SPECIAL PROVISIONS FOR PLAN FILE NUMBER 244-98 ONLY.

1. STANDARD SPECIAL PROVISIONS, PLAN FILE NUMBER 52-4-51, DATED MAY 1, 2013 (OR LATEST REVISION THERE OF), ARE PART OF THIS CONTRACT.

2. THIS PROJECT HAS BEEN SUBMITTED TO THE MILWAUKEE METROPOLITAN SEWERAGE DISTRICT (MMSD) AND THE DEPARTMENT OF NATURAL RESOURCES (DNR) FOR APPROVALS. NO WORK SHALL BE PERFORMED ON THIS CONTRACT UNTIL MMSD AND DNR APPROVALS HAVE BEEN OBTAINED. APPROVALS ARE CURRENTLY ANTICIPATED TO BE OBTAINED BY FEBRUARY 24, 2017; HOWEVER THERE IS NO GUARANTEE OF SAME. THE CONSTRUCTION ENGINEER SHALL CONTACT MR. ANDY KAMINSKI (MMSD) AT (414) 225-2219 TO CONFIRM THAT THE APPROVALS HAVE BEEN GRANTED.

3. ALL OF THE WORK IN WEST HIGHLAND AVENUE SHALL BE COMPLETED BY MARCH 24, 2017. ALL OTHER WORK SHALL BE COMPLETED BY JUNE 16, 2017. ALL WORK SHALL BE CONTINUOUS AND THE NUMBER OF ALLOWABLE WORKDAYS IS 30 DAYS. A PROJECT WORKING DAY IS DEFINED AS ANY DAY THE CONTRACTOR IS ABLE TO WORK A MINIMUM OF FOUR HOURS TOWARDS COMPLETION OF THE PROJECT.

4. WEST HIGHLAND AVENUE IS ON THE 2017 CITY PAVING PROGRAM FOR ASPHALTIC CONCRETE RESURFACING. THE CONTRACTOR SHALL COORDINATE THE PROPOSED SEWER WORK WITH THE PAVING WORK. THE CONTRACTOR SHALL CONTACT MS. LYNN DES JARDINS AT (414) 286-0447 TO COORDINATE THE WORK.

5. WITHIN TEN (10) BUSINESS DAYS OF THE AWARD OF THIS CONTRACT, THE CONTRACTOR SHALL MAIL A NOTICE OF THE PROJECT TO THE CITY OF MILWAUKEE CONSTRUCTION SECTION AT 841 NORTH BROADWAY, ROOM 710, MILWAUKEE, WI 53202 FOR REVIEW AND APPROVAL. WITHIN FIVE (5) BUSINESS DAYS OF APPROVAL, THE CONTRACTOR SHALL MAIL THE PROJECT NOTICE TO ALL AFFECTED AREA RESIDENTS AND BUSINESSES. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL NOTICES ARE CONVEYED TO THE PUBLIC REGARDING THIS PROJECT. A SAMPLE NOTICE IS INCLUDED IN THE CONTRACT DOCUMENTS. CONTRACT WORK SHALL NOT START PRIOR TO COMPLETING THE NOTICE REQUIREMENT. ANY DELAY IN CONTRACT COMPLETION AS A RESULT OF NON-COMPLIANCE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

6. THE CONTRACTOR SHALL POST CITY OF MILWAUKEE PROJECT IDENTIFICATION ("BLUE") SIGNS AS DIRECTED ON EACH PROJECT IN THIS CONTRACT. THE CITY WILL PROVIDE BLANK SIGNS FOR THE CONTRACTOR TO FILL IN CONTACT INFORMATION AND POST.

