations.

We, the undersigned owners, hereby set our hands and seals this 12th day of April, 2018.

Eugene Burkeholder

State of New Mexico
County of Doña Ana

The foregoing instrument was acknowledged before me this 12th day of April, 2018, by

Griselda V. Escalante
Notary Public

My Commission Expires: May 7, 2019

Page 146 of 299
This disclosure statement is intended to provide you with enough information to permit you to make an informed decision on the purchase or lease of all property described in this statement. You should read carefully all of the information contained in this statement before you buy or lease the described property.

The Doña Ana County Commission or their representatives have examined this disclosure statement to determine whether the subdivider can satisfy what he has said in this disclosure statement. However, the county commissioners or their representatives do not vouch for the accuracy of what is said in this disclosure statement. Furthermore, this disclosure statement is not a recommendation or endorsement of the subdivision by either the commission or the state; it is informative only.

I Received a Copy of this Disclosure Statement

Name __________________________
Date __________________________

I Have Seen the Property

Name __________________________
Date __________________________
YOU SHOULD READ THIS DISCLOSURE STATEMENT BEFORE YOU SIGN ANY DOCUMENTS OR AGREE TO ANYTHING.

This disclosure statement is intended to provide you with enough information to make an informed decision on the purchase, lease or acquisition of the property described in this statement. You should read carefully all of the information contained in this disclosure statement before you decide to buy, lease or otherwise acquire the described property.

Various public agencies may have issued opinions on both the subdivision proposal and the information contained in this disclosure statement. Summaries of these opinions are contained in this disclosure statement. They may be favorable or unfavorable. You should read them closely.

The Board of County Commissioners has examined this disclosure statement to determine whether the subdivider can fulfill what the subdivider has said in this disclosure statement. However, the Board of County Commissioners does not vouch for the accuracy of what is said in this disclosure statement. In addition, this disclosure statement is not a recommendation or endorsement of the subdivision by either the County or the State. It is informative only.

The Board of County Commissioners recommends that you inspect the property before buying, leasing or otherwise acquiring it.

If you have not inspected the parcel before purchasing, leasing or otherwise acquiring it, you have six (6) months from the time of purchase, lease or other acquisition to personally inspect the property. After inspecting the parcel within the six (6) month period, you have three (3) days to rescind the transaction and receive all your money back from the subdivider when merchantable title is revested in the subdivider. To rescind the transaction you must give the subdivider written notice of your intent to rescind within three (3) days after the date of your inspection of the property.

County regulations require that any deed, real estate contract, lease or other instrument conveying an interest in a parcel in the subdivision be recorded with the County Clerk.

Building permits, wastewater permits or other use permits must be issued by state or county officials before improvements are constructed. You should investigate the availability of such permits before you purchase, lease, or otherwise acquire an interest in the land. You should also determine whether such permits are requirements for construction of additional improvements before you occupy the property.
DISCLOSURE STATEMENT

1. NAME OF SUBDIVISION
   “ORCHARD ESTATES PHASE III TO V”

2. NAME AND ADDRESS OF SUBDIVIDER
   Mr. Eugene Burkeholder
   900 West Joy Drive
   Anthony, NM 88021

3. NAME AND ADDRESS OF PERSON IN CHARGE OF SALES, LEASING OR OTHER CONVEYANCE IN NEW MEXICO.
   None At This Time

4. SIZE OF SUBDIVISION BOTH PRESENT AND ANTICIPATED
   Present  Anticipated
   1 parcel  15 parcels
   32.78 acres  0.75 – 7.81 acres

5. SIZE OF LARGEST PARCEL OFFERED FOR SALE, LEASE OR CONVEYANCE WITHIN THE SUBDIVISION.
   7.81 Acres

6. SIZE OF SMALLEST PARCEL OFFERED FOR SALE, LEASE OR CONVEYANCE WITHIN THE SUBDIVISION.
   0.75 Acres

7. PROPOSED RANGE OF PRICES FOR SALES, LEASES OR OTHER CONVEYANCES
   $50,000 to $120,000.00 per acre

8. FINANCING TERMS
   Buyer is responsible for making arrangements with institution of their choice

SMA
9. NAME AND ADDRESS OF HOLDER OF LEGAL TITLE*
Mr. Eugene Burkeholder
900 West Joy Drive
Anthony, NM 88021

10. NAME AND ADDRESS OF PERSONS HAVING EQUITABLE TITLE
Mr. Eugene Burkeholder
900 West Joy Drive
Anthony, NM 88021

11. CONDITION OF TITLE
Releases from the Notice of Escrow will be granted to individual lots upon the sales, pursuant to the Notice of Escrow as filed on June 08, 2009, Instrument Number 0915627 of the records of Doña Ana County Clerk’s Office and Mountain States Escrow, Inc., being the escrow agent.

12. STATEMENT OF ALL RESTRICTIONS OR RESERVATIONS OF RECORD THAT SUBJECT THE SUBDIVIDED LAND TO ANY CONDITIONS AFFECTING ITS USE OR OCCUPANCY
See Appendix A at the end of this report for a copy of the restrictive covenants for this subdivision, when written.

13. ESCROW AGENT
None at this time.
14. UTILITIES

Electricity
Natural Gas
Phase 3 and 4 Water
Phase 5 Water
Telephone
Liquid Waste Disposal
Solid Waste Disposal

El Paso Electric Company
New Mexico Gas Company or LP Tanks
Lower Rio Grande Public Water Works Authority
Private On-site Wells or Lower Rio Grande Public Water Works Authority
Centurylink Communications
Individual Septic Tanks
Private Haulers/Transfer Station Option
- Southwest Disposal Corporation
- Mesilla Valley Disposal
- Miles Hauling Service
- Silva Sanitation

Estimated cost to purchasers up to install wire utilities averages $1,000 to $2,500 for electric and telephone service. LP Tanks will be installed by the individual lot owners at the time of lot development at a cost of $1,500. Standard septic tank installation that averages $1,800 to $3,000. If due to areas of high water table, Advanced Treatment or elevated Evaporative Transportation Beds may be required, this could increase the cost of waste water treatment by $5,000 to $10,000. Solid Waste Disposal will cost each lot owner from $30 to $50 per month once service has been established. Costs are accurate as of the date of approval of the subdivision but are subject to change due to market conditions and factors beyond the subdivider’s control.

15. INSTALLATION OF UTILITIES

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<td>Lot Buyer</td>
<td>After date of closing</td>
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<tr>
<td>Phase 3 and 4 Water</td>
<td>Developer</td>
<td>After date of closing</td>
</tr>
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<td>Phase 5 Water</td>
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</tr>
<tr>
<td>Telephone</td>
<td>Lot Buyer</td>
<td>After date of closing</td>
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<tr>
<td>Liquid Waste Disposal</td>
<td>Lot Buyer</td>
<td>After date of closing</td>
</tr>
<tr>
<td>Solid Waste Disposal</td>
<td>Lot Buyer</td>
<td>After date of closing</td>
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</table>
16. **UTILITY LOCATION**
Utilities will be available to all parcels.

<table>
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<tr>
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<tr>
<td>Electricity</td>
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<td>Natural Gas</td>
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<td>Water</td>
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<tr>
<td>Telephone</td>
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<td>Liquid Waste Disposal</td>
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</tr>
<tr>
<td>Solid Waste Disposal</td>
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</tr>
</tbody>
</table>

17. **WATER AVAILABILITY**
Lower Rio Grande Public Water Works Authority will provide water service to Phase 3 and 4 and the developer will provide water service stub-outs and fire hydrants in accordance with the fire code based on location and distribution depending on the water availability. Individual property owner of Phase 3 and 4 are responsible for water service to the residence. For the proposed development of Orchard Estates Phase 5 the water supplier will be from on-site wells on individual lots or Lower Rio Grande Public Water Works Authority only if individual property owners extend the water service to their development. Well records in the New Mexico State Engineer’s office in Las Cruces, New Mexico indicate that numerous private domestic wells are located in the area of this subdivision. The State Engineer will grant a domestic permit under Section 72-12-1, N.M.S.A. 1978 only to the person who, in good faith, intends to use the well for domestic and household purposes and the permit is limited to a diversion of 0.75 acre-feet per annum per lot which may not be used to irrigate more than 1 acre of non-commercial trees, lawn or garden and household or other domestic use. If more than one household per well is proposed, then no more than 1 acre of non-commercial trees, lawn or garden may be irrigated from the well and the total withdrawal from the well shall be metered and limited to 0.75 acre-feet per year per lot for all uses. In the event two or more wells obtained under withdrawals shall be limited to 0.75 acre-feet per annum from any well or group of wells that supply a common system or if the water is to be used for commercial purposes, it will be necessary for the owners to obtain existing water rights and transfer them to the well as provided by Section 72-12-1, N.M.S.A. 1978. The maximum annual water requirement for both indoor and outdoor purposes, for each parcel in a residential subdivision shall be 0.75 acre-feet per year, unless a detailed water demand analysis approved by the State Engineer’s Office justifies the use of a different figure. The total annual water requirement for the subdivision is computed by multiplying the number of parcels by 0.75 acre-feet per lot per year for a total of 5.25 acre-feet. The subdivider, may at his/her option, prepare a detailed water demand analysis using the step by step computational procedure presented in the relevant State Engineer Technical Report.
Water will be for domestic use only. Water will not be provided for recreational use, exclusive of swimming pools and spas. There are no anticipated limitations, physical or legal, for the indicated uses. Water conservation methods include limiting lawns to a maximum area of 3,000 sf per lot with the remainder being xeriscaped. Low flow plumbing fixtures should be utilized. The State Engineer’s Office opinion on the adequacy of the water supply for this subdivision is attached in Appendix B at the end of this report.

18. FOR SUBDIVISIONS WITH COMMUNITY WATER SYSTEMS
   N/A

19. FOR SUBDIVISIONS WITH INDIVIDUAL DOMESTIC WELLS OR SHARED WELLS

NOTE: PROSPECTIVE BUYERS MUST PROVIDE THEIR OWN WELLS.
There are numerous domestic wells in close proximity to the subdivision. Potable ground water exists in sand and gravel layers located from 250 to 400 feet in depth. On-site wells for domestic purposes represent the most economically feasible method of obtaining potable water. The following table shows the minimum recommended construction parameters for a typical domestic well:

<table>
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<tr>
<th>Description</th>
<th>Minimum Recommended Value</th>
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</thead>
<tbody>
<tr>
<td>Well Diameter</td>
<td>10 inch</td>
</tr>
<tr>
<td>Casing Diameter (inside)</td>
<td>6 inch</td>
</tr>
<tr>
<td>Well Pump Size</td>
<td>½ horsepower</td>
</tr>
<tr>
<td>Well Depth (minimum)</td>
<td>200 feet*</td>
</tr>
<tr>
<td>Well Depth (maximum)</td>
<td>380 feet*</td>
</tr>
<tr>
<td>Well Depth (average)</td>
<td>290 feet*</td>
</tr>
<tr>
<td>Estimated Well Yield</td>
<td>25 to 50 gallons per minute*</td>
</tr>
</tbody>
</table>

Water for other than domestic purposes should not be provided through on-site wells. The New Mexico State Engineer’s Office will require that a permit be obtained for a domestic well prior to its construction. Well installation is the responsibility of the individual property owner and should be constructed by a New Mexico contractor licensed as a qualified well driller.
20. **LIFE EXPECTANCY OF WATER SUPPLY**


21. **SURFACE WATER**

EBID surface water will remain available for all lots.

22. **NEW MEXICO STATE ENGINEERS OPINION ON WATER AVAILABILITY**

The State Engineer’s Office opinion on the availability of water for this subdivision is attached in Appendix B at the end of this report.

23. **WATER QUALITY**

Located within the immediate vicinity of the proposed development there are currently active domestic wells. A water quality test was completed on October 2011 from one of the existing wells, Well LGR-44. Results determined that the sample exceeded the maximum allowable levels of arsenic as regulated by NMED Drinking Water Bureau’s Drinking Water Regulations (20.7.10 NMAC). The concentration of arsenic found within the sample was determined to be 0.02 mg/L which exceeds the maximum allowable concentration, 0.01 mg/L, of arsenic. Results obtained from the water sample have been provided in Appendix C. Recommended treatments for arsenic removal are as follows; Reverse Osmosis System, Distillation System, Water Softener, Anionic Exchange System and Iron Oxide Filter System. The developer shall obtain a water sample/water quality test at the time of lot development and domestic well installation in order to ensure compliance with drinking water quality standards. If results are inconclusive, water treatment shall be implemented to satisfy drinking water quality standards. Please note that although the water quality adheres to NMED regulations, in some instance’s individuals may not find the quality of water satisfactory for their needs. Should this be the case, property owners may choose to treat their water through the use of filtration, RO Units, water softeners, etc. If an individual choses to use one of the systems formerly provided, they are responsible for the cost of installation and operation.

The recommended average depth for a domestic well is approximately 290 feet. Historically, the waters below this depth have been found to be potable with moderate hardness and mineral content. Domestic wells shall be constructed with well design...
surface seals in order to prevent surface contamination from entering the well and will be the responsibility of the buyer.

Individual lot owners can install individual water wells any time after the date of closing after field location. At the time of well development, it is the well driller’s responsibility to make sure the well will be located a minimum distance of 200 foot from any existing or proposed septic tank or leach field. As all the lots in this development are at or over 0.75 acres in size, this separation can be easily achieved. As indicated in the Water Supply Plan, all domestic water for this development will be supplied by on-lot wells. Private wells are not regulated by the New Mexico Public Utility Commission or subject to the standards of the New Mexico Environment Department (NMED). It is strongly recommended that water samples are taken to and tested after each individual well is completed.

24. **NEW MEXICO ENVIRONMENT DEPARTMENT’S OPINION ON WATER QUALITY**
   The New Mexico Environment Department’s (NMED) opinion on the quality of water is attached in Appendix C as part of the disclosure statement.

25. **LIQUID WASTE DISPOSAL**
   There are no sewer lines servicing this area. Individual septic systems will be used and are the responsibility of the individual property owners.

   The septic system must comply with the New Mexico Environment Department’s Liquid Waste (Septic Tank) Program, Liquid Waste Disposal and Treatment Regulations (NM liquid waste regulation 20.7.3) and requirements for proper installation of residential septic systems. Information can be obtained from the New Mexico Environmental Department’s website [www.nmenv.state.nm.us](http://www.nmenv.state.nm.us). Individual lot owners must submit for the permit to construct this system. No other liquid waste disposal system may be used in this subdivision unless subsequently approved by the New Mexico Environment Department.

   Although there is no evidence at this time to indicate the a high water table is present in this area, a modified waste water treatment will be required if the water table is less than seven feet below the existing grade of the subdivision. Advanced Treatment Systems or elevated Evaporative Transportation Beds will be required. The type and design of these systems must meet NMED requirements.

**NOTE - NO LIQUID WASTE DISPOSAL SYSTEM MAY BE USED IN THIS SUBDIVISION OTHER THAN A SYSTEM APPROVED FOR USE IN THIS**
SUBDIVISION BY THE BOARD OF COUNTY COMMISSIONERS. PRIOR TO OCCUPANCY, ALL LOTS MUST HAVE EVIDENCE OF A FUNCTIONING LIQUID WASTE DISPOSAL SYSTEM INSTALLED BY A LICENSED CONTRACTOR OR PLUMBER IN ACCORDANCE WITH PERMITS ISSUED BY THE NEW MEXICO ENVIRONMENT DEPARTMENT, INSPECTED BY THE CONSTRUCTION INDUSTRIES DIVISION, AND VERIFIED BY THE OFFICE OF BUILDING INSPECTION.

26. NEW MEXICO ENVIRONMENT DEPARTMENT’S OPINION ON LIQUID WASTE DISPOSAL
The New Mexico Environment Department’s (NMED) opinion on liquid waste disposal will be attached in Appendix D as part of the disclosure statement if one is given.

27. SOLID WASTE DISPOSAL
Lot owners may contract with private waste haulers who provide residential industrial solid waste pick-up and disposal at competitive rates OR county operated solid waste transfer stations are available for owners to haul their own refuse. The companies currently providing solid waste pick-up in this area are:

<table>
<thead>
<tr>
<th>Company</th>
<th>Phone Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Southwest Disposal Corp</td>
<td>575-524-8482</td>
</tr>
<tr>
<td>Mesilla Valley Disposal</td>
<td>575-647-9094</td>
</tr>
<tr>
<td>Miles Hauling Service</td>
<td>575-524-8747</td>
</tr>
<tr>
<td>Silva Sanitation</td>
<td>575-233-2134</td>
</tr>
</tbody>
</table>

28. NEW MEXICO ENVIRONMENT DEPARTMENT’S OPINION ON SOLID WASTE DISPOSAL
The New Mexico Environment Department’s (NMED) opinion on solid waste disposal will be attached in Appendix E as part of the disclosure statement if one is given.
29. **TERRAIN MANAGEMENT**

a) Hydrologic soil classification was determined from soil survey information available from the local Natural Resources Conservation Services field office. Soil Survey of Doña Ana County Area published by the U.S. Department of Agriculture and the Natural Resources Conservation Service was used for this drainage study.

<table>
<thead>
<tr>
<th>Soil Type &amp; Name</th>
<th>% Area Covered</th>
<th>Hydrologic Soil Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ar - Anthony Vinton Loam</td>
<td>4.7 %</td>
<td>B</td>
</tr>
<tr>
<td>Aw - Armijo Clay Loam</td>
<td>24.0 %</td>
<td>D</td>
</tr>
<tr>
<td>Gf - Glendale Clay Loam</td>
<td>26.2 %</td>
<td>B</td>
</tr>
<tr>
<td>Hg - Harkey Loam</td>
<td>45.1 %</td>
<td>B</td>
</tr>
</tbody>
</table>

The Natural Resources Conservation Service classifies the soils in the project area as hydrological soil group "B & D". The pre-development condition of the land is that of a natural state, typically covered with native vegetation.

The 32.78 +/- acre tract in the Berino, New Mexico area constitutes in part, the east mesa, which extends west from the Franklin Mountain Range area to the edge of the Rio Grande floor. The drainage pattern is comparatively stable and is directed west towards the Rio Grande.

The subject property found to be within "Zone X" - Areas of 500-year flood; areas of 100-year flood with average depths of less than 1 foot or with drainage areas less than 1 square mile and can be further identified on FIRM No. 35013C1525G, dated July 06, 2016. Please be aware that the subject property is still susceptible to localized flooding despite not being identified within a FEMA Special Flood Hazard Area.

No lots are located on slopes exceeding 8 %. The geographical location of this development provides for very low peak runoff rates. It is recommended that any future building pads be constructed with a minimum finished pad elevation of 12 inches above the existing grade to be shown on the construction drawings. The fill material should be compacted to 95 percent of ASTM D1557 and extended 5 feet beyond the perimeter of the home, then extended to natural ground at a slope not to exceed 3.2:1.

The total stormwater generated by the development of Orchard Estates Subdivision shall be contained within the agricultural preservation and ponding easement as identified on the subdivision plat. The proposed ponding areas shall contain the entire 100-year storm event. Individual on-lot ponds are only required if the approved grading and drainage plan is not strictly adhered to. Should the individual homeowner choose not to comply with the grading and drainage plan as submitted and approved for this subdivision, then a licensed engineer shall create a ponding area such that the entire 100-year storm shall be contained. It is most important to note that no additional storm water is proposed to exit the property.
30. **NATURAL RESOURCE CONSERVATION DISTRICT’S OPINION ON TERRAIN MANAGEMENT**
The Natural Resource Conservation District’s opinion on terrain management will be attached in Appendix F as part of the disclosure statement if one is given. A Terrain Management Plan will be forwarded for their review.

31. **SUBDIVISION ACCESS**
The nearest town to the subdivision is Berino, New Mexico 3 miles to the west. From Interstate 10 and Vado, exit the off ramp travel south on NM 478 to Joy Drive, then north on Opitz Road for approximately 0.3 miles, then west on Aldaz Road for approximately 0.5 to the subdivision access roads. The subdivision is accessible in all seasons of the year and under all weather conditions by conventional vehicle. Internal roadways will be paved and maintained by the subdivision owner until lots are sold, then by the individual lot owners in accordance with a roadway maintenance agreement.

32. **MAINTENANCE**
Maintenance of the access roads and internal roadways associated with this development are the responsibility of the subdivision owner until lots are sold, then by the individual lot owners in accordance with a roadway maintenance agreement. Ponding/agricultural areas maintenance on each lot will be the responsibility of individual lot owners for that portion that portion located on their property.

33. **STATE HIGHWAY DEPARTMENT’S OPINION ON ACCESS**
The Orchard Estates does not access a state highway. The New Mexico State Highway & Transportation Department’s opinion on access will be attached in Appendix G as part of the disclosure statement if one is given.

34. **CONSTRUCTION GUARANTEES**
The developer prior to filing the final plat will complete all internal construction improvements associated with this development. A letter of credit option is available to secure completion of proposed improvements.

NOTE: UNLESS THERE IS A SUFFICIENT BOND, LETTER OF CREDIT OR OTHER ADEQUATE COLLATERAL TO SECURE THE COMPLETION OF PROPOSED IMPROVEMENTS, IT IS POSSIBLE THAT THE PROPOSED IMPROVEMENTS WILL NOT BE COMPLETED, CAUTION IS ADVISED.
35. **ADVERSE OR UNUSUAL CONDITIONS**
To the best of the developer's knowledge, there are no adverse or unusual conditions affecting this property other than the following. Maintenance of on-lot stormwater ponding will be the responsibility of each individual lot owner. Maintenance of the access roads and internal roadways associated with this development are the responsibility of the individual property owners as dictated in the Road Maintenance Agreement until accepted for maintenance by the Dona Ana Board of County Commissioners. Please be aware that a flood study is being undertaken within this area. The results of this flood study may change the flood hazard designation of this property. The flood study was started in response to flooding complaints, possible flood hazards in your area, gathered detailed flood data, and topographic features, along with being an essential element for proper floodplain management planning. The purchase of flood insurance may be mandatory as a condition of building in Special Flood Hazard Areas. Please contact the Dona Ana Flood Commission for further information. Lot owners are also obligated to adhere to the Restrictive Covenants (if provided) in Appendix A.

36. **RECREATIONAL FACILITIES**
The city of Anthony, Texas to the south has a large water park that serves both Las Cruces and El Paso. Las Cruces to the north has many State Parks and various municipal athletic leagues. El Paso also has many State Parks and recreational leagues. Elephant Butte Reservoir is located 85 miles to the north in Truth or Consequences and offers boating, fishing, and other water sports.

