

RAMSEY COUNTY
DEPARTMENT OF PUBLIC WORKS

McCARRONS, OTTER, OWASSO,
WABASSO, & WHITE BEAR
LAKES BOAT RAMP
RECONSTRUCTIONS

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PLANS SYMBOLS

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

UTILITIES SYMBOLS

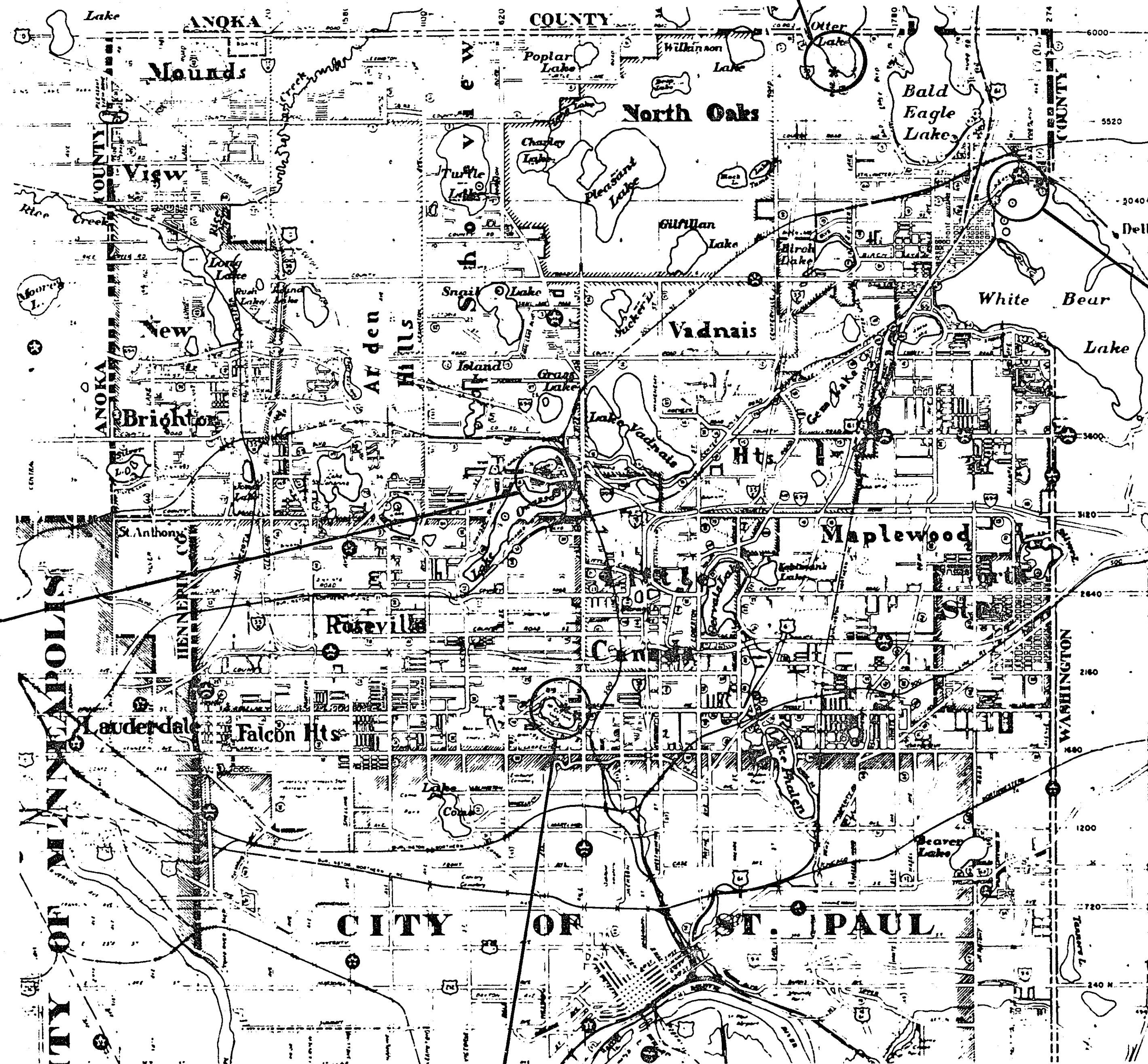
POWER POLE LINE	CONDUIT
TELEPHONE OR TELEGRAPH POLE LINE	TELEPHONE CABLE IN CONDUIT
JOINT TELEPHONE AND POWER ON POWER POLES	ELECTRIC CABLE IN CONDUIT
ANCHOR	TELEPHONE-MANHOLE
STEEL TOWER	ELECTRIC MANHOLE
STREET LIGHT	BURIED TELEPHONE CABLE
PEDESTAL TELEPHONE CABLE TERMINAL	BURIED ELECTRIC CABLE
GAS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

WABASSO & OWASSO
BOAT RAMP LOCATIONS

OTTER BOAT RAMP LOCATION

RAMP LOCATION
WHITE BEAR

McCARRONS BOAT RAMP LOCATION



NOTE SECTION NUMBERS READ FROM THE SOUTH

THE 1988 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATIONS "SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.

DESIGN SQUAD *KMR, DRB, JBT* DATE *11/1/89*
DRAWN BY *KMR, RPC, CMD* DATE *11/1/89*
CHECKED BY *KMR* DATE *11/1/89*

I 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 *11/1/89* REG NO *16159* ENGR *James E. Johnson*

RAMSEY COUNTY

RECOMMENDED FOR APPROVAL *DSS* TRAFFIC ENGR DATE *11/1/89*
RECOMMENDED FOR APPROVAL *DRB* DATE *11/4/89*
RECOMMENDED FOR APPROVAL *JTB* DATE *11/17/89*
RECOMMENDED FOR APPROVAL *RHP* DATE *11/1/89*
RECOMMENDED FOR APPROVAL *RLR* DATE *11/1/89*
RECOMMENDED FOR APPROVAL *JTB* DATE *11/1/89*
RECOMM'D *W. J. Johnson* DATE *11-1-89*
RECOMM'D ASSISTANT CO. ENGINEER DATE

RECOMMENDED FOR APPROVAL *Harold A. Urgan* DATE *12-4-89*
COUNTY ENGINEER
APPROVED *Harold A. Urgan* DATE
CHAIR OF THE RAMSEY COUNTY BOARD
APPROVED *James E. Johnson* DATE *11-1-89*
DIRECTOR-RAMSEY COUNTY PARKS AND RECREATION
APPROVED DATE

PLAN REVISIONS		
DATE	SHEET NO.	BY

ENV. 34

STATEMENT OF ESTIMATED QUANTITIES

ITEM NO.	CONTRACT ITEM	UNIT	ESTIMATED QUANTITY
McCARRONS LAKE			
2021.501	MOBILIZATION	L.S.	1
2105.505	MUCK EXCAVATION	C.Y.	99
2105.525	TOPSOIL BORROW (L.V.)	C.Y.	13
2211.501	COARSE AGGREGATE-15	TON	125
2211.501	AGGREGATE BASE, CLASS 5	TON	28
2331.514	BASE COURSE MIXTURE	TON	13
2341.508	WEAR COURSE MIXTURE	TON	13
2411.507	CONCRETE PLANKS	EACH	74
2411.507	CONCRETE ANCHOR PIER	EACH	1
2511.515	GEOTEXTILE FILTER IV	S.Y.	192
2535.501	BITUMINOUS CURB	L.F.	80
2573.505	FLOTATION SILT CURTAIN	L.S.	1
2575.505	SODDING	S.Y.	150
OTTER LAKE			
2021.501	MOBILIZATION	L.S.	1
2105.505	MUCK EXCAVATION	C.Y.	10
2211.501	COARSE AGGREGATE-15	TON	76
2511.515	GEOTEXTILE FILTER IV	S.Y.	174
2511.515	GEOWEB	S.Y.	107
2573.505	FLOTATION SILT CURTAIN	L.S.	1
OWASSO LAKE			
2021.501	MOBILIZATION	L.S.	1
2101.502	CLEARING	TREE	9
2101.507	GRUBBING	TREE	9
2104.509	REMOVE WOOD POSTS	EA.	10
2104.509	REMOVE GATE POSTS	EA.	2
2105.515	UNCLASSIFIED EXCAVATION	C.Y.	590
2105.525	TOPSOIL BORROW (LV)	C.Y.	62
2211.502	COARSE AGGREGATE-15	C.Y.	125
2211.501	AGGREGATE BASE, CLASS 5	TON	265
2331.514	BASE COURSE MIXTURE	TON	115
2341.508	WEAR COURSE MIXTURE	TON	115
2411.507	CONCRETE ANCHOR PIER	EACH	1
2411.507	CONCRETE PLANKS	EACH	74
2501.515	24" METAL APRON	EACH	1
2503.573	INSTALL CATCH BASIN	EACH	1
2511.515	GEOTEXTILE FILTER IV	S.Y.	192
2535.501	BITUMINOUS CURB	L.F.	520
2573.505	FLOTATION SILT CURTAIN	L.S.	1
2575.505	SODDING	S.Y.	745
WABASSO LAKE			
2021.501	MOBILIZATION	L.S.	1
2105.505	MUCK EXCAVATION	C.Y.	41
2211.501	COARSE AGGREGATE-15	TON	99
2211.501	AGGREGATE BASE, CLASS 5	TON	5
2331.514	BASE COURSE MIXTURE	TON	3
2341.508	WEAR COURSE MIXTURE	TON	3
2411.507	CONCRETE ANCHOR PIER	EACH	1
2411.502	CONCRETE PLANKS	EA.	28
2511.515	GEOTEXTILE FILTER IV	S.Y.	148
2411.507	GEOWEB	S.Y.	36
2535.501	BITUMINOUS CURB	L.F.	20
2573.505	FLOTATION SILT CURTAIN	L.S.	1

ITEM NO.	CONTRACT ITEM	UNIT	ESTIMATED QUANTITY
WHITE BEAR LAKE			
2021.501	MOBILIZATION	L.S.	1
2104.509	REMOVE CONCRETE BOAT RAMP	L.S.	1
2105.501	COMMON EXCAVATION	C.Y.	1639
2105.525	TOPSOIL BORROW (LV)	C.Y.	8
2211.501	COARSE AGGREGATE-15	TON	125
2211.501	AGGREGATE BASE, CLASS 5	TON	12
2331.514	BASE COURSE MIXTURE	TON	6
2341.508	WEAR COURSE MIXTURE	TON	6
2411.507	CONCRETE ANCHOR PIER	EACH	1
2411.507	CONCRETE PLANKS	EACH	74
2511.515	GEOTEXTILE FILTER IV	S.Y.	192
2431.501	CONC. CURB AND GUTTER, DES. B612	L.F.	33
2573.505	FLOTATION SILT CURTAIN	L.S.	1
2575.505	SODDING	S.Y.	100
2411.507	CONCRETE PLANKS (EXTRAS)*	EACH	25

CONSTRUCTION NOTES

FUNDING LIMITATIONS MAY NOT PERMIT CONSTRUCTION OF ALL FIVE BOAT RAMPS. IN THAT EVENT, THE COUNTY RESERVES THE RIGHT TO DELETE 1 OR MORE RAMPS PRIOR TO AWARD AND EVALUATE RESPONSIBLE BIDS ON THE BASIS OF THE DUCED SCOPE OF WORK.