7. ALL CONNECTIONS FOR BUILDING SEWERS AND DRAINS OF RECORD HAVE BEEN SHOWN ON THE PLAN. ALL ACTIVE BUILDING SEWERS AND DRAINS SHALL BE RECONNECTED TO THE NEW SEWER. THE CONTRACTOR SHALL FIELD VERIFY ALL ACTIVE LATERALS AND SHALL ONLY RECONNECT LATERALS WHICH ARE FOUND TO BE ACTIVE. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE 15-INCH DIAMETER COMBINED SEWER RELAY, CLASS 'C' BEDDING.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT NO ACTIVE BUILDING SEWERS ARE CONNECTED TO THE MAIN SEWERS OR MANHOLES TO BE ABANDONED PRIOR TO THEIR ABANDONMENT. THE CONTRACTOR SHALL CONTACT THE CONSTRUCTION ENGINEER IF ACTIVE BUILDING SEWERS ARE CONNECTED TO ANY PROPOSED SEWER ABANDONMENT.

9. IN ADDITION TO THE ALLOWABLE 1-1/2 INCH GRADED AGGREGATE, AS PER TABLE 39 OF SECTION 8.43.7 OF THE STANDARD SPECIFICATIONS, THE CONTRACTOR IS ALSO ALLOWED TO USE 1-1/4 INCH GRADED AGGREGATE. THE 1-1/4 INCH GRADED AGGREGATE SHALL MEET THE WISCONSIN DEPARTMENT OF TRANSPORTATION (WISDOT) STANDARDS, AS PER SECTION 305 DENSE GRADED BASE, CONFORMING TO THE TABLE LISTED AS "PERCENT PASSING BY WEIGHT" IN 2012 WISDOT STANDARD SPECIFICATIONS, SUBSECTION 305.2.2.1 GENERAL.

10. THE CONTRACTOR SHALL PROTECT AND SUPPORT ALL THE EXISTING UTILITIES WHILE RELAYING THE RESPECTIVE DIAMETER SEWERS. ALL UTILITIES SHALL BE SUPPORTED. THE COST OF SUPPORTING, RAT HOLING, OR TUNNELING UNDER THE EXISTING UTILITIES NECESSARY FOR THE PROPOSED SEWER RELAY SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE RESPECTIVE DIAMETER SEWER RELAY, CLASS 'C' BEDDING.

11. THE CONTRACTOR SHALL NOT RECONNECT OR REESTABLISH ANY HYDRANT DRAIN CONNECTIONS TO THE PROPOSED SEWER MAIN.

12. THE CITY OF MILWAUKEE HAS STREET LIGHTING FACILITIES AND PIPE AND CABLE CROSSINGS AT VARIOUS LOCATIONS THROUGHOUT THE PROJECT. DURING OPEN CUT TRENCHING, THE CONTRACTOR SHALL SUPPORT THESE CROSSINGS. ANY ALTERATIONS NEEDED TO THE CITY OF MILWAUKEE STREET LIGHTING FACILITIES MUST BE APPROVED BY THE STREET LIGHTING DEPARTMENT. THE CONTRACTOR SHALL PAY A SERVICE FEE OF APPROXIMATELY $2,200 TO $4,500 FOR EACH STREET LIGHTING ALTERATIONS; HOWEVER, IF ANY ADDITIONAL WORK IS REQUIRED FOR THE ALTERATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST.

    THE SUCCESSFUL CONTRACTOR MUST PAY THE NECESSARY SERVICE FEE PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE PROOF OF THE PAYMENT TO THE CONSTRUCTION ENGINEER BEFORE ANY STREET LIGHTING OR TRAFFIC SIGNAL ALTERATION WORK IS SCHEDULED. THE CONTRACTOR SHALL CONTACT MR. ENG-KIE LEE AT (414) 286-2174 FOR ANY NECESSARY STREET LIGHTING ALTERATIONS. THE CONTRACTOR SHALL CONTACT MR. JOSEPH BONDOWSKI AT (414) 286-5162 FOR ANY NECESSARY TRAFFIC SIGNAL ALTERATIONS.

