



APPLICATION FOR PERMIT EAST LYME INLAND WETLANDS AGENCY

Office Use Only		
Fee Paid \$ <u>60</u>	Date Submitted <u>10/9/24</u>	Application # _____
Date of Receipt _____	Date Approved _____	Permit Number _____
Major Impact: YES NO Public Hearing: YES NO Agent Approved: YES NO		

Note: In accordance with the Inland Wetland and Watercourses Regulations, Eleven (11) copies of all application materials must be submitted.

1. SITE LOCATION (Street) and Description: LAKE SHORE DR.
 Assessor's Map 4.10 Lot # 86

Note: It is the applicant's responsibility to provide the correct site address, map/lot number for the legal notice. Provide a description of the land in sufficient detail to allow identification of the inland wetlands and watercourses, the area(s) (in acres or square feet) of wetlands and watercourses to be disturbed, soil type(s), and wetland vegetation.

2. APPLICANT: GIANTS NECK BEACH ASSOCIATION INC 1941
 Address: P.O. BOX 226 Phone: 860 334 4991
NIANTIC CT. 06357 Fax: _____
 Business: PAUL FORMICA - PRESIDENT Cell: _____
 Email: pformica@gmail.com
 Applicant's interest in the land: LESSOR

**If the applicant is a Limited Liability Corporation or a Corporation provide the managing member's or responsible corporate officer's name, address, and telephone number.

3. OWNER: GIANTS NECK IMPROVEMENT CLUB INC.
 Address: C/O IRENE MAKIARIS Phone: 860 836 8857
41 WEST PATRAGANSETT RD. Fax: _____
 Email: IP.MAKIARIS@MAKIARISMEDIA.COM Cell: 860 836-8857.

**As the legal owner of the property listed on this application, I hereby consent to the proposed activities. And I hereby authorize the members and agents of the Agency to inspect the subject land, at reasonable times, during the pendency of the application and for the life of the permit.

Owners Printed Name: IRENE P. MAKIARIS
 Owners Signature: Irene P. Makiaris Date: 10/6/2027.

10. Attach a completed DEP reporting form.

The Agency shall revise or correct the information provided by the applicant and submit the form to the Commissioner of Environmental Protection in accordance with section 22a-30-14 of the Regulations of Connecticut State Agencies.

11. Name of Erosion Control Agent (Person Responsible for Compliance):

JAMES BEAULIEU
Address: 29 GRISWOLD rd. Phone: 860 739 4194
NIANTIC CT. 06357 Fax: _____
Email: oceanmom41945@gmail.com Cell: _____

12. Are you aware of any wetland violations (past or present) on this property? Yes No

If yes, please explain: _____

13. Are there any vernal pools located on or adjacent (within 500') to the property? Yes No

14. For projects that do not fall under the ACOE Category I general permit – Have you contacted the Army Corps of Engineers? Yes No

15. Is this project within a public water supply aquifer protection area or a watershed area? Yes No

16. If so, have you notified the Commissioner of the Connecticut Department of Public Health and the East Lyme Water and Sewer Department? Yes No (Proof of notification must be submitted with your application).

17. Attach the appropriate filing fee based on the fee schedule established in Section 19 of the Regulations.
Fee: _____ (Make checks payable to "Town of East Lyme").

18. PUBLIC HEARINGS ONLY: The applicant must provide proof of mailing notices to the abutters prior to the hearing date.

The undersigned Applicant hereby consents to necessary and proper inspection of the above mentioned property by the East Lyme Inland Wetlands Agency and/or its agents at reasonable times both before and after the permit in question has been granted.

The Applicant affirms that the information supplied in this application is accurate to the best of his/ her knowledge and belief. As the applicant I hereby certify that I am familiar with the information provided in this application and I am aware of the penalties for obtaining a permit through deception or through inaccurate or misleading information.

Printed Name: PAUL FORMICA Date: 10/2/24

Signature:  PAUL

Please note:

Above notice to be published in legal section of newspaper having general circulation in the Town of East Lyme. Applicant to pay cost of publication. You or a representative must attend the Inland Wetlands Agency meeting to present your application.

