

---

***TRANSPORTATION ENVIRONMENTAL  
RESOURCE COUNCIL (TERC)***  
**MEETING NOTES**

---

Meeting Date/Time: June 14, 2012, 9am-noon

Meeting Location: History Colorado

Recorded By: Raevana Lopez, CDOT

---

## 1 ATTENDANCE/INTRODUCTIONS

\*\*\* See Sign-In Sheet

## 2 AROUND THE ROOM - WHAT'S NEW, WHAT'S COMING AND WHAT'S OF INTEREST?

- Don Hunt – Executive Director of CDOT

Touched upon a few comments from the last TERC conference and Governor Hickenlooper's perspective on business administration. This is the second year with the Governor's 3 Es (effective, efficient and elegant). We're trying to do everything we can at CDOT to expedite and improve the process and the Governor says we want to do that with the highest level of environmental protection that we believe we can have. Great business growth and great environmental protection is what Colorado is all about. One of the ways CDOT is trying to expedite things in our environmental process is to look at programmatic approaches to things. For example, rather than looking at ditches for each project, CDOT has a project that is looking at ditches as an overall resource to determine if there's a programmatic way to address them to save time during individual projects.

- John Cater – FHWA - Colorado Division

John appreciates the opportunity to be here at the new museum. It's a great facility, its great being here, and he's looking forward to seeing the tour later today. Our current transportation bill, SAFETEA-LU, goes through June and it is unlikely that there will be new legislation by that time. There will probably be another extension. There is some optimism though, and hopefully it will maintain current funding levels. The big changes that we are expecting should have passed our core focus on will include more of a focus on performance management and performance measures, so we may see a slightly different approach to how we handle the transportation program. There will be certain performance thresholds that need to be met – if you're meeting them, then you'll have more flexibility to do greater things. However, if you're not meeting them, you'll be held to a set of standards without much flexibility. There's talk that there will be a lot of environmental streamlining included as well.

One major initiative that FHWA has is called Every Day Counts (EDC). What this is is a concept that every day does count and we try to make things better, try to look for better ways to do things and as Don said, be more efficient, more effective and more elegant, all of those things play into that. Those are our words but those are the same principles as the governor's goals. We're trying to

do things better, faster and more effectively. Something called the EDC Exchange is part of that where we share information and try to get it out to local governments and as broadly as possible. The one coming up on June 21, 2012 is for Mitigation Banking and In-lieu Fee Mitigation and whether that can save money for our program. That was one of the mutual questions “Can that really save you time and money?” The answer to this is “yes”. Those EDC Exchange sessions are held around the state - we have one here in the metro area, in Lakewood at our USDOT building at 12300 W. Dakota. There are also some sessions in Greeley, Pueblo, Grand Junction and Durango. If you’re interested in attending any of these, contact John Cater, Bill Haas, Stephanie Gibson or Aaron Bustow from FHWA - they all have more information on that. But it is a great opportunity to find out a little bit about Mitigation Banking and you can get a copy of the agenda from the FHWA website. It’s a two hour session so it’s not super long; it’s from noon – 2, on the 21<sup>st</sup>, but it gets into the mitigation process and has examples from around the country like northern California and Virginia and it’s a chance to learn a little more about that. One last thing, Every Day Counts has been going for almost two years now, so FHWA will be rolling out a second set of those initiatives in the next couple of months. There should be 12 to 20 initiatives or so.; several of those initiatives should impact most of us around the table here regarding effective and more streamline ways to get our jobs done. So stay tuned for that and we’re all looking forward to it.

- Bill Haas - Planning and Environment Team Leader FHWA Office

The EDC Exchange that’s coming up next week is a national exchange and all the states are participating in that at the same time. There is an opportunity in the middle for discussion and so you can hear what others are thinking about, discussing, as well as asking questions. We definitely encourage folks to participate - if you have any questions let our FHWA staff know.

For this TERC meeting, we have a theme. The theme of this meeting is Creative Mitigation, so it is in line with what John said; that we’re trying to look at things differently and not just do the same things we’ve done. We want to be efficient with what we’re doing now. This theme approach for the meeting is based on feedback that we’ve received from the last TERC meeting, so we’re trying it out in this meeting.

- Larry Squires - FTA

Livability grants should be out soon. Linda Gherke, FTA Regional Administrator, will be coming in soon. Charmaine Knighton will still be there as acting administrator until then.

- Steve Turner – History Colorado

History Colorado has a new State Historic Preservation Plan. If you haven't seen it, it will be online or you can get a copy before you leave. History Colorado goes beyond compliance and has the State Historic Fund that provides grants around the state to help fund local history projects. Part of what the program is doing hopefully will affect your lives in the future in a positive way. History Colorado is in the process of looking into its entire information management system (COMPASS system) and is trying to update/upgrade it. Also, just to let you know that on July 17-19 the National Council of the State Preservation Officers will have an annual planning session here, at the History Colorado Center. They will have a reception and invites will be sent out to all of our partners so hopefully some of you will have an opportunity to attend the reception.

- Dan Coursen – History Colorado

History Colorado has another thing of interest and example of Proactive Policy to mention. The state department of emergency management has commenced a process regarding how to deal with cultural resources during emergencies as a result of the fires we had last year. It goes into how to identify cultural resources and how to deal with them after there has been an emergency situation. It's not just regarding buildings and sites but also records and collections around the state. One thing that will come out of it is a list of all the facilities around the state in one document which may be of help to all of us.

### **3 REVISED TERC CHARTER - DEBRA PERKINS-SMITH – CDOT**

The current charter redlined with suggestions from the last meeting was shown (attachment 1).

#### **A) Purpose of the TERC**

The TERC is going into its tenth year. Based on discussion at the last meeting, the TERC has really evolved over the last ten years so we're in a little bit of a different place than when the charter was developed. We were very much into conflict resolution in the past and those relationships have evolved and improved and we're not in the same place as ten years ago. Now we're at the point where based on the discussion from the last meeting it seemed there were three things that were pretty important. The TERC still provides benefits and it has a lot of meaning to the agencies but has a different meaning than ten years ago. Those three things were:

1) The TERC provides a relationship and dialogue so that issues can be resolved in a smaller group. We already have relationships so the issues can be resolved more easily.

2) We can anticipate some future changes such as legislation and this is a good forum to talk about what those changes may be. It's also a good forum to have a discussion about how those changes from one agency could affect changes to other agencies. For example, when the new reauthorization goes through, this is a forum to discuss what that means for everybody.

3) The TERC is a good way to stay informed about what's going on with other agencies as well as be educated about policies and requirements of other agencies to actually help streamline a lot of processes and reports. The big picture was that it's important to keep the TERC together because it does have a lot of value although it's different than it was in the past.

### **B) Membership of the TERC**

There was a discussion as to what the TERC's membership should be and based on its new role, the members that were here at the last meeting thought that we should open this up more and not be exclusive. So, other agencies should be invited to participate and anyone could actually come and attend the meetings. It's still up in the air as to who should actually sign the revised charter, but it's important to keep everyone's commitment to the TERC.

### **C) Title of the Document**

Some agencies said that they could not sign charters, so in the redline version being shown here today, the name was changed to a term called "participation commitment" as a way of getting around that. There was a discussion at the last meeting that it still might be important to actually sign something so that agencies are showing their commitment going forward to continue this group. The group was asked if "Participation Commitment" was a better term.

Susan Martin (FTA): No, she would rather just see it as something like "Memorandum of Agreement/Understanding". She thinks some people are probably going to be over sensitive to the term commitment - it's like "what am I committing to?" She's always seen this as kind of a jovial networking group where we share ideas and she thinks that we need to just think a lot more about why the group is here and what its purpose is. She thinks from that we can probably come up with a better title for it as well. She personally thinks "commitment" is a little strong for what we're trying to do here.

Don Hunt (CDOT): He thinks that commitment is often important. It's hard for him to get here; it's hard for him to get the time and he would hope that the agencies can have the highest level of staff here participating on a regular basis. It's very important. So whether it's called "Participation Commitment" or something else, he thinks signing it and committing an agency at the highest possible level is what it needs to work.

Susan Martin: She indicated that's where it was before, high level/executive level personnel, and those people could never get the time to attend. They did originally, but they are not the people that come anymore. It's the worker bees, the people that share ideas.

Don Hunt: He'd be interested in having the agency designate a permanent delegate so we know that there is a commitment from the agency.

Debra Perkins-Smith (CDOT): She thinks that, from the discussion last time, there was commitment by the agencies at the executive director level, but there would be a little more leeway provided about who actually attends the meetings to make sure the agencies are at the table.

Don Hunt: He knows some agencies had heartburn signing an MOA/MOU and charter is not a good word.

Larry Squires (FTA): FTA as well as HUD were the ones that brought up at the last meeting the idea behind moving it from a charter perspective with which you initially engaged one another, to more of a participatory and participation commitment perspective. That was a softening to some extent of the the exclusive agreement/charter type language and that was the direction that the entire TERC was moving as well.

Susan Martin: She thinks everyone needs to understand what a charter is - She gave examples about how the Mayflower charter was just really a founding document and how FTA has a poster on their wall that says "Partnering Charter" that was done with UTA. She feels everyone may need to look back at your regulations and make sure that a charter really can't be signed and really understand what is a charter.

Bill Haas (FHWA): He mentioned that the TERC members signed the PEL Partnering Agreement about five years ago or so, which is another instrument that is out there. We need to pick something that seems to be consistent with what we're trying to get out of here.

Debra Perkins-Smith: She asked the group if agreement is softer than charter or MOU/MOA and if it's better than commitment?

Susan Martin: She indicated that an MOA is an agreement but that she doesn't understand why people are so afraid of that either. FHWA and FTA had an intergovernmental agreement on how we can't do regional and significant environmental projects, which was kind of along those same lines. The other thing she was looking at is to get more of the environmental issues in here. We're talking about environmental streamlining, environmental mitigation, and

networking so they should be put it in this document since those are some of the things we're really trying to do.

John Cater: He indicated that at the same time, we want things to last over time as issues change and evolve. We don't want to highlight issues of the past; we want to keep it broader.

Carol Anderson (EPA): She likes the spirit of the words Participation Commitment, because if you read that first paragraph all the words in there that are changing show how the TERC process has really gotten better. Participation commitment is collaborative.

Stephanie Gibson (FHWA): If people were able to sign the PEL agreement three or four years ago, this may be better as just participation agreement.

Steve Turner (History Colorado): He thinks that what's really important is the text. He agreed with Don that if we're going to go through the process of doing this and have all these entities sign it, it should be something that's relatively binding in its intent. He thinks that indicating that the agencies are somehow committing to some action is important. He thinks participation needs to be in the title and commitment is fine or agreement could be okay (not as strong), but whatever it is called should be about committing to participate in this openly and sincerely.

Debra Perkins-Smith: She suggested going into the actual text and going back to the title later.

## **D) Text of the Document**

### **a. First Paragraph**

Debra Perkins-Smith: She started walking through the revisions starting with the first paragraph that really is the purpose for what we're trying to achieve with the TERC – to “promote collaborative working relationships”. A few people thought last time that it was fairly good and just needed some minor tweaking. She read the text to the group with the changes. Part of the discussion last time was opening this up a little bit more so it's more than state and federal resource agencies. There were no additional comments on the first paragraph, so she moved on to the second paragraph.

### **b. Second and Third Paragraphs**

Susan Martin: She asked if anyone knew what the phrase “Transportation Commission has adopted policies.” meant, what those policies are, and what does it mean to the Forest Service or some other agency. She wasn't sure how it related to this organization and this document.

Stephanie Gibson: She thinks it does relate because it shows CDOT's environmental commitment/stewardship and that is how we interact with resource agencies in particular. Maybe it can be worded differently if it is unclear but basically it's saying that CDOT is committed to helping the environment and that it's not just the worker bees who said "it would be nice to do something for the environment".

Susan Martin: She suggests fleshing it out a little bit and said that she assumes it's the Colorado Transportation Commission so should add "Colorado" to the name.

Dan Coursen: He suggested changing that the transportation commission "has adopted" policies to "adopts".

### **c. Fourth, Fifth, and Sixth Paragraphs**

Debra Perkins-Smith: She moved on to the fourth paragraph's revisions and asked if there were any other comments on that paragraph.

Susan Martin: She has an issue with all of the references to policy level interactions. In the last paragraph it talks about policy efforts by CDOT and FHWA – she said that this is not a policy making body and there isn't the ability to make policy, but the group can talk about policy. She thinks if the word policy is going to be used, it should be used in terms of discussion rather than any inference that there is a policy making effort or anything of that nature for this particular body.

Don Hunt: He said that he's here because he feels there are policy level discussions and he wouldn't be here if that wasn't happening. This group affects CDOT policy by providing input on environmental policy.

Bill Haas: He indicated that one of the purposes for creating the TERC was to discuss project issues and take those discussions from the project level and look at policy on a program level.

John Cater: He thinks the discussions from here influence policy.

Stephanie Gibson: She agrees that this group isn't a policy-making group, but works together to discuss and affect policy at agencies.

Susan Martin: Paragraph 6 says "identify and anticipate policy issues" which is closer to what we are doing. The terminology "policy level interactions" does not apply to this group.

Debra Perkins-Smith: She asked if:

- In Paragraph 4, replacing "regular policy-level interactions" with "regular interactions",
- In the 4th paragraph say "to discuss key transportation and environmental policies" instead of "concerning transportation related environmental issues, opportunities, and concerns", and
- Add the policies into the next one. So Paragraph 5 would read "where CDOT and FHWA wish to host a forum in Colorado that includes representatives of these government agencies to discuss key transportation related environmental issues, policies, opportunities and concerns."

Susan Martin: She thinks Paragraphs 4 and 5 seem redundant.

Debra Perkins-Smith: Agrees and suggests grouping those two together.

Group comment was to combine paragraphs 4, 5, and 6.

Don Hunt: He asked if the language "issues, policies, and programs" can be included. Group was okay with this suggestion. Seventh Paragraph

Debra Perkins-Smith: She moved on and read the edited 7th paragraph, "Therefore be it recognized that the Colorado Transportation Environmental Resource Council (Council) is hereby reaffirmed as an effective forum for communications, cooperation and collaboration on matters of mutual interest to its members that address issues of transportation and environment".

Group comments: Change "be it" to "it is." Add the word "regular". Take out "Therefore" and start with "The Colorado Department of Transportation". Eighth Paragraph

Debra Perkins-Smith: She moved on to the eighth paragraph, the first one starting with "Further."

Group comments included:

- It should be "among", not "between" on the first line.
- Discussion about the wording with "policy" in it. The sentence is about discussion and communication and not policy making.
- Under point (1) Change "efforts" to "development", so it will be "planning and policy development".
- Under point (2) Take out "resource agency" so that it just says "plans, regulations, and procedures" or just say "resource and other agency plans, . . .").

- Under point (3) say “key social, economic, and environmental issues, opportunities, and concerns”.

#### **d. Ninth and Tenth Paragraphs**

Debra Perkins-Smith: She moved on to the 9th and 10th paragraphs and asked if there were any comments.

Comments to change “members” to “representatives” or “participants” in both paragraphs.

Comments in the 10<sup>th</sup> paragraph:

- To change “air” to “discuss”,
- Change “all related concerns” to “all concerns related to the purpose of the Council”,
- Delete “the Council” before “meetings”, and
- Delete the rest of the paragraph after “meetings”.

