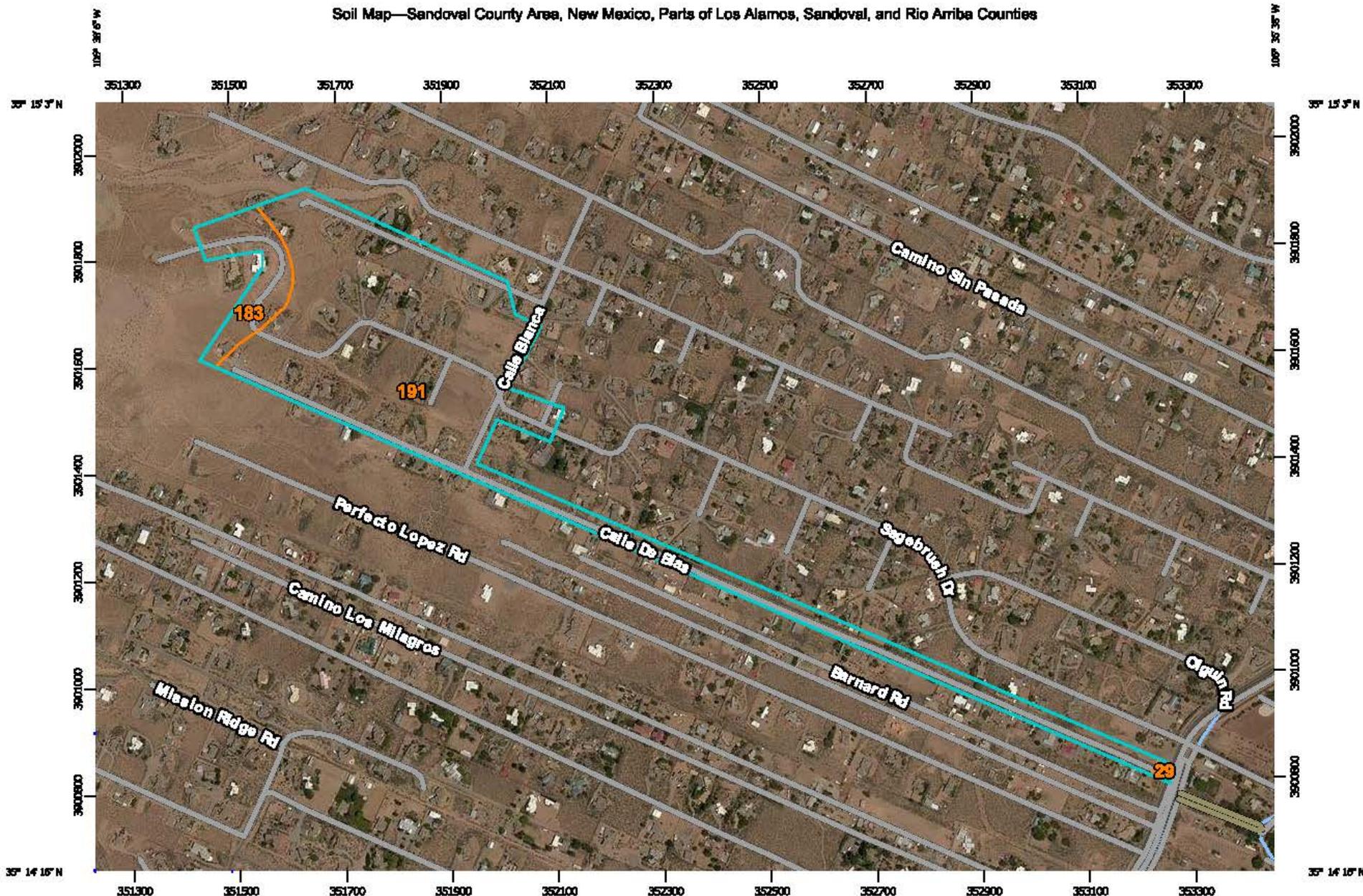
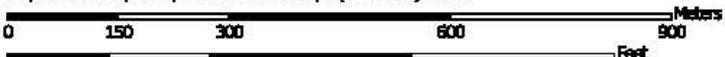

APPENDIX C

SUPPORTING INFORMATION

Soil Map—Sandoval County Area, New Mexico, Parts of Los Alamos, Sandoval, and Rio Arriba Counties



Map Scale: 1:10,200 if printed on A landscape (11" x 8.5") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 13N WGS84



MAP LEGEND

Area of Interest (AOI)			Spoil Area
	Area of Interest (AOI)		Stony Spot
Soils			Very Stony Spot
	Soil Map Unit Polygons		Wet Spot
	Soil Map Unit Lines		Other
	Soil Map Unit Points		Special Line Features
Special Point Features		Water Features	
	Blowout		Streams and Canals
	Borrow Pit	Transportation	
	Clay Spot		Rails
	Closed Depression		Interstate Highways
	Gravel Pit		US Routes
	Gravelly Spot		Major Roads
	Landfill		Local Roads
	Lava Flow	Background	
	Marsh or swamp		Aerial Photography
	Mine or Quarry		
	Miscellaneous Water		
	Perennial Water		
	Rock Outcrop		
	Saline Spot		
	Sandy Spot		
	Severely Eroded Spot		
	Sinkhole		
	Slide or Slip		
	Sodic Spot		

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Sandoval County Area, New Mexico, Parts of Los Alamos, Sandoval, and Rio Arriba Counties
 Survey Area Data: Version 9, Sep 25, 2014

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: May 15, 2014—May 17, 2014

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.

Map Unit Legend

Sandoval County Area, New Mexico, Parts of Los Alamos, Sandoval, and Rio Arriba Counties (NM656)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
29	Trail loamy sand, 0 to 1 percent slopes	0.3	0.4%
183	Sheppard loamy fine sand, 8 to 15 percent slopes	6.3	9.8%
191	Sheppard loamy fine sand, 3 to 8 percent slopes	57.4	89.7%
Totals for Area of Interest		63.9	100.0%

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

Soil Rating Polygons

-  Not prime farmland
-  All areas are prime farmland
-  Prime farmland if drained
-  Prime farmland if protected from flooding or not frequently flooded during the growing season
-  Prime farmland if irrigated
-  Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season
-  Prime farmland if irrigated and drained
-  Prime farmland if irrigated and either protected from flooding or not frequently flooded during the growing season

-  Prime farmland if subsoiled, completely removing the root inhibiting soil layer
-  Prime farmland if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60
-  Prime farmland if irrigated and reclaimed of excess salts and sodium
-  Farmland of statewide importance
-  Farmland of local importance
-  Farmland of unique importance
-  Not rated or not available

Soil Rating Lines

-  Not prime farmland
-  All areas are prime farmland
-  Prime farmland if drained

