

E:\ACAD\STANDARDS_&_SPECIFICATIONS\SPECIFICATIONS\DWGS\GENNOT1.dwg 11-Mar-19 1:57 PM

1. REGULATIONS
ALL WORK MUST COMPLY WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS IN ALL RESPECTS, INCLUDING COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT.

ALL MATERIAL AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF BOWLING GREEN, AND THE LATEST REVISION OF THE OHIO DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS.

THE CONTRACTOR SHALL BE REQUIRED TO OBTAIN ALL CITY OF BOWLING GREEN LICENSES AND PERMITS APPLICABLE TO HIS WORK. CONTACT THE DEPARTMENT OF PUBLIC WORKS AT 419-354-6227 FOR LICENSE AND PERMIT REQUIREMENTS.

2. ENGINEER
ALL REFERENCES TO THE STATE, THE DIRECTOR, THE ENGINEER OR THE INSPECTOR IN THE "STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, CONSTRUCTION AND MATERIAL SPECIFICATIONS" (ODOT-CMS) MANUAL SHALL BE CONSIDERED REFERENCES TO THE ENGINEER OR HIS DULY AUTHORIZED REPRESENTATIVE.

3. PRECONSTRUCTION MEETING
BEFORE ANY CONSTRUCTION MAY BEGIN, THE CONTRACTOR IS REQUIRED TO SCHEDULE AND ATTEND A PRECONSTRUCTION MEETING WITH THE CITY OF BOWLING GREEN-DIVISION OF ENGINEERING. REPRESENTATIVES OF THE CONTRACTOR MUST INCLUDE THE PROJECT SUPERINTENDENT AND THE PROJECT FOREMAN. THE MEETING CAN BE ARRANGED BY CALLING (419) 354-6227.

4. ESTIMATED QUANTITIES
THE ESTIMATED PLAN QUANTITIES ARE FOR THE PURPOSE OF COMPETITIVE BIDDING AND ARE NOT NECESSARILY THE FINAL PAY QUANTITIES. FINAL FIELD MEASUREMENTS AND CALCULATIONS WILL DETERMINE THE FINAL QUANTITY TO BE PAID, UNLESS OTHERWISE SPECIFIED IN THESE GENERAL NOTES.

5. CONSTRUCTION LIMITS
THE CONTRACTOR MUST AT ALL TIMES CONDUCT HIS OPERATIONS WITHIN THE PUBLIC RIGHT-OF-WAY, EASEMENTS, OR WORK AGREEMENT AS SHOWN ON THE PLANS.

6. SHOP DRAWINGS
THE CONTRACTOR SHALL, AT A MINIMUM OF 10 DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, SUBMIT 5 COPIES TO THE ENGINEER OF ALL SHOP DRAWINGS AND SUBMITTALS SHOWING ALL MATERIAL AND EQUIPMENT THAT IS PROPOSED TO BE PROVIDED.

THE SUBMITTED SHOP DRAWINGS SHALL BE DRAWN TO SCALE AND INCLUDE ALL FIELD MEASURES, MATERIAL AND EQUIPMENT SPECIFICATIONS AS WELL AS ANY OTHER INFORMATION NECESSARY FOR THE ENGINEER'S REVIEW. AN APPROVED SHOP DRAWING DOES NOT RELIEVE THE CONTRACTOR FROM PROVIDING A COMPLETE WORKING SYSTEM AS DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE PERMITTED TO INSTALL ANY MATERIAL OR EQUIPMENT WITHOUT AN APPROVED SHOP DRAWING FOR THAT PARTICULAR MATERIAL OR EQUIPMENT. MATERIAL OR EQUIPMENT INSTALLED WITHOUT AN APPROVED SHOP DRAWING IS DONE SO AT THE CONTRACTOR'S SOLE RISK AND BE SUBJECT TO REMOVAL AT NO ADDITIONAL COST TO THE OWNER, IF THE ENGINEER DETERMINES THE MATERIAL OR EQUIPMENT IS UNACCEPTABLE OR IMPROPERLY INSTALLED.

