

ME DOT

Biddeford Connector

File No.: 198700216

City and State: Biddeford, ME

General Impacts:

- 0.35 acre non-tidal open water
- 0.16 acre non-tidal emergent
- 2.59 acres non-tidal scrub-shrub

Functions and Values Lost: Unable to tell from file.

Year(s) Mitigation Constructed: June 1989

Size and Type of Mitigation as Proposed: 2.3 acres non-tidal emergent

Proposed Functions and Values of Mitigation: (From Mitigation Plan)

- Floodflow Alteration
- Sediment Retention
- Wildlife Habitat

Mitigation Special Condition(s):

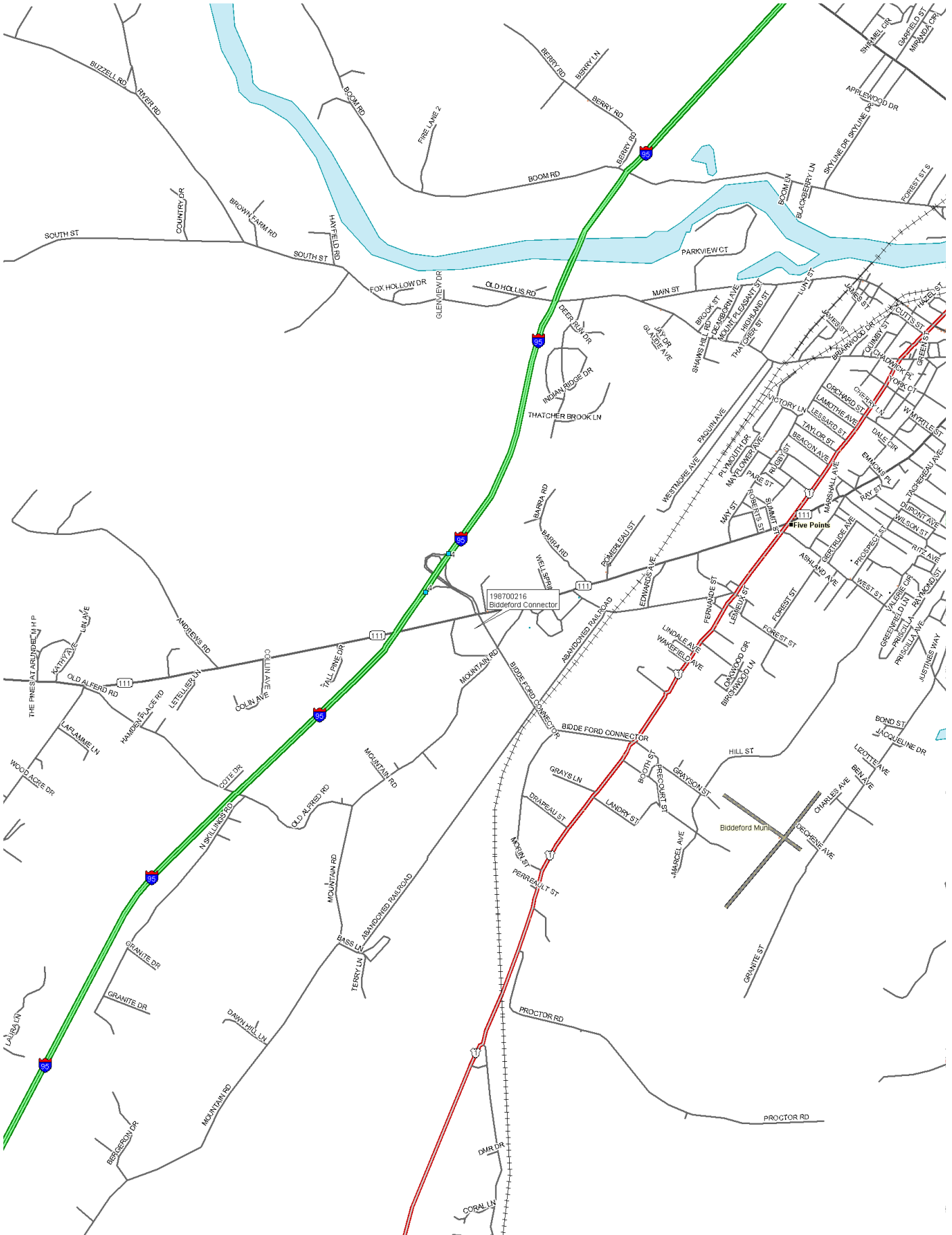
2. The applicant will provide a detailed mitigation plan to address the project's net loss of 2.4 acres of wetlands. This will be submitted by October 16, 1987 for corps of Engineers and federal resource agency review and approval. The goal of the plan is 1:1 mitigation for wetland values lost.

