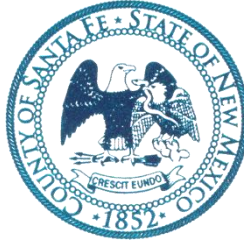


**Henry P. Roybal**  
Commissioner, District 1

**Anna Hansen**  
Commissioner, District 2

**Robert A. Anaya**  
Commissioner, District 3



**Anna T. Hamilton**  
Commissioner, District 4

**Ed Moreno**  
Commissioner, District 5

**Katherine Miller**  
County Manager

November 22, 2017

**SANTA FE COUNTY**  
**IFB# 2018-0143-PW/KE**  
**CONSTRUCTION AT PINON HILLS**  
**ALL WEATHER CROSSING**

**ADDENDUM #1**

Dear Proponents,

This addendum is issued to reflect the following immediately. It shall be the responsibility of interested Offerors to adhere to any changes or revisions to the IFB as identified in this Addendum No. 1. This documentation shall become permanent and made part of the departmental files.

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**ATTACHMENTS:**

Pre-Proposal Sign In Sheet (1) attached  
New Bid Sheets (3) attached  
Summary of Quantities (1) attached  
SWPPP (Storm Water Pollution Prevention Plan Information) (1) attached

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*On November 14, 2017 Santa Fe County held the pre-bid conference for the above referenced Invitation for Bid (IFB). Listed below are questions asked via email*

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QUESTION 1: Do we need a SWPP permit?? No bid item or plan sheet for SWPP??

**ANSWER 1: A Storm Water Pollution Prevention Plan (SWPPP) shall be required. A SWPPP Information Sht. No. 2-6 and Pay Item No. 603281 – SWPPP Plan Preparation and Maintenance has been added. See attached Sheet 2-6 and the revised Bid Proposal.**

QUESTION 2: Can we get a written commitment from the utility companies to remove or relocate the possible utilities that interfere with box culvert construction, or are they held to a strict schedule like the contractor is for a drop dead completion date??

**ANSWER 2: See the Notice to Contractors “Coordination with Utility Companies” for project specific construction requirements. The Notice to Contractors references additional requirements in the NMDOT Specification Section “105.6 – Cooperation with Utilities”.**

QUESTION 3: Since this project is being bid and built to NMDOT specs, does the GC and all subs have to be a pre-qualified approved NMDOT Contractor ?? Is NMDOT going to inspect the work ?

ANSWER 3: Pre-qualification of Bidders is required per Specification Section 102.2. The work will be inspected by Santa Fe County representatives.

QUESTION 4: Can we get a copy of the sign-in sheet from the pre-bid conference?

ANSWER 4: See Attached.

QUESTION 5: In the Bidding Documents on Drawing number 607 – 01 – ¼ - There Are Drawings concerning Barbed Wire and Woven Wire Fencing. But There Are No Items Listed on the Bid Sheets for Fencing.

ANSWER 5: Item 607004 – Barbed Wire Fence 4' has been added to the Summary of Quantities and Bid Proposal, included with this Addendum. See Sht. 3-1 for additional information.

QUESTION 6: In the Bidding Documents on Drawing Number 667 – 01 – 1 / 2 -These Are Drawings That Have To Do with Mailboxes. On the Bid Sheets There Are No Bid Items concerning Mailbox Installations. Could You Please Clarify?

ANSWER 6: The Drawing Number 667-01-1/2 is included to provide installation instructions for the existing mailboxes, identified on Sht. 3-1, to be removed and reset by the Contractor. The costs to remove and reset the mailboxes is included in payment for Item 601000 - Removal of Structures and Obstructions and no separate measurement or payment will be made for this work.

QUESTION 7: Trying to find the Geo-tech Report for Pinon Hill Crossing project. Is this something we can have access to?

ANSWER 7: No Geotechnical Report was prepared for the project since the structure is a concrete box culvert.