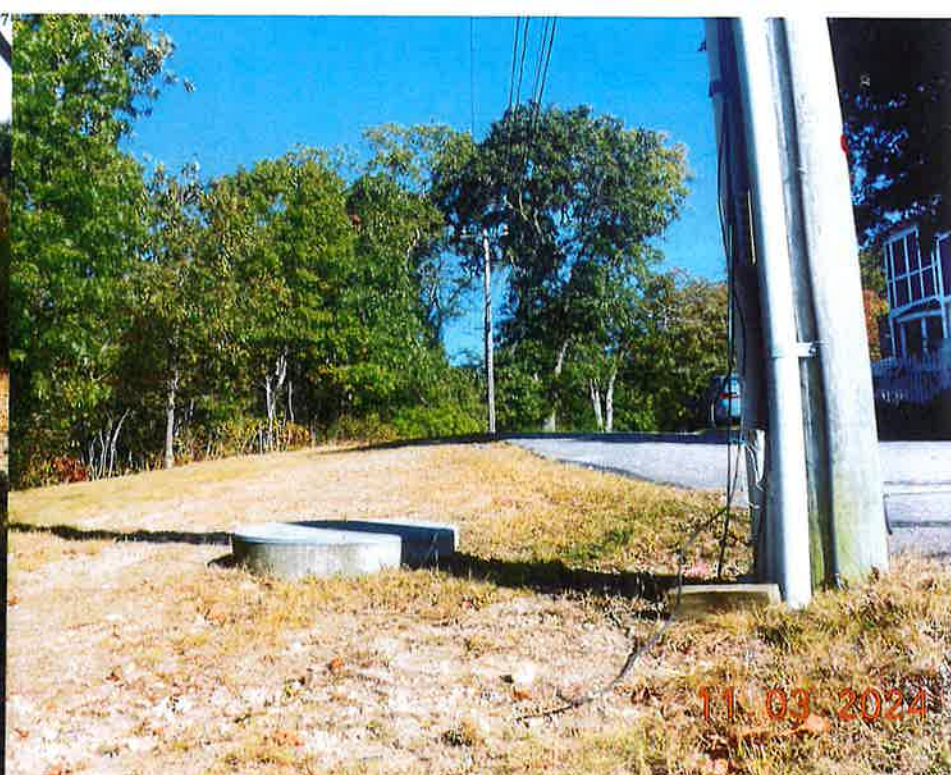
Lake Shore Drive Erosion and street run-off project

The Giants Neck Beach Association has approved monies to capture and redirect The street runoff along Lake Shore Dr. in an area opposite #7,11&13 Lake Shore Dr.

The area is within the street R.O.W. in the upland of the Lower Nehantic pond. Generally sited about CL&P Poles #1493 and #1494. The Project directs street runoff Along a 150 foot berm with a 60 foot long stone filled catchment in the lower end. The berm will be planted with low woody plants and flowering native lower plants. Two 4'x8' turf stone pass throughs will be located within the berm area. The area will be seeded west of the berm and Any areas disturbed by the work. When finished this project will reduce runoff into the pond as well as stabilize the street pavement in This area.

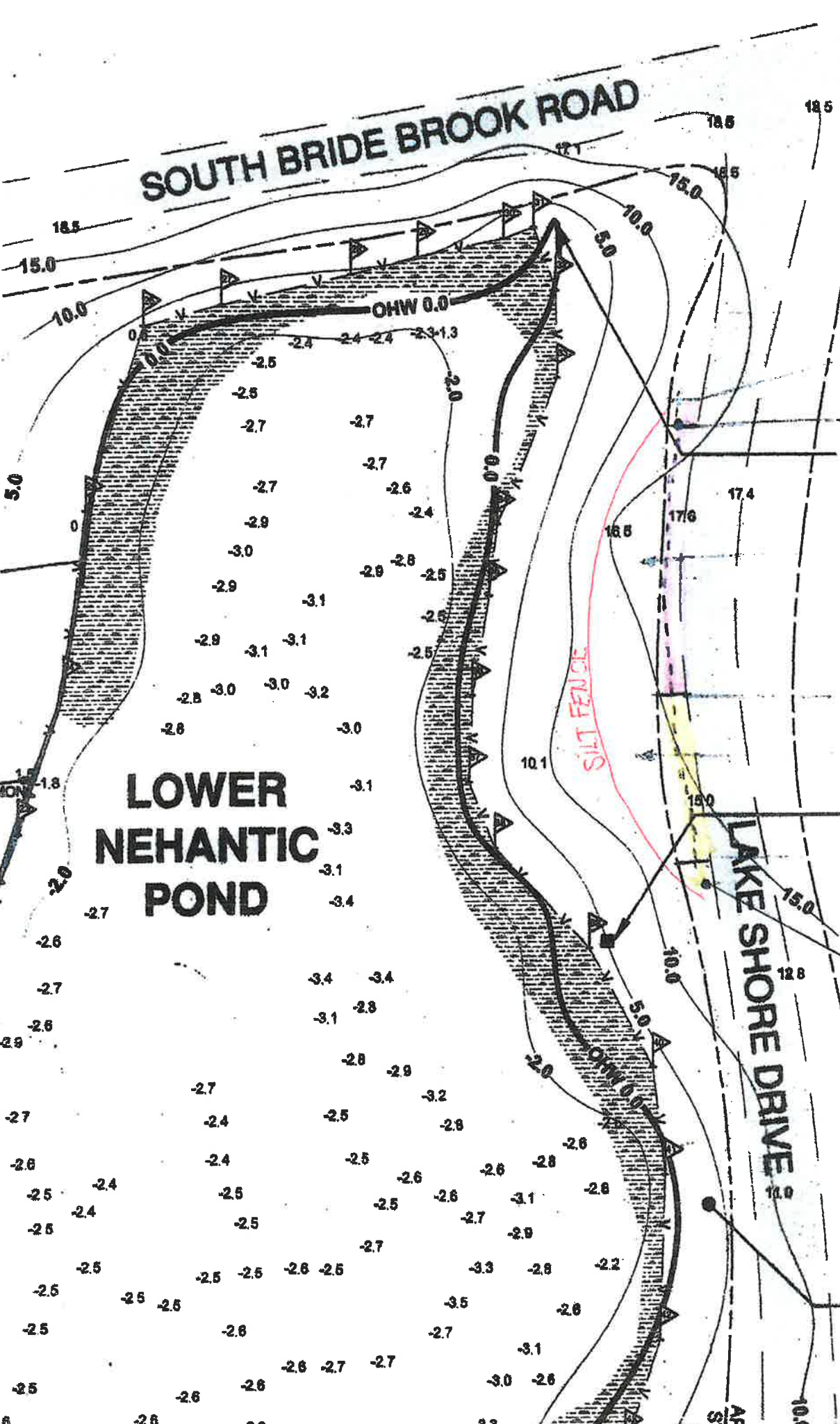
The open space below the berm can be restored once this sheet flow problem is Corrected.