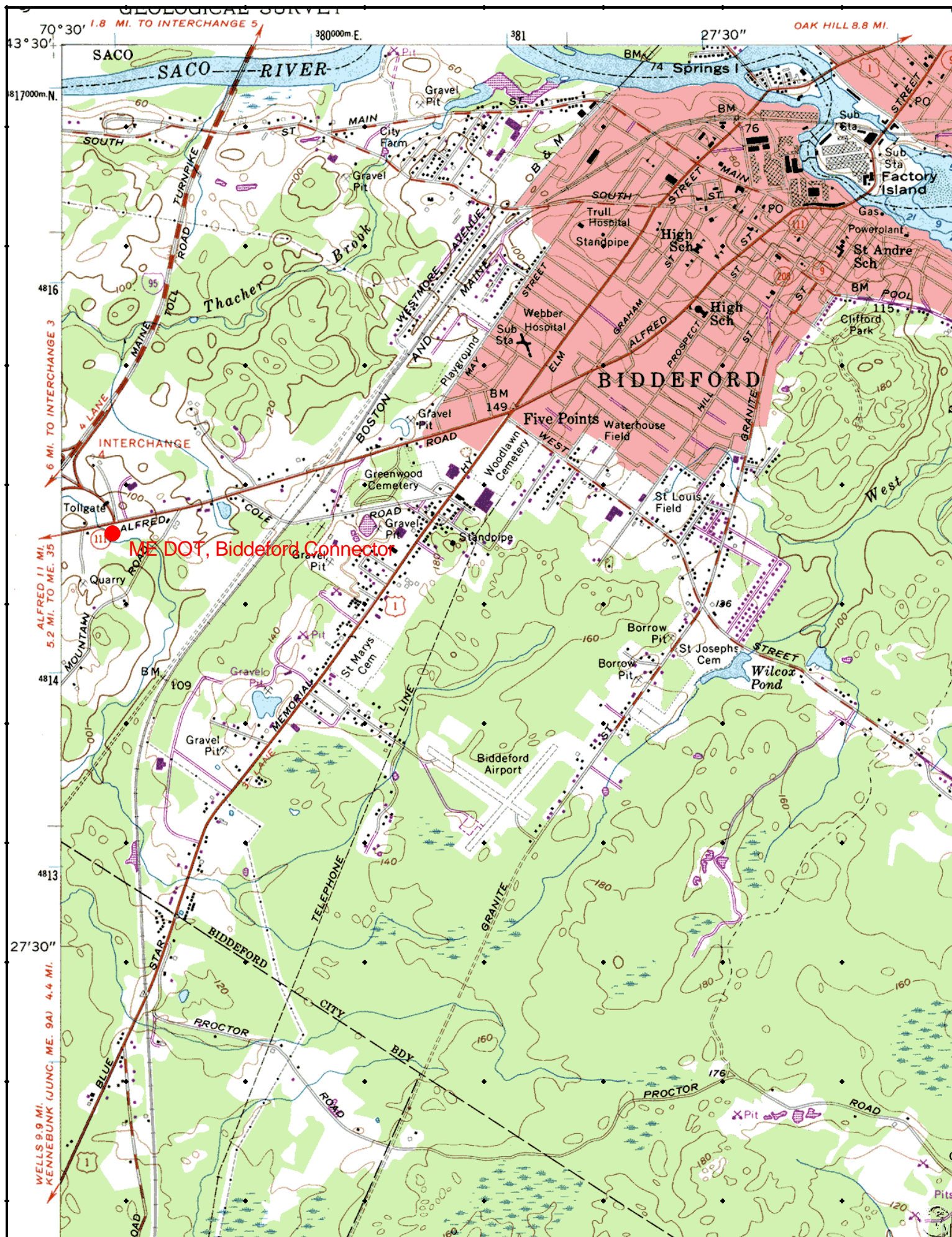
Remarks:

None

Directions:

Take 128/95 north towards Peabody/Portsmouth, NH. When road splits, bear right onto Route 95 north. Take exit 4, ME-111 towards Biddeford. ME-111 becomes Alfred Street.





MITIGATION SITE FIELD DATA FORM

Site Name: Biddeford Connector File No. 198700216

City/Town: Biddeford State: ME Waterbody: n/a

Monitor(s): Tischbein, Wright, Minkin, McKee, Clement Date: 7-30-02

Was site constructed? yes

Is site wetland? yes

Size of proposed wetland: 2.3 acres

Actual size of wetland: less – Basin 3 is dry

Landscape position: middle – below highway, above Richardson brook.

Lat/Long Points: 43.47277N 70.49258W

Saved GPS Waypoint name: Bidde, BID

GPS Tracking Log Name: N/A

Perimeter: TBD

Surrounding land use: N/A

Is wetland function compromised by surrounding land use?

No, drainage from road is diverted from wetland and some basins surrounded by berms.

Plant health:

Good

Invasive species:

Lythrum salicaria, Phalaris arundinacea, Typha latifolia

Wildlife use:

Goldfinch, red-winged black bird

Plants:

Basin 4 edge

Acer rubrum

Alnus rugosa

Carex sp.

Cornus sp.

Galium sp.

Juncus tenuis

Lythrum salicaria

Malus sp.

Onoclea sensibilis

Phalaris arundinacea

Pinus strobus

Potentilla sp.

Rubus sp.

Scirpus atrovirens

Solidago sp.

Viburnum dentatum

Basin 4 wetter area

Carex crinita

Carex sp.

Carex vulpinoidea

Cicuta maculata (water hemlock)

Galium sp.

Glyceria sp.

Impatiens capensis (jewelweed)

Juncus effusus

Lysimachia terrestris (yellow loosestrife)

Lythrum salicaria

Phalaris arundinacea

Scirpus atrovirens

Scirpus cyperinus

Solanum dulcamara (bittersweet nightshade)

Sparganium sp.

Typha latifolia

Basin 1

Acer rubrum
Cornus stolonifera
Juncus effusus
Polygonum sagittatum
Salix sp.
Scirpus cyperinus (approx 10%)
Sparganium sp. (approx 80-90%)
Typha latifolia

Basin 2

Acer rubrum
Alisma sp.
Carex stricta
Cornus stolonifera
Fraxinus pennsylvanica
Juncus effusus
Lythrum salicaria (trace)
Populus tremuloides
Scirpus cyperinus
Sparganium sp.
Spiraea latifolia
Typha latifolia

Basin 6

Carex lurida
Carex sp. (ovales)
Carex stricta
Cornus amomum
Equisetum sp.
Eupatorium maculatum
Euthamia graminifolia
Galium sp.
Juncus effusus
Lysimachia terrestris
Mentha piperita
Polygonum sagittatum
Prunella vulgaris (heal-all)
Salix discolor
Scirpus microcarpus
Solidago spp.

