

RAMSEY COUNTY
DEPARTMENT OF PUBLIC WORKS

CONSTRUCTION PLAN: FOR THE INSTALLATION OF FILTER BEDDING
AND GABIONS FOR SHORELINE PROTECTION AT

KELLER ISLAND

SE 1/4, SEC. 9, T29N R22W

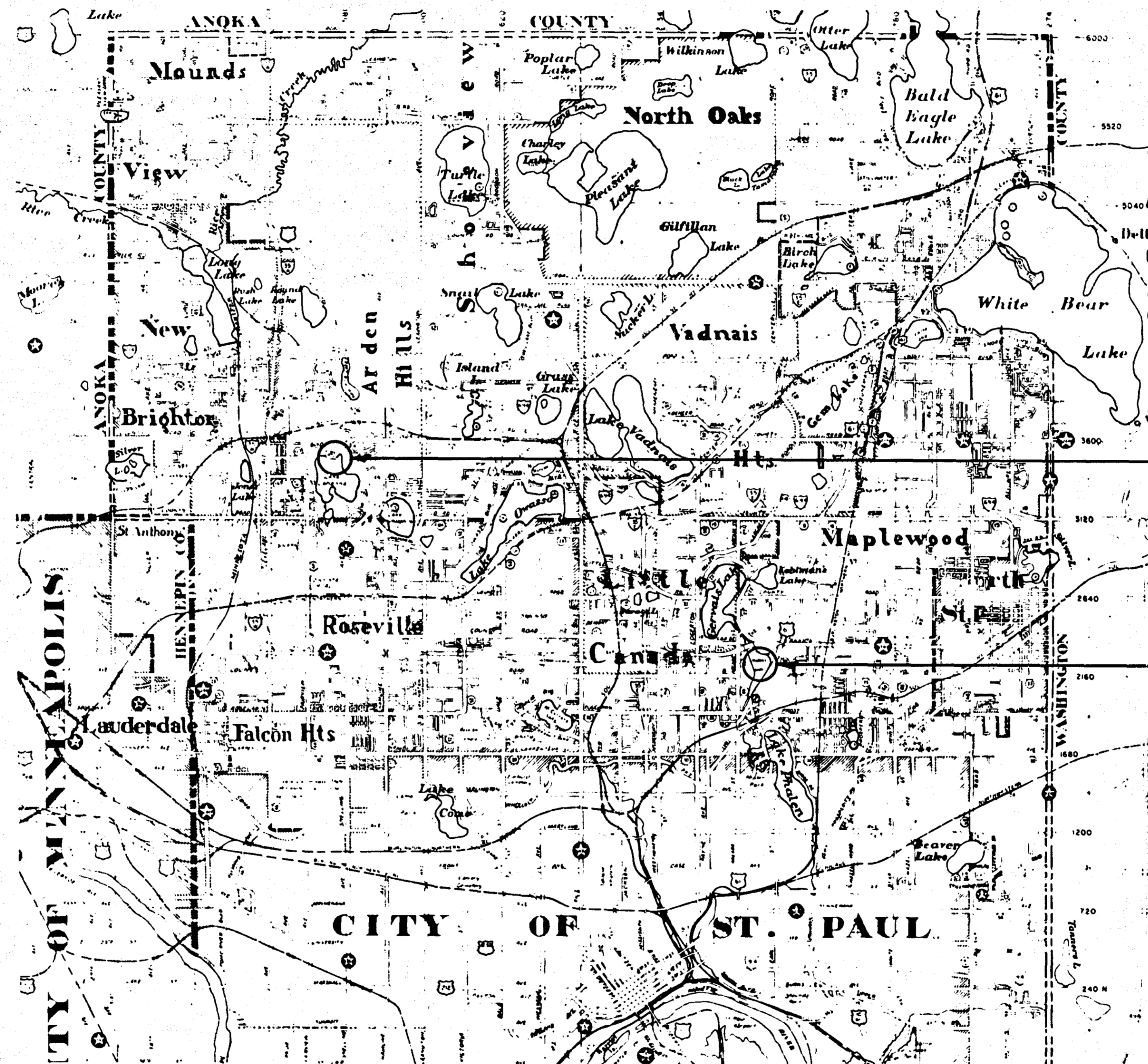
AND

LAKE JOHANNA

AT TONY SCHMIDT PARK, NE 1/4 SEC 33, T30N R23W

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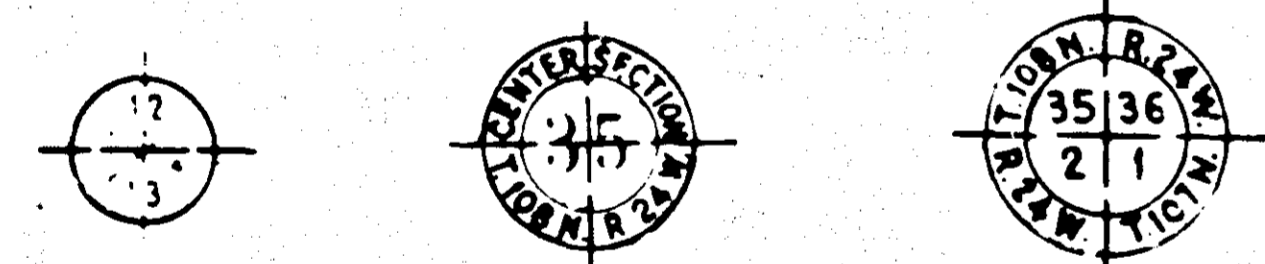


PLANS SYMBOLS

STATE LINE	SPRINGS
COUNTY LINE	MARSH
TOWNSHIP OR RANGE LINE	TIMBER
SECTION LINE	ORCHARD
QUARTER LINE	BRUSH
SIXTEENTH LINE	NURSERY
RIGHT OF WAY LINE	CATCH BASIN
PRESENT RIGHT OF WAY LINE	FIRE HYDRANT
CONTROL OF ACCESS LINE	CATTLE GUARD
PROPERTY LINE (Except Land Lines)	OVERPASS (Highway Over)
VACATED PLATTED PROPERTY	UNDERPASS (Highway Under)
CORPORATE OR CITY LIMITS	BRIDGE
TRUNK HIGHWAY CENTER LINE	BUILDING (One Story Frame)
RETAINING WALL	F FRAME C CONCRETE
RAILROAD	S STONE T TILE
RAILROAD RIGHT OF WAY LINE	B BRICK ST STUCCO
RIVER OR CREEK	IRON PIPE OR ROD
DRY RUN	MONUMENT (STONE, CONCRETE OR METAL)
DRAINAGE DITCH	WOODEN HUB
DRAIN TILE	GRAVEL PIT
CULVERT	SAND PIT
DROP INLET	BORROW PIT
RAILROAD CROSSING	ROCK QUARRY
RAILROAD CROSSING BELL	
ELECTRIC WARNING SIGN	
CROSSING GATE	
MEANDER CORNER	