---

CLARIFICATION 1: The bottom slab of the Concrete Box Culvert is to be buried beneath the finished grade of the channel. Excavation to construct the concrete box culvert per the limits shown on Drawings 210-01-1/1 shall be paid for under Item 210002 – Major Structure Excavation. The backfill required to bury the bottom slab and reestablishing the channel grade through the box culvert, in addition to the backfill limits shown on Drawing 210-01-1/1, shall be paid for under Item 210003 – Major Structure Backfill.

CLARIFICATION 2: Santa Fe County is in the process of submitting a Pre-Construction Notification to the United States Army Corps of Engineers (USACE) for Clean Water Act Section 401 and 404 permitting under the Nationwide Permit 14. As specified in Section 107.14.3, the responsibility for applying and obtaining the permits will be that of Santa Fe County while the

responsibility for complying with the terms and conditions will be that of the Contractor. See Section 107.14.3 for additional information. The Contractor shall be required to comply with the Nationwide Permit 14 General Conditions and the New Mexico Regional Conditions. The USACE Nationwide Permit 14 general permit requirements are available for review at the following website address:

<http://www.spa.usace.army.mil/Portals/16/docs/civilworks/regulatory/NWP/2017%20NWP/NW14-Linear%20Transporation%20Projects.pdf?ver=2017-03-15-132811-187> . The 2017 Regional Conditions to Nationwide Permits in the State of New Mexico are available at the following website:

<http://www.spa.usace.army.mil/Portals/16/docs/civilworks/regulatory/Regional%20Conditions/2017%20Regional%20Conditions/Final%202017%20Regional%20Conditions%20New%20Mexico.pdf?ver=2017-03-16-143928-257> . The work require to comply with the terms and conditions of the permits shall be included in Item No. 603281 – SWPPP Plan Preparation and Maintenance and and no separate measurement or payment will be made for this work.

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Please add this Addendum #1 to the original bid documents and refer to bid documents, hereto as such. This and all subsequent addenda will become part of any resulting contract documents and have effects as if original issued. All other unaffected sections will have their original interpretation and remain in full force and effect.

Bidders are reminded that any questions or need for clarification must be addressed to Karen K. Emery, Senior Procurement Specialist at [kkemery@santafecountynm.gov](mailto:kkemery@santafecountynm.gov).

Pre Bid Meeting  
IFB# 2018-0143-PW/KE  
CONSTRUCTION AT PINON HILLS  
ALL WEATHER CROSSING  
November 14, 2017  
2:00 PM (MST)

NAME	COMPANY	TELEPHONE	E-MAIL ADDRESS
Carl Martinez	Vital Consulting Group	505-917-4017	carl@vitalgroup.net
Kevin L. Hartman	EMCO of Santa Fe	(505) 423-2995	khartman@emco.com
Todd Ferguson	EMCO of Santa Fe	(505) 490-0663	tferguson@emco.com
Don Edwards	Star Paving	505-710-7292	safety@starpaving.com
Herman Chavez	Kimco	505 946 4141	Herman@KimcoNM.com
STEVE DAVIS	KLPO	(505) 362 0515	estimating@kimcoNM.com
Matthew Lucero	Kimco Const. Inc	505 869-9311	MLucero@KimcoNM.com
Gary Echeagaray	GT Envision, LLC	505-471-9981	gary@envision.com
Rolando Molina	HO Construction	505 288 2231	hocomstruction@msn.com
Steve Peterson	Constructors ASSN	505 470 9943	steve.cainm@gmail.com
Justin Reese	SFC		
Richard Roth	Louis Berger	505. 395. 2196	rrottoe@louisberger.com
Mark Olsen	COMPASS	505 350 6738	mark@compass-ec.com
Karen Emery	SFC Purchasing	505-992-6759	KKEmery@SantaFeCountyNM.Gov