37. **FIRE PROTECTION**
Fire protection is provided by the Doña Ana County Fire and Emergency Services Anthony District #2. The Lower Rio Grande Public Water Works Authority and fire department shall test the proposed fire hydrants located within the development of Phase 3 and 4 to determine if the minimum Fire Protection requirements have been met, if not, a fire sprinkler system will be required. For the proposed development of Phase 5, a sprinkler system will be required to provide minimum Fire Protection. Therefore, at the time of home construction, lot owners are required to install a national fire protection association (NFPA) 13-D sprinkler system in residential dwelling. Water system/well/sprinkler system will be required to supply sufficient yield and contain all required equipment to satisfy this type of sprinkler system. Required inspections and maintenance of the sprinkler system is the responsibility of the individual lot owner. Only the Doña Ana County Fire Marshal may modify or remove limitations.
38. **POLICE PROTECTION**
The Doña Ana County Sheriff’s Department has jurisdiction to emergency calls.

39. **PUBLIC SCHOOLS**
Elementary School students will attend the Berino Elementary School, which is, located approximately 3 miles from the subdivision.
Middle School students will attend the Gadsden Middle School that is located approximately 20 miles from the subdivision.
Senior High students will attend the Gadsden High School, which is located approximately 21 miles from the subdivision.

40. **HOSPITALS**
Memorial Medical Center (full service facility) 2450 S. Telshor in Las Cruces, New Mexico is approximately 20 miles north accessible off Interstate 10.
Sierra Medical Center, a full service health care facility, 1625 Medical Center Drive, in El Paso, Texas is approximately 25 miles to the south.
Providence Memorial Hospital, a full service health care facility, 2001 N. Oregon, in El Paso, Texas is approximately 25 miles to the south and accessible off Interstate 10.

41. **SHOPPING FACILITIES**
La Feria Shopping Center is approximately 10 miles to the southwest of the subdivision in Anthony, Texas. Las Cruces offers shopping malls (Mesilla Valley Mall) with many major retailers available, approximately 25 miles north. El Paso has many shopping malls as well (Sunland Park Mall) approximately 15 miles to the south and accessible off Interstate 10.

42. **PUBLIC TRANSPORTATION**
There is no, nor is there any anticipated form of public transportation provided to the subdivision.

43. **AGRICULTURE**
New Mexico law includes statute (NMSA47-9) cited as the "Right to Farm Act." According to this law, "any agricultural operation or facility is not, nor shall it become, a private or public nuisance by any changed condition in or about the locality of the operation or facility, if the operation was not a nuisance at the time it began and has been in existence
for more than a year." The Right to Farm Act includes, but is not limited to, operations and facilities within the farm or ranch such as: chemical application, field preparation, irrigation, cultivation, conservation practices, pruning, plowing, planting, roadside market or any other use of the land for the production of plants, crops, trees, forest products, orchard crops, livestock, poultry or fish.
44. CULTURAL AND HISTORIC PROPERTIES PROTECTION
There are not any properties within the boundary of this subdivision that have been entered into the New Mexico Register of Cultural Properties. Any such properties entered in the Register must comply with the requirements of the Cultural Properties Act 18-6-1 through 18-6-17 NMSA 1978 and all applicable laws regarding cultural properties and archaeological sites. No investigation into unmarked burials has been made. During subdivision construction, it is the developer's responsibility to report any unmarked burials that are discovered to the State Medical Investigator or to the State Historic Preservation Office. After the subdivision construction and subsequent lot sale, it is the buyer's responsibility to report any unmarked burials that are discovered to the State Medical Investigator or to the State Historic Preservation Office.

45. CERTIFICATION AND NOTARY
I certify that the information provided by me in this disclosure statement is true and correct.

[Signature]
Eugene Burkeholder

Print your name here

[Address]
900 W Joy Dr

City, State and Zip Code

[Telephone number(s)]
575-692-5934

Corporation or Partnership

SUBSCRIBED AND SWORN before me this 12th day of April, 2018.

[Notary Public]
Griselda V. Escalante

State of New Mexico

My commission expires
May 7, 2019

[Seal of Notary Public]
OFFICIAL SEAL
Griselda V. Escalante
NOTARY PUBLIC
STATE OF NEW MEXICO

My Commission Expires
May 7, 2019
Declaration of Restrictive Covenants

Whereas, Eugene Burkeholder, hereinafter referred to as "Declarant," as owner of the following described real property located in Doña Ana County, New Mexico, hereinafter referred to as "property:" Description of property is provided as Exhibit "A", attached and made a part hereof.

And whereas, the Declarant intends to convey the property subject to certain restrictive covenants, as hereinafter set forth:

Know therefore, the Declarant restricts the property as follows:

SEE ATTACHED

In witness the Declarant has executed this Declaration on the 12th day of April, 2018.

[Signature]
Eugene Burkeholder

Acknowledgment

State of New Mexico
County of Doña Ana

The foregoing instrument was acknowledged before me on the 12th day of April, 2018 by Eugene Burkeholder.

[Signature]
Griselda V. Escalante
Notary Public

My Commission Expires May 7, 2019

OFFICIAL SEAL
Griselda V. Escalante
NOTARY PUBLIC
STATE OF NEW MEXICO

My Commission Expires May 7, 2019
ORCHARD ESTATES
BERINO, NEW MEXICO

WATER SUPPLY PLAN

PREPARED FOR

Mr. Eugene Burkeholder
900 West Joy Drive
Anthony, NM 88021

PREPARED BY

Southwest Engineering, Inc.
475 Archuleta Road
Las Cruces, New Mexico 88005

May 23, 2013
WATER SUPPLY PLAN
ORCHARD ESTATES PHASE 3 THRU 5

The Orchard Estates Phase 3 thru 5 Subdivision is located within the service area of the Lower Rio Grande Public Water Works Authority and shall supply potable water to the development of phase 3 and 4. The water supply for the development of Phase 5 shall be from on-site domestic wells. The water well is the responsibility of the buyer. The maximum water available from individual wells is 0.75 acre feet per lot per year.

All individuals considering purchase of land in the Orchard Estates Phase 5 Subdivision are advised that the depth of and availability of potable water for domestic use in this subdivision is not certain.

There are domestic wells in close proximity to the subdivision. On-site wells for domestic purposes represent the most economically feasible method of obtaining potable water. The following table shows the minimum recommended construction parameters for a typical domestic well:

<table>
<thead>
<tr>
<th>Description</th>
<th>Minimum Recommended Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Well Diameter</td>
<td>10 inch</td>
</tr>
<tr>
<td>Casing Diameter (inside)</td>
<td>6 inch</td>
</tr>
<tr>
<td>Well Pump Size</td>
<td>½ horsepower or greater</td>
</tr>
<tr>
<td>Average Well Depth</td>
<td>200 to 380 feet</td>
</tr>
<tr>
<td>Estimated Yield</td>
<td>25 to 50 gpm</td>
</tr>
<tr>
<td>Estimated Cost ($15/ft cased)</td>
<td>$7,800 to $9,000</td>
</tr>
</tbody>
</table>

Water for other than domestic purposes should not be provided through on-site wells. The New Mexico State Engineer's Office will require that a permit be obtained for a domestic well prior to its construction. The well should be constructed by a New Mexico contractor licensed as a qualified well driller.
August 24, 2018

Eugene Burkeholder and Petr Chylek  
Las Cruces Community Farms LLLP  

RE: Letter of Commitment to Provide Water Service to Orchard Estates Subdivision Phase 3 and 4: 8 Residential Lots  

Dear Mr. Burkeholder and Mr. Chelek:  

The Authority is ready, willing, and able to provide residential water service, as well as fire flows to the residential subdivision as necessary, subject to the following conditions:  

1) Applicant shall provide a final plat with easements and a final set of construction drawings to be approved by the Authority’s engineer and operations staff, and only after approval may the water system improvements be installed. The Authority’s engineer and operations staff shall be provided prior to construction, copies of all permits, easements, and other documents required by regulatory agencies, for review by the Authority’s attorney.  

2) Applicant shall construct at its own cost all necessary on-site and off-site facilities to connect to the subdivision to the Authority’s existing infrastructure and to upgrade any portion of the Authority’s system to accommodate the water demands of the Applicant’s subdivision, including storage tanks for fire flow protection if required. All valves, fire hydrants, meter yokes assemblies, meters, and other materials utilized shall be of the same quality as those used by the Authority and must be approved by the Authority’s engineer and operations staff prior to installation.  

3) Applicant agrees that all related distribution water lines, including services lines, fire hydrants, valves and related fittings, and meter yoke assemblies, excluding meters with the subdivision, hydrant, etc. are to be constructed and installed by a licensed utility contractor, to meet the Authority’s specifications. The meters shall be delivered to the Authority. Any contractor hired by the Applicant is also responsible for coordinating the inspection, pressure test, and microbiological tests with the Authority.  

4) The Applicant will be responsible for all maintenance or repair on the distribution water lines, including service lines, fire hydrants, valves and related fittings, meter yoke assemblies, and the meters within the distribution system, for a warranty period of one (1) year after acceptance of the water facilities construction by the Authority. During this one year period, the Applicant shall perform
all maintenance and repairs promptly on the water facilities and be responsible for insuring against any liability. Should the Authority be required to perform any repairs due to failure of the Applicant to do so within a reasonable time, the Applicant shall be required to reimburse the Authority for any costs incurred for any time, equipment, and materials expended.

5) One (1) calendar year from acceptance by the Authority of the construction of the water facilities, the water distribution infrastructure system, including storage tanks if required, but excluding that portion on the user side of the meter, shall be transferred by the Applicant and become the property of the Authority, at which time maintenance on the water infrastructure up to and including the meter shall become the responsibility of the Authority.

6) Payments under the customer policies of the Authority, such as connections fees, assessments, membership fees, and other charges or impact fees shall be determined at a later date based on the then existing rates, charges, and necessary assessments of the Authority shall include such information in the subdivision’s disclosure statement.

7) Both Applicant and the Authority acknowledge that connecting the subdivision to the Authority’s system to enable the Authority to sell water to the residential lot owners will require the Applicant to construct and/or pay for all off-site improvements, if any, which have not yet been identified.

8) The commitment becomes void six (6) months from the date of this approval, if Count approval for subdivision has not been obtained by Applicant within the six month period.

9) The entitlement of the residential lots to receive domestic water from the Authority shall terminate if there is any attempt to place non-residential uses on the lots or any portion of the subdivision presently identified as open spaces, parks, agriculture, or used for other purposes apart from placement of a residence.

10) Applicant acknowledges and agrees that it shall comply with the Authority’s Water Rights Acquisition Policy, which will require the Applicant to acquire and transfer ownership of groundwater rights sufficient to serve the residential lots, or in whatever amount the Office of State Engineer determines is required to serve the residential subdivision or payment in lieu of water rights transfer. Applicant will meet this requirement at the time of entering into a formal Agreement to Provide Water Service after the subdivision has received County approval. At that time, Applicant agrees it will provide and transfer sufficient water rights to the Authority to comply with the required acre feet of water right per lot. The Applicant has selected the option for payment in lieu of transferred water rights.

11) Upon approval of the Applicant’s proposed subdivision by the County and after acquiring all other required governmental approvals, if any, the Authority and Applicant shall enter into a formal Agreement to Provide Water Service.
Regards,

Martin G. Lopez, GM
LRGPWWA
Well LRG-9687
Well LRG-44

Legend

- Wells
  - DAC Roads
  - DAC Parcels

State of New Mexico
Office of the State Engineer
District IV, Las Cruces

Aerial Photography - 2009 (1 ft resolution)

Created By: JRH
03-JUN-2011
STATE ENGINEER OFFICE
WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well: O. Escalante, Alamosa
Owner's Well No.: 
Street or Post Office Address: P.O. Box 2371
City and State: Alamosa Co.

Well was drilled under Permit No.: ARG 9687 and is located in the:

1. 1/4 SE 1/4 NE 1/4 SE 1/4 of Section 16 Township 37S, Range 3E, N.M.P.M.
2. Tract No. 20, Block No. 45 of the W.R. & M. County.
3. X= feet, Y= feet, N.M. Coordinate System
4. Zone in the 

(B) Drilling Contractor: Anthony R. S. (Drilling Contractor)
Address: 139 Davis Street
Drilling began: 3-10-97 Completed: 3-28-97 Type of tools: Mud Rotary
Size of hole: 10' in.
Elevation of land surface or at well is: 80' ft. Total depth of well: 80' ft.
Completed well is: 

Section 2. PRINCIPAL WATER-BEARING STRATA

<table>
<thead>
<tr>
<th>From</th>
<th>To</th>
<th>Depth in Feet</th>
<th>Thickness in Feet</th>
<th>Description of Water-Bearing Formation</th>
<th>Estimated Yield (gallons per minute)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0/15</td>
<td>80</td>
<td>0/15 80</td>
<td>20</td>
<td>Small Gravel</td>
<td>0/15 80</td>
</tr>
</tbody>
</table>

Section 3. RECORD OF CASING

<table>
<thead>
<tr>
<th>Diameter (inches)</th>
<th>Pounds per foot</th>
<th>Threads per in.</th>
<th>Depth in Feet</th>
<th>Length (feet)</th>
<th>Type of Shoe</th>
<th>Perforations</th>
</tr>
</thead>
<tbody>
<tr>
<td>4/11</td>
<td></td>
<td></td>
<td>0/15 60</td>
<td>FLC CAP</td>
<td>60 80</td>
<td></td>
</tr>
</tbody>
</table>

Section 4. RECORD OF MUDDING AND CEMENTING

<table>
<thead>
<tr>
<th>Depth in Feet</th>
<th>Hole Diameter</th>
<th>Sacks of Mud</th>
<th>Cubic Feet of Cement</th>
<th>Method of Placement</th>
</tr>
</thead>
<tbody>
<tr>
<td>0/15 10 100</td>
<td></td>
<td></td>
<td></td>
<td>Hand mix</td>
</tr>
</tbody>
</table>

Section 5. PLUGGING RECORD

APR 02 1997

Plugging Contractor: 
Address: 
Plugging Method: 
Date Well Plugged: 
Plugging approved by: 
State Engineer Representative: 

Date Received: April 2, 1997

FOR USE OF STATE ENGINEER ONLY

File No.: ARG 9687
Use: Domestic
Location No.: 79.38.15.424

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### Section 6. LOG OF HOLE

<table>
<thead>
<tr>
<th>Depth in Feet</th>
<th>Thickness in Feet</th>
<th>Color and Type of Material Encountered</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>5</td>
<td>Top Soil</td>
</tr>
<tr>
<td>5</td>
<td>40</td>
<td>Sand</td>
</tr>
<tr>
<td>40</td>
<td>80</td>
<td>Gravel/Sand</td>
</tr>
</tbody>
</table>

**Section 7. REMARKS AND ADDITIONAL INFORMATION**

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

**INSTRUCTIONS:** This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1 and Section 5 need be completed.
Declarations of Owner of Underground Water Right

DOHA AND COUNTY

Date: July 27, 1965

I, being first duly sworn upon my oath, depose and say that the following is a full and complete statement prepared in accordance with the instructions on the reverse side of this form and submitted in evidence of ownership of a valid underground water right, that I have carefully read each and all of the items contained therein and that the same are true to the best of my knowledge and belief.

[Signature]

[Dates of commission expire 3-26-59.]

1. Name of water right owner: Colquitt Co.

2. Source of water supply: Shallow (ground water or pillager water found.

3. The well is located in the

4. Description of well: Drilled 1944, drill size 12", depth 70 feet

5. The quantity of water appropriated and beneficially used for: [specific purposes]

6. The acreage actually irrigated and with water right: 35 a.

7. Water was first applied to basis by [basis of water use] and since that time has been used only by [description of use]

Additional statements or explanations.

[Reversal of the form:]

Page 174 of 299
Locate well and areas actually irrigated as accurately as possible on following plat:

Section (a) ___________, Township _______ Sec. ___________, Range _______ N. M. F. M.

INSTRUCTIONS

Declaration shall be executed (preferably typewritten) in triplicate and must be accompanied by a $1.00 filing fee. Each of triplicate copies must be properly signed and attested.

A separate declaration must be filed for each well in use.

All blanks shall be filled out fully. Required information which cannot be sworn to by declarant shall be supplied by affidavit of person or persons familiar with the facts and shall be submitted herewith.

Sec. 1-3. Complete all blanks.
Sec. 4. Fill out all blanks applicable as fully as possible.
Sec. 5. Irrigation use shall be stated in feet depth or acre feet of water per acre applied on the land. If used for domestic, municipal, or other purposes, state total quantity in acre feet used annually.
Sec. 6. Describe only the acreage actually irrigated. When necessary to clearly define irrigated acreages, describe to nearest ½ acre subdivision. If located on unsurveyed lands, describe by legal subdivision “as projected” from the nearest government survey corners, or describe by metes and bounds and tie survey to some permanent, easily-located natural object.
Sec. 7. Explain and give dates as nearly as possible of any years when all or part of acreage claimed was not irrigated.
Sec. 8. If well irrigates or supplies supplemental water to any other land than that described above, or if land is also irrigated from any other source, explain under this section. Give any other data necessary to fully describe water right.

If additional space is necessary, use a separate sheet or sheets and attach securely hereto.
April 25, 2012

Mr. Jonathan Kesler  
Planning and Development Department  
Doña Ana County  
845 N. Motel Blvd.  
Las Cruces, NM  88007  

Re: Orchard Estates Subdivisión  

Dear Mr. Kesler:

The Water Use & Conservation/Subdivision Review Bureau of the Office of the State Engineer has reviewed the referenced subdivision proposal pursuant to the Doña Ana County Subdivision Regulations and the New Mexico Subdivision Act.

Based on the information provided, this office has determined that the subdivider can furnish water sufficient in quantity to fulfill the maximum annual water requirements of the subdivision, including water for indoor and outdoor domestic uses, and that the subdivider can fulfill the proposals in his disclosure statement concerning water, excepting water quality. Accordingly, a positive opinion is issued.

A staff memorandum providing specific comments is attached for your information. If you have any questions, please call Julie Valdez at 505-827-6790.

Sincerely,  

[Signature]

John W. Longworth, P.E.  
Water Use & Conservation/Subdivision Review Bureau Chief

Encl.

cc: OSE Water Rights Division, Las Cruces Office
MEMORANDUM
New Mexico Office of the State Engineer
Water Use and Conservation Bureau

DATE: April 25, 2012
TO: John Longworth, P.E. Water Use & Conservation Bureau Chief
FROM: Julie Valdez, Senior Water Resource Specialist
SUBJECT: Orchard Estates Subdivision in Doña Ana County

SUMMARY
On April 3, 2012 the Office of the State Engineer (OSE) received a request to provide comments for Phase I and II of the Orchard Estate subdivision Final Plat.

The applicant seeks approval from Dona Ana County for Phase I and II of the Final Plat. The proposed subdivision will be developed in five phases as follows:

- Phase I - Lots 1, 2, 6, 7 & 8
- Phase II - Lots 3 - 5
- Phase III - Lots 9, 10, 15 and 16
- Phase IV - Lots 11 - 14
- Phase V - Lots 17 - 23


The developer proposes to subdivide 40.09 acres into 23 residential lots ranging in size from 0.83 acres to 5.30 acres. The applicant proposes that the water will be provided by individual 72-12-1.1 domestic wells. The property is located northwest of Anthony between W. Joy Road and Aldaz Road east of Bosque Road within projected Section 16, Township 26 South, Range 3 East, NMPM.

The water supply documents submitted to this office consist of a Disclosure Statement, Water Supply Plan, Well Logs and a Plat Map.

The proposal was reviewed pursuant to the Doña Ana County Subdivision Regulations (Regulations) and the New Mexico Subdivision Act (Act). The water supply proposal is in compliance with the requirements of Section 14.3.5.B of the Regulations and Sections 47-6-11-F (1) of the Act. Accordingly a positive opinion should be issued.

WATER DEMAND ANALYSIS AND WATER CONSERVATION
Under Item No. 17 of the Disclosure Statement, the subdivider has quantified the maximum annual water requirements of the subdivision in accordance with Section 14.3.2.A of the Regulations. The maximum annual water requirement for both indoor and outdoor purposes, for each parcel in a residential subdivision, shall be 0.75 acre-feet per year unless a detailed water demand analysis approved by the State Engineer’s Office justifies the use of a different figure. The total annual water requirement for the subdivision in acre-feet per year is computed by
multiplying the number of parcels by 0.75. The total maximum annual water demand for the subdivision is 17.25 acre-feet.

Review of Item No. 17 of the Disclosure Statement found that an error was made in determining the total annual water demand for the subdivision. The developer states that “the total annual water requirement for the subdivision is computed by multiplying the number of parcels by 0.75 acre feet per lot per year for a total of 3.75 acre-feet”. It appears that developer mistakenly used 5 lots and not the proposed 23 lots. It is recommended that the developer amend the Disclosure Statement accordingly.

Water conservation measures are included under Item No. 17 of the Disclosure Statement. The water conservation measures include the utilization of low flow plumbing fixtures, limiting lawns to a maximum of 3,000 square feet per lot, and low-water use landscaping techniques applying the principles of xeriscape.

WATER AVAILABILITY ASSESSMENT
The proposed water supply for the subdivision is individual 72-12-1 domestic wells to be constructed by the purchaser. Section 14.3.5.B of the Regulations requires at least one well log from an on-site well or from an existing nearby well, a description of the water bearing formations including a statement of the maximum and minimum depths of water, and a statement of the estimated yield of wells in gallons per minute bases on well logs from existing or nearby wells. The developer has provided a Declaration of Owner of Underground Water Right for well LRG 44 and one Well Record for LRG 9687.

Under item No. 19 of the Disclosure Statement the developer recommends that the wells be drilled between 200 to 380 feet deep and estimates yields to be 25 to 50 gpm. Theses well parameters are a conservative representation of the well data for LRG 44 and LRG 9687.