UTILITIES SYMBOLS

POWER POLE LINE	CONDUIT
TELEPHONE OR TELEGRAPH POLE LINE	TELEPHONE CABLE IN CONDUIT
JOINT TELEPHONE AND POWER OR TELEPHONE POLES	ELECTRIC CABLE IN CONDUIT
ANCHOR	TELEPHONE MANHOLE
STEEL TOWER	ELECTRIC MANHOLE
STREET LIGHT	BURIED TELEPHONE CABLE
PEDESTAL TELEPHONE CABLE TERMINAL	BURIED ELECTRIC CABLE
GAS MAIN	AERIAL TELEPHONE CABLE
WATER MAIN	SEWER (SANITARY OR STORM)
	SEWER MANHOLE



CITY OF ST. PAUL

LAKE JOHANNA PROJECT

KELLER ISLAND PROJECT

DESIGNED BY: DATE: 8-21-81
 DRAWN BY: DATE: 8-18-81
 CHECKED BY: DATE: 8-18-81

HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 DATE 8-21-81 REG. NO. 11659 ENGR. Daniel D. Schacht

RECOMMENDED FOR APPROVAL: PLY DATE 8-21-81
 RECOMMENDED FOR APPROVAL: DRS DATE 8/18/81
 RECOMMENDED FOR APPROVAL: MDR DATE 8/18/81
 RECOMMENDED FOR APPROVAL: DRA DATE 8-18-81
 RECOMMENDED FOR APPROVAL: LRF DATE 8-18-81
 RECOMMENDED FOR APPROVAL: JLB DATE 8-20-81
 APPROVED: W. J. ... DATE 8-20-81

RECOMMENDED FOR APPROVAL: ... DATE 9-8-81
 APPROVED: Robert J. ... DATE 9/28/81
 CHAIRMAN OF THE RAMSEY COUNTY BOARD

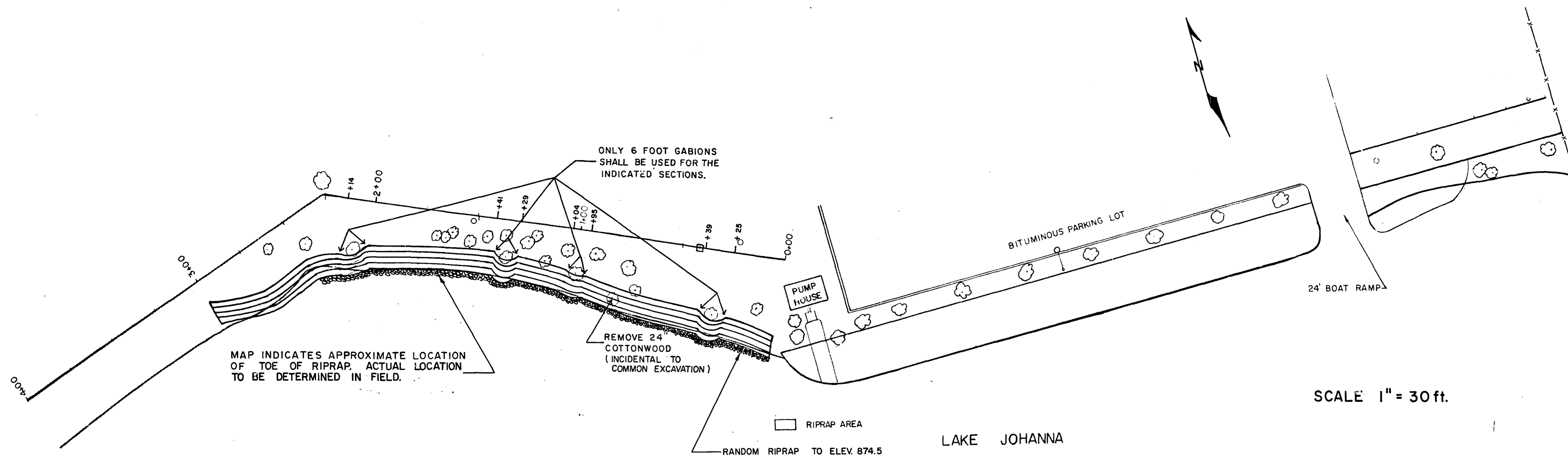
ENV 9
1 OF 9

ASBUILT PLAN
CONFIRMING TO
CONST. RECORDS
DONE BY: ...
DATE: 5-17-82

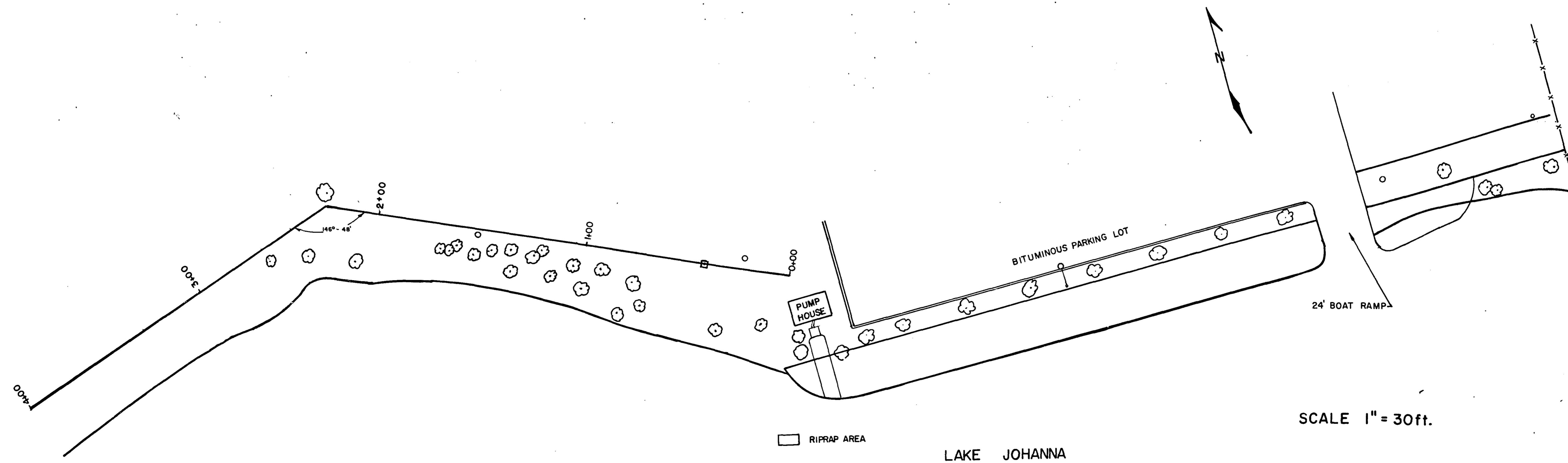
DATE	SHEET NO.	BY
7/28/81	1 THRU 9	DRA

I, hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of Minnesota.
 Daniel D. Schacht
 Date 5-7-81 Reg. No. 11659

