

Agency: Commerce, Community and Economic Development**Grants to Municipalities (AS 37.05.315)****Grant Recipient: Matanuska-Susitna Borough****Federal Tax ID: 92-0030816****Project Title:****Project Type: Maintenance and Repairs**

Matanuska-Susitna Borough - Willow Community Center Area Improvements

State Funding Requested: \$65,000**House District: Mat-Su Areawide (7-11)**

One-Time Need

Brief Project Description:

Cut frost susceptible soils off of existing natural gravels on roads and parking lots to grade for drainage and to improve year round access.

Funding Plan:

Total Project Cost:	\$65,000
Funding Already Secured:	(\$0)
FY2014 State Funding Request:	(\$65,000)
Project Deficit:	\$0

*Funding Details:**No funding has been provided for this project.***Detailed Project Description and Justification:**

Willow Community Center Grounds Drainage and Parking lot Improvements

1. The PROBLEM: Because parking lots and road beds were built on ground that was not fully cleared of dirt or topsoil they are impassable during the spring thaw. Following the spring mud season parking areas and roadbeds remain badly rutted then extremely dusty throughout the summer. Access is impossible during spring thaw conditions restricting access by fire trucks and emergency vehicles.

1. SOLUTION: Cut frost susceptible soils off of existing natural gravels on roads and parking lots. Once soils have been removed mud ruts and dust will go with it. Advantages of eliminating dust includes air (breathing) quality and cleaner interior conditions in the center as well as in cars in the parking lot.

2. PROBLEM: The grade of the road from lakeside where the fire department emergency water supply pipe is to the elevation of the Community Center is too steep for the tankers and fire trucks to exit.

2. SOLUTION: By cutting the grade at the upper elevation of the access road and improving road bed materials emergency vehicles will have better traction and maneuverability to climb the hill.

3. PROBLEM: Spring snow melt floods in a low area directly in front of the Willow Community Center. Ponding water backs up to the parking lot threatening the underlayment of the asphalt.

3. SOLUTION: By excavating materials that water will not permeate through to the gravel layer below and replacing with drain rock the water can travel through to the aquifer. The material removed is perfect when spread for the grassy areas. The remaining low area can then be used for a convenient disposal area for other excavation areas, i.e. parking lots and roads.

4. PROBLEM: Currently there is limited access and egress roads to and from the community center grounds. A new access road and gate on the south side of the upper parking lot, unto I" avenue would improve traffic flow.

4. SOLUTION: Clean and shape the short distance from the southeast corner of the upper parking lot and install a gate to be opened for emergencies or high use

Project Timeline:

Once funded completion can be accomplished with 30 to 60 days.

Entity Responsible for the Ongoing Operation and Maintenance of this Project:

Willow Area Community Center

Grant Recipient Contact Information:

Name: John Moosey
 Title: Borough Manager
 Address: 350 E Dahlia Avenue
 Willow, Alaska 99645
 Phone Number: (907)745-9689
 Email: john.moosey@matsugov.us

Has this project been through a public review process at the local level and is it a community priority? Yes No

MSB Staff Only	
Date Received	5/11/12
ID Number	
Section	



MATANUSKA-SUSITNA BOROUGH

Six-Year Capital Improvement Program

FY 2014 - FY 2019

PROJECT NOMINATION FORM

Name of Project: Willow Community Center grounds, drainage, roads, and parking lots improvements

Is this a new project for the CIP? Yes No

Is this project a modification of a project that was on last year's CIP? Yes No

Organization: Willow Area Community organization - Willow Chamber of Commerce

Contact Person: John Anderson - Jim Huston

Phone Number: 355-4700

Email: AK Host @ MTA. on line .net

Address: P.O. Box 38 Willow AK. 99688

Photos, maps, or diagrams are helpful to illustrate a project nomination.

Brief Project Description: Please describe your project as fully as possible. What is it? Why is necessary? If it's a road, how long is the road? Where does it begin and end? If it's equipment is it new equipment? Why is needed? If it's a structure describe what functions it will house, and why it's needed.

