REV	DESCRIPTION	BY	DATE	CHK'D
1	ISSUED FOR BIDS	RLH	SEPT., 94	BWL
2				
3				
4				
5				

Note: 1. ●"3 Indicates number and location of soil borings. For logs of borings see Specs.
2. Borings are in progress, logs will be issued by addendum.

RUINS On the west shore of the East Arm of the bay, about 3,500 north of Eastern Avenue on point marked "Ruins" on Lake Survey Chart 206. Iron bar on line between Station A and Station Pine on Sand ridge

N

"A" in Traverse City on hydr. 500± N of Eastern Ave. El. 603.41

EASTERN AVE.

WATER PLANT SITE

Sta. 0+00.7

EAST BAY BLVD.

BIRCHWOOD

BIRCHWOOD ADDITION

EAST BAY

Proposed Low Service Pumping Station

Point "A" Sta 11+64.27

End of Contract No.1

4" iron pipe

From Crib to N. edge of Drive-In Theater screen

Proposed 36" intake pipe 4021.83' (Point 'A' to 2 intake crib)

#3 #2 #2A #1

Sta 43+50

Emergency Tee intake See detail, this sheet

Proposed intake cr.

36" blanked wye for future extension

To Station Acme

310.30'

92°18'

75 Sta Acme

22°38'20"

97°42'

41°52'30"

41°-17'-30"

22°-11'-40"

800' 800' 400' 300' 1240' 150'

INTAKE CRIB NOTES:

1. THE EXISTING RAW WATER INTAKE STRUCTURE HAS ROTATED APPROXIMATELY 5-DEGREES FROM TRUE VERTICAL ALIGNMENT. RE-ALIGN THE EXISTING STRUCTURE AND PROVIDE ADDITIONAL FOUNDATION AND/OR STABILIZATION MATERIALS TO PREVENT FUTURE SETTLEMENT. SEE PROJECT MANUAL.

2. FURNISH AND INSTALL A FABRICATED STEEL BAFFLE SKIRT AT THE EXISTING STRUCTURE TO CONTAIN CHLORINE SOLUTION FOR ZEBRA MUSSEL CONTROL. SEE SHEET 3

SCALE: HOR. 1" = 200'
VERT. 1" = 10'

LOCATION PLAN 1" = 6800'

WEST ARM
EAST ARM
Old Mission Peninsula
M-37
Ruins
Traverse City
Sta 9+49 to Intake Well 2
#5 #4 #3 #2 #2A #1
Water level June 21, 1963 - El 578.16 - U.S.G.S. Datum
114.67'
5.33'
Sta 4+64
Sta 10+88
36" Inv. El 564.97
120'
@ 0.25%
259.80' - 36" @ 0.257 %
Spec. Class B reinf. conc. pipe or steel pipe
36" Inv El 557.00
310.36 ± 780
310.40 ± 200 ±
Sta 49+50
36" Inv El 546.0
1500' - 36" @ 1.6%
Spec. Class A reinf. conc. pipe or
El 558.0 ? Top of Pig
Emergency Intake See detail this sheet
Sta 43+50
Top of Intake Structure El 546.5
Top of Bell Mouth See sht 1 of 2
Line of Intake 2
6" wye with blank flg.
150'
@ 1.5%
Sta 49+50
36" Inv El 546.0

Note: 1. Elevations shown are U.S.G.S. datum. To convert to I.G.L.D. subtract 1.70'.
2. Contractor shall provide range and water gage at 600' intervals

RAW WATER INTAKE PIPE NOTES:

1. FURNISH AND INSTALL A NEW 2" HIGH DENSITY POLYETHELENE (HDPE) CHLORINE SOLUTION LINE FROM THE LOW SERVICE PUMP STATION TO THE RAW WATER INTAKE STRUCTURE.

2. PROVIDE A WEIGHT OR ANCHOR SYSTEM TO HOLD THE NEW CHLORINE SOLUTION PIPING IN PLACE UNDER A MAXIMUM RAW WATER VELOCITY OF 3½ FEET PER SECOND IN THE EXISTING INTAKE PIPE. FURNISH DETAILS OF THE PROPOSED SYSTEM FOR APPROVAL PRIOR TO INSTALLATION.

THIS DRAWING WAS ORIGINALLY ISSUED IN 1964 BY MCNAMEE, PORTER & SEELEY. CONTRACT 1, SHEET 1 OF 2. IT HAS BEEN MODIFIED FOR THIS CONTRACT TO SHOW NEW WORK.

ENCIRCLED AREA DENOTES NEW WORK

Ann Arbor, Michigan
Detroit, Michigan
Escanaba, Michigan
Grand Rapids, Michigan
Lansing, Michigan

McNAMEE
ENGINEERING EXCELLENCE SINCE 1914

McNAMEE, PORTER & SEELEY, INC.

DESIGNED R. HOBBS	CHECKED B. LYONS
SCALE AS NOTED	CADD DATE 09-28-94
PART	

CITY OF TRAVERSE CITY, MICHIGAN
RAW WATER INTAKE SYSTEM IMPROVEMENTS
ZEBRA MUSSEL CONTROL SYSTEM

LOCATION PLAN

DIVISION	CONTRACT	SHEET
	225.14-W-1	1 OF 3