

The regular meeting of the Tippecanoe County Drainage Board met in the County Commissioners Room at 9:00 a.m., on Wednesday, May 2, 1973 with the following members present: Bruce Osborn, Robert Fields, Edward Shaw, A. D. Ruth, Jr., Fred Hoffman and Gladys Ridder.

Minutes Approved Upon motion by Bruce Osborn, seconded by Edward Shaw and made unanimous by Robert Fields, the minutes of the April 4, 1973 meeting were approved as read.

General Business The Board moved to share the cost of the highway on the extension of the Dunkin ditch. Mr. Ruth reported the Friendly Village had promised plans for the proposed water line but as yet had not submitted them. John Fisher, inspector for the county, has reported very poor supervision on the part of the contractor on this project and that a corrugated pipe should have been covered when leaving the project, but because it was not covered had partially filled with mud.

Mr. Hoffman suggested a permit should be required before any one could hook into a legal drain. The Board was much in favor also.

Ditches Referred The Board referred the following ditches to the Engineer for a maintenance fund, The Richard B. Wetherill ditch, Shelby Twp. in Tippecanoe County and Boliver Twp., in Benton County, Peter Saltzman ditch, in Perry and Washington Twps. in Tippecanoe County and Clay Township in Carroll County.

9:30 Maintenance Hearing on the E. Eugene Johnson Ditch The Surveyor read his report and made his recommendations on the Eugene Johnson ditch. He then read a remonstrance from: Ora S. & Mary E. Gish, Allen C. Boots, Bertha M. Criss, Harold E & Mary J. Sipple, Raymond L & Mildred L. Bradley, Otto Steiner and Malcolm Stingley. The basis of their objection was due to N & W railroad's need to construct a tile under their right-of-way to allow use of the outlet. Mr. Hoffman, the County Attorney, said he would contact the Attorney of the Railroad and suggested a postponement of this hearing until these problems could be resolved. Upon motion by Bruce Osborn, seconded by Robert Fields and made unanimous by Edward Shaw the Board moved to continue this hearing in the September 5, 1973 regular meeting. The only two who attended the hearing were: E. Eugene Johnson and Ora Gish.

10:15 Maintenance Hearing on the Martin V. Erwin Ditch The Surveyor opened the hearing on the Martin V. Erwin ditch by reading his report and making his recommendations to the Board. He read to the Board a letter of remonstrance by the Norfolk and Western Railroad stating they could not possibly be benefited by this drain. Mr. Ruth said he felt the acreage we had assessed them was possibly a little high, but that he felt part of their right-of-way did drain to this ditch. Those in attendance were: M. Gleason Morehouse and Walter Shackelford. Mr. Ruth reported that the telephone Company had damaged some of the tile and that he would notify them of same. Mr. Morehouse reported that the outlet was in need of repair and that he and Mrs. Kelly had fixed several tile on their own. Both men in attendance were of the opinion that this ditch was mostly 12" tile although the record shows only 6" tile. Mr. Ruth planned to meet Mr. Morehouse and again walk the ditch and determine exactly what the legal drain included. The Board so moved to continue this hearing next month at the regular meeting.

11:00 Maintenance Hearing on the Lane Parker Ditch The Engineer opened the maintenance hearing on the Lane Parker Ditch by reading his report and making his recommendations to the Board. No one appeared in behalf of this ditch. The farm manager for Edith Kelly Carr, Hugh Pence, was in the surveyor's office on Friday of last week stating that the acreage we had assessed Mrs. Carr was not adequate. He stated that when the soil conservation service rebuilt a portion of the ditch, more of this land was included in the watershed area. The acreage was changed to 152.32A out of a 154.32A tract and 64.809 acres out of a 66.809A tract.

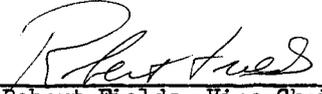
Upon motion by Bruce Osborn, seconded by Edward Shaw and made unanimous by Robert Fields, the Board moved to establish a \$1.00 per acre assessment on the Lane Parker.

Order and Findings Certificate of Assess. After establishing a maintenance fund on the Lane Parker Ditch, the Board signed the Order and findings and the Certificate of assessments.

The Board had as guests six students from the West Lafayette High School government class. They were to observe the operation of the Surveyor's office as their project. Mr. Ruth relayed to them the work and responsibilities of the office.

Upon motion made and carried the Board adjourned.


Edward J. Shaw, Chairman


Robert Fields, Vice Chairman

ATTEST:


Gladys Ridder, Exec. Secretary


Bruce Osborn, Board Member

January 7, 1987

Wednesday, January 7, 1987

The Tippecanoe County Drainage Board regular meeting was held Wednesday, January 7, 1987 in the Community Meeting room of the Tippecanoe County Office Building, 20 North Third Street, Lafayette, Indiana 47901 at 8:30A.M.

Board Chairman Bruce V. Osborn called the meeting to order with the following being present. Eugene R. Moore and Sue W. Scholer Board Member, J. Frederick Hoffman Drainage Board Attorney, Michael J. Spencer Surveyor, and Maralyn D. Turner Executive Secretary, others present are on file.

This being the boards reorganization meeting Bruce V. Osborn ask Mr. Hoffman conduct the election of officers. Eugene R. Moore nominated Bruce V. Osborn as Chairman, seconded by Sue W. Scholer, there being no other nominations Eugene Moore moved to close the nomination for Chairman, Bruce V. Osborn was elected Chairman.

Bruce V. Osborn moved to elect Eugene Rm Moore as Vice-Chairman and Sue W. Scholer Secretary. So carried. Eugene R. Moore moved to appoint Maralyn D. Turner Executive Secretary of the Board, seconded by Sue W. Scholer, their being no other nominations, Maralyn was appointed Executive Secretary. Sue Wl Scholer moved to appoint J. Frederick Hoffman as Drainage Board Attorney, seconded by Eugene R. Moore, Unanimously approved.

Chairman Bruce V. Osborn felt the board should be aware of having unofficial Drainage Board meetings in regards to the Fuji-Isuzu Auto Factory drainage. He suggested that any discussion in regards to the drainage in the area be conducted in an Open Public Drainage Board meeting with notice given to the Public. Board was in agreement. Michael Spencer surveyor wants to request a print-out of the Parker ditch from the Data Processing Department, the Parker ditch is the legal drain which drains to the Wildcat Creek. There is concern in regards to the bottom outlet on the Charles Chamberlin property.

MCCUTHEON MCCUTHEON HEIGHTS SUBDIVISION HEIGHTS

Michael Spencer surveyor presented petitions and paper work which was received from attorney Bob Poynter January 5, 1987. Mr. Poynter wanted the board to formally receive the petitions. Eugene R. Moore ask if they had ever gotten the holding pond straightened out? Michael had one map that showed the whole area, the holding pond is the flood plan area and is off site. It is all included in the easement. The detention pond is not within the watershed limits. This involves the Prairie Oaks Subdivision with an easement going out to the creek which the board had requested. Personally Michael feels more information is needed, a list of all landowners is included as a part of the petition. Easements is a concern of the board. Eugene R. Moore ask if the board OK'd running the street to the creek? Michael stated that that outletted through the detention basin. Reason for that was that it was all coming down through the Prairie Oaks Subdivision. Michael stated we need to acknowledge that we received the petition and paperwork, but more information is needed such as an updated drawing of the plan. The Board acknowledged receiving the proposed petition for legal drain of McCutheon Heights Subdivision and requested the surveyor to respond to them within 20 days in writing, they in turn will have 20 days to respond to the boards request. Preliminary Plans have been received.

TRAIN COE BOND

PERFORMANCE BOND TRAIN COE DITCH

Michael Spencer presented the Performance Bond received from Bill Noland and Sons of Kokomo. Sue W. Scholer moved to accept the Performance Bond from Noland and Sons for the Train Coe Ditch, seconded by Eugene R. Moore, Unanimously approved.

ELLIOTT DITCH

Elliott Ditch

Fred Hoffman ask Michael to set down with him in regards to funds that are available for the Elliott Ditch, a letter should be sent to the Lt. Governor.

MILLER MCBETH HEARING

MILLER-MCBETH HEARING

Michael Spencer requested Mr. Hoffman to read the remonstrances from landowners. The following remonstrances were read and are on file in the Miller-McBeth ditch file. William R. Nesbitt total of 78 acres, 5.41%, Berk Farms, Inc. William E. Shield attorney, 886.11 acres, 45.34%, Harry E. and Charlene Pendleton 13 acres, 0.90%, Daniel, Dudley and Joanne 100 acres, 6.94%, Fifer, John and Joan 127.80 acres 8.87%, making a total of 1,204.91 acres with 67.55%. Property owners present were: Jack Fifer, Dudley M. Daniel, Jim Pendleton, Jack DeVault, Phillip Bercovitz, and William E. Shields, attorney for Berk Farms, Inc. Bill Shield attorney for Berk Farm Inc. ask Mr. Spencer the following questions. What are you planning to do down at the head wall? Plan to dig out from the open ditch, back up to where the tile is washed out, approximately 375', construct a new open channel through tile that it outlets into, then it would run down to the other open channel. Clear off the trees in the first 450' of the ditch. the thicket along the open ditch will not be cleared. (big open ditch). There is more clearing along fend line of Mr. Royer and Jack DeVault. Are you going to put new tile in the 450', answer - NO. Has there been any change in the ditch area in the past year? Reason for asking this is that he will question two(2) of the property owners, Mr. Pendleton(JIM) who has seen the area for 20 years or more. His testimony will be that he doesn't see any drastich change in the area of drainage. Michael ask Jack DeVault in the past 5 years has there been any changes? Mr. DeVault felt there had been, and Mr. Spencer felt possibly there were more tile holes. Mr. Shield ask Mr. Jim Pendleton who was representing his father Harry Pendleton questions. The farm for Berk Farms and their own and had grew up in the area, Mr. Shield ask if he has seen any major changes? He hasn't seen any problems with drainage in the 35 years and have no new problems, they do their own maintenance, which has been paid by the landowners, some has been done just recently. Mr. shield ask Mr. Pendleton if he seen any benefits from the proposed project to any of the land in which he is involved with, he sees no benefit. Not going to effect their drainage. Mr. Shield introduced Bill Bercovitz owner of Berk Farms. Mr. Bercovitz had visited the farm drainage area with Mr. Shields, Mr. Bercovitz stated under the proposal it seems that all the break down is purely per acreage. Answer-YES.this is the way all watersheds are approved. He feels there isn only two (2) pieces of property to benefits from the proposal, if project were done, the allocation of cost certainly should be comparable to the benefit to the property, doesn't thing any consideration has been given for that. He stated he is not for the project, doesn't see any good reason to spend money at this time. If it could be shown that it would benefit or necessary, he would go along with it. He stated it is a punishment at this time, as all these years nothing has been done, everybody has been maintaining their own, why change now. He will abide by the boards

January 7, 1987 Continued Miller-McBeth Ditch

decision.

Bruce V. Osborn told the property owners they need to realize that just because the water leaves your land that doesn't relieve your responsibility, can't work. Mr. Bercovitz stated that cause it didn't affect him, the heck with the other guy. He isn't saying that. Regardless of the law there is such a thing of being a good neighbor. This has been followed over the years. It's his concept that nothing has been done there by the County in memory of any one around here. Mr. Osborn pointed out that it was attempted in 1975 to put a maintenance on the ditch, at that time there was remonstrances and the board didn't do it. The ditch does not belong to the County, it belongs to the property owner, all the County does is administer the ditch. Michael Spencer stated the only way the board could do anything for the property owners would be to have a maintenance fund. Mr. Shield stated let the land that was going to be benefited pay the fee to get the property in shape, if it is a necessary thing. Mr. Shield stated he isn't a ditch expert, but other than looking nicer, he feels it will not change anything.

Jack DeVault stated he started on the ditch back 20 years ago to get something done, nothing has been done. Lofland ditch in 1975 was brought before the board, and at that time the Miller-McBeth branch be included, but property owners turned it down at that time. Mr. Osborn ask if the property owners would consider abandoning the ditch, maintain themselves, the property owners have that option. Would be cheaper for all concerned, if the property owners can get along. Would vacate the drain, would be a private drain, this would vacate the easement along the drain. The remonstrances read today takes alot of acreage away from maintenance, be stiff to put maintenance on. Jack DeVault stated that Mr. Bercovitz's father was for maintenance funds. Mr. Bercovitz ask if the County was against payment toward the ditch? The board stated this is how it works there is no maintenance f, if the property owners haven't agreed to establishing a maintenance fund for a watershed area, then no payment can be made to the property owners, it isn't that they are against payment. Bruce V. Osborn ask if the property owners were saying that the outlet need no work done on it? Question of Mr. Shields' is will it be a noticeable change in the drain? Mr. Bercovitz said that if they would have come to him five(5) years ago he would have had no problems of going along with the drainage board, but with the price of crops and so many changes he can't go along with it. A dead figure can't be put on the project, can run into some big money, comparing what they have spent this past year in ditch repair \$2,700.00 and it doesn't look as big as the project presented, and no assurance that there will be any benefits. Getting along now why burden the property owners now, in two years if there is a problem, then let's talk about it. Eugene Moore ask if nothing is done today, in the near future will we block up right of way? Answer NO.

Mr. Hoffman pointed out however if they ever want anything done it will take time for the assessment to raise any money, if they are talking about two(2) years from now it will take another two(2) years before anything can be done on maintenance.

Jack DeVault's concern is if more water gets ditched in the worse is will get. Is this legal? Mr. Hoffman stated they can't legally hook on without permission of the surveyor, Micheal stated that as long as it isn't any larger than a 12' tile the board doesn't have much to say. Mr. Hoffman stated they still need the permission, size of tile will have to be in compliance and hook on to a mutual drain regardless of size. Bruce V. Osborn ask if they wanted to abandon the drain? The answer is NO, they do not want to abandon the drain.

Eugene R. Moore moved to turn down the request to establish a maintenance fund for the Miller-McBeth drain, seconded by Sue W. Scholer, unanimously approved. Mr. Osborn hopes the property owners can get together and do it on their own.

Sue W. Scholer ask if they could come back and ask for a smaller maintenance fund to put on to build up and be used? Smaller rate they would not get much done. They expressed their thanks to the County Surveyor as he has been very helpful.

BRAMPTON APARTMENTS-Dennis Grump engineer representing Cardinal Industries, Inc. for Brampton Apartments located on Haggerty Lane, East of Carriage House Apartments. Last year they came before the board requesting a preliminary approval on the over all project, some suggestions were made with Michael Spencer and George Schulte's help they have revised the drainage plan for the Phase I for which they are asking for final approval on only, there are two(2) remaining Phases to the north of the property. Phase I consists of 4.5 acres, at a later date they will be asking drainage approval. The overall area is 11 acres. Proposal was for a large detention area along Haggerty Lane, this has been revised to smaller detention area draining and detaining the water for Phase I only, then providing additional detention area for future Phases. They are exiting into Branch#13 of the S.W.Elliott ditch, they had ask to relocate the Elliott drain across the frontage of the property, for further use they ask to relocate parallel to Haggerty Lane and to replace the existing 14" tile with a 15" tile because of not being able to get the 14" tile. Bruce V. Osborn ask how far off the right of way are they? They are off 13' of the right of way line. Mr. Hoffman ask where the 15" tile went into, it goes into 14" tile, there will be no problem as it goes into a manhole. An easement has been platted, this was recommended by Mr. Schulte and Michael. Sue W. Scholer ask how much right of way do they have? They are dedicating and additional 40' of right of way, would be 55' off the center of the road. Proposing to reduce the easement on the north side of the drain, the easement will be a part of the plat that is being reviewed by Sallie Lee in Area Plan. Mr. Hoffman ask how much it would be on each side? It will be approximately 44' from the center line of the tile on the north side and 75' on the south side and the road would lie within the 75' on the south side. This is a closed drain would be 55' from highway. 28' to top of bank-top of bank leaves 30' center of ditch to top of tile. Replacing a new shoulder widening Haggerty on their side to County specifications, 16' of payement on their side, still have a good 20' to where the top of bank would start of the proposed ditch. Sue W. Scholer ask how close the buildings were to the center line? Answer-84'.

BRAMPTON
APARTMENT

The developer would like to start working soon, have gone through approval in Area Plan, they have started to widen Haggerty Lane and are to the point of getting permits for foundations. They can't go any further till they get those and the drainage board approval, then the recording of the plat is the last two items on the list before the building commission will let them go ahead and pour foundations.

Mr. Grump ask if it would be possible for a conditional approval till George Schulte County Highway Engineer has a chance to review the road? The developer does want to continue work at the site in order for them to develop on schedule.

After much discussion the board decided that they need to know what is going to be proposed in regards to the Highway with the new Auto Factory coming in, they will be meeting Monday, January 12, 1987 with the Highway Department, and would like to recess this meeting till Monday, January 12, 1987 at 1:00 P.M. in discussion of the Brampton Apartments.

WOODBERRY WOODBERRY SUBDIVISION PHASE I AND PHASE II

UBDIV
HASE I
ND II
Robert Gross surveyor with Stewart Kline and Assoiates representing Woodberry Subdivisio, LeRoy Moore developer, petitioning to vacate and asking for approval of drain easements. Lot 24 and 25 in Plan Development were recorded a different way, therefore they are requesting vacation of the easement with the original plan. Original plan had a detention basin that outletted behind the other lots. Michael Spencer stated the plan being presnted is a better plan. They have taken out detention pond behind houses and taken up one whole building lot for detention pond, they now have a 24' outlet structure goes into side ditch down to main detention basin, then the Wildcat.

Eugene R. Moore moved to vacate the original easement plan for Woodberry Phase I and Phase II, seconded by Sue W. Scholer, unanimously approved.

Eugene R. Moore moved to approve the new drainage easements plan presented for Woodberry Phase I and Phase II, seconded by Sue W. Scholer, unanimously approved.

Letter received should be recorded with plat of Woodberry Phase I and Phase II. Copy of letter is on file.

ELLIOTT ELLIOTT DITCH

on his property
Richard Smith was in stated that the Elliott ditch is plugged up, Mr. Moore told him he would have to clean it out himself, since there were no funds he would have to pay for it and hold the bill, then present it when there were funds, he would be paid then.

Sue ask if Michael had done anthing in regards to the Task Force of Elliott-YES

The Board recessed till 1:00 P.M. January 12, 1987 for the Brampton Apartments.

TIPPECANOE COUNTY DRAINAGE BOARD MEETING

MARCH 4, 1987

The Tippecanoe County Drainage Board met Wednesday, March 4, 1987 at 8:30 A.M. in the Community Meeting room of the Tippecanoe County Office Building, 20 North Third Street, Lafayette, Indiana 47901.

Chairman Bruce V. Osborn called the meeting to order with the following being present: Eugene R. Moore and Sue W. Schlor boardmembers, J. Frederick Hoffman drainage attorney, Michael J. Spencer surveyor, George Schulte county highway engineer and Maralyn D. Turner Executive Secretary, others present are on file.

CROXTON WOODS

Robert Grove representing Phyllis Croxton, requested Item I. The condition of approval in construction plans in offsite inlet to the tile. This has been submitted to Michael Spencer surveyor, the drawing of the proposed offsite inlet, which will meet the condition. They are proposing to put inlet structure right on the tile behind the Flower Shop. This is not on the owners property she will have to obtain an easement from the other property owners. Mr. Grove doesn't think there will be any problem.

Item II. Condition was creating a legal drain. There are some difficulties with this, as these people are not going to create a legal drain through their building; therefore, they are asking some alternatives, one would be to create an easement without putting the building in a legal drain or easement. Michael thought it had been discussed at previous meeting, that since there would be no legal drain all the way to an outlet they were going to address it on a self maintenance deal in the subdivision. Mr. Grove said this would be an alternative. There would be more of a watershed area outside of the subdivision. A large section would be picked up along the State Highway where they are coming down the hills. An easement would be provided all the way through to the detention basin, if this was sold. (Speaking of the area joining the subdivision). Easement could go through undeveloped portion and whoever would sell that property the easement would go with it. They would always have that option. Mr. Grove felt the property owners wouldn't argue with that as Croxton Woods is providing them with a safety valve. Mr. Hoffman asked how wide is the easement? Mr. Grove stated at this point there is none. Mr. Hoffman understood that they were going to put one. Question: Homeowners going to own? Right, at this point the easement would be 25 to 30 feet. Problem is they can't get from the top to the bottom, but still want to protect the flow line. Mr. Osborn felt the County would be better off staying out of the drainage. Mr. Hoffman felt they should have a public easement on there so the Homeowners Association can take care of it, instead of them coming in and wanting the County do something. Michael Spencer felt all plans submitted were OK, the only thing he ask that they get an easement and get a written covenant saying they are going to create a Homeowners Association. Mr. Grove ask if the outlet was the only conditions? To the knowledge of Mr. Spencer this is correct, however he will check and if there is anything else he will let Mr. Grove know. There will be three easements, one along the property lines, piece to get into the inlet and one to get all the way across down the property. Mr. Osborn ask if the holding area was OK? Yes.

Eugene R. Moore moved to give approval to plans submitted with the three easements and the necessary covenants submitted to the surveyor and the drainage attorney for their approval, seconded by Sue W. Scholer, Unanimous approval given.

PARK EASTPARK EAST

Robert Grove representing Park 65 Corporation requested Conceptial approval of drainage plans for the project known as Park East. Property is located Southwest of Intersection of I-65 and State Road 26 East all the way to Treece Meadows down to McCarty Lane. The area has been rezoned up to 1,000 feet from McCarty Lane. They are looking at a 3 area Phase project as far as drainage. Phase I area outlets through 2-40X66" cross pipe under State right of way. Part of the problem in the area at the present time is that it is an agricultural type drainage, the inward elevation of the pipes is 654, the elevation in the area is 666, there are cattails in the area and has slow flow situations all the way down to the outlet. They first thought of using the outlet, looking at how it affects the other areas 3500 feet away ran into problems with grade running through a storm sewer system makes it worse. Owners have committed to put another pipe in which would be 4 foot lower than the pipes there now. Several reason for this. 1. Can better serve the area,

it allows to take approximately 20 acres of area which would be going into the Treece Meadows system. Taken through the First Phase handling through the detention basin and outletted to the 48" pipe. Michael ask, why? They are trying to develop in some reasonable fashion from the economic stand point. They want to keep it in packages so they can handle the area. Phase I will help Treece Meadows drainage system, if Phase III was never built they have done something for the area by dropping the outlet four (4) feet that gives a four(4) foot storage in the basin, which amounts to an overflow situation, they are not using that other than for an emergency overflow. The system will remain intact, they are not disturbing it. If the two pipes are running full they might carry anywhere from 160 to 180 cfs. Phase I consists of 145 acres, they anticipate 395 cfs, 100 year storm event coming into the basin with reduction to 80 cfs outlet to the 48". Another complication of Phase I is that there are two legal drains, one goes dead center in Phase I a commitment for 9 acres is on at the present time. The other goes where the two pipes are now. Legal drain would have to be vacated in developing the first Phase. Before development could be done in the other area the second legal drain would have to be vacated. The legal drains would have to be replaced with storm sewer system. Phase II consists of 240 acres which goes almost to Treece Meadows. They are proposing one large detention basin with a new outlet under I-65. Analysis of the area they would want to come through the basin with storm sewer system before getting into the final analysis they would want to reduce the size of the system. Michael ask if it would be a new pipe under the Interstate? Yes, it would be a 48" pipe. This would be looking at 470 cfs reduced to 80. Phase III is tributary to the Treece Meadows drain. Plans would be to go through the area and plug all the connections that go to Treece Meadows drain, Treece's main would be routed through the basin which would have a new outlet upstream water would go through the Treece Meadow system which has always been a problem. There is 20 acre feet of storage and an outlet of 42" maximum flow of 60 cfs. Basically there are 520 acres of all three discharges there would be approximately 220 cfs, .46cfs per acre. This is just a Conceptual plan, they haven't gone through any computer program that show any different rates. They are just asking for Conceptual approval of Phase I and here to answer any questions the board may have or any changes the board wants to see done. The way it is being developed they have a road system which may develop into two culdesacs this is not tied down till each parcel is sold at that time they will know where lot lines are. They are just looking at the over all area.

George Schulte had questions in regards to the runoff north of Treece Meadows. Mr. Grove stated at this point that area is out of their control. At one time they did approach the people about coming into the whole project. They will have to outlet to Park East system, but would be held to the requirements of the onsite storage if they were included in the plan.

George Schulte stated that the problem now in that area is the discharge from that area. Originally the complications had not been considered, Michael agreed, he stated the ditch on north side of Treece Meadows goes over and picks up an area of Caterpillar and side ditches. Michael just wants them not to forget all that water. Mr. Grove stated that they have the outlet proposed now to just control their runoff. If they know they have X number coming through they can enlarge and let it go through and even store. Right now they are stretching 20 acre feet just to control what they have another pipe can be placed, however he doesn't think they should be responsible for their storage. George Schulte again stated the concern of the board is to make sure the people on the offsite have a positive outlet so they can get through without impacting Park East and not to impact Treece Meadows any more. George Schulte ask what the plans were for south of McCarty Lane. Michael Spencer ask how they were going to hook in? Plan now is to cross the road that goes directly west. They will be handling everything on the north side. Michael wants to check the watershed map he thinks a little on the south side of McCarty lane goes to the north in the Ross ditch. Eugene Moore ask if they were taking out of one watershed and putting into another, is this a problem? Mr. Hoffman stated this is OK as long as a burden isn't put on the people below. Question: Nine acre piece, where are you going with the existing tile? They had talked with Mr. Hoffman in regards to the two outlets under 65, they plan to reroute it. Mr. Hoffman said the board wouldn't care as long as they had an in go and out go and where they ran it through the area didn't make any difference. Michael ask how soon they were going to come back with the first section? Mr. Grove stated that it will be right away depending on the out come of today's meeting and approval. Michael ask if the pipe would start underneath the interstate to provide themselves with an outlet? NO. Michael ask if they had started getting their permits from the State. Question was ask how far does the Ross drain go? Goes just a little south of McCarty Lane, at least that is the watershed area. Mr. Osborn ask George if he had any input. Mr. Schulte feels that area three really needs to have a sit down conversation and discussed thoroughly as it is a problem area. Area I and II he doesn't see any problems. Area III is a problem and it's going to be there until it is resolved. Developer only asks that the other landowners that are involved in Park East project is that they understand what Park East is trying to accomplish here and not expect to have a free ride. Park 26 wants to resolve the problem too. George's concern is that the offsite does not have a positive outlet. Unless Park East makes an allowance for the offsite to come into Park East system they are going to have a very large system of their own, they need to start evaluating whether it is better to provide a positive outlet for all that offsite (an open channel) or make system big enough to handle till the area is developed above.

Don McLaughlin a partner in Park East stated that Area III will be the second Phase developed. If things go the way they expect it to some of the improvements would be going in in 1989-1990, northern area will develop first then to the four lane developing toward the southwest.

Mr. Hoffman informed the board that he represents one landowner in the area, he felt he did not have conflict of interest. The board saw no problem.

Sue W. Scholer moved to give Park East approval to their Conceptual Drainage Plan as presented and that the surveyor see that a meeting is held to discuss Area III drainage, seconded by Eugene R. Moore, unanimous approval was given.

SUBARU-ISUZU AUTOMOTIVE

SIA

Pat Long planning associate, and Steven Gress engineer involved in drainage and other aspects of the site design. Mr. Long stated they are here to discuss the plant site and ask for approval for temporary drainage for construction phase. A full set of plans have been presented to Michael Spencer, the plans included the drainage plans, discussion was on temporary construction drainage, basically drainage will not be changed on the site from current drainage no water will be discharged off the site, the site is mostly self contained and the plan to keep it that way until they have approval to discharge water into the legal drain. They are taking the 50' square French drain and expanding it to a 1600' x 250' French drain, this will be pond #4, this will not alter drainage on the site and it's affect on the surrounding area. They will be draining the existing lakes out there (pancake lakes), they will be pumped dry into onsite drainage, the two ponds will be filled up. It is felt that drainage problems with the Town of Dayton will be resolved.

Mr. Long was open for question.

Bruce V. Osborn ask if the drainage plans were for just site work? Yes, this is just earth moving, no building. Only involves the roads surrounding it. There will be parking area during site building. RQAW is not involved in the design of the Parker legal drain. Midstates Engineers was hired by the State to do the Parker drain. Once permanent drainage approval is given they will go back in and line all four basin. Until that time they are leaving them with a granular base, alot of seepage can be expected, the site is going to drain just like it has. Instead of having the 50' square hole they will have four good sized one. Bruce ask if they are going to contain all the runoff? Yes, everthing will be contained, this is adequate. What storm event? Two year. George Schulte said one concern maybe siltation, basin will plug up pretty quick. George doesn't know how they are going to control sedimentation, but if they go into those basins problems will occur. Mr. Gress stated they calculated 70 acre feet for runoff of site, this would go into pond. George ask if they had looked at their permeability of granular sub straita to determine the rate the water will percolate into ground.

Mr. Osborn ask how long will we see temporary drainage? Till this fall. They have talked with I.E.D.C. and Midstates in regards to the Parker ditch. This lands on the State on how they get the Parker ditch approved and upgraded. No Industrial waste will go to Parker ditch, it will go to the Lafayette Waste System. All flow is monitored. Parking lots and roof runoff will go to the Parker only.

Mr. Osborn ask about liability. Michael Spencer requested this be in writing with a seal. Mr. Long assured the board that RQAW wants the system to work, therefore, everything is being checked in detail. Final plans have a baffle on pond four (4), so if there is any accident it will catch the oil.

Bruce Osborn ask about inspection when they start reconstructing Parker ditch. The board requested a County official be present when this starts. The board again stressed they wanted Liability backing from RQAW.

Betty Newton property owner in the area was concerned about the pancake lakes and compaction. She was assured there would be extensive fencing around the site while construction was going on.

Eugene R. Moore moved to grant approval for the temporary drainage for site work only, and that RQAW present in writing their liability responsibility, seconded by Sue W. Scholer, unanimous approval was given.

OTTERBEIN OTTERBEIN DITCH DITCH

Michael Spencer received a petition February 9, 1987 requesting Reconstruction of the Town of Otterbein Ditch. He hasn't been able to get to Benton County to get the list of property owners affected. He isn't sure if we have 10% of the landowners in Tippecanoe County, he would guess Tippecanoe County would have more than half by looking at the map. A letter has been sent to the Benton County Surveyor asking him to have their board to appoint board member so that a joint board can be formed. Mr. Hoffman stated they won't have a board meeting until April 1, 1987. Mr. Hoffman stated Tippecanoe County only needs to appoint one member as they already have one member. Bruce Osborn moved to appoint Sue W. Scholer to the Otterbein ditch board and Michael Spencer Surveyor, seconded by Eugene R. Moore carried. Those representing Tippecanoe County will be Bruce V. Osborn, Sue W. Scholer, and Michael J. Spencer. This is Sue Scholer's district.

KIRKPATRICK OPEN DITCH KIRKPATRICK RICK OPEN DITCH

Michael Spencer received petition to establish a maintenance fund for the Kirkpatrick Open Ditch. The ditch starts in the Town of Kirkpatrick in Montgomery county flows north into Wea Creek at 1300 South Road, east branch of Wea Creek. This has been on ASCS(their own district), they are having trouble getting funds in, however, they have \$9,000.00 plus in a fund. Mr. Hoffman ask if it was a voluntary thing or established under Section 13? Michael stated that it is a voluntary. Petition was signed by 62% of the landowners. Michael had written Montgomery County asking them if they wanted to form a Joint Drainage Board. They replied back that they did not want to form a Joint board. Mr. Hoffman stated Montgomery County should be a part of the board to protect their landowners. When Michael has time he will go to Montgomery County to get a list of property owners.

BRITT DRAIN BRITT DRAIN

Michael Spencer wanted the board to know that in December 1986 he did receive a Trust Agreement for the maintenance of the Britt Drain. All was executed properly. They are in the process of taking bids to get work completed that needs to be done toward maintenance.

S.W. ELLIOTT DITCH ELLIOTT DITCH

Michael Spencer submitted a Draft Proposal for the Study of S.W. Elliott ditch. There are some changes that need to be done in the letter as soon as this is done they can be advertised.

Question: Whose going to pay for it? General Drain Fund. Mr. Hoffman checked this out and said it could be done , then reimbursed at the time of reconstruction. Mr. Hoffman had a call from Rick Steiner a representative of the Indiana Employer Development Commission requesting a letter letter be written to the Lt.Governor in pursuant that they be ask to be on the Study Committee for the S.W.Elliott ditch. Mr. Hoffman talked with Mr. Gordon Kingma and felt this should be done. Mr. Steiner and another representative will be attending the next study meeting.

Allen Egilmex, Department of Highway Supervisor, was present. Mr. Osborn ask him to come up as he would be involved in the study of the existing 38. Bruce ask if any money was coming from Industries? Not at the present time. The Department of Highway have to find out what will drain into Elliott ditch from 38. They are planning to have the Interchange drain into the Parker ditch. Originally they had planned to drain into the two ponds just off I-65. They have been talking with RQAW in regards to the Interchange. Problems they are having, any ditch work they have to do along I-65 has to go through Federal Highway Administration. It will involve alot of additional right of way and reconstruction from SR 38 to 200 South because the side slopes have to be flat. Temporarily they are talking about going on the west side of the Interchange with drainage. State Rd 38 from the west ramp Intersection the water drains into the Elliott ditch now. With the preliminary cross sections they came up with it appears to be a flat ditch with a .2% grade all the way to the Elliott ditch. Problems with Elliott ditch he has heard second handed that it is over capacity;therefore, whats done here will affect highway improvements. They are trying to get an urban design cross section on State Rd 38 using curb and gutter and storm sewer system. F.H.A. told them not to bother writing a letter to this affect as they have to go with 65 mph design which would mean an open ditch south under new highway. Michael ask if they would present their study of the ditch so the County knows how it is going to

affect the county? Yes. if they would run ditch straight all the way on the south side the ditch would be 10-12' deep(open ditch) without using a cross pipe. Using cross pipe depth would possibly be 5-6' deep. Question was ask when was the Elliott ditch notices going to go out? Michael told the board whenever he has the time to get all assessments check and when they are ready to go out he wants them done properly. Time and Help is the factor. It was suggested that in getting help Dan Ruth be considered as he is knowledgeable of the assessments and the system. Michael wants them done right. He was ask how much time it would take? After much discussion, Michael pointed out that he has petitions for Branch 13 this is another time consuming project. He is concerned about the other two separate drains down Creasey Lane.

Sue W. Scholer moved because of the urgency of the Elliott ditch project that an emergency be declared. Money needs to be obtained to pay for extra help in getting notices out for the hearing money to be taken from the General Fund #95, seconded by Eugene R. Moore, Unanimous approval given.

In looking over the Draft Proposal changes need to be made. Michael and Mr. Hoffman will make changes in wording and the area of study. Time set for proposals to be in April 1, 1987, 120 days. Mr. Hoffman felt that the study should be environmental impact all the way to the river. Wording should be Environmental Assessment.

Sue W. Scholer moved that advertising be made and proposal requests be mailed out for Elliott ditch drainage study as reworded by Michael J. Spencer and Fred Hoffman, to be due 9:00 A.M., April 1, 1987, seconded by Eugene R. Moore, unanimous approval.

There being no further business the meeting adjourned at 10:35 A.M.

Barry V. Miller

Sue W. Scholer

Eugene R. Moore

ATTEST: *Maralyn D. Turner*
Maralyn D. Turner
Executive Secretary

May 6, 1987

TIPPECANOE COUNTY DRAINAGE BOARD MEETING, MAY 6, 1987

The Tippecanoe County Drainage Board met Wednesday, May 6, 1987 at 8:30 A.M. in the Community Meeting room of the Tippecanoe County Office Building, 20 North Third Street, Lafayette, Indiana 47901.

Chairman Bruce V. Osborn called the meeting to order with the following being present: Eugene R. Moore and Sue W. Scholer Boardmembers, Michael J. Spencer Surveyor, George Schulte Highway Engineer Frerick Hoffman Drainage Attorney, others present are on file. Sarah Brown Acting Executive Secretary.

BUCKRIDGE PART II
PART II

Buckridge Part II Preliminary. Robert Grove made the presentation. Mr. Grove first stated that there had been an error in the original report. The first paragraph states there are 12 acres and it should have been 27.

There will be a series of basins along the PSI power line easement, 100 feet wide and 50 feet in each of the back yards. He feels like objections to back yard storage in the past does not exist in this case. Even if they own the property, there is a permanent easement that can't be built on. They can mow it and it will be for their use. PSI'S main concern is that their access is not disturbed if PSI tears it up. It isn't PSI's liability. They will try to keep the basins as shallow as possible. The first basin will take the bulk of the developed area flow, reduce it slightly, and pass that on to the next basin which would pick its adjacent area flow, which would restrict that even more, pass on to the third, which would pick up a small area and restrict the flow.

Starting out with 12 cfs discharge 975 & 3 a basic system. Instead of one large storage there would be smaller ones. The type of restriction is to go down straight. The way this works is with a 100 year storm if the system was full you would have 1 foot of differential height of water levels in each basin and that would be the controlling force on the outlet. The 3 cfs discharge your have is based on the 27 acres that would be on 13 cfs development flow. The developer has agreed if the backlot storage or storage/easement is a problem, he would put the maintenance in a Homeowners Association and take the responsibility off the Drainage Board. Commissioner Osborn inquired as to how many lots there are in this part. Mr. Kovich answered 31. There would be quite a bit of the areas run off directly to the side ditch.

George Schulte said he understood there was a problem in the lower area. Mr. Kovich replied, "The only time it blew out was right after it was put in. They poured the concrete about 2:00 o'clock and there was a big rain which caused the blow out."

Fred Hoffman inquired as to where the water went after it hits the side ditch. The reply: It goes across the road and through the pipe down the ravine and on to the Wildcat. That is no change from where it goes now.

Fred Hoffman asked if the basins in the people's back yards would be grassed, and what is going to happen when the power company wants to get in there after a rain and they're full of water. The reply from Mr. Grove was: "it takes a matter of hours for it to get out of there".

