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MEMORANDUM

TO: Researchers of the County Engineer's Records

FROM: Paul Galli, PLS

SUBJECT: Cowlitz County Survey Research

DRAFT

LAST UPDATED: **April 8th, 2020**

The purpose of this document is to detail the many different locations and types of survey and survey related information available in Cowlitz County, specifically related to the County Engineer's Office. This document will focus primarily on roadways in the county, but will also include many other types of general survey related research, in other departments as well. I've done my best to document my understanding of where the records are located. **I understand this is a massive document that rambles and may repeat things in places. My best advice is to scan the headings in the table of contents and otherwise use a standard text search to look for what you need.** If you see anything in this document that I have wrong, that you think I should explain better, or anything that is missing, please let me know. I would especially love it if you could provide additional information that I don't already have. Also, please note that this is a living document, and will be updated as we learn more.

Currently, the best way to find many of the records available in the County Engineer's Office is to show up in person and do research onsite. While there is a willingness to provide records online, which is proceeding as time/staff/budget permits, it is a massive project that will require time to get to a point where it will be as complete as the hard copy record. **If you stop by our office with a new zip drive (50 gig or larger) we can dump everything we currently have scanned onto it (which does include many of our surveys and field notes, which aren't currently available online).**

FYI – I send out the indexes for most of our surveys and field notes to surveyors on an email list occasionally as more is scanned and/or we get our indexes updated. Let me know if you wish to be on this list (if you aren't already). These indexes should also be available (as searchable pdfs) on the Public Works Research website. Let me know if you can't find an index that you need.

Please note that some information cannot be scanned/copied, or has not been at this point, so not everything is available digitally, and may not ever be. Indexes for most collections (including the hardcopies) are available online, and you can view these records in person during normal business hours (as listed on our website). Some collections don't have indexes. We have made available at our website, our road files. We will try to get the surveys and other information on there as we can.

As you probably know, the Office of the County Engineer is an office of public record per RCW 36.80.015 and RCW 36.80.040. The 1895 survey recording law (that was in effect until 1963) also had a retroactive clause for surveys as far back as the County Surveyor had records for at that time. Before that, the 1855 law required that the County Surveyor keep copies of his notes and surveys and pass them along to the next County Surveyor. Even though the laws have changed since then and there is now a mandatory Auditor's Office Recording law, a thorough investigation of the survey research available in the County Engineer's Office is necessary to provide a complete look at the Public Records available for a given area (even off the road). Also, the County Engineer is required by law to allow public access to its files at proper times. However, we will not do research for you, and are not responsible for the thoroughness of your research, though we do wish everyone to be successful and will help as much as possible by sharing our insight and knowledge of the available records. Hopefully, this document will help us get towards that goal.

The Cowlitz County Engineer's Office files contain approximately the same number of surveys as the Auditor's Office does, but they are not the same surveys. Also, most of the County Engineer's Office files are pre-1973, whereas the Auditor's Office surveys only starts in 1973. The Engineer's Office surveys go back to about 1885, and we have roadway Surveyor's Field Notes and Reports that go back even further than that (to about 1855). Many of the previous County Surveyors (later named County Engineer in 1907, then County Road Engineer in 1936) retraced, set, or divided private and public property, as most were PLS/PEs (once the "new" PLS licensing law came out in 1947). Prior to 1947, all state-wide County Engineers were considered competent surveyors under state law, and did survey work, as required (as best I can tell from the public record).

Last thing: Over the last couple of years, I've given presentations for the Lower Columbia Chapter of LSAW and WCCS regarding the records available in the Cowlitz County Engineer's Office. The power point for the latest presentation that I gave in January of 2020 is available on the Public Works Research website. This power point contains photos and descriptions of many of the types of documents found in our records, so hopefully, researchers will be able to understand better what they are looking for.

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Cowlitz County Surveyor/Engineer/Road Engineer's Office

Short History of the Office of the County Surveyor in WA State (now called County Road Engineer):

One of the first projects that I was asked to complete when I started consulting for Cowlitz County in June of 2012 was to figure out where all the research materials for the Cowlitz County Road Engineer's Office were located. In doing this, I ended up having to research the History of the Office of the County Road Engineer as it pertains to state law, since it seemed odd to me that there were so many survey duties associated with it, and I hoped that knowing more about the history would help me find more documents. In doing so, I realized that the key is that it is actually the County Surveyor's Office. At least, it was called that originally in 1855, and for all intents and purposes, functioned that way in this County until the late 1970s, under the direction of "competent"- later licensed, land surveyors.

The original 1855 laws were setup for a County Surveyor, whose main duties were locating and designing roads and bridges in the County for the County Commissioners and the general public (basically, anyone who asked and paid him). In 1895 these duties were clarified further to include mandatory and voluntary map recording and review responsibilities, as well as other survey and engineering functions. In 1907, when the title of the office was changed to "County Engineer", the core duties didn't change (still surveying and engineering), and the County Engineer was required to be a ... "competent civil engineer and surveyor". This requirement wasn't changed until at least 1936, though more likely until either 1947 (when they changed the law so Civil Engineers were no longer allowed to survey), or 1963 (when the legislature made the last major scrubbing of the old Remington Revised Statutes to RCW and took out the requirement that the County Road Engineer review and record surveys in his County). It is my best understanding that the 1936 legislature (and all the County Engineering Offices) still expected the County Road Engineer to be a competent land surveyor, since the 1935 Engineering licensing law said surveying was experience to get an engineering license and allowed Engineers to survey. See "Inventory of the County Archives of Washington" by the WPA. Cowlitz County's was number 8, published in 1942, and contains a history of the office, as they understood it at the time, a digital copy is available here, of the hard copy, which is at the Cowlitz County Museum.

Eventually, as Civil Engineering and Surveying really began to split apart from each other (say several years after World War II and the "new" 1947 surveying and engineering licensing act that eliminated the 1935 language that had allowed for Civil Engineers to survey) the "new" County Road Engineers were able to be mostly engineers, and the surveying duties became delegated to others in their offices (in many, if not most counties). Today, very few County Road Engineers do their own surveying. Some of the state laws still contain language about the County Engineer doing boundary or ROW surveying work (beyond the limited topo work that all engineers in this state can do), though the research suggests that these are just remnants from when County Engineers were required to be competent Land Surveyors (later requiring a license from the state to be "competent"). These days, I would assume that they have the responsibility of

delegating these duties to a WA licensed Land Surveyor (assuming that they aren't licensed PLSs themselves).

Soon after the 1947 licensing act, the department of surveys and maps (today's DNR PLSO) was added to state law (1951), then was funded and the first head of the department started in 1956 (Burton Ingalls). Soon after that (1959) is when the last survey was officially requested by a local surveyor to be recorded in this office (under the old 1895 law). It appears that they continued to take and index private surveys here (in addition to Public surveys which were required to be filed here by state law after 1973 – if not recorded with the auditor) into the late 1990s (we just don't have the correspondence letters).

Finally, in 1963, the old laws (including the 1895 County Surveyor/Engineer Recording Responsibilities) were scrubbed from state law, and modified under the "new" RCW. Until then however, the Office of County Surveyor/Engineer/Road Engineer was the only place in this state that one could actually "Record" a survey map (if they chose to, and assuming they submitted to a review and payment of the recording fees). Also, until that time, the County Surveyor/Engineer/Road Engineer was required by these same laws to record his own surveys in his office (other than temporary surveys, or those for highways and village plats). In our office here, the County Engineer/Surveyor did many such surveys until about 1978 (the vast majority of our County Engineers have been licensed Land Surveyors (after 1935), and they all were, until 1954, when we got our first Civil Engineer only County Engineer). He was the only one though, until 1978, after which, all the County Engineer's in this County have been Civils only.

See "History of Recording Surveys in WA State.pdf" (on the PW Research Website) for backup on how I came to these thoughts. There are links to the prior laws, a 1950 Attorney General's Opinion, references to the 1940's "Inventory of the County Archives of Washington", and other things. If you disagree with me, or have additional evidence to add to the discussion, please let me know. My hope is to get as close to the "truth" as possible, whatever that means.

I would especially appreciate it if someone could tell me why Washington changed the name from County Surveyor to County Engineer in 1907. I've been wondering (I have no real proof for this other than circumstantial) if it was in response to the Benson Syndicate and the Oregon Land Frauds. The trials had been going on for years at that point, and Steven Puter's Book: "Looters of the Public Domain" was published the next year. I'm sure that the County Surveyors in Washington didn't like the association one bit, and probably wanted to distance themselves from that mess. BLM surveyors became "US Transit Men" for the same reason (or so I've been told). Makes me wonder...

County Roadway Dedications “Waivers”:

- 1) Many (if not most) County Roads in Cowlitz County were dedicated via Waiver (usually titled “Waiver of Damages and Consent to Locate Roadway”), wherein the roadway was dedicated and tied to the plans and field notes in the County Engineer’s Office.
- 2) These waivers may be found with a standard chain of title or title search (though many times are not), and many are located in Public works, in the “Road File”, hard copies of which are in the records room (by road number). Digital copies are available online by Road Name. Not all of these waivers were recorded in the Auditor’s Office, so you shouldn’t expect to see those ones on a title report. In my experience, waivers (even if recorded) almost never show up in a title report, due to their age, since most were waived in the late 19th and early to mid 20th century (title companies aren’t typically required to go back that far in their research). Also, some were “filed” in the Auditor’s Office (as opposed to being recorded), which were later (maybe the early 2000s) sent to state archives and/or destroyed and are no longer available at the Auditor (though at one time they were).
 - a. You can now download everything that is in our digital Road Files online. I still recommend reviewing the hardcopy Road File, just in case something didn’t get scanned or indexed correctly into the electronic system. For example, Rose Valley Road ROW data was scanned into the wrong folder, along with several other documents (unrelated to Rose Valley). Due to other, more pressing matters, it will take some time for someone to sort out what needs to go where, before it can be put back in with the Rose Valley Road electronic file, not to mention the many other issues. Also, many documents were created in color, but were only scanned in black and white (they didn’t have a color scanner 10-15 years ago), so are relatively useless when the document says something like “All that property shown in red on the attached sketch”. We are working to correct these deficiencies as we can.
- 3) Public works is amassing a collection of Auditor’s Office Grantee index pages for “to Cowlitz County” in electronic format (jpgs) on the Public works server, which can also be useful in finding these waivers. These are available for download in our office.
- 4) Sometimes Waivers show up in the old Assessor’s Office index books, which are available in the Auditor’s Office (more on these books under Auditor’s Office).
- 5) Look for Waivers and/or petitions in the index inside the old Road Book in the Auditor’s Office (more on this book under Auditor’s Office).
- 6) Prior to about the 19-teens, waivers/easements were not obtained, as having a petition for the road, signed by the owners (or a claim for damages) and documented in the Commissioners Journals in the County Surveyor’s Office was considered the easement to use their property. See Ballard’s 1880 book on Templates for County Road Documents for more information on the process in that era.

