

ESTIMATE OF QUANTITIES
FOR BIDDING

- FURNISH PIPE AND INSTALL
(DUCTILE IRON PUSH-ON RUBBER GASKET JOINT)
5 FT. - 6" HYDRANT BRANCH
- INSTALL
2 - HYDRANT
- PERMANENT PAVEMENT
6 SQ. YDS. - 3" TEMP. BITUMINOUS PREMIX
- CURB AND GUTTER
12 LIN. FT. - TEMP. BITUMINOUS PREMIX

BARRICADES AND TRAFFIC CONTROL

- LUMP SUM
- SAWCUTTING
25 LIN. FT. - IN ASPHALT ON CONCRETE BASE (FULL DEPTH)
- FINISHING OF ROADWAY
LUMP SUM
- FURNISH, INSTALL, AND MAINTAIN EROSION CONTROL
LUMP SUM
- 20 CU. YDS. EXCESS EXCAVATED MATERIAL

FOLLOWING IS A LIST OF THE FITTINGS SHOWN ON THIS CONSTRUCTION PLAN THAT WILL BE PROVIDED BY THE CITY.

- 1 - V6
- 1 - VB-DD
- 1 - VALVE BOX 18" EXT.
- 1 - H (8.5)
- 1 - H (8.0)
- 1 - SL6(10P)

PAVEMENT TYPE

S. WATER ST. IS ON THE 2014 STATE PAVING PROGRAM. (1302-00-73)

EXISTING PAVEMENT IN

- S. WATER ST. - E. NATIONAL AVE. TO E. WALKER ST.
3" BADGER ROCK, CROWN ROCK, KYROCK, COLD PROVIA (1931) ON 8" CONCRETE BASE (1931)
- S. WATER ST. - E. WALKER ST. TO E. WASHINGTON ST.
3" BADGER ROCK, CROWN ROCK, KYROCK, COLD PROVIA (1931) ON 8" CONCRETE BASE (1931)

ABANDONMENT OF WATER MAINS, VALVES, AND HYDRANTS

- 2 - HYDRANT

BENCHMARKS

- HYD E/S WATER STA 9+75- 25' RT.
HW BOLT ELEV+ 6.49
- SPIKE IN WP E/S STA 6+68- 25' RT.
ELEV+ 4.72
- SPIKE IN WP E/S STA 5+51- 24' RT.
ELEV+ 4.80
- SPIKE IN WP E/S STA 3+54- 24' RT.
ELEV+ 4.37

PLAN LINE & UTILITY LEGEND

GAS	○	SANITARY SEWER	—	STREET LIGHTING	—
STORM SEWER	○	CITY UNDERGROUND CONDUIT	—	PROPOSED CURB / PVM	—
TELEPHONE	○	COMBINED SEWER	—	PAVING LIMITS	—
CABLE TELEVISION	○	WATER MAIN	—	STRUCTURE / BUILDING	—
FIBER OPTICS	○	WATER SERVICE	—	FENCE	—
PROPOSED UTILITY	○	PRESSURE DISTRICT	—		
POWER POLES	○	CONCRETE	○	ALUMINUM	○
	○	WOOD	○	WATER MAIN VALVES	+
	○	GATE	+	BUTTERFLY	○
	○	WATER SERVICE	○		
UTILITIES	○	TRAFFIC SIGNAL	⊠	TRAFFIC CONTROL BOX	⊠
	○	GAS VALVE	⊠	HYDRANTS	○
	○	1 NOZZLE	○	3 NOZZLE	○

GENERAL NOTES

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", WHICH IS ATTACHED AND MADE PART OF THESE WATER MAIN PLANS AND CONTRACT DOCUMENTS.

THE DEPARTMENT OF PUBLIC WORKS GENERAL SPECIFICATIONS, DATED JANUARY 31, 1992, LATEST REVISION, APPLIES TO THIS CONTRACT AND WILL SUPERSEDE ANY PART OF THE SPECIFICATIONS WHICH DIFFERS THEREFROM.

THE MILWAUKEE WATER WORKS WILL FURNISH WATER MAIN MATERIALS AS INDICATED IN SPECIFICATION SECTION 4.3.1. THE CONTRACTOR SHALL FURNISH TEMPORARY TEST CAPS AND PLUGS. THE CONTRACTOR SHALL FURNISH ALL OTHER ITEMS REQUIRED TO COMPLETE THIS PROJECT.