See Attached

Location: Attach a map or aerial photo showing the project location if possible. Please include reference points such as Parks or Glenn Highway, nearby lakes, well known landmarks, or subdivision names. If it is a road project, please specify the beginning and the end of the project.

General Questions:

1. How many people will benefit from the project? Please describe the benefits (social, economic and/or environmental). The Willow Community Center hosts thousands of people each year. It houses the Community Library and its grounds and building is used regularly by residents clubs and organizations as well as rental groups, with conditions the way they are now public safety is at risk as well as the children in the playground and parking lots are subject to poor air quality. The run off from ^{the} muddy lake access road continually runs into the lake. Aesthetically the grounds look ugly - rough - muddy or rutted. Recreationalists deserve better.

2. If acreage or right-of-way is needed, please estimate how much is required.

The area requested for improvements lay entirely within the W.A.C.O. managed Borough property. At most a driveway permit from the Borough will be needed and a simple wet lands permit for less than ~~one~~ half to one acre.

3. Is the project supported by an adopted plan – such as a community, comprehensive or transportation plan? If so, how?

The community and W.A.C.O. members have talked about this need for years. Our comprehensive plan is in progress. Co-ordination with St. D.O.T. officials could show a joint benefit for right of way drainage by injection into the ground rather than eventually into the lake

4. What is the estimated time schedule for completing the project, if funding is received?

If funded the entire project could be completed in a 30 day time table.

5. What is the total cost of the project? \$ 65 K \$65,000.⁰⁰

6. Is the project:

Fully Funded?		Partially Funded?		Unfunded?		Underway?	
Yes <input type="radio"/>	No <input type="radio"/>	Yes <input type="radio"/>	No <input type="radio"/>	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Yes <input checked="" type="radio"/>	No <input type="radio"/>
How much money is budgeted for the project?		How much money is needed to complete the project?		How much money is needed? \$65,000 ⁰⁰ The Borough may want to engineer this project since it's on their property		Seventeen truck loads of soils were removed 6-2011 and were replaced with like amount of D-1 gravel. mud-ruts and dust were gone	

For projects underway, please describe what's been done and what remains to be done.

As noted above 17 loads out - 17 in correcting problems in close proximity to the old log building upper parking lot. MSB- Chuck Braun has witnessed existing problems.

MSB Staff Only			
Breakdown of costs (to nearest thousand)		Anticipated source of funding?	
Land and rights-of way	\$ _____	Current revenue	\$ _____
Engineering & design	\$ _____	State or federal grant	\$ _____
Construction	\$ _____	Special fund (Name)	\$ _____
Furniture & equipment	\$ _____	Special fund (amount)	\$ _____
Other (legal, admin, etc.)	\$ _____	Matching funds (name)	\$ _____
EST. TOTAL	\$ _____	Matching funds (amount)	\$ _____

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May 10, 2012

To Whom it May Concern:

We have discussed the proposed drainage plan with Mr. Huston for Mat-Su Borough properties and State D.O.T. Right of way between the Willow Community Center parking lot and the Parks Highway at mile 69.7. We find the plan worthy of further review and consideration. Trenching to permeable materials, back fill with sewer rock or bone rock is a standard viable procedure used to allow ground surface water to be injected back into the water table. This plan could be the answer to ponding and run off problems in the area.



Mat-Su DOT District Superintendent



WILLOW DOT FORMEN

May 10, 2012

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CHUCK BRAUN



Chuck Braun
O&M DIVISION MANAGER
Public Works Department

MATANUSKA-SUSITNA BOROUGH
1420 S. Industrial Way
Palmer, Alaska 99645

PH: (907) 745-9831
Fax: (907) 746-5769
Cell: (907) 355-7499
cbraun@matsugov.us



Alaska District

Office Symbol: CO-R-S
Regulatory Branch

Phone: (907) 753-2724
FAX: (907) 753-5567

U.S. Army Corps of Engineers Facsimile Header Sheet

To:

<input checked="" type="checkbox"/>	EPA Environmental Protection Agency	FAX #271-3424
<input checked="" type="checkbox"/>	USFWS U.S. Fish and Wildlife Service	FAX #271-2786
<input checked="" type="checkbox"/>	NMFS National Marine Fisheries Service	FAX #271-3030
<input type="checkbox"/>	FAA Federal Aviation Admin (NWP 7 only)	FAX #271-2851
<input checked="" type="checkbox"/>	ADNR-OPMP-Coastal Management	FAX #269-3981
<input type="checkbox"/>	Lake & Peninsula Borough	FAX #246-6602
<input checked="" type="checkbox"/>	ADNR-SHPO Historic Preservation Officer	FAX #269-8908
<input checked="" type="checkbox"/>	ADNR- OHMP Division of Habitat	FAX #269-3673
<input checked="" type="checkbox"/>	ADNR DMLW Div. of Mining, Land, and Water	FAX #269-8913
<input type="checkbox"/>	KRC Kenai River Permit Center	FAX #(907) 260-5992
<input checked="" type="checkbox"/>	ADEC Dept. of Environmental Conservation	FAX #269-7508
<input type="checkbox"/>	MOA Municipality of Anchorage-Planning	FAX #343-7927
<input checked="" type="checkbox"/>	Applicant / Agent: 907-495-6800	FAX #

Nationwide Permit Pre-Construction Notification

Corps of Engineers Identification: POA-2004-753-D-Willow Lake

Applicant: Willow Area Community Organization, Jim Houston

In response to our receipt of the enclosed Pre-Construction notification for the proposed activity under Nationwide Permit (NWP) #14 Linear Transportation Crossings you are hereby notified of the proposed project. The proposed activity and notification information is described in the enclosed documents. Please provide your agency comments at this time. Further information concerning the NWP(s) can be found at our web site: <http://www.poa.usace.army.mil/reg>.

All agencies have until June 25, 2004 (10 calendar days) to contact the Corps by telephone or by FAX if substantive, site-specific comments will be provided whereby additional time is necessary. If so contacted, we will wait an additional 15 calendar days before making a permit decision. We will fully consider agency comments received within the specified time frame, but will provide no response to the resource agency.

We are requesting the U.S. Fish and Wildlife Service and the National Marine Fisheries Service to review and comment concerning any likely affect to any threatened or endangered species or their critical habitat.

Please contact Irvin Joy or Vandl Leheny at the number listed above.

Project Description:

To construct an extension of the bike trail that runs parallel to the Parks Highway in front of the Willow Community Center. The extension would run from the existing bike trail to the Willow Community Center parking lot for a distance of approximately 200 feet. The trail itself would be 8 feet wide with slopes of 2:1; footprint width would be 24 feet. The area of fill would be 4,800 square feet/.11 acres. The volume of fill would be 711 cubic yards. Equipment and materials are on site (for a limited period of time). Work will commence immediately upon the authorization of this Nationwide.

Comments:

We would appreciate it if you would **PLEASE EXPEDITE**, as soon as possible. Comments can be sent via email to vandl.leheny@poa02.usace.army.mil

STRM Location: S. 8, T. 19 N., R. 4 W., S.M.