Cowlitz County Public Works Field Notes:

- 1) The Department of Public Works has approximately 130 years of field notes in its archives. Many County Roads are detailed in these notes, including thousands of road reference monuments that aren’t recorded anywhere else. Many county properties (and then/now private properties) were surveyed in these notes as well.

- a. Many section, DLC, and property corners were tied, set, or calculated in these field notes.
 - b. Many property corners were set, reset, or referenced in these field notes.
 - c. If you have a found corner that you can't find an origin for, it is possible that it is in the County field notes somewhere.
 - d. Our records also include original GLO field books by Bystrom/Lane for projects that Bystrom contracted to do our in the east portions of the County.
- 2) Hard Copies of most engineering field note books are available in the records room in two large filing cabinets.
 - 3) Digital copies of the field notes – we have scanned in the 1885-2012 field books, which are available as well. If you bring in a zip drive, you can get the entire database.
 - 4) There is a hard copy index of all the field books by Road Name and Road Number on top of the filing cabinets. This index includes non roadway surveys by public works also. An electronic spreadsheet of this index (in Excel format) is available, upon request. It is also available on the Public Works Research page as a pdf.
 - 5) In 1985, these field books were archived on Microfiche and the film sent to State Archives for safe keeping. Occasionally a book has gone missing since then. If the one you are looking for is missing, then you can go to the list of archived books (available on top of the filing cabinets) to see if your book is there. If it is, we can get that data back. Microfiche of previously retrieved books are also on top of the filing cabinet (this may or may not include all of the missing books).
 - 6) Olson Engineering has created a Section, Township and Range index of some of the earlier County Public Works fieldbooks (based on copies they received over the years). They are indexed by North and East lines of the Section, which means that the west line of a section is indexed as the east line of the next section over. You can ask them if you have need. They have been very helpful by giving out pieces of this index for specific projects.
 - 7) Cowlitz County is in the process of creating its own STR index for all of the Public Works Field Books (the index was only by road or project name before 2012). So far, this has consisted of going through the notes and looking for ties to section corner, corner references, etc. This isn't a full STR index of every job the County has done. This is mostly looking for reference ties to property and GLO corners listed in the notes. We've made a quick pass through the entire database at this point (for ones that are listed in the notes). Now we are going back through and trying to figure out where the unlisted ones are located. This will take some time to finish.
 - 8) We have also started to go back through and add information to the index regarding all GLO and property corners as we can find them (the original index appears to have only concerned itself with roadway surveys). We started in 1885 and are working towards the present. Currently, we are in the 1940's. The majority of these unindexed surveys were prior to the 1930s, so the vast majority are probably included now.
 - 9) Coordinate Books: As related to field notes. In the days before modern calculators, Cowlitz County calculated its coordinates in Coordinate Books. These are available on the west-wall shelf (in the research room) and are labeled "60", "40", etc. Most books are indexed by road name. Sometimes the book reference shows up in the field notes. These can be extremely helpful in determining questions regarding previous resolutions.

Not all coordinate books have an index. We have scanned the books and are in the process of electronically indexing them, as the books are very fragile and falling apart.

Things to remember when digging through the Cowlitz County Public Works field books:

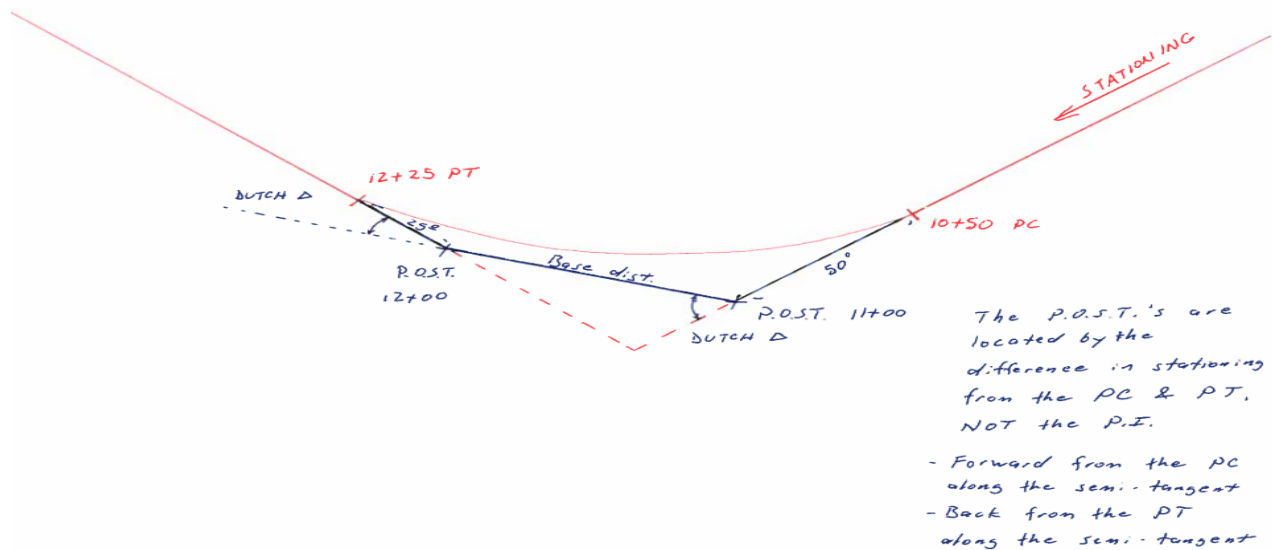
- 1) Many (if not most) of the easements for roadways in Cowlitz County reference the County Road Plans and Field Notes with similar to the following language "...as staked, laid out and available in the Office of The County Engineer". Since County policy was to set monuments for every newly established road alignment, those original monuments are the best indication of where the right of way is located. These monuments are typically not shown anywhere, other than the field notes. Even the County Road Plans (drawn from the field notes) did not normally show set or found monuments.
- 2) Many monuments that were set were not specifically indicated in the field notes. **This means that one needs to search for County set monuments at all PCs, PTs, PIs, and POSTs, as indicated in the field notes.**
 - a. Many times (especially from about 1935 to the mid-1970s), there will sometimes be an indication of a set monument, such as "SET IP". But not always. The county crews typically only did this if they were setting reference monuments to centerline. If they just set centerline monuments, they often wouldn't call those out. They would just show the stations for these positions. They would also say which monuments they didn't set, with a notation similar to "not set". They would also tell you which monuments they set with wood hubs, usually with a "hub" notation, instead of iron pipes. My best information we have is that it was survey department policy to set iron pipes or spikes at all centerline PCs, PTs, and PIs (or just PIs at certain time periods). If they didn't, they would tell you in the notes. If they set RPs at a certain offset, they would tell you. They ALMOST ALWAYS set something though.
 - b. Many times (especially in the 1920s to about 1935), the notes do not indicate that any monuments were specifically set (even though they were). Per the establishment documents, stones were set at the beginning and ending points of the alignment (on centerline, under the surface of the road). During this time, they would usually set iron pipes for the mile markers. Other than the above, the best information we have indicates that they would set wood stakes for the most part (PCs, PTs, PIs, and POSTs). Around 1935, this changed to include iron monuments at PCs, PTs, PIs, and POSTs. Also in the 20s and early 30s, there is one set of handwriting in the notes that is almost unintelligible. It can be very difficult to piece these notes back together, but it can be done. It is extremely helpful to utilize the County Road Plan and/or the coordinate book for the particular road in doing so.
 - c. The County purchased a 1 second theodolite and electronic distance meter in 1975. Soon after, most, then all of their field notes and procedures changed. They went to a radial stakeout method, instead of an alignment occupation stakeout method. This was also the time when they started setting monuments after their initial alignment survey, as opposed to before, when they would set the monuments at the same time (according to past employees and

information found in the notes). This means that very few monuments that were set in the mid-1970s through June of 2012 are indicated in the field notes (because County policy was to not make specific note pages for setting monuments). This is not current policy.

- 3) Prior to 1997 (and especially prior to the mid-1970s) offset monuments set by the County were usually set as reference points to centerline at random offsets, and are not necessarily on the right of way line. I'd guess at least half (or more) were not set on the ROW line. This can cause a lot of confusion if tying these without having the field notes.
- 4) From 1997 until June of 2012, some monuments set by the County (being 5/8" iron rods with yellow plastic caps marked "COWLITZ COUNTY") were actually control points, and do not indicate property corners or alignment reference points. It was County Survey Policy, during this time, to set only one type of monument for control points and survey monuments. This changed during the above timeframe to also include the PLS's license number. That is no longer County Policy. We now set red caps with different markings for control points.
- 5) Road alignments sometimes changed during construction, and were not always updated on the County Road Plan.
 - a. I have found instances where the County Field Notes and the County Road Plans do not match one another. Typically, this is due to an alignment change during construction (apparently, they didn't go back and change the road plan). Another reason to always get the field notes with the road plans. In these cases, it is best to as-built the road and determine which alignment was actually built (map or field notes). I have not yet encountered a situation where the road was significantly different from the map that there wasn't a set of revised field notes somewhere. In the cases I've seen so far (Hazel Dell Road, Garlock Road, etc.), it has been for typical construction revision issues. What was actually built is usually what holds, due to typical waiver/easement language. The found monuments match the improvement as well (at least in the cases I've seen).
- 6) Until the mid-1970s, when field procedures changed, the county road plan and field notes could be read together and followed. After the mid-1970s, the radially set control points are not indicated on the County Road Plan (the County Road Plans stayed the same, even after field procedures changed).
 - a. It can be difficult to follow along with the notes on the County Road Plan for surveys done from about 1975 to 1997. They usually indicated station/offset for points on the alignment that they set, but not for control points.
 - b. It may be necessary to recalculate the entire set of field notes in order to figure out how it all goes together, but it can be done.
 - c. These surveys were plotted on graph paper until about the mid to late 1980s, when they switched to computers. I've done extensive searching around the County (Museum, libraries, County buildings, State Archives, etc.) but have been unable to find the majority of these survey plot maps. All indications are that they were destroyed (thrown away or sent to State Archives, who then threw them away or mis-filed them). I could have also missed them in my searches (I hope so). If anyone has information on these, please let me know.