VALVE BOX BASE ADAPTERS

ALL VALVE BOXES SHALL BE INSTALLED ON GATE VALVES WITH THE USE OF THE VALVE BOX BASE ADAPTERS. "ADAPTOR 11" AS MANUFACTURED BY ADAPTOR INC. OR AN APPROVED EQUAL. THE ADAPTER SHALL BE INSTALLED IN ADDITION TO THE HARDWOOD BLOCKING. COST OF THE ADAPTER SHALL BE INCLUDED IN THE UNIT BID PRICE TO FURNISH AND INSTALL WATER MAIN.

BACKFILL AND BEDDING MATERIAL

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

HYDRANTS

THE CONTRACTOR SHALL RETURN ALL ABANDONED HYDRANTS TO THE DPW FIELD HEADQUARTERS - INFRASTRUCTURE, OPERATIONS, WATER WORKS. CONTACT MR. BEN GLATZEL AT 414-708-2839 FOR ADDITIONAL INFORMATION.

PROJECT IDENTIFICATION

THE CONTRACTOR SHALL POST CITY OF MILWAUKEE PROJECT IDENTIFICATION ("BLUE") SIGNS AS DIRECTED ON EACH PROJECT IN THIS CONTRACT. THE CITY OF MILWAUKEE CONSTRUCTION SECTION WILL PROVIDE BLANK SIGNS FOR THE CONTRACTOR TO FILL IN CONTACT INFORMATION AND POST. THE ENTIRE COST OF THIS WORK SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR TRAFFIC CONTROL AND BARRICADING.

C.O.S. NOTE

TAPS REQUIRED FOR RE-CONNECTING SERVICES SHALL BE MADE BY THE CONTRACTOR. TAPS SHALL BE MADE AND CORPORATION STOPS INSTALLED PRIOR TO PRESSURE TEST. ALL COSTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONNECT ORIGINAL SERVICE.

NO LEAD BRASS NOTE

IN ACCORDANCE WITH SENATE BILL 3874, EFFECTIVE AS OF JANUARY 4, 2014, ALL BRASS PRODUCTS USED TO COMPLETE THE WATER MAIN PROJECT, SHALL BE "LEAD FREE".

HYDRANT PERMITS

A \$65.00 HYDRANT PERMIT/USE FEE WILL BE PART OF THE HYDRANT USE PERMIT. THIS FEE IS PER HYDRANT PER WEEK.

IT IS THE INTENTION OF THE CITY OF MILWAUKEE TO METER AND RECORD ALL WATER USE ON THIS CONTRACT. THE CONTRACTOR MUST OBTAIN A HYDRANT PERMIT FOR THIS CONTRACT WHICH INCLUDES THE REQUIREMENT OF A METER TO MEASURE WATER USAGE. THIS PERMIT CAN BE OBTAINED FROM THE CITY'S DEVELOPMENT CENTER LOCATED AT 809 N. BROADWAY.

IF IT IS FOUND THAT THE CONTRACTOR IS NOT FOLLOWING THE STANDARD HYDRANT PERMIT USE RULES, THE CITY OF MILWAUKEE WILL TAKE NORMAL ENFORCEMENT ACTION.

MILWAUKEE WATER WORKS ONLY PROJECTS ISSUED THROUGH DPW

THE PERMIT REQUIRES THE CONTRACTOR TO PLACE A REFUNDABLE \$675.00 DEPOSIT FOR EACH METER TO BE USED. THE CONTRACTOR WILL NOT BE REQUIRED TO PAY \$325.00 FOR THE SETUP OF THE METER. THE \$65.00 HYDRANT PERMIT/USE FEE WILL BE WAIVED BY THE UTILITY. THE CONTRACTOR WILL NOT BE CHARGED FOR THE VOLUME OF WATER USED.

QUESTIONS, ARRANGING INSTALLATIONS, AND READINGS

MWW METER SERVICES DISPATCHER, 414-286-2865
MWW METER SERVICES, 414-286-8010

JOINT RESTRAINT OPTION

DUCTILE IRON PIPE AND FITTINGS (EXCEPT HYDRANT BRANCHES) MAY BE RESTRAINED USING FIELDLOK OR MJ FIELDLOK RESTRAINT. BUTRESSING MAY BE REQUIRED IN ADDITION TO THE FIELD LOK RESTRAINT.