Based on the information provided, the developer has demonstrated that wells that have been completed in the vicinity of the proposed subdivision produce water in sufficient quantities to meet domestic demands.
ORCHARD ESTATES
BERINO, NEW MEXICO

WATER QUALITY PLAN

PREPARED FOR

Mr. Eugene Burkeholder
900 West Joy Drive
Anthony, NM 88021

PREPARED BY

Southwest Engineering, Inc.
475 Archuleta Road
Las Cruces, New Mexico 88005

May 23, 2013
Located within the immediate vicinity of the proposed development there are currently active domestic wells. A water quality test was completed on October 2011 from one of the existing wells, Well LGR-44. Results determined that the sample exceeded the maximum allowable levels of arsenic as regulated by NMED Drinking Water Bureau's Drinking Water Regulations (20.7.10 NMAC). The concentration of arsenic found within the sample was determined to be 0.02 mg/L which exceeds the maximum allowable concentration, 0.01 mg/L, of arsenic. Results obtained from the water sample have been provided in Appendix C. Recommended treatments for arsenic removal are as follows: Reverse Osmosis System, Distillation System, Water Softener, Anionic Exchange System and Iron Oxide Filter System. The developer shall obtain a water sample/water quality test at the time of lot development and domestic well installation in order to ensure compliance with drinking water quality standards. If results are inconclusive, water treatment shall be implemented to satisfy drinking water quality standards. Please note that although the water quality adheres to NMED regulations, in some instance’s individuals may not find the quality of water satisfactory for their needs. Should this be the case, property owners may choose to treat their water through the use of filtration, RO Units, water softeners, etc. If an individual choses to use one of the systems formerly provided, they are responsible for the cost of installation and operation.

The recommended average depth for a domestic well is approximately 290 feet. Historically, the waters below this depth have been found to be potable with moderate hardness and mineral content. Domestic wells shall be constructed with well design surface seals in order to prevent surface contamination from entering the well and will be the responsibility of the buyer.

Individual lot owners can install individual water wells any time after the date of closing after field location. At the time of well development, it is the well driller's responsibility to make sure the well will be located a minimum distance of 200 foot from any existing or proposed septic tank or leach field. As all the lots in this development are at or over 0.75 acres in size, this separation can be easily achieved.

As indicated in the Water Supply Plan, all domestic water for this development will be supplied by on-lot wells. Private wells are not regulated by the New Mexico Public Utility Commission or subject to the standards of the New Mexico Environment Department (NMED). It is strongly recommended that water samples are taken to and tested after each individual well is completed. Utility companies typically send in four (4) samples per year to assure the water quality.
April 30, 2012

Jonathan Kesler
845 N. Motel Blvd
Las Cruces, NM 88007

RE: Orchard Estates (NMED File No. 3684ER)

Dear Mr. Kesler:

Your letter regarding the above named project was received in the New Mexico Environment Department (NMED) and was sent to various Bureaus for review and comment. Comments were provided by the Surface Water Quality Bureau, Ground Water Quality Bureau and Air Quality Bureau and are as follows.

Surface Water Quality Bureau

The U.S. Environmental Protection Agency (USEPA) requires National Pollutant Discharge Elimination System (NPDES) Construction General Permit (CGP) coverage for storm water discharges from construction projects (common plans of development) that will result in the disturbance (or re-disturbance) of one or more acres, including expansions, of total land area. Because this project may exceed one acre (including staging areas, etc.), it may require appropriate NPDES permit coverage prior to beginning construction (small, one - five acre, construction projects may be able to qualify for a waiver in lieu of permit coverage - see Appendix D). If the project is less than one acre, these construction activities should be addressed under the City's industrial storm water permit and Storm Water Pollution Prevention Plan (SWPPP).

Among other things, this permit requires that a SWPPP be prepared for the site and that appropriate Best Management Practices (BMPs) be installed and maintained both during and after construction to prevent, to the extent practicable, pollutants (primarily sediment, oil & grease and construction materials from construction sites) in storm water runoff from entering waters of the U.S. This permit also requires that permanent stabilization measures (revegetation, paving, etc.), and permanent storm water management measures (storm water detention/retention structures, velocity dissipation devices, etc.) be implemented post construction to minimize, in the long term, pollutants in storm water runoff from entering these waters. In addition, permittees must ensure that there is no increase in sediment yield and flow velocity from the construction site (both during and after construction) compared to pre-construction, undisturbed conditions (see Subpart 10.C.1.b).

You should also be aware that EPA requires that all "operators" (see Appendix A) obtain NPDES permit coverage for construction projects. Generally, this means that at least two parties will require permit coverage. The owner/developer of this construction project who has operational control over project specifications (probably the City of Belen in this case), the general contractor who has day-to-day operational control of those activities at the site, which are necessary to ensure compliance with the storm
water pollution plan and other permit conditions, and possibly other "operators" will require appropriate NPDES permit coverage for this project.

The CGP was re-issued effective February 16, 2012. If you have coverage under the 2008 permit, you must submit your Notice of Intent under this permit by May 16, 2012. The CGP, NOI, Fact Sheet, and Federal Register notice can be downloaded at: 
http://cfoub.epa.gov/npdes/stormwater/cgp.cfm

Ground Water Quality Bureau
Ground Water Quality Bureau staff reviewed the above-referenced document as requested, focusing specifically on the potential effect to ground water quality in the area of the proposed project.

The request states that a 40.09-acre parcel is proposed to be developed in five phases. The parcel is addressed as 900 W. Aldaz Road located northwest of Anthony, NM within Section 16, T26S, R3E. While implementation of this project is not expected to have any adverse effects on ground water quality, domestic wastewater generated from these properties must be handled in a manner that is protective of ground water quality.

It is unclear in the request as to the disposal method of liquid waste on the proposed properties. If domestic waste is or will be disposed of on the property, the developer or property owners must obtain a liquid waste permits issued by NMED's Environmental Health Division pursuant to 20.7.3 NMAC for conventional septic tank disposal systems installed on the properties. Any liquid wastewater disposal systems that exceed a designed daily discharge rate of 2,000 gallons per day may require a ground water discharge permit pursuant to 20.6.2 NMAC prior to installation and/or operation. If liquid wastewater is to be delivered offsite to a municipal or regional wastewater treatment system then liquid waste permits or discharge permits will not be required.

This project may involve the use of heavy equipment, thereby leading to the possibility of contaminant releases (e.g., fuel, hydraulic fluid, etc.) associated with heavy equipment malfunctions. The GWQB advises all parties involved in the project to be aware of discharge notification requirements contained in 20.6.2.1203 NMAC. Compliance with the notification and response requirements will ensure the protection of ground water quality in the vicinity of the project.

Air Quality Bureau
A Natural Events Action Plan (NEAP) for Doña Ana County has been prepared and approved by the U.S. Environmental Protection Agency. As part of the NEAP, dust control ordinance #194-2000 was adopted by Doña Ana County. In the future and in accordance with this ordinance, appropriate dust control measures need to be outlined and approved by the county for any soil disturbing activities and should also be addressed in the environmental documentation.

This project will temporarily impact air quality as a result of fugitive dust and exhaust emissions generated. However, with the appropriate dust control measures in place, the increased levels should be minimal. Areas disturbed by the earthmoving activities, within and adjacent to the project area should be reclaimed to avoid long-term problems with erosion and fugitive dust.

All asphalt, concrete, quarrying, crushing and screening facilities contracted in conjunction with the proposed project must have current and proper air quality permits. For more information on air quality permitting and modeling requirements, please refer to 20.2.72 NMAC. Potential emissions from the diesel generator sets should be calculated assuming continuous operation to determine whether a construction permit is required in accordance with 20.2.72.200.A.(1) NMAC.

The project, as proposed, is not anticipated to result in nonattainment of the New Mexico or National Ambient Air Quality Standards or contribute negatively to air quality on a long-term basis.
water pollution plan and other permit conditions, and possibly other "operators" will require appropriate NPDES permit coverage for this project.

The CGP was re-issued effective February 16, 2012. If you have coverage under the 2008 permit, you must submit your Notice of Intent under this permit by May 16, 2012. The CGP, NOI, Fact Sheet, and Federal Register notice can be downloaded at: http://cfpub.epa.gov/npdes/stormwater/cgp.cfm

Ground Water Quality Bureau

Ground Water Quality Bureau staff reviewed the above-referenced document as requested, focusing specifically on the potential effect to ground water quality in the area of the proposed project.

The request states that a 40.09-acre parcel is proposed to be developed in five phases. The parcel is addressed as 900 W. Aldaz Road located northwest of Anthony, NM within Section 16, T26S, R3E. While implementation of this project is not expected to have any adverse effects on ground water quality, domestic wastewater generated from these properties must be handled in a manner that is protective of ground water quality.

It is unclear in the request as to the disposal method of liquid waste on the proposed properties. If domestic waste is or will be disposed of on the property, the developer or property owners must obtain a liquid waste permits issued by NMED's Environmental Health Division pursuant to 20.7.3 NMAC for conventional septic tank disposal systems installed on the properties. Any liquid wastewater disposal systems that exceed a designed daily discharge rate of 2,000 gallons per day may require a ground water discharge permit pursuant to 20.6.2 NMAC prior to installation and/or operation. If liquid wastewater is to be delivered offsite to a municipal or regional wastewater treatment system then liquid waste permits or discharge permits will not be required.

This project may involve the use of heavy equipment, thereby leading to the possibility of contaminant releases (e.g., fuel, hydraulic fluid, etc.) associated with heavy equipment malfunctions. The GWQB advises all parties involved in the project to be aware of discharge notification requirements contained in 20.6.2.1203 NMAC. Compliance with the notification and response requirements will ensure the protection of ground water quality in the vicinity of the project.

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This project will temporarily impact air quality as a result of fugitive dust and exhaust emissions generated. However, with the appropriate dust control measures in place, the increased levels should be minimal. Areas disturbed by the earthmoving activities, within and adjacent to the project area should be reclaimed to avoid long-term problems with erosion and fugitive dust.

All asphalt, concrete, quarrying, crushing and screening facilities contracted in conjunction with the proposed project must have current and proper air quality permits. For more information on air quality permitting and modeling requirements, please refer to 20.2.72 NMAC. Potential emissions from the diesel generator sets should be calculated assuming continuous operation to determine whether a construction permit is required in accordance with 20.2.72.200.A.(1) NMAC.

The project, as proposed, is not anticipated to result in nonattainment of the New Mexico or National Ambient Air Quality Standards or contribute negatively to air quality on a long-term basis.
I hope this information is helpful to you.

Sincerely,

Julie Roybal
Environmental Impact Review Coordinator
NMED File #3684ER
December 27, 2011

Jonathan Kesler
845 N. Motel Blvd
Las Cruces, NM 88007

RE: Letter from Dona Ana County Community Development Department Regarding the Development of the Orchard Estates Subdivision, Dona Ana County, NM (NMED File No. 3584ER)

Dear Mr. Kesler:

Your letter regarding the above named project was received in the New Mexico Environment Department (NMED) and was sent to various Bureaus for review and comment. Comments were provided by the Ground Water Quality Bureau and are as follows.

Ground Water Quality Bureau
GWQB staff reviewed the above-referenced document as requested, focusing specifically on the potential effect to ground water quality in the area of the proposed project.

The letter provides limited information for the development of the Orchard Estates Subdivision located on Aldaz Road northeast of Anthony, NM, in Section 16, T26S, R3E. The proposed subdivision consists of a 40.09 acre parcel that will contain 23 lots ranging from 0.83 to 5.3 acres. While implementation of this project is not expected to have any adverse effects on ground water quality, domestic wastewater generated from these properties must be handled in a manner that is protective of ground water quality.

The letter provides only limited information on drinking water quality. The letter does not state whether each property owner is individually responsible for disposal of domestic wastewater associated with their lot. If the property owners propose to utilize conventional septic tank disposal systems, each owner must obtain a liquid waste permits issued by NMED's Environmental Health Division pursuant to 20.7.3 NMAC. Any wastewater disposal system proposed for the subdivision that exceeds a designed daily discharge rate of 2,000 gallons per day will require a ground water discharge permit pursuant to 20.6.2 NMAC prior to installation.
Implementation of the project will likely involve the use of heavy equipment, thereby leading to the possibility of contaminant releases (e.g., fuel, hydraulic fluid, etc.) associated with heavy equipment malfunctions. The GWQB advises all parties involved in the project to be aware of discharge notification requirements contained in 20.6.2.1203 NMAC. Compliance with the notification and response requirements will ensure the protection of ground water quality in the vicinity of the project.

I hope this information is helpful to you.

Sincerely,

Julie Roybal
Environmental Impact Review Coordinator
NMED File #3584 ER
October 28, 2011

Mr. Eugene Burkeholder
900 West Joy Drive
Anthony, New Mexico 88021

Re: Water Quality Test
Orchard Estates Subdivision, Berino, New Mexico
SEI-30121

Dear Mr. Burkeholder;

Southwest Engineering, Inc. is pleased to present the enclosed Water Quality Test results for the above referenced project. Based upon the sampling results dated October 27 for samples collected on October 6, 2011, SEI did not observe any constituent concentrations that would suggest a compromised groundwater quality for the proposed development. In specific, ACZ Laboratories, Inc., 2773 Downhill Drive, Steamboat Springs, Colorado 80487 completed customary EPA test method evaluation of a variety of contaminant indicator parameters and none were found in excess of New Mexico Water Quality Control Commission Standards. These indicators were selected based upon historic use of the subject property and surrounding properties.

Should you have any questions or require any further information, please do not hesitate to contact our office.

Sincerely;

Paul J. Pompeo, P.E.
President

SOUTHWEST ENGINEERING, INC.

[Signature]
From the requirements of the Dona Ana County Subdivision Regulations, Ordinance Number 166-96, Section 14.4.1D “Water Quality for Private Water Supply Systems”, the following information is submitted to determine the required minimum water quality standards.

<table>
<thead>
<tr>
<th>Test Item</th>
<th>Allowable Level</th>
<th>Measured Level</th>
<th>Test Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antimony</td>
<td>0.006</td>
<td>0.003</td>
<td>mg/l</td>
</tr>
<tr>
<td>Arsenic</td>
<td>0.05</td>
<td>0.02</td>
<td>mg/l</td>
</tr>
<tr>
<td>Barium</td>
<td>2</td>
<td>Not Detected</td>
<td>mg/l</td>
</tr>
<tr>
<td>Beryllium</td>
<td>0.004</td>
<td>0.001</td>
<td>mg/l</td>
</tr>
<tr>
<td>Cadmium</td>
<td>0.005</td>
<td>0.002</td>
<td>mg/l</td>
</tr>
<tr>
<td>Chromium (total)</td>
<td>0.1</td>
<td>0.02</td>
<td>mg/l</td>
</tr>
<tr>
<td>Cyanide</td>
<td>0.2</td>
<td>0.001</td>
<td>mg/l</td>
</tr>
<tr>
<td>Fluoride</td>
<td>4.0</td>
<td>1.1</td>
<td>mg/l</td>
</tr>
<tr>
<td>Lead</td>
<td>0.015</td>
<td>0.006</td>
<td>mg/l</td>
</tr>
<tr>
<td>Mercury (inorganic)</td>
<td>0.002</td>
<td>0.001</td>
<td>mg/l</td>
</tr>
<tr>
<td>Nickel</td>
<td>0.1</td>
<td>0.005</td>
<td>mg/l</td>
</tr>
<tr>
<td>Nitrate (as N)</td>
<td>10</td>
<td>6</td>
<td>mg/l</td>
</tr>
<tr>
<td>Nitrite (as N)</td>
<td>1</td>
<td>0.7</td>
<td>mg/l</td>
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<tr>
<td>Selenium</td>
<td>0.05</td>
<td>0.006</td>
<td>mg/l</td>
</tr>
<tr>
<td>Thallium</td>
<td>0.002</td>
<td>0.0004</td>
<td>mg/l</td>
</tr>
<tr>
<td>Alkalinity</td>
<td>Not Specified</td>
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<td>mg/l</td>
</tr>
<tr>
<td>Aluminum</td>
<td>0.05 to 0.2</td>
<td>0.17</td>
<td>mg/l</td>
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<tr>
<td>Calcium</td>
<td>Not Specified</td>
<td>82</td>
<td>mg/l</td>
</tr>
<tr>
<td>Chloride</td>
<td>250 mg/l</td>
<td>170</td>
<td>mg/l</td>
</tr>
<tr>
<td>Color 15 CU</td>
<td>15</td>
<td>11</td>
<td>CU</td>
</tr>
<tr>
<td>Test Item</td>
<td>Allowable Level</td>
<td>Measured Level</td>
<td>Test Units</td>
</tr>
<tr>
<td>--------------------</td>
<td>-----------------</td>
<td>----------------</td>
<td>------------</td>
</tr>
<tr>
<td>Copper</td>
<td>1.0</td>
<td>0.09</td>
<td>mg/l</td>
</tr>
<tr>
<td>Foaming Agents</td>
<td>0.5</td>
<td>0.1</td>
<td>mg/l</td>
</tr>
<tr>
<td>Hardness</td>
<td>250</td>
<td>175</td>
<td>mg/l</td>
</tr>
<tr>
<td>Iron</td>
<td>0.3</td>
<td>0.2</td>
<td>mg/l</td>
</tr>
<tr>
<td>Manganese</td>
<td>0.05</td>
<td>0.03</td>
<td>mg/l</td>
</tr>
<tr>
<td>Odor</td>
<td>3</td>
<td>1</td>
<td>TON</td>
</tr>
<tr>
<td>pH</td>
<td>6.5 to 8.5</td>
<td>7.7</td>
<td>*</td>
</tr>
<tr>
<td>Silver</td>
<td>0.1</td>
<td>0.04</td>
<td>mg/l</td>
</tr>
<tr>
<td>Sodium</td>
<td>100</td>
<td>80</td>
<td>mg/l</td>
</tr>
<tr>
<td>Sulfate</td>
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<td>210</td>
<td>mg/l</td>
</tr>
<tr>
<td>TDS</td>
<td>500</td>
<td>380</td>
<td>mg/l</td>
</tr>
<tr>
<td>Turbidity</td>
<td>5</td>
<td>2</td>
<td>NTU</td>
</tr>
<tr>
<td>Zinc</td>
<td>5</td>
<td>0.8</td>
<td>mg/l</td>
</tr>
</tbody>
</table>
Mr. Deal;

Based on the water sample supplied, the follow contaminant levels were measured per your request based on the following list:

- Antimony - 0.003 mg/l
- Arsenic - 0.02 mg/l
- Barium - Not Detected
- Beryllium - 0.001 mg/l
- Cadmium - 0.002 mg/l
- Chromium (total) - 0.02 mg/l
- Cyanide - 0.001 mg/l
- Fluoride - 1.1 mg/l
- Lead - 0.006 mg/l
- Mercury (inorganic) - 0.001 mg/l
- Nickel - 0.005 mg/l
- Nitrate (as N) - 6 mg/l
- Nitrite (as N) - 0.7 mg/l
- Selenium - 0.006 mg/l
- Thallium - 0.0004 mg/l
- Alkalinity - 160 mg/l
- Aluminum - 0.17 mg/l
- Calcium - 82 mg/l
- Chloride - 170 mg/l
- Color (CU) - 11 CU
- Copper - 0.09 mg/l
- Foaming Agents - 0.1 mg/l
- Hardness - 175 mg/l
- Iron - 0.2 mg/l
- Manganese - 0.03 mg/l
- Odor - 1 TON
- pH - 7.7
- Silver - 0.04 mg/l
- Sodium - 80 mg/l
- Sulfate - 210 mg/l
- TDS - 380 mg/l
- Turbidity - 2 NTU
- Zinc - 0.8 mg/l

Please let us know if we can provide any additional testing services.

Ray
APPENDIX D

LIQUID WASTE DISPOSAL STATEMENT

NEW MEXICO ENVIRONMENT DEPARTMENT

As of the date of preparation of this disclosure statement, the jurisdictional governmental agency responsible for reviewing and providing an opinion to this portion of the proposed subdivision has not provided Dona Ana County with that opinion. Should one be provided in the future and prior to subdivision recordation, it shall be attached herein.
LIQUID WASTE MANAGEMENT PLAN
ORCHARD ESTATES

The Orchard Estates is not in an area serviced by a public liquid waste system. Individual septic tank systems utilized on each lot will be the most economically feasible method to provide liquid waste disposal. The soil within the subdivision are considered as

<table>
<thead>
<tr>
<th>Soil Type &amp; Name</th>
<th>% Area Covered</th>
<th>Hydrologic Soil Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ar - Anthony Vinton Loam</td>
<td>4.7 %</td>
<td>B</td>
</tr>
<tr>
<td>Aw - Armijo Clay Loam</td>
<td>24.0 %</td>
<td>D</td>
</tr>
<tr>
<td>Gf - Glendale Clay Loam</td>
<td>26.2 %</td>
<td>B</td>
</tr>
<tr>
<td>Hg - Harkey Loam</td>
<td>45.1 %</td>
<td>B</td>
</tr>
</tbody>
</table>

The Soil Conservation Service classifies the soils in the project area as hydrological soil group "B". The pre-development condition of the land is that of a natural state, typically covered with native vegetation.

These soils are designated as "poor to moderate" with regard to sanitary facilities in the Doña Ana County Area Soil Survey. Soils that have characteristics of poor percolation rates shall have an alternative leach field design to include imported fill or mounded design approved by NMED and soils with moderate percolation rates will be adequate for leach fields. All disposal systems should be protected from storm drainage runoff.

There are no sewer lines servicing this area. Individual septic systems will be used and are the responsibility of the individual property owners.

The septic system must comply with the New Mexico Environment Department’s Liquid Waste (Septic Tank) Program, Liquid Waste Disposal and Treatment Regulations (NM liquid waste regulation 20.7.3) and requirements for proper installation of residential septic systems. Information can be obtained from the New Mexico Environmental Department’s website www.nmenv.state.nm.us. Individual lot owners must submit for the permit to construct this system. No other liquid waste disposal system may be used in this subdivision unless subsequently approved by the New Mexico Environment Department.

