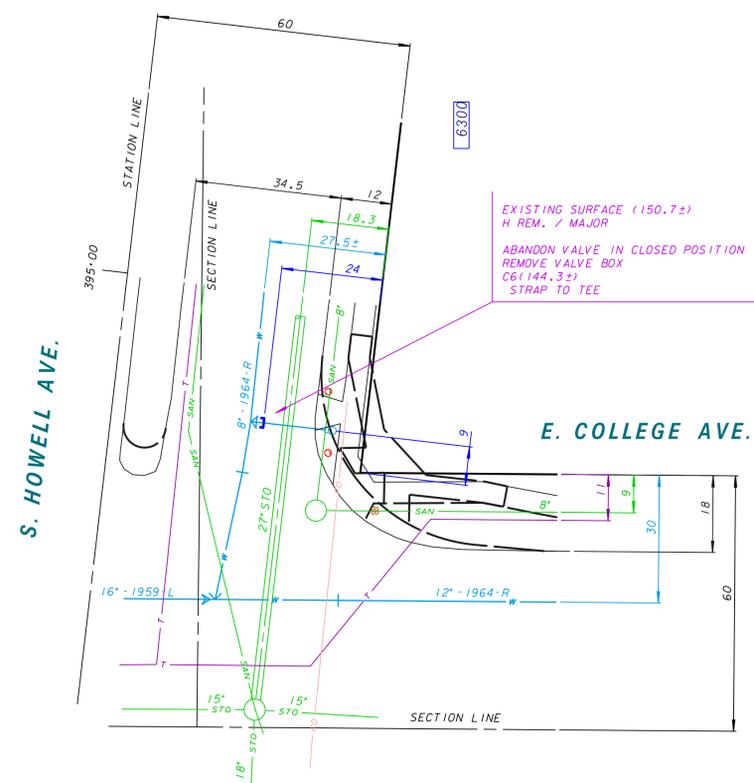
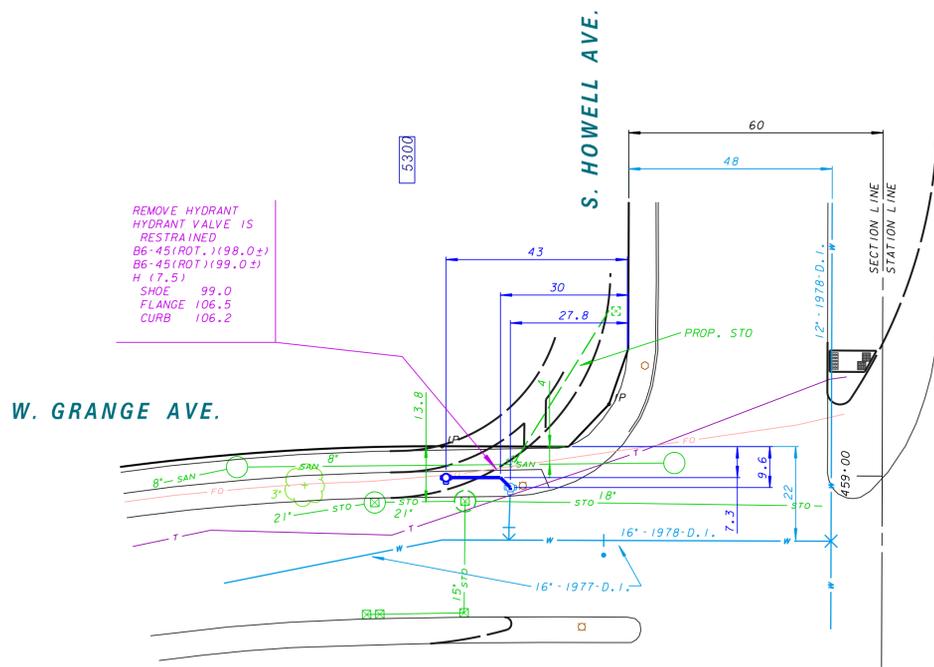


