

NOTE:  
STATIONING OF THE FORCE MAIN AND SANITARY SEWER IS MEASURED ALONG THE SEWER AND FORCE MAIN CENTERLINE. ELEVATIONS OF THE FORCE MAIN ARE SHOWN IN THE PROFILE AT SPECIFIC STATIONS. MAINTAIN A CONSTANT GRADE BETWEEN THE NOTED STATION ELEVATION POINTS AS SHOWN.

MATCH LINE - SEE SHEET 13

CONSTRUCT 2" FORCE MAIN. DEFLECT FORCE MAIN AS REQUIRED TO MAINTAIN 10' FROM PAVEMENT.

EXACT DEPTH AND LOCATION OF EXISTING WATER MAIN IS NOT KNOWN. CONTRACTOR SHALL LOCATE AND EXPOSE EXISTING WATER MAIN PRIOR TO CONSTRUCTION. PROVIDE 18" CLEARANCE BETWEEN WATER MAIN AND SANITARY SEWER. IF A CONFLICT EXISTS BETWEEN EXISTING WATER MAIN AND NEW SANITARY SEWER, NOTIFY PROJECT MANAGER.

ABANDON EXISTING SEPTIC TANK. BREAK IN TANK CEILING AND BACKFILL WITH GRANULAR MATERIAL PRIOR TO ABANDONMENT, EXISTING SEPTIC TANK SHALL BE PUMPED EMPTY.

LOCATE THE EXISTING SANITARY SEWER LINES FROM THE PARK OFFICE ON THE EAST SIDE. CONNECT TO SANITARY MANHOLE NO. 2 WITH 6" SDR-35 PVC SANITARY SEWER. CONNECT TO EXISTING SEWER WITH FLEXIBLE ADAPTOR AND BENDS AS REQUIRED.

REMOVE EXISTING CONCRETE SIDEWALK. CONSTRUCT 5' WIDE CONCRETE SIDEWALK FROM PARK OFFICE TO BITUMINOUS DRIVE. CONSTRUCT RAMP AT PARK OFFICE TO EXISTING OFFICE FINISHED FLOOR. SIDEWALK TRANSVERSE SLOPE SHALL NOT EXCEED 2.00%. SIDEWALK LONGITUDINAL SLOPE SHALL NOT EXCEED 5.00%.

REMOVE AND REPLACE EXISTING BITUMINOUS PAVEMENT. MINIMUM REMOVAL WIDTH SHALL BE 10'. PAVEMENT TO BE SAWCUT.

EXACT DEPTH AND LOCATION OF EXISTING WATER MAIN IS NOT KNOWN. CONTRACTOR SHALL LOCATE AND EXPOSE EXISTING WATER MAIN PRIOR TO CONSTRUCTION. PROVIDE 18" CLEARANCE BETWEEN WATER MAIN AND SANITARY SEWER. IF A CONFLICT EXISTS BETWEEN EXISTING WATER MAIN AND NEW SANITARY SEWER, NOTIFY PROJECT MANAGER.

CONSTRUCT 4" PRECAST CONCRETE SANITARY MANHOLE NO. 1. COORDINATES N 1280.30, E 1958.36.

CONSTRUCT 4" PRECAST CONCRETE SANITARY MANHOLE NO. 2. COORDINATES N 1037.84, E 1926.21.

PRIOR TO CONSTRUCTION, LOCATE AND EXPOSE EXISTING FORCE MAIN AND VERIFY ELEVATION. IF A CONFLICT EXISTS BETWEEN EXISTING FORCE MAIN AND NEW FORCE MAIN, NOTIFY PROJECT MANAGER.

EXISTING PUMP STATION TO BE DEMOLISHED. SEE SHEET 12 FOR DETAILS.

BORE AND JACK 65 LF 14" STEEL CASING PIPE. SEE SHEET 4 FOR DETAIL.

ABANDON EXISTING SEPTIC TANK. BREAK IN CEILING AND BACKFILL WITH GRANULAR MATERIAL PRIOR TO ABANDONMENT, EXISTING SEPTIC TANK SHALL BE PUMPED EMPTY.

CONNECT EXISTING SERVICE TO NEW 6" SANITARY SEWER. CONSTRUCT CLEANOUT.