Physical Location: Willow Community Center, Willow, AK

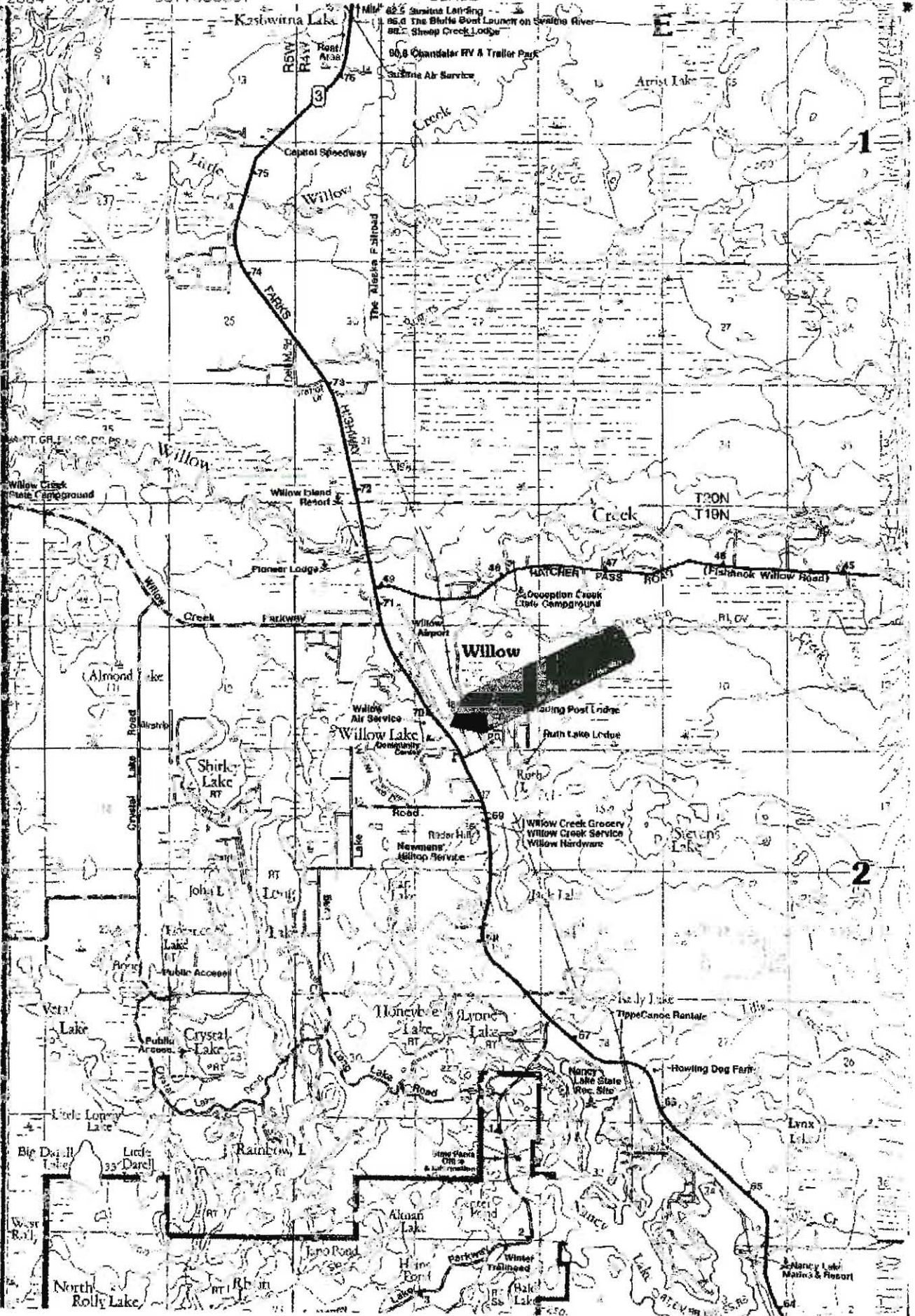
Releaser's Signature:

A. Vandl Leheny

#2 Pages + Cover = 3 Total

Date:
June 16, 2004

This is copy of the Corps permit from 2004 when we successfully added a bike trail ~~along~~ ^{through} the wet lands in front of the Community center. st D.O.T. efforts did not fully alleviate problems of flooding. A drain field would benefit D.O.T. right of way and Borough property. A drain field would allow the area to become a year round recreation area, as well as a convenient disposal area of other problem material



1

2

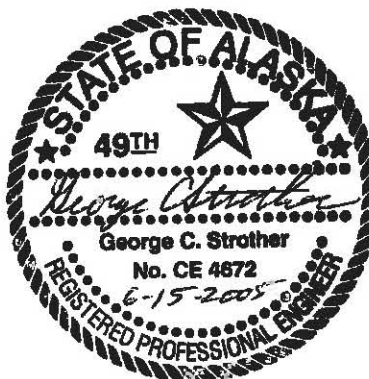
**REVIEW OF DRAINAGE DITCH
FROM WILLOW COMMUNITY BUILDING
TO WILLOW AIR SERVICE
STA 44+230 TO STA 45+610 LEFT
PARKS HIGHWAY IM-OA-1(15)/52320
MP 67 - 72 White's Crossing to Willow**

For

State of Alaska, Department of Transportation and Public Facilities

By George C. Strother, P.E., P.L.S.

