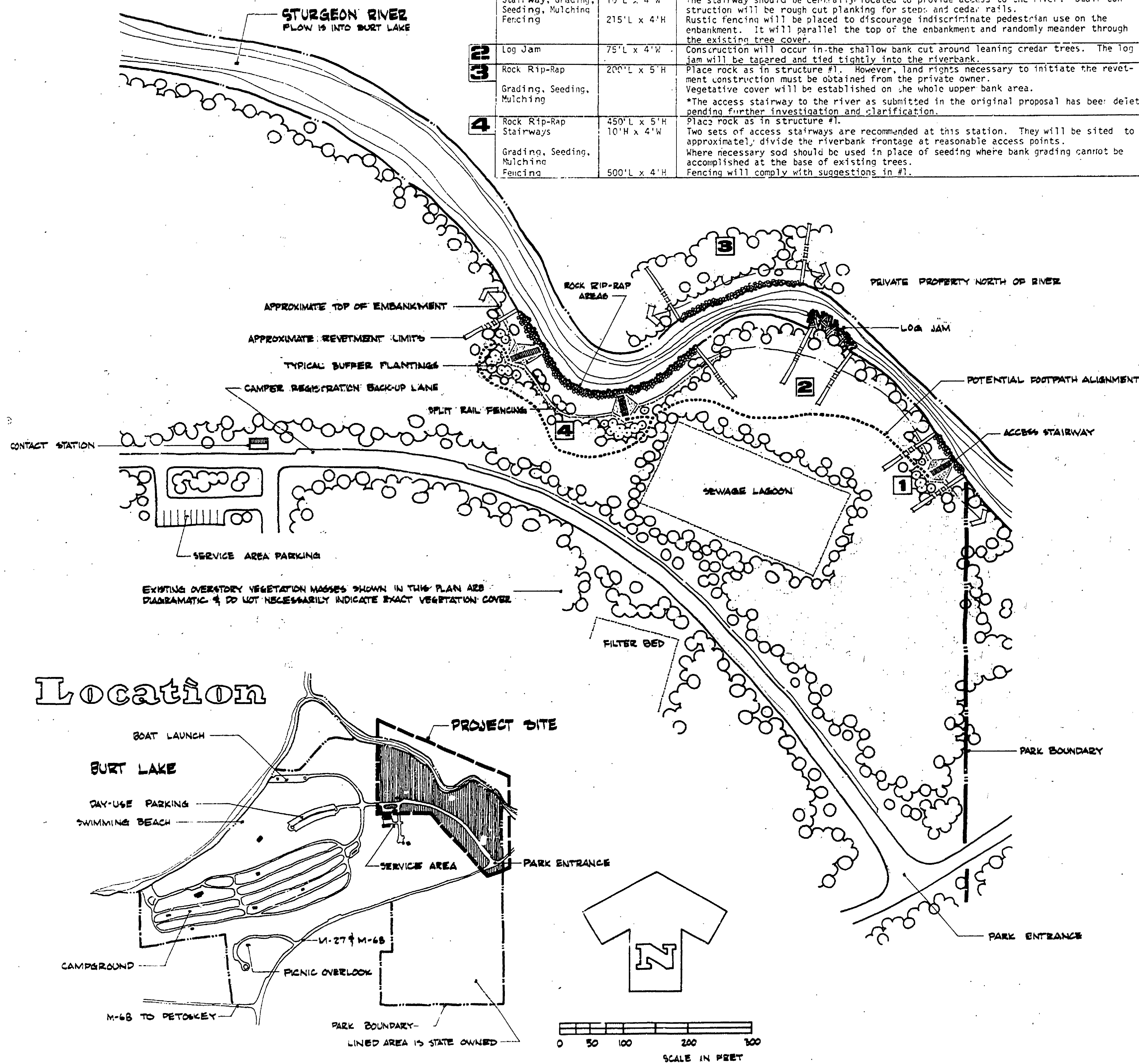


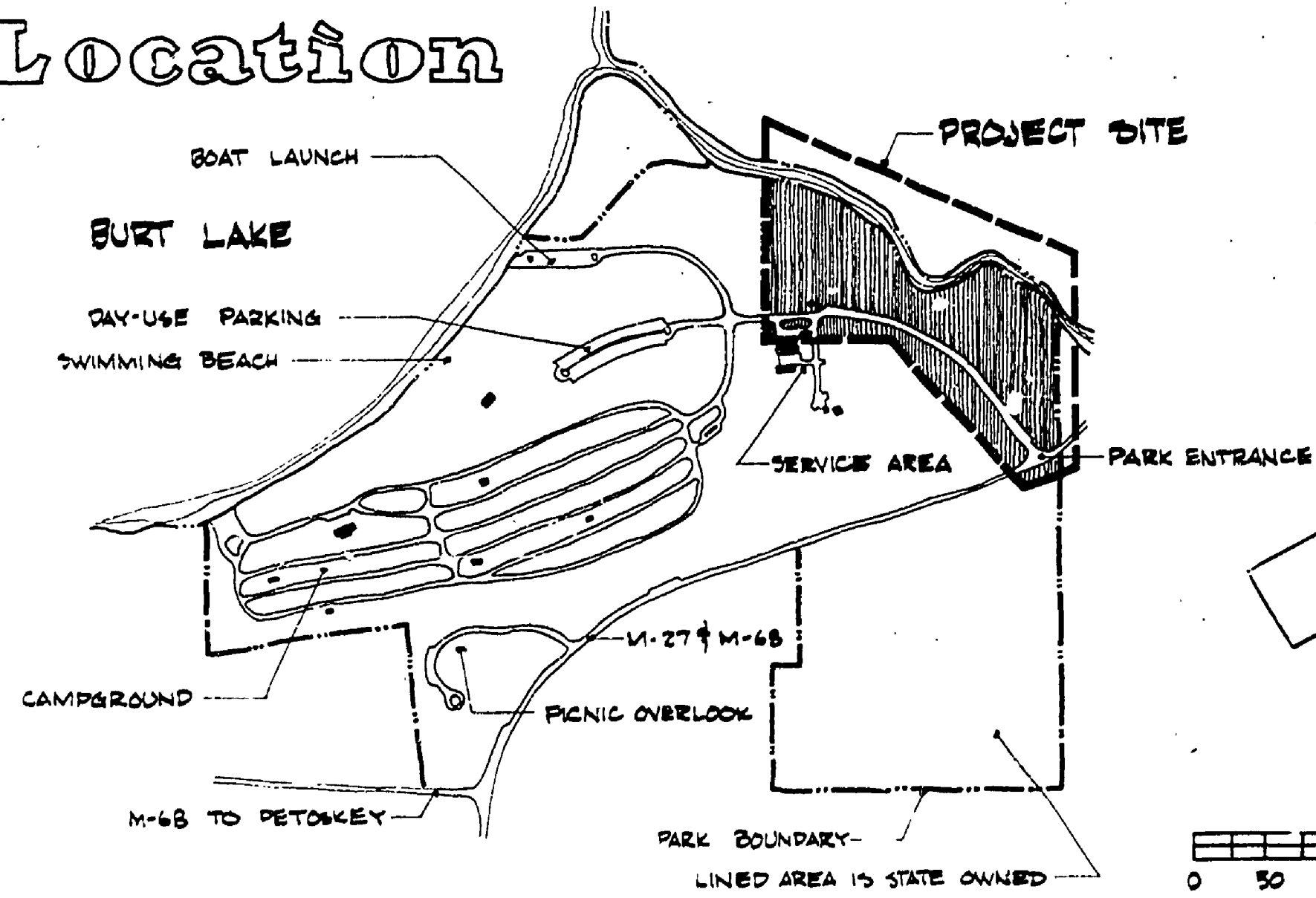
# a Site Plan

The following notes keyed numerically to the site plan are the recommended revetment proposals:

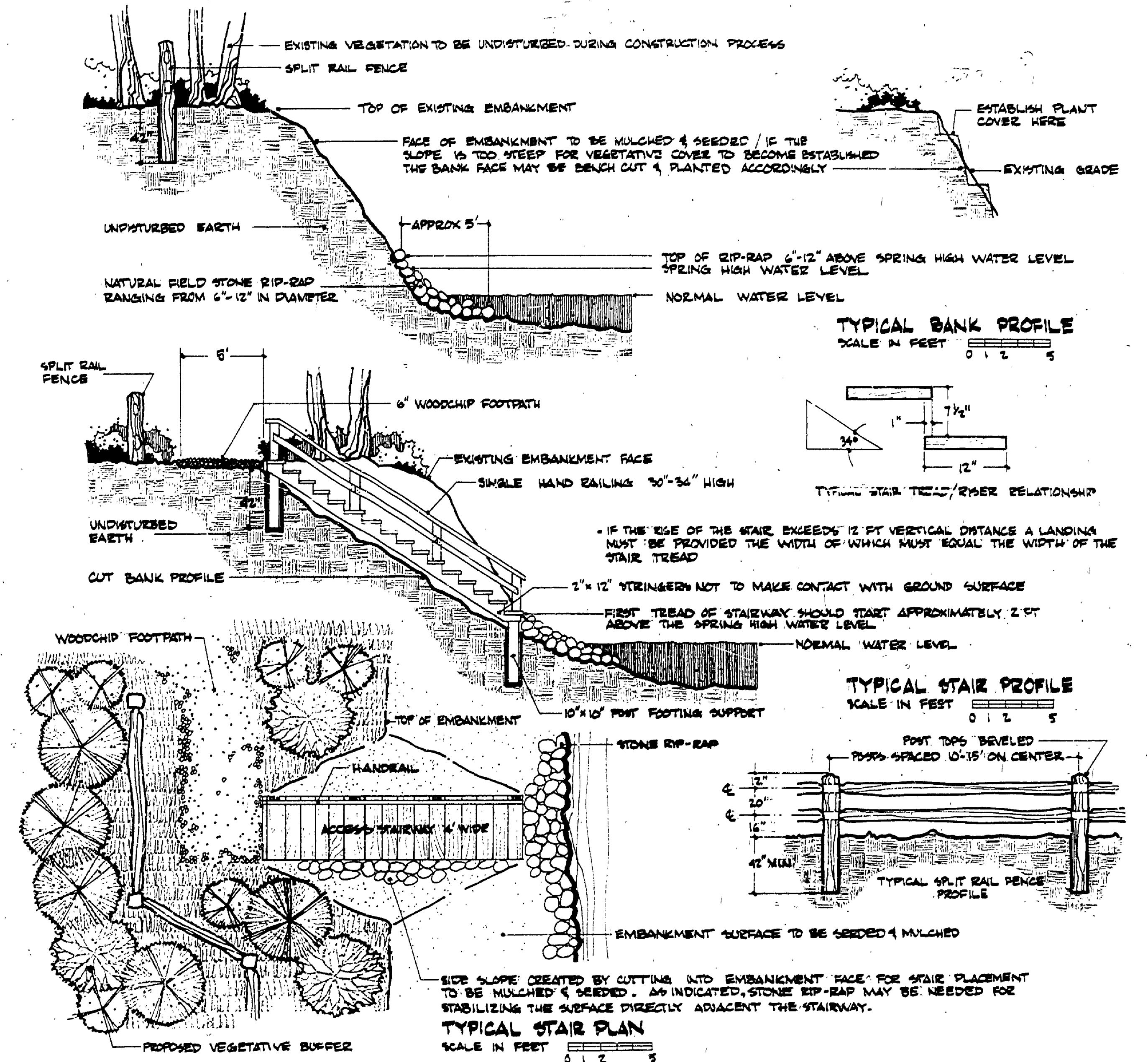
Structure Type	Dimensions	Comments
1 Rock Rip-Rap	75'L x 5'H	Rock should be placed from bottom of streambed up to a point at least 6" above the spring high water mark. Sufficient rock should be added to the base of the bank to allow foot traffic on rock.
Stairway, Grading, Seeding, Mulching	10'L x 4'W	The stairway should be centrally located to provide access to the river. Stair construction will be rough cut planking for steps and cedar rails. Rustic fencing will be placed to discourage indiscriminate pedestrian use on the embankment. It will parallel the top of the embankment and randomly meander through the existing tree cover.
2 Log Jam	75'L x 4'W	Construction will occur in the shallow bank cut around leaning cedar trees. The log jam will be tapered and tied tightly into the riverbank.
3 Rock Rip-Rap	200'L x 5'H	Place rock as in structure #1. However, land rights necessary to initiate the revetment construction must be obtained from the private owner. Vegetative cover will be established on the whole upper bank area.
Grading, Seeding, Mulching		*The access stairway to the river as submitted in the original proposal has been deleted pending further investigation and clarification.
4 Rock Rip-Rap	450'L x 5'H	Place rock as in structure #1.
Stairways	10'H x 4'W	Two sets of access stairways are recommended at this station. They will be sited to approximate, divide the riverbank frontage at reasonable access points.
Grading, Seeding, Mulching		Where necessary sod should be used in place of seeding where bank grading cannot be accomplished at the base of existing trees.
Fencing	500'L x 4'H	Fencing will comply with suggestions in #1.