    ANY DAMAGE TO THE CITY-OWNED STREET LIGHTING FACILITIES DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED BY THE CITY'S STREET LIGHTING DEPARTMENT AT THE CONTRACTOR'S EXPENSE. ANY DAMAGES SHALL BE REPORTED TO THE STREET LIGHTING SHOP AT (414) 286-5944.

13. THE CONTRACTOR SHALL SUPPORT CITY OF MILWAUKEE UNDERGROUND CONDUIT (CUC) FACILITIES WITH WOODEN BEAMS OR EQUAL SUPPORTS. THE CONTRACTOR SHALL USE EXTREME CAUTION AND TAKE THE NECESSARY PRECAUTIONS TO AVOID DAMAGING THE CUC FACILITIES. THE CONDUIT CONTAINS VITAL COMMUNICATIONS CABLES THAT MUST REMAIN IN SERVICE THROUGHOUT THE CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO CITY OF MILWAUKEE FACILITIES. CONTACT THE CITY DISPATCHER AT (414) 286-3481 IMMEDIATELY IF DAMAGE OCCURS.

14. THERE ARE VARIOUS OVERHEAD WIRES WITHIN THE PROJECT LIMITS THAT MAY REQUIRE TEMPORARY RELOCATIONS. THE COST OF ANY RELOCATION OF OVERHEAD UTILITIES SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE 15-INCH DIAMETER COMBINED SEWER RELAY, CLASS 'C' BEDDING.

15. THE CONTRACTOR SHALL MAINTAIN LOCAL TRAFFIC AND ACCESS TO ALL ADJOINING PROPERTIES AT ALL TIMES.

16. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL SUPPLY A TRAFFIC CONTROL PLAN OUTLINING TRAFFIC FLOW PATTERNS AROUND THE WORK ZONE AND ACCESS TO BUSINESSES AND RESIDENCES TO MS. SHARON BETTHAUSER AT (414) 286-3632 OF THE CITY OF MILWAUKEE TRANSPORTATION SECTION, MUNICIPAL BUILDING, ROOM 920. CONTACT MS. SHARON BETTHAUSER AT (414) 286-3632 WITH QUESTIONS REGARDING THE TRAFFIC CONTROL PLAN SUBMITTAL.

17. ALL SIGNS USED FOR TRAFFIC CONTROL SHALL MEET THE NEW NATIONAL REQUIREMENTS FOR SIGN RETROREFLECTIVITY STANDARDS.

18. THE CONTRACTOR SHALL CONTACT MS. SHARON BETTHAUSER AT (414) 286-3632 OF THE CITY OF MILWAUKEE TRANSPORTATION SECTION AT LEAST THREE (3) DAYS PRIOR TO THE START OF THE PROJECT REGARDING THE INSTALLATION OF TEMPORARY "NO PARKING" SIGNS THE CONTRACTOR SHALL ALSO CONTACT MS. BETTHAUSER TO ARRANGE FOR THE REMOVAL OF SIGNS IN THE PROJECT LIMITS AFTER CONSTRUCTION WORK IS COMPLETED.

19. THERE ARE EXISTING CITY OF MILWAUKEE TREES WITHIN THE PROJECT LIMITS. NO TREE PRUNING/TRIMMING WORK SHALL BE DONE BY THE SEWER CONTRACTOR. ANY REQUIRED TREE PRUNING WILL BE DONE BY THE FORESTRY DEPARTMENT BEFORE PROJECTED START DATE. ANY TREE REMOVALS MUST BE FIRST APPROVED BY THE FORESTRY DEPARTMENT. THE COST OF ANY REMOVALS SHALL BE INCLUDED IN THE BID PRICE OF THE RESPECTIVE SEWER WORK UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL CONTACT MR. DWAYNE REINHARDT, FORESTRY INSPECTOR, AT (414) 708-2438 REGARDING ANY FORESTRY WORK.