-  Prime farmland if protected from flooding or not frequently flooded during the growing season
-  Prime farmland if irrigated
-  Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season
-  Prime farmland if irrigated and drained
-  Prime farmland if irrigated and either protected from flooding or not frequently flooded during the growing season
-  Prime farmland if subsoiled, completely removing the root inhibiting soil layer
-  Prime farmland if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60

-  Prime farmland if irrigated and reclaimed of excess salts and sodium
-  Farmland of statewide importance
-  Farmland of local importance
-  Farmland of unique importance
-  Not rated or not available

Soil Rating Points

-  Not prime farmland
-  All areas are prime farmland
-  Prime farmland if drained
-  Prime farmland if protected from flooding or not frequently flooded during the growing season
-  Prime farmland if irrigated
-  Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season

-  Prime farmland if irrigated and drained
-  Prime farmland if irrigated and either protected from flooding or not frequently flooded during the growing season
-  Prime farmland if subsoiled, completely removing the root inhibiting soil layer
-  Prime farmland if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60
-  Prime farmland if irrigated and reclaimed of excess salts and sodium
-  Farmland of statewide importance
-  Farmland of local importance
-  Farmland of unique importance
-  Not rated or not available

Water Features

MAP INFORMATION

 Streams and Canals

Transportation

 Rails

 Interstate Highways

 US Routes

 Major Roads

 Local Roads

Background

 Aerial Photography

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Sandoval County Area, New Mexico, Parts of Los Alamos, Sandoval, and Rio Arriba Counties
Survey Area Data: Version 9, Sep 25, 2014

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: May 15, 2014—May 17, 2014

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.

Farmland Classification

Farmland Classification— Summary by Map Unit — Sandoval County Area, New Mexico, Parts of Los Alamos, Sandoval, and Rio Arriba Counties (NM656)				
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
29	Trail loamy sand, 0 to 1 percent slopes	Not prime farmland	0.3	0.4%
183	Sheppard loamy fine sand, 8 to 15 percent slopes	Not prime farmland	6.3	9.8%
191	Sheppard loamy fine sand, 3 to 8 percent slopes	Not prime farmland	57.4	89.7%
Totals for Area of Interest			63.9	100.0%

Description

Farmland classification identifies map units as prime farmland, farmland of statewide importance, farmland of local importance, or unique farmland. It identifies the location and extent of the soils that are best suited to food, feed, fiber, forage, and oilseed crops. NRCS policy and procedures on prime and unique farmlands are published in the "Federal Register," Vol. 43, No. 21, January 31, 1978.

Rating Options

Aggregation Method: No Aggregation Necessary

Tie-break Rule: Lower

Jessica Small

From: Parrish, Christopher M SPA <Christopher.M.Parrish@usace.army.mil>
Sent: Monday, May 04, 2015 9:32 AM
To: Jessica Small; sgrollman@larkinm.com
Subject: RE: [WARNING: A/V UNSCANNABLE][EXTERNAL] Request for preliminary jurisdictional determination
Attachments: NWP 43 Summary 2012.pdf; NWP PCN Checklist Fillable- FINAL.pdf; app_b_approved_jd_form.pdf

Jessica and Steve:

I have reviewed the information provided with the request for a Preliminary Jurisdictional Determination (PJD) for an ephemeral arroyo located within the proposed Corrales Salce Basin Project. Under a PJD a Regulatory Project Manager can determine that there are/may be waters of the United States within the project area, but cannot make an isolated water call—that requires an Approved Jurisdictional Determination (AJD). An AJD must be requested in writing by the applicant and involves a more extensive analysis regarding flow path and downstream connectivity to a Traditional Navigable Water (i.e. the Rio Grande). This effort includes fieldwork and appropriate documentation (see attached form). It also requires consultation with the Environmental Protection Agency. It should also be noted that an AJD is appealable, but a PJD is not. Once completed, AJDs are valid for 5 years.

Based on the information provided, the arroyo in-question may be an isolated water. Regardless, the AJD process would need to be completed to make that determination. However, if the applicant elects to proceed under a PJD, then the project could likely be verified under an existing Nationwide Permit (NWP)—depending on the type (i.e. loss of waters/no loss of waters?) and amount of temporary and permanent impacts below the ordinary high water mark. I have attached the summary for NWP 43 for Stormwater Management Facilities for your review.

Let me know what direction the applicant elects to take in response to this information and/or if you have additional questions.

cp

Chris M. Parrish
U.S. Army Corps of Engineers
Albuquerque District
Senior Regulatory Project Manager/Archaeologist
4101 Jefferson Plaza, NE
Albuquerque, NM 87109
Office: 505.342.3374
Fax: 505.344.1415

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http://corpsmapu.usace.army.mil/cm_apex/f?p=136:4:0

For more information about the Regulatory Program please visit:
<http://www.spa.usace.army.mil/Missions/RegulatoryProgramandPermits.aspx>

-----Original Message-----

From: Jessica Small [mailto:jsmall@marroninc.com]

Sent: Friday, May 01, 2015 2:14 PM

To: Parrish, Christopher M SPA

Subject: [WARNING: A/V UNSCANNABLE][EXTERNAL] Request for preliminary jurisdictional determination

Good afternoon Mr. Parrish,

The Village of Corrales proposes to construct stormwater facilities in order to prevent area roadway and residential property flooding. FEMA is the lead agency for the project due to the project funding source. One unnamed arroyo is located within the project area, and FEMA has requested that a preliminary jurisdictional determination be made by your agency regarding the arroyo. A description of the proposed project and project mapping are attached.

We are contacting you as you are the person we typically work with for projects in Sandoval County. If you are not the correct person to contact, please let me know. If you have any questions or would like more information regarding the project, please feel free to contact myself or the project engineer, Steve Grollman at The Larkin Group. Mr. Grollman can be reached by phone at 505-259-2170 or by email at sgrollman@larkinm.com.

Thank you,

Jessica

JessicaSmall



7511 Fourth Street NW
Albuquerque, NM 87107
tel 505.898.8848
fax 505.897.7847
www.marroninc.com

Your Vision. Our Expertise. Exceptional Results.

May 1, 2015

Mr. Christopher Parrish
Senior Regulatory Project Manager/Archaeologist
U.S. Army Corps of Engineers
Albuquerque District
4101 Jefferson Plaza, NE
Albuquerque, NM 87109

RE: Preliminary Jurisdictional Determination - Corrales Salce Basin Project

Dear Mr. Parrish,

The Village of Corrales, New Mexico proposes to install stormwater improvements within the Village limits to alleviate flooding of existing streets and homes. The proposal includes construction of many individual elements scattered throughout the Salce Park neighborhood and would use Federal Emergency Management Agency (FEMA) funding. An environmental assessment is being prepared for review by FEMA personnel. A detailed project description and project area mapping are attached to this correspondence for your reference.