At this point, Mr. Hoffman inquired as to what happens if a wire goes down in a storm. Mr. Grove felt there was no difference as to wire falling on wet ground, Mr. Hoffman explained that the ponds were an attractive nuisance for children and this would cause a great deal of liability to everyone involved.

Sue W. Scholer inquired if the person contacted at PSI had the authority to make that decision and Mr. Grove replied, "He did after checking with Corporate Headquarters and at this time they only have their contracts approved." Mr. Grove further states they will not take any liability for damage they do to the system after it is built. The Developer agreed to that. Sue W. Scholer asked where they stood on the legal drain. Mr. Grove replied they had submitted all petitions and they've set the hearing.

Michael J. Spencer inquired if they had the before and after development calculations to which Mr. Grove replied he should have the breakdown by basins on materials handed out. Michael then inquired about the design for the pipe structures for under the roads. Mr. Grove replied he did not have them completed.

Sue W. Scholer asked if the Homeowners Association was in place to which Mr. Grove replied in the negative. She then inquired as to how the Association will work in the future. Mr. Hoffman stated they didn't always work well. At this point, Mr. Hoffman brought focus to the liability. Mr. Grove feels that the attorneys from PSI need to contact Mr. Hoffman to discuss the point in question.

Bruce Osborn asked if the County could be given relief from the liability to which Mr. Hoffman replied they probably couldn't.

Sue W. Scholer made a motion to postpone the preliminary decision on Buckridge Part II until the attorney has an opportunity to talk to PSI representatives, seconded by Eugene R. Moore. Unanimous approval.

ASHLEY OAKS

Mr. Osborn then called for the representative for final approval for drainage of Ashley Oaks. Mr. David Best of BDA Corporation, came forward and introduced himself. The project is 128 units of multi-family dwellings. Their area is part of the Britt drain, which had previously been approved. 7.5 Acres of Charter Hospital property is apart of this drainage area. They drain into the detention pond, out of the pond then south into the sewer system, so that makes 7.5 acres cut off of the original area. Mr. Best feels they have a couple of storm sewers that meet the requirements. Calculation have been run in order to satisfy BDA Corporation. The discharge into the 18-inch pipe does not exceed the original design. Revisions to the outer limits of the system have been made to take care of buildings and parking area. At this point, Michael J. Spencer states they do meet the original design release rates that were set for the Britt Drain. This is in the City, but drains into the County.

MAY 6, 1987 continued - Ashley Oaks

Michael J. Spencer stated he believes work needs to be done soon on the Britt Drain. There are several new building projects going on and the drain needs attention before much more goes on. He stated although it is not a County Drain, Building Permits can be held up until something is done. Joe Bonner, lafayette Bank & Trust, is their Trust Officer.

Mr. Best injected there is money to do the work and the Maintenance Agreement does protect the County.

At this point Eugene R. Moore moved to approve the Drainage for Ashley Oaks, seconded by Sue W. Scholer. Motion Carried.

SIA

S.I.A.

Chairman Osborn then recognized representative from SIA, Patrick Long from Reid, Quebe, Allision & Wilcox, who did the engineering design of the drainage on the site, came forward. He states they have submitted a letter to the Indiana Employment Development Commission requesting they submit a letter requesting a variance of the drainage board to appropriately drain the site. The current system is self contained and is inadequate. They have designed a system that would retain the 100 year storm event and release it at the rate of 180 cfs into the Parker Watershed. Steve Gress, also with RQAW, came forward to answer any questions and present their plan. He explained the areas of surface run off one to Parker and the other to Elliott Ditches. The retention pond system consists of four ponds, which eventually drain to the Parker ditch. They are projecting based on this development of a 10 year development storm, then out flow to the Parker Ditch. Easement will be approximatley 82 cfs surface run off. The actual acres of drainage is 719 acres. If you use the rates on a per acre basis on a 10 year storm it would be .11 cfs per acre, which is low for 100 year event, .25 cfs per acres, which also is low.

Attorney Hoffman inquired if there would be only one pipe to take this off, but Mr. Gress said it was actually a double pipe. Michael J. Spencer injected there would be only one pipe to the Wildcat. The pipes will be 66 inches.

Michael J. Spencer reported he had a copy of the letter from the Donahue & Sorenson, that confirms their communication with the down stream property owners. They are asking permission for Mid-States Engineering to go on their land and do actual field work on site. They hope to hvsve the property owners in to a meeting with the Engineer from Mid-States.

SHERWOOD FORREST ESTATES

SHEROWD FORREST ESTATES

Chairman Bruce V. Osborn then recognized Robert Grove, who was seeking Preliminary approval for Sherwood Forrest Estates. The proposal is for an 11-acre development for 14 single family residential lots. They feel they will need a half acre for one retention pond. This system ties in with the Wake Robin system, then over to the pond on the Purdue Farms. There will be a shallow dike, meter the water out 12-inch pipe with a rate of 4 cfs. They anticipate about 20 cfs after development, 100 year storm. Some areas will drain off direct.

S.W. ELLIOTT DITCH

ELLIOTT DITCH

Michael J. Spencer reported they have an agreement for Engineering Consulting Service on S.W.Elliott Ditch with Chris Burke and Mark Houck. Mr. Hoffman advised that a paragraph dealing with strikes and walkouts be omitted from the agreement. Mr. Hoffman feels they should submit another contract with the modification. Sue W. Scholer made a motion to select Chris Burke to do the preliminary study on S.W.Elliott Ditch, seconded by Eugene R. Moore. Motion Carred.

In order to bring the Board up to date on S.W.Elliott Ditch, Michael J. Spencer reported the assessment lists and notice of public hearing are being printed by the Data Department. The meeting will be June 11th at 1:00 P.M. Questions and Answer period. The hearing will be at 7:30 P.M.

There being no further business, meeting adjourned.

Bruce V. Osborn
Bruce V. Osborn, Chairman

Sue W. Scholer
Sue W. Scholer, Boardmember

Eugene R. Moore
Eugene R. Moore, Boardmember

Attest: *Maralyn D. Turner*
Maralyn D. Turner, Executive Secretary

The Tippecanoe County Drainage Board met Wednesday, June 3, 1987 at 8:30 A.M. in the Community Meeting room of the Tippecanoe County Office Building 20 North Third Street, Lafayette, Indiana 47901.

Chairman Bruce V. Osborn called the meeting to order with the following being present: Eugene R. Moore and Sue W. Scholer Boardmembers, J. Frederick Hoffman Drainage Attorney, George Schulte Highway Engineer, Michael H. Spencer Surveyor, and Maralyn D. Turner Executive Secretary. Other present are on file.

PARKER DITCH

PARKER
DITCH

Richard Stenner representative of Indiana Department of Commerce and Indiana Employment Commission. Indiana Development Commission is developing in conjunction with SIA site in Sheffield Township in the Parker Ditch Watershed area. He had nothing formal for the Drainage Board to be presented or requested. The commission is working with engineers in

JUNE 3, 1987 continued- Parker Ditch

regards to the drainage for the site. Most of the drainage runs in an existing legal drain and others are designed to necessitate creating another legal drain, however the designs are not completed, they are not sure of the funding or the funding process to be used to pay for the construction. He stated, Indiana Employment Development Commission is landowner, is ultimately responsible for the drainage of the site and is satisfying the Drainage Board that no other property owner will be damaged. They will not shirk that responsibility. He was willing to answer any direct questions.

Fred Hoffman, drainage attorney stated he has been hearing that they wanted to have the drainage in effect by December 1987, he feels that there is no way this can be in effect by that date, as no action has been taken to establish a new legal drain. Someone has to file a petition, Mr. Hoffman read Indiana Code 36-9-27-54. Mr. Hoffman pointed out that this will take time, hearing, easements, and remonstrances. If they plan on having a drain they have to get a petition on file, this is first, he had mentioned this to the Employment Development Commission several months ago, it seems they don't realize the statutes that have to be applied by.

Bruce V. Osborn ask about the administration of the grant. Mr. Hoffman had discussed with Mark Davis. Mr. Davis had said we could contract for the administration of the grant. Mr. Hoffman's concern is, we need to have someone hold us harmless in case the Federal Government comes back later and says the money has been misused and would want us to pay back, when your talking about 3 million dollars this would create a problem. This wouldn't be fair to the tax payers if we would have to pay back. The state needs to come up with something to protect the county and tell us that we will be held harmless in case of improper use of the grant money.

Mr. Osborn ask if they couldn't take the grant themselves? Answer-Can't. Reason, regulations of the Federal Government.

Michael J. Spencer ask if Federal Funds have to be used? It is expeditious at this point, they had planned on using. Mr. Stenner stated he felt they could address Mr. Hoffman's concern that the County would be held harmless. Mr. Hoffman stated that if they could show that the County would be held harmless we could contract somebody else to actually handle the funds, he has no objections, however it is up to the board. He wants the two things met- Petition and handling of the grant funds. Mr. Stenner said they would pursue the concerns.

George Schulte ask how the dollars would flow, Mr. Hoffman stated that possibly they would be put in a separate bank account then contract with someone to administer and pay on whoever the County designates, this would be the surveyor or highway engineer. Would need to make sure there would be enough funds for the administration cost.

Mr. Stenner stated that when grants are made from funds, funds are provided in addition to the construction fund.

Mr. Osborn stated he felt the further the board could stay from the funds better off they would be.

Mark Davis stated the County should realize the importance and consider a minimal extra responsibility to get the thing going. Bruce pointed out that the landowners is involved.

Eugene R. Moore stated this is a big problem, drainage has to be OK'd before building can begin. A contract can't be signed till money is available.

Mark Davis stated the Federal funds are there, it is quick to get, its a fund that is clear on how it can be used, need the County for the conduit for everything, then contract out the burden of the project, need to be approved. He doesn't know if Mike or George could be compensated for their work or not. Mr. Hoffman thought it would be wise to hire someone to engineer the project. This would be the safest way to have a Drainage Engineer at the project.

Question was ask how is Mid-States being paid? The Employment Development Commission is paying them. The Commission has limited funds, therefore they can't continue paying them. Construction, they wouldn't be able to pay.

Mr. Hoffman ask how far is the engineering done? Plans are about ready to be submitted to the Drainage Board for review. Mr. Stenner stated they felt it to be important to know the route of drainage before filing a petition. Construction of the drainage is another important factor.

Sue W. Scholer stated, they are up against a time frame, which will be impossible to deal with.

Eugene R. Moore stated a formal request is needed.

Mr. Hoffman stated that statement was correct and that there is nothing for the board to act upon at this time. Mr. Hoffman again expressed the necessity of doing their home work, but getting petitions, as it stands now we are where we were back in the beginning of the year.

Mr. Moore ask if they could file a request to go ahead and start on handling the grant.

Mr. Hoffman stressed that it is the landowners out there who have the rights.

Mr. Hoffman stressed the importance again on filing a petition according to the Indiana Code 36-9-27-54, drainage code, this is for reconstruction and to establish a new legal drain as there is no drain east of 650 East. Easement will be moved on parts of the other legal drain, therefore the above is necessary. New construction will be the request in the new part as there will be a new easement. Petition should be to establish a new legal drain and reconstruct, and petition for new drain, both of them will be covered, it is essential that the right of way be shown, so that every body involved knows where their easement is. Part of the old easement will have to be vacated, this should be taken into the petitions. People don't want two easements going through their property. Mark Davis and Fred Hoffman will discuss this more formally.

Sue W. Scholer ask if a formal request should be requested for a grant?

JUNE 3, 1987 - PARKER DITCH CONTINUED

Mr. Stenner stated that normally the County would apply for the grant. A grant request just needs to be filed.

Mr. Hoffman stated the County doesn't want to file a grant request until we have the two questions answered about the authority for the County to contract out the work and that the County be held harmless. When we get a letter from the State in regards to the two matters, the State will have to send a letter telling us that they want us to apply for the grant for the project and that we can contract out the administration of the grant and that we will be held harmless. Fred ask that this be up front before anything is done.

The being no further discussion, the meeting adjourned.

Bruce V. Olson

Chairman

Joe W. Scholer

Boardmember

Eugene A. Moore

Boardmember

ATTEST:

Maralyn D. Turner

Maralyn D. Turner, Executive Secretary

JUNE 15, 1987 - SPECIAL MEETING - PARKER DITCH

TIPPECANOE COUNTY DRAINAGE BOARD
MONDAY, JUNE 15, 1987
SPECIAL MEETING

Chairman Bruce V. Osborn called a Special meeting of the Tippecanoe County to order at 8:30 A.M. in the Community Meeting room of the Tippecanoe County Office Building, 20 North Third Street, Lafayette, Indiana 47901.

Those present were: Eugene R. Moore and Sue W. Scholer Boardmembers, J. Frederick Hoffman Drainage Attorney, Michael J. Spencer Surveyor, and Maralyn D. Turner Executive Secretary, others present are on file.

PARKER DITCH

PARKER
DITCH

Special Meeting was called in regards to Resolution to the State I.E.D.C. concerning grant application and administration funds.

Eugene R. Moore moved to approve the letter and resolution, seconded by Sue W. Scholer, motion carried.

Sue W. Scholer moved the Resolution and suggested notes be placed verbatim in the minutes, seconded by Eugene R. Moore, motion carried.

June 15, 1987

BE IT RESOLVED BY THE TIPPECANOE COUNTY BOARD OF COMMISSIONERS AND DRAINAGE BOARD THAT:

- A. We recognize the urgent nature of completing the Subaru-Isuzu Automotive Inc. off-site drainage project on the Parker Ditch to both protect the public and to serve the project;
- B. We received verbal preliminary notification on or about May 22, 1987 that the Indiana Employment Development Commission had changed its funding mechanism and would now request that the County apply for a Community Development Block Grant federal funding to implement this drainage project;
- C. In order to expedite this drainage project this Drainage Board is favorably disposed to assist the I.E.D.C. subject to the State making a proper written request for Tippecanoe County to help. The form of the proper written request is attached as Enclosure One.
- D. The County furnished a version of the proper written request to the I.E.D.C. staff on June 3, 1987 but to date no response has been received. This resolution is to encourage the I.E.D.C. and the State to move expeditiously on this crucial project and to provide additional information derived from our Planning meeting with you on June 5, 1987 regarding this drainage project.
- E. Upon receiving a written request from the I.E.D.C. in the form attached as Enclosure One, the County shall apply for a Community Development Grant federal funding for Parker Drain improvement project.

Approved this 15th day of June, 1987

Bruce V. Osborn
Bruce V. Osborn

Eugene R. Moore
Eugene R. Moore

Sue W. Scholer
Sue W. Scholer

Sarah S. Brown
Attest: Sarah S. Brown, Auditor

ENCLOSURE I

June 3 Proper Written Request Notes

Dear Tippecanoe County Board of Commissioners and Tippecanoe County Drainage Board:

Reference is made to previous planning meetings and conversations concerning the drainage of the SIA site and the Parker Ditch. Previous intentions were that the I.E.D.C. would be responsible for the planning and implementation of the entire drainage project. Though this remains an ideal, federal guidelines indicate that the I.E.D.C. can not apply for, receive and administer the Community Development Block Grant required to implement the drainage plan. We therefore request that Tippecanoe County apply for an administer C.D.B.G. funds for the drainage project.

I.E.D.C. plans to continue with the physical and technical aspects of the project and will coordinate closely with Tippecanoe County concerning the C.D.B.G. grant application and administration. Mandatory June 5, 1987 additional language per County Drainage Board discussions

I.E.D.C. will hold Tippecanoe County harmless if this use of any of the money is later found to be improper. I.E.D.C. will ensure payment for environmental assessments, easements, appraisals, attorney's fees, and other necessary and appropriate fees and expenses of the Tippecanoe County Drainage Board which are incurred in making this application for C.D.B.G. funds and/or implementing the drainage project, in otherwords, I.E.D.C. will pay all expenses involved in this project reimburse the County, and hold the County harmless for any indebtedness incurred by the County as a result of this project.

SPECIAL MEETING - JUNE 15, 1987 PARKER DITCH CONTINUED

A cover letter to the Honorable John M. Mutz, Lieutenant Governor with the Resolution and Enclosure I was sent Monday, June 15, 1987.

Michael J. Spencer stated he had received a petition to vacate, establish and reconstruct the Parker Ditch.

Mr. Hoffman stated he had looked it over and found it to be in proper form, however the legal description is needed. The County doesn't have the proper description, he ask that they refer it to the surveyor for action as soon as they receive the description. Michael stated: Exhibit B and C are needed. The Board referred this to the County Surveyor and County Attorney.

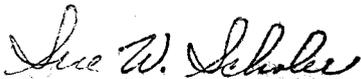
Meeting adjourned at 8:45 A.M.

BUCKRIDGE BUCKRDIGE PART II
PART II

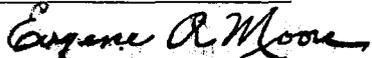
Michael J. Spencer stated Chris Kovich ask for a Special Meeting for Buckridge Part II. The Board instructed the surveyor to get the letter first and then if all requests are met in the letter they will schedule a Special Meeting.



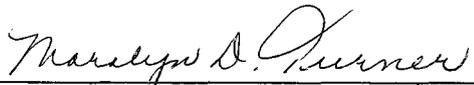
Chairman



Sue W. Scholer, Boardmember



Eugene R. Moore, Boardmember

ATTEST: 
Maralyn D. Turner, Executive Secretary

INFORMAL MEETING
TIPPECANOE COUNTY DRAINAGE BOARD
JUNE 24, 1987

The Tippecanoe County Drainage Board met at 4:00 P.M. in the Community Meeting room of the Tippecanoe County Office Building, 210 North Third Street, Lafayette, Indiana.

PARKER
DITCH

Chairman Bruce V. Osborn called the informal meeting for the Parker Ditch to order.

Those present were: Eugene R. Moore Boardmember, Michael J. Spencer Surveyor, J. Frederick Hoffman Drainage Attorney, and Maralyn D. Turner Executive Secretary. Others present are on file.

Michael J. Spencer introduced Dick Donahue attorney representing the state, Bill Petranoff representative of State Department of Commerce, and Bob Horner engineer with Mid-States Engineers.

Michael Spencer explained the reason for calling the informal meeting is to let the property owners know that the Indiana Employment Development Commission has filed a petition with the Drainage Board requesting to vacate a portion of the Parker ditch, establish and reconstruct portions of the Parker Ditch, in doing this it would extend the Parker ditch from approximately Road 650 East down to the Wildcat. The meeting is to be an informational type meeting, not a legal meeting. Property owners will be getting a notice of hearing in the mail in the next few days in regards to a hearing to be held. Wednesday, August 5, 1987.

Bill Petranoff and Bob Horner explained the routes in plan and information regarding easements.

Bill Petranoff stated: there had been two minor changes. Documents were available for property owners to give permission for survey crews from Mid-States Engineers to get on property in order to do a final survey and verify the Aerial surveys that have been done. If the property owners have not returned the documents and want further explanation this will be done today.

Bob Horner stated the intent of the project is to provide offsite drainage capacity in the Parker ditch legal drain to handle the waters that will be coming off the SIA site. The primary route of the proposed construction would come across county road 200 S. approximately where the ramp starts up over the Interstate (west side) Intersect about 600 feet north to go under the Interstate where the existing legal drain goes under the Interstate proceed from there in a due easterly fashion over to within 200 feet of county road 650 East, where they propose to pipe day light out to go from there through the culverts under 650 East and proposed improved channel east of 650 East on down to the Wildcat approximately 200 feet west of 650 East to the Wildcat Creek would be in an open channel from that point to the Interstate from 200 feet west of 650 East to Interstate would be enclosed pipe under the ground cross under the Interstate and remain underground down to the SIA site.

At the last meeting information taken was that some of the homeowners were having problems with erosion or slope ability in existing channels that now exist so what they have tried to do in their designs is to incorporate and improve the channel from an erosion stand point and from a capacity stand point. This to would handle not only the flow from the SIA site, but to better handle the flow that would be generated now of a major flood. The culvert under 650 East is proposed to be upgraded to about 3 or 4 times the capacity that exists now, this is primarily to handle the flows that come there now, they believe that if a major flood were to hit the culvert there now would be inadequate the road would be over topped, they want to prevent this with their future improvements.

Jeff Doreman representing I.E.D.P.C. explained how they have been working on acquiring easements. They are looking at getting options on the portion were there will be a new easement for the new construction system. They have retained James Shook who will be

INFORMAL MEETING CONTINUED June 24, 1987

contacting landowners in the area to negotiate the options, at this time they are just looking at the negotiating options.

Bill Petranoff ask for questions.

Mr. Hoffman ask: He understands that since they met before there has been an increase in diameter of pipe. Mr. Petranoff explained that the Indiana Department of Highways water drains into the Parker ditch system from the interchange, what the Indiana Highway Department plans to do is have a positive outlet for their facility and as a location on the east side of the Interstate on the pipe that would be under the Interstate they intend to drain all the drainage from the Interchange down into the manhole. At the last meeting it was talked of using a 66" pipe basically going from the retention pond # 4 all the way to where the pipe day lights to the east. Mid-States suggests because of the capacity they want to increase the pipe size to handle any of the lateral drains to 72" Pipe, this would pick up the additional capacity. This would pick up the Highway drainage with not problems.

Mr. Hoffman ask where does the 72" pipe start? The 72" pipe would start in the I-65 Right of Way about 600 feet north of 200 South, there would be a manhole in the right of way on the east side.

Kelly Carr ask: The pipe is built by who? The pipe is being built by the County if the County agrees to use the State funds that are available to the County to build the facility. The engineering easement, and options acquisition is being taken care by the I.E.D.C. The I.E.D.C. are the owners of the property. Mr. Carr ask if the pipe was being built for them? (I.E.D.C.). Answer: A major portion of the pipe capacity will be taken up by the SIA site. The water that is coming off the SIA site. There is some additional capacity in the pipe system to allow for some additional water to be added to the pipe, this is assuming the Drainage Board approves, with the approval the pipe would be able to handle additional water.

Mr. Carr ask: Who is you? Answer, You being the other landowners. Carr and Bull Estate land. Mr. Carr-Anybody who is on the Parker ditch drainage? The drainage board will control who has access to the pipe and how it is take care of. The plans are not only beneficial to SIA, but to the landowners in the area. The highway will have a positive outlet for the site. SIA will have a positive outlet. There will be additional capacity in the 72" pipe from the east side of the property.

Mr. Carr ask: The purpose of the I.E.D.C. is to help provide additional employment for people in the area in the State of Indiana. That's the background of the question of I.E.D.C. who has that purpose for the person building the pipe essentially under the guides of the county drainage board, within that context he is saying to himself, will there be an unused capacity and how much of that can be used for future development which maybe used for additional employment in the area. What access would these people have to that pipe?

Bill Petranoff answer: What they intend to do through the petition presented is to create SIA branch of Parker ditch, it will be a legal drain subject of the drainage law.

Mr. Carr: You are saying that the future use of the drain depends upon the drainage board. Michael Spencer stated: This is true. Mr. Carr ask about tapping into? Michael Spencer answered, if there was capacity and proper approval procedures were followed.

Mr. Hoffman stated that this leaves the question of Mr. Carr's of how much excess capacity. With the 72" pipe how full is it going to be from the project?
Mr. Horner stated: The site designers have indicated they will be generating a discharge for approximately 180 cfs in 100 year storm event, this is a 1% a given year. The 72" pipe on the west side of I-65 there will be a portion of Parker ditch legal drain, that will still remain, that portion of the legal drain will connect into the large pipe will be constructed where the pipe severs. At this point there is either a 12" or 15" field tile in the existing legal drain which would generate a capacity of 5-10 cfs additional to 180 cfs. 66" pipe at slope there now would have the capacity of 215 cfs-15-25 cfs excess. when you get into 72" pipe the discharge from State Highway Right of Way would be additional 20 cfs, 72" pipe would have capacity of 275 cfs. Mr. Hoffman stated that if want not cleanr to him, are you going to have a 66" pipe all the way across the east of the Interstate where it goes into the 72", how far does the 72" go? Goes within 200' of County Road 650 East where it intersects the existing creek that goes under the County road and proceeds east, at that point the flow line of pipe and ditch are the same, therefore it discharges into the existing creek. Mr. Hoffman, you are not going to extend all the way to 650 East. No, they will be short of that 200'.

Mr. Carr ask if they said the pipe would come in on the west side of Parker ditch is only

14"? Mr. Horner stated he would have to verify that. Mr. Carr was under the impress it was 24"/ Mr. Horner stated this is the reason they want to get out there and survey to verify some of the questions being ask today. Michael Spencer stated that the pipe on the west side of the Interstate was a 12" or 15" pipe, the biggest is 20" according to the surveyors records. Mr. Carr stated he always had the impression that on the west side the pipe was larger and when you got to the Bull farm the pitch increased and the tile was 18" and the tile on the edge of the Carr farm that went into that was a larger tile. Michael stated he was not aware of the statment, however on the Bull farm it drops down because of the slope increase. Mr. Carr stated that the proposal is just the opposite they are going to have 66" to the Interstate and under the Interstate, then 72". No, it is all the same grade in. Michael Spencer ask if a 72" pipe would fit under the Interstate? Yes. Mr. Carr ask what depth is the pipe going to be put? it will vary. The normal pool of the last detention pond, the outlet where it discharges from the site is approximately 9-9½ feet below existing ground level. They would probably run from 10-25 feet to the deepest part. Mr. Carr ask how wide of easement are they asking for. the legal drain easement rule applies 75' from center-150'total.

Mr. Horner stated they want to maintain the field tiles that are there in the low swale, they wouldn't know where they were or size unless they went out into the field and dig them up, wouldn't know where laterials were either. What they have done on the area east of the Interstate where the field tiles are in the low channel area, they have stayed away from them so they won't damage them and they can function properly.

JUNE 24, 1987 INFORMAL MEETING CONTINUED

Petranoff stated ; that any tiles that are intersepted when they make a cut that are currently going into drain from the north side they would pick up into their drain. (Parker Ditch) The reason they want to leave the existing ditch is because it handles most of the surface drainage that currently goes off the property, it will still handle the surface drainage. They are adding capacity to the ditch, therefore it will drain better than the preest time.

Mr. Hoffman stated: He understands this is going to be 10' deep and have a bunch of manholes. Horner answered right, County Drainage Ordinance requires manholes every 400-600 feet, they have put 6-7 manholes, 2 which will be in the State right of way. Mr. Hoffman ask how far under ground will these manholes be? Horner, they will be right at the ground or if the property owners would want them below ground, this could be worked out with the property owners and the County Drainage Board. Mr. Hoffman stated he felt they would have to be sealed and put underground as the farmers would have trouble plowing. To Mr. Horner's knowledge two manholes possibly will be in the fields and the rest are either on the right of way or in the woods. Mr. Hoffman ask about the laterials which already go into the existing Parker drain on the north side, the south side will be running up hill couldn't hook a pipe to a pipe 26' down. Mr. Hoffman ask how close they run to the top of the ground, the low spots, is there some less than 10 feet? Mr. Horner stated just north of 200 South where they will be heading up toward the Interstate, they are 7½ feet from top of pipe to the ground. Mr. Hoffman ask this is the shallowest of any place? Mr. Horner -before the right of way at the Interstate it is 9½' deep east of Interstate 9½' deep, first property line 10 feet east of Interstate, One low spot is about 7 feet deep start getting deeper up to a maximum of 17 feet to the top back down cross under a swale that is 6 feet below ground is the top of the pipe go through another high point that 18' maximum and back down and end at day light.

Mr. Carr: Cutting tile is a concern to him and he wants to know what kind of a guarantee the surveyor has that the tile is going to work on top on the fill. In the past when the Highway department leaves the scene they leave alot of water in the fields. Fill project unless it is packed will probably settle. Michael Spencer agreed. In the bid documents the County will require some type of maintenance or performance bond for 3-5 years after the system is installed by the contractor to assure that he has done in a workman like manner, any problems the contractor should go back and repair. Mr. Carr stated: What has been said there won't be any tiles tapped into the big new tiles. Michael stated he understands this is what they are saying. Mr. Carr stated the landowners want some assurance that they are not going to have to go in and continually fight wet spots. Mr. Petranoff stated this can be worked out through the construction plans. The County can require the contractor to go back and repair, settling will occur. Mr. Carr: Where the new pipe opens out, how much above the old opening by 650 South will the new pipe be, will it be considerably higher?

Elevation wise they don't know till they can get in and do some surveying, possibly 3-4 feet higher, Mr. Carr ask Michael spencer if he felt this would be right. The difference in elevation is because they want to day light their pipe further west than where it day lights now up the ravine. Mr. Hoffman thought they were going to be the same place. According to the plans they are not. Mr. Hoffman thought at the other meeting this was discussed as the Bull Estate doesn't want this cut back in their field any farther than what it is now. Petranoff stated it is currently projected to daylight in a wooded area. Margaret Mullins stated not it isn't. It's in the ditch. Mr. Petranoff stated it is in the ditch proper in the wooded area to the east of the fields, they will talk with the Bull's in regards to this concern, the Bull's agreed. Mr. Hoffman stated that after with the Bull's they want to go all the way to 650 East. Mr. Petranoff stated: one of the reasons why it would be difficult to go to 650 East, it would require taking another route through a wooded area, require have to dig through the wooded area and clear out the wooded area there. Again he stated not being able to get in to study the area it is hard to say, ground survey is needed, they are just using aerial photographs. Their estimation of where the pipe daylight is well down into where the ravine starts, it is not tilable land, if they could walk the area and show where it daylight. Mrs. Mullins concern is that they will have a pond or a lake, Mr. Petranoff stated they shouldn't because there is currently a pipe under 650 East there is a 4½ X 5 feet box culvert, they intend to improve this by putting in an opening two 6X10 feet box culverts under the road. As it exists now in a real heavy rain you will get a lake. They will be opening it up so it is relieved and also improve the channel so the water will flow better through that opening, actually what comes out of the pipe is a small portion of what drains in there now. There is a capacity of 260-270 cfs now, the capacity of the box culverts running under the road is going to be much greater, as there is surface drainage that currently comes into that area which causes back up, this will be elevated and add capacity to the ditch from the pipe opening all the way down to the Wildcat Creek.

Mr. Hoffman ask what were they going to do about erosion? There will be erosion problems in the gully with the amount of water that is coming down. Mr. Petranoff, to take care of the erosion they plan to use erosion control methods of Federal and State.

Mr. Horner stated they had talked with the homeowners at the last meeting who had expressed concern about erosion. They would propose to flatten the slope of the ditch out to where it would subtain itself with lower velocities. They every so often come to a steeper portion to try and get the fall back. Line the channel with rip-rap or rock that would help protect the channel bottom from the higher velocities that would happen in the steeper part, this is the intent at this time where they have a portion of the channel that they feel through methods established by the Soil and Water Conservation service have a steeper channel slope and have a less likely hood of being able to support grass cover in a woods, they would use rip rap.

Mr. Carr: What is the amount of fall on the edge of the Bull farm on the west and the outlet on the east. (In the pipe) Answer 9.2 feet in pipe. Mr. Carr stated there is alot more in natural fall. Mr. Petranoff stated the pipes are 15 feet below ground over on the high end of the west side. Mr. Carr ask what did they mean by the high end on the west side? High end of the property, low end is under 650 East. Mr. Carr stated he is on the west side of the Bull farm at that point of line. Mr. Horner stated at that point the bottom of the pipe is 14 feet below ground at Bull property line. Mr. Carr stated once again his concern is the responsibility of I.B.D.C. in regards to the 66" and 72" pipe. Mr. Horner explained the 66" pipe, the pipe from the lake to where it daylight into the creek is the same slope. It is a little more than .4 percent slope for the entire length of pipe. The surface of the grounds drops 30 feet from the Bull property line to 650 East, however the majority of the drop in the last 700-800 feet. They are fixed where they leave the site because the storm retention ponds at that point have a fixed outlet, which is

JUNE 24, 1987 continued Informal Meeting Parker Ditch

required to get the water to drain to that point they are established at about 10' below ground at 200 South. From County road 650 East to 200 South is approximately 4200 feet, if pipe was extended from daylight to 650 East they have taken away most of the fall and they are at the outlet, if pipe could be steepened could have more capacity, preliminary investigation can't steepen any more. Petranoff stated it is already 15 feet down in the ravine when the pipe daylight. Mr. Carr ask if developer could tap into the system automatically? Mr. Osborn stated this would be between Mr. Hoffman and Mr. Spencer, however this would only be permitted if there was capacity. Mr. Hoffman again stated as he understands the capacity is only 215, their going to be using 190, in the 66" pipe, the 72" would be 55 extra. Petranoff stated that it will be picking up existing Parker drains. Mr. Carr ask if they were going to be putting pipe above pipes, the answer - in area they will take it over and connect it to a manhole which will go high enough to intercept the Parker drain west. The existing field drain west of I-65 can be diverted and taken 50 feet over and connect it into the proposed manhole, this is provided in the existing plans. Vacation of the Parker drain will be on the SIA site only.

James Shook ask if he understood the present Parker ditch has existing capacity of 20 cfs they will pick that up and then there will be additional 25' of capacity, will double west of I-65 plus any existing surface run off. There are two pipes that run over land and pipes under the Interstate they don't intend to affect existing storm pipes that take the water and to overland through Parker ditch, they won't affect those that capacity is going to remain. There culverts under the Interstate that will properly help to drain the land now, the outlet on the east side will flow over land into the existing Parker ditch.

Mr. Carr again questioned on the East side of I-65 and South of 200 S, this drains into Parker ditch and apparently is going to drain into the older section of Parker ditch and not be affected by the new construction, as new construction will be up hill and further north. Petranoff answered: yes, portions drain up against I-65 per Indiana Department of Highway property east of the Interstate actually flows toward the Interstate. Mr. Carr mentioned blow holes, the surveyor stated they were repaired this spring. Mr. Carr: Farmers will be using the old tiles, he wants to be sure the ditch will be taken care of.

SIA will be using their detention pond by putting the water from the existing Parker drain into the pipe system, this should be improvement to the capacity of the existing ditch. Mr. Carr stated that Mr. Horner had stated the open ditch is designed to carry no more water than the pipe is designed to carry. Mr. Horner stated when the Parker ditch field tile is vacated from the south right of way line of 200 S. along SIA property, water that was draining through field tile onto property and into field tile North of 200 S. will no longer drain, it will go into their surface detention pond then into 66" pipe this would be less water in it as water from upstream (south of 200 S) has been diverted out of it. This water would never get into this field tile, the water that comes into that field tile from 200 South to I-65 will be connected into manhole into 66" pipe which would relieve field tile from west I-65 downstream if the existing field tile is left alone, should by virtue of things that have happened upstream actually have more available capacity than in the past. Mr. Carr: That available capacity is limited by design of open ditch, you said the open ditch design is a maximum of the 72" capacity, now the existing Parker ditch is now emptying into it. Petranoff you are talking about open ditch that will run under 650 East on down to Wildcat Creek. The design capacity 775 cfs-575 which is contributed to partial of land east of Interstate. Mr. Carr: So there is some storm water capacity in the open ditch. Yes. Mr. Horner: They have projected a 100 year storm event, currently would flow over 650 East, 5½ x 4' box culvert, pond water would over flow 650 East by ½-1 foot, two box 6' X 20': long would lower water from flowing over 650 East to top of box culvert lowering it 7 feet. Flooding upstream at Bull property would be affectively 6' less than if a storm was to happen today. Mr. Carr ask about ditch capacity. Ditch capacity collects additional 575 cfs add to 200 cfs coming from pipe gives 775 cfs. Mr. Carr ask if someone would want to put storm sewer into open ditch portion there would be capacity. Answer-County Drainage Ordinance applies.

Joseph Plasphol ask what the proposal was on his property? Mr. Horner answered: Where the flow, it's 90 then turns hits another 90 and stops, there is erosion and gutting out. They have proposed to straightened portions out, keep existing channel in areas to help facilitate drainage along and tie it back downstream in the proposed channel. Mr. Plasphol ask by what means? Mr. Horner: By providing a new channel. Mr. Plasphol: How wide and how deep. Mr. Plasphol stated from 650 East down there is quite an elevation to where it daylight. Mr. Horner: We are still in the process of establishing final grades, the velocity is very high, they plan to put rip-rap-rock in that area. Mr. Plasphol ask what do they plan to do across his field at the first 90° turn north, what are they going to use? Mr. Horner Stated: with a 30' bottom channel 3-1 side slopes, contours are not calculated out, but they will be looking at a depth of 5' in channel. Mr. Plasphol ask, if they were proposing to take over half of his field? Mr. Horner and Mr. Plasphol both said that this is something they need to talk with him as well as James Shook after the discussion.

Mr. Hoffman ask for the farmers interest, what are you going to do about saving top soil where pipe is installed? Will there be any effort to preserve the top soil or will it end up infertile clay strip through the field?

Petranoff: In talking about easements they will identify those areas where top soil is necessary for the fields and do their best effort to preserve top soil. This again will be taken into consideration with each individual the property owners who will be effected will be the Carr's and Bull's.

Mr. Horner stressed that Mid-States works closely with the Soil Conservation in getting things back to being fertile.

Meeting closed with Richard Donahue asking property owners to come forward to discuss consent forms and anything of their concerns in regards to the drainage and project.

Meeting adjourned at 5:30 P.M.

Bruce V. Osborn
Chairman

Eugene A. Moore
Board Member

ATTEST: *Maralyn D. Turner*
Maralyn D. Turner, Executive Secretary

TIPPECANOE COUNTY DRAINAGE BOARD
REGULAR MEETING AND PUBLIC HEARING
OF THE PARKER DITCH
WEDNESDAY, AUGUST 5, 1987

PARKER
DITCH

The Tippecanoe County Drainage Board met at 8:30 A.M. for regular session with Chairman Bruce V. Osborn calling the meeting to order in the Community Meeting room of the Tippecanoe County Office Building, 20 North Third Street, Lafayette, Indiana 47901. Those present were: Eugene R. Moore and Sue W. Scholer Boardmembers, J. Frederick Hoffman Drainage Attorney, Michael J. Spencer Surveyor, and Maralyn D. Turner Executive Secretary, others present are on file.

