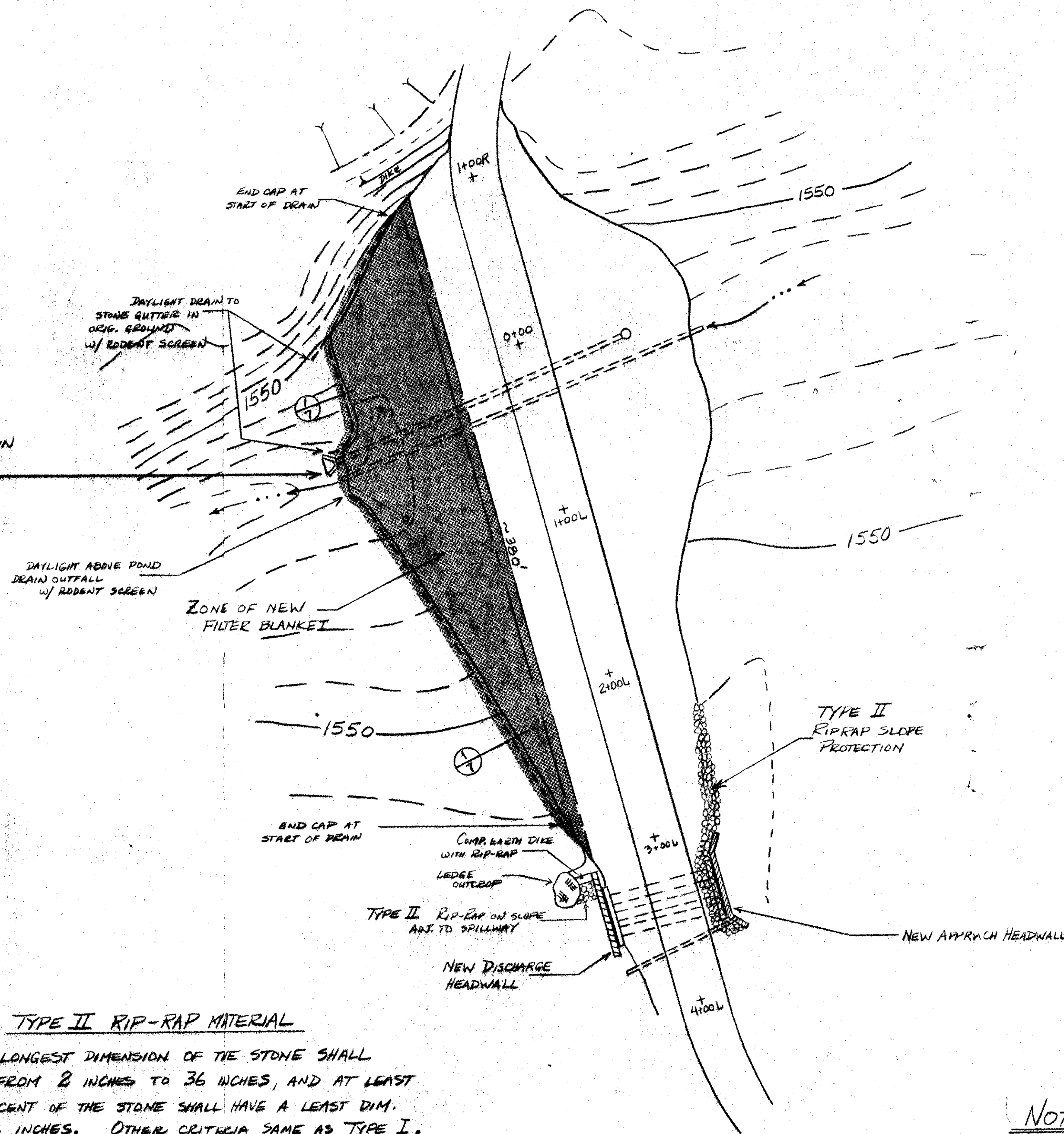


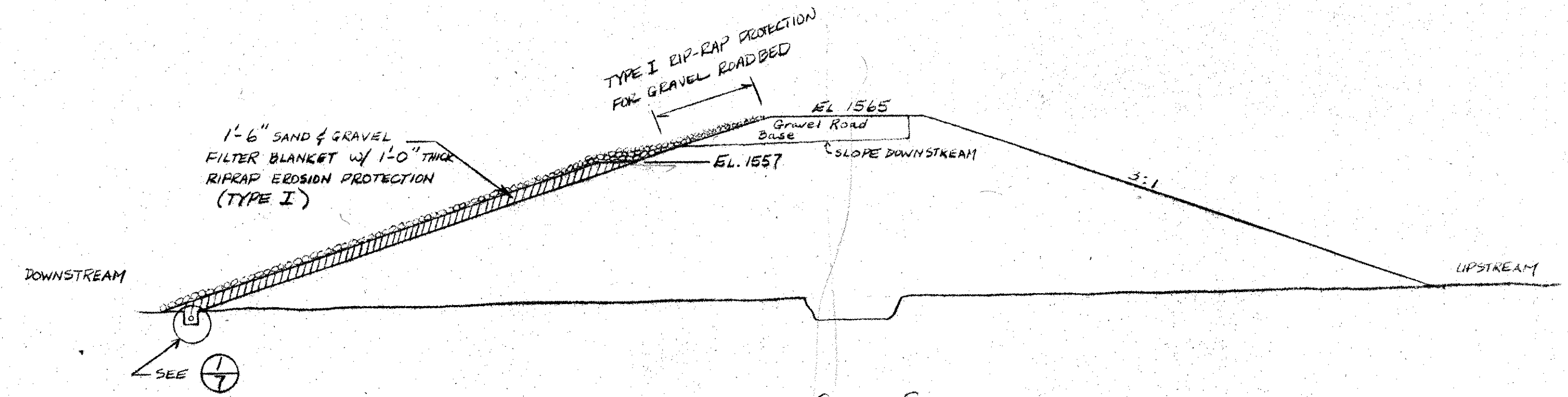
SAND & GRAVEL FILTER AND RIP-RAP SHALL BE PLACED AROUND THE POND DRAIN AND AROUND THE 36" DIA. CONDUIT.



TYPE II RIP-RAP MATERIAL