One ephemeral arroyo would be minimally impacted by task 14 of the proposed project, which would involve the installation of a stormwater pipe from the arroyo connecting to a retention pond. This arroyo is unnamed and currently does not have a connection to the Rio Grande or another waterway tributary to the Rio Grande.

It is likely that this arroyo was historically tributary to the nearby Arroyo de los Montoyas. It is also possible that this arroyo was not present historically but represents a recent pathway for stormwater flows resulting from modifications to the landscape in upstream areas. Housing development within the project area began during the 1990s. Flows pass through this area and through a constructed swale into a small detention pond where the flow path dissipates.

Flows are permanently retained within the pond, which would be expanded as part of the proposed project, which is designed to prevent overflow from spreading as sheetflow over neighborhood streets and homes.

As no surface or ground connection from the unnamed arroyo to the Rio Grande or tributary arroyo is present, the Village requests a preliminary jurisdictional determination from your office with regard to

the need to obtain permit coverage under Section 404 of the Clean Water Act for the construction of an outfall pipe from the arroyo channel to the detention pond.

Thank you very much for your attention to this matter. If you have questions or require additional information, please contact myself or the project engineer, Mr. Steve Grollman at The Larkin Group. Mr. Grollman can be contacted by phone at 505-259-2170, or by email at sgrollman@larkinnm.com. If you determine a field review of the project area would be helpful, please let us know. Mr. Grollman and I would be happy to arrange a field visit with you.

Sincerely,

Jessica Small
NEPA/Cultural Resources Specialist
Marron and Associates, Inc.
7511 Fourth Street NW
Albuquerque, NM 87107
505-898-8848
jsmall@marroninc.com

Detailed Project Description: Corrales Salce Basin Project

Under the Proposed Action Alternative, storm drain pipe would be installed, retention ponds would be constructed, and some roadways would be re-graded and re-paved in Corrales, New Mexico. The project area is located in northwestern Corrales in the vicinity of Calle de Blas, Calle Blanca, and Sagebrush Drive. The project has been divided into the following 14 tasks to be constructed in various sequences (see task drawings in Appendix A and figures in Appendix B).

Task 1 involves the installation of 200 linear feet of 60-inch diameter pipe in an existing drainage channel between Loma del Oro and Salce Park North. This task would connect the tasks 6 and 14 infrastructure. The majority of task 1 occurs on private property for which the Village seeks to obtain 12.5-foot wide easements from each of the two private property owners.

Task 2 involves the installation of 200 linear feet of 24-inch diameter pipe along the boundary between two residential lots on Calle de Blas, west of Calle Blanca and Salce Park South. This task would connect the tasks 3 and 4 infrastructure. The majority of task 2 occurs on private property for which the Village seeks to obtain 12.5-foot wide easements from each of the two private property owners.

Task 3 involves the enlargement of an existing drain pond to hold stormwater runoff north of Calle de Blas, and west of Salce Park South. This pond would provide storage for flows that currently wash out properties on Calle de Blas and Sagebrush Drive. Water directed through task 2 would flow into this pond. This task also connects with tasks 12 and 13. Task 3 occurs on Village property.

Task 4 involves the re-grading and re-paving of Calle de Blas between the cul-de-sac at the west terminus of the road and Calle Blanca to the east. The paving would create an inverted crown in the center of the road that would convey stormwater from the roadway asphalt to the shoulder within the right-of-way in order to prevent damage to adjacent properties. This task would connect with several other tasks including task 2. This task is 1,750 long. Task 4 occurs within Village property.

Task 5 involves installation of 70 linear feet of 18-inch diameter pipe and reconstruction of a roadway section to direct flows away from homes to a Village-owned pond on the northeast corner of Sagebrush Drive and Griego Court. This task does not connect with any other task. Task 5 occurs within Village property.

Task 6 involves the creation of a drain pond within the Salce Park North property to hold stormwater runoff. The proposed pond would be approximately 200 feet long by 300 feet wide and 12 feet deep. The pond would provide storage for flows that currently wash out properties on Loma del Oro and Calle Blanca, and flood roadways. An overflow channel along the west edge of Calle Blanca would also be excavated. This task would connect with tasks 7 and 14. Task 6 is located on Village property.

Task 7 involves the enlargement of an existing drain pond south of Sagebrush Drive and west of Calle Blanca to hold stormwater runoff. The enlarged pond would provide storage for flows that currently wash

out properties at the intersection of Sagebrush Drive and Calle Blanca. This task would connect with task 6. Task 7 is located on Village property.

Task 8 involves the enlargement of existing drain pond on the north side of Calle de Blas in the right-of-way to hold stormwater runoff. The enlarged pond would provide storage for flows that currently wash out properties on Calle de Blas and flood the roadway. This task would connect with tasks 9, 10, and 11. Task 8 is located within Village property.

Task 9 involves the re-grading and re-paving of Calle de Blas between Calle Blanca to the west and the existing cul-de-sac, approximately 1000 feet east near the beginning of task 8. The existing roadway is cracked and broken in various locations, and does not transport storm runoff well. The paving would create an inverted crown in the center of the road that would convey stormwater from the roadway asphalt to the shoulder within the right-of-way to prevent damage to adjacent properties. This task is an extension of task 4, and would connect with tasks 8 and 11. Task 9 is located within Village property.

Task 10 involves the creation of a drain pond to hold stormwater on the north side of Calle de Blas extending from the east end of task 8, approximately 4000 feet to Loma Larga. The pond would provide storage for flows that currently wash out properties on Calle de Blas and flood the roadway. This task is an extension of task 8, and would connect with task 11. Task 10 is located within Village property.

Task 11 involves the re-grading and re-paving of Calle de Blas from the east end of task 9, approximately 4000 feet east to Loma Larga. The existing roadway is cracked and broken in various locations, and does not transport storm runoff well. The paving would create a super-elevated cross section that would drain runoff into the drain pond created by task 10. This task is an extension of task 9, and would connect with task 10. Task 11 is located within Village property.

Task 12 involves re-grading the south “loop” of Sagebrush Drive to direct flows into ponds on the south side of the roadway. This task is approximately 500 feet long. It connects with tasks 3 and 13. Task 12 is located on Village property.

Task 13 involves re-grading the north “loop” of Sagebrush Drive to direct flows into ponds that would be created on the south side of the roadway. The roadway portion of this task connects with task 12. The pond portion of this task is an extension of task 3. Task 13 occurs within Village property.