LAKE JOHANNA EROSION CONTROL
PROPOSED CONSTRUCTION



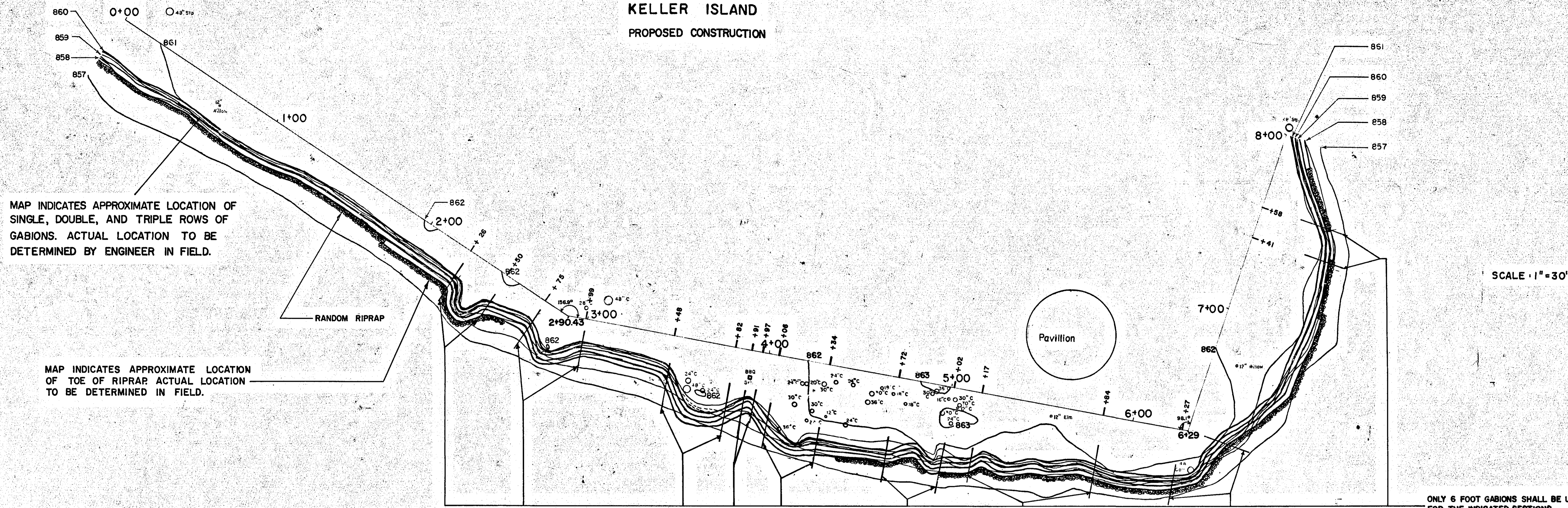
LAKE JOHANNA EROSION CONTROL
EXISTING TOPOGRAPHY



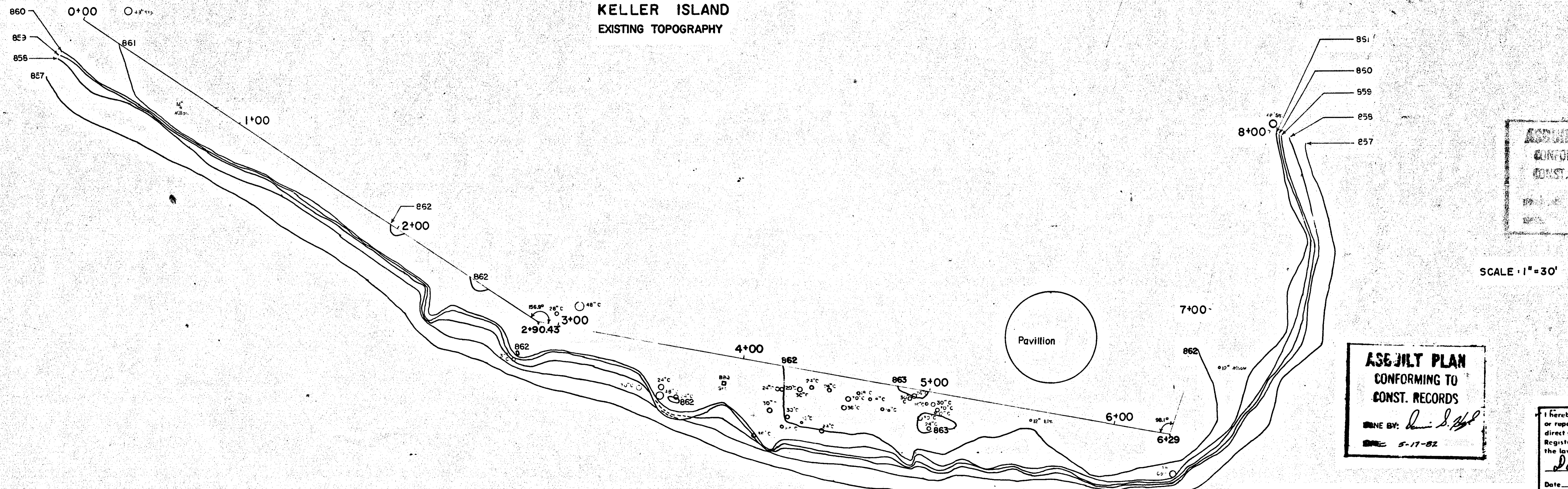
ASBUILT PLAN
CONFORMING TO
CONSTR. RECORDS
DONE BY: *Daniel W. Schacht*
DATE: 5-17-01

ENV 9
3 OF 9
I hereby certify that this plan, specification,
or report was prepared by me or under my
direct supervision and that I am a duly
Registered Professional Engineer under
the laws of the State of Minnesota.
Daniel W. Schacht
Date: 5-7-01 Reg. No. 11654

