

GENERAL NOTES

THE CITY OF MILWAUKEE WILL FURNISH THE 36" DUCTILE IRON PIPE AND TRANSITION COUPLINGS FOR THIS PROJECT.

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

MILWAUKEE WATER WORKS WILL CHLORINATE THE MAIN.

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.

DEWATERING

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DEWATERING OF THE 36" MAIN TO FACILITATE SEAL INSTALLATION. ALL COSTS SHALL BE INCLUDED IN THE UNIT BID PRICE FOR PREPARE AND PERMANENTLY SEAL 36" INTERIOR JOINTS.

SITE ACCESS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL FEES REQUIRED BY MILWAUKEE COUNTY IN SECURING THE NECESSARY COUNTY RIGHT OF ENTRY PERMIT(S) FOR THIS WORK. CONTRACTOR MAY CALL MR. KEVIN HALEY OF THE COUNTY, AT 257-6242, FOR ESTIMATES ON THESE COSTS.

THE COUNTY HAS BEEN FORWARDED PRELIMINARY COPIES FOR THE PROPOSED WORK.

EAST SIDE

PROPOSED SITE ACCESS TO THE MILWAUKEE RIVER AND TO THE 36" WATER MAIN REPAIR SHALL BE THROUGH THE EXISTING ACCESS ROAD FROM THE COUNTY BIKE TRAIL. ENTRANCE TO THE COUNTY BIKE TRAIL IS AT E. PROVIDENCE AVE. ACCESS ROAD IS APPROXIMATELY 120 FT SOUTH OF THE SOUTH LINE OF E. HARTFORD AVE.

WEST SIDE

PROPOSED SITE ACCESS TO THE MILWAUKEE RIVER AND TO THE 36" WATER MAIN REPAIR SHALL BE THROUGH THE EXISTING ACCESS ROAD FROM E. CHAMBERS ST. (EXTD), UTILIZING THE MMSD ACCESS RD.

CONTRACTOR TO OBTAIN THE NECESSARY RIGHT OF ENTRY PERMIT(S) FROM MMSD TO ACCESS THE SITE. CONTACT DON NEHMER OF MMSD, AT DNEHMR@MMSD.COM.

INTERNAL JOINT REHABILITATION

PREPARING AND PERMANENTLY SEALING THE JOINTS OF THE 36" WATER MAIN WILL BE PERFORMED BY MEANS OF FURNISHING AND INSTALLING INTERNAL JOINT SEALING SYSTEMS FOR USE WITH POTABLE WATER AND NSF 61 CERTIFICATION, AS MANUFACTURED BY THE FOLLOWING (OR APPROVED EQUALS)

- * WEXO SEAL[®] MILLER PIPELINE CORP.,
- * IN-WEG[®] J. FLETCHER CREAMER & SON, INC.
- * HYDRATITE[®] HYDRATECH ENGINEERED PRODUCTS, LLC

THE INTERNAL JOINT SEALS SHALL HAVE A MINIMUM OVERALL WIDTH OF 10". THE RETAINING BANDS SHALL BE TYPE 304, STAINLESS STEEL. THE JOINT SEALS SHALL BE DESIGNED FOR AN INTERNAL OPERATING PRESSURE OF 150 PSI.

UPON REQUEST, THE CONTRACTOR SHALL SUBMIT TO THE SUPERINTENDENT OF THE MILWAUKEE WATER WORKS FOR APPROVAL, THREE COPIES OF ALL SHOP, ASSEMBLY AND OTHER DRAWINGS FOR THE INTERNAL JOINT SEALS.

THE APPROVAL OF THE DRAWINGS SUBMITTED BY THE CONTRACTOR WILL BE FOR GENERAL CONFORMITY TO THE PLANS AND SPECIFICATIONS, AND WILL NOT CONSTITUTE A BLANKET APPROVAL OF ALL DIMENSIONS, QUANTITIES OR DETAILS OF MATERIAL OR EQUIPMENT SHOWN BY THE DRAWINGS. NOR SHALL SUCH APPROVAL RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR ERRORS CONTAINED THEREIN.