SOUTH NINTH STREET ESTATES

SOUTH
NINTH
STREET
ESTATES

Paul Coutts engineer representing Cory and Lahr developers presented Preliminary Drainage Plans. Allan R. Cory and Gene H. Lahr developers were present. Subdivision is located South of Norfolk and Western Railroad on Ninth Street on the East side of the road. Originally the property was part of the Lindale Subdivision as part of the original plans there was a 48" storm drainage pipe that was put down into the Elliott ditch from Lindale which comes up along the west side of Eighteenth Street, a 24" pipe and 48" pipe at a lower slope, pipe continues around it is shown as 36", but they have measured and it is 42" pipe at the rear of the lots. Michael Spencer has ask: What is the capacity in terms of the existing pipes verses what is flowing in now? Area north of Lindale goes into 24" pipe, calculations show that the pipes are under sized, he his getting 18-19 cfs coming from 15" pipe, they are not tying into any of that portion. Part of concern is where they are tying on coming back into pipe with 76 cfs. Lindale puts in about 35 cfs which leaves for the undeveloped portion about 40 cfs, release rate is figured in at about 30 cfs. In the system they are hooking into there is about 40 cfs available and they are going to use about 34 cfs this is what they are basing their detention storage facility, using storage facility of 2 acres. There is an excess capacity and the outfall pipe has a total capacity of 90 cfs. Mr. Osborn stated it is not a legal drain, correct. Drain is in the city. In regards to the developemtn the 42" pipe on the western side of Lindale goes right down the eastern side of the property line with a surface inlet (3) which take up the rear yards of the houses. Direct connections would hook from the street which would hook onto existing pipe, this would be their connection from detention storage which would drain back into the existing pipe. Total run off is totally connected cultasac and Lot 101 would drain into it. Would control rate of release, so the water that would come out of the detention pond plus the direct connected area would be less than 33 cfs they are getting before development. Michael has documentation. Pond will release around 15

cfs. More storage is available mainly because of the depth, they will need the dirt to fill Lot 101. Michael J. Spencer ask what are they planning to do with Lot 101 in regards to residential. The developer doesn't want to say at this point. There will be a possibility for a request to rezone.

Mr. Hoffman ask if they had considered future run off on Lot 101 in the calculations presented? Mr. Coutts answered yes. Mr. Hoffman ask after development would it be less than what it is now, yes. Calculations show 1 cfs per acre.

Mr. Osborn ask about the county worrying about maintenance. The city will maintain what is in the street. Detention pond will be dry. Mr. Coutts stated they have set aside 80' reserve strip, they worked with the City of Lafayette in terms of giving them easements.

Mr. Hoffman ask if there was any restrictions in regards to their detention facility. If developer sells out who will maintain? Answer-Maintenance goes with land as they develop Lot 101, the restriction and covenant will go with Lot 101. Mr Hoffman ask that a letter be received that states maintenance and restriction will go with Lot 101.

Sue W. Scholer ask if the City had approved? Construction plans are into them, but they want Drainage Board approval. Michael Spencer ask if the city had drainage plans. Mr. Coutts answered that he had talked with Mr. Callahan and that he had stated they were fine. Michael Spencer's recommendation is that when the city approves the plans, he would give conceptual approval. Michael had talked with Dave Hawkins and he had some questions. Eugene R. Moore moved to give conceptual approval to the drainage plans of South Ninth Street Estates, seconded by Bruce V. Osborn, unanimous approval given.

PARKER
DITCH
HEARING

PARKER DITCH HEARING

Mr. Osborn called the meeting to order at 9:00 A.M. for the hearing of the Petition to Vacate, Establish and Reconstruct Parker ditch. Property Owners in attendance are on file.

Michael Spencer surveyor, presented letter of recommendations.

August 4, 1987

Mr. Bruce V. Osborn, Chairman
Tippecanoe County Drainage Board
20 North Third Street
Lafayette, Indiana 47901

Dear Mr. Osborn:

The following recommendations are respectfully submitted by the Tippecanoe County Surveyor for the Public hearing August 5, 1987 at 9:00 A.M. in reference to the Parker Drain petition.

It is my recommendation that the Drainage Board not vacate the portion of the Parker ditch that is located on the S.I.A. site at this time. The reasons are:

1. It is not known if there are any tile lines running from the land owned by Mr. John Ayres in Section 36, Township 23, Range 4 West in a southerly direction and hooking into Parker ditch.
2. Mr. Ayres has not signed a waiver approving such a vacation.

As to the portion of the petition to establish and extend the legal drain it is my belief that this should be done, but I don't believe it can be done until the easements are secured.

I would recommend that conceptual approval of the construction plans as submitted be given. By doing this I don't want to mislead anyone on the board or any landowners in the watershed into thinking that these are the final plans. I am sure that there will probably be some minor changes in the route of the ditch that will take place when the engineers and Mr. Jim Shook meet with various landowners along the proposed route.

Very truly yours,

Michael J. Spencer
Surveyor

Mr. Hoffman wanted to add another item to the letter. Before the Drainage Board can approve the final vacation, reconstruction, and extension a complete legal description of the proposed new drain is required. In talking with Mr. Dick Donahue attorney, this can not be obtained until negotiation and options have been handled with the landowners.

Mr. Donahue made comments that three meetings have been held with the landowners. Changes have been made in plans and Mr. Horner of Mid-States Engineers presented plans this morning. They are in the process of getting out to talk to the people in getting options for easements and to nail down the final route. Preliminary work has been done. (some) Mr. Horner was present to answer any questions.

Mr. Osborn pointed out that what was before the board was the conceptual approval of plans.

Jeff Helmerick's concern was that he doesn't want the board to be foreclosed from addressing those burdens of the statute and having all information before the board in making the decision, if your saying the conceptual approval wouldn't foreclose an eventual determination that maybe the petitioners not meant it's burdens.

Fred Hoffman answered correct, but until final approval, they have not approved the project when they give conceptual approval, they approve the ideas as a way of solving the drainage problems in the area.

August 5, 1987

Lewis Beeler ask, Does this mean that the engineer could not change his mind, say go to closed tile system from 650 East road to Wildcat, does that rule that out? Answer NO Mr. Beeler ask if the county would reduce 650 East over the drainage way? This would be possible as there will be more traffic.

Mr Donahue presented letter from Lt. Governor John Mutz and Mr. Sol Rothberg Chairman of Indiana Employment Development Commission expressing their willingness and desire to cooperate with the county in this drainage operations as well as other things pertinent to this project.

STATE OF INDIANA
INDIANA EMPLOYMENT DEVELOPMENT
COMMISSION

August 3, 1987

Mr. Eugene R. Moore, President
Board of Commissioners of
Tippecanoe County
County Office Building
20 North Third Street
Lafayette, Indiana 47902

Dear Mr. Moore:

Thank you for your efforts to further advance the progress of the Subaru-Isuzu Automotive assembly plant in Tippecanoe County.

The Indiana Employment Development Commission (IEDC) recognizes its position as a major landowner in the Parker Ditch watershed. It is understood that provisions for adequate and proper drainage of property to be improved in the watershed are the responsibility of the landowners. The IEDC has contracted with an engineering firm to design an adequate and appropriate drainage system, an attorney and a real estate agent to represent the IEDC in the securing of options and approval of drainage plans, and an independent engineering firm to perform an environmental review of the drainage improvement project.

It is desired by the IEDC as a landowner that the Board of Commissioners apply to the Indiana Department of Commerce for an Industrial Development Infrastructure Program grant from Community Development Block Grant funds that will be used to fund completion of drainage improvements on behalf of the IEDC. It is the IEDC'S understanding that best efforts will be made by Tippecanoe County and the Department of Commerce to complete construction of drainage improvements with CDBG funds or other infrastructure funds available through the Department of Commerce. If there are cost overruns, or if adequate funding should not be available in the future from those sources, the IEDC will work in good faith with the Department of Commerce and Tippecanoe County to fund completion of the drainage improvements.

Please be assured of the commitment of the Indiana Employment Development Commission to the timely completion of this project.

Very truly yours,

Sol Rothberg
Chairman

John M. Mutz
Lieutenant Governor &
Secretary - manager

cc: Charles D. Preston
Jeffrey S. Dorman
William Petranoff
Richard A. Stenner

Mr. Donahue stated that the landowners have ask him many questions and he ask the board to tell them essentially what the situation would be if the plant and the maintenance of the drain system that we will be the big users of the drain and explain how the maintenance maybe determined.

Mr. Osborn ask that the board go to the conceptual approval first then discuss the maintenance later.

Fred Hoffman read letter of change of Acres from W. Kelly Carr of July 23, 1987. Mr. Carr stated that the entire 31.47 of Pt N FR NW Sec 5 Twp 22 Rge 3 drains into the Parker ditch as does the entire 80.956 acres of SE NW E N FR NW & Pt N FR NE of Sec 5, Twp 22, Rge 3.

Letters of Remonstrances from Robert L. and Barbara J. Fox PT W SE Sec 32, Twp 23, Rge 3, 2.50 acres and letter from Lewis Beeler co-owner of real estate located in the southwest quarter of Sec 32, Twp 23, Rge 3 west in Perry Township. Letter from Edward J. and Betty J. Korschot PT W SE Sec 32, Twp 23, Rge 3, 3 Acres, PT W SE Sec 32, Twp 23, Rge 3, 4.76 Acres
Letters read by Mr. Hoffman are on file.

W. Kelly Carr spoke in behalf of Ms. E.K.C. Flaningan with a statement of nine points.

1. Until they reach the existing Parker Ditch easement the proposed rain across my property is a private drain since they are not allowing me to place any more water into the new tile-other than to reconnect existing agricultural tiles.

If this is not a private drain, then please give me access to new tile for non-agricultural purposes, i.e. increase tile to 72 or 80 inches.

Another better choice would be to use the existing Parker Ditch easement.

2. You want 150 foot easement. Can't this be reduced on private drain?

3. Your proposed 150 foot easement isolates a 3 to 10 acre triangular piece of ground between I-65, the ramp leading to the bridge over I-65, and the requested easement. This isolated ground's value is greatly reduced for any use other than agricultural use as a result of its new shape and isolation.

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4. A full time county inspector should be on the property during construction. When I-65 was built the company cut a ten inch tile north of the Parker Ditch on my farm and did not reconnect the tile. Later when I tiled north from the Parker Ditch along the interstate fence to this wet area, the tile hit the cut and the unconnected 10 inch tile. A large volume of water immediately gushed out of the ten inch tile.

Because of this previous experience, I feel a full time inspector needs to be on the property to see that all agricultural tiles are properly identified, and all are adequately reconnected.

5. Because of this previous experience with a major tile not reconnected, I feel the State or County should require a five year guarantee from the tiling company in order to insure that existing field tile will work properly. Other problems I fear are settling of the ground breaking tile connections, possible problems with reconnected tiles as a result of design problems (i.e. changing tile directions to run to a manhole), compaction of the soil by heavy equipment on both the easement and perhaps on possible temporary easements which might be required, field tiles broken by heavy equipment moving over the ground around the actual ditch.

6. Loss of productivity of ground as a result of its being disturbed by construction. Care must be taken in replacing top soil back on the ground. Partial compensation could be made by providing money for heavy fertilization, to aid in breaking up soil compaction, for several years.

7. Any manhole covers should be at least three feet below the ground so when heavy equipment is being used on my land it will not accidentally be damaged by the manhole covers.

8. There are crops currently in the field and I would like to harvest them before construction begins. The construction work will probably make it hazardous for agricultural harvesting equipment to be in the easement area. This is a particularly important consideration for the crops in the triangular area between proposed easement, the bridge ramp, and I-65.

9. A catch basin and extra tiling were installed in our field by us, after I-65 went through our property, to catch water flowing from the interstate ditch onto our property. I want to see this tile area is not damaged. If damaged it must be properly replaced because there is an over flow of water onto the Flanigan property at approximately the place where Parker Ditch crosses I-65.

W. Kelly Carr had questions in regards to his own property. He ask the amount of acreage involved in the project, 1492.044 is in the area.

Mr. Osborn pointed out that there are no easements on private drain. Dr. Carr stated that they have ask for 150' easement on private drain as well as the legal. This is where they come in with the 2-66" pipes in junction box on Ms. Flanigan's property.

Dr. Carr ask if the 1492.044 included the figures involved in the drainage from the detention pond. 243 acres of additional water will be draining into the pond. His concern is that there has been a public hearing on the Interstate, but not on the retention pond which has been planned for the Interstate he felt this was the proper place to bring this up as it does effect this ditch.

Michael Spencer pointed out the State Highway does have acreage figure in and are on the assessment list 98.3 acres and that some of that 243 acres is probably included in the Interstate Right of Way. Dr. Carr ask who will be paying the maintenance fee for the increased drainage area, the answer-they will. They are draining only the ramp area. Dr. Carr wanted to point out that S.I.A. has stated they will be lining the retention with 2' clay. This is true.

Box Fox property owner ask: Are they wanting to buy 200' of easement? Yes, Michael explained the rules of easements. 150' is tile easement and 200' is for the open ditch. There would be variance.

Lewis Beeler stated at the informational meeting Monday evening, August 3, 1987 Michael Spencer stated that the amount of water that would be discharged would be no greater than what it is now. Mr. Beeler questioned why do we need a 6' tile if this is so. Also Mr. Spencer stated the retention ponds would take care of the excess water. Mr Beeler questions this.

Bob Horner stated onsite design was done by R.Q.A.W. Engineers. Prior to development the site drained into several low spots and sat on site. It either infiltrated into ground or evaporated. Michael J. Spencer stated some did go out through existing Parker drain. Some fell along the Interstate right of way went through culvert under Interstate south of 200 S overland down through swale, others of it ponded in fields down into Intersection until it evaporated or soaked into ground. As a result it was decided the site would have to discharge into something greater than all the area, therefore a concentrated location is necessary, this is to comply with Drainage Ordinance. S.I.A. and IEDC are proposing to do. They realize that they have retained their share of additional water generated from sources of roof tops, and road ways. Changing from cropland to a sodded grass situation. They need a source to discharge rather than to let soak into ground or evaporate. They are improving for the downstream facility.

Robert Dilden questioned the statement of more water or no more water?

Mr. Hoffman stated it is pretty obvious it is going to be greater, in the past the water didn't escape except through the ground, now theres a 72" pipe which will take care of the 800 acres that didn't come off before. This is reason for the tile, they are taking water off which had previously went into ground, therefore there is more water.

Mr. Horner stated from peak stand point its going to be greater instantaneous water flow, where the pipe will discharge downstream. The flooding won't be any greater because of the proposed improvement.

Mr. Hoffman stated what Mr Horner is saying there will not be any huge flooding, there will be water where there hasn't been water.

August 5, 1987

Mr. Korschot ask why do they have to have a 50' wide ditch below?

Mr. Hoffman stated they would have to dig deeper to get the fall.

Michael Spencer stated the reason it widens out is the way they lay the banks back and putting rip-rap on. 3-1 slope.

Mr. Horner stated the proposal is for a better drainage system, proposing to improve the culvert so that the road is not in danger of washing out. Proposing to stabilizing the banks down along the wooded area.

Mr. Korschot doesn't think it would ever overflow as it stands now.

Mr. Horner stated they are designing for something that has never happened in our life time. From velocity stand point on the 100 year flood would stand potential erosion and damages to the properties along the banks.

Dr. Carr ask about a hearing for Highway Retention Pond. Dr. Carr was informed that the Board meets once a month and the State Highway will ask to present their drainage plan at one of the regular meeting. Dr. Carr ask if letters could be sent when this is to come before the board. Dr. Carr expressed that the hearing today is greatly appreciated by the property owners and express that all involved have given great efforts in listening and studying this project out.

Sue W. Scholer moved to approve conceptually the drainage plans presented for the Parker Ditch, seconded by Eugene R. Moore, Unanimous approval was given.

Mr. Donahue ask for continuations of this meeting October 7, 1987 at 9:00 A.M.. This should give them time to get legal descriptions and all necessary things in order. Letters will be sent to property owners of the continuations of this meeting.

MAINTENANCE.

This is a concern to all property owners. There are ways of handling maintenance. A zoning process can be used instead of the typical maintenance rate. To decide which system to use would have to have a public hearing. Michael Spencer felt the zoning process would fit this ditch needs very well. Hopefully by October 7, 1987 meeting figures could be presented.

Mr. Beeler has some questions in regards to blow out etc, down the road. Mr. Hoffman stated because of the unusal nature of pipe arrangements will have to be made, instead of the landowner bearing the cost should come under the maintenance.

Ms. Judith Dyer question in regards to septic tank easement. Their tank is on the easement as proposed. Law of easement doesn't interfere. Michael Spencer sees no reason for concern He will check with Health department and send letter of his findings to the Dyers.

Mr. Beeler made comments in regards to the rights of the property owners and commended the board for all their efforts in this project.

Roy Fleeman in regards to his property not being able to build spetic tank. After discussion the board felt his problem is with the Health department.

Mr. Osborn expressed his thanks to Lewis Beeler for his comments, and he feels that all of us need to realize whether were for or against the plant, it is coming it is up to all of us to protect your rights, see that you get a fair shake. The board and surveyor will try to do their best to answer any questions and they will not do anything behind the property owners in regards to the easements, everything is up front, it is public money being utilized.

Jeff Hamerick ask what is next? Jim Shook will be contacting the property owners in the very near future.

Meeting recessed at 10:20 A.M. until the Wednesday October 7, 1987 meeting at 9:00 A.M.

August 11, 1987 Special Drainage Board Meeting

TIPPECANOE COUNTY DRAINAGE BOARD SPECIAL MEETING
TUESDAY, AUGUST 11, 1987

The Tippecanoe County Drainage Board held Special meeting for the S.I.A. site, Tuesday, August 11, 1987 in the Community Meeting room of the Tippecanoe County Office Building, 20 North Third Street, Lafayette, Indiana 47901

Chairman Bruce V. Osborn called the meeting to order at 10:00 A.M. with the following being present: Eugene R. Moore and Sue W. Scholer Boardmembers, Larry O'Connell County Attorney, Michael J. Spencer Surveyor, and Maralyn D. Turner Executive Secretary, others present are on file.

S.I.A.

Larry O'Connell County Attorney read letters from Stuart & Branigan Lawyers, RQAW Consulting Engineers, and State of Indiana IEDC Department, they read as follow:

August 7, 1987

Board of Commissioners of
the County of Tippecanoe
and
Drainage Board of the
County of Tippecanoe
County Office Building
Lafayette, Indiana 47901

Re: Building Permit and Drainage
Plan for SIA Plant

Dear Commissioners:

On behalf of Subaru-Isuzu Automotive Inc. we are enclosing a letter from Mr. Thomas J. Helbing of RQAW Concerning the drainage plan for the SIA plant site, as previously submitted to you, provide for an on-site drainage pond retention system to accommodate surface water drainage at the plant site. As indicated by Mr. Helbing's letter and the other related documents, this system would be acceptable as a permanent drainage plan; however, it would be more desirable from an engineering standpoint to implement certain proposed improvements to the Parker Ditch (as heretofore discussed with the County Drainage Board) for the benefit of the entire drainage area. Accordingly, it is intended to pursue efforts to implement these improvements, and we anticipate that at a future time, prior to commencement of full operations at the plant, SIA will request modification of the present drainage plan, to incorporate the Parker Ditch improvements. The timing of this request obviously will depend in part upon obtaining of the necessary landowner easements.

We are also enclosing, as requested, a further copy of the commitment letter addressed to you by the Indiana Employment Development Commission under date of March 18, 1987 accepting responsibility for any flood damage which may result from implementation of the presently proposed drainage plan.

Very truly yours,
John F. Bodle

DATE: August 7, 1987
TO: Drainage Board of Tippecanoe County
County Office Building
FROM: Thomas J. Helbing
RE: Drainage
Lafayette SIA Site

1. Storm water management planning as outlined in this letter is based upon a 100 year storm as computed for the storm water management plan as submitted to the Tippecanoe County Drainage Board. The total volume of a 100 year storm plus an allowance of a 10 hour tail-off after the end of the hydrograph calculated for the storm is 8,208,000 cubic feet of 61,395,000 gallons. This rainfall volume reflects the total volume which falls on the site and drains to Parker Ditch watershed.
2. The approximate volumes of the storm water detention basins from the bottom to maximum water levels are as follows:

POND NO.	VOL. (Ft ³)
1	2,300,000
2	1,400,000
3	1,800,000
4	6,500,000
TOTAL	12,000,000

3. Ponds, 1,2, and 3 have sand bottoms and will allow percolation of their contents to the ground water until they receive their clay lining. Percolation rates have been estimated by the soils consultant to be 0.002 cubic feet per minute per square foot of exposed surface area. Bottom areas for Ponds 1,2, and 3 are as follows:

Special Meeting SIA August 11, 1987

Pond No.	Vol. (Ft ²)
1	208,500
2	156,000
3	217,000
TOTAL	581,500 sq ft.

Total percolation rate for all three ponds:

$$581,500 \times 0.002 = 1,163 \text{ CFM}$$

$$= 8,700 \text{ GPM}$$

Time required to dissipate 100 year storm through Ponds 1,2, and 3:

$$61,395,00/8,700 = 7,057 \text{ minutes}$$

$$= 4.9 \text{ days}$$

4. The contractor has developed a borrow pit for water storage and granular material approximately 500 feet from detention Pond No. 4. This borrow pit has an approximate area of 1,000' x 600' and a low point of 634.1. The contractor desires to line Ponds 1,2,3, and 4 during this construction season and consequently the use of the borrow pit as a storm water management tool was evaluated.
5. If the existing ponds are clay lined, the volume available in Ponds 1,2, and 3 is reduced to that available under final design conditions.

Pond No.	Vol. 9Ft ³
1	687,000
2	636,000
3	1,052,000
TOTAL	2,375,000

6. The storm water may be directed to Detention Pond No.4 which can be constructed as originally planned. A pipe can be installed to connect Detention Pond No. 4 with the borrow pit. The invert of the pipe connecting Pond No. 4 with borrow pit can be placed several feet above the bottom of Pond No.4, this preventing excessive sedimentation of the bottom of the borrow pit. If the invert of the pipe connecting the borrow pit with Detention Pond No 4 were placed at elevation 640, the available volume of Pond No. 4 for storage and percolation into ground water would be approximately 5,691,000 cubic feet.
7. The available volume of the borrow pit to a water surface of 653.9 (same level as Pond No. 4 is 7,380,000 cubic feet or 55,200,000 gallons). Combining the available volumes of ponds 1,2, and 3 with Pond 4 with a pre storm water surface of 640 and the available volume in the borrow pit, a storage volume of 115,534,000 gallons is available. This volume is greater than the 100 year storm volume.
8. Based upon the previously described infiltration rate of 0.002 cubic feet per minute per square foot, a 100 year storm volume will be discharged through the bottom of the pit in 4.75 days.
9. The headloss to transmit 20 CFS from Pond No. 4 to the borrow pit in a 36" pipe is less than 0.75 feet.
10. Recommendations
 - A. The contractor be directed to clay line Detention Ponds 1,2,3, and 4.
 - B. A 36" culvert be constructed to connect Detention Pond No.4 with the borrow pit.
 - C. The borrow pit be utilized as a ground water infiltration basin until the possible future improvements to the Parker Ditch are completed.

Very truly yours,
 Thomas H. Helbing
 Senior Project Engineer

STATE OF INDIANA
 INDIANA EMPLOYMENT DEVELOPMENT
 COMMISSION

March 17, 1987

Tippecanoe County Drainage Board
 County Government Office Building
 Lafayette, Indiana 47901

Re: Fuji/Isuzu Plant Site

Gentlemen:

You recently requested that the Indiana Employment Development Commission (IEDC) agree to accept responsibility on behalf of the Tippecanoe County Drainage Board and Tippecanoe County Surveyor for problems that may arise with regard to the temporary drainage facility for the above referenced site.

The IEDC Accepts responsibility for any flood damages that may occur either to adjacent property owners or downstream property owners as a result of the temporary drainage facility to be constructed and utilized on the above referenced site where it can be clearly shown that the damages resulted from the utilization of the temporary drainage facility and that such damages would not have occurred had the pre-existing drainage facility ceases and the permanent drainage facility is in place and operational.

Special Meeting August 11, 1987

Sincerely,
INDIANA EMPLOYMENT DEVELOPMENT COMMISSION
BY: John M. Mutz, Secretary/Manager

BY: Hubert B. Feldmann, Vice Chairman

Mr. O'Connell pointed out that the letter from State was for temporary drainage facilities from discussions that were held with the state they agreed that this was on a permanent bases also. An update is needed on the March 17, 1987 letter to show that it will also cover the permanent drainage, as far as any damage down stream during construction. Mr. O'Connell ask the question of Mr. Thomas R. McCully from the discussion with the state there are no problems temporary/permanent. Mr. McCully stated that temporary has a different meaning right now, as originally proposed it was to be temporary system. It is now designed so that it would also be a permanent system if necessary. The description in the letter in his understanding talking with IEDC they were trying to indentify system against any damages so long as that system is in place.

Mr. O'Connell expressed again that a follow up letter needs to be received based on the discussion with the state to clarify the March 17, 1987 letter.

Mr. McCully is representing SIA, he stated that everything has been filed, he understands that Michael Spencer has reviewed the plans and finds them to be in compliance with Drianage Ordinance.

Jeff Helmerick representing Ed and Betty Korschot requested copies of the letters read. Copies were made available. Mr. Helmerick's understanding was that the purpose of the additional pond would be in the event the Parker ditch is not extended, improved, made a legal drain that the on site system would now handle the water, but the Board still prefers the existing drainage system, there has not been a withdrawal of the petition.

The petition has not been withdrawn. In order to bring the plant up to production they have the extra drainage. They are getting into Phase II where it becomes more necessary. In order to provide onsite detention where it becomes more necessary. In order to provide onsite detention isn't a very economic use of land. For total use of the land down the road it is important to have the Parker ditch approved, they want to do this in an orderly process, but to assure everyone now is that the system that has been designed will accomodate the storm water management during the interum period of construction and in the event something happens that the Parker ditch improvement isn't completed on time or at all, it still can be handled onsite.

Lewis Beeler ask if Mr. McCully could answer questions, he has some concerns about the lining on the ponds and the contamination. Is the state going to provide identification against infiltration and contamination 10-20 years down the road?

Mr. McCully's understanding is that their agreement is to imdemdify anybody against any damage resulting from the infiltration system. This all has been considered. There are fail safe systems built into the total project so the clay lined ponds will not provide percolation those can be isolated then goes into pcnds which do provide sand bottom percolations, there are system built in.

Lewis Beeler ask if the board was going to hire more employees to carry out some of the functions. He ask if it was the responsibility of the surveyor to check out the compaction etc. Has arrangements been made by the board to have additional personnel.

Michael Spencer ask Tom Helbing RQAW to address the questions. Mr. Helbing stated contractors will take samples of clay and they are sent away for testing. To answer Mr. Beeler's question it will be up to RQAW to see that everything is working properly.

Bruce V. Osborn stated the board does not intend to hire anyone.

Pat Long RQAW stated that State Department of Environmental management has issued a permit for the ponds to be designed there is specific reference in permit to allow the percolation rates so when they are completed they will be kept by the state also.

Michael J. Spencer's recommendation was to approve the amended drainage plan.

Sue W. Scholer moved to approve the amended drainage plan for the SIA project as submitted seconded by Eugene R. Moore, Unanimous approval was given.

Mr. O'Connell informed those present that a 11:00 A.M. the Commissioners will meet to approve building permit for SIA, this meeting had to be held before the Commissioners could approve building permit.

Lewis Beeler ask question in regards to pond discussion in previous meetings, no discussion had been held in regards to the fifth pond.

To answer Mr. Beeler's question, Mr. Osborn stated that he was correct, it seemed to the board that this would be the best solution in order to not stop the work and not harm the landowners. Time will tell, this was in their best judgment.

Meeting recessed till the Drainage Board meeting September 2, 1987.

TIPPECANOE COUNTY DRAINAGE BOARD
WEDNESDAY OCTOBER 7, 1987

The Tippecanoe County Drainage Board met at 8:30 A.M. in the Community Meeting room of the Tippecanoe County Office Building, 20 North Third Street, Lafayette, Indiana 47901.

Eugene R. Moore Vice-Chairman called the meeting to order with the following being present: Sue W. Scholer, Boardmember, J. Fredrick Hoffman Drainage Attorney, Michael J. Spencer Surveyor, and Maralyn D. Turner Executive Secretary, others present are on file.

LAFAYETTE BANK AND TRUST

LAFAYETTE
BANK
AND
TRUST

Robert Grove engineer representing Lafayette Bank and Trust Company request final drainage plans with the two conditions at the preliminary approval that a letter from the owners be received stating that they would maintain the detention basin and storm water facilities. Michael Spencer does have the letter about maintenance of basin. Second that an encroachment permit from Public Service Indiana, he is in the process of obtaining this permit which may take one to two weeks.

Mr. Grove explained the procedures of obtaining the encroachment permits. A fee of \$275.00 is submitted with the permit they review it here locally then sent on to Plainfield for consideration and approval. The detention basin will be under power lines.

Mr. Grove ask for final approval with the condition that the letter from PSI be presented to the surveyor and be recorded.

Sue W. Scholer moved to give final approval to Lafayette Bank and Trust subject to the submission of PSI letter and recording of it and that the letter is acceptable, seconded by Eugene R. Moore, unanimous approval.

LAFAYETTE AUTO EXCHANGE

LAFAYETTE
AUTO
EXCHANGE

Robert Grove engineer representing Lafayette Auto Exchange presented preliminary drainage plans. Property is located on south side of McCarty Lane. Mr. Grove stated that Michael Spencer would like to see more people in the area engage with Lafayette Auto Exchange owner. Mr. Grove stated that there is no way to force this on surrounding property owners, therefore they are providing their own detention on their own property. The area that is gravel now is going to be paved. This will be taken south depressing pressing it, creating a basin on the south end of the property. Outlet will go along Public Service Indiana easement cut over and discharge to ditch on State Road 38.

Mr. Hoffman asked what kind of ditch at State Road 38? It is a side ditch in good shape.

Mr. Grove stated there is no out let to the north or any other direction which is a concern to the board. They have presented what they can get thru pipe economically. They have restricted to 1 cfs. They have gone way beyond what would be normal discharge.

Mr. Hoffman asked if they had a permit from State Highway department to go into the side ditch? They are in the process of getting this permit. Michael Spencer stated that he had told Mr. Grove that he would have to get the permit from the State Highway and permit on the easement from PSI. Michael stated they would have to go 800' with underground tile.

Mr. Hoffman asked if there was any other way they could go? Answer No. Mr. Hoffman ask where the water went eventually? Answer- Eventually the Elliott ditch.

Mr. Grove stated they are talking about a shallow basin, not building a berm, just depressing the south area with 2 foot of storage which will feather out at that end.

Mr. Hoffman asked how big of a area? Answer a little over 6 acres.

Mr. Grove has met with PSI and their only concern is that the developer provide them with a drive along the pole line.

Eugene Moore had concern about field tile he feels that there has to be tile in the area. There is no record of tile.

Michael Spencer will have Mark Houck drainage engineer go over plans, but Michael stated the concepts are OK.

Sue W. Scholer moved to give conceptual approval to the preliminary plans presented for Lafayette Auto Auction Exchange, seconded by Eugene R. Moore, unanimous approval.

PARKER DITCH

PARKER
DITCH

Eugene R. Moore ask Mr. James Shook to give report on the acquired right of way.

Mr. Shook stated that the project of acquiring right of way started August 1987. As a solution to the drainage problem caused by the change of use within the Parker ditch watershed at that point and time it was a necessity that this project be completed in terms of acquisition of the rights of way from the head of the ditch to the Wildcat creek by October 7, 1987 so that S.I.A. could continue construction. In the interim S.I.A. and County Drainage Board arrived at a permanent solution to the drainage problem with the construction of large retention ponds on the site. However, the ultimate solution to the drainage within the Parker ditch watershed is the conversion from farm tile to natural creek to a large tile and the construction of a developed open ditch.

Mr. Shook stated he was employed by the I.E.D.C. to secure the rights of way for the construction of the ditch, to contact and negotiate with each of the owners within the watershed of Parker ditch that was effected by the construction of the tile. He has talked with all the owners. The status of the project today has been delayed by a necessary, but unfortunate step in the process in securing review appraisals of the land, the value of easement taken and damage to the remaining land. Original appraisals were completed in proper time. Review appraisals were done by R.E. Research Associates they have done their home work, however the written appraisals have not been received this has slowed the process of negotiation. Property owners are entitled to see the written appraisals. They have proceeded with the negotiations and have reached written agreement on the land and hand shake agreements in regards to the easements and in some cases what the compensation will be. Other area there are unanswered questions or in the process of negotiating the damages to the property. Mr. Shook went through concerns the property owners have.

Land owners are concerned that the existing Parker tile and the field tile which connect to the existing Parker tile be adequately connected to the new tiles in a way that the field drainage system will be as good after as it is today. Assurance on the part of the County that those connections are properly made.

Owners are concerned that the county use or engage a professional construction manager (if this is the proper word) to supervise the work to be done by successful bidder who will construct the tile. They want to know that what goes into the ground was design to go in the ground, they are entitled to this.

That there be a warranty for some period of time (not very well defined at this time) either by the contractor or by some reliable agency that the tile was properly constructed and that any failures in the short run be taken care of by the contractor.

That on completion of the work that the top soil be redistributed over the construction area and that in the storage areas used for tile or construction equipment or excess earth removed in the construction process that a provision be made for deep plowing to deal with the compaction or with damages to cover other cures for the compaction problem which will occur in the storage areas.

That in the case of temporary right of ways have been secured for construction access that any foreign materials left on those temporary easements be substantially removed and that the land be tilled so it can be farmed over in the future. There has been a request that the excess earth removed during construction be left on the land and distributed at the property owners direction.

Very importantly a request by several of the owners that the County Drainage Board will assure them equitable allocation be made of the excess capacity in the tile beyond the designed needs of the S.I.A. and for the State Highway Department in the drainage of I-65 in the reconstruction.

There seems to be ample excess capacity in the tile for the future needs in the land served in the Parker ditch watershed, they wish to be assured that these will be fairly distributed among those lands.

Another important point which must be addressed is that the line of the ditch in some cases passes already developed property and it seems to the owners that in certain cases the 75' easement from the top of the bank seems to be excessive and complicates and compounds the damages to their property. There will be request from these property owners to reduce the easements from 75' to 25'.

These are the major issues which have been encountered in the negotiations with the landowners. These will have to be addressed in securing the option agreements.

Mr. Shook stated they have reached a hand shake agreement on the actual dollar damage in some cases and in others it is a matter of negotiation and probably won't be concluded till answers are received from the other concerns just outlined.

Mr. Shook estimated that it is going to take at least another three to five weeks for completion of the detailed work that is necessary in the project. He has found that it has been a pleasant experience, and the project can be concluded in the near future. Mr. Shook ask for a continuation of this meeting since he does not have a completed package to lay before the board for approval.

Eugene Moore asked when the board could come up with an answer to Mr. Shook's questions?

Michael Spencer stated that some of the questions would be answered in the specifications that are written that go along with the set of plans to build the Parker ditch. They can include a lot of the problems that might arise with using the storage area, replacing top soil, tile connections in the bid documents there can be a bid item for construction engineering which would have an engineer on site all the time, inspector to make sure cut tiles are connected and hooked up properly. Provide the County and property owners a copy of where connection were made on their land. A certified As-Built plan will be furnished to the board accordingly to the plans. Easement reduction Michael has no problem with it.

Mr. Hoffman stated by statute 25' is the lowest footage that it can be used.

Mr. Spencer stated the biggest question he has is the allocation of excess capacity in the pipe for the land owners that are going to use it or want to use it, they are entitled to use that capacity and allocation of maintenance dollars for the future.

Mr. Shook asked how these could be addressed?

Parker Ditch-October 7, 1987 Continued

Michael stated that there are a number of ways. Straight agricultural land use there is a straight rate per acre, however he doesn't think this is quite fair because of the use of the land and system. Zoning, how the land is zoned will affect the amount of runoff, industrial will have more runoff than agricultural land. Open ditch will have more maintenance cost than the tiled area. Bottom area will have more maintenance.

Mr. Shook stated this would be the responsibility of the drainage board. Right.

Mr. Shook asked if they possibly considered the engagement of an outside consultant to help them with the allocation of the capacity?

Michael stated this will have to be done by an engineer.

Eugene R. Moore asked for open discussion.

Dr. W. Kelly Carr complimented Mr. Shook on his presentation as one of the people Mr. Shook has spent time with, Dr. Carr appreciates the compassionate and understanding he takes, the attitude that there are problems and that he wants to solve the problems, he has worked very hard in bringing other people in to help solve them. This is a refreshing breath of air as opposed to what you get sometimes when you deal with governmental bodies. Dr. Carr praised him for a fine job. However, he had one thing he wanted to amend and that was the hiring of an engineer. Dr. Carr wants to have a supervisor on the job daily during construction.

Michael Spencer stated that one of the requirements would be that an inspector be on the job site continuously.

Lewis Beeler echoed Dr. Carr's comments on Mr. Shook. Mr. Beeler felt I.E.D.C. did an excellent job when they selected Jim Shook to represent them to the property owners. Very kind and considerate. Mr. Beeler has a couple of questions. 1. New Gas line running through Parker ditch will they be cutting through the ditch, and leaving Parker ditch open like they did with water line. Answer by Michael not if the board can help it. 2. Mr. Shook talked about warranty on the tile portion of the ditch, Mr. Beeler thought they may want to extend the warranty on the entire ditch. Michael stated it would be on the entire ditch. Mr. Beeler has question is there any thought in reducing the easement in tile sections of the ditch? Michael stated there has been no request. Mr. Beeler was confused when Mr. Shook stated that S.I.A. has a permanent solution. Unintimate solution as he listened further, if we have a permanent solution then we don't need this meeting today. Permanent solution remains to be seen. Mr. Beeler would like to see the drainage board have charge on maintenance on this ditch particularly as long as used in the present use and the cost of maintenance go to S.I. A. he feels very strongly about this, particularly the open end of the ditch down in the creek bottoms he thinks there could be a tremendous amount of problems. Mr. Beeler doesn't want to see the Bull farm pay the part of the cost to have cleaning down there.