ALL WORK MUST BE COMPLETED BY MAY 25, 1990.

BITUMINOUS REMOVAL IS INCIDENTAL TO EXCAVATION.

THE MATERIAL CATEGORIZED AS COMMON EXCAVATION IS EXPECTED TO BE A SANDY SOIL.

THE MATERIAL CATEGORIZED AS MUCK EXCAVATION IS EXPECTED TO BE A PEATY, ORGANIC SOIL.

THE MATERIAL CATEGORIZED AS UNCLASSIFIED EXCAVATION IS EXPECTED TO BE A COMBINATION OF SAND AND PEAT.

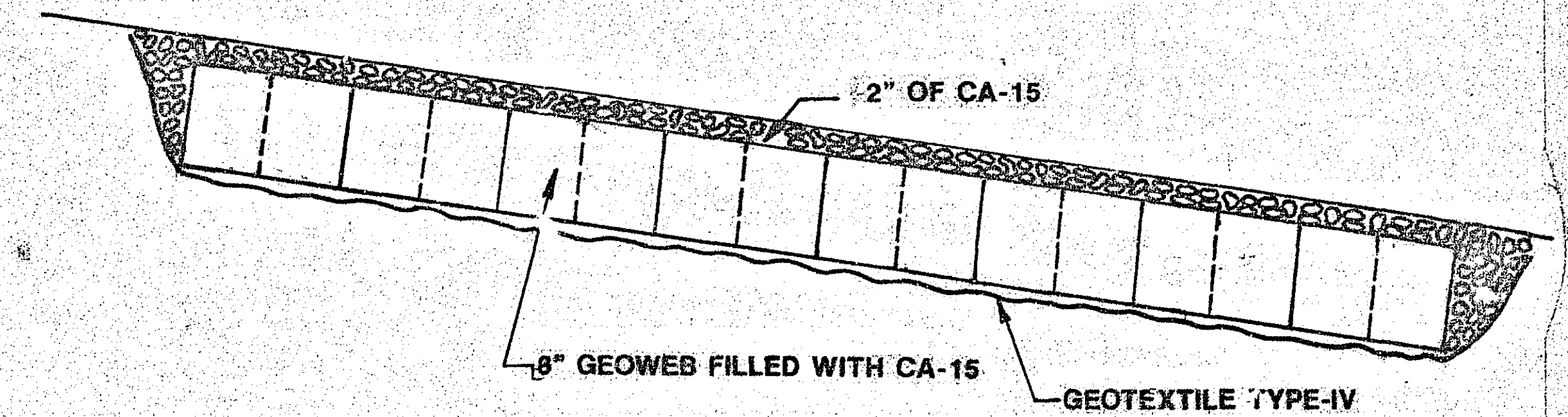
ALL CONSTRUCTION, EXCEPT AT OTTER LAKE, SHALL BE DONE IN A DRY OR NEAR DRY CONDITION.

PAVING AT OWASSO, McCARRONS AND WHITE BEAR LAKES SHALL BE DONE WITH A PAVING MACHINE IN ACCORDANCE WITH MN/DOT SPEC. 2331.3 C2a.

BITUMINOUS MATERIAL FOR MIXTURE AND TACK OIL SHALL BE INCIDENTAL TO PLANT-MIXED BITUMINOUS SURFACE.

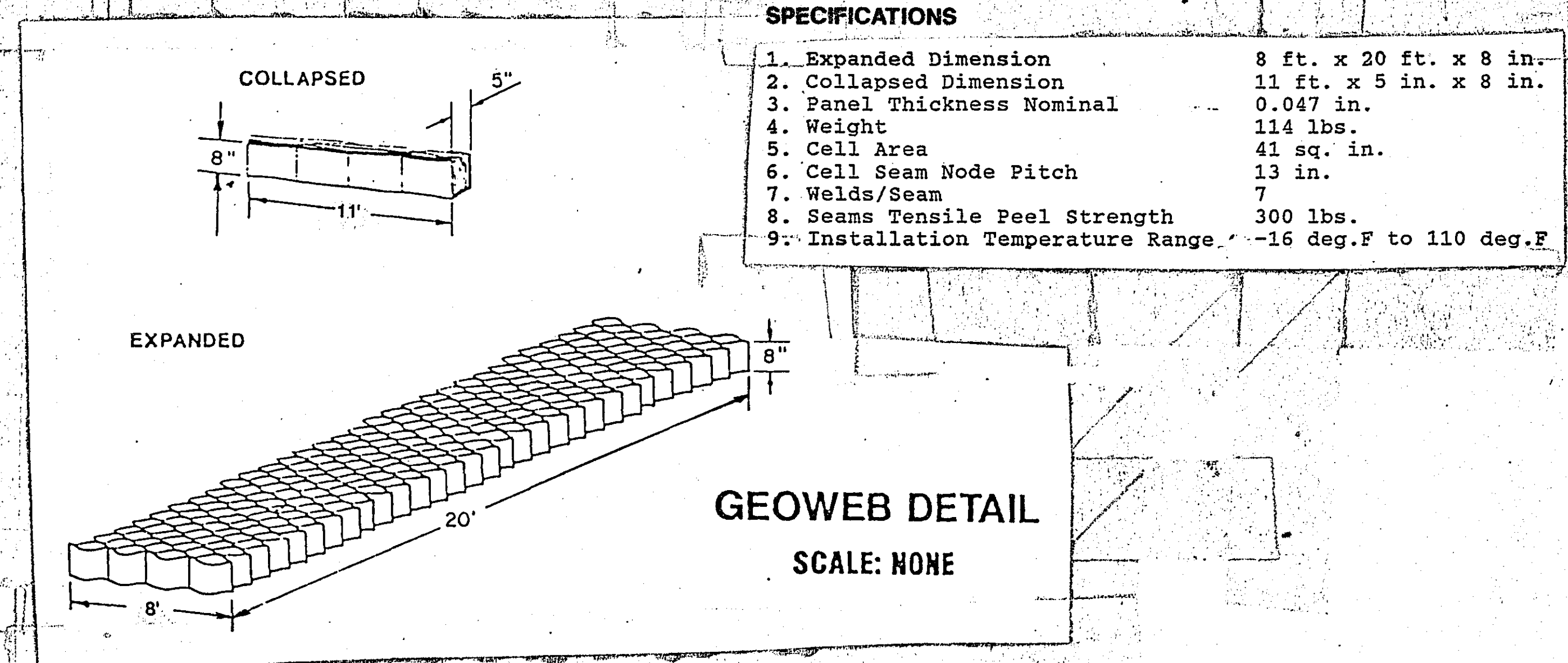
FLOTATION SILT FENCE AS PROVIDED FOR IN ITEM 2573.505 SHALL BE INSTALLED PRIOR TO AND MAINTAINED THROUGH THE DURATION OF EXCAVATION OF LAKE SEDIMENT AND CONSTRUCTION OF EARTHEN BERMS. NO MACHINE OPERATIONS WILL BE ALLOWED WITHIN THE WATER COLUMN WITHOUT SILT FENCE IN PLACE. CERTAIN METHODS OF CONSTRUCTION WHICH DO NOT ALLOW SILT TO DISPERSE INTO THE LAKE, SUCH AS USE OF STEEL SHEETING, WILL ALLEVIATE THE NEED FOR A FLOTATION SILT CURTAIN. ACCEPTABLE ALTERNATIVES WILL BE PAID FOR AS SILT CURTAIN.

ALL MATERIAL SUBSTITUTION REQUESTS SHALL BE SUBMITTED IN WRITING TO THE ENGINEER PRIOR TO DELIVERY TO THE SITE. REQUESTS SHALL BE MADE SO THAT THERE IS A SUFFICIENT AMOUNT OF TIME TO RESPOND TO THE REQUEST WITHOUT DELAYING WORK PROGRESS.



