SECTION 404
PERMIT APPLICATION

for

EAGLE RIDGE DEVELOPMENT
179th STREET & WOLF ROAD
ORLAND PARK, ILLINOIS

Prepared For:

Clearview Construction
179th @ 108th Street
Orland Park, Illinois

Prepared By:

Wehler·Peterson & Associates, Ltd.
226A West State Street
St. Charles, Illinois

May 24, 1993

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JOINT APPLICATION FORM

1. Application Number (To be assigned by Agency)

2. Date
Day Month Year

3. For Agency use only (Date Received)

4. Name and address of applicant
John Voss, Vice President
Clearview Construction
179th St. @ 108th St.
Orland Park, IL 60462
Telephone no. during business hours
A/C ( ) _____
A/C (708) 479-5999

5. Name, address, and title of authorized agent
William Stefik
Tech 3 Consulting Group Inc.
1395C Main Street
Crete, IL 60417
Telephone no. during business hours
A/C ( ) _____
A/C (708) 672-4994

6. Describe in detail the proposed activity, its purpose, and intended use. If additional space is needed, attach additional support information to each agency application.

The wetland area will be excavated to create a retention pond/wetland with open wetlands having a water depth from 0"-2' and open water areas having a depth of 10'-0". The wetlands will be expanded from the current 5.05± Ac. to 7.26+ Ac. with continuously flowing water from the tributary.

7. Names, addresses, and telephone numbers of all adjoining and potentially affected property owners, including the owner of subject property if different from applicant.

Alexander Miklos
17500 - 110th Ct.
Orland Park, IL 60462

Carl Rooney
17455 - 110th Ct.
Orland Park, IL 60462

William Acheson
10229 So. 89th Ave.
Palos Hills, IL 60465

Harwood Stellwagen
17701 - 108th Ave.
Orland Park, IL 60462

Malone and Maloney
11118 Brook Hill Court
Orland Park, IL 60462

8. Location of activity
Address:
179th St. & Wolf Road
Street, road, or other descriptive location
Orland Park
In or near city or town
Cook County IL State 60462 Zip Code

Legal Description:
- 32 36 12 3
¼ Sec. Twp. Rge. P.M.

Tax Assessor's Description (if known):
Map No. Subdiv. No. Lot No.

Name of waterway at location of the activity
Tributary to Marley Creek

9. Date activity is proposed to commence Spring, 1993 Date activity is expected to be completed Spring, 1994

10. Is any portion of the activity for which authorization is sought now complete? ___ Yes X No If answer is "Yes" give reasons in the remark section. Month and Year the activity was completed _____ Indicate the existing work on drawings.

11. List all approvals or certifications required by other federal, interstate, state, or local agencies for any structures, construction, discharges, deposits, or other activities described in this application. If this form is being used for concurrent application to the Corps of Engineers, Illinois Department of Transportation, and Illinois Environmental Protection Agency, these agencies need not be listed.

Issuing Agency	Type Approval	Identification No.	Date of Application	Date of Approval
Orland Park	Zoning			
Orland Park	Engineering			
IEPA	Water Main			
IDOT-Div. Waterways	Creek Damming			
Water Rec. Dist.	Sanitary			

12. Has any agency denied approval for the activity described herein or for any activity directly related to the activity described herein.
___ Yes X No (If "Yes", explain in remarks.)

13. Remarks

14. Application is hereby made for authorizations of the activities described herein. I certify that I am familiar with the information contained in the application, and that to the best of my knowledge and belief, such information is true, complete, and accurate. I further certify that I possess the authority to undertake the proposed activities.

_____
Signature of Applicant or Authorized Agent

NCR FORM 426
01 JUNE 81

CORPS OF ENGINEERS COPY - SEE JURISDICTIONAL MAP FOR ADDRESS

AGENCY SUBMISSIONS

WEHLER • PETERSON

226-A West State Street
St. Charles, IL 60174

708-377-1775
708-377-1976 FAX

LETTER OF TRANSMITTAL

TO: IDOT/DWR
310 So. Michigan Ave. Room 1606
Chicago, IL 60604-4205

DATE: 5/24/93	JOB NO: 6093
ATTENTION:	
RE:	

WE ARE SENDING YOU ☒ Attached ☐ Under separate cover via _____ the following items:

☐ Shop drawings ☐ Prints ☐ Plans ☐ Samples ☐ Specifications
☐ Copy of letter ☐ Change order ☐ _____

COPIES	DATE	NO.	DESCRIPTION
1	5/24/93		Section 404 Permit Application and Supporting Documentation

THESE ARE TRANSMITTED as checked below:

☒ For approval ☐ Approved as submitted ☐ Resubmit _____ copies for approval
☒ For your use ☐ Approved as noted ☐ Submit _____ copies for distribution
☐ As requested ☐ Returned for corrections ☐ Return _____ corrected prints
☐ For review and comment ☐ _____
☐ FOR BIDS DUE _____ 19 _____ ☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS Simultaneous submission being made to U.S. ACOE

COPY TO Bill Stefik

SIGNED: Larry Peterman

If enclosures are not as noted, kindly notify us at once.

WEHLER • PETERSON

226-A West State Street
St. Charles, IL 60174

708-377-1775
708-377-1976 FAX

LETTER OF TRANSMITTAL

TO: IEPA/DWPC Permit Section
Watershed Unit
2200 Churchill Road
Springfield, IL 62706

DATE: May 24, 1993	JOB NO: 6093
ATTENTION:	
RE:	

WE ARE SENDING YOU ☒ Attached ☐ Under separate cover via _____ the following items:

☐ Shop drawings ☐ Prints ☐ Plans ☐ Samples ☐ Specifications

☐ Copy of letter ☐ Change order ☐ _____

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☐ FOR BIDS DUE _____ 19 _____ ☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS Simultaneous submission being made to U.S. ACOE