CONTRACTOR SHALL NOTIFY MWW 414-286-8167 IF FIELD LOK RESTRAINT WILL BE USED PRIOR TO THE REQUIRED EROSION CONTROL SUBMITTAL. ADDITIONAL REQUIREMENTS FOR USE OF FIELD LOK RESTRAINT IS DETAILED IN THE STANDARD PLAN NOTES INCLUDED IN BID DOCUMENTS.

RESIDENT / BUSINESS NOTIFICATION

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 N. 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 AND INCLUDE ANY INFORMATION DEEMED NECESSARY FOR THE SUCCESSFUL PERFORMANCE OF THE CONTRACT.

IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL NOTICES ARE CONVEYED TO THE PUBLIC REGARDING THIS PROJECT. A MILWAUKEE WATER WORKS SAMPLE NOTICE IS INCLUDED IN THE CONTRACT DOCUMENTS. THE ENTIRE COST OF THIS WORK SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR BARRICADES AND TRAFFIC CONTROL. 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.

SCHEDULE

COORDINATE WORK AS NECESSARY WITH PAVING CONTRACTORS ON S. WATER ST. (1302-00-73), S. HOWELL AVE. (2060-15-71), S. 27TH ST. (2265-08-70), AND N. LOVERS LANE (2030-09-70).

COORDINATE HYDRANT ALTERATIONS IN S. WATER ST. WITH PAVING CONTRACTOR. COORDINATE HYDRANT ALTERATION IN S. 27TH ST AT STAB-20 WITH PAVING CONTRACTOR. ALL OTHER WORK ON THIS CONTRACT, INCLUDING PAVEMENT RESTORATION, SHALL BE COMPLETED BY MAY 23, 2014

EACH PROJECT IN THIS CONTRACT IS ASSIGNED AN ALLOWABLE NUMBER OF PROJECT WORKING DAYS. A PROJECT WORKING DAY IS DEFINED AS ANY DAY THE CONTRACTOR IS ABLE TO WORK A MINIMUM OF FOUR (4) HOURS TOWARDS COMPLETION OF THE PROJECT. FOLLOWING IS A LIST OF WATER MAIN INSTALLATION PROJECTS INCLUDED IN THIS CONTRACT AND THE ALLOWABLE PROJECT WORKING DAYS FOR EACH:

- S. WATER ST. FROM E. WASHINGTON ST. E. NATIONAL AVE.
PLAN FILE NO. 2014014 - 5 WORKING DAYS
- S. HOWELL AVE. FROM W. GRANGE AVE. TO W. COLLEGE AVE..
PLAN FILE NO. 2014015 - 5 WORKING DAYS
- S. 27TH ST. FROM 930FT N/O W. OKLAHOMA AVE. TO W. HOWARD AVE..
PLAN FILE NO. 2014016 - 8 WORKING DAYS
- S. 60TH ST. FROM W. ALLERTON AVE. TO 1236FT S/O W. LAYTON AVE..
PLAN FILE NO. 2014017 - 7 WORKING DAYS
- N. LOVERS LANE RD. AT W. HAMPTON AVE..
PLAN FILE NO. 2014018 - 5 WORKING DAYS
- N. 9TH ST. AT W. STATE ST..
PLAN FILE NO. 2014018 - 6 WORKING DAYS

TRAFFIC PROVISIONS

MAINTAIN TWO WAY TRAFFIC.

PAVEMENT MARKINGS MUST BE RETURNED TO ORIGINAL MATERIAL AND CONDITION.