#### **e. Eleventh Paragraph**

Debra Perkins-Smith: Discuss comments on 11th paragraph. There was a comment to add “Colorado” before “Division Administrator” since there are two FHWA signatories (Colorado Division and Central Federal Lands).

#### **f. Twelfth Paragraph**

Debra Perkins-Smith: Discuss next paragraph on membership.

Comments:

- To add “appointed by the appropriate agency executive” after “representatives” and
- Add “and metropolitan planning organizations” after “agencies”.
- Need to add DRCOG, RTD, and MPOs to list. Also, Governor’s Energy Office is now Colorado Energy Office.

#### **g. Last Paragraph after list of Representatives**

“Further, non-signatory government agencies and non-government entities that are not signatories to this Commitment may request to participate in the Council”

Comment to delete “request to”.

#### **h. Signatory Page**

Susan Martin: She asked what the point of signing this will be – it’s agreeing to make a commitment to attend from what she can see.

Debra Perkins-Smith: She confirmed that’s what it means.

Susan Martin: She asked if the signature lines have to show all the executives.

Don Hunt: He said that he thinks so.

Debra Perkins-Smith: She suggested adding titles on the signature page and said that everyone will have one more look at this and think about how it should actually get signed.

Don Hunt: He suggested that there can be a photo-op and each agency can type something up and share that with whomever. The hope is to get this all finalized by October 2012 at the next meeting.

**Next step is to send out this agreement for a final look.**

#### **4 HOST PRESENTATION: OVERVIEW OF HISTORY COLORADO PRESERVATION PROGRAMS AND ACTIVITIES**

##### Steve Turner - VP of preservation programs - History Colorado

They are both a state agency and nonprofit organization and are also keepers of the history for Colorado. Twenty percent (20%) of what they do is agency work. They have historic places all around Colorado. Have huge collections in this building of historical collections. Have over 15 million documents and over 200 thousand actual objects. They have the original press that the Rocky Mountain News was printed on. They also own and operate Georgetown Loop. There is a huge amount of educational outreach; over 30 thousand students and they administer the Historic Preservation Act of 1966 (and how it came to be as a result of the impacts of the Federal Actions on both historical exposure as well as construction on the interstate highway system). Preservation of this irreplaceable heritage is in the public interest so that it's vital legacy of cultural, educational, aesthetic inspirational economic and energy benefits.

Intergovernmental services - certified local governments there are 50. They preserve State and Federal tax credits. Section 106 reviews last year were 2966 projects. Preservation Planning Unit – produce the new statewide historic preservation plan and they also work on the national and state register plans. Have 1479 national register listings recorded and 1913 state register listings recorded. This particular unit expands the recognition of preservation. The main goals of the Preservation Planning Unit preserve the places that matter. There is also an information management system which looks at comprehensive revamping of systems to make it more user friendly. There is a tremendous amount of information (almost 2000 sites in the database). The State Historical Fund is the largest grant program for state historical funding (education, survey and planning and anything that relates to preservation). The total that was awarded to projects since the program's inception is 3756 in all 64 counties; they also deal with acquisition plans. They have traveled all over

and asked the question “What does preservation mean to you?” Everyone always has different opinions on this question. See attached presentation.

#### Richard Wilshusen – Archaeologist at History Colorado

They manage all unmarked graves in the state of Colorado. They also have an obligation as the state archaeologist to deal with unmarked graves because they can be Native Americans and there is a special process when dealing with these graves. They also have to work both with county coroners and law enforcement to get them to be able to recognize unmarked graves. How does he creatively mitigate this junction between American Indians who have historical concerns and how coroners who don't always know anything about American Indian burials can recognize that? He would like to conduct a training course on discovery, burial contexts, etc. would like it to be a very quick and thorough course. The slide on How to identify Human Bone - will implement a training program for this. Graves are often disturbed or exposed and there will be training on this as well as training on Federal and State laws. There are different types of unmarked burials; crevice, pits, platform (and bundle), cremations, unmarked historic period burials, etc. and it is important to separate and recognize the different types of burials. The slide on Recovery Practices - establishes grids, excavation procedures, skeletal analyses (interactive work – to train in skeletal remains). This department has a large GIS database that they often utilize. The system Program Compass - only registered users can access. There are a lot of details in program in regards to historic sites. Some sites have long and complex histories, some that are large archaeological sites that are only occupied for one or two decades, stone rings, standing wickiups, etc. We often forget that cities such as Denver have buried histories. They get asked the question “How have the arrangements for space changed through time?” a lot. See attached presentation.

## **5 GEORGETOWN ROCK FALL VIDEO**

#### Lisa Schoch (CDOT) and Amy Pallante (History Colorado)

The I-70 Mountain Corridor is full of history. CDOT took a broad look at the corridor and the effects of installing so much mesh fencing for rock fall mitigation. The fencing creates an adverse effect and so mitigation was needed. In a collaborative effort between CDOT and Georgetown, a film was developed as that mitigation. It is a hybrid film that talks about historic Georgetown and CDOT's rock fall work. This collaboration is an example of the relationships built from the TERC. CDOT and History Colorado are starting to look at more creative mitigation opportunities that benefit communities, too. Mitigation is put in by an agency, but the people are the ones that have to live with it. Follow this link to view the video:

<http://www.coloradodot.info/programs/environmental/archaeology-and-history/new-video-force-of-nature>

## 6 MITIGATION TRACKING/ADAPTIVE MITIGATION

Yates Oppermann (CDOT) and Stephanie Gibson (FHWA)

Presentation (see attached) on the new way of identifying and managing environmental mitigation with the intent of both clarifying how design and construction actions impact the environment, but also allowing for more flexibility as projects move beyond the environmental review into design and construction. This adaptive mitigation allows for flexibility while still ensuring compliance with laws and regulations because the mitigation is still prescriptive but in a performance-based way. Benefits to other agencies – there is a clearer connection between activities and mitigation and clear communication as to when mitigation will be implemented. Examples (wildlife) replacing erosion control logs (activity). Potential impact - if use erosion control logs with mesh netting snakes can get caught. Mitigation-don't use plastic netting use fiber instead. Visual - activity and location creates the impact. Benefits - clarify what triggers requirements for mitigations, minimizes the need for reevaluations where no substantive change to impacts (paperwork reduction) and provides better direction on how to revise the design/construction practices to avoid impacts. Where are we with Implementation? - Twin Tunnels field test; initial lesson learned: more direction needed on how to identify activities, locations, and impacts. Endangered Species Matrix (SWIFT) - identify "standard" activities, locations and mitigation for impacts to Federal and State listed species. Next step - more field tests, develop guidance and standards. Commitment tracking - trying to be more systematic (environmental commitment tracking sheet (6 columns) - that's what goes in the NEPA document). It can track any 106 mitigation. Permits can get more specific than NEPA.

### Questions:

- Will the environmental commitment tracking sheet eventually be in one general place where you can do a search? That is the ultimate goal, but the future system is unknown at this time.
- Can the public look at this form? At this point, it's in an Excel spreadsheet and so it will always be with the project.
- Can it be requested under CORA? Yes, likely. - Are we not being proactive in submitting this to agencies? This isn't required to be submitted to the agencies, but if an agency wants to verify mitigation, it can be shared.
- Do you view this as applicable to bigger projects or every project? Every project.
- When should this be rolled out? It has already been rolled out and every

project file should have mitigation tracking form. It is getting there - it is a process.

## 7 SHORT SUBJECTS

- 1) CDOT Project Calendar: The Twin Tunnels EA (Region 1) will be out for public review in July with a public hearing on July 25. The US 287 in Lamar EA (Region 2) is expected to be out for public review late this summer. The US 24 West EA (Region 2) is currently out for public review and the hearing was on Monday. The US 550/160 FSEIS (Region 5) is expected to be out for public review in late summer. The I-25/Arapahoe Interchange (Region 6) is expected to be out for public review in late summer.
- 2) Sustainability Subcommittee Update: No update because there hasn't been much interest from the universities in hosting a website, which was a recommendation from the subcommittee.
- 3) Theme Ideas: Send ideas and agenda items to Yates Oppermann for the next meeting.
- 4) Next Meetings: October 11 at EPA. Need to find a host for the February meeting. Jane Hann and Debra Perkins-Smith will ask CDPHE if they want to host.

## 8 MEETING END

**MEETING SCHEDULE END: 12:00 PM**

Meeting Actual End: 12:30

## 9 DECISIONS MADE

- See Notes.

## 10 NEXT MEETING

Next Meeting: October 2012, EPA Region 8 Offices, October 11, 2012, 9:00-12:00

**Note that the location has been changed since this meeting to CDOT's Region 6 Small and Large Conference Rooms.**

### Sign-In June 2012

Last Name	First Name	Agency/Organization	
Anderson	Carol	EPA	<i>Carol Anderson</i>
Baker	Gene	USFS	<i>Gene Baker</i>
Beckhouse	David	FTA	
Bennett	Doug	FHWA	
Berna	Jeff	FHWA CFL	
Bohan	Suzanne	EPA	
Brown	Reeves	DOLA	
Bustow	Aaron	FHWA	<i>Aaron Bustow</i>
<del>Brand</del> Carey	<del>Rena</del> Tim	USACOE	<i>Rena Brand</i>
Casper	Craig	PPACG	
Cater	John	FHWA	<i>John Cater</i>
Chen	Wei	DRCOG	
Cook	Steve	DRCOG	
Cooke	Kate	RAQC	<i>Kate Cooke</i>
Corson	Dan	History Colorado	<i>Dan Corson</i>
Coursen	Robin	EPA	
<del>Davidson</del>	<del>Cliff</del>	<del>NFRMPO</del>	
Dobos	Hillary	GEO	
Espy	Leigh	BLM	
Evans	Lauren	ACEC	<i>Lauren Evans</i>
Fronczak	David	EPA	<i>David Fronczak</i>
Gibson	Stephanie	FHWA	<i>Stephanie Gibson</i>

Gomez	Dan	HUD	
Gunderson	Steve	CDPHE	
Haas	William	FHWA	<i>M</i>
Hankins	Helen	BLM	
Hann	Jane	CDOT	<i>My</i>
Harrison	Jamie	BLM	
Henderson	Vanessa	CDOT	<i>UH</i>
Herrera	Guadalupe	HUD	
Hill	Andy	DOLA	
Hobson	Scott	Pueblo COG	
Hunt	Don	CDOT	<i>(DHP)</i>
Kaufman	Garry	CDPHE	
King	Mike	DNR	
Knightcn	Charmaine	FTA	
Kohrs	Sandi	CDOT	
Kord	Nicolle	CDOT	
Linner	Susan	USFWS	
MacDonald	Rob	PPACG	
MacDonald	Tracey	CDOT	
Martin	Jim	EPA	
Martin	Susan	FTA	<i>SVM</i>
McCannon	Steve	RAQC	
Michael	Alison	USFWS	<i>Kerrin</i>
Mitchell	Sarah	CDOT	

Nichols	Ed	History Colorado
Oppermann	Yates	CDOT
Pallante	Amy	History Colorado
Perkins-Smith	Debra	CDOT
Pettit	Wendy	CDOT
Randall	Robert	DNR
Reimer	Marilen	ACEC
Rudolph	Martha	CDPHE
Rudy	Steve	DRCOG
Scheuerman	Michelle	CDOT
Schroeder	Alex	GEO
Silva	Lisa	CDPHE
Spensley	Skip	Consultant
Squires	Larry	FTA
Steinle	Allan	USACOE
Strobel	Phil	EPA
Swartout	Sue	CDOT
Telford	Liz	RTD
Truan	Van	USACOE
Turner	Steve	History Colorado
Urbina	Christopher	CDPHE
Van Meter	Bill	RTD
Vaughn	Rodney	FHWA RC
Wettstein	Cal	USFS

*Amy Pallante*

*Debra Perkins-Smith*

*Martha Rudolph*

*Steve Rudy*

*Larry Squires*

*Steve Turner*

Whittlef	Pepper	Pueblo COG
Wilkinson	Earl	Pueblo COG
Williams	Jason	USACOE
Winterton	Nicole	FHWA CFL
Wood	Susan	RTD

Richard Wilkerson History CO Richard Wilkerson

---

# COLORADO TRANSPORTATION ENVIRONMENTAL RESOURCE COUNCIL

---

## COUNCIL CHARTER 2002 PARTICIPATION COMMITMENT 2012

---

---

**Whereas**, the Colorado Department of Transportation (CDOT) and the Federal Highway Administration (FHWA) are interested in ~~developing stronger promoting collaborative~~ working relationships and ~~better open~~ communications ~~with State and Federal resource amongst~~ ~~government~~ agencies in Colorado whose responsibilities and interests intersect with the state transportation system;

**Whereas**, the Transportation Commission has adopted policies guiding CDOT in its mission and activities as they relate to the environment;

**Whereas**, the signatories to the ~~Charter-Commitment~~ all have missions that affect each other in some way;

**Whereas**, there is a need for regular policy-level interactions among CDOT, FHWA and ~~State and Federal resource other government~~ agencies in Colorado concerning transportation related environmental issues, opportunities, and concerns; ~~and~~

**Whereas**, CDOT and FHWA wish to host a forum in Colorado that includes representatives of these ~~resource government~~ agencies to discuss key transportation related environmental issues, opportunities and concerns; ~~and~~

**Whereas**, CDOT and FHWA desire to use this forum to ~~discuss and resolve~~ ~~identify and anticipate~~ policy issues in a timely, appropriate and beneficial manner with the ~~resource government~~ agency representatives; and to inform and educate ~~members and attendees attendees~~ of key issues unique to each agency;

**Therefore**, be it recognized that the Colorado Transportation Environmental Resource Council (Council) is hereby ~~established reaffirmed as in an effort to establish~~ an effective forum for communications, cooperation and collaboration on matters of mutual interest to its members that address issues of transportation and environment.

**Further**, it is the purpose of the Council to ~~facilitate communications between Council representatives on:~~ (1) ~~improve communications between CDOT/FHWA and resource agencies concerned with~~ transportation ~~planning and development policy~~ efforts by CDOT and FHWA; (2) ~~improve communications between CDOT/FHWA and resource agencies regarding~~ resource agency plans, regulations, and procedures as they ~~ea~~ affect the transportation system; (3) ~~to discuss~~ key environmental issues, opportunities and concerns among the ~~member of the~~ Council ~~representatives~~; and (4) ~~to address/resolve~~ ~~identifying and anticipating~~ policy issues in a timely, appropriate and mutually beneficial manner; ~~and~~.

**Further**, the Council ~~members~~ [representatives](#) agree to cooperatively seek the most effective and innovative procedures for accomplishing the missions of each of our agencies; ~~and~~

**Further**, the Council ~~members~~ [representatives](#) agree to fully and openly air all related concerns at the Council meetings; and agree to fully consider issues and concerns expressed at these meetings in any associated decisions that are within the authority of each agency; ~~and~~.