7. VIDEO RECORD OF EXISTING CONDITIONS
PRIOR TO THE COMMENCEMENT OF CONSTRUCTION THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A DIGITALLY RECORDED RECORD OF THE SITE CONDITIONS OF THE CONSTRUCTION AREA. THE PRECONSTRUCTION VIDEO RECORD SHALL BE OF SUFFICIENT DETAIL TO DESCRIBE ALL EXISTING SITE FEATURES AND CONDITIONS INCLUDING, BUT NOT LIMITED TO; ROADWAY, SIDEWALK AND DRIVEWAY PAVEMENT, CURBS, GUTTERS, DITCHES, BRIDGES, CULVERTS, HEADWALLS, LANDSCAPING, TREES, SIGNS, UTILITY POLES, MAILBOXES, STREET LIGHTS, CATCH BASINS, MANHOLES, VALVE BOXES, FIRE HYDRANTS, FENCES, AND ANY OTHER FEATURE THAT MAY BE AFFECTED BY THE WORK. BUILDINGS SHALL BE LOCATED BY STREET ADDRESS. THE CONTRACTOR SHALL PROVIDE TWO (2) COPIES OF THE VIDEO RECORD IN DVD FORMAT TO THE OWNER A MINIMUM OF FIVE (5) DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THE DVD COPIES SHALL BE PROVIDED IN A NON-PROPRIETARY FORMAT THAT CAN BE READ BY CURRENT STANDARD DVD PLAYERS. ALL DISCS AND CASES PROVIDED TO THE OWNER SHALL BEAR THE FOLLOWING INFORMATION; NAME OF PROJECT, OWNER PROJECT NO (WL-XX), NAME OF CONTRACTOR, NAME OF VIDEO RECORDING SERVICE, DATE OF RECORDING.

A CONTINUOUSLY RUNNING TIME DIGITAL STAMP SHALL BE PROVIDED ON THE VIDEO RECORD TO PREVENT TAMPERING. THE DIGITAL STAMP SHALL INDICATE THE DATE, TIME (HH:MM:SS), DIRECTION OF TRAVEL AND STATIONING (xx+xx) OF THE RECORDING. THE DIGITAL STAMP SHALL BE RECORDED SIMULTANEOUSLY WITH THE VIDEO AND AUDIO TRACKS OF THE VIDEO RECORD. THE VIDEO RECORD SHALL CONSIST OF ONE (1) VIDEO TRACK AND TWO (2) AUDIO TRACKS. ONE AUDIO TRACK SHALL BE RECORDED BY THE CAMERA OPERATOR DESCRIBING THE FEATURES BEING RECORDED. THE OTHER AUDIO TRACK SHALL DESCRIBE FEATURES NOT READILY VISIBLE TO THE CAMERA OPERATOR SUCH AS THE RELATIVE ELEVATION OF OBJECTS BEING RECORDED.

THE CONTRACTOR SHALL UTILIZE A PROFESSIONAL RECORDING SERVICE SPECIALIZING IN THE PREPARATION OF MUNICIPAL PROJECT PRECONSTRUCTION VIDEO RECORDS. THE CONTRACTOR SHALL PROVIDE FIVE (5) REFERENCES OF THE RECORDING SERVICE INDICATING SATISFACTORY COMPLETION OF PRIOR PRECONSTRUCTION VIDEOS. WHEN FILMING FROM A WHEELED VEHICLE, THE DISTANCE FROM THE LENS TO THE SURFACE SHALL NOT BE LESS THAN 12 FEET TO INSURE ADEQUATE PERSPECTIVE.

ALL VIDEO RECORDS SHALL BE PERFORMED IN THE PRESENCE OF A REPRESENTATIVE OF THE OWNER UNLESS OTHERWISE DIRECTED IN WRITING BY THE OWNER.

