city of Oshton Pheasant auck 12-3-91 Public Works 9:00 MM (City Hell) Meeting Attendants Jerry Conrad (Director of Public Works) Ed Potempa (City engineer) Richard Malmgren (Developer) Krick Hoeft (Zoning dept, - drainage inspector-G.) Reason for Meeting -Pheasant Creek Farm Subdivision Final Prairiege plan phase I. Storm sewer outlet west of Jack Hogan property and drawage of detal where pipe outlets. Poor drainage and concerns of damage to adjacent properties. Results and Conclusion - Action before winter freeze up. The city will excavate the N-S detal it least from the outlet pipe and through Jack Hogans property to allow more capacity for the flowin this area. The city will elsoput an elbow on the pipe to redirect water flow to the north. The self fines will be taken out to kelp water flow. Jack Hogan and neighbor are to get verbal permission to allow the city: employees on the properties befind forested road to survey the drainage system. The survey will help the engineers design

and evaluate the whole drainage system for hopefull solution to the problems in the Homestead Rd. area. The future plan is to study and correct the drainage problem, do it once and do it right and complete. An on site meeting was planned for Over. 4 9:00 AM

. Pleasant Creek tarm Subdivision on site meeting 12-4-91 Ed Potempa, Richard Melmgren, 2 construction people , Jack Hogan , Back Hoeft. We viewed the whole drainage situation and agreed to excavate the deter befind Jack Hogans and the out the cattails and widen the channel. The north-south ditch through the corner from the outlet pipe will be cleaned out. this winter to help the situation in the spring. A few trees will be chapped out that we in the way of excavation this wenter. The survey and study glanned for this winter will determine what will be done in the future to felp the overall drainage problem and proceed with place # of the Pheasant Creek Subdivision. I do asked the contractor to contact me upon excavation of the detal clean out is to take place, he said he would Rick Hoeft



WINNEBAGO COUNTY - LAND and WATER CONSERVATION DEPARTMENT

500 EAST SUNNYVIEW ROAD OSHKOSH, WI 54901-9774 (414) 424-0044 or 727-2880

RECEUVED

May 15, 1991

To:

Jerry Bougie

Principal Planner

MAY 16 1991

WINNEBAGO COUNTY PLANNING DEPT.

From:

Pete Van Airsdale A.C.

County Conservationist

Subject: Drainage Plan for Pheasant Creek Farm - Phase I

I have reviewed the revised drainage plan submitted by Mike Siewert, Martenson & Eisele, Inc., for Pheasant Creek Farm, located in part of the W.1/2, N.E. 1/4, Sec. 29 T.18N.-R. 16E., in the City of Oshkosh. My comments are as follows:

- 1. The drainage plan for the first development phase of Pheasant Creek Farm indicates there should be no increase in the rate of surface water flow from the site after development (15 cfs peak flow), versus what it has been, under agricultural land use conditions (15 cfs peak flow). Based on the runoff calculations submitted, I agree with the analysis.
- 2. The storm sewer system for this section of the development is designed to carry only about 1/3 of the peak flow from the site. As a result, the plan shows that between 7,500 and 8,700 cu. ft. of surface water runoff will be detained in portions of the street abutting lots 3 thru 11. Additional detention is planned to occur in the side lot swales. This temporary detention should provide additional assurance that the rate of runoff will not be increased.
- 3. Recently you received a letter from Mr. Gary Galow and his neighbors who reside in the Homestead Drive area. The information provided describes flooding problems on Homestead Drive and concerns that the proposed Pheasant Creek development will add to the flooding.

While I do not believe this particular section of the proposed Pheasant Creek development will increase the rate of surface water flow into the Homestead Drive area, I believe the storm sewer may create a base flow condition leading to total saturation in the vicinity of the back lot lines of those lots that border 9th St. and Homestead Ave. (north side). This would contribute to expanded cattail growth and obstruction to surface water flow. At present, the drainage ditch, swale in the back lot line area north of Homestead Drive, lacks capacity to carry surface water runoff from the upstream drainage basin. Any amount of obstruction to flow in this area will only aggravate the situation.

4. After comparing 1964, 1971 and 1981 aerial photos, I believe that flooding in the vicinity of Homestead Drive has also been a direct result of changes in the surface drainage in the immediate area of Homestead Drive and the Gunning farm. It appears that surface drainage was re-routed from a more natural course of flow to one that better fit straight lines associated with both agricultural and urban

(Pheasant Creek Farm, pg.2)

type developments. It also appears that the re-routing work within the Homestead Drive area did not provide adequate capacity to carry the peak flow from the upstream drainage basin.

Recommendations

Construction site erosion control should be an important component of urban development projects. This plan identifies only three relatively small areas where stone rip-rap, fabric filter fencing, or straw bales are to be installed for erosion control. At a minimum, I would recommend that fabric filter fencing and/or straw bales be installed at the front and back of each lot, with particular emphasis on preventing sediment deposition in the streets and the existing drainage way bordered by lots 7, 8, 9, 10, 11, and 12.

If no other sources of information are available, the developer(s) may wish to refer to the Wisconsin Department of Natural Resources publication WISCONSIN CONSTRUCTION SITE BEST MANAGEMENT PRACTICE HANDBOOK for details on the installation and maintenance of various erosion control measures. All lot owners and applicable contractors should receive a detailed set of specifications for the installation and maintenance of the erosion control measures to be used.

With regards to ways to help alleviate the flooding problems discussed herein and still provide for development as proposed, I would recommend the following alternatives be considered. Please note that these recommendations go beyond the scope of this phase of the proposed Pheasant Creek Farm development, but the flooding problem is one that all development projects in the drainage basin will most likely contribute to in varying degrees.

- Deepen the previously described back lot line ditch or install a closed pipe to provide capacity to carry flow from the drainage basin down to Oakwood Road. A closed system (storm sewer), although by far the most expensive, would be the most effective solution. A provision for overland surface flow to accommodate shal ow runoff from the adjacent lots should also be provided with this method. In addition, the culvert flow capacity through Oakwood Road would need to be increased accordingly.
- 2) Modify the large draining ditch on the Pheasant Creek development property to prevent out-of-bank flow, particularly where the flow is now able to spill across to flood out Homestead Creek. This may require a combination of channel enlargement, channel relocation, and construction of a rip-rapped berm to prevent the flow from leaving the channel.
- 3) As an alternative to the above, circumvent the Homestead Drive development altogether by establishing an entirely different flow route and outlet for the upstream drainage basin. I don't know if this is a viable alternative in terms of available, undeveloped lands in the area but it is one worth investigating.

(Pheasant Creek Farm, pg.3)

- Assuming that future development storm sewer systems will not be designed to carry peak flows from 10 or 25 yr. storm events, effective, temporary detention can be planned for and identified throughout the drainage basin. It is possible that the existing peak flow from "undeveloped" conditions could be reduced enough from this type of detention to help reduce the extent and frequency of flooding downstream.
- Identify and establish large, natural detention basins throughout the drainage basin. Again, this would depend on the availability of lands, however, it would probably be the most practical, cost effective method of flood prevention to be implemented. This method is one that should be pursued in all drainage basins, large and small. It is being used extensively in other parts of the mid-west and east coast. In fact, many of these basins have been designed to form permanent pools that add to the aesthetics and value of the development projects. A local example of this is the permanent pool or "lake" in the Honey Creek subdivision, Town of Algoma.

cc Jeanette Diakoff Gary Galow Kick Hoeft Ed Potempa Mike Siewert



Martenson & Eisele, Inc.

Consulting Engineering and Land Surveying

RECEUVAD

APR 3 0 1991

Stanley C. Martenson, P.E. David D. Eisele, P.L.S.

John R. Davel, P.E.
James E. Smith, P.L.S.
Jeffrey W. Schultz, E.I.T.
David Kohtala, P.L.S.
Daniel W. Hoel, P.L.S.
Jeffrey T. Rustick, P.L.S.

WINNEBAGO COUNTY PLANNING DEPT

Ms. Jeannie Storm, Director, Plat Review Department of Agriculture, Trade and Consumer Protection P.O. Box 8911 Madison, Wi. 53708

April 29, 1991

Dear Jeannnie:

Winnebago County has requested an extension of time for them to complete their review. They would like the extension to be effective to the 29 th. of May. I hereby grant you an extension to complete the review of the final plats of Pheasant Creek Farm and Quail Run Farm in the City of Oshkosh as needed to meet the counties time table.

If you have any questions or need additional information please contact me.

Sincerely

Martenson & Eisele, Inc.

David. D. Eisele, PLS.

cc. Winnebago County V Public Works Dept. Oshkosh Mr. Richard Malmgaren Mr. Mike Zweiger May 6, 1991

Jerry Bougie Winnebago County Planner 415 Jackson Street Oshkosh WI 54901

Re: Pheasant Creek Plat

Dear Mr. Bougie:

It has come to our attention that a new addition to the City of Oshkosh known as Pheasant Creek Plat is clated to be approved in the near future. It has also been brought to our attention that the plat is to have storm sewers incorporated in it with the discharge to be somewhere in the vicinity of the west end of Homestead Drive.

This discharge of water is of great concern to us. In the past, we have had flooding problems on Homestead Drive. (See the enclosed photos showing past conditions.) It this plat is to be developed, there has to be further consideration given to the water runoff. I (Gary Galow) have been a resident of Homestead Drive for 25 years and have seen this problem only get worse since ditching was done on the Gunning farm some years back.