NOTE - NO LIQUID WASTE DISPOSAL SYSTEM MAY BE USED IN THIS SUBDIVISION OTHER THAN A SYSTEM APPROVED FOR USE IN THIS SUBDIVISION BY THE BOARD OF COUNTY COMMISSIONERS. PRIOR TO OCCUPANCY, ALL LOTS MUST HAVE EVIDENCE OF A FUNCTIONING LIQUID WASTE DISPOSAL SYSTEM INSTALLED BY A LICENSED CONTRACTOR OR PLUMBER IN ACCORDANCE WITH PERMITS ISSUED BY THE NEW MEXICO ENVIRONMENT DEPARTMENT, INSPECTED BY THE CONSTRUCTION INDUSTRIES DIVISION, AND VERIFIED BY THE OFFICE OF BUILDING INSPECTION.
APPENDIX E

SOLID WASTE DISPOSAL STATEMENT

NEW MEXICO ENVIRONMENT DEPARTMENT

As of the date of preparation of this disclosure statement, the jurisdictional governmental agency responsible for reviewing and providing an opinion to this portion of the proposed subdivision has not provided Dona Ana County with that opinion. Should one be provided in the future and prior to subdivision recordation, it shall be attached herein.
The Orchard Estates lot owners shall contract with private waste haulers who provide residential solid waste pick-up and disposal at competitive rates. Private waste haulers currently servicing Dona Ana County are:

- **Southwest Disposal Corporation**  
  Phone Number: 575-524-8482

- **Mesilla Valley Disposal**  
  Phone Number: 575-647-9094

- **Miles Hauling Service**  
  Phone Number: 575-524-8747

- **Silva Sanitation**  
  Phone Number: 575-233-2134
APPENDIX F

TERRAIN MANAGEMENT STATEMENT

NATURAL RESOURCE CONSERVATION DISTRICT’S

As of the date of preparation of this disclosure statement, the jurisdictional governmental agency responsible for reviewing and providing an opinion to this portion of the proposed subdivision has not provided Dona Ana County with that opinion. Should one be provided in the future and prior to subdivision recordation, it shall be attached herein.
April 13, 2012

Jonathan Kesler
Dona Ana County Planning
Re: #SD010-010-Orchard Estates Subdivision

Dear Mr. Kesler:

The Dona Ana Soil & Water Conservation District Board of Supervisors reviewed the aforementioned proposed subdivision plat. We have attached our Terrain Management Plan Review checklist for your information, along with pertinent soil data.

In general, the Terrain Management Plan (TMP) is quite thorough. It does state incorrect values for soil suitability. The Soil Survey of Dona Ana County and Web Soil Survey indicate that two (Aw & Gf) of the four soils have severe limitations/very limited values for septic tank absorption fields (50.2% of area) and limited and somewhat limited values for dwellings without basements. Page 1 of the Liquid Waste Management Plan states that these values are moderate and should be changed. The disclosure statement needs to indicate how to overcome the limitations indicated for these soils. These limitations in regard to septic tank absorption fields could be difficult to overcome without special design. The disclosure statement also needs to indicate additional basin ponding requirements if the drainage plan as submitted by the engineer to raise future building pads 18 inches is not followed. If the developer could include some examples of what the purchaser could do to address the soil limitations and perhaps related costs associated with the special design for building foundations and/or septic systems, the buyer would have a more clear understanding of what he would need to do.

Based on this request, the Board of Supervisors of the Dona Ana Soil and Water Conservation District recommends conditional approval of the TMP if the items mentioned above are disclosed for the #SD010-010/Orchard Estates Subdivision.

Sincerely,

Joe Delk
Chairman
Dona Ana Soil and Water Conservation District

Enclosure(s)
Dwellings and Small Commercial Buildings

Soil properties influence the development of building sites, including the selection of the site, the design of the structure, construction, performance after construction, and maintenance. This table shows the degree and kind of soil limitations that affect dwellings and small commercial buildings.

The ratings in the table are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect building site development. "Not limited" indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. "Somewhat limited" indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected. "Very limited" indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Numerical ratings in the table indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

"Dwellings" are single-family houses of three stories or less. For dwellings without basements, the foundation is assumed to consist of spread footings of reinforced concrete built on undisturbed soil at a depth of 2 feet or at the depth of maximum frost penetration, whichever is deeper. For dwellings with basements, the foundation is assumed to consist of spread footings of reinforced concrete built on undisturbed soil at a depth of about 7 feet. The ratings for dwellings are based on the soil properties that affect the capacity of the soil to support a load without movement and on the properties that affect excavation and construction costs. The properties that affect the load-supporting capacity include depth to a water table, ponding, flooding, subsidence, linear extensibility (shrink-swell potential), and compressibility. Compressibility is inferred from the Unified classification. The properties that affect the ease and amount of excavation include depth to a water table, ponding, flooding, slope, depth to bedrock or a cemented pan, hardness of bedrock or a cemented pan, and the amount and size of rock fragments.

"Small commercial buildings" are structures that are less than three stories high and do not have basements. The foundation is assumed to consist of spread footings of reinforced concrete built on undisturbed soil at a depth of 2 feet or at the depth of maximum frost penetration, whichever is deeper. The ratings are based on the soil properties that affect the capacity of the soil to support a load without movement and on the properties that affect excavation and construction costs. The properties that affect the load-supporting capacity include depth to a water table, ponding, flooding, subsidence, linear extensibility (shrink-swell potential), and compressibility (which is inferred from the Unified classification). The properties that affect the ease and amount of excavation include flooding, depth to a water table, ponding, slope, depth to bedrock or a cemented pan, hardness of bedrock or a cemented pan, and the amount and size of rock fragments.

Information in this table is intended for land use planning, for evaluating land use alternatives, and for planning site investigations prior to design and construction. The information, however, has limitations. For example, estimates and other data generally apply only to that part of the soil between the surface and a depth of 5 to 7 feet. Because of the map scale, small areas of different soils may be included within the mapped areas of a specific soil.

The information is not site specific and does not eliminate the need for onsite investigation of the soils or for testing and analysis by personnel experienced in the design and construction of engineering works.

Government ordinances and regulations that restrict certain land uses or impose specific design criteria were not considered in preparing the information in this table. Local ordinances and regulations should be considered in planning, in site selection, and in design.
Sewage Disposal

This table shows the degree and kind of soil limitations that affect septic tank absorption fields and sewage lagoons. The ratings are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by one or more of the soil features that affect these uses. "Not limited" indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. "Somewhat limited" indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected. "Very limited" indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil treatment, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Numerical ratings in the table indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

"Septic tank absorption fields" are areas in which effluent from a septic tank is distributed into the soil through subsurface tiles or perforated pipe. Only that part of the soil between depths of 24 and 72 inches or between a depth of 24 inches and a restrictive layer is evaluated. The ratings are based on the soil properties that affect absorption of the effluent, construction and maintenance of the system, and public health. Saturated hydraulic conductivity (Ksat), depth to a water table, ponding, depth to bedrock or a consolidated pan, and flooding affect absorption of the effluent. Stones and boulders, ice, and bedrock or a consolidated pan interfere with installation. Subsidence interferes with installation and maintenance. Excessive slope may cause lateral seepage and surfacing of the effluent in downslope areas.

Some soils are underlain by loose sand and gravel or fractured bedrock at a depth of less than 4 feet below the distribution lines. In these soils the absorption field may not adequately filter the effluent, particularly when the system is new. As a result, the ground water may become contaminated.

"Sewage lagoons" are shallow ponds constructed to hold sewage while aerobic bacteria decompose the solid and liquid wastes. Lagoons should have a nearly level floor surrounded by cut slopes or embankments of compacted soil. Nearly impervious soil material for the lagoon floor and sides is required to minimize seepage and contamination of ground water. Considered in the ratings are slope, saturated hydraulic conductivity (Ksat), depth to a water table, ponding, depth to bedrock or a consolidated pan, flooding, large stones, and content of organic matter.

Saturated hydraulic conductivity (Ksat) is a critical property affecting the suitability for sewage lagoons. Most porous soils eventually become sealed when they are used as sites for sewage lagoons. Until sealing occurs, however, the hazard of pollution is severe. Soils that have a Ksat rate of more than 14 micrometers per second are too porous for the proper functioning of sewage lagoons. In these soils, seepage of the effluent can result in contamination of the ground water. Ground-water contamination is also a hazard if fractured bedrock is within a depth of 40 inches, if the water table is high enough to raise the level of sewage in the lagoon, or if floodwater overtops the lagoon.

A high content of organic matter is detrimental to proper functioning of the lagoon because it inhibits aerobic activity. Slope, bedrock, and cemented pans can cause construction problems, and large stones can hinder compaction of the lagoon floor. If the lagoon is to be uniformly deep throughout, the slope must be gentle enough and the soil material must be thick enough over bedrock or a cemented pan to make land grading practical.

Information in this table is intended for land use planning, for evaluating land use alternatives, and for planning site investigations prior to design and construction. The information, however, has limitations. For example, estimates and other data generally apply only to that part of the soil between the surface and a depth of 2 to 7 feet. Because of the map scale, small areas of different soils may be included within the mapped areas of a specific soil.

The information is not site specific and does not eliminate the need for onsite investigation of the soils or for testing and analysis by personnel experienced in the design and construction of engineering works.

Government ordinances and regulations that restrict certain land uses or impose specific design criteria were not considered in preparing the information in this table. Local ordinances and regulations should be considered in planning, site selection, and design.
Dwellings and Small Commercial Buildings

Dona Ana County Area, New Mexico

Onsite investigation may be needed to validate the interpretations in this table and to confirm the identity of the soil on a given site. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the potential limitation. The table shows only the top five limitations for any given soil. The soil may have additional limitations.

<table>
<thead>
<tr>
<th>Map symbol and soil name</th>
<th>Pol of map unit</th>
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<th>Dwellings with basements</th>
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<td>Rating class and limiting features</td>
<td>Value</td>
<td>Rating class and limiting features</td>
</tr>
<tr>
<td>An:</td>
<td></td>
<td>Dwellings without basements</td>
<td>Dwellings with basements</td>
<td>Small commercial buildings</td>
</tr>
<tr>
<td>Anthony</td>
<td>50</td>
<td>Not limited</td>
<td>Not limited</td>
<td>Not limited</td>
</tr>
<tr>
<td>Vinton</td>
<td>30</td>
<td>Not limited</td>
<td>Not limited</td>
<td>Not limited</td>
</tr>
</tbody>
</table>
Sewage Disposal

Dona Ana County Area, New Mexico

[Onsite Investigation may be needed to validate the interpretations in this table and to confirm the identity of the soil on a given site. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the potential limitation. The table shows only the top five limitations for any given soil. The soil may have additional limitations]

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<tr>
<td></td>
<td>Rating class and limiting features</td>
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<td>Rating class and limiting features</td>
</tr>
<tr>
<td>Anthony</td>
<td>Not limited</td>
<td>Very limited Seepage</td>
<td>1.00</td>
</tr>
<tr>
<td>Vinton</td>
<td>Not limited</td>
<td>Very limited Seepage</td>
<td>1.00</td>
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### Dwellings and Small Commercial Buildings

Dona Ana County Area, New Mexico

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<td>Rating class and limiting features</td>
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<td>1.00</td>
<td>Shrink-swell</td>
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<tr>
<td>Armijo</td>
<td>85</td>
<td>Very limited</td>
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<td>Very limited</td>
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## Sewage Disposal

Dona Ana County Area, New Mexico

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<td>Rating class and limiting features</td>
<td>Value</td>
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<tr>
<td>Aw: Armijo</td>
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<td>Very limited</td>
<td>Slow water movement</td>
</tr>
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</table>

USDA Natural Resources Conservation Service

Tabular Data Version: 9
Tabular Data Version Date: 09/24/2009
Dwellings and Small Commercial Buildings
Dona Ana County Area, New Mexico

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<table>
<thead>
<tr>
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<th>Pct. of map unit</th>
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Sewage Disposal
Dona Ana County Area, New Mexico

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<tr>
<td></td>
<td></td>
<td>Slow water movement</td>
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</table>

This report shows only the major soils in each map unit. Others may exist.
Dwellings and Small Commercial Buildings

Dona Ana County Area, New Mexico

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<td>Value</td>
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<tr>
<td>Hg: Harkey</td>
<td>85</td>
<td>Not limited</td>
<td>Somewhat limited</td>
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Sewage Disposal
Dona Ana County Area, New Mexico

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</tr>
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</table>
ORCHARD ESTATES
BERINO, NEW MEXICO
TERRAIN MANAGEMENT PLAN

PREPARED FOR

Mr. Eugene Burkeholder
900 West Joy Drive
Anthony, NM 88021

PREPARED BY

Southwest Engineering, Inc.
475 Archuleta Road
Las Cruces, New Mexico 88005

May 23, 2013
Hydrologic soil classification was determined from soil survey information available 
from the local Natural Resources Conservation Services field office. Soil Survey of 
Doña Ana County Area published by the U.S. Department of Agriculture and the 
Natural Resources Conservation Service was used for this drainage study.

<table>
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<th>Soil Type &amp; Name</th>
<th>% Area Covered</th>
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<tr>
<td>Ar - Anthony Vinton Loam</td>
<td>4.7 %</td>
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</tr>
<tr>
<td>Aw - Armijo Clay Loam</td>
<td>9.6 %</td>
<td>D</td>
</tr>
<tr>
<td>Gf - Glendale Clay Loam</td>
<td>26.2 %</td>
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</tr>
<tr>
<td>Hg - Harkey Loam</td>
<td>45.1 %</td>
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</table>

The Natural Resources Conservation Service classifies the soils in the project area as 
hydrological soil group “B & D”. The pre-development condition of the land is that 
of a natural state, typically covered with native vegetation.

The 40.09 +/- acre tract in the Berino, New Mexico area constitutes in part, the east 
mesa, which extends west from the Franklin Mountain Range area to the edge of the 
Rio Grande floor. The drainage pattern is comparatively stable and is directed west 
towards the Rio Grande.

The subject property found to be within “Zone X” – Areas of 500-year flood; areas of 
100-year flood with average depths of less than 1 foot or with drainage areas less than 
1 square mile and can be further identified on FIRM No. 35013C1525G, dated July 
06, 2016. Please be aware that the subject property is still susceptible to localized 
flooding despite not being identified within a FEMA Special Flood Hazard Area.

No lots are located on slopes exceeding 8 %. The geographical location of this 
development provides for very low peak runoff rates. It is recommended that any 
future building pads be constructed with a minimum finished pad elevation of 12 
inches above the existing grade to be shown on the construction drawings. The fill 
material should be compacted to 95 percent of ASTM D1557 and extended 5 feet 
beyond the perimeter of the home, then extended to natural ground at a slope not to 
exceed 3.2:1.

The total stormwater generated by the development of Orchard Estates Subdivision 
shall be contained within the agricultural preservation and ponding easement as 
identified on the subdivision plat. The proposed ponding areas shall contain the entire 
100-year storm event. Individual on-lot ponds are only required if the approved 
grading and drainage plan is not strictly adhered to. Should the individual homeowner 
choose not to comply with the grading and drainage plan as submitted and approved 
for this subdivision, then a licensed engineer shall create a ponding area such that the 
entire 100-year storm shall be contained. It is most important to note that no
additional storm water is proposed to exit the property.
April 04, 2013

Eugene Burkeholder
817 West Aldaz Drive
Anthony, NM 88021

Re: Final Drainage Report
Orchard Estates Phase I to V
SEI-30121

Dear Mr. Burkeholder:

Enclosed is the recently completed final drainage report for the above referenced development. The report calculates the pre-development and post-development 10-year and 100-year, 24-hour stormwater runoff volumes and describes the stormwater drainage plan.

If, after reviewing the report, you have any questions or comments, please do not hesitate to contact our office.

Sincerely,

SOUTHWEST ENGINEERING, INC.

Enclosure: Final Drainage Report
This document was prepared under the supervision and direction of the undersigned whose seal as a Professional Engineer, licensed to practice as such in the State of New Mexico, is affixed below.

Paul J. Pompeo, P.E.
N.M.P.E. Number 11490
Date 04/04/2013
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### APPENDIX A

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<td>Project Location Map</td>
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<tr>
<td>Subdivision Plat</td>
<td>A2-A12</td>
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<tr>
<td>Topographic Site Map</td>
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<td>Firm 100-Year Flood Map</td>
<td>A14-A15</td>
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<tr>
<td>Soil Survey Map</td>
<td>A16-A17</td>
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<td>Drainage Basin Maps</td>
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### APPENDIX B

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<td>2, 10 &amp; 100 Year 24-Hour NOAA Precipitation Table</td>
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<td>Runoff Curve Number Tables</td>
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### APPENDIX C

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<td>10 Year Pre-Development Basin Discharge Hydrographs</td>
<td>C4-C10</td>
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<td>100 Year Pre-Development Basin Discharge Hydrographs</td>
<td>C11-C15</td>
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</tr>
<tr>
<td>10 Year Post-Development Basin Discharge Hydrographs</td>
<td>C20-C38</td>
</tr>
<tr>
<td>100 Year Post-Development Basin Discharge Hydrographs</td>
<td>C39-C49</td>
</tr>
</tbody>
</table>
1.0 INTRODUCTION & PURPOSE

This drainage investigation was performed for the proposed development of the Orchard Estates, a 40.09 +/- acre tract to be subdivided into 23 single-family residential lots ranging from 0.82 to 5.30 +/- acre. This report will address the drainage characteristics for the overall development of the subdivision. This drainage study will analyze the increased runoff being produced by the new roadways and residential lots and analyze the interior flow contained within the development. It is the intent of the developer to fully contain the difference between the pre- and post-development 100-year stormwater discharges. The location of this development is shown on the project location map in Appendix A. This drainage report outlines the final drainage requirements for the overall development.

2.0 METHODOLOGY

This drainage report is prepared using the methodology outlined in the Engineering Field Manual for Conservation Practices, Chapter 2 titled “Peak Rates of Discharge for Small Watersheds” published in 1985 by the Natural Resources Conservation Service Department of the United States Department of Agricultural.

3.0 SCOPE OF INVESTIGATION

The objectives of this investigation were:

- To determine the probable external and internal drainage area responsible for runoff in the development.

- To determine rainfall and runoff for the development for 10-year and 100-year frequency storms.

- To determine drainage characteristics of new development area prior to and following the development for transporting and storing runoff caused by the 10-year and 100-year frequency storms.
4.0 METHODOLOGICAL & GEOLOGICAL PARAMETERS

4.1 CLIMATE

The climate of the area around Las Cruces, New Mexico is mild, arid or semi-arid continental type, which is characterized by fairly hot summers and mild winters with warm spring and fall seasons. The air is normally clear and dry with considerable annual and diurnal fluctuations in temperature. Most of the rainfall occurs in the form of summer thunderstorms. These storms are of short duration and result from convective and/or orographic lifting of air masses. The more intense of these storms follow a period of inflow of warm airs originating in the Gulf of Mexico. Occasional precipitation occurs as a result of an invasion of tropical pacific air. Frontal activity is most prevalent in the area and is accompanied by rain or snow of light intensity.

4.2 RAINFALL

The average annual rainfall around the Mesilla Valley is on the order of 8" - 10" according to environmental data services record of the National Oceanic and Atmospheric Administration (N.O.A.A.). More than half of the total rainfall occurs during the summer months. The most severe storms usually occur during the period of July through September. The NOAA Rainfall Summary found in Appendix B and generated for this specific site show the 2-year, 10-year and 100-year, 24-hour rainfall intervals for this area of the Mesilla Valley area. The 2-year, 24-hour precipitation for the Mesilla Valley is 1.51 inches. The 10-year, 24-hour precipitation for the Mesilla Valley is 2.35 inches. The 100-year, 24-hour precipitation for the Mesilla Valley is 3.69 inches.

These values, \( P_2 = 1.51" \), \( P_{10} = 2.35" \) and \( P_{100} = 3.69" \) of rainfall are used in this drainage study. To utilize the intensity as a principal factor of peak flows on a small watershed, the Natural Resources Conservation Service (NRCS) has related the percent of daily rainfall having a 1 percent chance of occurrence is 75 percent as derived from NRCS studies for the Mesilla Valley area.

4.3 GEOLOGY & SOIL PARAMETERS

4.3.1 GEOLOGY AND ORIGIN OF SOIL

The geologic information indicates unconsolidated and partially consolidated sediment of tertiary and later ages underlaying this area near Las Cruces, New Mexico. The deposit consists of varying proportions of sand, gravel and silt that fill the deep trough of the Rio Grande depression. This formation is commonly known as the "Santa Fe" formation. The Santa Fe formation varies abruptly in lateral and vertical direction from coarse conglomerates and gravel to sand mixed with silt and clay lenses. The gravel and sand strata are usually tan to gray in color, containing large amounts of interstitial silt.
4.3.2 HYDROLOGIC SOIL CLASSIFICATION

Hydrologic soil classification was determined from soil survey information available from the local Natural Resources Conservation Services field office. Soil Survey of Doña Ana County Area published by the U.S. Department of Agriculture and the Natural Resources Conservation Service was used for this drainage study.