Spiraea latifolia
Spiraea tomentosa

Basin 8

Carex lurida
Cicuta maculata
Equisetum sp.
Juncus effusus
Ludwigia palustris
Lythrum salicaria
Phragmites australis (not much)
Potamogeton sp. on water
Scirpus atrovirens
Scirpus cyperinus
Sparganium sp.
Typha latifolia

Basin 7

Alnus rugosa
Juncus effusus
Salix sp.
Scirpus atrovirens
Sparganium sp.
Typha latifolia (few)

Basin 3

Agropyron sp.
Cornus stolonifera
Fraxinus pennsylvanica
Populus deltoides

Basin 5

Alisma sp.
Carex crinita
Cicuta maculata
Cornus amomum
Eleocharis sp.
Juncus effusus
Juncus sp.
Lysimachia terrestris
Lythrum salicaria
Scirpus validus
Sparganium sp.
Typha latifolia (dominant)

Soils Data:

Soils data not collected at this site.

Sketch approximate mitigation site, noting areas and types of wetlands, waters, other features, landscape position, landmarks, etc., and data and photo point(s)

See file.

Overall Description of site:

Tischbein and Clement: "Thalweg channel put in brook to support fish during low water. Different top dressings (6 inches) were put into different basins (see map) as an experiment. SE basins (6,7,8) hydrologically challenged (well-drained). Richardson brook: 100-year floodplain. Wetland cells are detention basins. Was supposed to be mosaic of wetland pockets intermittent with upland. Basins are clay lined."

Basin 3 is dry –see photo.

Basin 4 has stained leaves, hummocky.

Highway runoff doesn't go into most of these; they're isolated due to berms.

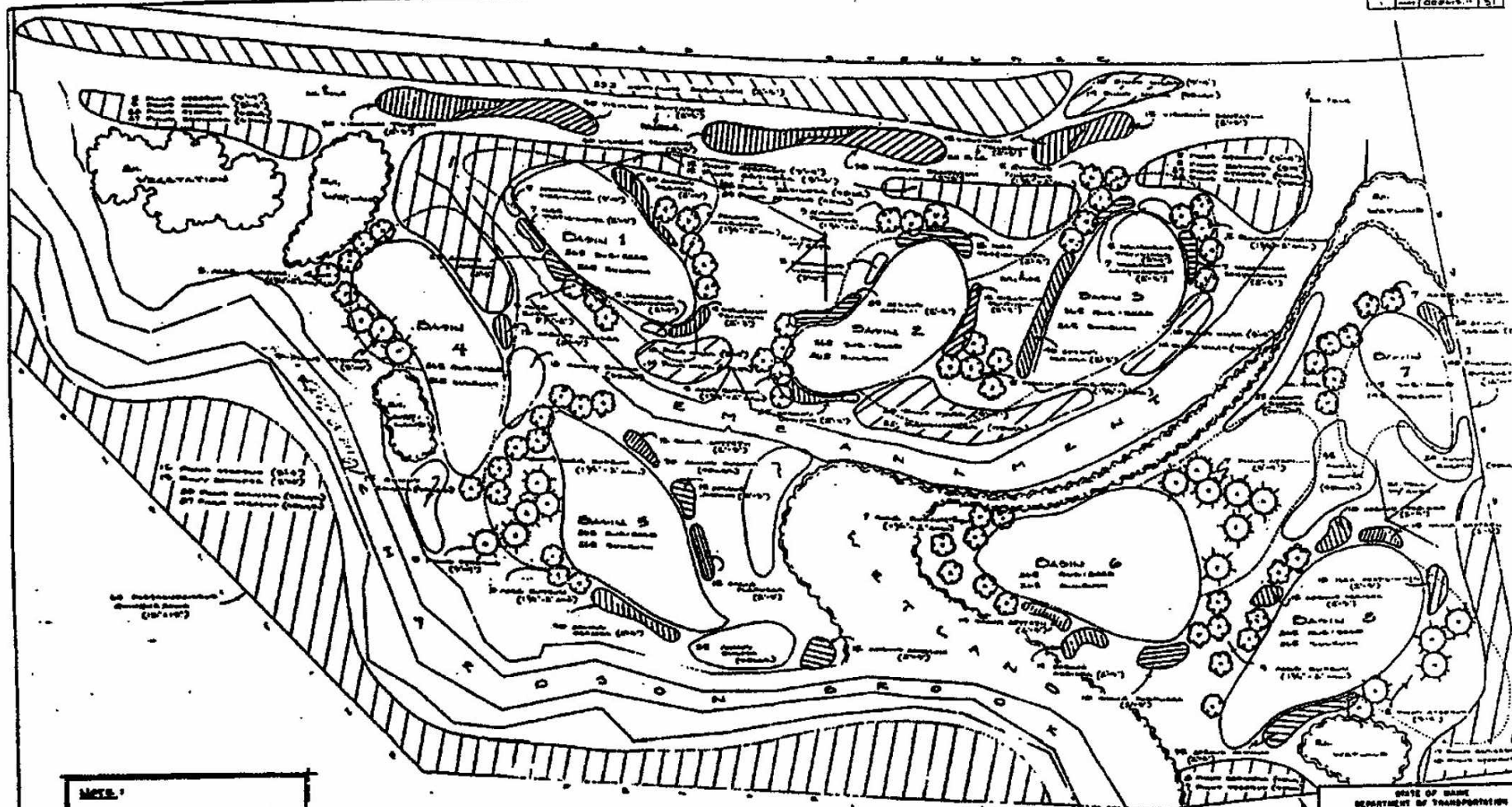
Cattails, reed canary grass (for nesting and escape cover for birds and small mammals), red osier dogwood, streamco willow, bankers willow, *Viburnum* sp., and alder were planted (according to the mitigation plan).