We fear this will become a bigger problem if these storm sewers are allowed to discharge anywhere in the vicinity of the west end of Homestead Drive. We, the undersigned residents of the affected vicinity, strongly urge that this development be denied until this problem is corrected.

cc: Jeanetta Diakoff, Chrmn., Town of Algoma Pete VanAirsdale, Winnebago Cty. Water Conservation Ed Potempa, City of Oshkosh Planning Jerry Conrad, City of Oshkosh Planning Don Pressley, City of Oshkosh Councilman

Page 2 Re: Pheasant Creet Plat

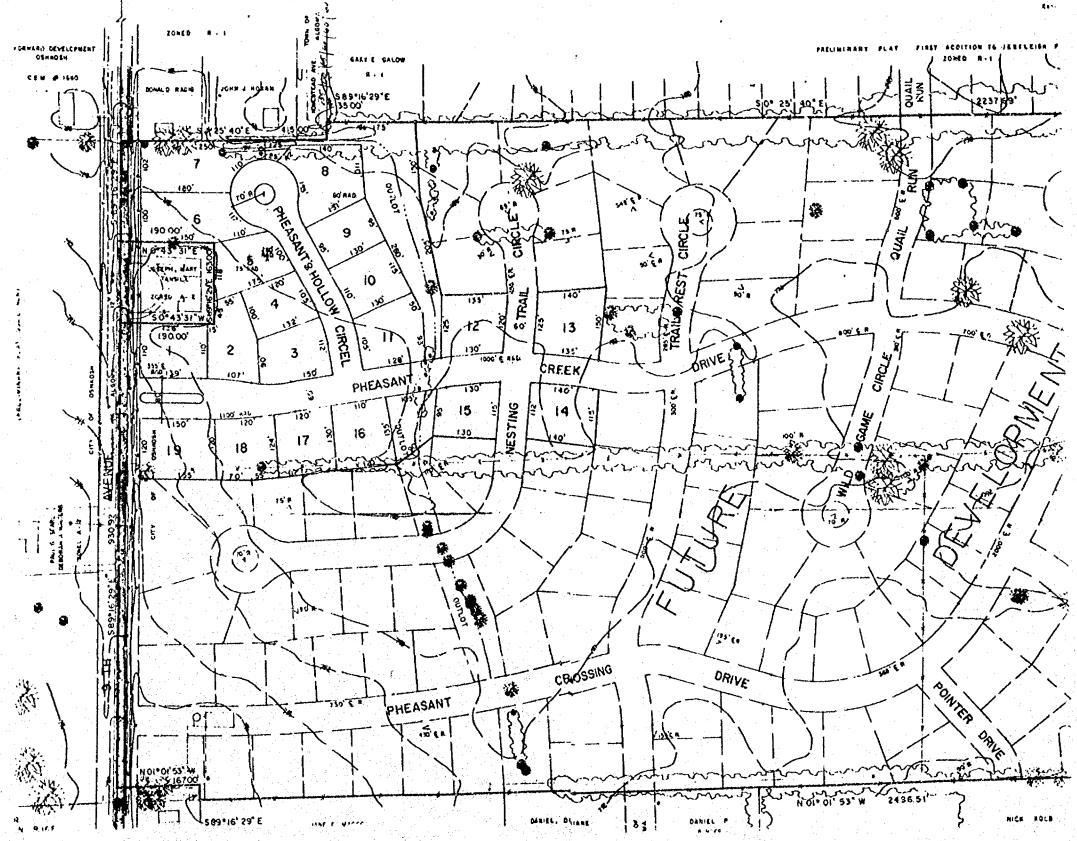
May 6, 1991

Signature	Address	Date
Suy Jalou	2943 HOMESTEAN DE OSH.	5/6/91
Sectal Salew	2843 HomesTERD DE, OSUKOSKI	5.6.81
Kay Gilson	2958 Homestead Dr Oshkosh	5-6-91
Piego V. Hilsony -	2958 Homester D. Dr. OshKosh	5-6-91
//was/sur	2976 Tomusland In alley	5/6/91
Sur Samitabi	2946 Homes tind Dr. Osklis	ch 5-6-91
John J. Augsen	2990 Honesterd Dr. Osphen	1 5-6-91
Loune Hagan		5-6-91
Lamina Pfaffernote	2891 Womestead Da	5-6-91
allie & Kurzynske	2878 Homestead Dr	5-6-91
Sheeling & Ludwig	2862 Homestian de	5-6-91
Donald Brote	2863 Homos Pord pr	5-6-9/
July Giots	2863 Honester On	5-6-91
Reparles le Milson	2849 Homestean Dr	3-6-91
Hoanne (y) ilven	2849 Homestead D.	5-6-91
Jan Wall	2835 House tool of	5-6-91
Bulafolall	2835 Homestead Dy	5-6-91
Scott Wille	2834 Homesteand Un.	5-6-91
Susan E. Nehpe	2834 Homestead Dr.	5-6-91
Charles of Hayes	961 S. Oahward Rd	5-6-91
La Coye	9615 Oakwood Gd.	5-6-92
Charle Me Hoyes	961 S Oakwood Pd	5-6-91
mai Belse	2850 Honey tend Dr.	5-6-9
Dais Backer	2850 Homesterly.	5-6-191
Kiehand W. Jon	2878 Homester DDn.	5-6-91
Kerneth W. Ludwin	2862 HOMESTERD DR.	5.7.91
Chan Wagner	2876 Homestead Dr.	\$-7-91
Darline C. Wiegman	2896 Homestiad Dr.	5-7-91

Re: Pheasant Creek Plat Page 3

May 6, 1991

Signature 1	Address	Date
Sand (Wighan	2896 Homastoad	5.7.9/
Order Felle	2912 Hornestead	5-7-91
Watt Fely	239/2, Y	
Questing 5	27/2 Houst DR	5-7-91
Ronold W. Schmercial	2923 Wad gr.	5.7-91
alene Schmedel	3923 W9th, ave	5-7-91
Jen neulausen	2865 W. 9th ave	5-7-91
Han neulauser meiton	2833 W. 9TH DUF	5/7/9
R. Marrie Trouve	8881 W. 9+ ST. 880	5/2/9
Barbara Krausey	2821 W. 9th St. R.R.	5/7/91
Donald Vadio	2985 w 9.06	5/7/91
lipe tradiq	2985 W.9th	5/7/91,
Space Rosley	2754 chiroille Pol	5/7/9/
Hioms D. Willia	2734 Clairville PR	5/7/9/
Jen Colo	607 Fieldcrest Dr	15/1/91
Helew M. Kamin	2818 Homestead Wr.	5/7/91
Don Paulus	2924 Homeslew	5/7/91
Edm Springstock	2905 Homeslead	5/7/91
Harold Springshok	2905 forme stead	5/7/8/
Sonding Gaggerrotte	2831 Amusters	5/1/9/
John & Wash	2940 Horestens Or	5/7/91
Bunda Hassler	2940 Homestead De	5/7/91
		Town the second
化二氯甲基磺胺 化双氯化氯化二甲基甲基酚 医乳腺病 化二氯甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基	したい あたい たれい したいはんけいさい かいとうこう ひょういきり こんだんだん そいい こうにほう 道田	





Residents on Homestead Drive, located west of Oshkosh, became owners of "lakefront property" as rain saturated

Water, water everywhere

their lawns on Sunday and flowed out of the ditches onto the road. As of 7 Monday • morning, Oshkosh's rainfall total for the

Northwestern photo by Carl Plotz

1987
month of September was 9.9 inches. This makes it the wettest September on record since 1938.















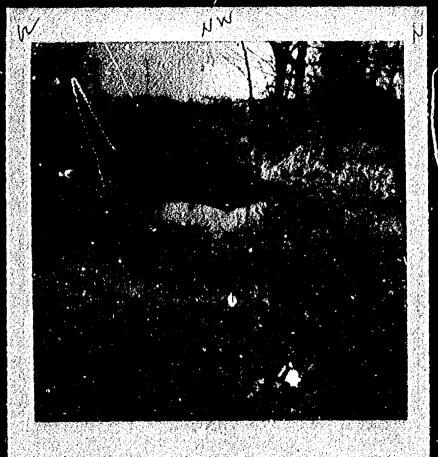




19/25/91 1:15PM 2" RAIN 10/24 PM - 10/25 AM

3W 10/25/91

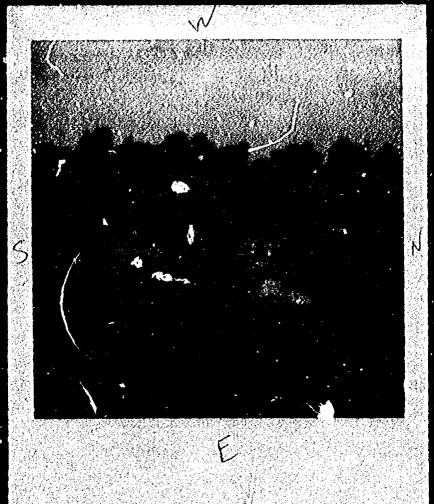
1725/9/ /155 PM



19/28/91 1115 PM 12" RAIN "NUT - 19-55 AM









Sept. 23, 1991] Drawage Jane - Plus earl Oreels Form *OshKosh verbelly agreed to reclient.

5 form sever pipe so it wore cliently
works water down drawege

Ditch on North side of How stead This should be a short term solution Oshkook also cogsed to bok af comprehensing livings of Solution Hus write Developer of Measant Creat Form her agreed to not develop compling more until city Hown/ Collety evaluates Drainage poin



OS (ROSII (10/0 236) 1840

FOX CITIES (181) 727-2880 FAX (111) 280-1709

NONOBJECTION AT

Winnebago County

Planning and Zoning Department

The Wave of the Future

May 29, 1991

Dept. of Ag. Trade & Consumer Protection c/o Jeanne A. Storm 801 W. Badger Rd. P.O. Box 8911 Madison, WI 53708

> Pheasant Creek Farm (Final Plat) City of Oshkosh

Dear Jeanne:

The Winnebago County Planning Department has finished cits review of the aboved-named final plat. Winnebago certifies this final plat as nonobjectionable. However, the developer should be alerted to the potential for future significant drainage/flooding problems in this Winnebago County.

Erosion control measures are recommended during grading and construction to alleviate potential erosion problems.

Please refer to the attached memo from the Winnebago County Land and Water Conservation Department, dated May 15, 1991, regarding drainage and erosion control measures to be implemented for this development.