The soil survey map shows that the following soils types are found within the project area and within the drainage basins leading into the project area:

<table>
<thead>
<tr>
<th>Soil Types</th>
<th>Soil Type Name</th>
<th>Hydrologic Soils Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ar</td>
<td>Anthony Vinton Loam</td>
<td>B</td>
</tr>
<tr>
<td>Aw</td>
<td>Armijo Clay Loam</td>
<td>D</td>
</tr>
<tr>
<td>Gf</td>
<td>Glendale Clay Loam</td>
<td>B</td>
</tr>
<tr>
<td>Hg</td>
<td>Harkey Loam</td>
<td>B</td>
</tr>
</tbody>
</table>

The soils types and corresponding hydrologic soil classifications breakdown within individual basins as follows:

<table>
<thead>
<tr>
<th>Soil Type Summary – Pre Development</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basin</td>
</tr>
<tr>
<td>A1</td>
</tr>
<tr>
<td>A2</td>
</tr>
</tbody>
</table>
### 4.3.2 HYDROLOGIC SOIL CLASSIFICATION (CONTINUED)

<table>
<thead>
<tr>
<th>Basin</th>
<th>“Ar” % Soil Type HSC “B”</th>
<th>“Aw” % Soil Type HSC “D”</th>
<th>“Gf” % Soil Type HSC “B”</th>
<th>“Hg” % Soil Type HSC “B”</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>95%</td>
<td>0.0%</td>
<td>0.0%</td>
<td>5%</td>
</tr>
<tr>
<td>A2</td>
<td>31%</td>
<td>0.0%</td>
<td>0.0%</td>
<td>69%</td>
</tr>
<tr>
<td>A3</td>
<td>3%</td>
<td>0.0%</td>
<td>12%</td>
<td>85%</td>
</tr>
<tr>
<td>B1</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.0%</td>
<td>100%</td>
</tr>
<tr>
<td>B2</td>
<td>0.0%</td>
<td>0.0%</td>
<td>79%</td>
<td>21%</td>
</tr>
<tr>
<td>B3</td>
<td>0.0%</td>
<td>0.0%</td>
<td>18%</td>
<td>82%</td>
</tr>
<tr>
<td>B4</td>
<td>0.0%</td>
<td>0.0%</td>
<td>85%</td>
<td>15%</td>
</tr>
<tr>
<td>C</td>
<td>0.0%</td>
<td>35%</td>
<td>37%</td>
<td>28%</td>
</tr>
</tbody>
</table>
### Curve Number - Soil Type Summary

<table>
<thead>
<tr>
<th>Land Use Area</th>
<th>Hydrologic Soils Class A</th>
<th>Hydrologic Soils Class B</th>
<th>Hydrologic Soils Class C</th>
<th>Hydrologic Soils Class D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural Cover / Ag</td>
<td>67</td>
<td>78</td>
<td>85</td>
<td>89</td>
</tr>
<tr>
<td>Impervious</td>
<td>98</td>
<td>98</td>
<td>98</td>
<td>98</td>
</tr>
<tr>
<td>Natural Cover - Cleared</td>
<td>77</td>
<td>86</td>
<td>91</td>
<td>94</td>
</tr>
<tr>
<td>Lawn Landscape Areas</td>
<td>39</td>
<td>61</td>
<td>74</td>
<td>80</td>
</tr>
<tr>
<td>Desert Landscape Areas</td>
<td>63</td>
<td>77</td>
<td>85</td>
<td>88</td>
</tr>
</tbody>
</table>
4.3.4 SOIL DESCRIPTIONS

From the soils identified in Section 4.3.2, the follow descriptions outline the parameters of each:

**Anthony-Vinton loams (Ar):** These soils are nearly level and are on the flood plain of the Rio Grande at an elevation of 3,700 to 4,120 feet. The Anthony soils are in hydraulic soil group B, and are deep and well drained. Typically, the surface layer is brown fine sandy loam about 18 inches thick. The underlying material, to a depth of 38 inches, is pale brown fine sandy loam. Below that, to a depth of 60 inches or more, is pale brown loamy very fine sand. Permeability of the Anthony soils is moderately rapid. The available water capacity is moderate. Surface runoff is medium. The Vinton soils are in hydraulic soil group B, and are deep and well drained. Typically, the surface layer is brown fine sandy loam about 13 inches thick. The underlying material, to a depth of 38 inches, is pale brown fine sandy loam. Below that, to a depth of 41 inches, is pale brown loamy very fine sand. Below that, to a depth of 60 inches, is pale brown fine sandy loam, and very pale brown, very fine sandy loam. Permeability of the Vinton soils is moderately rapid. The depth of the root zone is 60 inches or more, and the available water capacity is moderate. Surface runoff is slow, and the water erosion hazard is slight. The soil-blowing hazard is high.

**Armijo clay loam (Aw):** This soil is a deep, well-drained, nearly level soil that formed in alluvium on the flood plain of the Rio Grande. Elevation ranges from 3,700 to 4,120 feet. Typically, the surface layer is light brownish gray clay about 12 inches thick. The underlying material is pinkish gray clay to a depth of 60 inches. Permeability is moderately slow. The depth of the root zone is 60 inches or more, but the shrinking and swelling of the soil prunes and flattens roots. The available water capacity is high, and the surface runoff is very slow. The water erosion hazard is slight and the soil-blowing hazard is moderate.

**Glendale clay loam (Gf):** This soil is a deep, well-drained, nearly level soil that formed in mixed alluvium on the flood plain of the Rio Grande. Elevation ranges from 3,700 to 4,120 feet. Typically, the surface layer is pale brown clay loam about 12 inches thick. The underlying material, to a depth of 40 inches, is light yellowish brown and pale brown clay loam. Below that, to a depth of 60 inches, it is pale brown very fine sandy loam. Permeability is moderately slow. The depth of the root zone is 60 inches or more, but plant growth is severely limited by the high salinity and alkalinity. The available water capacity is high. Surface runoff is slow, and the water erosion hazard is slight. The soil-blowing hazard is high.

**Harkey loam (Hg):** This soil is a deep, well-drained, nearly level soil that formed in alluvium on the flood plain of the Rio Grande. Elevation ranges from 3,700 to 4,100 feet. Typically, the surface layer is brown loam about 18 inches thick. The underlying material, to a depth of about 38 inches, is pale brown very fine sandy loam. Below that, to a depth of 60 inches, it is brown silt loam. Permeability is moderate, and the depth of the root zone is 60 inches or more. The available water capacity is high, and the surface runoff is slow. The soil-blowing hazard is high and the water erosion hazard is slight.
5.0 BASIN DESCRIPTIONS

5.1 GENERAL DRAINAGE CHARACTERISTICS
The 40.09 +/- acre tracts in the Berino, New Mexico area constitutes the Rio Grande Valley floor. The drainage pattern is comparatively stable and is directed toward the Rio Grande River. The F.E.M.A. flood insurance map (Appendix A) for the project area indicates that the site is within Zone X areas of 500-year flood; areas of 100-year flood with average depths of less than 1 foot or within drainage areas less than 1 square mile.

5.2 LAND USE
The pre-development condition of the property is that of agricultural cropland and one residence. The post-development condition of the properties will be a new residential subdivision, to include but not limited to graded areas, paved areas, and utility easements. The development will consist of 23 lots on 40.09 +/- acres. Each new lot is anticipated to have 6,400 sf of new impervious area including home and driveway, and 2000 sf of landscape in the front and side yard areas with the reminder of the rear yard remaining in its current state. There is no exterior stormwater flows from outside the development. Maintaining the agricultural area is the responsibility of the developer until a homeowner association is established. These responsibilities shall include tree care, land care, irrigation, and crop harvest.

A summary of the pre-developed drainage basin land uses are as follows:

<table>
<thead>
<tr>
<th>Pre-development Composite Curve Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basin</td>
</tr>
<tr>
<td>-------</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>A1</td>
</tr>
<tr>
<td>A2</td>
</tr>
</tbody>
</table>
## 5.2 LAND USE (CONTINUED)

### Post-development Composite Curve Numbers

<table>
<thead>
<tr>
<th>Basin</th>
<th>Natural Cover Farm Land (acres)</th>
<th>Cleared Cover (acres)</th>
<th>Impervious (acres)</th>
<th>Lawn Cover (acres)</th>
<th>Total Area (acres)</th>
<th>Composite CN</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>1.22</td>
<td>0.13</td>
<td>0.56</td>
<td>0.10</td>
<td>2.01</td>
<td>83</td>
</tr>
<tr>
<td>A2</td>
<td>1.00</td>
<td>0.13</td>
<td>0.57</td>
<td>0.10</td>
<td>1.80</td>
<td>81</td>
</tr>
<tr>
<td>A3</td>
<td>3.31</td>
<td>0.07</td>
<td>1.28</td>
<td>0.18</td>
<td>4.84</td>
<td>83</td>
</tr>
<tr>
<td>B1</td>
<td>1.52</td>
<td>0.16</td>
<td>0.79</td>
<td>0.14</td>
<td>2.61</td>
<td>84</td>
</tr>
<tr>
<td>B2</td>
<td>1.10</td>
<td>0.14</td>
<td>0.60</td>
<td>0.10</td>
<td>1.94</td>
<td>84</td>
</tr>
<tr>
<td>B3</td>
<td>0.97</td>
<td>0.05</td>
<td>0.58</td>
<td>0.01</td>
<td>1.70</td>
<td>84</td>
</tr>
<tr>
<td>B4</td>
<td>0.54</td>
<td>0.03</td>
<td>0.35</td>
<td>0.05</td>
<td>0.96</td>
<td>85</td>
</tr>
<tr>
<td>C</td>
<td>20.89</td>
<td>0.24</td>
<td>2.81</td>
<td>0.28</td>
<td>24.22</td>
<td>83</td>
</tr>
</tbody>
</table>
6.0 HYDROLOGY

6.1 STORMWATER DISCHARGE CALCULATIONS

Pre- and post-development weighted curve numbers and calculations for pre- and post-development stormwater discharge quantities are in Appendix C. The data are calculations for the stormwater discharge from the new residential subdivision. This data will be used to size the house pad and roadway elevation. The calculations were computed using the Hydroflow Hydrographs Extension for AutoCAD Civil 3D 2009 software package, Version 6.066. Developed by Autodesk.

The input values for the hydrograph calculations in Appendix C were determined with the following input data:

- The 2, 10 and 100-year, 24-hour precipitation was determined from the NOAA web site. A chart outlining the anticipated precipitation for this specific location can be found in Appendix B.

- The normal annual precipitation and average annual temperature were determined by contacting the local NRCS office in Las Cruces, NM.

- Time of concentration (Tc) values were determined from the TR-55 Method. Summary sheets of these calculations are found with the corresponding hydrographs in Appendix C.

- Where the hydrograph computer program calculates a time of concentration less than 10 minutes, "User" Tc Method is selected and a manual entry of 10 minutes is made to conform to the Dona Ana County Design Standards.

- The unit peak discharge hydrographs are shown in Appendix C of this report.
### 6.2 PRE-DEVELOPMENT STORMWATER CALCULATIONS

#### Pre-development Condition - 10 Year Event

<table>
<thead>
<tr>
<th>Basin</th>
<th>Area (acres)</th>
<th>Tc* (min)</th>
<th>Hydraulic Basin Length (ft)</th>
<th>Weighted CN</th>
<th>Volume (cf)</th>
<th>Peak Discharge (cfs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>15.86</td>
<td>48.60</td>
<td>1052.00</td>
<td>78</td>
<td>39,645</td>
<td>10.38</td>
</tr>
<tr>
<td>A2</td>
<td>24.22</td>
<td>74.90</td>
<td>1622.00</td>
<td>82</td>
<td>78,143</td>
<td>14.52</td>
</tr>
</tbody>
</table>

#### Pre-development Condition - 100 Year Event

<table>
<thead>
<tr>
<th>Basin</th>
<th>Area (acres)</th>
<th>Tc* (min)</th>
<th>Hydraulic Basin Length (ft)</th>
<th>Weighted CN</th>
<th>Volume (cf)</th>
<th>Peak Discharge (cfs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>15.86</td>
<td>48.60</td>
<td>1052.00</td>
<td>78</td>
<td>94,095</td>
<td>26.36</td>
</tr>
<tr>
<td>A2</td>
<td>24.22</td>
<td>74.90</td>
<td>1622.00</td>
<td>82</td>
<td>170,617</td>
<td>33.30</td>
</tr>
</tbody>
</table>

*A - A minimum Tc of 10 min shall be used for calculations per Design Standards*

### 6.3 POST-DEVELOPMENT STORMWATER CALCULATIONS

#### Post-development Condition - 10 Year Event

<table>
<thead>
<tr>
<th>Basin</th>
<th>Area (acres)</th>
<th>Tc* (min)</th>
<th>Hydraulic Basin Length (ft)</th>
<th>Weighted CN</th>
<th>Volume (cf)</th>
<th>Peak Discharge (cfs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>2.01</td>
<td>51.60</td>
<td>299.10</td>
<td>83</td>
<td>6,915</td>
<td>1.80</td>
</tr>
<tr>
<td>A2</td>
<td>1.80</td>
<td>52.20</td>
<td>303.00</td>
<td>81</td>
<td>5,487</td>
<td>1.39</td>
</tr>
<tr>
<td>A3</td>
<td>4.84</td>
<td>75.40</td>
<td>313.00</td>
<td>83</td>
<td>16,584</td>
<td>3.11</td>
</tr>
<tr>
<td>B1</td>
<td>2.61</td>
<td>52.50</td>
<td>305.10</td>
<td>84</td>
<td>9,518</td>
<td>2.48</td>
</tr>
<tr>
<td>B2</td>
<td>1.94</td>
<td>52.60</td>
<td>305.60</td>
<td>84</td>
<td>7,019</td>
<td>1.80</td>
</tr>
<tr>
<td>B3</td>
<td>1.70</td>
<td>64.40</td>
<td>189.00</td>
<td>84</td>
<td>6,154</td>
<td>1.36</td>
</tr>
<tr>
<td>B4</td>
<td>0.97</td>
<td>53.50</td>
<td>312.00</td>
<td>85</td>
<td>3,713</td>
<td>0.96</td>
</tr>
<tr>
<td>C</td>
<td>24.22</td>
<td>34.40</td>
<td>768.00</td>
<td>83</td>
<td>82,990</td>
<td>29.92</td>
</tr>
</tbody>
</table>
6.3 POST-DEVELOPMENT STORMWATER CALCULATIONS (CONTINUED)

<table>
<thead>
<tr>
<th>Basin</th>
<th>Area (acres)</th>
<th>Tc* (min)</th>
<th>Hydraulic Basin Length (ft)</th>
<th>Weighted CN</th>
<th>Volume (cf)</th>
<th>Peak Discharge (cfs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>2.01</td>
<td>51.60</td>
<td>299.10</td>
<td>83</td>
<td>14,794</td>
<td>4.01</td>
</tr>
<tr>
<td>A2</td>
<td>1.80</td>
<td>52.20</td>
<td>303.00</td>
<td>81</td>
<td>12,226</td>
<td>3.27</td>
</tr>
<tr>
<td>A3</td>
<td>4.84</td>
<td>75.40</td>
<td>313.00</td>
<td>83</td>
<td>35,480</td>
<td>6.97</td>
</tr>
<tr>
<td>B1</td>
<td>2.61</td>
<td>52.50</td>
<td>305.10</td>
<td>84</td>
<td>19,978</td>
<td>5.44</td>
</tr>
<tr>
<td>B2</td>
<td>1.94</td>
<td>52.60</td>
<td>305.60</td>
<td>84</td>
<td>14,732</td>
<td>3.93</td>
</tr>
<tr>
<td>B3</td>
<td>1.70</td>
<td>64.40</td>
<td>189.00</td>
<td>84</td>
<td>12,917</td>
<td>2.97</td>
</tr>
<tr>
<td>B4</td>
<td>0.97</td>
<td>53.50</td>
<td>312.00</td>
<td>85</td>
<td>7,656</td>
<td>2.05</td>
</tr>
<tr>
<td>C</td>
<td>24.22</td>
<td>34.40</td>
<td>768.00</td>
<td>83</td>
<td>177,547</td>
<td>66.94</td>
</tr>
</tbody>
</table>

* - A minimum Tc of 10 min shall be used for calculations per Design Standards

6.4 BASIN PONDING REQUIREMENTS

The subject property shall pond additional stormwater over the idle agricultural areas maintained after lot development. No defined ponding areas shall be excavated. House pads will be elevated sufficiently to be safety above the stormwater inundation area. In Appendix C the Hydrographs show the amount of stormwater within the subdivision.

Should the individual homeowner choose not to comply with the grading and drainage plan as submitted and approved for this subdivision, then a licensed engineer shall create a ponding area such that the entire 100-year storm shall be contained.

The total stormwater generated within the Orchard Estates Subdivision shall be collected and stored in the ponding portion of each lot, which the house pad and drive do not occupy. The ponding areas will be preserved in its current agricultural condition (pecan orchard) until the individual lot owner prepares to construct the housepad and drive. A permanent wall will be constructed in order to separate lots, but the drainage between the lot and the agricultural preservation area must be maintained as shown on the approved construction drawings. The typical pad elevations shall be a minimum of 12 inches and roadway shall be a minimum of 8 inches above the existing grade to be shown on the construction drawings.

A summary of the ponding requirements per drainage basin are as follows:
### 6.4 Basin Ponding Requirements (Continued)

<table>
<thead>
<tr>
<th>Basin</th>
<th>Volume (cf)</th>
<th>Ponding Open Space (sf)</th>
<th>100-Year Event Water Depth (in)</th>
<th>Irrigation Water Depth (in)</th>
<th>Total Water Depth (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>14,794</td>
<td>56,609</td>
<td>3-1/2”</td>
<td>4”</td>
<td>7-1/2”</td>
</tr>
<tr>
<td>A2</td>
<td>12,226</td>
<td>49,997</td>
<td>3”</td>
<td>4”</td>
<td>7”</td>
</tr>
<tr>
<td>A3</td>
<td>35,480</td>
<td>147,626</td>
<td>3”</td>
<td>4”</td>
<td>7”</td>
</tr>
<tr>
<td>B1</td>
<td>19,978</td>
<td>74,398</td>
<td>3-1/2”</td>
<td>4”</td>
<td>7-1/2”</td>
</tr>
<tr>
<td>B2</td>
<td>14,732</td>
<td>52,912</td>
<td>3-1/2”</td>
<td>4”</td>
<td>7-1/2”</td>
</tr>
<tr>
<td>B3</td>
<td>12,917</td>
<td>47,132</td>
<td>3-1/2”</td>
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<td>6-1/2”</td>
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7.0 HYDRAULICS

7.1 HISTORICAL FLOW
The historic use of this property is a flat farm field. It is the intent of the proposed easements to guarantee that the entire one hundred year storm will fit within the widths of the easements as shown.

7.2 IRRIGATION INUNDATION
An analysis was performed to determine if water from uncontrolled irrigation ditches could inundate the proposed house pad. Lowest perimeter berm is 9” above grade. House pads are 12” above existing grade. No house pads will be flooded due to inundation from irrigation source.

7.3 NATURAL CHANNELS
Neither concentrated nor sheet flows cross through this development.

7.4 STREETS
The roadways within this develop shall consist of 24 feet wide and 2” H.M.A.C streets surface on 6” Base Course. Standard street crowned cross-section shall be utilized to drain the roadways into lots. The road surface will not be inundated with storm runoff during the 100-year storm.

8.0 CONCLUSIONS AND RECOMMENDATIONS

8.1 LOT DEVELOPMENT
The geographical location of this development provides for moderate peak runoff rates. It is recommended house pads be constructed with a minimum finished pad elevation of 12 inches above the existing grade as shown on the development grading and construction drawing. A permanent wall may be constructed in order to separate lots, but the drainage path between the road, house pad, and the agricultural preservation area must be maintained as shown on the approved construction drawings. The remainder of each lot will be preserved as a pecan orchard and be used to hold all the stormwater runoff.

8.2 STORMWATER CONTROL
All excess stormwater drainage produced by the development will be contained within the agricultural preservation and ponding easement of the subdivision. The proposed ponding areas shall contain the entire 100-year storm event. Individual on-lot ponds are only required if the approved grading and drainage plan is not strictly adhered to. Should the individual homeowner choose not to comply with the grading and drainage plan as submitted and approved for this subdivision, then a licensed engineer shall create a ponding area such that the entire 100-year storm shall be contained. It is most important to note that no additional storm water is proposed to exit the property.
APPENDIX A

PROJECT LOCATION MAP
SUBDIVISION PLAT
TOPOGRAPHIC SITE MAP
FIRM 100-YEAR FLOOD MAP
SOIL SURVEY MAP
DRAINAGE BASIN MAPS
ORCHARD ESTATES, PHASE I
SITUATED IN PROPOSED SECTION 19, TOWNSHIP 1, RANGE 9, EAST ALDADZ RANGES, SATURDAY, DONA ANA COUNTY, NEW MEXICO. ANTHONY, NM 88021

NOTES:
1. Survey by C.L. C. May 2013
2. Survey marked by individual lot owners and may require triangular sighting.
3. All surveys performed by individual lot owners and may require additional sighting.
4. Flood area of the proposed development shall be developed by means of a flood control system designed by a certified landscape architect or civil engineer.
5. The flood control system shall be designed to minimize erosion and protect adjacent properties from floodwaters.
6. The flood control system shall be maintained by the individual lot owner.
7. The flood control system shall be maintained by the individual lot owner.
8. The flood control system shall be maintained by the individual lot owner.
9. The flood control system shall be maintained by the individual lot owner.
10. The flood control system shall be maintained by the individual lot owner.

FINAL PLAT

SOUTHWEST ENGINEERING, INC.
478 ARCHULETA ROAD, LOS CRUSAS, NEW MEXICO 88055

SUBMITTED BY: EUGENE BURKEHOLDER
617 WEST ALDADZ DRIVE
ANTHONY, NM 88021

DATE OF SURVEY: 23 MAY 2013
DRAWING NUMBER: 30121
ORCHARD ESTATES, PHASE II

BEING PART OF U.S.R.S. TRACT 25-69, SITUATED IN PROJECTED SECTIONS 15, TOWNSHIP 26 SOUTH, RANGE 3 EAST N.M.P.M. OF THE U.S.R.S. SURVEYS SOUTH OF THE CITY OF LAS CRUCES, DONA ANA COUNTY, NEW MEXICO.

A DONA ANA COUNTY SUBDIVISION

FINAL PLAT

2 67 ACRES ±

MAY 2013

DEDICATION

BEING A 2.67 ACRE TRACT OF LAND MORE OR LESS, PART OF U.S.R.S. TRACT 25-69, IN PROJECTED SECTION 15, TOWNSHIP 26 SOUTH, RANGE 3 EAST N.M.P.M. OF THE U.S.R.S. SURVEYS SOUTH OF THE CITY OF LAS CRUCES, DONA ANA COUNTY, NEW MEXICO, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHWEST CORNER OF THE TRACT HEREIN DESCRIBED FROM WHENCE THE NORTHWEST CORNER OF U.S.R.S. TRACT 25-69 BEARS THE FOLLOWING THREE COURSES AND DISTANCES, NORTH 13° 10' 31" WEST A DISTANCE OF 179.71 FEET, THEN SOUTH 9° 45' 33" WEST A DISTANCE OF 105.99 FEET, THEN SOUTH 88° 51' 00" WEST A DISTANCE OF 381.87 FEET, AS APPEARS ON THIS PLAT TO WHICH THIS DEDICATION IS ATTACHED AND MADE A PART HEREOF AND THE PLAT HAS BEEN SUBMITTED TO AND CHECKED BY DONA ANA COUNTY, NEW MEXICO, AS BY STATUTE PROVIDED AND IS IN ACCORDANCE WITH THE DESIRES OF THE UNDERSIGNED OWNERS.


EASEMENTS SHOWN HEREIN, COPIES OF WHICH HAVE BEEN PRESENTED TO THE COUNTY BOARD OF COUNTY COMMISSIONERS AND THE COUNTY CLERK, ARE SATISFACTORY TO MEET THE REQUIREMENTS OF THE COUNTY BOARD OF COUNTY COMMISSIONERS AND THE COUNTY CLERK. THE COUNTY BOARD OF COUNTY COMMISSIONERS APPROVES THE INSTALLATION OF UNDERGROUND AND/OR OVERHEAD TELEPHONE UTILITIES ON THIS PLAT.