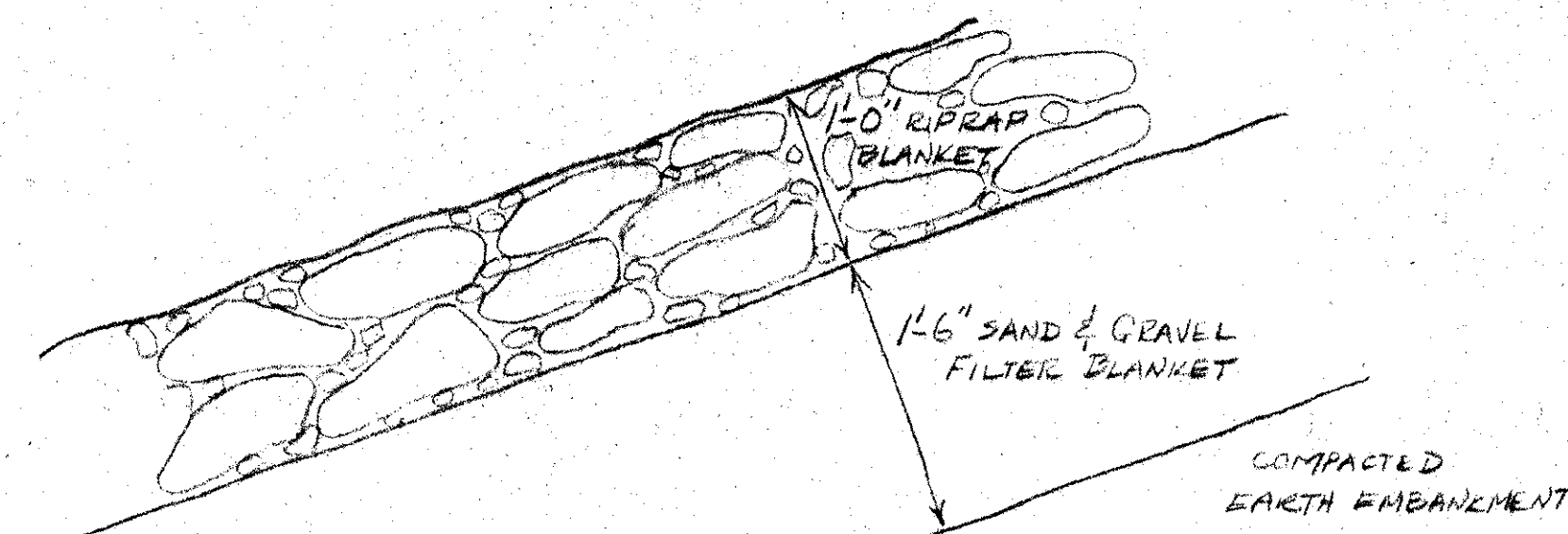
THE LONGEST DIMENSION OF THE STONE SHALL VARY FROM 2 INCHES TO 36 INCHES, AND AT LEAST 50 PERCENT OF THE STONE SHALL HAVE A LEAST DIM. OF 12 INCHES. OTHER CRITERIA SAME AS TYPE I.

