

Tres Alamos Community Alliance
- preserving the quality, beauty and safety of our community

Prepared for Board of Supervisors' meeting on March 11, 2025

Introduction, Background History and Specific Issues

Introduction

Tres Alamos Community Alliance (TACA) appeal to the Cochise County Board of Supervisors (BOS).

It would be a serious mistake to assume that anything about this matter is complicated or unique. Please do not make that mistake. In a nutshell, the problems simply amount to:

1. landowner abuse of zoning rules to the detriment of adjoining/nearby neighbors;
2. inexplicably lax enforcement of road weight limit and serious overloads on a two-lane county road;
3. unlawful rearrangement of earth/landscape causing erosion damage to neighboring properties and danger on a public road; and
4. poor performance and behavior by certain county staff and elected officials.

Background History

After dealing with similar serious concerns back in the early 2000s, local residents along N. Ocotillo Road again in early 2024 experienced problems with business/industrial operations at the 2150 Ocotillo Rd. site. The relatively new owner/operator had dramatically increased heavy trucking and other operations at the site. These residents observed, gathered data/evidence and did research to find the operating premise, the relationship with Cochise County, and other factors related to that site. This led to preparation for the filing of several complaints with the county.

Coincidentally, in March 2024, the owner of the site applied for site re-zoning from the original Rural Residential (RU4) to Heavy Industrial. Related explanations identified intended operations/actions incompatible with local conditions and the provisions/limitations stated in the Tres Alamos Area Plan as adopted by Cochise County. Area residents strongly protested the proposed rezoning and provided strong rationale/evidence to support their position. In April 2024 the owner withdrew the rezoning application.

The local residents moved forward by filing the aforementioned multi-faceted complaint with Cochise County. County staff in Development Services tried to simply close the original complaints without proper investigation or action, refused to provide requested information to the complainants, refused to act on any individual matters in the complaint, and told the complainants that the business operation at 2150 N. Ocotillo Rd. was "exempt" from county permitting because it was a mining operation. As an example, the stating of that "exemption" was a complete misrepresentation of fact, as soon proven by evidence from the office of the state mining inspector. That fabrication stands as one glaring example of continual poor behavior by certain county staff throughout this matter.

Introduction, Background, History p.2

The citizens then took the above complaint issues and county staff behaviors to the county administrator who also refused to take any action. So, we complainants then went to the Cochise County Board of Supervisors, but they did not reply to any communications from us. The BOS also refused to create a meeting agenda item to enable TACA to address the problems with the BOS, as we had requested.

Due to all of the above, the citizens prepared and submitted the comprehensive Notice of Claim (NOC) in September, 2024. That NOC provides complete explanations, in specific detail, regarding all egregious actions and needed remedies. Neither the BOS nor any responsible county official ever responded to the NOC.

The citizens who signed that NOC are: Kristin Bidegain, Matthew Bidegain, Cathy Bray, Jennifer Bray, Robert Bray, Robert R. Bray, Eileen Brien, Ashleigh Cubley, Robert Cubley, Cliff Durham, Randy J. Durham, Randolph Durham, Sarah Durham, Terri Durham, Jeremy Fenn, Kayleen Fenn, Maryleta Ganoung, Clayton Goeglein, Andy Hersey, Holly Hersey, Yvonne Mayberry, Zack Mayberry, Amber Parker, Jason Parker, Joseph D. Regnier, Jean Ruiz, Madelyn Walker, Paul Walker

The residents who filed the original complaint items and the NOC are now organized as TACA and speak with that voice before the BOS.

Specific matters for BOS action will be identified in the March 11, 2025 BOS work session

Please see enclosed Exhibit Notice of Claim

SENT BY CERTIFIED UNITED STATES MAIL TO

Cochise County Board of Supervisors
1415 Melody Lane, Building G
Bisbee, AZ 85603

September 24, 2024

NOTICE OF CLAIM AGAINST COCHISE COUNTY, ARIZONA

Claimant Information:

Tres Alamos Community Alliance
P.O. Box 1635, Benson, AZ 85602
Telephone: 520-720-8132

Joint Claimants' Information - hereinafter "Tres Alamos Community Alliance" or "TACA".

(individual claimant signature list, Attachment A)

Kristin Bidegain, Matthew Bidegain, Cathy Bray, Jennifer Bray, Robert Bray, Robert R. Bray, Eileen Brien, Ashleigh Cubley, Robert Cubley, Cliff Durham, Randy J. Durham, Randolph Durham, Sarah Durham, Terri Durham, Jeremy Fenn, Kayleen Fenn, Maryleta Ganoung, Clayton Goeglein, Andy Hersey, Holly Hersey, Yvonne Mayberry, Zack Mayberry, Amber Parker, Jason Parker, Joseph D. Regnier, Jean Ruiz, Madelyn Walker, Paul Walker

Date of Occurrence: May 6, 2024 and henceforth

Locations of Occurrence: County Offices in Bisbee, AZ and north of Benson, AZ on Ocotillo Road

Circumstances of the Occurrence:

Precis of Claim:

Several government officials of Cochise County, Arizona (hereinafter "County Officials" or "CO") have failed to perform their mandated duties and/or have obstructed other officials in the performance of their official, mandated duties to ameliorate a nuisance occurring within the boundaries of Cochise County that not only violates County ordinances, but has caused actual damage to Claimants' property as well as destroying the Claimants' ability to enjoy their property. The CO's failure/obstruction occurred, and continues to occur, despite Claimants' provision to CO actual notice of the existence of the nuisance, and of both the CO's legally-mandated duties and the harm the joint claimants suffered because of the CO's willful failure/obstruction of the CO's obligation to follow Cochise County ordinance to end the nuisance and ameliorate the harm the nuisance caused. The CO's willful abrogation of the CO's legal obligations has caused actual harm to the Claimants to date amounting to the sum of \$1,125,727.44, the expert-estimated cost of ameliorating the nuisance and repairing the harm the nuisance has caused to date, which total does not include emotional harm and punitive damages, both of which will be sought in litigation if this claim is not immediately resolved. (Note that because the harm continues to accrue, the amelioration cost continues to rise.)

Specific Details of the Claim

The government of Cochise County, initially two employees in the Department of Development Services (DDS), Dora Amaya and Daniel Coxworth; then the County Administrator (CA) Richard Karwaczka; and finally the three members of the Cochise County Board of Supervisors (BOS) Peggy Judd, Karen English, and Tom Crosby. have obstructed and prevented normal and proper action for investigation and resolution of citizens complaints properly filed by a group of resident taxpayers acting as the Tres Alamos Community Alliance (TACA).

The bases for this claim are provided in original complaints made by the citizens' complaint group as well as further complaint issues identified and developed during the ensuing 5 months of TACA efforts toward resolution. Examples of these grievances include the noise/dust/pollution associated with heavy trucking of materials into and from the site; serious wear and other negative factors associated with that heavy truck traffic on Ocotillo Road which appears to not have been built to a standard suitable for such use, and; the importing of a large quantity of biomass (estimated to be about 27,000 cu.ft./3,000 cu. yds.) which presents pollution and fire dangers to our community. In response to our expressed concerns about that biomass storage, Dan Coxworth has stated the intent of the property owner to use it for erosion control. Photographic evidence has shown that, during the more than 6 months since the biomass was imported, it has not been used for such purposes and nothing has been done to mitigate the serious earth erosion noted elsewhere in this complaint.

All complaints, requests and events are clearly documented in attached correspondence to, and with, county officials as noted. (Attachment B)

The named county officials:

- arbitrarily "closed" the initial complaint without providing reason or notice to complainants and took no action to resolve the noted nuisance
- refused to re-open the complaint TACA challenged their action to close
- refused to provide requested public information or answer inquiries related to the issues in complaint
- presented false and/or misleading information in response to inquiries and calls for action
- refuse to enforce county laws (ordinances) which directly address matters in the complaint
- refuse to control or explain the legal status of a business operation not in compliance with zoning
- refuse to have a BOS meeting agenda item to enable citizens to address the above to seek solutions.
- closed other related citizen complaints without proper action (Files # 24-001313 and 24- 001314)
- have yet to resolve complaints involving property damage due to flooding (File # 24-003057)

The sum effect of the above actions and behaviors has been to: subvert and deprive citizens of due process for redress of grievances; aid and abet non-enforcement of county and state laws, and; abuse and misuse county taxpayer dollars in avoiding proper exercise of duties.

In addition to cited damages caused by the above noted county parties, and in the process of gathering information and evidence in this matter, the claimants have identified damages caused by other parties related to the subject properties/operations, as cited in documentation and as made known to the CA at a public meeting.

Such damages are attributable to Shane Madsen, owner of the subject property at 2150 N. Ocotillo Road and Kevin Rasch who has worked and operated equipment at that and other involved sites during Mr. Madsen's ownership. Those two individuals, in the least, are responsible for the ingress/egress of heavily loaded large trucks causing related noise, dirt/dust, wear damage and dangers on Ocotillo Road as well as the import of the huge pile of biomass material now illegally stored at that site. Those individuals also are responsible for rearrangement of the landscape (earthwork) on that property which has resulted in dramatic change of storm water runoff paths and causing erosion damages across adjoining private properties owned by Durham (Parcels #20826020G and #20826020E) and Haidet (Parcel #20826020P) as well as new occurrences of severe and dangerous flooding on Ocotillo Road. Mr. Rasch is responsible for identified violations on private properties leading to complaints yet unresolved by Cochise County officials.

As described in the complaint (File #: 24-001314) filed with Cochise County by Ms. Kristin Bidegain on behalf of herself and neighbors in the community, witnessed activity supported by photographic evidence shows trash/debris dumped into the bed of the San Pedro River. The prospects for pollution of the river are significant. The complaint was closed without any corrective action being taken by county officials.

As described in the complaint (File # 24-001313) filed with Cochise County by Ms. Kristin Bidegain on behalf of herself and neighbors in the community, witnessed activity supported by photographic evidence shows the motor home which was buried in the watershed in the Del Lago subdivision. The prospects for pollution of underground water (well source) and the San Pedro river are significant. The complaint was closed without any corrective action being taken by county officials.

Owner earthwork actions on three Scott parcels (#20829008D, E and F) altered the natural water drainage patterns and caused erosion damages to adjoining Durham property parcel (#20826020Q). This damage was presented to and discussed with CA Karwaczka on July 18, 2024 and also described in the complaint (File # 24-003057) submitted to Cochise County by Mr. Randolph Durham. The above led to a visit by county engineering staff to observe portions of the runoff/damage situation. No response or report from county staff has been forthcoming since that visit.

Noting the expressed concern in the original complaint, there is every indication that N. Ocotillo Rd. was never designed or constructed to bear the weight and motion of heavily loaded commercial trucking as witnessed making ingress/egress at 2150 N. Ocotillo Rd. during the first three or four months of 2024. The immediate damage to the road by that commercial trucking provided obvious evidence, some of which was submitted in photographs. To the best of our ability to determine, from its original condition as a dirt/gravel road, only 1.8 miles of N. Ocotillo Rd. have been constructed with AC base (base plus asphalt) and the entire remainder (about 6 miles) consists of a buildup of chip sealing (oil plus chips with no base) to which more of the same has been added since the 1980s. In addition, the roadway is of minimum safe width mostly lacking any sort of stable shoulders, and there are several blind curves between Benson and the Willow Lakes area. The Farm/Ranch exemptions which enable occasional trucking for such purposes are understood. However, the noted and witnessed frequency and repetition of heavy commercial traffic involving 2150 N. Ocotillo Rd. occurs on a road never brought even close to reasonable standards for such load weight and frequency.

Amount of Claim

The claimants demand that Cochise County, as represented by staff and elected officials named above:

1. Provide all public records previously requested, and immediately rectify and ameliorate the following nuisances:

- a. remove the illegal pile of biomass at 2150 N. Ocotillo Road, or cause it to be removed, to an approved site for such waste as required by Cochise County ordinance 03-11 to adopt ordinance 032-03. If Cochise County does not act as described above, claimants will be granted full access to the site to relocate the biomass and receive payment of up to \$422,935.44 for that purpose;
- b. cause the business operation and all related equipment to be removed from 2150 N. Ocotillo Road; if refused, require pavement of the entry road to reduce dust conditions (estimated cost of paving \$516,875);
- c. cause to be reworked and corrected all watershed alterations made during Sierra Mining and Crushing (SM&C) ownership of the property at 2150 Ocotillo Road which have redirected water runoff damaging Durham and Haidet properties (Parcels 20826020G, 20826020E and 20826020P) and causing dangerous flooding conditions on Ocotillo Road;
- d. hold Sierra Mining and Crushing (SM&C), Shane Madsen and Kevin Rasch, responsible for repair of all property damages caused by the runoff noted in c. (above), including complete restoration of all soil surfaces on the Durham and Haidet properties (Parcels 20826020G, 20826020E and 20826020P). After returning watershed paths to pre-2024 configurations, SM&C will install appropriately engineered Gabion Baskets and Reno Mattresses to slow the descent of watershed in affected arroyos. These applications will start at property lines of (Parcels 20826020g & 20826020e and Haidet parcel 20826020p) and be positioned every 100' back (up the grade) in all of the watershed channels created by past and present re-arrangement of dirt work, and any new paths of erosion that may form in the future as a result of any and all operations on property currently owned or altered by SM&C, their constituents or contractors. Those installations that will traverse and line the watershed channels on SM&C properties are to be done immediately and at SM&C expense. At the points where the new watershed channels enter Parcels 20826020g & 20826020e and Haidet parcel 20826020p, owners of those parcels will determine the type of features to be used to slow the descent and negate the increased erosion, but only after SM&C has completed the previously noted erosion controls and accomplished in such a manner that they are deemed effective by the noted property owners in possession of Durham Parcels 20826020g & 20826020e and Haidet parcel 20826020p. A deposit sum of \$9500 will be paid for property damage remediation. Furthermore an amount of \$13,000 will be paid (\$6500 to Haidet, \$6500 to Durham) for continued work to replace lost soil and landscape and to install erosion preventative works and this amount will accrue interest at 5% for each 6 month period until the above mentioned prevention work on SM&C properties is completed and approved as specified. Thus, the total payment to Haidet and Durham will be a minimum of \$22,500. Further, if SM&C is not required or does not perform the initially noted restorative and preventive operations on its properties, claimants will be granted access to said properties in order to perform such operations and claimants will be reimbursed for all documented cost of such operations and at a minimum payment of \$118,500

1.e. remove, or cause to be removed, all debris/trash deposited into the San Pedro riverbed (Complaint file # 24-001314). If Cochise County does not act as prescribed above, claimants will be granted full access to the site to locate and move the debris to a legal site and receive payment of up to \$4,000 for that purpose;

f. remove, or cause to be removed, the motor home which has been buried underground in a watershed very close to the San Pedro riverbed (Complaint file # 24-001313). If Cochise County does not act as prescribed above, claimants will be granted full access to the site to uncover and move the motor home to the surface and receive payment of up to \$9,000 for that purpose;

g. cause George Scott, the owner of parcels #20829008D, E and F, to excavate trenching on his parcels to direct all water drainage back to its natural and original pattern and into the original arroyo on Scott property, ending the erosion damage on the Durham parcel 20826020Q. Cause that same owner to import needed clean fill dirt and refill the land erosion damage on parcel 20826020Q. This must be accomplished with access only through parcel # 20829008D to refill eroded areas on parcel # 20826020Q as caused by the damaging earthwork performed on Scott parcels, as explained in Specific Details of the Claim. If Cochise County does not act as prescribed above, claimants will have access to the noted Scott parcels to excavate trenching to direct all water drainage back to its natural and original pattern and into the original arroyo on Scott parcels and receive payment up to \$31,917 for that purpose;

h. institute a reasonable weight limit of 6 tons (12,000 lbs.) on N. Ocotillo Rd. and/or rebuild the roadway to proper base/asphalt construction, providing standard open weight bearing shoulders and clearing all blind curves to the greatest extent possible.

Summary

If Cochise County refuses to perform the above actions, claimants must undertake a variety of corrective and construction activities to protect themselves from present and future damages and nuisances resulting from such inaction. In that case, claimants demand payment by Cochise County and others named in the total amount of \$1,125,727.44 as well as commitment for access to all properties as necessary to perform such actions.

Submitted this 24th day of September, 2024.

Attachment A. Signatures of Claimants

Attachment B. April 9, 2024 Citizen Complaint Document

Attachment C. May 3, 2024 Letter from Citizens' Complaint Group (CCG) to D. Amaya

Attachment D. May 8, 2024 CCG letter to D. Coxworth

Attachment E. May 16, 2024 CCG Notes on progression of events with CC Developmental Services

Attachment F. May 16, 2024 CCG letter to R. Karwaczka seeking assistance with complaint

Attachment G. June 14, 2024 CCG letter to R. Karwaczka further explaining concerns and problems

Attachment H. June 25, 2024 CCG letter to Cochise County Board of Supervisors

Attachment I. July 4, 2024 CCG letter/response to R. Karwaczka meeting invitation and key issues

Attachment J. July 15, 2024 Request to Cochise county Board of Supervisors for agenda item

Attachment K. July 21, 2024 Record of CCG meeting with R. Karwaczka on July 18, 2024

Attachment L. July 29, 2024 CCG letter to R. Karwaczka citing refusal to enforce county ordinance

Tres Alamos Community Alliance
- preserving the quality, beauty and safety of our community

March 2025 Complaint/Action 1
Cochise County Board of Supervisors

Business/Industrial operations at 2150 N./ Ocotillo Rd. - Sierra Mining and Crushing

The resident landowners here have decided to live and develop our properties in the Tres Alamos Area for good and specific reasons, most of those having to do with the beauty, quiet and cleanliness of our surroundings. The Tres Alamos Area Plan adopted by the county emphasis those very factors and stipulates that industrial operations are not appropriate in the Tres Alamos area, Accordingly, our investments in our properties and close surroundings and our chose way of life are strongly threatened by any potential for further deleterious activity at 2150 N. Ocotillo Rd.

Object of our complaints.

Operations at this site in the earlier 2000s were the subject of complaints by neighbors and investigations at that time. Without any specific resolution of the complaints, that earlier operation was closed. Unfortunately, early in 2024, the new owner of the property undertook various operations as noted in the introduction. This activity immediately caused problems for local residents, such as:

Dirt and blowing dust;
Spill from entering and exiting trucks, and while running on Ocotillo Road;
Loud and excessive noise caused by trucks and exhaust brakes;
Deposit of a huge pile of biomass/vegetation trash, possibly brought in from outside Cochise County
Sudden and serious deterioration of the paved road surface;
Dangers of large trucks, at excessive speeds on a narrow roadway, blind curves and unsafe shoulders.

For additional specific details please read relevant sections of the Notice of Claim filed with the Board of Supervisors by TACA in September, 2024

Recent experiences with Cochise County Supervisors and staff.

Consequently, in April 2024, we fled detailed complaints about the above and requested action by the county. However, staff in Cochise County Development Services decided to close those complaints without undertaking any serious investigations. They also refused to provide requested information or answer inquiries on complaint related matters. The Director of that county department repeatedly insisted – falsely – that operations by Sierra Mining and Crushing at that site were beyond county monitoring and regulation because the operation had a “mining exemption”. Even after having been proved dead wrong on that “exemption” claim, the Director stalled, diverted and refused to act on our complaints.

As a consequence, TACA addressed the problems to the county administrator who did nothing beyond have a non-productive meeting with us. TACA then tried to have the Board of Supervisors (BOS) place us on their meeting agendas for address of the above matters. The BOS never even replied to our communications. Further detail can be found in the TACA Notice of Claim filed in September with the BOS.

The problems to be corrected.

Since the earlier filing of our complaint and then the Sierra Mining and Crushing withdrawal of its rezoning request, the noted trucking/industrial operations were greatly reduced during some time periods. However, in recent weeks the heavy trucking has resumed on a sporadic basis.

Given the following experienced actualities:

- refusal of county staff to investigate and correct valid complaints about a non-permitted operation
- refusal of county staff to enforce county ordinances applicable to some aspects of that operation
- blatant misrepresentation by county staff that the operation was “exempt” from county control
- costs incurred by the county due to business operation that appears to generate no permit/tax revenue

TACA will request specific actions by the BOS to clarify the status and parameters for use of that property and deal with related problems.

Please see enclosed Exhibit 1A, Notice of Claim

Tres Alamos Community Alliance
- preserving the quality, beauty and safety of our community

March 2025 Complaint/Action 2,
Cochise County Board of Supervisors

Materials and construction of N Ocotillo Road

Originally a dirt/gravel rural roadway from Airport Road to Willow Lakes (7 miles).

The first few miles north of Benson were gradually improved with liquid/chip applications through 1985 and had a 12 ton weight limit.

The materials and construction of Ocotillo Road have never been anywhere close to the acceptable standard for regular use by heavily loaded trucks. Given the construction and ongoing condition of this road, even a limit of 12 tons may not be low enough. The sad history of misuse and damage to this road is closely associated with the property at 2150 N. Ocotillo Road.

Borrow Pit operation opens at 2150 N Ocotillo Road in 1993

When the original materials operation at 2150 N. Ocotillo Road was started in about 1993, the owner lobbied for a greatly increased weight limit. The county supervisors were quite reluctant to increase that weight limit for obvious and good reasons. To reinforce that fact, in April 1993, the supervisors enacted a restatement of the 12 ton weight limitation in Resolution 93-38. (Enclosure A.)

2005 proposal between Cochise County and Huachuca Concrete for N Ocotillo Road

In 2005, Huachuca Concrete requested a lifting of the weight to accommodate loads greater than 12 tons. The county supervisors, together with the owner of Huachuca Concrete at 2150 N. Ocotillo Road, developed a proposal. It called for the concrete company to donate rock/gravel materials to the county and the county would significantly upgrade the quality and substance of this road to enable a much higher weight limit. These upgrades were to include widening of the road, upgraded base/foundation, upgraded surface materials and improvement/solidification of road shoulders for the seven miles north of Benson. (Enclosure B)

Road Problems due to removal of weight limit

During the ongoing operations and heavy trucking to the industrial site after 2005, Ocotillo Road began to exhibit cracking, road disintegration and pot holes. Residents experienced significant detrimental actions including but not limited to increased dust, noise and loose material falling from trucks resulting in damaged windshields. Many related complaints by citizens were filed. These conditions continued for a few years until Huachuca Concrete ceased operations at that borrow pit.

2007 N Ocotillo Road partial upgrade and condition reports

In 2007, the first 1.3 miles and the half mile from mile 3.2 through 3.7 were reworked to asphalt/concrete status but NONE of the other improvements, including the remaining 5.2 miles of road were never upgraded as stipulated in the 2005 proposal. External evaluations performed in July, 2007 noted that the upgrade to AC level was inferior and that the new surface was cracking and disintegrating to varying degrees of severity. Another road evaluation was completed in December 2009 with the same results. (Enclosures C and D)

2024 Sierra Mining & Crushing running heavily loaded trucks on N Ocotillo Road

In early 2024 Sierra Mining & Crushing began running large numbers of heavily loaded trucks to and from that same site. Many neighbors, who now are organized as Tres Alamos Community Alliance, (TACA), filed the noted complaints about the trucking with Cochise County. During 2024 when our citizen group was protesting and inquiring about the heavily loaded trucking to and from 2150 N. Ocotillo Road, residents were experiencing increased traffic, loud noise, dust and cracked windshields from trucks with uncovered loads. Sierra Mining had no permits to operate during this time and created quite a nuisance in the community.

Thus, the problems caused by overloaded trucks on Ocotillo Rd. have persisted until the present. TACA equests for specific actions will be presented to the BOS.

Please see enclosed Exhibits 2A, 2B, 2C and 2D.

Board of Supervisors

APR 19 1993 2pm
0-3

Mike Palmer
Chairman,
District 2

Tony J. Saracino
District 1

Leslie E. Thompson
District 3



Jody N. Klein
Interim County Administrator

Nadine Parkhurst
Clerk

RESOLUTION 93- 38

A RESOLUTION OF THE BOARD OF SUPERVISORS OF COCHISE COUNTY,
IMPOSING A WEIGHT LIMITATION ON OCOTILLO ROAD AND AUTHORIZING THE
PLACEMENT OF REGULATORY SIGNS

WHEREAS, the Board of Supervisors has the authority to impose limitations on the weight of trucks or other commercial vehicles, as necessary to prevent a roadway from becoming seriously damaged or destroyed, pursuant to A.R.S. §28-1012(C); and

WHEREAS, The Board of Supervisors has the authority to regulate and control the use of Ocotillo Road pursuant to the above-referenced law, as well as pursuant to A.R.S. §28-627 and A.R.S. §28-643; and

WHEREAS, "Ocotillo Road" as used herein, shall be more particularly described as that roadway which extends from the Benson City limits northward to its terminus in Section 9, Township 15 South, Range 20 East; and

WHEREAS, it is necessary for the protection and convenience of the traveling public, as well as for the protection of the roadway itself, to limit the use of Ocotillo Road by trucks and commercial vehicles of a total gross vehicle weight exceeding twelve (12) tons; and

WHEREAS, it is necessary that this Resolution be implemented immediately to prevent damage to the roadway and to protect the traveling public from any hazards which would result from damage to this roadway.

NOW, THEREFORE, BE IT RESOLVED THAT the use of Ocotillo Road by trucks or other commercial vehicles exceeding twelve (12) tons gross vehicle weight is hereby prohibited, except as such use may be expressly permitted pursuant to A.R.S. §28-1011, authorizing permits for excess size and weight.

BE IT FURTHER RESOLVED THAT the Public Works Department is authorized and directed to place appropriate regulatory signs on this road, at each end, to advise the public of this restriction.

BE IT FURTHER RESOLVED THAT the County Engineer or his designee is authorized to issue any special permit, pursuant to A.R.S. §28-1011, for excess size or weight, as may be appropriate under that statute.

PASSED AND ADOPTED this 14 day of April, 1993, as an emergency resolution to be effective immediately as necessary to protect the public health, safety and welfare.