**Further**, the Council shall be chaired by the Division Administrator of the Federal Highway Administration [or designee](#) and the Executive Director of the Colorado Department of Transportation [or designee](#); ~~and~~

**Further**, the ~~membership of the~~ Council will be composed of ~~decision makers~~ [representatives](#) from the following ~~resource governmental~~ agencies:

US Bureau of Land Management;

US Army Corps of Engineers;

US Environmental Protection Agency;

US Federal Highway Administration; ~~- Colorado Division~~

[US Federal Highway Administration, Central Federal Lands Division](#)

[US Federal Transit Administration](#)

US Fish and Wildlife Service;

US Forest Service;

[US Department of Housing and Urban Development](#)

[History Colorado](#)

Colorado Department of Natural Resources;

Colorado Department of Public Health and Environment;

Colorado Department of Transportation;

[Colorado Department of Local Affairs](#); ~~and~~

[Colorado Governor's Energy Office](#);

**Further**, ~~non-signatory government agencies and non-government entities that are not signatories to this Commitment may request to participate in the Council.~~

SIGNATURES

DATE

---

US Bureau of Land Management

---

US Army Corps of Engineers

---

US Environmental Protection Agency

---

US Federal Highway Administration  
- Colorado Division

---

US Federal Highway Administration,  
Central Federal Lands Division

---

US Federal Transit Administration

---

US Forest Service

---

US Fish and Wildlife Service

---

US Department of Housing and  
Urban Development

---

History Colorado

SIGNATURES

DATE

---

Colorado Department of Natural  
Resources

---

Colorado Department of Public  
Health and Environment

---

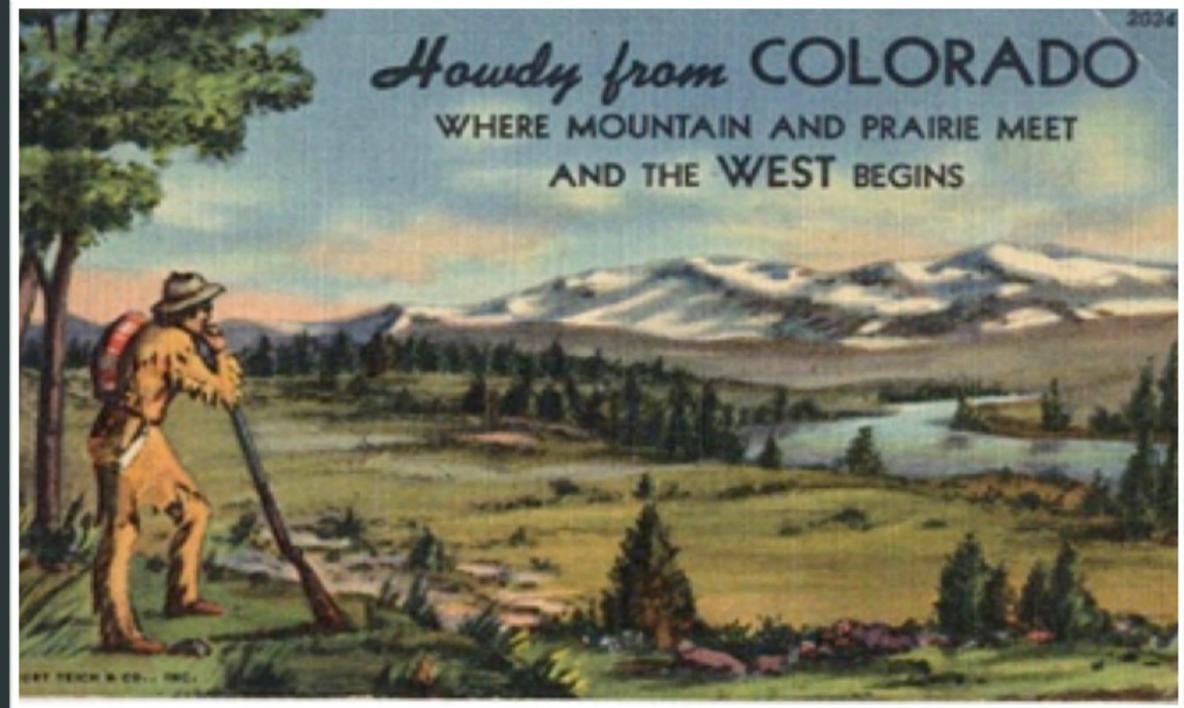
Colorado Department of  
Transportation

---

Colorado Department of Local  
Affairs

---

Colorado Governor's Energy Office.



# TRANSPORTATION ENVIRONMENTAL RESOURCE COUNCIL

Steve Turner, AIA  
Vice President of Preservation Programs  
History Colorado



**5,100 members, 550  
volunteers,  
126 employees**

**12 historic sites and  
museums statewide**

**Stephen Hart Research  
Library**

**Preservation Programs**

- State Historical Fund (SHF)
- Office of Archaeology and  
Historic Preservation (OAHP)
- Office of the State  
Archaeologist
- State Historic Preservation  
Office

**Renowned historical  
collections**

15 million documents  
750,000 historic photographs  
200,000 artifacts

**Smithsonian Affiliate**



CONNECTS CULTURES STATEWIDE

## Fulfill educational mission

Exhibitions

Museum-based  
programs

School Programs

E-learning

## Grants that support education

Colorado **Preserve**

America Youth Summit

**Archaeological** Field  
Schools

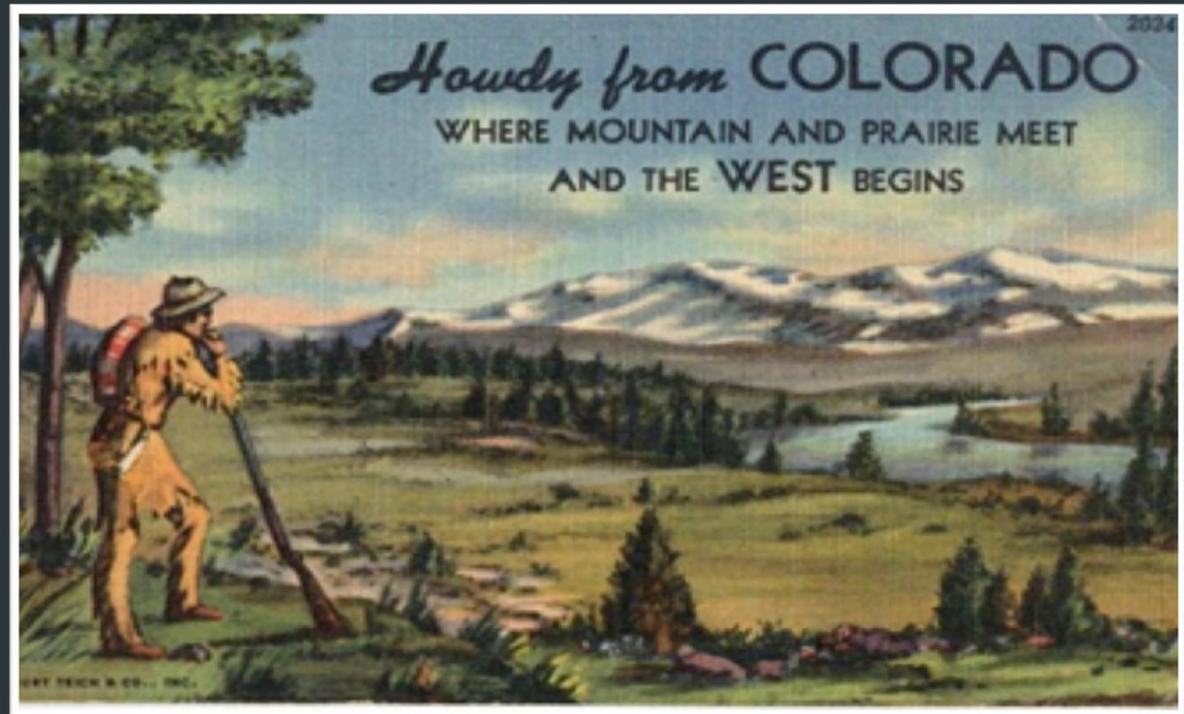
Grants for historic school  
building **restorations**



# Historic Preservation Act of 1966



“...the preservation of this irreplaceable heritage **is in the public interest** so that its vital legacy of cultural, educational, aesthetic, inspirational, economic, and **energy** benefits will be maintained and enriched for future generations of Americans.”



## PRESERVATION PROGRAMS OF HISTORY COLORADO

- \* Intergovernmental Services
- \* Cultural Resource Information Management
- \* Preservation Planning
- \* State Historical Fund
- \* Office of the State Archaeologist

# Intergovernmental Services

## Certified Local Governments

50

## State Tax Credits for Preservation

951 projects

\$98.5 million in total rehab cost

Including more than 1000 low income housing units!

## Federal Tax Credits

374 Projects in Colorado

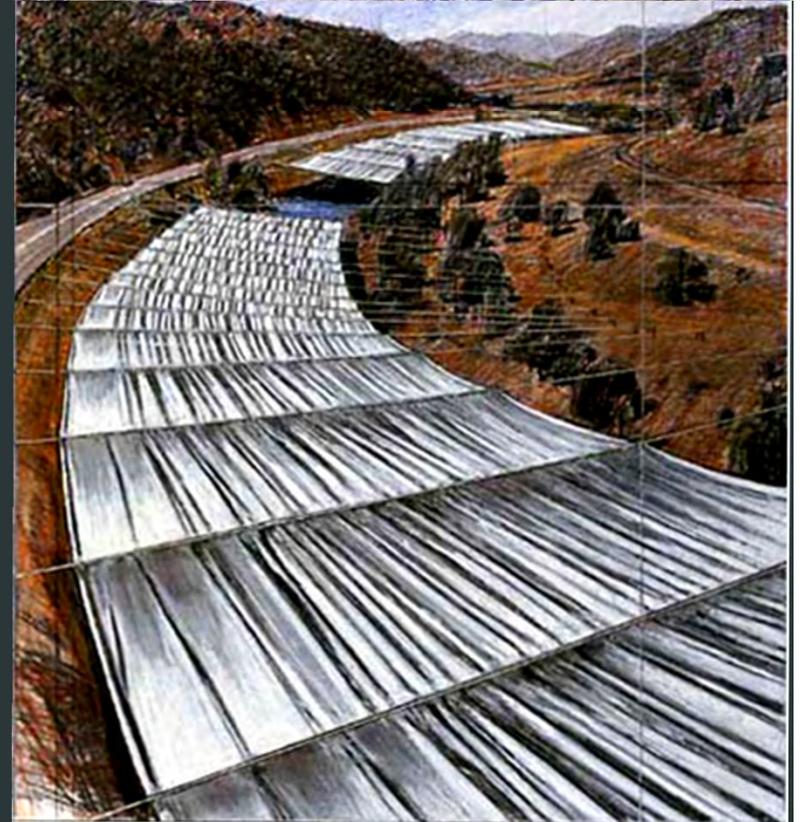
\$526.1 million in total rehabilitation cost

## Section 106 Review and Compliance

2,966 projects last year alone

## CLG Grants

Reserved for municipalities with a CLG program. Can include planning, designation, interpretation, etc.



# Preservation Planning Unit

Expanding the  
recognition of  
Cultural Heritage  
nominations to the  
National & State  
Registers



Total NR/SR Designations in Colorado

- 1,479 **National** Register Listings
- 1,913 **State** Register Listings

Renewed **Focus** on Threatened and Under-represented **resource** types

Written to **guide** historic preservation efforts in Colorado through **2020**

Main **Goals** include:

Preserving the **Places** that Matter

Strengthening and **Connecting** the Colorado Preservation Network

**Shaping** the Preservation Message

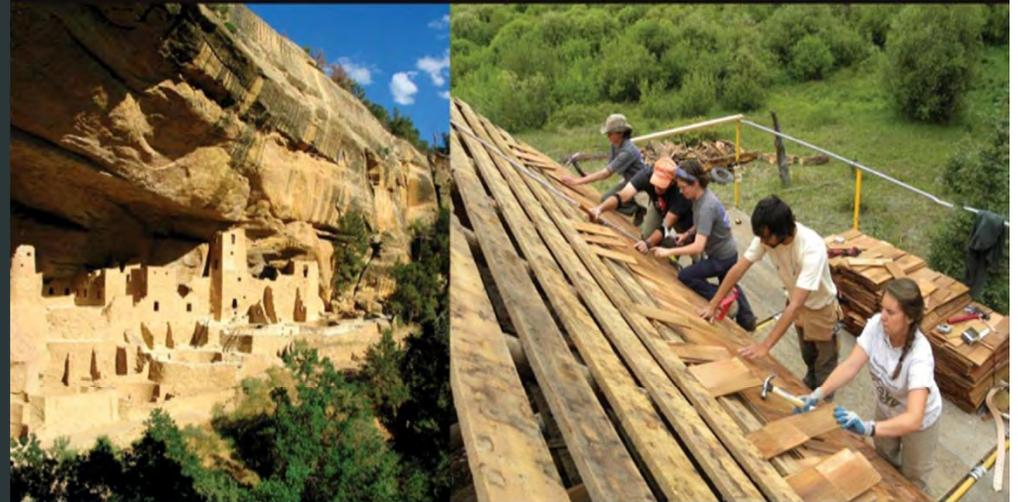
**Publicizing** the Benefits of Preservation

**Weaving** Preservation Through Education

## THE POWER OF HERITAGE AND PLACE

A 2020 ACTION PLAN TO ADVANCE PRESERVATION IN COLORADO

*2020 Colorado Statewide Preservation Plan*



# Information Management

Interesting facts for FY11

**199,879** currently in the database

**4,195 requests** for technical assistance were answered (phone, in-person, mail and e-mail)

**139,631** web hits

**151,116** sites viewed through Compass



# State Historical Fund

Total awarded projects  
since inception: **3,756** in  
all 64 counties

Value of all grants since  
inception: **\$243,012,795**



*What does preservation mean to You?*

jobs education memory lessons expensive enrichment perseverance character  
work *preservation* sustainability  
roots challenging respect *heritage/legacy* craftsmanship *identity* patriotism  
essential/critical foundation community vital reference  
sense of place *stories* history protection



OFFICE of ARCHAEOLOGY *and* HISTORIC PRESERVATION



# ***ARCHAEOLOGY***

*At the New History Colorado Center*



COLORADO HISTORICAL SOCIETY



**ARCHAEOLOGY**

*At the New History Colorado Center*

*Studying the site of the New History Museum gives us a glimpse of life and industry in Denver from the 1890s to 1950s.*



# ARCHAEOLOGY

*At the New History Colorado Center*





**ARCHAEOLOGY**

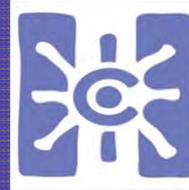
*At the New History Colorado Center*

*How has the arrangement of space changed through time?*

*How are artifacts arranged?*

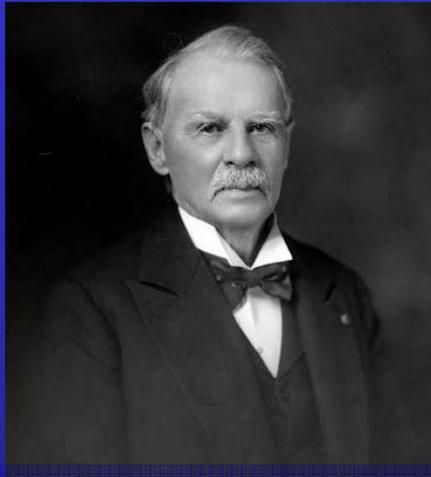
*How and when were utilities installed?*

*Do any economic or technological dissimilarities correlate with the gender or the ethnicity of the inhabitants?*



# ARCHAEOLOGY

*At the New History Colorado Center*



*Henry Cordes Brown*



*Perspective Map of 12th and Broadway block (center) looking north, from 1889  
drawn by H. Wellge, Library of Congress*