## PINON HILLS - BID PROPOSAL

LINE	ITEM #	DESCRIPTION	UNIT	APPROX. QUANTITY
1	201000	CLEARING AND GRUBBING	L.S.	L.S.
		Unit Bid Price (Written in WORDS)	Unit Bid Price (Written in NUMBERS)	Total Item Bid Price (Written in NUMBERS)
		Dollars and Cents	Dollars and Cents	Dollars and Cents
2	203000	UNCLASSIFIED EXCAVATION	CU YD	310
		Unit Bid Price (Written in WORDS)	Unit Bid Price (Written in NUMBERS)	Total Item Bid Price (Written in NUMBERS)
		Dollars and Cents	Dollars and Cents	Dollars and Cents
3	203100	BORROW	CU YD	1980
		Unit Bid Price (Written in WORDS)	Unit Bid Price (Written in NUMBERS)	Total Item Bid Price (Written in NUMBERS)
		Dollars and Cents	Dollars and Cents	Dollars and Cents
4	207000	SUBGRADE PREPARATION	SQ YD	2100
		Unit Bid Price (Written in WORDS)	Unit Bid Price (Written in NUMBERS)	Total Item Bid Price (Written in NUMBERS)
		Dollars and Cents	Dollars and Cents	Dollars and Cents
5	210002	MAJOR STRUCTURES EXCAVATION	CU YD	460
		Unit Bid Price (Written in WORDS)	Unit Bid Price (Written in NUMBERS)	Total Item Bid Price (Written in NUMBERS)
		Dollars and Cents	Dollars and Cents	Dollars and Cents
6	210003	MAJOR STRUCTURES BACKFILL	CU YD	380
		Unit Bid Price (Written in WORDS)	Unit Bid Price (Written in NUMBERS)	Total Item Bid Price (Written in NUMBERS)
		Dollars and Cents	Dollars and Cents	Dollars and Cents
7	213000	OBLITERATE OLD ROAD	MILE	0.1
		Unit Bid Price (Written in WORDS)	Unit Bid Price (Written in NUMBERS)	Total Item Bid Price (Written in NUMBERS)
		Dollars and Cents	Dollars and Cents	Dollars and Cents
8	303140	BASE COURSE 4"	SQ YD	1948
		Unit Bid Price (Written in WORDS)	Unit Bid Price (Written in NUMBERS)	Total Item Bid Price (Written in NUMBERS)
		Dollars and Cents	Dollars and Cents	Dollars and Cents
9	416000	MINOR PAVING	SQ YD	1810
		Unit Bid Price (Written in WORDS)	Unit Bid Price (Written in NUMBERS)	Total Item Bid Price (Written in NUMBERS)
		Dollars and Cents	Dollars and Cents	Dollars and Cents
10	511030	STRUCTURAL CONCRETE, CLASS AA	CU YD	315
		Unit Bid Price (Written in WORDS)	Unit Bid Price (Written in NUMBERS)	Total Item Bid Price (Written in NUMBERS)
		Dollars and Cents	Dollars and Cents	Dollars and Cents
11	540060	REINFORCING BARS GRADE 60	LBS	78750
		Unit Bid Price (Written in WORDS)	Unit Bid Price (Written in NUMBERS)	Total Item Bid Price (Written in NUMBERS)
		Dollars and Cents	Dollars and Cents	Dollars and Cents