## Location



# b Schematic Details



# c Notes

- The purpose of this site plan is to graphically illustrate and document the schematic proposals and recommendations for the Sturgeon River shoreline revetment project at Burt Lake State Park. The schematic ideas presented in this site plan are recommended guidelines.
- In an effort to check the shoreline erosion problems, park personnel have dumped tree stumps and broken concrete along the critical shore areas. When the more permanent revetment proposals are implemented, the tree stumps and concrete should be removed from the embankment. This can be phased with the time-table necessary for the natural vegetation material to effectively stabilize the embankment.
- The access stairs should be carefully integrated into the embankment and appropriately sited to minimize any potential construction problems. Wood used in the stairways will be appropriately stained to preserve it and treated where it comes in contact with the ground. As indicated, a 5 foot wide woodchip footpath should be provided between the access stairs.
- No major vegetation cover will be cut or disturbed in providing construction access to the work areas. If vehicular access is not possible, other methods of transporting materials will be implemented. The buffer planting scheme will be established along the rustic fence line in areas where the existing vegetation is sparse. Heavy buffer plantings should be concentrated at the access stairway locations. It is recommended that plant materials indigenous to the immediate area be considered as a first priority in the plantings.
- During the construction phase, discretion and good judgment will be necessary elements in harmoniously integrating the development with the natural river environment. Should any significant problems arise in adapting the concepts to the site, a landscape architect from the Division Office will be available for on site assistance.

REVIEWED BY: Garnes M. Hane 3-26-75  
 IN CHARGE, PLANNING & DESIGN DATE  
 APPROVED BY: [Signature] 3-26-75  
 CHIEF, PARKS DIVISION DATE

SURVEYED BY	DRAWN BY <b>RINCK</b>	NO. <b>75</b>	NO.	DATE	BY	REVISIONS	NO.	DATE	BY	REVISIONS	MICHIGAN DEPARTMENT OF NATURAL RESOURCES	<b>SITE PLAN</b>	BURT LAKE STATE PARK	PROJECT NO.
DESIGNED BY <b>VARIOUS</b>	74-75	CHECKED BY	1.	DATE	2.		3.					SHEET <b>1</b> OF <b>1</b>	Sturgeon River Shoreline Revetment	PLAN NO. <b>L-117</b>