TUBERCULATION NOTE

ALL WORK REQUIRED FOR THE REMOVAL OF TUBERCULATION, AS WARRANTED TO FACILITATE THE SEALING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR FURNISH AND INSTALL 36" INTERIOR JOINT SEALS. ALL MATERIAL SHALL BE REMOVED FROM THE WATER MAIN.

CONFINED SPACE REQUIREMENTS

ALL CONTRACTORS/SUBCONTRACTORS RESPONSIBLE FOR INSPECTING THE PIPE, CLEANING THE TUBERCULATION IN THE PIPE, AND INSTALLING THE JOINT SEALS, SHALL SUPPLY ALL NECESSARY CONFINED SPACE SAFETY APPARATUS AND EQUIPMENT AND SHALL CONFORM TO ALL APPROPRIATE FEDERAL OSHA REGULATIONS.

EROSION CONTROL

EROSION CONTROL FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH THE WISCONSIN CONSTRUCTION SITE BEST MANAGEMENT PRACTICE HANDBOOK (WIS D.N.R. PUBLICATION).

SEEDING AND REVEGETATION

SEEDING OF ANY DISTURBED AREAS ALONG THE MILWAUKEE RIVER BANK BELOW THE 100 YEAR FLOOD PLAIN SHALL BE A MIX APPROVED BY THE CITY OF MILWAUKEE AND WITHIN THE GUIDELINES OF THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES. SPECIFICATIONS OF THE SEEDING MIX CAN BE OBTAINED FROM THE CITY OF MILWAUKEE'S CONSTRUCTION SECTION.

TEMPORARY STORAGE OF EXCAVATED MATERIAL

IF NECESSARY, EXCAVATED MATERIAL SHALL BE STORED AT THE TOE OF THE SLOPE OF THE BANK.

STOCK PILING OF THE EXCAVATED MATERIAL SHALL BE PLACED FLAT. FILTER FENCE SHALL SURROUND THE STORED MATERIAL COMPLETELY. STRAW EROSION CONTROL MATTING SHALL COVER EXCAVATED MATERIAL IF IT WILL BE STORED AT THE RIVER BANK FOR A PERIOD EXCEEDING ONE WEEK.

MATTING MATERIAL SHALL BE GTS 200 OR AN EQUIVALENT APPROVED BY THE CITY OF MILWAUKEE.

THE ABOVE COMMENTS ARE SUBJECT TO CHANGES MADE BY THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES.

WISCONSIN DEPARTMENT OF NATURAL RESOURCES (DNR) PERMIT

A DETERMINATION WAS MADE BY THE WATER RESOURCES MANAGEMENT SECTION OF THE WISCONSIN DNR THAT THE PLANNED MAINTENANCE ACTIVITIES DO NOT REQUIRE PERMITS UNDER CHAPTER 30 OR 401 WATER QUALITY CERTIFICATION (WETLAND IMPACTS). THE FOLLOWING ARE ADDITIONAL COMMENTS FROM THE DNR.

- EAST BANK SHALL HAVE EROSION CONTROL FEATURES SURROUNDING THE EXCAVATION SITE AND STOCKPILED MATERIALS.
- WEST BANK EXCAVATION IS LOCATED BELOW THE 100 YEAR FLOODPLAIN AND COULD BE SUBJECT TO HIGH WATER EVENTS.
- CARE SHALL BE TAKEN TO MINIMIZE EROSION AND PREVENTION OF AFTER THE FACT PERMITTING DUE TO POOR SEQUENCING AND MATERIAL MANAGEMENT ONSITE.
- MATERIAL FROM THE EXCAVATION SITE TO BE STOCKPILED UP AND OUT OF THE 100 YEAR FLOODPLAIN ON THE DOWNSLOPE SIDE UTILIZING EROSION CONTROL.

FOR ADDITIONAL PLAN NOTES SEE E. AUER AVE., PLAN FILE NO. 2012035.