## PINON HILLS - BID PROPOSAL

LINE	ITEM #	DESCRIPTION	UNIT	APPROX. QUANTITY
12	601000	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	L.S.	L.S.
		Unit Bid Price (Written in WORDS)	Unit Bid Price (Written in NUMBERS)	Total Item Bid Price (Written in NUMBERS)
		Dollars and Cents	Dollars and Cents	Dollars and Cents
13	602000	RIPRAP CLASS A	CU YD	57
		Unit Bid Price (Written in WORDS)	Unit Bid Price (Written in NUMBERS)	Total Item Bid Price (Written in NUMBERS)
		Dollars and Cents	Dollars and Cents	Dollars and Cents
14	603221	CHECK DAM TYPE II	LIN. FT	60
		Unit Bid Price (Written in WORDS)	Unit Bid Price (Written in NUMBERS)	Total Item Bid Price (Written in NUMBERS)
		Dollars and Cents	Dollars and Cents	Dollars and Cents
15	603262	COMPOSTED MULCH SOCKS	LIN. FT	275
		Unit Bid Price (Written in WORDS)	Unit Bid Price (Written in NUMBERS)	Total Item Bid Price (Written in NUMBERS)
		Dollars and Cents	Dollars and Cents	Dollars and Cents
16	603281	SWPPP PLAN PREPARATION AND MAINTENANCE	L.S.	L.S.
		Unit Bid Price (Written in WORDS)	Unit Bid Price (Written in NUMBERS)	Total Item Bid Price (Written in NUMBERS)
		Dollars and Cents	Dollars and Cents	Dollars and Cents
17	606001	SINGLE FACE W-BEAM GUARDRAIL	LIN. FT	250
		Unit Bid Price (Written in WORDS)	Unit Bid Price (Written in NUMBERS)	Total Item Bid Price (Written in NUMBERS)
		Dollars and Cents	Dollars and Cents	Dollars and Cents
18	606053	END TREATMENT W-BEAM GUARDRAIL	EACH	4
		Unit Bid Price (Written in WORDS)	Unit Bid Price (Written in NUMBERS)	Total Item Bid Price (Written in NUMBERS)
		Dollars and Cents	Dollars and Cents	Dollars and Cents
19	607004	BARBED WIRE FENCE 4'	LIN. FT	195
		Unit Bid Price (Written in WORDS)	Unit Bid Price (Written in NUMBERS)	Total Item Bid Price (Written in NUMBERS)
		Dollars and Cents	Dollars and Cents	Dollars and Cents
20	618000	TRAFFIC CONTROL MANAGEMENT	L.S.	L.S.
		Unit Bid Price (Written in WORDS)	Unit Bid Price (Written in NUMBERS)	Total Item Bid Price (Written in NUMBERS)
		Dollars and Cents	Dollars and Cents	Dollars and Cents
21	621000	MOBILIZATION	L.S.	L.S.
		Unit Bid Price (Written in WORDS)	Unit Bid Price (Written in NUMBERS)	Total Item Bid Price (Written in NUMBERS)
		Dollars and Cents	Dollars and Cents	Dollars and Cents
22	632020	CLASS C SEEDING	ACRE	1.5
		Unit Bid Price (Written in WORDS)	Unit Bid Price (Written in NUMBERS)	Total Item Bid Price (Written in NUMBERS)
		Dollars and Cents	Dollars and Cents	Dollars and Cents