PLAN SHEET
KELLER ISLAND
PROPOSED CONSTRUCTION

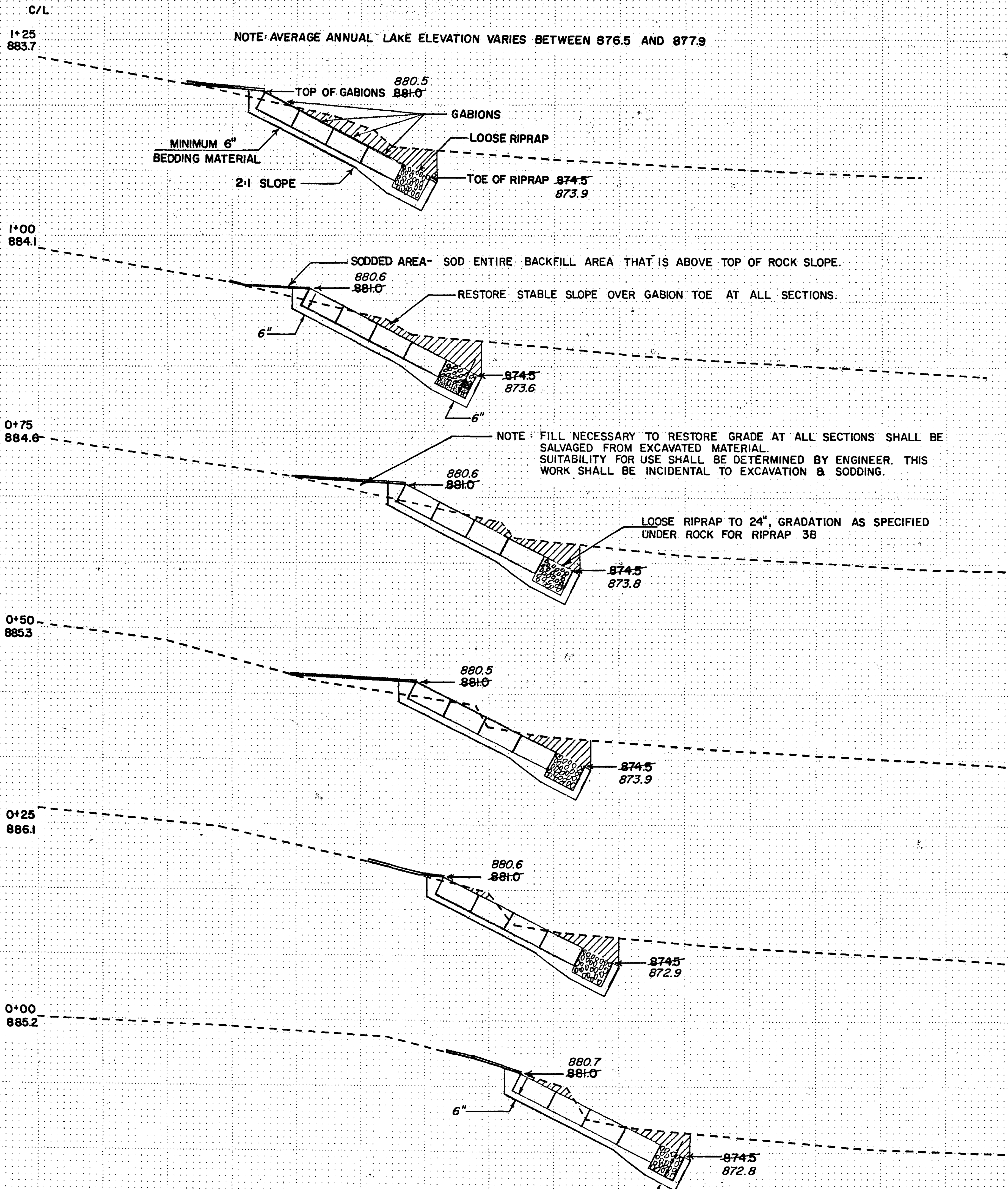


KELLER ISLAND
EXISTING TOPOGRAPHY

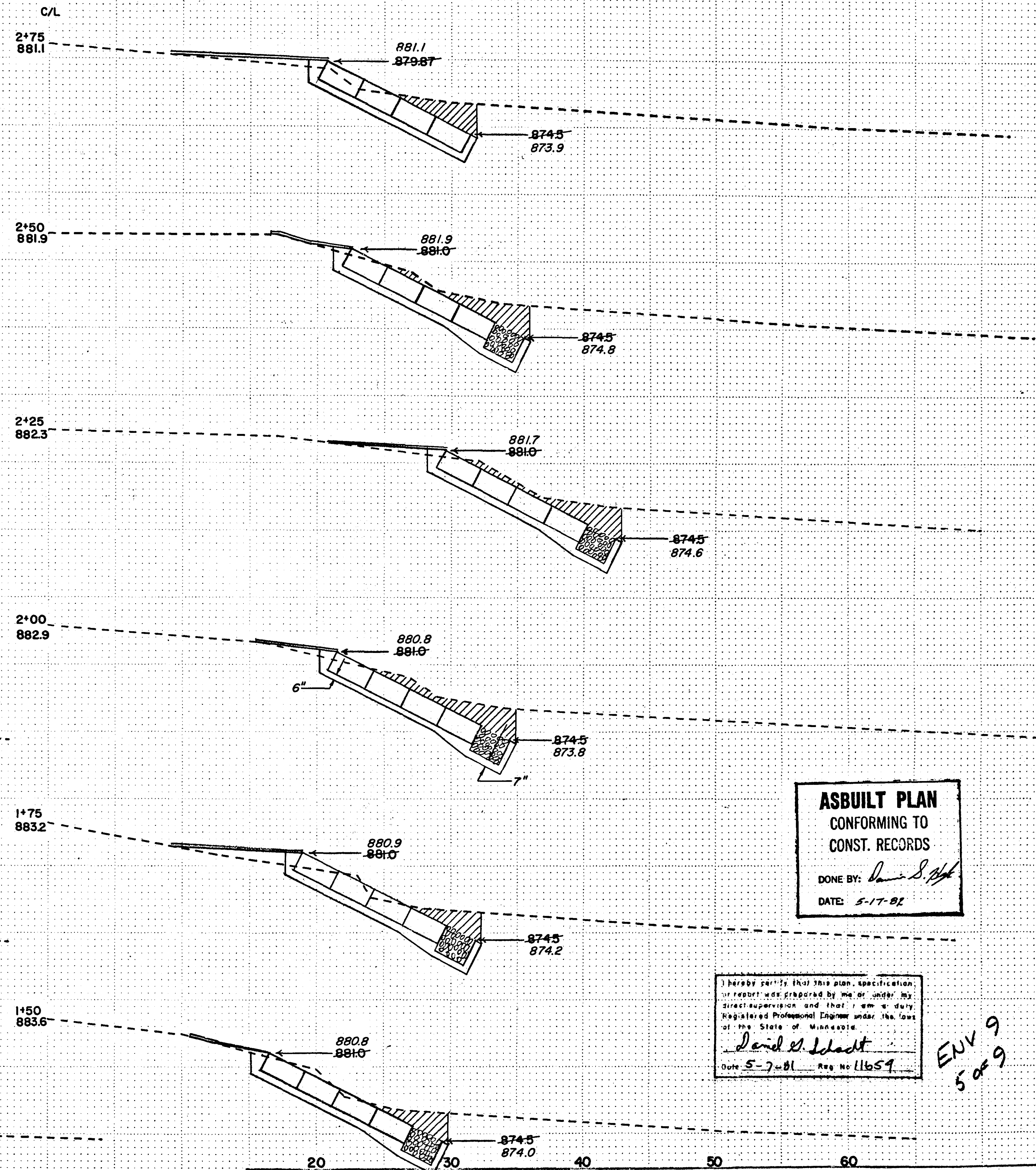


SCALE: VERT. & HOR. 1" = 5'

NOTE: AVERAGE ANNUAL LAKE ELEVATION VARIES BETWEEN 876.5 AND 877.9



NOTE: FILL NECESSARY TO RESTORE GRADE AT ALL SECTIONS SHALL BE SALVAGED FROM EXCAVATED MATERIAL. SUITABILITY FOR USE SHALL BE DETERMINED BY ENGINEER. THIS WORK SHALL BE INCIDENTAL TO EXCAVATION & SODDING.

