

**ESTIMATE OF QUANTITIES**

FOR BIDDING

- FURNISH PIPE AND INSTALL  
(DUCTILE IRON PUSH-ON RUBBER GASKET JOINT)  
379 FT. - 8" WATER MAIN  
7 FT. - 6" HYDRANT BRANCH
- INSTALL  
1 - HYDRANT
- REMOVE  
1 - HYDRANT / MINOR
- SERVICES  
12 - CONNECT ORIGINAL SERVICE (C.O.S.-SHORT)

- PERMANENT PAVEMENT  
190 SQ. YDS. - 4" ASPHALT  
10 SQ. YDS. - 3" ASPHALT  
10 SQ. YDS. - 8" CONCRETE BASE

- FURNISH AND INSTALL DOWEL BARS  
15 BARS

- BARRICADES AND TRAFFIC CONTROL

- LUMP SUM

- SAWCUTTING

- 415 LIN. FT. - IN ASPHALT  
30 LIN. FT. - IN ASPHALTIC ON CONCRETE BASE (FULL DEPTH)

- FINISHING OF ROADWAY

- LUMP SUM

- FURNISH, INSTALL, AND MAINTAIN EROSION CONTROL

- LUMP SUM

- 290 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 - AT 8x6
- 1 - T 8x8
- 2 - BB-45
- 1 - V8
- 1 - V6
- 2 - VB-DD
- 1 - H (6.5)
- 1 - SL8

- 12 - 1" CORPORATION STOP

- PAVEMENT TYPE

EXISTING PAVEMENT IN W. HERBERT AVE. IS 2.5" ASPHALT EXCEPT FOR E. 17'

FOR E. 17' EXISTING PAVEMENT IN W. HERBERT AVE. IS 2.5" ASPHALT ON 8" CONCRETE BASE.

EXISTING PAVEMENT IN N. STRATHMORE AVE. IS 2.5" ASPHALT

EXISTING PAVEMENT IN N 69TH ST. IS 3" ASPHALT ON 8" CONCRETE BASE.