Jim Beaulieu
Giants Neck Beach Association
Pond Committee Chair Person
9/12/24



SOUTH BRIDE BROOK ROAD

APPROXIMATE STREET LINE



LOWER NEHANTIC POND

90' BURM LIMIT
CL+P 1494

BLOCKED WATERWAY TO UPPER NEHANTIC POND

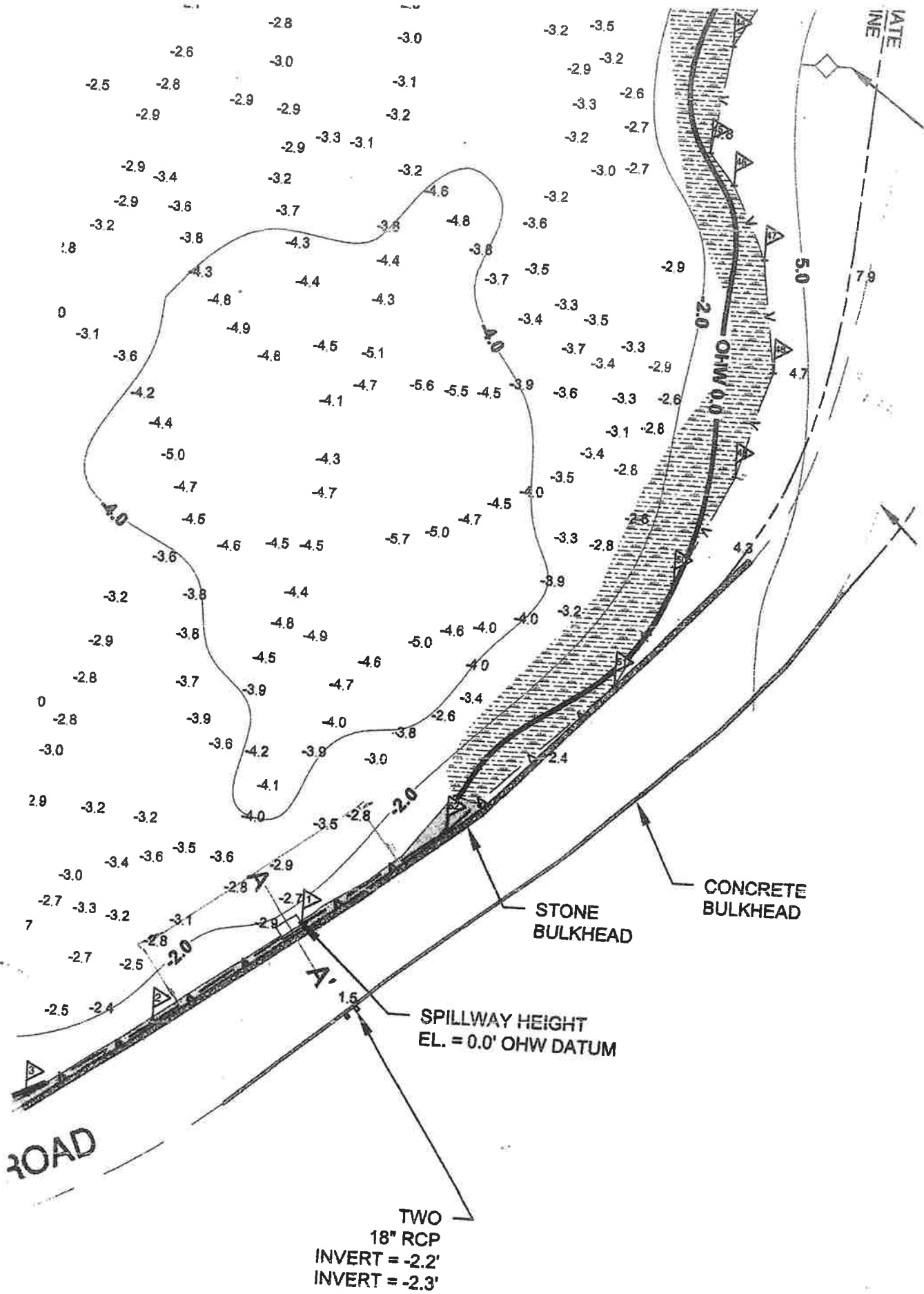
PATHWAY

60' RETENTION LIMIT
PATHWAY

POND AERATION COMPRESSOR
60' RETENTION LIMIT

CL+P 1493

N/F GIANTS NECK LAND IMPROVEMENT COM