Task 14 involves the installation of pipe within the right-of-way of Loma del Oro extending from task 1 to the east into the arroyo to the west. Task 14 would convey high flows from the arroyo through pipe into task 1 and to be detained in the task 6 pond. Currently, high flows in the arroyo flood properties and roadways where the arroyo channel connects with at-grade private properties less than 0.2 mile from the west end of task 14. Task 14 is located within Village property with one easement required.

The project includes a total of 2.80 miles of linear segments for pipe installation and roadway grading and paving. The proposed project is located on land owned by the Village of Corrales and private land. The Village is currently in the process of obtaining easements for the portions of the project on private land. The total amount of disturbance would be approximately 11.60 acres.

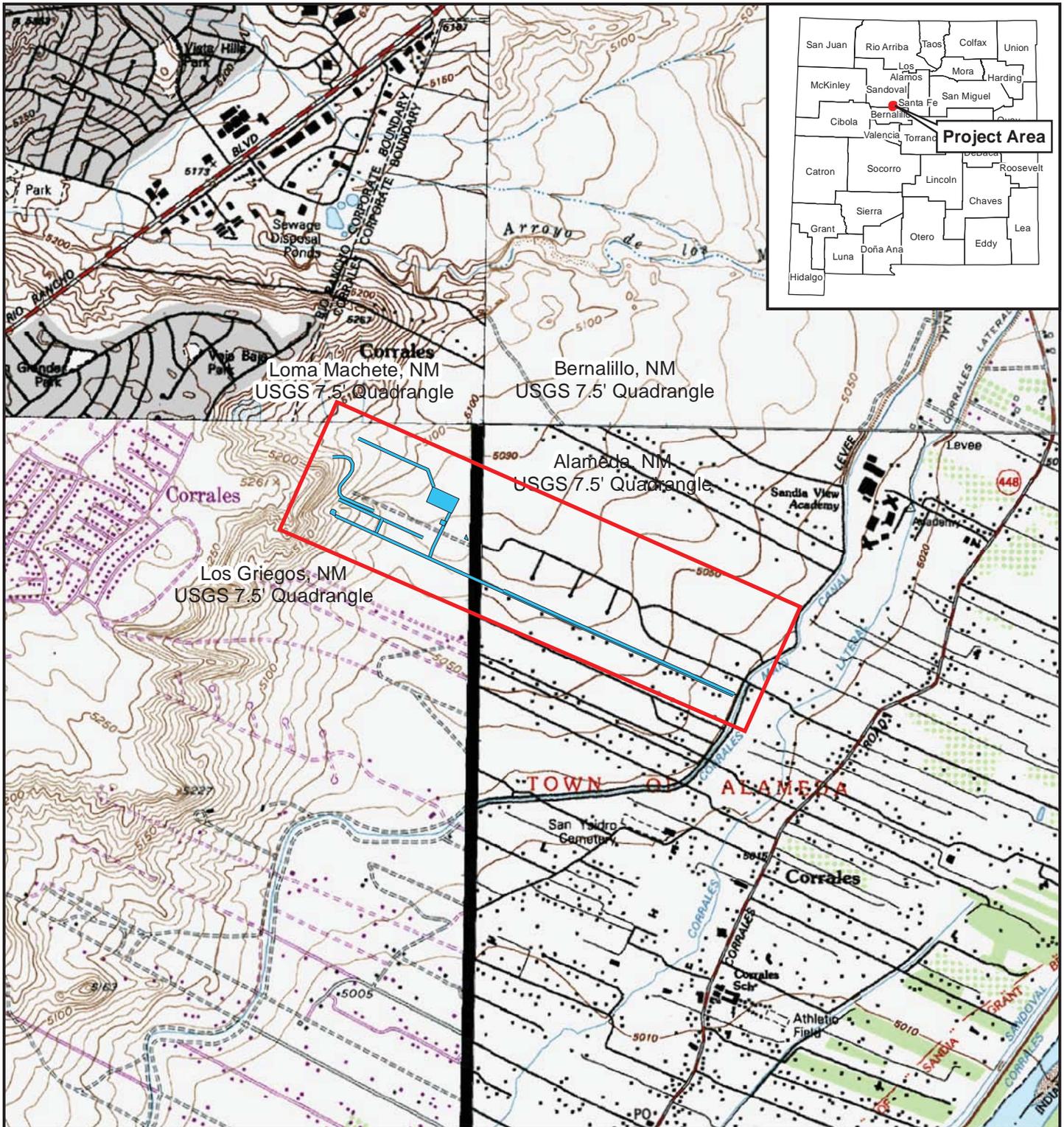
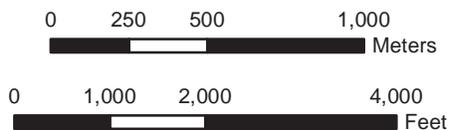


Figure 1
Project Location Map

 Project Area

Alameda (1990) and Los Griegos
(Photorevised 1967 and 1972), NM
USGS 7.5' Quadrangles