ABANDONMENT OF WATER MAINS, VALVES, AND HYDRANT BRANCHES

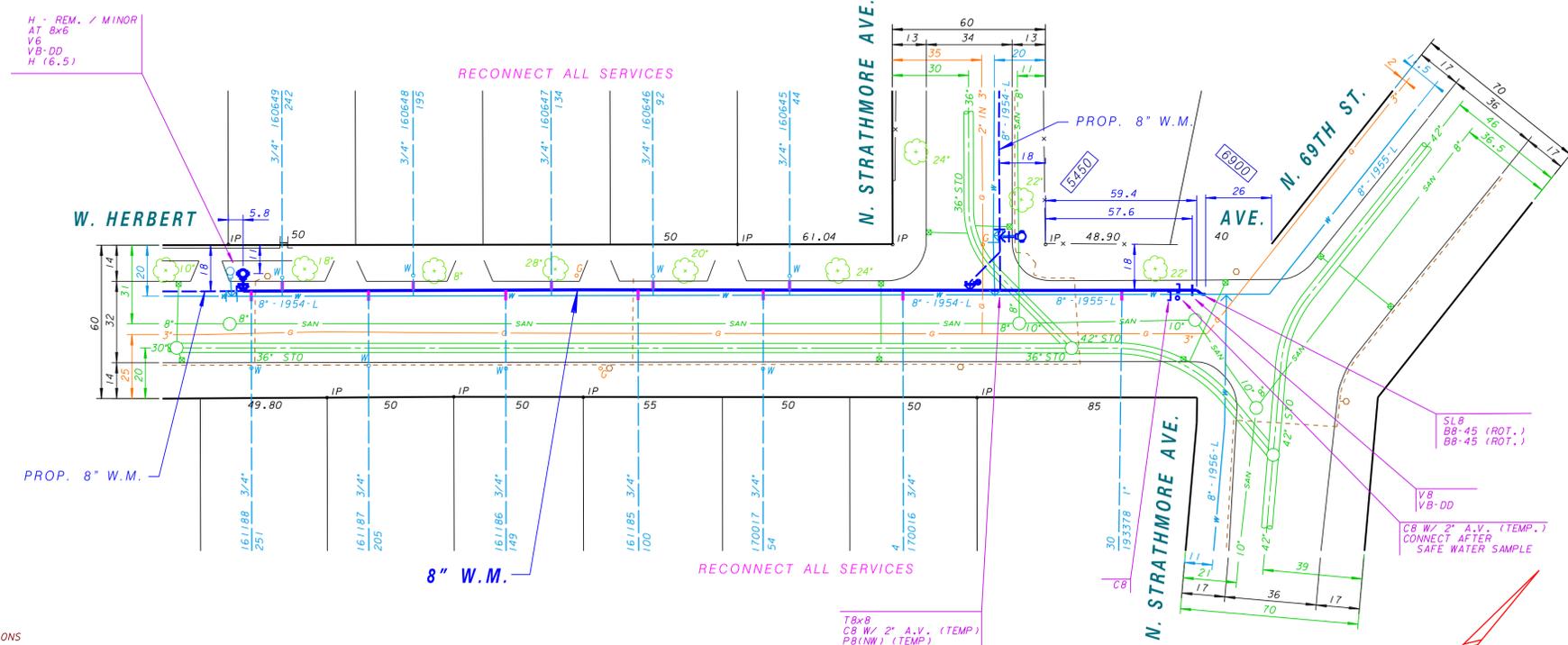
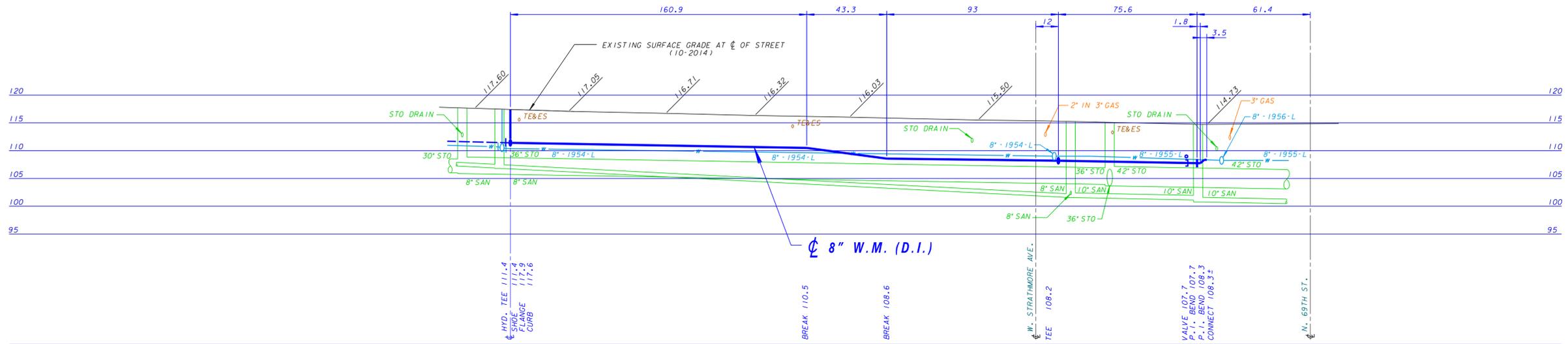
- 295' - 8" - 1954-L WATER MAIN
- 83' - 8" - 1955-L WATER MAIN
- 1 - HYDRANT

- BENCHMARKS

- HYDRANT - N/E COR @ STRATHMORE - ELEV\* 117.88
- HYDRANT - N/S MID-BLOCK EAST - ELEV\* 120.45
- HYDRANT - N/S MID-BLOCK WEST - ELEV\* 122.64
- HYDRANT - N/E COR TALLMADGE - ELEV\* 125.64