Ted Smith attorney representing Edward J. and Betty J. Korschot ask Mr. Shook if he was asking for a continuation of this meeting in order to complete all obligations that are required. Mr. Shook answered-yes. Mr. Smith stated that his clients have no objections for the request of more time.

Judith A. Dyer ask to approach the floor, she presented the following letter in regards to the 25' drop in width of easement.

October 7, 1987
 Tippecanoe County Drainage Board
 County Office Building
 20 North Third Street
 Lafayette, Indiana 47901

Attention: Mr. Michael Spencer
 County surveyor

Re: Parker Ditch

Dear Mr. Spencer:

We are owners of real estate which is being restricted by the drainage easement for the extension of the Parker Ditch currently pending before the Tippecanoe County Drainage Board

The establishment of the drainage easement to the full width of seventy-five feet either side of the center line or bank edge will be damaging to our land. If the width of the easement were reduced by twenty-five feet from the easement bank, there would be a lesser decrease in the value of our land and the decrease would not affect the Parker Drain.

We are requesting the Tippecanoe County Drainage Board to reduce the width of the easement through our property by twenty-five feet.

Upon approval of the reduction of easement width we will grant an option for a drainage easement for construction of the Parker Ditch at a price of \$3,000.00, per our discussions with James Shook, your agent.

Respectfully requested:

Leslie W. Dyer
 Judith A. Dyer

Agreed:

Michael Spencer
 October , 1987

Mrs. Dyer stated:

The easement goes right over the top of the Dyer's septic system, if repairs were to be done because of the easement construction could not occur. If it is not advisable for the twenty-five foot drop of the easement, then there has to be some other type of stipulation put into their agreement to account for their septic system.

Mr. Hoffman stated he didn't see anything wrong with the easement as long as it is the tile portion of the drain, he could see why a septic system in an open ditch system would not be advisable 30-40 feet in an easement.

Michael Spencer stated it is there now.

Mr. Hoffman asked if this was where the tile is or an open ditch? This is the open ditch.

Mrs. Dyer stated because of the grandfather law she has the permission to have the septic system where it is now, but if there was ever a new owner or a difficulty with the system no repairs could be done because of the easement width.

Mr. Hoffman stated this is because of the Department of Health rules, not because of the drainage easement.

Mr. Shook stated that the Dyer's property is on 650 East their septic system and it field as it is presently constructed comes within 50 feet of the top of the proposed improvement, this is one of the cases if reduction of easement width this would solve their problem, it would all be outside of the easement area. If it is inside the easement area the Dyer's want assurance that they can make repairs or rebuild.

Michael Spencer stated the Health Ordinances is 25 feet away from any stream, creek, waterway, ravine.

Mr. Hoffman stated he doesn't think there is any problem, an encroachment could be granted.

Michael Spencer advised the Dyer's that this will be taken under advisement.

Mr. Ted Smith stated he thinks he has the answer to Mr. Beeler's question of why are we here if the drainage is permanent. He thinks we are here because the statement made by the I.E.D.C. in order to obtain a building permit (in the letter of September 11, 1987). Mr. Smith asked Mr. Beeler if he was familiar with the letter which the guarantee was made against damages or loss which may occur from over flow.

Mr. Smith has some serious doubts about the authority of the individual and development commission to make such a guarantee, he doesn't think it will hold up, but at least it will accomplish one thing that is they got the building permit, and that is what they wanted. Now, why do they want to complete that drain? He thinks because they realize there may be some questions about the legality of this particular guarantee.

Mr. Smith stated: Another thing he wants to mention to Jim Shook. Jim has been working hard on this, but Jim stated we have two aspects. 1. Determine what to pay these people based upon the appraisal of the land. 2. Pay based upon damage.

Mr. Smith thinks there has been a lot of meetings with discussions about the appraisal of land, he thinks it has been cheap, he's not criticizing Mr. Shook's approach, but the figure is low and they are not paying any attention to the damage that is being done to the people. There is one person who has a house within the space they intend take in the easement, another person who has land that will become worthless land and as far as his clients concerned they bought the land with the intent to sell for building site which could have sold for \$15,000.-\$20,000.. Building sites in the country are expensive, these people are going to be affected, their loss would be very substantial, but their offers have been much less.

Mr. Beeler stated he did not have a copy of the letter which Mr. Smith spoke of. Mr. Beeler had asked Larry O'Connell for a copy of the letter plus he had a concern about pollution and what might happen to their well. Mr. O'Connell stated that the State of Indiana would take care of those problems. Mr. Beeler stated he wanted to see a letter to that affect and to this date he has not received a letter with this statement. This letter is to come from the Lt. Governor. Mr. Spencer has letter of September 11, 1987, but it does not pertain to pollution.

Sue W. Scholer wanted to clarify that the request for variances will come on an individual basis and be handled one at a time. The board will have to work on the assigning capacity and determining maintenance schedule.

Mr. Hoffman stated that on the capacity if the person is assigned more capacity their assessment is going to be accordingly, because they have more capacity for future use than someone who doesn't they should pay more.

Michael stated that capacity should be allocated for the whole watershed.

W. Kelly Carr stated there may be one other way to do it, and that is to go ahead and do the allotments, then have the maintenance cost assigned on the basis by which the people actually use these allotments. There may be no use for those allotments for 5-10 years. The sole purpose of the ditch might be S.I.A. and existing farm water drainage which is already provided by some other type of formula. He feels that some thought should be given to this. These people should pay for the use of the storm water drainage when

October 7, 1987 - Drainage Board Meeting Continued

they go to use it, it is just excess capacity sitting there till it is used.

Richard Donahue asked if an indefinite continuance of this meeting could be asked for?

Sue W. Scholer moved to continue the hearing on the Parker ditch to the next regular Drainage Board meeting November 4, 1987, seconded by Eugene Moore, motion carried.

Mr. Moore thanked the property owners for their attendance in the meeting, it is appreciated.

STATE HIGHWAY DRAINAGE PLANS

STATE
HIGHWAY
DRAINAGE
PLANS
38-I-65

Allen Egilmez project engineer of Indiana State Highway Department stated that Todd Frauhiger has worked very closely with the County Drainage Board specifically with Mr. Spencer surveyor, and Professor Houck of Purdue University who is acting as a consultant for the County Drainage Board to basically tie up all loose ends and come up with the correct design for the detention ponds on the project. In all cases County Ordinances have been met.

Todd Frauhiger presented the board with booklet of Drainage proposal for I-65 and State Road 38. The drainage plan is broken down into three parts corresponding to three different drainage areas. The water is either detain in a pond or in a roadside ditch to meet the county ordinance.

Exhibit A and B will discharge into Elliott ditch and C will discharge into the Parker Ditch.

Exhibit A consists of 23 acres and drains into the north and south roadside ditch. The developed 100 year flow is about 62 cfs, the pre developed 10 year flow is about 38 cfs. Propose to detain the water in a detention pond which will be constructed on the south side of SR 38. The outlet pipe will discharge directly into the Elliott ditch at a peak flow of 20 cfs. Bottom of the pond will be elevation of 648 and top of bank at 655. Major concern for this pond was that the 100 year flow rises in Elliott ditch, water would back-flow thru the discharge pipe, this would cause available storage in the pond to diminish greatly. To prevent water flowing back thru the pipe a flap gate will be installed, the gate will close as the Elliott ditch level increases, this will prevent back-flow into the pond with zero discharge from the pond.

Michael Spencer asked the size of the outlet structure pipe. 12 inch pipe.

Michael asked if the easement was outside the statutory 75 foot drainage easement or inside? Inside.

W. Kelly Carr asked how large is the drainage area? Drainage area for the pond is 23 acres.

Mr. Hoffman asked if they were going to extend Elliott ditch, answer yes. Mr. Fraughiger understands for future development the county wants Elliott ditch opened up between State Road 38 and I-65. Not adding to the ditch.

Mr. Beeler asked how far north and south were they going to go on I-65?

Exhibit B

The area consists of of approximately 40 acres of highway right of way. The area drains into the roadside ditches which discharge into the new portion of Elliott ditch. Area has a 30 inch tile. This area was tricky as there was no good place to build a detention pond, so they are proposing to detain the needed water in the ditches by breaking the drainage area into four sub areas. Keeping the water in each sub area discharging through three areas in a 12 inch pipe. The areas are Northwest ditch, Southwest ditch, Northeast ditch, and Southeast ditch. The southeast ditch will be allowed to discharge unrestricted into Elliott Ditch, the other three ditches will discharge into the top of Elliott Ditch thru the 12 inch pipe. The necessary storage is attained in the roadside ditches. The total pre developed 10-year flow is approximately 24 cfs, the total flow from the proposed system is 24cfs .

Mr. Hoffman asked how deep are the side ditches going to be? Answer approximately 3-5 feet deep. Mr Hoffman ask if the side ditches there now were going to be deepened, answer yes. Grade is very flat in the area.

Mr. Hoffman asked if they had sufficient right of way for this? In the process was the answer.

It was checked thoroughly to make sure that the peak elevations remained within in the ditches they never over topped the ditch to get out into the roadside. By detaining water in three of the four ditches the 10-year undeveloped flow of 24 cfs.

W. Kelly Carr had questions in regards to the 40 acres and the right of way. Mr. Fraughiger answered his questions from the maps.

W. Kelly Carr asked how were they collecting the water from the Railroad tracks. Everything slopes to the south, all surface drainage.

EXHIBIT C

Area consists of 215 acres of land adjoining State Road 38 and I 65. The area includes both highway right of way and adjacent land which drains onto the highway right of way. 100 year developed flow for the land is 180 cfs. the post-development discharge from the

proposed detention system is 25 cfs, which will discharge into the Parker ditch.

The 100 year storm runoff will be collected and routed into a detention pond in the southeast quadrant of the intersection of County Road 200 South and I-65. Water will be out letted thru a 24 inch pipe into the discharge pipe from S.I.A. site. A major concern in the design of this pond was the amount of land actually draining into it. Originally the pond was sized for 255 acres, peak elevation for the 100-year storm event was 660.15, learning that there was a difference in acreage the design was reevaluated with 215 acres-100-year storm evaluation of 658.66 a drop of approximately 1.5 feet, this gives a freeboard of approximately 3.3 feet, which assures no overtopping at the 100 year storm.

W. Kelly Carr asked Mr. Fraughiger to identify where the 50 acres is. There is an existing catch basin at the 50 acres.

W. Kelly Carr asked if they knew the reason for the catch basin, it is because the Indiana Department of Highway plans show a 8 foot back side ditch and there is only 1 foot back side ditch. Catch basin is there as material furnished the drainage board because the Indiana Department of Highway said the natural flow land went that way. That was built there to protect the landowner against any damages. Since he has told the State Highway why that is they are taking the 40 acres out he wants to be assured that the State Highway will no longer put any of their water on this property as they have in the past since 1974-1975. Mr. Fraughiger stated the ditch will be reconstructed. W. Kelly Carr stated it was reconstructed the last time and the assurances were not very adequate. If he would have followed their advise in the letters sent to him at that time he would have had between \$2,500.-\$3,000.00 in crop damages every year since that point and time. Mr. Fraughiger and W. Kelly Carr will discuss this matter at a later time.

With the 40 acres the pond would be have at least 12 foot of water.

Pond will have around 32 acre feet of storage. Mr. Hoffman asked if it was going to have a fence around it? Answer yes

W. Kelly Carr asked about the peak elevation with the 40 acres is 660.15 and without the 40 acres 658.66. Dropped peak elevation about 1.4. Dr. Carr asked another question since he suggested that the drainage pond calculations included land which did not drain into the detention pond. What has been done to assure Mr. Carr that the other ground doesn't have a different method of drainage.

W. Kelly Carr asked how they arrived at the calculations for the field drainage? Contour maps. Michael Spencer said this is normal procedure to use contour maps to calculate field drainage.

W. Kelly Carr is concerned about the detention area since his 40 acres has been taken from the area. He wants to know if the other areas are justified since he found their one error. Much discussion.

Michael Spencer asked about the land along 38 from I-65 to Dayton that they are picking up. This is because the side ditches are deeper and going to flow down 38 toward I-65, then along I-65 to the pond.

W. Kelly Carr asked for this area, is it side ditch collection - yes. How do you justify the soil in the area?

Mr. Fraughiger stated the area was moderate soil. W. Kelly Carr stated that they might want to redo soil test in that area as he questions the test. Early settlers settled in that area and the reason for their settling there was because there was natural drainage. Again he wants reassurance.

W. Kelly Carr is objecting to the size of detention pond, particularly so when the collection system will be only the water that finally reaches the highway ditches. Mr. Egilmez stated there is an existing 14 inch tile that borders along the side south of the railroad. Much discussion.

W. Kelly Carr stated he would like to build his detention pond in the same general area as the Indiana Department of Highway's pond. Concern of where his water is going. His drainage is good as it is on a slope in an 8 inch pipe underground into the Parker ditch. Taking the Carr 40 acres out reduced height necessary for storage 1.35 feet, planning rest of the area on basis of unconfirmed whether there are any other tiles that flow in. He would be much more comfortable if the detention pond was smaller unless he knows he can have an adequate size detention pond for commercial development later. If it were ever necessary to develop an alternate method of draining into the Parker ditch he feels he could bore under the highway go down on the north side of the road to reach the Parker ditch. At the current time the tile through the Bull farm probably doesn't have a deeded easement, he could be in trouble in terms of his long term use of ground with an inadequate outlet. So the location of the detention pond does cause serious problems for the Carr's, as his detention pond moves over far enough that it comes all the way around on I-65 to go north.

Michael Spencer stated that the plans presented today is the State Highway submittal plans, they have to come back for final drainage board approval, this is the boards first time of hearing and seeing the plans. The board will check the plans.

Kelly Carr requested the detention pond size be decreased and retain the ability to have an alternate method of getting to the Parker ditch if it would become a necessity. Mr. Fraughiger responded that the contour maps show the land draining there. All hydraulics are based on drainage flow in the area in doing this he has to have the size

October 7, 1987 Meeting Continued

of pond he has proposed for the area by the numbers.

W. Kelly Carr feels it is a critical question when it comes to finding soil types as there is a new soil type, Lafayette.

He still questions the soil types used in this study. Much discussion.

Mr. Egilmez stated they do design plans for the worst conditions.

W. Kelly Carr stated that the states worst condition is his worst conditions and he wants to resolve the problems with adequate communication. Much discussion.

Lewis Beeler stated he was interested in this meeting as he owns land two miles south of the area being discussed. The State Highway department made promises 20 years ago (I-65) that they would have a low spot and fix it so water won't get out on my land will just be ponded, a detention pond was built on the right of way, it doesn't hold it gets out on the Beeler property. Mr. Beeler ask if they were going to solve his problems two miles south? Promises don't hold from State Highway department.

Michael Spencer again stated that the plans presented are submittal plans, they are ready to be studied and the State Highway could come back at the next drainage board meeting November 4, 1987 if everything is in order.

There being no further business the meeting was adjourned at 11:50 A.M..

NOT PRESENT

Chairman, Bruce V. Osborn

Sue W. Scholer

Boardmember, Sue W. Scholer

Eugene R. Moore

Boardmember, Eugene R. Moore

ATTEST:

Maralyn D. Turner

Maralyn D. Turner, Executive Secretary

TIPPECANOE COUNTY DRAINAGE BOARD
OCTOBER 14, 1987

The Tippecanoe County Drainage Board met Wednesday, October 14, 1987 at 9:00 A.M. in the Community meeting room of the Tippecanoe County Office Building, 20 North Third Street, Lafayette, Indiana.

Vice Chairman Eugene R. Moore called the meeting to order with the following being present: Sue W. Scholer Boardmember, J. Fredrick Hoffman Drainage Attorney, Michael J. Spencer Surveyor, George Schulte Highway Engineer, and Maralyn D. Turner Executive Secretary, others present are on file.

COUNTY ROAD 475 EAST

COUNTY
ROAD
475 EAST

Lamar Ziegler representative of Clyde E. Williams & Associates Consulting Engineers for the County Road 475 East project presented Preliminary Drainage Plans. The drainage for County Road 475 East was divided into three major subareas. Area A, B, & C. Area A is located south of Elliott Ditch, Area B is located north of Elliott Ditch to station 86+00, and Area C is located north of station 86+00. Areas A & B drainage flows into Elliott Ditch and Area C flows north through the Berlovitz ditch eventually into the South Fork of Wildcat Creek.

Mr. Zielger presented a computer print out, a summarized aerial blue print, and proposed preliminary plans.

Area A is between State Road 38 and Elliott Ditch. The existing conditions 10 year undeveloped flows was 4 cfs as compared with 18 cfs for the 100 year developed conditions. The proposed 12" CMP at 1.5% slope will create a head of no greater than 3.3' at a discharge of 4.5cfs. The outlet velocity will be 5.7 fps at this discharge. This would have a dike in the east ditch using the 12" corrugated pipe. There is a water back up in the east ditch of CR 475 E, storing water in that ditch and discharging through the 12" pipe to the Elliott ditch. One criteria they could not satisfy. That is they are discharging the water at an elevation 650.00 into the Elliott ditch. The designed flood elevation somewhere between 50-100 year flood elevation for Elliott ditch is 655.04 therefore the water is discharging well below the 100 year flood elevation for Elliott ditch.

Mr. Hoffman asked in the event of a flood it won't discharge until the water goes down? Answer right, two things can happen, in a normal 100 year storm event the water will be in the ditch and gone prior to the head waters reaching flood water elevation in Elliott ditch. Second thing is they are proposing a flap gate on pipe structure to retain water in the side ditch until it can discharge.

October 14, 1987 Continued

Mr. Hoffman asked: In a 100 year event from the highway there would not be any more water into Elliott ditch at flood time than there is now? Mr. Ziegler answered in Area A this would probably not be true, because of the combined storm events. If Elliott ditch is flooded what will happen is the water will run into storage area and not be able to go any where because of the ditch elevation in Elliott ditch is higher. It will continue to build up until it runs over the dike elevation 655.04. This will flood on the east side of 475 East. This is a small run off rate of 4.5 cfs.

Mr. Hoffman asked what is it going to do to this area of the highway? Mr. Ziegler said there is no specific development at this time. Mr. Hoffman asked who does it belong to? It belongs to S.I.A.. Mr. Hoffman stated: Then the area that will be flooded is the S.I.A. property. George Schulte stated: that they were talking about utilizing the soil in the area for other projects. They are going to make existing ditch wider than it is now. Mr. Hoffman ask if S.I.A. knew what is happening? Michael Spencer answered - NO.

Area B.

Existing conditions 10 year undeveloped flow was 15cfs as compared with 38 cfs for the 100 year developed conditions. A proposed 18" corrugated metal pipe under CR 200 south. A proposed 24" corrugated metal pipe at station 45+50 underneath entrance to motor pool drive that becomes a dike or storage structure. From 24" structure downstream and two additional cross pipes station 42+00 and 36+50 all water flows to the east ditch outletting through the dike. A proposed 18" corrugated metal pipe at station 35+00. They are proposing a discharge rate of 13.7 cfs. The outlet velocity will be 7.8 fps at this discharge. There are some flaws in the proposed plan. 1. To have adequate storage just north of Elliott ditch behind the 18" pipe, they will have to encroach a little bit into the utility easement. If this would be impossible they will have to look at some additional storage areas or slightly increase the discharge rate. 2. They are discharging at an elevation of 649.49, the Elliott ditch flood elevation is 654.45, 5' below flood elevation. In the case of Area B the storage pool at the outlet is an elevation of 655.04 therefore the storage pool is higher flood elevation than Elliott ditch the water will seek its own level and will be forced through the pipe even though both ends of the pipe are under water. They don't foresee the same problems for Area B that they have for Area A.

Mr. Hoffman asked if there would be more water going to the Elliott ditch over the pipe into the ditch. Answer No, there will be a dike around the storage area with an elevation of 655.05 with water level higher in the storage area than the ditch it will be forced through the pipe into the Elliott ditch at 13.7 cfs. Mr. Hoffman stated: then it will not go into the ditch any faster than it does now. This is correct.

Area C.

Begins at station 86+00 in the west ditch at an elevation of 668.76. Existing conditions 10 year undeveloped flow for the area is 14 cfs as compared with 46 cfs for the 100 year developed conditions. Subarea has been divided into smaller areas in order to reduce the total discharge from Subarea C to less than 14 cfs. Proposed detention basin is 10 cfs under the existing 10 year discharge rate. Water flows north, runs into two cross pipe structures. One in east ditch and one in west ditch. The pipe in the east ditch runs under County Road 500 E and the pipe in the west ditch runs under field entrance that serves field on west side of county road. Both structures serve as small dikes. Water in the east ditch runs directly into the detention basin, the west ditch runs down to station 98+00 crosses in three reinforced concrete pipes under the new County Road 475 E into detention basin. The detention basin discharges through a 21" reinforced corrugated pipe at a rate of 10 cfs at an outlet velocity of 4.2 fps and a depth of 1.8'. Outside the discharge area there is a new ditch graded to tie to the existing ditch station at 104+00 about 600' downstream from the detention basin. The detention basin is fairly flat B basin that has no water pool indications, a dry basin.

Mr. Hoffman asked if the Berlovitz ditch could carry the flow? Michael Spencer answered. Currently from that area there is a discharge rate of 14 cfs, the reduction after development to 10 cfs, the only problem Michael sees is it is sheet drainage now and it will be point discharge coming out of detention basin. Michael doesn't know any other way to detain the flow. Berlovitz ditch is agricultural field tile and needs reconstruction. There is a maintenance fund on the Berlovitz ditch.

Elliott Ditch

The culvert analysis was performed in cooperation with the Indiana Department of Highways to size structures required in Elliott Ditch under 475 E. The limiting factor for this culvert was the size and condition of the downstream Elliott channel. there is approximately 3.3 square miles upstream of 475 E. For Elliott ditch a 50 year storm would discharge 700 cfs. This amount of discharge would stay within the ditch banks upstream and downstream. The design structure would be two 8'X7' precast reinforced concrete box culverts 120' long with upstream and downstream elevations of 646.00 and 645.76 respectively. Headwater and tailwater elevations are 654.45 and 654.47 respectively. Ditch Grading to be done in conjunction with the S.I.A. site allow for a 20' bottom ditch opening with 4-1 side slopes upstream from the structure. Downstream the existing section is not adequate to handle the 16 - 18' wide structure.

Mr. Hoffman asked if the only portion that would be flooded is the S.I.A. by Part A. Mr. Ziegler answered yes, and that's only under the situation where a sizable storm would be back to back where Elliott ditch would be full when run off starts to running off the project area. Mr. Hoffman, nobody else is going to be affected by the flood waters. No.

ELLIOTT
DITCH

Elliott Ditch-October 14, 1987 Continued

Mr. Ziegler stated that the road project effectively serves as a dike to retain all the waters within the area. A low point is at station 36+00 with 656.11 elevation a foot and half above high water elevation for Elliott ditch, a foot above the top of the banks. Flooding would be east of 475 E. instead of seeing water over the road.

Michael stated one of his concerns is, strictly by the ordinance any storage below 100 year water elevation doesn't count. We have upheld that in all cases as far as wanting developers coming in with 100 year water elevation. In that kind of ditch there is a problem. The only alternative is the detention basin would have to be north of Elliott ditch in an area where you could get storage. Mr. Hoffman asked if it would be on the other side of S.I.A. property? Michael answered that either the S.I.A. site or on the field on the west side of the road. The dike would have to be moved at station 45+00 before the storage could be above the 100 year flood elevation. Mr. Hoffman asked how are you going to get it up there? Michael answered that will have to over detain and have to be bigger to make up for the part that is already in the ditch.

George Schulte stated: if we do require a detention basin it should be located on the S.I.A. property.

Mr. Hoffman stated if they are taking dirt from the site they are going to have to get consent from S.I.A. with this plans as there will be flooding on the site.

Mr. Ziegler stated this could be alleviated if they would dike up the drainage area with an elevation above 655.00 then in the event of a major storm where Elliott ditch is flooded the water would rise to an elevation higher than Elliott ditch. In a normal single storm event the water would be down the side ditch into the Elliott ditch and gone before the head water would ever get in Elliott ditch. Their time concentration is a maximum of 45 minutes for Area B, 15 minutes for Area A. Elliott ditch is 3-4 hours.

George Schulte asked who is going to maintain the detention area? Need to get in a right of way. Problem here is that a right of way has already been determined. Need to do is get an easement from S.I.A. for the detention storage basin at that time county would be responsible for maintaining. Highway maintain. Need to get an area from S.I.A. find what the volume storage would be. Area would be 2 acre feet of volume. Be a 1/2 acre 2 feet deep, not too big an area. This is based on the 13.7 cfs release rate, this will be decreased, it will take more than that. To work in accordance with the Drainage ordinance a detention basin is needed. Logical area would be north of entrance in the Motor Pool area station 45+00. There will be excess storage there. When Elliott ditch flows it will back clear up to the drive. George Schulte stated that the board needs to contact Pat Long and talk with S.I.A. get the problem resolved. Mr. Hoffman stated their consent has to be gotten regardless what is done, because they are going to have water on their site.

Mr. Ziegler stated that Detention basin will take care of Area B, and would not do Area A any good. He asked if they wanted them to dike up Area A?

George Schulte answered: They need to look at some release rates and decrease the release rates out of the detention basin to make up for the run off from Area A.

Mr. Ziegler asked if they wanted to do Area A as designed?

George stated he felt they could let it flow right into the channel and do away with the 12" pipe. Same with the 18" pipe. Basically the lower end needs revamped to Elliott ditch. There will still be flooding from the Elliott ditch but not from the highway.

Michael Spencer is to get in contact with Pat Long and then Mr. Ziegler will come back with a revised proposed drainage plan for the detention basin.

TOWER CORNER

TOWER
CORNER

Tom McCully, representing Long Tree LTD, developer for Tower Corner which is located at Creasey and McCarty Lane consisting of a L shape 7.8 acres. Area will be for Commercial Shopping area. He presented the board a letter of request:

October 14, 1987

Tippecanoe County Drainage Board
20 North Third Street
Lafayette, Indiana 47901

Re: Tower Corner Drainage Plan

Dear Mrs. Scholer and Gentlemen:

As Developer of Tower Corner, a commercial development at the northeast corner of Creasey and McCarty Lanes in Tippecanoe County, Indiana, this letter is given to convey our understanding and assurance of the following:

1. The detention storage facility shown on the drawing of Tower Corner, Phase I, by Paul J. Coutts, Registered Profession Engineer, dated September, 1987, and on file with the Board, is designed to handle the storm water runoff for Phase I adequately, but will not accommodate full development of the entire parcel.

2. At such time as future phases are constructed which cause the runoff from the total development to exceed the capacity of the presently proposed detention facility, additional detention will be provided by the developer, either on-site or off-site, with the design and location of facility to be subject to the approval of the Board at that time.

Very truly yours,
LONG TREE LTD.
BY: William H. Long, President.

Mr. McCully asked for approval of the Phase I drainage facility.

Michael Spencer stated the one thing with this is the high water elevation problem, as the Treece Meadows ditch has a high water flood elevation. They have shown that their storage is above that high water elevation.

Mr. Hoffman asked if there was going to be a faster release than is there now? Answer No, be less. Michael stated there has been a release rate set for any development which drains into the Treece Meadows watershed area. Storage is above flood elevation.

Mr. Hoffman asked if the storage pond was going to be a part of Elliott ditch or who is going to maintain it? Detention pond is on the property and the developer will maintain it.

Mr. Hoffman stated they need an assurance of the maintenance, a recorded document. There is no covenant in this case. It is an on-site detention facility.

Michael Spencer recommended that the plans be approved subject to Mr. Hoffman's request of a recorded letter in regards to maintenance.

Sue W. Scholer moved to give drainage approval for Phase I of Tower Corner subject to recording of letter of information in maintenance, seconded by Eugene R. Moore, motion carried.

Mr. Hoffman and Mr. McCully will discuss the letter needed and form a document for maintenance recording.

CARTER
LUMBER

CARTER LUMBER

Robert Grove engineer representing Carter Lumber presented and requested final approval of the Drainage Plan proposed. Property is located at Intersection of State Highway 25 and 231. State Highway has asked that a positive outlet be put in the side ditch at the entrance south of Beck Lane. As it is a 15" culvert water stands there now which runs into the detention facility, it could be by passed if it got to be a problem. When the drainage pattern is changed it should pull some of the intersection water from the south through the ditch. Proposal is to run off directly. Increasing the size of detention basin everything is graded around the building then into the basin outletting into ditch into a 24" pipe running off into the ravine system. They do have permission from the church to install, the church wanted them to do it that way, opposed to coming down the line. Release of outlet is 1.62 cfs an orifice plate on the 12" pipe.

Michael Spencer and Mark Houck drainage engineer have looked at the plans, they found no problems, it will be maintained entirely by Carter Lumber, as it is on their site.

Mr. Hoffman requested a recorded agreement from Carter Lumber if they are going to maintain.

Sue W. Scholer moved to give final approval for Carter Lumber drainage plans subject to the recording of maintenance statement and a letter be presented to the board from Assembly of God church giving consent to Carter Lumber to use the ravine system for drainage.

D&R
FRUIT
MARKET

D & R FRUIT MARKET

Kenneth Personett representing D&R Fruit Market presented building plans.

BRITT
DRAIN

Michael Spencer stated that D&R Fruit Market at Creasey Lane and 26, they have supplied their run off calculations and the hydrograph. The area is tributary to the Britt drain, they are a party to the maintenance agreement. One of the requirements of the Britt drain as built was that all new developments come through the drainage board and be in compliance with the original agreement. This has been done and they are in compliance. It will go to the Britt drain detention area and be detained there. Michael stated they want them to show that they are not going to have negative impact on the pond as it was designed for total development in the area, they are well within the runoff co-efficients.

Michael asked that the developer go to the Area Plan and make sure they can have the two buildings on the same lot. Mr. Personett stated they have done this.

Sue W. Scholer moved to acknowledge the boards consent for D&R Fruit Market Creasey Lane and 26 for their additional building and that it does conform the requirements for the Britt Drain detention pond, provided the construction is made pursuant to the plans presented, seconded by Eugene R. Moore, motion carried.

PARKER DITCH

PARKER
DITCH

Michael Spencer asked the board for discussion in regards to the allocation of the excess capacity in pipe hinged with easements for the Parker Ditch. The major problem is South of 200 South, east of the Interstate, and North of 200 South, west of the Interstate. He has talked with Bob Horner -Mid-States Engineer in negotiating a rate and he understands the situation. Michael stated he needs guidance. Mr. Hoffman stated that it should be done by someone impartial. They need to work with Mark Houck. This will have to be interjected at a hearing. The board ask Michael to get an estimate and element of time. People need to know we are working on it. Discussion who would pay for the work. It is felt that it can be taken from the Grant, however to begin with we can pay out of Engineering and then be refunded. Michael will get a proposal and report to the board.

SPECIAL MEETINGS

SPECIAL
MEETINGS

Discussion on having Special Meetings. It seems we have been confronted with too many Special Meetings, some have a just reason, but others could wait till regular Drainage Board meeting. We will stress the 20 day deadline, and if a Special meeting is called the surveyor and Executive Secretary will tell developer of the \$35.00 charge and bill everyone on the agenda for the same. This is effective immediately.

There being no further business to come before the board the meeting adjourned at 10:10 A.M..

NOT PRESENT

Chairman, Bruce V. Osborn

Sue W. Scholer

Boardmember, Sue W. Scholer

Eugene R. Moore

Boardmember, Eugene R. Moore

ATTEST: *Maralyn D. Turner*
Maralyn D. Turner, Executive Secretary

The Tippecanoe County Drainage Board met in the Tippecanoe County Office Building Community Meeting room, 20 North Third Street, Lafayette, Indiana 47901.

Chairman Bruce V. Osborn called the meeting to order at 8:30 A.M. with the following being present: Sue W. Scholer Boardmember; Michael J. Spencer, Surveyor; J. Frederick Hoffman, Drainage Board Attorney; and Maralyn D. Turner, Executive Secretary; others present are on file.

PARKER DITCH

James C. Shook gave report and review of the status of the negotiation for the easements for the ditch. Going parcel by parcel beginning at the west end.

Mrs. Edith Flaningam property straddles I-65 on north side of 200 South. At the last meeting he detailed the items that was the greatest importance to the landowner; the allocation of the excess capacity in the tile to be constructed; the supervision of the construction of the work; and condition of the land during and after the construction of tile and damages which might be incurred by construction.

The County through Michael Spencer and Mid-States Engineers are in the process of determining an equitable allocation of the excess capacity of the sewer, Until such time that engineer's numbers are received, the negotiations are at a stand still.

William Bull Estate - Numerous conversations have been held with the family. At this time appraisals have been delivered (which have been made on behalf of the I.D.E.C.), these appraisals are being reviewed by Mr. Byrd in Oxford. At this time they have not been received back. As soon as they are received back they will be meeting. A proposition has been made, there has been no response pending Mr. Byrd's review of the appraisals. As far as the Bull track is concerned there is still conversation about the exact route of the tile as it passes through the land in relation to the existing easement and drain.

Robert Fox, East of 650 East on South side of the channel. They have a brand new residence on the parcel. The existing plans (proposed) show a deep and heavily improved ditch flowing past the Fox property, the Fleeman property, and the Dyer property. This improvement is totally rip-rap bottom and a high gabian retaining wall along the south side of the ditch to protect the Fox property. Mr. Fox is a contractor and has suggested to the County that it might be possible and less expensive to enclose the flow of water at this point in a large tile as it passes his property until the ditch gets into less severe terrain, which would be at the east end of his property; some 350 - 400 feet east of road 650 east. Michael Spencer has communicated this to Mid-States Engineering and they are in the process of reviewing the plans on this part of the channel.

On The north side of the channel immediately east of 650 East, land owned by Mr. and Mrs. Ray Fleeman: an option has been acquired to purchase the fee of his 1/3 of an acre, which would be totally covered by the easement required for the ditch. It is .93.

November 4, 1987 Drainage Board Meeting Continued

Dyer property immediately north of the Fleeman property. They have requested that the easement as it passes their property be reduced from 75' to 50' from top of the bank and have agreed if that reduction is approved by the Drainage Board, they will enter into an agreement to grant the easement. ~~Mr. Shook presented the request to the Board for their consideration and action. Sue W. Scholer ask if this had been presented before?~~ Michael Spencer stated, that it is not the same one. Mrs. Dyer presented request at the last meeting.

Robert Dilden property. They are still in conversation with them in regards to easements.

On the north side of the channel, east of Dyer property, the property owned by Mr. & Mrs. Ed Korschot. In files is a letter written on their behalf by Mr. Ted Smith, attorney, filing their objections. Two appraisals were made of the property. The property owners had a review appraisal made. There is a wide diversion in the values reported in a ratio 1-4. In conversation with the I.E.D.C. they have been unable to resolve in their own minds the value requested by the owners, therefore no further action has been taken since their request. Mr. Shook presented the board with copies of the original appraisal report made by Mr. Sells, review appraisal by R.&E. Research, Thomas Morlin, and a letter on behalf of the Korschots from Mr. Theodore Smith with an attachment and opinion of value given by Red Strange. They will continue to deal with the matter and report later.

Mr. Ted Smith asked to correct the record to show that the appraisal is by Red Strange Appraisal Services. Mr. Shook stated he was sorry, but it was signed Red Strange, not Red Strange Appraisal Services.

Joseph Plasphol property which is being bought on contract from Mr. & Mrs. Sanders. Option papers have been prepared and delivered to Mr. Plasphol who has forwarded them to Mr. and Mrs. Sanders. The papers have not been received back.

On the North side of the channel Mr. & Mrs. Harry Dilden have agreed to sell their easement. A signed option has been received from the Dildens.

At the foot of the ditch, the last piece to the east owned by Mr. & Mrs. Charles Chamberlin. Extended conversations have taken place. Options have been prepared. There has been a number of engineering items with which some faults have been found. I.E.D.C. has agreed to instruct Mid-States engineer to revise the plan to suit the Chamberlin's request. The Chamberlin's are waiting on Mr. Byrd to do the review appraisals. The negotiations await the out come of Mr. Byrd's report.

This concluded Mr. Shook's report on Easement Acquisition for the Parker Ditch.

W. Kelly Carr stated that Mr. Shook left out one concern of Mrs. Edith Flaningam: an existing easement entirely across her property already for the Parker ditch. These people are asking for a new easement where there has been none before, Mrs. Flaningam does not wish to have two easements. The existing Easement connects with the west end of the detention pond which they wish to drain.

Richard Donahue made a statement that the conversations that are going on constructively will continue, however there is a shadow over the situation in that the I.E.D.C. are unhappy with the lack of progress. More replies would be appreciated from some of the landowners and there is a possibility down the road that condemnation may be considered. The water that will be draining through the ditch in part will be coming from Highway right of way. If an absolute need for it would exist, the Highway Department could acquire some of the easement rights. They hope and pray this will not be necessary, but it is something that is available as a so-called last resort. They are struggling to come to an agreement with the people, Mr. Shook has done a tremendous job, but the calendar continues to march forward. There will be a time that something more firm will have to be done. They will be keeping the board posted on this matter.

W. Kelly Carr made two comments:

1. Mr. Donahue's comment about needing drainage rights for the highway. Up to this point and time the highway department has only dumped their water on surrounding property owners, this has been their method of drainage. As a property owner in order to protect himself, he had to drain the water out through an eight inch tile. He would be interested in seeing them justify a large 76 inch tile to carry the water that was formerly carried by an eight inch tile.

2. Foreign firms should be treated like American firms.

Ted Smith attorney for Mr. & Mrs. Ed Korschot made comment in regards to Mr. Donahue's condemnation. If he felt a threat of condemnation would scare people, it doesn't scare any attorneys. If there is a water problem which is going to affect the highways or wash out the highway, then the answer to Mr. Donahue and the Commissioners is to put in a better and bigger tile under the road and not have to go down the line and take land away from the people who are so far away from the highway. If that is the thought of condemnation, they are not disturbed by it.