8. HAUL ROADS
THE CONTRACTOR SHALL MAINTAIN HAUL ROADS IN A CONDITION ACCEPTABLE TO THE ENGINEER. THE MAINTENANCE SHALL INCLUDE, BUT IS NOT LIMITED TO, THE REMOVAL OF MUD, STONE, AND OTHER MATERIALS FROM PAVEMENT SURFACES. HAUL ROUTES SHALL BE APPROVED BY THE ENGINEER PRIOR TO THE START OF CONSTRUCTION FOR THIS PROJECT.

9. MAINTAINING TRAFFIC
MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITH ODOT ITEM 614 AND MEET WITH REQUIREMENTS OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. A MINIMUM OF ONE-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES. PAYMENT FOR MAINTENANCE OF TRAFFIC SHALL BE INCLUDED IN ODOT ITEM 614.

10. UNDERGROUND UTILITIES
THE LOCATIONS OF UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS OF THE UTILITY. NO GUARANTEE OF ACCURACY OF THESE UTILITIES IS MADE.

11. UTILITIES NOTIFICATION
AT LEAST THREE (3) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS THE CONTRACTOR SHALL NOTIFY THE ENGINEER, THE OHIO UTILITIES PROTECTION SERVICE (1-800-362-2764), AND THE OWNERS OF EACH UNDERGROUND UTILITY FACILITY SHOWN IN THE PLANS.

THE OWNER OF THE UNDERGROUND UTILITY FACILITY SHALL, WITHIN SEVENTY-TWO (72) HOURS, EXCLUDING SATURDAYS, SUNDAYS, AND LEGAL HOLIDAYS AFTER NOTICE IS RECEIVED, STAKE, MARK, OR OTHERWISE DESIGNATE THE LOCATION OF THE UNDERGROUND FACILITIES IN THE CONSTRUCTION AREA IN SUCH A MANNER AS TO INDICATE THEIR COURSE TOGETHER WITH THE APPROXIMATE DEPTH AT WHICH THEY WERE INSTALLED. THE MARKING OR LOCATING SHALL BE COORDINATED TO STAY APPROXIMATELY TWO (2) DAYS AHEAD OF THE PLANNED CONSTRUCTION.

12. PROTECTION OF EXISTING UTILITIES
ALL UTILITIES ENCOUNTERED SHALL BE PROPERLY SUPPORTED, SHORED OR OTHERWISE PROTECTED WHENEVER EXPOSED IN AN EXCAVATION AS APPROVED BY THE ENGINEER. SUCH SUPPORTS, SHORING OR OTHER MEASURES SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. THE ENGINEER RESERVES THE RIGHT TO REQUIRE SIGNED AND SEALED ENGINEERING DESIGN CALCULATIONS FOR THE SUPPORTS, SHORING OR OTHER MEASURES PROVIDED BY THE CONTRACTOR.

13. SITE RESTORATION
ALL AREAS SHALL BE RETURNED TO THE GRADE AND CONDITION EXISTING PRIOR TO THE COMMENCEMENT OF WORK WITHIN 30 DAYS OF DISTURBANCE OF THE AREA UNLESS APPROVED OTHERWISE BY THE OWNER. THIS INCLUDES PAVEMENT REPLACEMENT.

14. EXISTING STORM SEWERS
ALL EXISTING STORM SEWERS AND SUBSURFACE DRAINAGE OR FIELD TILE DAMAGED OR INTERFERED WITH DURING CONSTRUCTION SHALL BE REPLACED WITH NEW PIPE MATCHING THE EXISTING SEWER OR OF A MATERIAL APPROVED BY THE ENGINEER. REMOVED PIPE SHALL NOT BE REUSED UNLESS APPROVED BY THE ENGINEER. THE REPLACEMENT PIPE SHALL BE INSTALLED WITH PROPER BEDDING AND BACKFILL AND SHALL BE INSTALLED TO MATCH THE GRADE AND SIZE OF THE EXISTING SEWER. FERNCO ADAPTERS SHALL BE USED AT ALL JOINTS CONNECTING NEW SEWER PIPE TO THE EXISTING SEWER PIPE. THE CONTRACTOR IS CAUTIONED TO USE THE GREATEST CARE IN REPORTING TO THE ENGINEER ALL EXISTING SEWER LINES OF ANY TYPE WHICH ARE EXPOSED IN TRENCHING FOR THE NEW WATERLINE. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE APPROPRIATE ITEM THAT INTERFERES WITH THE STORM SEWER.