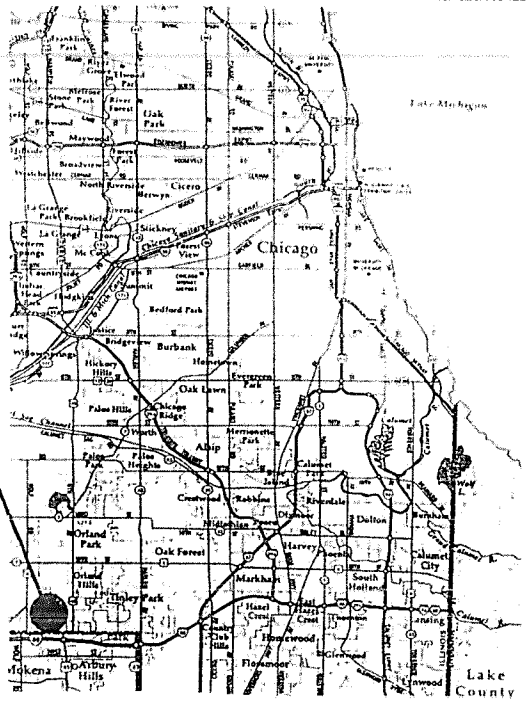
COPY TO Bill Stefik

SIGNED: Larry Peterman

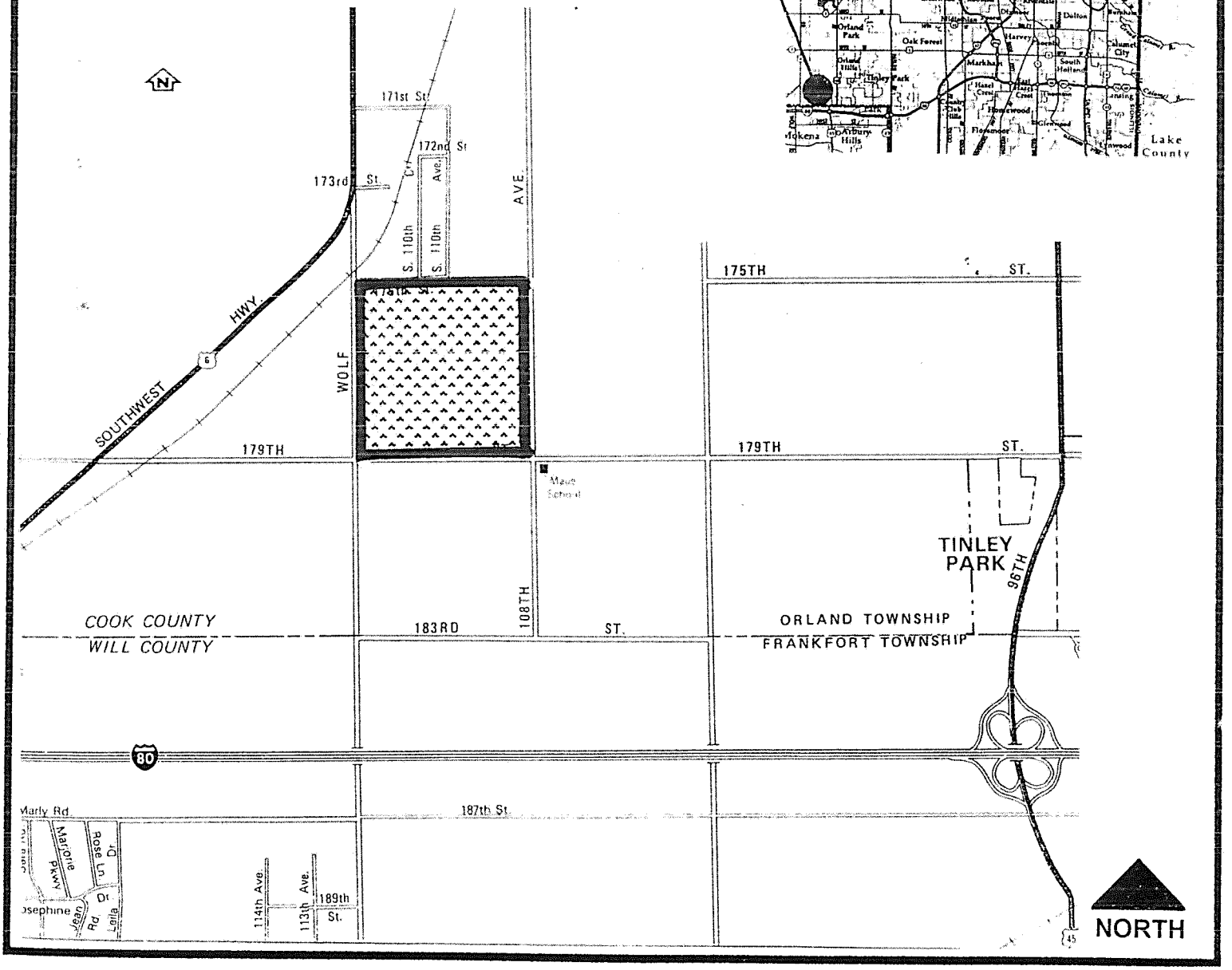
If enclosures are not as noted, kindly notify us at once.

LOCATION MAP

Site Location Map



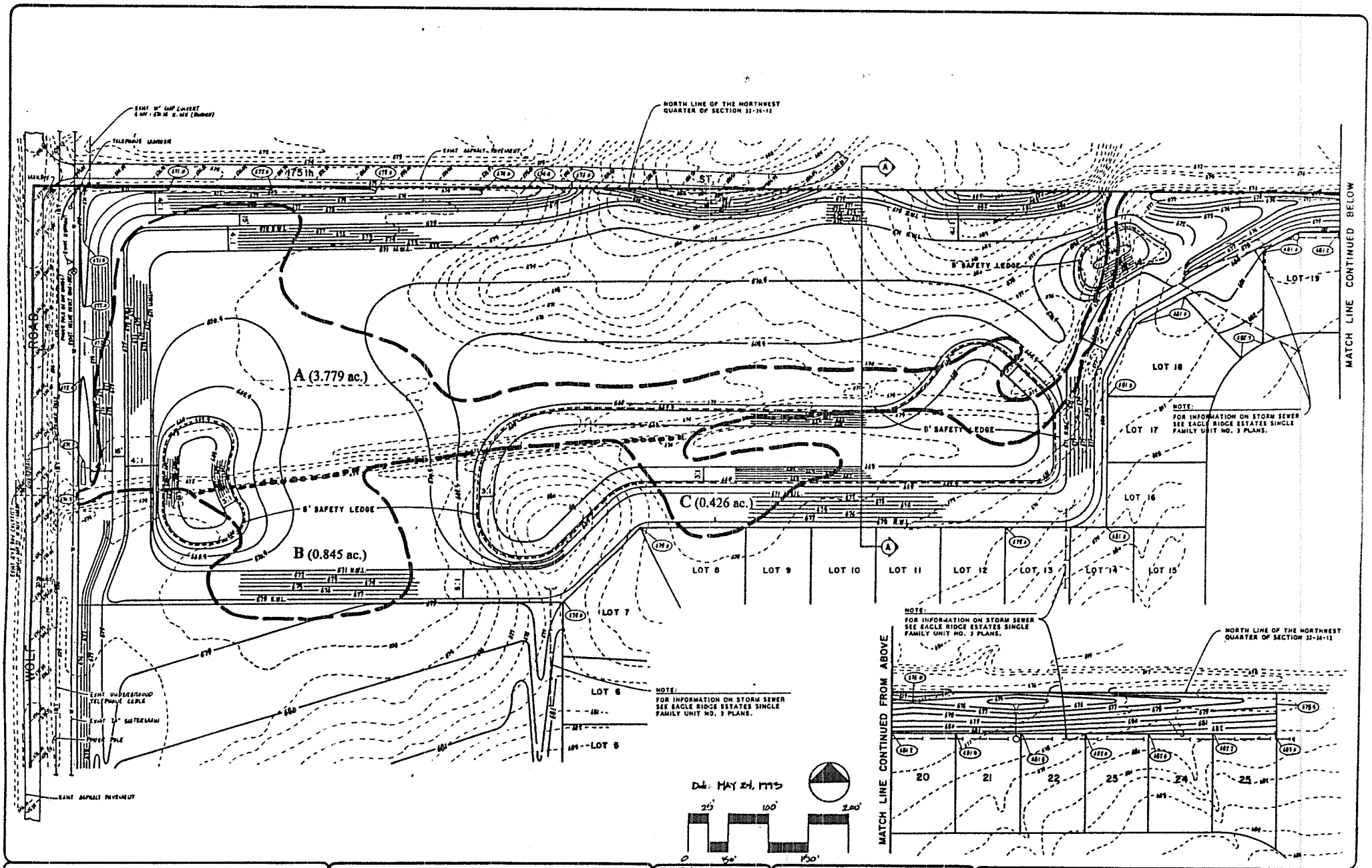
Study Area



Project: Eagle Ridge - Orland Park, IL
Date: May 20, 1993
Scale: N.T.S.
Location: T36N, R12E, Section 32