20. THE CONTRACTOR SHALL PROVIDE THE CITY WITH TWO (2) COPIES OF A POST-INSTALLATION DVD EXAMINATION AND REPORT OF THE SEWER. THESE VIDEO EXAMS WILL BECOME THE PROPERTY OF THE CITY OF MILWAUKEE. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE SEWER EXAMS BY CCTV, POST-CONSTRUCTION.

21. THE CONTRACTOR SHALL CONTACT MR. MIKE CHANESKE AT (414) 286-5965 OF THE CITY OF MILWAUKEE TRAFFIC SECTION IF STREET SIGNS OR STOP SIGNS ARE TAKEN DOWN OR DISTURBED DURING CONSTRUCTION. THE CONTRACTOR IS DIRECTED TO CALL FOR ANY REINSTALLATION OF THE SIGNS. A CITY CREW WILL REINSTALL THE SIGNS.

22. THE PAVEMENT REPLACEMENT IN NORTH 16TH STREET SHALL CONSIST OF THE 4-INCH ASPHALTIC CONCRETE. ALL PAVEMENT RESTORATION SHALL BE LIMITED TO A WIDTH OF THE OUTSIDE DIAMETER OF THE PIPE PLUS FOUR FEET, CENTERED ON THE PROPOSED PIPE.

23. THE PAVEMENT REPLACEMENT IN WEST HIGHLAND AVENUE SHALL CONSIST OF THE CONCRETE PAVEMENT. ALL PAVEMENT RESTORATION SHALL BE LIMITED TO A WIDTH OF THE OUTSIDE DIAMETER OF THE PIPE PLUS FOUR FEET, CENTERED ON THE PROPOSED PIPE.

24. WEST HIGHLAND AVENUE IS A MILWAUKEE COUNTY TRANSIT SYSTEM (MCTS) BUS ROUTE. NO CONSTRUCTION EQUIPMENT SHALL BE STORED IN THIS STREET. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO MINIMIZE ANY TRAFFIC DISRUPTIONS CAUSED BY PROPOSED SEWER WORK ON THIS CONTRACT.

25. THE CONTRACTOR SHALL INSTALL CONCRETE COLLARS TO CONNECT THE EXISTING SEWERS TO THE 4-FOOT DIAMETER MANHOLES NUMBER 39OB071 AND 39OB072 AND TO THE 5-FOOT DIAMETER MANHOLE NUMBER 39OB009. THE COLLAR SHALL BE A MINIMUM OF 12 INCHES THICK FROM THE EXTREME EDGE OF THE SEWER AND A MINIMUM OF 36 INCHES LONG, CENTERED FROM THE TRANSIT LINES OF BOTH THE EXISTING AND NEW PIPES. THE CONTRACTOR SHALL PROTECT AND SUPPORT ALL OF THE EXISTING UTILITIES WHILE INSTALLING THE COLLAR. ALL THE COSTS ASSOCIATED WITH INSTALLING THE CONCRETE COLLARS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE CONCRETE COLLAR.

26. THERE IS A 4-INCH AND 8-INCH WATER MAIN ALTERATION IN WEST HIGHLAND AVENUE AND THE ALTERATION WORK SHALL BE PART OF THIS CONTRACT. ALL WORK REQUIRED ON CITY OF MILWAUKEE WATER MAINS, SERVICES, AND BRANCHES SHALL BE DONE IN ACCORDANCE WITH THE CITY OF MILWAUKEE "WATER MAIN INSTALLATION SPECIFICATIONS" DATED JANUARY 2, 1987. ADDITIONALLY, ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MILWAUKEE WATER WORKS "SPECIAL PROVISIONS FOR WATER MAIN CONSTRUCTIONS." ACTIVE BRANCHES AND SERVICES VERIFIED TO BE IN CONFLICT WITH THE PROPOSED SEWER SHALL BE ADJUSTED TO MAINTAIN 6-FEET OF COVER AND 18-INCHES OF CLEARANCE BELOW THE PROPOSED SEWER (SEE WATER PLAN **.) TEN (10) DAYS PRIOR TO THE SEWER WORK. THE SEWER CONTRACTOR SHALL CONTACT MR. RICO LOPEZ AT (414) 286-5983 TO OBTAIN PROPER WATER FITTINGS FOR THE WATER MAIN ALTERATION.