- d. I have also not been able to find the majority of the electronic files from the mid to late 1980s to 1999. There are several backups, in various formats, during this period, but the vast majority are for engineering files. I have been unable to find any backups of electronic data specific to these survey plot maps. My best guess is, since there wasn't a Land Surveyor on staff until 1997, that no one realized they weren't being saved, so they didn't get backed up.
- e. There were server tape backups of all Public Works electronic files, prior to 2000, and especially for the Y2K bug in 2000. Unfortunately, IT informed me in the fall of 2012 that none of these tape backups survived the years of degradation, and are no longer readable. Subsequent conversations with IT staff have confirmed this situation. Latest chat with them was August 2018.
- f. Field notes from about 2000 until June of 2012 can be followed on the survey drawings completed by Donald Lee Day, PLS, which are available in electronic (.dwg) format.

How to interpret/calc P.O.S.T.'s in the original field notes (At least in 1948)



Plats and unrecorded plats in Public Works:

- 1) Hard copies of recorded plats are available by plat name in the cabinets. Not all plats are included, so it is best to get any plats from the Auditor.
- 2) Hard copies of unrecorded plats are available by plat name in the cabinets (hidden amongst the recorded plats).
- 3) Hard copies of unrecorded plats may also be available in the unrecorded surveys section.
- 4) It is best to look for unrecorded plats in both “unrecorded surveys” and “recorded plats”, as it may have been filed in either location

Unrecorded Surveys in Public Works research room:

- 1) Hard copies of unrecorded surveys (maps) are available by Section Township and Range in the hanging files
- 2) Some I-5 Washdot plans are available in the hanging files – it is best to contact WSDOT for these
- 3) Longview Fiber corner records are available (hard copies) on the west wall cabinet
- 4) DNR Corner records (older) are available (hard copies) on the west wall shelf. I've noticed a couple instances where these will not show up on a search of the DNRs website (though it is rare).
- 5) Private surveyor corner records (for timber companies and others) are available on the west wall shelf
- 6) **County Survey Book** - 1885 through about the late 1950's.
 - a. Prior to the 1973 mandatory survey recording act, the County Surveyor's Offices (in 1907 the title was changed to "County Engineer") was the only place to file your survey in this state (though it wasn't mandatory for private surveyors – just County Surveyors). In 1895, the County Surveyor's Office was charged by state law with recording, in a book, any surveys done by the County Surveyor or any of his deputies (except for those for Highway Plats or City Plats), and any surveys by any person that appeared to meet the standards for surveying, provided that they pay him a fee (the same as the County Recorder).
 - b. The 1895 law also had a retroactive clause that required the County Surveyor to take any field notes in his possession (from past County Surveyors) and turn them into surveys in this book.
 - c. Cowlitz County has a survey filing book that was started by FM Lane in 1895. It appears that Lane also added several earlier surveys by himself, BF Ivie, and others (from about 1885-1895). After Lane, some County Surveyors used the book regularly, and others have none or very few included (thought they have many surveys located elsewhere in the office – my best guess is they felt that they complied with the law as long as they created an actual map, and had it somewhere in the office). Several of the surveys were completed for court cases. Private surveyors also added surveys to the book (it wasn't mandatory for them, so there are fewer of those).
 - d. There are two books that contain and index about 200 surveys.
 - i. Index maps – showing where surveys were done (by page number)
 - ii. Actual surveys book
 - e. Many of these County Surveys are sectional breakdowns and show set monuments, as well as detailed maps and field notes.
 - f. This book has been scanned in its entirety (except for blank pages), has been indexed by STR, and is available for download. A digital copy was given on 2/29/2016 to the DNR PLSO, and will be added to the County's Lazerfiche system as staff has time. Photos of the original index book are also available digitally.

Unrecorded Surveys in Map Cases (near the rear door):

- 1) On the inside door of each case, there is a listing of contents with description and section, township, and range.

- 2) Staff has put together a spreadsheet of all of this, which includes STR, Description, Surveyor (if known), date, if known, etc. This index is available electronically.
 - 3) Many of these maps have hand-written notes on them (done after the original work) that can be immensely helpful.
 - 4) Some of these maps are very old and fragile. We have started scanning the smaller, less fragile, and easier to handle maps. Currently, we are in talks with the DNR to scan the more fragile ones, and ones that are too large to fit in our scanner.
- Currently, we have scanned most of these maps (those that aren't too fragile or too big for our scanner), and are in the process of indexing them onto the server.

At some point in the future, my plan is to consolidate all of the unrecorded surveys into one file/database by STR to make searching much more convenient, though it is a long ways away at this point.

Roadway Establishments:

Many of the early establishment documents (say early 1900's to early 1930's) have reference to stone monuments being set at the ends of the roadway. Presumably, these monuments were set underground, and some may be still out there. Unfortunately, we have not been able to find any of these stones up to this point. Nor am I certain how/if these stones were marked so as to be locatable. These establishment documents were not recorded, so they either show up in the County Engineer's files, or often were transcribed in the commissioner's journals. Many have the auditor's stamp on them, however, it appears that they were filed at the Auditor's Office, not recorded. Current Auditor's staff is unable to locate these files. In speaking with Joy (who had been with the Auditor since the mid-late 1990s), she said that there used to be "files" in the Auditor's Vault. Those files are now gone (she assumed they were archived at State Archives).

A local PLS told me that he remembers seeing all the establishments sitting in the hallway (one day back in the 1990s) to be purged. My hope is that they were archived, but calls and trips to state archives have not turned anything up, so far.

Unrecorded Survey Maps from the 1980s and 1990s:

The annex building next to the main county building on 4th Street. The third floor is the old archives location for the County. Public Works had plans/etc. up there until they moved to their 13th Ave. office. I went up there with Ken Stone, because we still seem to be missing about 20 years of survey plot maps (1980s and 1990s). We only were able to find three boxes and several old maps that we decided belonged to Public Works. Four of the maps we found were survey maps from the early 1980s. It proves that the maps existed at one point (Ken verified that he saw them over the years), but we still need to figure out what happened to them (assuming they weren't thrown away).

IT tells me that there are no backups or archives for electronic data prior to the year 2000, so that avenue won't work to get them back.

Scott found a few digital maps from the early to mid 1990s but just a few, enough to know that they did exist at some point.

FM Lane private survey files:

FM Lane was Cowlitz County Surveyor from 1893 through 1896, and again from 1901 through 1906. Lane took his field books with him when he left the County. Olson Engineering has the original FM Lane field books that they received from a family member several years ago. These records are indexed by STR (N and E lines). Their index is available on our server – not all books are indexed – there is a list on our server. We also have scans of all of these books (except 108 – it was missing for some reason at the time we scanned them). DNR has a copy of the index and all the field books we were able to scan.

Most of these books are by Lane. A couple were from CR Bell, and Alvin Bystrom (also past Cowlitz County Surveyors).

Claud Davolt private survey files:

Claud was the Cowlitz County Engineer/Surveyor for several years (after being an assistant county engineer for many years before that). Claud did private surveys throughout his career at the County, and after. Some of those files were later donated to the county. They are indexed and kept in the Engineer's Office. Some of these files contain handwritten legal description drafts and unrecorded surveys. Larry Keatley (local surveyor and longtime county employee) worked for Claud on many of his later surveys (at least since 1966) and can sometimes provide additional information on how Claud did things. Harry Becker also worked with Claud, so if you see Harry's name somewhere, Claud was probably involved as well. It appears that Russ Bass had these documents at one time, and some of the calc-sheets and surveys are from him, though most appear to have been Claud's.

We have approximately 20 Claud Davolt Private survey field books, ranging from 1937 to about 1966. They also have one or two books by Harry Becker and Larry Keatley, up to 1971 or so. Becker and Keatley worked for Claud. They also appeared to go by "K & B Engineering" for a time.

GIS has quite a few old linens from the 1940s and 1950s in their main office. Most of these were done by Claud Davolt, but may include surveys by others (not all are signed or initialed). These have been scanned and are available on the Public Works server.


























Road Files:

- 1) Full of good road information collected by Public Works over the years
 - a. Photos (aerial and stills)
 - b. Letters
 - c. Maps, sketches, and agreements
 - d. Waivers, Easements, and Fee Takings
- 2) Some roads have tax maps in the road file with the document numbers for waivers, easements, etc. hand written on them. These were:
 - a. Done at various times, by various county staff
 - b. May not be complete, or could be a snapshot in time

- c. Watch out for road name changes and multiple road names/file numbers

Road Name Changes:

- a. There is no real list of these name/number changes, except as available in the road files (sometimes a resolution by the commissioners is included, but not normally). I found a list of several road name changes that is on the server and in Laserfiche. A hardcopy is hanging over by the engineering printer.
- b. Staff has indicated that Don Day may have had a list of road name changes that he compiled over the years, but it has gone missing after his retirement. If you find it, or have a copy, please let me know.
- c. See the latest road log for official current road names.
- d. See previous Road Logs for legacy names.
- e. See also the large format road map by public works (on the wall in the records room) for current road names.
- f. See individual road files for name changes, if available.
- g. See the old County Engineer's Road Index Maps (large format) for indication of previous road names and locations – this is presently your best initial source for road name changes, though it won't have all of them. These are now scanned and on the server.
- h. See also the many roadway maps that have been compiled over the years (1897-2015) by County Staff for various purposes. These contain the names used at the time and can be very helpful.
 - i. I have had as many of these maps scanned and added to the server as possible at the following location <F:\General Survey\Survey Research and Indexes\Road Index Maps>, as shown below:

Name	Date modified	Size
 _Road Name Changes - Resolutions, etc	5/8/2018 2:52 PM	
 As-built Road Maps-1925-County Commissioners	10/23/2017 3:48 PM	
 Road Index Book-1880ish-Public Works	12/19/2018 6:18 A...	
 Road Index Book-1925ish-Public Works	8/20/2018 9:51 AM	
 Road Index Book-1930ish-Auditor	3/7/2019 10:15 AM	
 Road Index Book-1946ish-Public Works	1/12/2016 8:14 AM	
 1895-Cowlitz County Map - FM Lane_1895.jpg	4/25/2014 7:59 AM	1,065 KB
 1895-SL_CowlitzCounty_1895.djvu	11/25/2014 10:51 ...	1,332 KB
 1897.djvu	11/25/2014 10:56 ...	837 KB
 1897-Andersons Map of Cowlitz CountySL_CowlitzCounty_1897.jpg	7/27/2015 2:57 PM	10,176 KB
 1909-Cowlitz County Map - 1909.jpg	3/5/2015 9:20 AM	1,694 KB
 1926-Cowlitz County Map - 1926.jpg	3/5/2015 9:22 AM	1,903 KB
 1936-Cowlitz County Map - 1936-SHD.jpg	3/5/2015 9:25 AM	1,495 KB
 1937-Cowlitz County Map - 1937.jpg	3/5/2015 9:28 AM	1,802 KB
 1938-Cowlitz County Map - 1938-E Half.jpg	3/5/2015 9:24 AM	1,236 KB
 1948-Cowlitz County Map-And Longview.pdf	5/22/2014 1:08 PM	3,034 KB
 1954-Cowlitz County Highway Map.pdf	5/29/2018 9:26 AM	8,589 KB
 1956-Cowlitz County Highway Map.pdf	10/11/2018 10:44 ...	1,082 KB
 1959-Road Map of Cowlitz County.tif	7/27/2015 2:51 PM	886 KB
 1973-Cowlitz County Road Index Map.pdf	11/25/2014 10:44 ...	7,708 KB
 1975ish-Cowlitz Road District Map.pdf	3/5/2015 10:53 AM	2,105 KB
 1977-Longview-Kelso.pdf	1/29/2019 4:35 PM	2,523 KB
 2012-Cowlitz County Road Atlas.pdf	3/19/2014 1:13 PM	45,246 KB
 2015-Cowlitz County GIS Map.pdf	5/20/2004 12:25 PM	2,946 KB
 2019-Cowlitz County Road Atlas-Prelim.pdf	1/8/2019 12:07 PM	188,150 KB

Road Index Maps:

The County Engineer's Offices in this state have long been required to keep maps in their offices, showing the locations of all County Roads. In Cowlitz County, there are three main sets of legacy maps to show this information, from the 1880s, 1920s, and 1940s. These maps are one of the main ways we have of determining old road names and locations. They are located in the same place on our server as the name change information. See above.

Road Logs:

The Road Log is a milepost listing of features along a county road that looks like this:

BMP	EMP	Juris	FFC	Fed Rt	Trck Rt	Width	Surf	ADT	Year	Shop	Leg Dist	Section	Twnshp	Range
0.00	0.19	County	19			22	ACP	464	1984	KEL	18	22	8	02W
0.19	0.32	County	19			22	ACP	100	1986	KEL	18			

MP	Description
0.00	PACIFIC AVE N @ 1.170
0.07	Approach R 118
0.13	Culvert 1.00 ft span
0.15	Culvert 1.00 ft span
0.15	Culvert 1.00 ft span
0.17	NELSON AVE @ 0.080
0.19	Approach R 144
0.31	Culvert 1.00 ft span
0.32	END OF ROAD

The road logs can be extremely useful in determining where a road begins and ends, what features are along that road, and can indicate changes over time, by going through old logs. I have several old road logs in my office. As we get time, we scan the old ones in. The latest one is 2012, the oldest I have is 1926. The earliest road logs are contained in the survey field books. The first typed one we have is from 1954 and they keep that general format to present. As they are scanned, I have been putting them here:

<F:\General Survey\Survey Research and Indexes\Road Logs>

Name	Date modified	Type	Size
Road Log Updates to Crab	6/19/2018 12:49 PM	File folder	
void	1/20/2016 7:11 AM	File folder	
PRJ LIST 030911.xls	10/3/2012 2:31 PM	Microsoft Excel 97...	85 KB
Road Log Database	6/14/2016 8:44 AM	Shortcut	3 KB
Road Log-1926-19.pdf	5/1/2018 9:00 AM	Foxit PhantomPDF...	9,539 KB
Road Log-1935-04.pdf	9/26/2014 10:13 A...	Foxit PhantomPDF...	6,992 KB
Road Log-1936-10.pdf	9/26/2014 10:02 A...	Foxit PhantomPDF...	5,625 KB
Road Log-1942-06.pdf	9/26/2014 9:28 AM	Foxit PhantomPDF...	8,874 KB
Road Log-1948-02.pdf	1/22/2015 9:52 AM	Foxit PhantomPDF...	10,626 KB
Road Log-1954.pdf	5/24/2018 8:18 AM	Foxit PhantomPDF...	4,072 KB
Road Log-1954-Annotated Maybe 1960s...	5/24/2018 8:19 AM	Foxit PhantomPDF...	5,058 KB
Road Log-1979.pdf	1/20/2016 8:16 AM	Foxit PhantomPDF...	17,891 KB
Road Log-2012.pdf	4/26/2012 9:02 AM	Foxit PhantomPDF...	4,185 KB
Road Name List-Alphabetical-2016-06.pdf	6/14/2016 8:31 AM	Foxit PhantomPDF...	37 KB
Road Name List-Numerical-2016-06.pdf	6/14/2016 8:45 AM	Foxit PhantomPDF...	65 KB
Thumbs.db	6/13/2018 7:13 AM	Data Base File	176 KB

The current access database for road names and numbers (that is kept up as names or numbers change) is located here: <\\adminsrv3\admin\Database Files\Road Log\Road Log.mdb>

Bridge Logs/Files/Inspection Reports:

In 1907, WA state law (session laws of 1907, Chapter 160, Section 3 – [S.B. 126]) required that the County Engineer “shall at least annually inspect or cause to be inspected, all bridges of the county, and make a report in writing to the board of county commissioners with such recommendations for the repair and maintenance as he finds necessary.”

In Cowlitz County, bridge inspections were typically recorded in the Engineer’s Office Field Books, and can be found by searching the indexes therein (1909-1980s-ish). I have not seen actual reports to the commissioners that the 1907 law indicates.

Later (say 1940) they had entire “Bridge Logs” created in field books. These books were separated from the other field books for some reason and currently reside in a box under the desk in my office. I’ve seen Bridge Logs for 1944 and 1948. Not sure if they are complete or not, but appear to contain many bridges. My plan is to bring these into the overall field book index when we have time.

At some point (not sure when) they created a Bridge File for each bridge (located in the research room next to the Road Files). These include inspection reports, photos, and whatever other data was deemed important enough to keep. Bridges that no longer exist or no longer belong to the County have been pulled out and are in boxes. Some or all of these files may be in Laserfiche (not sure).

Road Books:

- 1) There are three books on the shelf on the west wall of the records room labeled “Road Book”. These books contain establishment notes, survey reports, viewer’s reports, etc. for early roadways
- 2) There is an index for Book 1, handwritten. A scanned copy of this index is available on the server
- 3) Several of the reports in these books are tied to the large road book via handwritten notes by the Auditor (in the large road book)
- 4) These books have been scanned and are on the server. Indexes are in progress as time allows.
- 5) We appear to have a gap between 1882 and 1885. Looked at the County Museum, but didn’t find anything.

Roadway Maps/Plans:

(can also be considered unrecorded surveys and are integral to the field notes)

- 1) In hanging cabinet on south wall and/or the server and laserfiche
- 2) By road number (list is available)
- 3) May show monuments or ties not recorded, especially when used in conjunction with the field notes
 - a. County engineer does not need to file as long as map is available in the county engineer’s office

- b. Many times, the field book number is written on the plan somewhere (usually in the title block on the left-hand side)

Roadway Vacations:

- 1) There is an index of Road Vacations available as a spreadsheet and a searchable pdf on the Public Works Research page.
- 2) Resolutions for ALL the vacations appear to be on the Laserfiche files (under Roads Admin). It doesn't appear to be searchable by road name, but seems complete (use the index spreadsheet to figure out which one you need).
- 3) Commissioners' journals are where most of these were approved. Some CCJs are referenced by book and page in our Road Files or other indexes. There is an index of vacations in the pull out drawers on top of the map case next to the rear door of the building.

Volcano Roads:

After the Mt. St. Helens Eruption in 1980, several roads became unusable due to mud flow deposits or were washed away. If you are working in the unusable portion of one of these roads, please speak to the County Engineer for more information. Some of these roads are (or portions thereof):

Fiest Road
Cook Ferry Road
Toutle Park Road
Toutle River Road (#4)
Tower Road
Otto Cook Road
Maple Flat Road
Wheeler Road
River View Drive
Stillmeadows Lane

1980s – 1997 survey maps:

Prior to the advent of the data collector, modern EDMs, etc., most of the County Surveys were included in the road plans. Meaning that one can read the field notes and trace where they are on the road plan. Sometime around 1975 (when the county got a theodolite and distance meter and started doing radial surveys) this practice stopped, and they started having separate survey drawings/sketches from the Road Plans.

Unfortunately, most of these survey drawings are unavailable at the moment. I've been to State Archives, the old County Annex, and the County Museum, but have so far found very little (half a dozen maps out of what should be several hundred). Because of the "new" way of surveying with an EDM, there was typically no way to follow the field notes on the Road Plan without the survey map (they started using point numbers instead of stationing in their notes). You can still figure out what they tied, but you will need to redo their entire survey and plot out all of the notes. Obviously, this makes utilizing surveys from this era cumbersome at best. Also, during this time (and until I arrived in 2012) it was standard practice not to note all set monuments in the field notes. Prior to

this time-frame (say pre-1975), the field crew traversed, calced, and set their monuments at the same time (during the project), so many set monuments appear in the notes. During this time (post 1975), the office calced most of the Monuments to be set, so they don't show in the notes. This means that without those maps/sketches, we have no idea what they set or where they set it. Due to this last point alone, I am extremely motivated to find these old surveys/maps/sketches, and will continue to utilize any resource I can think of.