Also, please refer to the attached preliminary plat transmittal letter dated February 18, 1991 regarding items 3,4, and 5. These are important items to be addressed for this development.

If you have any questions, please contact me. Thank you.

Sincerely,

Jerry L. Bougie County Planner

cc:

David Schmidt, Planning Director Dave Eisele, M & E Carol Owens, Planning & Zoning Chair Pete Van Airsdale, County LWCD Ed Potempa, C. of Oshkosh Public Works Gary Galow, Homestead Ave. resident

enclosure

OS IKOSH (441) 236-4840 FOX CITIES (441) 727-2880 FAX (441) 236-4799

NONOBJECTION APPLE

والخارث

ANNING

Winnebago County

Planning and Zoning Department

The Wave of the Future -

May 29, 1991

Dept. of Ag. Trade & Consumer Protection c/o Jeanne A. Storm 801 W. Badger Rd. P.O. Box 8911 Madison, WI 53708

Pheasant Creek Farm (Final Plat)

City of Oshkosh

Dear Jeanne:

The Winnebago County Planning Department has finished Cits review of the aboved-named final plat. Winnebago County certifies this final plat as nonobjectionable. However, the developer should be alerted to the potential for future significant drainage/flooding problems in this area Winnebago County.

Erosion control measures are recommended during grading and construction to alleviate potential erosion problems.

Please refer to the attached memo from the Winnebago County Land and Water Conservation Department, dated May 15, 1991, regarding drainage and erosion control measures implemented for this development.

Also, please refer to the attached preliminary plat transmittal letter dated February 18, 1991 regarding items 3,4, and 5. These are important items to be addressed for this development.

If you have any questions, please contact me. Thank you.

Sincerely,

Jerry L. Bougie

County Planner

cc: David Schmidt, Planning Director

Dave Eisele, M & E

Carol Owens, Planning & Zoning Chair

Pete Van Airsdale, County LWCD

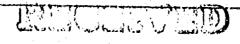
Ed Potempa, C. of Oshkosh Public Works Gary Galow, Homestead Ave. resident

enclosure



WINNEBAGO COUNTY - IAND and WATER CONSERVATION DEPARTMENT.

500 EAST SUNNYVIEW ROAD OSHKOSH, WI 54901-9774 (414) 424-0044 or 727-2880



May 15, 1991

To:

Jerry Bougie

Principal Planner

WINNEBAGO COUNTY PLANNING DEPT.

MAY 16 1991

From:

Pete Van Airsdale

County Conservationist

Subject: Drainage Plan for Pheasant Creek Farm - Phase I

I have reviewed the revised drainage plan submitted by Mike Siewert, Martenson & Eisele, Inc., for Pheasant Creek Farm, located in part of the W.1/2, N.E. 1/4, Sec. 29 T.18N.-R. 16E., in the City of Oshkosh. My comments are as follows:

- 1. The drainage plan for the first development phase of Pheasant Creek Farm indicates there should be no increase in the rate of surface water flow from the site after development (15 cfs peak flow), versus what it has been, under agricultural land use conditions (15 cfs peak flow). Based on the runoff calculations submitted, I agree with the analysis.
- The storm sewer system for this section of the development is designed to carry only about 1/3 of the peak flow from the site. As a result, the plan shows that between 7,500 and 8,700 cu. ft. of surface water runoff will be detained in portions of the street abutting lots 3 thru it. Additional detention is planned to occur in the side lot swales. This temporary detention should provide additional assurance that the rate of runoff will not be increased.
- Recently you received a letter from Mr. Gary Galow and his neighbors who reside in the Homestead Drive area. The information provided describes flooding problems on Homestead Drive and concerns that the proposed Pheasant Creek development will add to the flooding.

While I do not believe this particular section of the proposed Pheasant Creek development will increase the rate of surface water flow into the Homestead Drive area, I believe the storm sewer may create a base flow condition leading to total saturation in the vicinity of the back lot lines of these lots that border 9th St. and Homestead Ave. (north side). This would contribute to expanded cattail growth and obstruction to surface water flow. At present, the drainage ditch, swale in the back lot line area north of Homestead Drive, lacks capacity to carry surface water runoff from the upstream drainage basin. Any amount of obstruction to flow in this area will only aggravate the situation.

4. After comparing 1964, 1971 and 1981 aerial photos, I believe that flooding in the vicinity of Homestead Drive has also been a direct result of changes in the surface drainage in the immediate area of Homestead Drive and the Gunning farm. It appears that surface drainage was re-routed from a more natural course of flow to one that better fit straight lines associated with both agricultural and urban

(Pheasant Creek Farm, pg.2)
type developments. It also appears that the re-routing work within
the Homestead Drive area did not provide adequate capacity to carry
the peak flow from the upstream drainage basin.

Recommendations

Construction site erosion control should be an important component of urban development projects. This plan identifies only three relatively small areas where stone rip-rap, fabric filter fencing, or straw bales are to be installed for erosion control. At a minimum, I would recommend that fabric filter fencing and/or straw bales be installed at the front and back of each lot, with particular emphasis on preventing sediment deposition in the streets and the existing drainage way bordered by lots 7, 8, 9, 10, 11, and 12.

If no other sources of information are available, the developer(s) may wish to refer to the Wisconsin Department of Natural Resources publication WISCONSIN CONSTRUCTION SITE BEST MANAGEMENT PRACTICE HANDBOOK for details on the installation and maintenance of various erosion control measures. All lot owners and applicable contractors should receive a detailed set of specifications for the installation and maintenance of the erosion control measures to be used.

With regards to ways to help alleviate the flooding problems discussed herein and still provide for development as proposed, I would recommend the following alternatives be considered. Please note that these recommendations go beyond the scope of this phase of the proposed Pheasant Creek Farm development, but the flooding problem is one that all development projects in the drainage basin will most likely contribute to in varying degrees.

- Deepen the previously described back lot line ditch or install a closed pipe to provide capacity to carry flow from the drainage basin down to Oakwood Road. A closed system (storm sewer), although by far the most expensive, would be the most effective solution. A provision for overland surface flow to accommodate shallow runoff from the adjacent lots should also be provided with this method. In addition, the culvert flow capacity through Oakwood Road would need to be increased accordingly.
- 2) Modify the large drainage ditch on the Pheasant Creek development property to prevent out-of-bank flow, particularly where the flow is now able to spill across to flood out Homestead Creek. This may require a combination of channel enlargement, channel relocation, and construction of a rip-rapped berm to prevent the flow from leaving the channel.
- 3) As an alternative to the above, circumvent the Homestead Drive development altogether by establishing an entirely different flow route and outlet for the upstream drainage basin. I don't know if this is a viable alternative in terms of available, undeveloped lands in the area but it is one worth investigating.

(Pheasant Creek Farm, pg.3)

- Assuming that future development storm sewer systems will not be designed to carry peak flows from 10 or 25 yr. storm events, effective, temporary detention can be planned for and identified throughout the drainage basin. It is possible that the existing peak flow from "undeveloped" conditions could be reduced enough from this type of detention to help reduce the extent and frequency of flooding downstream.
- Identify and establish large, natural detention basins throughout the drainage basin. Again, this would depend on the availability of lands, however, it would probably be the most practical, cost effective method of flood prevention to be implemented. This method is one that should be pursued in all drainage basins, large and small. It is being used extensively in other parts of the mid-west and east coast. In fact, many of these basins have been designed to form permanent pools that add to the aesthetics and value of the development projects. A local example of this is the permanent pool or "lake" in the Honey Creek subdivision, Town of Algoma.

cc Jeanette Diakoff Gary Galow Rick Hoeft Ed Potempa Mike Siewert



Winnebago County Planning and Zoning Department

The Wave of the Enture

February 18, 1991

Jeanne Storm, DATACP Plat Review Unit 801 West Badger Road P.O. Box 8911 Madison, WI 53708-8911

Re: PHEASANT CREEK Preliminary Plat, City of Oshkoch

Dear Jeanna:

The Winnebago County Planning Department has reviewed the aboved-named preliminary plat. The County certifies this plat an nonobjectionable. However, before final plat approval the following items shall be addressed:

1. The following "Restriction for Public Benefit shall be placed on the final plat:

RESTRICTION FOR PUBLIC BENEFIT - WINNEBAGO COUNTY

Pursuant to section 18.38 of the Winnebago County Land Division Ordinance, upon final grading, the developer and/or owner shall comply with the surface water drainage plan as approved by the Winnebago County Land and Water Conservation and Planning and Zoning Departments.

- 2. The drainage plan, as required by section 18.56 Winnebago County Land Division Ordinance, shall be submitted simultaneously with the final plat or before final plat submittal.
- 3. Any easements required for drainage puposes shall be shown on the face of the final plat and recorded as a separate document against the respective lot(s).
- 4. Shoreland provisions, section 17.20 Winnebago County Zoning Ordinance, shall apply to this plat. Some lots are within 300 feet of the ordinary high water mark of Sawyer Creek. Question of navigability shall be addressed to the DNR. Decision of non-navigability shall be presented to the County and City of Oshkosh. (Note: see attachment.)
- 5. The City of Cankosh shall administer County shoreland requirements, per sections 59.97(7) 4 59.971(7), Wis. State.