COCHISE COUNTY BOARD OF SUPERVISORS

By: Mike Palmer
Mike Palmer, Chairman

ATTEST:

Nadine Parkhurst
Nadine Parkhurst, Clerk

APPROVED AS TO FORM:

Charlie
Deputy County Attorney



FEE # 930410128
OFFICIAL RECORDS
COCHISE COUNTY
DATE HOUR
04/19/93 2

REQUEST OF
COCHISE COUNTY BOARD OF SUPV
CHRISTINE RHODES-RECORDER
FEE : 0.00 PAGES : 3

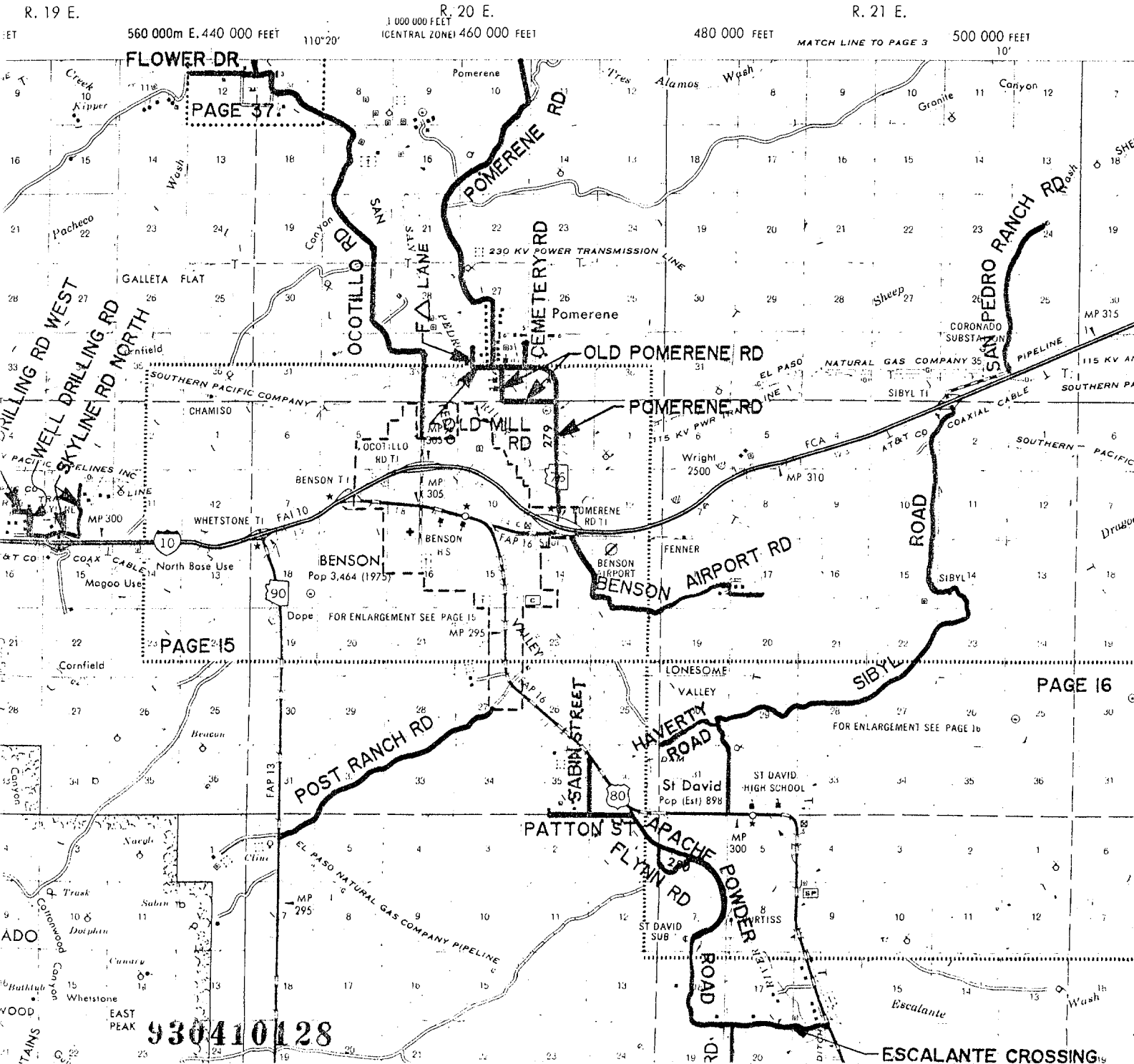
930410128
COCHISE COUNTY BOARD OF SUPV
BOX 225
BISBEE , AZ. 85603

C:\DOCS\RESO\OCO12T

930410128

Area of sand and gravel site

COCHISE COUNTY MAINTAINED ROAD SYSTEM





FEE # 050933029
OFFICIAL RECORDS
COCHISE COUNTY
DATE 09/01/05 HOUR 3

REQUEST OF
COCHISE COUNTY BOARD OF SUPV
CHRISTINE RHODES-RECORDER
FEE : PAGES : 4

**AGREEMENT FOR REMOVING WEIGHT LIMIT ON OCOTILLO ROAD
And
SUPPLYING COUNTY WITH MATERIALS TO IMPROVE OCOTILLO ROAD**

This Agreement is hereby entered into by and between Huachuca Concrete, Inc., an Arizona corporation, hereinafter "Huachuca Concrete," and the County of Cochise, a political subdivision of the State of Arizona, hereinafter "the County."

RECITALS

WHEREAS, pursuant to its authority under the applicable laws of this state, including ARS §§ 28-1106.C, -627 and -643, and Resolution 93-38, the County placed a twelve (12) ton gross vehicle weight restriction upon the use of a certain County highway located north of Benson, Arizona, designated as Ocotillo Road; and

WHEREAS, the County placed the weight restriction on Ocotillo Road based upon the structural condition of Ocotillo Road, and as believed necessary to protect the subject roadway, and allow the roadway to be used in a manner that is reasonably safe for public travel; and

WHEREAS, Huachuca Concrete owns a property in which they intend to establish a commercial sand and gravel operation/business off of Ocotillo Road, and desires to use trucks to haul rock aggregate products with weights that will exceed the twelve (12) ton limit; and

WHEREAS, the County Engineer has determined that Ocotillo Road may be safely used by trucks with weights such as those Huachuca Concrete proposes to use, and be adequately protected from damage, if Ocotillo Road is improved by increasing the depth of the aggregate base course and widening the road to twenty eight (28) feet, (two twelve foot travels lanes and two foot paved shoulders on each side), for the seven mile stretch of Ocotillo Road extending from Airport Road near Interstate 90 to just north of the Willow Lakes subdivision; and

WHEREAS, to facilitate said improvement of Ocotillo Road, Huachuca Concrete has agreed to provide the County with 20,000 tons of AB (aggregate base) and 2,400 tons of rock chips; and

WHEREAS, this agreement is in the best interests of the County and its citizens and includes appropriate conditions which the parties believe to be sufficient to protect the subject roadway, provide for its repair, and allow this road to be used in a manner that is reasonably safe for public travel,

050933029

AGREEMENT

NOW THEREFORE, in consideration of the premises and mutual agreements, covenants and promises contained in this Agreement, the parties hereby agree as follows:

1. **Materials to Improve the Road Structure.** To facilitate improvements to Ocotillo Road, and as compensation for damages to the road structure that will result from the operation of excess weight vehicles, Huachuca Concrete shall provide to the County, without charge, the following materials:

- a. 20,000 tons of Aggregate Base material, meeting standard County specifications.
- b. 2,400 tons of rock chips, 3/8 inch diameter, meeting standard County specifications.

These materials will be provided to the County from the Huachuca Concrete pit on Ocotillo Road and placed in County vehicles at that site. The County will be responsible for transportation costs from that location. In the event that this delivery is not possible for any reason, Huachuca Concrete will be responsible for providing these materials from another pit (either its own, or operated by another company), or providing the equivalent cash value of these materials, together with any additional costs that the County may have to assume for the delivery of alternative materials from another location. If Huachuca Concrete fails to timely supply the above materials as requested by the County, the Board by Resolution may re-impose a weight restriction as it deems fit.

2. **Timing of Improvements and Need of Materials.** It is understood that the County intends to use these materials in improving Ocotillo Road sometime between 2006 and 2008, and therefore Huachuca Concrete will need to supply them during such time. However, it is also understood that when the County can improve Ocotillo Road may depend on other road work requirements that cannot be determined in advance. Consequently, Huachuca Concrete will supply these materials at any time during the seven (7) year term of this Agreement as requested by the County. The County will provide Huachuca Concrete with its annual work plan each year, when this is available, and will advise Huachuca Concrete of the time and amount of materials that will be required each year as soon as this can be determined.

2.1 **Acceleration/Turn Lane & Driveway Apron.** Huachuca Concrete agrees to design and construct an acceleration/turn lane on Ocotillo Road at the entrance to their property. They will also construct an apron at the driveway entrance onto Ocotillo Road that equals or exceeds the quality of Ocotillo Road. Both will be done at the sole cost and expense of Huachuca Concrete, and both shall be designed and constructed in accordance with the *Cochise County Road Design and Construction Standards and Specifications* and shall be stamped by a registered engineer. Huachuca Concrete shall obtain a right of way permit before commencing construction.

3. **Lifting Weight Limits.** The twelve (12) ton weight limit on Ocotillo Road shall be removed upon completion of the driveway apron and acceleration/turn lane and approval by the County Engineer. It is understood that removal of the weight limit restriction applies not just to Huachuca Concrete and its customers, but to all vehicle traffic on Ocotillo Road. The weight limits set forth in ARS § 28-1100 shall apply. It is further understood that prior to lifting the weight limit, Huachuca Concrete will need to use construction equipment that will exceed the weight limit in order to construct the traffic land and apron. For this purpose, and this purpose only, the County will issue permits for overweight vehicles in accordance with its customary practice.

4. **Public Safety Requirements.** It is understood by the parties that notwithstanding this Agreement, if the County Engineer, in consultation with the Board of Supervisors, after having had opportunity to observe the effects of increased travel on Ocotillo Road and by vehicles with gross weight in excess of twelve (12) tons, determines that Ocotillo Road is not reasonably safe for travel, may re-impose weight limits or other restrictions as deemed appropriate. Otherwise, the County Engineer shall review Ocotillo Road seven (7) years after approval of this Agreement to determine what restrictions or improvements are appropriate given the condition of Ocotillo Road, the effects on it, expected travel and use, and other factors.

5. **Securing Loads.** No vehicle shall be operated on Ocotillo Road unless the load is properly secured to prevent spillage and any covering is securely fastened so as to prevent the load or covering from becoming loose, detached or in any manner a hazard to other users of the road.

6. **No Limit on the Exercise of Governmental Authority.** This Agreement does not limit the lawful authority of the Cochise County Board of Supervisors to regulate the manner in which the public roads, including Ocotillo Road, which are subject to its jurisdiction are used and improved, nor shall it limit the Board's authority to adopt such policies and regulations as may be required by future circumstances.

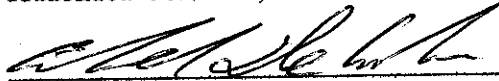
050933029

7. **Term.** This Agreement shall remain in full force and effect for a period of seven (7) years from the date of its approval. This Agreement shall be subject to termination pursuant to A.R.S. § 38-511 in the event of any unlawful conflict of interest.

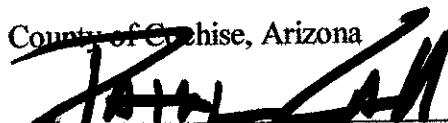
8. **Entire Agreement.** This Agreement constitutes the full extent of the legally enforceable rights and obligations of the parties. Any of the prior discussions or understandings between these parties that are not expressly incorporated herein are not intended to be terms and conditions of this Agreement. This Agreement may be amended by the parties only by a written document that is signed and approved in the same manner as this Agreement has been approved.

WHEREFORE, this Agreement is hereby approved by the parties, as indicated below.

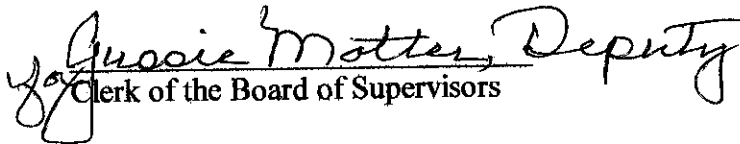
Huachuca Concrete, Inc.


By: Abel DeAnda 8/30/05
Its: President Date


County of Cochise, Arizona


By: Pat Call, Chairman 8/30-05
Cochise County Board of Supervisors Date

ATTEST:


Gussie Motter, Deputy
Clerk of the Board of Supervisors

Approved as to Form:


Britt Hanson, Deputy County Attorney 8/30/05
Date

050933029

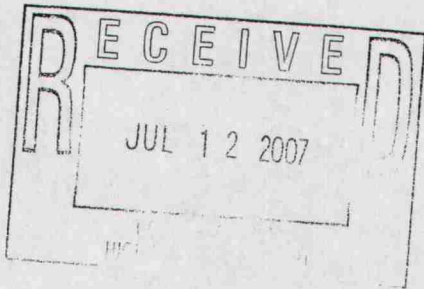
PAVEMENT EVALUATION
OCOTILLO ROAD
COCHISE COUNTY, ARIZONA
JOB NO. 2957JC030



**Western
Technologies
Inc.**

The Quality People
Since 1955

TUCSON - ARIZONA
3480 South Dodge Boulevard
Tucson, Arizona 85713-5435
(520) 748-2262 • fax 748-0435



Prepared For:

COCHISE COUNTY

July 11, 2007

Jesus A. Sandoval-Gil, Ph.D.
Materials Project Manager



Randall D. Harris, P.E.
Managing Director

ARIZONA

CASA GRANDE
COTTONWOOD
FLAGSTAFF
FORT MOHAVE
LAKESIDE
LAKE HAVASU CITY

PHOENIX
PRESCOTT

SIERRA VISTA
TUCSON

COLORADO
DURANGO
GRAND JUNCTION
PAGOSA SPRINGS

NEVADA
LAS VEGAS

NEW MEXICO
ALBUQUERQUE
FARMINGTON

UTAH
SALT LAKE CITY



**Western
Technologies
Inc.**

The Quality People
Since 1955

3480 South Dodge Boulevard
Tucson, Arizona 85713-5435
(520) 748-2262 • fax 748-0435

July 11, 2007

Cochise County Highway and Floodplain Department
1415 West Melody Lane
Bisbee, Arizona 85603

Attn: Ron Ellis

Re: Pavement Evaluation
Ocotillo Road
Phase I (MP 0.0 to 1.0) and Phase II (MP 3.0 to 3.5)
Cochise County, Arizona

WT Job No. 2957JC030

Western Technologies, Inc. has evaluated asphalt concrete pavements along portions of the existing Ocotillo Road just north of the City of Benson in Cochise County, Arizona.

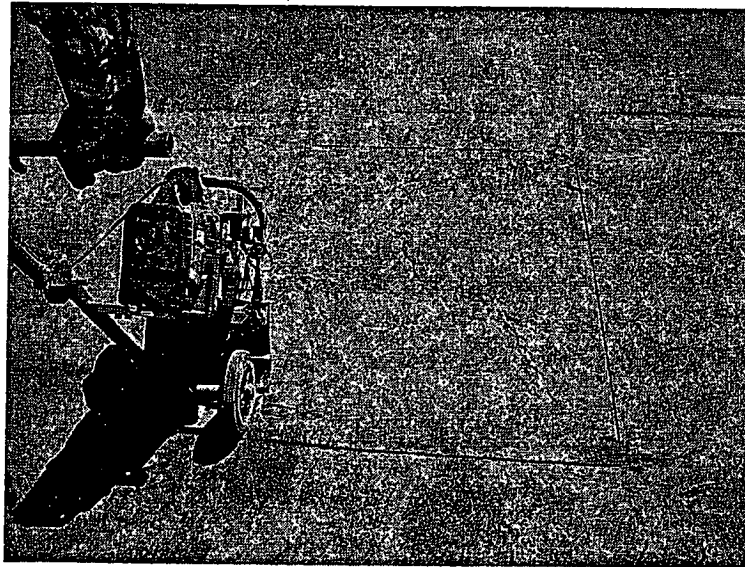
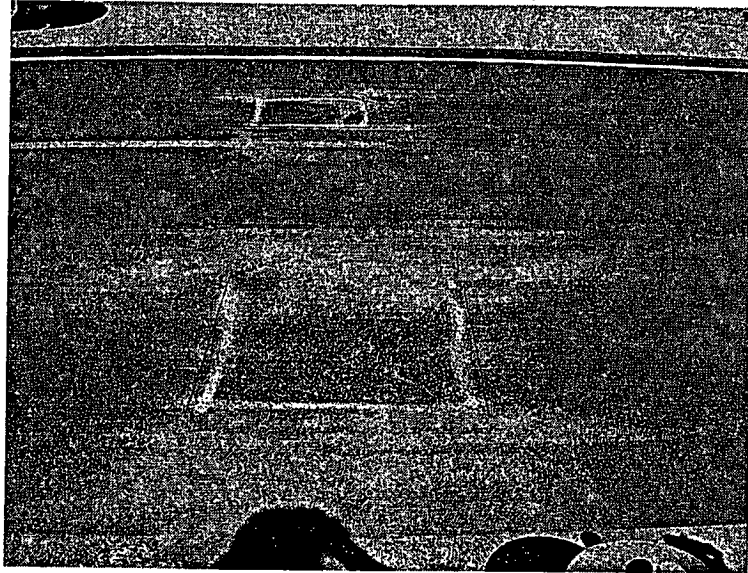
PROJECT UNDERSTANDING

Based on information provided, we understand the project consists of 2 sections of Ocotillo Road that were reconstructed and paved with asphalt concrete between January and March 2007. Phase I is approximately 1 mile in length (Milepost 0.0 to 1.0) and Phase II is approximately 1/2 mile in length (Milepost 3.0 to 3.5).

We understand Phase I was paved on March 12 and March 15, 2007, with asphalt concrete being supplied by Vulcan Materials Company (Vulcan) on March 12 and by Granite Construction Company (Granite) on March 15. Phase II was paved at a later date with asphalt concrete supplied by Granite. At least in Phase I, the asphalt concrete was placed in 2, 12-foot-wide ribbons with the east half being paved before the west half.

We understand the design pavement section for both phases was 2 inches of asphalt concrete overlying 4 inches of aggregate base course. The project was constructed in accordance with the Maricopa Association of Governments' *MAG Uniform Standard Specifications for Public Works Construction*.

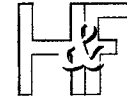
The asphalt concrete has experienced cracking with varying levels of severity from minor stretch cracks to high severity slippage cracks with crescent-shaped surface deformities. Examples of the cracking observed are shown in the photos below.





**COCHISE COUNTY
HIGHWAY AND FLOODPLAIN DEPARTMENT**

COCHISE COUNTY



HIGHWAY AND FLOODPLAIN
DEPARTMENT

Making It Better

PROJECT INITIATION FORM

DATE: 9-17-07 Number: 2005-13 Project/Road Name (Road #) Ocotillo Rd #724 Location/Mile Posts: 0-1.4 & 3.0-3.5 **START DATE:** 9-17-07 **END DATE:** 12-31-097 Estimated Cost: \$126,000

Project Description (What is to be achieved? Why is the project to be done? How will it benefit Cochise County?) 2" AC has failed. Geotech firm is testing all materials and will design a structural section that should carry the expected truck traffic. Failed AC is to be mixed into sub base and new asphalt and AB shall be placed on sub base. Survey will prepare 1' topo of road & plan & profile sheets Allon will establish grade for the sub base & AB. A contractor will mill and mix the AC into the existing base starting on Oct. 22nd. Jimmie's Ops crew will then shape the sub base to grade & place AB to grade. Survey will provide construction staking including final blue top of AB. General contractor will place 3" of AC over the ABC. Ops will then do final striping. Inspection will be done by Ron's crew and materials testing will be done by WTI. These procedures will minimize risks and will result in a good AC surfaced road.

Project Coordination:

Engineering & Tech Services	FIELD TECH SERVICES	NORTH/SOUTH:
<input checked="" type="checkbox"/> Design/Eng -In-House to be done by Allon	<input type="checkbox"/> FTS Survey	<input type="checkbox"/> Maintenance
<input checked="" type="checkbox"/> Design/Const Contract Management Allon is project engr, Ron is contract superintendent/inspector	<input type="checkbox"/> Utilities Recon	<input type="checkbox"/> Recycle/Reconstruct
<input type="checkbox"/> Right-of-Way	<input type="checkbox"/> Structures/FCD Easement Maintenance	<input type="checkbox"/> Betterment
<input checked="" type="checkbox"/> ETS Survey	<input type="checkbox"/> Signing	<input type="checkbox"/> Drainage
<input type="checkbox"/> Inspections	<input type="checkbox"/> Soils Testing	<input checked="" type="checkbox"/> Other place AB to grade
<input type="checkbox"/> Environmental Permits	<input type="checkbox"/> Other	
<input type="checkbox"/> GIS		
<input type="checkbox"/> Trans Planning		
<input type="checkbox"/> Hydrology		

(Division Managers/Director to fill in and INITIAL)

Project Assigned to: North South Field Tech Engineering Admin

Project funding: HURF FCD **DIRECTOR APPROVAL:** _____ **DATE:** _____

Project Manager:
Phase 1: JD
Phase 2: RE
Phase 3: _____

Director's Notes _____



COCHISE COUNTY
HIGHWAY AND FLOODPLAIN DEPARTMENT
MEMORANDUM



MAKING IT BETTER

Your County Questions answered:

www.cochise.az.gov

Date: December 24, 2009

To: Ron Ellis, Operations Manager
Jimmy Dotson, Highway Superintendent

From: Allon Owen, PE, Senior Civil Engineer

Subject: Ocotillo Road Project to Recycle and Reconstruct from Milepost 2.5 to 3.0



Allon C. Owen
Expires December 31, 2012

Background:

Ocotillo Road was originally surfaced with a double chip seal in 1985 as part of a countywide road improvement program funded with voter-approved bonds. The design life was estimated to be 5 years at the time. The double chip seal was placed on a road base of native soils stabilized with lignum sulphonate, a glue-like substance made from processing wood. The glue is water-soluble and has likely dissipated over time.

The road surface has become rough due to the normal wear and tear of daily traffic on the inadequate road base. The road from milepost (mp) 0.0 to 1.4 and 3.0 to 3.5 was resurfaced in the fall of 2008. The resurfacing from mp 0.0 to 1.4 consists of 3" of AC on 10" of AB. This portion of the road is in excellent condition. The resurfacing from mp 3.1 to 3.5 consisted of 2" of AC on 4" of AB. This was not an adequate structural section and the base and asphalt surface have failed in several places.

The chip seal from mp 1.4 to 3.1 is still intact due to additional chip seals since 1985. However, as indicated above, the surface is rough and needs to be reconstructed.

The natural storm flow pattern at the road is predominately southwest to northeast. A significant amount of stormwater flows north in both roadside ditches from mp 2.2 to the wash at mp 2.8 as depicted in Figure 1 attached hereto. Storm flows often overtop the west-side ditch leaving sandbars across the road. A 9" wide by 200' long concrete curb was placed in the west roadside ditch just south of the wash in 1985 to keep stormwater from eroding the edge of pavement.

Proposed Improvements:

Western Technologies Inc., performed a geotechnical investigation for this portion of the road. Their study and findings are presented in a report dated October 23, 2007. Their recommendation is that 3" of AC be placed on 10" of AB (referenced MAG or PAG specifications). I estimate the probable cost of doing this by contract to be about \$690,000.

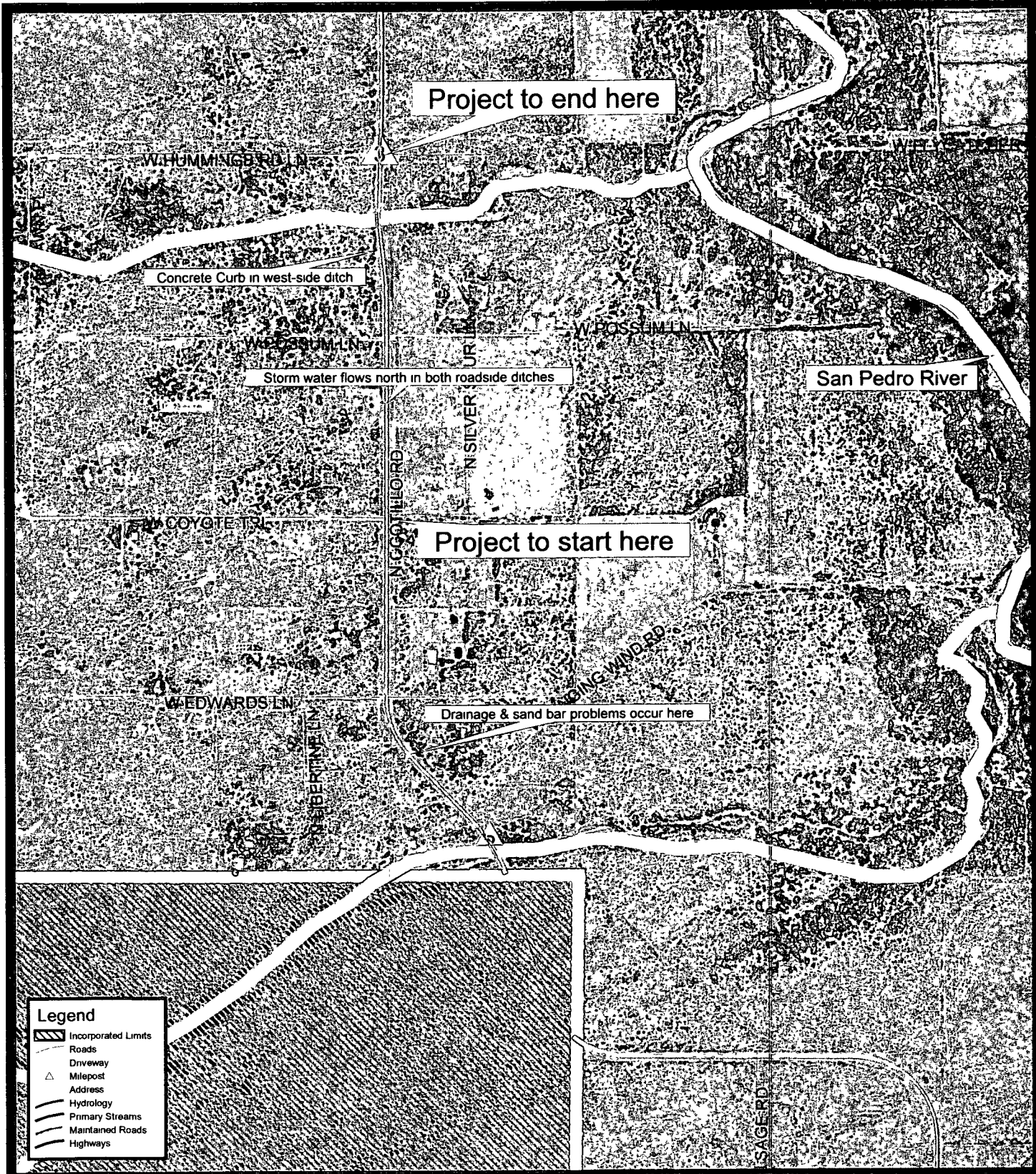
Due to budget constraints Benny Young, County Engineer has directed that Operations perform the R&R and that the new structural section consist of a double chip seal on an AB base course.

Operations is also to raise the grade of the road by a minimum of 12" to reduce the frequency of storm flows overtopping the road.

The project will consist of milling the old chip seal surface and mixing it into 6" of native soil for sub base, hauling and placing a minimum of **12" of AB** and **resurfacing** the new road base with an **"armor coat" double chip seal**. The armor coat shall consist of a layer of asphalt emulsion distributed at a minimum rate of 0.50 to 0.60 gal per sq yd and impregnated with 3/4" rock chips, the second layer of emulsion is to be applied at a rate of 0.40 to 0.50 gal per sq yd and impregnated with 3/8" rock chips. The chip seal is to be 28' wide. The work is to comply with Figure Ops-2 as modified and attached hereto and all minimum standards, processes and policies described in "SELECTED STANDARDS FOR ROADWAY CONSTRUCTION AND RECONSTRUCTION PERFORMED BY THE OPERATIONS DIVISION", November 19, 2008.

My opinion of probable cost for the project is \$205,000 as presented in the attached table.