So far, I have looked on the 4th floor of the old County Courthouse (the old jail), "small claims" under the north stairs in the old Court House, the upper levels of the annex building next to the old Courthouse, Building and Planning (the old Public Works location), and Public Works' current office. I've gone to state archives, and I've spoken with many people who were in Public Works in those days (including Kent Cash, Ken Stone, Jodi Spahman, etc.) but no one seems to know what happened to them.

Segregated Construction Field Books:

There are three old boxes of field note books in my office that we need to go through someday. They appear to be County Engineer Field Books for bridge inspections, general construction, manhole dips, and road inventories. I had someone scan through them and pull out anything that seemed relevant to surveying, which are now in the Field Book cabinet and are in the index and have been scanned. The rest seem to be pertaining to construction of one sort or another. Not sure why they were segregated from the other field notes.

Professional Land Surveyor Surveys (1998 to 2011):

Public Works hired a professional land surveyor to oversee its surveys in 1998. Prior to that it was done by various county staff, at the direction of the County Engineer. Fortunately, most of these Engineers were also surveyors. Donald Lee Day was the Public Works Land Surveyor from 1998 to 2011. Don amassed a huge amount of work over the years. In utilizing Don's surveys, please remember:

- 1) Because Don worked under the authority of the County Engineer, most of Don's surveys weren't recorded in the Auditor's Office. They were filed in the office of the County Engineer, per the ROS exception in state law. You will need to contact Public Works to search the hardcopy and server files.
- 2) Many of these unrecorded surveys are only available in CAD format (mostly Autocad LDD), though some of the last ones were done in Civil 3d.
- 3) Most of the Autocad drawings (unless it was something he intended to file for the Auditor) do not have:
 - a. Any notes on them as far as how he resolved something.
 - b. Basis of bearings and coordinates.
 - c. Monument notes beyond the autocad point description, which isn't the full description of the point.
 - d. Where it is located.
 - e. Road names (other than as listed in the file name).
 - f. These were done strictly for the engineering department, who already knew this information, or was provided it in person.

- g. Don kept detailed hard-copy files of all his projects, so you can go through the hard-copy for notes, waivers, deeds, etc., which will allow you to figure out how a particular resolution was done.
 - h. Don's hardcopy files are available in my office, in three filing cabinets and are indexed by road/project name.
- 4) Most of the record that Don used for this road surveys came from Public Works field notes and files. It was considered filed/recorded information, so would not need to be refiled/recorded.

Don's electronic files are available on the public works server, and are indexed by Road/Project Name and/or County Project Number. A global server search for road name and project number usually works best for finding these surveys. Again, most of them were unrecorded (at least with the Auditor), but are indexed on the server, so they are there, and available.

I have started creating a location based (GIS) database of many of these (and ongoing) projects, utilizing Google Earth for the moment to "pin" county projects. This can be a quick way to figure out where Don has done work, though it is incomplete, and probably won't ever be complete, as it is simply intended to help myself and County staff figure out where relevant projects are (as we need them). We aren't actively cataloging old projects at this time.

As I find them, I have been making copies of Don's unrecorded, but signed surveys and putting them onto the server (<F:\General Survey\Survey Research and Indexes\Unrecorded Surveys\Don Day>)

Current PLS Surveys:

I was engaged (on an as-needed basis) as the consultant land surveyor to Cowlitz County Public Works, between June 2012 and December 2014.

I am now engaged as the full time Professional Land Surveyor for Cowlitz County Department of Public Works, and have been since January 2015.

I have tried to put all of my projects into a GIS database in Google Earth. Most actual survey work that I've done for the County should be in there with job name, county project number (if it had one), and whatever other notes I could add to aid in finding the data. My other projects (mostly research and review) are not included in this database.

I am trying to record as much as I can with the Auditor's Office (instead of just filing it in the Engineer's Office, as was done in the past) – assuming it is something that should typically be recorded. If the ROW is already well documented (either at the Auditor or in the Engineer's Office), then I file copies (digitally and in hard copy format) of the stamped final topo and/or boundary drawing in the Engineer's Office. On some projects (at the beginning of my time here), the County asked me to write memos detailing what I did and why. These will be in the project digital file and/or in the hard copy file. I have been creating hard copy brown files, using the previously setup filing system by Don –

indexed by Road or Project Name, in the same filing cabinets he used, which are currently located in my office.

My filed, but unrecorded, surveys are being saved in the following place on the Public Works Server: F:\General Survey\Survey Research and Indexes\Unrecorded Surveys__Non Recorded Projects-Post 2012-06, and are available for public inspection, as required by RCW 36.80.015.

Legacy Vertical Control:

- 1) There is a drawing in Autocad C3D format available in public works that has many past (pre-2012) control points on it that the previous surveyor put in from his past projects (and from past GIS projects).
- 2) There is an Access Database Available in Public Works that has all of these control points in it. Currently, this database has limited functionality, as it was created on a very old version of Access.
- 3) There are hardcopies of several of level runs with photos, descriptions, etc. available in Public Works (in the County Surveyor's Office). We've also scanned these books, which are available on our server.
- 4) All of these points have been put together over time, and may or may not be relevant or accurate for your purposes. It is your responsibility to check with other source data, shoot multiple benchmarks as a check, and/or use GPS to verify position prior to use. Public Works does not check these monuments for subsidence, movement, etc.
- 5) This is a legacy database. Public Works no longer adds to this database, nor maintains or supports it. If you come in looking for something, we will provide it as public information, but be warned that it may not work for your purposes, and there may not be metadata available regarding its original reliability. Many of the points in this system were created by GIS for aerial targets (utilizing fast static GPS procedures – 20 years ago), and the elevations are not very reliable. Be very careful if using this data.

Aerials:

- 1) Hard copies of various aerials are available in the records room
 - a. 19xx
 - i. See xxx index map in the corner leaning against the west wall shelf
 - b. 19xx
 - i. See xxx index map in the corner leaning against the west wall shelf
 - c. 1950s era (1948 to 1960) photos
 - i. In books above the road files
 1. These are up on the top shelf in the records room in black books by STR
 2. Summer help has scanned them onto the server, and put copies into Laserfiche
 3. Arranged by Section Township and Range
 4. Sometimes have dates handwritten on them
 5. Most are not dated
 6. There are some overlapping photos of the same area (usually from different time periods)

- 2) There is an exhibit map of existing aerial data by GIS on the PW server
 - a. Not all of it is available to non-county staff due to interagency agreements to only use certain data and not share it with others. Only affects some of the FEMA mapping that I am aware of.
- 3) Corps of Engineer's Aerials:

The corps of Engineers flew aerial photo missions for high water/flood years back to the late 1920s. So far, I have been able to obtain images from 1929, 1933, 1939, 1948, and 1957, for areas along rivers, such as the Lewis, the Columbia, and the Cowlitz. They charge for private requests, but not for public. They don't want us sharing the aerials we get for free with the Private Folks (there is an agreement to that affect between the County and the Corps – through GIS). The contact I have been using is:

Chris Edwards (503) 808.4820
Chris.B.Edwards@usace.army.mil
U.S. Army Corps of Engineers, Portland
CENWP-EC-TG
333 SW First Ave
Portland, OR 97204
503 808 4820
(fax) 503 808 4805

Other Cowlitz County Departments

Cowlitz County Auditor's Office:

Road Book

- 1) There is an old book labeled "ROAD BOOK" in the NE corner of the research vault. This book contains a listing of old roads, showing their establishments, references to Commissioner's Journals, etc., with sketches of these roads by Township and Range (in the back). This book has been scanned and is available on the Public Works Server for download as it is too large to email.

We are breaking this book up into pieces (digitally), as we have availability, and are putting it into the County's Laserfiche Road File System. These will be placed under (Right of Way/Establishment) and will have Aud Rd Bk in their title. Most have not been added to their roads at this point, so you will likely have to ask us for them.

As far as I can tell, this has been public record information, and available at the Auditor's Office since the early 1930s, when it appears this book was created. The last entry appears to have been March 5th, 1941, so if you have a pre-WWII road, you should probably check in this book, as it will likely be there.

- 2) The Road Book also has a hand-written index of recorded documents for various roads from the 1890's to about the mid-1930s. This index is on yellow paper in the Book's pockets. This is also scanned and available on the PW server.

Assessor's Property Index Books

These are the giant green books that are available on the left side, when walking into the Auditor's records room.

- a. Indexed by STR and DLC and/or City
- b. Great way to do a quick chain of title by location (instead of Grantor/Grantee)
- c. May not be complete, but can be a great place to start
- d. Seems to include many original road waiver references for early roads (this doesn't appear to be the case later on). Not sure what the time periods were for indexing waivers, but it seems that they stopped sometime in the 1940s.
- e. Public Works has amassed a collection of photos of the pages of this book, as we need to for projects. These images are not the greatest quality, and some of the page is usually missing (the names and document numbers part is there though). It is available here: <F:\General Survey\Survey Research and Indexes\Assessor Deed Books>
- f. Public Works Summer Help has begun scanning these books in high resolution onto our server. We are working on the County-wide books (not the City ones). So far, we have all the STR books, all the DLC books, and most of the two County plat books scanned and indexed on our server. These are not available online at this time.

Records of Survey

- a. Hardcopies by STR in the Auditor's Office. These may be going away in the next year or two, as the Auditor sends them to Archives and transitions to digital only in-house copies.
- b. Electronic index and database via computers in Auditor's research room (Eagle Recorder - this can be searched by STR).
- c. Surveys are available online at the Auditor's Research website (this can't be searched by STR). Must know the AFN or book and page.
- d. DNR Webextender website. This may be the best way to search for Surveys Digitally if you don't have access to Eagle Recorder.

Plats

- a. Hardcopies by Plat name/number
- b. Electronic index and database via computers in research room (Eagle Recorder - this can be searched by STR)
- c. Plats are available online at the Auditor's Research website (this can't be searched by STR). It may be easier for most folks just to search the DNR webextender website.