## PINON HILLS - BID PROPOSAL

LINE	ITEM #	DESCRIPTION	UNIT	APPROX. QUANTITY
23	701000	PANEL SIGNS	SQ FT	66
		Unit Bid Price (Written in WORDS)	Unit Bid Price (Written in NUMBERS)	Total Item Bid Price (Written in NUMBERS)
		Dollars and Cents	Dollars and Cents	Dollars and Cents
24	701100	STEEL POST AND BASE POST FOR ALUMINUM PANEL SIGNS	LIN. FT	140
		Unit Bid Price (Written in WORDS)	Unit Bid Price (Written in NUMBERS)	Total Item Bid Price (Written in NUMBERS)
		Dollars and Cents	Dollars and Cents	Dollars and Cents
25	702810	TRAFFIC CONTROL DEVICES FOR CONSTRUCTION	L.S.	L.S.
		Unit Bid Price (Written in WORDS)	Unit Bid Price (Written in NUMBERS)	Total Item Bid Price (Written in NUMBERS)
		Dollars and Cents	Dollars and Cents	Dollars and Cents
26	704000	RETROREFLECTORIZED PAINTED MARKINGS	LIN. FT	4200
		Unit Bid Price (Written in WORDS)	Unit Bid Price (Written in NUMBERS)	Total Item Bid Price (Written in NUMBERS)
		Dollars and Cents	Dollars and Cents	Dollars and Cents
27	801000	CONSTRUCTION STAKING BY THE CONTRACTOR	L.S.	L.S.
		Unit Bid Price (Written in WORDS)	Unit Bid Price (Written in NUMBERS)	Total Item Bid Price (Written in NUMBERS)
		Dollars and Cents	Dollars and Cents	Dollars and Cents
TOTAL BID AMOUNT (EXCLUDING NM GROSS RECEIPTS TAX)				
(Written in WORDS)			DOLLARS AND CENTS	
NEW MEXICO GROSS RECEIPTS TAX @ 7.00%				
(Written in WORDS)			DOLLARS AND CENTS	
TOTAL BID AMOUNT (Including NM Gross Receipts Tax)				
(Written in WORDS)			DOLLARS AND CENTS	

File: G:\Cn\SF\2622.03 - Pinon Hills\00\_Plans\00\_Sheets\01-Sheets\01-4\_Summary.DWG Date: Nov 21, 2017 1:52pm



LOUIS BERGER  
2019 GALISTEO ST. SUITE M-1  
SANTA FE, NEW MEXICO

PROJECT NO.	SHEET NO.
0132	1-4

SUMMARY OF QUANTITIES

ITEM NO.	ITEM DESCRIPTION	UNIT	PROJECT TOTALS	
			ESTIMATE	FINAL
201000	CLEARING AND GRUBBING	L.S.	L.S.	
203000	UNCLASSIFIED EXCAVATION	CU.YD.	310	
203100	BORROW	CU.YD.	1,980	
207000	SUBGRADE PREPARATION	SQ.YD.	2,100	
210002	MAJOR STRUCTURE EXCAVATION	CU.YD.	460	
210003	MAJOR STRUCTURE BACKFILL	CU.YD.	380	
213000	OBLITERATE OLD ROAD	MILE	0.10	
303140	BASE COURSE 4"	SQ.YD.	1,948	
416000	MINOR PAVING	SQ.YD.	1,810	
511030	STRUCTURAL CONCRETE CLASS AA	CU.YD.	315	
540060	REINFORCING BARS GRADE 60	LBS	78,750	
601000	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	L.S.	L.S.	
602000	RIPRAP CLASS A	CU.YD.	57	
603221	CHECK DAM TYPE II	LIN.FT.	60	
603262	COMPOSTED MULCH SOCK	LIN.FT.	275	
603281	SWPPP PLAN PREPARATION AND MAINTENANCE	L.S.	L.S.	
606001	SINGLE FACE W-BEAM GUARDRAIL	LIN.FT.	250	
606053	END TREATMENT W-BEAM GUARDRAIL	EACH	4	
607004	BARBED WIRE FENCE 4'	LIN.FT.	195	
618000	TRAFFIC CONTROL MANAGEMENT	L.S.	L.S.	
621000	MOBILIZATION	L.S.	L.S.	
632020	CLASS C SEEDING	ACRE	1.5	
701000	PANEL SIGNS	SQ.FT.	66	
701100	STEEL POST AND BASE POST FOR ALUMINUM PANEL SIGNS	LIN.FT.	140	
702810	TRAFFIC CONTROL DEVICES FOR CONSTRUCTION.	L.S.	L.S.	
704000	RETROREFLECTORIZED PAINTED MARKINGS	LIN.FT.	4,200	
801000	CONSTRUCTION STAKING BY THE CONTRACTOR	L.S.	L.S.	