Bruce V. Osborn stated in a response that the Dyer request for a easement less than the normal, will be taken under advisement for now. If the board starts in one area they will have to continue. Michael stated there will be more requests. Mr. Osborn again stated the reason for easements, it is to protect the right for entry and to do repairs.

Mr. Ted Smith ask who stated they were in a hurry to get this thing resolved. Possibly Mr. Donahue. Mr. Smith asked what is the big hurry? Mr. Donahue stated he did not say "big". The I.D.E.C. observes the situation of acquiring easements and drainage rights progressing very slowly in some cases. In that case if they don't move forward constructively, the thought of condemnation exists and may be considered. A couple situations are not moving forward. Some have moved forward very well. Changes have been made when property owners have ask for them to be made. The I.D.E.C. is willing to do that.

Mr. Osborn thanked the property owners for coming.

COUNTY ROAD 475 EAST

Lamar Ziegler, engineer with Clyde Williams Associates, presented preliminary drainage plans two weeks ago and today is presenting revised plans as a response to the comments made at the last meeting. Same drainage areas A, B, and C. They have raised the grade

County Road 475 East Drainage Board Meeting Continued November 4, 1987

of the ditch and widened the width of the bottom of the ditch, so water can be stored in the ditches. They need to request one waiver of the County Drainage Ordinance in that the discharge of the 12 inch pipe into Elliott ditch will be at an elevation below the 100 year flood elevation: elevation of 652.6 as compared to the 100 flood year elevation of 654.5. This elevation equates to a 10 year flood elevation.

AREA B

A drainage break at Station 86, all the water south of the station will flow to the south. The pipes in the area of 200 South are unchanged from the previous submittal. There is some retaining and storage of water in the ditches caused by the 18 inch pipe under 200 South, a new approach at station 45.50+ into the motor pool area for the S.I.A. site, a field entrance opposite the drive into the Rowe farms, the 12-18 inch pipes respectively under the two drive ways will serve to retain water, and the water in the ditches ahead of the pipes reduces some of the flow. Two additional pipes at 41.50+ 15-12 inch respectively also serve as dikes to retain the flow of water. Existing conditions for Area B are the existing 10 year flow: 19 cfs. The 100 year proposed flow unrestricted would be 38 cfs, but with use of the pipes and dikes the actual flow can be reduced to 18cfs. Area A & B total flow into Elliott ditch is equal to the 10 year undeveloped flow. They are requesting a waiver of the drainage ordinance for Area B to be allowed to discharge water and store water from Area B at an elevation of 652.48 which is equivalent to the 10 year flood elevation.

AREA C

Station 86.00+ on north to the end of the project. This has remained unchanged from plans presented October 14, 1987 except for reevaluation of some of the factors. Flows and elevations have changed slightly. Result is in Area C a 10 year existing undeveloped flow 16 cf, 100 year developed flow 41 cfs and a 10 year proposed discharge with the detention basin of 8.5 cfs. This is a substantial reduction in flow.

ELLIOTT DITCH

Per request to better drain the area, a study was made and due to existing conditions upstream, the 100 year flow is not likely to be achieved. For present conditions a more logical and achievable flow rate equal to a 10 year storm could occur. A ten year storm was calculated to have a discharge of 440 cfs and a headwater elevation of 652.48. They propose to use this 10 year storm headwater elevation as the control elevation for detention of storm water in the ditches for this project. As the area develops, developers would come in with drainage plans that would require the 100 year run off be retained and discharged at a 10 year rate.

Michael Spencer stated that he and George Schulte highway Engineer have looked at the proposal and they agree with the proposal and see no big problem of reducing the outlet elevations to the 10 year storm event elevation in the Elliott Ditch, instead of the 100 year storm event elevation because of the upstream restrictions with the railroad tracks, south of Highway 38.

Bruce V. Osborn asked Steve Murray Assistant Highway Engineer if George had alluded to the fact that the holding ponds belong to the County Highway. Mr. Murray stated, that he and George had talked briefly this morning and he had reviewed their proposal and was satisfied to this fact.

Mr. Ziegler stated that they were wide bottom ditches, they look like and are built like side ditches, they will be dry most of the time except when it rains. In the report this is explained in regards to a 100 year storm. It is a standard form of release rate.

Sue Scholer asked how much of a variance is there between the 100 year and the 10 year flood storm? About 2 feet is the answer.

They have deepened the east and west ditch in order to store water equally. The Problem they are faced with is that the land is too flat and can not store water in the area as the land is below the 100 year flood elevation.

Bruce asked what Mr. Ziegler was requesting. He requested to be allowed to discharge and store detained water above the 10 year flood elevation for drainage Area A and B.

W. Kelly Carr asked questions and Mr. Ziegler answered them.

Sue W. Scholer moved to grant the request to the 10 year flood elevation for the discharge and storage of the drainage of Area A and Area B, seconded by Bruce V. Osborn, Motion carried, Unanimous approval.

Sue W. Scholer moved to give final approval for drainage plan presented for County Road 475 East, seconded by Bruce V. Osborn. Unanimous approval.

STATE HIGHWAY DRAINAGE

Todd Frauhiger presented final drainage plans for State Highway drainage and requested approval of the plans.

The presentation is the same as given last meeting. There are no changes in drainage system of A and B. Changes for C were presented and are as follow.

At the October Drainage Board meeting, Dr. Kelly Carr expressed concern that the proposed highway detention pond would eliminate access from his future detention pond to the Parker Ditch.

After the last meeting, Dr. Carr, Allen Egilmez and Todd Frauhiger met to see if a possible compromise could be reached. The idea was formulated that possibly Dr. Carr could be allowed to discharge the 10-year undeveloped storm from his remaining land from his detention pond into the proposed highway pond. This would allow Dr. Carr access to Parker Ditch through the highway pond.

Using the TR-20 Flood routing program, it was shown that the proposed highway pond could handle the 100-year flow from the highway drainage system as well as the 10-year pre-developed flow from Dr. Carr's land. At the height of the storm in the scenario, the highway pond would reach an elevation of 660.65 and discharge a peak flow of 27 cubic feet per second.

It is therefore recommended that the Drainage Board approve the drainage plans for Area "C" and that Dr. Carr be allowed to discharge the 10 year undeveloped flow of approximately 80 cfs into the highway pond.

The new TR-20 run is attached at the end of this section, all this is on file in the surveyors office.

Mr. Frauhiger asked for questions.

Mr. Carr stated he had tried to reach Todd by phone and was unsuccessful. Todd explained that he had just been there a year and that he was not in the phone book. W. Kelly Carr had been told Todd was just an intern, this statement was not true. He is a full time employed Hydrologist.

W. Kelly asked what alternative locations they had looked at? They have looked at two other alternative beside the one presented. One possibility would be to detain the water in the Interchange area and also they looked at detaining water from land on the other side of County Road 200 South. The problem was there was not enough area and the pond would have extended over the pipe with an outlet in the middle of the pond dropping straight down to the pipe.

W. Kelly Carr asked if these were the only two areas they looked at? Yes—they also looked at detaining water in the ditch.

W. Kelly Carr asked why they decided not to detain the water in the interior area of the interchange as there is about 22 acres in the area. Todd answered that the main problem was the way the drain flows were set up the water was flowing down the Interstate from Dayton away from the Interchange, most was getting into the side ditch after the Interchange. The water coming down 38 from Dayton was the only water that could only be routed through the Interchange, the rest was coming through the system after the Interchange. Mr. Carr asked how many cfs is that water that comes down from Dayton? Mr. Frauhiger was not sure? Mr. Carr felt it could be a substantial amount of water.

W. Kelly Carr asked if they investigated the number of acres that drains into this system. Mr. Frauhiger has the figures in his files at his office. Mr. Carr felt it would be 130 acres, but Mr. Frauhiger felt it wasn't that much as the entire drainage area is approximately 200 acres.

Mr. Carr asked for his opinion, Mr. Frauhiger's opinion is 70-80 Acres. Mr. Frauhiger stated it seemed more logical to build one detention storage to take care of the whole area at the end of the watershed instead of two detention ponds. The other thing is the liability aspect. Water standing in the Interchange loop causes liability problems. Mr. Egilmez stated this is out side the Clear Zone. Mr. Carr asked what the Clear Zone was. This is a Federal Highway requirement.

Mr. Carr stated the whole disagreement revolves around the fact that currently the whole area north of 38 drains out through an eight inch tile or through a small piece that goes over through the Bull property. The Highway's need for the detention pond is for 100 year water. Pursuant to the Tippecanoe County Drainage Ordinance. Much discussion.

W. Kelly Carr stated they had not mentioned investigating the idea of using the existing S.I.A. retention pond. Why didn't you do that? From the beginning they were told that the pond would not be available to store the pond. Much discussion.

Mr. Carr stated he feels the pond is now a detention pond instead of a retention pond. He is bothered that the Highway Department is unwilling to look at idea of storing water in the interior circle for a 100 year storm level. Discussion of maps.

W. Kelly Carr asked Sue and Bruce to look at the area and how it will damage his property in value. He wants no more than a 5 acre take and he wants accurate figures. Much discussion.

Mr. Frauhiger wanted to clarify one thing. In the original agreement with the State and S. I. A. the ponds were to be used as stated. Much discussion.

Mr. Carr stated they excluded the area that the tile drains from his property from the 100 year storm. He asked why didn't they exclude the other tiled areas? They don't have that information.

W. Kelly Carr asked Michael what acreage was originally turned into him, 118 Acres? Michael stated on his assessment list he had 100 assessed acres for Parker Ditch that just included the Highway Right Of Way, but did not include the other land over by Moyer's and Blosser's.

November 4, 1987 Drainage Board Meeting State Highway Drainage Continued

W. Kelly Carr questioned the legality of the drainage on the South side. Water goes to the Elliott Ditch, water from the Moyer and Blosser property goes Northeast to the Wildcat. They are putting all that back through the Parker Ditch. This would change watersheds.

W. Kelly Carr stated this is an important discussion as this is the only public hearing this is being held on this detention pond. Mr. Egilmez stated it is not a hearing they are only presenting drainage plans to be approved by the Board. Mr. Carr asked whether there will be a public hearing on the Department of Highway detention ponds? Mr. Egilmez stated no public hearing, just drainage plans. Mr. Carr feels that drainage calculations are not final.

Michael Spencer stated he feels the Highway Department has final calculations for the Drainage Board. The finalization is between Mr. Carr and the Department of Highways.

Mr. Carr would like to see things done accurately in regards to the size of the detention pond. He asked them to look at the water run off and see if the State can't be more accurate. Discussion of 25 Acres and size of pipe.

W. Kelly Carr asked why isn't the Town of Dayton responsible for its own storm water? Most of the ground is in the Town of Dayton. Why does the State Highway have to be responsible for Urban water? Answer, it was there before all the developments came about. Discussion of detention ponds.

Michael Spencer asked how big of area did they want from you (Mr. Carr)? Mr. Carr answered they want a 1/3 of the 32 acres tract, taking the part that has the greatest visibility toward the highway. He would like for them to take no more 1/2 of that with a small detention pond on his property. Discussion of the lining of the detention pond.

Mr. Carr wanted to talk about the basic problems. Talking about water going out through an eight inch pipe, the responsibility of Town of Dayton. The state has land under their control either through I.E.D.C. or Interchange circles that they can use for a great portion of the 100 year storm. They are designing for a 10 year storm using the Interchange area. Recalculating the water take off that goes from the tiles to the catch basin northeast and that which goes off to the south they would not have to damage his property so severely.

Mr. Osborn asked how many acres are they proposing to take? Approximately 10 acres a triangle shape piece of land. Mr. Egilmez stated the detention area itself is 7.5 - 8 acres. They also are widening the existing ditch along I-65 35 feet. Widening of the ditch is on the west side with a 3 foot bottom and on the east side with a 10 foot wide bottom.

Mr. Carr asked what investigation they made in putting a pond on the 32 acres which S.I.A. took from him? Mr. Frauhiger stated he wasn't sure what S.I.A. took from him.

Mr. Carr asked what investigation was taken to put the pond on the west side instead of the east side? Mr. Frauhiger stated he knew it was S.I.A. land and they could not put the pond on the other side. Explanation was given by Mr. Frauhiger as to reason for not using their ponds.

Mr. Carr asked why is S.I.A. any different than himself?

Mr. Beeler asked who told them to avoid the S.I.A. plant?

Pat Long Of R.Q.A.W. answered he did.

Mr. Beeler asked who gave him his instructions?

Mr. Long stated Lt. Governor Mutz signed an agreement with S.I.A. that said in writing the pond would be filled in. These instructions have been followed since day one.

Mr. Carr asked the Drainage Board to consider carefully whether these are grandiose plans, whether the State Highway Department has a moral obligation to put some of the water on their own ground instead of forcing it all on his ground.

Mr. Osborn feels the argument of not condemning S.I.A. property is pretty weak.

Mr. Long stated they were given a signed agreement between the State and S.I.A. Mr. Osborn feels they don't have that right. They don't give the property owner the right.

After much discussion Mr. Osborn stated the board will take this proposition under advisement, and come back in a Special Meeting after some of these concerns are cleared up.

Sue W. Scholer stated that technically what the board is looking at is whether the drainage plans meets the County Drainage Ordinance. Answer-Correct. Mr. Frauhiger stated he wasn't sure what he could present at the next meeting. Mrs. Scholer asked Mr. Frauhiger if he had expressed the concerns presented to those who might be able to carry this further?

Mr. Frauhiger again stated since the agreement had been signed it will hard to go back and make changes.

There being no further business to come before the board, the meeting was adjourned at 10:35 P.M.

Bruce V. Osborn
Bruce V. Osborn, Chairman

ATTEST: Maralyn D. Turner
Maralyn D. Turner, Executive Secretary

Sue W. Scholer
Sue W. Scholer, Boardmember

Eugene R. Moore, Boardmember (Not Present)

TIPPECANOE COUNTY DRAINAGE BOARD
WEDNESDAY, DECEMBER 2, 1987

The Tippecanoe County Drainage Board met Wednesday December 2, 1987 with Chairman Bruce V. Osborn calling the meeting to order at 8:30 A.M. in the Community Meeting room of the Tippecanoe County Office Building, 20 North Third Street, Lafayette, Indiana .

Those present were Eugene R. Moore and Sue W. Scholer Boardmembers, J. Frederick Hoffman Drainage Attorney, and Maralyn D. Turner Executive Secretary, others present are on file.

VALLEY FORGE

Robert Grove engineer representing developer of Valley Forge stated he has had review processes with George Schulte and Michael Spencer, changes have been made in the inlet configuration. He ask to continue this till the January Board meeting and ask for final approval at that time.

Sue W. Scholer moved to honor the request of continuance till the January meeting, seconded by Eugene R. Moore. Unanimous approval given.

SHERWOOD FOREST III

Robert Grove engineer representing Chuck Sherwood requested preliminary approval of drainage plan for Sherwood Forest III consisting of 11 acres. Mr. Grove stated meetings have been held in regards to the drainage plans, two meetings were with the board and the other was with Mark Houck drainage consultant and Michael Spencer. He presented a revised submittal with the detention basin from what had previously been submitted. Previous submittal was a dry bottom basin that only handled the flow from the proposed subdivision. Concerns are with the downstream people of what they are and how they are handling the water. After talking with Mr. Sherwood it was decided that everyone would benefit if they made an effort to retain or detain water from the entire watershed. Proposal now is to handle all the waters of the undeveloped area from the 79 acres from the 164 acres, 164 acres does not have direct run off it has to through the road culvert system. How this effects the downstream area is not certain. The 79 acres does have a direct routing to the subdivision. Mark and Michael had two concerns: 1. The developer show they are handling the additional runoff from the 100 year storm in the developed area. 2. Some idea to the generation of hydrograph of what is going up stream. Mr. Grove presented study.

They are proposing to reduce run off from a peak of around 18 cfs to 2 cfs. The second thing they are looking at a wet bottom basin which would be a permanent pool (lake), reason for doing this they would get much more volume by starting from a flat surface from wet bottom. Second consideration was to contain everything in the 79 acres plus additional flow from the subdivision south. They chose a 15 cfs outlet which is a combination of 12 inch pipe which is put in to handle the subdivision with an elliptical pipe to handle the upstream area. Mr. Grove explained the permanent pool elevations. A dyke would be built 30 feet across the base which would help to elevate problems downstream, this will some point and time overflow, it will effect the peak flow that the people downstream will see from the entire watershed. They feel this will help everyone. Mr. Grove ask the board to consider the ordinance requirements that they are to reduce only the flow from the development itself. He pointed out the natural swale area.

Mr. Hoffman asked how deep will the water be? Answer 6 feet deep was proposal could be deeper.

Mr. Hoffman asked if a fence would be around the lake? No. Mr. Grove stated it was not a requirement on that type of lake. Construction plans have bank treatment around lake, there will be safety shelves. This will be presented in final plans.

Tom Jordan homeowner representing himself and other homeowners in Sherwood Forest stated he and the neighbors have concerns about the proposal. The memo of November 16, 1987 to the Drainage Board in second paragraph is concern.

They had Mr. Dan Pusey look at the plans, because of illness in Mr. Pusey's family he was unable to attend todays meeting. Mr. Jordan submitted notes of Mr. Pusey's concerns in his study of the plans. They are:

1. It is obvious to me that the reason for a permanent pool is that Mr. Sherwood needs soil to build up pad elevations for the new house sites. (This is just a statement).
2. No information is given relative to the proposed depth of the permanent pool on outlot #1.
 - a) One should question the depth.
 - b) the safety of a pond in this local.
 - c) who is going to maintain the storm water storage facility.
 - d) is it going to be deep enough for prevention of a eutrification.
3. They did not address the relative elevations of adjoining properties immediately South of OL-4-3&2. The relative pad elevations (Minimum floor elevations) should not be higher than yours. No information provided as to your protection.
4. The present flood way is being constricted by the new fill proposed for building sites. Has this decrease in potential storage been addressed in the Pool storage area.
5. The only reason I can see for digging a pool is the need

- for dirt. Economics of construction. A dry bottom storage facility would be safer, but more costly to develop due to the need to haul in fill dirt.
6. I wonder if the half foot protection grade above the spillway grade is adequate to hold back flash runoff. I was always taught that 18"-24" was needed for what is termed free board. What is the capacity of the spillway before total overspill.
 7. No dimensions on drawing?
No North arrow on drawing?
No scale on drawing?
No vicinity map.?
 8. What is flow rate of spillway before total overspill?
Will 52" CMP and ditch carry the outlet pipes plus the spillway?

Mr. Jordan stated the property owners concerns are the safety of the pond and in number 2 b,c, and d. The third one is one of his personal concern and interest. They did not address the relative elevation of the new properties in relation to adjacent homeowner properties. He is immediately South of Lot 4. Concern is elevation which Mr. Jordan has addressed the board in an earlier meeting which is on record. It is a concern of other property owners. Again Mr. Jordan requested a study to be made.

Again Mr. Jordan stressed the concern in regards to the pond in safety, health, and hazards.

John Schwab property owner representing himself and other property owners. His concern was the runoff of the subdivision with the new holding pond. Another personal concern is: What kind of protection does the property owners have against their property becoming a swamp?

Mr. Jordan asked is it legal to build up land to create a low spot in neighborhood? Mr. Hoffman stated he did not think there was anything wrong with building land up as long as water doesn't run on someone else.

Mr. Jordan is not satisfied with proposal.

Mr. Jordan asked the board on behalf of his neighbors and himself to address the eight points of Mr. Pusey's and his concerns. He stated he has talked to all the neighbors and there is no one against Mr. Sherwood developing. They are not here to stop development, but want their concerns addressed.

Michael Spencer left notes which Mr. Osborn read. His concern: Need to prove that the lowest pipe from the lake will detain the water from the development (per the Ordinance) before the upper pipe begins to run water.
Free board rip-rap etc, maintenance of water level, and water fall.

Mr. Grove addressed some of the questions, after much discussion. Mr. Jordan asked who would maintain? Mr. Grove stated that the Homeowners Association of Sherwood III would.

After much discussion, Sue W. Scholer moved to have Michael Spencer, and Mr. Grove meet with the property owners and continue this meeting Friday, December 11, 1987 at 8:30 A.M.

Mr. Spencer is to contact Mr. Jordan for meeting date.

PARKER DITCH/200 South

George Schulte gave report on 200 South and Parker Ditch. He had attended meeting with Utilities, County Highway Department, Indiana Department of Highway, Department of Commerce and other people involved with Parker Ditch project. The County Highway Department is getting involved in it due to requirements of drainage with the new roadway. Planning to improve 200 South from 475 East to Dayton Road. At this time talking about existing capacities that will be provided in the proposed Parker Drain. It is his understanding that S.I.A. is limited to a certain release rate approximately 180 cfs, he isn't sure of the exact numbers. There is an access of approximately 50 cfs in the proposed Parker drain, it goes from a 66" to 72". In order to build a County Road 200 South an outlet will be needed. A study is being made of what the County's needs are. The thing that concerns Mr. Schulte is the 72" pipe going in it is going straight, the out flow and possible developments for anybody in the same area. The capacity of 50 cfs isn't much. He doesn't know what the watershed area is. He is guessing 200-250 acres. Mr. Schulte's recommendation to the property owners in the area would be to put an open channel from the Interstate to County Road 650 East. Grant it the channel is going to be deep, going to take a lot of right-of-way or easement for maintenance, but there will be adequate capacity to provide for future development, and to give adequate drainage off of property. Another concern is the area lying to the Northeast of the Interstate and North of 200 South which Mr. Carr is involved. It needs to be considered to, make sure that has an adequate outlet. When you start putting pipe structures in that pretty well restricts what you can do unless it is more economical. Usually as a general rule it is more economical to go in with an open channel than it is with pipe. Presently they are utilizing the 72" pipe having excess capacity with about 50 cfs more than the S.I.A. requirements. He feels this may create some problems for the future development occurring in that area. He feels the best way to address that is possibly increase the size of pipe underneath the Interstate, and provide an open channel east of the Interstate rather than the pipe structure to County Road 650 East.

Mr. Osborn asked if there were other questions.

Mr. Osborn stated: What Mr. Schulte is stating there isn't going to be much excess

capacity. Correct. Mr. Schulte stated even if the area develops and complies with the Drainage Ordinance they will still have a hard time obtaining adequate drainage. Mr. Schulte stated what needs to be proven is that the excess capacity is at least adequate for future development. Some drainage problems would be created like alot of ponding, water standing, etc.

Kelly Carr commended Mr. Schulte on his report and thanked him for looking at the future in a long range view point on the project.

Mr. Schulte stated it is a fine line when you get a development coming into the community. How far and what are their responsibilities as far as providing and eliminating existing problems. There is an existing drainage problem there now. You may not know it now, but if you over develop the property you soon find out there are problems. Again there is a fine line of how much we tell I.E.D.C. what we want done. From his stand point and as far as the County is concerned we would work with I.E.D.C. and pay our fair share to make sure that we have an adequate outlet through the Parker Ditch. Mr. Schulte stated that the pipe was put in to serve S.I.A. only. The County is looking at resolving some other problems, therefore the county wants to say to I.E.D.C., "Hey we have other problems and want to resolve at the same time you are providing a positive outlet for S.I.A.". Mr. Osborn stated which was caused by S.I.A. in the fall out process. Mr. Schulte stated basically you might say this, but at some time or other it would occur. It has come to a head quick because of S.I.A.. Mr. Schulte stated what is there now is a surface outlet.

Mr. Carr stated he would like to hear what Mr. Frauhiger has to say in regards to Mr. Schulte's recommendations. Mr. Frauhiger stated he didn't totally agree with everything said, therefore he would rather not make any comments.

STATE ROAD 38/I-65

Allen Egilmez representing Indiana Highway Department stated the board has the calculations and what he wants to present today is Alternates to the Areas.
Area A

Area starts from future 475 East west to Elliott ditch. Three alternatives were submitted:

1. Storing water to 100 year storm runoff in the ditches. The way the ditches were designed they were not able to handle the runoff.
2. Considered Vaughan's property on North side of 38 close to Elliott ditch at the end of the drainage path where they would like to put detention ponds. Problems with the easements and the narrow strip left in and came in with a pond they would end up taking the whole property, even though they would not be using the whole property for the detention pond. This would result in property damages on the North side of 38.
3. Mrs. Louise Schroeder on south side of 38 at the end of the drainage path, the drainage flows from 475 East down to Elliott ditch. They got as close to Elliott ditch outside the 75' easement to build a detention pond. They made it long and narrow in order to provide her frontage and minimize the damage on her property. Calculations were included in the last packet presented.

Area B

The area had three areas.

1. Triangle SR 38/CR 475 East and Elliott Ditch. Drainage area starts at the West ramp entrance along 38 all the way to County Rd 475 East. Problem with the area which was appropriate location, was routing the water from the east side of Elliott ditch over to the pond and then back to Elliott ditch. More or less a pump station would have to be built to get the water to the triangle.
2. Between SR38 & RR east of Elliott ditch North of 38 (SIA property). Ponds along SR38 on both sides, this would result in multiple ponds, this they want to get away from because of maintenance.
3. Ditches. Would be able to store 100 year storm water runoff within the ditches because of the length of the ditches.

Area C

Area of the Interstate.

1. Interstate loops. Problems of liability caused by standing water inside the loop, outlet problems, limited depth in the loop, multiple ponds much lower ditch elevations.
2. North of County Road 200 South. Not enough area without pond extending over Parker ditch. Larger pipe under 200 South.
3. Ditches along I-65. Would require more right-of-way along I-65. Not able to back up water because of pipe at M mile Marker 169. Not able to store 100 year runoff with standard ditches.
4. S.I.A. In the agreement the existing ponds would be filled in for future plan expansion. New Detention ponds was needed S.I.A. offered ditches along I-65, however not able to handle 100 year storm runoff would jeopardize S.I.A.'s ISPCB

permit as water is monitored and can't use 66" outlet pipe. New pipe under 200 South resulted in larger pipe at I-65. Main reason they didn't build on S.I.A. property is that 87% of the drainage area is on the east side of the Interstate. If the detention pond was put on the west side there would be a problem of rerouting water back across to pond where the water is being monitored..

This concluded Mr. Egilmez presentation.

Bruce V. Osborn stated the Department of Highways has fulfilled their obligation relative to the Ordinance. Mr. Osborn asked for questions.

W. Kelly Carr and Lewis Beeler asked questions and they were answered by the representatives of Indiana Department of Highway.

W. Kelly Carr asked the Drainage Board to have Michael Spencer to check the acreage as he feels the acreage isn't accurate. After checking figures and if it is found that the figures are correct and if the Board would approve the plan, the Board should ask them to include in their arrangement the opportunity for Mr. Carr to drain water through the detention pond into the pipe to the north and they should be instructed to give Mr. Carr a written agreement to this effect. Mr. Frauhiger stated that he and Mr. Carr need to pursue that further.

Area C addendum states that Mr. Carr's property has access to a positive outlet to Parker Ditch through Department of Highway he detention pond for the 10 year undeveloped flow. When Mr. Carr develops the property he will be responsible for building a pond system to detain the 100 year storm. Discussion continued.

Loren Schroeder representing his mother Louise Schroeder asked the representatives questions and expressed their concerns of maintenance, damages, the 75' easement, and turning the pond around the narrow end being to the front. State Highway representatives answered questions asked.

Mr. Schroeder asked if Elliott ditch was going to be recut and have enough volume to drain all the adjoining land. Mr. Osborn and Sue W. Scholer stated that a Task Force is studying the Elliott ditch and it is 80% completed. Upon completion a report will be submitted to the Drainage Board.

Eugene R. Moore asked Mrs. Schroeder if she had had all her questions answered. She stated that at the present time she has no drainage problems and she has great concern of having problems in the future with the changes being made. The 75' foot easement, maintenance and damages she was instructed by Mr. Egilmez to put them in writing and send her concerns to the District office. Mr. Frauhiger wants to meet with Mrs. Schroeder and have discussion in regards to field tiles.

Mr. Osborn stated taking, in consideration of Mr. Carr and Mr. Beeler's statements, in concern about the mileage, the total acreage he entertained a motion for approval of plans submitted by the Indiana Department of Highway.

Sue W. Scholer moved to give Indiana Department of Highway approval for the final drainage plans submitted contingent upon Michael Spencer's confirming acreage and mileage to Mr. Carr's property as being correct, seconded by Eugene R. Moore. Unanimous approval.

OSHIER DITCH

OSHIER DITCH

A letter received from Audley Oshier signed by Bernice Hawkins etal, Gene Brummet, Lynn Hawkins Trust Farm by Wayne Buck requesting an added tax be added on the present rate of .50¢ per acre assessment. The Oshier ditch needs to be finished up on a clean out as existing tiles in some areas are beneath the existing ditch bottom. The letter ask the board to give this immedaite attention to prevent future crop damage. The board will set a hearing date in early 1988 and act accordingly. Letter was dated November 9, 1987.

There being no further business to come before the board, the meeting was recessed at 10:40 A.M. and will reconvene Friday, December 11, 1987 at 8:30 A.M.

Bruce V. Osborn

Bruce V. Osborn, Chairman

Sue W. Scholer

Sue W. Scholer, Boardmember

Eugene R. Moore

Eugene R. Moore, Boardmember

ATTEST: *Maralyn D. Turner*

Maralyn D. Turner, Executive Secretary

TIPPECANOE COUNTY DRAINAGE BOARD
Wednesday, March 2, 1988

The Tippecanoe County Drainage Board met Wednesday, March 2, 1988 in the Community Meeting room of the Tippecanoe County Office Building, 20 North Third Street, Lafayette, Indiana.

Chairman Bruce V. Osborn called the meeting to order at 9:00 A.M. with the following being present: Eugene R. Moore and Sue W. Scholer Boardmembers, Michael J. Spencer Surveyor, J. Frederick Hoffman Drainage Attorney, Mark Houck Drainage Consultant, and Maralyn D. Turner Executive Secretary, others present are on file.

WESTON WOODS SECTION I

WESTON
WOODS
SECTION I

Tom McCully representing Bill Long and Lee Treece stated they are seeking approval of Weston Wood Section a single family residential subdivision on McCarty Lane east of Creasey Lane. There are 17 lots in the first section. Mr. Coutts explained how it will tie in with an apartment project proposed west of and to the over all Treece drain.

Mr. Osborn asked how many sections there were? Mr. Coutts answered this has not been determined. Acres involved 32, Section I consists of 5.1 acres,

Area within the 200 foot PSI easement will be used for detention storage areas utilizing a 1.00% bottom slope with a 3.1 slope at the edge of the easement. This being a very usable and mowable rear yard area that will function as storage when needed.

Mr. Coutts explained Weston Place Apartments will have two detention storage areas with base storage are proposed to replace the inadequate "dry" storage area as part of the Treece Meadows Legal Drain. Each pond will be capable of storing four feet of additional water volume above the normal low water elevation. The southern pond has a mid-level are of 1.9 acres and the northern pond is 1.5 acres at the mid-level storage height. This provides a total of 13.6 acre-feet of storage. For a 100-year, one-hour storm (2.72 inches), the total volume of water with no ground absorption would require 4.37 acre-feet of storage with no release rate. Table B with no release rate and no other inflow indicates a need of about 5.6 acre-feet for heavier storms.

As a result, an additional 7.8 acre-feet of storage is created over and above with this particular project would require. The 24" outlet pipe is overlay restrictive when the upstream inflow from McCarty Lane (approximately 18 cfs) is taken into account and the inflow from Weston Woods Subdivision (1.59 cfs) is also included. Too much water comes in from the north at McCarty Lane and Too little is allowed to leave the site. As a result, even with the additional storage proved as part of this project. Table C indicates that additional downstream detention storage need to be made as part of future developments.

Mr. Coutts presented the tables and they are on file. The proposed Storm water management system for West Woods Subdivision utilizes three rear yard areas for temporary storage of storm water being northern, southeastern, or southwestern detention areas. Pipes leading to these areas checked against a 100 year storm. The outfall pipe from West woods Subdivision (12" rcp @ 0.20%) will discharge into the Treece Meadows. Legal Drain in the proposed Weston Place apartment project.

Lots are deep and are in easement they have 100' rear yard. Mr. Osborn asked if this was for all easements? Answer No. They would restrict electric and telephone to 10' easement inside the PSI easement, they don't want it at the bottom of the detention area.

Mr. Hoffman asked if they were going to have the detention area for storing water underneath electric lines? Answer correct. Mr. Hoffman stated we have had this problem before and the board doesn't like this.

Mr. Coutts stated that they are talking about no more than a 3' depth situation and for a heavy rain there would be water in basin for 3-4 hours. Mr. Hoffman stated again this is a liability concern. Discussion continued.
Mr. Osborn asked how they proposed to maintain? Mr. Coutts answered, people maintain.
Mr. Osborn asked if this would be written in? Yes.

Mr. Hoffman asked if there would be a restriction of them covering it up? Mr. Coutts answered this would come in with Area Plan Commission for the enforcement.

Mr. Osborn asked about the outlet. Mr. Coutts stated they have discussed their proposal with Michael Spencer in regards to the outlet pipe in working out with the Treece Meadows Legal Drain. What they would like to do is put a pass through situation around the western end, use the extra storage and tie it into the Treece Meadows Legal drain in regards to the release.

Mr. Moore has questions in regards to the south holding pond. Michael stated they would be putting in a new holding pond.

Fred Hoffman asked if they had written permission from the PSI to store water underneath their lines on their easements? Mr. Coutts stated they have talked with them, and verbally they do not have a problem with it, nothing in writing, they wanted to come before the board to get approval before asking for permission from the PSI. They have two parts that they will need to get permission for. Beside the detention area they have to get permission to take the road underneath the power lines. PSI wants a firm construction plan. PSI's concern was that they did not want any permanent storage underneath the lines.

Sue W. Scholer asked if they were doing away with the detention pond at the apartment development? Yes and they are replacing it. She asked what they were wanting to pass through? Mr. Coutts explained the one problem in the total watershed area either they will have to take an put in alot larger area upstream and restrict it more severely or pass something through and consider adding more storage area. They feel they can't handle all the flow through their project.

Eugene Moore asked how they were going to get rid of water coming out to Creasey Lane? Mr. Coutts stated this had been discussed, the question is should they actually run another pipe down to discharge into Wilson ditch? The feeling of Michael Spencer and Mark Houck was that no more water should go into Wilson ditch. They are proposing to hold in their ponds and use the existing outlet pipe and not put any more water into the Wilson ditch.

Mr. Osborn asked if the holding ponds they are showing, are they for the entire 32 acres. Yes. Mr. Coutts went through tables presented and they are on file.

Mr. Hoffman asked how close will the water come to the houses. Mr. Coutts stated the pads will be 2' higher. For 100 year flood talking about 20' away. Depending how far house will be built to the easement. Discussion continued.

Michael Spencer stated alot of the Weston Woods area is not in the Treece Meadows Legal drain it is tributary to the Elliott ditch, it drains into a low area then into an existing agricultural field tile into the Wilson branch. This he has question. Much discussion.

Discussion of transferring water from one watershed area to another.

Michael stated the Elliott ditch and Treece Meadows are combined. Problem is with the branch they want to bring the water into.

Sue asked if the proposal was to become a part of the Treece Meadows legal drain? They are not anxious to become a part of the legal drain. A hearing would have to be held.

Mr. Coutts asked what great advantage would the board have as far as that becoming a legal drain? Maintenance. Discussion of maintenance was held.

Mark Houck has concern in regards to water running from Weston Woods into Weston Place. Partial development of Weston Woods would need to come in with a permanent plan. There will be alot of water coming down out of Treece Meadows, there would be flooding. The 100 year design storm is not accommodating with ordinance. This is Mark's concern. Won't be holding new water.

Michael Spencer recommended to have more time to study calculations presented today.

Sue W. Scholer moved to take under advisement the plans submitted to allow Michael Spencer to look at the calculations, seconded by Eugene R. Moore, unanimous approval to motion.

PARKER DITCH

DICK DONAHUE attorney representing Indiana Employment Development Commission filed a petition to vacate eliminate and reconstruct Parker Drain. This being a result of a meeting held at the SIA site. Petition presented asked to remove two segments from the earlier petition presented, to reconstruct part of the now existing Parker Ditch and that a hearing be set by the Drainage Board. Surveys are attached to the petition.

Michael stated the original petition was filed June 12, 1986, they are deleting a part/adding another part.

A date for the hearing will be set as soon as a 30 day notice is sent to the property owners. A special meeting will be set.

WILDER DITCH

Mark Houck wanted the board to know that Robert Grove had done an excellent job. The board expressed their appreciation for the efforts that Mr. Grove had done. The structure is to be in by April 10, 1988.

VALLEY FORGE PHASE III

Robert Grove engineer representing developer was back to ask for for final approval he had been before the board in February approval was given subject to further review of technical information and that plans be in compliance with the Tippecanoe County Highway Engineer.

Michael stated plans have been submitted they are in compliance with the Drainage Board, he stated there are some problems with the vertical curve and the road which Mr. Schulte isn't satisfied with. Mr. Hoffman asked if this would effect the drain? Michael stated some what. This doesn't meet highway ordinance in length of vertical curves. Hoffman stated any approval was going to have to be subject to approval by Drainage Board.

Sue W. Scholer moved to give approval subject to Michael Spencer surveyor's approval of construction plans, seconded by Eugene R. Moore, unanimous approval

SHERWOOD FOREST SUBDIVISION PART III

Robert Grove engineer representing Chuck Sherwood requesting preliminary approval of

PARKER
DITCH

WILDER
DITCH

VALLEY
FORGE
PHASE
III

SHERWOOD
FOREST
PART
III

March 2, 1988, Sherwood Forest Part III Continued

Sherwood Forest Part III, 14 lots on 11. acres. Mr. Grove has been before the board before.

Mr. Grove went through plans. Original proposal was to provide some relief downstream from upstream watershed. What they want to do now is handle their own water allow the upstream water to pass through, proposal is a structure across the waterway which provides only a 12" outlet for subdivision water only. Lake/pond would have permanent pool elevation of 644.00. They have 100 year storm plan.

Property owners John Schwab and Robert Pierret were present.