EASEMENTS SHOWN HEREIN, COPIES OF WHICH HAVE BEEN PRESENTED TO THE COUNTY BOARD OF COUNTY COMMISSIONERS AND THE COUNTY CLERK, ARE SATISFACTORY TO MEET THE REQUIREMENTS OF THE COUNTY BOARD OF COUNTY COMMISSIONERS AND THE COUNTY CLERK. THE COUNTY BOARD OF COUNTY COMMISSIONERS APPROVES THE INSTALLATION OF UNDERGROUND AND/OR OVERHEAD TELEPHONE UTILITIES ON THIS PLAT.

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ORCHARD ESTATES, PHASE II

LEGAL DESCRIPTION:

LOT ACRDED TO INDIVIDUAL LOT OWNERS AND MAY REQUIRE SPECIAL PERMITS.

A. ORCHARD ESTATES, PHASE II

ORCHARD ESTATES, PHASE II

SUBDIVISION FINAL PLAT

NOTES:

WATER BY ON LOT WELL

GAS BY ON LOT LP

SEPTIC SYSTEM BY INDIVIDUAL ON LOT OWNERS AND MAY REQUIRE SPECIAL DESIGN.

SUBJECT PROPERTY FOUND TO BE WITHIN FLOOD ZONE "SHADED X*" AREAS OF 500-YEAR FLOOD; AREAS OF 100-YEAR FLOOD WITH AVERAGE OF U.S. $3,000 PER SQUARE MILE; AREA PROTECTED BY LEVEES FROM 50-FEET FLoods. THIS IS A SPECIAL FLOOD HAZARD AREA IDENTIFIED ON FLOOD INSURANCE PURCHASE MAPS (RIP) WITH EFFECTIVE SEPTEMBER 27, 1991.

ZONING IS PR-1

POND AREA

MAINTAINED BY INDIVIDUAL LOT OWNERS. INTERNAL POND WA

DRAINAGE WILL BE CONTAINED IN UNDEVELOPED PAD OF EACH LOT. SEE POND AREA REFERENCE THE APPROVED CONSTRUCTION PLANS.

ALL LOTS WITHIN THIS SUBDIVISION WILL HAVE ELEVATED FLOOD PROTECTION. IF IN THE FUTURE A COMMUNITY WATER SYSTEM IS INSTALLED TO ENHANCE THE AVAILABILITY OF WATER FOR FIRE PROTECTION, THE DONA ANA COUNTY FIRE DEPARTMENT MAY MODIFY OR REMOVE LIMITATIONS.

BURKETT PLACE SHALL REMAIN UNDER PRIVATE OWNERSHIP AND MAINTENANCE. IT WILL NOT BE CONSIDERED FOR OWNERSHIP AND MAINTENANCE BY DONA ANA COUNTY.

FIND 1/2" IRON ROD W/CAP MARKED "LS 010" (AS NOTED)

FOUND USR/USAGE BRASS CAP

HOT POND TO BE MAINTAINED BY INDIVIDUAL LOT OWNERS.

AGRICULTURAL PRESERVATION AND PONDING EASEMENT

EXCEPT STATE OR FEDERAL MONUMENTS UNLESS NOTED OTHERWISE.

SET MONUMENTS ARE 1/2 INCH REBAR WITH PLASTIC CAP MARKED "LS 8001" UNLESS OTHERWISE NOTED.

1. SET MONUMENTS ARE 1/2 INCH REBAR WITH PLASTIC CAP MARKED "LS 8001" UNLESS OTHERWISE NOTED.

2. SET MONUMENTS ARE 1/2 INCH REBAR WITH PLASTIC CAP MARKED "LS 8001" UNLESS OTHERWISE NOTED.

3. SET MONUMENTS ARE 1/2 INCH REBAR WITH PLASTIC CAP MARKED "LS 8001" UNLESS OTHERWISE NOTED.

GRAPHIC SCALE

STATE OF NEW MEXICO

FILED JULY 30, 1998

SUBMITTED BY: EUGEN BURKHOLDER

ANTHONY, NM 88021

SOUTHWEST ENGINEERING, INC.

475 ARCHULETA ROAD, LAS CRUCES, NEW MEXICO 88005

23 MAY 2013
EASEMENTS SHOWN HEREON, COPIES OF WHICH HAVE BEEN PRESENTED TO THE
EL PASO ELECTRIC COMPANY, ARE SATISFACTORY TO MEET THE NEEDS FOR THE
INSTALLATION OF UNDERGROUND AND/OR OVERHEAD TELEPHONE UTILITIES.

COP CO-INVESTORS

EASEMENTS SHOWN HEREON, COPIES OF WHICH HAVE BEEN PRESENTED TO
COMCAST CABLE COMPANY, ARE SATISFACTORY TO MEET THE NEEDS FOR THE
INSTALLATION OF UNDERGROUND AND/OR OVERHEAD TV CABLE UTILITIES.

COUNTY OF DONA ANA PLANNING AND ZONING COMMISSION APPROVAL

THE PLAT HAS BEEN SUBMITTED TO AND CHECKED BY THE DONA ANA COUNTY
PLANNING AND ZONING COMMISSION. IT CONCOURS WITH THE EXPANSION OF
EXISTING UTILITIES AND THOROUGHFARES AND IS IN ACCORDANCE WITH
GENERAL COUNTY PLANNING.

COUNTY CLERK

STATE OF NEW MEXICO
COUNTY OF DONA ANA

PLAT NO.
RECEPTION NO.

I HEREBY CERTIFY THAT THIS INSTRUMENT WAS FILED FOR
RECORD ON THIS DAY OF ,

AT O'CLOCK AND DULY RECORDED IN PLAT BOOK , PAGE , AND FILED IN THE RECORDS OF THE COUNTY CLERK
DONA ANA COUNTY, NEW MEXICO
THIS DAY OF ,

COUNTY CLERK

DATE OF RECORD

THE UNDERSIGNED OWNERS SET OUR HANDS THIS DAY

OF ,

BY EUGENE BURKEHOLDER

NOTARY PUBLIC

SURVEYOR'S CERTIFICATE

I, DARRYL D. COSTER, A NEW MEXICO PROFESSIONAL SURVEYOR, DO HEREBY
CERTIFY THAT THIS SURVEY WAS MADE AND THE ACTUAL SURVEY ON THE GROUND
UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT
SUPERVISION, THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY
MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

DATE OF SURVEY

DARRYL D. COSTER, PS #12024

ORCHARD ESTATES, PHASE III, IV, V
SUBMITTED BY:
EUGENE BURKEHOLDER
817 WEST ALOE DRIVE
ANTHONY, NM 88001

UTILITY APPROVALS
EL PASO ELECTRIC COMPANY

COP CO-INVESTORS

COMCAST CABLE COMPANY

COUNTY OF DONA ANA PLANNING AND ZONING COMMISSION APPROVAL

THE PLAT HAS BEEN SUBMITTED TO AND CHECKED BY THE DONA ANA COUNTY
PLANNING AND ZONING COMMISSION. IT CONCOURS WITH THE EXPANSION OF
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COUNTY OF DONA ANA

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EUGENE BURKEHOLDER
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STATE OF NEW MEXICO
COUNTY OF DONA ANA

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UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT
SUPERVISION, THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY
MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

DATE OF SURVEY

DARRYL D. COSTER, PS #12024
BULLOCK

LOCATION
3789
ft
JS04
f.

TOPOGRAPHIC SITE MAP
SCALE 1" = 1000'

LA MESA, N. MEX. QUADRANGLE - 1955
SITE LOCATION - SECTION 16 AND 21, TOWNSHIP 26 SOUTH,
RANGE 3 EAST
This map complies with FEMA’s standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA’s basemap accuracy standards. The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 7/30/2018 at 11:44:03 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.
MAP LEGEND

Area of Interest (AOI)

Soils

Soil Map Units

Soil Ratings

A

A/D

B

B/D

C

C/D

D

Not rated or not available

Political Features

Cities

Water Features

Oceans

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads

Local Roads

MAP INFORMATION

Map Scale: 1:4,290 if printed on A size (8.5" × 11") sheet.

The soil surveys that comprise your AOI were mapped at 1:24,000.

Please rely on the bar scale on each map sheet for accurate map measurements.

Source of Map: Natural Resources Conservation Service
Coordinate System: UTM Zone 13N NAD83

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Doña Ana County Area, New Mexico
Survey Area Data: Version 10, Sep 24, 2009
Date(s) aerial images were photographed: 3/9/1996

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.
Precipitation Frequency Estimates from NOAA Atlas 14

New Mexico 32.0431 N 106.6401 W 3799 feet
from "Precipitation-Frequency Atlas of the United States" NOAA Atlas 14, Volume 1, Version 4
G. M. M. Melone, D. Marion, R. Liu, T. Parry, J. H. Vokes, and D. Alley
NOAA, National Weather Service, Silver Spring, Maryland, 2006

Excerpted: Tue Oct 19 2010

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* Lower bound of the 90% confidence interval

Precipitation Frequency Estimates (inches)

** Upper bound of the 90% confidence interval

Website: http://hdsc.nws.noaa.gov/cgi-bin/hdsc/buildout/perl?type=pf&units=us&series=pd&state=NM

10/18/2010
### Table 2.2a Runoff curve numbers for urban areas

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<tr>
<th>Cover type and hydrologic condition</th>
<th>Average percent impervious area</th>
<th>Curve numbers for hydrologic soil group</th>
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<td>Runs out of space or similar to those in table 2-2c.</td>
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<td></td>
</tr>
<tr>
<td>Fully developed urban areas (vegetation established)</td>
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<tr>
<td>Open space (lawns, parks, golf courses, cemeteries, etc.)(\dagger):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Poor condition (grass cover &lt; 50%)</td>
<td>68</td>
<td>79</td>
</tr>
<tr>
<td>Fair condition (grass cover 50% to 75%)</td>
<td>49</td>
<td>69</td>
</tr>
<tr>
<td>Good condition (grass cover &gt; 75%)</td>
<td>30</td>
<td>61</td>
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<tr>
<td>Impervious areas:</td>
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<tr>
<td>Paved parking lots, roofs, driveways, etc. (excluding right-of-way)</td>
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</tr>
<tr>
<td>Streets and roads:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Paved, curbs and storm sewers (excluding right-of-way)</td>
<td>98</td>
<td>98</td>
</tr>
<tr>
<td>Paved; open ditches (including right-of-way)</td>
<td>83</td>
<td>89</td>
</tr>
<tr>
<td>Gravel (including right-of-way)</td>
<td>78</td>
<td>85</td>
</tr>
<tr>
<td>Dirt (including right-of-way)</td>
<td>72</td>
<td>82</td>
</tr>
<tr>
<td>Western desert urban areas:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Natural desert landscaping (pervious areas only)</td>
<td>63</td>
<td>77</td>
</tr>
<tr>
<td>Artificial desert landscaping (impervious weed barrier, desert shrub with 1- to 2-inch sand or gravel mulch and basin borders)</td>
<td>96</td>
<td>96</td>
</tr>
<tr>
<td>Urban districts:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Commercial and business</td>
<td>85</td>
<td>89</td>
</tr>
<tr>
<td>Industrial</td>
<td>72</td>
<td>81</td>
</tr>
<tr>
<td>Residential districts by average lot size:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/2 acre or less (town houses)</td>
<td>65</td>
<td>77</td>
</tr>
<tr>
<td>1/4 acre</td>
<td>38</td>
<td>61</td>
</tr>
<tr>
<td>1/3 acre</td>
<td>30</td>
<td>57</td>
</tr>
<tr>
<td>1/2 acre</td>
<td>25</td>
<td>54</td>
</tr>
<tr>
<td>1 acre</td>
<td>20</td>
<td>51</td>
</tr>
<tr>
<td>2 acres</td>
<td>12</td>
<td>46</td>
</tr>
<tr>
<td>Developing urban areas:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Newly graded areas (pervious areas only, no vegetation)</td>
<td>77</td>
<td>85</td>
</tr>
</tbody>
</table>

1. Average runoff condition, and \(I_0 = 0.25\).
2. The average percent impervious area shown was used to develop the composite CNs. Other assumptions are as follows: impervious areas are directly connected to the drainage system, impervious areas have a CN of 98, and pervious areas are considered equivalent to open space in good hydrologic condition. CNs for other combinations of conditions may be computed using figure 2-3 or 2-4.
3. CNs shown are equivalent to those of pasture. Composite CNs may be computed for other combinations of open space cover type.
4. Composite CNs for natural desert landscaping should be computed using figures 2-3 or 2-4 based on the impervious area percentage (CN = 98) and the pervious area CN. The pervious area CNs are assumed equivalent to desert shrub in poor hydrologic condition.
5. Composite CNs to use for the design of temporary measures during grading and construction should be computed using figure 2-3 or 2-4 based on the degree of development (impervious area percentage) and the CNs for the newly graded pervious areas.
APPENDIX C

10 YEAR STORMWATER DISCHARGE HYDROGRAPHS

100 YEAR STORMWATER DISCHARGE HYDROGRAPHS
Legend

<table>
<thead>
<tr>
<th>Hyd. Origin</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>SCS Runoff</td>
</tr>
<tr>
<td>2</td>
<td>SCS Runoff</td>
</tr>
</tbody>
</table>

Project: OE PreDev.gpw

Wednesday, Jul 6, 2011
## Hydrograph Return Period Recap

<table>
<thead>
<tr>
<th>Hyd. No.</th>
<th>Hydrograph type (origin)</th>
<th>Inflow Hyd(s)</th>
<th>1-Yr</th>
<th>2-Yr</th>
<th>3-Yr</th>
<th>5-Yr</th>
<th>10-Yr</th>
<th>25-Yr</th>
<th>50-Yr</th>
<th>100-Yr</th>
<th>Hydrograph description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>SCS Runoff</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
<td>10.38</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
<td>26.38</td>
<td>Basin A1</td>
</tr>
<tr>
<td>2</td>
<td>SCS Runoff</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
<td>14.52</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
<td>33.30</td>
<td>Basin A2</td>
</tr>
</tbody>
</table>

Proj. file: OE PreDev.gpw

Wednesday, Jul 6, 2011
PRE-DEVELOPMENT

10 YEAR STORMWATER DISCHARGE HYDROGRAPHS
<table>
<thead>
<tr>
<th>Hyd. No.</th>
<th>Hydrograph type (origin)</th>
<th>Peak flow (cfs)</th>
<th>Time interval (min)</th>
<th>Time to peak (min)</th>
<th>Hyd. volume (cuft)</th>
<th>Inflow hyd(s)</th>
<th>Maximum elevation (ft)</th>
<th>Total strge used (cuft)</th>
<th>Hydrograph description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>SCS Runoff</td>
<td>10.38</td>
<td>1</td>
<td>386</td>
<td>39,645</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>Basin A1</td>
</tr>
<tr>
<td>2</td>
<td>SCS Runoff</td>
<td>14.52</td>
<td>1</td>
<td>402</td>
<td>78,143</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>Basin A2</td>
</tr>
</tbody>
</table>

OE PreDev.gpw  
Return Period: 10 Year  
Wednesday, Jul 6, 2011
Hydrograph Report

Hyd. No. 1

Basin A1

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrograph type</td>
<td>SCS Runoff</td>
</tr>
<tr>
<td>Storm frequency</td>
<td>10 yrs</td>
</tr>
<tr>
<td>Time interval</td>
<td>1 min</td>
</tr>
<tr>
<td>Drainage area</td>
<td>15.860 ac</td>
</tr>
<tr>
<td>Basin Slope</td>
<td>0.0 %</td>
</tr>
<tr>
<td>Tc method</td>
<td>TR55</td>
</tr>
<tr>
<td>Total precip.</td>
<td>2.35 in</td>
</tr>
<tr>
<td>Storm duration</td>
<td>Type II-75</td>
</tr>
<tr>
<td></td>
<td>1min.cds</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peak discharge</td>
<td>10.38 cfs</td>
</tr>
<tr>
<td>Time to peak</td>
<td>6.43 hrs</td>
</tr>
<tr>
<td>Hyd. volume</td>
<td>39,645 cuft</td>
</tr>
<tr>
<td>Curve number</td>
<td>78*</td>
</tr>
<tr>
<td>Hydraulic length</td>
<td>0 ft</td>
</tr>
<tr>
<td>Time of conc. (Tc)</td>
<td>48.60 min</td>
</tr>
<tr>
<td>Distribution</td>
<td>Custom</td>
</tr>
<tr>
<td>Shape factor</td>
<td>484</td>
</tr>
</tbody>
</table>

* Composite (Area/CN) = [(0.060 x 98) + (15.580 x 78) + (0.220 x 86)] / 15.860

---

**Basein A1**

Hyd. No. 1 -- 10 Year

---

Page 252 of 299
### TR55 Tc Worksheet

**Hyd. No. 1**

Basin A1

<table>
<thead>
<tr>
<th>Description</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sheet Flow</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Manning's n-value</td>
<td>0.011</td>
<td>0.011</td>
<td>0.011</td>
<td>0.011</td>
</tr>
<tr>
<td>Flow length (ft)</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Two-year 24-hr precip. (in)</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Land slope (%)</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td><strong>Travel Time (min)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
</tbody>
</table>

**Shallow Concentrated Flow**

| Flow length (ft)                         | 1052.00 | 0.00     | 0.00     | 1052.00 |
| Watercourse slope (%)                    | 0.05    | 0.00     | 0.00     | 0.05    |
| Surface description                      | Unpaved | Paved    | Paved    | Unpaved |
| Average velocity (ft/s)                  | 0.36    | 0.00     | 0.00     | 0.36    |

**Travel Time (min)**

|                                         | 48.60   | 0.00     | 0.00     | 48.60   |

**Channel Flow**

| X sectional flow area (sqft)             | 0.00    | 0.00     | 0.00     | 0.00    |
| Wetted perimeter (ft)                    | 0.00    | 0.00     | 0.00     | 0.00    |
| Channel slope (%)                        | 0.00    | 0.00     | 0.00     | 0.00    |
| Manning's n-value                        | 0.015   | 0.015    | 0.015    | 0.015   |
| Velocity (ft/s)                          | 0.00    | 0.00     | 0.00     | 0.00    |
| Flow length (ft)                         | 0.0     | 0.0      | 0.0      | 0.0     |

**Travel Time (min)**

|                                         | 0.00    | 0.00     | 0.00     | 0.00    |

**Total Travel Time, Tc** ..................... 48.60 min
**Hydrograph Report**

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2009 by Autodesk, Inc, v6,066  
Wednesday, Jul 6, 2011

### Hyd. No. 2

#### Basin A2

<table>
<thead>
<tr>
<th>Hydrograph type</th>
<th>Peak discharge</th>
<th>Time to peak</th>
<th>Curved number</th>
<th>Hydraulic length</th>
<th>Time of conc. (Tc)</th>
<th>Distribution</th>
<th>Shape factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCS Runoff</td>
<td>14.52 cfs</td>
<td>6.70 hrs</td>
<td>82*</td>
<td>0 ft</td>
<td>74.90 min</td>
<td>Custom</td>
<td>484</td>
</tr>
<tr>
<td>Storm frequency</td>
<td>10 yrs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Time interval</td>
<td>1 min</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drainage area</td>
<td>24.220 ac</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Basin Slope</td>
<td>0.0 %</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tc method</td>
<td>TR55</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total precip.</td>
<td>2.35 in</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Storm duration</td>
<td>Type II-75 1min.cds</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Composite (Area/CN) = \([(0.180 \times 98) + (15.720 \times 78) + (8.320 \times 89)] / 24.220*

### Basin A2

**Hyd. No. 2 -- 10 Year**

![Graph of Basin A2 Hydrograph](image_url)

---

Page 254 of 299
## TR55 Tc Worksheet

### Hyd. No. 2

Basin A2

<table>
<thead>
<tr>
<th>Description</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sheet Flow</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Manning's n-value</td>
<td>= 0.011</td>
<td>0.011</td>
<td>0.011</td>
<td></td>
</tr>
<tr>
<td>Flow length (ft)</td>
<td>= 0.0</td>
<td>0.0</td>
<td>0.0</td>
<td></td>
</tr>
<tr>
<td>Two-year 24-hr precip. (in)</td>
<td>= 0.00</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>Land slope (%)</td>
<td>= 0.00</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td><strong>Travel Time (min)</strong></td>
<td>= 0.00</td>
<td>+ 0.00</td>
<td>+ 0.00</td>
<td>= 0.00</td>
</tr>
<tr>
<td><strong>Shallow Concentrated Flow</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flow length (ft)</td>
<td>= 1622.00</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>Watercourse slope (%)</td>
<td>= 0.05</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>Surface description</td>
<td>= Unpaved</td>
<td>Paved</td>
<td>Paved</td>
<td></td>
</tr>
<tr>
<td>Average velocity (ft/s)</td>
<td>= 0.36</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td><strong>Travel Time (min)</strong></td>
<td>= 74.93</td>
<td>+ 0.00</td>
<td>+ 0.00</td>
<td>= 74.93</td>
</tr>
<tr>
<td><strong>Channel Flow</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>X sectional flow area (sqft)</td>
<td>= 0.00</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>Wetted perimeter (ft)</td>
<td>= 0.00</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>Channel slope (%)</td>
<td>= 0.00</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>Manning's n-value</td>
<td>= 0.015</td>
<td>0.015</td>
<td>0.015</td>
<td></td>
</tr>
<tr>
<td>Velocity (ft/s)</td>
<td>= 0.00</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>Flow length (ft)</td>
<td>= 0.0</td>
<td>0.0</td>
<td>0.0</td>
<td></td>
</tr>
<tr>
<td><strong>Travel Time (min)</strong></td>
<td>= 0.00</td>
<td>+ 0.00</td>
<td>+ 0.00</td>
<td>= 0.00</td>
</tr>
</tbody>
</table>

Total Travel Time, Tc ................................................................. 74.90 min
PRE-DEVELOPMENT

100 YEAR STORMWATER DISCHARGE HYDROGRAPHS
<table>
<thead>
<tr>
<th>Hyd. No.</th>
<th>Hydrograph type (origin)</th>
<th>Peak flow (cfs)</th>
<th>Time interval (min)</th>
<th>Time to peak (min)</th>
<th>Hyd. volume (cuft)</th>
<th>Inflow hyd(e)</th>
<th>Maximum elevation (ft)</th>
<th>Total storge used (cuft)</th>
<th>Hydrograph description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>SCS Runoff</td>
<td>26.36</td>
<td>1</td>
<td>386</td>
<td>94,095</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
<td>Basin A1</td>
</tr>
<tr>
<td>2</td>
<td>SCS Runoff</td>
<td>33.30</td>
<td>1</td>
<td>402</td>
<td>170,617</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
<td>Basin A2</td>
</tr>
</tbody>
</table>