EMBANMENT PLAN
SCALE: 1" = 50'



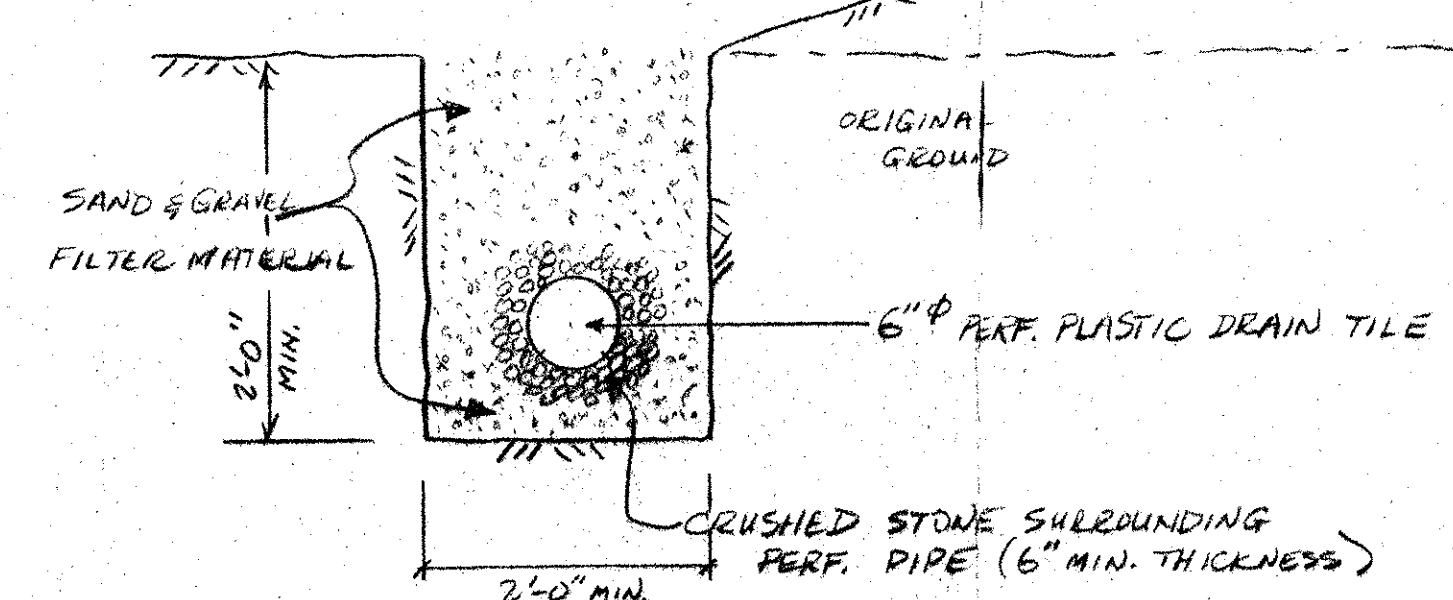
EMBANMENT CROSS SECTION

SCALE: 1" = 20'