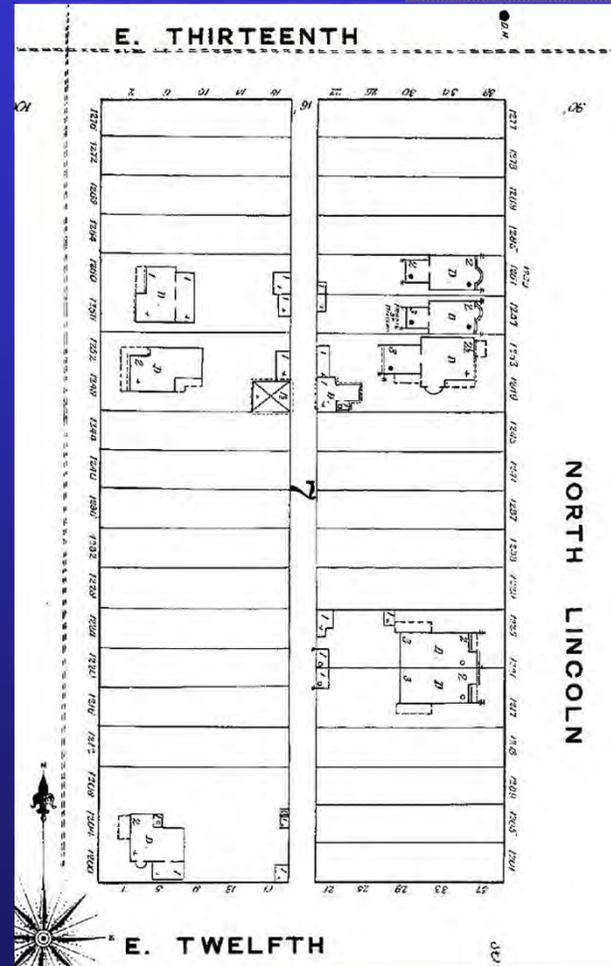
*Archival Research*



# ARCHAEOLOGY

*At the New History Colorado Center*

*An archival study aided the archaeological investigations. It included an examination of historic photos, county assessor records, business directories, land patent records, the Denver Householders' Directory, and Sanborn Insurance Atlases.*

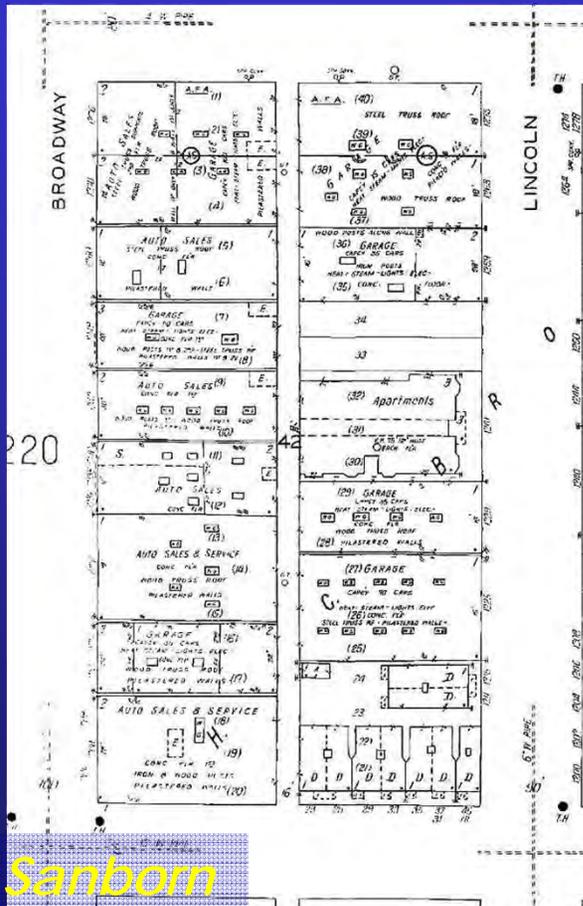


*1890 Sanborn*

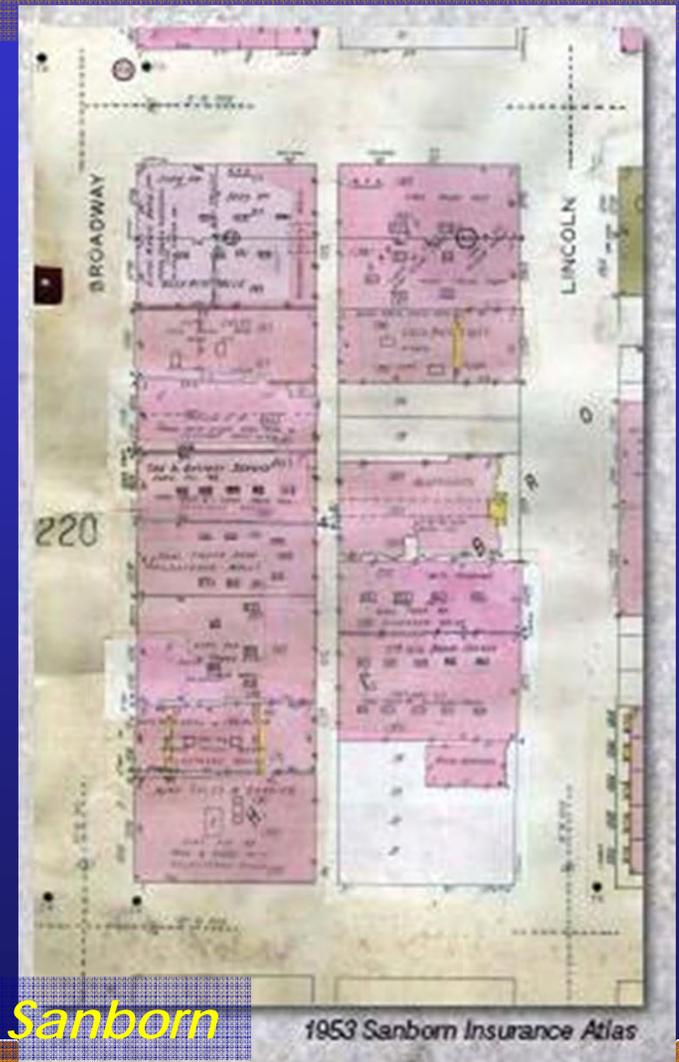


# ARCHAEOLOGY

At the New History Colorado Center



1929 Sanborn



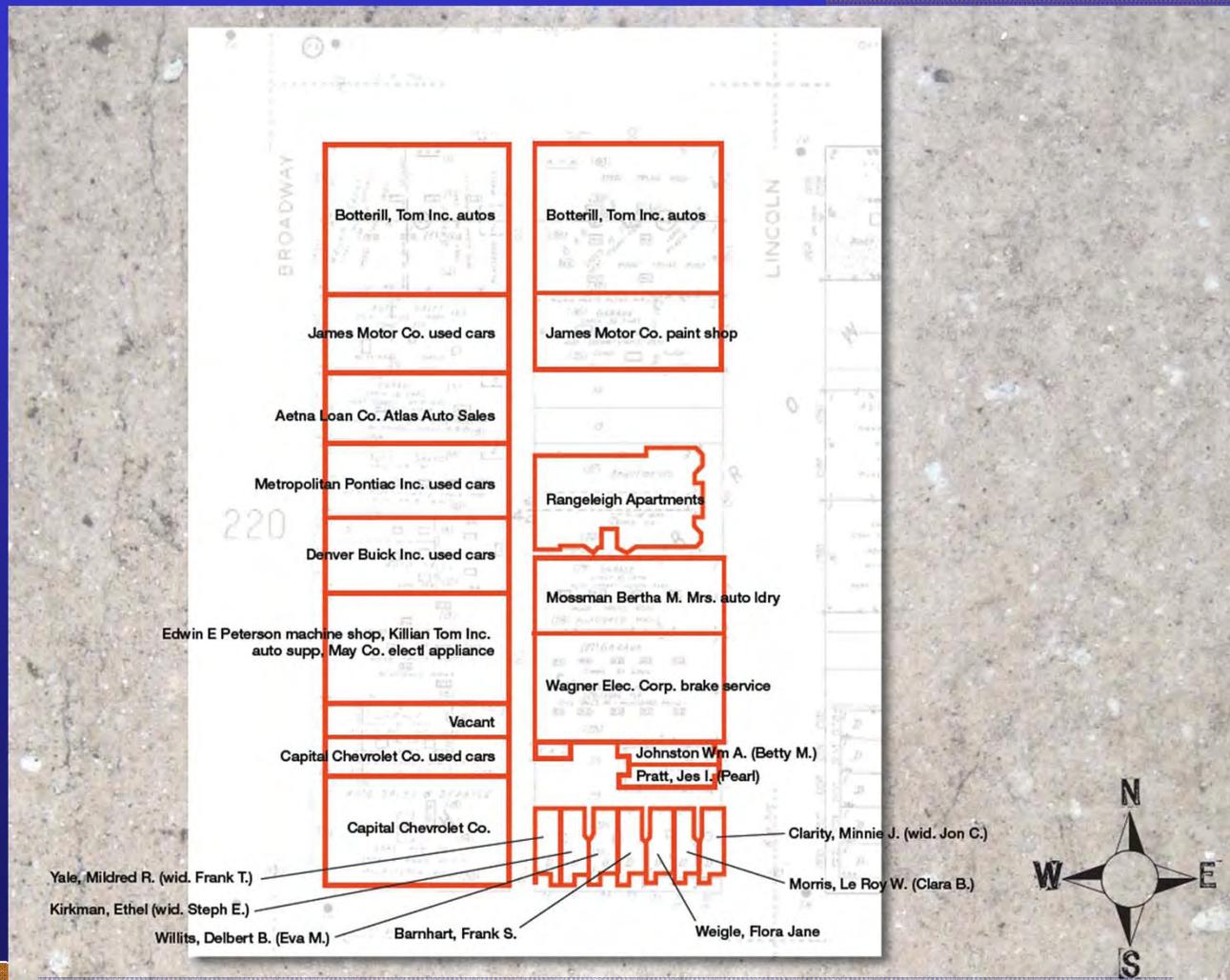
1953 Sanborn

1953 Sanborn Insurance Atlas



# ARCHAEOLOGY

*At the New History Colorado Center*





# ARCHAEOLOGY

*At the New History Colorado Center*



*Midway from 13th Ave. to 12th looking southeast, circa 1930, Denver Public Library*



# ARCHAEOLOGY

*At the New History Colorado Center*



*Looking down 13<sup>th</sup> around 1925*



*Botterill's Hudson and Essex dealership at 1270 Broadway, looking east, August 5, 1929*



# ARCHAEOLOGY

*At the New History Colorado Center*



*Two-story auto repair shop at 13th Ave. and Lincoln next to Tom Botterill's, photo taken  
around 1925, Denver Public Library*



# ARCHAEOLOGY

*At the New History Colorado Center*



*Angeleigh Apartments with neighboring homes located at 1241 Lincoln, photo dates to around 1904, Denver Public*



# ARCHAEOLOGY

*At the New History Colorado Center*

ial  
ken by  
owski  
the  
y  
well  
w  
t the  
f 12th  
n St.  
under  
logical  
tions





# ARCHAEOLOGY

At the New History Colorado Center



the new thrill

# OLDSMOBILE

De Luxe "88" CLASSIC  
SUPER "88" Ninety-Eight

Featuring NEW 160 H.P. ROCKET ENGINES and HYDRAMATIC SUPER DRIVE

OLD SMOBILE WEAVET-BEATTY

DENVER'S OLDEST AUTHORIZED OLDSMOBILE DEALER

SALES SERVICE PARTS

FACTORY TRAINED MECHANICS ON DUTY

## Weaver-Beatty

OLDSMOBILE COMPANY

CONVENIENTLY LOCATED 3 BLOCKS SOUTH OF THE STATE CAPITOL  
12th & BROADWAY • CHerry 5475

Jewett-Fawcett Motor Company at 1200 Broadway, photo taken  
 some time after 1927, looking east at what will become the site of the  
 proposed new Colorado History Museum. Denver Public Library



# ARCHAEOLOGY

*At the New History Colorado Center*

Search Maps [Show search options](#)  
businesses, addresses and places of interest. [Learn more.](#)

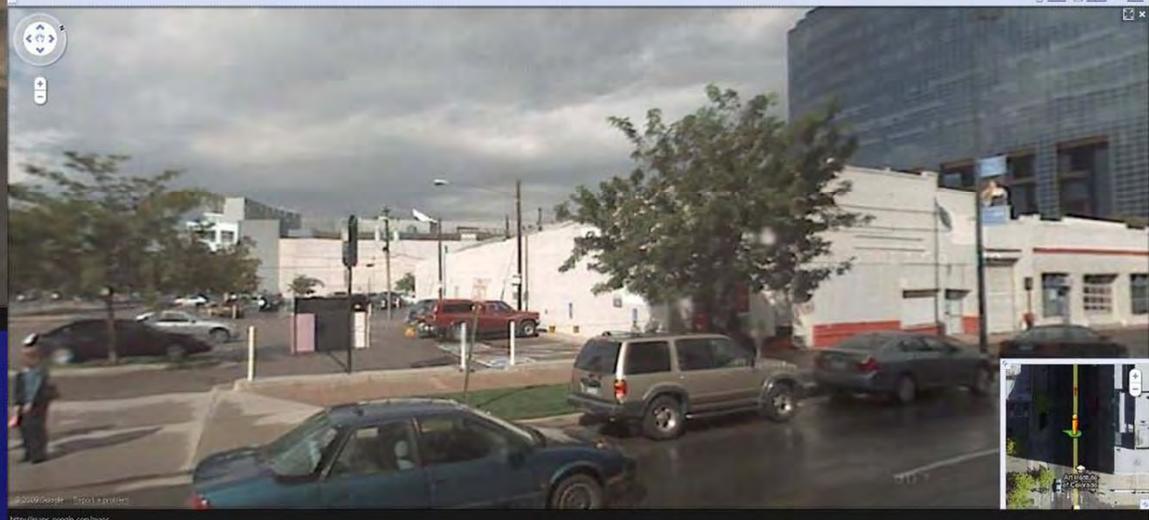
[Print](#) [Send](#) [Link](#)



[Web](#) [Images](#) [Videos](#) [Maps](#) [News](#) [Shopping](#) [Mail](#) [more](#) [thincm@earthlink.net](#) | [My Profile](#) | [Home](#) | [Web History](#) | [My Account](#) | [Sign out](#)

Google maps 1300 broadway denver [Search Maps](#) [Show search options](#)  
Find businesses, addresses and places of interest. [Learn more.](#)

[Print](#) [Send](#) [Link](#)