Mr. Hoffman asked whose property does the water back up on? The water right now stands is constricted downstream in Sherwood Forest, there are difference in structures in the subdivision.

Mr. Grove stated they don't have the 100 years have to pass the 50 year through their facilities. They want to set it up so it will pass the 100 year so water is not backed up.

Mr. John Schwab and Robert Pierret representing property owners expressed concerns and had questions as following:

1. From the retention structure what kind of channel improvements are planned to accommodate 100 year storm runoff?
2. On the small dam, type of material to be used (note ground back in there is poor) solid material is needed. This would have to be brought in from outside 6" of rip-rap on spillway. The silt when wet won't have the proper structural integrity. Clay is needed.
3. Requirements in drainage ordinance about permanent pool; Who will have the responsibility for it? Maintenance of lake. Safety is a very major concern.
4. Has location for high pressure gas main in the vicinity been taken into consideration?

Mr. Grove answered the questions as follow:

The channel will see slightly less water and they plan to clean it up and that's it.

Michael Spencer asked if they planned to dig a new channel? No, just clean out.

Michael asked if the fill on the side of the road would push wide expanse of water as it is now further off to the east.

They don't see any problems. Their not changing elevation.

Mr. Schwab's concern is if it is a big wide flood plan there won't be much vertical increase, mean a big horizontal increase.

In discussion one major concern of the property owners is the safety with the pond/lake.

Much discussion on plans presented and how they effect the property owners of Sherwood Forest. Mr. Grove stated the developer doesn't have to pass the 100 year storm, 50 is all they are required to pass, any changes in the channel should be based on the 50. They are doing the 100 year storm to keep minimize problems upstream, not trying to solve any problems down stream.

Mr. Schwab had concerned about the cleaning of the channel, it will be grown up within a years time, the area is marshy.

Mr. Grove stated as far as maintenance he thought Mr. Sherwood was going to have it put into Homeowners Associations, however he would not object to having the County maintain, if set up on County standards. The Board stated that it would have to be a legal drain for the county to maintain. Mr. Grove stated they don't want a legal drain, there's no reason to form a legal drain.

Mr. Pierret stressed his concern about the safety around the pond. Mr. Grove stated the ordinance calls for a safety ledge no more than 3' under water, 4-6' out from sides of pond. They will address it fully in the final plans.

Mark Houck asked if they were going to redirect water out from the field tile? If it is operating upstream they will tie into it.

Mark Houck stated if they were to encroach on an area that is under water during a 100 year storm by putting building pads out there, this would be okay as they are reducing the flow in the area, this would reduce water surface elevation also below the dam. Mr. Houck asked, putting in the pads would increase it and be compensating? Mr. Grove stated he wasn't saying that for the 100 year storm, he is saying all they have to take care of is the 50 year storm. Michael asked where it states that in the ordinance? Discussion of ordinance Page 15-2. Section 29

Michael stated the big questions is where they are crossing other property, he is not convinced that they won't be pushing the flood plane off. Discussion continued on the 50 year storm.

Mark stated that the responsibility of Mr. Grove is to not pass more water through than what is going through there now, and not reduce the flow upstream.

Mr Schwab stated that the property owners are concerned about Mr. Sherwood and Mr. Grove meeting with them, especially Mr. Jordan, they feel a meeting as a group should have been held.

Again discussion took place on all the questions asked by Mr. Schwab, plus Mr. Jordan's concern about being flooded as he is below what Mr. Grove has designed. Much discussion in regards to elevation at Mr. Jordan's property.

Michael Spencer stated in regards to the pond, the developer has the choice of going wet

or dry bottom.

Mr. Hoffman stated this is correct, however if they go wet bottom they have to put the safety ledge in, bank treatment, access, a number of items in the ordinance address this.

Mark Houck stated the big issues are the encroaching and the effect of water surface elevation, erode ability of structure and the effect of down stream channel. These need to be addressed in the Construction Plans.

Mr. Grove stated at the base it is 35' wide at the top there is a 10' wide bank or berm, channel runs about 20' cover the whole thing with rip-rap, the water for the 100 year storm backs up 2' an additional 9" of water will go through the spillway. He feels this is nothing major.

Mr. Hoffman asked about putting water on a neighbor, much discussion.

Mr. Grove stated that the swale is not a sheet run off, it is a swale that serves 220 acres.

Mark Houck stated he isn't sure how deep the water is now coming down during 100 year storm it is over a wide expanse, what is going to happen it will run into the block and will not be channeled through weir or between two pipes, which means the width of flow is going to be restricted and when it goes below the structure the velocity right below the structure will be a little higher and will cause eroding until the water spreads out again into the existing width of the flow, and over the area erosion control needs to be provided. This needs to be addressed.

Mr. Grove again asked for preliminary approval on one condition in regards to the 50 year storm, Mr. Jordan's property elevation. He asked not to hold them up any longer on their plans.

Michael stated he didn't think they were talking about Mr. Jordan's property, they were concerned about Mr. Schwab's property.

Michael again stated they need to know if the water is going to spread.

Mr. Grove asked the board to let him loose to design the project. Mr. Grove feels there is no problems with the Jordan property. Mr. Grove is willing to check out the water elevation in the flatter area.

Michael stated that if Mr. Grove can show the board that the elevation does not change and is not different from what happens today, he would agree with Mr. Grove as long as he doesn't make it worse. This is what were here for. Michael will look for this in the construction plans.

Eugene R. Moore moved to give preliminary approval conditional on Michael's review and approval of water elevations due to encroachment on existing flood plan, seconded by Sue W. Scholer, unanimous approval.

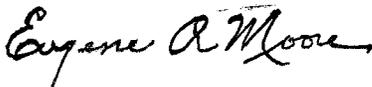
There being no further business the meeting was adjourned at 10:50 A.M.



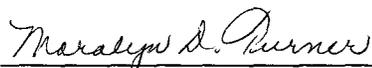
Bruce V. Osborn, Chairman



Sue W. Scholer, Boardmember



Eugene R. Moore Boardmember

ATTEST: 
Maralyn D. Turner, Executive Secretary

TIPPECANOE COUNTY DRAINAGE BOARD
WEDNESDAY, APRIL 6, 1988

Chairman Bruce V. Osborn called the meeting to order at 9:00 A.m. in the Community Meeting room of the Tippecanoe County Office Building, 20 North Third Street, Lafayette, Indiana.

Those present were: Eugene R. Moore and Sue W. Scholer Boardmembers, J. Frederick Hoffman Drainage Attorney, Michael J. Spencer Surveyor, Mark Houck Drainage Consultant, and Maralyn D. Turner Executive Secretary, others present are on file.

Farmington Lakes Estates

Richard Boehning representing Phil Kemmer, Kemmer Construction, Inc. working with Charlie Ingram CME Builders. Robert Grove engineer representing developer stated they are proposing to develop 57.64 acres as 61 single family lots, located East of County Road 400 East and 1/2 mile South of County Road 300 North. The proposed development is located immediately North of the water shed line to the Wildcat Creek, the entire area now drains to the North and West to Dry Run. The outlet for this area is the side ditch along the East side of County Road 400 East just South of Willow Wood Subdivision North to the railroad tracks where the channel becomes more defined and flows now to Dry Run. The watershed area for the development includes and addition 20.9 acres located East and South of the development. Developer is proposing to accept this off-site water at three locations and route the runoff through the proposed storm water system for the development. Proposing to put in three lakes consisting of 6.70 acres. Lakes are for a center piece, however they will be used to retain and control the storm both from the subdivision and the off-site area. Two lakes 2.20 acres and 3.50 acres are to be located central to the subdivision and a 1.00 acre lake is to be located at the outlet to the Northwest. Proposing to take 100 cfs on the 100 year storm and reduce that to 4 cfs at the outlet.

Bruce Osborn asked where they were outletting? They will be outletting down in the corner into the existing side ditch. How big of pipe? Outlet pipe will be 12". Ditch has been graded and cleaned up clear back to the property.

Mark Houck stated there are several questions to be answered in order to give preliminary approval, but no substantial problem.

Michael Spencer stated the biggest problem, but he knows that Robert will address it in the construction plans, is the outlet structures from pond to pond, erosion control plan. One thing Michael requested was that the assessment of what is going to happen down at the Willow Wood entrance. Mr. Grove stated he didn't see any problems. Mr. Osborn asked if he was requesting that they not pipe it to the outlet?

Robert Grove stated the drainage ordinance requests a 6 to 1 ramp for access to each lake, the developer would like to have an exception to the rule, they plan to provide access to the lake maintenance, but the grading they have around the lake is not 6-1. Michael Spencer stated he doesn't have any trouble with that.

Sue W. Scholer asked how these lakes would be maintained? There are two options, they have selected the option of a Homeowners Association, the other would be the County would maintain which would require the creation of a legal drain.

Michael Spencer asked how would they address the maintenance? Richard Boehning answered by stating they would address that with a covenants in the Homeowners Association consisting of homeowners who are around the two center lakes. Michael asked what about the third lake. Mr. Boehning stated the third lake (small one) would be maintained by the adjoining lot owners per covenants.

Hoffman asked what would happen if the homeowner didn't maintain? Mr. Boehning answered it would be a violation of the covenants.

Mr. Boehning stated that they are looking at the lakes in the subdivision as an asset, the board is looking at the drainage aspects. The lakes are not a retention facility.

Mr. Osborn stated it is going to be a welcomed addition.

Mr. Grove stated the second thing he would like to request, they would like to go in and complete all three lakes and all outlet systems. The contractor would like to have some phasing, if there are no streets they are requesting that they be allowed not to put inlets into the system till they come in and build the road.

Michael stated he has no problem with that, but he would like to see the phasing in construction plans showing what they are going to pick up. Discussion was held.

Sue W. Scholer moved to give preliminary approval to drainage plans for Farmington Estates Lakes, seconded by Eugene R. Moore, unanimous approval.

PARK EAST PHASE I

Robert Grove engineer, representing developer requested preliminary approval of drainage plans for Park East Phase I consisting of 27 acres. Mr. Grove stated they had been before the board earlier and obtained approval for the conceptional plan. They are proposing to drain the area to detention basin constructed for Red Roof Inn which goes into the Farrington Apartments, the allowable release rate for Farrington Apartments is .5 cfs, they intend to use that outlet, looking at a runoff of 163 cfs. They are requesting to put in a lake in Phase 1 with volume of 3.22 acre feet, use the existing outlet, 2-2 1/2 foot of live storage at the point and time the lake would over flow

through a pipe system into the interim basin on out discharging to the existing pipe under the Interstate. Phase 1 basin will be connected to the interim basin by twin 42-inch pipes which are to remain and ultimately connect to the future storm.

Mr. Osborn asked if they needed to get permission from the state. Mr. Grove stated there wouldn't be any more water going in there than what is going in there now. They are by passing some of the problems that are existing there now.

Mr. Osborn asked about maintenance later? Mr. Grove asked Tom McCully to address the question.

Michael stated this brings up questions as it is in the watershed area of Alexander Ross legal drain. Don't know who the property owner is where the interim basin would be, or the temporary outlet swale.

Mr. McCully went through the maps with the board explaining the transactions that have taken place, and the property the developer now owns or will be acquiring in the near future. When they come before the board for final approval they will own the property in question.

Michael stated that was their biggest question. Michael stated he would like to see a drawing showing the existing drain and its easements to see if they are getting involved with the drain, the old agricultural tile, and easements. Some legal steps may have to be taken to make sure all is satisfactory. The developer was aware of this.

Mr. Hoffman was concerned about the temporary pool and permanent pool. He asked is it going through a pipe or is flooding? Its all pipe, the existing outlet will be building up 2 foot of water at that point it would over flow into the structure which is serviced by the 2 42" gravity pipes on into proposed basin proposed with 1 27" pipe out, ditched in the area that the ultimate storm sewer would go which the ditch would follow the same line. No new pipe will go under the Interstate at this time. Water is being discharged to the surface into the existing pipes.

Michael Spencer asked what happens to the existing maintenance agreement of the Red Roof Inn on the pond they have today? Mr. McCully stated they are going to modify the agreement with Red Roof Inn. What they want to do is improve the drainage situation for Red Roof and Mountain Jacks consolidate it so that an easement will be released giving them a new easement. Their outlet would have to be modified. This is detention now, it will be a lake, it will be permanent with storage on top.

Sue W. Scholer asked if the board needed a letter to the fact that there is a maintenance agreement? Mr. Hoffman stated the board should have a letter in regards to the maintenance agreement.

Mr. Hoffman asked while they are doing this, there will be no increase of run off. Mark Houck stated once the interim and the permanent pool was established there is going to be more water. Much discussion.

Michael Spencer asked in the final plans they address the drainage ordinance in regards to the permanent pool showing the existing ditch, grades on the swale and the pipe. Mr. Hoffman stated the board should have that before giving preliminary approval. If it would interfere with the legal drain the property owners in the legal drain watershed area would have to be notified. Mr. Grove doesn't think there is any problem with what they are doing with this phase. Mr. Hoffman stated could have a problem if the tile would be cut.

Mr. McCully asked if they need to get preliminary approval now or whether they should get preliminary approval subject to Michael Spencer's confirmation that the plans do not affect the ditch. Mr. Hoffman stated that if Michael thinks it does not affect the tile, there would be no reason to go ahead and give preliminary approval, but if it does affect the tile there should not be any preliminary approval given. Discussion was held.

Sue W. Scholer moved to grant preliminary approval for Park East Phase I subject to confirmation to the County Surveyor that the legal drain is not affected, seconded by Eugene R. Moore, unanimous approval.

Wilder Ditch

Mr. Osborn stated he assumed the Raymond Miller project on the Wilder ditch had been completed. Mr. Grove stated that everything he was supposed to do has been done, and Mr. Kelly has not called Mr. Grove to stake the project. Mr. Hoffman stated he will be in contempt of court if it is not done by April 10, 1988.

KINGSRIDGE SUBDIVISION

Robert Grove engineer representing Lafayette Bank and Trust requested approval of a drainage revision for KingsRidge subdivision. Previously there had been a verbal agreement between CME Builders and adjoining property owner in regards to the basin. Mr. Meshberger of Lafayette Bank and Trust stated the agreement did not follow through with the transition of the property and the other property owner. Lafayette Bank and Trust now owns the ground.

Detention Basin #2 as originally proposed was to be located on the East side of Drawbridge Lane approximately 600 feet South of Castle Drive. About one half of this basin was to be placed in an easement on adjoining land, This easement is no longer available for detention. The remaining area is not large enough to construct the

required storage. The developer is proposing to relocate Detention Basin #2 further South behind lots 19, 20, and 21 and East of Drawbridge Lane. The relocation will allow routing additional runoff through the basin. Approximately eight more acres will be served by the new basin. Runoff from the tributary areas will be piped under Drawbridge Lane and the stream and discharge directly to the new basin. The basin is to act as a diversion facility for the stream. They are proposing to construct a diversion structure across the existing stream. The structure will consist of two rectangular weirs. The main stream weir is to be 10 foot long and 12-inches deep with a capacity of 32.45 cfs. A second weir is proposed to run at 90 degrees to the main stream to route flow through the basin. This weir is to be 15 foot long and 18-inches deep. The basin weir is to be 6-inches lower in elevation than the main stream weir to allow flow to enter the basin before it continues on downstream. The capacity of the basin weir is 89.58 cfs. The total capacity of the weir structure is 122.00 cfs.

Mr. Hoffman asked if this was the land where they were going to run the water across to the Wildcat Federation land to get to the Wildcat Creek. Michael stated now it will go back into the existing channel where it runs today. The existing channel crosses under the road around the corner to the little park. There's a double set of culverts under the county highway.

Mr. Hoffman asked if it was in the flood plan? He stated a storage basin can not be in the flood plan. This needs to be checked.

Mr. Grove stated there is probably 100 acres coming into the watershed. Mr. Grove doesn't recommend an orifice plat, but if the board requests it, they would. Michael agrees with Mr. Grove. Much discussion was held in regards to the orifice plat.

Mr. Grove stated that since this project was approved a few years back he is asking approval of the revision and to get the construction plans to Michael Spencer and Mark Houck and not have to come back for final approval.

Mr. Hoffman stated that it bothers him that there will be more runoff, this is contrary to the ordinance and the whole idea behind the ordinance.

Sue W. Scholer asked how the maintenance was going to be handled? Mr. Meshberger stated they are going to set up for maintenance the particular area at the discretion of the homeowners. Homeowners association is already established. They are aware of the maintenance.

Mr Hoffman's recommendation was that they have to restrict the flow pursuant to the ordinance.

Bruce Osborn asked if the homeowners would be responsible in keeping the orifice clean. Answer yes.

Mr. Meshberger stated the homeowners want it that way. They recognize that often cases people owning property adjacent will not take care.

Michael asked that Mr. Hoffman check the language out in the homeowner association agreement. Michael stated he has no problem with the preliminary approval only because they have not seen the final detailed construction plans for the total project (the revision). He wants to go over that and the orifice plat to make sure everything is in line. He would say then that final approval could be given.

Sue W. Scholer moved to grant preliminary approval to the amendment of the drainage plan for Kings Ridge subdivision Part III in replat of lot 14 and 20 in Part II subject to the revision that the County Surveyor needs to approve, seconded by Eugene R. Moore, unanimous approval.

A special meeting will be held for Kings Ridge subdivision if requested.

PARKER DITCH-EASEMENT DISCUSSION

Jim Shook representing IEDC to secure easements from the property owners for the reconstruction of the Parker Ditch together with some additional easements for the extension of Parker ditch from Road 650 East to the Wildcat creek. Mr. Shook laid plat before the board which was a sketch of its entirety from Parker ditch intersection with 200 South running North through Mrs. Flaningam's property under I-65 through the property of the Bull Farm under road 650 East running to the Wildcat creek. There are 10 property owners along the course of the ditch. On behalf of IEDC he has negotiated with each of the property owners and have agreements from the property owners to grant options to the IEDC for the construction of the ditch. Some of the agreements are conditioned upon a reduction in the width of the easement as prescribe by ordinance, which in the case of an open ditch is 75' from top of bank and 75' from the center line of the pipe. Easement reductions are marked on the map as requested. On the Bull Farm the majority of drain will be in a large buried pipe, on the extreme East end of the property will flow into an open improved channel following along the present water course, the owners are requesting that the easement be reduced from 75' from top of the ditch to 50' from the top of the ditch both sides. As the drain passes under road 650 East-400-500 feet it will be in a larger super span (CMP) pipe, because of the nature of the already existing improvements it is necessary to ask for a reduction along the South side of the pipe from center line 75' to 37.5' so that the easement doesn't run through the existing improvements, on the North side of the same pipe reduce from center line 75' to 50'. On the North side of the pipe would be through Fleeman and Dyer property. Moving East from Fleeman and Dyer through some very tight terrain would ask for a reduction from 75' from the top of the ditch to 50' from the top of the ditch as it passes through Robert and Vicki Dilden and Mr. & Mrs. Edward Korschot property, pass

that property going to the East goes out into relative flat land and can stay within the easements prescribed by the ordinance. East of the Korschots is Sanders, contract purchaser Joseph Plasphol, Mr. & Mrs. Harry Dildgen and Mr. and Mrs. Charles Chamberlin, there is no reduction in this area.

Mr. Shook stated with the Boards approval of these requests they could move to finalization of these options within a week to 10 days. The owners and IEDC have agreed on the terms with these conditions and others.

Sue W. Scholer asked what the half width on the structure? Answer 10 feet.

Discussion on how work could be done on the easements.

Mr. Hoffman stated official approval could not be granted today, but the landowners need to know the board will grant them approval before they can get the options signed.

Jeff Helmerick attorney representing the Edward Korschots, stated the Korschot property is affected by the open ditch area. They ask that the board grant the request of the reduction from the top of bank on the easement. The Korschots property is less than five acres, by reducing it keeps the property marketable, the reduction of 25' is the only way they could live with the situation.

W. Kelly Carr asked if 50' easement is all they need? Due to the terrain they are squeezed for room.

Lewis Beeler who is part of the Bull farm question in regards to the area of the open ditch area, they would not be working. Michael stated the way he understands is they will be working down in the ditch.

Question of how wide the ditch would be. In answer in some areas talking 40' wide some narrower and some wider.

Eugene R. Moore stated he would go along with the reduction and have Jim Shook come back to the next meeting with his final request.

Sue W. Scholer stated she would go along with the reduction. She had one question in the 37.5' reduction area.

Bruce V Osborn agreed to the reduction and asked that Mr. Shook come back to the May 4, 1988 meeting at 9:30 A.M.

DRAINAGE ORDINANCE

Mr. Hoffman read the changes recommended for the ordinance, they are as follow: For the record.

Adoption of changes will be after changes have been entered printed and studied.

1. Page 1, Section 3 change the title to read, "Compliance with this and Other Ordinances."
2. Add the following at the end of this section, "No building permit shall be issued for the construction, extension, remodeling, alteration or repair of any proposed or existing building in Tippecanoe County, except single family dwelling houses in approved subdivisions, until the plans for such construction, extension, remodeling, alteration or repair have been approved in writing by the Tippecanoe County Surveyor and the Tippecanoe County Drainage Board."
3. Page 3 change the definition of Impact Areas.
4. Page 4 add the following definition between KK and LL, "Regulated Drain -A drain subject to the provisions of the Indiana Drainage Code, I.C.-36-9-27."
5. Page 12, Section 8A, line 3 change "10" to "100".
6. Same Section 8A (2) change "50" to "100".
7. Page 16, Section 8 (3) change "25" to "100".
8. Page 23, Section 12 (3) change "ten" to "one hundred".
9. Page 30 add the following Sections 12 & 13 to F:
 "12. NO detention basin or other water storage area, permanent or temporary, shall be constructed under or within ten (10) feet of any pole or high voltage electric line.
 "13. No residential lots or any parts thereof, shall be used for any part of a detention basin or for the storage of water, either temporary or permanent."
10. Page 32 add the following Section 8 to Section H at the of the page:
 "Section 8: Basins designed with permanent pools or containing permanent lakes shall be surrounded by a non-climbable chain link fence at least six (6) feet in height plus a barb wire suitably posted to prevent unauthorized entry into the pool area".
11. Page 34 add the following Section S to Paragraph 14:
 "Section S: Detention Systems shall be Regulated Drains: All storm water detention systems shall be incorporated into a regulated drain under the jurisdiction of the Tippecanoe County Drainage Board; and, if no regulated drain exists in the area, the Developer shall petition to establish such regulated drain pursuant to the provisions of I.C.-36-9-27-54, and the drainage plans shall not be approved until such petition is submitted in a form approved by the Surveyor to the Drainage Board."

George Schulte will submit changes in regards to Impact and other areas.

Robert Grove has input for the ordinance.

Michael Spencer asked question in regards to the last Section that Mr. Hoffman read. Question: Is it permissible for the developers to make boundaries of his development a

DRAINAGE BOARD - REGULAR MEETING APRIL 6, 1988

legal drain? Michael used Farmington Lakes Estates as an example. Mr. Hoffman answered, the way he has it written, the developer could. Discussion was held.

Sue W. Scholer questioned the fencing rule, this would affect the request of Farmington Lake Estates. Discussion was held.

Meeting adjourned at 10:35 A.M.

Bruce V. Osborn

Bruce V. Osborn, Chairman

Sue W. Scholer

Sue W. Scholer, Boardmember

Eugene R. Moore

Eugene R. Moore, Boardmember

ATTEST: *Maralyn D. Turner*

Maralyn D. Turner, Executive Secretary

TIPPECANOE COUNTY BOARD OF COMMISSIONERS
WEDNESDAY, MAY 4, 1988

The Tippecanoe County Drainage Board met at 9:00 A.M. in the Community room of the Tippecanoe County Office Building, 20 North Third Street, Lafayette, IN.

Chairman Bruce V. Osborn called the meeting to order with the following being present. Eugene R. Moore and Sue W. Scholer Boardmembers, Michael J. Spencer Surveyor, Mark Houck Drainage Consultant, J. Fred Hoffman Drainage Attorney, and Maralyn D. Turner Executive Secretary.

Others present are on file.

MCCUTHEON HEIGHTS PART II SECTION II

MCCUTHEON
HEIGHTS
PART II

John Fisher engineer, representing developer Prairie Oaks asked for Preliminary approval of drainage plan for McCutheon Heights Part II Section II. Mr. Fisher explained that the first part of the subdivision was started in the late 70's. In 1987 the first part of the second section was developed, they are proposing to complete the entire subdivision. Mr. Fisher explained to the board that in the 1970's the area had uncontrolled runoff, they have now revised, taking Part I routing through the detention basin except the uncontrol runoff on slopes. In sizing the detention basin they allowed for the 6% safety factor and will increase the discharge size.

Michael explained that this is the second section of the Phase that was approved in a 1987 drainage meeting. Michael stated he had gotten with Mr. Fisher asking how does the water get to the detention basin and the outlet to Wea Creek? Michael stated that when Mr. Fisher shows these two items in his construction plans the board would be ready to give final approval. Mr. Houck agreed.

Sue W. Scholer moved to give Preliminary approval to McCutheon Heights Part II Section II subject to showing the water being routed from the ravine through the detention facilities from 150' easement on to the Wea Creek, seconded by Eugene R. Moore, unanimous approval was given.

KINGS RIDGE SUBDIVISION PART III

KINGSRIDGE
PART III

Robert Grove representing the developer asked for final approval to the construction plans with revisions to the storm water system. At the last meeting they asked to for go the orifice plate which they have now added to the construction plans as well as a concrete spillway to the detention basin.

Michael stated at last months drainage board meeting conditional approval had been given subject to the two items mentioned to be in the construction plan drawings. These have been incorporated into the plans.

Sue W. Scholer moved to give final approval to the Construction Plans of Kings Ridge Subdivision Part III, seconded by Eugene R. Moore, unanimous approval given.

DRAINAGE ORDINANCE

DRAINAGE
ORDINANCE

Michael Spencer presented the Drainage Ordinance changes subject to George Schulte's impact being incorporated into them. The changes are in the April 6, 1988 minutes.

Eugene R. Moore moved to give approval to the amended changes of the ordinance with one change on Item 11 adding the word County, seconded by Sue W. Scholer, unanimous approval.

PARKER DITCH

PARKER I
DITCH

Mr. Osborn explained that the grant would go before the Commissioners, the actual work under the supervision of the County Surveyor and the Drainage Board. It is going to be involved, but the Boards will do their best to keep everybody informed.

Richard Donahue attorney representing IEDC asked to withdraw the supplemental petition filed to vacate and change the original plans, filing was February 17, 1988. They are talking about the petition he filed for the IEDC June 12, 1987, this is what they are asking to be approved today.

Bruce V. Osborn asked Jim Shook if he had the options secured? Mr. Shook stated they do not have all the final options in hand. They have agreements for the options with the final terms agreed upon with the property owners involved. Some are in the process of being signed by the property owners in fulfillments of previous agreements. One option is still being prepared by Mr. Donahue, one in the hands of the Drainage Board attorney, but the agreements for the options on terms agreeable to both parties are all in hand.

Larry O'Connell County Attorney pointed out that the Commissioners through the grant will be the developers for the project subject to the approval of the Drainage Board. Larry stated on behalf of the Commissioners if the plans meet with approval, it could be passed conditioned upon showing the Drainage Board and Drainage Attorney that there is control over the route. When Jim Shook completes the things he has to do Rich Stenner and Mr. O'Connell will complete what they have to do to bring it back to the Commissioners as they will be entering it into the agreement with the State for the transfer of what has been put together by IEDC. Once the Commissioners agree to that, then it will be presented to the Drainage Board. After Mr. Hoffman looks at the agreement and he is comfortable with the presentation, and the control is there then the Drainage Board could say that condition has been met showing that there is control over the route. Mr. O'Connell sees it as a two step process. One are you satisfied with the plan that has been presented, if so then give conditional approval based upon the showing there is control over the route.

Mr. Osborn asked conditional approval of the plan? Answer- Correct. Mr. Osborn asked why not leave the other items out? Mr. O'Connell answered as long as the Commissioners knows what the condition is. That is the route.

Mr. Hoffman stated that the board could go ahead and approve the plans subject to them having the route, which is on the plans subject to Mr. Shook presenting the options of the easements. Control will be through the options for planning purposes.

Mr. Osborn asked for questions.

Ted Smith attorney representing Mr. and Mrs. Ed Korschot asked the following questions:

1. Will there be a set of detailed plans and specifications for this proposed order?
 - a. If not, about when will a set of plans be available for inspection?
 - b. Will the property owners affected by the ditch be consulted prior to the preparation of the plans and specifications?
2. Will the construction of this ditch be advertised for bids?
3. What is the projected time table for the commencement and completion of construction?

Mr. Shook stated to Mr. Smith that he had made a proposal or demands of the county, which concerned itself with money and with the reduction in the width of the easement. Mr. Smith agreed. Mr. Shook pointed out that at the last drainage board meeting the board conquered with the request of the Korschot's presented, this information was passed on to Mr. Helmerick. Mr. Shook stated that yesterday they had received the final description showing the reduction in the easement. Mr. Donahue is preparing the option agreement, the easement agreement reflecting Mr. Smith's request for the Korschot's. Mr. Shook stated that the plans here today show the change requested by Mr. Smith for the Korschot's.

Mr. Spencer stated the plans through the Korschot's property have not been changed. Michael stated the plans shown here today are the preliminary construction plans, they are not the final set of construction plans.

Mr. Shook stated that the changes requested by Mr. Smith in the option agreement need to be reflected in the plans so that it will meet Mr. Smith's demands.

Mr. Smith stated question #1 has been answered to the fact that there will be a set of final plans. 1(b) He asked this because the situation to one property owner to the other would be different. He feels that each landowner should be consulted, and be done before the final plans are approved. Mr. Smith presented Mr. Osborn with the questions.

Mr. Osborn stated that #2 question in regards to the bids will be handled just like any other construction bids.

Mr. Osborn stated in regards to timetable he doubts if the project will be completed this year. Mr. Hoffman stated construction may be started as early as October, as far as completion it will be sometime in 1989 depending upon the type of weather during the winter of 1988-1989.

Michael asked Joseph Snyder about the time table. The time table projected by Mid-States Engineering is 180 days, this included bad weather conditions. Time table was discussed more in depth.

Michael asked Mr. Hoffman if hearing notices would be sent out when the final set of plans and specifications so that the people will know that the plans are here. Mr. Hoffman answered, definitely notices should be sent.

Michael Spencer stated he would like to know what the next step is for the Parker ditch. He stated we need to get moving on this project. Mr. Hoffman stated we need the final plans and the options. The final plans will show the reduction. Michael stated that some changes have been made on the ending. Michael stated a description should be presented on the easement reductions, plans are for construction not for easement recording. Mr. Hoffman stated a legal description does need to be presented and filed with the final plans so that it can be recorded.

Mr. Hoffman asked that Mid-States be told to prepare a legal description of the whole drain when finalized.

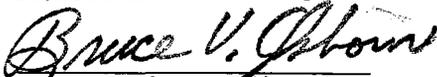
Sue W. Scholer moved to give approval for the route of Parker Ditch and conditional approval of the plans as submitted based upon the fact that the route is secured, seconded by Eugene R. Moore, unanimous approval.

THOMAS COLEMAN DITCH

Thomas
COLEMAN
DITCH

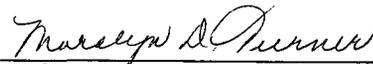
Michael Spencer stated he had received a petition on Monday, May 2, 1988 to vacate a portion of the Thomas Coleman ditch. The ditch runs through the East Side Drive-In property, ditch never had a maintenance fund on it. The ditch outlets north of Union Street back in the Public Service ground on north through to Vinton Woods. The request is for the upper end only on the Estate of Frank A. Metzger property. Thirty day notices have been sent out by Mark DeYoung attorney. A hearing will be held at the June 1, 1988 Drainage Board meeting.

There being no further business the meeting recessed at 9:50 A.M. till Wednesday, May 18, 1988 for the Kirkpatrick One ditch hearing.


Bruce V. Osborn, Chairman


Sue W. Scholer, Boardmember


Eugene R. Moore, Boardmember

ATTEST: 
Maralyn D. Turner, Executive Secretary

TIPPECANOE COUNTY DRAINAGE BOARD
WEDNESDAY, JULY 6, 1988

The Tippecanoe County Drainage Board met Wednesday, July 6, 1988 in the Community Meeting room of the Tippecanoe County Office Building, 20 North Third Street, Lafayette, Indiana at 9:A.M.

Chairman Bruce V. Osborn called the meeting to order with the following being present: Eugene R. Moore and Sue W. Scholer Boardmembers, Dave Luhman Acting Drainage Attorney, Michael J. Spencer Surveyor, Mark Houck Drainage Consultant, and Maralyn D. Turner Executive Secretary. Others present are on file.

McCUTCHEON HEIGHTS

John Fisher engineer, representing Prairie Builders, stated they do not have the easements finalized. Mr. Fisher met with Gregg Sutter, he has more details to work out, after these details have been completed they will submit to Mr. Spencer for study, hopefully within the next two days.

TIPPECANOE SCHOOL CORPORATION - New Building

John Fisher engineer and Mark DeYoung Attorney representing the Tippecanoe School Corporation asked the board to review the plans submitted. Acquiring easements for offsites has not been finalized.

Bruce V. Osborn asked Mr. Fisher where he was going with the water? Answer, straight north across Lilly Road tributary to Durkees Run down to the railroad.

Michael has seen the plans they do have to get offsite easements in order to put their pipe into.

Mark DeYoung stated they are in the process of negotiating with the neighbors to the north, they are looking at two options. Engineering and elevation would remain the same regardless if the pipes would be moved. Mr. DeYoung asked to be on agenda again soon.

WESTON WOODS - WESTON PLACE

Michael Spencer stated they had been scheduled for the agenda today, but he had received a letter from Paul Coutts asking continuance be granted for a later time. No presentation.

PARKER DITCH

Michael Spencer stated at the Commissioners meeting the Commissioners conditionally approved the easements for the Parker ditch, two easements need to have legal descriptions corrected.

Roger Detzner asked if the board could review and approve the final plans subject to the easement corrections?

Dave Luhman drainage attorney stated the board could give approval subject to receiving the necessary easement that are required to carry out the plan.

Michael stated he has three sets of the final plans sealed by Mid-States Surveyor and copies of specifications sealed, all are in order with changes that were requested. They are the final set of plans for the construction of Parker Ditch.

Bruce asked what had been decided about on-site inspector?

Michael stated this would have to be discussed in the Commissioners meeting. Notices will have to be put out to bidders for inspection services, same procedure as for the construction.

Michael Spencer stated that Charles Chamberlin's easement document, he required a 20' wide concrete ford. Plans showed 15'. Jay Gibson brought plans with the 20' shown in plan. Joseph Plasphol had two items. He has an access road coming down the hill and a concrete ford into a bottom field, need to be in the plans that this has to be maintained at all times.

Roger Detzner representing Tecumseh Area Partnership asked the Drainage Board to approve the final design of plans subject to the appropriate easements being finalized.

Sue W. Scholer moved to accept the final design of the Parker Ditch reconstruction subject to the filing of the final easements, seconded by Eugene R. Moore, unanimous approval given.

Roger Detzner suggested that accepting easements be put on hold till corrections are made to the easements.

Sue W. Scholer stated that Mr. Luhman had asked the board to hold off giving approval to the legal description subject to Larry O'Connell's final opinion.

Roger Detzner asked the board if this was the proper time to discuss the vacating of the ditch. Bruce V. Osborn stated it would be after the fact. Michael Spencer stated the only pipe that was petitioned to be vacated was the one on the SIA site, none of the other area of Parker ditch was to be vacated. Reconstruction on the petition is covered and the extension.

Eugene R. Moore asked if it was cleared up in regards to the Ayres property draining into the Parker ditch? Michael stated-NO. There are tiles out there, but he thinks those pipes will show up and be taken care of with the 200 South reconstruction, with a long ditch along Haggerty Lane road drainage. Michael stated this will be discussed later.

Mr. Detzner stated that action would not need to be taken until a new route is established. Mr. Luhman stated the Bull Estates easements need to be studied before acting on the vacating. Michael Spencer stated he doesn't believe this affected the Bull's.

Mr. Detzner asked Joe Snyder if there was any reason for SIA to vacate that particular area of the SIA site at this time? Mr. Snyder stated that he doesn't know of any reason for them to want to vacate at this time. He suggested that the board wait to take action on the vacation.

Mr. Detzner stated that the final request that he is asking is that the board approve the construction documents for use in bid letting.

Michael Spencer stated all plans are in order and ready to build the project.

Sue W. Scholer moved to accept the plans of construction documents for the construction of the Parker drain, seconded by Eugene R. Moore, unanimous approval given.

FARMINGTON LAKE ESTATES

Michael Spencer stated at the last drainage board meeting the board continued the hearing for Farmington Lake Estates as Mr. Hoffman was to study the covenant. Mr. Hoffman has made study and approves the covenant as written. Michael recommended the board give final approval.

Sue W. Scholer moved to give final approval of the Farmington Lake Estates drainage plans and protective covenant, seconded by Eugene R. Moore, unanimous approval given.

Robert Grove came before the board asking for Final approval, Michael Spencer informed him that the board had taken action and approval had been granted. Dismissed.

200 South Phase I

Stewart Kline engineer presented proposal for Phase I. At Michael Spencer's request they have ponded water, provided the detention storage in the ditches. If they were to compare between the 100 year proposed the ten year existing storm they would need 3.2 acres feet in storage. In providing storage in the ditches they are providing 2.3 acre feet. If they could pond to a higher elevation the 649.5 it would not jump the ditches until it gets to 649.5, that would be 3.1 acre feet. He asked for drainage board approval to go along with this slight difference.