GEOWEB BOAT RAMP TYPICAL SECTION

SCALE: 1" = 1'

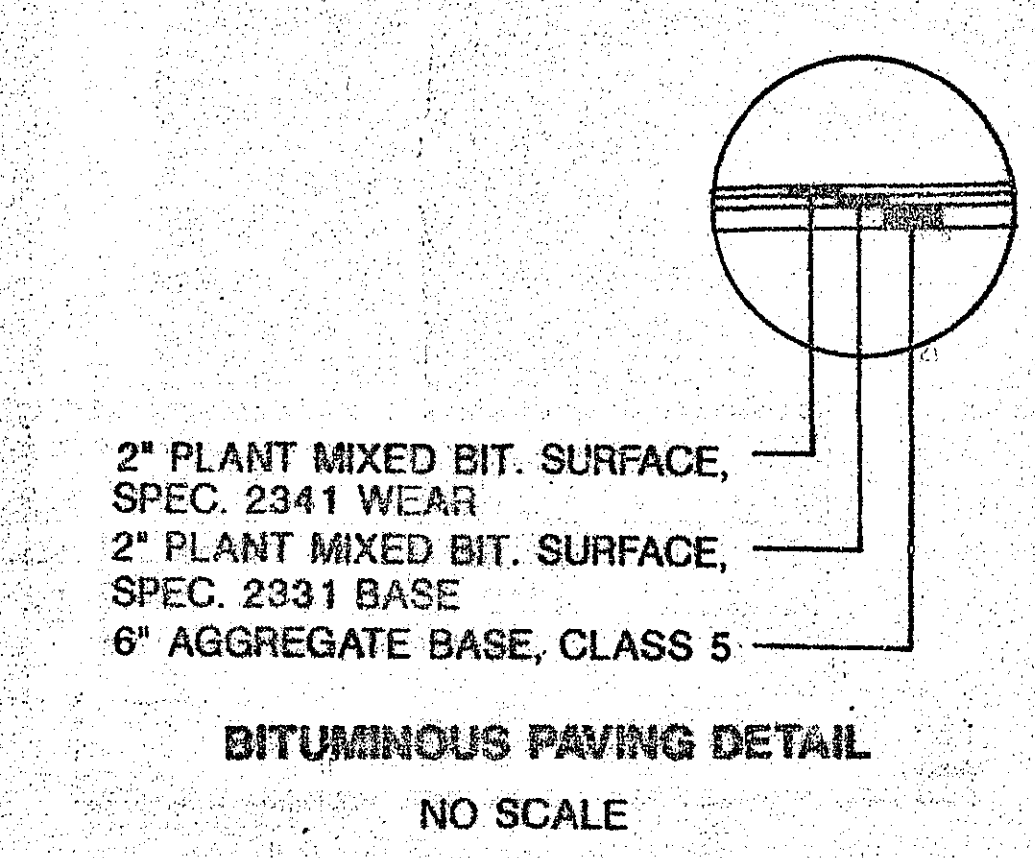


SPECIFICATIONS

- | | |
|-----------------------------------|------------------------|
| 1. Expanded Dimension | 8 ft. x 20 ft. x 8 in. |
| 2. Collapsed Dimension | 11 ft. x 5 in. x 8 in. |
| 3. Panel Thickness Nominal | 0.047 in. |
| 4. Weight | 114 lbs. |
| 5. Cell Area | 41 sq. in. |
| 6. Cell Seam Node Pitch | 13 in. |
| 7. Welds/Seam | 7 |
| 8. Seams Tensile Peel Strength | 300 lbs. |
| 9. Installation Temperature Range | -16 deg.F to 110 deg.F |

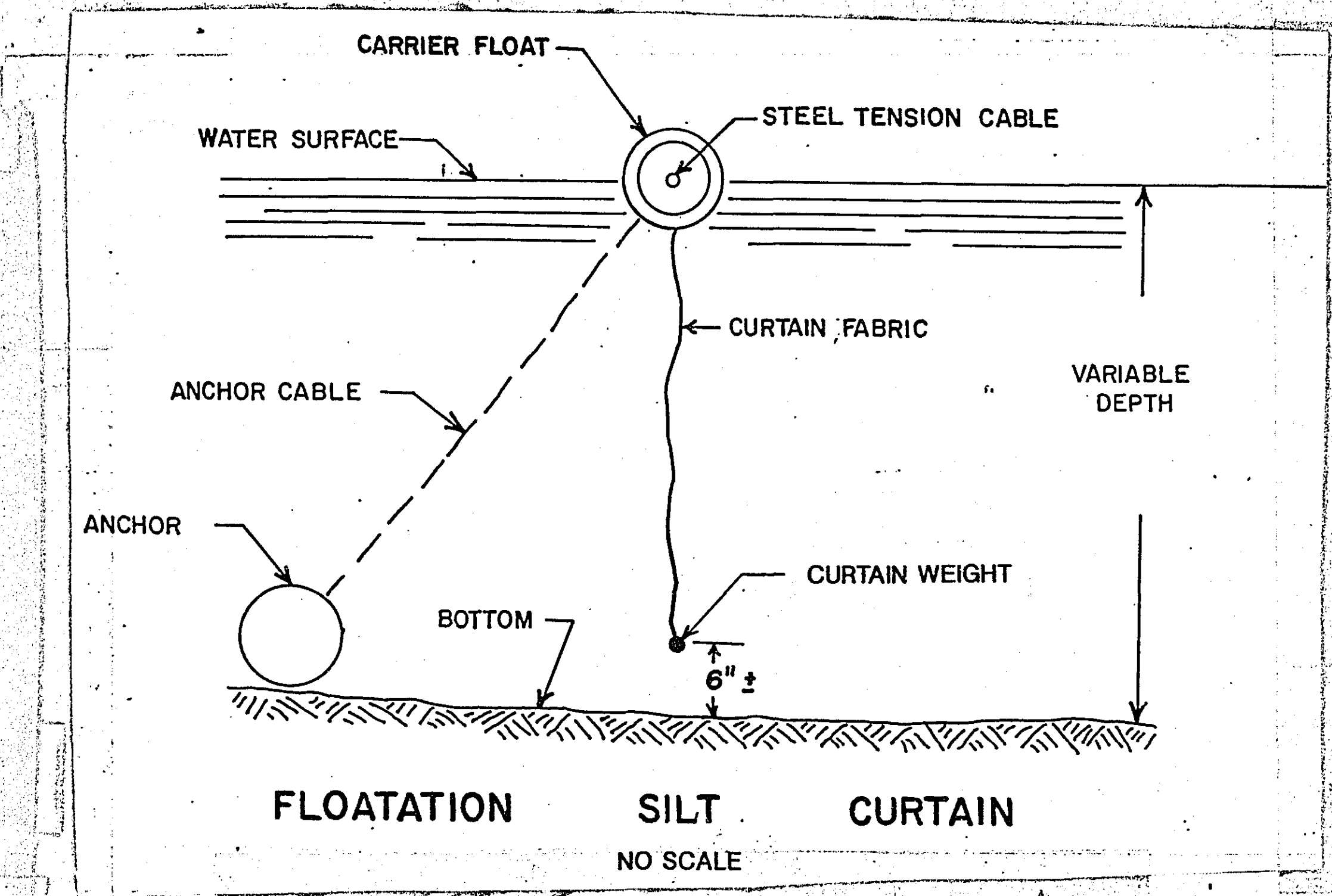
GEOWEB DETAIL

SCALE: NONE



2" PLANT MIXED BIT. SURFACE,
SPEC. 2341 WEAR
2" PLANT MIXED BIT. SURFACE,
SPEC. 2331 BASE
6" AGGREGATE BASE, CLASS 5

BITUMINOUS PAVING DETAIL
NO SCALE

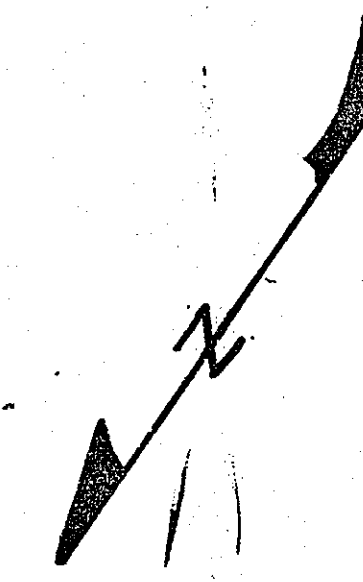


FLOTATION SILT CURTAIN

NO SCALE

McCARRONS LAKE BOAT RAMP

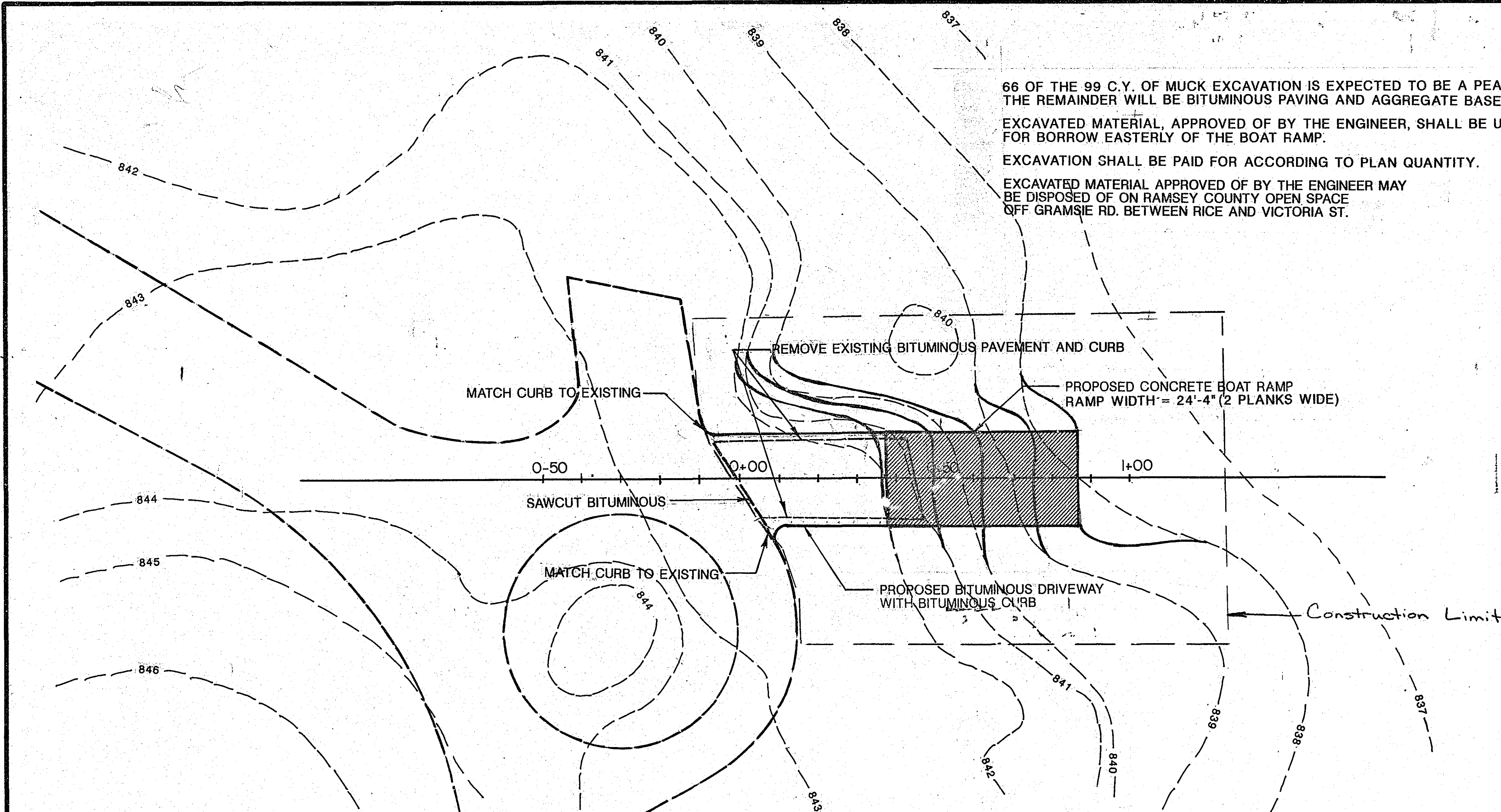
SCALE 1" = 20'