NO.	DESCRIPTION	DATE	BY
REVISIONS (OR CHANGE NOTICES)			

SANTA FE COUNTY  
PINON HILLS ALL WEATHER CROSSING  
  
SUMMARY OF QUANTITIES

STORM WATER POLLUTION PREVENTION PLAN INFORMATION



LOUIS BERGER  
2019 GALISTEO ST. SUITE M-1  
SANTA FE, NEW MEXICO

PROJECT NO.	SHEET NO.
0132	2-6

NOI INPUTS

NMDOT PROJECTS REQUIRE ELECTRONIC NOI SUBMISSION- PAPER SUBMISSION REQUIRES PRIOR APPROVAL.

PERMIT NUMBER:  
NMR100000 STATE OF NEW MEXICO, EXCEPT INDIAN COUNTRY  
NMR101000 INDIAN COUNTRY WITHIN THE STATE OF NEW MEXICO, EXCEPT NAVAJO RESERVATION LANDS THAT ARE COVERED UNDER ARIZONA PERMIT AZ100001 AND UTE MOUNTAIN RESERVATION LANDS THAT ARE COVERED UNDER COLORADO PERMIT COR100001.

OPERATOR NAME: SANTA FE COUNTY

POINT OF CONTACT: PROJECT MANAGER

NOI PREPARED BY: PROJECT MANAGER

PROJECT / SITE NAME: SANTA FE COUNTY PROJECT NUMBER (PN) 0132

PROJECT / SITE ADDRESS: CR 70, CALLE CARLA/CALLE SUZANNA, PINON HILLS, SANTA FE COUNTY, NM

LATITUDE: 35.6697° N

LONGITUDE: 106.0520° W

ESTIMATED PROJECT START DATE: TO BE DETERMINED BY PROJECT MANAGER

ESTIMATED PROJECT COMPLETION DATE: TO BE DETERMINED BY PROJECT MANAGER

ESTIMATED AREA TO BE DISTURBED (NEAREST 1/4 ACRE): 1.06 ACRES

TYPE OF CONSTRUCTION: CONC. BOX CULVERT, ROADWAY, EARTHWORK

DEMOLITION OF ANY STRUCTURES, 10,000 SQUARE FEET OR GREATER BUILT OR RENOVATED BEFORE JANUARY 1, 1980? (YES/NO) NO

WAS THE PREDEVELOPMENT LAND USE FOR AGRICULTURE? (YES/NO) NO

COMMENCED EARTH-DISTURBING ACTIVITIES?: YES

PREVIOUS NPDES PERMIT? IF YES, PERMIT NO: NO

MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4): (NAME) N/A

SURFACE WATERS WITHIN 50 FT? (YES/NO) YES

RECEIVING WATER: ARROYO DE LOS FRIJOLES

IMPAIRED WATERS: NO IMPAIRMENT LISTED

IMPAIRED WATERS METHOD: ONLINE CONSULTATION OF NEW MEXICO ENVIRONMENT DEPARTMENT LISTING OF STATEWIDE 303D AND TMDL IMPAIRMENTS.

TIER 2, TIER 2.5, TIER 3 WATERS - (CONSULT 2017 CGP APPENDIX "F")

CHEMICAL TREATMENT INFORMATION - TYPICAL SANTA FE COUNTY PROJECT WILL NOT UTILIZE THESE CHEMICALS

SWPPP CONTACT INFORMATION - PROJECT MANAGER

ENDANGERED SPECIES CRITERIA - (A, B, C, D, E, OR F): CRITERIA 'A'

HISTORIC PRESERVATION - HISTORIC PROPERTIES WILL NOT BE IMPACTED.

THE ENVIRONMENTAL COMMITMENTS WILL INDICATE EXISTENCE OF HISTORIC PROPERTIES. IF HISTORIC PROPERTIES EXIST, THE TSCSP SHEETS CAN SHOW NO EFFECT ON HISTORIC PROPERTIES.

ALL STORMWATER CONTROLS REQUIRE SUBSURFACE DISTURBANCE.