Town of Alameda Grant
Sandoval County, New Mexico



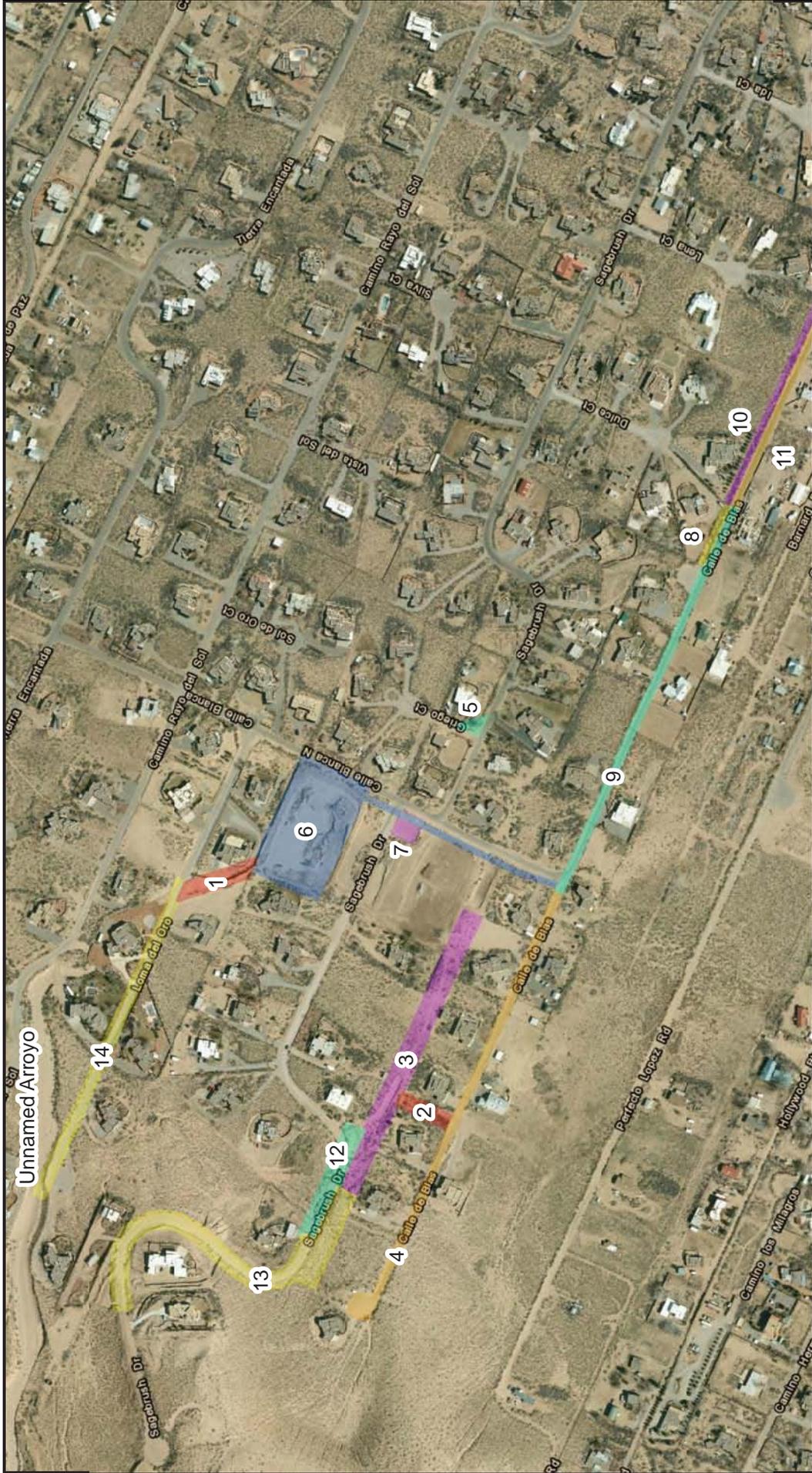
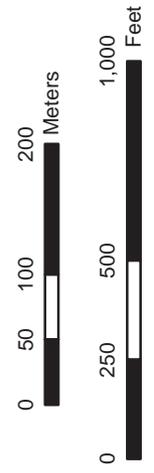
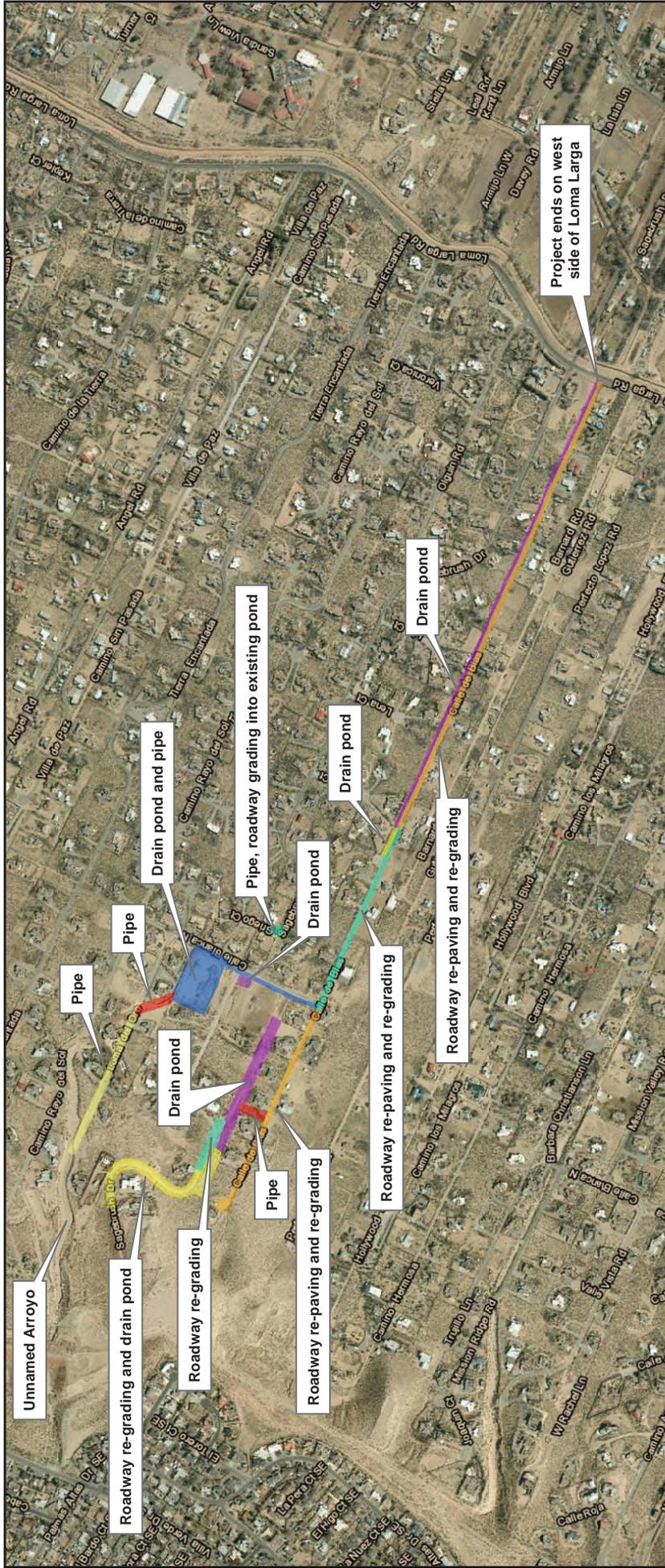


Figure 2
Project Tasks Map

Alameda (1990) and Los Griegos
(Photorevised 1967 and 1972), NM
USGS 7.5' Quadrangles

Town of Alameda Grant
Sandoval County, New Mexico





Alameda (1990) and Los Griegos
 (Photorevised 1967 and 1972), NM
 USGS 7.5' Quadrangles

Town of Alameda Grant
 Sandoval County, New Mexico



Figure 3
Project Tasks Map



MAP SCALE 1" = 500'



NFIP

PANEL 2107D

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP
SANDOVAL COUNTY,
NEW MEXICO
AND INCORPORATED AREAS

PANEL 2107 OF 2225
 (SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
CORRALES, VILLAGE OF	350094	2107	D
RIO RANCHO, CITY OF	350146	2107	D
SANDOVAL COUNTY, UNINCORPORATED AREAS	350055	2107	D

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.