If you have any questions please call or write, Thank you,

Jerry 2. Bougle
County Principal Planner

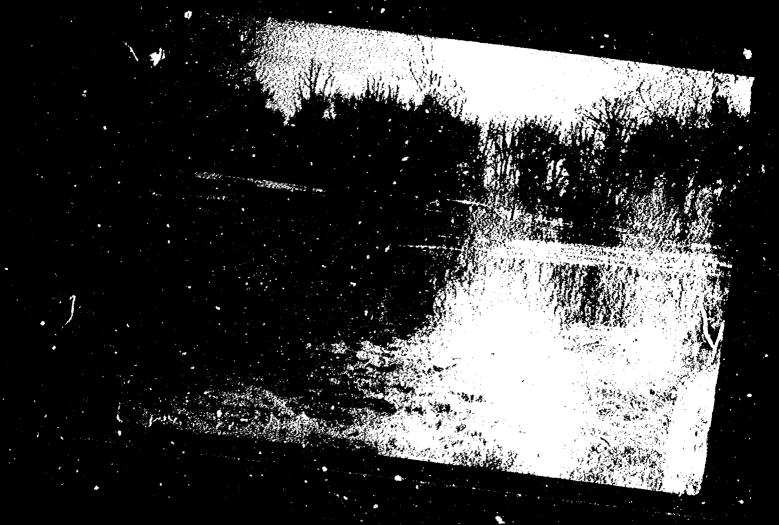
Car Dave Schmidt, County
Planning Director
Carol Owens, County P&Z
Chairperson
Dave Eisele, H & E

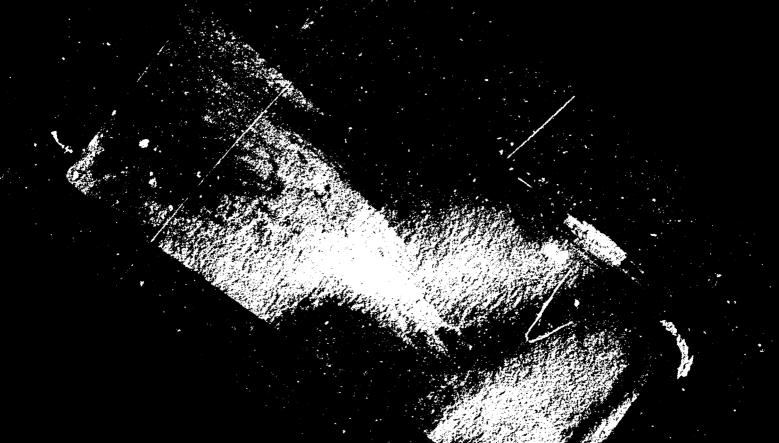
NUMORIEULIUNVBIE

Tebruary 18, 1991

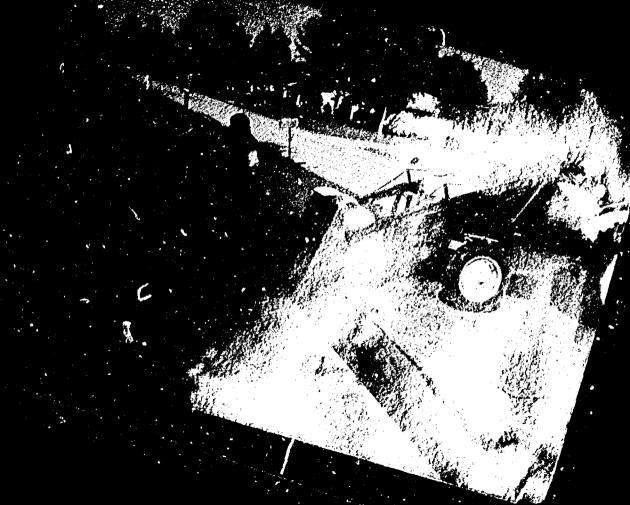














State of Wisconsin

Department of Agriculture, Trade & Consumer Protection

Alan T. Tracy Secretary

801 West Badger Road PO Box 8911 Madtson, WI 53708-8911

April 10, 1991

Mr. David Schmidt Winnebago County Planning & Zoning Committee Courthouse, Box 2808 Oshkosh WI 54903

PERMANENT FILE NO. 17619

Subject:

PHEASANT CREEK FARM

NE 1/4 S 29 T18N R16E

City of Oshkosh, Winnebago County

Dear Mr. Schmidt:

We have received the above- and plat. Your county planning agency has the authority to object to this under the provisions of s. 236.12 (2) (b), Wis. Stats. Enclosed are four cop for your review. Your agency must either object, or certify no objection within ys of your receipt of this submittal.

- If the plat is objected to, be notified by letter (the original drawing will be returned to the surveyor evisions).

- If the plat is certified as nonob; Conable, we must receive a print bearing your certification so that we may fine see our review (see s. 236.12 (6), Wis. Stats.),

It is important that this matter be expedited to avoid delays in processing the plat and to comply with the time limits set by statute. By the date shown below this office must either object to or certify the plat as nonobjectionable for all the objecting agencies involved, or, the subdivider can demand immediate certification of no objection.

Sincerely,

Heanne a. Atorn Jeanne A. Storm, Supervisor My man

Plat Review Unit

Phone (608) 266-3200

JAS:mas

Enc: Prints (4)

Clerk cc:

Surveyor

DEPARTMENT OF AGRICULTURE, TRADE & CONSUMER PROTECTION TIME LIMIT EXPIRES: 5/10/91



Winnebago County Planning and Zoning Department

The Mace of the Patiers

DATE: APRIL 15, 1991

TO: PETE VAN AIRSDALE, L&WCD

FROM: JERRY L. BOUGIE, PRINCIPAL PLANNER

728

RE: DRAINAGE PLANS FOR QUAIL RUN FARM AND

PHEASANT CREEK FARM SUBDIVISIONS

(CITY OF OSHKOSH)

This memo is to inform you that the County's review period for the above-named subdivisions ends on <u>Tuesday</u>. April 30, 1991, I would appreciate your review and recommendations on these drainage plans on or before this date.

If you have any questions, please contact me. Thank you.

cc: Dave Schmidt, John Davel - Martenson & Eisele, Carol Owens



Martenson & Eisele, Inc.

Consulting Engineering and Land Surveying

REGUERO

APR 12 1991

WINNEBAGG COUNTY PLANNING DEPT.

Stanley C. Martenson, P.E. David D. Eisele, P.L.S.

John R. Davel, P.E.
James E. Smith, P.L.S.
Jeffrey W. Schultz, E.I.T.
David Kohtala, P.L.S.
Daniel W. Hoel, P.L.S.
Jeffrey T. Rustick, P.L.S.

April 10, 1991

Mr. Jerry Bougie Director of Planning & Zoning Winnebago County P. O. Box 2808 Cshkosh, WI 54903~2808

Re: Drainage Plan for Pheasant Creek Farm, in the City of Oshkosh

Dear Mr. Bougie:

On behalf of Quail Run Farm - Pheasant Creek Farm Limited Partnership, I am submitting the drainage plan for the above mentioned project. The runoff analysis has previously been submitted.

Please review this information according to your normal procedures at your earliest convience.

If you need anymore information or have any questions, please contact me.

Very truly yours,

MARTENSON & EISELE, INC.

John R. Davel, P.E. Project Engineer

JRD/ns

cc Pete Van Air

Pete Van Airsdale, LWCD Quail Run Farm - Pheasant Creek Farm Limited Partnership

431-043



Martenson & Eisele, Inc.

- Municipal Engineering
- Construction Supervision
- Construction Inspection
- · Consulting Engineering
- · Land Planning
- Property Surveys
- · Topographical Surveys
- · Certified Soil Testing

Neenah, Wisconsin 54956 Telephone 414-731-0381 FAX 414-733-8578

LETTER OF TRANSMITTAL

Stanley C. Martenson, P.E. David D. Elsele, P.L.S. John R. Davel, P.E. James E. Smith, P.L.S. Jeffrey W. Schultz, E.I.T.

David Kohtala, P.J.S.

TO: Jerry Bousie Pete Van Airsdale

Winnebaso County

DATE: 4/10/91

RE: Quail Run Farm Pheasant Creek Farm City of Oshkosh

Copies Date Description Punoff Cales (25 yr) 4-10 11

١	ŀ	l	К	Ł	i	1	1	₹	A	1	¥	S	Ŋ	Ą	I	7	ľ	E	ľ)	.]	Н	E	₹	Е	٠Y	۷	1	Т	۱.	Н	:	
,	2	÷.:.		· 15,	4	10		٠,	٠	١,	٠.		· ·	٠,		1	7		. 7	. 2	, -	10	. ;	٠.	7		٠.	٠.	7.	. 9	़ार		

) For Your Information
() For Signature and Return
) For Review and Comment
) For Recording and/or Filing

() For Necessary Action) Per Your Request) Per Our Conversation) For Your Files

REMARKS:

previous calculations you received were a 10 yr Storm. The enclosed ove for the 25 yr Storm according to your regulations. The remaining data + maps you have still partain.

Project : Pheasant Creek Farms Date: 03-(4-71 User: MSS County : Winnebago State: Wi Checkeds Date Subtitle: Proposed Developed Condition Total watershed area: 0.330 sq mi Rainfall type: II | Frequency: 25 years A1(4.5. Area(sq mi) Q. 18* (2) 1 当当本 Rainfall(in) 4.5 4:5 32x Curve number - 83* Runoff (in) 2.64 2,73 To (hrs) 1.48* 1.38* (Used) 1.50 1.50 TimeToDutlet 0,00 $O_{\bullet}OO$ Tall 0.10 0:09. (Used) 0.10 0.10Total --- Subarea Contribution to Total flow (cfs) Time (hir) Flow Al A211.0 · 3 4 11.3 7 4 11.6 13 7 6 11.9 18 10 8 12.0 22 12 10 12.1 27 1.5 12 12.2 36 20 165 12.3 51 28 2.3 12.4 73 40 33 12.5 77 54 45 12.6 130 71 57 12.7 163 89. 74 12.8 191 104 87 13.0 226 123 103 13.2 2441 133F 1111 13.4 209 114 75 13.6 175 75 eo. 13.8 141 77 64 14.0 114 62 52 14.3 86 47 39 14.6 37 31 68 15.0 50 27 23 15.5 38 21 17 16.0 31 17 :4 16.5 26 1.4 1.2 22 12 17. O 10 17.5 20 11 : } 10 18.0 18 19.0 7 16 20.0 14 3 :5 22.0 11 Ø, O 26.0 O \bigcirc

value(s) provided from TR 55 system routines

F . Feals Fluw

Ų,

Project : Pheasant C County : Winnebago Subtitle: Proposed I		State	. Wi	User: MS Checked:	S Date: 03- Date:	
and the second section of the second						
Flow Type 2 year rain	(Ft)	くびせノヂサン	code	(Bq/ft)	(ft) (ft/sec)	(hir)
	300 1000	.004	d u	.013.785	3.14 Concentration =	0.918 0.272 0.288
						und halp with mid
Flow Type 2 year rain	Length	Slope	Surface	n Area		Time
Sheet 2.6 Shallow Concent d Open Channel		.004			60.1 Concentration =	The first of the contract of t
Open Channel	800	, 004			60.1 Travel flos =	
Sheet F A Smooth Surface B Fallow (No Res C Cultivated < 1 D Cultivated > 1 E Grass-Range, S	e a.) 20 % Res. 20 % Res.	F Gra G Gra H Woo	ss, Dense ss, Burm ds, Light ds, Dense		llow Concentral: Surface Codes P Paved U Unpaved	ad÷