OE PreDev.gpw

Return Period: 100 Year

Wednesday, Jul 6, 2011
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2009 by Autodesk, Inc, v6.066 Wednesday, Jul 6, 2011

**Hyd. No. 1**

**Basin A1**

- **Hydrograph type**: SCS Runoff
- **Peak discharge**: 26.36 cfs
- **Storm frequency**: 100 yrs
- **Time to peak**: 6.43 hrs
- **Time interval**: 1 min
- **Hyd. volume**: 94,095 cuft
- **Drainage area**: 15.860 ac
- **Curve number**: 78*
- **Basin Slope**: 0.0%
- **Hydraulic length**: 0 ft
- **Tc method**: TR55
- **Total precip.**: 3.69 in
- **Time of conc. (Tc)**: 48.60 min
- **Distribution**: Custom
- **Shape factor**: 484

* Composite (Area/CN) = [(0.060 x 98) + (15.580 x 78) + (0.220 x 86)] / 15.860

---

**Basin A1**

**Hyd. No. 1 -- 100 Year**

<table>
<thead>
<tr>
<th>Q (cfs)</th>
<th>Q (cfs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>4.00</td>
<td>4.00</td>
</tr>
<tr>
<td>8.00</td>
<td>8.00</td>
</tr>
<tr>
<td>12.00</td>
<td>12.00</td>
</tr>
<tr>
<td>16.00</td>
<td>16.00</td>
</tr>
<tr>
<td>20.00</td>
<td>20.00</td>
</tr>
<tr>
<td>24.00</td>
<td>24.00</td>
</tr>
<tr>
<td>28.00</td>
<td>28.00</td>
</tr>
</tbody>
</table>

**Q (cfs)**

0.00 2.00 4.00 6.00 8.00 10.00 12.00 14.00 16.00

**Time (hrs)**

0.00 2.00 4.00 6.00 8.00 10.00 12.00 14.00 16.00
Hydrograph Report

Hydraflow® Hydrographs Extension for AutoCAD® Civil 3D® 2009 by Autodesk, Inc. v6.066  Wednesday, Jul 6, 2011

Hyd. No. 2
Basin A2

Hydrograph type = SCS Runoff
Storm frequency = 100 yrs
Time interval = 1 min
Drainage area = 24,220 ac
Basin Slope = 0.0 %
Tc method = TR55
Total precip. = 3.69 in
Storm duration = Type II-75 1min.cds

Peak discharge = 33.30 cfs
Time to peak = 6.70 hrs
Hyd. volume = 170,617 cuft
Curve number = 82*
Hydraulic length = 0 ft
Time of conc. (Tc) = 74.90 min
Distribution = Custom
Shape factor = 484

* Composite (Area/CN) = [(0.180 x 98) + (15.720 x 78) + (8,320 x 89)] / 24.220

Basin A2
Hyd. No. 2 -- 100 Year

Q (cfs)
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00

0.0 2.0 4.0 6.0 8.0 10.0 12.0 14.0 16.0 18.0 20.0 22.0
Time (hrs)

Q (cfs)
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00

0.0 2.0 4.0 6.0 8.0 10.0 12.0 14.0 16.0 18.0 20.0 22.0
Time (hrs)
POST-DEVELOPMENT

STORMWATER DISCHARGE CALCULATIONS
Watershed Model Schematic

Legend

<table>
<thead>
<tr>
<th>Hyd.</th>
<th>Origin</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>SCS Runoff</td>
<td>Basin A1</td>
</tr>
<tr>
<td>2</td>
<td>SCS Runoff</td>
<td>Basin A2</td>
</tr>
<tr>
<td>3</td>
<td>SCS Runoff</td>
<td>Basin A3</td>
</tr>
<tr>
<td>4</td>
<td>SCS Runoff</td>
<td>Basin B1</td>
</tr>
<tr>
<td>5</td>
<td>SCS Runoff</td>
<td>Basin B2</td>
</tr>
<tr>
<td>6</td>
<td>SCS Runoff</td>
<td>Basin B3</td>
</tr>
<tr>
<td>7</td>
<td>SCS Runoff</td>
<td>Basin B4</td>
</tr>
<tr>
<td>8</td>
<td>SCS Runoff</td>
<td>Basin C</td>
</tr>
</tbody>
</table>

Project: OE PostDev.gpw

Wednesday, Jul 6, 2011
### Hydrograph Return Period Recap

<table>
<thead>
<tr>
<th>Hyd. No.</th>
<th>Hydrograph type (origin)</th>
<th>Inflow Hyd(s)</th>
<th>Peak Outflow (cfs)</th>
<th>Hydrograph description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>1-Yr</td>
<td>2-Yr</td>
</tr>
<tr>
<td>1</td>
<td>SCS Runoff</td>
<td></td>
<td></td>
<td>1.788</td>
</tr>
<tr>
<td>2</td>
<td>SCS Runoff</td>
<td></td>
<td></td>
<td>1.391</td>
</tr>
<tr>
<td>3</td>
<td>SCS Runoff</td>
<td></td>
<td></td>
<td>3.111</td>
</tr>
<tr>
<td>4</td>
<td>SCS Runoff</td>
<td></td>
<td></td>
<td>2.483</td>
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<tr>
<td>5</td>
<td>SCS Runoff</td>
<td></td>
<td></td>
<td>1.795</td>
</tr>
<tr>
<td>6</td>
<td>SCS Runoff</td>
<td></td>
<td></td>
<td>1.355</td>
</tr>
<tr>
<td>7</td>
<td>SCS Runoff</td>
<td></td>
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<td>0.956</td>
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<tr>
<td>8</td>
<td>SCS Runoff</td>
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<td>29.92</td>
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</table>

Proj. file: OE PostDev.gpw

Wednesday, Jul 6, 2011
POST-DEVELOPMENT

10 YEAR STORMWATER DISCHARGE HYDROGRAPHS
# Hydrograph Summary Report

<table>
<thead>
<tr>
<th>Hyd. No.</th>
<th>Hydrograph type (origin)</th>
<th>Peak flow (cfs)</th>
<th>Time interval (min)</th>
<th>Time to peak (min)</th>
<th>Hyd. volume (cuft)</th>
<th>Inflow hyd(s)</th>
<th>Maximum elevation (ft)</th>
<th>Total strga used (cuft)</th>
<th>Hydrograph description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>SCS Runoff</td>
<td>1.788</td>
<td>1</td>
<td>388</td>
<td>6,915</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>Basin A1</td>
</tr>
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<td>2</td>
<td>SCS Runoff</td>
<td>1.391</td>
<td>1</td>
<td>388</td>
<td>5,487</td>
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<td>—</td>
<td>—</td>
<td>Basin A2</td>
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<tr>
<td>3</td>
<td>SCS Runoff</td>
<td>3.111</td>
<td>1</td>
<td>402</td>
<td>16,584</td>
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<td>Basin A3</td>
</tr>
<tr>
<td>4</td>
<td>SCS Runoff</td>
<td>2.483</td>
<td>1</td>
<td>388</td>
<td>9,518</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>Basin B1</td>
</tr>
<tr>
<td>5</td>
<td>SCS Runoff</td>
<td>1.795</td>
<td>1</td>
<td>389</td>
<td>7,019</td>
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<td>Basin B2</td>
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<tr>
<td>6</td>
<td>SCS Runoff</td>
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<td>395</td>
<td>6,154</td>
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<td>—</td>
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<td>Basin B3</td>
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<tr>
<td>7</td>
<td>SCS Runoff</td>
<td>0.958</td>
<td>1</td>
<td>389</td>
<td>3,713</td>
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<td>—</td>
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<tr>
<td>8</td>
<td>SCS Runoff</td>
<td>29.92</td>
<td>1</td>
<td>378</td>
<td>82,990</td>
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<td>—</td>
<td>—</td>
<td>Basin C</td>
</tr>
</tbody>
</table>

OE PostDev.gpw

Return Period: 10 Year

Wednesday, Jul 6, 2011
Hydrograph Report

Hyd. No. 1
Basin A1

Hydrograph type = SCS Runoff
Storm frequency = 10 yrs
Time interval = 1 min
Drainage area = 2.010 ac
Basin Slope = 0.0 %
Tc method = TR55
Total precip. = 2.35 in
Storm duration = Type II-75 1min.cds

Peak discharge = 1.788 cfs
Time to peak = 6.47 hrs
Hyd. volume = 6,915 cuft
Curve number = 83*
Hydraulic length = 0 ft
Time of conc. (Tc) = 51.60 min
Distribution = Custom
Shape factor = 484

* Composite (Area/CN) = [(0.560 x 98) + (1.220 x 78) + (0.130 x 86) + (0.100 x 61)] / 2.010
# TR55 Tc Worksheet

**Hyd. No. 1**
Basin A1

### Description

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sheet Flow</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Manning's n-value</td>
<td>0.011</td>
<td></td>
<td>0.011</td>
<td></td>
</tr>
<tr>
<td>Flow length (ft)</td>
<td>24.0</td>
<td></td>
<td>0.0</td>
<td></td>
</tr>
<tr>
<td>Two-year 24-hr precip. (in)</td>
<td>1.51</td>
<td></td>
<td>0.0</td>
<td></td>
</tr>
<tr>
<td>Land slope (%)</td>
<td>2.00</td>
<td></td>
<td>0.0</td>
<td></td>
</tr>
<tr>
<td><strong>Travel Time (min)</strong></td>
<td>0.56 + 51.04 + 0.00 = 51.60</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| **Shallow Concentrated Flow** |         |         |     |          |
| Flow length (ft)           | 0.00    |         | 0.0  |          |
| Watercourse slope (%)      | 0.00    |         | 0.0  |          |
| Surface description        | Paved   |         | Paved|          |
| Average velocity (ft/s)    | 0.00    |         | 0.0  |          |
| **Travel Time (min)**      | 0.00 + 0.00 + 0.00 = 0.00 |         |     |          |

| **Channel Flow**            |         |         |     |          |
| X sectional flow area (sqft)| 0.00    |         | 0.0  |          |
| Wetted perimeter (ft)       | 0.00    |         | 0.0  |          |
| Channel slope (%)           | 0.00    |         | 0.0  |          |
| Manning's n-value           | 0.015   |         | 0.015|          |
| Velocity (ft/s)             | 0.00    |         | 0.0  |          |
| Flow length (ft)            | 0.0     |         | 0.0  |          |
| **Travel Time (min)**       | 0.00 + 0.00 + 0.00 = 0.00 |         |     |          |

**Total Travel Time, Tc** .......................................................... 51.60 min
Hyd. No. 2
Basin A2

Hydrograph type = SCS Runoff
Storm frequency = 10 yrs
Time interval = 1 min
Drainage area = 1.800 ac
Basin Slope = 0.0%
Tc method = TR55
Total precip. = 2.35 in
Storm duration = Type II-75 1min.cds

<table>
<thead>
<tr>
<th>Time (hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0</td>
</tr>
<tr>
<td>2.0</td>
</tr>
<tr>
<td>4.0</td>
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<tr>
<td>6.0</td>
</tr>
<tr>
<td>8.0</td>
</tr>
<tr>
<td>10.0</td>
</tr>
<tr>
<td>12.0</td>
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<tr>
<td>14.0</td>
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<tr>
<td>16.0</td>
</tr>
<tr>
<td>18.0</td>
</tr>
<tr>
<td>20.0</td>
</tr>
</tbody>
</table>

Q (cfs)

2.00
1.00
0.00

10.0 12.0 4.0 16.0 18.0 20.0

Time (hrs)

Hyd. No. 2 - 10 Year

Peak discharge = 1.391 cfs
Time to peak = 6.47 hrs
Hyd. volume = 5,487 cuft
Curve number = 81*
Hydraulic length = 0 ft
Time of conc. (Tc) = 52.20 min
Distribution = Custom
Shape factor = 484

* Composite (Area/CN) = (0.570 x 98) + (1.000 x 78) + (0.130 x 86) + (0.100 x 61) / 1.800
## TR55 Tc Worksheet

**Hyd. No. 2**

Basin A2

<table>
<thead>
<tr>
<th>Description</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sheet Flow</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Manning's n-value</td>
<td>0.011</td>
<td>0.060</td>
<td>0.011</td>
<td></td>
</tr>
<tr>
<td>Flow length (ft)</td>
<td>24.0</td>
<td>279.0</td>
<td>0.0</td>
<td></td>
</tr>
<tr>
<td>Two-year 24-hr precip. (in)</td>
<td>1.51</td>
<td>1.51</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>Land slope (%)</td>
<td>2.00</td>
<td>0.10</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>Travel Time (min)</td>
<td>0.56</td>
<td>+</td>
<td>51.61</td>
<td>+ 0.00</td>
</tr>
<tr>
<td><strong>Shallow Concentrated Flow</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flow length (ft)</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>Watercourse slope (%)</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>Surface description</td>
<td>Paved</td>
<td>Paved</td>
<td>Paved</td>
<td></td>
</tr>
<tr>
<td>Average velocity (ft/s)</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>Travel Time (min)</td>
<td>0.00</td>
<td>+</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td><strong>Channel Flow</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>X sectional flow area (sqft)</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>Wetted perimeter (ft)</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>Channel slope (%)</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>Manning's n-value</td>
<td>0.015</td>
<td>0.015</td>
<td>0.015</td>
<td></td>
</tr>
<tr>
<td>Velocity (ft/s)</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>Flow length (ft)</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td></td>
</tr>
<tr>
<td>Travel Time (min)</td>
<td>0.00</td>
<td>+</td>
<td>0.00</td>
<td></td>
</tr>
</tbody>
</table>

Total Travel Time, Tc .............................. 52.20 min
Hydrograph Report

Hyd. No. 3
Basin A3

Hydrograph type = SCS Runoff
Peak discharge = 3.111 cfs
Storm frequency = 10 yrs
Time to peak = 6.70 hrs
Time interval = 1 min
Hyd. volume = 16,584 cuft
Drainage area = 4.840 ac
Curve number = 83*
Basin Slope = 0.0 %
Hydraulic length = 0 ft
Tc method = TR55
Time of conc. (Tc) = 75.40 min
Total precip. = 2.35 in
Distribution = Custom
Storm duration = Type II-75 1min.cds
Shape factor = 484

* Composite (Area/CN) = [(1.280 x 98) + (3.310 x 78) + (0.070 x 86) + (0.180 x 61)] / 4.840

---

Basin A3
Hyd. No. 3 -- 10 Year

---

Page 269 of 299
## TR55 Tc Worksheet

Hyd. No. 3  
Basin A3

<table>
<thead>
<tr>
<th>Description</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sheet Flow</strong></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Manning's n-value</td>
<td>0.011</td>
<td>0.060</td>
<td>0.060</td>
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<tr>
<td>Flow length (ft)</td>
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<td>269.0</td>
<td>109.0</td>
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<tr>
<td>Two-year 24-hr precip. (in)</td>
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<td>1.51</td>
<td>1.51</td>
<td></td>
</tr>
<tr>
<td>Land slope (%)</td>
<td>2.00</td>
<td>0.10</td>
<td>0.10</td>
<td></td>
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<tr>
<td><strong>Travel Time (min)</strong></td>
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<td>50.13</td>
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<td><strong>Shallow Concentrated Flow</strong></td>
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<td></td>
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<tr>
<td>Flow length (ft)</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>Watercourse slope (%)</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>Surface description</td>
<td>Paved</td>
<td>Paved</td>
<td>Paved</td>
<td></td>
</tr>
<tr>
<td>Average velocity (ft/s)</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td><strong>Travel Time (min)</strong></td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td><strong>Channel Flow</strong></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>X sectional flow area (sqft)</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>Wetted perimeter (ft)</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>Channel slope (%)</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>Manning's n-value</td>
<td>0.015</td>
<td>0.015</td>
<td>0.015</td>
<td></td>
</tr>
<tr>
<td>Velocity (ft/s)</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>Flow length (ft)</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td><strong>Travel Time (min)</strong></td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td><strong>Total Travel Time, Tc</strong></td>
<td></td>
<td></td>
<td></td>
<td>75.40 min</td>
</tr>
</tbody>
</table>

---

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Hydrograph Report

Hyd. No. 4
Basin B1

Hydrograph type = SCS Runoff
Storm frequency = 10 yrs
Time interval = 1 min
Drainage area = 2.610 ac
Basin Slope = 0.0 %
Tc method = TR55
Total precip. = 2.35 in
Storm duration = Type II-75 1min.cds

Peak discharge = 2.483 cfs
Time to peak = 6.47 hrs
Hyd. volume = 9,518 cuft
Curve number = 84*
Hydraulic length = 0 ft
Time of conc. (Tc) = 52.50 min
Distribution = Custom
Shape factor = 484

* Composite (Area/CN) = [(0.790 x 98) + (1.520 x 78) + (0.160 x 86) + (0.140 x 61)] / 2.610
### TR55 Tc Worksheet

**Hyd. No. 4**

**Basin B1**

<table>
<thead>
<tr>
<th>Description</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sheet Flow</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Manning’s n-value</td>
<td>0.011</td>
<td>0.060</td>
<td>0.011</td>
<td></td>
</tr>
<tr>
<td>Flow length (ft)</td>
<td>24.0</td>
<td>281.1</td>
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</tr>
<tr>
<td>Two-year 24-hr precip. (in)</td>
<td>1.51</td>
<td>1.51</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>Land slope (%)</td>
<td>2.00</td>
<td>0.10</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td><strong>Travel Time (min)</strong></td>
<td>0.56</td>
<td>+ 51.92</td>
<td>+ 0.00</td>
<td>52.49</td>
</tr>
<tr>
<td><strong>Shallow Concentrated Flow</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flow length (ft)</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>Watercourse slope (%)</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>Surface description</td>
<td>Paved</td>
<td>Paved</td>
<td>Paved</td>
<td></td>
</tr>
<tr>
<td>Average velocity (ft/s)</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td><strong>Travel Time (min)</strong></td>
<td>0.00</td>
<td>+ 0.00</td>
<td>+ 0.00</td>
<td>0.00</td>
</tr>
<tr>
<td><strong>Channel Flow</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>X sectional flow area (sqft)</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>Wetted perimeter (ft)</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>Channel slope (%)</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>Manning’s n-value</td>
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<td>0.015</td>
<td>0.015</td>
<td></td>
</tr>
<tr>
<td>Velocity (ft/s)</td>
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<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>Flow length (ft)</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td></td>
</tr>
<tr>
<td><strong>Travel Time (min)</strong></td>
<td>0.00</td>
<td>+ 0.00</td>
<td>+ 0.00</td>
<td>0.00</td>
</tr>
</tbody>
</table>

**Total Travel Time, Tc** ............................................................................ **52.50 min**
**Hydrograph Report**

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2009 by Autodesk, Inc. v6.066

**Hyd. No. 5**

**Basin B2**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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<tbody>
<tr>
<td>Hydrograph type</td>
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</tr>
<tr>
<td>Storm frequency</td>
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</tr>
<tr>
<td>Time interval</td>
<td>1 min</td>
</tr>
<tr>
<td>Drainage area</td>
<td>1.940 ac</td>
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<tr>
<td>Basin Slope</td>
<td>0.0 %</td>
</tr>
<tr>
<td>Tc method</td>
<td>TR55</td>
</tr>
<tr>
<td>Total precip.</td>
<td>2.35 in</td>
</tr>
<tr>
<td>Storm duration</td>
<td>Type II-75 1min.cds</td>
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<tr>
<td>Peak discharge</td>
<td>1.795 cfs</td>
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<td>Time to peak</td>
<td>6.48 hrs</td>
</tr>
<tr>
<td>Hyd. volume</td>
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<tr>
<td>Curve number</td>
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<tr>
<td>Hydraulic length</td>
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<td>Time of conc. (Tc)</td>
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<td>Distribution</td>
<td>Custom</td>
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<td>Shape factor</td>
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</tbody>
</table>

*Composite (Area/CN) = [(0.000 x 98) + (1.100 x 78) + (0.140 x 86) + (0.100 x 61)] / 1,940*

---

**Basin B2**

**Hyd. No. 5 -- 10 Year**

*Q (cfs)*

---

**Time (hrs)**

---

Hyd No. 5
### Hyd. No. 5

Basin B2

<table>
<thead>
<tr>
<th>Description</th>
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<tbody>
<tr>
<td><strong>Sheet Flow</strong></td>
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</tr>
<tr>
<td>Manning's n-value</td>
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<td>0.00</td>
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<td>Land slope (%)</td>
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<td><strong>Travel Time (min)</strong></td>
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<tr>
<td>Flow length (ft)</td>
<td>0.00</td>
<td>0.00</td>
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</tr>
<tr>
<td>Watercourse slope (%)</td>
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<td>0.00</td>
<td>0.00</td>
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<td>Surface description</td>
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<td>Paved</td>
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<td>Average velocity (ft/s)</td>
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<td><strong>Travel Time (min)</strong></td>
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<td><strong>Channel Flow</strong></td>
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<td>X sectional flow area (sqft)</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
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<tr>
<td>Wetted perimeter (ft)</td>
<td>0.00</td>
<td>0.00</td>
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<tr>
<td>Channel slope (%)</td>
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<td>0.00</td>
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<td>Manning's n-value</td>
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<tr>
<td>Velocity (ft/s)</td>
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<td>Flow length (ft)</td>
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<td><strong>Travel Time (min)</strong></td>
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<td>0.00</td>
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<tr>
<td><strong>Total Travel Time, Tc</strong></td>
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<td></td>
<td>52.60 min</td>
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Total Travel Time, Tc: 52.60 min
Hyd. No. 6

Basin B3

Hydrograph type = SCS Runoff
Storm frequency = 10 yrs
Time interval = 1 min
Drainage area = 1.700 ac
Basin Slope = 0.0 %
Tc method = TR55
Total precip. = 2.35 in
Storm duration = Type II-75 1min.cds

Peak discharge = 1.355 cfs
Time to peak = 6.58 hrs
Hyd. volume = 6,154 cuft
Curve number = 84*
Hydraulic length = 0 ft
Time of conc. (Tc) = 64.40 min
Distribution = Custom
Shape factor = 484

\[
\text{* Composite (Area/CN) = } \left[ \frac{(0.580 \times 98) + (0.970 \times 78) + (0.050 \times 86) + (0.100 \times 61)}{1.700} \right]
\]
# TR55 Tc Worksheet