27. THE CONTRACTOR SHALL REMOVE AND REPLACE THE WOODEN BARRICADE NEAR MANHOLE 39OB072. ALL THE COSTS ASSOCIATED WITH THIS WORK, INCLUDING FURNISHING OF ALL LABOR AND MATERIALS NECESSARY TO COMPLETE THE WORK, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR 15-INCH DIAMETER COMBINED SEWER RELAY, CLASS 'C' BEDDING.

28. SPECIAL CARE MUST BE TAKEN NEAR MANHOLE 39OB072 TO PROTECT AND SUPPORT THE FOUNDATION AND WALLS OF THE EXISTING GARAGE DURING THE SEWER WORK. THE CONTRACTOR SHALL THOROUGHLY DOCUMENT AND PHOTOGRAPH THE CONDITION OF THE FOUNDATION AND WALLS NEAR MANHOLE 39OB072 AND TRANSMIT THESE PHOTOGRAPHS TO MR. ZAFAR YOUSUF OF THE ENVIRONMENTAL ENGINEERING SECTION PRIOR TO SAWCUTTING AND EXCAVATION. THE CONTRACTOR SHALL PROTECT AND SUPPORT THE FOUNDATION USING TIGHT SHEATHING OR SHORING AND BRACING PER THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR 4'-0" DIA. COMBINED MANHOLE.

29. THERE IS AN EXISTING SPRINKLER SYSTEM IN THE MEDIAN TRAFFIC ISLAND. WHERE NECESSARY, THE CONTRACTOR SHALL PROTECT AND SUPPORT THE EXISTING SPRINKLER SYSTEM BY TUNNELING OR RAT HOLING UNDER THE EXISTING PIPE. THE CONTRACTOR SHALL CONTACT THE CITY FORESTRY INSPECTOR AT (414) 286-3042 OR AT (414) 708-2438 THREE DAYS PRIOR TO CONSTRUCTION OF SEWER RELAY WORK. A COPY OF THE IRRIGATION PIPE PLAN MAY BE OBTAINED UPON REQUEST FROM THE FORESTRY DIVISION AT (414) 286-3531. ANY DAMAGE TO THE CITY-OWNED SPRINKLER SYSTEM DUE TO CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED BY THE CITY'S FORESTRY DEPARTMENT AT THE CONTRACTOR'S EXPENSE. THE COST OF PROTECTING AND SUPPORTING THE EXISTING SPRINKLER SYSTEM AND RESTORATION OF DAMAGED TURF IN THE MEDIAN ISLANDS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE 12-INCH DIAMETER STORM SEWER RELAY, CLASS 'C' BEDDING.

30. THE CITY OF MILWAUKEE HAS APPLIED FOR FUNDING FOR ALL PROJECTS IN THIS CONTRACT THROUGH THE CLEAN WATER FUND (CWF) LOAN ADMINISTERED BY THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES. THIS CONTRACT IS SUBJECT TO THE DAVIS-BACON COMPLIANCE PROVISIONS. THE CONTRACTOR SHALL USE THE HIGHER WAGE RATE TABLE BETWEEN THE PREVAILING WAGE RATE ISSUED BY THE STATE OF WISCONSIN AND THE DAVIS-BACON WAGE RATE TABLES AS ISSUED BY THE U.S. DEPARTMENT OF LABOR, WAGE AND HOUR DIVISION. THE CONTRACTOR SHALL SUBMIT WEEKLY PAYROLL CERTIFICATION UTILIZING THE PAYROLL FORM INCLUDED IN THE CONTRACT DOCUMENTS OR EQUIVALENT.