WEHLER • PETERSON & ASSOCIATES, LTD.
Landscape Architecture • Land Planning • Wetlands Mitigation
226A West State Street • St Charles, IL 60174 • 708-377-1775

DELINEATION PLAN



TECH 3 CONSULTING GROUP, INC.
ENGINEERS SURVEYORS PLANNERS
1305 C MAIN STREET CRETE, ILLINOIS 60417 672-4094

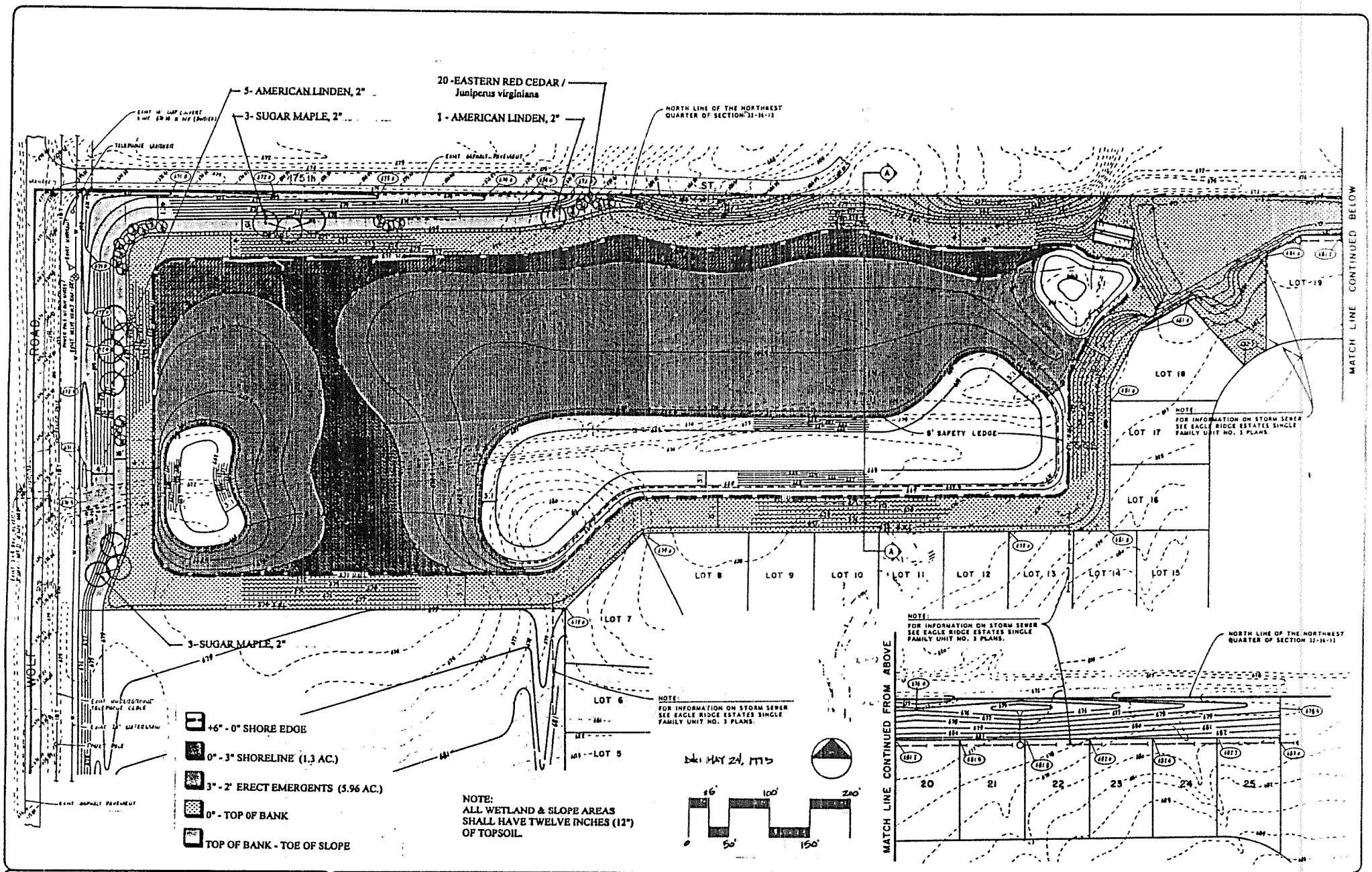
DESIGNED BY
DRAWN BY
CHECKED BY

REVISIONS			
NO	DATE	BY	DESCRIPTION

WEHLER • PETERSON & ASSOCIATES, LTD.

WETLAND DELINEATION PLAN

MITIGATION PLAN



TECH 3 CONSULTING GROUP, INC.
ENGINEERS SURVEYORS PLANNERS
1105 E MAIN STREET CRETE ILLINOIS 60417 (708) 672-4004

DESIGNED BY
DRAWN BY
CHECKED BY

NO	DATE	BY	DESCRIPTION

REVISIONS

WEHLER • PETERSON & ASSOCIATES, LTD.

WETLAND MITIGATION PLAN

PLANT LIST

+6"-0" Shore Edge*

200 Acorus calamus/Sweet Flag
200 Iris virginica/Blue Iris

0"-3" Shoreline (1.3 ac)*

500 Ascelpias incarnata/Swamp Milkweed
500 Leersia oryzoides/Rice Cut Grass
300 Pontederia cordata/Pickerel
500 Sagattaria latifolia/Arrowhead
500 Scirpus acutus/Hardstem Bulrush
300 Sparganium eurycarpum/Burreed

3"-2' Erect Emergents (5.96 ac)*

4000 Alismaplantago-aquatica/Water Plantain
4000 Equisetum fluviatilis/Watern Horsetail
1500 Numphaea odorata/White Waterlily
1500 Sagittaria rigida/Stiff Arrowhead
4000 Scirpus fluviatilis/River Bulrush

***Plant in scattered pods of 20-30 tubers and protect pods with Geojute Mesh.**

0"-Top of Bank (3.88 ac.) 57.64 lbs/ac. ++

224.00 lbs. Provide LaFayette Home Nursery Seed Mix #3B Wet to Mesic Prairie with Forbs, Annuals & Short-lived Perennials, or equalivalent

Add

+ 2.00 lbs. Bouteloua curtipendula/Sideoats Grama
+ 1.00 lbs. Bouteloua gracilis/Blue Grama
+ 4.00 lbs. Buchloe dactyloides/Buffalograss

+These grasses to be seeded separately into the top 1/3 of the slope.