MAP NUMBER
35043C2107D

MAP REVISED
MARCH 18, 2008

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

ZONE X

Village of Corrales
350094



ZONE X

W. PERFECTO LOPEZ RD

BERNARD RD RD

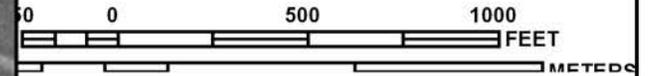
SAGEBRUS

HOLLYWOOD BLVD

GUTIERREZ RD



MAP SCALE 1" = 500'



NFIP

PANEL 2126D

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP
SANDOVAL COUNTY,
NEW MEXICO
AND INCORPORATED AREAS

PANEL 2126 OF 2225
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
CORRALES, VILLAGE OF	350094	2126	D

Notice to User: The Map Number shown below should be used when placing map orders, the Community Number shown above should be used on insurance applications for the subject community.

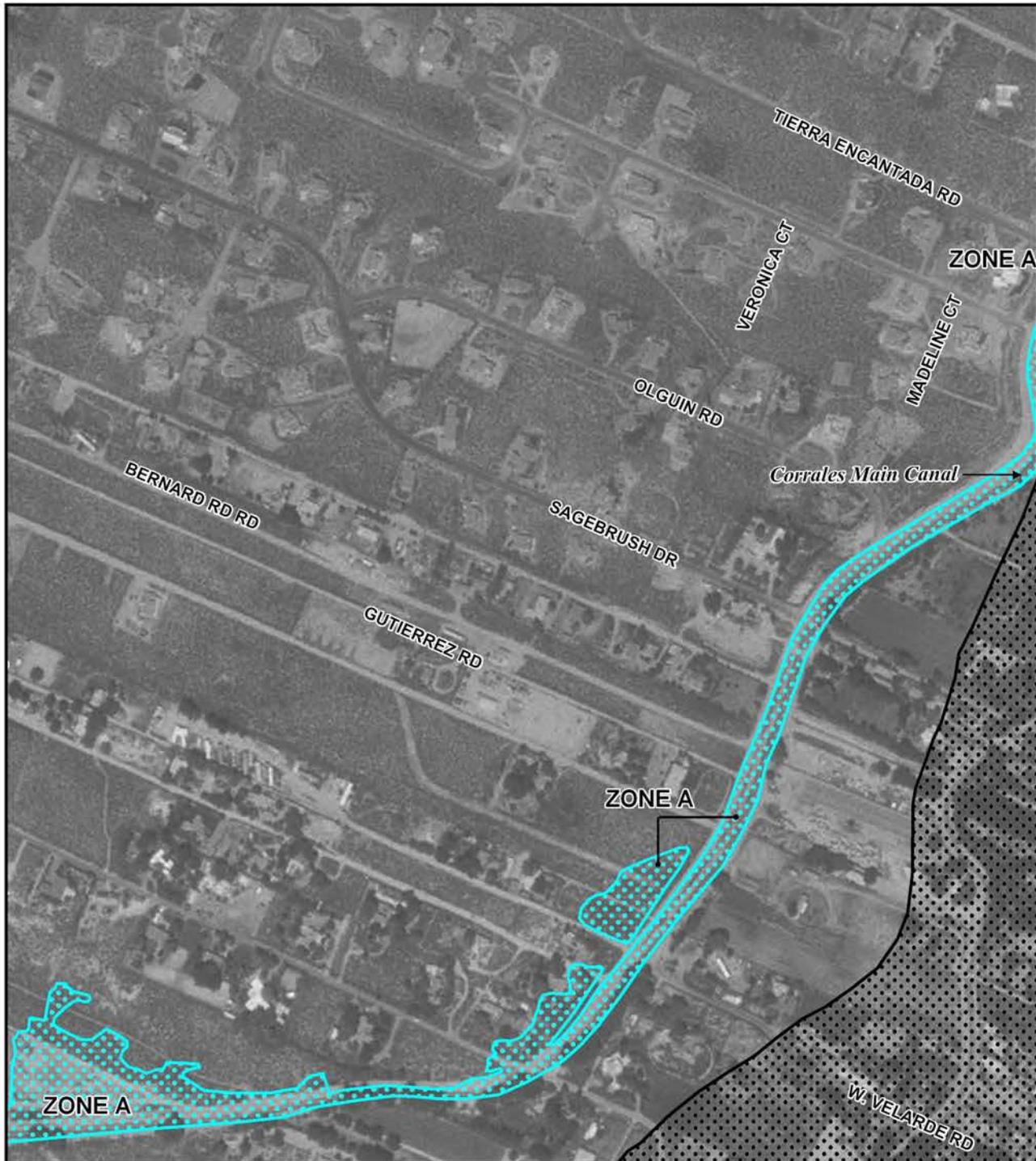


MAP NUMBER
35043C2126D

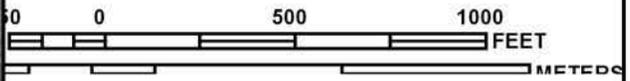
MAP REVISED
MARCH 18, 2008

Federal Emergency Management Agency

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MAP SCALE 1" = 500'



NFIP

PANEL 2126D

FIRM
FLOOD INSURANCE RATE MAP
SANDOVAL COUNTY,
NEW MEXICO
AND INCORPORATED AREAS

PANEL 2126 OF 2225
 (SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
CORRALES, VILLAGE OF	350094	2126	D

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.



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35043C2126D

MAP REVISED
MARCH 18, 2008

Federal Emergency Management Agency

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FEMA

March 18, 2015

Jeff Pappas, PhD
State Historic Preservation Officer
Attention Bob Estes, Archaeologist
Department of Cultural Affairs
Bataan Memorial Building
407 Galisteo Street, Suite 236
Santa Fe, New Mexico 87501

RE: Section 106 Review Consultation,
FEMA HMGP-DR-4070-NM
Village of Corrales Drainage Project
No Historic Properties Affected

Dear Dr. Pappas:

Project Description

The Village of Corrales (Applicant) is requesting Hazard Mitigation Grant Program (HMGP) funding from the Federal Emergency Management Agency (FEMA) to improve the village's stormwater infrastructure within the Village of Corrales in Sandoval County, New Mexico. FEMA is initiating Section 106 review for the proposed undertaking described below.

The Applicant is proposing to improve the village's stormwater infrastructure. Under the Proposed Action Alternative, storm drain pipe would be installed, retention ponds would be constructed, and some roadways would be re-graded and re-paved in Corrales, New Mexico. The project area is located in northwestern Corrales in the vicinity of Calle de Blas, Calle Blanca, and Sagebrush Drive. The project has been divided into the following 14 tasks to be constructed in various sequences.

Task 1 involves the installation of 200 linear feet of 60-inch diameter pipe in an existing drainage channel between Loma del Oro and Salce Park North. This task would connect the tasks 6 and 14 infrastructure.