City Ordinances

There is a book in the records room (left hand side going in) above the Surveys that has ordinances for streets, etc. listed by City. Done sometime in the 1950's. This record is not complete, but can be immensely helpful.

Establishments, Waivers, Surveyors Reports, etc

The Auditor's Office used to keep copies of these documents (according to staff, and some evidence I've seen in our road files). They had "files" that used to be in their downstairs research room (prior to it being cleaned out and repurposed for the print shop). According to a land surveyor contact the establishments, etc. were piled up in the hall to be purged, along with some old Davolt maps. We've determined that the Davolt maps went to GIS. Not sure what happened to the establishment documents.

Cowlitz County Commissioner's Journals:

The commissioner's journals start in 1855 and continue through present. These records have information on roadway establishments and vacations, plat approvals and vacations, county property boundaries, and a host of other things related to county and private property. These records are sometimes the only location of information regarding a particular roadway, as many of the approvals were not recorded in the Auditor's Office. If you think something is missing from the road file regarding a roadway establishment, roadway vacation, plat vacation, etc. then you need to request to look through the Commissioner's Journals. Public Works cannot allow outside access to the files (due to privacy concerns), but you can access them through the County Commissioner's Office. We are adding these records to the road files as we obtain them for projects.

There is an index that Ken Stone put together showing dates for the various Commissioner's Books, and dates of commissioners service, which can be extremely helpful.

Cowlitz County GIS:

Jim in GIS has been there for over 20 years, and is a wealth of information. He knows where most things are/were in the county, in relation to maps, recent survey history, etc.

GIS has a couple garbage bags with George Raper maps in them. I reviewed what is there, and it looks like mostly blue-lined copies of recorded maps. Some linens or mylars (of topos) are included, but there is no index to know what you are looking at. It also appears that the bulk of the George Raper boundary maps were sent to DNR, so there probably isn't much in there that can't be found elsewhere in an easier to research format.

- GIS has current Road Atlases for sale to the public

GIS has quite a few old linens (and on other media) from the 1940s and 1950s in their main office. Most of these were done by Claud Davolt, but include surveys by others (or have no signature). We have scanned these, and they are available on the Public Works server.

GIS also has a bunch of general unrecorded maps (private surveys, railroad maps, etc.). These are roughly indexed and available in their main office as well.

I also found a random garbage bag of K&B Engineering stuff outside of the GIS cage, near the elevator (at the outside window) on the top floor of the annex. It didn't seem too valuable, but you never know. No index found. If we have time, I'll send someone to take another look and scan anything that looks useful.

Cowlitz County Historical Museum:

The County Museum houses a large number of maps, oral histories, etc. that can be useful to the surveyor. Many of these maps came from Public Works or other departments in the County. Some maps were probably things that Public Works wanted to keep, but other departments gave to the museum, not realizing what they were (from conversations with Ken Stone and others), which means that there are probably many useful items in their possession. Claud Davolt was a founding member of the Museum, so who knows what he gave them. Bill Watson is the person to talk to about maps in their collection.

Cowlitz County Superior Court Orders (SCO):

Superior Court Orders pop up on GIS quite a bit for divorces, boundary disputes, etc. These cases are sometimes recorded in the Auditor's Office, but most often not. Therefore, one needs go to the hall of justice and request a copy.

SCOs are available on Laserfiche (back to 1983) for County legal staff. Other County staff can call and request copies be sent over.

For private surveyors: There are several books of SCOs (in abbreviated format) in the bookshelf just inside the breakroom in the Auditor's Office Vault. Otherwise you'll have to contact the Superior Court directly to obtain copies.

Other Sources of County Research

CDID#1 Headquarters:

There is a massive collection of old maps at CDID#1. Most of these maps have something to do with the dikes out in that area. However, according to Judy Strayer, District Manager, their surveyor for many years (Bob Carpenter, PLS 19616) obtained many maps from the County when they were purging old files, so there are also aerials and general mapping documents, and may be other stuff. There is an index available on the Public Works Server (or by contacting CDID#1 directly).

In speaking with Mr. Carpenter, he confirmed that there was a massive purge of old survey related documents and maps over at the court house sometime in the 80s or 90s. He was able to rescue CDID#1 files, but nothing else. I'm guessing that this is what happened to the Diking District files that seem to be missing from our records (for all the other districts besides CDID#1). Hopefully, some or all of this went to State Archives or the Museum, though nothing has turned up as of yet.

Corps of Engineers:

Many of our diking districts have data at the Corps of Engineers. Most of the records are in Portland, because we drain to there, but some may be in Seattle. Here is a contact that I've used successfully in the past to obtain aerial photos. I've gotten photos for big flood years back to 1929.

U.S. Army Corps of Engineers, Portland
CENWP-EC-TG
333 SW First Ave
Portland, OR 97204
503 808 4820
(fax) 503 808 4805

Chris Edwards (503) 808.4820
Chris.B.Edwards@usace.army.mil

DNR PLSO:

Currently, I am working with the DNR PLSO to get digital copies of Public Works records into their hands as a backup (as we have them). I have started uploading files to their FTP site. So far I have given them copies of our:

- 1) Field notes from 1885-1990, including our latest index
- 2) Unrecorded Surveys (Hanging Files) including our STR index
- 3) Unrecorded County Survey Book (1885-1950ish)
- 4) FM Lane field books and index
- 5) AE Shulz field books, surveys, and index
- 6) WSDOT field books
- 7) WSDOT "Hard Shells"

The DNR PLSO has many files that aren't available in the County archives (Auditor, GIS, Public Works, etc.). It is highly recommended that you also utilize their resources when doing projects in Cowlitz County.

- a. They have many old railroad maps, field notes, RR exhibit maps that aren't in the County Engineer's records
- b. Some diking district exhibits and maps have made it into DNR PLSO files that are no longer in the County. These may have been sent to archives, or lost when the files were out of County hands (there were several times over the years where the documents went back and forth between the Diking Districts themselves and the County). They also may have been thrown away in the 1980s or 1990s per conversation with Bob Carpenter (see CDID#1 discussion above).
- c. They have quite a few maps for proposed roads back in the 1920s – 1950s. These maps appear to have been made by Public Works, and have corner information on them, but are no longer available at the County (as far as I have been able to determine).

Longview Library:

The Longview room of the Longview Library has a collection of documents and maps from the Longbell Lumber Company, dating from the 1920s and 1930s. In speaking with

the librarian responsible for this collection, and a quick view of the room, there would appear to be many maps and documents that would be of interest to surveyors, especially in regard to the dikes and properties out in the Willow Grove area.

<http://longviewlibrary.org/longviewroom.php>

There is an online presence for the old photos in this collection. It is here, and is searchable: <http://contentdm.longviewlibrary.org:2011/>

Longbell Monuments:

In particular, Longbell had monuments set for many of their projects. There is a list of coordinates in public works of many (maybe all) of these monuments. There is a large map at the County Museum from the 1920s that shows proposed Longbell properties and options. A digital copy of this map is available on the Public Works server. The 1940 Trantow map also shows many of these monuments. Copies of the Trantow map are in the Cowlitz County Museum, and County Assessment.

Washington State Archives:

Security Microfilm

There is quite a bit of information at State Archives. It appears that many records in Public Works were microfilmed and sent to archives in 1981. These films are available to retrieve from Central Microfilm Archives, as required.

We have a copy of the index of what state archives thinks the Auditor and Public Works has in microfilm archives. These indexes are on the server.

Our latest contact has been:

Ann Elkin
360-753-0740
ann.elkin@sos.wa.gov
securitymicrofilm@sos.wa.gov
Washington Secretary of State/Security Microfilm
1129 Washington Street SE
Olympia, WA 98504-0238

Also, there is an index in the Auditor's Office that says that the engineering documents were microfilmed onto 35mm rolls in 1960 (township books, surveys, engineering projects, etc.). This film was reportedly kept in the Auditor's Office until 2007, when they redid their records room and sent a bunch of stuff to State Archives. Unfortunately, State Archives hasn't been able to find these films, so I'm not sure if they were sent to the state, or filed somewhere else (Public Works, GIS, or Planning seem the likely candidates). I've spoken with Planning and GIS, and have gone through Public Works files, but no luck so far. In speaking with Ken Stone, he thinks that these microfilms were in public works possession at one time. Whether they are in the annex, in the file storage at the public works building, State Archives, or somewhere else, he didn't know. Searches at all the before-said locations turned up nothing.

SW Region Records (Olympia)

For hardcopy documents our records go to Tracy Rebstock at:

Tracy Rebstock
Washington State Archives Southwest Regional Branch
1129 Washington Street SE
Olympia, WA 98504
(360) 753-1684
Business Hours Monday to Friday 8:30am to 4:30pm

There are two boxes of waivers, maps, and documents available at SW Region Archives. An index of what is in each box is available on the server. It appeared to be mostly old stuff that no longer really applied to current roads any longer. They may have been vacated, or files of facilities that Public Works no longer owns or maintains. I need to go back and revisit this sometime, now that I know much more about old records in the County.

Local Land Surveyors and their pre-1973 records:

(Alphabetized by last name)

Andrew (Alvin) Bystrom

Information that I obtained from Arden Stocks (he knew the family) is that Bystrom was in business with FM Lane and that the two of them met somewhere before coming to Cowlitz County (possibly working together at a RR company). There are some GLO field books in our regular Public Works field books cabinets and index that Bystrom/Lane appear to have done for the GLO out in the east side of the County. See Public Works Field Book Index. One or more of Bystrom's field books appear to have ended up in the FM Lane collection as well.

Robert (Bob) M. Carpenter (PLS 19616)

Bob is a local surveyor, retired, who worked for CDID#1 for several years. He also worked for Cowlitz County for awhile. Bob rescued many old documents from the County Assessor's Office, Auditor's Office, and other purges of data in the 1980s-1990s.

In speaking with Bob, there was a very large purging of old documents back in the 1980s-1990s by one of the Assessors/Auditors, who destroyed many of the really useful maps in the County's possession at that time. Bob took a large number of documents related to CDID#1 and that general area and these records are now housed at CDID#1. Unfortunately, he believes that many documents related to other portions of the County were thrown away in these purges.