Top of Bank to Toe of Slope (1.26 ac) ++

86.00 lbs. Provide LaFayette Home Nursery Seed Mix #18 Broad Spectrum Slope Seed at 68.25 lbs/ac

Add

4.00 lbs. Seed Mix #10A Annuals & Short-lived Perennials at 3.00 lbs/ac

Add

5.00 lbs. Mesic to Dry Prairie Forbs Mix @ 3.55 lbs/ac

++ Cover all slope areas with Anti-Wash/GeoJute supplied by:
Belton Industries, Inc.
8613 Roswell Road
Altanta, GA 30350 1-800-225-4099

Wetland Mitigation PLANT LIST

WEHLER • PETERSON & ASSOCIATES, LTD.
Landscape Architecture • Land Planning • Wetlands Mitigation
226A West State Street • St Charles, IL 60174 • 708-377-1775

WETLAND SPECIFICATIONS

WETLANDS PLANTING

SCOPE OF WORK

1.01 This work shall consist of furnishing, transporting, and installing all seeds, plants, or other materials required for (1) the establishment of the planted areas, (2) post-planting management, and (3) any remedial operations in conformance with the Plans as specified in these Special Provisions or as directed by the Landscape Architect.

1.02 Rough grading will be done by the Earthwork Contractor under his contract. After planting is completed, the Owner shall be responsible for removing the causeway and leaving the pond areas graded to plan. All marsh areas to be planted shall be brought to final grade according to the drawings and specifications by the Contractor. The Landscape Architect will stake the limits of the normal water contour and 1' above the normal water and high water contour. The pond water shall be drawn down and held down by the Contractor, either all at once or one pond at a time. Planting shall begin in the highest zone and proceed down to the under water zones.

BED PREPARATION

2.01 Final grade of planting beds is critical to the survival of the species planted. Species are grouped into zones that are directly related to their grade and the elevation of pond water. Final grade shall be the Contractor's responsibility because much of the survival of plants depends on proper water depth.

2.02 Areas with existing vegetational cover shall be disked prior to seeding.

2.03 All areas must have a minimum of 6 inches of topsoil. Topsoil will be spread by Contractor. Pulverization is not necessary. A smooth product is not required.

SEED CERTIFICATION

3.01 All seed shall be guaranteed by the vendor to be true to name origin, purity, germination and percent pure live seed per pound.

3.02 Where state certification laws are in force, all seed shall bear certification of tests acceptable to that state's control agency and shall be free of all noxious weeds. The amount of all other weed seeds shall not exceed one percent.

3.03 Seed inoculation is not required.

3.04 Seeding methods shall be done in a manner to ensure complete coverage of the area to be seeded at the specified seeding rate and so that seed is raked well into the topsoil. Seed shall be sown to an average depth of 1/4 inch. These beds will be underwater periodically and seed is in danger of washing away.

Within twelve hours after seeding, the seeded areas shall be rolled to compact the seed bed and ensure contact of seed with the soil. Slopes shall be rolled at right angles to water run off. In under water zones rolling shall precede planting of root stock.

3.05 Period of seeding shall be between completion of pond grading and no later than September 15.

If the Owner agrees in writing to extend the planting to the next season, the period of planting shall be from April 15 to June 30. If spring planting is decided upon, top dressing of the topsoil shall be done by the Contractor to bring it to a 6" depth.

3.06 No seeds shall be sown during high winds or when the seed bed is not in a proper condition for seeding.

3.07 Within 24 hours after seeding all zones above water beds shall be given one of the following coverings of mulch:

A. Straw mulch shall be applied uniformly at a rate of approximately 2 tons per acre on all planting beds. The mulch shall be loose enough to permit air to circulate but compact enough to reduce erosion. Mulch material shall contain no noxious weeds.

B. Excelsior mulch shall be made of wood fibers approximately 4 to 6 inches long cut from sound green timber. Cutting shall be made at a slight angle to the wood grain to provide maximum fiber strength but causing splintering of the fiber after weathering. Excelsior mulch shall be spread at a uniform rate of 71 bales per acre.

3.08 No maintenance of seeded areas will be required after germination has been established to the approval of the Landscape Architect. Any gaps between areas of growth greater than 8 square feet shall be resown and/or replanted.

TREE PLANTING

4.01 This work shall consist of furnishing and planting trees of the species indicated on the drawings. All trees shall conform to the specifications for the American Standard for Nursery Stock as approved by the American National Standards Institute No. ANSI Z60.1-1973. Trees shall be balled and burlapped and grown by a northern, state-inspected nursery. Trees shall be reasonably straight, branched and free of insect and disease problems. The Landscape Architect reserves the right to tag trees at the nursery. Trees shall be planted at locations shown on the drawings, spaced randomly.

4.02 All broken or damaged branches shall be pruned at the time of planting in a manner that will preserve the natural growth habit of each tree in accordance with the best horticultural practices. Pruning shall be done at the time of planting for purposes of thinning and the terminal leader shall not be removed.

4.03 Guarantee: All original and replacement trees shall be guaranteed to remain in good live condition throughout the calendar year following the year of planting. The Contractor shall replace any dead or diseased plants, in accordance with these specifications, during the present or next planting season following receipt of a written statement from the Landscape Architect that replacement for a specific plant is required.

4.04 Watering: All trees shall be thoroughly watered at the time of planting.

4.05 All of the trees shall be mulch to a depth of 4" and placed for a diameter of matching plant ball. The type of mulch shall be one of the types specified in the SEEDING Section 3.07.

SHRUB PLANTING

5.01 This work consists of furnishing and planting shrubs of the species indicated on the drawings. All shrubs shall conform to the specification for the American Standard for Nursery Stock as approved by the American National Standards Institute No. ANSI Z60.1-1973. The Elderberry may have to be collected and installed bare root.

5.02 Shrubs shall be balled and burlapped and grown by a northern, state-inspected nursery. Shrubs shall be reasonably symmetric, branched and free of insects and disease problems. Shrubs shall be planted at locations shown on the drawings.

5.03 All broken or damaged branches shall be pruned at the time of planting in a manner that will preserve the natural growth habit of each shrub in accordance with the best horticultural practices. Pruning shall be done at the time of planting for purposes of thinning and the natural habit shall not be destroyed.

5.04 Guarantee All original and replacement shrubs shall be guaranteed to remain in good live condition throughout the calendar year following the year of planting. The Contractor shall replace any dead or diseased plants, in accordance with these specifications, during the present or next planting season following receipt of a written statement from the Landscape Architect that replacement for a specific plant is required.

5.05 Watering All shrubs shall be thoroughly watered at the time of planting.

5.06 All shrubs shall be mulched. The type and depth of mulch shall be as specified in the TREE PLANTING Section 4.05.

ROOT STOCK PLANTING

6.01 This work shall consist of furnishing and hand planting root stock or tubers of the species specified on the drawings. All materials shall be free of insect and disease problems. Each species shall be handled and packed in the manner approved for that plant, having regard for the soil and climatic conditions at the time and place of digging and of delivery, and to the time that will be consumed while in transit or delivery. All precautions that are customary in good trade practice shall be taken to insure the arrival of the plants in good condition. Root stock shall be one year old transplants planted at the locations shown on the drawings. Note on plans that depth of planting and spacing varies from species to species.