June 15, 2005



ALTERNATIVES:

- I. Do Nothing: Leaving the culvert blocked with dirt could reduce the flow to the north, but eventually the dirt may erode out, causing a large rate of flow during spring run off, flooding the areas to the north of the WAS access. An open culvert may help WACO in their desire to drain the pond, but they acknowledge the adverse flooding to the north. Dirt may have to be replaced annually by ADOT maintenance crews.
- II. Remove the fire station access culvert and fill the ditch: This would restore the area to the original condition. This may satisfy the White and Stanger, and reduce the drainage towards their lots. WACO would not be satisfied with the removal of the drainage, and they may try again to bring political pressure to maintain the ditch. Digging the ditch costs \$50,000, but the refilling and removal of the culvert would cost several times that, with the importing of fill, and paving patching that would be needed.
- III. Install a locked weir on the fire station access culvert: A weir on this culvert could block or regulate the flow out of the pond. If an effective ditch north of WAS access was installed, a weir may slowly lower the pond. The pond area would need to be kept low as a storm water retention basin. If there was flooding or glaciation to the north, this weir could be closed. The lock and flow adjustment should be under the control of ADOT personnel.
- IV. Install french drains around the pond: This will require COE permit. Test holes would be needed to determine if there are soils that would accept drainage. Water injected into the subsurface may daylight somewhere rather than the lake. WACO is considering doing this construction. This should not be performed by ADOT/PF, but by the property owner or their agents, as they are ones that want to reduce the pond water level.
- V. Build a ditch to Willow Lake south of the WAS access: A ditch parallel to on the south side of the access, could divert water from the WCB pond overflow to the lake. There is small vegetated area that is currently ponding water that would offer some filtration. But this ditch would not handle the ponded water south of the access nor the water that would drain off the developed lots.
- VI. Rebuild the ditch north of WAS access: Remove the berm on the west side of the existing ditch so that water from the lease lots can easily access the ditch. The ditch can flow from the culvert under the WAS access to Willow Lake either:
 - A. South side of LL 5, with a 155 meter route at 0.65%, or
 - B. Past LL 5 through LL4 to the grass wet lands with a 235 meter route at 0.43%,The grass wet lands are slightly higher than the lake level, and expected soft organic soils would make this route very difficult to build accurately. Route A would be easier to build and have a better grade, even though it is still quite flat.