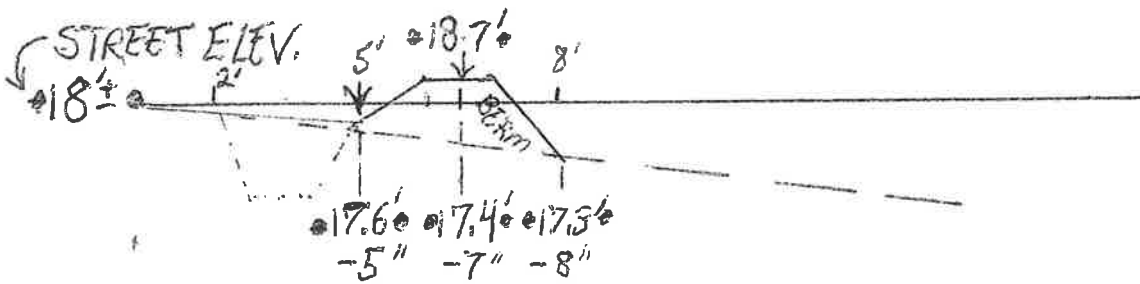
ELEVATION PLAN

• ALL ELEVATIONS ARE APPROXIMATED FROM SURVEY VALUES AND LINE LEVEL MEASUREMENTS OFF THE STREET.

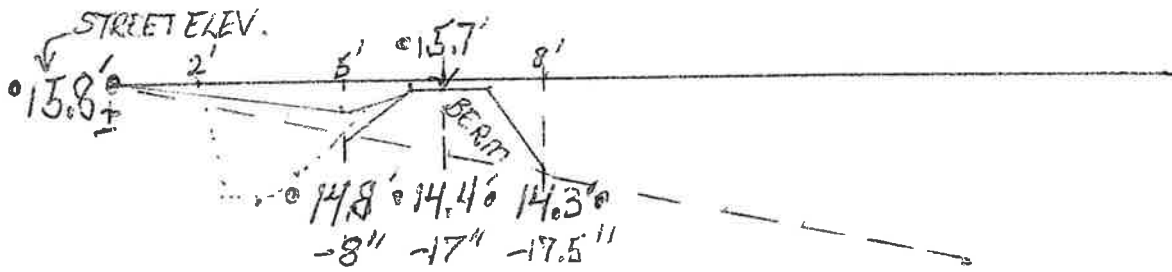
* STREET TO 5' SLOPE DROPS @ 1" PER FOOT. FOR THIS PROJECT: 5" ±

* 150' BERM FROM NORTH TO SOUTH DROPS APPROX. 3' 18" 4.6' (23.4')

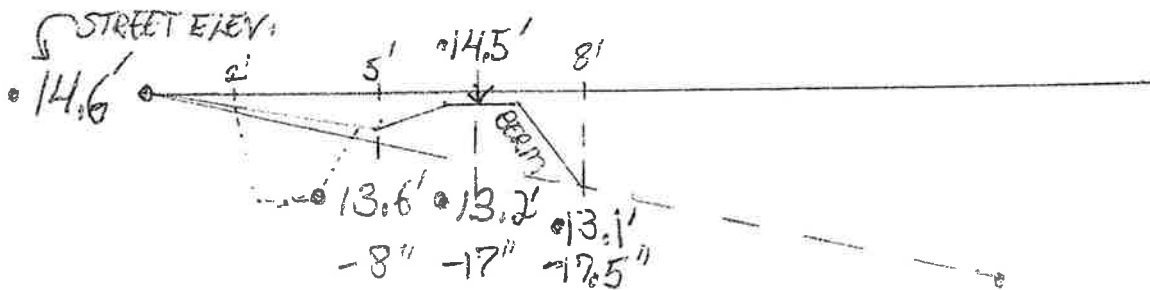
NORTH BERM LIMIT * "PINK"