6.02 Rows and the stock in the rows shall be spaced as designated. Alternate rows shall be staggered. Holes for the root stock shall be made large enough to accommodate the entire root system and the soil shall be worked in carefully among the roots. The crown shall be set as specified for each species.

6.03 Replacement plantings will be required if material is not of the species specified or not planted correctly.

6.04 All root stock shall be watered thoroughly at the time of planting.

6.05 Depending on water levels, the Contractor may use seeds to supplement the root stock planting. If this method is used, written approval from the Landscape Architect is required prior to use.

MESH COVERING

7.01 Root stock shall be covered with the mesh from Belton "Anti-Wash/Geojute", (Belton Industries, Inc., 8613 Roswell Road, Suite 200, Atlanta, GA 30338, 1-800-225-4099 or Telex: 494-2174) or approved equal, and weighted so it will hold the mesh to the soil surface at and below the water surface. Chicken wire or other metal products shall not be used. Injuring an adventuresome child is not worth any advantage that chicken wire has over other products.

7.02 The Landscape Architect will inspect for the installation of the mesh and will approve or disapprove of its installation. The Contractor shall make whatever remedial steps are requested by the Landscape Architect. If wire products are found to have been used, the Contractor shall remove them at his/her own expense and if plant material is damaged in the process then the Contractor shall supply materials and labor to replant those areas at his/her own expense.

INSPECTION AND ACCEPTANCE

8.01 Upon the written request of the Contractor, the Landscape Architect shall inspect all work for completion. The request shall be received at least 10 calendar days before the anticipated date of inspection, but not more than 35 days after the last seeding. Root stock and mesh cover inspection shall be from time to time as it is being installed and before the area to be inspected is flooded.

8.02 The Contractor shall be responsible for the satisfactory growth of grass, trees, shrubs, and vascular plant species on all areas seeded and/or planted under the Contract until final acceptance of the work. A search shall be conducted at the end of the first and second growing seasons after seeding and/or planting (fall of each season). The search will randomly sample the area for each class that was seeded and/or planted. If 75% of the species seeded and/or planted are alive and apparent and the same seeded area has 90% ground cover of acceptable species, 90% of vascular species, and 100% of tree and shrub species, the work will be accepted.

8.03 Upon satisfactory completion and reinspection of all repairs or renewals necessary, the Landscape Architect shall certify in writing as to the completion of the work. The reseeding shall have come along far enough to judge its success before the seeding shall be considered acceptable.

CLEAN UP

9.01 Upon completion of planting, seeding, mulching operations the Contractor shall remove from the area all equipment, debris and excess material. The premises shall be left in a neat and orderly condition.

POST PLANTING MANAGEMENT

10.01 In the spring of the year after planting, the Contractor shall monitor growth at the site and schedule a time to eliminate emerging cattails when they are 3 to 4 feet in height. The Contractor shall use a wick applicator or similar device to apply "Rodeo" to the cattails at their apex as the manufacturer recommends. Cattails shall be "wicked" wherever they appear in the marsh areas at the site.

10.02 The Landscape Architect will inspect the site at an appropriate length of time after this treatment to inspect the results and approve or disapprove the work.

FIVE YEAR MONITORING

FIVE YEAR

WETLANDS MONITORING

This program is being established for the purpose of the following:

- The development of the newly established wetlands habitats.
- The purpose is to determine the success of the plantings that have been installed and to insure that quality habitats form while denying a major foothold to invasive wetland plants.

First and Second Years

In concert with the contractor, an inspection of the site will take place at the end of the growing season (Fall). The search will randomly sample the area for each class that was seeded and/or planted. If 75% of the species seeded and/or planted are alive and apparent and the sample seeded area has 90% groundcover of acceptable species, 90% of vascular species, and 100% of tree and shrub species the work will be accepted. Following the inspection a report will be prepared and forwarded to the Army Corps for their use.

Third through Fifth Year

In the succeeding years of the program a random search will be conducted at the beginning of the growing season.

A report will be prepared following each search that will relate to the original mitigation plan. The report will include:

1. Thriving plant types
2. Plant types that have not survived
3. The general condition of the wetland areas
4. To the extent possible, the level and type of wildlife inhabiting the wetland

Burning

Where the wetlands restoration contains 30% or greater percentage of Wet/Mesic/Dry Prairie grasses and sedges at least once during the monitoring period the wetlands shall be burned.

Burning shall occur during the fall following the third growing season. Burning may, however, be necessary following the second growing season if 30% of the site is being invaded by such invasive plants as cattails, loosestrife, etc. Successive burnings shall occur as the build-up of fuel matrix dictates.

Burning shall be undertaken with appropriate equipment and the supervision of a qualified consultant and with the cooperation of the local fire department.

At such time during the course of this program, the level of invasive plants (cattails, loosestrife, etc.) begin to take over more than 30% of the site the Army Corps or other appropriate agency shall be consulted so the remedial action can be taken.

LONG TERM MAINTENANCE PROGRAM

LONG TERM MAINTENANCE PROGRAM

This program is being established for the purpose of perpetuating the success of the plantings that have been installed and to insure that quality habitats form while denying a major foothold to invasive wetland plants.

In concert with a qualified consultant, an inspection of the site will take place at the middle of the growing season. The search will randomly sample the area for each class that was seeded and/or planted. If 75% of the species seeded and/or planted are alive and apparent and the sample seeded area has 90% groundcover of acceptable species, 90% of vascular species, and 100% of tree and shrub species the work will be accepted.

In the succeeding years of the program a random search will be conducted at the beginning of the growing season.

A report will be prepared following each search that will relate to the original mitigation plan. The report will include:

1. Thriving plant types
2. Plant types that have not survived
3. The general condition of the wetland areas
4. To the extent possible, the level and type of wildlife inhabiting the wetland

BURNING

Where the wetlands restoration contains 30% or greater percentage of Wet/Mesic/Dry Prairie grasses and sedges the wetlands shall be burned during October or November at least once every two years.

Burning shall be undertaken with appropriate equipment, permits, and the supervision of a qualified consultant and with the cooperation of the local fire department.

At such time during the course of this program, if the level of invasive plants (cattails, loosestrife, etc.) begins to take over more than 30% of the site the Association will undertake remedial action to remove the invasive species and replant the disturbed areas with the originally recommended species.

WETLAND REPORT

EAGLE RIDGE
WETLAND REPORT

179th & WOLF ROAD
COOK COUNTY, ILLINOIS

Prepared for:

Clearview Construction
179th and 108th Avenue
Orland Park, Illinois 60462

Prepared by:

Wehler·Peterson & Associates, Ltd.
226A West State Street
St. Charles, Illinois 60174

May 24, 1993

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WETLAND REPORT
179TH & Wolf Road

1.0 EXISTING CONDITIONS

1.1 Site Description

The subject site consists of 160 acres in Section 32, of Township 36 North, Range 12 East in Cook County, and is tributary to Marley Creek. An unnamed tributary to Marley Creek flows through the site. The site is gently sloping with higher elevations at the south and lower elevations at the north. Wetland soils dominate the northern and northwestern portions of the property. Ashkum soils associated with the tributary are prevalent in these areas. The entire area has been under cultivation in the past.