Michael Spencer stated the only thing he wanted to bring to the board's attention is they have planned to install a catch basin on the old Branch 13 of the Elliott ditch by the intersection of Haggerty Lane and State Road 38. Same tile that Brampton Apartments tributes to. Mr. Moore asked if this was on the 14" pipe? Answer- yes. Mr. Moore stated this would be more water going in there and it won't take it now. Michael stated this would be the only outlet they would have. Mr. Kline stated at that point they would be ponding at 5' depth which is directly in front of the Apartment complex. If they would not have an outlet it would constitute a hazard. Michael stated that one thing will help is that in the Creasey Lane extension they are putting in a drainage system to bring up to this area which will provide an outlet. Michael stated with the improvement of 38 this may be improved. Mr. Kline stated it will be a temporary thing with the improvement of 38 East and extension of Creasey Lane. Eugene Moore asked if there was an inlet out there? Michael answered that the Apartment has an inlet in the tile there.

Eugene R. Moore moved to give final approval to 200 South Phase I drainage plans as presented, seconded by Sue W. Scholer, unanimous approval given.

200 SOUTH PHASE II

Lamar Ziegler presented construction plans for reconstruction of 200 South from the proposed intersection of 475 East to the Dayton Road. Presentation is on file which Mr. Ziegler went through step by step. Michael Spencer stated the board has gone over this before and it is a matter of making it a part of record. Mark Houck had no problems with the proposal presented.

Sue W. Scholer moved to give approval to final plans for 200 South Phase II, seconded by Eugene R. Moore, unanimous approval.

Discussion of advertising for bidders and inspection services for the Parker ditch project was discussed. Michael will meet with Larry O'Connell and Roger Detzner. Tentative dates discussed was notice be sent July 14, 1988 and not to be opened till August 15, 1988 or after that date.

There being no further business to come before the board the meeting adjourned at 10:30 A.M.

Bruce V. Osborn
Bruce V. Osborn, Chairman
Sue W. Scholer
Sue W. Scholer, Boardmember
Eugene R. Moore
Eugene R. Moore, Boardmember

ATTEST: *Maralyn D. Turner*
Maralyn D. Turner
Executive Secretary

**TIPPECANOE COUNTY DRAINAGE BOARD
REGULAR MEETING
AUGUST 7, 1991**

The meeting was called to order by Noia J. Gentry, Chairman, at 9:00 A.M. in the meeting room of the Tippecanoe County Office Building, 20 North Third Street, Lafayette, Indiana.

Those present were: Noia J. Gentry, Chairman, Keith E. McMillin, Hubert Yount, Tippecanoe County Commissioners, Michael J. Spencer, County Surveyor, Ilene Dailey, Chris Burke Consulting Engineers, David Lührman, Acting Drainage Board Attorney and Dorothy M. Emerson, Executive Secretary Drainage Board.

The first item on the agenda was to approve to the minutes of the meeting for the last Drainage Board meeting on July 10, 1991. Keith McMillin moved to approve the minutes, seconded by Hubert Yount. Unanimously approved.

SIA Motorpool Expansion

Tom Heibing, RBAW retained by SIA has been working on the Subaru Isuzu site since its conception in 1987. The proposal that SIA presently has is an expansion of container yard. The original design of the discharge for Parker Ditch has improved this approximately 180 cfs, the proposed modification would include approximately 50 acres; paving, rail yards, expansion of the Isuzu accessory building.

What the design presently entails is modification of the interior drainage patterns, construction of a new retention pond #6 to capture and retain the drainage from the new paved areas. The design of new pond #6 is designed such that the new discharge peak annual year storm discharge to Parker Ditch is reduced from 188.7 cfs to 180 cfs. So the net impact of the expansion of the motorpool facility at Subaru is basically no impact on the discharge of Parker Ditch over what has already been approved by the Drainage Board in 1987. It is a non impact off the Subaru site.

Mr. Heibing asked if there were any question from the board.

Mike Spencer, County Surveyor stated that the expansion project would have new tile laid south of County Road 200 South to intercept the field tile that were cut with the temporary forcemain installation. That was a requirement of SIA and they have agreed to do it. There is a plan and profile sheet that has been drawn and submitted and it appears to be more than adequate to pick up those tiles and will be one of the first things done in the expansion process. So it should relieve some of the problems on the Northside of 200 South.

Hubert Yount, Commissioner asked if the new pond would be constructed prior to the completion of the Parker Ditch.

Mike replied that he did not know how soon they intend to start construction.

Tom Heibing stated that to lay the drainage pipe you need to have some place for the pipe to go. Basically, it would start from pond #6 and move backwards this is standard construction practice so your excavation has a place to drain away from the work.

Mike Spencer stated that it had been reviewed and they would recommend approval of this drainage plan for the expansion.

Hubert Yount, Commissioner moved to approved the SIA Motorpool Expansion project as requested.

Keith McMillin, seconded the motion. Motion carried.

MAYFLOWER MILL.

Dale Koons of John E. Fisher Land Surveyors & Engineers Co. began by stating that Mayflower Mill is about a 70 lot subdivision located at the south part of town, at the corner of SR 43 and 500 South, between Mayflower Mill Elementary and McCutcheon High School. Our proposed development is going to provide onsite detention on the east side of State Road 43 and will be releasing water at the rate of less than the ten year predeveloped runoff. We have obtained easements from the area called Sheffield to the west of State Road 43 to allow us to lower the pipe at State Road 43, put in a new culvert there and build a new ditch to an existing ravine in the middle of Sheffield that will then carry the water on down to the Wea Creek. Mr. Koons asked the board for approval on this project.

Hubert Yount, Commissioner asked if there was originally a retention pond on the east side? Does this change the layout of the subdivision?

Mr. Koons said no, they have incorporated the area in the back of some lots that backed up to State Road 43 as part of the detention area. Very little detention was required because the subdivision actually is decreasing runoff from what it was. Currently, in a farm state where you have row crops being put on a property, the runoff is actually being decreased so we are still complying with the ordinance in that we are taking the 100 year runoff and decreasing it down to the 10 year predeveloped flow.

Noia Gentry, Commissioner asked how could the runoff be decreased from developed to undeveloped.

Discussion followed.

Hubert asked what the anticipated retention time would be?

Mr. Koons stated about 3 or 4 hours.

Hubert stated to Mike that his concern was that he doesn't want another situation where there are ditches in the back that are holding water and mosquito swamps and dangers to

children. We have families living there with small children. That would be a liability to the County.

Mike responded, that was a question he had with the Homeowners Association that we make sure Fred Hoffman, Drainage Board Attorney approves the language on the maintenance agreement of that and that is taken care of.

Hubert stated that there were two or three of those in the city and have been nothing but problems and he didn't anticipate taking on that kind of problem with the County.

Discussion followed.

Mike stated that there were a couple of things he wanted to see done before approval was given or give conditional approval. 1) The off-site drain easements, we should have at least a copy of them recorded to show that they do actually have the off-site easement. 2) A copy of the State Highway Permit to do their work since that is a major outlet for the subdivision. 3) The language in the restrictive covenants have been approved by our attorneys as far as the maintenance of the basin. 4) The Engineering Department is not going to approve the variance on the gutter spread. So that needs to be addressed somehow before the Highway Department would approve the variance on the gutter spread. Mike stated that Mr. Koons needed to get with our County Highway Engineering Department and discuss that gutter spread request.

Those 4 items needed to be addressed before final approval can be given. None of them are major, but they need to be addressed before the Drainage Board gives final approval. And if there are conditions that is fine. They do meet the intent of the ordinance as far as their predevelopment runoff versus after development.

Discussion followed.

Keith McMillin moved to approve the Mayflower Mill Project Plan with the four condition as stated by the Surveyor.

Seconded by Hubert Yount. Motion carried.

FLEISCHHAUER OUTLET MALL

Paul Coats presented the Fleischhauer Outlet Mall Plans to Drainage Board.

Mike said he had a couple of questions. Is that number of parking spaces the required number for the building size or is that more than you need for the building size?

Mr. Coats stated that they had more parking spaces than what's required by the ordinance, 128 are required and we have 136.

Mike said one of the things that concerns the Drainage Board is to approve a system that technically meets the drainage ordinance but effectively floods 95% of every parking place that you have available during one of those storm events.

Mr. Coats stated that is what the ordinance allows.

Mike stated that they have had these before but it has never been the vast majority of the parking places that would be effected. It has been a third or them or maybe a fourth but never one with such a large number of the parking places that are available to be inundated during those storm events.

Discussion followed.

Nola asked Paul what the construction on the outlets were like, with a parking lot and traffic there could be problems with congesting the outlets with paper and such.

Paul said: 1) The inlets will create some storage at the bottom, so if you have any kind of debris it will settle down in the bottom. Bill Fleischhauer will have to do the maintenance on them to keep them cleaned out. 2) Calculations were done for a cleansing velocity through the orifice itself. We're running 10 to 12 feet per second through that. It is a minor problem, on the other hand by making these inlets and putting some space down into storage you will not have something fall to the bottom of the inlet. It is going to go down and as long as you periodically clean it, I believe you have a system that will work.

Discussion followed.

Mike commented that he would like to see the State Highway Permit before construction begins.

Hubert Yount moved to approve the drainage plan subject to getting the permit from the Highway Department prior to starting construction.

Keith McMillin, seconded. Motion carried.

OTHER BUSINESS

Mike stated that there were a couple of items to be put into the Drainage Board minutes.

- 1) Last month at the regular Drainage Board meeting the Indiana Gas LUK Industrial Park on the agenda, it was approved with conditions and it needs to be entered into the minutes that the supporting documents have been received. Everything is in order and final approval is recommended.
- 2) A petition has been received from Smith Enterprises to vacate a portion of the Ortman Drain, south in Iwyckennam Addition. The development is within the city limits but there is a County regulated drain that runs through there. We have done vacations of portions of that drain before.

Next month notices will be sent and there will be an official hearing on the vacation.

Discussion followed.

Being no further business Keith McMillin moved to adjourn the meeting. Seconded by Hubert Yount. Meeting adjourned.

The next scheduled Drainage Board meeting is Wednesday, September 4, 1991.

Nola J. Gentry

Nola J. Gentry, Chairman

Keith E. McMillin

Keith E. McMillin, Member

Hubert D. Yount

Hubert D. Yount, Member

ATTEST: *Dorothy M. Emerson*

Dorothy M. Emerson, Executive Secretary

**TIPPECANOE COUNTY DRAINAGE BOARD
REGULAR MEETING
November 6, 1991**

The meeting was called to order by Nola J. Gentry, Chairman, at 9:00 A.M. in the meeting room of the Tippecanoe County Office Building, 20 North Third Street, Lafayette, Indiana.

Those present were: Nola J. Gentry, Chairman, Keith E. McMillin, Hubert Yount, Tippecanoe County Commissioners, Michael J. Spencer, County Surveyor, Jon Stolz, Chris Burke Consulting Engineers, Fred Hoffman, Drainage Board Attorney and Dorothy M. Emerson, Executive Secretary Drainage Board.

The first item on the agenda was to approve the minutes of the meeting for the last Drainage Board meeting on October 16, 1991. Hubert Yount moved to approve the minutes, seconded by Keith McMillin. Unanimously approved.

DEERFIELD COMMONS

Dennis Holmstead presented the drainage plans for Deerfield Commons.

Discussion followed.

Mr. Holmstead asked the Board to grant approval with the conditions stated in Ilene Dailey's Memo.

Hubert moved to approve the plans submitted subject to providing written proof of access to the Brampton property and all other conditions from Ilene Dailey's Memo dated November 4, 1991.

Ilene's conditions are as follows:

- a) The storm sewer calculations apparently were not done using Manning's equation. No pipe velocities were provided.
- b) No inlet calculations were provided. Depth and spread of ponding in the parking areas was not provided.
- c) Velocity and stability calculations for the proposed drainage swales were not provided.
- d) No calculations for the effects of the proposed development draining to the existing Brampton Apartment detention facility were provided. No calculations were provided for this facility.
- e) The total drainage area and areas draining directly off-site need clarification. The total site area is given as 7.017 acres, the areas from Exhibit "F" appear to sum to 6.42 acres, while the areas shown as "Before Development" and "After Development" apparently total to 5.74 acres.

Keith seconded. Motion carried.

JANE KENNY PROPERTY

Bob Grove representing the Jane Kenny Property requested drainage approval.

Discussion followed.

Fred Hoffman, Drainage Board Attorney asked if this was wetland.

Discussion followed.

Mr. Grove was informed by the Board that he needed to find out if this property was considered wetlands.

Discussion continued.

Hubert Yount moved to grant preliminary approval on the Kenny Property with the conditions of checking the wetland status and State Highway approval for an outlet.

Seconded by Keith McMillin. Motion carried.

BROOKFIELD PHASE II, SECTION II

Dale Koons and John Fisher asked the Board for drainage approval on Brookfield Phase II, Section II.

Discussion followed.

Fred Hoffman asked if the pond had a fence around it.

Discussion continued.

Fred Hoffman read the Drainage Ordinance: "Basins designed with permanent pools or containing permanent lakes shall be surrounded by a nonclimbable chain link fence at least six (6) feet in height plus a barb wire suitably posted to prevent unauthorized entry into the pool area.

Discussion followed.

Hubert stated that the proper procedure would be to come back and ask for a variance on the fence at another meeting.

Fred informed Mr. Koons and Mr. Fisher that they would need a written petition for a variance for the fence and for using lots for detention.

Discussion followed.

Nola stated that before approval could be given the following conditions need to be met: 1) Variance for the fence and 2) using lots for detention. When this is done a special meeting could be called.

ASSIGNMENT OF WALMART EASEMENTS TO THE DRAINAGE BOARD

Keith McMillin moved to accept the drainage easements for Richard A. Moore and Marjorie M. Halstead as submitted. Seconded by Hubert Yount. Motion carried.

Keith McMillin moved to accept the drainage easements from Walmart Stores, Inc. Hubert Yount seconded. Motion carried.

Keith McMillin moved to accept the drainage easement from GTE. Hubert Yount seconded. Motion carried.

Keith McMillin moved to accept the drainage easement from INB National Bank for the Gipe Property. Seconded by Hubert Yount. Motion carried.

PARKER DITCH

Our consultant MSE, their inspector Bill Hall, SIA and the Commissioners have approved the substantial completion of Parker Ditch. Letters have been sent to Indianapolis.

VACATION OF BRANCH 11 OF THE CUPPY-MCCLURE DITCH

Nola stated that a motion was needed on advertisement for the Vacation of Branch 11 of the Cuppy-McClure Ditch.

Discussion followed.

Hubert Yount moved to authorize advertising of the Vacation of Branch 11 of the Cuppy-McClure Ditch ten (10) days before the next Drainage Board Meeting on December 3, 1991.

Keith McMillin, seconded. Motion carried.

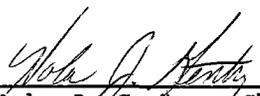
DRAINAGE BOARD MEETING CHANGED

Keith McMillin moved to change the next regular scheduled Drainage Board Meeting from Wednesday, December 4, 1991 to Tuesday, December 3, 1991.

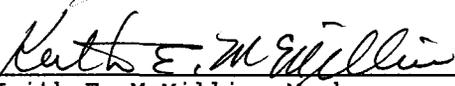
Hubert Yount, seconded. Motion carried.

Hubert moved to adjourn the Drainage Board meeting. Seconded by Keith McMillin. Motion carried.

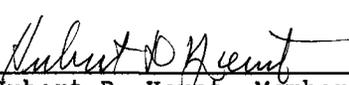
The next regular scheduled Drainage Board meeting is scheduled for Tuesday, December 3, 1991 at 9:00 am.



Nola J. Gentry, Chairman



Keith E. McMillin, Member



Hubert D. Yount, Member

ATTEST: 

Dorothy M. Emerson, Executive Secretary

**TIPPECANOE COUNTY DRAINAGE BOARD
SPECIAL MEETING
MAY 18, 1992**

The Tippecanoe County Drainage Board met in regular session held on Monday, May 18, 1992 in the Community Meeting Room of the Tippecanoe County Office Building, 20 North Third Street, Lafayette, Indiana with Keith E. McMillin calling the meeting to order.

Those present were: Keith E. McMillin, Chairman, Nola J. Gentry and Hubert D. Yount, Tippecanoe County Commissioners, Michael J. Spencer, County Surveyor, J. Frederick Hoffman, Drainage Board Attorney, and Dorothy M. Emerson, Executive Secretary Drainage Board.

MARY THOMAS DRAIN/JOINT COUNTY DRAIN WITH CARROLL COUNTY

Fred Hoffman, Drainage Board Attorney had spoke with Mr. Swayne from State Board of Accounts regarding loaning Carroll County money from the General Drain Fund for the Mary Thomas Drain Project.

Mr. Hoffman stated that there are no provision for the Tippecanoe County Drainage Board or Tippecanoe County to loan money to the Carroll County Drainage Board or to Carroll County. Mr. John Swayne, State Board of Accounts, stated that if such a transaction occurred he certainly would object to it in his annual audit report. The most that can be done is to give Tippecanoe County's share up front. If Carroll County needs to borrow money for this project they will need to go through the appropriate channels.

Nola Gentry, Commissioner, asked what Tippecanoe County's percentage was for the Mary Thomas Drain?

Mike Spencer, Surveyor stated that Tippecanoe County's share was between 10 and 15 percent.

Discussion followed.

Hubert Yount, Commissioner moved to advance Tippecanoe County's portion for the Mary Thomas Drain. Commissioner Gentry, seconded. Motion carried.

PARKER DITCH

Mike Spencer, Surveyor stated that he had received a telephone call from Stanley Bull. Mr. Bull had tried to work the ground over the Parker Ditch along the access easement. In doing so with his tool, he ran into severely compacted dirt and in the process of stopping his tractor broke the rear drive axle. Mr. Bull has submitted a claim for \$2,141.07 seeking reimbursement. Mike stated that he has requested W.P.M. get the proper equipment in there to sufficiently to brake up the compacted soil.

Discussion followed.

Mike Spencer, Surveyor stated that on May 8, 1992 he and Bill Hall, MSE Corporation, had walked the project and come up with seven items that needed to be taken care of:

- 1) There are still numerous rocks that need to be picked up on Chamberlin property.
- 2) There needs to be more straw bales installed on the Bull Waterway. One in the middle of waterway does not work, there needs to be additional bales put beside the center one.
- 3) Still rocks and debris to be picked up on Bull and Carr.
- 4) Grading still needs to be done on east side of I-65 and on the west side of I-65.
- 5) Throwing oat seeds on the ground does not constitute seeding as per the spec.
- 6) On Carr ground west side of I-65, there is a large area that is low, needs fill dirt and subsoiled. Your earlier attempts at subsoiling were never done in this area.
- 7) Supposed subsoiling on Bull in areas we checked, a maximum of 5 1/2 inches was the total depth. This area needs to be subsoiled to a greater depth. Per your letter (top soil section 02830 Part 3.03, 5 1/2 inches are not sufficient to allow root penetration).

Discussion followed.

Surveyor Spencer stated that a letter was received from Joe Plasphol and Charley Chamberlin stating that they were satisfied with the condition of the ground on the lower end of the ditch.

Discussion followed.

Surveyor Spencer requested that the Board give W.P.M. a time limit of 7 to 10 days to complete the work. If they do not comply then let the County hire someone to complete the work and pay them out of W.P.M.'s retainage.

Discussion followed.

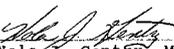
Commissioner Yount moved to put W.P.M. on notice that they have until June 1, 1992 to complete the items or the County will hire someone to do it and pay it out of W.P.M.'s retainage. Nola Gentry, seconded. Motion carried.

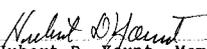
Commissioner Gentry requested that the letter be sent registered mail with a return receipt.

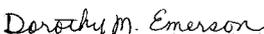
Commissioner Gentry moved to adjourn the Drainage Board Meeting.

The next scheduled Drainage Board Meeting is June 3, 1992 at 8:30 A.M.


Keith E. McMillin, Chairman


Nola J. Gentry, Member


Hubert D. Yount, Member

ATTEST: 
Dorothy M. Emerson, Executive Secretary

TIPPECANOE COUNTY DRAINAGE BOARD
REGULAR MEETING
JUNE 2, 1993

The Tippecanoe County Drainage Board met Wednesday June 2, 1993 in the Community Meeting Room of the Tippecanoe County Office Building, 20 North Third Street, Lafayette, Indiana with William D. Haan calling the meeting to order.

Those present were: Tippecanoe County Commissioners William D. Haan, Nola J. Gentry, Hubert Yount, Tippecanoe County Surveyor Michael J. Spencer, Drainage Board Attorney J. Frederick Hoffman, Christopher Burke Engineering Consultant Ilene Dailey, and Drainage Board Secretary Shelli Hoffine.

The first item on the agenda was to approve the minutes from the last Drainage Board Meeting held on May 5, 1993 Commissioner Gentry moved to approve the minutes. Seconded by Commissioner Yount. Unanimously approved.

BROOKFIELD FARMS SUBDIVISION

John McBride representing the Developer, Cedar Run Limited, asked for variance on Section 14 (h) 8 requiring a six (6) foot chain link fence surrounding permanent lakes which had been previously denied, be approved after modifications have be made to make the lake less responsibility to the County Drainage Board and safer to the public.

Dale Koons and Roy Prock from Civil Engineering Services joined the meeting and Mr. Koons explained that the chain link fence would be on three sides of the lake leaving the back of the lots open to the lake.

Commissioner Yount asked who is going to own the outlots?

Mr. Koons replied the Homeowners Association.

Commissioner Yount stated that he could foresee the County paying the taxes because the Association could not maintain the lake and that would cause a liability on the County.

Mr. McBride stated that having the fence on three sides of the lake the general public would have to either climb the fence or trespass.

Mr. Hoffman suggested that if the people in the subdivision are the only ones that have access to the lake then why not give each of the homeowners a undivided interest in the lake. That would relieve any responsibility to the County on liability and taxes do to the fact that the home owner would be taxed along with the rest of their property.

Commissioner Gentry moved to approve a variance on Section 14 (h) 8 requiring a six (6) foot chain link fence surrounding the lake and grant the south side be open to give land owners in Brookfield Farms Subdivision access to the lake. Also, approval of the developer granting an undivided interest to each lot owner along the lake in Brookfield Farms Subdivision. Seconded by Commissioner Yount. Unanimously approved.

WESTON WOODS II

Mr. Spencer indicated that review of Weston Woods II Subdivision is not complete and will be heard at a later date in a special Drainage Board meeting.

ABBINGTON FARMS SUBDIVISION

George Schulte asked for preliminary approval of Abbington Farms Subdivision. The subdivision will be approximately forty (40) acres with forty (40) lots and is located South of County Road 350 and East of South 18th Street in the Kirkpatrick watershed area. Drainage for the subdivision drains in two directions approximately fourteen (14) acres drains to the west and approximately twenty seven (27) acres drain to the north into the Kirkpatrick watershed area. There is a sixty six (66) acres off site watershed associated with the subdivision, a channel for the off site watershed will be constructed to carry the runoff through the subdivision and continue on to the Kirkpatrick watershed area. The field tile have been located and as part of the storm drainage system they will be rebuilt or replaced. Also proposed is two ponds one on the East end and the other on the West end of the development with a dry bottom basin. This site will increase the rate of runoff, but it will decrease the volume of runoff by twenty to thirty percent because it is going from agricultural land to low density subdivision which the majority of the lot is grass.

Ed Beeler land owner of 3816 S 150 E expressed concern of creating more runoff on his land.

Mr. Schulte stated that it will not create more runoff, it decreases because of the construction of dry bottom basins and the subdivision will be low density.

Commissioner Yount moved to approve preliminary plans for Abbington Farms Subdivision. Seconded by Commissioner Gentry. Unanimously approved.

Other Business

Mr. Spencer passed around a letter from Mid States regarding the Parker ditch into the Wildcat Creek. The designers of Parker ditch were out to look at it, they reported that the damage to the farmland on Mr. Chamberland's land is more of "Mother Nature" and the creek than Parker ditch. The designers offered some solutions on fixing the ditch, but that would mean a new permit from the Department of Natural Resources (DNR). If the ditch was put back exactly the way it was done at first the Board would not need a permit. Mr. Spencer did not recommend doing that sense it did not hold the first time the construction was done.

Commissioner Gentry asked if the creek was eroding into the Parker Ditch?

Mr. Spencer said not yet, most of the damage is down stream.

Mr. Spencer stated that he had a representative from DNR out to Otterbein Ditch and they determined that the Otterbein ditch is the longest arm of Pine Creek and sense the length is over ten (10) miles from the outlet of the Wabash River up to the end of Otterbein ditch, a DNR permit and Army Corp of Engineering permit from Louisville will be required before any work can be started.

Being no further business Commissioner Yount moved to adjourn. Seconded by Commissioner Gentry. Unanimously approved.

TIPPECANOE COUNTY DRAINAGE BOARD
REGULAR MEETING
OCTOBER 5, 1994

The Tippecanoe County Drainage Board met Wednesday, October 5, 1994, in the Community Meeting Room of the Tippecanoe County Office Building, 20 North Third Street, Lafayette, Indiana with Nola J. Gentry calling the meeting to order.

Those present: Tippecanoe County Commissioners Nola J. Gentry, William D. Haan, Hubert D. Yount; Tippecanoe County Surveyor Michael J. Spencer; Drainage Board Attorney J. Frederick Hoffman; Drainage Board Engineering Consultant Jon Stolz and Drainage Board Secretary Shelli Hoffine.

The first item on the agenda was to approve the minutes from the last Drainage Board Meeting held September 7, 1994, Commissioner Yount moved to approve the minutes, seconded by Commissioner Haan. Motion carried.

NATIONAL GUARD ARMORY

Andy Slavens, Vester & Associates, represents Scholer Corporation.

Mr. Slavens presented the Board with final drainage plans of the proposed National Guard Armory, which includes 16.03 acres along County Road 200 South. Currently the entire site drains to a swale along 200 South, then goes east to Parker Ditch, which runs to the South Fork of the Wildcat Creek. After development, detention ponds will slow down the runoff rate to the 200 South right-of-way. To keep the pond from being filled to capacity flap gates will be installed on the discharge side of each pond.

Mr. Spencer recommended final approval subject to Vester & Associates providing a plan with the resizing of the ponds.

Commissioner Yount moved to grant final approval contingent on the receipt of the final design plans of the ponds, seconded by Commissioner Haan. Motion carried.

CCC Apartments

Dan Lee, Ticen, Schulte & Associates, presented the Board with final drainage plans for the CCC Apartments. The proposed 4.6 acre site is located at the Northeast corner of Old Romney Road and Elston Road. The runoff from the onsite watershed will drain to a catch basin located at the North side of the site then to a manhole inlet which will collect the water from the entire site. From the manhole the water will be taken under Old Romney Road to a swale which will direct the water to an existing detention basin. The emergency routing will be an existing 18 inch pipe which runs through St. Mary's Cemetery.

Helen Clark, 2311 Old Romney Road, presented the Board with a signed petition in opposition to Drainage Board approval of the CCC Apartments. The petitioners are concerned that additional water runoff will be created by the proposed apartments and produce a larger problem for the St. Mary's Cemetery.

Lisa Schrader, 715 Central, representing the St. Mary's Cemetery, stated the cemetery has an existing drainage problem caused by the runoff from the Southeast watershed. She is concerned the pond and the 18 inch pipe will not be large enough to handle the additional water from the construction of CCC Apartments.

Mr. Spencer suggested having a study done to determine the proper pipe size to replace the existing 18 inch pipe that currently runs through the cemetery.

Mr. Spencer stated the proposed CCC Apartments meets the requirements of the Tippecanoe County Drainage Ordinance and he recommended final approval.

Commissioner Yount moved to grant final approval of CCC Apartments subject to the revision of final drawings, seconded by Commissioner Haan. Motion carried.

Commissioner Yount moved to instruct the County Surveyor to instigate a study of the Old Romney Road and Elston Road drainage area, seconded by Commissioner Haan. Motion carried.

OTHER BUSINESS

TRIPLE J POINTE SUBDIVISION

Mr. Spencer stated Jim VanNess of Triple J Pointe Subdivision ran into a problem while working on one of the drainage solution associated with Triple J. The Board required a pipe to be installed under Old Romney Road that will carry the water from the subdivision and also drain the Wea-Ton, Rostone watershed area. Mr. VanNess stated a 10 inch gas main is in the way of installing the 60 inch drainage pipe.

Mr. VanNess asked who is responsible for the relocation of the gas main?

Commissioner Yount stated that the gas company will have to move the gas main at it's own expense. The County and the utility companies have an agreement that states if a project is a public improvement than it is the utilities responsibility to move the obstructing utility.

Commissioner Gentry suggested Mr. Spencer write a letter to the gas company stating that the work being done by Smith Enterprises is a public improvement and the gas line is in the County right-of-way. Therefore County Drainage Board requires them to move the gas line.

Commissioner Yount moved for Mr. Spencer to prepare a letter instructing the gas company that it is their responsibility to move the gas line, seconded by Commissioner Haan. Motion carried.

Commissioner Gentry recessed the meeting at 9:24 a.m..

Commissioner Gentry reconvened the meeting at 9:36 a.m..

DRAINAGE BOARD ORDINANCE CHANGES

WET BOTTOM POND CROSS SECTION

Commissioner Gentry asked for discussion of a wet bottom basin design requirements.

Dan Pusey, Pusey Surveying & Engineers, indicated that at the last discussion #3 of both requirements would read the same. In #3 with a fence the word "minimum" was omitted from the 12 inch maintenance ledge.

Mr. Spencer stated the word "minimum" will be added to #3. For #6 of both requirements, the shell will be replaced by shall.

Mr. Pusey referred to #5 with a fence "A means of maintaining the designed water level of the lake during prolonged periods of dry weather is also required." Mr. Pusey felt to say that the pond has to maintain a water level would be difficult with a seven acre pond.

Mr. Spencer indicated #5 was from the original ordinance and will be considered when it arises in an individual basis.

Darren Sorenson questioned #3 without fence, " material such as stone, riprap or other erosion control material which will prevent erosion due to wave action." Mr. Sorenson wanted to know if a erosion control material such as sod could be used in the case of the lot owners having an undivided interest in the pond?

Commissioner Gentry stated as long as the sod is proven to be an erosion control material.

Dale Koons, Civil Engineering, asked about #1 "Basin designed with permanent pools or containing permanent lakes shall have a water area of at least one-half acre." Is there any reasoning behind one-half acre?

Mr. Spencer stated he tried to find out where that originated from, but has not found anything.

Mr. Koons pointed out the surrounding towns have adopted the County Ordinance. The towns say the requirement for a permanent pond has to be atleast one-half acre, even if the pond does not need to be one-half acre.

Mr. Spencer expressed the language will be reviewed to see what else could be used.

Mr. Koons indicated that the slope of the flood pool to the normal pool is at a fixed 6 to 1 slope, could that be changed to a slope of 6 to 1 or flatter?

Mr. Spencer stated the drawing of the wet bottom detention facility without fence and #3 will be changed to indicate a 6 to 1 slope or flatter.

Commissioner Gentry stated the suggested changes will be made. The Drainage Board will pass it first and then make a recommendation to the Board of Commissioners.

DRAINAGE REVIEW FEES

Commissioner Gentry asked for discussion on the Engineering review fees.

Commissioner Yount felt the ten hour review rate is a fair amount of time for the County to absorb the cost of reviewing a new development.

Commissioner Gentry stated the better submittals the Board receives the quicker the project will go through the approval process.

Mr. Sorenson asked how this idea compares to other counties review fees?

Mr. Stolz stated other counties do not have review fees, but they have submittal cost that are based on the size of the project.

Commissioner Gentry expressed the Board did not want to have a submittal cost based on the size because after reviewing the project that have been submitted in the past two years, some of the larger project took less review time than a smaller project.

Being no further business Commissioner Haan moved to adjourn until November 2, 1994, seconded by Commissioner Yount. Motion carried.

DRAINAGE BOARD MINUTES OCTOBER 5, 1994 REGULAR MEETING 10/10/9410/04/94

Tippecanoe County Drainage Board
Minutes
April 6, 2005
Regular Meeting

Those present were:

Tippecanoe County Drainage Board President Ruth Shedd, Vice President John Knochel, member KD Benson, County Surveyor Steve Murray, Drainage Board Attorney Dave Luhman, Drainage Board Engineering Consultant Dave Eichelberger from Christopher B. Burke Engineering Limited, County Highway Engineer Tim Wells, Drainage Board Secretary Brenda Garrison and GIS Technician Shelli Muller.

Approval of Minutes

John Knochel made a motion to approve the February 23, 2005 Brookfield Heights/Brookfield Farms #116 Regulated Drain Hearing, the March 3, 2005 Regular Meeting minutes, and the March 10, 2005 Obstruction Hearing minutes as written. KD Benson seconded the motion. The aforementioned minutes were approved as written.

The Commons at Valley Lakes Phase 4

Meredith Byer and Pat Jarboe with T-Bird Designs appeared before the Board to present The Commons at Valley Lakes Phase 4 for final approval. Within Lafayette city limits, the thirty-seven acre site was located east of County Road 150 East (South 18th Street) and south of County Road 350 South. The Surveyor stated the project site drained into the J.N. Kirkpatrick Regulated Drain. The requested relocation of Branch Seven of the J.N. Kirkpatrick Regulated Drain was the reason for the Board's review, as well as direct discharge into the Regulated Drain. He went on to state the Board should review and approve the relocation of Branch Seven and direct discharge.

Meredith stated branch seven consisted of a 10" clay tile and was located in the southern portion of the site. The outfall for Branch Seven was located in Phase 3 of the Commons at Valley Lakes. This Branch would be intercepted within the Landings Phase 3, and redirected through the proposed conveyance system in Phase 4 of the Commons at Valley Lakes. She stated they were working closely with Crystal Joshua in the City Engineer's Office, and expected approval of the project's construction plans. A final copy of the drainage report and plans once finalized would be forthcoming.

The Surveyor noted the project's covenants should state in detail "No permanent structures allowed within the J. N. Kirkpatrick Regulated Ditch Easement throughout the site." He recommended final approval subject to conditions on the Burke Review Memo dated March 31, 2005 with the additional requirement of verbiage in the covenants as stated. He recommended an approval of a drainage variance for the project and stated it should be the first order of business.

John Knochel made a motion to grant The Commons at Valley Lakes Phase 4 a drainage variance for the direct discharge. KD Benson seconded the motion. A direct discharge variance was granted. John Knochel then made a motion to grant final approval for the Commons at Valley Lakes Phase 4 with the conditions stated in the March 31, 2005 Burke memo with the additional requirement in the covenants as stated. KD Benson seconded the motion. Final approval with the conditions as stated in the March 31, 2005 Burke memo to include the aforementioned language in the covenants was granted for The Commons at Valley Lakes Phase 4.

Lauren Lakes Section 1

Brandon Fulk with the Schneider Corporation appeared before the Board to present Lauren Lakes Section 1 for final approval. The Lauren Lakes project would be constructed in phases, with this phase consisting of seventy (70) single family homes. The section was located on twenty-eight (28) acres of the two hundred thirty one (231) acre project site, west of C. R. 75 East on the south side of C.R.500 North. The existing conveyance conditions were taken into consideration while modeling the site, and the new Stormwater Ordinance was used as a guideline for this project. Drainage for Section 1 was provided by an existing unnamed tributary to Burnett Creek, located in the eastern portion of the site. Brandon stated the unnamed tributary crossed C.R. 500 North and eventually tied into Burnett Creek at Coyote Crossing. He pointed out that an existing drainage basin traveled to C. R. 500 North and at times had overtopped the road, and noted the issue was addressed within the Section 1 plans. In addition, Prophet's Ridge pond tributary was included in the design analysis for the site.

As a side note, the Surveyor stated while the downstream conveyance was well documented by photographs, a narrative accompanying the photographs would be useful for future projects. The Surveyor stated the channel was well defined and did not anticipate a problem. John Knochel asked Mr. Ratcliff (landowner in attendance) how often he observed the County Road 500 North flooded. Mr. Ratcliff stated a few times, only since Winding Creek Subdivision was developed. He went on to say he felt the tile under the road had been compromised during the development of Winding Creek Subdivision. Brandon stated photos taken which indicated no flooding after the last rainfall event were provided. He went on to inform the Board that the submitted design addressed that issue as well. The release rates for this section were below the Ordinance requirement, and he anticipated the rates would be lower for the overall project as well. The project had received verbal approval from the County Highway Dept. for the entrance construction work. He stated he would work closely with the Surveyor's office concerning the covenants and restrictions for this project. He then requested final approval for this phase of the project. In response to KD's inquiry, he stated the safety guidelines per the 2005-04-CM Comprehensive Stormwater Ordinance were implemented for this project. The Surveyor noted the project design included hard surface safety ramps. Ruth Shedd asked for public comment, and there were no comments made.

The Surveyor added a condition to supply an Easement for the east line outlet point of Phase 1 to the defined conveyance. In response to the Surveyor's inquiry regarding the side ditch of County Road 500 North, Brandon stated he was confident the runoff would not top the road. He also indicated the Homeowners Association would be responsible for maintenance after three years and noted he would get a verification of that on record. Future maintenance could be a high cost to the lot owners and documentation of such maintenance responsibility would be required. The Surveyor then noted the Ordinance strongly recommended reasonable tree and native vegetation retention. He recommended final approval with conditions stated on the March 31, 2005 Burke memo, along with drainage easement documentation for both outlets from the detention ponds to the defined conveyance east of the East line of Phase 1. John Knochel made a motion to grant final approval for Lauren Lakes Section 1 with conditions stated on the March 31, 2005 Burke memo as well as the condition of drainage easement documentation for both outlets from the detention ponds to the defined conveyance east of the East line of Phase 1. KD Benson seconded the motion. Lauren Lakes Section 1 was granted final approval with conditions as stated on the March 31, 2005 Burke memo to include the added condition of drainage easement documentation for both outlets from detention ponds to the defined conveyance east of the East line of Phase 1.

Cascada Business Park Phase 1

Pat Jarboe and Meredith Byer with T-Bird Designs appeared before the Board to present Cascada Business Park Phase 1 for final approval. They were also requesting conceptual approval for the overall site. Pat stated the developer, Ron Whistler, was also in attendance today.