31. ALL IRON AND STEEL PRODUCTS PROVIDED BY THE CONTRACTOR SHALL BE PRODUCED IN THE UNITED STATES AND COMPLY WITH THE AMERICAN IRON AND STEEL REQUIREMENT (AIS). CONTRACTOR TO PROVIDE AIS CERTIFICATION FOR ALL IRON AND STEEL PRODUCTS SUPPLIED FOR THIS CONTRACT.

SPECIAL PROVISION FOR WATER SERVICE LATERALS

32. DUE TO PRESENCE OF LEAD WATER SERVICE LATERALS, THE CONTRACTOR SHALL NOT DISTURB WATER SERVICES AT ANY TIME. THE CONTRACTOR SHALL SUPPORT AND PROTECT ALL WATER SERVICE LATERALS DURING OPEN CUT EXCAVATIONS. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION NOT TO DAMAGE ANY WATER SERVICE LATERALS. THE APPROXIMATE LOCATION OF THE WATER SERVICES WILL BE FIELD LOCATED BY CITY CREWS (VIA DIGGER'S HOTLINE) USING THE CURB STOP (IF VISIBLE) OR THE MEASUREMENT FROM SYSTEM MAPS. IF THE CURB STOP IS NOT VISIBLE, THE CONTRACTOR SHALL CONFIRM THE SERVICE LOCATION USING A PIPE LOCATOR, SIMILAR TO A "RIGID" PIPE LOCATOR, PRIOR TO EXCAVATING FOR THE SEWER. ALL COSTS FOR PIPE DETECTION SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE RESPECTIVE DIAMETER SEWER RELAY. IF THE CONTRACTOR DAMAGES ANY WATER SERVICE LATERALS DURING CONSTRUCTION, THE CONTRACTOR SHALL BE HELD RESPONSIBLE TO IMMEDIATELY REPLACE THE ENTIRE WATER SERVICE LATERAL FROM THE CORPORATION STOP ON THE WATER MAIN TO THE PROPERTY LINE CURB STOP BOX. THE COST OF REPLACING THE ENTIRE WATER SERVICE LATERAL, INCLUSIVE OF SURFACE RESTORATION, SAW CUTTING CLEAN PAVEMENT EDGES, ETC., SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

    IN THE EVENT A WATER SERVICE LATERAL IS DAMAGED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE CONSTRUCTION SUPERVISOR ON DUTY.

    UPON NOTICE, THE CITY'S WATER DEPARTMENT PERSONNEL SHALL PROVIDE A NEW CORPORATION STOP, CURB STOP, STOP BOX AND SERVICE INSULATOR TO BE PICKED UP BY THE CONTRACTOR AT THE WATER STORES FACILITY. ALL OTHER MATERIALS REQUIRED TO REPLACE THE LEAD SERVICE AND RECONNECT TO THE EXISTING SERVICE LINE, INCLUSIVE OF COPPER PIPING TYPE-K (MINIMUM 1" DIAMETER), SHALL BE SUPPLIED BY THE CONTRACTOR.

    IN THE EVENT AN EXISTING LEAK IS DISCOVERED ON A LEAD WATER SERVICE, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE CONSTRUCTION SUPERVISOR ON DUTY. THE CONTRACTOR SHALL REPLACE THE ENTIRE WATER SERVICE LATERAL FROM THE CORPORATION STOP ON THE WATER MAIN TO THE PROPERTY LINE CURB STOP BOX. UPON NOTICE, THE CITY'S WATER DEPARTMENT PERSONNEL SHALL PROVIDE A NEW CORPORATION STOP, CURB STOP, STOP BOX AND SERVICE INSULATOR TO BE PICKED UP BY THE CONTRACTOR AT THE WATER STORES FACILITY. THE COST OF REPLACEMENT FOR AN EXISTING LEAK SHALL BE PER CONTRACT BID ITEMS.