TYPE I RIP-RAP MATERIAL

THE LONGEST DIMENSION OF THE STONE SHALL VARY FROM 1 INCH TO 12 INCHES AND AT LEAST 50 PERCENT OF THE STONE SHALL BE 4 INCHES IN LEAST DIMENSION. STONE SHALL BE APPROVED, HARD, ANGULAR, ROCK WITH LEAST DIMENSION NOT LESS THAN 1/3 ITS LONGEST DIM. GRADATION SHALL BE SUCH TO FORM A COMPACT MASS WHEN IN PLACE.



SECTION AT EMBANKMENT INTERFACE WITH NATURAL GROUND ~ DOWNSTREAM TOE

SCALE: 1" = 1'-0"

SAND & GRAVEL FILTER MATERIAL

SIEVE SIZE	% FINER BY WGT.
2"	100%
1"	95-100
#4	20-55
#10	10-45
#40	0-25
#200	0-3

- NOTES:
- UP TO 5% PASSING #200 IS ACCEPTABLE IF FINES ARE NON-PLASTIC.
 - UNIFORMITY COEFF. MUST BE ≥ 6 .
 - THIS GRADATION SPEC. SATISFIES FILTER CRITERIA FOR D_{15} AND D_{85} SIZES OF FILTER AND PROTECTED SOIL. ACTUAL GRADATION CURVE FOR FILTER MAT'L WILL BE SUBMITTED TO VT. DEPT. OF WATER RESOURCES FOR APPROVAL.

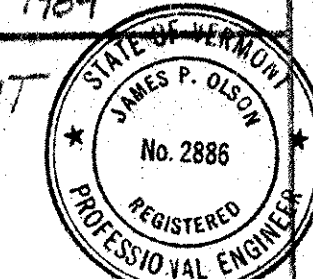
- NOTES:
- THE EMBANKMENT FILL & RELATED STRUCTURES WILL BE CONSTRUCTED TO THE LINES AND GRADES SHOWN ON THE DRAWINGS.
 - BEFORE PLACEMENT OF THE FILTER BLANKET, THE EMBANKMENT SURFACE WILL BE PREPARED BY REMOVING VEGETATION & SCARIFYING THE SURFACE TO PROVIDE A GOOD BOND BETWEEN THE EMBANKMENT SOIL & FILTER.
 - THE SAND & GRAVEL FILTER WILL BE COMPACTED IN LAYERS NOT TO EXCEED 8 INCHES IN THICKNESS BEFORE COMPACTION. THE LAYERS WILL BE COMPACTED TO A DRY DENSITY EQUAL TO OR GREATER THAN 95% OF MAX. DRY DENSITY AS DETERMINED BY ASTM-698-78 METHOD C.
 - THE COMPACTED EARTH DIKE ADJACENT TO THE EMERGENCY SPILLWAY WILL BE BUILT ON PREPARED, ORIGINAL GROUND AND COMPACTED IN LAYERS NOT TO EXCEED 8 INCHES BEFORE COMPACTION TO AT LEAST 95% OF MAX. DRY DENSITY AS DETERMINED BY ASTM-698-78 METHOD A.

AS-BUILT JAN 1984

MODIFICATIONS TO EMBANKMENT

WARREN LAKE - WARREN, VT.
JACK KEIR AND LENORD ROBINSON

JAMES P. OLSON, P.E.



Date	7/6/82	Notes	DETAIL ADDED
Drawn by	JPO	Date	JUNE 1982
Checked by		Scale	AS NOTED
Approved by	JPO	Project No.	

AB
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