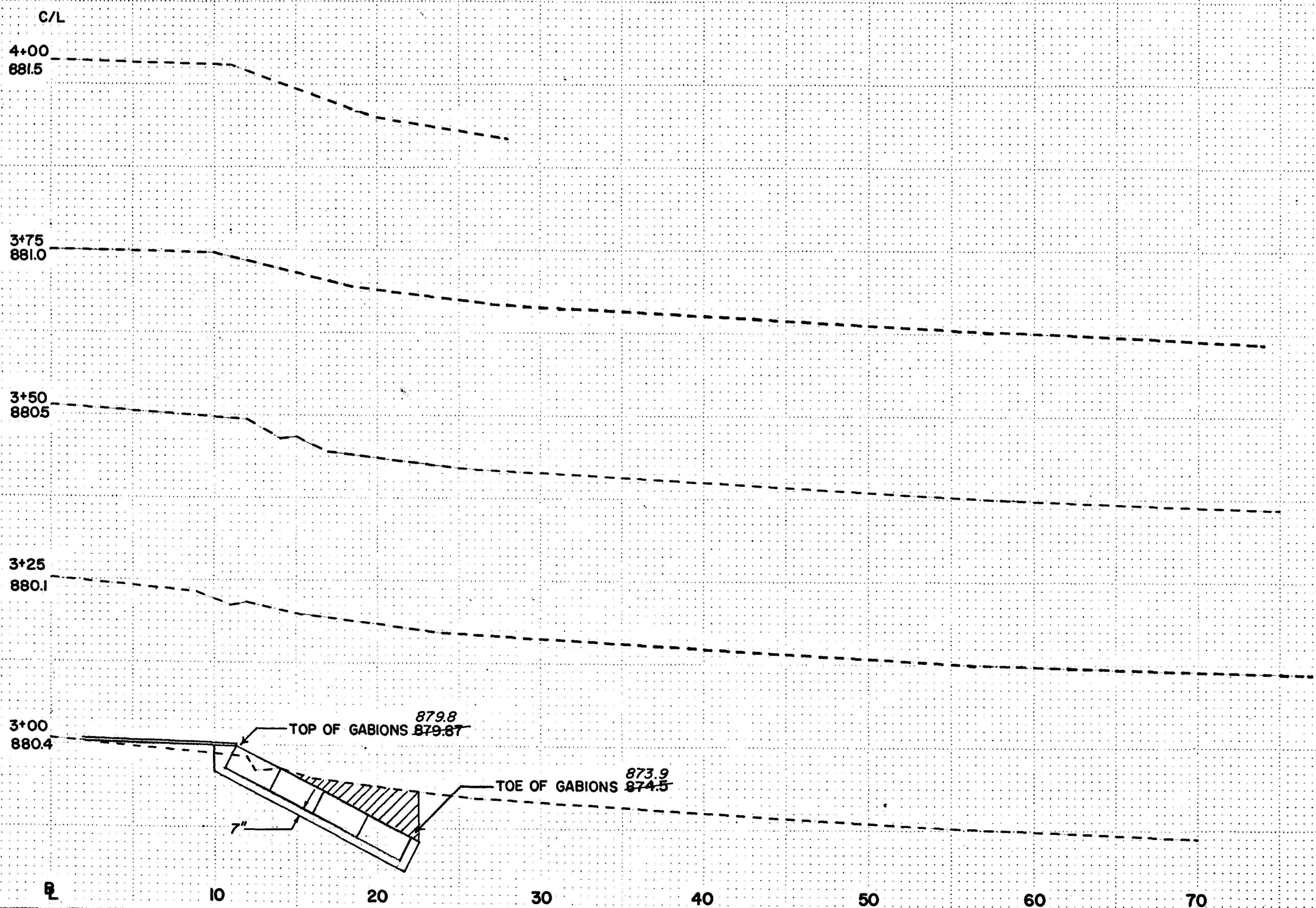


ASBUILT PLAN
 CONFORMING TO
 CONST. RECORDS
 DONE BY: *David S. Schadt*
 DATE: 5-17-82

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of Minnesota.
David S. Schadt
 Date 5-7-82 Reg No 11659

ENV 9
5 of 9

SCALE: HOR. & VERT. 1"=5'



ASBUILT PLAN
 CONFORMING TO
 CONST. RECORDS

DONE BY: *David D. Schmitt*
 DATE: 5-17-82

I hereby certify that the data, specifications, and report was prepared by me or under my direct supervision, and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

David D. Schmitt
 Date 5-7-81 Reg. No. 41659

ENV 9
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SCALE: HOR. & VERT 1"=5'