SCHEDULE

ALL WORK ON THIS PROJECT SHALL BE COMPLETED BY NOVEMBER 9, 2012

TIME FOR COMPLETION: 30 TOTAL WORKING DAYS.

PRE-BID MEETING

A MANDATORY PRE-BID MEETING WILL BE HELD ON, AUGUST 10, 2012 AT 10:00 AM IN THE MWW CONFERENCE ROOM 412 OF THE ZEDLER MUNICIPAL BUILDING.

A SITE VISIT WILL BE ARRANGED IMMEDIATELY FOLLOWING THE PRE-BID MEETING.

PRE-CON MEETING

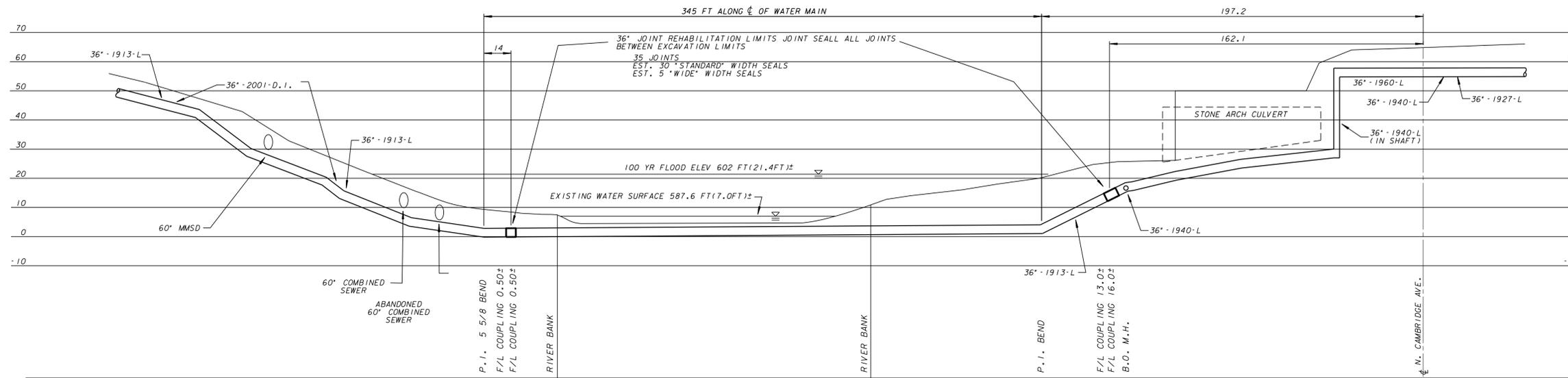
A PRE-CONSTRUCTION MEETING WILL BE SCHEDULED WITH THE CONTRACTOR FOLLOWING AWARD OF CONTRACT.



CALL DIGGERS HOTLINE
1-800-242-8511
TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND BEFORE YOU DIG. WISCONSIN STATUTE 192.0715 REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE

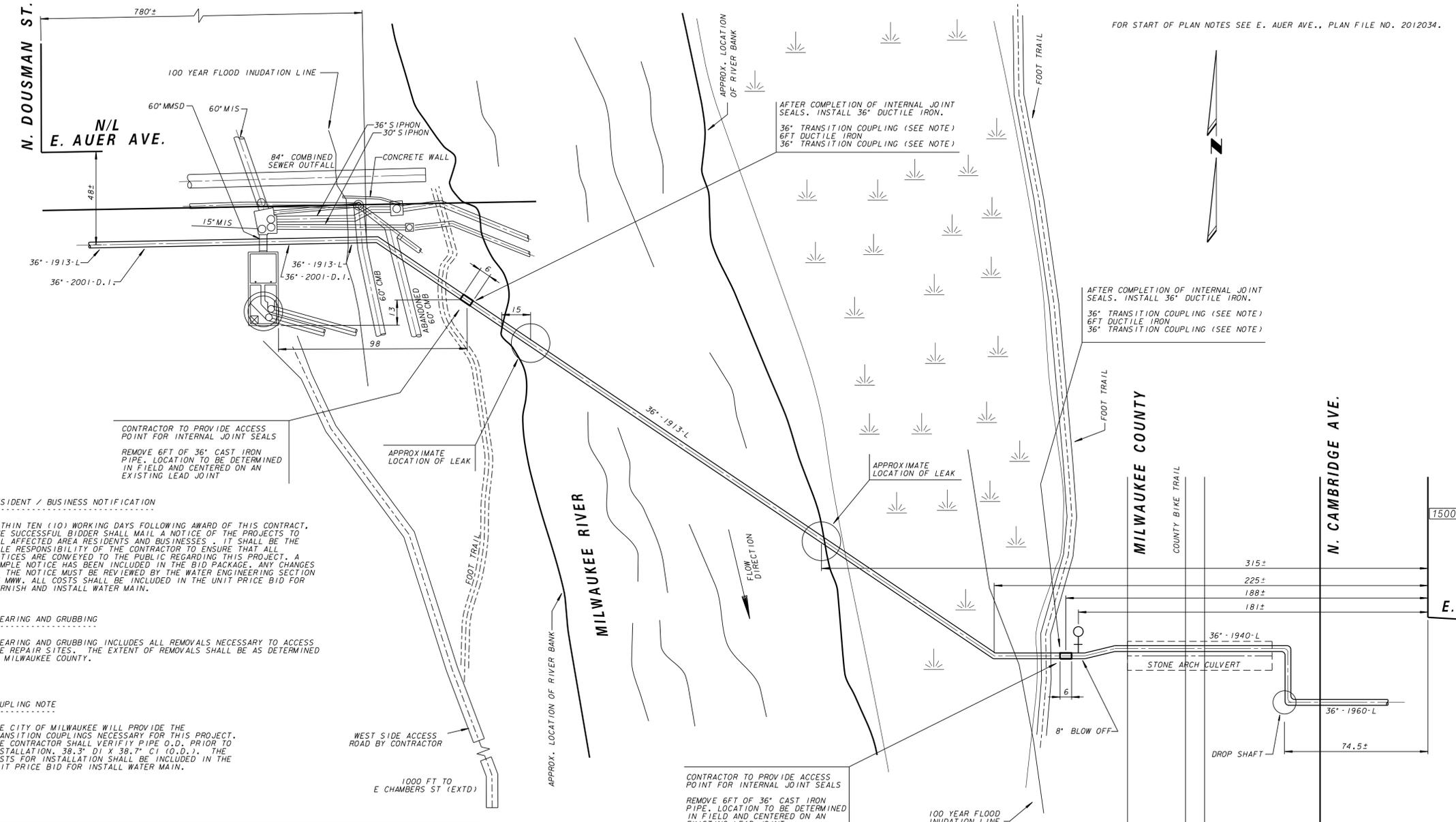
NO.	BY	REVISION	DATE

Milwaukee Water Works Department of Public Works		Water Engineering Department of Public Works	
WATER MAIN SITE PLAN			
IN E. AUER AV./E. HAMPSHIRE ST. EXTD. THE MILWAUKEE RIVER			
IN AT		APPROVED DATE	
SCALE HORIZONTAL 1" = N.A. VERTICAL 1" = 20' 14 SEC. NO. 281 280 279 315	PLAN DATE 12-1-11	DRAWN BY A.P.J.	CHECKED BY K.S.R.
SURVEY BY NA	PROGRAM NO. 2011-782	CONTRACT NO. O.M. & PROJECT NO. 12-112-1	C.C. FILE NO. 111025
WORK ORDER WT410110782	DATE ADOPTED 12-20-11	SHEET NO. 1 OF 2	PLAN FILE NO. 2012034



