

# GENERAL NOTES

LAKE COUNTY  
LAK-283-0.000



12  
121

PLAN NO.

ITEM 604 - MANHOLE RECONSTRUCTED TO GRADE,  
AS PER PLAN (SANITARY) 4\_\_EA.

ITEM 604 - MANHOLE RECONSTRUCTED TO GRADE,  
AS PER PLAN (WATER) 4\_\_EA.

## ITEM 604 - MANHOLE REPLACEMENT

ALL EXISTING STRUCTURES TO REMAIN HAVE BEEN FIELD CHECKED TO DETERMINE THAT THE STRUCTURES ARE ADEQUATE TO REMAIN IN USE. HOWEVER, EXISTING STRUCTURES MAY PROVE TO BE UNSUITABLE, AS DETERMINED BY THE ENGINEER, DURING CONSTRUCTION OF THIS PROJECT. TO PROVIDE FOR THIS CONTINGENCY, AN ESTIMATED QUANTITY OF THE FOLLOWING HAVE BEEN INCLUDED IN THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER.

ITEM 604 - MANHOLE NO. 3 (STORM) \_2\_\_EACH

## ITEM SPECIAL - MISCELLANEOUS METAL

ALL EXISTING STRUCTURES TO BE ADJUSTED TO GRADE HAVE BEEN FIELD CHECKED TO DETERMINE THAT THE EXISTING CASTINGS ARE SUITABLE FOR SALVAGE AND REUSE. HOWEVER, EXISTING CASTINGS MAY PROVE TO BE UNSUITABLE, AS DETERMINED BY THE ENGINEER, DURING THE CONSTRUCTION OF THIS PROJECT. TO PROVIDE FOR THIS CONTINGENCY, AN ESTIMATED QUANTITY OF MISCELLANEOUS METAL HAS BEEN INCLUDED IN THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE CASTINGS OF THE REQUIRED TYPE, SIZE AND STRENGTH FOR THE PARTICULAR STRUCTURES IN QUESTION. EXISTING CATCH BASIN COVERS WHICH ARE NOT BICYCLE SAFE MUST BE REPLACED WITH BICYCLE SAFE COVERS. THE ESTIMATED QUANTITY INCLUDES REPLACEMENT FOR BICYCLE SAFE GRATES. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR THIS WORK.

ITEM SPECIAL - MISCELLANEOUS METAL 3240 KILOGRAMS

THE CONTRACTOR IS CAUTIONED TO USE EXTREME CARE IN THE REMOVAL, STORAGE AND REPLACEMENT OF ALL EXISTING CASTINGS. ANY CASTINGS DAMAGED BY THE NEGLIGENCE OF THE CONTRACTOR, AS DETERMINED BY THE ENGINEER, SHALL BE REPLACED WITH THE PROPER NEW CASTING BY THE CONTRACTOR, AT NO EXPENSE TO THE STATE. THE CONTRACTOR SHALL NOT ORDER ANY CASTINGS UNTIL DIRECTED BY THE ENGINEER AND IN THE EVENT NO REPLACEMENT CASTINGS ARE REQUIRED, THE ITEM SHALL BE NON-PREFORMED.

## ITEM 638 - FIRE HYDRANT EXTENDED AND ADJUSTED TO GRADE

### WORK INCLUDED

THE WORK INCLUDED UNDER THIS ITEM SHALL CONSIST OF EXTENDING AND ADJUSTING EXISTING HYDRANTS TO GRADE AS DETAILED ON SHEET NO. 80 AND AT THE LOCATIONS NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER, INCLUDING EXCAVATION, REMOVING AND RESETTING OF EXISTING HYDRANTS AND APPURTENANCES, SHEETING AND BRACING, BACKFILL, LABOR, MATERIALS, EQUIPMENT, TOOLS AND INCIDENTALS NECESSARY TO MAKE THIS A COMPLETE ITEM OF WORK. ALL WORK FOR THIS ITEM SHALL BE IN ACCORDANCE WITH LAKE COUNTY UTILITIES DEPARTMENT SPECIFICATIONS. VALVE BOX ADJUSTMENT SHALL BE PAID FOR SEPERATELY UNDER ITEM 638, VALVE BOX ADJUSTED TO GRADE.

## SETTING

### A. GENERAL LOCATION:

THE HYDRANT SHALL BE LOCATED IN A MANNER TO PROVIDE COMPLETE ACCESSIBILITY, AND IN SUCH A MANNER THAT THE POSSIBILITY OF DAMAGE FROM VEHICLES OR INJURY TO PEDESTRIANS WILL BE MINIMIZED.

### B. LOCATION REGRADING CURB LINES:

WHEN PLACED BEHIND CURB, THE HYDRANT SHALL BE SET SO THAT THERE IS A MINIMUM OF 0.61 METERS OF CLEARANCE FROM THE FACE OF CURB TO THE CLOSEST PORTION OF THE HYDRANT.

### C. LOCATION REGARDING SIDEWALK:

WHEN SET IN THE LAWN SPACE BETWEEN THE CURB AND THE SIDEWALK OR BETWEEN THE SIDEWALK AND THE PROPERTY LINE, NO PORTION OF THE HYDRANT OR NOZZLE CAP SHALL BE WITHIN 150 MM OF THE SIDEWALK.

### D. POSITION OF NOZZLE:

THE HYDRANT SHALL STAND PLUMB WITH THE PUMPER NOZZLE POINTED TOWARD THE ROAD AT AN ANGLE OF 90°. THE ELEVATION SHALL CONFORM TO THE ESTABLISHED GRADE WITH TOPS OF FROST CASING AT LEAST 100 MM ABOVE GRADE.

### E. DRAINAGE AT HYDRANT

DRAINAGE SHALL BE PROVIDED AT THE BASE OF THE HYDRANT BY FILLING AROUND THE ELBOW WITH COARSE GRAVEL OR CRUSHED STONE TO AT LEAST 0.60 METERS ABOVE AND 0.30 METERS BELOW THE HYDRANT INLET PIPE. WHEREVER A HYDRANT IS SET IN ROCK, CLAY OR OTHER IMPERVIOUS SOIL, THE TRENCH SHALL BE WIDENED AND DEEPENED ON EACH SIDE OF THE HYDRANT BASE AND SPACE SHALL BE FILLED COMPACTLY WITH COARSE GRAVEL OR BROKEN STONE MIXED WITH COARSE SAND OF SUFFICIENT QUANTITY TO ABSORB ALL WATER TO BE DRAINED FROM THE HYDRANT WHEN THE VALVE IS CLOSED.

### F. ANCHORAGE FOR HYDRANT:

THE HYDRANT SHALL BE SET ON SOLID CONCRETE BLOCKING OR SIMILAR FOUNDATION AND THE BASE OF THE HYDRANT AND THE HYDRANT TEE SHALL BE WELL BRACED AGAINST UNEXCAVATED EARTH AT THE END OF THE TRENCH WITH SOLID CONCRETE BACKING AND OAK WEDGES, OR IT SHALL BE TIED TO THE PIPE WITH SUITABLE RODS OR CLAMPS AS DIRECTED BY THE ENGINEER.

### G. CLEANING:

THE HYDRANT SHALL BE THOROUGHLY CLEANED OF DIRT AND FOREIGN MATTER BEFORE SETTING.

93300 FRI 08/08/97 11:34 AM MATT FILES: GN4.PLT

GENNOTES - LAYER 4