15. MAINTENANCE OF FLOW
WHERE EXISTING SEWERS ARE ENCOUNTERED AND ARE INTERFERED WITH, FLOW SHALL BE MAINTAINED. SEWAGE AND OTHER LIQUID MUST BE HANDLED BY THE CONTRACTOR EITHER INTO CONNECTIONS BY OTHER SEWERS (WITH THE APPROVAL OF THE OWNER) OR BY THE TEMPORARY PUMPING TO A SATISFACTORY OUTLET. SEWAGE OR OTHER LIQUID SHALL NOT BE PUMPED, BAILED, OR FLUMED OVER THE STREET OR ONTO ANY SURFACE.

16. TREES, BUSHES AND SHRUBS
TREES AND BUSHES WHICH ARE TOO NEAR THE CONSTRUCTION TO AVOID DESTRUCTION, DESPITE EXTREME CARE ON THE PART OF THE CONTRACTOR SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER. THE ENGINEER'S PERMISSION SHALL BE OBTAINED PRIOR TO THE REMOVAL OF ANY TREE OR BUSH. PAYMENT FOR TREE REMOVAL WILL BE ON A PER TREE BASIS PER THE BID SCHEDULE. IF NOT A BID ITEM, THE COST OF TREE REMOVAL SHALL BE INCLUDED IN ITEM 201, CLEARING AND GRUBBING.

OTHER TREES, TREE LIMBS, AND BUSHES THAT ARE SO LOCATED THAT EQUIPMENT OF THE CONTRACTOR WILL DAMAGE THEM DURING CONSTRUCTION, SHALL BE CAREFULLY TRIMMED AND SHAPED BY WORKMEN SKILLED IN THE TRIMMING. ALL LIMBS AND BRANCHES SHALL BE FLUSHED OUT. ALL EXPOSED SURFACES IN EXCESS OF ONE INCH DIAMETER SHALL BE IMMEDIATELY PAINTED WITH AN APPROVED PRUNING COMPOUND. TREES AND BUSHES, OTHER THAN THOSE WHOSE REMOVAL AS APPROVED BY THE ENGINEER, WHICH ARE DESTROYED OR DAMAGED TO THE EXTENT THAT THEIR CONTINUED LIFE IS IMPAIRED, SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE AND TO THE SATISFACTION OF THE OWNER. NO PAYMENT WILL BE MADE FOR TREE TRIMMING.

17. SEEDING, MULCHING AND TOPSOIL
ALL AREAS DISTURBED BY CONSTRUCTION AND NOT PAVED WITH SOME OTHER MATERIAL SHALL BE SEEDED, MULCHED, AND FERTILIZED ACCORDING TO ITEM 659 OF THE ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS, LATEST EDITION OR AS MODIFIED BY THESE SPECIFICATIONS. ALL AREAS DISTURBED BY CONSTRUCTION BETWEEN MARCH 15 AND OCTOBER 15 SHALL BE PERMANENTLY SEEDED WITHIN THIRTY (30) DAYS, BUT NO LATER THAN OCTOBER 15 UNLESS OTHERWISE APPROVED BY THE ENGINEER AND OWNER. ALL AREAS DISTURBED BY CONSTRUCTION BETWEEN SEPTEMBER 16 AND MARCH 14 SHALL BE STABILIZED IN ACCORDANCE WITH ITEM 207 OF ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS AND PERMANENTLY SEEDED AFTER MARCH 15 AS SOON AS WEATHER PERMITS.