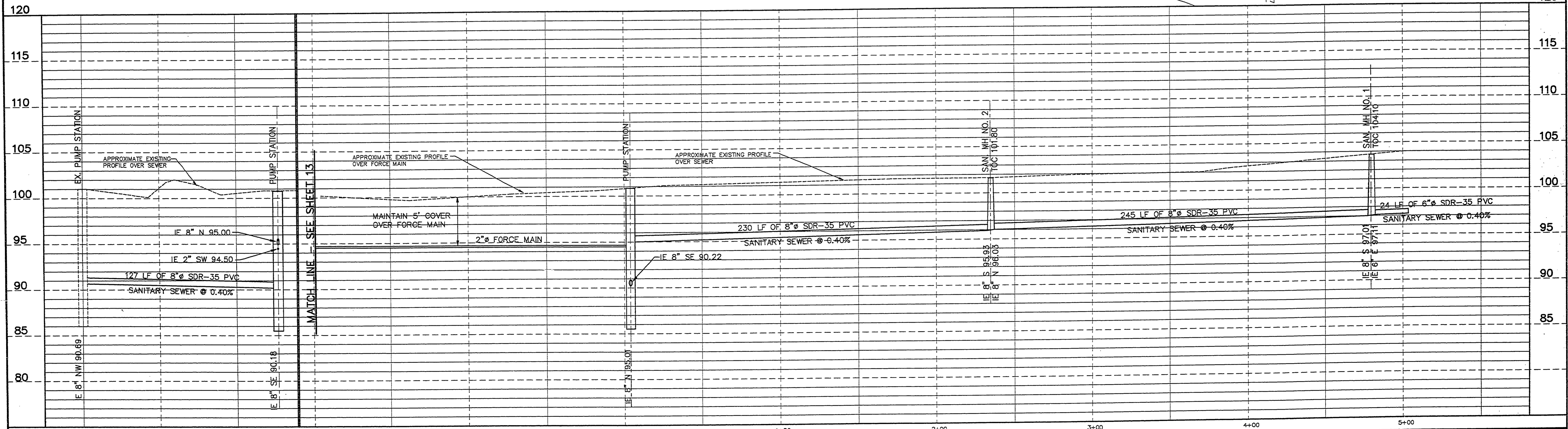
NOTE:  
CONTRACTOR SHALL LOCATE AND VERIFY EXISTING SEWER ELEVATIONS PRIOR TO CONSTRUCTION OF FORCE MAIN, PUMP STATION AND SANITARY SEWERS. IF ELEVATIONS ARE OTHER THAN SHOWN ON PLANS, NOTIFY PROJECT MANAGER IMMEDIATELY.

WITNESSES TO R.P.  
R.P. 1 (CAPPED IRON)  
S.E. COR. CONC. FOUNDATION, WEST, 124.42',  
N.E. COR. CONC. FOUNDATION, N45°W, 109.38'  
60d NAIL IN JT. OF CURB, N45°E, 47.37'  
60d NAIL IN JT. OF CURB, S30°E, 56.56'  
R.P. 2 (CAPPED IRON)  
NAIL E. SIDE 14" MAPLE, S40°W, 27.86  
NAIL S. SIDE 14" PINE, N55°E, 55.98'  
NAIL S. SIDE 18" PINE, EAST, 51.99'  
BENCH MARK  
BM 1  
60d NAIL N.W. SIDE 18" PINE  
ELEVATION 101.19

TREE LEGEND  
B = BIRCH  
BE = BEECH  
C = CEDAR  
DT = DEAD TREE  
M = MAPLE  
O = OAK  
P = PINE  
STP = STUMP  
T = TREE

SYMBOL LEGEND  
TREE  
WOODS

R.P. #	NORTH	EAST	ELEV.	DESC.
1	1000.00	2000.00	101.30	IRON
2	728.60	1900.49	102.11	IRON
7	1107.39	1441.66	108.56	IRON



FILE NO.: 1159ENST  
PLOT DATE: 9-21-94  
UPDATED BY: LJS

DRN BY:	IDENTIFICATION NO.	ISSUED FOR:	DATE
LJS	PROJECT - MUSKEGON	PRELIMINARY	7-21-94
GJF	STATE ACCOUNT	CONSTRUCTION	9-23-94
GDA	607-75-2450-400	FINAL RECORD	

**CAPITAL CONSULTANTS**  
ENGINEERS

STATE OF MICHIGAN  
DEPARTMENT OF MANAGEMENT AND BUDGET  
**Office of Facilities**

QUALITY OF LIFE RECREATION BOND  
MICHIGAN DEPARTMENT OF NATURAL RESOURCES  
PARKS DIVISION - STATE ACCT. NO. 607-75-2450-400

MUSKEGON STATE PARK  
SNUG HARBOR WASTEWATER SYSTEM  
FORCE MAIN PLAN AND PROFILE

SCALE: HORIZ. 1"=30'  
VERT. 1"=5'  
PROJ. NO.: 91159  
SHEET 13 OF 21

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