Phase 1 of the project consisted of 26.5 acres and located at the southwest corner of the overall 125-acre site. The overall site was located in the City of Lafayette, east of Creasy Lane on the north side of McCarty Lane. The Treece Meadows Relief Drain (also known as Layden Regulated Drain) was located along the western property line. Phase 1 would include two detention facilities and runoff would be discharged via the Wilson Branch of the S.W. Elliott Regulated Drain to the Treece Meadows Relief Drain. Of the overall project site, approximately 92.5 acres drained west to the aforementioned drain, approximately 10 acres drained northeast to the Alexander Ross Regulated Drain, and the remaining 21 acres drained to the Berlowitz Regulated Drain through storm sewers along McCarty Lane. He stated the developer was working with the City's Redevelopment Office to eventually extend Park East Boulevard. This would connect State Road 26 with McCarty Lane.

The Surveyor stated the Alexander Ross drain traveled behind the Super Wal-Mart, under the interstate into the pond area northwest of Meijers then under SR 26 and east of Frontage Road. Utilizing GIS, he then reviewed the route of the Ross Drain to familiarize the Board. Christopher Burke Engineering did an overall watershed study of that area and it had been well studied. Phase 1 would contain two detention facilities on the eastern border, and would collect significant portions of the remaining phases' runoff. They were designed to accept the developed portions' runoff outside of the Phase 1 development, and would do so once online. A variance would be required as portions of the site, which drained through the pond to the Treece Meadows Relief Drain, exceeded the allowable discharge rates. Those rates were the ten-year existing to the 100-year proposed and the 2-year existing to the 10-year proposed. Pat stated they had matched the 100-year existing levels to the 100-year proposed numbers due to downstream conditions. Therefore a variance was requested for the discharge rates. Pat provided the Board with draft agreements with the Power Company, which specifically stated the design was acceptable for the storage under the power lines. The Surveyor stated it was the Drainage Board's duty to grant a drainage variance and the City of Lafayette's to grant a variance for encroachment on the City's right of entry. At that time, Pat requested a release rate variance to include final approval for Cascada Business Park Phase 1 and conditional approval on the overall portions of the site. In response to KD's inquiry, Pat reviewed the entire site's watersheds for the Board. While limiting the amount of runoff outlet to the storm sewers along McCarty Lane, the design allowed for a larger area's runoff

directed to the detention facilities- as well as the Treece Meadows Relief Drain. The Surveyor noted Treece Meadows was designed for direct release. The Surveyor's Office was made aware of some problems in the area of Amelia Drive in the last few years. He requested Christopher B. Burke revisit their previous study and they have remodeled the area, and identified the problem areas. Regarding the Berlowitz Drain and McCarty Lane, the City agreed to fund upsizing of the storm sewers along McCarty Lane, when the County constructed it between Creasy Lane and 500 East. It was designed to take the 100 year developed condition. He stated the developer would pay a fee for storage in the planned Berlowitz Detention facility. Ruth Shedd then asked for any comments from the public. No comments were made.

The Surveyor then recommended granting a release rate variance under condition two of the April 11, 2005 Burke memo. John Knochel made a motion to grant the variance under condition number two of the April 1, 2005 Burke memo. KD Benson seconded the motion. The Surveyor recommended final approval for Phase 1 and conceptual approval for the overall project with conditions as stated on the April 1, 2005 Burke memo, while striking the last paragraph in condition number two on said memo. John Knochel made a motion to grant final approval for Phase 1 and conceptual approval for the overall development with conditions as stated on the April 1, 2005 Burke memo while striking the last paragraph in condition number two on said memo. KD Benson seconded the motion. Cascada Business Park Phase 1 was granted a variance for the release rates. Cascada Business Park Phase 1 was granted final approval. Cascada Business Park was granted conceptual approval for the overall development.

Journal and Courier Publication Facility

Meredith Byer and Pat Jarboe appeared before the Board to present the Journal and Courier Publication Facility for final approval. The site consisted of 8 acres of a 10 acre parcel located between McCarty Lane and 200 South (Haggerty Lane) on the east side of County Road 500 East. A printing facility, loading docks and a parking area would be built on the site. A private road would provide access from County Road 500 East. The existing 66-inch storm sewer would be extended south from the project site to provide an outlet for future projects to the south. The project's runoff would be collected via catch basins and curb inlets and conveyed through new storm sewers to the 66-inch diameter storm sewer. A portion of the site would be discharged to the Berlowitz Drainage Facility located on at the northeast corner of County Road 500 East and McCarty Lane through the said 66-inch storm sewer along the east side of County Road 500 East. The developer would pay the storage fee associated with the said facility. At that time Meredith requested final approval for the Journal and Courier Publication Facility. Ruth Shedd asked for any public comment. There was no public comment.

The Surveyor recommended the second paragraph in the April 1, 2005 Burke memo be added as a condition. John Knochel made a motion to grant the Journal and Courier Publication Facility final approval with conditions as stated on the April 1, 2005 Burke memo as well as the added condition noted as the second paragraph of said memo. KD Benson seconded the motion. Final approval with conditions was granted for Journal and Courier Publication Facility.

Parker Ditch

The Surveyor requested the Board's attention to Dave Labonte, 720 Clifty Falls Lane, who was in attendance. Mr. Labonte wanted to inform the Board of an issue concerning Parker Ditch. GIS was utilized to review the area in question, specifically north of Haggerty Lane and east of SIA. The Parker Open Ditch project was a new concrete storm sewer constructed as an outlet for the Subaru Isuzu Automotive Plant in the 1980's. Economic Development grant monies paid for the construction of the concrete storm sewer. The Surveyor stated Parker Ditch was an existing agricultural tile at the time of construction and still had laterals tied into the new ditch. The agricultural tile ran under 200 South, east under interstate 65, and outlet at 650 East. From that point it was constructed as an open ditch all the way to the South Fork of Wildcat Creek. There were two concrete fords constructed to connect property that the open ditch severed. Mr. Labonte's entrance to his property was off 650 East (1 acre) and the building site (8 acres) was on the opposite side of the open channel. The Surveyor stated the concrete ford which was at least 24 inches of concrete had undermined and collapsed straight down. It appeared to be poor design or lack of maintenance that caused the collapse. After reading through numerous files on Parker Ditch and SIA the Surveyor found a Petition to Establish the open portion as part of the Regulated Drain, had never been filed. The second problem was a crossing over a regulated drain was typically the responsibility of the landowner. Mr. Labonte was now faced with the considerable cost of a new crossing over Parker Ditch. He noted Mr. Labonte had been very patient, however he was ready to start the building process at this time. A maintenance fund for Parker Ditch existed for the pre-existing agricultural tiles that tied into the new concrete storm sewer. At the time the concrete ford was constructed, a maintenance fund was intended to be set up for both the open portion as well as the preexisting tiles. The Surveyor stated he felt the Board should give Mr. Labonte a clear answer to his problem. Discussion at the time indicated SIA would be the sole contributor into the maintenance fund for the open portion of Parker Ditch and the majority of the assessment would then be assessed to other developments as they were created. The farmers would not bear the majority of the cost. The Board Attorney stated

since the drain was not functioning as intended due to the collapse of the concrete inside the ditch, the Board or the County could be the petitioner to establish the maintenance fund for the open portion. The Surveyor and Attorney would insure the necessary steps were taken to establish a maintenance fund for the open portion of the Parker Ditch. In response to Mr. Labonte's inquiry, the Surveyor stated he thought all the required documentation was on hand. Mr. Labonte thanked the Surveyor for his efforts and the Board for their time on this matter.

Lewis Jakes Ditch

Dale Butcher of 8171 North 300W appeared before the Board to discuss the Lewis Jakes Ditch. With heavy rains in the past year or so, he has worked closely with the Surveyor on the problems associated with the ditch. He stated the Surveyor had been very professional throughout this time. He expressed appreciation for time the Surveyor had spent with him on the drainage issue. He noted landowners were in favor of addressing the issue and was anxious to schedule a maintenance hearing. The Surveyor stated downstream of the old tile outlet had been surveyed, however more surveying and investigation was warranted. He informed Mr. Butcher he was prepared to ask the Board in an upcoming Special Drain Meeting to refer the Lewis Jakes Ditch to him for a final report. He anticipated he would be able to complete the report within thirty-sixty days of the Special meeting.

Petition to Establish a New Regulated Drain/ F. Wilson / Shelby Township

The Surveyor stated a Petition to Establish a New Regulated Drain was submitted to the Surveyor's Office by Mr. Norman Bennett 952 Kerber Road West Lafayette Indiana 47906. The Surveyor noted the Board, at the Whaley/ Mackey Obstruction Hearing held on March 10, 2005, discussed this private drain. Mr. Bennett was in attendance today. Based on the preliminary watershed information, a total of 94% of the benefited landowners had signed the Petition. The Attorney directed the assessment spreadsheet be attached to the Petition. He went on to say petitioners were required to reimburse the County if the petition did not pass, however that condition could be waived. John Knochel made a motion to refer the Petition back to the Surveyor for a report to the Board in the future. KD Bensons seconded the motion. The Petition was referred back to the Surveyor for a report. Due to the drain currently under standing water, investigation would be more difficult and the Surveyor wanted the Board to be informed of the situation.

**Maintenance Bonds
Creekside Subdivision/Shawnee Ridge Phase 3**

The Surveyor presented a Letter of Credit # 557 in the amount of \$15,976.00 dated March 7, 2005 from Mennan Builders for Creekside Subdivision and recommended acceptance by the Board. John Knochel made a motion to accept the Letter of Credit as presented. KD Benson seconded the motion. Creekside Subdivision Letter of Credit # 557, amount \$15,976.00, dated March 7, 2005 was accepted by the Board. He then presented Shawnee Ridge Phase 3 Maintenance Bond# 5013361 in the amount of \$4300.00 dated Oct. 4, 2004 from Atlas Excavating for acceptance. John Knochel made a motion to accept the Maintenance Bond for Shawnee Ridge Phase 3 as presented by the Surveyor. KD Benson seconded the motion. Maintenance Bond # 5013361 in the amount of \$4300.00 dated Oct. 4, 2004 for Shawnee Ridge Phase 3 was accepted.

Public Comment

Ruth Shedd asked for public comments. As there were none, John Knochel made a motion to adjourn the meeting. KD Benson seconded the motion. The meeting was adjourned.

Ruth Shedd, President

John Knochel, Vice President

Brenda Garrison, Secretary

KD Benson, Member

Tippecanoe County Drainage Board
Minutes
February 6, 2008
Regular Meeting

Those present were:

Tippecanoe County Drainage Board President KD Benson, Vice President John Knochel, member Ruth Shedd, County Surveyor Steve Murray, Drainage Board Attorney Dave Luhman, Drainage Board Engineering Consultant Dave Eichelberger from Christopher B. Burke Engineering Limited, and Drainage Board Secretary Brenda Garrison. Project Manager Zachariah Beasley was also in attendance.

Approval of Minutes

John Knochel made a motion to approve the February 6, 2008 Regular Drainage Board minutes as written. Ruth Shedd seconded the motion. The February 6, 2008 Drainage Board meeting minutes were approved as written.

Subaru Warehouse #9

Woody Roeschlein from RQAW Corporation appeared before the board to request final approval for Subaru Warehouse #9 (aka Butler Building). The site was located within the City of Lafayette specifically along State Road 38 between County Road 475 East and Interstate 65 (west of the existing manufacturing plant) and consisted of approximately 2.5 acres of the 830 acre site. The site drained to an on-site detention facility before being discharged into the Parker Ditch. Additional storm drains would be installed west of the proposed addition and connected to the existing storm sewers onsite. As a condition of drainage approval, Woody stated the Consultants for the Board required a new site analysis of the overall picture. A hydraulic analysis was performed in 1995 by his company and Burke felt the analysis needed to be revised. The new warehouse would drain to pond #5 - north of the engine plant. In 2002-2003 the water was diverted from pond #3 to pond #5. Pond #5 was enlarged during the construction of the said engine plant. This will be reflected in the total site analysis report. The new warehouse would have minimal discharge effect on the Parker Ditch. The existing site would be changed to roof and asphalt. Along with the new warehouse a turn around and parking area was planned. Responding to KD's inquiry, Woody stated pond #3 was originally designed for a four foot freeboard. The maximum elevation for a hundred year storm left it with a two foot freeboard. He stated that pond would not overflow. Dave Eichelberger noted the analysis showed storage and discharge curve that went up to 658 contours. The model indicated pond overtopped during routing that calculated peak outfall/elevation was invalid. He stated the map of the area was small and he could not determine if the 658 contour ends around the lake or if the lake was totally ringed by 660 contour. Woody had stated in an email the 660 contour ringed the pond. Dave felt it still needed to be remodeled. If it was getting above 658 there was actually more storage in the pond than the model indicated and the elevation would get higher than 658. This would cause more head on the pipe which in turn caused more discharge to pond #4 which meant pond #4 was not receiving the correct amt. of water getting to it. One of the first steps to pond #3 would be discharge in storage curves which go to the top of the pond and not some point below. The Surveyor then interjected details would be worked out with the Engineers involved. The main concern was the ultimate discharge to the Parker Ditch which routed under County Road 200North and on to the northeast to the Wildcat Creek. The Surveyor recommended final approval with conditions as the modeling question would be resolved. There was no public comment. John Knochel made the motion to grant final approval with the conditions stated on the January 24, 2008 Burke memo. Ruth Shedd seconded the motion. The Subaru Warehouse #9 was granted final approval with the conditions stated on the January 24, 2008 Burke memo.

Stones Crossing Self Storage

Eric Gleissner from Civil Site Group who represented G&L Development appeared before the board and requested final approval for the Stones Crossing Self Storage. The project consisted of six self storage buildings and an office on the overall 5.6 acre site. It was located approximately 800 feet south of the intersection of Promenade Parkway and County Road 350 South. Eric noted approximately 2 acres of the site consisted of existing easements, most notably the JN Kirkpatrick Regulated Drain which ran along the entire southern boundary of the site. Direct discharge was proposed to the JN Kirkpatrick Drain. Hydrodynamic separator structures would be used to address the post construction stormwater quality requirements. He then requested final approval with the conditions as listed on the February 1, 2008 Burke memo. In response to KD's inquiry Eric stated he was in agreement with the memo regarding the encroachment request. A formal request would be forthcoming. The 15 feet encroachment on the JN Kirkpatrick Regulated Drain Easement was for proposed pavement, fencing and landscaping. A buffer yard was required due to the residential area on the opposite side of the said

drain. This would leave a 25-30 feet area on the top of the bank for maintenance. The Surveyor noted a formal petition would be required. He had also talked with Mr. Keene of G&L Development concerning their maintenance of the vegetation in the channel. Also the easement was still legally in the City of Lafayette's name and acquired by the City as part of the interlocal agreement for the Twickingham ditch project. Typically easements were transferred to the Drainage Board. At the time there was a disagreement involving the Twickingham Bridge; this has since been resolved. However the transfer was never completed although that was the intent. The current preliminary indication was the City of Lafayette was willing to transfer the easements to the Drainage Board. He further stated this may be something the Board Attorney should discuss with the City Attorney. Dave Luhman then stated to the extent it encroached on the Right of Entry Easement - the Board can consent to the encroachment. This would be separate from encroaching on the platted easement. Responding to KD's inquiry, Dave stated the city could consent to the encroachment and transfer to the Board which would be subject to the consent or they could transfer the easement to the Board and then the Board could consent to the encroachment requested. However today the Board could not consent to the encroachment into the City's Easement. It could be approved subject to the filing of an Encroachment Petition. Eric noted he was in receipt of an approval letter from Bob Foley of the City Engineer's office. The Surveyor noted he was prepared to recommend final approval with the conditions as stated on the February 1, 2008 Burke memo. There was no public comment. John Knochel made a motion to grant final approval of Stone's Crossing Self Storage with the conditions as stated on the February 1, 2008 Burke memo. Ruth Shedd seconded the motion. The Stone's Crossing Self Storage was granted final approval with conditions as stated on the February 1, 2008 Burke memo.

Other Business

2008 Regulated Drain Status List

The Surveyor presented the 2008 Regulated Drain Status list to the Board for approval. He stated a correction or two may be made before it was submitted to the Auditor office as required. John Knochel made a motion to approve the 2008 Regulated Drain Status list presented along with corrections if any by the Surveyor. Ruth Shedd seconded the motion. The 2008 Regulated Drain Status list was approved by the Board (*Note: a copy of the list as submitted to the Auditor office will be included in the official Drainage Board minutes immediately after the minutes at hand.*)

Candlewood Suites- Petition to Reconstruct Alexander Ross Regulated Drain

Clem Kuns from TBIRD Designs appeared before the Board and presented the Petition for Reconstruction of the Alexander Ross Regulated Drain for approval. He noted in the future they will present to the Board an additional Petition to Encroach on a Regulated Drain regarding future drive crossings. He then requested approval for the Reconstruction of the Alexander Ross Regulated Drain as submitted to the Board. The Attorney noted the Petition was in proper form and it had been addressed last month with approval of the drainage plans which reflected the relocation. As long as it is within their site, completed at their expense the Board could approve and they could relocate the drain. The Surveyor noted in addition to the revised encroachment agreement, they will need to formally vacate a portion of the platted easement which Mr. Luhman supplied with the form and instructions to do so. He stated the new Regulated Drain Easement should be completed at the same time. The Attorney clarified as follows: "There is now a platted easement and they want to relocate the drain. Merely relocating the drain does not replat the easement. The Surveyor suggests they vacate the existing platted easement and there should be a corresponding dedication of a platted easement for the relocated drain at the same time." The Surveyor then recommended the Board approve the Petition to Reconstruct the Alexander Ross Regulated Drain as presented. John Knochel made a motion to approve the Petition to Reconstruct the Alexander Ross Regulated Drain. Ruth Shedd seconded the motion. The Petition to Reconstruct the Alexander Ross Regulated Drain was approved as presented.

Sanitary Landfill/Gary Brown

Mr. Gary Brown appeared before the Board to request an inquiry into a Stormwater problem south of the landfill located at 2801 North Ninth Street Lafayette Indiana. The Surveyor and Mr. Brown walked the area in 2003-2004 and discovered blockage below the clover leaves under St. Rd. 52 and through the Oscar Winski Company tract. An investigative report requested by the TERF Board and completed by the Kermida Environmental Incorporated indicated problems with the area's drainage. Gary requested the Drainage Board send out informational letters to those affected property owners. He stated when the Wabash River floods the water can not drain back south as it use to through the Wabash & Erie Canal and under Ninth Street and back to the River. Due to the blockage the water now continues to flow toward the north. This affects all the property owners north of the landfill. The landfill was designed to drain from the north to the southwest therefore the blockages seem to be the problem. (The Surveyor presented the 1930's aerial photos which indicated the path of the old Wabash & Erie Canal to the Board.) He had also reviewed the bridge plans which indicated expansion to four lanes and showed the Canal at that time. They also indicated the cross section of it and a flow arrow indicating runoff to the southwest.

There was a bridge under the railroad tracks, a bridge under North Ninth Street, however he stated he was not sure at what point the berm was put in. The berm was located underneath the U.S. 52 Bridge between the Railroad tracks and the access road to the Monon shops and what was the active gravel pit. He stated after the tour of the site he felt sure that was the problem. However he had not been any further downstream. A review of the aerial photo indicated a channel which did provide relief. He stated Gary had farmed the area since he was very young. He had made a couple of site visits to the gentleman's property who lived at the very end of Conservation Club Road and he had noticed the same change as Gary. As the area floods there was nowhere for the water to get out. He felt starting with a letter from the Drainage Board advising the landowners affected of the Kermida Study and its observations made by their Engineers was warranted. The only option at that time would be to consider going through an Obstruction Petition process which was difficult and often did not lead to a firm answer. John Knochel asked Gary how long he had been farming that location. Gary stated he started in 1985 farming the Hacky property, but he was farming the Horner and Frier property (south of the landfill) since the early 1970's. John Knochel noted this was prior to the Railroad Relocation at which time the clover leafs were put in. Responding to John, Gary agreed this was around the time he started noticing drainage problems. In July 2003 his crops were completely damaged and he lost 1000 acres. In 2004 he had the same problem but was able to replant then. That was when he realized there was a problem as he noted then the water continued to go north. He stated it was obviously blocked at the clover leaf. He stated as you go on down there were several blockages. The Attorney explained the process for filing an Obstruction Petition for the removal of obstruction(s). If the obstruction(s) was intentional it would have to be removed at that particular landowner's individual cost. If the obstruction(s) was unintentional then the removal would be cost shared among all affected landowners. John Knochel made a motion for the Surveyor to draft a letter and send to those parties involved. KD noted the letters would go to those landowners located in between Gary Brown's property and the Wabash River. John included in his motion to send a copy of the Kermida study with each letter and that the Drainage Board would sign the letters. Ruth Shed seconded the motion. An informational letter and a copy of the Kermida Report would be sent to the affected landowners.

Steve Murray
S.W. Elliott Ditch/ Gaging

The Surveyor stated the Board was aware in order to solve what appeared to be an artificially high 100 year flood based on conventional modeling, a gaging station on the Elliott Ditch was proposed. After speaking with the USGS office, they were willing to participate in the cost of the station. Dave Eichelberger stated the cost for installation would be \$12,000.00 and would be billed in October this year. Due to matching funds from the USGS there would be no operating expense for the County this year. Next year the O&M would be approximately \$6,900.00. This would be billed to the County in October of 2009 and every year after that. They would be supplying a 40% match to the County's 60% for operating costs. This would be the minimum from USGS and that may increase in future years. The installation would take three to four days. The joint funding agreement presented to the Board today would start the process. The Surveyor recommended the Board authorize the President to sign the document. John Knochel made a motion for the President to sign the agreement with the USGS. Ruth Shedd seconded the motion. The Drainage Board President would sign the U.S. Department of the Interior U.S. Geological Survey Joint Funding Agreement regarding gaging on the Elliott Ditch.

Public Comment

Clem Kuns from TBIRD Designs asked how many gaging stations would be installed on the Elliott Ditch. Dave Eichelberger responded one gaging station. He then asked how long the station would be installed for. The Surveyor stated it depended on rainfall events as it could be immediately or 3-5 years potentially.

Steve Murray
Maintenance Bonds

Responding to KD's inquiry regarding The Greens PD, the Surveyor noted to date all the information received indicated everything had been installed and he had forwarded her email to the Project Manager for follow up. The Project Manager then approached the Board and stated he was able to speak with the Stormwater Coordinator and the drain pipe referenced in KD's email was located on Lot 11 and appeared to be a 4-6 inch in diameter PVC pipe. The Coordinator thought by observation it appeared to be a perimeter drain for their basement on Lot 11. He stated they would look into this further. The Surveyor stated that particular development must have individual site plans submitted to his office for approval and the drain should have been shown on the drawings submitted for that lot. Additional investigation would be done and KD would be informed of the outcome. The Surveyor stated he had received another email regarding the pond to the south from Mr. Gurly questioning whether or not the pond had been installed properly. It has a 4 inch orifice plate on it and everything appeared to be installed properly.

The Surveyor presented the following to the Board for acceptance. A Letter of Credit (note: no number) submitted by Superior Structures written by Lafayette Community Bank regarding Meadowgate Estates Section 2 Lot 14 dated December 6, 2007 in the amount of \$1,000.00. A Letter of Credit #412 submitted by the Greens LLC written by Salin Bank regarding The Greens PD Swale Lot 9 dated January 29, 2008 in the amount of \$11,486.00. Maintenance Bond #3634059 submitted by Fairfield Contractors written by Great American Insurance for the Greens PD Amended final Plat and Lots 9&10 dated Dec. 19, 2007 in the amount of \$7,500.00. Maintenance Bond Secured by Deposit submitted by Steve Schrader regarding The Greens Amended Final Plat 08-09-07 and Lots 9&10 and Amended Final Plat 12-12-07 written by Salin Bank dated January 18, 2008 in the amount of \$517.50. A Performance Bond submitted by Atlas Excavating regarding Stones Crossing Sections 1 and 3 Outlet Structures (JN Kirkpatrick Drain) and written by Union Planters Bank dated January 11, 2008 in the amount of \$5,000.00. Maintenance Bond #1831883 submitted by Atlas Excavating written by Hanover Insurance Company regarding Stones Crossing Section 1 dated February 6, 2008 in the amount of \$35,910.00. Maintenance Bond #1831884 submitted by Atlas Excavating regarding Stones Crossing Section 2 written by Hanover Insurance dated February 6, 2008 in the amount \$34,900.00. Maintenance Bond #1831885 submitted by Atlas Excavating written by Hanover Insurance Company regarding Stones Crossing Section 3 dated February 6, 2008 in the amount of \$4,500.00. Maintenance Bond #5030698 submitted by Benjamin Crossing LLC written by Bond Safeguard Ins. Company regarding Hunters Crest Section 3A dated January 14, 2008 in the amount of \$20,200.00. John Knochel made a motion to accept the Maintenance and Performance Bonds and Letter of Credits as submitted by the Surveyor. Ruth Shedd seconded the motion. The aforementioned Letters of Credit, Maintenance Bonds and Performance Bond was accepted as presented by the Surveyor.

With no additional public comment, John Knochel made a motion to adjourn. The meeting was adjourned.

KD Benson, President

John Knochel, Vice President

Brenda Garrison, Secretary

Ruth Shedd, Member

Tippecanoe County Drainage Board
Minutes
June 4, 2008
Regular Meeting

Those present were:

Tippecanoe County Drainage Board President KD Benson, Vice President John Knochel, member Ruth Shedd, County Surveyor Steve Murray, Drainage Board Attorney Dave Luhman, Drainage Board Engineering Consultant Dave Eichelberger from Christopher B. Burke Engineering Limited, and Drainage Board Secretary Brenda Garrison. Project Manager Zachariah Beasley was also in attendance.

Approval of Minutes

John Knochel made a motion to approve the May 7, 2008 Regular Drainage Board minutes as written. Ruth Shedd seconded the motion. The May 7, 2008 Drainage Board meeting minutes were approved as written.

Armed Forces Reserve Center

Michael Turchi with Butler Fairman and Seufert appeared before the Board to request final approval for the Armed Forces Reserve Center. The site consisted of approximately 16 acres and located east of the intersection of C. R.'s 475E and 200S, north of the existing SIA manufacturing plant. Mr. Turchi stated the site's runoff would release into C.R. 200S north side ditch with an indirect outlet into Parker Ditch. The existing pond in the southeast corner would be expanded and equipped with a Stormceptor structure. A new pond would be constructed in the northwest corner. A variance from Chapter 6 Section C.4 required right of way width was requested. The expansion of the existing dry detention facility that had been in place since 1994 would create an off-set of 60 feet north of the right of way of C.R. 200S. He noted an 8 foot in height steel and concrete pillar fence would be constructed along the C.R. 200S right of way line for the entire length of the site. The Surveyor stated C.R. 200S was actually annexed into the City and recommended granting the variance as requested. Mr. Turchi noted the City of Lafayette had provided a letter of acceptance for the project as planned. John Knochel made a motion to grant a variance of the right of way width. Ruth Shedd seconded the motion. The variance was granted as requested. The Surveyor then recommended final approval with the conditions as listed on the May 30, 2008 Burke memo. John Knochel made a motion to grant final approval with the conditions as listed on the May 30, 2008 Burke memo. Ruth Shedd seconded the motion. Armed Forces Reserve Center was granted final approval with the conditions as listed on the May 30, 2008.

Other Business

Steve Murray

Maintenance Bonds

The Surveyor presented the following Bonds and Letter of Credit for acceptance as follows: Weathersfield PD/Maintenance Bond#B0302420 submitted by F&K Const. in the amount of \$2905.50 and dated 05-06-08, Park 350 Sec 1/ Maintenance Bond#3634139 submitted by Fairfield Contractors Inc. in the amount of \$96,170.00 and dated 05-16-08, Lafayette Warehouse/Payment and Performance Bond #929453375 submitted by Shiel Sexton Co. in the amount of \$113,000.00 and dated 05-19-08, New TRW/ Letter of Credit. #592 submitted by Becknell Construction in the amount of \$211,000.00 and dated 05-16-08. John Knochel made a motion to accept the Bonds and Letter of Credit as follows; Weathersfield PD/Maintenance Bond#B0302420 submitted by F&K Const. in the amount of \$2905.50 and dated 05-06-08, Park 350 Sec 1/ Maintenance Bond#3634139 submitted by Fairfield Contractors Inc. in the amount of \$96,170.00 and dated 05-16-08, Lafayette Warehouse/Payment and Performance Bond #929453375 submitted by Shiel Sexton Co. in the amount of \$113,000.00 and dated 05-19-08, New TRW/ Letter of Credit. #592 submitted by Becknell Construction in the amount of \$211,000.00 and dated 05-16-08. Ruth Shedd seconded the motion. Weathersfield PD/Maintenance Bond#B0302420 submitted by F&K Const. in the amount of \$2905.50 and dated 05-06-08, Park 350 Sec 1/ Maintenance Bond#3634139 submitted by Fairfield Contractors Inc. in the amount of \$96,170.00 and dated 05-16-08, Lafayette Warehouse/Payment and Performance Bond #929453375 submitted by Shiel Sexton Co. in the amount of \$113,000.00 and dated 05-19-08, New TRW/ Letter of Credit. #592 submitted by Becknell Construction in the amount of \$211,000.00 and dated 05-16-08 were approved as presented.

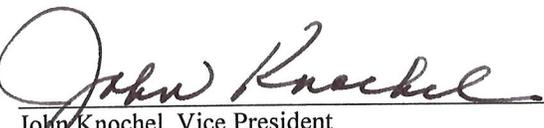
Public Comment

Malcolm Miller 1 North 1025E Lafayette Indiana approached the Board. Mr. Miller expressed his concern regarding the lack of maintenance on the John Hoffman Regulated Drain. He stated the last 4 or 5 years the drain's surface had grown up and the tile was in disrepair in several locations and felt the tile was blocked under C.R. 1025E. He presented the Board with pictures he had taken this month indicating flooding of one of his fields and growth over the surface of the tile. The Surveyor noted the drain was surveyed within the last few years and agreed there were isolated areas which needed attention. He felt it was probably in need of clearing and spot cleaning as well. East of 1025E was being farmed through the surface conveyance. The upper end at several locations had tile breakdowns which were repaired previously. He noted the tile maintenance had been done consistently in the past. However the amount of drain reconstructions completed in the last 2 years as well as in progress had impacted the maintenance of drains. Those drains in need of maintenance would be addressed this fall. The Project Manager reiterated the Surveyor's comments and stated several tile repairs had been completed from the outfall into Carroll and Clinton Counties. He agreed it did need additional maintenance in certain areas and was on the list. Jeff Haan 10915 East 40S Lafayette Indiana 47905 approached the Board. He stated he felt the problem was along C.R. 900E. He stated he had never seen Mr. Miller's field flood the way it did after an inch of rain recently. He thought it was approximately 15 acres under water and would like the County Surveyor to look at it as soon as the work load permitted. The Surveyor stated he would have his staff check the drain's condition and make the appropriate repairs.

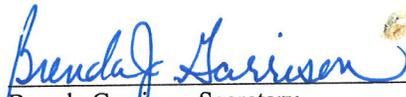
John Knochel made a motion to adjourn. The meeting was adjourned.



KD Benson, President



John Knochel, Vice President



Brenda Garrison, Secretary



Ruth Shedd, Member

Tippecanoe County Drainage Board
July 11, 2012
Regular Meeting Minutes

Those present were:

Tippecanoe County Drainage Board President David Byers, Vice President Thomas Murtaugh, member John Knochel, County Surveyor Zachariah Beasley, Drainage Board Attorney Dave Luhman, Drainage Board Secretary Brenda Garrison and Drainage Board Engineering Consultant Dave Eichelberger from Christopher B. Burke Engineering LLC.

Approval of Minutes

Tom Murtaugh made a motion to approve the July 11th, 2012 regular minutes as written. John Knochel seconded the motion. The July 11, 2012 regular meeting minutes was approved as written.

Purdue Research Park Phase 3 Part 2 Section 1

Jim Pence of Schneider Corp. approached the Board and requested conditional approval for the Purdue Research Park Phase 3 Part 2 Section 1 project. The project site was located on the west side of Yeager Road (Co. Rd. 100 West) approximately 1300 feet north of Kalberer Road and consisted of 5 acres. The project was located within the City of West Lafayette limits. The Surveyor noted the City of West Lafayette would approve the onsite stormwater measures. The site's discharge into the Dempsey Baker Regulated Drain had been reviewed. He recommended conditional approval as stated on the June 22, 2012 Burke memo. Tom Murtaugh made a motion to grant conditional approval as stated on the June 22, 2012 Burke memo. John Knochel seconded the motion. Purdue Research Park Phase 3 Part 2 Section 1 was granted conditional approval as stated on the June 22, 2012 Burke memo.

Crosswalk Commons

Mark Rhinehart of Engineering Resources Inc. approached the Board and requested Preliminary approval for Crosswalk Commons project. The site was located on 1.35 acres west of Hilltop Drive on the Purdue University Campus. He noted approximately 12 acres of runoff routed through the site via an existing drainage easement. Underground detention was planned for the site's majority of runoff. Approximately .35 acres of the site would continue to sheet flow into the drainage easement as in present condition. Due to the topography and planned preservation of the onsite wooded area, variances regarding the stormwater quality and stormwater release requirements were requested. He then asked for preliminary approval from the Board. The Surveyor reviewed the site for the Board utilizing G.I.S. He noted the plans were reviewed, reminded the Board they were seeking preliminary approval only today and the project would be back in front of the Board for final approval in the future. He stated the variance requests were reviewed as well. Due to terrain restrictions onsite, he recommended approval of the variances as requested along with preliminary approval as stated in the July 5, 2012 Burke memo. Tom Murtaugh made a motion to grant approval for the Variance of stormwater quality for entire site as requested. John Knochel seconded the motion. Tom Murtaugh made a motion to grant approval for the Variance of post construction configuration regarding a stormwater quality offline unit. John Knochel seconded the motion. Tom Murtaugh made a motion to grant a Variance regarding the allowable release rate due to the site's restrictions. John Knochel seconded the motion. Tom Murtaugh made a motion to grant preliminary approval with conditions as stated in the July 5, 2012 Burke memo. John Knochel seconded the motion. Crosswalk Commons was granted the variances requested and preliminary approval as stated in the July 5, 2012 Burke memo.

S.I.A. Body Shop and Warehouse #10

Stan Jones of RQAW Corp approached the Board and requested conditional approval for S.I.A. Body Shop and Warehouse #10 project. The site was located along State Road 38 between County Road 475 East and Interstate 65 within the City of Lafayette's limits. The projects were previously addressed within the overall Master Drainage Report for S.I.A. Warehouse #10 would include a total of 16 dock areas. The overall site outlet to Parker Ditch Regulated Drain. The current project location drained into a basin known as pond #5. The Body Shop would be expanded with a container yard and drain to a basin known as pond #2. Presently, Pond #2 outflows to Pond #4 then outlets into Parker Ditch Regulated Drain - he noted this would not change. He stated they were given approval for 178 allowable cfs on the original overall site design in 1987, and stated with these additions, the cfs rate was at 167. He noted they were within the limits approved by the Board in 1987. He requested approval for the S.I.A. Body Shop and Warehouse #10 projects. The Surveyor stated the projects were being

reviewed by the Board for the discharge into Parker Ditch Regulated Drain. He noted the plans were reviewed and followed their Master Drainage Study. He recommended approval for the S.I.A. Body Shop and Warehouse #10 projects as stated on the June 19, 2012 Burke memo. Tom Murtaugh made a motion to grant conditional approval as stated on the June 19, 2012 Burke memo. John Knochel seconded the motion. S.I.A. Body Shop and Warehouse #10 was granted conditional approval as stated on the June 19, 2012 Burke memo.

Black Swan Peat Mining
Petition to Encroach on the Delphine Anson Regulated Drain
Petition to Partially vacate and relocate a portion of the Delphine Anson Regulated Drain

The Surveyor presented a Petition to Encroach on the Delphine Anson Regulated Drain and a Petition to Partially Vacate and Relocate a portion of the Delphine Anson Regulated Drain to the Board for approval. The Peat Mining operation's site was located north of Harrison High School on County Farm Road (aka Co. Rd. 50 West) where the county road makes a bend to the west, then north to the dead end. He stated he worked with Mr. Kyle Betz of Fisher and Assoc. on the Petitions as submitted and recommended approval by the Board. Tom Murtaugh made a motion to grant approval of the Petition to Encroach on the Delphine Anson Regulated Drain. John Knochel seconded the motion. Tom Murtaugh made a motion to grant approval of the Petition to Partially Vacate and Relocate a portion of the Delphine Anson Regulated Drain as presented. John Knochel seconded the motion. The Petition to Encroach on the Delphine Anson Regulated Drain and the Petition to Partially Vacate and Relocate a portion of the Delphine Anson Regulated Drain were granted approval as submitted.

Zach Beasley
Regulated Drain(s) Update

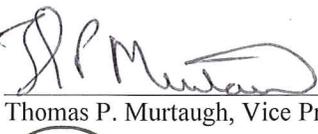
Train Coe #18 Regulated Drain

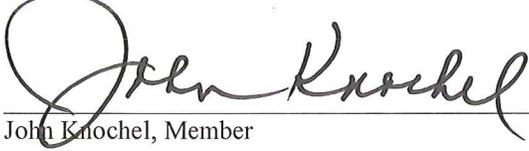
The Surveyor noted his office was in the process of obtaining the required permits regarding the Train Coe #18 maintenance work as planned. The Surveyor noted the Calvin Lesley #48 Reconstruction Phase I (open portion) was awarded. Phase II (tile portion) reconstruction bids were due in his office on August 1, 2012 at 9:30 a.m. hopefully the second phase would be awarded during the Drainage Board Regular meeting at 10:00 a.m. He noted his office was in the process of compiling plans and obtaining quotes regarding the Mary Southworth Regulated Drain # 74 maintenance work. At that time he referred back to the Board.

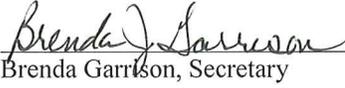
Public comment

As there was no public comment, John Knochel made a motion to adjourn. The meeting was adjourned.


David S. Byers, President


Thomas P. Murtaugh, Vice President


John Knochel, Member


Brenda Garrison, Secretary