ALL SEEDED AREAS SHALL HAVE A MINIMUM OF 4 INCHES OF TOPSOIL AS SPECIFIED AND PREPARED IN ACCORDANCE WITH ODOT ITEM 653. TOPSOIL SHALL BE PLACED AND TESTED PER ODOT ITEM 659 OF THE ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS, LATEST EDITION AND SHALL BE RAKED FREE OF ROCKS AND CLODS.

IN NO CASE SHALL THE RESTORED SEED BED TOPSOIL BE OF LESS THAN WAS PRESENT PRIOR TO CONSTRUCTION. ALL TOPSOIL AND SEED MUST BE APPROVED BY THE OWNER PRIOR TO PLACEMENT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR BACKFILLING, RESEEDING AND RE-FERTILIZING ANY TRENCH AREAS THAT MAY SETTLE AFTER THE PERMANENT SEEDING IS COMPLETED FOR THE WARRANTY TIME PERIOD SPECIFIED IN THE GENERAL CONDITIONS OF THE CONTRACT DOCUMENTS.

ALL AREAS REQUIRING SEEDING SHALL USE A SEED MIXTURE OF 60% PERENNIAL RYEGRASS, 20% KENTUCKY BLUEGRASS AND 20% CREEPING RED FESCUE, WITH GERMINATION RATES IDENTIFIED AS "HIGH QUALITY PERCENT" IN ODOT CMS TABLE 659.07-1. THE MIX SHALL BE FREE OF ALL WEED SEEDS INCLUDING NOXIOUS WEED SEEDS. THE PROPOSED MIX DESIGN MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL, WITH ADEQUATE TIME FOR REVIEW, PRIOR TO BEGINNING THE WORK.

ALL SEEDING AND MULCHING SHALL BE SOWN HYDRAULICALLY BY "HYDRO SEEDING" TECHNIQUES. THE SEEDED SLURRY SHALL BE APPLIED BY A HYDRAULIC SEEDER AT A RATE OF 3 LBS. PER 1,000 SQUARE FEET IN TWO INTERSECTING DIRECTIONS. HYDROMULCH WITH A TACKIFIER SHALL CONSIST OF 2/3 WOOD AND 1/3 PAPER FIBER AND SHALL BE APPLIED TO A MINIMUM THICKNESS OF 1/8 INCH. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESEEDING AREAS AS NECESSARY AT TIME INTERVALS APPROPRIATE FOR THE GROUND AND WEATHER CONDITIONS UNTIL A DENSE STAND OF GRASS IS OBTAINED. SEEDED AREAS SHALL BE MAINTAINED AND WATERED BY THE CONTRACTOR IN ACCORDANCE WITH ODOT ITEM 659 AND OTHER APPLICABLE SPECIFICATIONS.

18. SIDEWALKS
EXISTING CONCRETE OR BRICK SIDEWALKS WHICH MUST BE REMOVED OR WHICH ARE DAMAGED IN CONNECTION WITH THE WORK SHALL BE REPLACED UPON COMPLETION OF THE WORK. FULL DEPTH ODOT 304 SHALL BE REQUIRED UNDER ALL SIDEWALK REPLACEMENTS. NEW CONCRETE SIDEWALKS SHALL BE 4 INCHES THICK AND THE SAME WIDTH AS THE ORIGINAL SIDEWALK. SIDEWALKS IN NEW DEVELOPMENTS SHALL BE 5 FEET WIDE. SIDEWALKS PASSING THROUGH RESIDENTIAL DRIVEWAYS SHALL BE 6 INCHES THICK ON 4 INCHES OF ODOT 304. SIDEWALKS PASSING THROUGH COMMERCIAL DRIVEWAYS SHALL BE 8 INCHES THICK ON 6 INCHES OF ODOT 304. ALL CONCRETE SHALL BE A 4000 PSI AIR-ENTRAINED MIX. ALL MATERIAL SHALL BE APPROVED BY THE ENGINEER.

THE CONCRETE SHALL BE THOROUGHLY SPADED INTO PLACE AND STRUCK EVEN WITH THE TOP OF THE FORMS AFTER WHICH IT SHALL BE WOOD FLOATED TO A SMOOTH, SKID-RESISTANT BROOM SURFACE.