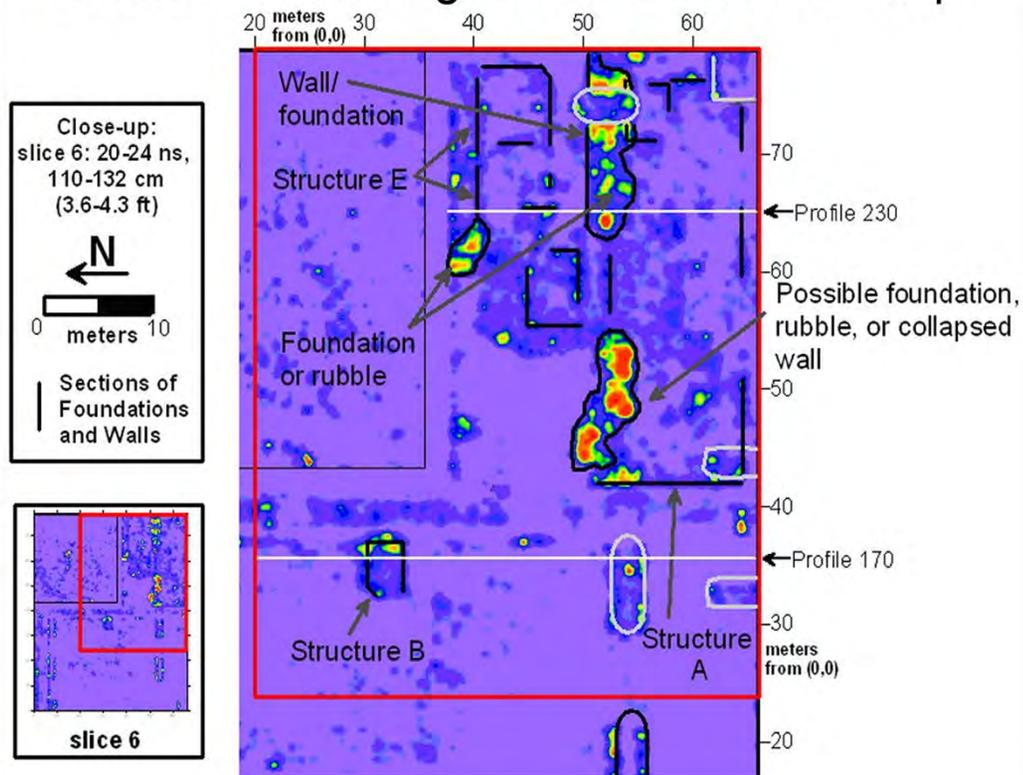


# ARCHAEOLOGY

At the New History Colorado Center



## Ground Penetrating Radar Time Slice Map





# ARCHAEOLOGY

*At the New History Colorado Center*





# ARCHAEOLOGY

*At the New History Colorado Center*





# ARCHAEOLOGY

*At the New History Colorado Center*





# ARCHAEOLOGY

*At the New History Colorado Center*





**ARCHAEOLOGY**

*At the New History Colorado Center*

*Studying the site of the New History Museum gives us a glimpse of life and industry in Denver from the 1890's to 1950's.*

# Dealing with unmarked graves is an important duty of the State Archaeologist

Colorado Statutes - C.R.S. 24-80-1301-1305:

Title 24 Government - State:

State History, Archives, and Emblems:

Article 80 State History, Archives, and Emblems:

Part 13--

## UNMARKED HUMAN GRAVES

24-80-1301. Definitions.

24-80-1302. Discovery of human remains.

24-80-1303. Discovery of human remains during an anthropological investigation.

24-80-1304. Rule-making authority - state archaeologist.

24-80-1305. Violation and penalty.

### 24-80-1301. Definitions.

As used in this part 13, unless the context otherwise requires:

- (1) "Commission" means the commission of Indian affairs.
- (2) "Disturb" means to move, open, expose, dig up, disinter, excavate, remove, carry away, damage, injure, deface, desecrate, loot, vandalize, mutilate, or destroy.
- (3) "Human remains" means any part of the body of a deceased human being in any stage of decomposition.
- (4) "Land" means all lands, including submerged lands, located within the state of Colorado which are owned by the state or its political subdivisions, agencies, or instrumentalities or by any private person.
- (5) "Person" means an individual, limited liability company, corporation, unincorporated association, partnership, proprietorship, or governmental entity.
- (6) "Unmarked human burial" means any interment of human remains for which there exists no grave marker or any other historical documentation providing information as to the identity of the deceased.

# County coroners have important duties, but limited requirements.

State law encourages, but does not require, candidates for the office of coroner to possess knowledge and experience in the medical-legal investigation of death. Coroners are also encouraged by state law to participate in programs that provide education and training. Training is available through a variety of local and national resources, including a program to become a certified death investigator through the Colorado Coroners Association.

Indian Tribes are very concerned that the bones of their ancestors are moved out of the path of destruction and reburied properly.

Reburial crew at undisclosed, secure location in 2009

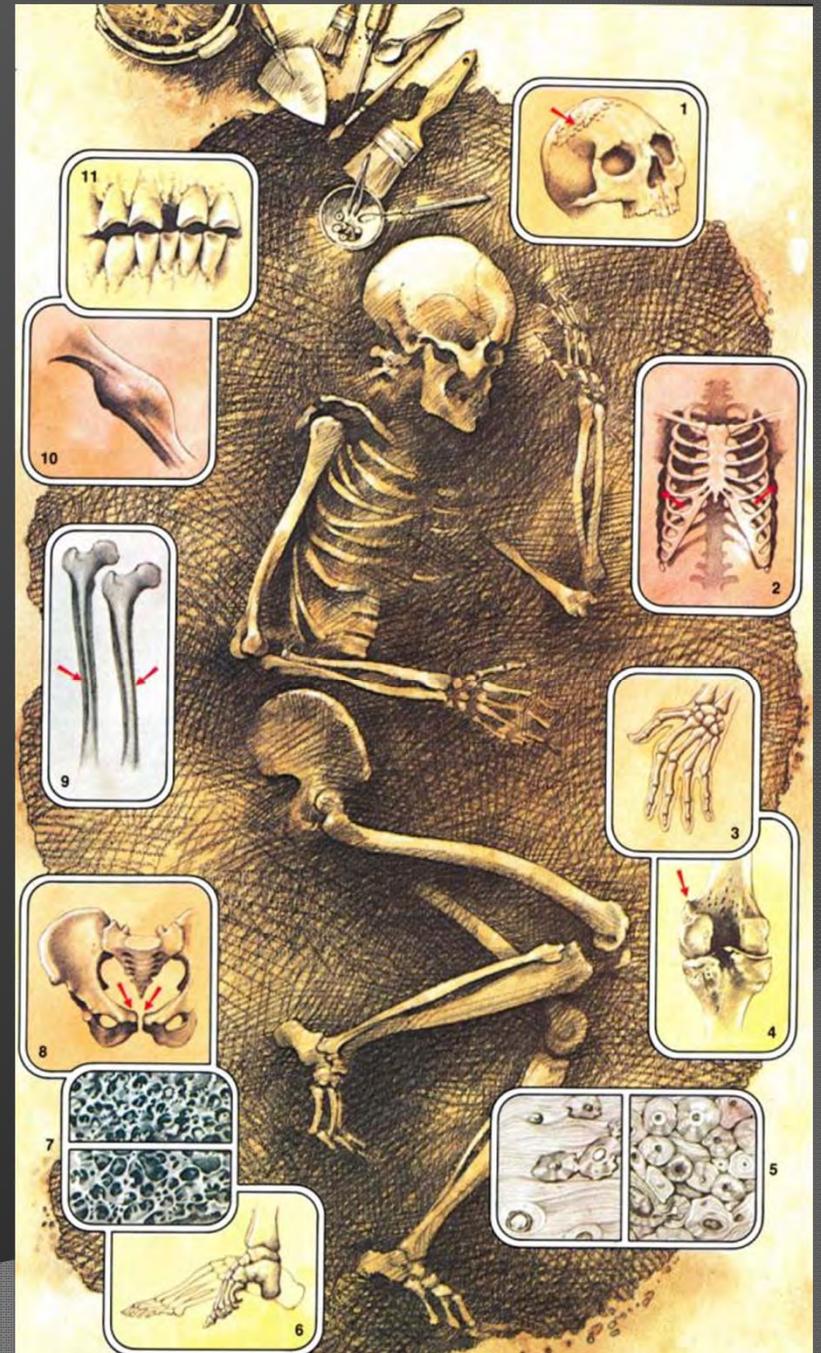


So what can the State Archaeologist do to mitigate the challenges associated with the discovery of unmarked graves? How can he serve as a bridge between coroners or law enforcement (who are the first to deal with discoveries) and American Indians (who have historic concerns)?

# FORENSIC ARCHAEOLOGY

Thomas Carr, MA  
Staff Archaeologist  
History Colorado

Catherine Gaither, Ph.D.  
Associate Professor of Anthropology  
Metro State College of Denver



# Major Topics

- ◎ Discovery
  - Identifying bone
  - Taphonomy
  - Estimation of Antiquity
  - Legal Considerations
- ◎ Burial Contexts
  - Environmental Settings
  - Types of Burials and Associated Artifacts
    - Interactive exercises included
- ◎ Recovery Practices
  - Area survey
  - Establishing a grid
  - Excavation / bone and artifact handling
- ◎ Skeletal Analyses
  - Comparative Anatomy, animal versus human
    - Interactive exercises included
  - Estimations of age, sex, and ancestry
    - Interactive exercises included

# Discovery

- Identifying the bone
- Taphonomy
- Estimation of antiquity
- Legal considerations

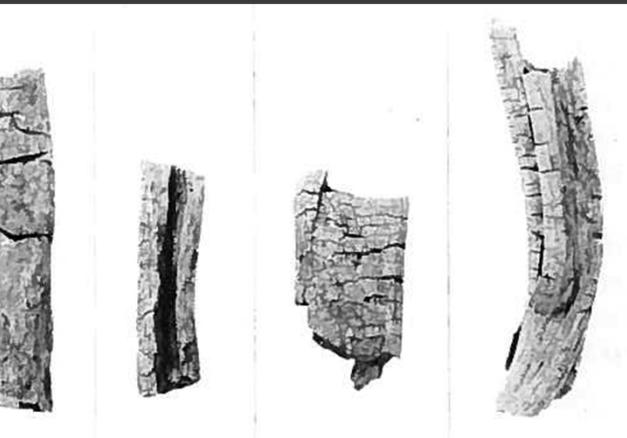


# Identifying Bone

Lots of things can look like bone fragments. Ceramic sherds, plastic, wood fragments, rocks, small bits of concrete can all be mistaken for bones or bone fragments.



# aphonomy



- Have the remains been disturbed or exposed?
- Are the bones weathered?
- A grave can be easily disturbed by animals or erosion.
- Remains can be scattered over 100 yards.

# Estimations of Antiquity



Even recent remains can become skeletal relatively quickly once exposed and they may resemble ancient skeletal remains.



Conversely, well preserved ancient remains can appear to be modern and mistaken for contemporary criminal cases.

# Laws and Guidelines

## Primary Federal Laws

- 1906 American Antiquities Act
- 1966 National Historic Preservation Act
- 1969 National Environmental Policy Act
- 1974 Archaeology and Historic Preservation Act
- 1979 Archaeological Resources Protection Act
- 1990 Native American Graves Protection and Repatriation Act – 2011 new rules for CUI remains

## Primary State Laws

- 1915 Colorado Historical Society Act
- 1953 Historical Monuments Act
- 1973 Historical, Prehistorical, and Archaeological Resources Act
- 1990 Unmarked Human Burial Amendment to 1973 Act
- 2008 State Process for Culturally Unidentifiable Human Remains

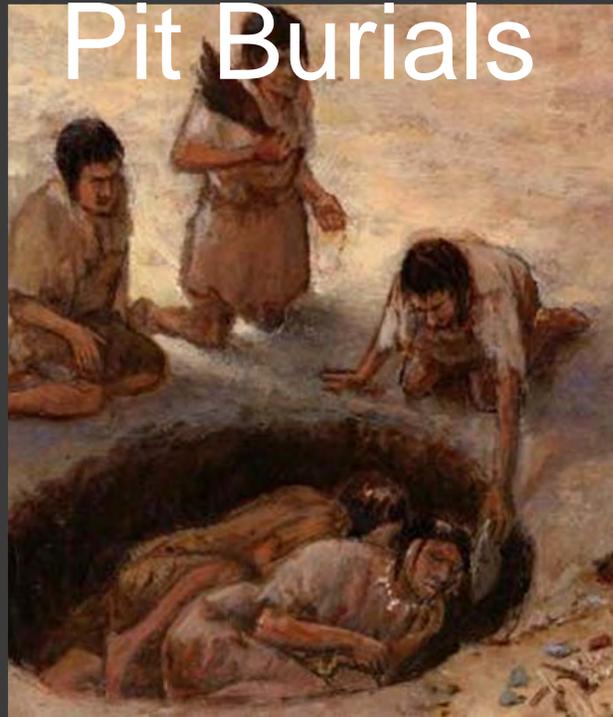
# Types of Unmarked Burial Contexts:

## Crevice Burials



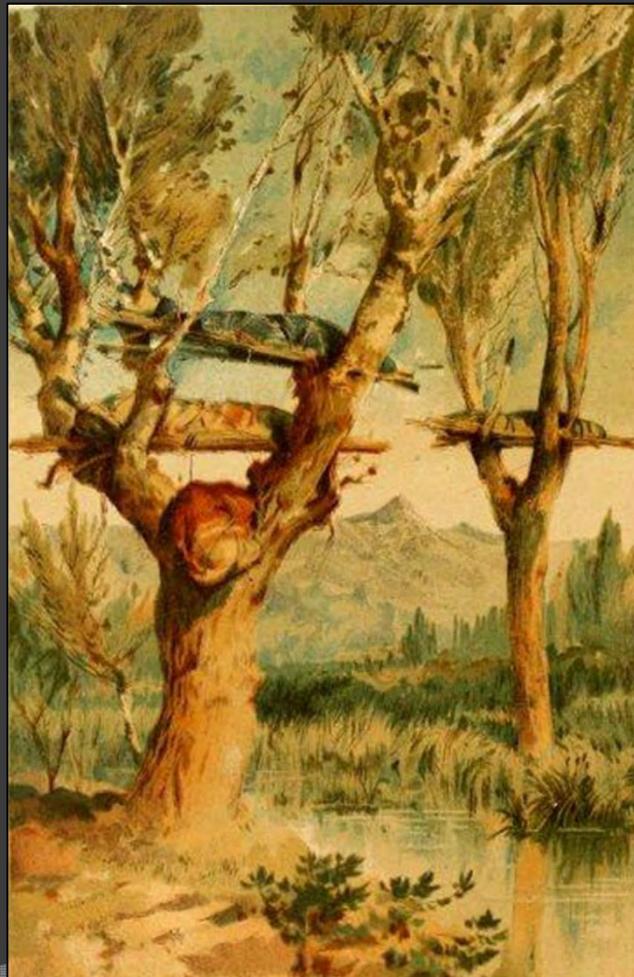
Sometimes bundle  
burials are placed into  
caves or crevices.