CERTIFICATION: NOI MUST BE CERTIFIED BY "A PRINCIPAL EXECUTIVE OFFICER OR RANKING ELECTED OFFICIAL".

GENERAL NOTES:

1. THE 2012 EDITION OF NMDOT NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) MANUAL AND SECTION 603 – TEMPORARY EROSION AND SEDIMENT CONTROL OF THE 2014 NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION – SHALL BE USED AS MINIMUM REQUIREMENTS TO DEVELOP OR MODIFY THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP).
2. THE NPDES PERMIT NUMBER FOR THE PROJECT OR A COPY OF THE NOTICE OF INTENT (NOI), IF A PERMIT NUMBER HAS NOT YET BEEN ASSIGNED, SHALL BE POSTED AT THE PROJECT SITE OR THE FIELD OFFICE AT ALL TIMES DURING CONSTRUCTION.
3. THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND ALL MAINTENANCE AND INSPECTION REPORTS SHALL BE SIGNED BY A QUALIFIED INSPECTOR ASSIGNED BY THE CONTRACTOR. THE SWPPP AND THE INSPECTION REPORTS SHALL BE AVAILABLE TO EPA REPRESENTATIVES AT ALL TIMES DURING CONSTRUCTION.
4. INFORMATION NEEDED TO COMPLETE THE NOTICE OF INTENT (NOI) IS PROVIDED IN THIS PLAN.
5. THE CONTRACTOR SHALL SPECIFICALLY DEFINE ALL REQUIRED CONTROL MEASURES FOR EACH CONSTRUCTION PHASE, AND SHALL COMPLY WITH THE PROVISIONS OF THE NPDES MANUAL AND THE 2017 CONSTRUCTION GENERAL PERMIT.
6. THE FINAL SEEDING AND REVEGETATION PLAN, ALONG WITH THE MEASURES SHOWN ON THE FINAL STABILIZATION TSCSP SHEETS (IF INCLUDED) SERVE AS THE FINAL SOIL STABILIZATION MANAGEMENT PRACTICE.



11/20/2017

**SOIL LOSS COMPUTATION**

Benchmark: Preconst (check one) Client: PN 0132  
Alternative Treatment: none Location: CR 70, Pinon Hills  
Rainfall Factor (RUSLE): 30 County: Santa Fe  
Soil Name & Text: Chupe-Riverwash complex, G Date: 11/21/2017  
Soil Loss Tolerance (T): 5 t/acyr Field Office: Parviz Eftekhari, R  
Wind Climate Factor: 0.1 Planner: Parviz Eftekhari, R  
RUSLE C factor (field 1): 0.48 Crop Rotation: NONE  
(field 2): 0.48 Existing Undisturbed Vegetative Cover: Grass and Shrubs  
(field 3): 0.48 Mgt. Condition: :  
(field 4): 0.48  
(field 5):  
(field 6):

Type of Land: Rangeland

**WIND EROSION (Mgt. Period Method)** Note: Attach WEQ run  
(Wind erosion field number and size must be filled out to use in other forms of erosion.)

Field (num)	Size (ac)	Climatic C (factor)	Wind I (factor)	Actual Loss (t/acyr)	Ton Ero by Field (t/yr)
1	0.07	0.1			0
2	0.11	0.1			0
3	0.04	0.1			0
4	0.04	0.1			0

**WATER EROSION (RUSLE)-sheet and rill erosion**  $R \times K \times L \times S \times C \times P = A$

Field (num)	Size (ac)	Rainfall R (factor)	Soil K (factor)	Slope S (%)	Length L (ft)	Cover-Mgt LS (factor)	Support Practices P (factor)	Soil Loss A (t/acyr)	Tons by Field (t/yr)
1	0.07	30	0.1	1.30	230	0.15	0.48	1	0.2
2	0.11	30	0.1	2.60	270	0.33	0.48	1	0.5
3	0.04	30	0.1	25.00	14	1.16	0.48	1	1.7
4	0.04	30	0.1	25.00	19	1.30	0.48	1	1.9
								0.0	
								0.0	

**EPHEMERAL GULLY EROSION** (voided area method for the group of fields)  
Rill formula: (top width+bottom width)/2 x Depth = Tons of Soil Loss from each Rill on per Ac bases.