PROVIDE 1/2 INCH MASTIC EXPANSION STRIPS AT INTERVALS OF 40 FEET AND AT JUNCTIONS WITH OTHER WALLS OR STRUCTURES. SIDEWALKS OTHER THAN CONCRETE OR BRICK SHALL BE CLASSIFIED AS PAVEMENT AND SHALL BE REPLACED AS PREVIOUSLY SPECIFIED FOR THE APPROPRIATE TYPE OF PAVEMENT.

PAYMENT FOR THIS WORK IS TO BE INCLUDED IN THE APPROPRIATE ITEM REQUIRING SIDEWALK REMOVAL. SIDEWALK DAMAGED OUTSIDE THE TRENCH/WORK LIMITS SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.

19. CURBS AND GUTTERS
ANY CURB, CURB DRAIN OR CURB AND GUTTER WHICH IS DAMAGED OR REMOVED MUST BE REPLACED IN ITS ORIGINAL CONDITION AS FOUND.

20. EXISTING SURVEY POINTS
THE CONTRACTOR SHALL, PRIOR TO ACTUAL CONSTRUCTION, ERECT PROTECTIVE BARRICADES AROUND ALL VISIBLE SURVEY MONUMENTS THAT ARE TO REMAIN IN OR ADJACENT TO THE CONSTRUCTION LIMITS. ANY MONUMENT, BENCH MARK, CONTROL POINT, PROPERTY CORNER STAKE, PIN, OR MARKER DAMAGED OR DISTURBED BY CONSTRUCTION SHALL BE REPLACED BY A REGISTERED LAND SURVEYOR AT THE EXPENSE OF THE CONTRACTOR. SHOULD THE CONTRACTOR FAIL TO PROPERLY RESTORE THESE POINTS AFTER 21 DAYS, THE OWNER WILL RESTORE THEM AT THE CONTRACTOR'S EXPENSE.

21. CONNECTING TO/OR CROSSING EXISTING UTILITIES
WHERE THE PLANS PROVIDE FOR PROPOSED CONDUIT TO BE CONNECTED TO, OR TO CROSS OVER OR UNDER AN EXISTING UTILITY; IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE THE EXISTING UTILITY TO VERIFY LINE, GRADE, AND MATERIAL BEFORE ORDERING MATERIALS NECESSARY TO COMPLETE THE WORK AND LAYING THE PROPOSED CONDUIT. WHEN CONNECTING TO AN EXISTING MANHOLE, ALL PIPE PENETRATIONS SHALL BE SHOCK ABSORBENT AND SHEAR RESISTANT, DESIGNED TO PREVENT ANY DIRECT CONTACT BETWEEN THE PIPE AND MANHOLE AND SHALL PROVIDE A WATERTIGHT SEAL CONNECTION BETWEEN THE PIPE BARREL AND MANHOLE STRUCTURE WITH THE PIPE DEFLECTED UP TO 12-DEGREES IN ANY DIRECTION. THE FLEXIBLE JOINTS SHALL BE A-LOK, KOR-N-SEAL, PRESS WEDGE II OR APPROVED EQUAL.

22. RESTORATION OF EXISTING UTILITIES
WHEREVER EXISTING TELEPHONE, GAS OR OTHER UTILITIES REQUIRE RELOCATION, THE WORK SHALL BE DONE BY OTHERS. PLEASE CONTACT THE CITY OF BOWLING GREEN ELECTRIC DIVISION FOR RELOCATION OF ANY ELECTRIC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY UTILITIES DAMAGED DURING CONSTRUCTION.

23. EMBANKMENT CONSTRUCTION
WHERE NECESSARY TO CONSTRUCT PAVEMENT SUBGRADE IN FILL, THE CONTRACTOR SHALL REMOVE ALL TOPSOIL BENEATH THE PROPOSED PAVEMENT AND INCLUDE THE COST OF REMOVAL IN THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING.