## Pit Burials



These are well defined pits  
with distinctive soil color  
changes and articulated

# Platform (and Bundle) Burials



remations



# Unmarked Historic Period Burials



# Associated Artifacts



Likely Prehistoric



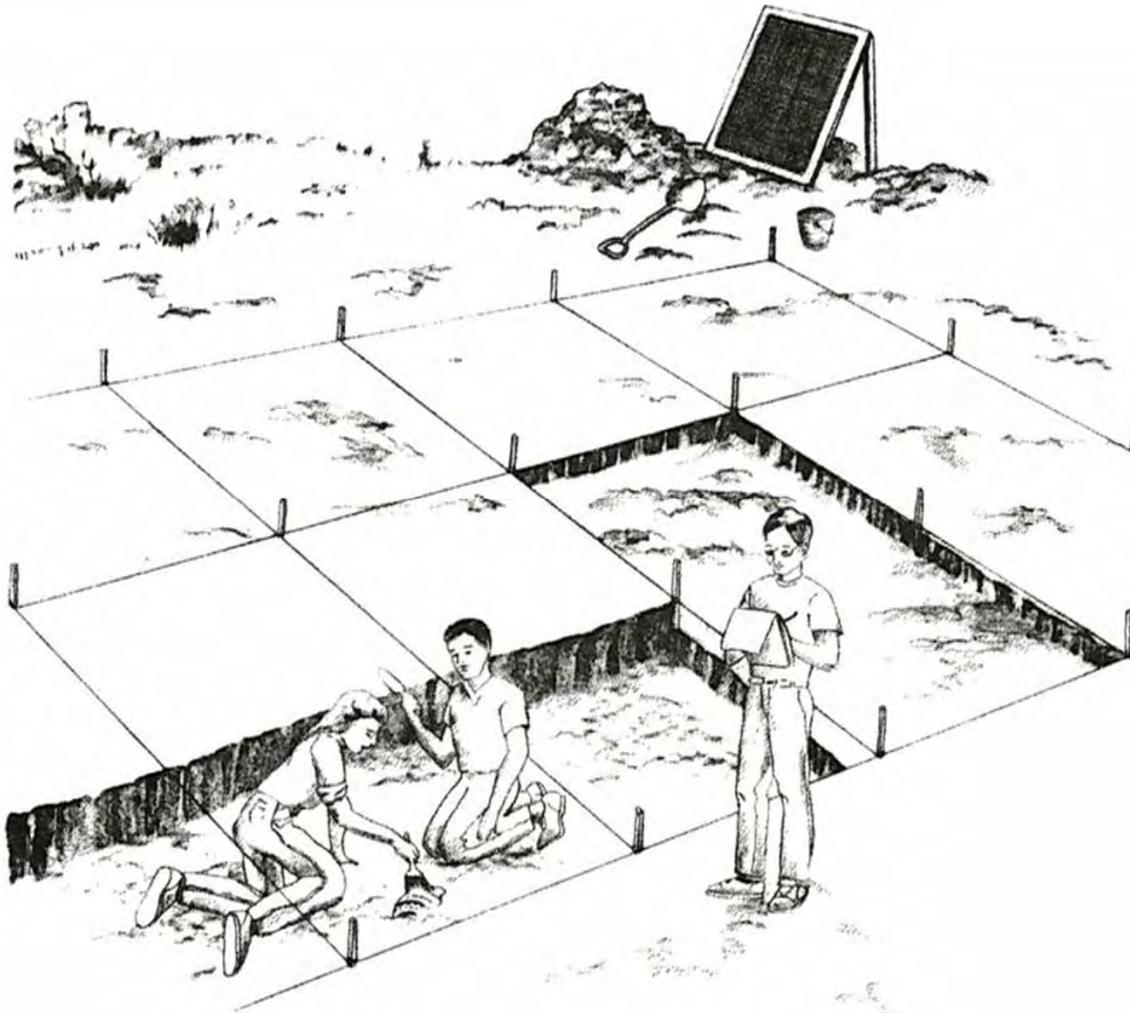
Historic

# Recovery Practices

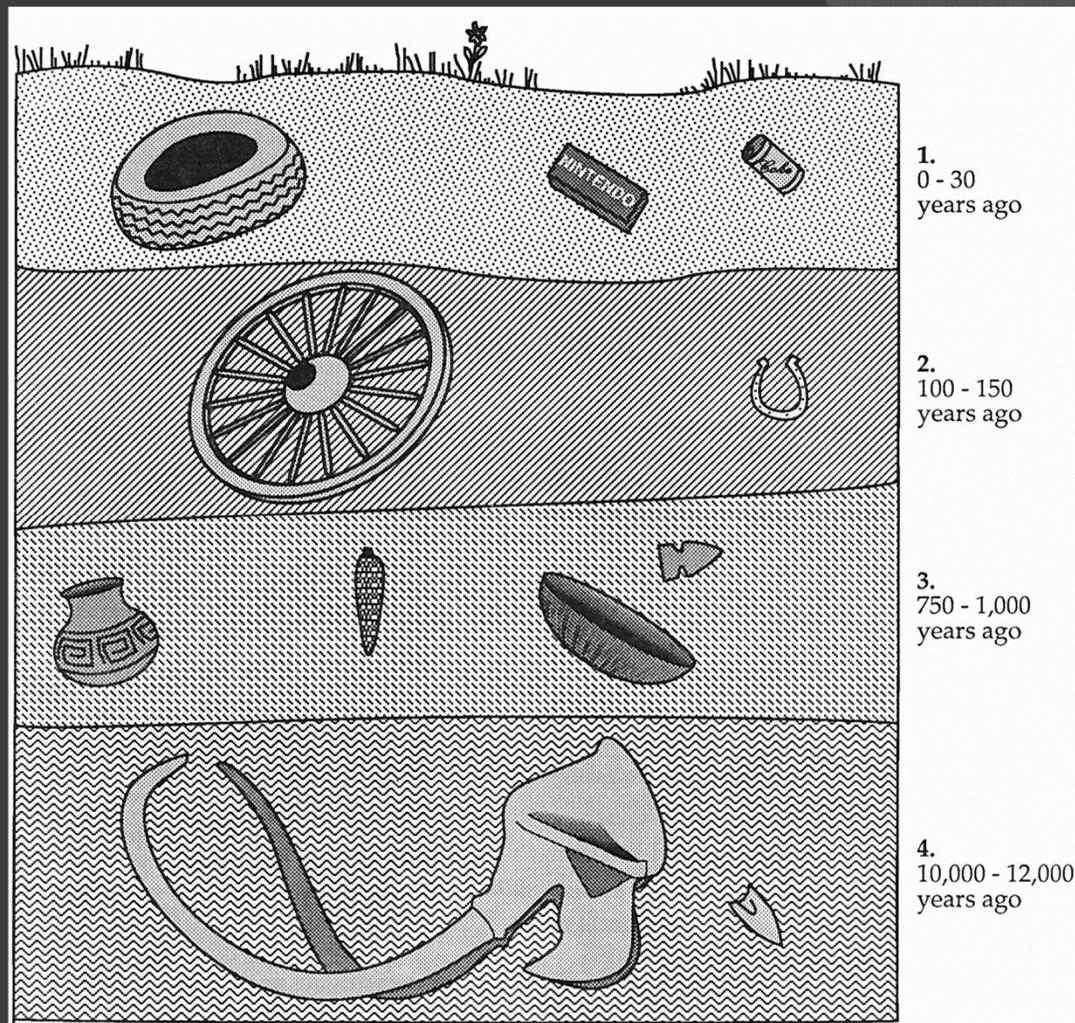
- Establishing a grid
- Excavation procedure
- Bone and artifact handling



# Establishing a Grid



# Excavation procedures



# Skeletal Analyses

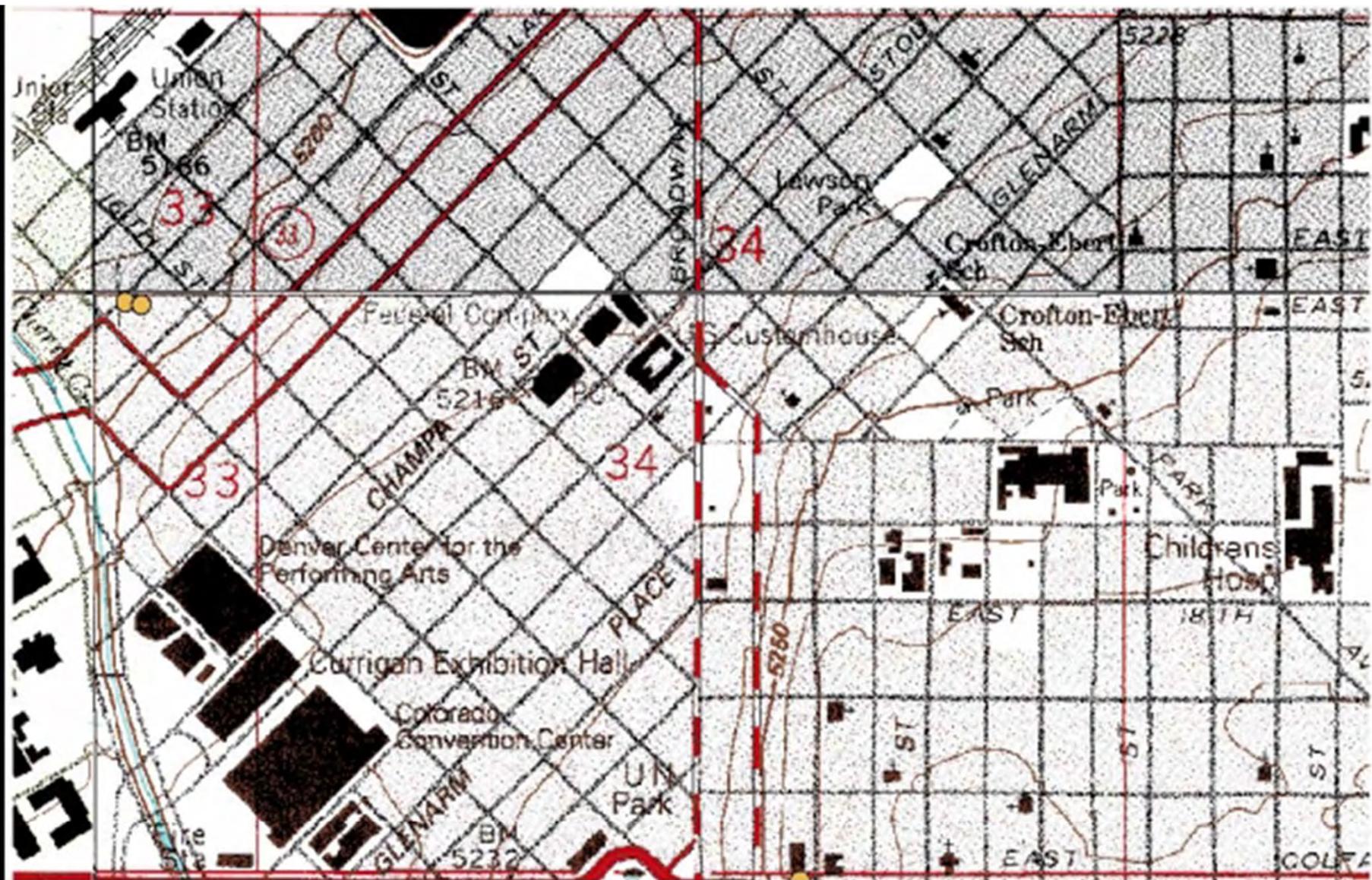
- Comparative anatomy: animal versus human
  - Interactive exercises offered
- Estimations of age, sex, and ancestry
  - Interactive exercises offered



# **Location, Location, Location...**

The Office of Archaeology and Historic Preservation is obligated to record and maintain the site records for historic properties in the state. There are now over 200,000 sites, which include both historic buildings and prehistoric sites.

Our office maintains both a detailed database and GIS records of the site information we receive from agencies or contractors.



Construction Dates

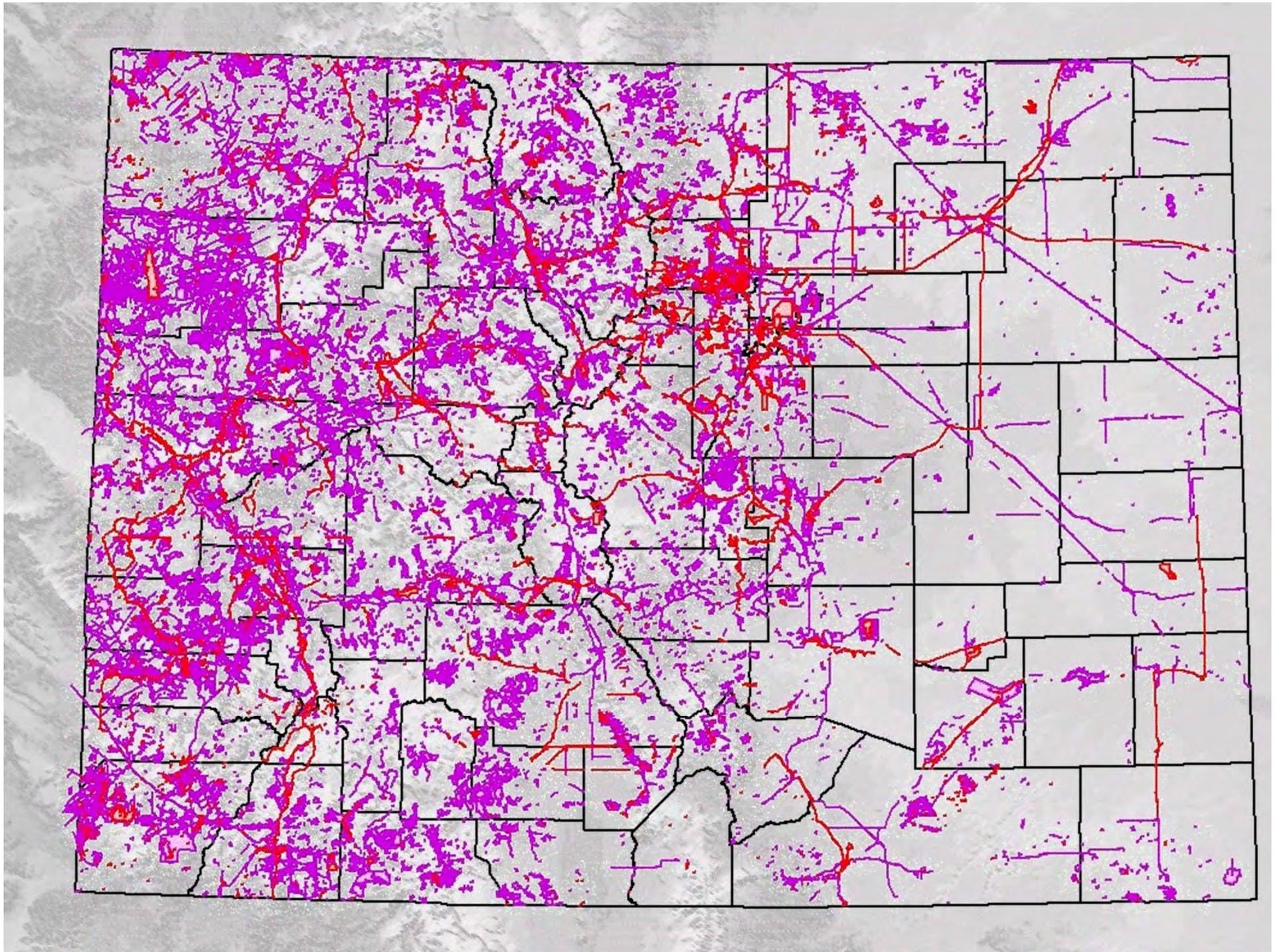




5DV39 (Denver Turnverein Site)

# **Geographic Information Systems**

- **GIS is a computer based tool for mapping and analyzing places and events related to the topic of interest.**
- **GIS integrates common database operations such as searching, reporting and statistical analysis with the unique visualization and geographic analysis offered by maps.**



# COMPASS

- 44 fields
- 15 searchable
- Focused on site information
- Simplified and queriable data extracted from the Sites database
- Links to images

COLORADO HISTORICAL SOCIETY  
OFFICE OF ARCHAEOLOGY & HISTORIC PRESERVATION

[Welcome](#) | [What's New](#) | [How Do I...?](#) | [Program Areas](#) | [SHF Grants](#) | [PAAC](#) | [Forms](#) | [Publications](#) | [State Plan](#) | [Online Guides](#) | [Jobs](#) | [Links](#) | [Credits](#) | [Search](#) | [CHS Home](#) |

Welcome to Compass  
Colorado's On-line Cultural Resource Database



Registered Users:

Login ID:

Password:

Questions or Problems:  
Please contact Compass at [compass@chs.state.co.us](mailto:compass@chs.state.co.us)

Developed by:  
**Systems Engineering Services Corp.**  
5299 DTC Boulevard, Suite 420  
Greenwood Village, CO 80111  
303-290-8288  
[www.sest.com](http://www.sest.com)

## Architectural Search Request

Due to the sensitive nature of some of our historic resources, not all properties will appear when performing a search under architecture. If you feel that you are not receiving all relevant information, please feel free to call the Office of Archaeology and Historic Preservation at (303) 866-4673 for further assistance. [Further Information](#)

Run Search

Search Instructions

Clear all Criteria

Display  records at a time

Sort By

Site ID:  (format: 5AD.115)

Site Name:

Sites Only:  (drop Isolated Finds)

Assessment:

Condition:

### Architecture

Site Type, Original Use, or Present Use:

Early Date:  to  (Format: YYYY)

Late Date:  to  (Format: YYYY)

Architect ID:  To filter on an architect enter the [architect's ID Number](#).