Cc: Benny Young
Patricia Morris
Dale Jones
Barry Jacoby



Legend

- Incorporated Limits
- Roads
- Driveway
- Milepost
- Address
- Hydrology
- Primary Streams
- Maintained Roads
- Highways

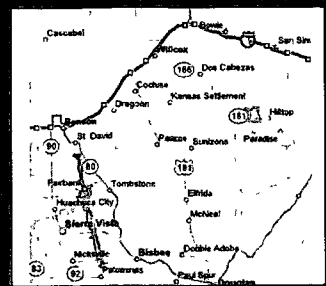
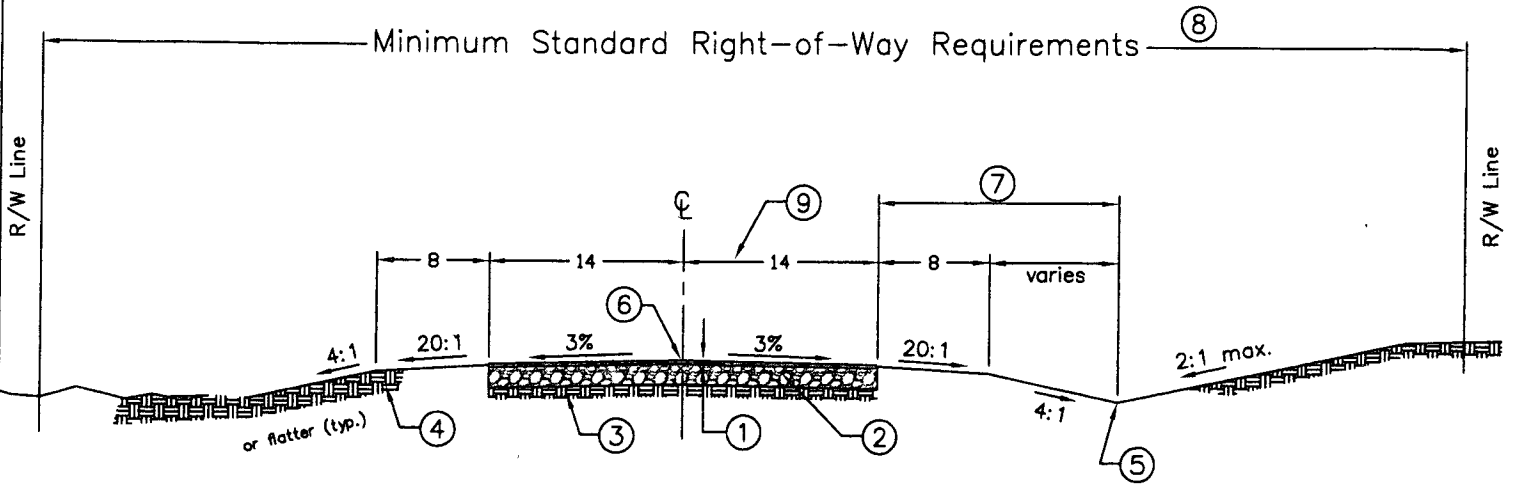


FIGURE 1
OCOTILLO ROAD R&R
MILE POST 2.5 TO 3.0

This map is a product of the
Cochise County GIS



- ① DOUBLE LAYER ASPHALT CHIP SEAL OVER ^{12"} ~~8"~~ MINIMUM AGGREGATE BASE (A.B.) OVER 6" COMPACTED NATIVE MATERIAL. ~~IF ADT < 400, THEN SEE FIG. D-103. ACTUAL DEPTH OF AB TO BE DETERMINED BY SOILS TEST OF SUBGRADE MATERIAL AND FIG. OPS 10.~~
- ② AGGREGATE BASE COMPACTED TO 100% OF MAXIMUM DRY DENSITY. *to meet 310.1 Ops Stds, 2008*
- ③ SUBGRADE COMPACTED TO A MINIMUM OF 100% OF MAXIMUM DRY DENSITY.
- ④ COMPACTED TO A MINIMUM OF 90% OF MAXIMUM DRY DENSITY.
- ⑤ DRAINAGE DITCH AS REQUIRED.
- ⑥ PROFILE GRADE & AXIS OF ROTATION.
- ⑦ CLEAR ZONE (FOR CLEAR ZONE REQUIREMENTS REFER TO AASHTO "ROADSIDE DESIGN GUIDE", 2002, CHAPTER 3).
- ⑧ MINOR COLLECTOR: 80'
LOCAL ROAD: 60'
- ⑨ LOCAL ROAD 12' LANES

COST ESTIMATE TO R&R & RAISE SURFACE OF OCOTILLO RD #724 BY 1' FROM MP 2.5 TO 3.0

Road Length	2,640 feet	0.50 mile
Road width	28 feet	1.17 ln mi
Depth of AB	12 inches	5,280 tons
Depth of Select Fill	0 inches	0 tons
Cost of CRS	\$500.00 per ton	Cost of chips \$21.00 per ton
Labor Rate	\$26.00 per hour	Cost of AB \$8.50 per ton

ACTIVITY NO.	ACTIVITY	NO. OF LABOR HRS.	COSTS IN DOLLARS		
			LABOR	EQUIPMENT	MATERIALS
801	Clearing & Grubbing	73	\$1,897	\$2,943	\$0
802	Shape the road, establish crown & drainage ditch	126	\$3,276	\$5,706	\$0
803a	Haul & place fill	0	\$0	\$0	\$0
803	Haul & place AB (17)	997	\$25,931	\$43,824	\$44,880
804	Surface w/ armor coat es (19)	57	\$1,482	\$2,628	\$23,393
	Assume no cmp's	0	\$0	\$0	\$0
	0 lf-inches of cmp's				
	No channels	0	\$0	\$0	\$0
	No wash crossing	0	\$0	\$0	\$0
	Incidentals (0.5)	627	\$16,293	\$27,551	\$4,414
	TOTALS	1880	\$48,879	\$82,652	\$72,687
	GRAND TOTAL		\$204,217		

Cost/sq yd \$24.86

Cost/ln mi \$175,043

See file:

Western Technologies INC.

Geotechnical Evaluation
Ocotillo Road Reconstruction

MP 0.0 to 3.5

Benson

10/23/2007

Telephone: (520) 432-9300
Fax: (520) 432-9337
Fax: (520) 432-9338
Toll Free: 1-(800) 752-3745

COCHISE COUNTY
HIGHWAY AND FLOODPLAIN DEPARTMENT

1415 W. MELODY LANE, BISBEE, AZ 85603



Your County Questions answered: www.cochisecounty.com

March 1, 2007

Kevin Thompson, General Manager
Huachuca Concrete, Inc.
423 S. Schrader Road
Sierra Vista, AZ 85635

Re: Agreement to Supply County with Materials

Dear Kevin,

Per our signed agreement of August 2005, your company was to provide 20,000 tons of AB and 2,400 tones of rock chips meeting MAG specifications. So far, we have used a small portion of this from your Ocotillo Road plant.

I would like to discuss with you the possibility of taking the remaining amounts from your Sierra Vista operations over the next few months.

1. This would allow us to quickly close out this agreement and you would be "off the hook."
2. We have decided to use asphalt for the Ocotillo Road project, so the need for AB and Chips in this area is not as urgent at this time.
3. We have need for AB and Chips in the Sierra Vista area for this summer's chip seal program and we are short of funding – so this opportunity to collect the "free" material from you would help us out.

Please give my operations Manager, Butch Hammett, a phone call at 520-432-9343, and discuss the details. Field Superintendent Frank Molina will be the primary one to work with you in the Sierra Vista area.

I'll be out of town and unavailable until March 21st, but I can meet with you then if necessary.

Sincerely,

Scott Dalrymple, P.E., CFM
County Engineer

MAR 02 2007

Telephone: (520) 432-9300
Fax: (520) 432-9337
Fax: (520) 432-9338
Toll Free: 1-800-752-3745

COCHISE COUNTY
HIGHWAY AND FLOODPLAIN DEPARTMENT
1415 MELODY LANE, BLDG. F
BISBEE, AZ 85603



Your County Questions Answered: www.cochisecounty.com

September 6, 2005

Dr. Paula Tyler
1638 N. Cascabel Road
Benson, AZ 85602

REFERENCE: Agreement with County and Huachuca Concrete-Ocotillo Road

Dear Dr. Tyler:

As we discussed, please find the enclosed executed agreement between Cochise County and Huachuca Concrete in reference to the weight limit issue on Ocotillo Road.

Please note on page 1, under "Recitals", paragraph 4, the last sentence should read: "...from Aviation Drive near Interstate 10..." The County Attorney's office is aware of this.

As we also discussed, the Engineer Report from Allon Owen will not be ready for at least another three weeks.

As I know all of the residents on Ocotillo Road have been waiting for the signed contract, please make copies as necessary for each interested property owner.

As always, please call me either here or in Benson (586-8283) if I can be of any further assistance.

Sincerely,

Sandy Davis
Administrative Services Manager

Enclosures

SD/ph

AGREEMENT FOR REMOVING WEIGHT LIMIT ON OCOTILLO ROAD
And
SUPPLYING COUNTY WITH MATERIALS TO IMPROVE OCOTILLO ROAD

This Agreement is hereby entered into by and between Huachuca Concrete, Inc., an Arizona corporation, hereinafter "Huachuca Concrete," and the County of Cochise, a political subdivision of the State of Arizona, hereinafter "the County."

RECITALS

WHEREAS, pursuant to its authority under the applicable laws of this state, including ARS §§ 28-1106.C, -627 and -643, and Resolution 93-38, the County placed a twelve (12) ton gross vehicle weight restriction upon the use of a certain County highway located north of Benson, Arizona, designated as Ocotillo Road; and

WHEREAS, the County placed the weight restriction on Ocotillo Road based upon the structural condition of Ocotillo Road, and as believed necessary to protect the subject roadway, and allow the roadway to be used in a manner that is reasonably safe for public travel; and

WHEREAS, Huachuca Concrete owns a property in which they intend to establish a commercial sand and gravel operation/business off of Ocotillo Road, and desires to use trucks to haul rock aggregate products with weights that will exceed the twelve (12) ton limit; and

WHEREAS, the County Engineer has determined that Ocotillo Road may be safely used by trucks with weights such as those Huachuca Concrete proposes to use, and be adequately protected from damage, if Ocotillo Road is improved by increasing the depth of the aggregate base course and widening the road to twenty eight (28) feet, (two twelve foot travels lanes and two foot paved shoulders on each side), for the seven mile stretch of Ocotillo Road extending from Airport Road near Interstate 90 to just north of the Willow Lakes subdivision; and

WHEREAS, to facilitate said improvement of Ocotillo Road, Huachuca Concrete has agreed to provide the County with 20,000 tons of AB (aggregate base) and 2,400 tons of rock chips; and

WHEREAS, this agreement is in the best interests of the County and its citizens and includes appropriate conditions which the parties believe to be sufficient to protect the subject roadway, provide for its repair, and allow this road to be used in a manner that is reasonably safe for public travel,

AGREEMENT

NOW THEREFORE, in consideration of the premises and mutual agreements, covenants and promises contained in this Agreement, the parties hereby agree as follows:

1. **Materials to Improve the Road Structure.** To facilitate improvements to Ocotillo Road, and as compensation for damages to the road structure that will result from the operation of excess weight vehicles, Huachuca Concrete shall provide to the County, without charge, the following materials:

- a. 20,000 tons of Aggregate Base material, meeting standard County specifications.
- b. 2,400 tons of rock chips, 3/8 inch diameter, meeting standard County specifications.

These materials will be provided to the County from the Huachuca Concrete pit on Ocotillo Road and placed in County vehicles at that site. The County will be responsible for transportation costs from that location. In the event that this delivery is not possible for any reason, Huachuca Concrete will be responsible for providing these materials from another pit (either its own, or operated by another company), or providing the equivalent cash value of these materials, together with any additional costs that the County may have to assume for the delivery of alternative materials from another location. If Huachuca Concrete fails to timely supply the above materials as requested by the County, the Board by Resolution may re-impose a weight restriction as it deems fit.

2. **Timing of Improvements and Need of Materials.** It is understood that the County intends to use these materials in improving Ocotillo Road sometime between 2006 and 2008, and therefore Huachuca Concrete will need to supply them during such time. However, it is also understood that when the County can improve Ocotillo Road may depend on other road work requirements that cannot be determined in advance. Consequently, Huachuca Concrete will supply these materials at any time during the seven (7) year term of this Agreement as requested by the County. The County will provide Huachuca Concrete with its annual work plan each year, when this is available, and will advise Huachuca Concrete of the time and amount of materials that will be required each year as soon as this can be determined.

2.1 **Acceleration/Turn Lane & Driveway Apron.** Huachuca Concrete agrees to design and construct an acceleration/turn lane on Ocotillo Road at the entrance to their property. They will also construct an apron at the driveway entrance onto Ocotillo Road that equals or exceeds the quality of Ocotillo Road. Both will be done at the sole cost and expense of Huachuca Concrete, and both shall be designed and constructed in accordance with the *Cochise County Road Design and Construction Standards and Specifications* and shall be stamped by a registered engineer. ~~Huachuca Concrete~~ Huachuca Concrete shall obtain a right of way permit before commencing construction.

3. **Lifting Weight Limits.** The twelve (12) ton weight limit on Ocotillo Road shall be removed upon completion of the driveway apron and acceleration/turn lane and approval by the County Engineer. It is understood that removal of the weight limit restriction applies not just to Huachuca Concrete and its customers, but to all vehicle traffic on Ocotillo Road. The weight limits set forth in ARS § 28-1100 shall apply. It is further understood that prior to lifting the weight limit, Huachuca Concrete will need to use construction equipment that will exceed the weight limit in order to construct the traffic land and apron. For this purpose, and this purpose only, the County will issue permits for overweight vehicles in accordance with its customary practice.

4. **Public Safety Requirements.** It is understood by the parties that notwithstanding this Agreement, if the County Engineer, in consultation with the Board of Supervisors, after having had opportunity to observe the effects of increased travel on Ocotillo Road and by vehicles with gross weight in excess of twelve (12) tons, determines that Ocotillo Road is not reasonably safe for travel, may re-impose weight limits or other restrictions as deemed appropriate. Otherwise, the County Engineer shall review Ocotillo Road seven (7) years after approval of this Agreement to determine what restrictions or improvements are appropriate given the condition of Ocotillo Road, the effects on it, expected travel and use, and other factors.

5. **Securing Loads.** No vehicle shall be operated on Ocotillo Road unless the load is properly secured to prevent spillage and any covering is securely fastened so as to prevent the load or covering from becoming loose, detached or in any manner a hazard to other users of the road.

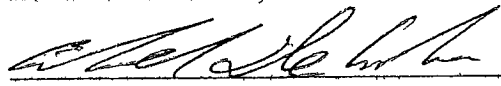
6. **No Limit on the Exercise of Governmental Authority.** This Agreement does not limit the lawful authority of the Cochise County Board of Supervisors to regulate the manner in which the public roads, including Ocotillo Road, which are subject to its jurisdiction are used and improved, nor shall it limit the Board's authority to adopt such policies and regulations as may be required by future circumstances.

7. **Term.** This Agreement shall remain in full force and effect for a period of seven (7) years from the date of its approval. This Agreement shall be subject to termination pursuant to A.R.S. § 38-511 in the event of any unlawful conflict of interest.


8. **Entire Agreement.** This Agreement constitutes the full extent of the legally enforceable rights and obligations of the parties. Any of the prior discussions or understandings between these parties that are not expressly incorporated herein are not intended to be terms and conditions of this Agreement. This Agreement may be amended by the parties only by a written document that is signed and approved in the same manner as this Agreement has been approved.

WHEREFORE, this Agreement is hereby approved by the parties, as indicated below.

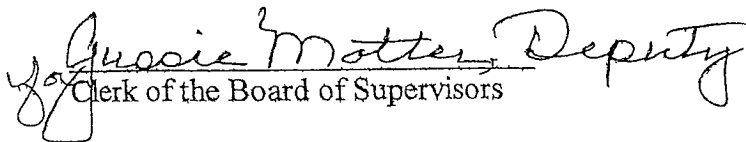
Huachuca Concrete, Inc.


By: Abel DeAnda 8/30/05
Its: President Date

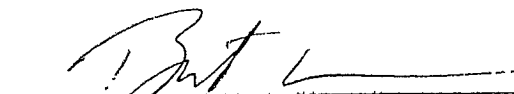
County of Cochise, Arizona


By: Pat Call, Chairman 8/30-05
Cochise County Board of Supervisors Date

ATTEST:


Guccio Motter, Deputy
Clerk of the Board of Supervisors

Approved as to Form:


Britt Hanson, Deputy County Attorney 8/30/05
Date



Cochise County Highway Floodplain Department

Highway Operations Division

1229 W. Hereford Road

Bldg B

Bisbee, AZ 85603

Telephone: 520-432-9340 Fax: 520-432-9358

www.cochisecounty.com

October 18, 2007

Ocotillo Road (724) # CC074 Phase II Repair Pre-Con Meeting

- 1. Permits**
- 2. Traffic control plan**
- 3. Centerline offsets and Blue topping**
- 4. Test results**
- 5. Bomag (dept)**
- 6. Material (AB)**
- 7. Compaction testing (base & sub-base)**
- 8. Paving**
- 9. Striping**

Hammett, Butch

From: Owen, Allon
Sent: Wednesday, October 10, 2007 11:02 AM
To: Perez, Rorri; Dotson, Jimmy
Cc: Hammett, Butch; Morris, Patricia
Subject: PIF Ocotillo Rd mp 0.0-1.0 AC repair.doc

Rorri, please prepare a project file for this project. The PIF is currently residing in the "Unassigned PIF's" file in Project Management. It should then be given to Jimmie.

Jimmie, Patricia has asked that you schedule a pre-construction project meeting for next week for key personnel.

Hammett, Butch

From: Owen, Allon

Sent: Wednesday, October 10, 2007 10:57 AM

To: Morris, Patricia, Hammett, Butch; Ellis, Ronald; Dotson, Jimmy, Perez, Rorri, Jacoby, Barry

Subject: PIF Ocotillo Rd mp 0-1.4 & 3-3.5 AC repair.doc

I have prepared the attached PIF to get this project back on track. Patricia has designated Jimmie as the project manager of placing the AB to grade, Ron as project manager of placing 3" of AC on the ABC. I will be the project engineer for the all phases of the project. Any waivers of County standards are to be approved in writing by me.

A contractor has been retained to mix the existing failed AC into the base starting on October 22nd. Ops can then begin to work the sub base and place AB after the milling is done. Survey will provide construction staking including blue topping for the AB.

The new AC surface is to be striped as the final task of this project.



Western Technologies Inc.
The Quality People
Since 1955

3480 South Dodge Boulevard
Tucson, Arizona 85713-5435
(520) 748-2262 • fax 748-0435

FACSIMILE TRANSMITTAL SHEET

TO: Row Ellis

DATE: 10-16-07

COMPANY NAME: COCHISE COUNTY

TELECOPY NUMBER: 520 432 9337
9319

FROM: JUSTIN HEINEKE

RE: PRELIM PAVEMENT SECTION FOR Ocotillo Rd.

CALL ME WITH QUESTIONS.

TOTAL NUMBER OF PAGES INCLUDING COVER SHEET: 2

CONFIRMATION CALL
YES _____ NO X

ORIGINAL WILL FOLLOW BY:

- _____ Regular Mail
- _____ Certified Mail, Return Receipt Requested
- _____ Federal Express, UPS
- _____ Other

ORIGINAL WILL NOT FOLLOW:

IMPORTANT: THIS MESSAGE IS INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTRY TO WHICH IT IS ADDRESSED AND MAY CONTAIN INFORMATION THAT IS PRIVILEGED, CONFIDENTIAL AND EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW. IF THE READER OF THIS MESSAGE IS NOT THE RECIPIENT, OR THE EMPLOYEE OR AGENT RESPONSIBLE FOR DELIVERING THE MESSAGE TO THE INTENDED RECIPIENT, YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPYING OF THIS COMMUNICATION IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS COMMUNICATION IN ERROR, PLEASE NOTIFY US IMMEDIATELY BY TELEPHONE, AND RETURN THE ORIGINAL MESSAGE TO US AT THE ABOVE ADDRESS VIA REGULAR POSTAL SERVICE. THANK YOU.

PLEASE CALL IMMEDIATELY IF THERE ARE ANY PROBLEMS IN RECEIVING THIS TRANSMISSION

Cochise County Highway and Floodplain Dept

Material Cost Summary Report

Reporting Dates All Dates
Material AB- Ocotillo Free Material H
Material Type All Material Types
Location All Locations
Location Type All Location Types
Surface Type All Surface Types
Pavement Type All Pavement Types
Task All Tasks
Task Type All Task Types

Material Code	Material Name	Material Type	Units Used	Cost
S0013	AB- Ocotillo Free Material Huachuca Concret	AB Material	6,184.40 Tons	\$0.00
Material Items	1	Grand Total		\$0.00

11,742.6 Total

Cochise County Highway and Floodplain Dept

Material Cost Summary Report

Reporting Dates All Dates
Material AB-Hauachuca Concrete Occ
Material Type All Material Types
Location All Locations
Location Type All Location Types
Surface Type All Surface Types
Pavement Type All Pavement Types
Task All Tasks
Task Type All Task Types

Material Code	Material Name	Material Type	Units Used	Cost
N0013	AB-Hauachuca Concrete Ocotillo Free Materi	AB Material	5,558.20 Tons	\$0.00
Material Items	1	Grand Total		\$0.00

WT Ref. No. 2927JH153
 October 16, 2007

PRELIMINARY PAVEMENT SECTIONS FOR OCOTILLO ROAD MILEPOST 0 TO 3.5

(not intended for use in final roadway design)

Ocotillo Road – MP 0 to 3.1

Estimated Resilient Modulus = 13253*

Total ESALs (20 yrs) = 1,892,978**

Present Serviceability = 4.2

Terminal Serviceability = 2.8

Reliability = 95%***

Structural Number = 3.21

Alternative No.	Asphalt Concrete Thickness (inches)	Aggregate Base Thickness (inches)	Subbase ⁺ Thickness (inches)
1	3	8	6
2	4	5	6
3	4	10	0
4	5	7	0

Ocotillo Road – MP 3.1 to 3.5

Estimated Resilient Modulus = 4822*

Total ESALs (20 yrs) = 1,251,992**

Present Serviceability = 4.2

Terminal Serviceability = 2.8

Reliability = 95%***

Structural Number = 4.47

Alternative No.	Asphalt Concrete Thickness (inches)	Aggregate Base Thickness (inches)	Subbase ⁺ Thickness (inches)
1	5	11	6
2	6	8	6
3	5	17	0
4	6	13	0

* Resilient modulus estimated from completed lab tests for plasticity and minus 200 sieve. R-value test results pending.

** Total Equivalent Single Axle Loads (ESALs) determined from 2006 traffic count data supplied by Cochise County for Ocotillo Road at Mileposts 0.25 and 3.69.

*** Reliability is 95% for an arterial street. If Ocotillo Road has a different classification, please notify Western Technologies, Inc. immediately.

⁺ Subbase to consist of the existing asphalt concrete and base course. Existing pavement section will be milled and blended.



Western Technologies Inc.
The Quality People
Since 1955

4126 La Linda Way, Suite D
Sierra Vista, Arizona 85635-4696
1520-458-0364 • Fax 159-2539

FACSIMILE TRANSMITTAL SHEET

TO: Ron Ellis DATE: 10-15-07

COMPANY NAME: Co. County

TELECOPY NUMBER: 520 432-9337

FROM: Greg Keller

RE: Only 1 of the 2 met specs.

TOTAL NUMBER OF PAGES INCLUDING COVER SHEET: 3

CONFIRMATION CALL
YES NO

ORIGINAL WILL FOLLOW BY:

-
-
-

Regular Mail
Certified Mail, Return Receipt Requested
Federal Express, UPS
Other:

ORIGINAL WILL NOT FOLLOW:

IMPORTANT: THIS MESSAGE IS INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY TO WHICH IT IS ADDRESSED AND MAY CONTAIN INFORMATION THAT IS PRIVILEGED, CONFIDENTIAL AND EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW. IF THE READER OF THIS MESSAGE IS NOT THE RECIPIENT, OR THE EMPLOYEE OR AGENT RESPONSIBLE FOR DELIVERING THE MESSAGE TO THE INTENDED RECIPIENT, YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPYING OF THIS COMMUNICATION IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS COMMUNICATION IN ERROR, PLEASE NOTIFY US IMMEDIATELY BY TELEPHONE, AND RETURN THE ORIGINAL MESSAGE TO US AT THE ABOVE ADDRESS VIA REGULAR POSTAL SERVICE. THANK YOU.

PLEASE CALL IMMEDIATELY IF THERE ARE ANY PROBLEMS IN RECEIVING THIS TRANSMISSION

Western Technologies Inc.
The Quality People
Since 1955

4126 La Linda Way, Suite D
Sierra Vista, Arizona, 85635-4696
(520) 458-0364 • Fax 459-2539

PHYSICAL PROPERTIES OF SOILS & AGGREGATES

Client **COCHISE COUNTY HIGHWAY ADMIN & FLOODPLAIN**
1415 W. MELODY LANE BLDG B
BISBEE, AZ 85603

Date of Report **10-15-07**
Job No. **2957JC030**
Event / Invoice No. **70466-2**
Authorized by **RON ELLIS**
Sampled by **STAVAREK/WT**
Submitted by **STAVAREK/WT**
Lab No. **478**
Date **10-09-07**
Date **10-09-07**
Date **10-09-07**

Project **ANNUAL TESTING**
Contractor --
Type / Use of Material **ABC/BENEATH ROADWAY**
Sample Source / Location **STOCKPILE AT AZ CON AGG. ***
Testing Authorized **MOISTURE DENSITY RELATIONSHIP, PLASTICITY INDEX, SIEVE ANALYSIS**
Special Instructions :

Location **OCOTILLO ROAD**
Arch. / Engr. --
Supplier / Source **AZ CON/AGG/BENSON PLANT**
Source / Location Desig. By **CLIENT**
Date **10-09-07**

TEST RESULTS

SIEVE ANALYSIS : ASTM C136 FINER THAN NO. 200 : ASTM C117			LABORATORY COMPACTION CHARACTERISTICS ASTM D698 METHOD C				
SIEVE	ACCUMULATIVE % PASSING	SPECIFICATION	DRY UNIT WEIGHT, LBF/FT ³		MOISTURE, % DRY WEIGHT		
4					SAMPLE PREPARATION <input checked="" type="checkbox"/> WET <input type="checkbox"/> DRY RAMMER USED. <input checked="" type="checkbox"/> 2 IN. CIRCULAR FACE <input type="checkbox"/> OTHER <input type="checkbox"/> MECHANICAL <input checked="" type="checkbox"/> MANUAL		
3					MAXIMUM DENSITY, LBF/FT ³ → 130.5 OPTIMUM MOISTURE CONTENT, % → 8.5		
2					OVERSIZE AGGREGATE : ASSUMED BULK SPECIFIC GRAVITY : 2.65 ASSUMED ABSORPTION, % : 1.0 % OVERSIZE IN LAB SAMPLE : 6		
1 1/2					ASSUMED SPECIFIC GRAVITY IN ZERO AIR VOID CURVE : 2.65		
1 1/4		100			CORRECTION OF MAXIMUM UNIT WEIGHT & OPTIMUM MOISTURE CONTENT FOR OVERSIZE PARTICLES : ASTM D4718		
1	100				CORR. MAXIMUM DENSITY, LBF/FT ³ : 132.2 CORR. OPTIMUM MOISTURE, % : 8.4		
3/4	94						
1/2	78						
3/8	72						
1/4	64						
No 4	59	38-65					
8	47	25-60					
10	45						
16	35						
30	22	10-40					
40	18						
50	14						
100	8						
200	6.0	3-12					
TEST PROCEDURE			RESULT	SPECS	TEST PROCEDURE	RESULT	SPECS
LIQUID & PLASTIC PROPERTIES AASHTO T89, 90 METHOD B LIQUID LIMIT → ESTIMATED % RETAINED ON NO 40 0 PLASTIC LIMIT → SAMPLE AIR DRIED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO PLASTICITY INDEX →			NP	MAX 5	RESISTANCE TO DEGRADATION OF SMALL-SIZE COARSE AGGREGATES BY ABRASION : GRADING 100 REV, % LOSS → GRADING 600 REV, % LOSS →		
MOISTURE CONTENT : PORTION TESTED % DRY WEIGHT →					SPECIFIC GRAVITY : MAX PARTICLE SIZE, IN. SPECIFIC GRAVITY @ 20°C →		
EXPANSION / COMPRESSION PROPERTIES OF COHESIVE SOIL : WT PROCEDURE <input type="checkbox"/> EXPANSION <input type="checkbox"/> COMPRESSION, % → MAXIMUM SWELL PRESSURE, KSF → SURCHARGE, KSF INITIAL WATER CONTENT, % DRY DENSITY, PCF					pH DETERMINATION : pH → SOLUBLE SALTS : PPM → MINIMUM RESISTIVITY : OHM-CM →		
SOIL CLASSIFICATION : ASTM D2487			GROUP SYMBOL SP-SM NAME: POORLY GRADED SAND WITH SILT AND GRAVEL				

Comments : *IN BENSON, N OF CRUSHER

Copies to CLIENT (2)

THE SERVICES REFERRED TO HEREIN WERE PERFORMED IN ACCORDANCE WITH THE STANDARD OF CARE PRACTICED LOCALLY FOR THE REFERENCED METHOD(S) AND RELATE ONLY TO THE CONDITION(S) OR SAMPLE(S) TESTED AS STATED HEREIN. WESTERN TECHNOLOGIES INC. MAKES NO OTHER WARRANTY OR REPRESENTATION, EXPRESSED OR IMPLIED, AND HAS NOT CONFIRMED INFORMATION INCLUDING SOURCE OF MATERIALS SUBMITTED BY OTHERS.