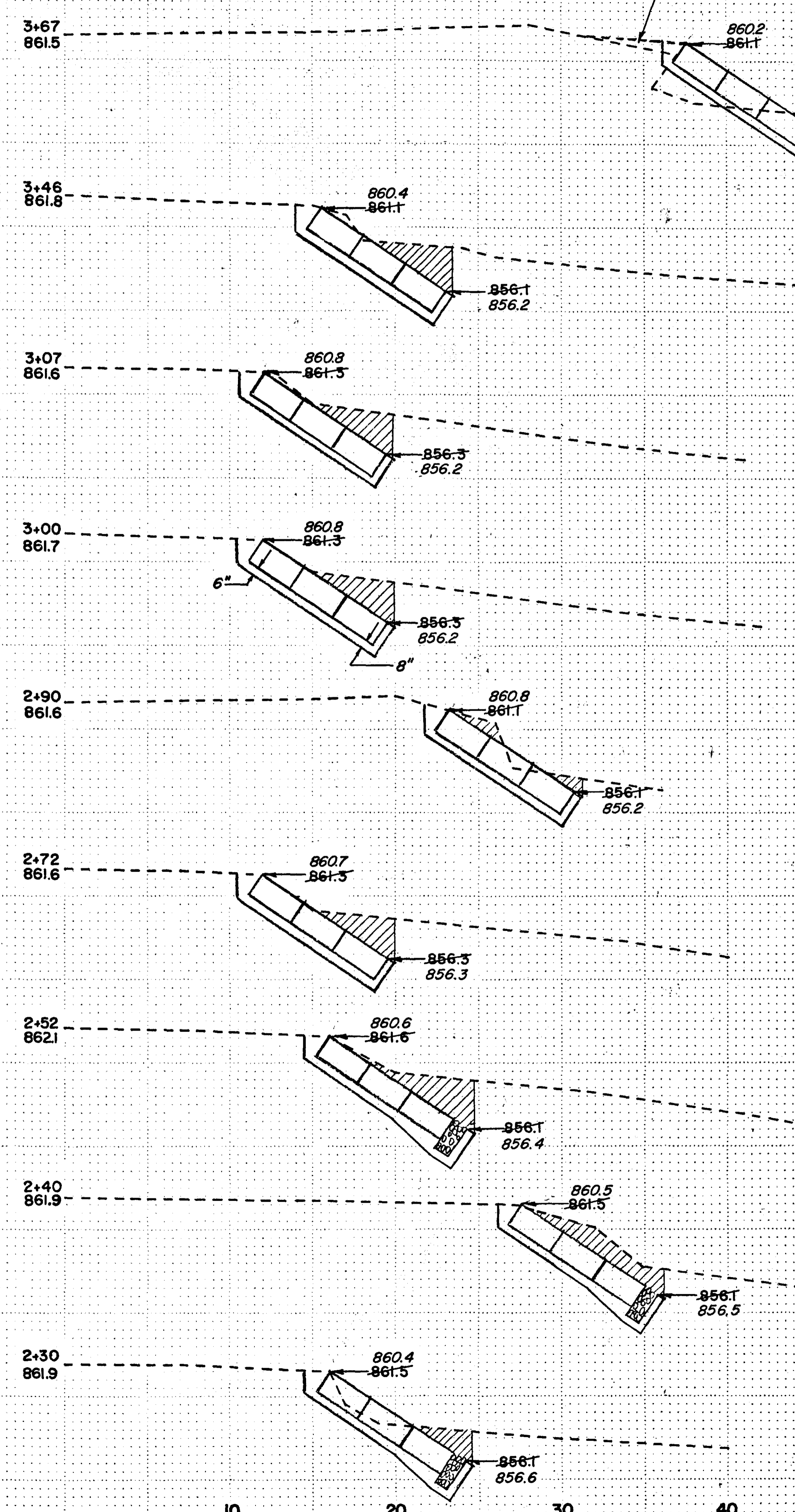
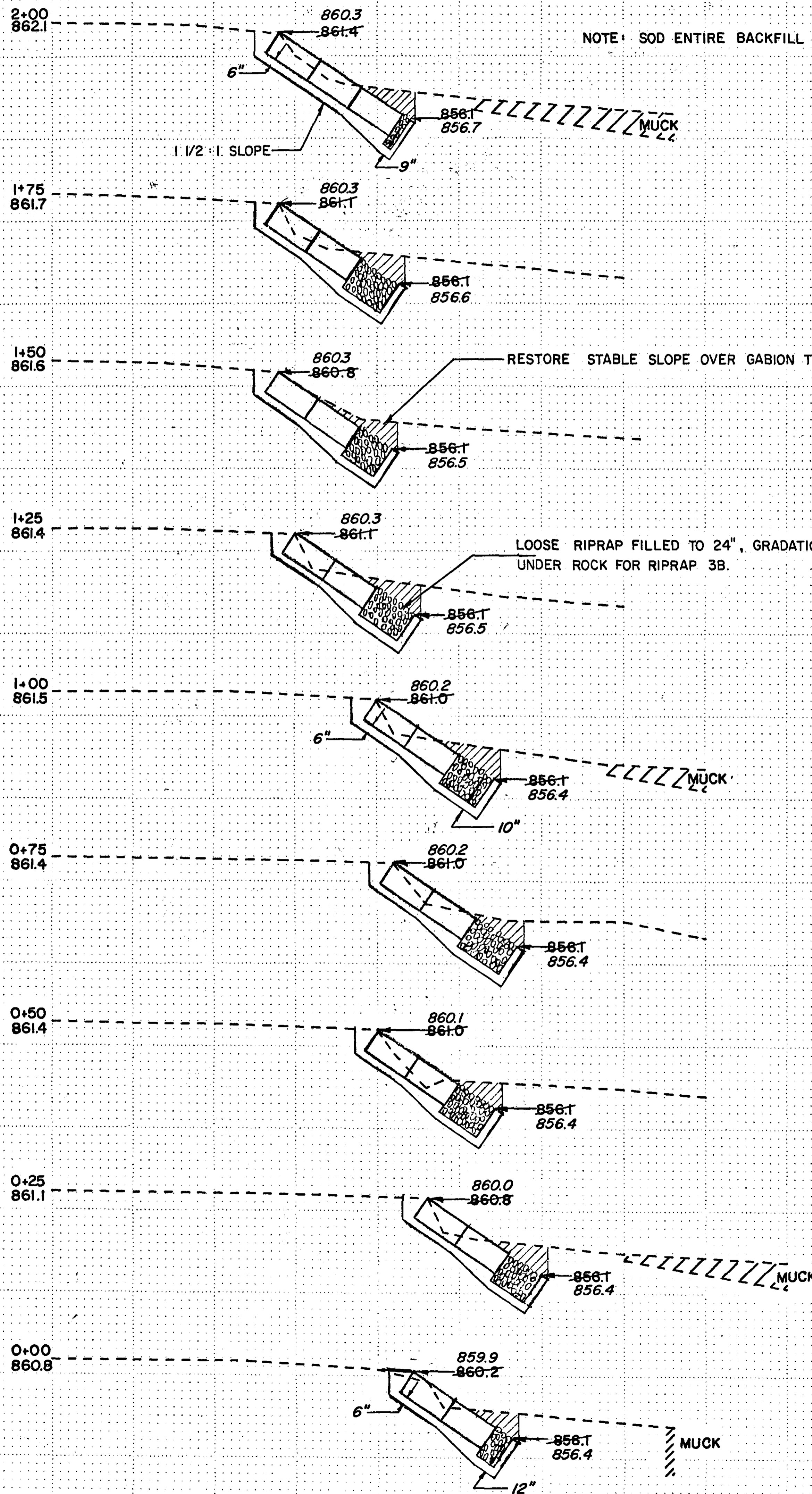
NOTE: AVERAGE ANNUAL LAKE ELEVATION VARIES BETWEEN 857.8 TO 859.2

NOTE: SOD ENTIRE BACKFILL AREA THAT IS ABOVE TOP OF ROCK SLOPE.

RESTORE STABLE SLOPE OVER GABION TOE AT ALL SECTIONS.

LOOSE RIPRAP FILLED TO 24", GRADATION AS SPECIFIED UNDER ROCK FOR RIPRAP 3B.

NOTE: FILL NECESSARY TO RESTORE AT ALL SECTIONS SHALL BE SALVAGED FROM EXCAVATED MATERIAL. SUITABILITY FOR USE SHALL BE DETERMINED BY ENGINEER. THIS WORK SHALL BE INCIDENTAL TO EXCAVATION & SODDING.