Features:

Style:

### Location Information

Street Address Number:

Street:

City, County:  ,

Map ID:  To filter on Map enter the Map's ID in this field.

[Click here to view a List of Map IDs.](#)

Colorado Historical Society - Office of Archaeology and Historic Preservation  
Compass: Colorado's On-line Cultural Resource Database

[Read Me!](#) | [Credits](#) | [Logoff](#) |  
[Searches](#) | [Prehistoric Archaeology](#) | [Historical Archaeology](#) | [Architectural](#) | [Paleontological](#) | [All Sites](#) |  
[Registered User](#) | [Reports](#) | [Login Tracking](#) | [Site Tracking](#) |  
[Archaeological](#) | [Artifact](#) | [Feature](#) | [Architectural](#) | [Architect](#) | [Style](#) |

## Architectural Search Result

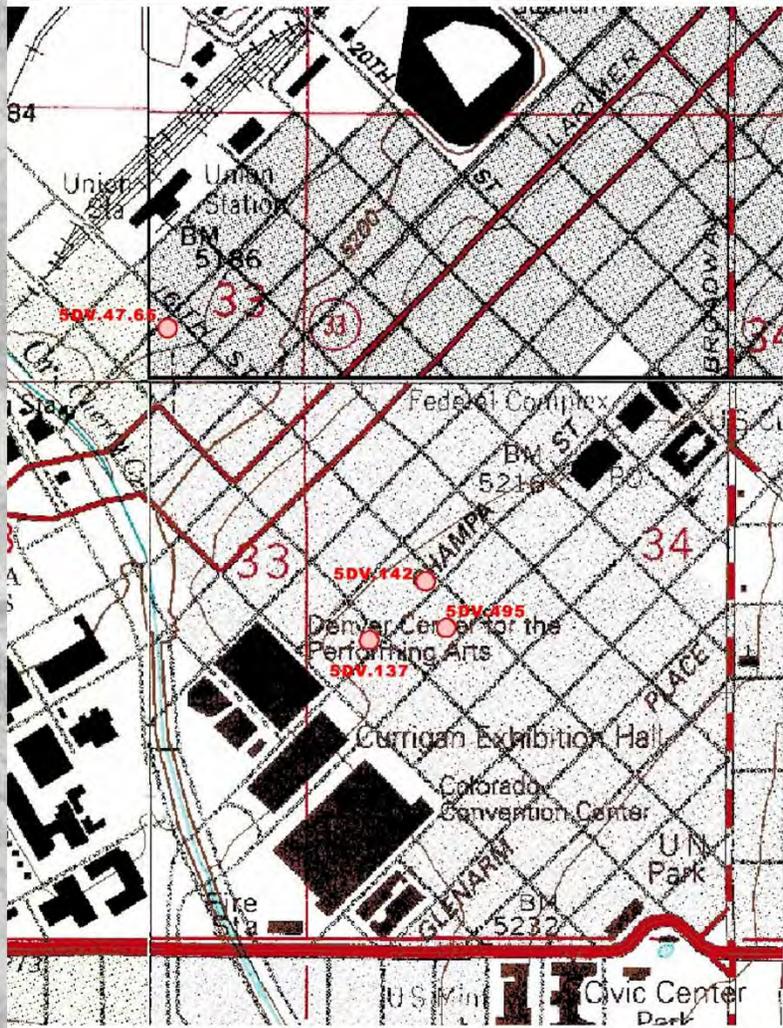


Filters: Architectural Search  
County contains 'Denver'  
Architecture Style contains 'Sullivan-esque'

Records 1-4 displayed out of 4 total matches

as of 02/05/2007 13:00:20

	Photos Images	Site ID	Site Name Assessment
<a href="#">View</a>		5DV.47.65	SUGAR BUILDING LISTED - NATIONAL REGISTER...
<a href="#">View</a>		5DV.137	PUBLIC SERVICE BUILDING~INSURANCE EXCHAN... LISTED - NATIONAL REGISTER...
<a href="#">View</a>		5DV.142	A.C. FOSTER BUILDING~UNIVERSITY BUILDING LISTED - NATIONAL REGISTER...
<a href="#">View</a>		5DV.495	A.T. LEWIS NEW BUILDING~RIO GRANDE BUILDING LISTED - NATIONAL REGISTER...



### Architectural Site Detail

**Site ID:** SDV 137  
**Name:** PUBLIC SERVICE BUILDING-INSURANCE EXCHANGE BUILDING-GAS & ELECTRIC BUILDING

**\*\*\* Street Address(s) \*\*\***  
**Number:** 910  
**Street:** 15TH ST  
**City:** DENVER  
**Country:** Denver

**Resource Type:** Historic

Assessment		Recorder	
Date	Description	Date	Description
07/20/1978	Listed - National Register	01/10/1977	Historic Denver, Inc.
12/16/2004	Multiple Resource Component		
	Local Landmark		

Condition		Images	
Date	Description	Notice of Additional Information	
01/10/1977	Excellent/Undisturbed	<a href="#">View</a>	001 Notice
		<a href="#">View</a>	001 Additional Information
		<a href="#">View</a>	002 Site Form
		<a href="#">View More Images</a>	

Absolute Date		Related Sites	
Method	Comments	No Related Sites	

**\*\*\* Documents(s) \*\*\***  
**ID:** DV PA R29  
**Title:** ARCHITECTURAL AND HISTORICAL SURVEY OF DOWNTOWN DENVER  
**Author:** NORGREN, BARBARA AND RON EMRICH  
**Date:** 01/01/1984  
**Contractor:** PRESERVATION CONSULTANTS FOR THE PRESERVATION ALLIANCE

**ID:** DV LG R22  
**Title:** B-5 ZONE HISTORIC BUILDINGS SURVEY, DENVER, COLORADO  
**Author:** SIMMONS, R. LAURIE AND THOMAS H. SIMMONS  
**Date:** 08/01/1993  
**Contractor:** FRONT RANGE RESEARCH ASSOCIATES, INC FOR THE DENVER LANDMARK PRESERVATION COMMISSION

**ID:** DV SHE R33  
**Title:** DENVER GAS & ELECTRIC BUILDING, DENVER (SHF 1995-M3-025)  
**Author:** UNSPECIFIED  
**Date:** 01/01/1996  
**Contractor:** AMERICAN INSTITUTE OF ARCHITECTS, DENVER CHAPTER

**ID:** DV SHE R119  
**Title:** DOWNTOWN DENVER HISTORIC DISTRICT- DENVER LANDMARK DESIGNATION APPLICATION (SHF 1999-M2-048)  
**Author:** SIMMONS, R. LAURIE & THOMAS H. SIMMONS  
**Date:** 09/12/2000  
**Contractor:** FRONT RANGE RESEARCH ASSOCIATES FOR HISTORIC DENVER, INC

**ID:** XX MPS 37 [View Document Images](#)  
**Title:** Historic Resources of Downtown Denver  
**Author:** R. Laurie Simmons and Thomas H. Simmons  
**Date:** 05/30/2004  
**Contractor:** Front Range Research Associates

**\*\*\* ARCHITECTURE \*\*\***  
**Original Use:** COMMERCE/TRADE  
**Present Use:** COMMERCE/TRADE  
**Early Date:** 1910  
**Late Date:** 1910  
**Architect:** EDBROOKE, FRANK E.  
**Feature:** RECTANGULAR PLAN, FLAT ROOF, 10 STORIES, TERRA COTTA, BRICK  
**Style:** SULLIVANESQUE

**\*\*\* ARCHAEOLOGICAL DATA \*\*\***

Site Type		Culture	
Features(s)	Description	Artifact(s)	Description

**\*\*\* LOCATION INFORMATION \*\*\***

Map	Principal Meridian	Township	Range	Section	Quarters	UTM	
ENGLEWOOD	6TH	3S	68W	34	NW SW	Zone:Easting	Northing
						13 5 00 420mE	43 99 320mN



UNITED STATES DEPARTMENT OF THE INTERIOR  
 NATIONAL PARK SERVICE

FOR NPS USE ONLY  
 RECEIVED - DRAFT -  
 DATE ENTERED:

**NATIONAL REGISTER OF HISTORIC PLACES  
 INVENTORY - NOMINATION FORM**

SEE INSTRUCTIONS IN HOW TO COMPLETE NATIONAL REGISTER FORMS  
 TYPE ALL ENTRIES - COMPLETE APPLICABLE SECTIONS

**1. NAME**  
 HISTORIC: Public Service Building  
 ALTERNATE(S): Insurance Exchange Building

**2. LOCATION**  
 STREET & NUMBER: 910 15th Street  
 CITY/TOWN: Denver  
 STATE: Colorado  
 COUNTY: Denver

**3. CLASSIFICATION**

CATEGORY	OWNERSHIP	STATUS	PRESENT USE
<input checked="" type="checkbox"/> DISTRICT	<input checked="" type="checkbox"/> PRIVATE	<input checked="" type="checkbox"/> OCCUPIED	<input type="checkbox"/> AGRICULTURE
<input type="checkbox"/> STRUCTURE	<input type="checkbox"/> PUBLIC ACQUISITION	<input type="checkbox"/> UNOCCUPIED	<input type="checkbox"/> COMMERCIAL
<input type="checkbox"/> OBJECT	<input type="checkbox"/> IN PROCESS	<input type="checkbox"/> ACCESSIBLE	<input type="checkbox"/> PARK
	<input type="checkbox"/> BEING CONSIDERED	<input type="checkbox"/> NOT RESTRICTED	<input type="checkbox"/> FEDERAL RESERVE
		<input type="checkbox"/> NO	<input type="checkbox"/> RESIDENTIAL
			<input type="checkbox"/> GOVERNMENT
			<input type="checkbox"/> SCIENTIFIC
			<input type="checkbox"/> INDUSTRIAL
			<input type="checkbox"/> TRANSPORTATION
			<input type="checkbox"/> MILITARY
			<input type="checkbox"/> OTHER

**4. OWNER OF PROPERTY**  
 NAME: Insurance Exchange Company (Raymond S. Partner - Marvin M. Popper)  
 STREET & NUMBER: 910 15th Street  
 CITY/TOWN: Denver  
 STATE: Colorado

**5. LOCATION OF LEGAL DESCRIPTION**  
 COUNTY/CORNER: Clerk and Recorder Office-City and County Building  
 STREET & NUMBER: 13th and Bannock Streets  
 CITY/TOWN: Denver  
 STATE: Colorado

**6. REPRESENTATION IN EXISTING SURVEYS**  
 FILE: Colorado Inventory of Historic Sites/Denver Inventory  
 SURVEY: 1973  
 DEPOSITORY FOR SURVEY RECORDS: The State Historical Society of Colorado  
 CITY/TOWN: Denver  
 STATE: Colorado



File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss

Address: http://www.blm.gov/ah/heritage/online/heritage/online.asp

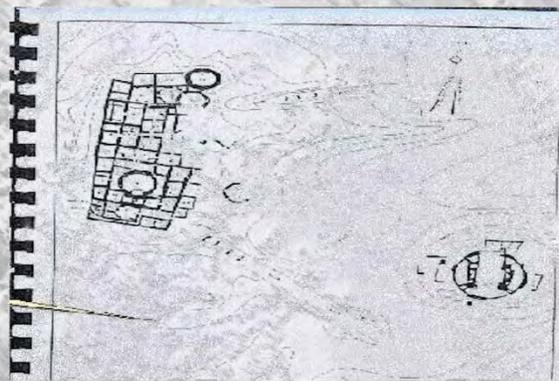
Monday, September 15, 2003

**COLORADO HERITAGE INFORMATION PRESERVATION PROGRAM ON-LINE**

**Map Layers**

- Sites
- Inventories
- 7.5 minute quads
- 15 minute quads
- 1:100K quadrangles
- TRS grid
- Counties
- Hydrologic units
- 7.5m DRGs
- 1:100K DRGs
- Shaded relief

Map: 15628 35, 3313123 68 - Image: 159, 413 - ScaleFactor: 2070,7966240935393



### All Sites Site Detail

Search List < >

Site ID: 5MT1566  
Name: LOWRY RUIN-LOWRY PUEBLO

\*\*\* Street Address(s) \*\*\*  
City: CORTEZ VICINITY  
County: Montezuma

Resource Type: Archaeological

Date	Assessment	Description	Date	Recorder	Description
10/15/1966	Listed - National Register		11/03/1998	BLM San Juan Field Office	
07/19/1964	National Historic Landmark		08/01/1967		

Date	Condition	Description	Images
08/27/2002	Tested		View 001
11/03/1998	Good	Light Disturbance	View 001
11/03/1998	Fair	Moderate Disturbance	View 002
11/03/1998	Collected		View 003
11/03/1998	Vandalized		View 004
	Excavated		View 005
1992	Dendrochronological Date Available		View 006
1983	Stabilized		View 007
			View 008
			View 009
			View 010

View More Images...