^{* -} Generated for use by TABULAR method

Project: Pheasant Cree County: Winnebago Subtitle: Proposed Deve	State: V	di Cheeked:	MSS Date: 03-14-91 Date:
Name (n. 1861). 1864: Albania Maria (n. 1884).	roe New Marie	. 4.4 7.4	- 1985년 - 1985 - 1985년 - 1985
Flow Type 2 year Le	ngth Slope Suft/Ft)	urface n Area	Wp Velocity Time t) (ft) (ft/sec) (hr)
Sheet 2.6 3 Shallow Concent'd 1 Open Channel 2	00 .004 000 .004	d u .013.785	0.918 0.272 3.14 0.288 (Concentration = 1.48*
	ngth Slape Sc	urface n Area	Wp Velocity Time t) (ft) (ft/sec) (hr)
Sheet 2.6 3 Shallow Concent'd 1 Open Channel 9	500 .004	. 025 90	0.918 0.408 60.1 0.051 of Concentration = 1.36*
Open Channel C	.004	.02590	60.1 0.045 Travel Time = 0.05* ≈====
Sheet Flow A Smooth Surface B Fallow (No Res.) C Cultivated < 20 % D Cultivated > 20 % E Grass-Range, Shor	C Grass Res. H Woods Res. I Woods	, Dense 9 , Burmuda , Light	Shallow Concentrated Surface Codes P Paved U Unpaved

^{* -} Generated for use by TABULAR method

TR-55 CURVE NUMBER COMPUTENTION

VERGION 1.11

Project: Pheasant Creek Farms County: Winnebage Subtitle: Proposed Developed Co Subarea: A2				er: MSS	Date Date	2 03-14-91
COVER DEGURIFTION	e e de la companya d La companya de la co		Α		ic Soil (C s (CN)	Group D
CULTIVATED AGRICULTURAL LANDS Row crops SR + Crop residue	good	man ment make dara verya belasi serbel	and the state of t	2(75)	69,2(82)	23.2(85)
Total Area (by Hydrologic Soil	Group)				59.2	23.2
SUBARCA: A2 TOTAL DRAINAGE	AREA:	94.4 Ac	The Control of the Co	NEXGITE	D) CURVE	NUMBER:83

TR-55 CURVE NUMBER COMPUTATION

YERSION 1.11

Project: Pheasant Creek Farms County: Winnebago State: Wi Subtitle: Proposed Developed Condition Subarea: Al	User: Checked:			03-10-91
COVER DESCRIPTION	ΑHy	drologic B Acres (C	Fraup D
FULLY DEVELOPED URBAN AREAS (Veg Estab.) Residential districts Avg % imperv (by average lot size) 1/3 acre 30		69.	2(81)	10.2(86)
CULTIVATED AGRICULTURAL LANDS Row crops SR + Crop residue good		24.	7 (82)	13(85)
Total Area (by Hydrologic Soil Group)		93.		23. Z 17 107 (12 cm)
SUBAREA: A1 TOTAL DRAINAGE AREA: 117.1	Acres W	EÍGHTED C	URVE	NUMBER: 82

Count	y . Wil	easant Cre nnebago isting Con		Sta	ke: Wi	Chi	User: ecked:	YSS Dat Dat	e: 03-14-91 e:
Total	watersl	ned area;	0. 330 sn	ı mi	Rainfal	l type	e: II	Frequency	25 years
Rainf Curve Runof Tc (h TimeT Ia/P	sq mi) all(in) number f(in) rs) (Used) cOutlet	Total 0.33* 4.5 83* 2.73 1.34 1.25 0.00 0.09							
Time (hr)	Total Flow		Subar	ea (Contribut	ion t	o Total	Flow (cfs)	
11.0 11.3 11.6 11.7 12.0 12.1 12.2 12.3	9 12 16 23 26 34 49 73 106 147 192	9 12 16 23 26 34 49 73 106 147 192							
12.7 12.8 13.0 13.2 13.4	231 256 280P 240 191	231 256 280P 240 191							
13.6 13.8 14.0 14.3 14.6 15.0 15.5 16.0	147 116 74 70 55 42 33 28	147 116 94 70 35 42 33 28							

TR-55 To and TE THRU SUBARDA COMPUTATION

VERSION 1.11

Project: Pheasant Creek Farms User: MSS Date: 03-14-71 Checkest County: Winnebago State: Wi Date Subtitle: Existing Condition Fig. 1. Total - Total rain

Flow Type 2 year Length Slope Surface n Area Wp Velocity Time (ft) (ft/ft) code (sq/ft) (ft) (ft/sec) (fm) mendaj krodis samuna sapiski dapumi derdan samuni majder jungaji der pilitikan jalah pasah makaji mendal bekan 2.6 300 .004 d 0.918 Shallow Concent d 1000 . 004 0.272 Open Channel 3000 . 004 .02570.7 60.1 0,168 Time of Concentration = 1.36

--- Sheet Flow Surface Codes ---

A Smooth Surface F Grass, Dense B Fallow (No Res.) G Grass, Burmuda

C Cultivated < 20 % Res. H Woods, Light D Cultivated > 20 % Res. I Woods, Dense E Grass-Range, Short

6 Grass, Burmuda --- Surface Codes

--- Shallow Concentrated

P Paved

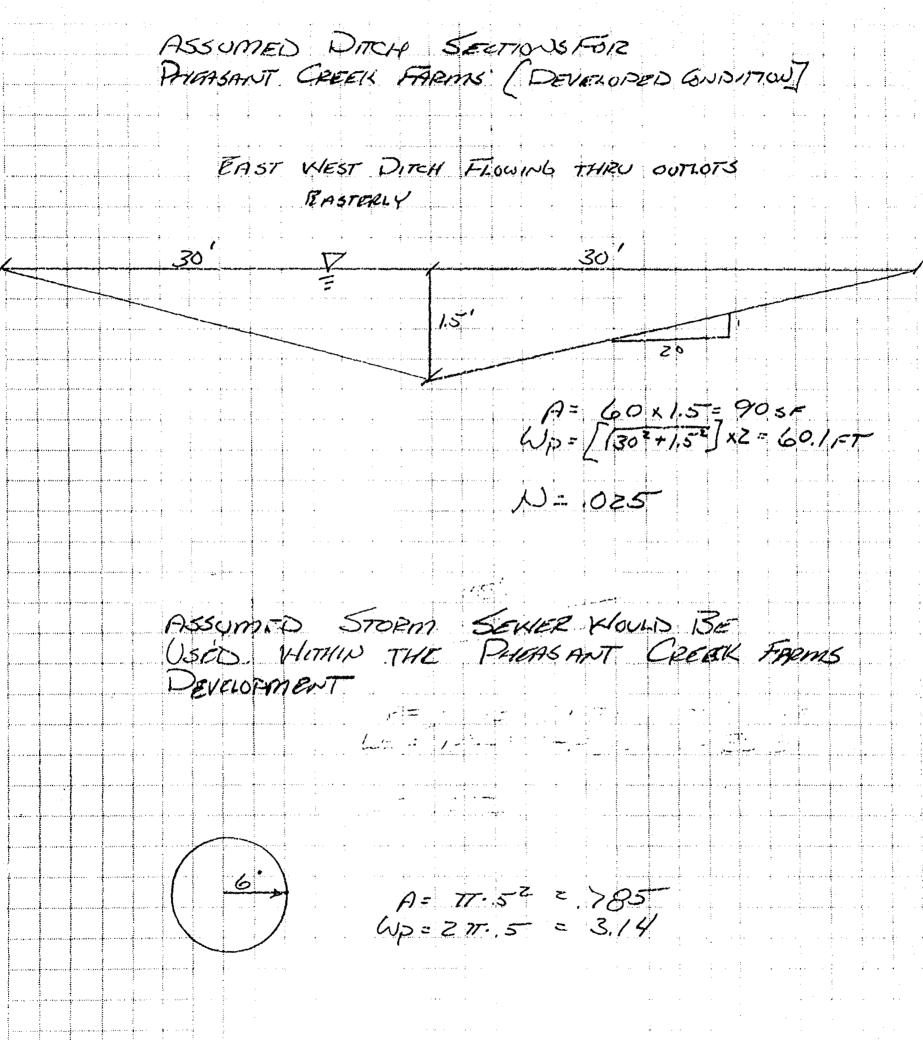
U Unpaved

TR-55 CURVE NUMBER COMPUTATION

VERSION 1.11

Project: Cheasant Creek Farms County: Winnebago Subtitle: Existing Condition Subarea: Total	State: Wi	User: Checked:	MSS	Date: Date:	03-14-91
COVER DESCRIPTION		А А		E Soil E C (CN)	r oup
CULTIVATED AGRICULTURAL LANDS Row crops SR + Crop residue	good		2 (75)	169 (82)	40.5(85)
Total Area (by Hydrologic Soil	Graup)	and that the	2		40.5
SUBAREA: Total TOTAL DRAINAGE	AREA: 211.5 AC	1@8	EIGHTED	CURVE N	Uliber: 83