ASBUILT PLAN
 CONFORMING TO
 CONST. RECORDS

DRAWN BY: *Daniel J. Schacht*
 DATE: 5-17-82

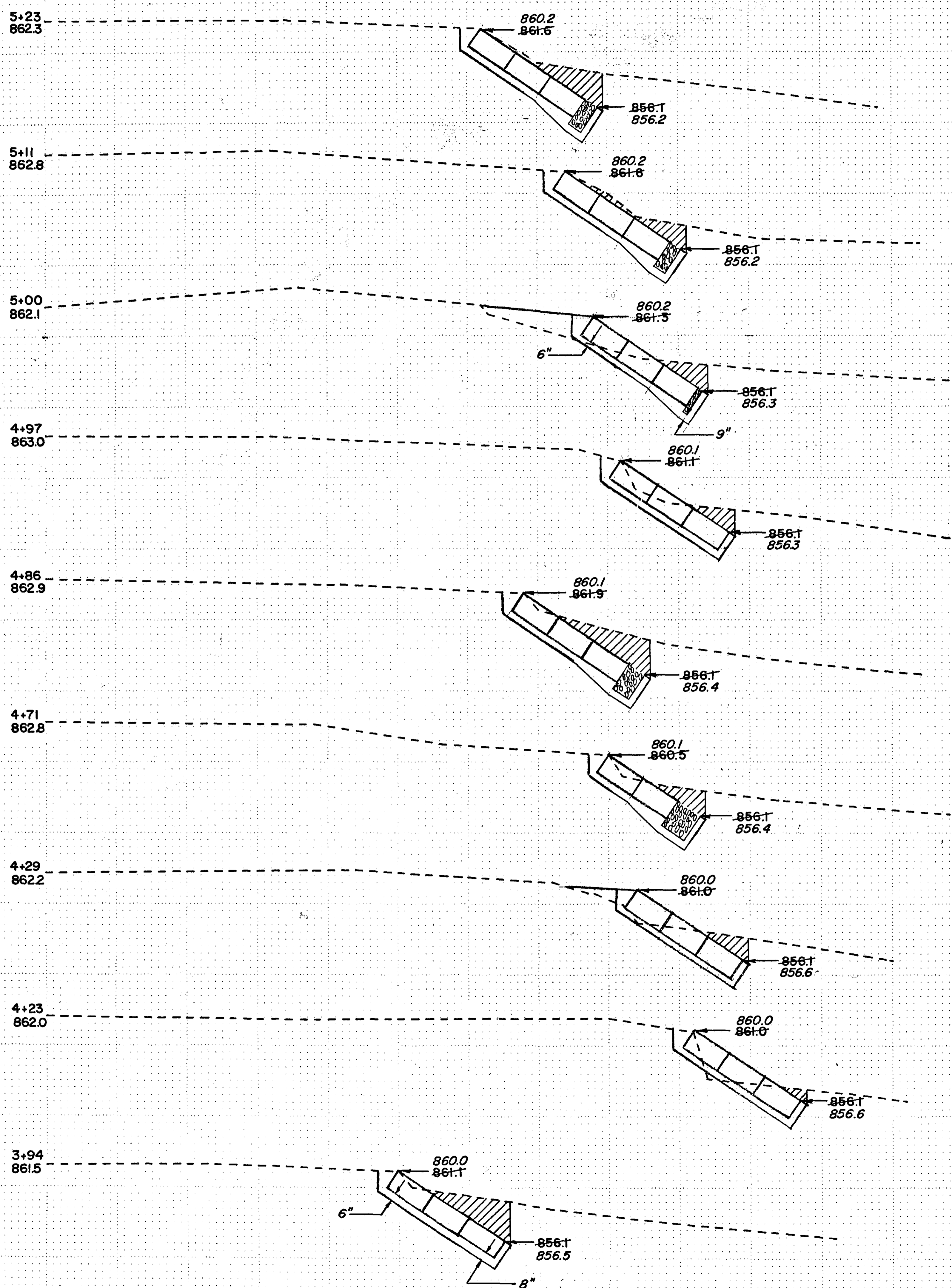
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Daniel J. Schacht
 License No. 11659

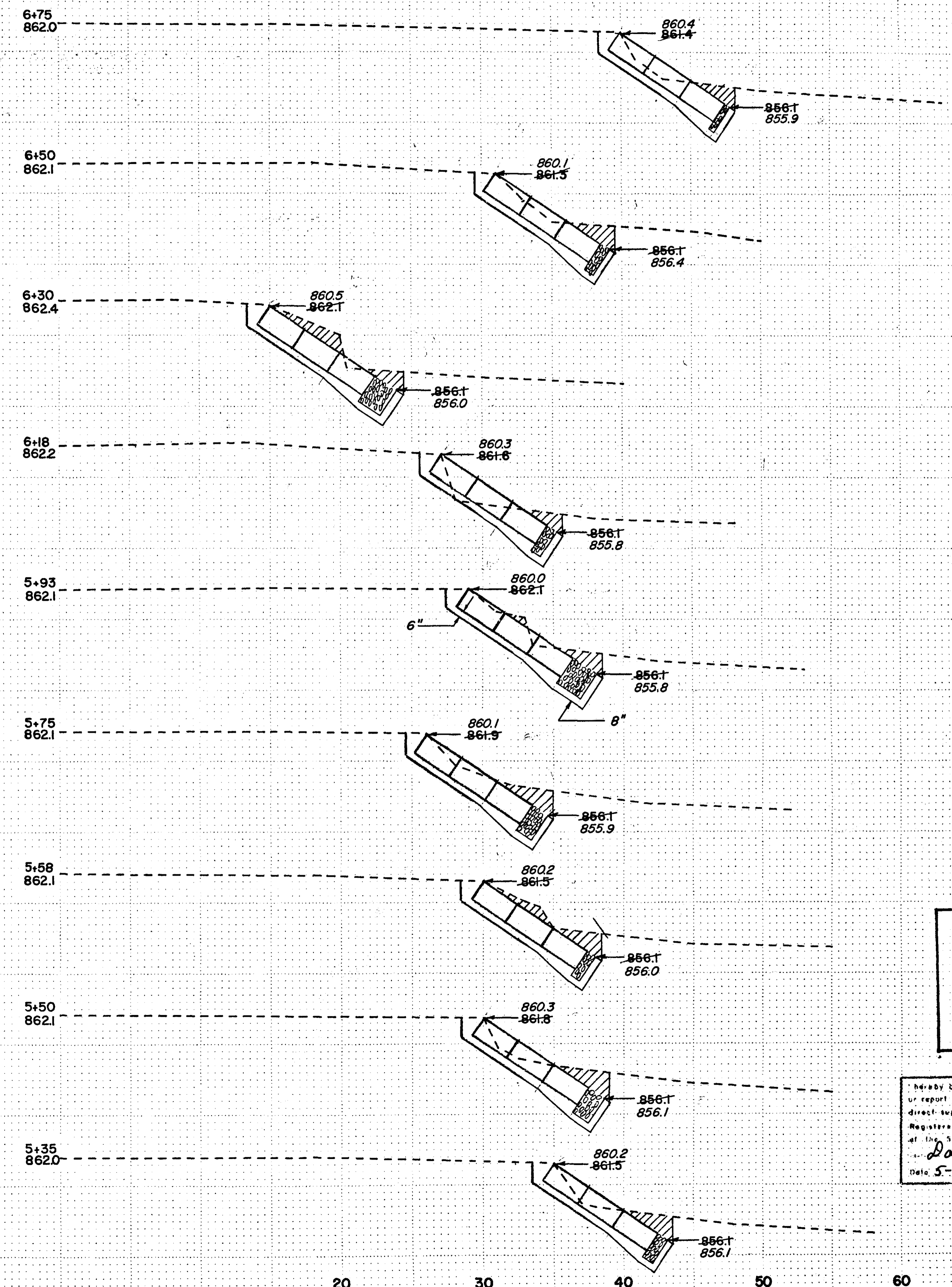
ENV 9
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SCALE: HOR. & VERT. 1"=5'