Archie B. (Brent) Carpenter (PLS 16196)

According to Karl Germunson, Brent Carpenter (AKA Archie B. Carpenter) was a surveyor in the area that worked for Weyerhaeuser for many years. My understanding from others is that Mr. Carpenter is still around in the area. I do not have contact information for Mr. Carpenter, nor have I spoken with him about what pre-1973 records

he may have. I understand that he took Arden Stocks on quite a few corner searching missions up on Mt. St. Helens, back in the 1980s.

Claud Olson Davolt (PLS 328)

Most of Claud's public files are here at the County. Many of his private files and surveys are here as well. See page 12 in this document for more information. Arden Stocks had (at least at one time – he can't find it now) a taped interview with Claud that would be interesting to have a copy of for the Museum, if it still exists.

Karl Germunson (PLS 38958) Dorell Germunson (PLS 10997)

Karl is a Land Surveyor, currently working in the County, in private practice. His office is in Castle Rock. His dad (Dorell) worked privately in the area since the 70s, and worked for Weyerhaeuser before that. Besides Dorell's pre-1973 survey records, they have Vickers records, and various other bits and pieces (Weyerhaeuser stuff, Brent Carpenter stuff, field notes from the 1922 Kalama shoreline mapping, things they saved from being thrown out at Cowlitz County, etc.).

LC Gibbs (PLS 936)

See Gibbs and Olson records. Unfortunately, someone threw out the majority of the pre-1973 records while the PLS was out on vacation. Some records are available at Foresight Surveying in Chehalis. Ken Frasier up there bought the Lewis County records from G&O back in the day. According to the G&O PLS, if there was a Lewis County Job in an old field book, Ken got it, even if it contained mostly Cowlitz surveys, so it is possible they have quite a bit of information.

Erland V. Hill (PLS 7591)

Hill's records went to Clark County. Mike Gilroy (the surveyor who indexed them for Clark County) says he sent the Cowlitz ones here. Can't find anything specific around here. Not sure where they ended up, who got them, or what they did with them. Since I'm not sure exactly what they looked like, it may be that they are already here somewhere.

Uuno Gustav Jackson (PLS 462)

UG Jackson was a private/public surveyor/engineer working in Cowlitz County in the late 19teens to the late 1930's. He was previously the Clatsop County Surveyor – 1910-1915. He was City of Kelso surveyor from about 1920-1924, when he left the City to go into business with Middlebrooks. Jackson was diking engineer for several districts in the area. He has a couple of field books and several drafted survey maps recorded in the Cowlitz County Engineer's Office, which also has references in County field books to other prior surveys/field notes of Jackson's that aren't here. Sometime in the late 1930s, it appears that he went to work for the USACE in the Portland District. I need to speak with the Corps to see if any of his records ended up there. He may have also had EA Middlebrook's records, as Middlebrooks died in 1939, so it makes sense that they would have gone to Jackson. I'm hoping they are sitting in a box at the Corps somewhere. Chris Edwards at the Corps gave me a contact for their librarian (Jennifer Muller). I need to follow up with her when I get a chance/reason to dig further.

Rae L. Johnson (PLS 1786)

According to others, Ray Johnson was a surveyor who worked in the Cowlitz Area in the 1920s through the 1980s and for Weyerhaeuser and International Paper. When he passed away, his stepson, Darren Darby, took his files. Darren now lives in Montana. I have not spoken with Mr. Darby to inquire about this collection, though I expect to sometime in the future when I have a project where it is relevant.

Stuart (Larry) Keatley (PLS 37552)

Larry worked for Cowlitz County Public Works since the mid-1960s as a construction inspector and survey field crew. He later got licensed as a Land Surveyor (2001). He worked for Claud Davolt on occasion, back in the 1960s. I don't think he has pre-1973 records, but he does know quite a bit about Claud and the past Public Works survey staff. He worked with Harry Becker and Claud Davolt back in the 1960s and 1970s on non-County work.

J. Frank King

Did the timber cruise and topo survey for Longbell (either just prior to or after their timberlands purchase). The museum has at least one book of this information. Need to get down there someday when I have time to figure out more about King and his surveys. Are there actual survey maps related to these books?

Fred Milton Lane

Was County Surveyor, County Commissioner, Diking District Commissioner, Diking District Engineer, off and on over his career. His surveying in Cowlitz County appears to span from the early 1890s until 1933, when his field books stop (at least the ones we have). He had a farm out in Woodland Bottoms and seems to have done quite a bit of surveying there, including for Poysky on the original Dike survey. See page 12 for more information on his field book collection.

G.K. McKensie

Arden Stocks has some of his records that were sitting in a box in the basement of a house he bought many years ago (the ones that hadn't turned to dust anyway). I don't know much about McKensie yet. Will add more as I learn it from Arden.

Ernest A Middlebrooks (PLS 206)

County Engineer for several years. Also in private practice with UG Jackson for several years. Was diking engineer for several districts as well. Can't find his records. Maybe they went to Jackson after his death in 1939?

Oscar E. Olson (Engineer)

See Gibbs and Olson records. Unfortunately, someone threw out the majority of the pre-1973 records while the PLS was out on vacation. Some records are available at Foresight Surveying in Chehalis. Ken Frasier up there bought the Lewis County records from G&O back in the day. According to Rich Williams at G&O, if there was a Lewis County

Job in an old field book, Ken got it, even if it contained mostly Cowlitz surveys, so it is possible they have quite a bit of information.

George Jacob Poysky (Engineer)

GJ Poysky was diking engineer for most (if not all) of the early districts from about 1915 to 1920. It appears that he may have contracted out his surveying to others (Lane, Jackson, etc.). Still need to confirm that. There is a good genealogy site for the Poyskys (that mentions him). I tried emailing them to see if his records were still around, but didn't get a response.

George H. Raper (PLS 9947)

George worked in the area in the 1960s-1980s. He worked on the Reynolds plant for Bectel, and did work over the years for Weyerhaeuser, Crown Zellerbach, and International Paper, and many other private interests. George told me he staked the pilings in the Columbia in front of the Weyerhaeuser plant. He also worked on a survey for McCorkle in which he retraced the original 1921 plat and found several of the original corners (per parole evidence from the original owners). George gave his records to the DNR PLSO after he stopped surveying.

C.E. Reynold (PLS 7504)

Reynold did quite a bit of work for international paper and others. Not sure where his records ended up. Weyerhaeuser has some of them.

Albert E. (Curley) Schulz (PLS 1205)

According to Arden Stocks, AE Schulz was a land surveyor who worked in the Cowlitz Area (especially Woodland) in the 1940s and 1950s. Mr. Stocks bought Schulz's instrument and field books after he died. Arden gave the field books to the County. Howard Richardson of Olson Engineering acquired copies of Schulz's field books and surveys from Arden Stocks several years ago, and he created an index of the information. We have digital copies of all/most of this, in our files. At some point, I'd like to have someone go through the records we received from Mr. Stocks and make sure that everything is legible and in the index.

Arden Stocks (Survey Historian/Enthusiast)

According to Howard Richardson and Chuck Whitten, Arden Stocks was a long-time survey researcher in the area, and used to corner search for fun (sometimes with Brent Carpenter). He also collected a ton of unrecorded maps and field books. Mr. Stocks came by my office a couple of times to chat about what he knows and gave the AE Schulz field books and some random maps (by GK McKensie and others) to the County. The field books are already indexed. The maps will be scanned and indexed as we have time.

While he was here at the office, Arden mentioned that he had driven down to Eugene while Claud Davolt was still alive and interviewed him for 3-4 hours about surveys and survey history in Cowlitz County. Arden also said that he used to have a tape recording

of that interview, though he isn't sure where it is at the moment. If he finds it, he said he'll let us have a copy.

Mr. Stocks also used to place little heart shaped (he said they were fishing spinners) with his initials (ALS) stamped on them whenever he found original evidence so he could go back later. He had files of many of these corner searches (most on Mt. St. Helens) that he gave to the County.

Walter W. Trantow (Engineer)

Trantow worked for Longbell, doing mapping and engineering back in the 1920s. Later (about 1931) he was an engineer working for the County Assessor's Office. Sometime after that, he became County Assessor. He produced a 1940 map of Longview/Kelso, showing Long-Bell monuments that has a note about actual survey. He also signed several "Assessor's Plats". No field notes found at Assessor's Office or elsewhere at the County. Will need to check state archives when I get a chance. Would like to find a copy of Trantow's original 1940 map, and all/most of the revisions (to show changes over time). We have a 1966 revision (scanned), and a 1947 revision (hardcopy at County Museum).

Ross R. Vickers (Engineer)

Ross Vickers was an Engineer/Surveyor who working in the Cowlitz County area in the 1950's and 1960's. According to Karl Germunson, his dad (Dorell) used to work with Ross Vickers back in the day, and may have some of his old records. Karl is going to look into this for me sometime. We (Cowlitz County) have a few (though probably less than 10) Vickers maps in our survey collection.

Robert C. Wilson (PLS 5540)

According to found records (mostly recorded plats), Wilson was a private surveyor from Longview in the late 1950s, to the late 1970s. I've seen a reference to one of his unrecorded surveys on 1976 recorded survey by Garry Clarke, but no reference as to where to find it. He might have gotten it straight from Wilson at that time.

Other Agencies and Organizations with Pre-1973 Records (or post 1973 responsibility to file records in the Office of the County Engineer)

Washington State Department of Transportation (WSDOT):

General Records Requests

WSDOT right of way plans are available through the public disclosure request process.

1. Use the Public Disclosure Request Center:
[https://wsdot.mycusthelp.com/WEBAPP/rs/\(S\(3ftqiluvnp3cqtoxbqrliddza\)\)/supporthome.aspx](https://wsdot.mycusthelp.com/WEBAPP/rs/(S(3ftqiluvnp3cqtoxbqrliddza))/supporthome.aspx)
2. Send them an email at : publicdisclosurerequests@wsdot.wa.gov
3. or you can mail or fax your request to:

WSDOT
Records & Information Management
PO Box 47410
Olympia, WA 98504-7410

Phone: 360-705-7424
Fax: 360-705-6808

- 1) Be very detailed in your request
- 2) Make sure to explain that you need the survey field books, monument set records, and any deeds/documents associated with your stretch of road (otherwise you'll likely just get the road plan without any real survey data on it.
- 3) Contact a surveyor at WSDOT if you aren't getting what you think you need.