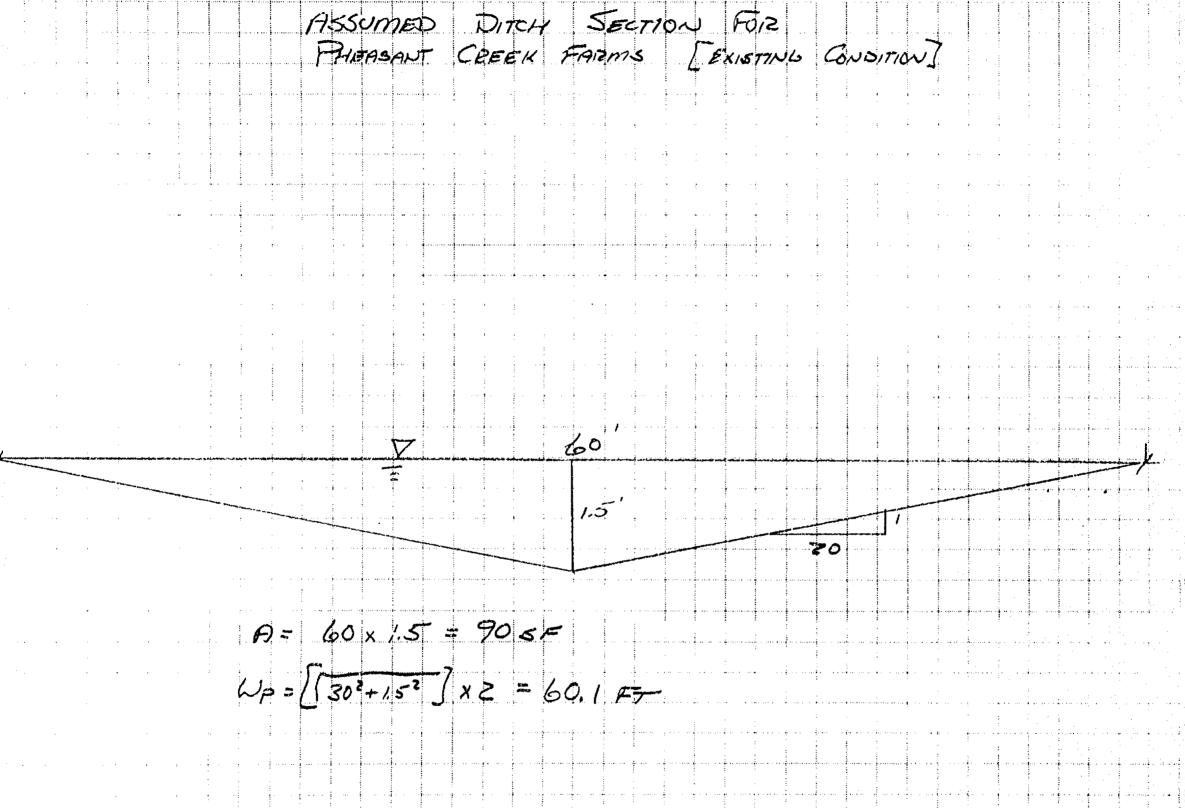




	ASSUMED DITCH	SECTION FOIZ	
	PHEASANT CREEK	SECTION FOIZ FARMS [EXISTING	CONDITION
	ijimutu pare an ja cana an ja can		
		The second secon	
			en de la composición de la composición La composición de la
	∇	60	
		1.5'	
			20
· · · · · · · · · · · · · · · · · · ·			
<i>A</i> ≃	60 x 1.5 = 90 5F		
	$\int 30^2 + 15^2 \int XZ = 6$		monomenta muon pommo (para monomenta de la manda d

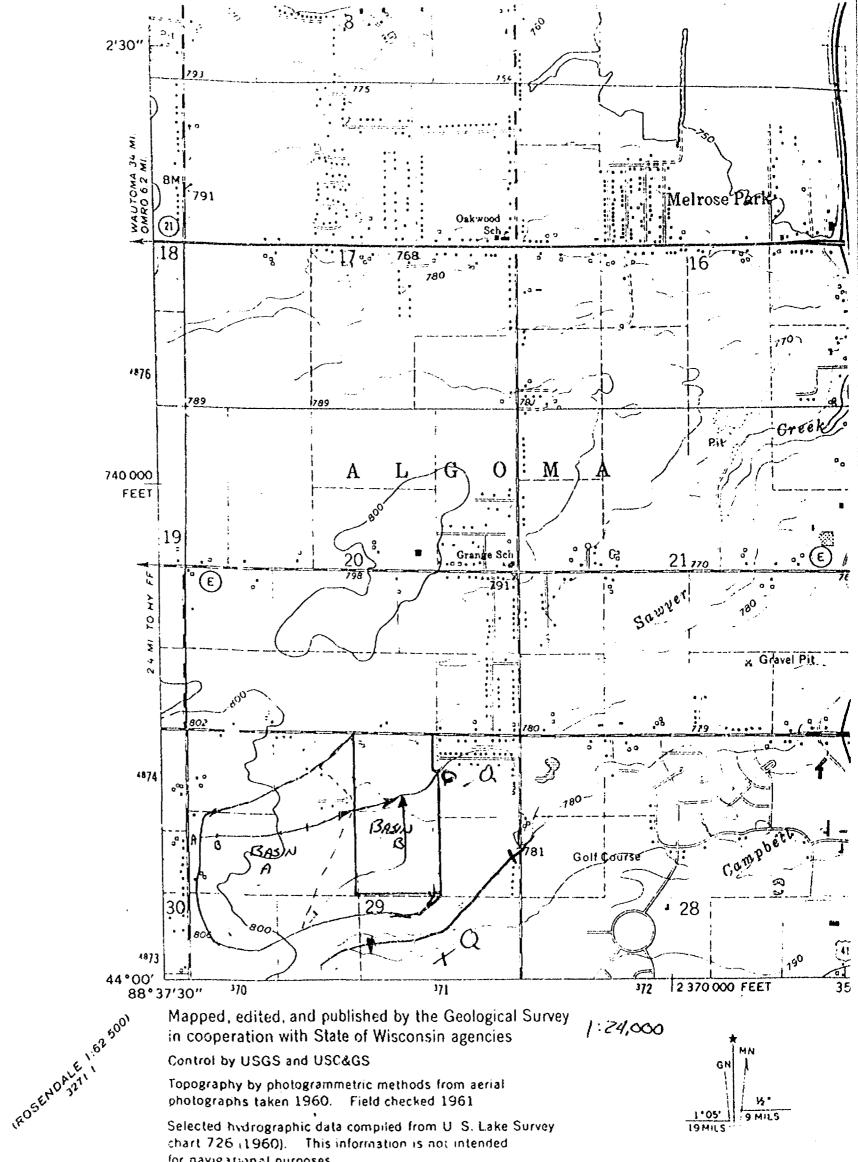


Consulting Engineering & Lind Surveying
1919 American Court
Neeman, Wisconsin 54955
Telephone 414-731-0381





J Martenson & Eisele, I.
Consulting Engineering & Land Surveyin
1919 American Court
Namet, Wincomin 54055



in cooperation with State of Wisconsin agencies

Control by USGS and USC&GS

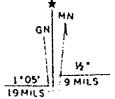
Topography by photogrammetric methods from aerial photographs taken 1960. Field checked 1961

Selected hydrographic data compiled from U.S. Lake Survey chart 726 (1960). This information is not intended for navigational purposes

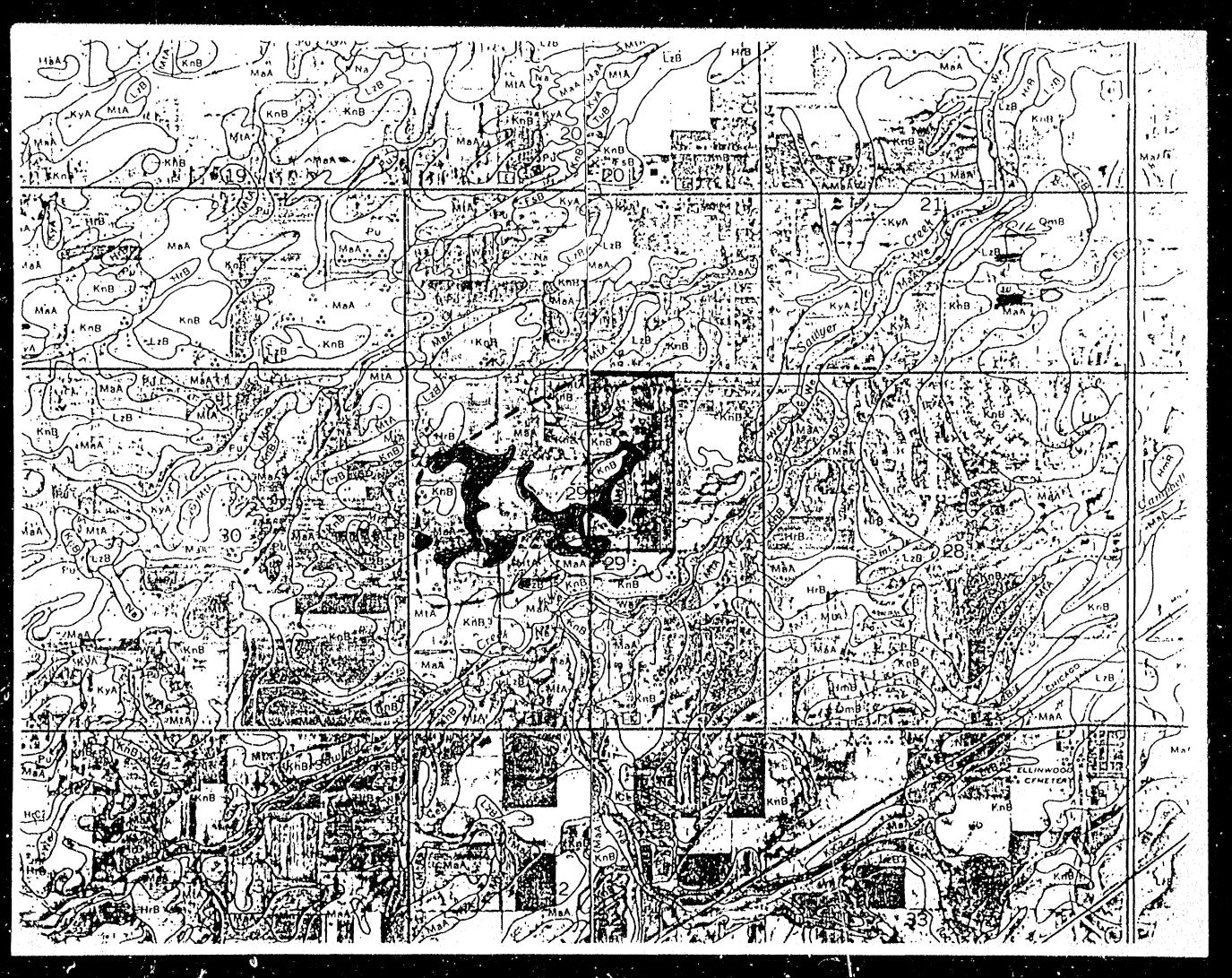
Polyconic projection. 1927 North American datum 10,000 fast grid based on Wisconsin coordinate system, south zone 1000-matta Universal Transverse Mercator grid ticks. zone 16. shown in blue

no cates areas in which only landmark building, are snown

Fine red tached lines indicate selected fence and field lines where ticle on aeria photographs. This information is unchecked