4126 La Linda Way, Suite D
Sierra Vista, Arizona, 85635-4696
(520) 458-0364 • fax 459-2539

**PHYSICAL PROPERTIES
OF SOILS & AGGREGATES**

Client **COCHISE COUNTY HIGHWAY ADMIN & FLOODPLAIN**
1415 W. MELODY LANE BLDG B
BISBEE, AZ 85603

Date of Report **10-15-07**

Job No. **2957JC030**

Event / Invoice No. **70466-1**

Lab No. **477**

Authorized by **RON ELLIS**

Date **10-09-07**

Sampled by **STAVAREK/WT**

Date **10-09-07**

Submitted by **STAVAREK/WT**

Date **10-09-07**

Project **ANNUAL TESTING**

Location **OCOTILLO ROAD**

Contractor --

Arch. / Engr. --

Type / Use of Material **ABC/BENEATH ROADWAY**

Supplier / Source **UNKNOWN**

Sample Source / Location **300'W OF NWC OF COCHISE COUNTY***

Source / Location Desig. By **CLIENT**

Date **10-09-07**

Testing Authorized : **PLASTICITY INDEX, SIEVE ANALYSIS**

Special Instructions .

TEST RESULTS

SIEVE ANALYSIS ASTM C136 FINER THAN NO. 200 : ASTM C117			LABORATORY COMPACTION CHARACTERISTICS		METHOD			
SIEVE	ACCUMULATIVE % PASSING	SPECIFICATION	DRY UNIT WEIGHT, LBF/FT ³		SAMPLE PREPARATION: <input type="checkbox"/> WET <input type="checkbox"/> DRY			
4							RAMMER USED:	
3							<input type="checkbox"/> 2 IN CIRCULAR FACE <input type="checkbox"/> OTHER	
2							<input type="checkbox"/> MECHANICAL <input type="checkbox"/> MANUAL	
1 1/2							MAXIMUM DENSITY, LBF/FT ³ →	
1 1/4	100	100					OPTIMUM MOISTURE CONTENT, % →	
1	95						OVERSIZE AGGREGATE :	
3/4	80						BULK SPECIFIC GRAVITY	
1/2	66						ABSORPTION, %	
3/8	61						% OVERSIZE IN LAB SAMPLE :	
1/4	56				SPECIFIC GRAVITY IN			
No 4	53	38-65			ZERO AIR VOID CURVE			
8	50	25-60						
10	49							
16	46							
30	41	10-40						
40	38							
50	34							
100	24							
200	16	3-12						
				MOISTURE, % DRY WEIGHT				
TEST PROCEDURE				RESULT	SPECS	TEST PROCEDURE	RESULT	SPECS
LIQUID & PLASTIC PROPERTIES : AASHTO T89, 90						RESISTANCE TO DEGRADATION OF SMALL-SIZE COARSE AGGREGATES BY ABRASION :		
METHOD B LIQUID LIMIT →				21		GRADING 100 REV, % LOSS →		
ESTIMATED % RETAINED ON NO. 40 D PLASTIC LIMIT →				19		GRADING 500 REV, % LOSS →		
SAMPLE AIR DRIED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO PLASTICITY INDEX →				2	MAX 5			
MOISTURE CONTENT :						SPECIFIC GRAVITY :		
PORTION TESTED % DRY WEIGHT →						MAX. PARTICLE SIZE, IN, SPECIFIC GRAVITY @ 20°C →		
EXPANSION / COMPRESSION PROPERTIES OF COHESIVE SOIL :						pH DETERMINATION :		
WT PROCEDURE <input type="checkbox"/> EXPANSION <input type="checkbox"/> COMPRESSION, % →						pH →		
MAXIMUM SWELL PRESSURE, KSF →						SOLUBLE SALTS		
SURCHARGE, KSF						PPM →		
INITIAL WATER CONTENT, % DRY DENSITY, PCF						MINIMUM RESISTIVITY :		
						OHM-CM →		
SOIL CLASSIFICATION : ASTM D2487				GROUP SYMBOL. GM				
				NAME SILTY GRAVEL WITH SAND				

Comments : *YARD AT ELFRIDA

Copies to CLIENT - (2)

THE SERVICES REFERRED TO HEREIN WERE PERFORMED IN ACCORDANCE WITH THE STANDARD OF CARE PRACTICED LOCALLY FOR THE REFERENCED METHOD(S) AND RELATE ONLY TO THE CONDITION(S) OR SAMPLE(S) TESTED AS STATED HEREIN. WESTERN TECHNOLOGIES INC. MAKES NO OTHER WARRANTY OR REPRESENTATION EXPRESSED OR IMPLIED, AND HAS NOT CONFIRMED INFORMATION INCLUDING SOURCE OF MATERIALS SUBMITTED BY OTHERS

REVIEWED BY

Cochise County Highway and Floodplain Dept

Material Cost by Location - Summary Report

Reporting Dates 03/01/2007 10/17/2007
Material AB- Ocotillo Free Material Huachi
Material Type All Material Types
Location All Locations
Location Type All Location Types
Surface Type All Surface Types
Pavement Type All Pavement Types
Task All Tasks
Task Type All Task Types

Material
S0013

AB- Ocotillo Free Material Huachuca Concrete (south)

Location Code	Location Name	Quantity Units	Cost
1501	Cochise County Complex Road	2,565.72 Tons	\$0.00
4004	Fry Townsite Subdivision	25.67 Tons	\$0.00
4008	Holiday Ranch Estates	110.86 Tons	\$0.00
561	Little Michigan Rd	4.37 Tons	\$0.00
4006	Mountain Ranch Estates	1,667.09 Tons	\$0.00
803	Purdy Ln	24.00 Tons	\$0.00
878	San Pedro Av	1,119.70 Tons	\$0.00
888	Sands Ranch Rd	687.91 Tons	\$0.00
Locations: 8	AB- Ocotillo Free Material Huachuca Con	6,205.32 Tons	\$0.00

5558.20

 11763.52

29999.88
 20000.00

 11763.52
 8630.48



**Western
Technologies
Inc.**
The Quality People
Since 1955

3480 South Dodge Boulevard
Tucson, Arizona 85713-5435
(520) 748-2262 • fax 748-0435

September 21, 2007

Cochise County Highway and Floodplains
1415 West Melody Lane, Building B
Bisbee, Arizona 85603

Attn: Ron Ellis

Re: Proposal/Contract
Geotechnical Engineering Services
Ocotillo Road Reconstruction
Ocotillo Road from Milepost 0 to 3.5
Benson, Arizona

Ref. No. 2927PH718

Attached is a contract for providing geotechnical engineering services for the referenced project. Please sign where provided and send a copy back to us. Notice for us to proceed is given upon our receipt of a signed copy. We understand that returning the signed contract will constitute permission by the owner for our entry onto the site

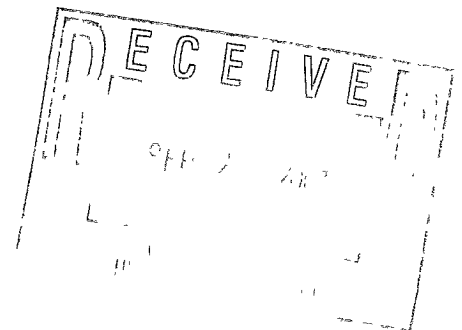
If you should have any questions, please call us at (520) 748-2262.

Respectfully submitted,
WESTERN TECHNOLOGIES INC.
Geotechnical Engineering Services

Justin M. Heinecke, P.E., R.G.
Senior Geotechnical Engineer

for
Jon C. Schwindt, P.E.
Senior Geotechnical Engineer

Copies to: Addressee (1)



3.3 Analyses and Report

We will prepare a geotechnical engineering report that includes a description of the project, a discussion of the field and laboratory testing programs, a discussion of the subsurface conditions, and design recommendations as required to satisfy the purpose previously described.

4.0 SCHEDULE

Weather permitting, we will proceed with the indicated geotechnical engineering services upon receipt of a signed contract with 3 copies of our report submitted three weeks after completion of the fieldwork. If requested, verbal recommendations can be provided before the written report is submitted.

5.0 ASSUMPTIONS

The following assumptions were made in preparation of this proposal:

- Traffic control will be provided by the Client
- A scaled site plan will be supplied by the Client – pdf file preferred
- The site is accessible to two-wheel drive vehicles
- Groundwater will not be encountered
- Any necessary permits will be provided by the Client
- Underground utility lines have been located and marked (WT will contact Blue Stake)

We will contact Arizona Blue Stake prior to mobilizing to the site. This service marks only the primary utility lines in the roadway and dedicated utility easements and usually does not locate tributary lateral lines on private property. WT requires the Client to provide all necessary information and drawings identifying the location of any underground lines or structures that may be on the subject property. The cost of repair of unknown, unmarked, or improperly marked utilities damaged during the work, subsequent loss of service, and damage to WT equipment shall be borne by the Client.

WT assumes that the Client will obtain permission to enter onto the site for our drilling equipment and personnel. Moving the drilling equipment around the site and drilling the borings will leave some areas disturbed. While WT will try to limit site disturbance, our fee does not include re-landscaping or otherwise restoring the site to its original condition. WT's services will include backfilling the borings with the auger cuttings and patching asphalt with cold patch, unless otherwise directed or required. Please inform us if your requirements are any different.

6.0 FEES

The cost of our services, for the scope set forth herein will be a lump sum fee of **\$9800**. Our fee includes discussion and interpretation of our findings with other members of the design team, but does not include meetings concerning construction or changes in design. The fee will not be exceeded unless additional services are agreed upon, or we incur delays or costs associated with access of our equipment to the boring locations. Unless



CONTRACT FOR PROFESSIONAL SERVICES
Ref. No. 2927PH718

BETWEEN: COCHISE COUNTY HIGHWAY AND FLOODPLAINS
1415 West Melody Lane, Building B
Bisbee, Arizona 85603 ("Client")

AND: WESTERN TECHNOLOGIES INC.
3480 South Dodge Boulevard
Tucson, Arizona 85713 ("WT")

FOR THE PROJECT: Geotechnical Engineering Services
Ocotillo Road Reconstruction ("Project")
Ocotillo Road from Milepost 0 to 3.5
Benson, Arizona ("Site")

1.0 PROJECT DESCRIPTION

Based on information provided by the Client, approximately 3.5 miles of Ocotillo Road will be reconstructed. It is understood that the existing asphalt concrete and base course will be milled and blended for use as part of the pavement section. Cochise County has requested that a structural number of at least 1.92 be utilized in the pavement section design. Should any of our information or assumptions not be correct, the Client will notify WT immediately.

2.0 PURPOSE

The purpose of our geotechnical engineering services is to evaluate the on-site subsurface soil conditions and to provide recommendations for earthwork and pavements.

3.0 SCOPE OF SERVICES

3.1 Field Exploration

According to your instructions, WT will advance 37 borings (1 boring for every 500 lineal feet of roadway) to a depth of 5 feet or auger refusal, whichever occurs first. A field specialist will log the borings, record blow counts of penetration tests, and obtain undisturbed and representative samples of soils encountered as conditions dictate.

3.2 Laboratory Testing

A geotechnical engineer will examine the samples and field logs and assign the laboratory tests. The following laboratory tests may be performed:

- Field moisture content (12)
- In-situ soil density (12)
- Minus 200 sieve (18)
- Liquid Limit and Plasticity Index (18)
- R-Value (3)
- Seive analysis (3)

you sign this contract before expiration, the lump sum fee noted above is valid for 90 calendar days, after which time a review by WT will be required.

7.0 MANNER OF PAYMENT

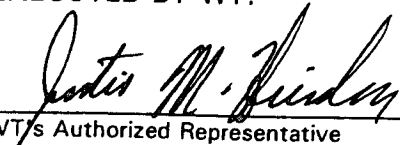
WT will invoice Client for total fees upon completion of services. Full payment is due upon receipt of our invoice.

8.0 NOTICE TO PROCEED

Notice for us to proceed is given upon our receipt of a signed copy of this contract. We understand that returning this signed contract will constitute permission by the owner for our entry onto the site.

The "Standard Terms and Conditions" set forth in WTI Form No. 120 (attached) are applicable and are incorporated herein. The provisions set forth in this Contract and in the Standard Terms and Conditions shall constitute the Contract between Client and WT with respect to the services to be provided.

EXECUTED BY WT:



WT's Authorized Representative

Justin M. Heinecke, P.E., R.G.

Typed or Printed Name

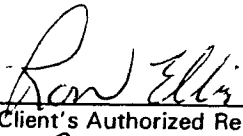
Senior Geotechnical Engineer

Title


September 21, 2007

Date

EXECUTED BY CLIENT:



Client's Authorized Representative



Typed or Printed Name

Inspection & Contract Superintendent

Title

9-25-07

Date



STANDARD TERMS AND CONDITIONS

The Agreement between Western Technologies Inc. ("WT") and Client shall include and be subject to WT's Proposal and these Standard Terms and Conditions. The terms of the Agreement shall prevail over any different or additional terms contained in any document to which WT's work relates. WT's commencement of work shall constitute Client's acceptance of the Agreement.

1. SERVICES

1.1 WT agrees to render such services requested in writing by Client that are stated in the Scope of Services or similar written agreement. WT shall have no responsibility to perform services beyond such requests, and none shall be imputed or implied.

1.2 The services rendered by WT are for the benefit of Client alone and relate only to conditions observed at specified locations at the time WT's work is performed. There are no intended third-party beneficiaries to this Agreement, and nothing herein shall create a contractual relationship with or claim or cause of action in favor of a third party against WT.

1.3 The presence of WT's field technicians or representatives, if called for in the Agreement, is for the provision of services hereunder, and does not include supervision or direction of the work of Client or its subcontractors. Neither the presence of, nor any observation or testing by WT personnel shall excuse Client or its subcontractors from any deficiencies in their work.

1.4 When performing its work, WT will take reasonable precautions to avoid damage or injury to subterranean structures or utilities. Client shall indemnify, defend, and hold WT harmless from and against any damages to such structures and utilities that are not called to WT's attention and correctly shown on the plans furnished to WT. It is Client's obligation to contact appropriate utility companies and/or private utility locators for information regarding buried utilities, mark such utilities, and take other precautions to prevent damage or injury.

1.5 Client agrees that if Client commences litigation, mediation, arbitration, or any such proceeding against WT, WT shall have the right to withdraw and terminate ongoing work and services conducted for Client on any contract and project, in which event Client shall pay WT for work and services performed up to the time of termination.

2. PAYMENT

2.1 WT will invoice Client monthly for services performed. Client shall pay such invoices upon receipt without deduction for retention or offset. Failure to pay within 60 days of invoice shall operate to release WT from any and all claims that Client may have; Client further shall have no right to use or rely on any report prepared by WT, and shall return all such reporting to WT. Furthermore, WT shall have the right to immediately terminate and cease performance of all services then being performed for Client on any contract and project until all amounts owed are received by WT. Interest shall accrue on the unpaid balance of any invoice not paid in full within 30 days at the rate of 1.5% per month.

2.2 Estimates of fees are only estimates and shall not be regarded as "lump sum" or "fixed price" or "guaranteed maximum" compensation. Client remains obligated to pay WT's invoices for actual work performed, whether or not the fee estimate is exceeded. For work requested by Client that is additional to or outside the written Scope of Services and/or written service request, Client shall sign such documentation requesting such work or services and process and pay WT's invoices.

3. STANDARD OF CARE

3.1 The services referred to herein will be performed in accordance with the general standard of care practiced locally by providers of such services, and relate only to the conditions observed or samples tested at the time and place reported. WT makes and intends no other warranty or representation, express or implied. WT shall not be responsible for any consequences due to changed conditions or for the failure of any person or entity to perform or install work in accordance with the plans and specifications.

3.2 Soil, subsurface, and groundwater conditions can vary between and among sampling points and with time. WT makes no representation that the points selected for sampling are in any way representative of the entire site or project. Unless circumstances have changed justifying an earlier expiration of validity, geotechnical and earthwork reports are valid for a period of one year from the date of issuance; all other reports, including Phase I reports, are valid for a period of 180 days from the date of issuance.

3.3 Where WT's services involve geotechnical evaluations or field observation of earthwork, grading, filling, or compaction, Client agrees:

3.3.1 WT is not responsible for the manner in which such work is performed;

3.3.2 WT is not responsible for any work performed at any time when WT was not physically present and observing that specific work; and

3.3.3 For continuous observations, Client shall not allow grading, filling, or compaction to be performed at any time that WT is not physically present at the site, and shall restrict the amount and extent of such grading, filling and compaction to that which can be observed by WT at the site.

3.4 WT has no right, duty, or obligation to stop Client's or any of Client's subcontractor's work.

3.5 Client agrees and acknowledges that WT makes no recommendation or opinion other than those set forth in writing and contained in WT's reporting. WT makes no oral recommendations or opinions. Field and lab technicians are not engineers. Client acknowledges and agrees that there will be no express or implied recommendations or opinions of any sort from field or lab technicians.

3.6 Client is obligated to, and shall, directly and specifically notify WT as and when Client wants WT to perform services hereunder. WT shall be subject to no implied duties to observe or test, or to provide reports, other than the actual observation, testing, and reporting performed.

3.7 "Certification" means and implies the expression of professional opinion. It is not a warranty or guaranty.

4. INDEMNITY AND INSURANCE

4.1 NOTWITHSTANDING ANY OTHER PROVISION IN THE PARTIES' AGREEMENT, WT PROVIDES NO INDEMNITY, WARRANTY, OR GUARANTEE, EXPRESS OR IMPLIED, TO CLIENT OR TO ANY OTHER PERSON OR ENTITY.

4.2 Client shall be adequately insured. Client and its insurers jointly and severally waive subrogation against WT and its insurers.

5. LIMITATIONS OF LIABILITY

Client and WT recognize the relative risks and benefits of this Agreement, and agree to the fair allocation of risk between them as follows:

5.1 NOTWITHSTANDING ANY OTHER PROVISION OF THIS AGREEMENT, WT'S TOTAL AGGREGATE LIABILITY TO ANY PERSON OR ENTITY, INCLUDING CLIENT, ON ANY CLAIM, ACTION OR LIABILITY OF ANY KIND OR BASIS WHATSOEVER, IN ANY MANNER ARISING OUT OF THE WORK DONE BY WT SHALL BE STRICTLY LIMITED TO THE GREATER OF \$50,000 OR THE FEE CHARGED FOR WT'S SERVICES HEREUNDER.

5.2 WT shall not be liable for loss of profit, delay, or for any special, incidental, indirect, or consequential damages of any kind, nature or description, from any cause whatsoever.

5.3 No proceeding, action or claim of any kind whatsoever, whether in law or equity, may be brought against WT regarding any work performed by WT, more than four years after the cessation of WT's work.

5.4 EXCEPT FOR ENVIRONMENTAL SERVICES THAT SPECIFICALLY INCLUDE AN INDOOR MOLD SURVEY, NO ACTION OR CLAIM OF ANY KIND WHATSOEVER MAY BE BROUGHT AGAINST WT ARISING OUT OF THE PRESENCE OR EXISTENCE OF MOLD. ALL SUCH ACTIONS ARE ABSOLUTELY BARRED AND CLIENT ABSOLUTELY AND IRREVOCABLY RELEASES WT FROM ALL SUCH CLAIMS AND LIABILITIES.

5.5 No officer, director, principal, employee, or agent of WT shall ever be personally sued, joined, liable, or responsible regarding any claim whatsoever. ALL SUCH ACTIONS ARE ABSOLUTELY BARRED AND CLIENT ABSOLUTELY AND IRREVOCABLY RELEASES SUCH INDIVIDUALS FROM ALL ACTIONS, CLAIMS, LIABILITIES, AND RESPONSIBILITY.

6. HAZARDOUS MATERIALS AND OTHER SITE CONDITIONS

WT does not create, generate, arrange for or transport, dispose, own, or store hazardous materials or operate any such facility in the performance of its work. Client shall maintain possession of and be responsible for the removal and disposal of all hazardous materials including, but not limited to samples, drilling mud, fluids and cuttings, decontamination and well development fluids, and used protective gear and equipment. Client assumes full responsibility for compliance with the provisions of RCRA and any other federal or state statute or regulation governing the handling, treatment, or storage and disposal of hazardous wastes and pollutants. Client shall be solely responsible for notifying all appropriate agencies and prospective buyers of the existence of any hazardous or dangerous materials located on or in the project site, or discovered during the performance of the Agreement, as may be required or advised by such agencies and buyers.

7. PROPERTY

7.1 All work papers (including reports, field notes, laboratory notes, laboratory test data, calculations and other documents prepared by WT), electronic data files and other work product generated by or for WT in connection with the Scope of Work are the property of WT. Samples obtained shall remain the property of Client.

7.2 Client has the right to use the reports, recommendations, design criteria and similar information submitted to it by WT, provided that Client pays WT's invoices. Client expressly agrees that no information produced or provided by WT shall be used for or at any location or for any project or project extension that is not expressly set forth in this Agreement without WT's prior written permission.

7.3 Because data stored on electronic media can deteriorate or be modified without WT's knowledge or control, Client assumes all responsibility for the completeness, correctness, and/or readability of electronic data. Client will indemnify, defend, and hold WT harmless of and from the use of and any reliance upon any part of said electronic data and/or anything generated from them. The controlling document regarding any document prepared by WT shall remain and always be the signed hard-copy paper document, and not any electronic form or format of such document.

7.4 Client shall not assign this Agreement, or any of WT's reporting or work product, without the prior express written consent of WT. Any purported assignment without the prior express written consent of WT shall be null and void.

8. TERMINATION

In addition to termination otherwise authorized by law and equity, this Agreement may be terminated by either party upon providing written notice of termination.

9. WT NOT BOUND

WT shall not be bound by any provision incorporating by reference any contract or term of any contract unless the term or terms incorporated by reference are specifically furnished to WT and are expressly agreed to in a writing signed by WT; any provision or agreement providing for or imposing liquidated damages however described or denominated; any provision waiving any right to a mechanic's lien; any provision conditioning WT's payment for its services upon payment to Client by any third party; or any provision permitting Client to take possession of any property of WT.

10. MEDIATION AND ARBITRATION; FEES AND COSTS

Except for WT's claims for collection of unpaid invoices, which WT may file in any appropriate court, all disputes arising out of the work, including the Agreement, shall first be mediated, and if not so resolved shall be submitted to binding arbitration under the Construction Industry Rules of the AAA. Except for WT's claims for collection of unpaid invoices, concerning which WT shall be entitled to an award of its attorneys' fees and costs, in the event of any claim or dispute resolution proceeding arising out of the work, including the Agreement, each party shall bear its own attorneys' fees, expert and consultant fees, and costs, and each party expressly waives the application of any statute, rule or law entitling the prevailing party to any award of attorneys' fees, expert or consultant fees or costs.



COCHISE COUNTY
HIGHWAY AND FLOODPLAIN DEPARTMENT
MEMORANDUM



MAKING IT BETTER

Your County Questions answered:
www.cochisecounty.com

DATE: January 9, 2007
TO: Rusty Winkler, Superintendent of North Area
FROM: Allon Owen, PE, Operations Engineer *AO*
SUBJECT: Traffic Control Plan for reconstruction of Ocotillo Road.

Background: Ocotillo Road from mp 0.0 to 1.3 and 3.2 to 3.7 is to be reconstructed. The existing chip seal is to be milled and mixed into the sub base, 8" of AB is to be placed on the sub base and surfaced with an armor coat, triple chip seal. This road is a moderate volume, high speed (55+mph), two-lane rural highway with a significant volume of heavy commercial truck traffic.

The work zone will move occupying both north and south bound lanes at times. One lane will generally be left open. When both lanes are occupied temporary bypasses will be constructed on the shoulders. Traffic will be escorted thru the work zone by pilot car whenever work crews are in the work zone. The road will be opened each night with no lane restrictions, however, pavement and pavement markings will be nonexistent.

Traffic on various side roads will be affected as the work zone moves north.

Recommendation:

Ocotillo Road—Signing on both ends of the work zone is to adhere to TA-7 or TA-10 (Figures 6H-7 & 6H-10) of the MUTCD, FHwA, 2003 (see figures attached hereto) during daytime road work. Spacings A, B & C are to be at least 500'. In addition, temporary speed limit signs of 45 mph, 35 mph and 25 mph are to be placed at 250' spacings after the ROAD WORK AHEAD signs and ahead of the FLAGGER AHEAD 500 FEET signs.

During times when the work zones are not occupied the FLAGGER AHEAD signs are to be removed and NO CENTER STRIPE signs are to be placed 250' ahead of END OF PAVEMENT SIGNS. Vertical Panels shall be placed where pavement and pavement markings have been removed. The vertical panels are to be placed at 40' spacings in the taper and 80' spacings in the tangent sections. The vertical panels shall each have a steady burn warning light. END ROAD WORK signs should be placed on both ends of the work zones. All work zone signing to be left in place at night is to have flagging attached thereto. All work zone signing and lighting are to be checked each day and night during construction.

Side roads—Signing on the intersecting roads is to include a FLAGMAN AHEAD sign place within 100' of the intersection.