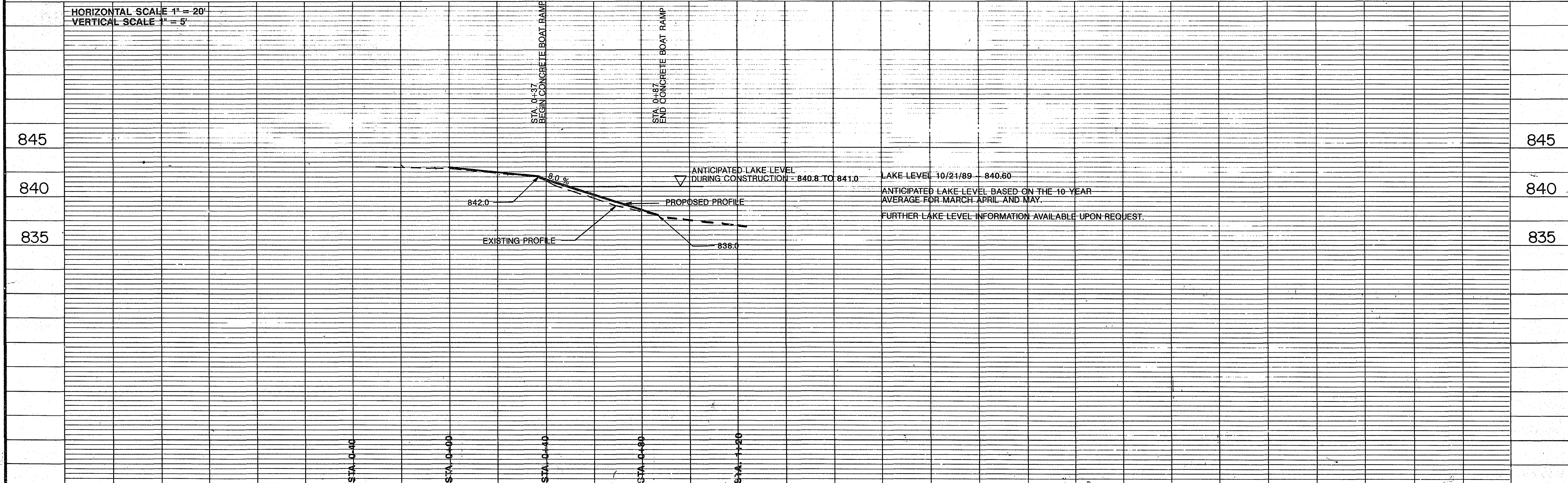
66 OF THE 99 C.Y. OF MUCK EXCAVATION IS EXPECTED TO BE A PEATY, ORGANIC MATERIAL. THE REMAINDER WILL BE BITUMINOUS PAVING AND AGGREGATE BASE.
 EXCAVATED MATERIAL, APPROVED OF BY THE ENGINEER, SHALL BE USED FOR BORROW EASTERLY OF THE BOAT RAMP.
 EXCAVATION SHALL BE PAID FOR ACCORDING TO PLAN QUANTITY.
 EXCAVATED MATERIAL APPROVED OF BY THE ENGINEER MAY BE DISPOSED OF ON RAMSEY COUNTY OPEN SPACE OFF GRAMSIE RD. BETWEEN RICE AND VICTORIA ST.

CONSTRUCTION NOTES

ALL CONSTRUCTION SHALL BE PERFORMED IN A DRY OR NEAR DRY CONDITION.
 EXCAVATION SHALL BE PAID FOR ON THE BASIS OF PLAN QUANTITY.
 CONSTRUCTION AND REMOVAL OF A BERM OR OTHER BARRIER DEVICE TO FACILITATE DEWATERING IS INCIDENTAL TO COMMON EXCAVATION. BERM MATERIAL MUST BE DISPOSED OF OFFSITE AT A LOCATION APPROVED OF BY THE ENGINEER.
 SEE SHEET NO. 3 FOR CONCRETE PLANKS AND HARDWARE DETAILS.
 CONTRACTOR SHALL SAFEGUARD ALL PARK AMENITIES (PICNIC TABLES, SHELTERS, ETC.). ANY DAMAGE TO SUCH STRUCTURES SHALL BE REPAIRED AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL ASSUME ALL COSTS ASSOCIATED WITH SUCH WORK.
 THE CONTRACTOR SHALL CONFINE ALL WORK ACTIVITIES WITHIN THE CONSTRUCTION LIMITS SHOWN. ANY CORRECTIVE WORK REQUIRED OUTSIDE THOSE LIMITS SHALL BE AT THE CONTRACTOR'S EXPENSE, AND BE SUBJECT TO APPROVAL BY THE ENGINEER.

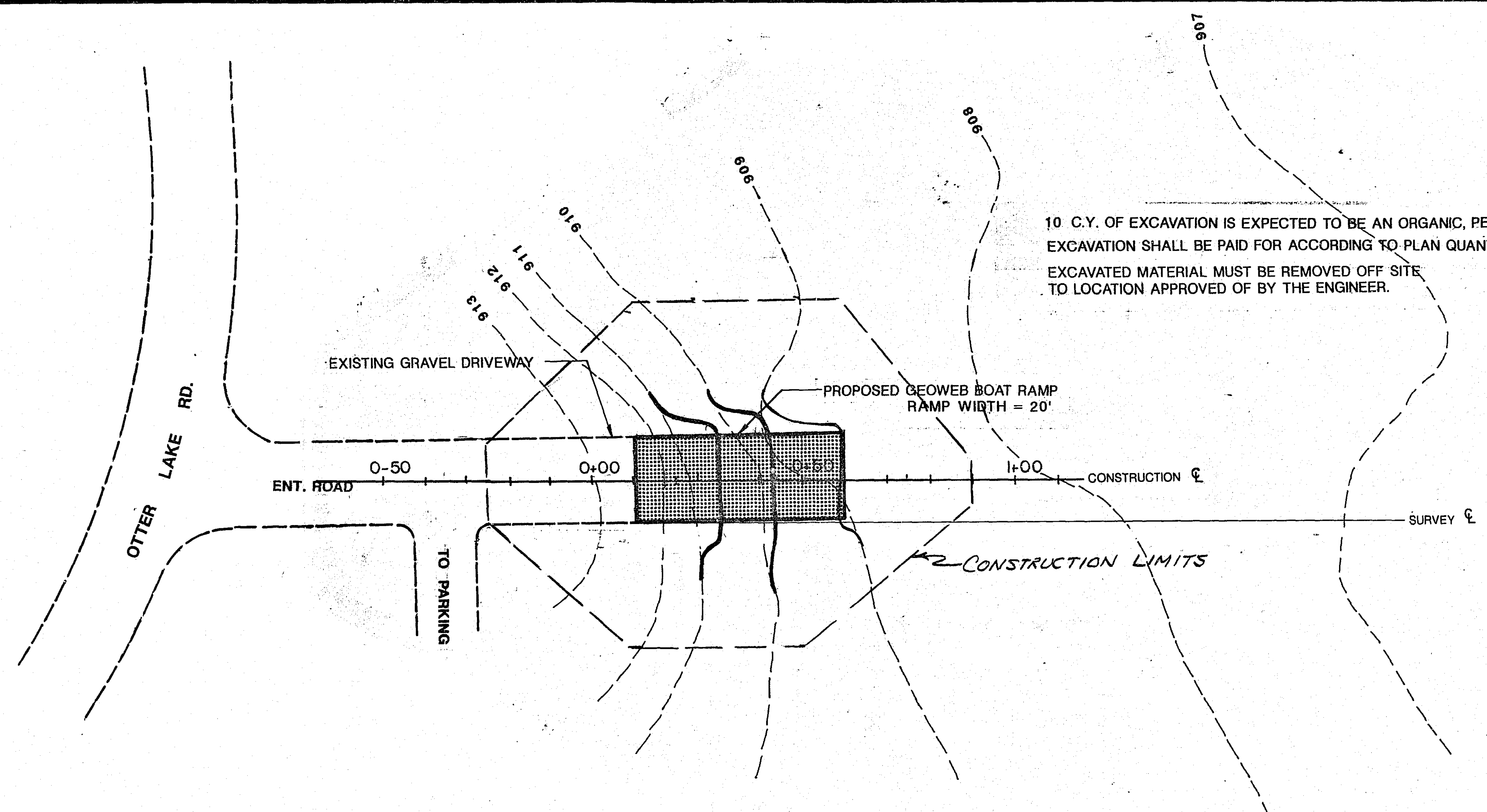
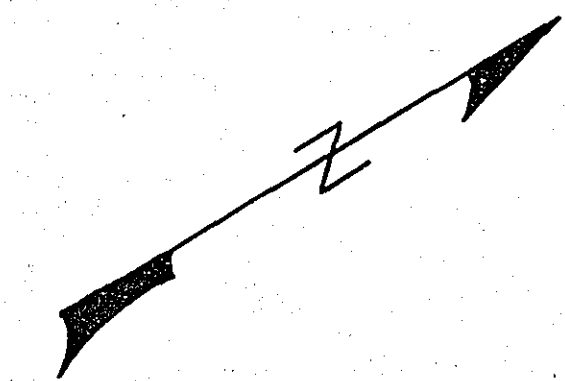


HORIZONTAL SCALE 1" = 20'
 VERTICAL SCALE 1" = 5'



OTTER LAKE BOAT RAMP

SCALE 1" = 20'



10 C.Y. OF EXCAVATION IS EXPECTED TO BE AN ORGANIC, PEATY SOIL. EXCAVATION SHALL BE PAID FOR ACCORDING TO PLAN QUANTITY. EXCAVATED MATERIAL MUST BE REMOVED OFF SITE TO LOCATION APPROVED OF BY THE ENGINEER.