OTM ORID AND 1975 MAGNETIC NORTH DECLINATION AT CENTER OF THEE!





Martenson & Eisele, Inc. Consulting Engineering & Land Surveying

1919 American Court Neenah, Wisconsin 54956 Telephone 414-731-0381

SOIL TYPES PHEASAM	WITHIN DEN	GRAS		
. 4	= MosEL		, 0-3%	= C
KnB	= KENAUNA	EE SILT LOAN	7 2-690	
MaA	= MANAVIA	SILTY CLAY	LOAM O'S	12 C

Pu = FOYBAN SILTY CLAY HOAM 0% D Na = NAVAN SILT LOAM 0% D

LZB = LORENZO VARITAN LOAM 2 7082 E



Martenson & Eisele, Inc. Consulting Engineering & Land Surveying

1919 American Court Necnah, Wisconsin 54956 Telephone 414-731 0381

BASIN AREAS

						75/人	<u>ر</u>			F-/C)					:		į		:		
karra di Serrepen	P,	= .7	OTA	L. F	AREI	A 01	F	BA	5//	راند الانت	1		-	1	19	212	3 ₁	9C,	e,s	S.,		
• • • • • • • • • • • • • • • • • • •	À		OTAL				1 1	السلا					-		_	4		١.				,
***************************************		_	REL O	•		A 1,	ju .	1		1	1		1							ِ ر		
	ند :		PEA O PEA					1 1		4	1	:				24 21					<u>.</u> .	
	•		REA		- Michael			7 6	i :	1	11181		*			14						•
J	~~~	_	CA OF		,					,	ح"ه ر					9						
	AB	= A	REA	01-77	PE	3 5	DILS:	12	, Ç	gas.	₩	<u>' </u>	=		0	.0	14C	re	ک			
	Oerca	A6"	TYPE O	·					3 ~		نيد	$\boldsymbol{\varrho}$, -	Q.				-		כ כ		nel.
	. 1		747				_	: :	,			7 / (0	76					//	درع		PES
			OF=	_	1			1	:		•	- A	5		-			2	13	0	AC	265
	AREA	OF	TY126	C 8	2011.5	<i>/</i> //	Bas	<i>ا</i> س	"/ .(311	<i>-</i>											
	CUTS ARKA	IPE	7512-1	De	vaco	PME	דייעד ובי		. ** -	/	[] []	- //	,23 1	164	5	- 13	.વડ્ડ		24 19	/23	ACE	≥ E S
	rijepri	or		ب د	- 3 0/C	\$ //~	LSA	• 5/	ے ''د	,	PY,	2	/7>	H	<i>چا</i>		- [6/	. / . /	HC	RES
			4																			
		· · · · · · · · · · · · · · · · · · ·															. بہ ا		·			}
																		1				1
							*															
		· · · · · · · · · · · · · · · · · · ·	32							/			>									
											}								<i>(</i>			
			BASI	/~) -	2		· •		/			··· ·· · · · · · · · · · · · · · · · ·			,						<u>.</u> .	
								1		BA:	5 /	, e# /										
						A		1		417				}							· · ·	
			. ,		·			1			·					[
					4 1			<u> </u>		1	. مُنِين											
							, /				:		. i .			ļ ;					. :	
				;	1		//									:						
							//				-			:	4					,		

Table 2-2h.-Runoff curve numbers for cultivated agricultural lands¹

	Cover description	·	Curve numbers for hydrologic soil group—							
Cover type	Treatment ²	Hydrologic condition ³	A	В	С	D				
Fallow	Bare soil	***	77	86	91	94				
	Crop residue cover (CR)	Poor Good	76 74	85 83	90 88	93 90				
Row crops	Straight row (SR)	Poor Goud	72 67	81 78	88 85 >	91 89				
	SR + CR	Poor Good	· 71 64	80 75	87	90 (85)				
	Contoured (C)	Poor Good	70 65	79 73	84 82	88 86				
	C + CR	Poor Good	69 64	78 74	83 81	87 85				
	Contoured & terraced (C&T)	Poor Good	66 62	74 71	80 78	82 81				
	C&T + CR	Poor Good	65 61	73 70	79 77	81 80				
Small grain	SR	Poor Good	65 63	76 75	84 (83	88 87				
	SR + CR	Poor Good	64 60	75 72	(83 83 80	86 84				
	С	Poor Good	63 61	74 73	82 81	85 84				
	C + CR	Poor Good	62 69	73 72	81 80	84 83				
	C&T	Pour Good	61 59	72 70	79 78	82 81				
	C&T ← CR	Pour Good	60 58	71 69	78 77	81 80				
Close-seeded or broadcast	SR	· Poor Good	66 58	77 72	85 81	89 85				
legumes or rotation	C	Poor Good	64 55	75 69	83 78	85 83				
meadow	C&T	Poor Good	63 51	73 67	80 76	83 80				

Average runoff condition, and $I_a=0.28$.

*Compression concerapplies only if residue is on at least 5% of the surface throughout the year.

*Hydrologic condition is based on combination of factors that affect infiltration and runoff, including (a) density and canopy of vegetative areas, (b) amount of year-mund cover, (c) amount of grass or close-seeded legumes in rotations, (d) percent of residue cover on the land surface (good ≥ 20%), and (e) degree of surface roughness.

Poor: Factors impair infiltration and tend to increase ramoff.

Good: Factors encourage average and better than average infiltration and tend to decrease runoff.

Table 2-2a.-Runoff curve numbers for urban areas!

Cover description		Curve numbers for hydrologic soil group—			
Cover type and hydrologic condition	Average percent impervious area ²	A	В	С	D
Fully developed urban areas (vegetation established)					
Open space (lawns, parks, golf courses, cemeteries, etc.)3:					
Poor condition (grass cover < 50%)		68	79	86	89
Fair condition (grass cover 50% to 75%)		49	69	79	84
Good condition (grass cover > 75%)		39	61	74	80
mpervious areas:					
Paved parking lots, roofs, driveways, etc.					
(excluding right-of-way).		98	98	98	98
Streets and roads:		-			
Paved; curbs and storm sewers (excluding					
right-of-way)		98	98	98	98
Paved; open ditches (including right-of-way)		23	89	92	93
Gravel (including right-of-way)		76	85	199	91
Dirt (including right-of-way)		72	82	87	89
Western desert urban areas:					
Natural desert landscaping (pervious areas only)		63	77	85	88
Artificial desert landscaping (impervious weed					
barrier, desert shrub with 1. to 2 inch sand			•		
or gravel mulch and basin borders)		96	96	96	96
Urban districts:					
Commercial and business	85	89	92	94 -	95
Industrial	72	81	88	91	93
Residential districts by average lot size:					
1/8 acre or less (town houses)	65	77	85	90	92
1/4 acre		61	70.	83	87
-4/3 acre	• -	57	· 72	$\binom{81}{}$	(86)
1/2 acre	25	54	70	80	85
l acre	20	51	68	79	34
2 acres	12	46	65	77	82
Developing urhan areas					
Newly graded areas (pervious areas only,					
no vegetation) ⁵		777	oc	01	0.4
dle lands (CN's are determined using cover types		77	86	91	94
similar to those in table 2-2c).					

^{&#}x27;Average runoff condition, and In # 0.25.

Average runoff condition, and $I_n = 0.2S$.

The average percent impervious area shown was used to develop the composite CN's. Other assumptions are as follows: impervious areas are directly connected to the drainage system, impervious areas have a CN of 98, and pervious areas are considered equivalent to open space in good hydrologic condition. CN's for other combinations of conditions may be computed using figure 23 or 24.

3CN's shown are equivalent to those of pasture. Composite CN's may be computed for other combinations of open space cover type.

4Composite CN's for natural desert landscaping should be computed using figures 23 or 24 based on the impervious area percentage (CN = 98) and the pervious area CN. The pervious area CN's are assumed equivalent to desert shrub in poor hydrologic condition.

5Composite CN's to use for the design of temporary measures during grading and construction should be computed using figure 23 or 24, based on the degree of development (impervious area percentage) and the CN's for the newly graded pervious areas.