Figure 6H-7. Road Closure with Diversion (TA-7)

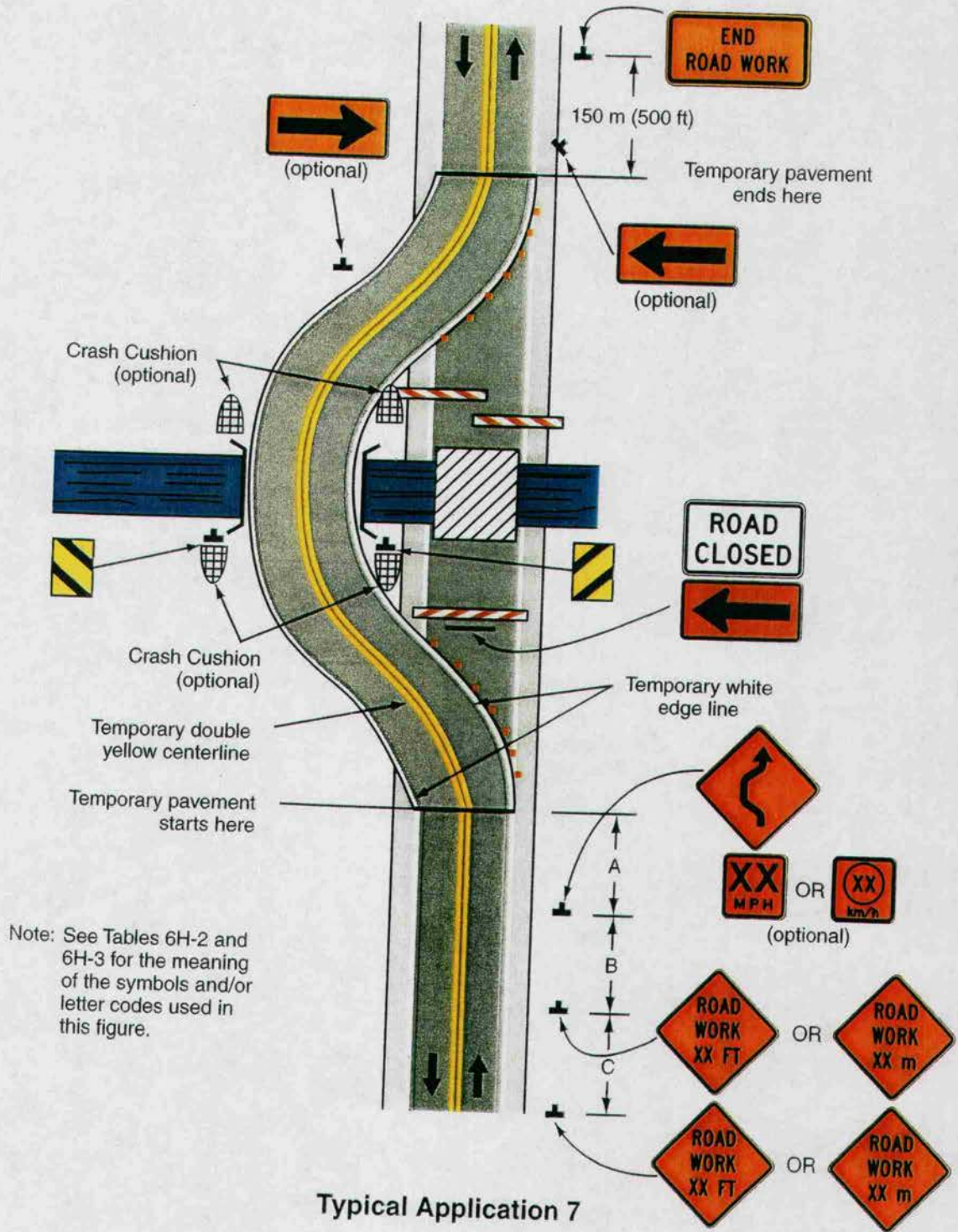
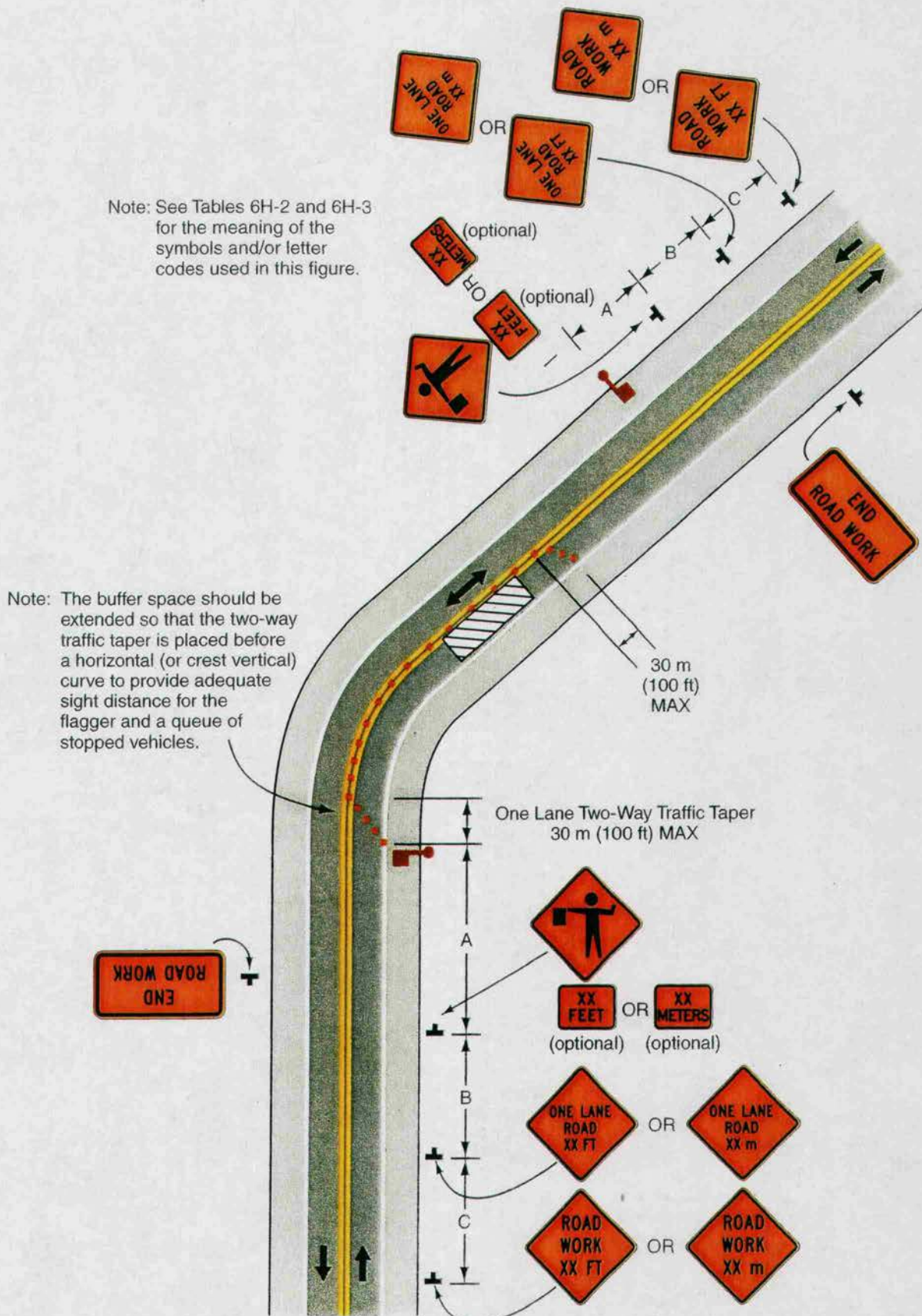
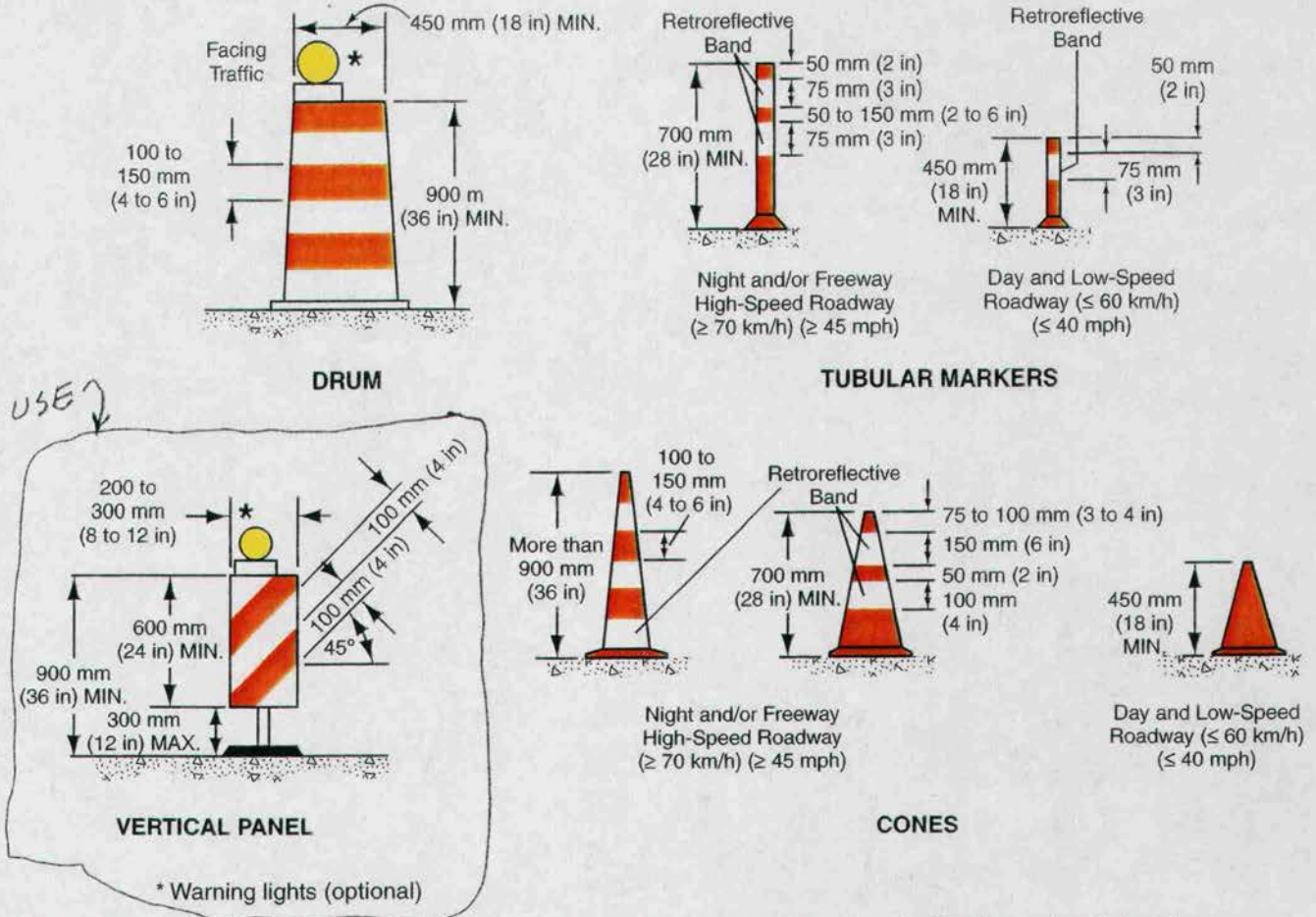


Figure 6H-10. Lane Closure on Two-Lane Road Using Flaggers (TA-10)



Typical Application 10

Figure 6F-7. Channelizing Devices (Sheet 1 of 2)



Note: If drums, cones, or tubular markers are used to channelize pedestrians, they shall be located such that there are no gaps between the bases of the devices, in order to create a continuous bottom, and the height of each individual drum, cone, or tubular marker shall be no less than 900 mm (36 in) to be detectable to users of long canes.

Section 6F.60 Tubular Markers

Standard:

Tubular markers (see Figure 6F-7, Sheet 1 of 2) shall be predominantly orange and shall be not less than 450 mm (18 in) high and 50 mm (2 in) wide facing road users. They shall be made of a material that can be struck without causing damage to the impacting vehicle.

Tubular markers shall be a minimum of 700 mm (28 in) in height when they are used on freeways and other high-speed highways, on all highways during nighttime, or whenever more conspicuous guidance is needed.

For nighttime use, tubular markers shall be retroreflectorized. Retroreflectorization of 700 mm (28 in) or larger tubular markers shall be provided by two 75 mm (3 in) wide white bands placed a maximum of 50 mm (2 in) from the top with a maximum of 150 mm (6 in) between the bands.

Guidance:

Tubular markers should not be used for pedestrian channelization or as pedestrian barriers in TTC zones on or along sidewalks unless they are continuous between individual devices and detectable to users of long canes.

Tubular markers have less visible area than other devices and should be used only where space restrictions do not allow for the use of other more visible devices.

Tubular markers should be stabilized by affixing them to the pavement, by using weighted bases, or weights such as sandbag rings that can be dropped over the tubular markers and onto the base to provide added stability. Ballast should be kept to the minimum amount needed.

Telephone: (520) 432-9300
Fax: (520) 432-9337
Fax: (520) 432-9338
Toll Free: 1-(800) 752-3745

COCHISE COUNTY

HIGHWAY AND FLOODPLAIN DEPARTMENT

1415 W. MELODY LANE, BISBEE, AZ 85603



Your County Questions answered: www.cochisecounty.com

PUBLIC INFORMATION ANNOUNCEMENT

CONSTRUCTION PROJECT

This notice is to inform the traveling public that the Cochise County Highway/Floodplain Department will be reconstructing North Ocotillo Road from MP 0 to MP 1.3.

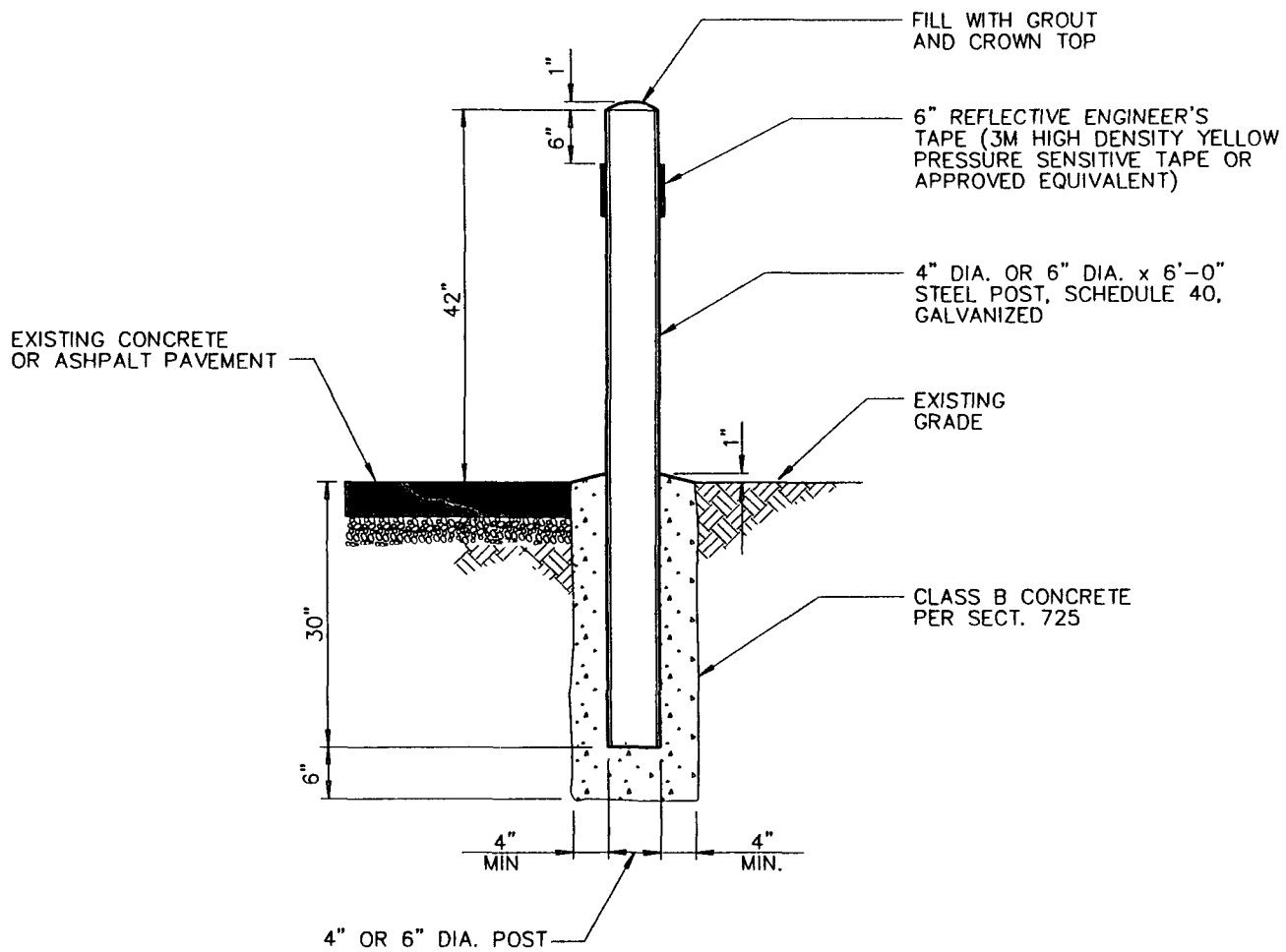
CONSTRUCTION START DATE: Monday, January 29, 2007
APPROXIMATE END DATE: Thursday, March 1, 2007
TIMES OF CONSTRUCTION: 7:00AM to 3:30PM Monday thru Thursday

Flaggers and pilot cars will be present and will make every effort to continue the traffic flow as smoothly as possible, but ***please expect approximately 5 minute delays.***

Please drive carefully and adhere to all traffic devices.

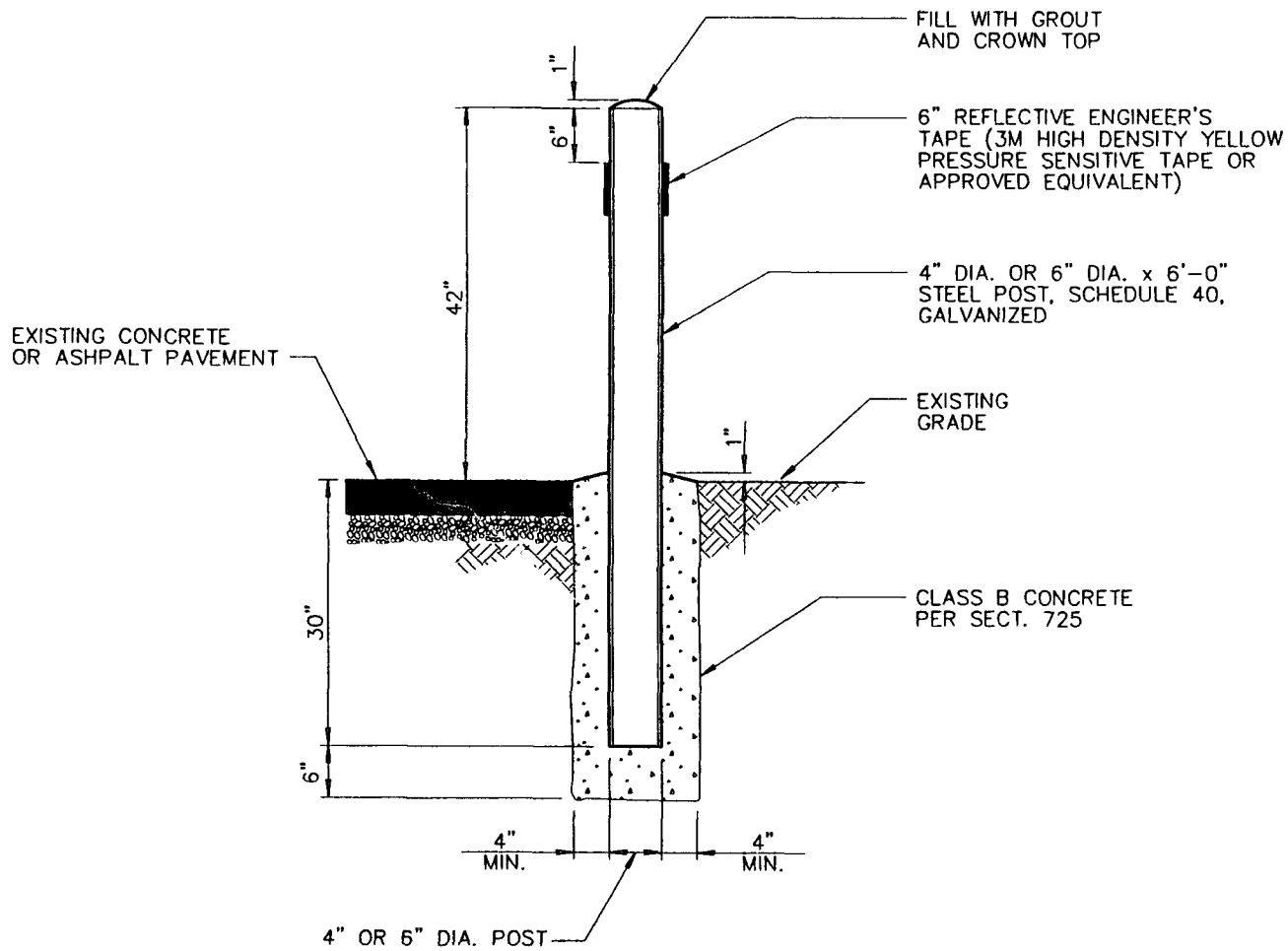
If the public has any questions concerning this project, please contact:

Rusty Winkler, Highway Superintendent - North
Cochise County Highway/Floodplain Department
Office: 520-384-7173 or 520-432-9300



SAFETY POST SECTION

DETAIL NO. 140	 STANDARD DETAIL ENGLISH	SAFETY POST	REVISED	DETAIL NO 140
--------------------------	--	--------------------	---------	-------------------------



SAFETY POST SECTION

DETAIL NO.

140



STANDARD DETAIL
ENGLISH

SAFETY POST

REVISED

DETAIL NO.

140

AZ CON AGG

Gradation/Sieve Analysis

LAB #: 307356
 Client: _____
 Project: _____

Sample Date: 10/23/07
 Material: MAG ABC
 QC Tech: L. George
 Sample Location: Benson Plant-Under Belt

Sieve	Weight Retention	% Retention	% Passing	Specs.	ADOT Specs.
2"					
1 1/2"					100
1 1/4"				100	
1	25		100		90-100
3/4	159	10	90		
1/2	229	14	76		
3/8	308	6	70		
1/4	408	8	62		
4	268	6	56	38-65	
Wet wt. before wash					
Pass #4	2827.9	Dry wt. before wash		622.3	
Split		Weight after wash		589.8	
Total	5024.9	Elutriation		32.5	
8	128	12	44	25-60	35-55
10	28	2	42		
16	92	8	34		
30	129	12	22	10-40	
40					
50	113	10	12		
100	71	6	6		
200	22	2.5	3.5	3-12	0-8.0
-200	6.8				
Total	589.8				

Container Identification			
Wet Weight + Container			
Dry Weight + Container			
Weight of Water			
Dry Weight + Container			
Weight of Container			
Weight of Dry Soil			
Weight of Water			
Weight of Dry Soilx100=LL			
Liquid Limit at 25 Taps			
Plastic Limit			
Container Identification			
Wet Weight + Container			
Dry Weight + Container			
Weight of Water			
Weight of Dry Soil			
Weight of Water			
Weight of Dry Soilx100=PL			
Liquid Limit-Plasticity Index=Final Plasticity Index			
FM			
WW-DW/DW=% Moisture		Wet Wt	5108.7
		Dry Wt.	5024.9
		Moist. %	1.7

Sand Equivalent Value

ASTM 02419	AASHTO T176
Sand Reading	
Clay reading	
(S-C) 100=SE	
Average Sand Equivalent Value	

NOTES

8:40

Plant start up 7:30 AM
 speed 6307 PH

AZ CON AGG

Gradation/Sieve Analysis

LAB #: _____
 Client: _____
 Project: _____

Sample Date: 10/23/04
 Material: MAG ABC
 QC Tech: L. George
 Sample Location: Benson Plant-Under Belt

Sieve	Weight Retention	% Retention	% Passing	Specs.	ADOT Specs.																								
2"																													
1 1/2"					100																								
1 1/4"				100																									
1	7		100		90-100																								
3/4	562	10	90																										
1/2	809	15	75																										
3/8	479	8	67																										
1/4	507	9	58																										
4	215	4	54	38-65																									
<table border="1" style="width:100%"> <tr> <td></td> <td colspan="2">Wet wt. before wash</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Pass #4</td> <td>3011.4</td> <td colspan="2">Dry wt. before wash</td> <td>770.6</td> <td></td> </tr> <tr> <td>Split</td> <td></td> <td colspan="2">Weight after wash</td> <td>733.7</td> <td></td> </tr> <tr> <td>Total</td> <td>5553.4</td> <td colspan="2">Elutriation</td> <td>36.9</td> <td></td> </tr> </table>							Wet wt. before wash					Pass #4	3011.4	Dry wt. before wash		770.6		Split		Weight after wash		733.7		Total	5553.4	Elutriation		36.9	
	Wet wt. before wash																												
Pass #4	3011.4	Dry wt. before wash		770.6																									
Split		Weight after wash		733.7																									
Total	5553.4	Elutriation		36.9																									
8	133	9	45	25-60	35-55																								
10	33	3	42																										
16	119	8	34																										
30	158	11	23	10-40																									
40																													
50	172	12	11																										
100	86	6	5																										
200	24	1.8	3.2	3-12	0-8.0																								
-200	8.7																												
Total	733.7																												

Container Identification			
Wet Weight + Container			
Dry Weight + Container			
Weight of Water			
Dry Weight + Container			
Weight of Container			
Weight of Dry Soil			
Weight of Water			
Weight of Dry Soilx100=LL			
Liquid Limit at 25 Taps			
Plastic Limit			
Container Identification			
Wet Weight + Container			
Dry Weight + Container			
Weight of Water			
Weight of Dry Soil			
Weight of Water			
Weight of Dry Soilx100=PL			
Liquid Limit-Plasticity Index=Final Plasticity Index			
FM			
WW-DW/DW=% Moisture	Wet Wt.	5728.6	
	Dry Wt.	5583.9	
	Moist. %	2.6	

Sand Equivalent Value

ASTM 02419	AASHTO T176		
Sand Reading			
Clay reading			
(S-C) 100=SE			
Average Sand Equivalent Value			

NOTES

12:30 pm
second sample
630 + PH

AZ CON AGG

LAB #: 307354
 Client: _____
 Project: _____

Sieve	Weight Retention	% Retention	% Passing	MAG Specs.
2				
1 1/2"				
1 1/4"				100
1	0		100	
3/4	325	6	94	
1/2	671	12	82	
3/8	592	10	72	
1/4	440	8	64	
4	216	4	60	38-65
		Split		1038.0
Pass #4	3369.4	Dry wt. before wash		1038.0
Split		Weight after wash		928.3
Total	5613.4	Elutriation		109.7
8	200	14	46	25-60
10	30	2	44	
16	127	9	35	
30	150	11	24	10--40
40				
50	140	10	14	
100	84	6	8	
200	21	1.7	6.3	3--12
-200	5.3			
Total	757.3			

Gradation/Sieve Analysis

Sample Date: 10/22/07
 Material: MAG AB
 QC Tech: L George
 Sample Location: Benson-Pit Crushing Plant

Container Identification			
Wet Weight + Container			
Dry Weight + Container			
Weight of Water			
Dry Weight + Container			
Weight of Container			
Weight of Dry Soil			
Weight of Water			
Weight of Dry Soilx100=LL			
Liquid Limit at 25 Taps			
Plastic Limit			
Container Identification			
Wet Weight + Container			
Dry Weight + Container			
Weight of Water			
Weight of Dry Soil			
Weight of Water			
Weight of Dry Soilx100=PL			
Liquid Limit-Plasticity Index=Final Plasticity Index	NP		
FM			
WW-DW/DW=% Moisture	Wet Wt	5731.3	
	Dry Wt	5613.4	
	Moist %	2.1	

Sand Equivalent Value

ASTM 02419	AASHTO T176
Sand Reading	
Clay reading	
(S-C) 100=SE	
Average Sand Equivalent Value	

NOTES

12:10 AM

Second Sample

2 Blanks, 1 5/16" Z Screen

Speed- 625 tons per hour

ON-CALL O&T ←

**SOIL / AGGREGATE FIELD UNIT WEIGHT TESTS
NUCLEAR METHOD**

Project / Address DeLillo Rd

Job No. 217736030 Page 1 of 3

Event / Invoice No. _____ Lab No. _____

PROCEDURE / SPECIFICATIONS

Authorized By Ray K... Date 11/6/02

In-Place Unit Weight: ASTM D2922 AASHTO T310 _____ ←

Tested By Steve K... Date 11/6/02

In-Place Moisture, %: ASTM D3017 AASHTO T310 AASHTO T217 ←

Test Locations Designated By Ray K... Date _____

Rock Correction: ASTM D4718 AASHTO T224 ARIZ 227C ← Visual Soil Classification per ASTM D2488 Subgrade ←

TEST NO.	TEST LOCATION	NOTE DATUM BELOW	FILL DEPTH, FT.	ELEV., FT.
1	DeLillo Rd Sta 4+17.5 7' Rd		0	95.9
2	" " Sta 4+11.2 12' Rd		0	95.9
3	" " Sta 4+26.7 7' Rd		0	95.9
4	" " Sta 4+30.0 10' Rd		0	95.9

GAUGE: MAKE Tromp MODEL 3420 SERIAL NO. 27504 STANDARD COUNT: **1** UNIT WEIGHT 2556 **2** H₂O 669 ←

		TEST LOCATION NO. →	1	2	3	4								
DENSITY	PROBE DEPTH		6	6	6	6								
	COUNTS		2065	2230	2057	2079								
	3 COUNT AVERAGE													
	DENSITY RATIO													
MOISTURE	COUNTS		102	97	128	117								
	4 COUNT AVERAGE													
	MOISTURE RATIO													
5 WET UNIT WEIGHT, LBF / CU. FT.	FROM CALIBRATION CHART OR READOUT →		131.3	128.0	131.9	130.8								
6 WATER, LBF / CU. FT.	→		8.1	7.1	10.5	7.5								
7 SPECIFIC GRAVITY OF +NO. 4 MATERIAL	<input checked="" type="checkbox"/> ASSUMED <input type="checkbox"/> TESTED		2.58	2.58	2.58	2.58								
8 ABSORPTION +NO. 4 MATERIAL	<input checked="" type="checkbox"/> ASSUMED <input type="checkbox"/> TESTED		1.0	1.0	1.0	1.0								
9 WET WEIGHT OF SAMPLE, LBF.	→		10.0	10.0	10.0	10.0								
10 WET WEIGHT OF OVERSIZE MATERIAL	<input checked="" type="checkbox"/> +NO. 4 <input type="checkbox"/> 3/8 IN. <input type="checkbox"/> 3/4 IN. →		1.0	1.0	1.0	1.0								
11 P _C % COARSE FRACTION	(10 + 9) X 100 →		10	10	10	10								
12 P _F % FINE FRACTION	100 - 11		90	90	90	90								
13 OPTIMUM MOISTURE (LAB), % OF DRY UNIT WEIGHT	→		9.9	9.9	9.9	9.9								
14 MAXIMUM DRY UNIT WEIGHT (LAB), LBF / CU. FT.	→		123.6	123.6	123.6	123.6								
15 CORRECTED MAXIMUM DRY UNIT WEIGHT, LBF / CU. FT.	NOTE: FORMULA OR CHART		126.5	126.5	126.5	126.5								
16 CORRECTED OPTIMUM MOISTURE, %	NOTE: AASHTO NOT CORRECTED		9.0	9.0	9.0	9.0								
17 DRY UNIT WEIGHT, LBF / CU. FT.	READOUT OR 5 - 6		123.3	120.6	121.4	121.3								
18 REPORT % MOISTURE, TOTAL SAMPLE	READOUT OR (6 + 17) X 100		6.5	5.9	8.6	7.8								
RELATIVE COMPACTION, %	READOUT OR (17 + 15) X 100		97	95	96	96								
CONFORMANCE INDICATED?			Y	N	15	Y	N	15	Y	N	15	Y	N	15
COMMENTS*	→		21 02 16											