There are two separate drainageways through the site. The tributary to Marley Creek is in the north. This open ditch has been improved and drains approximately 1/3 of the property. Most of the flow through this ditch originates upstream from the subject site. This ditch flows under Wolf Road into Marley Creek at the northwest corner of the site. A drainage tile through the center of the site constitutes the second drainageway. The tile is in a natural drainageway, and connects with tile systems to the east. Flows from this tile system cross Wolf Road approximately 700' south of where the tributary crosses and enters a wetland fringe area associated with Marley Creek.

Vegetation on the site is lacking over most of the parcel due to agriculture. The tributary is tree-lined and contains emergent growth in the channel. An area at the northwest corner contains early successional wetland species in areas of disturbance and sparse sedges at the extreme corner. This corner is the lowest point on the site. A grass strip is maintained in the second drainage swale.

1.2 Wetland Description

Wetland A

Wetland A is a 3.779 acre wetland located in the northwest corner of the property. It is located north of and adjacent to the tributary. This area is at the lowest elevations found on site. The soils are Ashkum in the east and Milford in the west. Both soils are hydric with seasonally high water tables of 0-2 feet.

High water creating wetland conditions is a result of overflows from the tributary. Water is ponded in the extreme northwest corner due to high water in Marley Creek. This area is at the confluence of the Marley Creek and its tributary. Drainage from this area flows into the tributary channel at the west end near the culvert under Wolf Road. It also drains directly into Marley Creek through a 10" culvert under an adjacent drive at the northwest corner. This area provides flood storage during times of high water. When high water recedes in the dry season, drainage to Marley Creek and the tributary continues.

Vegetation is disturbed over the entire wetland. Sedges can be found at the culvert to Marley Creek only. The remainder of the area is farmed and dominated by smartweed and other pioneer species. The tributary is vegetated with willow trees and box elder along the banks and river bulrush in the channel.

The quality of the water in the wetland and channel is poor due to heavy silt loads. Silt deposits have filled the bottom of the channel.

Wetlands B & C

Wetlands B and C are 0.845 and 0.426 acres respectively. Both wetlands are fringe areas associated with the south side of the tributary. Wetland B is mapped as Milford soils and Wetland C is mapped as Ashkum soils.

Both wetlands pond in early spring. Drainage into the improved tributary to Marley Creek is blocked by artificial levees running parallel to the channel.These levees most likely are made up the dredged materials deposited at the time of channelization. There are openings in the levees allowing seasonal ponding as the tributary overflow.

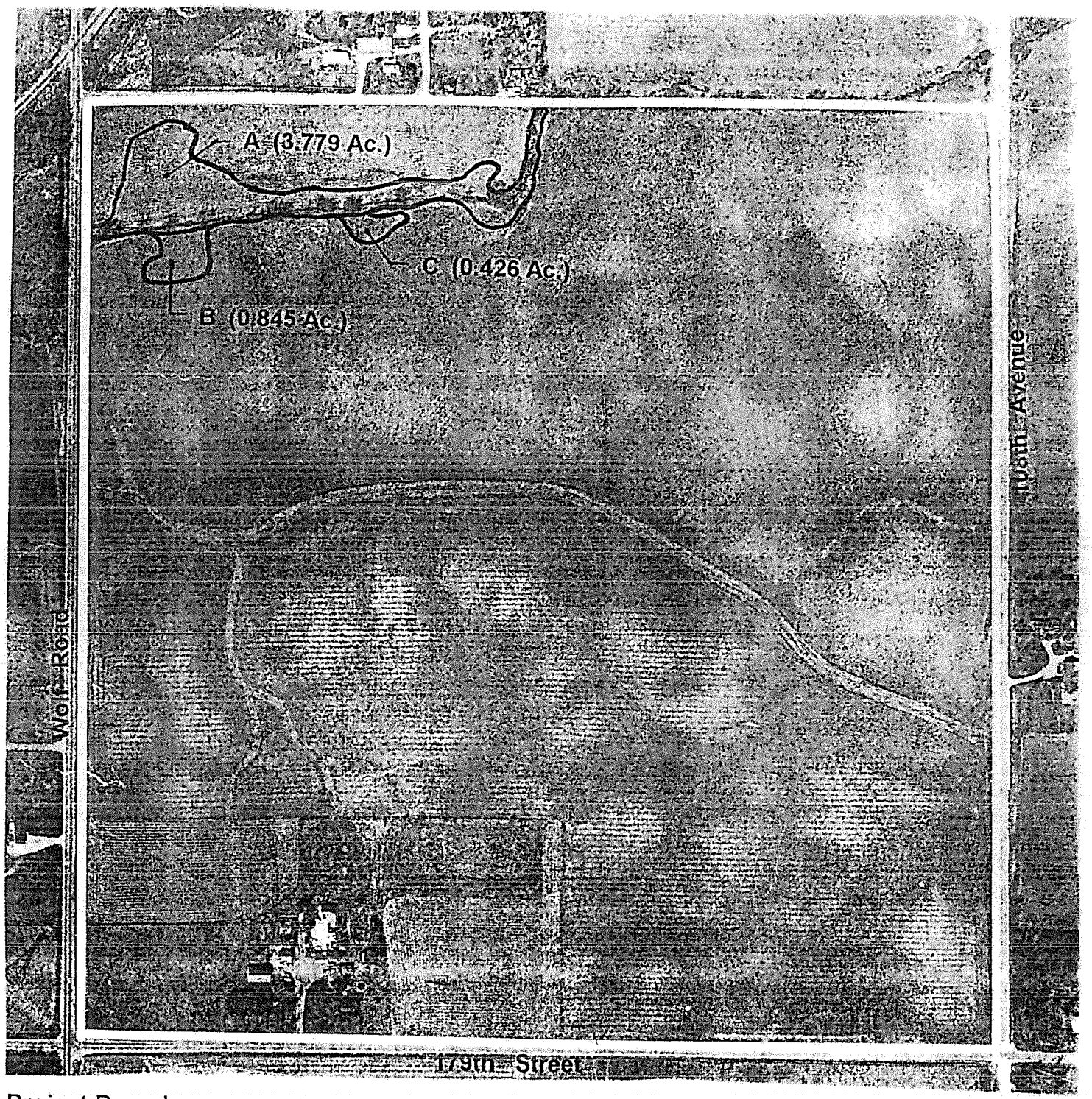
1.3 Wetland Summary

#	Size	Hydology	Soil	Vegetation
A	3.779	Seasonally flooded	Milford	Pioneer species
B	0.845	Seasonally flooded	Milford	Farmed
C	0.426	Seasonally flooded	Ashkum	Farmed