Monitoring was for 3 years during which soil moisture and vegetation replacement was to have taken place.

Monitoring reports were to have come in each year 91-94. 3 came in 93, 1 came in 95, 1 came in 97.

Comments, problems, recommendations:

Because project is old, reports were thrown away. Only photos and plans in the file.



NOTES:

The following notes are to be read in connection with the plan and should be read in the order in which they are numbered.

1. All plantings are to be made in accordance with the specifications of the Maine Department of Transportation.

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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

**BIDDEFORD
PLANTING
PLAN**

E. J. DOUGLAS, II

SHEET 24 OF 25. MAINTENANCE

Wetland Function-Value Evaluation Form

Total area of wetland <2.3 ac Human made? yes Is wetland part of a wildlife corridor? no or a "habitat island"? _____

Adjacent land use highway, brook, upland Distance to nearest roadway or other development 50 feet

Dominant wetland systems present PEM Contiguous undeveloped buffer zone present no

Is the wetland a separate hydraulic system? yes If not, where does the wetland lie in the drainage basin? _____

How many tributaries contribute to the wetland? 0 Wildlife & vegetation diversity/abundance (see attached list)

ME DOT – Biddeford
Wetland I.D. Connector 198700216













Latitude N43.47277 Longitude W70.49258

Prepared by: KM KW PM Date 7/30/02

Wetland Impact:
Type _____ Area _____

Evaluation based on:
Office _____ Field X

Corps manual wetland delineation
completed? Y _____ N X

Function/Value	Suitability Y N		Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
 Groundwater Recharge/Discharge	X		4,5,6		recharge
 Floodflow Alteration		X			
 Fish and Shellfish Habitat		X			
 Sediment/Toxicant Retention		X			
 Nutrient Removal		X			
 Production Export		X			
 Sediment/Shoreline Stabilization		X			
 Wildlife Habitat	X			X	
 Recreation		X			
 Educational/Scientific Value		X			
 Uniqueness/Heritage		X			
 Visual Quality/Aesthetics		X			
ES Endangered Species Habitat		X			
Other					

Notes:

* Refer to backup list of numbered considerations.

198700216
MEDOT Biddeford Connector
Biddeford, ME
7/30/02



Entrance – facing SE



Basin 2



Basin 3 - Dry



Basin 4



Basin 5



Basin 6



Basin 7



Basin 8

USGS Biddeford, Maine, United States 29 Apr 1998



0 100M

0 100yd

Image courtesy of the U.S. Geological Survey
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