Absolute Date	Method	Comments
Dendrochronological Date Available	TREE RING DATES	VERIFY EARLIEST BUILDING ACTIVITY BEGAN IN AD 1090 FOR A PERIOD OF 30 YEARS SEE MT L M R131 PAGE 4 FOR REFERENCE

Related Sites
View 5MT 1554
View 5MT 12208

\*\*\* Document(s) \*\*\*

ID: MT L M E3  
Title: STABILIZATION ESCALANTE AND LOWRY RUINS (1980)  
Author: DOSH, STEVEN G. AND DONALD E. WEAVER  
Date: 10/01/1980  
Contractor: MUSEUM OF NORTHERN ARIZONA (FLAGSTAFF)

\*\*\* ARCHITECTURE \*\*\*

\*\*\* ARCHAEOLOGICAL DATA \*\*\*

Site Type	Culture
OPEN ARCHITECTURAL	NATIVE AMERICAN-UNSPECIFIED

Feature(s)	Artifact(s)
1 ROOM BLOCK/PUEBLO	
1 KIVA	

\*\*\* LOCATION INFORMATION \*\*\*

Map	Principal Meridian	Township	Range	Section	Quarters	UTM	
RUIN CANYON	NM	38N	19W	2	SE SW NW NW SW SE NW NW NE NW SW NW NW NE SW NE	Zone: Easting	Northing
						12 6 83 770mE	41 61 550mN

**The diversity of site types in Colorado is striking.**



2154  
le's Nest  
Mountain  
Tribal Park

**Sites can date to more than  
10,000 years ago.**



**Bison bone bed**



**Jones-Miller site (5YM8, near**



**5MN5 Shavano Valley Rock Art Site, near Montrose**





**Some sites  
have long  
and complex  
stories.**

**LA1057 Trinchera  
cave, near Trinidad**





**5LA1247 Snake Blakeslee, near La Junta**





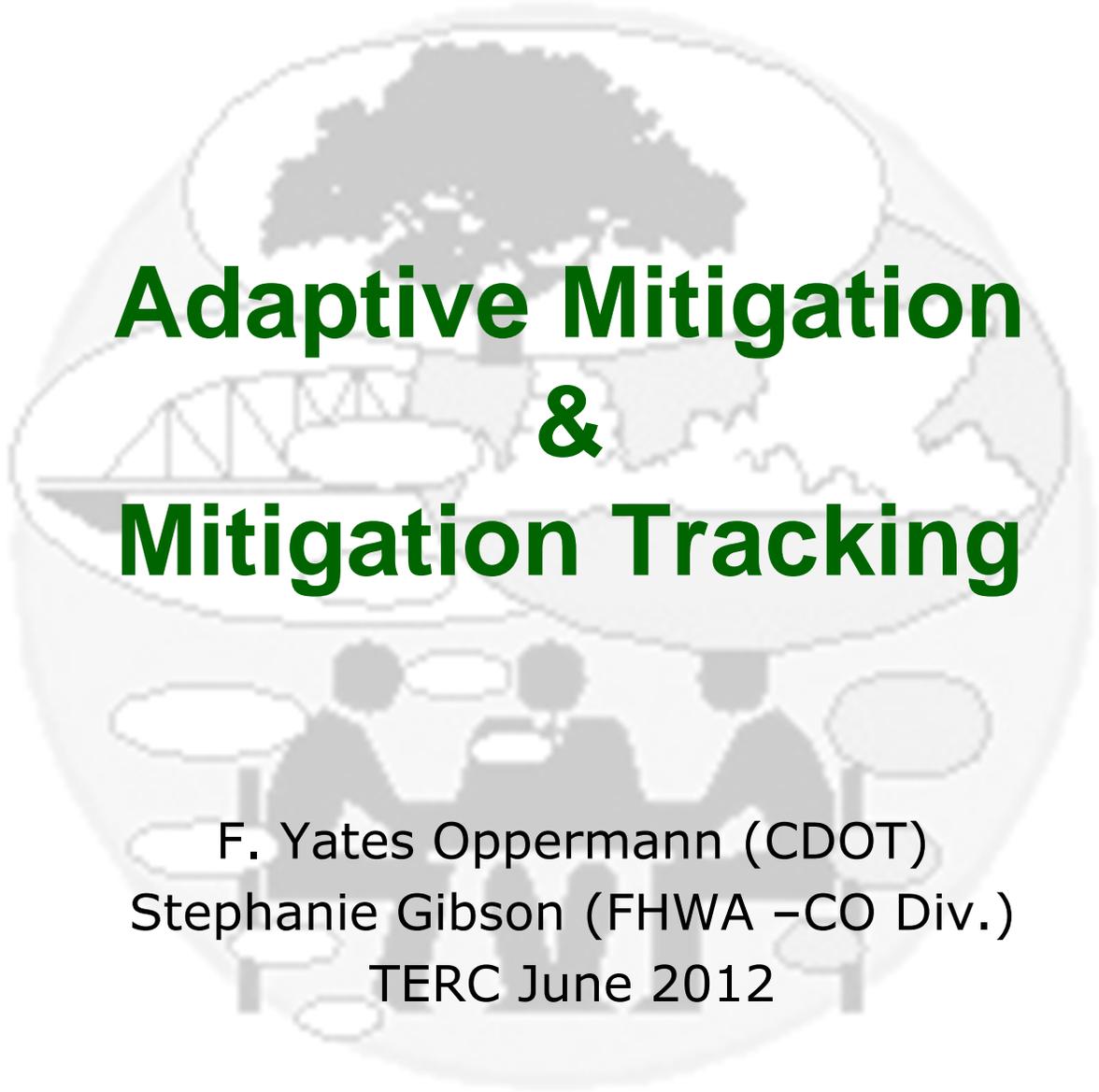
**Wickiup in Saguache County**

**We forget that cities such as Denver have buried histories.**



**54 Tremont House Historic  
Geology Excavations, Denver**





# Adaptive Mitigation & Mitigation Tracking

F. Yates Oppermann (CDOT)  
Stephanie Gibson (FHWA –CO Div.)  
TERC June 2012



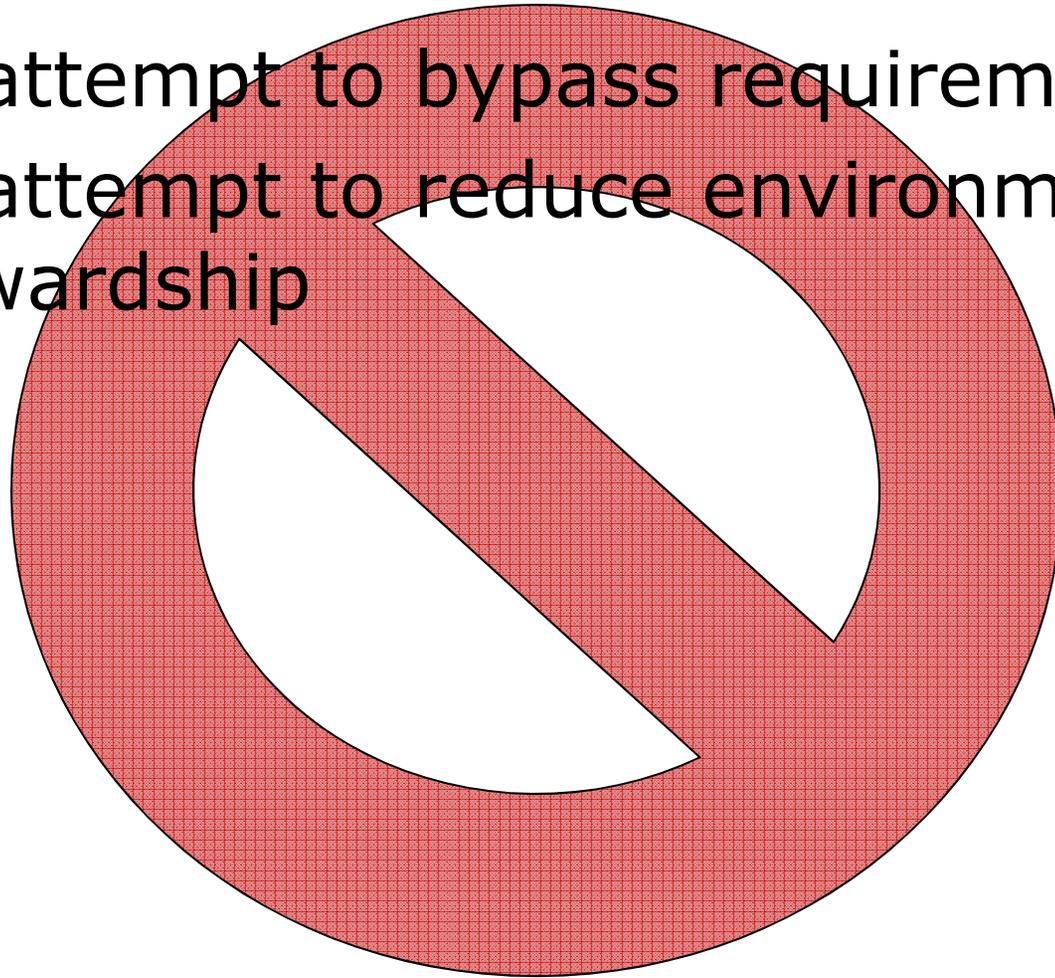
## What it is

- A change in how mitigation is
  - Identified,
  - Approved, and
  - Managed
- A means of better communicating how and where actions negatively affect the environment and what we do to try and control negative impacts



## What it **isn't**

- An attempt to bypass requirements
- An attempt to reduce environmental stewardship





# Format

- Mitigation is described in four parts
  - Action that creates a concern
  - Location where impacts are a concern
  - Impact to the resource
  - Mitigation that must be completed

Action	Location	Impact	Mitigation



Action	Location	Impact	Mitigation

- Specific CDOT activity/design element
- Either occurs or does not (yes/no)
- May consist of multiple components or multiple actions



Action	Location	Impact	Mitigation

 Physical and/or temporal location where an activity creates an impact  
May be defined by:

-  Physical feature (ex. riparian areas, mile marker)
-  Political Boundary
-  Time of day/night/year



Action	Location	Impact	Mitigation

 The impact to the resource that occurs if a particular activity does occur at a particular location

 Examples:

-  Loss of wetland function
-  Degradation of a migratory corridor
-  Loss of historic resource integrity
-  Increased noise above action levels



Action	Location	Impact	Mitigation

- Additional actions which must be taken if the activity takes place in the location.
- May be either a standard to be achieved or action to be completed
- May consist of multiple components or provide options for mitigation



# NEPA Mitigation Commitment

-  If the activities identified occur in the locations identified, then the mitigation must be completed.
-  If the activities are outside of the locations or activities not identified occur in the location, mitigation does not apply.



## Benefit to Other Agencies

---

-  Clearer connection between activities and mitigation
-  Clearer communication as to when mitigation will be implemented

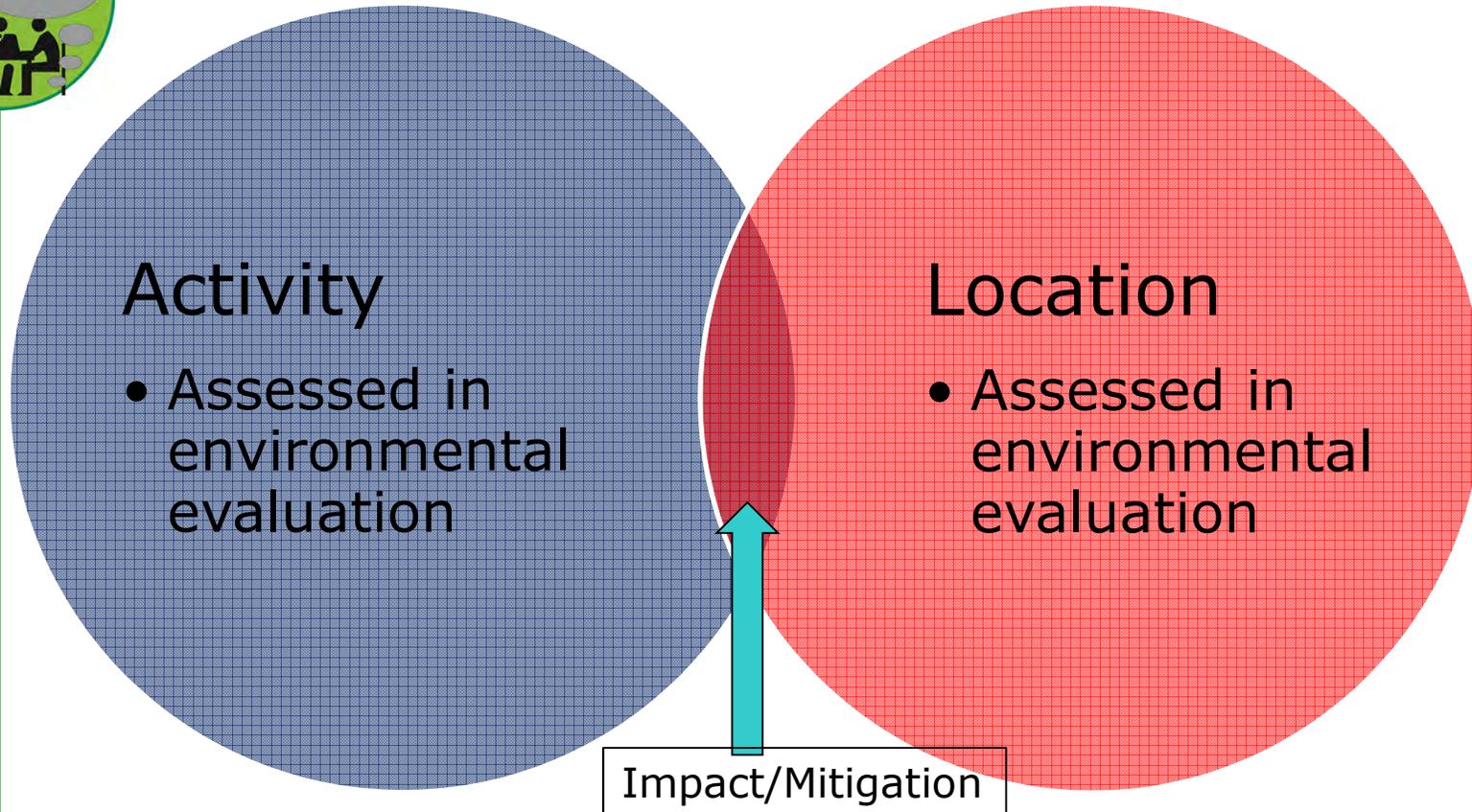


## Examples (wildlife)

Action	Location	Impact	Mitigation
Placement of temporary erosion control blankets for erosion control.	Twin Tunnels Project Area (where BMPs will control erosion adjacent to Clear Creek)	Potential snake mortality from entanglement in plastic mesh deployed for erosion control.	Erosion control blankets will have flexible natural fibers to allow for safe passage of snakes through the erosion control blanket.
Construction related disturbance between April 1 and August 31.	Twin Tunnels Project Area in the vicinity of active nests	Potential loss of eggs or young of nesting migratory birds.	If construction is to commence between April 1 and August 31, to avoid impacts to nesting birds in accordance with the MBTA, a qualified biologist will conduct a nest survey prior to construction. If active nests are found, coordination with CPW and USFWS is required to determine an appropriate course of action, which may include, but is not limited to, a delay in construction to avoid the breeding season.



# Visual





# Benefits

- Clarify what triggers requirements for mitigation
- Minimize need for reevaluations where no substantive change to impacts (paperwork reduction)
- Provide better direction on how to revise the design/construction practices to avoid impacts

# Where is CDOT with implementation



## Twin Tunnels Field Test

-  Initial Lesson Learned: more direction needed on how to identify Activities, Locations, and Impacts

## Endangered Species Matrix (SWIFT)

-  Identifying “standard” activities, locations, and mitigation for impacts to federal and state listed species



## Next Steps

-  More field tests
-  Develop guidance and standards



# Commitment Tracking

<b>Mitigation Commitment # Match to Number in Source Document Summary Table</b>	<b>Mitigation Category</b>	<b>Impact from NEPA Document</b>	<b>Commitment From Mitigation Table In Source Document Use Exact Wording from Table in Source Document</b>	<b>Responsible Branch</b>
---	--------------------------------	--	--	-------------------------------

Action, Location, and Mitigation columns



# Questions?