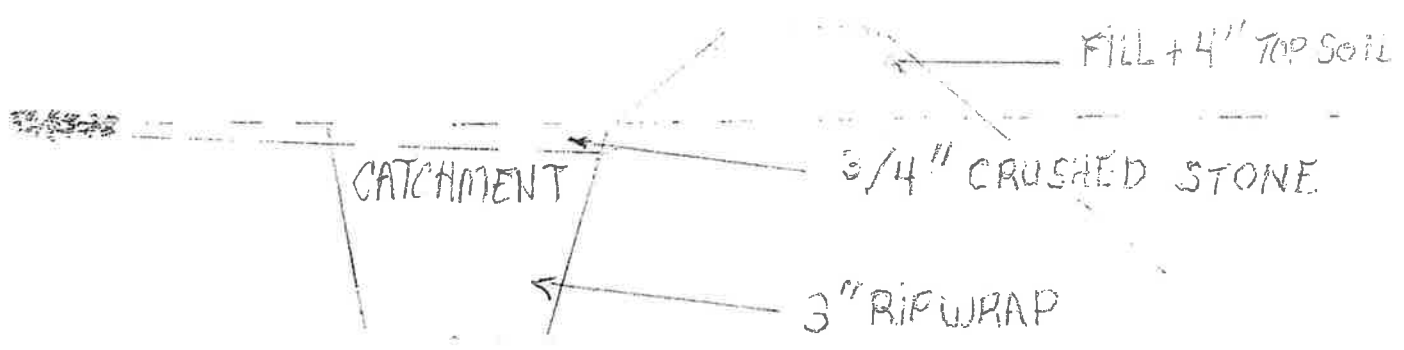
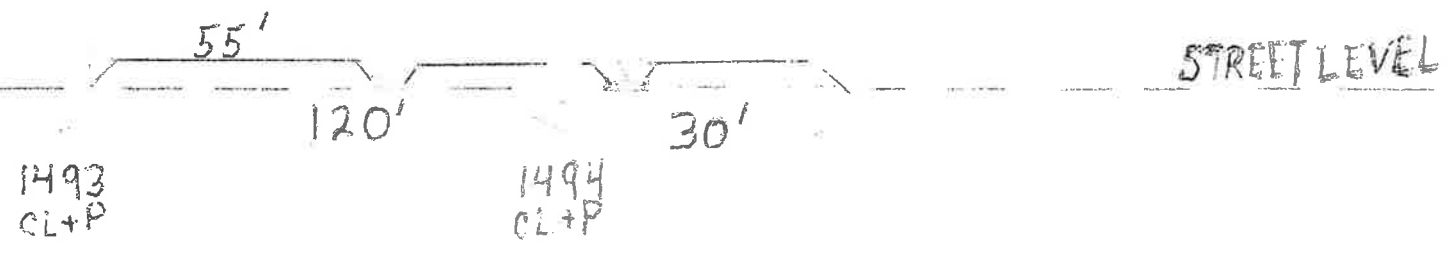
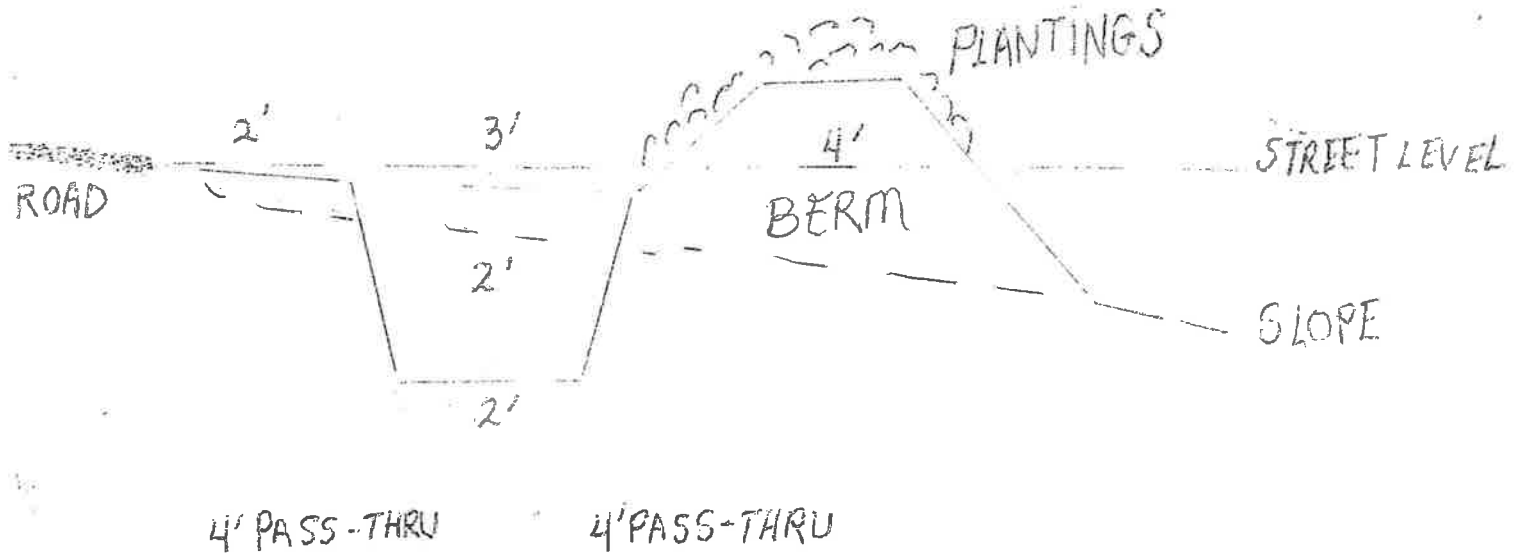
NORTH RETENTION CATCHMENT LIMIT * "YELLOW"