CONSTRUCTION NOTES

CONSTRUCTION MAY BE PERFORMED IN A DRY OR A WET CONDITION, SUBJECT TO THE APPROVAL OF CONSTRUCTIONS METHODS BY THE ENGINEER.

EXCAVATION SHALL BE PAID FOR ON THE BASIS OF PLAN QUANTITY.

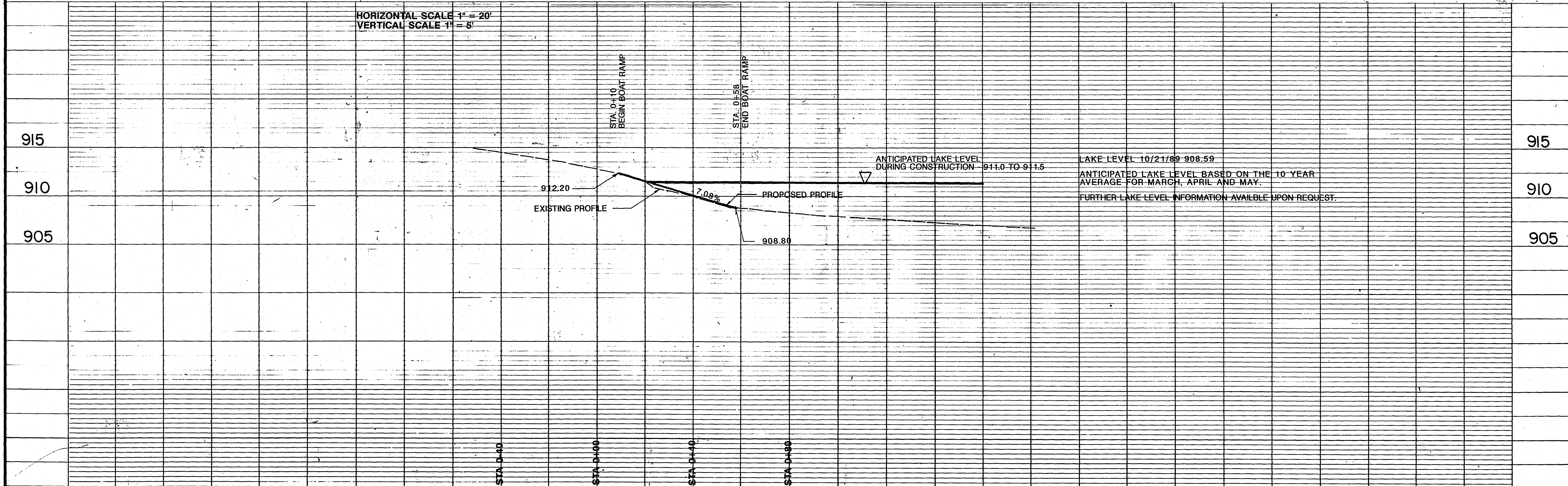
CONSTRUCTION AND REMOVAL OF A BERM OR OTHER BARRIER DEVICE TO FACILITATE DEWATERING IS INCIDENTAL TO COMMON EXCAVATION. BERM MATERIAL MUST BE DISPOSED OF OFFSITE AT A LOCATION APPROVED OF BY THE ENGINEER.

SEE SHEET 2 FOR GEOWEB DETAILS.

CONTRACTOR SHALL SAPEGUARD ALL PARK AMENITIES (PICNIC TABLES, SHELTERS, ETC.). ANY DAMAGE TO SUCH STRUCTURES SHALL BE REPAIRED AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL ASSUME ALL COSTS ASSOCIATED WITH SUCH WORK.

THE CONTRACTOR SHALL CONFINE ALL WORK ACTIVITIES WITHIN THE CONSTRUCTION LIMITS SHOWN. ANY CORRECTIVE WORK REQUIRED OUTSIDE THOSE LIMITS SHALL BE AT THE CONTRACTOR'S EXPENSE, AND BE SUBJECT TO APPROVAL BY THE ENGINEER.

HORIZONTAL SCALE 1" = 20'
VERTICAL SCALE 1" = 5'

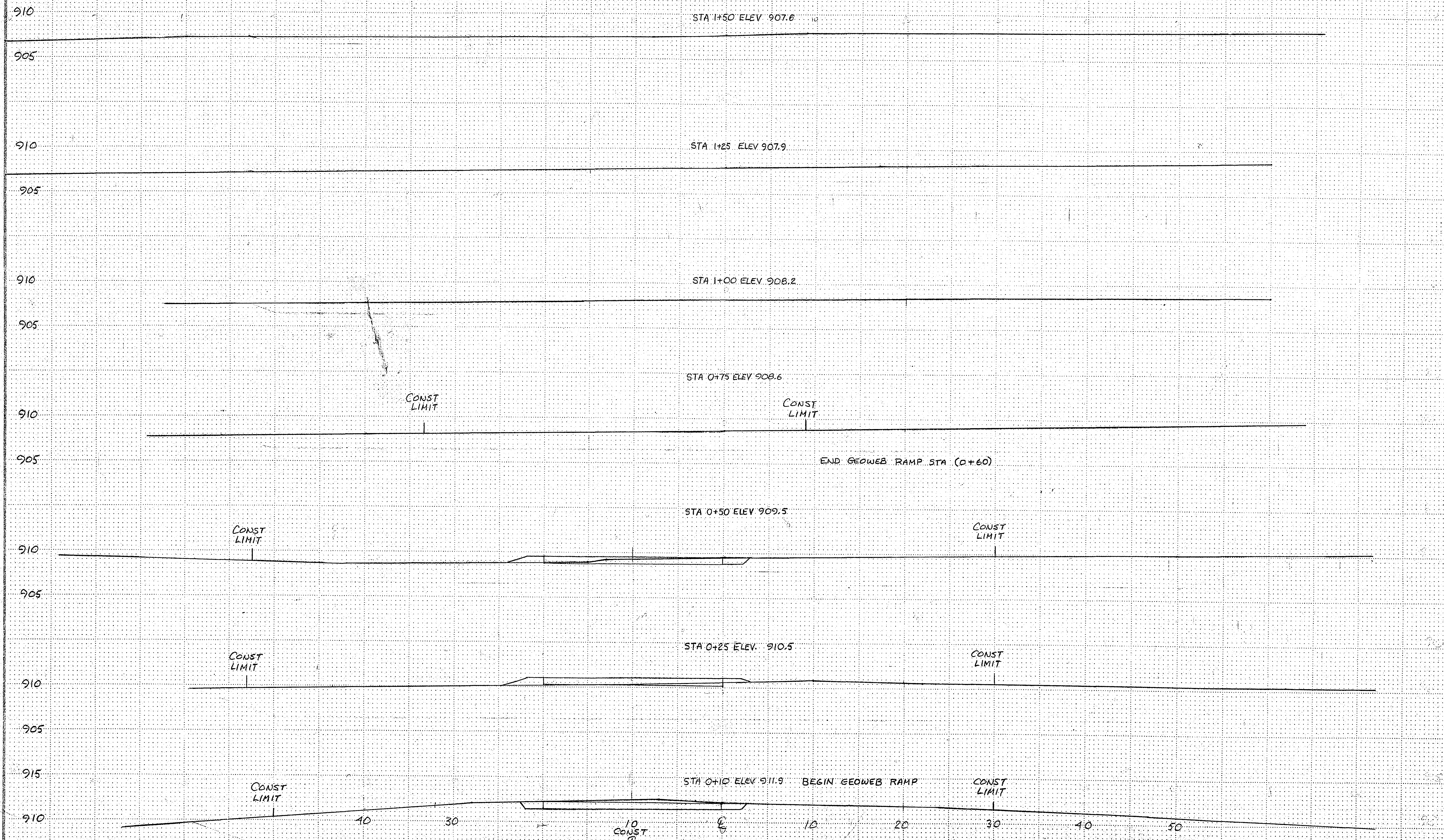


ANTICIPATED LAKE LEVEL DURING CONSTRUCTION 911.0 TO 911.5

LAKE LEVEL 10/21/89 908.59

ANTICIPATED LAKE LEVEL BASED ON THE 10 YEAR AVERAGE FOR MARCH, APRIL AND MAY. FURTHER LAKE LEVEL INFORMATION AVAILBLE UPON REQUEST.