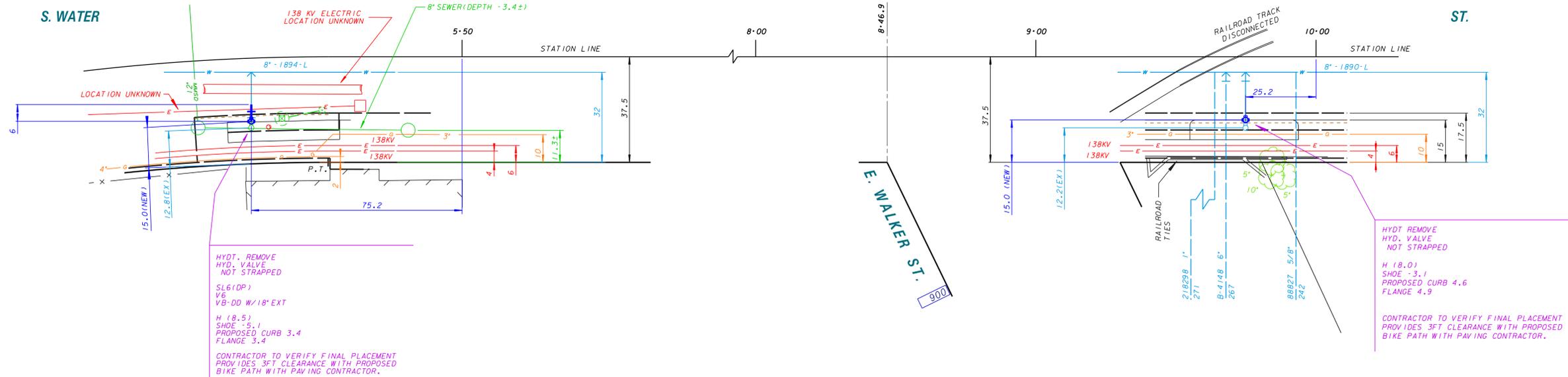
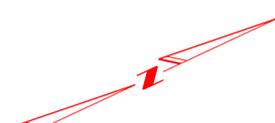
PLEASE CONTACT TRAFFIC ENGINEERING AT 286-3632 FOR THE INSTALLATION OF TEMPORARY "NO PARKING" SIGNS OR IF THERE ARE ANY QUESTIONS CONCERNING THESE COMMENTS.

ANY PERSON WORKING IN THE PUBLIC WAY SHALL COMPLY WITH THE CITY OF MILWAUKEE, DEPARTMENT OF PUBLIC WORKS BOOKLET, "TRAFFIC CONTROL FOR CONSTRUCTION AND MAINTENANCE WORK" AND PART VI OF THE STATE OF WISCONSIN "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".

STREET LIGHTING NOTE

STREET LIGHTING HAS PIPES AND CABLES CROSSING WITHIN THE PROJECT LIMITS. THESE PIPES AND CABLES SHALL BE SUPPORTED IF OPEN CUT TRENCHING IS USED. DAMAGES SHALL BE REPORTED TO THE STREET LIGHTING SHOP AT 414-286-3425.

IF THERE ARE ANY IMPACTS TO CITY OF MILWAUKEE STREET LIGHTING EQUIPMENT, THE CONTRACTOR SHALL CONTACT ENG-KIE LEE IN ENGINEERING AT 414-286-2174 FOR NECESSARY ALTERATIONS.



HYDT. REMOVE
HYD. VALVE
NOT STRAPPED

SL6(10P)
V6
VB-DD W/18" EXT

H (8.5)
SHOE - 3.1
PROPOSED CURB 3.4
FLANGE 3.4

CONTRACTOR TO VERIFY FINAL PLACEMENT PROVIDES 3FT CLEARANCE WITH PROPOSED BIKE PATH WITH PAVING CONTRACTOR.

HYDT REMOVE
HYD. VALVE
NOT STRAPPED

H (8.0)
SHOE - 3.1
PROPOSED CURB 4.6
FLANGE 4.9

CONTRACTOR TO VERIFY FINAL PLACEMENT PROVIDES 3FT CLEARANCE WITH PROPOSED BIKE PATH WITH PAVING CONTRACTOR.



Milwaukee Water Works
Department of Public Works

Water Engineering

WATER MAIN

S. WATER ST.
E. WASHINGTON ST.
E. NATIONAL AVE.

APPROVED: *Patrick W. Paul* DATE: 2-10-14
DESIGN ENGINEER

CHIEF DESIGN ENGINEER: *Mark J. Kelly*
DATE: 2-10-14

SPECIAL DEPUTY COMMISSIONER OF PUBLIC WORKS: *Mike Lewis*
DATE: 2-10-14

PROGRAM NO. 2013-010 CONTRACT NO. C.C. FILE NO. 120584
PROJECT NO. WT410130010 OFFICIAL NOTICE NO. 024-1-2014 DATE ADDED 9-25-12

SHEET NO. 1 OF 1 PLAN FILE NO. 2014014

CALL DIGGERS HOTLINE
1-800-242-8511
TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND BEFORE YOU DIG. WISCONSIN STATUTE 182.015 REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.

NO.	BY	REVISION	DATE