SOUTH RETENTION CATCHMENT LIMIT * "YELLOW"



LAKE SHORE dr



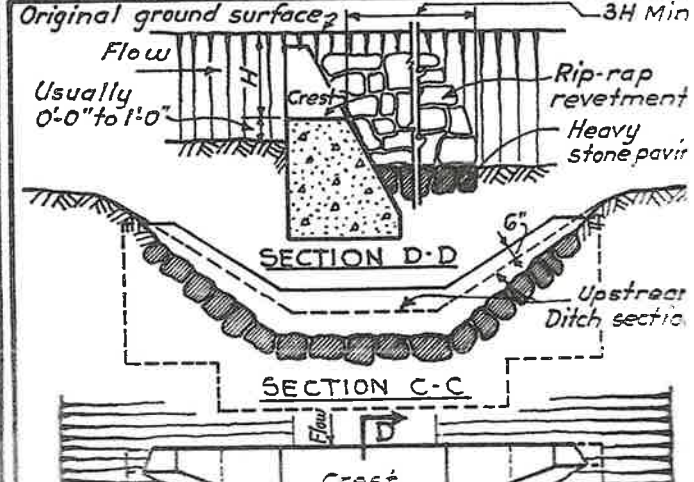
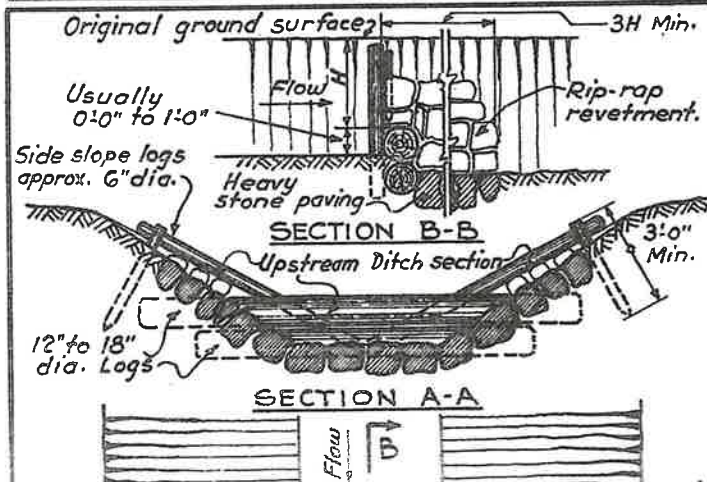
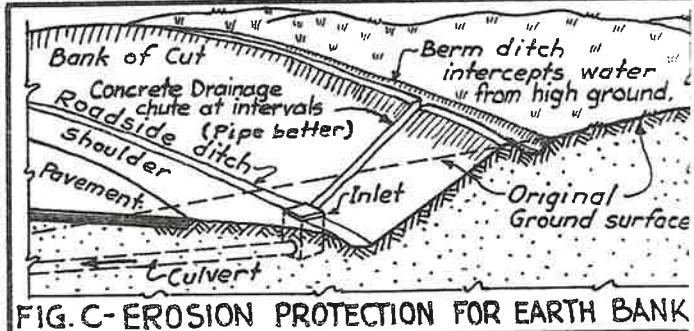
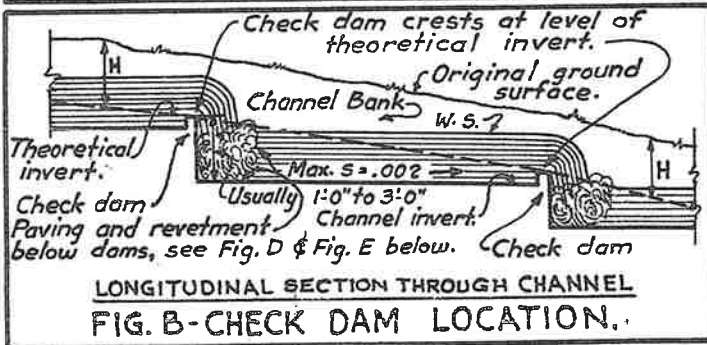
DRAINAGE - EROSION PROTECTION