PROCTOR USED / CORRECTION

White - File After Processing Final Report; Yellow - Preliminary Field Copy, Subject To Review

***COMMENTS**

- 1. Subgrade
- 2. Subbase Fill
- 3. Base Course
- 4. Structure Backfill
- 5. Trench Backfill
- 6. Pipe Bedding
- 7. Embankment Fill
- 8. Below Footing Bottom
- 9. Above Footing Bottom

- 10. _____
- 11. 100% minimum required
- 12. 95% minimum required
- 13. 90% minimum required
- 14. _____ minimum required
- 15. Specification Unknown

16. Test Locations Shown on Accompanying Site Plan

17. Moisture Specification: _____ to _____

18. Maximum Dry Unit Weight: ASTM D698 AASHTO T99
 ASTM D1557 AASHTO T180

METHOD A B C D

19. _____
Datum Finished Pave (100%)

ON-CALL O&T ←

**SOIL / AGGREGATE FIELD UNIT WEIGHT TESTS
NUCLEAR METHOD**

Project / Address Ocotilla Rd Job No. 795770030 Page 2 of 3
Benavente, Ariz Event / Invoice No. _____ Lab No. _____

PROCEDURE / SPECIFICATIONS

In-Place Unit Weight: ASTM D2922 AASHTO T310 _____ ←
 In-Place Moisture, %: ASTM D3017 AASHTO T310 AASHTO T217 ← Test Locations Designated By _____ Date 11/7/01
 Rock Correction: ASTM D4718 AASHTO T224 ARIZ 227C ← Visual Soil Classification per ASTM D2488 Subgrade / Subgrade ←

TEST NO.	TEST LOCATION	NOTE DATUM BELOW	FILL DEPTH, FT.	ELEV., FT.
5	Ocotilla Rd Sta 30+00 12' Rd		Ø	98.9
6	" " Sta 34+75 11' Rd		Ø	98.9
7	" " Sta 40+80 6' Rd		Ø	98.9
8	" " Sta 44+95 5' Rd		Ø	98.9

GAUGE: MAKE Troxler MODEL 3430 SERIAL NO. 27504 STANDARD COUNT: 1 UNIT WEIGHT 2596 2 H₂O 664 ←

TEST LOCATION NO. →		5	6	7	8	
DENSITY	PROBE DEPTH	6"	6"	6"	6"	
	COUNTS	2175	1893	7052	7090	
	3 COUNT AVERAGE					
	DENSITY RATIO					
MOISTURE	COUNTS	90	123	133	117	
	4 COUNT AVERAGE					
	MOISTURE RATIO					
5 WET UNIT WEIGHT, LBF / CU. FT.	FROM CALIBRATION CHART OR READOUT →	129.1	131.9	131.9	130.4	
6 WATER, LBF / CU. FT.	→	7.0	10.5	11.1	9.5	
7 SPECIFIC GRAVITY OF +NO. 4 MATERIAL	<input type="checkbox"/> ASSUMED <input type="checkbox"/> TESTED	2.58	2.58	2.58	2.58	
8 ABSORPTION +NO. 4 MATERIAL	<input type="checkbox"/> ASSUMED <input type="checkbox"/> TESTED	1.0	1.0	1.0	1.0	
9 WET WEIGHT OF SAMPLE, LBF.	→	10.00	10.00	10.00	10.00	
10 WET WEIGHT OF OVERSIZE MATERIAL	<input type="checkbox"/> +NO. 4 <input type="checkbox"/> 3/8 IN. <input type="checkbox"/> 3/4 IN. →	1.00	1.00	1.00	1.00	
11 P _C % COARSE FRACTION (10 + 9) X 100	→	10	10	10	10	
12 P _F % FINE FRACTION 100 - 11		90	90	90	90	
PROCTOR USED / CORRECTION	ID. NO. - LAB MAXIMUM UNIT WEIGHT & OPTIMUM MOISTURE	→	5	5	5	5
	13 OPTIMUM MOISTURE (LAB), % OF DRY UNIT WEIGHT		9.7	9.9	9.9	9.7
	14 MAXIMUM DRY UNIT WEIGHT (LAB), LBF / CU. FT.		173.6	173.6	173.6	173.6
	15 CORRECTED MAXIMUM DRY UNIT WEIGHT, LBF / CU. FT. NOTE: FORMULA OR CHART		176.5	176.5	176.5	176.5
	16 CORRECTED OPTIMUM MOISTURE, % [(13 X 12) + (8 X 11)] + 100 NOTE: AASHTO NOT CORRECTED		9.0	9.0	9.0	9.0
	17 DRY UNIT WEIGHT, LBF / CU. FT. READOUT OR 5 - 6		122.1	124.5	120.8	120.9
	18 REPORT % MOISTURE, TOTAL SAMPLE READOUT OR (6 + 17) X 100		9.7	9.4	9.2	7.9
	RELATIVE COMPACTION, % READOUT OR (17 + 15) X 100		97	98	95	96
	CONFORMANCE INDICATED?		Y N 15	Y N 15	Y N 15	Y N 15
	COMMENTS*	→	211.12 10			

White - File After Processing Final Report; Yellow - Preliminary Field Copy, Subject To Review

*** COMMENTS**

- 1. Subgrade
- 2. Subbase Fill
- 3. Base Course
- 4. Structure Backfill
- 5. Trench Backfill
- 6. Pipe Bedding
- 7. Embankment Fill
- 8. Below Footing Bottom
- 9. Above Footing Bottom
- 10. _____
- 11. 100% minimum required
- 12. 95% minimum required
- 13. 90% minimum required
- 14. _____ minimum required
- 15. Specification Unknown

16. Test Locations Shown on Accompanying Site Plan

17. Moisture Specification: _____ to _____

18. Maximum Dry Unit Weight: ASTM D698 AASHTO T99 ASTM D1557 AASHTO T180 A B C D

19. _____
 Datum 11/11/2001

ON-CALL O&T ←

**SOIL / AGGREGATE FIELD UNIT WEIGHT TESTS
NUCLEAR METHOD**

Project / Address Ocella Rd. Benson, AZ

Job No. 29577030 Page 3 of 3

Event / Invoice No. _____ Lab No. _____

PROCEDURE / SPECIFICATIONS

In-Place Unit Weight: ASTM D2922 AASHTO T310 _____ ←

Authorized By [Signature] Date 11/2/02

In-Place Moisture, %: ASTM D3017 AASHTO T310 AASHTO T217 ←

Tested By [Signature] Date 11/2/02

Rock Correction: ASTM D4718 AASHTO T224 ARIZ 227C ←

Test Locations Designated By [Signature] Date 11/1/02

Visual Soil Classification per ASTM D2488 Subgrade ←

TEST NO.	TEST LOCATION	NOTE DATUM BELOW	FILL DEPTH, FT.	ELEV., FT.
9	Ocella Rd. Sta. 45+60 10' rd		Ø	98.9

GAUGE: MAKE Troxler MODEL 3430 SERIAL NO. 27504 STANDARD COUNT: 1 UNIT WEIGHT 2996 2 H₂O 664 ←

		TEST LOCATION NO. →			
DENSITY	PROBE DEPTH	9	6'		
	COUNTS		1910		
	3 COUNT AVERAGE				
	DENSITY RATIO				
MOISTURE	COUNTS		123		
	4 COUNT AVERAGE				
	MOISTURE RATIO				
5	WET UNIT WEIGHT, LBF / CU. FT.	FROM CALIBRATION CHART OR READOUT →	1345		
6	WATER, LBF / CU. FT.	→	170		
7	SPECIFIC GRAVITY OF +NO. 4 MATERIAL	<input checked="" type="checkbox"/> ASSUMED <input type="checkbox"/> TESTED	2.50		
8	ABSORPTION +NO. 4 MATERIAL	<input checked="" type="checkbox"/> ASSUMED <input type="checkbox"/> TESTED	1.00		
9	WET WEIGHT OF SAMPLE, LBF.	→	10.00		
10	WET WEIGHT OF OVERSIZE MATERIAL	<input checked="" type="checkbox"/> +NO. 4 <input type="checkbox"/> 3/8 IN. <input type="checkbox"/> 3/4 IN. →	1.00		
11	P _C % COARSE FRACTION (10 + 9) X 100	→	10		
12	P _F % FINE FRACTION 100 - 11	→	90		
PROCTOR USED / CORRECTION	ID. NO. - LAB MAXIMUM UNIT WEIGHT & OPTIMUM MOISTURE	→	5		
	13	OPTIMUM MOISTURE (LAB), % OF DRY UNIT WEIGHT	9.9		
	14	MAXIMUM DRY UNIT WEIGHT (LAB), LBF / CU. FT.	1736		
	15	CORRECTED MAXIMUM DRY UNIT WEIGHT, LBF / CU. FT. NOTE: FORMULA OR CHART	1765		
	16	CORRECTED OPTIMUM MOISTURE, % [(13 X 12) + (8 X 11)] + 100 NOTE: AASHTO NOT CORRECTED	9.0		
17	DRY UNIT WEIGHT, LBF / CU. FT. READOUT OR 5 - 6	→	1225		
18	REPORT % MOISTURE, TOTAL SAMPLE READOUT OR (6 + 17) X 100	→	97		
RELATIVE COMPACTION, %		READOUT OR (17 + 15) X 100	97		
CONFORMANCE INDICATED?			Y N 15 Y N 15 Y N 15 Y N 15		
COMMENTS*		→	210 12 18		

White - File After Processing Final Report; Yellow - Preliminary Field Copy, Subject To Review

*** COMMENTS**

- 1. Subgrade
- 2. Subbase Fill
- 3. Base Course
- 4. Structure Backfill
- 5. Trench Backfill
- 6. Pipe Bedding
- 7. Embankment Fill
- 8. Below Footing Bottom
- 9. Above Footing Bottom

- 10. _____
- 11. 100% minimum required
- 12. 95% minimum required
- 13. 90% minimum required
- 14. _____ minimum required
- 15. Specification Unknown

16. Test Locations Shown on Accompanying Site Plan

17. Moisture Specification: _____ to _____

18. Maximum Dry Unit Weight: ASTM D698 AASHTO T99
 ASTM D1557 AASHTO T180

METHOD A B C D

19. _____
Datum Finished Pavement - 1000

COCHISE COUNTY HIGHWAY AND FLOODPLAIN DEPT.
FIELD DENSITY / COMPACTION RESULTS

Project Name:
Material: Native / Select / Aggregate

Tested By: S. SORES Date: 11 / 08 / 07
Grade: Subgrade Finish Grade
OCOTILLO DRIVE

Test #	Station/ Pt.	Offset	Depth (in.)	Max. Dry Density (Proctor)	Optimum Moisture (Proctor)	Wet Density (pcf)	Dry Density (pcf)	% Moisture	% Compaction	Spec.	Pass / Fail	Comments/ Remarks
1	1+92	5' RT	6	118.6 pcf	8.4 %				106.6%		P / F	
2	7+06	8' LT	"	" pcf	" %				104.7%		P / F	
3	14+05	℄	"	" pcf	" %				98.7%		P / F	
4	17+00	4' RT.	"	" pcf	" %				97.9%		P / F	
5	22+94	7' LT.	"	" pcf	" %				108.0%		P / F	
6	26+92	1' LT	"	" pcf	" %				101.3%		P / F	
7	32+00	5' RT.	"	" pcf	" %				106.4%		P / F	
8	37+01	4' LT.	"	" pcf	" %				101.3%		P / F	
9	42+05	℄	"	" pcf	" %				98.9%		P / F	
10	47+00	4' RT.	"	" pcf	" %				97.6%		P / F	
11	50+98	3' RT.	"	" pcf	" %				95.1%		P / F	
12				pcf	%						P / F	
13				pcf	%						P / F	
14				pcf	%						P / F	
15				pcf	%						P / F	
16				pcf	%						P / F	
17				pcf	%						P / F	
18				pcf	%						P / F	
19				pcf	%						P / F	
20				pcf	%						P / F	

AZ CON AGG

LAB #: 307400
 Client: _____
 Project: _____

Sieve	Weight Retention	% Retention	% Passing	Specs.
2"				
1 1/2"				
1 1/4"				100
1	0		100	
3/4	852	9	91	
1/2	1983	23	68	
3/8	706	7	61	
1/4	910	11	50	
4	539	6	44	38-65
		Split	954	
Pass #4	3980.0	Dry wt. before wash	954	
Split	954	Weight after wash	882.1	
Total	8970.0	Elutriation	71.9	
8	242	11	33	25-60
10	52	3	30	
16	170	7	23	
30	203	10	13	10--40
40				
50	125	6	7	
100	59	2	5	
200	23	1.3	3.7	3--12
-200	8.1			
Total	882.1			

Gradation/Sieve Analysis

Sample Date: 11/20/07
 Material: MAG ABC
 QC Tech: L. George
 Sample Location: Benson Plant-Crusher

Container Identification			
Wet Weight + Container			
Dry Weight + Container			
Weight of Water			
Dry Weight + Container			
Weight of Container			
Weight of Dry Soil			
Weight of Water			
Weight of Dry Soilx100=LL			
Liquid Limit at 25 Taps			
Plastic Limit			
Container Identification			
Wet Weight + Container			
Dry Weight + Container			
Weight of Water			
Weight of Dry Soil			
Weight of Water			
Weight of Dry Soilx100=PL			
Liquid Limit-Plasticity Index=Final Plasticity Index	NP		
FM			
WW-DW/DW=% Moisture	Wet Wt.		9158.4
	Dry Wt		8970.0
	Moist %		2.1

Sand Equivalent Value

ASTM 02419	AASHTO T176		
Sand Reading			
Clay reading			
(S-C) 100=SE			
Average Sand Equivalent Value			

NOTES
1:00 PM

610 RPM

Notified David of results.

Cochise County Highway & Floodplain
 1415 Melody Lane
 Bisbee, AZ 85603-3090

IGA TIME SHEET/OVERTIME REQUEST FORM

Division: High way & Flood plain

Location: Ocotill Rd

Please Check: IGA Work for Others County

Work Performed: Recycle & RECONSTRUCT

Employee's Name/Number	Friday <i>11-20-07</i>	Saturday <i>11-23-07</i>	Total Hours Worked	Rate (x 1.5)	TOTAL
<i>FRANCISCO CORDOVA</i>	<i>.5</i>	<i>.5</i>	<i>1</i>	<i>21.12</i>	<i>21.12</i>
<i>HELENA MENDEZ</i>	<i>.5</i>	<i>.5</i>	<i>1</i>	<i>18.53</i>	<i>18.53</i>
<i>JAMES HAWCOCK</i>	<i>.5</i>	<i>.5</i>	<i>1</i>	<i>18.12</i>	<i>18.12</i>
<i>Dylan CLEMSON</i>	<i>.5</i>	<i>.5</i>	<i>1</i>	<i>16.24</i>	<i>16.24</i>

James Watson
 Supervisor Signature

Subtotal: 74.01
 Benefits x .2443 _____
 TOTAL LABOR: _____

Department Head Signature & Date

Approved Not Approved

COCHISE COUNTY DAILY WORK SHEET

 ACTIVITY #: **117**

REQUEST/PROJECT #

 DATE: **11-7-07**

 ACTIVITY DESCRIPTION: **Recycle + Reconstruct**

BMP	EMP	ROAD #	ROAD NAME	HOURS	MILES
0	1	724	Ocotillo Road	10	1

 TRAFFIC CONTROL ACTION: **Proper Signs**

 SCOPE OF WORK/COMMENTS: **WORK ON ROAD TO BLUE TOPS
TAKE DRIVEWAYS OUT.**

LABOR				EQUIPMENT							
EMP#	RT	OT	CT	EQUIP#	JOB HRS	HR/METER	DOWN HRS	FUEL	AUX TANK	OIL	
3443	10			11306	6	2065	-	-	-	-	
1829	10			10321	8	480	-	19.0	1322A	-	
2882	10			10303	8	14622	-	19.9	1322A	-	
3848	10			1340	7	74889	-	-	-	-	
3794	10			07304	8	1664					
4987	10			04307	7	1870					
4984	10			07305	8	481					
2821	10	0.5		1324	2	96997					
5279	10	0.5		824	2	1141					
4782	10	0.5		01322	10	155328					
4968	10	0.5		1328	10	115620					
				68601	5	2004					
				68602	5	2520					
				1333	2	97550					
				04310	6	2490					
				1327	10	115020					

MATERIALS

MATERIAL CODE	MATERIAL DESCRIPTION	UNIT	QUANTITY
N1102	Diesel Fuel	Gal	38.9
N0601	Free Water	Gal	22500

ACCOMPLISHMENTS

 QUANTITY: **Repeated**

 WORK UNITS: **Road miles**

 PREPARED BY: Salvador M. Lopez

 DATE: **11-07-07**

 CHECKED BY: [Signature]

 DATE: **11-8-07**

COCHISE COUNTY HIGHWAY MAINTENANCE

EMPLOYEE DAILY WORK SHEET

Date: 11-7-07

EMPLOYEE INFORMATION

Employee Number:	Reg Hrs	OT Hrs	Comp Hrs	Leave Hrs
<u>3794</u>	1		<u>2</u>	

LOCATION OF WORK

Road Number: 724
 Road Name: Ocotillo Rd
 Work Request/Project Number: CC-074

TYPE OF WORK

Activity Code: 915
 Activity Description: Work Zone Sign inspection
 Quantity: 2 Work Units: manday

EQUIPMENT INFORMATION

Equipment Number:	Reg Hrs	Met/Odm	Fuel	Oil	Down Time
<u>01340</u>	<u>2</u>	<u>74897</u>			

MATERIALS USED

Code	Description	Quantity
1		
2		
3		
4		
5		
6		

Comments/Safety Procedures:

Proper Beacon light, personal safety equipment
Drove work zone to check lighting on Barricades
Switched out (5) verticels, straighted lights
on barricades. Had to go back to yard
2 Different Times

Operator Signature: <u>[Signature]</u>	Date: <u>11-7-07</u>
Foreman Signature: <u>[Signature]</u>	Date: <u>11-8-07</u>

COCHISE COUNTY DAILY WORK SHEET

ACTIVITY #: 117 REQUEST/PROJECT # CC-074 DATE: 11-8-07

ACTIVITY DESCRIPTION: Recycle + Reconstruct

BMP	EMP	ROAD #	ROAD NAME	HOURS	MILES
0	1	724	Ocotillo Road	10	1

TRAFFIC CONTROL ACTION: Proper Signs

SCOPE OF WORK/COMMENTS: work on Road getting Approaches Dug out and Filled Back in w/A-B Blade + work Road with water + rollers

LABOR				EQUIPMENT						
EMP#	RT	OT	CT	EQUIP#	JOB HRS	HR/METER	DOWN HRS	FUEL	AUX TANK	OIL
1829	10			10321	8	488	-	23.0	1322A	-
2882	10			10303	8	14629	-	26.0	1328A	-
3443	10			11306	8	2073	-	31.0	1322A	-
3848	10			07304	7	1671				
3794	10			04307	7	1882				
4987	10			04310	7	2493				
4879	10			04305	7	489				
4881	10			1329	3	103510				
4836	10			75	7	284			1328A	
5279	10	.5		04309	7	1316				
2821	10	.5		01328	8	115157				
4968	10	.5		01322	2	155351				
4782	10	.5		04314	7	3038				
4309	10	.5		824	2	1166				
				68601				22.0	1328A	
				68602	5	2052				
				01324	2	97102				
				1333	10	97682				
				1327	10	102875				

MATERIALS			
MATERIAL CODE	MATERIAL DESCRIPTION	UNIT	QUANTITY
N0601	Free Water	Gal	33750
N1102	Diesel Fuel	Gal	114.0 114.0
N0203	Removal of Misc. materials	TONS	375
	Ocotillo A-B	TONS	361.01

ACCOMPLISHMENTS

QUANTITY: Repeats WORK UNITS: Road miles

PREPARED BY: Salvador M. Lopez DATE: 11-8-07

CHECKED BY: Ken H. Kott DATE: 11-9-07

COCHISE COUNTY HIGHWAY MAINTENANCE

EMPLOYEE DAILY WORK SHEET

Date: 11-8-07

EMPLOYEE INFORMATION

Employee Number	Reg Hrs	OT Hrs	Comp Hrs	Leave Hrs
3848			1	

LOCATION OF WORK

Road Number: 724
 Road Name: Ocotillo Rd
 Work Request/Project Number: CC-074

TYPE OF WORK

Activity Code: 915
 Activity Description: Work Zone Sign Inspection
 Quantity: 1 Work Units: Man day

EQUIPMENT INFORMATION

Equipment Number:	Reg Hrs	Met/Odm	Fuel	Oil	Down Time
824	1	1169			

MATERIALS USED

Code	Description	Quantity
1		
2		
3		
4		
5		
6		

Comments/Safety Procedures: Lights, beacon
 traffic watch
 Check Barricades & Verticals

Operator Signature: *Edmund M. [Signature]* Date: 11-8-07
 Foreman Signature: *[Signature]* Date: 11-9-07

Cochise County Highway & Floodplain
 1415 Melody Lane
 Bisbee, AZ 85603-3090

IGA TIME SHEET/OVERTIME REQUEST FORM

Division: HIGHWAY Flood plain

Location: OCOTILLO RD

Please Check. IGA Work for Others County

Work Performed RECYCLE + RECONSTRUCT + WORK ZONE INSPECTION

Employee's Name/Number	Friday <i>11-3-07</i>	Saturday <i>11-6-07</i>	Total Hours Worked	Rate (x 1.5)	TOTAL
SALVADOR COPE	2	1	3	21.56	64.68
HERLINDA MENDEZ	1	1	2	18.53	37.06
JAMES HAWCOCK	1	1	2	18.12	36.24
ROY WATERS	1	1	2	18.85	37.70

James Watson
 Supervisor Signature

Subtotal 176.22
 Benefits x .2443 _____
 TOTAL LABOR. 176.22

 Department Head Signature & Date

Approved Not Approved

COCHISE COUNTY DAILY WORK SHEET

ACTIVITY #: 117 REQUEST/PROJECT # CC-074 DATE: 11-5-07

ACTIVITY DESCRIPTION: Recycle & Reconstruct

BMP	EMP	ROAD #	ROAD NAME	HOURS	MILES
0	1	724	Ocotillo Rd	10	1

TRAFFIC CONTROL ACTION:

SCOPE OF WORK/COMMENTS: Proper Signs, Lights, Cones, Flagers, Pilot Cars, SAFETY Equipment & Barrage and work road

LABOR				EQUIPMENT						
EMP#	RT	OT	CT	EQUIP#	JOB HRS	HR/METER	DOWN HRS	FUEL	AUX TANK	OIL
2882	10			824	2	1113				
1829	10			1340	2	74841				
3848	10			10321	7	463				
3443	10			10313	4	14609				
3794	10			04307	2	1864				
4987	10			16303	2	3931				
4984	5			7305	4	7193				
4968	10	1		1328	10	114701				
4782	10	1		68601	3	1995				
4309	10	1	Rental	75	5	2680				
			Road Fast	1327	11	102509				
				2306	4	71513				
				1322	2	155307				
				10311	4	3772		218.0	1323A	
				1323	2	122780				
				07504	8	1649				

MATERIALS

MATERIAL CODE	MATERIAL DESCRIPTION	UNIT	QUANTITY
N0101	Free water	gal	45000
N0102	Diesel Fuel	gal	48

ACCOMPLISHMENTS

QUANTITY: 0 / WORK UNITS: Rel. miles LAAC miles

PREPARED BY: Kevin H. Rosta DATE: 11-5-07

CHECKED BY: Kevin H. Rosta DATE: 11-6-07

COCHISE COUNTY DAILY WORK SHEET

 ACTIVITY #: 117

 REQUEST/PROJECT # CC-074

 DATE: 11-6-07

 ACTIVITY DESCRIPTION: Recycle + ReConstruct

BMP	EMP	ROAD #	ROAD NAME	HOURS	MILES
0	1	724	Ocotillo Road	10	1

 TRAFFIC CONTROL ACTION: Proper Signs

 SCOPE OF WORK/COMMENTS: Rampag + WORK Road w/water Roller / Pad Foot / Blades.

LABOR				EQUIPMENT						
EMP#	RT	OT	CT	EQUIP#	JOB HRS	HR/METER	DOWN HRS	FUEL	AUX TANK	OIL
1829	10			10321	8	471	-	22.3	1322A	-
2882	10			10303	8	14616	-	19.2	1322A	-
3443	10			824	2	1123	-	-	-	-
3848	10			04304	8	1656	-	-	-	-
3790	10			04307	7	1870	-	-	-	-
4987	10			68601	5	2000	-	16.0	1328A	-
4984	10			75	6	295	-	20.0	1328A	-
2821	10			02306	2	71533	-	-	-	-
4782	10	1		16303	7	3938	-	27.0	1340A	-
4968	10	1		1340	2	74861	-	-	-	-
4309	10	1		1328	9	114888	-	-	-	-
				1322	9	155317	-	-	-	-
				7305	7	81267	-	-	-	-
				1324	7	96926	-	-	-	-
				1333	2	97372	-	-	-	-
				1327	10	102631	-	-	-	-

MATERIALS

MATERIAL CODE	MATERIAL DESCRIPTION	UNIT	QUANTITY
N1102	Diesel Fuel	Gal	104.5
N0601	Water Free	Gal	37500

ACCOMPLISHMENTS

 QUANTITY: Repeated WORK UNITS: Road miles

 PREPARED BY: Salvador M Cape

 DATE: 11-6-07

 CHECKED BY: Kevin H. [Signature]

 DATE: 11-7-07

COCHISE COUNTY HIGHWAY MAINTENANCE

EMPLOYEE DAILY WORK SHEET

Date: *11-6-07*

EMPLOYEE INFORMATION

Employee Number:	Reg Hrs	OT Hrs	Comp Hrs	Leave Hrs
<i>3443</i>	<i>7</i>	<i>1</i>		

LOCATION OF WORK

Road Number: *724*
 Road Name: *Ocotillo Road*
 Work Request/Project Number:

TYPE OF WORK

Activity Code: *915*
 Activity Description: *Work Zone sign Inspection*
 Quantity: *1* Work Units: *Manday*

EQUIPMENT INFORMATION

Equipment Number:	Reg Hrs	Met/Odm	Fuel	Oil	Down Time
<i>01323</i>	<i>1</i>	<i>123792</i>	<i>-</i>	<i>-</i>	<i>-</i>

MATERIALS USED

Code	Description	Quantity
1		
2		
3		
4		
5		
6		

Comments/Safety Procedures: *Checked lights on Barricades on Ocotillo Road for project # CC-074 Between mile post 0 and 1.*

Operator Signature: *Salvador M. Cofre* Date: *11-6-07*
 Foreman Signature: *Kevin H. [Signature]* Date: *11-7-07*

**COCHISE COUNTY HIGHWAY DEPARTMENT LEAVE SHEET
BENSON ROAD YARD**

DATE	EMP.#	NAME	Holi. 905 0.01	Sick 905 0.02	Vac. 905 0.03	Comp Ern.	Comp Used	PD OT	Other	Other
	3443	Cope, Salvador Michael								
	1562	Figueroa, Richard								
	3794	Lopshire, Robert								
11-10-07	4987	Meracle, Timothy				10				
	3848	Meza, Edmundo Barrios								
	1829	Mitchell, Stephen								
10-10-07	2882	Roberts, Kevin H.				10				

Supervisor's Initials: AW Date: 11-11-07

COCHISE COUNTY DAILY WORK SHEET

 ACTIVITY #: 117

REQUEST/PROJECT #

 DATE: 11-10-07

 ACTIVITY DESCRIPTION: Recycle + Reconstruct

BMP	EMP	ROAD #	ROAD NAME	HOURS	MILES
0	1	724	Ocotillo Road	10	1

 TRAFFIC CONTROL ACTION: Proper Signs

 SCOPE OF WORK/COMMENTS: Work Road with AB/H²O and Rollers Ext.