Task 2 involves the installation of 200 linear feet of 24-inch diameter pipe along the boundary between two residential lots on Calle de Blas, west of Calle Blanca and Salce Park South. This task would connect the tasks 3 and 4 infrastructure.

Task 3 involves the enlargement of an existing drainage pond to hold stormwater runoff north of Calle de Blas, and west of Salce Park South. This pond would provide storage for flows that currently wash out properties on Calle de Blas and Sagebrush Drive. Water directed through task 2 would flow into this pond. This task also connects with tasks 12 and 13.

Task 4 involves the re-grading and re-paving 1,750 linear feet of Calle de Blas between the cul-de-sac at the west terminus of the road and Calle Blanca to the east. The paving would create an inverted

crown in the center of the road that would convey stormwater from the roadway asphalt to the shoulder within the right-of-way in order to prevent damage to adjacent properties. This task would connect with several other tasks including task 2.

Task 5 involves installation of 70 linear feet of 18-inch diameter pipe and reconstruction of a roadway section to direct flows away from homes to a Village-owned pond on the northeast corner of Sagebrush Drive and Griego Court. This task does not connect with any other task..

Task 6 involves the creation of a drainage pond within the Salce Park North property to hold stormwater runoff. The proposed pond would be approximately 200 feet long by 300 feet wide and 12 feet deep. The pond would provide storage for flows that currently wash out properties on Loma del Oro and Calle Blanca, and flood roadways. An overflow channel along the west edge of Calle Blanca would also be excavated. This task would connect with tasks 7 and 14.

Task 7 involves the enlargement of an existing drainage pond south of Sagebrush Drive and west of Calle Blanca to hold stormwater runoff. The enlarged pond would provide storage for flows that currently wash out properties at the intersection of Sagebrush Drive and Calle Blanca. This task would connect with task 6.

Task 8 involves the enlargement of an existing drainage pond on the north side of Calle de Blas in the right-of-way to hold stormwater runoff. The enlarged pond would provide storage for flows that currently wash out properties on Calle de Blas and flood the roadway. This task would connect with tasks 9, 10, and 11.

Task 9 involves the re-grading and re-paving of Calle de Blas between Calle Blanca to the west and the existing cul-de-sac, approximately 1,000 feet east near the beginning of task 8. The existing roadway is cracked and broken in various locations, and does not transport storm runoff well. The paving would create an inverted crown in the center of the road that would convey stormwater from the roadway asphalt to the shoulder within the right-of-way to prevent damage to adjacent properties. This task is an extension of task 4, and would connect with tasks 8 and 11.

Task 10 involves the creation of a drainage pond to hold stormwater on the north side of Calle de Blas extending from the east end of task 8, approximately 4000 feet to Loma Larga. The pond would provide storage for flows that currently wash out properties on Calle de Blas and flood the roadway. This task is an extension of task 8, and would connect with task 11.

Task 11 involves the re-grading and re-paving of Calle de Blas from the east end of task 9, approximately 4000 feet east to Loma Larga. The existing roadway is cracked and broken in various locations, and does not transport storm runoff well. The paving would create a super-elevated cross section that would drain runoff into the drain pond created by task 10. This task is an extension of task 9, and would connect with task 10.

Task 12 involves re-grading the south "loop" of Sagebrush Drive to direct flows into ponds on the south side of the roadway. This task is approximately 500 feet long. It connects with tasks 3 and 13.

Task 13 involves re-grading the north "loop" of Sagebrush Drive to direct flows into ponds that would be created on the south side of the roadway. The roadway portion of this task connects with task 12. The pond portion of this task is an extension of task 3.

Task 14 involves the installation of pipe within the right-of-way of Loma del Oro extending from task 1 to the east into the arroyo to the west. Task 14 would convey high flows from the arroyo through pipe into task 1 and to be detained in the task 6 pond. Currently, high flows in the arroyo flood properties and roadways where the arroyo channel connects with at-grade private properties less than 0.2 mile from the west end of task 14.

The project includes a total of 2.80 miles of linear segments for pipe installation and roadway grading and paving. All components of the project would occur within an area of approximately 11.60 acres.

Area of Potential Effect

36 CFR § 800.4 requires federal agencies to define the Area of Potential Effect (APE). Site locations are provided in Table 1 below and attached aerial imagery defines limits of the APE associated with this undertaking.

Table 1: UTM/GPS locations, Start and Stop

TASK	UTM/GPS START	UTM/GPS STOP
1	35.248185, -106.627566 (13S 351924 3901780)	35.247635, -106.627480 (13S 351930 3901719)
2	35.246207, -106.629762 (13S 351720 3901564)	35.245727, -106.630016 (13S 351697 3901510)
3	35.245678, -106.627719 (13S 351906 3901501)	-
4	35.246483, -106.63220 (13S 351500 3901597)	35.244557, -106.626811 (13S 351987 3901376)
5	35.245594, -106.625728 (13S 352087 3901490)	-
6	35.246861, -106.627019 (13S 351972 3901632)	-
7	35.246225, -106.626853 (13S 351985 3901561)	-
8	35.243508, -106.623644 (13S 352272 3901254)	-
9	35.244763, -106.627377 (13S 351935 3901399)	35.243642, -106.624325 (13S 352211 3901270)
10	35.241517, -106.618083 (13S 352775 3901026)	-
11	35.243376, -106.623427 (13S 352291 3901240)	35.239580, -106.612817 (13S 353251 3900804)
12	35.247070, -106.631579 (13S 351556 3901662)	35.246487, -106.6300095 (13S 351698 3901595)
13	35.248214, -106.63115 (13S 351598 3901788)	-
14	35.248611, -106.627931 (13S 351891 3901828)	-

Identification of Historic Properties

36 CFR 800.4(b) (1) of these regulations states that federal agency officials shall make a “reasonable and good faith effort” to identify historic properties.

A cultural records file search in the Archaeological Records Management Section (ARMS) of the New Mexico State Historic Preservation Division (HPD) through the New Mexico Department of Cultural Affairs, New Mexico State Historic Preservation Office (SHPO), was conducted for previously recorded archaeological sites and surveys on March 16, 2015.

On November 13, 2014, Marron and Associates (Marron) conducted a cultural resource survey within the Area of Potential Effect (APE) for the proposed project (NMCRIS Activity #132220). Marron conducted an intensive (100%) cultural resource survey of approximately 11.47 acres of project area including both

pedestrian and block survey. One previously recorded site (LA 114733) and six isolated occurrences were updated or recorded during this activity. The site, LA 114733, first recorded by Marron in 1966, is an artifact scatter of unknown cultural affiliation. During the November, 2014 survey, no evidence of the site was identified within the APE of the proposed project. LA 114733 was determined not eligible for inclusion in the National Register of Historic Places (NRHP) by the Historic Preservation Division (HPD).