C/L



C/L

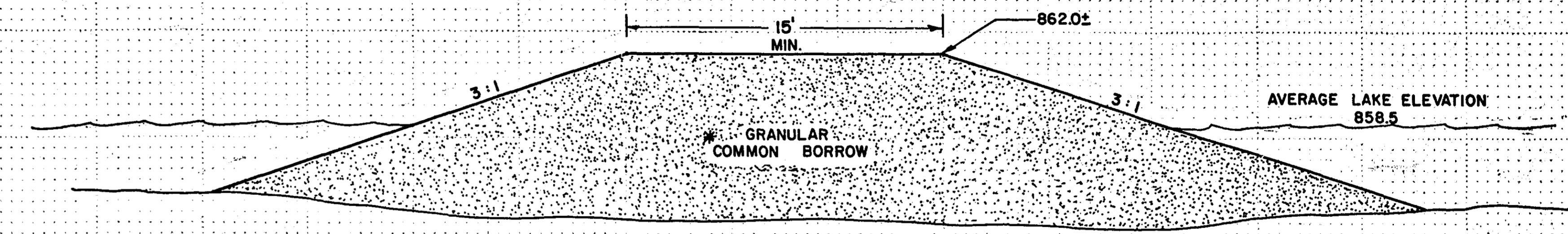
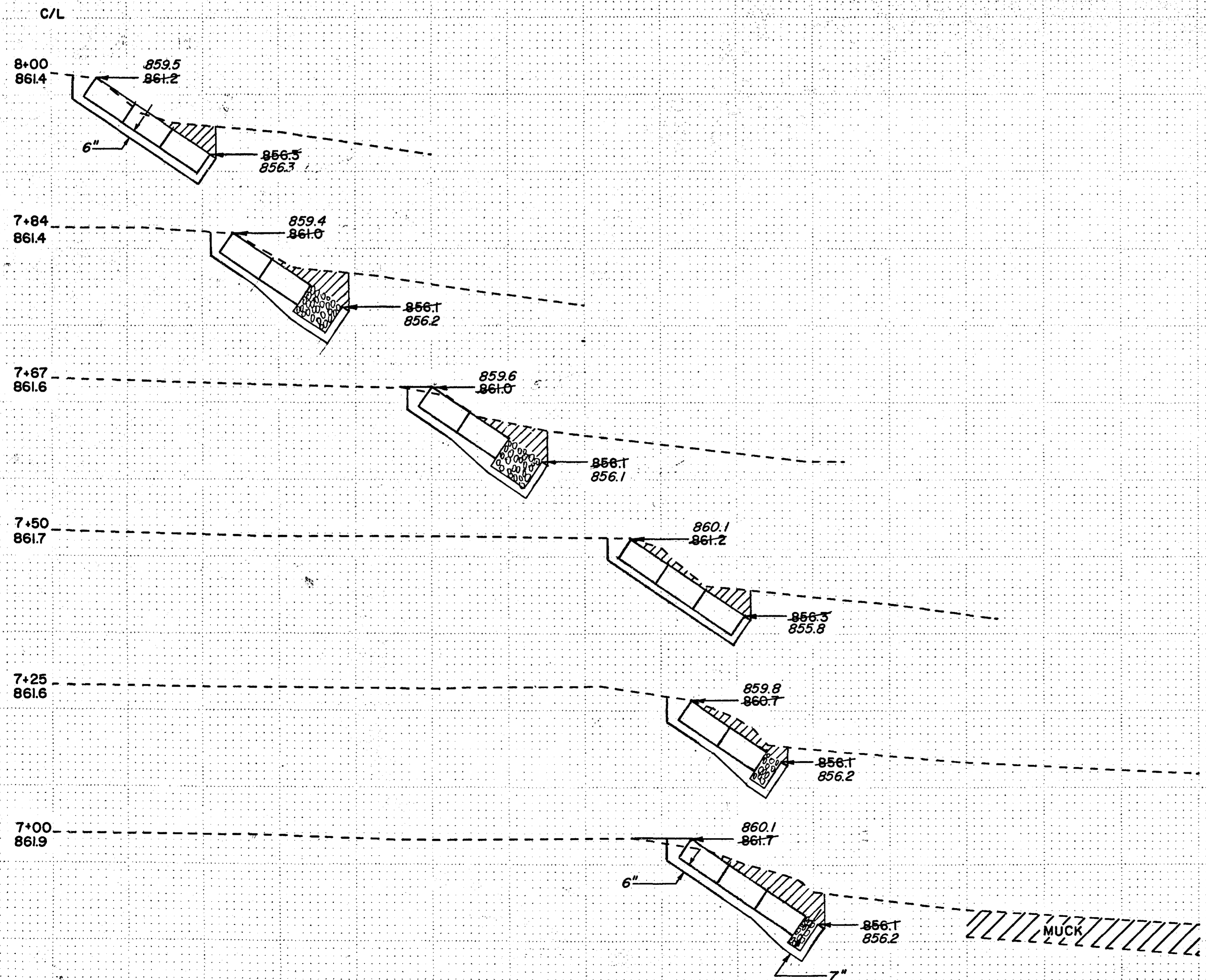


ASBUILT PLAN
 CONFORMING TO
 CONST. RECORDS
 DONE BY: *Daniel W. Schmitt*
 DATE: 5-17-82

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of Mississippi.
Daniel W. Schmitt
 Date 5-7-82 Reg. No. 11659

ENV 9
 8 OF 9

SCALE: HOR. & VERT. 1"=5'



TEMPORARY ACCESS

DIKE

*NOTE: COMMON BORROW IS SUBJECT TO PRIOR APPROVAL BY PROJECT ENGINEER.

SCALE 1"=5'

ASBUILT PLAN
 CONFORMING TO
 CONST. RECORDS
 DONE BY: *David L. Schmitt*
 DATE: 5-17-82

I hereby certify that this plan, specification, report was prepared by me or under my supervision and that I am a duly licensed Professional Engineer under the laws of the State of Minnesota.
David L. Schmitt
 5-7-81 Reg. No. 11651

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