LABOR				EQUIPMENT						
EMP#	RT	OT	CT	EQUIP#	JOB HRS	HR/METER	DOWN HRS	FUEL	AUX TANK	OIL
2882			10	10303	8	140645	-	42.0	824A	-
3443		10		11306	6	2086	-	55.0	1323A	-
3848		10		07304	8	1687				
3794		10		07305	8	505				
4987			10	5305	3	1335				
4984		10		68602	5	2061				
1790		10		68601	6	2008				
4968		10.5		10321	6	501	-	22.0	824A	-
2821		10.5		01328	9	115423				
4782		10.5		05308	10	1286				
1926		10		52313	10	Trailer				
4630		10		05306	10	3441				
1729	10			52306	10	Trailer				
1456		10		806	3	56039				
1643		10		01323	2	122845				
1630		10		05104	9	7868				
4804		10		52108	9					
1571				07300	5.5	80225				
				269	5	4919				
				805	2	781				

MATERIALS

MATERIAL CODE	MATERIAL DESCRIPTION	UNIT	QUANTITY
N1102	Diesel Fuel	Gal	119.0
N601	Free Water	Gal	92750
	ABOcotillo Road Pit	Ton	1714.5

ACCOMPLISHMENTS

QUANTITY:

 WORK UNITS: Road Miles

 PREPARED BY: Salvador M. Cape

 DATE: 11-10-07

 CHECKED BY: James D. Deton

 DATE: 11-11-07

COCHISE COUNTY HIGHWAY MAINTENANCE

EMPLOYEE DAILY WORK SHEET

Date: 11-10-7

EMPLOYEE INFORMATION

Employee Number:	Reg Hrs	OT Hrs	Comp Hrs	Leave Hrs
<u>4987</u>		<u>1</u>		

LOCATION OF WORK

Road Number: 724
 Road Name: Ocotillo Rd
 Work Request/Project Number: CC-074

TYPE OF WORK

Activity Code: 915
 Activity Description: work zone sign inspection
 Quantity: 1 Work Units: MANDAY

EQUIPMENT INFORMATION

Equipment Number:	Reg Hrs	Met/Odm	Fuel	Oil	Down Time
<u>1328</u>	<u>1</u>	<u>115430</u>			

MATERIALS USED

Code	Description	Quantity
1		
2		
3		
4		
5		
6		

Comments/Safety Procedures.

Checked All light in work zone changed to out

Operator Signature: <u>[Signature]</u>	Date: <u>11-10-07</u>
Foreman Signature:	Date:

Cochise County Highway & Floodplain
1415 Melody Lane
Bisbee, AZ 85603-3090

IGA TIME SHEET/OVERTIME REQUEST FORM

Division: HIGHWAY + FLOOD PLAIN

Location OCOTILLO RD

Please Check: IGA Work for Others County

Work Performed: RECYCLE + RECONSTRUCT

Employee's Name/Number	Friday 11/19/07	Saturday 11/20/07	Total Hours Worked	Rate (x 1.5)	TOTAL
Johnny PESINA	10	10	20	30.05	601.00
ROB ENRIQUEZ	10	10	20	30.05	601.00
ED FIGUEROA	10	10	20	29.09	581.80
AIBERT RUTHER FORD	10	10	20	28.99	579.80
MANUEL FIMBRES	10.5	10	20.5	22.88	458.74
SALVADOR COPE	11	10	21	21.26	446.46
FRANCISO CORDOVA	11	10.5	21.5	21.12	454.80
EDMUND MEZA	10	10	20	20.86	417.20
GERAID ARUIZU	10.5	10	20.5	18.98	389.09
HERLINDA MENDER	11	10.5	21.5	18.53	398.40
JAMES HAWCOCK	11	10.5	21.5	18.12	389.58
STUE SCHASTEEN	—	10	10	18.08	180.80
ROBERT LOPSHIRE	10	10	20	18.02	360.40
STEVE PRUCNAI	10	10	20	17.64	352.80
HENRY URIBINA		10	10	26.19	261.19

James Nelson
Supervisor Signature

Subtotal. 6473.06
Benefits x .2443
TOTAL LABOR. 6473.06

Department Head Signature & Date

Approved Not Approved

**COCHISE COUNTY HIGHWAY DEPARTMENT LEAVE SHEET
BENSON ROAD YARD**

DATE	EMP.#	NAME	Holi. 905 0.01	Sick 905 0.02	Vac. 905 0.03	Comp Errn.	Comp Used	PD OT	Other	Other
	3443	Cope, Salvador Michael								
	1562	Figueroa, Richard								
	3794	Lopshire, Robert								
11-09-07	4987	Meracle, Timothy				11				
	3848	Meza, Edmundo Barrios								
	1829	Mitchell, Stephen								
11-09-07	2882	Roberts, Kevin H.				10				

Supervisor's Initials JL Date: 10-10-07

COCHISE COUNTY DAILY WORK SHEET

 ACTIVITY #: **117**

REQUEST/PROJECT #

 DATE: **11-9-07**

 ACTIVITY DESCRIPTION: **Recycle + Reconstruct**

BMP	EMP	ROAD #	ROAD NAME	HOURS	MILES
0	1	724	Ocotillo Road	10	1

 TRAFFIC CONTROL ACTION: **Proper Signs T.C.P.**

 SCOPE OF WORK/COMMENTS: **work road w/ A-B & H₂O rollers ect.**

LABOR				EQUIPMENT						
EMP#	RT	OT	CT	EQUIP#	JOB HRS	HR/METER	DOWN HRS	FUEL	AUX TANK	OIL
2882			10	10303	8	14637	-	14.0	1328A	-
3443		10		11306	7	2080	-	21.0	1323A	-
3848		10		07304	8	1679				
3794		10		07300	6	8022				
4987			10	07305	5	7405				
1790		10		824	2	1183				
4986		10		01323	2	122804				
4968		11		10321	7	495	-	26.0	1328A	-
2821		11		68602			-	13.0	1328A	-
4782		11		05305	8	1632				
1926		10.5		01322	2	155364				
4630		10.5		01328	8	115299				
1729	10			806	1	55991				
1456		10		75						
1693		10		05308	7	1280				
1630		10		05306	7	3436				
				52313	7	Trailer				
				52306	7	Trailer				
				1327	11	103001				
				75	2	286				
				10321	5	493				

MATERIALS

MATERIAL CODE	MATERIAL DESCRIPTION	UNIT	QUANTITY
N0601	Free Water	Gal	6.000
N1102	Diesel Fuel	Gal	74.0
	Ocotillo A-B	TONS	2066.23
		TONS	

ACCOMPLISHMENTS

 QUANTITY: **Repeats**

 WORK UNITS: **Road miles**

 PREPARED BY: **Salvador M. Lopez**

 DATE: **11-9-07**

 CHECKED BY: **James [Signature]**

 DATE: **11-10-07**

COCHISE COUNTY HIGHWAY MAINTENANCE

EMPLOYEE DAILY WORK SHEET

Date: *11-9-07*

EMPLOYEE INFORMATION

Employee Number:	Reg Hrs	OT Hrs	Comp Hrs	Leave Hrs
<i>3443</i>	<i>8</i>		<i>1</i>	

LOCATION OF WORK

Road Number: *724*
 Road Name: *Ocotillo Road*
 Work Request/Project Number:

TYPE OF WORK

Activity Code: *915*
 Activity Description: *Work zone sign inspection*
 Quantity: *.1* Work Units: *manday*

EQUIPMENT INFORMATION

Equipment Number:	Reg Hrs	Met/Odm	Fuel	Oil	Down Time
<i>01323</i>	<i>1</i>	<i>122818</i>	<i>-</i>	<i>-</i>	<i>-</i>

MATERIALS USED

Code	Description	Quantity
1		
2		
3		
4		
5		
6		

Comments/Safety Procedures: *Checked lights on barricades on Ocotillo Road for Project # CC-074.*

Operator Signature: *Salvador M. Lopez* Date: *11-9-07*
 Foreman Signature: _____ Date: _____

COCHISE COUNTY DAILY WORK REPORT

ACTIVITY # 117	SERVICE REQUEST #	JOB #	DATE: 11/09/07			
ACTIVITY DESCRIPTION: Recycle & Reconstruct			AREA:			
BG MP	ROAD #	TRF DIR	ROAD NAME	HOURS	MILES	REF LINE #
0	224		Ocotillo ROAD	10	1	

TRAFFIC CONTROL ACTION: _____

PAGE 11

COMMENTS: _____

LABOR							EQUIPMENT					
EMP #	RT	OT	CT	TRFC	TRVL	TRNG	EQP #	JOB HRS	MTR/ODM READING	DOWN HRS	FUEL GAL	OIL GAL
							05104	9	7860			
							51208	9				
							808	2	710			
							05107	8	427			
							52109	8				
							05106	9	1215		50 1119A	
							52102	9				
							05102	8	6090		28 1119A	
							52105	8				

MATERIALS								
REF #	INV. LOC.	CODE	DESCRIPTION	UNIT	QUANT.	MUTCD	HT	HZ
1								
2								
3								
4								
5								

ACCOMPLISHMENT

QUANTITY: _____ WORK UNITS: _____

PREPARED BY: _____ DATE: _____

CHECKED BY: _____ DATE: _____

MAINT. ANAL.: _____ DATE: _____

Cochise County Highway & Floodplain
1415 Melody Lane
Bisbee, AZ 85603-3090

IGA TIME SHEET/OVERTIME REQUEST FORM

Division: Highway + Flood plain

Location: OCOTILLO RD

Please Check IGA Work for Others County

Work Performed: RECYCLE + RE CONSTRUCT

Employee's Name/Number	11-12-87	Saturday	Total Hours Worked	Rate (x 1.5)	TOTAL
MICHAEL MOLINA	10		10	31.47	314.70
Johnny PESINA	10		10	30.05	300.50
CHUCK DEBUSK	10		10	26.75	267.50
HENRY URBINA	10		10	26.19	261.90
SALVADOR COPE	10		10	21.26	212.60
FRANCISCO CORDOVA	10.5		10.5	21.12	221.76
EDMUND MESA	10		10	20.86	208.60
HERLENDIA MENDEZ	10.5		10.5	18.53	194.57
JAMES HANCOCK	10.5		10.5	18.12	190.26
ROBERT LOPSHIRE	10		10	18.02	180.20
STUE PRUCNAL	10		10	17.64	176.40

James O'Quinn
Supervisor Signature

Subtotal 2528.99
Benefits x .2443 _____
TOTAL LABOR: 2528.99

Department Head Signature & Date _____

Approved Not Approved

**COCHISE COUNTY HIGHWAY DEPARTMENT LEAVE SHEET
BENSON ROAD YARD**

DATE	EMP.#	NAME	Holi. 905 0.01	Sick 905 0.02	Vac. 905 0.03	Comp Ern.	Comp Used	PD OT	Other	Other
10-12-07	3443	Cope, Salvador Michael	8		2					
11-12-07	1562	Figueroa, Richard	8		2					
11-12-07	3794	Lopshire, Robert	8		2					
11-12-07	4987	Meracle, Timothy	8		2	12				
11-12-07	3848	Meza, Edmundo Barrios	8		2					
11-12-07	1829	Mitchell, Stephen	8		2					
11-12-07	2882	Roberts, Kevin H.	8		2	10				

Supervisor's Initials: *JL* Date: _____

COCHISE COUNTY DAILY WORK SHEET

 ACTIVITY #: 117

 REQUEST/PROJECT # CC-074

 DATE: 11-12-07

 ACTIVITY DESCRIPTION: Recycle and Reconstruct

BMP	EMP	ROAD #	ROAD NAME	HOURS	MILES
0	1	724	Ocotillo Road	10	1

 TRAFFIC CONTROL ACTION: Proper Signs

 SCOPE OF WORK/COMMENTS: Worked Road with water and A B and Rollers Ect.

LABOR				EQUIPMENT							
EMP#	RT	OT	CT	EQUIP#	JOB HRS	HR/METER	DOWN HRS	FUEL	AUX TANK	OIL	
2882			10	10303	6	14658	-	19.0	1328A	-	
3443		10		77	5	2862	-	-	-	-	
3848		10		75	5	2936	-	-	-	-	
3794		10		824	2	1230	-	-	-	-	
4987			10	07304	6	1700	-	-	-	-	
4984		10		01323	2	122874	-	-	-	-	
1426		10		68601	6	2015	-	-	-	-	
1790		10		11305	5	3086	-	21.0	1323A	-	
1655		10		68602	6	2073	-	30.0	1328A	-	
1571		10		04310	3	2504	-	2			
4968		10.5		05308	3	1294					
4782		10.5		52313	3	Trailer					
2821		10.5		04314	3	3054					
1729	10			806	1	56252					
				05306	4	3443					
				52306	4	Trailer					
				802	3	82499					
				269	9	5086					
				10321	2	510	-	40.0	1328A	-	
				1328	7	115652					
				1333	10	98040					

1327/10 MATERIALS/103369

MATERIAL CODE	MATERIAL DESCRIPTION	UNIT	QUANTITY
N1102	Diesel Fuel	Gal	110.0
N0601	Water Free	Gal	3750
	Ocotillo A-B	Tons	86

ACCOMPLISHMENTS

 QUANTITY: Repeat

 WORK UNITS: Road miles

 PREPARED BY: Salvador M. Lopez

 DATE: 11-12-07

 CHECKED BY: Jamie H. [Signature]

 DATE: 11-13-07

COCHISE COUNTY HIGHWAY MAINTENANCE

EMPLOYEE DAILY WORK SHEET

Date: 11-12-07

EMPLOYEE INFORMATION

Employee Number:	Reg Hrs	OT Hrs	Comp Hrs	Leave Hrs
4987			2	

LOCATION OF WORK

Road Number: 724
 Road Name: Ocotillo Rd
 Work Request/Project Number: CC-074

TYPE OF WORK

Activity Code: 915
 Activity Description: work zone sign inspection
 Quantity: 2 Work Units: manday

EQUIPMENT INFORMATION

Equipment Number:	Reg Hrs	Met/Odm	Fuel	Oil	Down Time
1328	2	115552			
16303	1	3941			

MATERIALS USED

Code	Description	Quantity
1		
2		
3		
4		
5		
6		

Comments/Safety Procedures:
 Check all lights are working
 and fix road

Operator Signature: *[Signature]* Date: 11-13-07
 Foreman Signature: _____ Date: _____

Cochise County Highway & Floodplain
 1415 Melody Lane
 Bisbee, AZ 85603-3090

IGA TIME SHEET/OVERTIME REQUEST FORM

Division: HIGH way + Flood plain

Location: Ocotillo Rd

Please Check: IGA Work for Others County

Work Performed: RECYCLE + RECONSTRUCT - INSPECTION WORK ZONE

Employee's Name/Number	SUNDAY 11-11-01	Saturday	Total Hours Worked	Rate (x 1.5)	TOTAL
MICHAEL MOLINA	10		10	31.47	314.70
Johnny PESINA	10		10	30.05	300.50
ROB ENRIQUEZ	10		10	30.05	300.50
ED FIGUEROA	10		10	29.09	290.90
JOE GETTINGS	10		10	29.09	290.90
AIBERT RUTHERFORD	10		10	28.99	289.90
CHUCK DE BUSK	10		10	26.75	267.50
HENRY URBINA	10		10	26.19	261.90
MANUEL FIMBRES	10		10	22.88	228.00
SALVADOR COPE	10		10	21.26	212.60
FRANCESCO CORDOVA	10.5		10.5	21.12	221.76
GERARD ARUIZU	10		10	18.98	189.80
HERLENDIA MENDEZ	10.5		10.5	18.53	194.57
JAMES HANCOCK	10.5		10.5	18.12	190.26
STEVE SCHASTEEN	10		10	18.08	180.80
ROBERT LOPSHIRE	10		10	18.02	180.20
STEVE PRUCNAL	10		10	17.64	176.40

James Nelson
 Supervisor Signature

Subtotal: 4091.19
 Benefits x .2443 _____
 TOTAL LABOR: 4091.19

Department Head Signature & Date

Approved Not Approved

**COCHISE COUNTY HIGHWAY DEPARTMENT LEAVE SHEET
BENSON ROAD YARD**

DATE	EMP.#	NAME	Holi. 905 0.01	Sick 905 0.02	Vac. 905 0.03	Comp Errn.	Comp Used	PD OT	Other	Other
	3443	Cope, Salvador Michael								
	1562	Figueroa, Richard								
11-11-07	3794	Lopshire, Robert				2				
11-11-07	4987	Meracle, Timothy				10				
11-11-07	3848	Meza, Edmundo Barrios				10				
	1829	Mitchell, Stephen								
11-11-07	2882	Roberts, Kevin H.				10				

Supervisor's Initials: *JK* Date: 11-12-07

COCHISE COUNTY DAILY WORK SHEET

ACTIVITY #: 117 REQUEST/PROJECT # CC-074 DATE: 11-11-07

ACTIVITY DESCRIPTION: Recycle + Reconstruct

BMP	EMP	ROAD #	ROAD NAME	HOURS	MILES
0	1	724	Ocotillo Road	10	1

TRAFFIC CONTROL ACTION: Proper Signs

SCOPE OF WORK/COMMENTS: Worked Road with water and AB and Rollers Ext.

LABOR				EQUIPMENT							
EMP#	RT	OT	CT	EQUIP#	JOB HRS	HR/METER	DOWN HRS	FUEL	AUX TANK	OIL	
2882			10	10303	8 8	14652	-	63.0	1328A	-	
3443		10		11304	8	2094	-	29.0	1323A	-	
3848			10	07304	7	1694					
3794		10		07305	7	513					
4987			10	07300	7	8034					
4984		10									
1426		10		11305	7	3096					
1426		10		05308	7	1292					
1655		10		5213	2	Trailer					
1790		10		05306	7	3442					
1886		10		52306	7	Trailer					
1571		10		68602	6	2067	-	17.0	1328A	-	
2821		10.5		68601	1	209					
4968		10.5		75	4	290					
4782		10.5		05305	3	1637					
1454		10		52309	3	Trailer					
1693		10		01328	7	115540					
1630		10		824	2	1214					
4630		10		805	2	815					
4804		10		05104	16	7878					
1926		10		52108	16						

1729 10 MATERIALS

MATERIAL CODE	MATERIAL DESCRIPTION	UNIT	QUANTITY
N1102	Diesel Fuel	Gal	109.0
N0601	Free Water	Gal	62750
	AB-Ocotillo Road Pit	Ton	1666.98
Page 1			

ACCOMPLISHMENTS

QUANTITY: Repeat WORK UNITS: Road Miles

PREPARED BY: Salvador M. Lopez DATE: 11-11-07

CHECKED BY: Jamer R. Ochoa DATE: 11-12-07

COCHISE COUNTY HIGHWAY MAINTENANCE

EMPLOYEE DAILY WORK SHEET

Date: *11-11-07*

EMPLOYEE INFORMATION

Employee Number:	Reg Hrs	OT Hrs	Comp Hrs	Leave Hrs
<i>3794</i>			<i>2</i>	

LOCATION OF WORK

Road Number: *724*
 Road Name: *Ocotilla Rd*
 Work Request/Project Number: *CC-074*

TYPE OF WORK

Activity Code: *915*
 Activity Description: *Work Zone Sign Inspection*
 Quantity: *.2* Work Units: *Mins/day*

EQUIPMENT INFORMATION

Equipment Number:	Reg Hrs	Met/Odm	Fuel	Oil	Down Time
<i>01340</i>	<i>1</i>	<i>74920</i>			
<i>16303</i>	<i>1</i>	<i>3941</i>			

MATERIALS USED

Code	Description	Quantity
1		
2		
3		
4		
5		
6		

Comments/Safety Procedures:

Proper lights, Flashers, Personal Safety Equip.

Checked lights on Barricades, Used Buckhose to Back drag Approaches, fill in Material @ Approaches.

Operator Signature: *[Signature]* Date: *11-11-07*
 Foreman Signature: _____ Date: _____

November

2007

info

Additional articles and recipes:
www.yearofgoodhealth2007.com

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
<p>Example: 30 min.</p> <p>RECORD your daily exercise time in the color bars.</p> <p>Monthly total: _____</p>	<p>October</p> <p>S M T W T F S</p> <p>1 2 3 4 5 6</p> <p>7 8 9 10 11 12 13</p> <p>14 15 16 17 18 19 20</p> <p>21 22 23 24 25 26 27</p> <p>28 29 30 31</p>	<p>December</p> <p>S M T W T F S</p> <p>1</p> <p>2 3 4 5 6 7 8</p> <p>9 10 11 12 13 14 15</p> <p>16 17 18 19 20 21 22</p> <p>23 24 25 26 27 28 29</p> <p>30 31</p>	<p>SAFETY TIP</p> <p>Knives are one of the most useful tools in the kitchen but also one of the most dangerous. Always cut away from your body on a proper cutting surface, and keep the knife blade sharp</p>	1	2	3
4 Daylight Saving Time Ends	5 BOMA9 ROAD	6 PROCESS Sub Base	7 PROCESS Sub Base	8 Blue TOP Sub Base	9 WORK ROAD TO Blue TOPS	10 WORK ROAD TO Blue TOPS
11 Veterans Day (US) WORK	12 Veterans Day (observed US) HAUL AB	13 PROCESS & LAY AB	14 PROCESS ↓ LAY AB	15 HAUL AB	16 LAY & PROCESS AB COMPACTION TEST (Wes Rec.)	17 Blue TOP Finish Grade
18 Blue TOP Finish GRADE	19 FINISH WORK	20 OVERLAY	21 OVERLAY	22 Thanksgiving Day (US)	23	24
25	26	27	28	29	30	

ON-CALL O&T ←

**SOIL / AGGREGATE FIELD UNIT WEIGHT TESTS
NUCLEAR METHOD**

Project / Address Oodles Rd Job No. 29127030 Page 2 of 2
Baseline A Event / Invoice No. _____ Lab No. _____

PROCEDURE / SPECIFICATIONS

In-Place Unit Weight: ASTM D2922 AASHTO T310 _____ ←
 In-Place Moisture, %: ASTM D3017 AASHTO T310 AASHTO T217 ← Test Locations Designated By Mike Kelly Date 11/20/03
 Rock Correction: ASTM D4718 AASHTO T224 ARIZ 227C ← Visual Soil Classification per ASTM D2488 SP-Sm ←

TEST NO.	TEST LOCATION	NOTE DATUM BELOW	FILL DEPTH, FT.	ELEV., FT.
1	Dentless 2.5 Sta 3115 9' Ld		7'	95.5
2	" Sta 5114/6 9' Ld		7'	95.5
3	" Sta 5114/6 12' Ld		7'	95.5

GAUGE: MAKE Tandem MODEL 3470 SERIAL NO. 27504 STANDARD COUNT: 1 UNIT WEIGHT 2579 2 H₂O 665 ←

		TEST LOCATION NO. →	1	2	3			
DENSITY	PROBE DEPTH		6"	6"	6"			
	COUNTS		1973	1996	1975			
	3 COUNT AVERAGE		/	/	/			
	DENSITY RATIO		/	/	/			
MOISTURE	COUNTS		66	62	61			
	4 COUNT AVERAGE		/	/	/			
	MOISTURE RATIO		/	/	/			
5	WET UNIT WEIGHT, LBF / CU. FT.	FROM CALIBRATION CHART OR READOUT →	171.3	132.7	132.1			
6	WATER, LBF / CU. FT.		1.7	4.3	1.5			
7	SPECIFIC GRAVITY OF +NO. 4 MATERIAL	<input checked="" type="checkbox"/> ASSUMED <input type="checkbox"/> TESTED	2.65	2.65	2.65			
8	ABSORPTION +NO. 4 MATERIAL	<input type="checkbox"/> ASSUMED <input type="checkbox"/> TESTED	1.0	1.0	1.0			
9	WET WEIGHT OF SAMPLE, LBF.		10.0	10.0	10.0			
10	WET WEIGHT OF OVERSIZE MATERIAL	<input type="checkbox"/> +NO. 4 <input type="checkbox"/> 3/8 IN. <input checked="" type="checkbox"/> 3/4 IN. →	.60	.60	.60			
11	PC% COARSE FRACTION (10 + 9) X 100		6	6	6			
12	PF% FINE FRACTION 100 - 11		94	94	94			
PROCTOR USED / CORRECTION	13	OPTIMUM MOISTURE (LAB), % OF DRY UNIT WEIGHT	8.9	8.9	8.9			
	14	MAXIMUM DRY UNIT WEIGHT (LAB), LBF / CU. FT.	130.5	130.5	130.5			
	15	CORRECTED MAXIMUM DRY UNIT WEIGHT, LBF / CU. FT. NOTE: FORMULA OR CHART	132.4	732.4	132.4			
	16	CORRECTED OPTIMUM MOISTURE, % [(13 X 12) + (8 X 11)] + 100 NOTE: AASHTO NOT CORRECTED	8.4	8.4	8.4			
17	DRY UNIT WEIGHT, LBF / CU. FT. READOUT OR 5 - 6		129.6	129.4	128.6			
18	REPORT % MOISTURE, TOTAL SAMPLE READOUT OR (6 + 17) X 100		2.6	3.4	3.5			
RELATIVE COMPACTION, %		READOUT OR (17 + 15) X 100	98	97	97			
CONFORMANCE INDICATED?			Y N 15	Y N 15	Y N 15	Y	N	15
COMMENTS*			7, 11, 13 →					

White - File After Processing Final Report; Yellow - Preliminary Field Copy, Subject To Review

*COMMENTS
 1. Subgrade
 2. Subbase Fill
 3. Base Course
 4. Structure Backfill
 5. Trench Backfill
 6. Pipe Bedding
 7. Embankment Fill
 8. Below Footing Bottom
 9. Above Footing Bottom
 10. _____
 11. 100% minimum required
 12. 95% minimum required
 13. 90% minimum required
 14. _____ minimum required
 15. Specification Unknown
 16. Test Locations Shown on Accompanying Site Plan
 17. Moisture Specification: _____ to _____
 18. Maximum Dry Unit Weight: ASTM D698 AASHTO T99 METHOD A B C D
 ASTM D1557 AASHTO T180
 19. _____
 Datum Final Report - 11/21/03
 288 - 1995 © 04/17/01 WTI, Inc. Western Technologies Inc. REVIEWED BY _____

SIEVE ANALYSIS

Client: 4 TO 1 MIX HC, AB BOMAG MIX Job No. _____
 Source of Material OCOTILLO ROAD Lab /Invoice No 07-55

Sieve	Weight Retained	% Retained	% Pass Accum.	Specs.
4				
3				
2				
1 1/2				
1 1/4				
1	0	0	100	100
3/4	102	9	91	
1/2	248	23	77	
3/8	333	31	69	
1/4, 3/8	428	40	60	
#4	487	45	55	38/65
Ret #4				Tech. <input type="checkbox"/>
Wet		Wet Weight Before Wash	1125	
Dry		Dry Weight Before Wash	1082	
Total Dry		Weight After Wash	982	
Initial Total		Elutriation		
8	620	57	43	25/60
10	645	60	40	
16	727	67	33	
30	824	76	24	10/40
40	861	80	20	
50	900	83	17	
100	954	88	12	
200	982	90.76	9.24	3/12
Finer than 200				
Total				

Sampled By S. SOLES Date 11-13-07
 Submitted By _____ Date _____
 Test/Calc By S. SOLES Date 11-14-07
 Reviewed By _____ Date _____

Classification _____
 Test Procedure _____
 Aggregate
 Sieve ASTM C136-
 -200 ASTM C117-
 Soil
 Sieve ASTM D422-
 -200 ASTM D1140-

Special Instructions
MIX OF 4 PARTS HVA, CONC, AB TO 1 PART BOMAG MIX
9.24 % 200's
P.I. = 0

PLASTICITY INDEX
 ASTM D4318-

Client: _____
 Type of Material _____ Job No _____
 Source of Material _____ Lab./Invoice No. _____
 Sampled By _____ Date _____
 Submitted By _____ Date _____
 Test/Calc. By _____ Date _____
 Reviewed By _____ Date _____

LIQUID LIMIT

Taps _____
 Container Identification _____
 Wet Weight + Container _____
 Dry Weight + Container _____
 Weight of Water = _____
 Dry Weight + Container _____
 Weight of Container _____
 Weight of Dry Soil = _____
 $\frac{\text{Weight of Water}}{\text{Weight of Dry Soil}} \times 100 = \text{Liquid Limit}$
 Liquid Limit at 25 Taps = _____

PLASTIC LIMIT

Container Identification _____
 Wet Weight + Container _____
 Dry Weight + Container _____
 Weight of Water _____
 Dry Weight + Container _____
 Weight of Container _____
 Weight of Dry Soil _____
 $\frac{\text{Weight of Water}}{\text{Weight of Dry Soil}} \times 100 = \text{Plastic Limit}$

COULD NOT PERFORM TEST

PLASTICITY INDEX ASTM D4318-

SIEVE ANALYSIS

OCOTILLO ROAD

PLASTICITY INDEX
ASTM D4318-

pe of Material AB \$ BOMAG MIX Job No. @ STA 43+50

Source of Material OCOTILLO ROAD Lab /Invoice No 07-54

Client: _____
Type of Material _____ Job No _____

Source of Material _____ Lab./Invoice No. _____

Sampled By _____ Date _____

Submitted By _____ Date _____

Test/Calc. By _____ Date _____

Reviewed By _____ Date _____

sieve	Weight Retained	% Retained	% Pass Accum.	Specs.
4				
3				
2				
1 1/2				
1 1/4				
1	0	0	100	100
3/4	91	8	92	
1/2	219	20	80	
3/8	305	28	72	
1/4	419	38	62	
#4	492	45	55	38/65
Ret #4				Tech. <input type="checkbox"/>
Wet #4		Wet Weight Before Wash	1118	
Dry #4		Dry Weight Before Wash	1100	<input type="checkbox"/>
Total Dry		Weight After Wash	1010	
Initial Total		Elutriation		
8	633	58	42	25/60
10	661	60	40	
16	747	68	32	
30	849	77	23	10/40
40	893	81	19	
50	932	85	15	
100	986	90	10	
200	1010	91.81	8.19	3/12
Finer than 200				
Total				

Sampled By S. SOLES Date 11-13-07

Submitted By _____ Date _____

Test/Calc. By S. SOLES Date 11-14-07

Reviewed By _____ Date _____

Classification _____

Test Procedure _____

Aggregate

Sieve ASTM C136-

-200 ASTM C117-

Soil

Sieve ASTM D422-

-200 ASTM D1140-

Tech.