**PLAN LINE & UTILITY LEGEND**

GAS	g	SANITARY SEWER	san	STREET LIGHTING	---
ELECTRIC	e	STORM SEWER	sto	CITY UNDERGROUND CONDUIT	cuc
TELEPHONE	t	COMBINED SEWER	cmb	PROPOSED CURB / PVMT	---
CABLE TELEVISION	tv	WATER MAIN	w	PAVING LIMITS	x x x x
FIBER OPTICS	fo	WATER SERVICE	ws	STRUCTURE / BUILDING	---
PROPOSED UTILITY	---	PRESSURE DISTRICT	---	FENCE	---
POWER POLES	o	CONCRETE	o	ALUMINUM	o
		WOOD	o	WATER MAIN VALVES	+
		GATE	+	BUTTERFLY	+
		W-SERVICE	+		
UTILITIES	o	TRAFFIC SIGNAL	o	TRAFFIC CONTROL BOX	o
		GAS VALVE	o	HYDRANTS	o
		1-NOZZLE	o	3-NOZZLE	o



**TRAFFIC PROVISIONS**

USE NO PARKING ANYTIME ON WEST SIDE OF W. HERBERT AVENUE.  
USE NO PARKING 7AM TO 5PM ON EAST SIDE OF W. HERBERT AVENUE.  
MAINTAIN TWO WAY TRAFFIC.

DO NOT IMPEDE TRAFFIC ON N. STRATHMORE AVENUE/N. 69TH STREET AND W. TALLMADGE PLACE.  
PAVEMENT MARKINGS MUST BE RETURNED TO ORIGINAL MATERIAL AND CONDITION.

PROVIDE SEVEN (7) DAYS ADVANCED NOTICE TO 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 414-286-5015.

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.

**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.  
CONTRACTOR SHALL FIELD LOCATE USING A PIPE LOCATOR, SIMILAR TO A RIGID PIPE LOCATOR, ALL BRANCHES AND SERVICES PRIOR TO TAPPING NEW WATER MAIN. ALL COSTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONNECT ORIGINAL SERVICE.

**ABANDONMENT OF VALVE BOXES**

IN ACCORDANCE WITH SECTION 5.14.5 OF THE CITY OF MILWAUKEE "WATER MAIN INSTALLATION SPECIFICATIONS", WHEN VALVES OR CURB STOPS ARE TO BE ABANDONED, THE CONTRACTOR SHALL REMOVE ONLY THE TOP SECTION OF THE VALVE OR SERVICE BOX AND BACKFILL THE REMAINING HOLE WITH GRAVEL. ALL VALVE AND CURB STOP BOXES ON MAINS ABANDONED AS PART OF THE CONTRACT SHALL BE ABANDONED IN THIS MANNER. THE ABANDONMENT SHALL INCLUDE ALL NECESSARY PAVEMENT OR SOD REPLACEMENT.

**VALVE NOTE**

CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL NEW WATER MAIN, HYDRANT AND BRANCH VALVES ARE IN THE OPEN POSITIONS FOLLOWING THE FINAL WET CONNECTION. ALL CITY OF MILWAUKEE VALVES ARE OPEN RIGHT "CLOCKWISE".

CALL DIGGERS HOTLINE  
1-800-242-8511  
TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND BEFORE YOU DIG. WISCONSIN STATUTE 180.0715 REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE

**BLOOM COMPANIES, LLC**  
Infrastructure Innovation and Integrity  
10561 W. Research Drive • Milwaukee, WI 53226  
Phone: (414) 771-3390

TAM	M.W.W. REVIEW	1-26-15
N.O. BY	REVISION	DATE



**Milwaukee Water Works** Water Engineering  
Department of Public Works

**WATER MAIN**  
**W. HERBERT AVENUE**  
N. STRATHMORE AVE.  
W. TALLMADGE PL.

IN FROM TO

SCALE: HORIZONTAL 1" = 30', VERTICAL 1" = 10'

14 SEC. NO. 188

PLAN DATE 10-28-14

DRAWN BY C.M.B.

CHECKED BY J.D.S.

SURVEY BY EMCS, INC.

PROGRAM NO. 2015-664 CONTRACT NO. OFFICIAL NOTICE NO. 35-1-2015 C.C. FILE NO. 141515

PROJECT NO. WT410150664 DATE ADOPTE 2-10-15

SHEET NO. 1 OF 2 PLAN FILE NO. 2015014