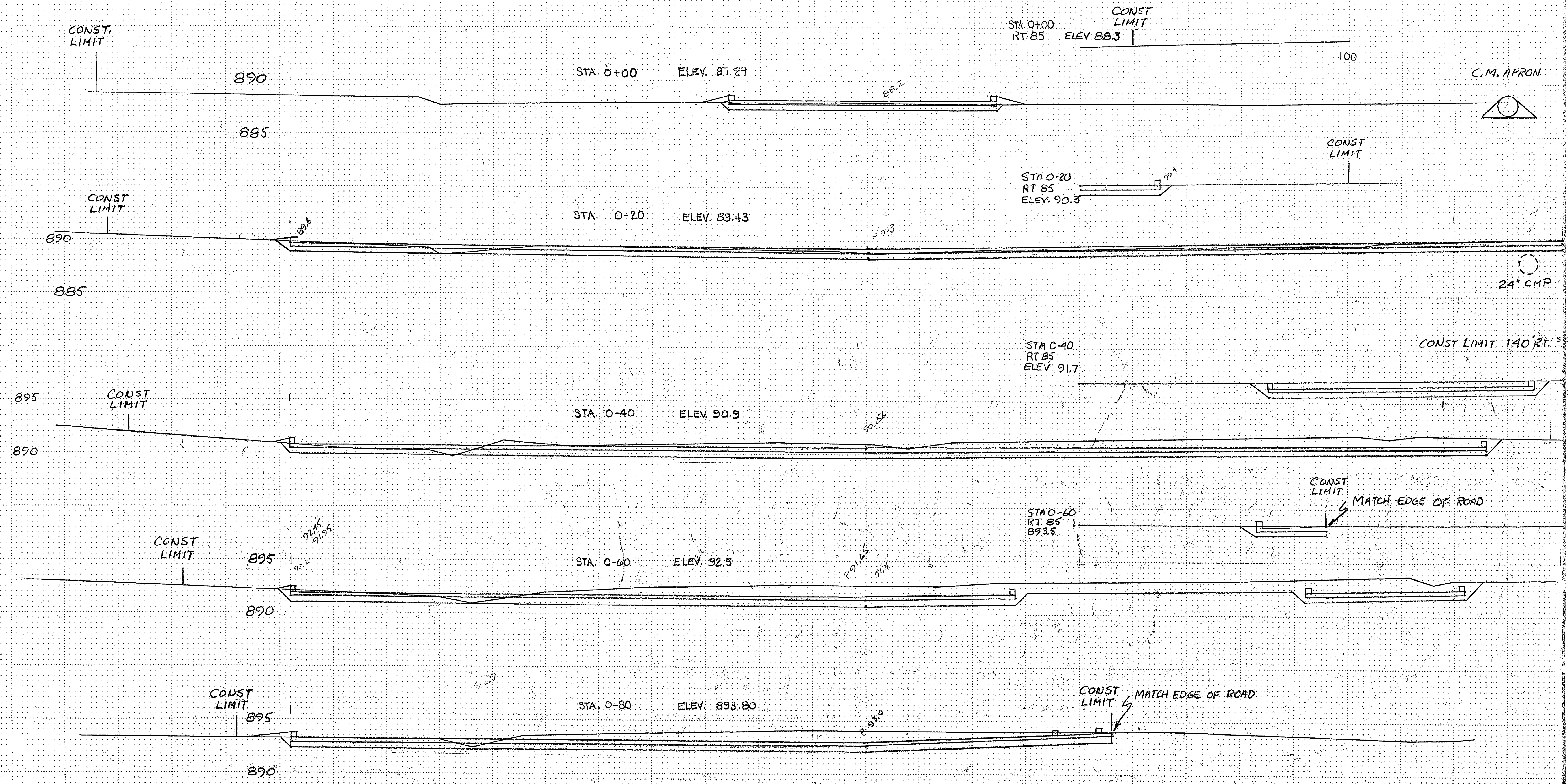
HORIZONTAL SCALE 1"=5'
VERTICAL SCALE 1"=5'



COPY EQUIPMENT FORM #1

HORIZONTAL SCALE 1"=5'
VERTICAL SCALE 1"=5'

CONCRETE PLANK RAMP BEGINS AT STA 0+02



COPY EQUIPMENT FORM #1

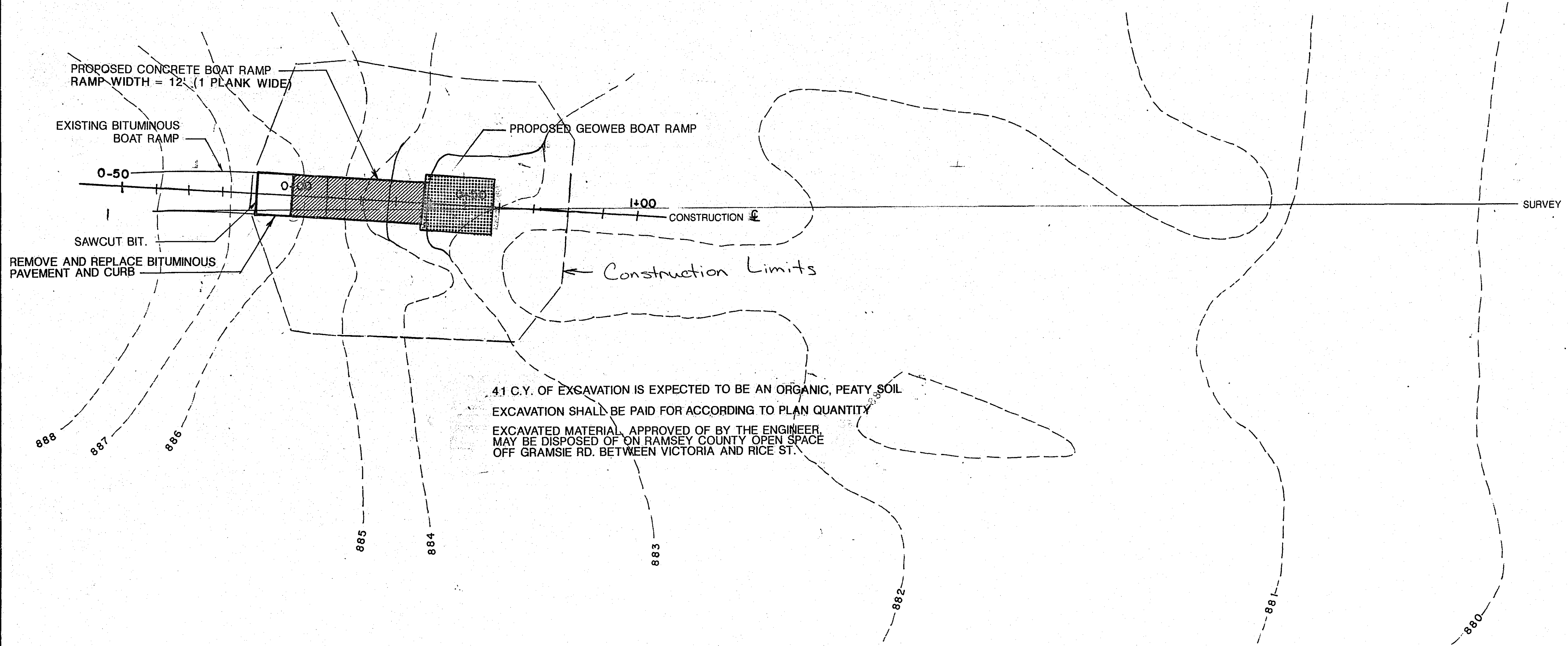
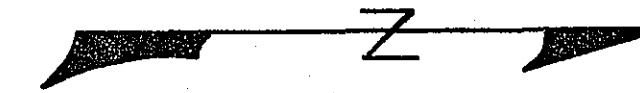


CONCRETE PLANK RAMP ENDS AT 0+52

COPY EQUIPMENT (1/24) #

WABASSO LAKE BOAT RAMP

SCALE 1" = 20'



4.1 C.Y. OF EXCAVATION IS EXPECTED TO BE AN ORGANIC, PEATY SOIL
EXCAVATION SHALL BE PAID FOR ACCORDING TO PLAN QUANTITY
EXCAVATED MATERIAL, APPROVED OF BY THE ENGINEER,
MAY BE DISPOSED OF ON RAMSEY COUNTY OPEN SPACE
OFF GRAMSIE RD. BETWEEN VICTORIA AND RICE ST.

CONSTRUCTION NOTES

ALL CONSTRUCTION SHALL BE PERFORMED IN A DRY OR NEAR DRY CONDITION.

EXCAVATION SHALL BE PAID FOR ON THE BASIS OF PLAN QUANTITY.

CONSTRUCTION AND REMOVAL OF A BERM OR OTHER BARRIER DEVICE TO FACILITATE DEWATERING IS INCIDENTAL TO COMMON EXCAVATION. BERM MATERIAL MUST BE DISPOSED OF OFFSITE AT A LOCATION APPROVED OF BY THE ENGINEER.

SEE SHEET NO. 3 FOR CONCRETE PLANKS AND HARDWARE DETAILS. SEE SHEET 2 FOR GEOWEB DETAILS.

CONTRACTOR SHALL SAFEGUARD ALL PARK AMENITIES (PICNIC TABLES, SHELTERS, ETC.). ANY DAMAGE TO SUCH STRUCTURES SHALL BE REPAIRED AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL ASSUME ALL COSTS ASSOCIATED WITH SUCH WORK.

THE CONTRACTOR SHALL CONFINE ALL WORK ACTIVITIES WITHIN THE CONSTRUCTION LIMITS SHOWN. ANY CORRECTIVE WORK REQUIRED OUTSIDE THOSE LIMITS SHALL BE AT THE CONTRACTOR'S EXPENSE, AND BE SUBJECT TO APPROVAL BY THE ENGINEER.

HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE 1" = 5'

STA. 0+00 BEGIN CONCRETE BOAT RAMP

STA. 0+38 END CONCRETE PLANKS BEGIN GEOWEB BOAT RAMP

STA. 0+58 END BOAT RAMP

890

885

880

890

885

880

ANTICIPATED LAKE LEVEL DURING CONSTRUCTION - 885.4 TO 885.9

LAKE LEVEL 10/21/89 - 883.10

ANTICIPATED LAKE LEVEL BASED ON THE 10 YEAR AVERAGE FOR MARCH, APRIL AND MAY.

FURTHER LAKE LEVEL INFORMATION AVAILABLE UPON REQUEST.