Rill Number:	1	2	3	4	5	6	7	8
Top width (in):								
Bottom width (in):								
Sum (in):								
Average Width (in):								
Average Depth (in):								
Width (in <sup>2</sup> /tons loss):								
Total Loss (tons/ac):	0							
Yrs to Create:								
Tt Loss per Year (t/acyr):	0.0							

\*Based on a 12.5 foot long strip. No. of Ac w/ Gully Ero: Total Tons of Soil Loss: 0.0

**SOIL LOSS COMPUTATION**

Benchmark: Postconst (check one) Client: PN 0132  
Alternative Treatment: Seeding Location: CR 70, Pinon Hills  
Rainfall Factor (RUSLE): 30 County: Santa Fe  
Soil Name & Text: Chupe-Riverwash complex, G Date: 11/21/2017  
Soil Loss Tolerance (T): 5 t/acyr Field Office: Parviz Eftekhari, R  
Wind Climate Factor: 0.1 Planner: Parviz Eftekhari, R  
RUSLE C factor (field 1): 0.48 Crop Rotation: NONE  
(field 2): 0.48 Class "A" Seeding for Entire Disturbed Area  
(field 3): 0.48 Mgt. Condition: :  
(field 4): 0.48  
(field 5):  
(field 6):

Type of Land: Rangeland

**WIND EROSION (Mgt. Period Method)** Note: Attach WEQ run  
(Wind erosion field number and size must be filled out to use in other forms of erosion.)

Field (num)	Size (ac)	Climatic C (factor)	Wind I (factor)	Actual Loss (t/acyr)	Ton Ero by Field (t/yr)
1	0.07	0.1			0
2	0.11	0.1			0
3	0.04	0.1			0
4	0.04	0.1			0

**WATER EROSION (RUSLE)-sheet and rill erosion**  $R \times K \times L \times S \times C \times P = A$

Field (num)	Size (ac)	Rainfall R (factor)	Soil K (factor)	Slope S (%)	Length L (ft)	Cover-Mgt LS (factor)	Support Practices P (factor)	Soil Loss A (t/acyr)	Tons by Field (t/yr)
1	0.07	30	0.1	1.30	230	0.15	0.48	0.6	0.1
2	0.11	30	0.1	2.60	270	0.33	0.48	0.6	0.3
3	0.04	30	0.1	25.00	14	1.16	0.48	0.6	1.1
4	0.04	30	0.1	25.00	19	1.30	0.48	0.6	1.1
								0.0	
								0.0	

**EPHEMERAL GULLY EROSION** (voided area method for the group of fields)  
Rill formula: (top width+bottom width)/2 x Depth = Tons of Soil Loss from each Rill on per Ac bases.

Rill Number:	1	2	3	4	5	6	7	8
Top width (in):								
Bottom width (in):								
Sum (in):								
Average Width (in):								
Average Depth (in):								
Width (in <sup>2</sup> /tons loss):								
Total Loss (tons/ac):	0							
Yrs to Create:								
Tt Loss per Year (t/acyr):	0.0							

\*Based on a 12.5 foot long strip. No. of Ac w/ Gully Ero: Total Tons of Soil Loss: 0.0

6			
5			
4			
3			
2			
1			
NO.	DESCRIPTION	DATE	BY

REVISIONS (OR CHANGE NOTICES)

SANTA FE COUNTY

PINON HILLS ALL WEATHER CROSSING

STORM WATER POLLUTION PREVENTION PLAN (SWPPP) INFORMATION SHEET