ESTIMATE OF QUANTITIES

- FOR BIDDING
- PREPARE AND PERMANENTLY SEAL INTERIOR JOINTS
 - 35 - 36" WATER MAIN JOINTS
 - INSTALL
 - 12 FT. - 36" WATER MAIN (D.I.)
 - CLEARING AND GRUBBING
 - LUMP SUM
 - FURNISH, INSTALL, AND MAINTAIN EROSION CONTROL
 - LUMP SUM
 - 75 CU. YDS. EXCESS EXCAVATED MATERIAL
 - FOLLOWING IS A LIST OF THE FITTINGS SHOWN ON THIS CONSTRUCTION PLAN THAT WILL BE PROVIDED BY THE CITY.
 - 4 - TRANSITION COUPLINGS (38.3" DI x 38.7" CI)
 - ABANDONMENT OF WATER MAINS, VALVES, AND HYDRANT BRANCHES
 - 12' - 36" 1913-L WATER MAIN



MILWAUKEE COUNTY

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL FEES REQUIRED BY MILWAUKEE COUNTY IN SECURING THE NECESSARY COUNTY RIGHT OF ENTRY PERMIT(S) FOR THIS WORK. CONTRACTOR MAY CALL MR. KEVIN HALEY OF THE COUNTY, AT 257-6242, FOR ESTIMATES ON THESE COSTS.

THE COUNTY HAS BEEN FORWARDED PRELIMINARY COPIES FOR THE PROPOSED WORK. ALL PERMIT REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

THE PERMIT IS ANTICIPATED TO INCLUDE (BUT NOT LIMITED TO) THE FOLLOWING ITEMS:

EAST SIDE

THE OAK LEAF TRAIL IS AN ASPHALT PAVED MULTI-USE PATH THE CONTRACTOR SHALL MAINTAIN ACCESS AT ALL TIMES TO THE TRAIL. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO THE TRAIL. THE TRAIL SHALL NOT BE USED AS A ROAD FOR VEHICLES. THE CONTRACTOR MAY CROSS THE TRAIL AT E. PROVIDENCE AVE. THE CONTRACTOR IS TO USE THE "UNIMPROVED ROAD" TO THE WEST OF THE ASPHALT TRAIL.

THE COUNTY WILL REQUIRE THE CONTRACTOR TO USE THE GRAVEL ACCESS ROAD THAT IS 1550 FT S/O E PROVIDENCE AVE TO ACCESS THE GRAVEL FOOT TRAIL LOCATED AT RIVER ELEVATION. THE WORKSITE IS APPROXIMATELY 550 FT S/O THIS ROAD.

THE COUNTY WILL REQUIRE THE CONTRACTOR TO REMOVE THE GRAVEL ACCESS ROAD WHEN THE WATER WORK HAS BEEN COMPLETED AND RESTORE TO NATIVE SITE CONDITIONS. ALL COSTS TO BE INCLUDED IN THE LUMP SUM BID ITEM FOR CLEARING AND GRUBBING.

CLEARING AND GRUBBING MAY BE REQUIRED. NO REMOVALS WITHOUT CONSENT OF MILWAUKEE COUNTY. TAKE ALL NECESSARY MEASURES TO PROTECT TREES FROM DAMAGE.

THE GRAVEL FOOT TRAIL AT RIVER ELEVATION IS A MARKED COUNTY TRAIL PUBLIC ACCESS WILL NEED TO BE MAINTAINED TO THE TRAIL.

WEST SIDE

THE CONTRACTOR IS REQUIRED TO OBTAIN ANY AND ALL NECESSARY RIGHT OF ENTRY PERMIT(S) FROM MMSD TO ACCESS THE SITE FROM E. CHAMBERS ST. EXT'D. CONTACT DON NEHMER OF MMSD AT DNEHMER@MMSD.COM.

THE WORKSITE IS APPROXIMATELY 1000 FT N/O E. CHAMBERS EXT'D.

CLEARING AND GRUBBING MAY BE REQUIRED. NO REMOVALS WITHOUT CONSENT OF MILWAUKEE COUNTY. TAKE ALL NECESSARY MEASURES TO PROTECT TREES FROM DAMAGE.

MAINTAIN PUBLIC ACCESS TO THE GRAVEL FOOT TRAIL AT RIVER ELEVATION.



