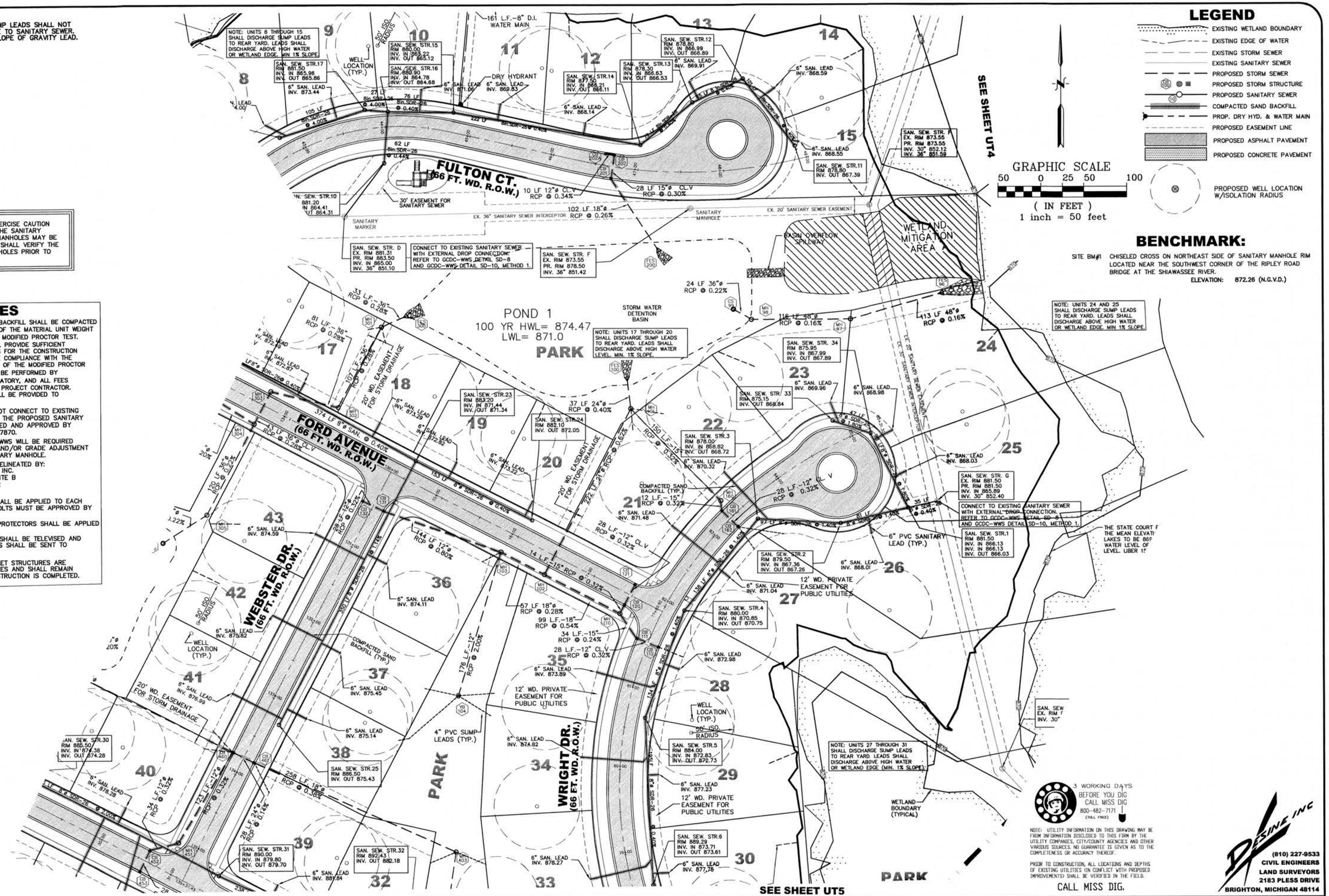
NOTE: SUMP LEADS SHALL NOT DISCHARGE TO SANITARY SEWER. 1% MIN. SLOPE OF GRAVITY LEAD.

NOTE:
CONTRACTOR SHALL EXERCISE CAUTION WHEN EXCAVATING IN THE SANITARY EASEMENT. EXISTING MANHOLES MAY BE BURIED. CONTRACTOR SHALL VERIFY THE LOCATION OF THE MANHOLES PRIOR TO CONSTRUCTION.