URBAN AREAS - DEVELOPMENT UNDER WAY, NO VEGETATION ESTABLISHED

Description	Hydr A	ologic B	Soil C	
Newly Graded Area	81	89	93	95
Row Houses, Town Houses, and Residential with Lot Sizes 1/8 Acre or Less	93	96	97	98
Residential		,		
J * sizes of 1/4 acre	88	93	95	97
Lot sizes of 1/2 acre	85	91	94	96
Lot sizes of 1 acre	82	90	93	95
Lot sizes of 2 acres	81	39	92	94

TABLE #2 Mannings Coefficients (n)

Surface	Best	Good	Fair	Bad
Vitrified sewer pipe	(0.010 }	0.013*	0.015	0.017
Common-clay drainage tile	0.011	0.012	0.014	0.017
Glazed brickwork	0.011		0.015	0.013
Brick in coment mortar; brick sewers	0.012		0.012	0.013
Coment mortar surfaces			0.013	0.015
Concrete pipe			0.015*	0.016
Wood-stave pipe		0.011	0.012	5.013
Plank flumes:	0.010	0.020		0.014
Planed	0.010	0.012*	0.013	0.014
Unplaned		0.013*	0.014	0.015
With battens	0.012	0.015*	910.0	
Concrete-lined channels	0.012	0.014	0.016	0.018
Cement-rubble surface	0.017	0.020	0.025	0.030
Dry-rubble surface	0.025	0.030	0.033	0.035
Dressed-ashlar surface	0.013	0.014	0.015	0.017
Semicircular metal flumes, smooth	0.011	0.012	0.013	0.015
corrugated	0.0225	0.025	0.0275	0.030
Canals and ditches:				0 005
Earth, straight and uniform	0.017	0.020	0.0225	
Rock cuts, smooth and uniform	0.025	0.030	0.033*	0.035
jagged and irregular	0.035	0.040	0.045	0.030
Winding sluggish canals	0.025	0.025	10.0275	0.033
Dredged carth channels	0.025	0.0215	0.030	0.000
Canals with rough stony beds, weeds on earth	0.025	0.030	0.035	0.040
banks Earth bottom, rubble sides	6.028	0.030	0.033	0.035
Natural stream channels:	0.020	0.000	0.030	0.000
1. Clean, straight bank, full stage, no rifts or				1
deep pools	0.025	0.9275	0.030	0.033
2. Same as 1, but some weeds and stones		0.033	0.035	0.010
3. Winding, some pools and shoals, clean	0.033	0.035	0.040	0.045
4. Same as 3, lower stages, more ineffective	,			
slope and sections	0 010	0.045	0.050	0 055
5. Same as 3, some weeds and stones		0.040	0.045	0 050
6. Same as 4, stony sections		0.050	0.055	; 0 0 X
7. Sluggish river reaches, rather weedy or with	•	•		
very deep pools.	0.050	0.000	0.070	0 00
8. Very weedy reaches	0.075	.O 100 ··	0.125	0 150

^{*} Valle a con a may agree in a



WINNEBAGO COUNTY - LAND and WATER CONSERVATION DEPARTMENT

500 EAST SUNNYVIEW ROAD OSHKOSH, WI 54901-9774 (414) 424-0044 or 727-2880

RESERVED

May 15, 1991

MAY 16 1991

To:

Jerry Bougie

Principal Planner

WINNEBAGO COUNTY PLANNING DEPT.

From:

Pete Van Airsdale J. M. O

County Conservationist

Subject: Drainage Plan for Pheasant Creek Farm - Phase I

I have reviewed the revised drainage plan submitted by Mike Siewert, Martenson & Eisele, Inc., for Pheasant Creek Farm, located in part of the W.1/2, N.E. 1/4, Sec. 29 T.18N.-R. 16E., in the City of Oshkosh. My comments are as follows:

- 1. The drainage plan for the first development phase of Pheasant Creek Farm indicates there should be no increase in the rate of surface water flow from the site after development (15 cfs peak flow), versus what it has been, under agricultural land use conditions (15 cfs peak flow). Based on the runoff calculations submitted, I agree with the analysis.
- 2. The storm sewer system for this section of the development is designed to carry only about 1/3 of the peak flow from the site. As a result, the plan shows that between 7,500 and 8,700 cu. ft. of surface water runoff will be detained in portions of the street abutting lots 3 thru 11. Additional detention is planned to occur in the side lot swales. This temporary detention should provide additional assurance that the rate of runoff will not be increased.
- 3. Recently you received a letter from Mr. Gary Galow and his neighbors who reside in the Homestead Drive area. The information provided describes flooding problems on Homestead Drive and concerns that the proposed Pheasant Creek development will add to the flooding.

While I do not believe this particular section of the proposed Pheasant Creek development will increase the rate of surface water flow into the Homestead Drive area, I believe the storm sewer may create a base flow condition leading to total saturation in the vicinity of the back lot lines of those lots that border 9th St. and Homestead Ave. (north side). This would contribute to expanded cattail growth and obstruction to surface water flow. At present, the drainage ditch, swale in the back lot line area north of Homestead Drive, lacks capacity to carry surface water runoff from the upstream drainage basin. Any amount of obstruction to flow in this area will only aggravate the situation.

4. After comparing 1964, 1971 and 1981 aerial photos, I believe that flooding in the vicinity of Homestead Drive has also been a direct result of changes in the surface drainage in the immediate area of Homestead Drive and the Gunning farm. It appears that surface drainage was re-routed from a more natural course of flow to one that better fit straight lines associated with both agricultural and urban

(Pheasant Creek Farm, pg.2)

type developments. It also appears that the re-routing work within the Homestead Drive area did not provide adequate capacity to carry the peak flow from the upstream drainage basin.

Recommendations

Construction site erosion control should be an important component of urban development projects. This plan identifies only three relatively small areas where stone rip-rap, fabric filter fencing, or straw bales are to be installed for erosion control. At a minimum, I would recommend that fabric filter fencing and/or straw bales be installed at the front and back of each lot, with particular emphasis on preventing sediment deposition in the streets and the existing drainage way bordered by lots 7, 8, 9, 10, 11, and 12.

If no other sources of information are available, the developer(s) may wish to refer to the Wisconsin Department of Natural Resources publication WISCONSIN CONSTRUCTION SITE BEST MANAGEMENT PRACTICE HANDBOOK for details on the installation and maintenance of various erosion control measures. All lot owners and applicable contractors should receive a detailed set of specifications for the installation and maintenance of the erosion control measures to be used.

With regards to ways to help alleviate the flooding problems discussed herein and still provide for development as proposed, I would recommend the following alternatives be considered. Please note that these recommendations go beyond the scope of this phase of the proposed Pheasant Creek Farm development, but the flooding problem is one that all development projects in the drainage basin will most likely contribute to in varying degrees.

- 1) Deepen the previously described back lot line ditch or install a closed pipe to provide capacity to carry flow from the drainage basin down to Oakwood Road. A closed system (storm sewer), although by far the most expensive, would be the most effective solution. A provision for overland surface flow to accommodate shallow runoff from the adjacent lots should also be provided with this method. In addition, the culvert flow capacity through Oakwood Road would need to be increased accordingly.
- 2) Modify the large drainage ditch on the Pheasant Creek development property to prevent out-of-bank flow, particularly where the flow is now able to spill across to flood out Homestead Creek. This may require a combination of channel enlargement, channel relocation, and construction of a rip-rapped berm to prevent the flow from leaving the channel.
- 3) As an alternative to the above, circumvent the Homestead Drive development altogether by establishing an entirely different flow route and outlet for the upstream drainage basin. I don't know if this is a viable alternative in terms of available, undeveloped lands in the area but it is one worth investigating.

(Pheasant Creek Farm, pg.3)

- Assuming that future development storm sewer systems will not be designed to carry peak flows from 10 or 25 yr. storm events, effective, temporary detention can be planned for and identified throughout the drainage basin. It is possible that the existing peak flow from "undeveloped" conditions could be reduced enough from this type of detention to help reduce the extent and frequency of flooding downstream.
- Identify and establish large, natural detention basins throughout the drainage basin. Again, this would depend on the availability of lands, however, it would probably be the most practical, cost effective method of flood prevention to be implemented. This method is one that should be pursued in all drainage basins, large and small. It is being used extensively in other parts of the mid-west and east coast. In fact, many of these basins have been designed to form permanent pools that add to the aesthetics and value of the development projects. A local example of this is the permanent pool or "lake" in the Honey Creek subdivision, Town of Algoma.

#

cc Jeanette Diakoff Gary Galow Rick Hoeft Ed Potempa Mike Siewert



Winnebago County Planning and Zoning Department

The Wave of the Future

February 18, 1991

Jeanne Storm, DAT&CP Plat Review Unit 801 West Badger Road P.O. Box 8911 Madison, WI 53708-8911

Re: PHEASANT CREEK Preliminary Plat, City of Oshkosh

Dear Jeanne:

The Winnebago County Planning Department has reviewed the aboved-named preliminary plat. The County certifies this plat as nonobjectionable. However, before final plat approval the following items shall be addressed:

1. The following "Restriction for Public Benefit shall be placed on the final plat:

RESTRICTION FOR PUBLIC BENEFIT - WINNEBAGO COUNTY

Pursuant to section 18.58 of the Winnebago County Land Division Ordinance, upon final grading, the developer and/or owner shall comply with the surface water drainage plan as approved by the Winnebago County Land and Water Conservation and Planning and Zoning Departments.

- The drainage plan, as required by section 18.58 Winnebago County Land Division Ordinance, shall be submitted simultaneously with the final plat or before final plat submittal.
- Any essements required for drainage puposes shall be shown on the face of the final plat and recorded as a separate document against the respective lot(s).
- 4. Shoreland provisions, section 17.20 Winnebago County Zoning Ordinanca, shall apply to this plat. Some lots are within 300 feet of the ordinary high water mark of Sawyer Creek, Question of navigability shall be addressed to the DNR. Decision of non-navigability shall be presented to the County and City of Oshkosh. (Note: see attachment.)
- 5. The City of Oshkosh shall administer County shoreland requirements, per sections 59.97(7) & 59.971(7), Wis. State.

If you have any questions please call or write. Thank you.

Jerry L. Bougie County Principal Planner

co: Dave Schmidt, County
Planning Director
Carol Owens, County P&Z
Chairperson
Dave Eisele, M & E

NONOFIECTIONABLE

MONOFIECTIONABLE

MONOFIECTION