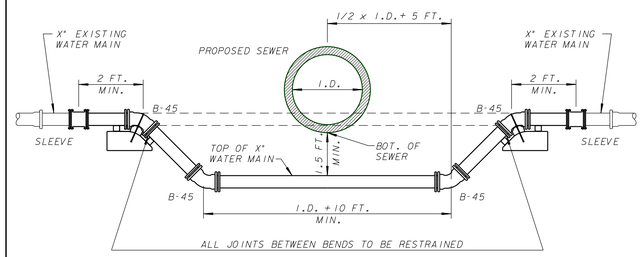
    THE CONTRACT BID ITEM FOR "COPPER WATER SERVICE - LIN. FT." SHALL INCLUDE ALL COSTS TO FURNISH AND INSTALL ALL MATERIALS REQUIRED (EXCLUSIVE OF NOTED FITTINGS SUPPLIED BY WATER WORKS) TO REPLACE A LEAD SERVICE WITH AN EXISTING LEAK FROM THE CORPORATION STOP TO THE CURB STOP BOX AND RECONNECT TO THE EXISTING SERVICE LINE, INCLUDING COPPER SERVICE PIPING TYPE-K (MINIMUM 1" DIAMETER). SURFACE RESTORATION SHALL BE PER CONTRACT BID ITEMS FOR PAVEMENT. SAW CUTTING SHALL BE PAID PER THE CONTRACT BID ITEM AND LIMITED TO FOUR (4) FEET WIDTH. IF SAW CUTTING IS NOT PERFORMED IMMEDIATELY, CONTRACTOR SHALL SAW CUT CLEAN PAVEMENT EDGES PRIOR TO PERMANENT PAVEMENT RESTORATION. ADDITIONAL SURFACE RESTORATION FOR CURB AND GUTTER, WALK, SOD ETC. SHALL BE INCLUDED IN THE UNIT PRICE BID FOR "COPPER WATER SERVICE". NOTE THAT THE BID ITEM QUANTITY FOR "COPPER WATER SERVICE - LIN FT." MAY BE REDUCED OR ELIMINATED FROM THE CONTRACT DUE TO FIELD CONDITIONS, AND SUCH REDUCTION SHALL NOT GIVE RISE TO REQUEST AN INCREASE IN PRICE BID PER LIN. FT.

Milwaukee Water Works

Water Engineering
Department of Public Works

SO-1
DRAWN: 05-02-14

STANDARD (4-16") WATER MAIN VERTICAL OFFSET BELOW PROPOSED SEWER



DRAWING NOT TO SCALE

NOTES:

1) ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF MILWAUKEE "WATER MAIN INSTALLATION SPECIFICATIONS", DATED JANUARY 2, 1987. ADDITIONALLY, ALL WORK SHALL BE DONE IN ACCORDANCE WITH "THE MILWAUKEE WATER WORKS STANDARD PLAN NOTES REGARDING WATER MAIN CONSTRUCTION".

2) THE MILWAUKEE WATER WORKS WILL FURNISH WATER MAIN MATERIALS AS INDICATED IN SPECIFICATION SECTION 4.3.1.

3) THE CONTRACTOR SHALL FURNISH ALL OTHER ITEMS REQUIRED TO COMPLETE THIS PROJECT.

4) DUCTILE IRON PIPE AND FITTINGS MAY BE RESTRAINED USING MJ FIELDLOK RESTRAINT. BUTTRESSING MAY BE REQUIRED IN ADDITION TO THE FIELD LOK RESTRAINT. CONTRACTOR SHALL NOTIFY MWW AT 414-286-8167 IF FIELD LOK RESTRAINT WILL BE USED. ADDITIONAL REQUIREMENTS FOR USE OF FIELD LOK RESTRAINT IS DETAILED IN THE STANDARD PLAN NOTES.