It was determined that the six isolated occurrences do not meet the criteria for eligibility to the NRHP and no further treatment was recommended.

Findings of Effects

Based on information gathered through this review process, FEMA has determined **No Historic Properties Affected** as a result of the undertaking. We request concurrence with this determination. An overview map and ARMS map showing the project location are attached.

This undertaking will include the following condition should an inadvertent discovery occur:

In the event that archeological deposits, including any Native American pottery, stone tools, bones, or human remains, are uncovered, the project shall be halted and the applicant shall stop all work immediately in the vicinity of the discovery and take reasonable measures to avoid or minimize harm to the finds. All archeological findings will be secured and access to the sensitive area restricted. If unmarked graves or human remains are present on private or state land, compliance with the New Mexico Cultural Properties Act (Article 18, Section 6, Subsection 11.2 (18-6-11.2), NMSA 1978, also known as the Unmarked Burial Statute is required. OEM will require the applicant to stop work immediately in the vicinity of the discovery. OEM will immediately notify FEMA, and law enforcement agencies of the discovery, which shall notify the Office of the Medical Investigator (OMI) and the SHPO. OMI shall evaluate the remains for medicolegal significance with minimal disturbance of the remains. OMI will terminate the discovery of any non-medicolegal human remains to the SHPO, who shall proceed pursuant to the Unmarked Burial Statute and its implementing regulations found at 4.10.11 NMAC. Pursuant of CFR of 36 CFR part 800.2(c)(2)(i), FEMA will also contact all appropriate tribes. For any questions for human remains on state or private land, contact State Archeologist, Bob Estes, (505) 827-4225, Fax (505) 827-6338, bob.estes@state.nm.us.

Your timely review of this project is greatly appreciated. If you wish to designate another point of contact for this and any future consultations, please feel free to communicate to us your decision. Should you need additional information please contact Emily J. Benz, FEMA Archaeologist, at 940-218-0883 or e-mail emily.j.benz@fema.dhs.gov

Sincerely,



Kevin Jaynes
Regional Environmental Officer
FEMA Region 6

Enclosures

Aerial Map of Location
NM ARMS Map

Weir, Dorothy

From: Benz, Emily
Sent: Monday, April 20, 2015 7:55 AM
To: Weir, Dorothy
Subject: FW: HMGP-DR 4070

Concurrence from SHPO, but they have requested a copy of the Marron and Associates report and associated documents. Can we get this from the applicant?

-Emily

From: Estes, Bob, DCA [<mailto:Bob.Estes@state.nm.us>]
Sent: Friday, April 17, 2015 5:36 PM
To: Benz, Emily
Subject: HMGP-DR 4070

OFFICIAL RESPONSE OF THE NEW MEXICO STATE HISTORIC PRESERVATION OFFICER (SHPO)

Dear Ms. Benz,

On behalf of the SHPO I have completed a review of the materials submitted of the proposed Village of Corrales Drainage Project (FEMA HMGP-DR 4070; HPD log 101064).

The review shows that the project area was surveyed for cultural resources by Marron and Associate (NMCRIS 132220) in anticipation of SHPO consultation for the project. The SHPO appreciates FEMA's efforts to identify and evaluate historic properties before consulting on the undertaking.

Please forward copy of the report, and the accompanying NIAF and LA forms for SHPO review of the determination of eligibility for LA 114733, and for our records at ARMS.

The SHPO concurs that the project will have no effect to historic properties.

If you have any questions or comments, please feel free to call me directly at 505-827-4225 or email me.

Sincerely,

Bob Estes Ph.D.
HPD Staff Archaeologist

From: [Jimmy Arterberry](#)
To: [Abreu, Hector](#)
Subject: RE: FEMA-HMGP-DR-4070-NM
Date: Monday, March 23, 2015 8:42:16 AM

In response to your request, the above referenced project has been reviewed by staff of this office. Based on the information provided and a search within the Comanche Nation Site Files, we have determined that there are ***no properties*** affected by the proposed undertaking.

If you require additional information or are in need of further assistance, please contact this office at (580) 595-9960 or 9618.

This review is performed in order to identify and preserve the Comanche Nation and State's cultural heritage, in conjunction with the State Historic Preservation Office.

Jimmy W. Arterberry, THPO
Comanche Nation
#6 SW 'D' Avenue, Suite C
Lawton, Oklahoma 73502
(580) 595-9960 or 9618
(580) 595-9733 FAX

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From: Abreu, Hector [hector.abreu@fema.dhs.gov]
Sent: Wednesday, March 18, 2015 11:26 AM
To: Jimmy Arterberry
Subject: FEMA-HMGP-DR-4070-NM

Jimmy,

Attached please see Section 106 consultation letter for the referred project. If you have any questions please feel free to call me.

Thanks

Hector M. Abreu, AIC PA
EHP Tribal Liaison
Environmental and Historic Preservation (EHP) Branch
FEMA Region 6
800 North Loop 288
Denton, TX 76209
Tel: 940.383.7221
Cel: 940.435.5382
Fax: 940-297-0152
Hector.abreu@fema.dhs.gov

From: [Phillip Shelley](#)
To: [Abreu, Hector](#)
Cc: [Julian T. Garcia](#); [Tim Mencheo](#); [Joseph Pena](#)
Subject: RE: FEMA-HMGP-DR-4070-NM
Date: Thursday, March 19, 2015 9:28:33 AM

Dear Mr. Abreu,

The Pueblo of Santa Ana's THPO concurs with the determination of "No Historic Properties Affected" and have no issue with the proposed FEMA project provided that:

"If ground disturbing activities occur during construction, applicant will monitor ground disturbance and if any potential archaeological resources area discovered, will immediately cease construction in that area and notify the State and FEMA"

Thank you

Phillip H. Shelley, PhD, RPA
Tribal Historic Preservation Officer
Pueblo of Santa Ana
02 Dove Road,
Santa Ana Pueblo, NM 87004
Phillip.Shelley@santaana-nsn.gov
505-280-5478

From: Abreu, Hector [mailto:hector.abreu@fema.dhs.gov]
Sent: Wednesday, March 18, 2015 10:47 AM
To: Phillip Shelley
Subject: FEMA-HMGP-DR-4070-NM

Dr. Shelley,
Attached please see Section 106 consultation letter for the referred project. If you have any questions please feel free to call me.

Thanks

Hector M. Abreu, AIC PA
EHP Tribal Liaison
Environmental and Historic Preservation (EHP) Branch
FEMA Region 6
800 North Loop 288
Denton, TX 76209
Tel: 940.383.7221
Cel: 940.435.5382
Fax: 940-297-0152

Hector.abreu@fema.dhs.gov

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Thank you.