

# GENERAL NOTES

## DRAINAGE CONT.

### ITEM 604 - MANHOLE, NO. 3

THE FOLLOWING LOCATIONS OF ITEM 604 MANHOLE NO. 3 SHALL USE A BASE WITH THE INNER DIAMETER AS LISTED BELOW IN ORDER TO ACCOMODATE CONDUITS CONNECTING AT ANGLES.

STA. 89+90.00 33.00' RT - 84" INNER DIAMETER BASE

STA. 117+00.00 33.00' RT - 96" INNER DIAMETER BASE

STA. 144+62.00 34.00' RT - 84" INNER DIAMETER BASE

STA. 142+94.00 34.00' RT - 84" INNER DIAMETER BASE

ALL OTHER DETAILS SHALL BE AS PER STANDARD CONSTRUCTION DRAWING MH-3.

### ITEM 604 - MANHOLE NO. 5 AS PER PLAN

THE FOLOWING LOCATION OF ITEM 604 MANHOLE NO. 5 AS PER PLAN SHALL ALLOW FOR A REPLACEMENT LENGTH OF 10" CONDUIT TYPE B, DUCTILE IRON PIPE ANSI CLASS 52 WITH PUSH ON JOINTS AND FITTINGS TO ALLOW FOR THE THROUGH PASSAGE OF THE EXISTING 10" SANITARY SEWER:

STA. 136+42.00 15.00' RT

THE 10" D.I.P. CONDUIT SHALL BE ATTACHED TO THE EXISTING 10" CONDUIT USING 10" V.C.P./D.I.P. ADAPTORS OF MISSION, FERNCO OR APPROVED EQUAL. THE 10" DUCTILE IRON PIPE SHALL EXTEND A MINIMUM OF THREE FEET FROM THE OUTSIDE WALL OF THE MANHOLE.

ALL OTHER DETAILS SHALL BE AS PER STANDARD DRAWING MH-5.

THE DUCTILE ITON PIPE AND COUPLINGS SHALL BE INCLUDED IN THE UNIT PRICE FOR ITEM 604 MANHOLE NO. 5 AS PER PLAN.

### BULKHEADS AND PLUGS AT DEAD ENDS OF PROPOSED CONDUIT

BULKHEADS FOR THE DEAD ENDS OF THE VARIOUS SIZES AND TYPES OF PROPOSED CONDUITS AT LOCATIONS SHOWN ON THE PLAN SHALL BE PRE-CAST VITRIFIED OR CONCRETE STOPPERS OR CONSTRUCTED WITH MASONRY UNITS AS PER ITEM 602 MASONRY AND SHALL BE OF A THICKNESS ACCEPTABLE TO THE ENGINEER. BULKHEADS AND PLUGS HAVE BEEN ITEMIZED IN THE QUANTITY CALCULATIONS. THE COST OF SUCH BULKHEADS AND PLUGS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE PERTINENT ITEM 603 CONDUITS.

### ITEM 202 - PIPE REMOVED FOR STORAGE, AS PER PLAN

ITEM 202 - PIPE REMOVED FOR STORAGE SHALL BE TRANSPORTED TO THE CITY OF MENTOR MAINTENANCE YARD AT THE SW CORNER OF SR 615 AND CARPENTER RD.

## SANITARY SEWER

### SANITARY FLOW INTO HIGHWAY DRAINAGE SYSTEMS

PLAN MAKES NO PROVISION FOR CONNECTING, NOR SHALL THE ENGINEER OR CONTRACTOR CONNECT, ANY EXISTING OR NEW DRAINAGE INTO THE HIGHWAY DRAINAGE SYSTEM, WHEN SUCH DRAINS CARRY FLOW FROM ANY PLUMBING FIXTURES, INCLUDING FLOOR DRAINS AND SINK DRAINS, OR DRAINS FROM LIVESTOCK LOTS OR BARN.

## UNRECORDED SANITARY CONNECTIONS

ANY UNRECORDED ACTIVE CONNECTION TO A SANITARY SEWER ENCOUNTERED DURING CONSTRUCTION SHALL BE RECONNECTED TO THE EXISTING SEWER, AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

ITEM 603 - 6" CONDUIT, TYPE B, AS PER PLAN, 706.08 W/JOINTS AS PER 706.12 200 LIN. FT.

ITEM 603 - 8" CONDUIT, TYPE B, AS PER PLAN, 706.08 W/JOINTS AS PER 706.12 200 LIN. FT.

NONE OF THE ABOVE MATERIAL SHALL BE ORDERED BY THE CONTRACTOR UNTIL AUTHORIZED BY THE ENGINEER.

## SANITARY SEWERAGE

ALL WORK INVOLVING SANITARY SEWERS AND/OR MANHOLES SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE LAKE COUNTY SANITARY ENGINEER'S OFFICE. THE CONTRACTOR SHALL ARRANGE FOR THE PAYMENT OF ANY AND ALL INSPECTION FEES ASSOCIATED WITH THE WORK TO BE PERFORMED UNDER THIS CONTRACT PRIOR TO INITIATING ANY WORK IN THE FIELD AND SHALL CONTACT THE OFFICE OF THE LAKE COUNTY SANITARY ENGINEER NOT LESS THAN 48 HOURS PRIOR TO STARTING CONSTRUCTION TO ARRANGE FOR INSPECTION.