24. TRENCH MAINTENANCE
AT ALL TIMES DURING THE PROGRESS OF THE WORK, AND UNTIL THE RELEASE FROM HIS GUARANTEE BY THE CITY, THE CONTRACTOR SHALL MAINTAIN ALL BACKFILLED TRENCHES. ANY SETTLEMENT THAT OCCURS DURING SUCH TIME SHALL BE FILLED IMMEDIATELY. ALL TRENCHES IN PAVED AREAS THAT ARE TO BE SUBSEQUENTLY REPAVED SHALL BE TEMPORARILY FILLED WITH COLD PATCH MATERIALS; IF SAID TRENCHES WILL NOT BE REPAVED WITHIN 7 CALENDAR DAYS OF BACKFILLING THE TRENCH.

25. RIGHT-OF-WAY RESTORATION
ALL FEATURES IN EXISTING RIGHTS-OF-WAY; INCLUDING PAVEMENT, DRIVES, WALKS, PIPES, SOD, ETC.; THAT ARE DISTURBED DUE TO CONSTRUCTION, SHALL BE REPLACED TO THE SATISFACTION OF THE ENGINEER.

26. ITEM 611, MANHOLE ADJUSTED TO GRADE, AS PER PLAN
IN ADDITION TO ITEM 611, THE EXISTING MANHOLE SHALL HAVE THE CASTING REMOVED AND REPLACED WITH A NEW CASTING AND CONCRETE COLLAR PER BG STD DWG 3-1. PAVEMENT SURROUNDING THE EXISTING CASTING SHALL BE REMOVED BY FIRST SAW CUTTING A CLEAN CIRCLE BY MEANS OF A MANHOLE SAW OR HOLE SAW AND THEN CAREFULLY REMOVE THE EXISTING PAVEMENT BETWEEN THE CASTING AND THE SAW CUT WITHOUT DAMAGING THE PAVEMENT TO REMAIN.

ALL WORK, INCLUDING BUT NOT LIMITED TO REMOVAL OF THE EXISTING FRAME AND COVER AND SURROUNDING PAVEMENT, MODIFICATION OF THE EXISTING STRUCTURE, NEW CASTING, FINAL ADJUSTMENT TO GRADE AND CASTING THE CONCRETE COLLAR, SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR ITEM 611, MANHOLE ADJUSTED TO GRADE, AS PER PLAN.

27. ITEM 638, VALVE BOX ADJUSTED TO GRADE, AS PER PLAN
IN ADDITION TO THE REQUIREMENTS OF CMS 638, VALVE BOXES ADJUSTED TO GRADE WITHIN PAVEMENT LIMITS SHALL RECEIVE A CONCRETE COLLAR AS DESCRIBED IN ITEM 611, MANHOLE ADJUSTED TO GRADE, AS PER PLAN.

28. WORK ZONE MARKINGS AND SIGNS
CONTRACTOR SHALL UTILIZE PAVEMENT MARKINGS AND SIGNS TO MAINTAIN TRAFFIC PER THE REQUIREMENTS OF 614.04 AND 614.11. THE COST OF THIS OPERATION SHALL BE INCLUDED IN THE LUMP SUM ITEM FOR MAINTAINING TRAFFIC.

29. AS-BUILT DRAWINGS
THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A COMPLETE SET OF CONSTRUCTION DRAWINGS CLEARLY MARKED TO SHOW ALL DEVIATIONS FROM THE APPROVED PLANS. AT COMPLETION OF CONSTRUCTION, THE CONTRACTOR WILL PROVIDE THE ENGINEER WITH A SET OF MARKED UP "AS-BUILT" DRAWINGS. THE ENGINEER ON RECORD FROM THE PROJECT SHALL SUPPLY THE ENGINEER AN AUTOCAD COMPATIBLE DIGITAL FILE WITH THE COMPLETED "AS-BUILT" DRAWINGS, CONTACT THE CITY OF BOWLING GREEN, ENGINEERING DIVISION FOR FURTHER DETAILS.