Total: 5.05 acres

Exhibit A

Wetland Delineation Aerial Photo



Project Boundary
Wetland Perimeter
Data Point A

Aerial Source: The Sidwell Company
Aerial Date: Spring 1987

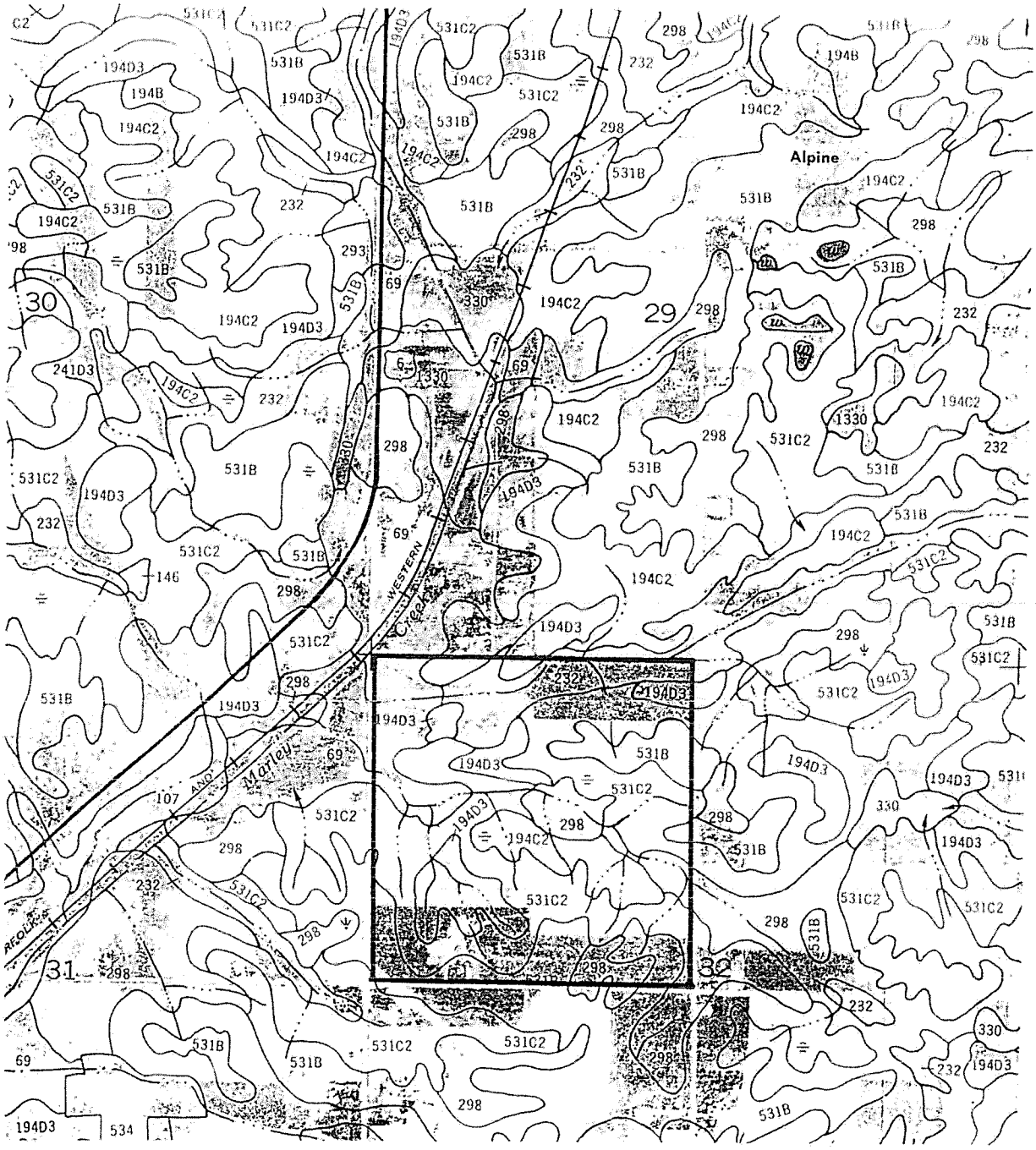
NORTH

Project: Eagle Ridge - Orland Park, IL
Date: May 20, 1993
Scale: 1" = 400'
Location: T36N, R12E, Section 32

WEHLER • PETERSON & ASSOCIATES, LTD.
Landscape Architecture • Land Planning • Wetlands Mitigation
226A West State Street • St Charles, IL 60174 • 708 377 1778

Exhibit B

Soil Conservation Service Soil Survey



Study Area Boundary

NORTH

Project: Eagle Ridge - Orland Park, IL
Date: May 20, 1993
Scale: 1" = 1320'
Location: T36N, R12E, Section 32

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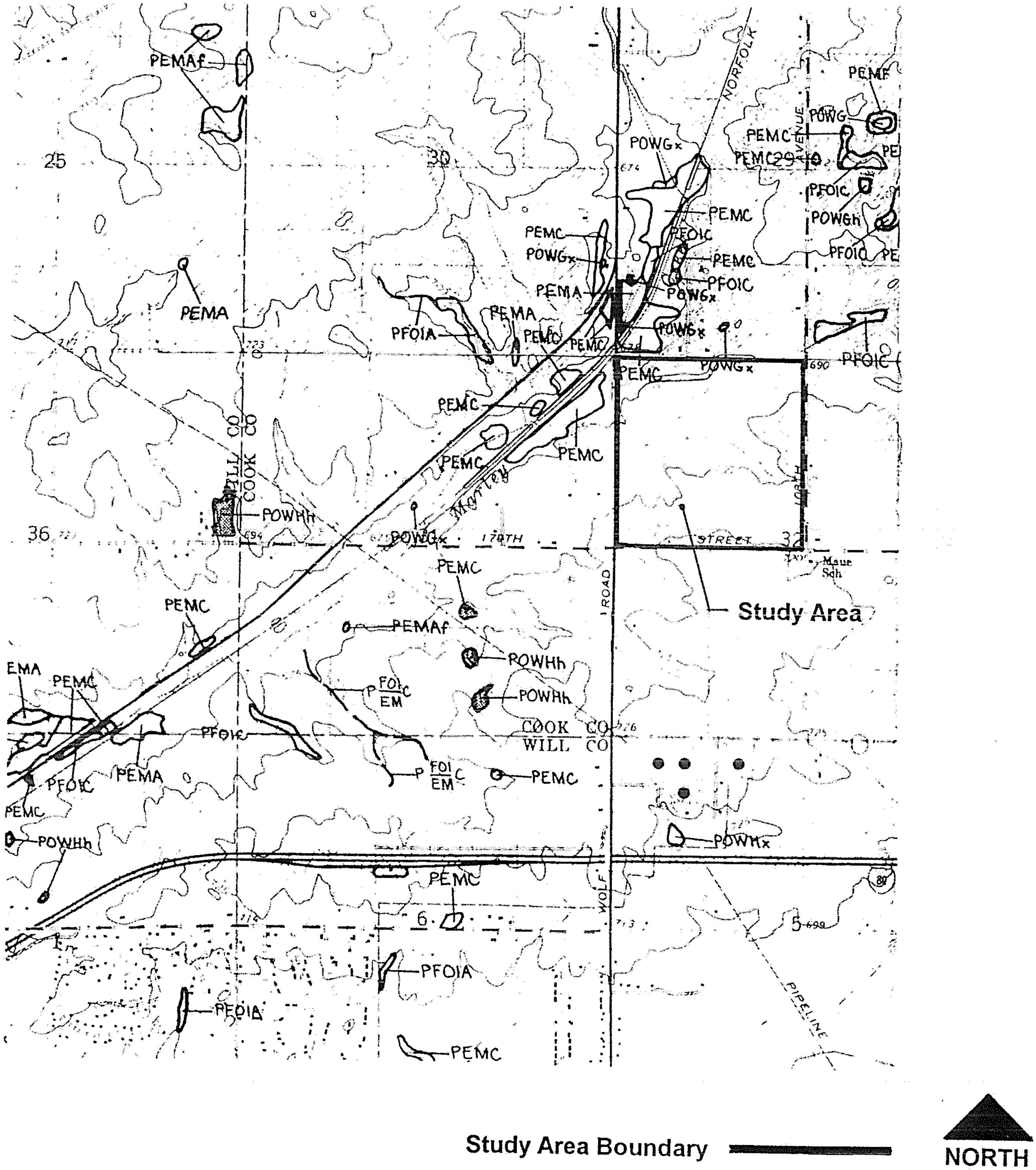
Exhibit C