### SANITARY SEWERAGE NOTES

THE CONTRACTORS' ATTENTION IS CALLED TO 107.02 OF THE ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS AND SHALL CONTACT MR. ALBERT SAARI, P.E., LAKE COUNTY SANITARY ENGINEER, FOR SPECIFIC CHARGES AND REQUIREMENTS FOR THIS PROJECT. SANITARY SEWER CONSTRUCTION SHALL ONLY BE PERFORMED BY A CONTRACTOR LICENSED BY THE LAKE COUNTY UTILITIES DEPARTMENT TO CONSTRUCT SANITARY SEWERS AND APPURTENANCES.

ALL SANITARY SEWER CONSTRUCTION SHALL BE GOVERNED BY THE RULES, REGULATIONS AND SPECIFICATIONS OF THE LAKE COUNTY SANITARY ENGINEER AND AT ALL TIMES BE SUBJECT TO HIS DIRECT SUPERVISION AND INSPECTION.

THE CONTRACTOR SHALL PROVIDE THE LAKE COUNTY SANITARY ENGINEER A MINIMUM OF 48 HOURS NOTICE PRIOR TO BEGINNING SANITARY SEWER WORK TO ARRANGE FOR INSPECTION. THE CONTRACTOR SHALL BE RESPONSIBLE TO PAY ALL INSPECTION FEES REQUIRED BY THE LAKE COUNTY SANITARY ENGINEER.

ALL SANITARY SEWERS MUST HAVE PREMIUM JOINTS AND THE ENTIRE NEW SYSTEM(S) MUST PASS EITHER AND EXFILTRATION OR AN INFILTRATION TEST AFTER CONSTRUCTION HAS BEEN COMPLETED. THE MAXIMUM ALLOWABLE RATE OF INFILTRATION SHALL BE 200 GALLONS PER INCH DIAMETER OF SEWER PER MILE PER DAY.

ALL SANITARY SEWER CONNECTIONS SHALL BE 6" DIAMETER AND SHALL HAVE PREMIUM JOINTS. ROOF DRAINS, FOUNDATION DRAINS AND OTHER CLEAN WATER CONECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.

SANITARY SEWERS AND SANITARY SEWER CONNECTIONS SHALL BE CONSTRUCTED OF VITRIFIED CLAY PIPE (VCP), C-700 E.S. WITH PREMIUM JOINTS OR DUCTILE IRON PIPE (DIP), CLASS 52 WITH PREMIUM JOINTS.

NO SANITARY SEWER SERVICE CONNECTIONS TO ANY BUILDING SHALL BE PERMITTED PRIOR TO APPROVAL OF THE NEW SANITARY SEWER FACILITIES BY THE LAKE COUNTY SANITARY ENGINEER.

SANITARY SEWER FLOWS SHALL BE MAINTAINED AT ALL TIMES BY PUMPING SEWAGE TO THE NEXT AVAILABLE DOWNSTREAM SANITARY MANHOLE.

## GENERAL NOTES CONT. FROM SHT. 14 .

### STORAGE OF MATERIALS

CONTRACTOR MAY ONLY STORE MATERIALS WHICH WILL BE INCORPORATED IN THE WORK WITHIN FIVE (5) WORKING DAYS OF DELIVERY IN APPROVED PORTIONS OF THE RIGHT-OF-WAY. ALL MATERIALS RECEIVED BY THE CONTRACTOR AT THE SITE WHICH WILL NOT BE INCORPORATED IN THE WORK WITHIN FIVE (5) WORKING DAYS OF DELIVERY SHALL BE STORED AT A STORAGE SITE PROVIDED BY THE CONTRACTOR AT HIS EXPENSE IN ACCORDANCE WITH ITEM 106.06.

### MAINTENANCE OF SURFACE DRAINAGE

DURING THE PROCESS OF ALL OPERATIONS, CONTRACTOR SHALL MAINTAIN ALL ROADWAY AREAS, IN A SMOOTH CONDITION, TO PREVENT PONDING OF WATER AND WILL BE WELL DRAINED AT ALL TIMESTO PROTECT THE PROPOSED PAVEMENT SUBGRADE AREA FROM BECOMING SATURATED AND/OR UNSTABLE.

### ALLOWABLE AMOUNT OF DISTURBED WORK AREA

THE CONTRACTOR SHALL COMPLETE FINISH GRADING AND INCORPORATE ALL TEMPORARY AND/OR PERMANENT EROSION CONTROL MEASURES INTO THE PROJECT AT THE EARLIEST PRACTICABLE TIME. THE AMOUNT OF SURFACE AREA WITHIN THE PROJECT LIMITS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL NOT EXCEED 500,000 SQUARE FEET AT ANY TIME.