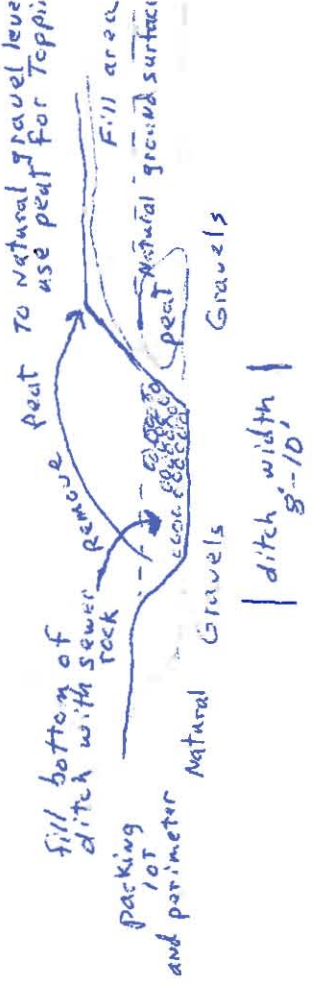
Area in this water

Quality can be water is gone



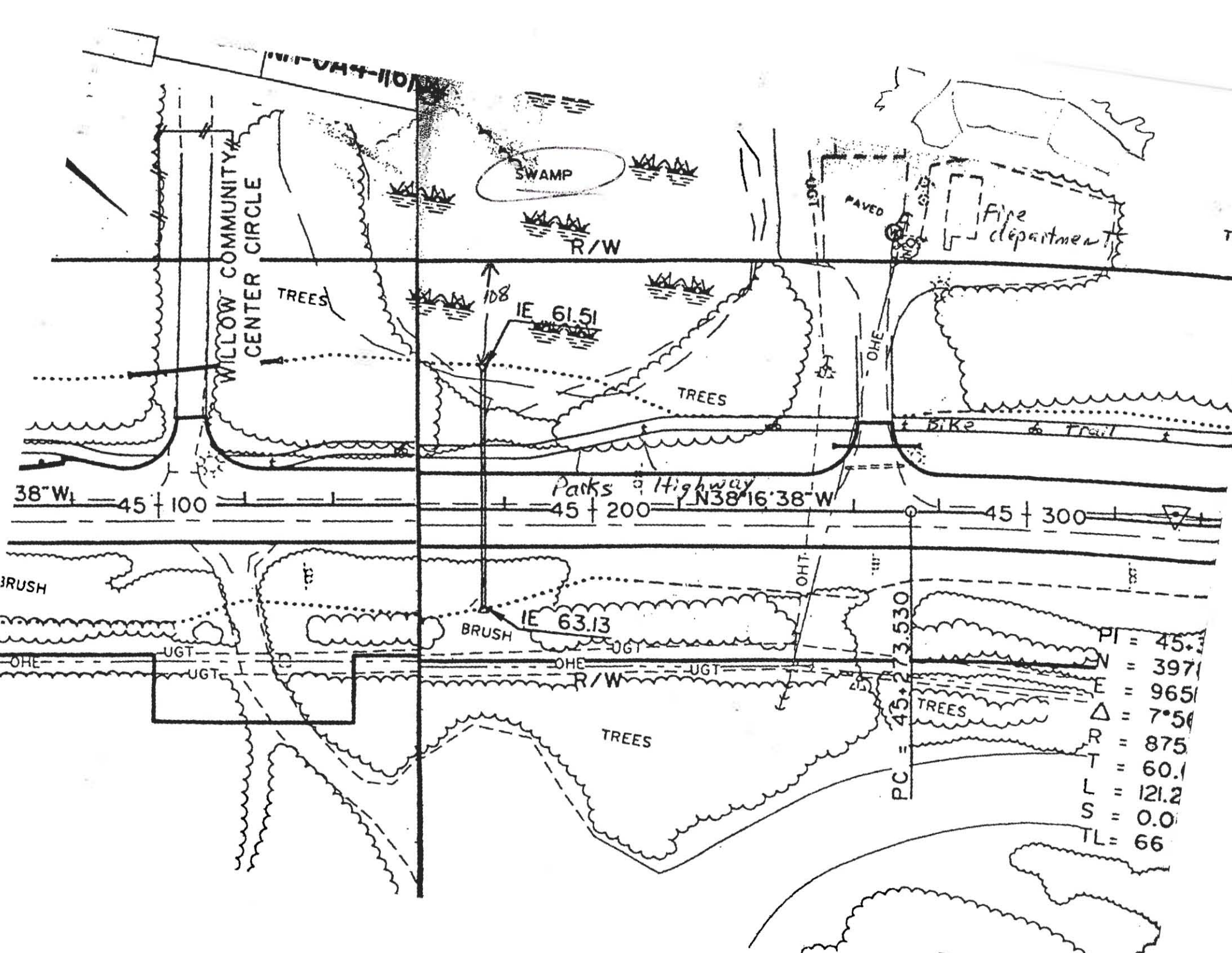
Highway right of way - - - - -
 wet lands fill _____
 Drain ditch ~~~~~~

X Test holes show 5' depth of peat



Aerial photos





WILLOW COMMUNITY CENTER CIRCLE

SWAMP

Fire department

IE 61.51

TREES

Parks & Highway

38°W 45 + 100

N38°16'38"W 45 + 200

45 + 300

IE 63.13

BRUSH

R/W

TREES

PC = 45 + 273.530

PI = 45.3
 N = 397
 E = 965
 $\Delta = 7^{\circ}56'$
 R = 875
 T = 60.1
 L = 121.2
 S = 0.0
 TL = 66

Fire department



Community Center



Flooding view from
Community Parking lot