886.8

PROPOSED PROFILE

EXISTING PROFILE

883.0

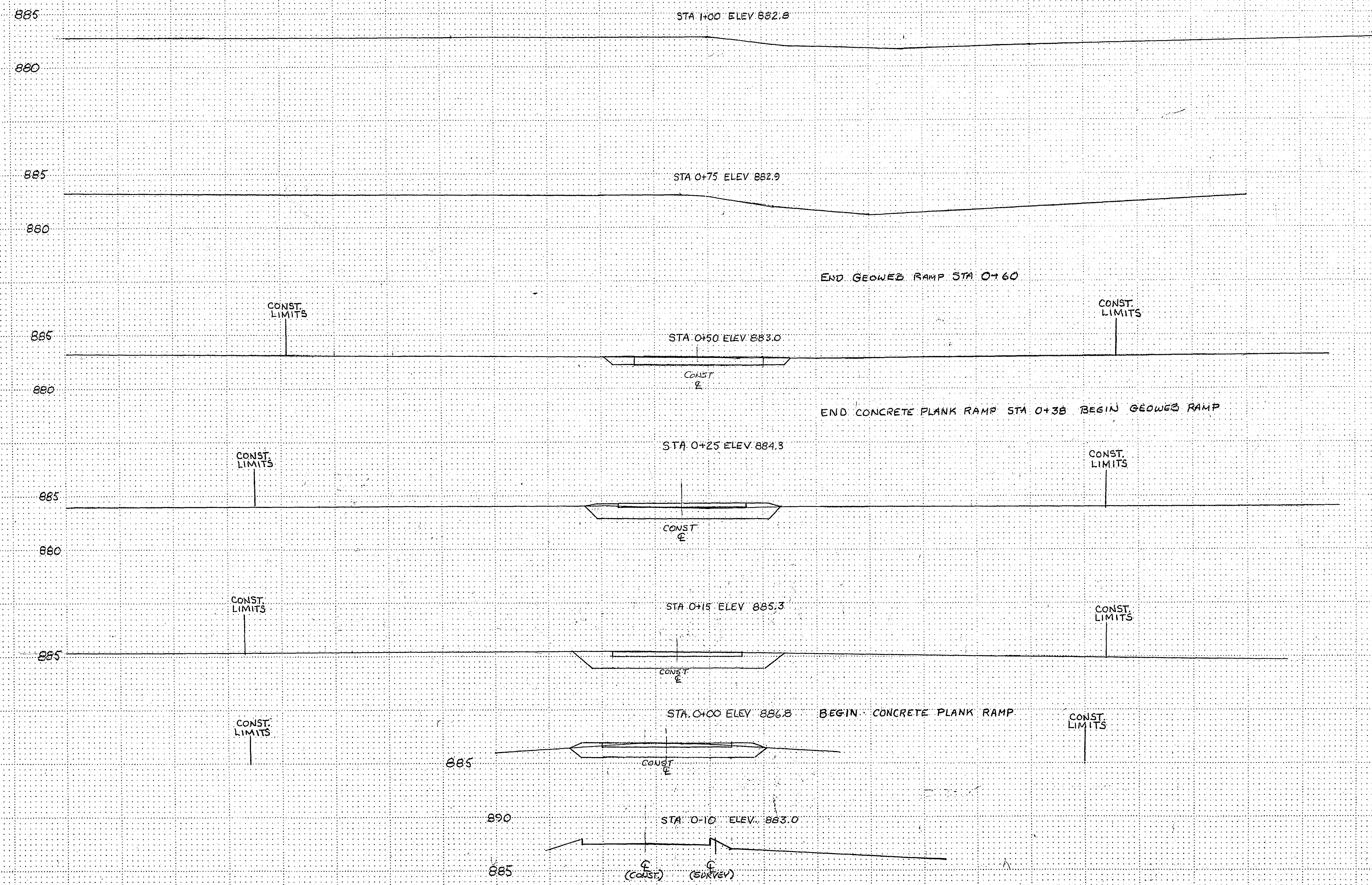
STA. 0+40

STA. 0+60

STA. 0+80

STA. 0+90

HORIZONTAL SCALE 1"=5'
VERTICAL SCALE 1"=5'

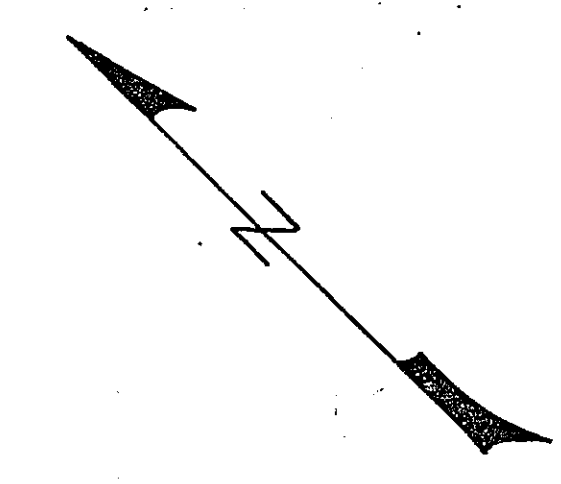


10 20

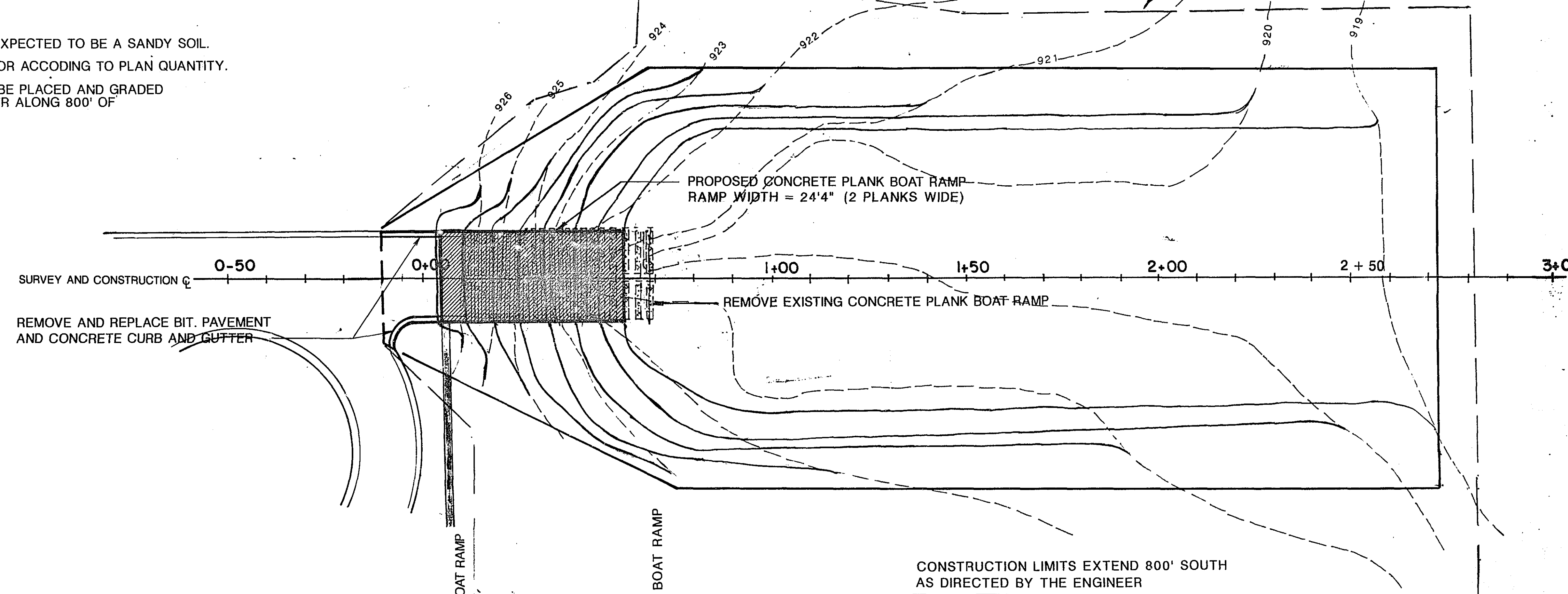
COPY EQUIPMENT FROM # 10221

WHITE BEAR LAKE BOAT RAMP

SCALE 1" = 20'



1639 C.Y. OF EXCAVATION IS EXPECTED TO BE A SANDY SOIL.
EXCAVATION SHALL BE PAID FOR ACCORDING TO PLAN QUANTITY.
EXCAVATED MATERIAL SHALL BE PLACED AND GRADED
AS DIRECTED BY THE ENGINEER ALONG 800' OF
ADJOINING BEACH FRONTAGE.



CONSTRUCTION NOTES

ALL CONSTRUCTION SHALL BE PERFORMED IN A DRY OR NEAR DRY CONDITION.

EXCAVATION SHALL BE PAID FOR ON THE BASIS OF PLAN QUANTITY.