CONTRACTOR TO PROVIDE ACCESS POINT FOR INTERNAL JOINT SEALS

REMOVE 6 FT OF 36" CAST IRON PIPE. LOCATION TO BE DETERMINED IN FIELD AND CENTERED ON AN EXISTING LEAD JOINT

RESIDENT / BUSINESS NOTIFICATION

WITHIN TEN (10) WORKING DAYS FOLLOWING AWARD OF THIS CONTRACT, THE SUCCESSFUL BIDDER SHALL MAIL A NOTICE OF THE PROJECTS 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 HAS BEEN INCLUDED IN THE BID PACKAGE. ANY CHANGES TO THE NOTICE MUST BE REVIEWED BY THE WATER ENGINEERING SECTION OF MWW. ALL COSTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR FURNISH AND INSTALL WATER MAIN.

CLEARING AND GRUBBING

CLEARING AND GRUBBING INCLUDES ALL REMOVALS NECESSARY TO ACCESS THE REPAIR SITES. THE EXTENT OF REMOVALS SHALL BE AS DETERMINED BY MILWAUKEE COUNTY.

COUPLING NOTE

THE CITY OF MILWAUKEE WILL PROVIDE THE TRANSITION COUPLINGS NECESSARY FOR THIS PROJECT. THE CONTRACTOR SHALL VERIFY PIPE O.D. PRIOR TO INSTALLATION. 38.3" DI x 38.7" CI (O.D.). THE COSTS FOR INSTALLATION SHALL BE INCLUDED IN THE UNIT PRICE BID FOR INSTALL WATER MAIN.

CONTRACTOR TO PROVIDE ACCESS POINT FOR INTERNAL JOINT SEALS

REMOVE 6 FT OF 36" CAST IRON PIPE. LOCATION TO BE DETERMINED IN FIELD AND CENTERED ON AN EXISTING LEAD JOINT

PLAN LINE & UTILITY LEGEND

GAS	○	SANITARY SEWER	— SAN	STREET LIGHTING	—
ELECTRIC	□	STORM SEWER	— STO	CITY UNDERGROUND CONDUIT	—
TELEPHONE	—	COMBINED SEWER	— CMB	PROPOSED CURB / PVMT	— CUC
CABLE TELEVISION	—	WATER MAIN	— W	PAVING LIMITS	— X X X X
FIBER OPTICS	—	WATER SERVICE	— WS	STRUCTURE / BUILDING	—
PROPOSED UTILITY	—	PRESSURE DISTRICT	— PD	FENCE	—

POWER POLES ○ CONCRETE □ ALUMINUM ⊙ WOOD WATER MAIN VALVES + GATE ⊕ BUTTERFLY ○ SERVICE

UTILITIES ⊕ TRAFFIC SIGNAL ⊕ TRAFFIC CONTROL BOX ⊕ GAS VALVE HYDRANTS ○ 1 NOZZLE ○ 3 NOZZLE

CALL DIGGERS HOTLINE
1-800-242-8511

TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND BEFORE YOU DIG. WISCONSIN STATUTE 182.0715 REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE

Milwaukee Water Works
Department of Public Works

Water Engineering

INTERIOR JOINT SEAL

IN E. AUER AV./E. HAMPSHIRE ST. EXTD.
AT MILWAUKEE RIVER CROSSING
(36" MAIN BREAK)

SCALE HORIZONTAL 1" = 30'	DATE
VERTICAL 1" = 20'	7-18-12
IN SEC. NO. 281 280	7-18-12
PLAN DATE 12-1-11	7-18-12
DRAWN BY A.P.J.	7-18-12
CHECKED BY K.S.R.	7-18-12
SURVEY BY NA	7-18-12

PROGRAM NO. 2011-782 CONTRACT NO. C.C. FILE NO. 111025
WORK ORDER WT410110782 O.N. & PROJECT NO. 12-112-1 DATE ADOPTED 12-20-11

SHEET NO. 2 OF 2 PLAN FILE NO. 2012035