TABLE A - MEAN VELOCITIES WHICH WILL NOT ERODE CHANNELS AFTER AGING.

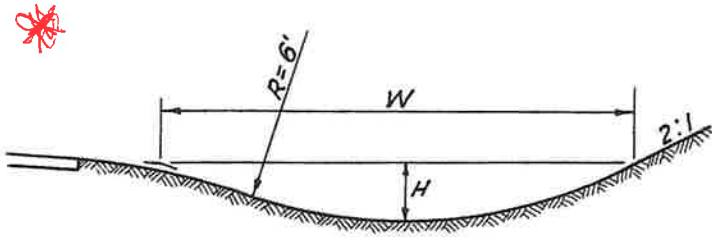
MATERIAL OF CHANNEL BED	VELOCITY IN FEET PER SEC	
	SHALLOW DITCH	DEEP * CANAL
Fine sand or silt, non-colloidal	0.50-1.50	1.50-2.50
Coarse sand or sandy loam, non-colloidal	1.00-1.50	1.75-2.50
Silty or sand loam " "	1.00-1.75	2.00-3.00
Clayey loam or sandy clay " "	1.50-2.00	2.25-3.50
Fine gravel	2.00-2.50	2.50-5.00
Colloidal clay or non-colloidal gravelly loam	2.00-3.00	3.00-5.00
Colloidal, well-graded gravel	2.25-3.50	4.00-6.00
*Pebbles, broken stone, shales or hardpan	2.50-4.00	5.00-6.50
Sodded gutters (See p.18-05)	3.00-5.00	—
Cobbled gutters, not grouted, or bituminous paving (See p.18-05)	5.00-7.50	—
Stone masonry	7.50-15.00	—
Solid rock or concrete	15.00-25.00	—

AGING OF CHANNELS increases resistance to erosion as density and stability of channel bed improve due to deposit of silt in interstices and as cohesion increases due to cementation of soil by colloids. New channels may be safely operated at less than maximum design velocities by use of temporary check structures.

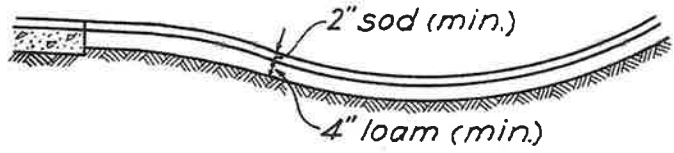
VELOCITIES are to be reduced for depths of flow under 6 inches and for water which may transport abrasive materials.