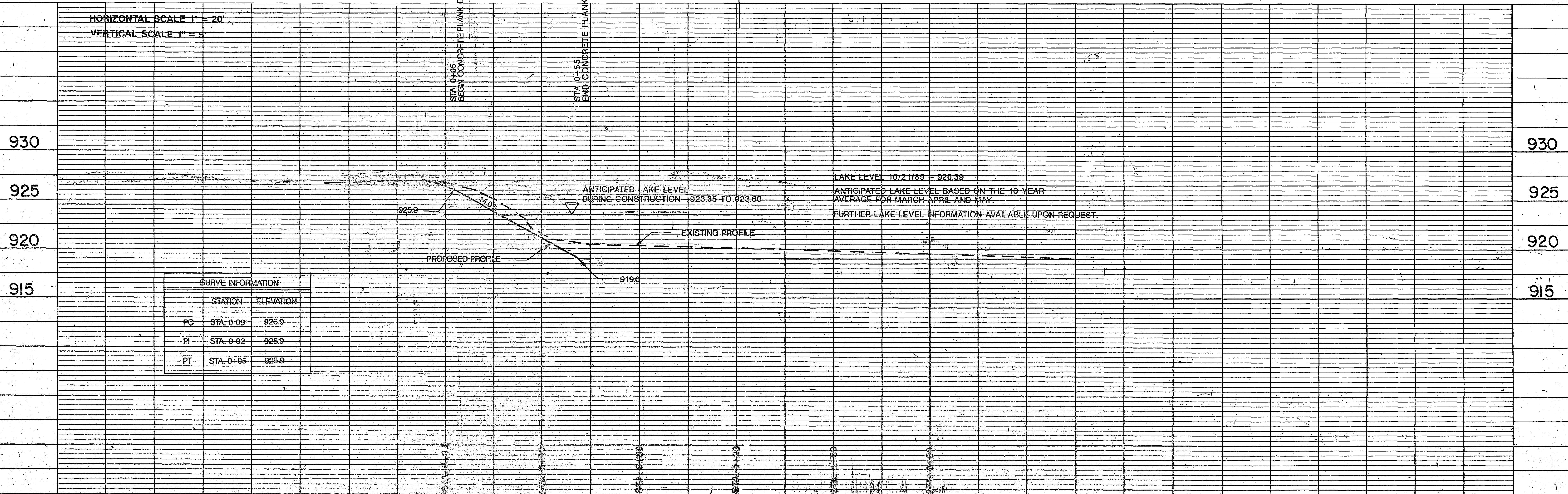
CONSTRUCTION AND REMOVAL OF A BERM OR OTHER BARRIER DEVICE TO FACILITATE DEWATERING IS INCIDENTAL TO COMMON EXCAVATION. BERM MATERIAL MUST BE DISPOSED OFFSITE AT A LOCATION APPROVED OF BY THE ENGINEER.

SEE SHEET NO. 3 FOR CONCRETE PLANKS AND HARDWARE DETAILS.

CONTRACTOR SHALL SAFEGUARD ALL PARK AMENITIES (PICNIC TABLES, SHELTERS, ETC.). ANY DAMAGE TO SUCH STRUCTURES SHALL BE REPAIRED AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL ASSUME ALL COSTS ASSOCIATED WITH SUCH WORK.

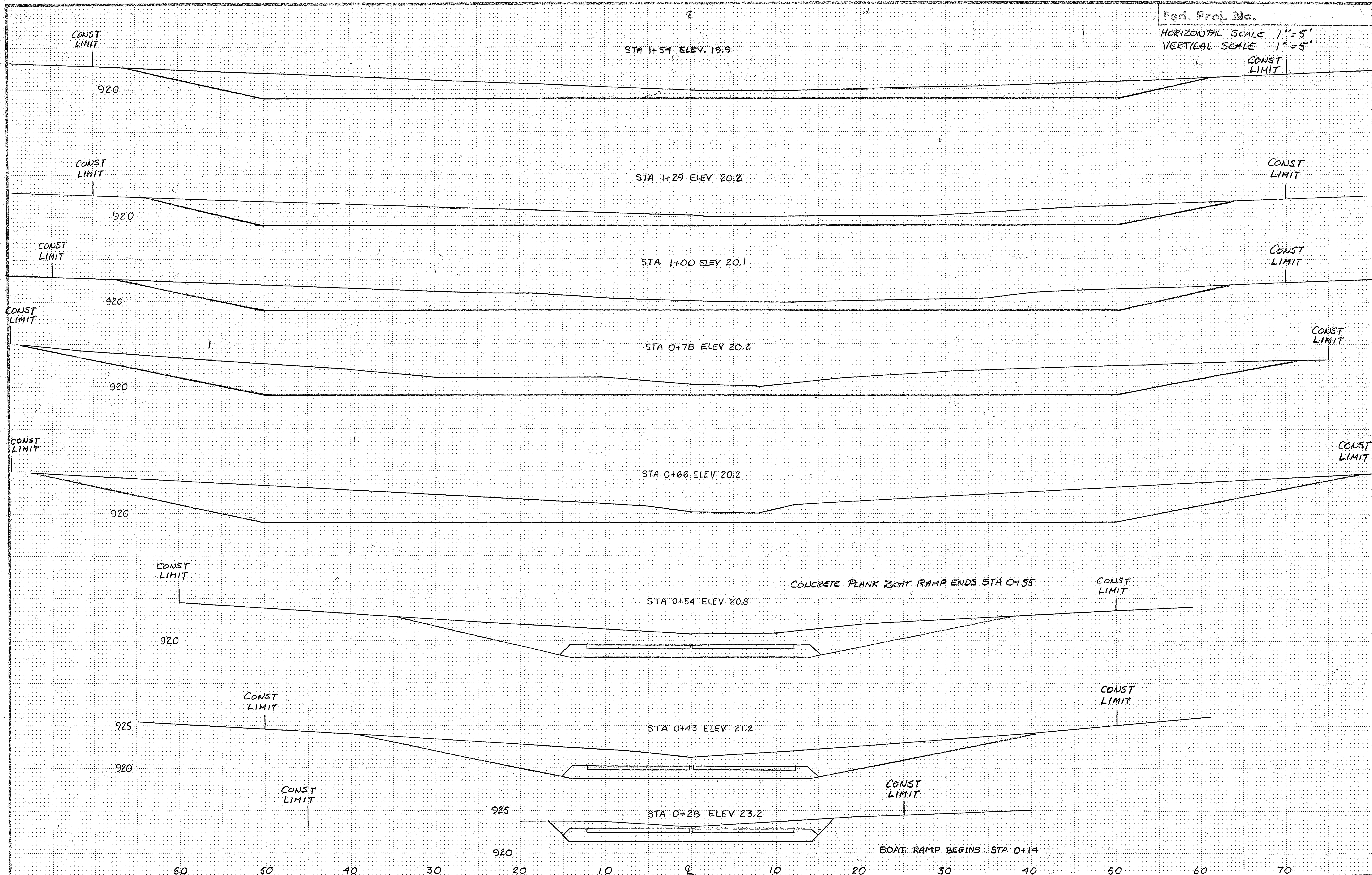
THE CONTRACTOR SHALL CONFINE ALL WORK ACTIVITIES WITHIN THE CONSTRUCTION LIMITS SHOWN. ANY CORRECTIVE WORK REQUIRED OUTSIDE THOSE LIMITS SHALL BE AT THE CONTRACTOR'S EXPENSE, AND BE SUBJECT TO APPROVAL BY THE ENGINEER.

HORIZONTAL SCALE 1" = 20'
VERTICAL SCALE 1" = 5'

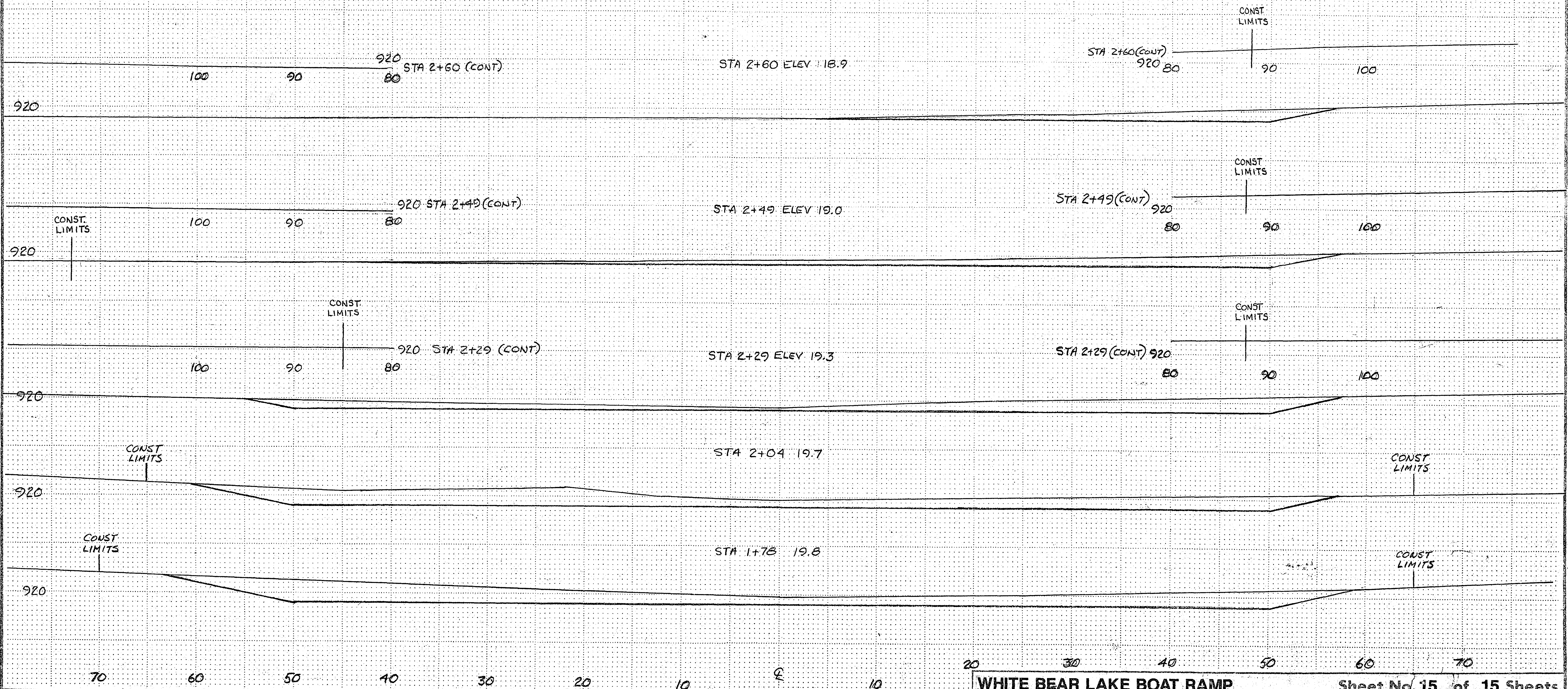


CURVE INFORMATION		
	STATION	ELEVATION
PC	STA. 0+09	926.0
PI	STA. 0+02	926.9
PT	STA. 0+05	925.9

Fed. Proj. No.
HORIZONTAL SCALE 1"=5'
VERTICAL SCALE 1"=5'



WHITE BEAR LAKE BOAT RAMP



COPY EQUIPMENT FROM #1