National Wetlands Inventory



Project:	Eagle Ridge - Orland Park, IL
Date:	May 20, 1993
Scale:	1" = 2000'
Location:	T36N, R12E, Section 32

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DATA FORM
ROUTINE ONSITE DETERMINATION METHOD

Field Investigator(s): Wehler Peterson & Associates, Ltd. Date: 10-15-92
Project/Site: 179th & Wolf Road State: IL County: Cook
Applicant/Owner: Clearview Construction Plant Community#/Name: A
NOTE: If a more detailed site description is necessary, use back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes x No ____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes x No ____ (If yes, explain on back)

VEGETATION

Dominant Plant Species	Status	Dominant Plant Species	Status
1. Carex sp.	OBL	8. Salix fragilis	FAC+
2. Ambrosia trifida	FACW+	9. Scirpus fluviatilis	OBL
3. Setaria faberii	UPL	10. Acer negundo	FACW+
4. Polygonum pensylvanicum	FACW+DRA	11. Helianthus grosseserratus	FACW-
5. Aster sp.			
6. Salix interior	OBL DRA		
7. Phalaris arundinacea	FACW+		

Percent of dominant species that are OBL, FACW, and/or FAC: 90+%
Is the hydrophytic vegetation criterion met: Yes x No ____
RATIONALE: > 50%

SOILS

SCS Mappng Unit: 232 Ashkum Subgroup: ____
Is the soil on the hydric soils list: Yes x No ____ Undetermined ____
Is the soil a Histosol: Yes ____ No ____ Histic epipedon present Yes ____ No ____
Is the soil: Mottled: Yes ____ No ____ Gleyed: Yes ____ No ____
Matrix color: 10 YR 2/0 (wet) Mottle colors: ____
Is SCS mapping unit confirmed in field: Yes x No ____
Other hydric soil indicators: ____
Is the hydric soil criterion met? Yes x No ____
RATIONALE: Low chroma

HYDROLOGY

Is the ground surface inundated: Yes ____ No x Surface water depth: 3"
Is the soil saturated: Yes x No ____
Depth to free-standing water in pit/soil probe hole: ____
List other field evidence of surface inundation or soil saturation. ____
Silt on Grass; drift lines
Is the wetland hydrology criterion met: Yes x No ____
RATIONALE: Water present

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes x No ____
RATIONALE: All indicators positive

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD

Field Investigator(s): Wehler Peterson & Associates, Ltd. Date: 10-15-92
Project/Site: 179th & Wolf Road State: IL County: Cook
Applicant/Owner: Clearview Construction Plant Community#/Name: B-C
NOTE: If a more detailed site description is necessary, use back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ____ No x (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes x No ____ (If yes, explain on back) Farmed

VEGETATION

Dominant Plant Species	Status	Dominant Plant Species	Status
1. Zea mays	UPL		
2. Glycine max	UPL		
3.			
4.			
5.			
6.			
7.			

Percent of dominant species that are OBL, FACW, and/or FAC: 0%
Is the hydrophytic vegetation criterion met: Yes ____ No x
RATIONALE: Farmed; has disturbed vegetation

SOILS

SCS Mappng Unit: 232 Ashkum Subgroup: ____
Is the soil on the hydric soils list: Yes x No ____ Undetermined ____
Is the soil a Histosol: Yes ____ No x Histic epipedon present Yes ____ No ____
Is the soil: Mottled: Yes ____ No x Gleyed: Yes ____ No x
Matrix color: 10 YR 2/0 (wet) Mottle colors: ____
Is SCS mapping unit confirmed in field: Yes x No ____
Other hydric soil indicators: ____
Is the hydric soil criterion met? Yes x No ____
RATIONALE: Low chroma

HYDROLOGY

Is the ground surface inundated: Yes ____ No x Surface water depth: 3"
Is the soil saturated: Yes x No ____
Depth to free-standing water in pit/soil probe hole: ____
List other field evidence of surface inundation or soil saturation. ____
Is the wetland hydrology criterion met: Yes x No ____
RATIONALE: Water present

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes x No ____
RATIONALE: Soil and hydrology suggest that wetland plants could be supported, and would dominate if the field were not turned over in the early growing season.

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD

Field Investigator(s): Wehler Peterson & Associates, Ltd. Date: 10-15-92
Project/Site: 179th & Wolf Road State: IL County: Cook
Applicant/Owner: Clearview Construction Plant Community#/Name: D
NOTE: If a more detailed site description is necessary, use back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ____ No x (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes x No ____ (If yes, explain on back)

VEGETATION

Dominant Plant Species	Status	Dominant Plant Species	Status
1. Setaria faberii	UPL		
2. Polygonum pensylvanicum	FACW+DRA		
3. Abutilon theophrasti	UPL		
4. Amaranthus sp.	UPL		
5.			
6.			
7.			

Percent of dominant species that are OBL, FACW, and/or FAC: 25%
Is the hydrophytic vegetation criterion met: Yes ____ No x
RATIONALE: < 50%

SOILS

SCS Mappng Unit: 69 Milford Subgroup: ____
Is the soil on the hydric soils list: Yes ____ No ____ Undetermined ____
Is the soil a Histosol: Yes ____ No ____ Histic epipedon present Yes ____ No ____
Is the soil: Mottled: Yes ____ No ____ Gleyed: Yes ____ No ____
Matrix color: 10 YR 5/3 Mottle colors: ____
Is SCS mapping unit confirmed in field: Yes ____ No x
Other hydric soil indicators: ____
Is the hydric soil criterion met? Yes ____ No x
RATIONALE: Pebbles on surface suggest excavation

HYDROLOGY

Is the ground surface inundated: Yes ____ No x Surface water depth: ____
Is the soil saturated: Yes ____ No x
Depth to free-standing water in pit/soil probe hole: ____
List other field evidence of surface inundation or soil saturation. ____
Is the wetland hydrology criterion met: Yes ____ No x
RATIONALE: Wetness

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ____ No x
RATIONALE: Route of major field tile