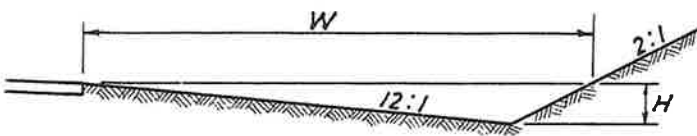
DRAINAGE- DITCHES - COMMON SECTIONS - I



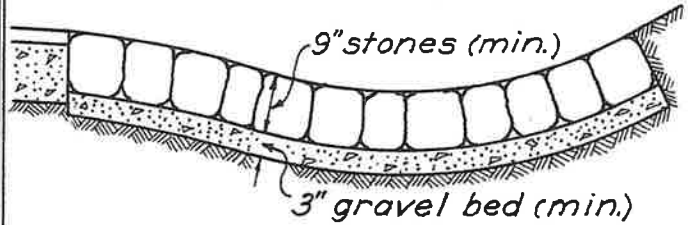
D-1 SEGMENTAL



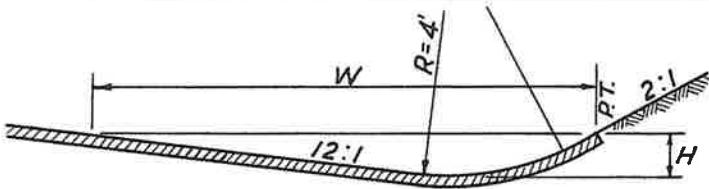
SODDED GUTTER



D-1A TRIANGULAR
Unequal side slopes



COBBLED GUTTER

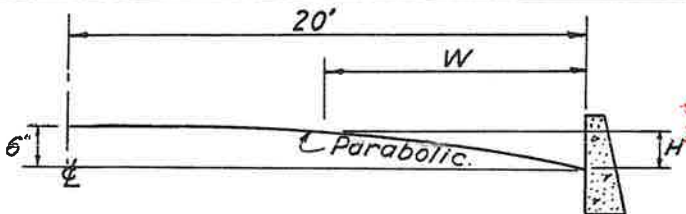


D-1B BITUMINOUS GUTTER

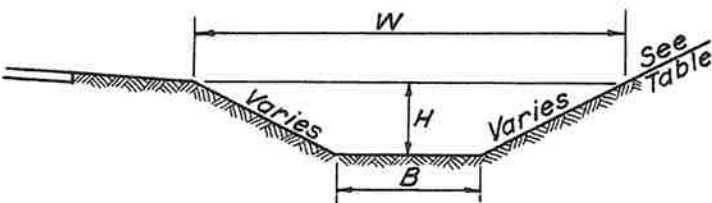


Base required same as for concrete pavement.

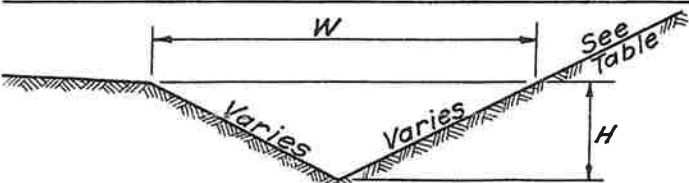
CONCRETE GUTTER



D-1C CURBED CROWNED STREET



D-2, D-3, D-4, D-5 TRAPEZOIDAL



D-6, D-7, D-8, D-9, D-10, D-11
ISOSCELES TRIANGULAR
D-9, D-10 and D-11 - Airport ditches

TABLE A - PROPERTIES OF DITCHES.

NO.	DIMENSIONS				HYDRAULICS			
	SIDE SLOPES	B	H	W	a	p	R	R ^{2/3}
D-1	—	—	6 1/2"	5'-0"	1.84	5.16	0.356	0.502
D-1A	12:1 & 2:1	—	6"	7'-0"	1.75	7.14	0.245	0.392
D-1B	12:1 & 2:1	—	5'±	7'-0"	1.64	7.08	0.232	0.377
D-1C	1/2 to 1'-0"	—	4.5"	10'-0"	1.68	10.38	0.162	0.297
D-2A	1 1/2:1	2'-0"	1'-0"	5'-0"	3.50	5.61	0.624	0.730
B	2:1	2'-0"	1'-0"	6'-0"	4.00	6.47	0.618	0.726
C	3:1	2'-0"	1'-0"	8'-0"	5.00	8.32	0.601	0.712
D-3A	1 1/2:1	3'-0"	1'-6"	7'-6"	7.88	8.41	0.937	0.958
B	2:1	3'-0"	1'-6"	9'-0"	9.00	9.71	0.927	0.951
C	3:1	3'-0"	1'-6"	12'-0"	11.25	12.49	0.901	0.933
D-4A	1 1/2:1	3'-0"	2'-0"	9'-0"	12.00	10.21	1.175	1.114
B	2:1	3'-0"	2'-0"	11'-0"	14.00	11.94	1.173	1.112
C	3:1	3'-0"	2'-0"	15'-0"	18.00	15.65	1.150	1.097
D-5A	1 1/2:1	4'-0"	3'-0"	13'-0"	25.50	14.82	1.721	1.436
B	2:1	4'-0"	3'-0"	16'-0"	30.00	17.42	1.722	1.437
C	3:1	4'-0"	3'-0"	22'-0"	39.00	22.97	1.698	1.423
D-6A	2:1	—	1'-0"	4'-0"	2.00	4.47	0.447	0.584
B	3:1	—	1'-0"	6'-0"	3.00	6.32	0.475	0.609
D-7A	2:1	—	2'-0"	8'-0"	8.00	8.94	0.895	0.929
B	3:1	—	2'-0"	12'-0"	12.00	12.65	0.949	0.965
D-8A	2:1	—	3'-0"	12'-0"	18.00	13.42	1.341	1.216
B	3:1	—	3'-0"	18'-0"	27.00	18.97	1.423	1.265
D-9	7:1	—	1'-0"	14'-0"	7.00	14.14	0.495	0.626
D-10	7:1	—	2'-0"	28'-0"	28.00	28.28	0.990	0.993
D-11	7:1	—	3'-0"	42'-0"	63.00	42.43	1.485	1.302