





## GENERAL SUMMARY

### NOTES: ---

1. 30' OF REINFORCED CONC. PIPE TO BE PLACED UNDER EACH EXISTING ROADWAY CROSSOVER AS DIRECTED BY ENGINEER
2. UNSTABLE MATERIALS TO BE REMOVED FROM UNDER PIPE LOCATION & MAY BE USED AS FILL.
3. PIPE TO BE PLACED ON SCREENINGS OR OTHER SUITABLE GRANULAR MATERIAL.
4. BACKFILL OVER PIPE IN ROADWAYS TO BE COMPACTED SUITABLE GRANULAR MATERIAL. (I-107 Class 1)
5. PIPE TO BE PLACED 10' NORTH OF HUB LINE FROM STA 0+00 TO STA 17+00. FROM STA 17+00 TO PUMP HOUSE PIPE TO BE PLACED AT DIRECTION OF ENGINEER.
6. ALL EXISTING DRAIN LINES ON BOTH SIDES OF LAGOON TO BE CONNECTED TO CONC. PIPE.
7. EXISTING PIPE IN ROADWAYS TO BE REMOVED & TRENCH BACKFILLED WITH STATE SPEC. B-II OR EQUAL.
8. CATCH BASINS - STATE STD. I-8 #7 TO BE PLACED AT DIRECTION OF ENGINEER.
9. ALL UNSUITABLE MATERIALS SUCH AS BRUSH, LOGS, TRASH & OTHER DEBRIS TO BE REMOVED PREVIOUS TO BACKFILLING AND DISPOSED OF.
10. ALL BACKFILL MATERIALS TO BE ACCEPTABLE BY ENGINEER.
11. ALL SALVAGED MATERIALS SHALL BECOME THE PROPERTY OF OTTAWA COUNTY AND BE PILED NEATLY ON THE SIDE FOR PICKUP BY COUNTY FORCES.

### SUMMARY OF REQUIRED MATERIALS ---

1. 6" PLAIN CONC. PIPE - BELL & SPIGOT	500 LIN. FT.
2. 12" PLAIN CONC. PIPE - BELL & SPIGOT	1020 LIN. FT.
3. 12" REINFORCED CONC. PIPE - BELL & SPIGOT	90 LIN. FT.
4. CATCH BASINS - STATE STD. I-8 #7 - 3 REQUIRED	3 EACH
5. BACKFILL - EARTH - STATE SPEC. # E-1 OR EQUAL	11,438 YDS.
6. BACKFILL - STONE - STATE SPEC. # I-107(B) OR EQUAL	327 YDS.