NOTES

1. ALL COMPACTED SAND BACKFILL SHALL BE COMPACTED TO A MINIMUM OF 95% OF THE MATERIAL UNIT WEIGHT AS DETERMINED BY THE MODIFIED PROCTOR TEST. THE CONTRACTOR SHALL PROVIDE SUFFICIENT SOIL COMPACTION TESTS FOR THE CONSTRUCTION ENGINEER TO DETERMINE COMPLIANCE WITH THE REQUIRED DENSITY (95% OF THE MODIFIED PROCTOR DENSITY). TESTS SHALL BE PERFORMED BY AN INDEPENDENT LABORATORY, AND ALL FEES SHALL BE PAID BY THE PROJECT CONTRACTOR. ALL TEST RESULTS SHALL BE PROVIDED TO GCDC-WWS.
2. CONTRACTOR SHALL NOT CONNECT TO EXISTING SANITARY SEWER UNTIL THE PROPOSED SANITARY SEWER SYSTEM IS TESTED AND APPROVED BY GCDC-WWS (810) 732-7870.
3. A PERMIT FROM GCDC-WWS WILL BE REQUIRED FOR THE RELOCATION AND/OR GRADE ADJUSTMENT OF ANY EXISTING SANITARY MANHOLE.
4. WETLAND BOUNDARY DELINEATED BY:
   VOICE ENVIRONMENTAL INC.
   116 WATER STREET SUITE B
   BOYNE CITY, MI. 49712
   (231) 582-3498
5. ONE LOCKING BOLT SHALL BE APPLIED TO EACH MANHOLE LID. THE BOLTS MUST BE APPROVED BY THE TOWNSHIP.
6. STORMWATER INFLOW PROTECTORS SHALL BE APPLIED TO EACH MANHOLE.
7. ALL SANITARY SEWER SHALL BE TELEVISED AND VIDEOTAPED. REPORTS SHALL BE SENT TO GCDC-WWS.
8. DETENTION POND OUTLET STRUCTURES ARE PERMANENT STRUCTURES AND SHALL REMAIN IN PLACE AFTER CONSTRUCTION IS COMPLETED.



BENCHMARK:

SITE BM#1 CHISELED CROSS ON NORTHEAST SIDE OF SANITARY MANHOLE RIM LOCATED NEAR THE SOUTHWEST CORNER OF THE RIPLEY ROAD BRIDGE AT THE SHIAWASSEE RIVER.
ELEVATION: 872.26 (N.G.V.D.)

3 WORKING DAYS BEFORE YOU DIG CALL MISS DIG 800-482-7171 (TOLL FREE)

NOTE: UTILITY INFORMATION ON THIS DRAWING MAY BE FROM INFORMATION DISCLOSED TO THIS FIRM BY THE UTILITY COMPANIES, CITY/COUNTY AGENCIES AND OTHER VARIOUS SOURCES. NO GUARANTEE IS GIVEN AS TO THE COMPLETENESS OR ACCURACY THEREOF.

PRIOR TO CONSTRUCTION, ALL LOCATIONS AND DEPTHS OF EXISTING UTILITIES (IN CONFLICT WITH PROPOSED IMPROVEMENTS) SHALL BE VERIFIED IN THE FIELD.

CALL MISS DIG.

DESINE INC
(810) 227-9533
CIVIL ENGINEERS
LAND SURVEYORS
2183 PLESS DRIVE
BRIGHTON, MICHIGAN 48114

DESIGN: WMP
DRAFT: L.F.
CHECK: WMP

DATE	REVISION-DESCRIPTION	DATE	REVISION-DESCRIPTION
9-28-05	REV. PER GCDC-WWS AND TWP REVIEW COMMENTS		
10-27-05	REV. PER GCDC-WWS AND TWP REVIEW COMMENTS		
11-10-05	REV. STORM SEWER 131-103 AND 202-200		

LIBERTY SHORES

UTILITY PLAN

CLIENT:
OCTOBER CAPITAL GROUP L.L.C.
6525 WILLOW RD.
W. BLOOMFIELD, MI. 48324
(248) 895-8361

SCALE: 1"=50'
PROJECT No.: 40430
DWG NAME: UTIL-PLANS
PRINT: NOV 10 2005

UT4