Hyd. No. 6  
Basin B3

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<tr>
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<th>B</th>
<th>C</th>
<th>Totals</th>
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<td><strong>Sheet Flow</strong></td>
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<tr>
<td>Manning's n-value</td>
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<td>0.060</td>
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<td>1.51</td>
<td>1.51</td>
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<tr>
<td>Land slope (%)</td>
<td>2.00</td>
<td>0.10</td>
<td>0.10</td>
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<tr>
<td><strong>Travel Time (min)</strong></td>
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<tr>
<td>Flow length (ft)</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
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</tr>
<tr>
<td>Watercourse slope (%)</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>Surface description</td>
<td>Paved</td>
<td>Paved</td>
<td>Paved</td>
<td></td>
</tr>
<tr>
<td>Average velocity (ft/s)</td>
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<td>0.00</td>
<td>0.00</td>
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</tr>
<tr>
<td><strong>Travel Time (min)</strong></td>
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<td>0.00</td>
<td>0.00</td>
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<td><strong>Channel Flow</strong></td>
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<tr>
<td>X sectional flow area (sqft)</td>
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<td>0.00</td>
<td>0.00</td>
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</tr>
<tr>
<td>Wetted perimeter (ft)</td>
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<td>0.00</td>
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<tr>
<td>Channel slope (%)</td>
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<td>Manning's n-value</td>
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</tr>
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<tr>
<td>Flow length (ft)</td>
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</tr>
<tr>
<td><strong>Travel Time (min)</strong></td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
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Total Travel Time, Tc: 64.40 min
Hyd. No. 7
Basin B4

Hydrograph type = SCS Runoff
Storm frequency = 10 yrs
Time interval = 1 min
Drainage area = 0.970 ac
Basin Slope = 0.0 %
Tc method = TR55
Total precip. = 2.35 in
Storm duration = Type II-75 1min.cds

Peak discharge = 0.958 cfs
Time to peak = 6.48 hrs
Hyd. volume = 3,713 cuft
Curve number = 85*
Hydraulic length = 0 ft
Time of conc. (Tc) = 53.50 min
Distribution = Custom
Shape factor = 484

* Composite (Area/CN) = [(0.350 x 98) + (0.540 x 78) + (0.030 x 86) + (0.050 x 61)] / 0.970
### TR55 Tc Worksheet

**Hyd. No. 7**

Basin B4

<table>
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<tr>
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<th>B</th>
<th>C</th>
<th>Totals</th>
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<tr>
<td><strong>Sheet Flow</strong></td>
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<td>0.060</td>
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<td>Land slope (%)</td>
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<td>Flow length (ft)</td>
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<tr>
<td>Surface description</td>
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</tr>
<tr>
<td>Average velocity (ft/s)</td>
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<td>0.00</td>
<td>0.00</td>
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</tr>
<tr>
<td>Travel Time (min)</td>
<td>0.00</td>
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<tr>
<td><strong>Channel Flow</strong></td>
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<td>X sectional flow area (sqft)</td>
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<td>0.00</td>
<td></td>
</tr>
<tr>
<td>Wetted perimeter (ft)</td>
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<td>0.00</td>
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<tr>
<td>Channel slope (%)</td>
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<td>Flow length (ft)</td>
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</tr>
<tr>
<td>Travel Time (min)</td>
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<td><strong>Total Travel Time, Tc</strong></td>
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<td></td>
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<td>53.50 min</td>
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</table>

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Hydrograph Report

Hyd. No. 8

Basin C

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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<td>Hydrograph type</td>
<td>SCS Runoff</td>
</tr>
<tr>
<td>Storm frequency</td>
<td>10 yrs</td>
</tr>
<tr>
<td>Time interval</td>
<td>1 min</td>
</tr>
<tr>
<td>Drainage area</td>
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<td>Basin Slope</td>
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<td>Total precip.</td>
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<td>Storm duration</td>
<td>Type II-75 1min.cds</td>
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<table>
<thead>
<tr>
<th>Parameter</th>
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<td>Shape factor</td>
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* Composite Area/CN = [(2.810 x 98) + (20.890 x 81) + (0.240 x 90) + (0.280 x 73)] / 24.220

Basin C

Hyd. No. 8 -- 10 Year

Q (cfs)

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Q (cfs)
## TR55 Tc Worksheet

**Hyd. No. 8**  
Basin C

<table>
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<th>Description</th>
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<th>B</th>
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<tr>
<td><strong>Sheet Flow</strong></td>
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</tr>
<tr>
<td>Manning's n-value</td>
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<td>0.011</td>
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<td>0.00</td>
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</tr>
<tr>
<td>Land slope (%)</td>
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<td>X sectional flow area (sqft)</td>
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</tr>
<tr>
<td>Wetted perimeter (ft)</td>
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<td>0.00</td>
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<tr>
<td>Channel slope (%)</td>
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<td>0.00</td>
<td></td>
</tr>
<tr>
<td>Manning's n-value</td>
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<td>0.015</td>
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</tr>
<tr>
<td>Velocity (ft/s)</td>
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<td>0.00</td>
<td>0.00</td>
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</tr>
<tr>
<td>Flow length (ft)</td>
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<tr>
<td><strong>Travel Time (min)</strong></td>
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**Total Travel Time, Tc** ................................................................. 34.40 min
# Hydrograph Summary Report

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<th>Hydrograph type (origin)</th>
<th>Peak flow (cfs)</th>
<th>Time interval (min)</th>
<th>Time to peak (min)</th>
<th>Hyd. volume (cuft)</th>
<th>Inflow hyd(s)</th>
<th>Maximum elevation (ft)</th>
<th>Total strge used (cuft)</th>
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<td>8</td>
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<td>Basin C</td>
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OE PostDev.gpw  
Return Period: 100 Year  
Wednesday, Jul 6, 2011
## Hyd. No. 1

**Basin A1**

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<td>Time interval</td>
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<tr>
<td>Total precip.</td>
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</tr>
<tr>
<td>Storm duration</td>
<td>Type II-75 1min.cds</td>
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</tr>
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<td>Hyd. volume</td>
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<tr>
<td>Curve number</td>
<td>83*</td>
</tr>
<tr>
<td>Hydraulic length</td>
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</tr>
<tr>
<td>Time of conc. (Tc)</td>
<td>51.60 min</td>
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<tr>
<td>Distribution</td>
<td>Custom</td>
</tr>
<tr>
<td>Shape factor</td>
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</tbody>
</table>

* Composite (Area/CN) = [(0.560 x 98) + (1.220 x 78) + (0.130 x 86) + (0.100 x 61)] / 2.010

---

**Basin A1**

**Hyd. No. 1 - 100 Year**

![Graph showing hydrograph for Basin A1 with peak discharge of 4.006 cfs at time 6.45 hrs, hyd. volume of 14,794 cuft, curve number of 83*, hydraulic length of 0 ft, time of concentration (Tc) of 51.60 min, distribution of Custom, and shape factor of 484.](image_url)
**Hyd. No. 2**

Basin A2

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<td>Drainage area</td>
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<td>0.0 %</td>
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<tr>
<td>Tc method</td>
<td>TR55</td>
</tr>
<tr>
<td>Total precip.</td>
<td>3.69 in</td>
</tr>
<tr>
<td>Storm duration</td>
<td>Type II-75 1min.cds</td>
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<tr>
<td>Peak discharge</td>
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<td>Time of conc. (Tc)</td>
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<td>Shape factor</td>
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</table>

* Composite (Area/CN) = \[(0.570 \times 98) + (1.000 \times 78) + (0.130 \times 86) + (0.100 \times 61)\] / 1.800
## Hydrograph Report

Hydraulic Hydrographs Extension for AutoCAD® Civil 3D® 2009 by Autodesk, Inc. v6.0.66

### Hyd. No. 3

Basin A3

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<tr>
<td>Time interval</td>
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<tr>
<td>Drainage area</td>
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<td>Basin Slope</td>
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<tr>
<td>Total precip.</td>
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<td>Storm duration</td>
<td>Type II - 75 1 min cds</td>
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*Composite (Area/CN) = [(1.280 x 98) + (3.310 x 78) + (0.070 x 86) + (0.180 x 61)] / 4.840*

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<td>Hyd. volume</td>
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![Graph of Basin A3](image)

**Basin A3**

**Hyd. No. 3 -- 100 Year**

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<th>Q (cfs)</th>
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<tr>
<td>1.00</td>
<td>1.00</td>
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<tr>
<td>0.00</td>
<td>0.00</td>
</tr>
</tbody>
</table>

**Time (hrs)**

0.0  2.0  4.0  6.0  8.0  10.0  12.0  14.0  16.0  18.0  20.0  22.0

**Hyd No. 3**
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2009 by Autodesk, Inc. V6.066

Wednesday, Jul 6, 2011

Hyd. No. 4

Basin B1

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<td>Time interval</td>
<td>1 min</td>
</tr>
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<td>Drainage area</td>
<td>2.610 ac</td>
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<tr>
<td>Basin Slope</td>
<td>0.0 %</td>
</tr>
<tr>
<td>Tc method</td>
<td>TR55</td>
</tr>
<tr>
<td>Total precip.</td>
<td>3.69 in</td>
</tr>
<tr>
<td>Storm duration</td>
<td>Type II-75 1min.cds</td>
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</table>

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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<tbody>
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<td>Peak discharge</td>
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<td>Hyd. volume</td>
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<td>Distribution</td>
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* Composite (Area/CN) = [(0.790 x 98) + (1.520 x 78) + (0.160 x 86) + (0.140 x 61)] / 2.610

Graph: Basin B1

Hyd. No. 4 -- 100 Year

Q (cfs)

Q (cfs)

Time (hrs)
**Hydrograph Report**

**Hyd. No. 5**

**Basin B2**

- Hydrograph type: SCS Runoff
- Storm frequency: 100 yrs
- Time interval: 1 min
- Drainage area: 1.940 ac
- Basin Slope: 0.0 %
- Tc method: TR55
- Total precip.: 3.69 in
- Storm duration: Type II-75 1min.cds

- Peak discharge = 3.931 cfs
- Time to peak = 6.47 hrs
- Hyd. volume = 14,732 cuft
- Curve number = 84*
- Hydraulic length = 0 ft
- Time of conc. (Tc) = 52.60 min
- Distribution = Custom
- Shape factor = 484

*Composite (Area/CN) = \((0.600 \times 98) + (1.100 \times 78) + (0.140 \times 86) + (0.100 \times 61)\) / 1.940

---

**Basin B2**

Hyd. No. 5 – 100 Year

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Page 287 of 299
**Hydrograph Report**

*Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2009 by Autodesk, Inc.* v6.066

**Hyd. No. 6**

**Basin B3**

<table>
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</tr>
<tr>
<td>Storm frequency</td>
<td>100 yrs</td>
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<tr>
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<td>1 min</td>
</tr>
<tr>
<td>Drainage area</td>
<td>1.700 ac</td>
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<tr>
<td>Basin Slope</td>
<td>0.0 %</td>
</tr>
<tr>
<td>Tc method</td>
<td>TR55</td>
</tr>
<tr>
<td>Total precip.</td>
<td>3.69 in</td>
</tr>
<tr>
<td>Storm duration</td>
<td>Type II-75 1min.cds</td>
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<td>Peak discharge</td>
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<td>Hyd. volume</td>
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<td>Time of conc. (Tc)</td>
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<td>Shape factor</td>
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* Composite (Area/CN) = [(0.580 x 98) + (0.970 x 78) + (0.050 x 86) + (0.100 x 61)] / 1.700

![Graph: Basin B3 Hydrograph](image)

**Basin B3**

Hyd. No. 6 -- 100 Year

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*Page 288 of 299*
Hyd. No. 7

Basin B4

Hydrograph type = SCS Runoff
Storm frequency = 100 yrs
Time interval = 1 min
Drainage area = 0.970 ac
Basin Slope = 0.0 %
Tc method = TR55
Total precip. = 3.69 in
Storm duration = Type II-75 1 min cds

Peak discharge = 2.054 cfs
Time to peak = 6.47 hrs
Hyd. volume = 7,656 cu ft
Curve number = 85*
Hydraulic length = 0 ft
Time of conc. (Tc) = 53.50 min
Distribution = Custom
Shape factor = 484

* Composite (Area/CN) = [(0.350 x 98) + (0.540 x 78) + (0.030 x 86) + (0.050 x 61)] / 0.970
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2009 by Autodesk, Inc. v6.066

Hyd. No. 8

Basin C

Hydrograph type = SCS Runoff
Storm frequency = 100 yrs
Time interval = 1 min
Drainage area = 24.220 ac
Basin Slope = 0.0 %
Tc method = TR55
Total precip. = 3.69 in
Storm duration = Type II-75 1min.cds

Peak discharge = 66.94 cfs
Time to peak = 6.28 hrs
Hyd. volume = 177,547 cuft
Curve number = 83*
Hydraulic length = 0 ft
Time of conc. (Tc) = 34.40 min
Distribution = Custom
Shape factor = 484

* Composite (Area/CN) = [(2.810 x 98) + (20.890 x 81) + (0.240 x 90) + (0.280 x 73)] / 24.220
As of the date of preparation of this disclosure statement, the jurisdictional governmental agency responsible for reviewing and providing an opinion to this portion of the proposed subdivision has not provided Dona Ana County with that opinion. Should one be provided in the future and prior to subdivision recordation, it shall be attached herein.
May 29, 2012

Mr. Jonathan Kesler
845 N. Motel Blvd.
Las Cruces, NM 88007

RE: Orchard Estates Subdivision

Dear Mr. Kesler,

The appropriate engineers of the New Mexico Department of Transportation have reviewed the submitted material on the above referenced development and do not have any further comments or concerns.

If there are any questions or further information needed you may contact me at (505) 827-5249 or by email at jeremy.lujan@state.nm.us.

Sincerely,

Jeremy Lujan
Property Asset Management Agent

FILE #: 1709
APPENDIX H

ROAD MAINTENANCE AGREEMENT

ACCESS ROAD EASEMENT
Road Maintenance Agreement

Orchard Estates, Phase I, II, III, IV, & V

This Road Maintenance Agreement, between Preferred Insurance Services Inc., whose address is 817 West Aldaz Drive, Anthony, New Mexico 88002 and _______________________________________________, is made in Las Cruces, Dona Ana County, New Mexico and is entered into as of the date owner signs this Agreement.

1. Recital.

Owner is the owner of certain real property located at Orchard Estates Phase I, II, III, IV and V, located in Dona Ana County, New Mexico. Being Part of U.S.R.S. tract 25-69 and also situated in Section 16, Township 26 South, Range 3 East, N.M.P.M. of the U.S.R.S. Surveys. Pursuant to County ordinances, regulations and other applicable laws, the owner is required to construct and maintain certain roadways facilities on and/or leading to the property, and the parties wish to enter into this agreement to establish the obligations and responsibilities of the parties.

2. Description and Construction of Roadway Facilities.

The Subdivider, as required by Dona Ana County Subdivision Regulations, shall construct the following “Roadway” within the property and/or roadways linking the development to the nearest county or state maintained roads at Subdivider’s sole expense in accordance with the standards, plans and specifications approved by the County. The Roadway is more particularly described in the attached Exhibit A. The subdivider shall not permit the roadway facilities to constitute a hazard to the health or safety of the general public.


All lot owners shall maintain the roadways at Lot Owner’s cost and only within their property. Roadways shall be in accordance with the approved construction, grading and drainage plans.

4. County’s Right of Entry.

The County has the right to enter upon the property at any time and perform whatever inspection of the roadway facilities it deems appropriate, without liability to the owner.

5. Demand for Removal, Construction or Repair.

The County may send written notice (Notice) to the owner requiring the owner to construct, to remove or repair the roadway Facility within 60 Days of receipt of the Notice as provided in Section 11, and the owner shall comply with the requirements of the Notice. The owner shall perform all the required work by the deadline, at the owner’s sole expense.

6. Failure to Perform by Owner and Emergency Work by County.

If the owner fails to comply with the terms of the Notice by the deadline, or the County determines that an emergency condition exists, the County may perform the work itself. The County may assess the owner for the cost of the work and for any other expenses or damages that result from owner’s failure to perform. The owner agrees to promptly pay the County the amount assessed. If the owner fails to pay the County within thirty (30) days after the County gives the owner written notice of the
amount due, the County may impose a lien against owner’s property for the total resulting amount plus interest.

7. **Liability of County for Repair after Notice or as a Result of Emergency.**
   The County shall not be liable to the owner for any damages resulting from the County’s repair, removal or maintenance following notice to the owner as required in this Agreement or in an emergency situation, unless the damages are the result of reckless conduct or gross negligence of the County, subject to provisions of the New Mexico Tort Claims Act.

8. **Indemnification.**
   A. As a part of the consideration for this Agreement, subject to the provisions of the New Mexico Tort Claims Act and all other applicable New Mexico laws, the County does not agree to save owner harmless from any liability that may arise from owner’s use or misuse of the roadway and the property.
   B. The owner hereby agrees to hold harmless, indemnify and defend Dona Ana County, its officers, agents and employees from and against any and all liability, suits, actions, claims, damages, costs of defense and fees arising out of or resulting from the owner’s and/or any of his employee’s, agent’s, or officer’s conduct, performance, act(s), errors or omission(s), relating in any manner whatsoever to this Agreement.

9. **Cancellation of Agreement.**
   This Agreement may be canceled and owner’s obligation released by the County by mailing to the owner notice of the County’s intention to record a Cancellation and Release with the Dona Ana County Clerk. The Cancellation and Release shall be effective thirty (30) days of mailing the notice to the owner unless a later date is stated in the notice or the Cancellation and Release. After the effective date, the County will record the Cancellation and Release with the Dona Ana County Clerk.

10. **Assessment.**
    Nothing in this Agreement shall be construed to relieve the owner, his heirs, assigns, transferees and successors from an assessment against owner’s property for improvements to the property under a duly authorized and approved Special Assessment District or applicable law. The Parties specifically agree that the value of the roadway will not reduce the amount assessed by the County.

11. **Notice.**
    For the purpose of giving formal written notice to the owner, owner’s address is:

    Notice may be given to the owner, either in person or by mailing the notice by regular U.S. mail, postage paid. Notice will be considered to have been received by the owner within six(6) days after the notice is mailed if there is no actual evidence of receipt. The owner may change owner’s address by giving written notice of the change by certified mail, return receipt requested, to the Dona Ana County Transportation Department, 845 N Motel Blvd, Las Cruces, New Mexico 88007.
12. **Term.**
   This agreement shall continue until terminated by the County pursuant to Section 9 above.

13. **Binding on Lot Owner’s Property.**
   The Agreement and obligations of the lot owner set forth herein shall be binding on lot owner, his/her heirs, assigns, transferees and successors and on-lot owner’s property and shall constitute covenants running with the lot owner’s property until released by the County.

14. **Entire Agreement.**
   This Agreement contains the entire agreement of the parties and supersedes any and all other agreements or understandings, oral or written, whether previous to the execution hereof or contemporaneous herewith.

15. **Construction and Severability.**
   If any part of this Agreement is held to be invalid or unenforceable by a court of competent jurisdiction, the remainder of the Agreement will remain valid and enforceable.

16. **Captions.**
   The captions to the sections or paragraph of this Agreement are not part of this Agreement and will not affect the meaning or construction of any of its provisions.

17. **Acknowledgment by Lot Owner (Buyer).**
   By signing this form, the lot owner (buyer) acknowledges the lot location and their responsibility for the proportional share of the maintenance costs in accordance with the ratio of the total number of lots owned divided by the total number of lots within the subdivision.
LOT OWNER (Buyer)

By: ____________________________________________

Dated: ____________________________________________

(STATE OF NEW MEXICO)

ss

(COUNTY OF DONA ANA)

The foregoing instrument was acknowledged before me on this ______ day of ___________ , 20____

by (name of person signing): ________________________________________________________________

(Title of capacity, for instance, “President” or Owner): __________________________________________

of (name of the entity that owns the property if other than individual signing, for instance, the name of
the corporation, partnership or joint venture): ____________________________________________________

Notary Public: ________________________________________________________________

SUBDIVIDER (Seller)

By: ____________________________________________

Dated: ____________________________________________

(STATE OF NEW MEXICO)

ss

(COUNTY OF DONA ANA)

The foregoing instrument was acknowledged before me on this ______ day of ___________ , 20____

by (name of person signing): ________________________________________________________________

(Title of capacity, for instance, “President” or Owner): __________________________________________

of (name of the entity that owns the property if other than individual signing, for instance, the name of
the corporation, partnership or joint venture): ____________________________________________________

Notary Public: ________________________________________________________________
A Site Threshold Assessment (STH) is required of all developing or redeveloping properties that directly or indirectly access a state highway.

## Site Threshold Assessment (STH)

### Permit Applicant

- **Applicant Name:** Eugene. 
- **Business Name:** 
- **Business Address:** 900 West Joy Drive Anthony, NM 88021

### Site Description

#### Development Type

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<th>Parcel Size (ac)</th>
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<tr>
<td>Convenience/Gas</td>
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<tr>
<td>Other</td>
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</tbody>
</table>

23 Lots

The STH examines existing roadway volumes and anticipated site trip generation for the purpose of determining if additional analyses are required. If the site characteristics and the trip generation estimate for a proposed development do not satisfy the requirements for a STA or a TIA as determined by the District Traffic Engineer, the STH should be approved and the traffic study requirement for the proposed development will be complete. If additional analysis is required based on the results of the STH, the District Traffic Engineer should indicate to the applicant the level of analysis that is required.

### Existing Roadway Data

- **Highway No. Name:** Almeda Road
- **Highway ADT:** 158
- **Number of Lanes (two-way):** 2
- **Site Mile Post:** U/A
- **Count Year:** 2010
- **Func. Class.:** Minor Rural

#### Trip Generation

<table>
<thead>
<tr>
<th>Category</th>
<th>daytime AM</th>
<th>daytime PM</th>
</tr>
</thead>
<tbody>
<tr>
<td>AM Peak Hour Trips</td>
<td>Enter: 15</td>
<td>Exit: 5</td>
</tr>
<tr>
<td>PM Peak Hour Trips</td>
<td>Enter: 12</td>
<td>Exit: 7</td>
</tr>
</tbody>
</table>

### Exceeds Threshold:

- **Y or N:** Y

If Yes, is a STA or TIA Required?

- **Thresholds:**
  - STA: 23 to 99 peak-hour total trips and more than 1,000 vehicles per lane per day on adjacent highway
  - TIA: 100 or more peak-hour total trips

### Other Requirement Basis / DTE Comments:

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*FORM STH*

February 2002