5) THE REQUIREMENTS FOR BACKFILL AND BEDDING MATERIAL SHALL BE AS STATED IN THE "THE MILWAUKEE WATER WORKS STANDARD PLAN NOTES REGARDING WATER MAIN CONSTRUCTION".

6) THE TOP BEND AT EACH END OF VERTICAL OFFSET WILL REQUIRE ANCHORS PER MWW SPEC DRAWINGS 10 AND 11.

7) ALL MATERIALS WILL REQUIRE INSPECTION BY THE CITY. THE CONTRACTOR SHALL ALLOW FOUR (4) WORKING DAYS NOTICE PRIOR TO START OF CONSTRUCTION FOR MATERIAL INSPECTION. CONTRACTOR SHALL CONTACT MR. STEVEN BRENGOSZ AT 414-286-2391 OR 414-708-2808 FOR MATERIAL INSPECTION.

8) THE MILWAUKEE WATER WORKS WILL SHUT OFF THE EXISTING WATER MAIN. PLEASE CONTACT MR. STEVEN CIANCIOLA OF THE CONSTRUCTION SECTION AT 414-708-3887, THREE (3) DAYS PRIOR, TO SCHEDULE THE NECESSARY SHUT-OFFS.

9) FOR CITY PROVIDED FITTINGS, THE SEWER CONTRACTOR SHALL CONTACT RICARDO LOPEZ, INVENTORY MANAGER, 414-286-6123. PROVIDE A LIST OF FITTINGS REQUIRED, THE SEWER PROJECT NUMBER AND LOCATION. CONTRACTOR IS REQUIRED TO PICK UP ALL MATERIAL.

FITTINGS LIST
4 - BX-45
2 - SLX

SHEET 1 OF 7 IS PLAN FILE NO. 244-9
SHEET 2 OF 7 IS PLAN FILE NO. 244-98
SHEET 3 OF 7 IS PLAN FILE NO. 245-86
SHEET 4 OF 7 IS PLAN FILE NO. 244-99
SHEET 5 OF 7 IS PLAN FILE NO. 244-95
SHEET 6 OF 7 IS PLAN FILE NO. 245-31
SHEET 7 OF 7 IS PLAN FILE NO. 244-100

WISCONSIN
ZAFAR S. YOUSUF
E-30840
MILWAUKEE, WI
PROFESSIONAL ENGINEER

CALL DIGGERS HOTLINE
1-800-242-8511
TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND BEFORE YOU DIG. WISCONSIN STATUTE 182.0175 REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE

NO.	BY	REVISION	DATE

AS BUILT CONTRACT NO.
DATE ENT'D. ENT'D. BY

ENVIRONMENTAL ENGINEERING SECTION
INFRASTRUCTURE SERVICES DIVISION
DEPARTMENT OF PUBLIC WORKS
MILWAUKEE, WISCONSIN

SPECIAL PROVISIONS

IN **N. 16TH STREET**
FROM **W. STATE STREET**
TO **W. HIGHLAND AVENUE**

SCALE	N.T.S.	APPROVED	DATE
1/4 SEC. NO.	390	Zafar Yousuf — DESIGN ENGINEER	12/20/2016
PLAN DATE	10/21/16		
DESIGNED BY	J. BARMAN	Nader Zaher — ENGINEER IN CHARGE	12/20/2016
DRAWN BY	L. KROLASIK		
CHECKED BY	R. PARIKH		
SYSTEM NO.	3102	CITY ENGINEER & SPECIAL DEPUTY COMMISSIONER OF PUBLIC WORKS	12/20/2016
EASEMENT NO.	2254,2255		
CONTRACT NO.		PROJECT NO. 1	C.C. FILE NO. 160589
PROJ. ID.	SM495160068	OFF. NOTICE NO. 4-2017	DATE ADOPTED 9/20/16

SHEET NO. 3 OF 7 PLAN FILE NO. **245-86**

MMSD _____ SCANNED _____ MICROFILMED _____