Turnbacks

Many County Roads were originally granted to the county. Then the road was given to the State for a project. Then some or all of these roads were "Turned Back" to the County. The county has maps and letters of these turnbacks in its files (though not always). You can request this information from WSDOT, and they can usually find it. Again – be specific in your request, and don't give up until you get what you need. The early ones (1940s through 60s) might just be a letter with a hand-drawn sketch showing the section being turned back in red. Some have a WSDOT plan associated with them. Some also have a deed back to the county (usually recorded, but sometimes not). An example of a partial turnback is Merwin Village Road. An example of a full turnback is Westside Highway, north of PH10. These can be tricky to research since neither entity (County or State) may have all the records. The County usually turned all its records over to WSDOT (unrecorded waivers, maps, etc.). They usually didn't get them back when the road came back to them. Usually, you can get these back through WSDOT, but not all of these old (sometimes unrecorded) documents were saved by WSDOT. Also, sometimes the County kept copies (once copying became easier), so the County might have stuff that WSDOT doesn't. Check both places.

Field Books – There are approximately 13 boxes (apple crates and larger) of WSDOT SW WA Field Books. These were reported to have been destroyed by WSDOT a few years ago, but were apparently saved (though some other boxes were shredded – not sure how many). We were given a couple of boxes of WSDOT field books on loan that affect Cowlitz County, and finished scanning them in 2017. Between the Olson engineering WSDOT field book collection, and the WSDOT field book collection, we have 73 field books scanned. There is no index at this time. The books are being referenced by State Route Number and Date. There seem to be missing books for roads that we know they must have surveyed. Probably got shredded. If you see these somewhere, let me know.

Hardshells – These original hardshells show section corner and property corner ties. Unfortunately, WSDOT shredded many of these. The ones they saved are available digitally. I'm trying to get the ones for Cowlitz County, again, since we work with so many WSDOT Turnbacks and former WSDOT properties. I received three of what is

reported to be four CDs for these turnbacks (though they aren't well indexed). Will have to figure this out sometime in the future for Cowlitz files.

For WSDOT State Route Numbers and general information:

https://en.wikipedia.org/wiki/List_of_state_routes_in_Washington

Department of Natural Resources:

Even though state law seems to require that they file their post-1973 surveys in the County Engineer's Office (unless they recorded them with the Auditor), it seems pointless to do double duty, since their PLSO has copies of their surveys and makes them available online (if they didn't record them, which most new ones are).

We have a couple of sets of corner notes from DNR from the early-mid 1970s. Not much else. Again – the vast majority of their stuff seems to be available at the DNR PLSO.

Bonneville Power Administration:

The Cowlitz County Engineer's Office has nothing from them. There are a few old power line maps in possession of GIS and our Museum. My hope is that BPA will complete their online records research site soon and allow easier access to all surveyors. DNR PLSO seems to have several of their older line drawings. I know of no online or easy way to access their post-1973 unrecorded records, other than to call them.

Timber Company Records:

Longview Fiber:

Cowlitz County has a number of Longview Fibre corner records from the 1950s, up until the early 1970s. We would like to scan and index these notes, when we get a chance, but some are pretty hard to read and may take special handling to scan and index properly.

For the moment, Andy Blachly (see below for contact) has access to the Former Longview Timber/Longview Fibre records, since they merged with Weyerhaeuser's Tree Farm.

Weyerhaeuser:

Andy Blachly, Forest Engineer for Weyerhaeuser in Castle Rock is the keeper of survey records up there. He says they have stuff all the way back to the 1930s.

Andy has someone working with him to go through the old survey files to scan and index the records. She will be working with us to scan the larger maps in our scanner here at the office. The idea is that this will be a couple hours a month deal, so it will take some time. We will be adding the scans to our system as we can.

The files are located at the Burma Road address. Andy currently works out of the Longview Office.

Andy Blachly, PE, PLS
Forest Engineer
Weyerhaeuser
Longview Forest Area - St. Helens Tree Farm
PO Box 190 - 500 Burma Road
Castle Rock, WA 98611
Cell and Office 360.770.9712
FAX 360.274.3042

Ryderwood Tree Farm:

Andy Blachly sent their records to DNR PLSO. There is an index in PW files. This included Long Bell Lumber survey notes, back to the 1920s, and International Paper Company information after they bought it from Longbell in the 1960s.

Georgia Pacific:

Andy Blachly sent some Georgia Pacific records to DNR PLSO, around the Mount Vernon area.

Historic Listing of County Surveyors and Engineers:

Previous County Surveyors and Engineers Responsible for Surveys (County Road Engineers who did their own surveying). This can help date undated records. See also list of County Engineer and Surveyor employment dates by Al Hannaford, dated June 18, 1980 (on the server), which gives some document references. I've pulled together bios and other historical data on these people, as available from others. It is here on the Public Works Server: <F:\General Survey\Education and Resources\Cowlitz County History\Cowlitz Eng Employees>

Name	Year	Year	Title	WA PLS#
Peter W Crawford –	1860?	1882?	County Surveyor	
L S Caudle –	1882	1883	County Surveyor	
Samuel G Caudle (Candle) –	1882		Contract Road Surveyor	
Benjamin A Deetz	1883/11	????	County Surveyor	
Benjamin Franklin Jenkins –	1883	1884	County Surveyor	
Benjamin F Ivie –	1884	1889	County Surveyor	
Benjamin A Deetz	1889	1892	County Surveyor	
William Mayer	1891	1892	County Surveyor	
Fred Milton Lane	1893	1896	County Surveyor	
Andrew (Alvin) Bystrom	1897	1900	County Surveyor	
William Mayer	1901	1901	County Surveyor	
Fred Milton Lane	1902	1906	County Surveyor	
Clyde Raymond Bell	1907	1908	County Engineer	
G B Roberts	1909	1912	County Engineer	
Robert Charles Westwick	1913	1916	County Engineer	
Frederick Charles Cramer	1917	1920	County Engineer	317
Ernest A Middlebrooks	1921	1926	County Engineer	206
Frederick Charles Cramer	1927	1936	Engineer in Charge*	317
Frederick Charles Cramer	1937	1945/01	County Road Engineer	317
Claud Olson Davolt	1945/01	1954/01	County Road Engineer	328
Harry D. Martin	1954/01	1963/04	County Road Engineer	No PLS
Claud Olson Davolt	1963/05	1963/07	Interim County Road Engineer	328
Lawrence E. Riedesel	1963/07	1972/12	County Road Engineer	8636
Donald G. Berdan	1972/12	1978/04	County Road Engineer	6388 & 7137
Nelson Graham	1978/04	1983/02	County Road Engineer	No PLS
Ken Stone	1983/02	2003/02	County Road Engineer**	No PLS
Donald (Don) Lee Day	1997/07	2011/11	PLS	34667
Paul Galli	2012/06	2014/12	PLS Consultant	41079
Paul Galli	2015/01	Present	PLS	41079

*From about 1927 to 1937, the County Commissioner Chair was Ex-officio County Engineer, due to a 1926 law that eliminated the elected County Engineer in all but Class 1 and A counties, until 1937, when it became appointed. As far as I can tell, the office functioned essentially the same as it did before the change.

** From about 1997, Ken was both the County Engineer and Public Works Director, and his assistant engineer (who actually did most of the County Engineer work) didn't do his own surveying, so they hired Don Day to do it.

Others:

A.R. Cruikshank – 19?? – 19?? – Deputy County Engineer

F.C. Cramer – 19?? – 19?? – Deputy County Engineer

F.C. Cramer – 19?? – 19?? – Assistant County Engineer

Claud Olson Davolt – 1925-1926 – Deputy County Engineer

Claud Olson Davolt – 1927-1944 – Assistant County Engineer

G.K. McKenzie – Worked in the County Engineer’s Office as Deputy County Surveyor from about 1912-1923 (per Jerry and Hannaford) See surveyor’s record survey 132 – 1913. Was Kalama City Engineer sometime in the 1920s. We received some of McKenzie’s records from Arden Stocks.

Roy Mohr – Assistant County Engineer – 1949 (see CCCJ V21 Pg 610)

W. Muncaster

U.G. Jackson – 191?-1924 – City of Kelso Engineer. Business with Middlebrooks – 1924 - ?? – Diking engineer for several districts – Worked for USACE in Portland sometime from late 1930s to mid-1950s and worked up here that entire time – seems to have done a number of retracement surveys in the area – are his files at the Corps? - 462

E.A. Middlebrooks – Diking Engineer, business with Jackson

George Bradford – 19??-19?? – GIS Land Surveyor

Larry Keatley – Crew – 1966-197?, 197?-20??, licensed later and ran own business around town. Worked with Harry Becker

Harry Becker – Crew – 19?? – 19?? – Worked for Claud Davolt for many years. Had a business with Larry Keatley for awhile (back in the 1970s?).

George Jacob Poysky – 1915 – 1920 – Diking Engineer for most (all?) of the early dikes – had an office in Kelso State Bank Bldg. / it appears he had his surveying done by others (Lane, Jackson, etc.).

FYI – The highlighting and question marks above are to indicate that I still have unanswered questions about some things. Most of my research is typically done during a project, where it is relevant to something the County is doing. As soon as I figure out what I need for that project, I move on to something else. Part of this document is a reminder to myself of what I’ve already done, so I will remember what I still don’t know, so I have something to build on for future projects, or when an answer presents itself (as it sometimes randomly does) and so I won’t have to redo past research.

Jerry Olson’s website <http://www.olsonengr.com/content/surveying-history> (and numerous chats with Ken Stone (Cowlitz County), Howard Richardson (Olson Engineering), Ken Paul (Clark County Surveyor), Karl Germunson (Germunson Surveying), Rich Williams (Gibbs and Olson), Bill Mumma (WSDOT), Kris Horton (DNR PLSO), Bill Watson (Cowlitz County Museum), and many, many others) have been hugely helpful in pulling together this information. Without the community’s research, experience, and insights, I wouldn’t have been able to share any of this information, as the type of information they have put together and have given out freely is just not possible to do on day to day projects, in something less than about 200 years. Thank you!

cc: File