Special Instructions:

SAMPLE IS 2 HUACHUCA CONCRETE TO 1 BOMAG MIX

**8.19 % - 200'S
P.I = 0**

LIQUID LIMIT

Taps _____

Container Identification _____

Wet Weight + Container _____

Dry Weight + Container _____

Weight of Water _____

Dry Weight + Container _____

Weight of Container _____

Weight of Dry Soil _____

$\frac{\text{Weight of Water}}{\text{Weight of Dry Soil}} \times 100 = \text{Liquid Limit}$

Liquid Limit at 25 Taps _____

PLASTIC LIMIT

Container Identification _____

Wet Weight + Container _____

Dry Weight + Container _____

Weight of Water _____

Dry Weight + Container _____

Weight of Container _____

Weight of Dry Soil _____

$\frac{\text{Weight of Water}}{\text{Weight of Dry Soil}} \times 100 = \text{Plastic Limit}$

PLASTICITY INDEX ASTM D4318-

COULD NOT PERFORM TEST

COCHISE COUNTY HIGHWAY AND FLOODPLAIN DEPT.
FIELD DENSITY/COMPACTION RESULTS

Project Name: OCOTILLO ROAD MP 0 TO MP 1.0 Tested By: S. SOLES Date: 11 / 08 / 2007 USED PROCTOR 07-08
 Material: (Native) / Select / Aggregate Grade: (Subgrade) / Finish Grade

Test #	Station/Pt.	Offset	Depth (in.)	Max. Dry Density (Proctor)	Optimum Moisture (Proctor)	Wet Density (pcf)	Dry Density (pcf)	% Moisture	% Compaction	Spec.	Pass / Fail	Comments/Remarks
1	1+92	5' RT.	6"	118.6 pcf	8.4 %	135.2	126.4	6.9	106.6%		P / F	
2	7+06	8' LT.	"	" pcf	" %	130.0	124.2	4.6	104.7%		P / F	
3	14+05	℄	"	" pcf	" %	122.2	117.0	4.5	98.7%		P / F	NORTH END OF APPROACH TO DIP SECTION
4	17+00	4' RT.	"	" pcf	" %	123.7	116.0	6.6	97.9%		P / F	
5	22+94	7' LT.	"	" pcf	" %	135.7	128.1	5.9	108.0%		P / F	
6	26+92	1' LT.	"	" pcf	" %	129.2	120.2	7.5	101.3%		P / F	
7	32+00	5' RT.	"	" pcf	" %	133.8	126.2	6.0	106.4%		P / F	
8	37+01	4' LT.	"	" pcf	" %	126.5	120.1	5.4	101.3%		P / F	
9	42+05	℄	"	" pcf	" %	127.5	117.4	8.6	98.9%		P / F	
10	47+00	4' RT.	"	" pcf	" %	127.5	115.7	10.2	97.6%		P / F	
11	50+98	3' RT.	"	" pcf	" %	123.6	112.8	9.6	95.1%		P / F	
12				pcf	%						P / F	
13				pcf	%						P / F	
14				pcf	%						P / F	
15				pcf	%						P / F	
16				pcf	%						P / F	
17				pcf	%						P / F	
18				pcf	%						P / F	
19				pcf	%						P / F	
20				pcf	%						P / F	

AZ CON AGG

Gradation/Sieve Analysis

LAB #: _____
 Client: _____
 Project: _____

Sample Date: 11/27/06
 Material: MAG ABC
 QC Tech: L. George
 Sample Location: Benson Plant-Under Belt

Sieve	Weight Retention	% Retention	% Passing	Specs.	ADOT Specs.
2"					
1 1/2"					100
1 1/4"				100	
1	24		100		90-100
3/4	1164	11	89		
1/2	2082	19	70		
3/8	734	7	63		
1/4	1049	10	53		
4	880	8	45	38-65	
		Wet wt. before wash			
Pass #4	48960	Dry wt. before wash		548.6	
Split		Weight after wash		489.4	
Total	10829.0	Elutriation		59.2	
8	105	9	36	25-80	35-55
10	31	2	34		
16	92	8	26		
30	103	8	18	10-40	
40					
50	81	2	11		
100	53	4	7		
200	19	1.7	5.3	3-12	0-8.0
-200	5.4				
Total	489.4				

Container Identification			
Wet Weight + Container			
Dry Weight + Container			
Weight of Water			
Dry Weight + Container			
Weight of Container			
Weight of Dry Soil			
Weight of Water			
Weight of Dry Soilx100=LL			
Liquid Limit at 25 Taps			
Plastic Limit			
Container Identification			
Wet Weight + Container			
Dry Weight + Container			
Weight of Water			
Weight of Dry Soil			
Weight of Water			
Weight of Dry Soilx100=PL			
Liquid Limit-Plasticity Index=Final Plasticity Index			
FM			
WW-DW/DW=% Moisture	Wet Wt.	11088.9	
	Dry Wt.	10829.0	
	Moist. %	2.4	

Sand Equivalent Value

ASTM 02419	AASHTO T176		
Sand Reading			
Clay reading			
(S-C) 100=SE			
Average Sand Equivalent Value			

NOTES

9:30 AM
 Bell flow

AZ CON AGG

LAB #: _____
 Client: _____
 Project: _____

Gradation/Sieve Analysis

Sample Date: 11/27/07
 Material: MAG ABC
 QC Tech: L. George
 Sample Location: Benson Plant-Under Belt

Sieve	Weight Retention	% Retention	% Passing	Specs.	ADOT Specs.
2"					
1 1/2"					100
1 1/4"				100	
1	0		100		90-100
3/4	486	7	93		
1/2	1069	16	77		
3/8	496	7	70		
1/4	653	10	60		
4	431	6	54	38-65	
Pass #4	3613.2	Wet wt. before wash			
Split		Dry wt. before wash		9270	
Total	6746.2	Weight after wash		845.3	
8	234	17	40	25-60	35-55
10	45	2	38		
16	149	9	29		
30	176	10	19	10-40	
40					
50	130	8	11		
100	77	4	7		
200	27	1.8	5.2	3-12	0-8.0
-200	7.3				
Total	845.3	Elutriation		81.7	

Container Identification			
Wet Weight + Container			
Dry Weight + Container			
Weight of Water			
Dry Weight + Container			
Weight of Container			
Weight of Dry Soil			
Weight of Water			
Weight of Dry Soilx100=LL			
Liquid Limit at 25 Taps			
Plastic Limit			
Container Identification			
Wet Weight + Container			
Dry Weight + Container			
Weight of Water			
Weight of Dry Soil			
Weight of Water			
Weight of Dry Soilx100=PL			
Liquid Limit-Plasticity Index=Final Plasticity Index			
FM			
WW-DW/DW=% Moisture	Wet Wt.	6860.9	
	Dry Wt.	6746.2	
	Moist. %	1.7	

Sand Equivalent Value

ASTM 02419	AASHTO T176
Sand Reading	
Clay reading	
(S-C) 100=SE	
Average Sand Equivalent Value	

NOTES

10 AM
Stockpile - Pad mark

AZ CON AGG

LAB #: 307401
 Client: _____
 Project: _____

Gradation/Sieve Analysis

Sample Date: 11/21/07
 Material: MAG ABC
 QC Tech: L. George
 Sample Location: Benson Plant-Crusher

Sieve	Weight Retention	% Retention	% Passing	Specs.
2"				
1 1/2"				
1 1/4"				100
1	0		100	
3/4	529	7	93	
1/2	1218	15	78	
3/8	536	7	71	
1/4	785	10	61	
4	496	7	54	38-65
		Split	696.0	
Pass #4	4205.7	Dry wt. before wash	696.0	
Split	696.0	Weight after wash	650.6	
Total	7769.7	Elutration	45.4	
8	180	14	40	25-60
10	35	3	37	
16	113	8	29	
30	133	11	18	10-40
40				
50	101	8	10	
100	64	5	5	
200	20	1.1	3.9	3-12
-200	4.6			
Total	650.6			

Container Identification			
Wet Weight + Container			
Dry Weight + Container			
Weight of Water			
Dry Weight + Container			
Weight of Container			
Weight of Dry Soil			
Weight of Water			
Weight of Dry Soilx100=LL			
Liquid Limit at 25 Taps			
Plastic Limit			
Container Identification			
Wet Weight + Container			
Dry Weight + Container			
Weight of Water			
Weight of Dry Soil			
Weight of Water			
Weight of Dry Soilx100=PL			
Liquid Limit-Plasticity Index=Final Plasticity Index	NP		
FM			
WW-DW/DW=% Moisture	Wet Wt	7855.2	
	Dry Wt.	7769.7	
	Moist. %	1.1	

Sand Equivalent Value

ASTM 02419	AASHTO T176
Sand Reading	
Clay reading	
(S-C) 100=SE	
Average Sand Equivalent Value	

NOTES
 1:30 PM

75 RPM

Notified David of results.

Scanned 06/25/2009 09:52:59

AZ CON AGG

LAB #: 307401
 Client: _____
 Project: _____

Sieve	Weight Retention	% Retention	% Passing	Specs
2"				
1 1/2"				
1 1/4"				100
1	0		100	
3/4	529	7	93	
1/2	1218	15	78	
3/8	536	7	71	
1/4	785	10	61	
4	496	7	54	38-65
Split				696.0
Pass #4	4205.7	Dry wt. before wash		696.0
Split	696.0	Weight after wash		650.6
Total	7769.7	Elutriation		45.4
8	180	14	40	25-60
10	35	3	37	
16	113	8	29	
30	133	11	18	10--40
40				
50	101	8	10	
100	64	5	5	
200	20	1.1	3.9	3--12
-200	4.6			
Total	650.6			

Sand Equivalent Value

ASTM 02419	AASHTO T176
Sand Reading	
Clay reading	
(S-C) 100=SE	
Average Sand Equivalent Value	

Gradation/Sieve Analysis

Sample Date: 11/21/07
 Material: MAG ABC
 QC Tech: L. George
 Sample Location: Benson Plant-Crusher

Container Identification		
Wet Weight + Container		
Dry Weight + Container		
Weight of Water		
Dry Weight + Container		
Weight of Container		
Weight of Dry Soil		
Weight of Water		
Weight of Dry Soilx100=LL		
Liquid Limit at 25 Taps		
Plastic Limit		
Container Identification		
Wet Weight + Container		
Dry Weight + Container		
Weight of Water		
Weight of Dry Soil		
Weight of Water		
Weight of Dry Soilx100=PL		
Liquid Limit-Plasticity Index=Final Plasticity Index	NP	
FM		
WW-DW/DW=% Moisture		Wet Wt 7855.2
		Dry Wt 7769.7
		Moist. % 1.1

NOTES
 1:30 PM

75 RPM

Notified David of results.

Scanned 05/25/2009

Cochise County Highway & Floodplain
1415 Melody Lane
Bisbee, AZ 85603-3090

IGA TIME SHEET/OVERTIME REQUEST FORM

Division: Highway & Floodplain

Location: Ocotillo Road

Please Check: IGA Work for Others County

Work Performed: Recycle & Reconstruct - CC-074 -11-30-07

Employee's Name/Number	Friday 11-30-07 11-30-07	Saturday	Total Hours Worked	Rate (x1.5)	TOTAL
Richard Figueroa 1562	10		10	\$ 31.09	\$ 310.90
PAT Teague 2060	10		10	\$ 29.13	\$ 291.30
Johnny Pesina 1790	10		10	\$ 30.05	\$ 300.50
Chuck Debusk 1426	10		10	\$ 26.75	\$ 267.50
Jorge Mendez 4836	10		10	\$ 16.24	\$ 162.40
Tyler Clemson 5279	10		10	\$ 16.24	\$ 162.40
Frankie Cordova 2821	10		10	\$ 21.12	\$ 211.20
Jamie Mahoney 2590	10		10	\$ 23.50	\$ 235.00
Linda Mendez 4968	10		10	\$ 18.52	\$ 185.20
Mike Molina 1655	10		10	\$ 31.47	\$ 314.70
Steven Smith 1254	10		10	\$ 29.09	\$ 290.90

Richard Figueroa - 11-30-07
Supervisor Signature

Subtotal: \$ 2,732.00
Benefits x .2443
TOTAL LABOR \$ 2,732.00

Department Head Signature & Date Approved Not Approved

COCHISE COUNTY HIGHWAY DEPARTMENT LEAVE SHEET BENSON ROAD YARD

DATE	EMP.#	NAME	Holi. 905 0.01	Sick 905 0.02	Vac. 905 0.03	Comp Ern.	Comp Used	PD OT	Other	Other
11-30-07										
	3443	Cope, Salvador Michael								
11-30-07	1562	Figueroa, Richard						10		
	3794	Lopshire, Robert								
	4987	Meracle, Timothy								
	3848	Meza, Edmundo Barrios								
	1829	Mitchell, Stephen								
11-30-07	2882	Roberts, Kevin H.				10				
11-30-07	1790	Pesina, Johnny						10		
11-30-07	2060	Teague, PAT						10		
11-30-07	1426	De Busk, Chuck						10		
11-30-07	4836	Mendez, Jorge						10		

Supervisor's Initials: RAF Date: 11-30-07

COCHISE COUNTY HIGHWAY DEPARTMENT LEAVE SHEET ELFRIDA ROAD YARD

DATE	EMP.#	NAME	Holi. 905 0.01	Sick 905 0.02	Vac. 905 0.03	Comp Earn.	Comp Used	PD OT	Other	Other
11-30-07										
11-30-07	5279	Clemson, Tyler						10		
11-30-07	2821	Cordova, Francisco						10		
	4782	Hancock, James								
11-30-07	2590	Mahaney, Jamie B.						10		
11-30-07	4968	Mendez, Linda						10		
11-30-07	1655	Molina, Michael						10		
	4783	Morin, George								
11-30-07	1254	Smith, Steven						10		
	4309	Waters, Roy								

Supervisor's Initials: RMF Date: 11-30-07

COCHISE COUNTY DAILY WORK SHEET

ACTIVITY #: 117 REQUEST/PROJECT # CC-074 DATE: 11-30-07

ACTIVITY DESCRIPTION: Recycle & Reconstruct

BMP	EMP	ROAD #	ROAD NAME	HOURS	MILES
0	1	724	Ocotillo ROAD	10	—

TRAFFIC CONTROL ACTION: Lights, Flashers, Beacon, Proper signs & Flaggers & Pilot car & Proper safety Equipment

SCOPE OF WORK/COMMENTS: Hauled more AB onto to Roadway & Bladed & Rolled & watered. Preparing ROAD FOR NEW OVERLAY FROM M.P. 0 TO M.P. 1

LABOR				EQUIPMENT						
EMP#	RT	OT	CT	EQUIP#	JOB HRS	HR/METER	DOWN HRS	FUEL	AUX TANK	OIL
2060		10		68602	0	2094	—	—	—	—
1254		10		2804	1	190662	—	—	—	—
2590		10		05307	5	4291	—	—	—	—
1790		10		52309	5	TRAILER	—	—	—	—
2821		10		1338	3	36395	—	—	—	—
1655		10		05306	5	3469	—	—	—	—
5279		10		52306	5	TRAILER	—	—	—	—
4968		10		05308	4	1331	—	—	—	—
1562		10		52313	4	TRAILER	—	—	—	—
2882			10	806	1	57493	—	—	—	—
1426		10		07305	2	546	—	—	—	—
4836		10		1322	8	155886	—	—	—	—
				68601	4	2048	—	24	1322A	—
				1328	8	186353	—	—	—	—
				1325	9	102230	—	—	—	—
				804	4	26263	—	—	—	—
				10303	7	14714	—	—	—	—
				824	3	1463	—	—	—	—
				10321	0	567	—	—	—	—
				1344	3	30510	—	—	—	—
				77	2	2895	—	—	—	—

MATERIALS

MATERIAL CODE	MATERIAL DESCRIPTION	UNIT	QUANTITY
N0601	Free Water	gals	3750
????	Ocotillo AB-Free	TONS	526
N1102	Diesel Fuel	gals	24

ACCOMPLISHMENTS

QUANTITY: Repeated WORK UNITS: Lavermilas

PREPARED BY: Rush Figueroa DATE: 11-30-07

CHECKED BY: Rush Figueroa DATE: 11-30-07

Tres Alamos Community Alliance
- preserving the quality, beauty and safety of our community

March 2025 Complaint/Action 3
Cochise County Board of Supervisors

Unlawful rearrangement of earth/landscape and resulting damages.

Background

Please ask yourself this question: “What type of attitude would cause you to change the grading and shape of the earth on your property – and on your neighbor’s property as well – to redirect rainwater runoff across the neighbor’s property, cutting new runoff channels on the neighbor’s property, and consequently causing erosion damage to that property?” If you answer is “I would not go do that on my own without the understanding and permission of my neighbor”, your answer would seem to be ethical and in accordance with the law.

However, the State of Arizona has understood that not all property owners will act ethically according to principles of decency, and within the law. Consequently, Arizona law (ARS 48-3613) addresses the questioned behavior by stating requirements that must be met before landscape is so rearranged. (Please see enclosure A for the law.) The basic tenet of that law is that an individual must apply and obtain approval in order legally to undertake the earth alteration actions noted in the first paragraph. That means that a responsible office in the Cochise County government must consider and approve such plans in order for the action to be done legally. For the matters addressed here, logic and current practice indicate that proper county office would be the permitting aspect Development Services or the County Engineer.

Problem Behaviors and Actions

The September 2024 TACA Notice of Claim (NOC) to the Cochise County Board of Supervisors (BOS) thoroughly explains two instances wherein neighbors along N. Ocotillo Rd. took such unlawful actions without so much as a word of warning to the affected neighboring landowners, and caused the very water runoff and erosion damage the law is designed to avoid. (Please see detail in the TACA NOC, Specific Details of the Claim, paragraphs 7 and 10., items).

One bottom line is that Shane Madsen, owner of Sierra Mining and Crushing (Parcels 20826018, 20826014A, 20826023B and 20826023D) at 2150 N. Ocotillo Rd, with assistance by Kevin Rasch, who lives further north on Ocotillo Rd., rearranged the slope of earth on that property which has caused new runoff patterns, new water channels and erosion damage on neighboring Durham and Haidet properties (Parcels #20826020G and #20826020E and #20826020P). Just as alarmingly, those modifications also have caused an area of extensive flooding on Ocotillo Rd. that quickly becomes a danger to motorists on the road when rainfall runoff reaches a certain point. In Summer 2024, soon after the Madsen/Rasch slope rearrangement was done, the new runoff patterns caused the first dangerous flooding at that point on Ocotillo road – a new flood area so dangerous enough that Cochise County Engineering installed warning signs to motorists, telling them to not enter when flooded. Thus, the result of the designated unlawful actions by Madsen/Rasch has been twofold. Mr. Madsen never secured the permitting required by Arizona law.

Another bottom line is that George Scott, who lives directly off Ocotillo Rd. on Jackrabbit Trail (Parcels #20829008D, E and F) took it upon himself, with the assistance of Kevin Rasch, to redirect the water channel on his property as it runs inside an older county dike parallel to Ocotillo Rd. The former water flow toward a nearby wash has now been redirected out of the original channel and creating a new path through other private property owned by Durham (Parcel 20826020Q) in such a manner that it cut a large new channel through that neighboring property. That redirected runoff has eroded once flat and stable private land only to finally make its way back into the original channel at a point closer to the wash. This seemingly nonsensical action has caused severe erosion damage. To further the grievance, Scott/Rasch also dumped a significant amount of concrete trash chunks on the Durham property, apparently in efforts to make certain that the new water runoff path on the neighbor property would go where they wished it to go. Mr. Scott never secured permission for these activities from the land owner or accomplished the permitting required by Arizona law.

That law states that such action taken without approval will cause the violator to “remove the obstruction and restore the watercourse to its original state. The court may also award such monetary damages as are appropriate to the injured parties resulting from the violation, including reasonable costs and attorney fees.”

As a consequence, the complainant asked relevant county staff why Arizona law (ARS 48-3613) was not being enforced by the county in these instances. That is, why does the county not step in and require correction of the wrongs because the runoff patterns were altered without proper permitting? Those relevant county staff have never answered the questions.

Thus, the complaint remains poorly investigated and unresolved by Cochise County

Specific BOS action requests will be identified in the March 11, 2025 BOS work session

Please see enclosed Exhibits 3A and 3B

Arizona Statute 48-3613. Authorization required for development in watercourses; exceptions; enforcement

A. Except as provided in section 48-3625 and in this section, a person shall not engage in any development which will divert, retard or obstruct the flow of waters in any watercourse without securing written authorization from the board of the district in which the watercourse is located. Where the watercourse is a delineated floodplain no development shall take place in the floodplain without written authorization from the board of the district in which the floodplain is located.

B. Written authorization is not required for nor shall the board prohibit:

1. The construction of bridges, culverts, dikes and other structures necessary for the construction of public highways, roads and streets intersecting or crossing a watercourse.
2. The construction of storage dams for watering livestock or wildlife and structures on banks of a watercourse to prevent erosion of or damage to adjoining land if the structure will not divert, retard or obstruct the natural channel of the watercourse or dams for the conservation of floodwaters as permitted by title 45, chapter 6.
3. Construction of tailing dams and waste disposal areas used in connection with mining and metallurgical operations. This paragraph does not exempt those sand and gravel operations which will divert, retard or obstruct the flow of waters in a watercourse from complying with and acquiring authorization from the board pursuant to regulations adopted by the board under this article.
4. Other construction if it is determined by the board that written authorization is unnecessary.
5. Any flood control district, county, city, town or other political subdivision from exercising powers granted to it under this article.
6. The construction of streams, waterways, lakes and other auxiliary facilities in conjunction with development of public parks and recreation facilities by a public agency or political subdivision.
7. The construction and erection of poles, towers, foundations, support structures, guy wires, and other facilities related to power transmission as constructed by any utility whether a public service corporation or a political subdivision.

C. Before any construction authorized by subsection B of this section may begin, the person must submit plans for the construction to the board for review and comment.

D. In addition to other penalties or remedies otherwise provided by law, this state, a political subdivision or a person who may be damaged or has been damaged as a result of the unauthorized diversion, retardation or obstruction of a watercourse has the right to commence, maintain and prosecute any appropriate action or pursue any remedy to enjoin, abate or otherwise prevent any person from violating or continuing to violate this section or regulations adopted pursuant to this article. If a person is found to be in violation of this section, the court shall require the violator to either comply with this section if authorized by the board or remove the obstruction and restore the watercourse to its original state. The court may also award such monetary damages as are appropriate to the injured parties resulting from the violation, including reasonable costs and attorney fees.



OFFICE OF THE
Cochise County Attorney

ALAN K. POLLEY
COCHISE COUNTY ATTORNEY

P.O. DRAWER CA
BISBEE, ARIZONA 85603
(602) 432-5171 EXT. 260

September 7, 1989

Mr. Christopher Hitchcock
DESENS & HITCHCOCK
Attorneys at Law
P.O. Box 87
Bisbee, AZ 85603

Re: Correspondence of August 23, 1989
Manuel E. Molera

Dear Chris:

I have been asked to reply to your recent correspondence regarding Mr. Molera. As I know you are aware, it is prohibited to construct any structure which will divert, retard, or obstruct the flow of waters in any watercourse absent written approval from the Flood Control Board. A.R.S. §48-3612.A. See also, Cochise County Floodplain Regulations §§3.8, 3.10. Unfortunately, your client did not seek such approval prior to erecting his berm. Mr. Williams' efforts to date have been aimed at arriving at a solution for resolving this matter retroactively. However, we should keep in mind that it is your client, as the obstructor of the natural watercourse, who has the burden of demonstrating that this alteration will not have adverse consequences.

You should be aware that Mr. Williams' recommendations were based on a hydrologic study which he performed. A copy of the summary of this study is attached. There is the potential for a substantial amount of water to be diverted and retained by the berm. This has also been confirmed by inspection, following a recent storm event. Your contention that ponding is attributable to grading by Mr. Bray, rather than the berm, is, I assume, an allegation made by your client. Mr. Williams' calculations, inspection, and analysis do not agree. If you have any other basis for this conclusion, please let me know.

Mr. Williams has proposed a reasonable modification of the structure, so that it can be authorized. If you have an alternate

Christopher Hitchcock
September 7, 1989
Page two . . .

proposal which would accomplish the same ends and be more consistent with your clients' objectives, I am sure this could be considered. We acknowledge that there may be other solutions for this matter and await any proposal you may wish to submit.

Thank you for your prompt attention to this matter.

Sincerely,

ALAN K. POLLEY
Cochise County Attorney

By: John A. MacKinnon
Deputy County Attorney

JAH/te

Attachment