ESTIMATE OF QUANTITIES

FOR BIDDING

- FURNISH PIPE AND INSTALL
 (DUCTILE IRON PUSH-ON RUBBER GASKET JOINT)
 17 FT. - 6" HYDRANT BRANCH
- INSTALL
 1 - HYDRANT
- REMOVE
 1 - HYDRANT / MAJOR
- PERMANENT PAVEMENT
 6 SQ. YDS. - 3" ASPHALTIC CONCRETE
 6 SQ. YDS. - 9" CONCRETE BASE
- FURNISH AND INSTALL DOWEL BARS
 16 BARS
- CURB AND GUTTER
 12 LIN. FT. - CONCRETE
- WALK
 30 SQ. FT. - CONCRETE
- BARRICADES AND TRAFFIC CONTROL
 LUMP SUM
- SAWCUTTING
 30 LIN. FT. - IN ASPHALT ON CONCRETE BASE (FULL DEPTH)
- AGGREGATE SLURRY BACKFILL
 5 CU. YDS.
- FINISHING OF ROADWAY
 LUMP SUM
- FURNISH, INSTALL, AND MAINTAIN EROSION CONTROL
 LUMP SUM
- 35 CU. YDS. EXCESS EXCAVATED MATERIAL



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

- 2 - B6-45
- 1 - C6
- 1 - H (7.5)

PAVEMENT TYPE

S. HOWELL AVE. IS ON 2014 STATE PAVING PROGRAM
 STATE PROJECT I.D. 2060-15-71
 CURRENT LET DATE APRIL 8, 2014.

EXISTING PAVEMENT IN

INTERSECTION - S. HOWELL AVE. & E. COLLEGE AVE.
 3" ASPHALTIC CONCRETE (1992) ON 9" CONCRETE (1964)

W. GRANGE AVE. - S. HOWELL AVE. TO S. 3RD ST.
 3" ASPHALTIC CONCRETE (1992) ON 9" CONCRETE (1978)

ABANDONMENT OF WATER MAINS, VALVES, AND HYDRANTS

- 2 - HYDRANT

BENCHMARKS

- STANDARD BENCH MARK 58-03 1/4 SECTION 641
 LOC. # S. HOWELL AV. AND W. EDGERTON AV.
 DESC. # IN CENTER STRIP SOUTH OF W. EDGERTON AV., 13.6' EAST OF WEST CURB AND 33.3' SOUTH OF NORTH END OF MEDIAN CURB (60' SOUTH OF 1/4 SECTION LINE).
 ELEV. # 93.584
- STANDARD BENCH MARK 63-11 1/4 SECTIONS 672, 673
 LOC. # S. HOWELL AV. TUNNEL, SOUTH OF W. GRANGE AV., (NORTH END)
 DESC. # NORTH END, TOP OF NORTHEAST CORNER PARAPET WALL, STANDARD PLATE.
 ELEV. # 117.950
- STANDARD BENCH MARK 68-04 1/4 SECTIONS 686, 687
 LOC. # W. COLLEGE AV. AND S. HOWELL AV.
 DESC. # IN MEDIAN ISLAND ON S. HOWELL AV., NORTH OF W. COLLEGE AV., 39.7' NORTH OF ISLAND TIP AND 3.2' EAST OF ISLAND CURB.
 ELEV. # 151.209

PLAN LINE & UTILITY LEGEND

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

FOR START OF PLAN NOTES SEE , S. WATER ST., PLAN FILE NO. 2014014.

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.

TRAFFIC SIGNAL NOTE

IF THERE ARE ANY IMPACTS TO CITY OF MILWAUKEE TRAFFIC SIGNAL EQUIPMENT, THE CONTRACTOR SHALL CONTACT SIGNAL ENGINEERING AT 414-286-5162 FOR NECESSARY ALTERATIONS. A FIVE WORKING DAY NOTICE IS REQUIRED. REPORT DAMAGE TO THE SIGNAL SHOP AT 414-286-3687.

STATE PERMIT

S. HOWELL AVE. IS STATE HIGHWAY "38", WHICH IS MAINTAINED BY THE STATE OF WISCONSIN. A PERMIT TO EXCAVATE FROM THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION HAS BEEN OBTAINED BY THE CITY OF MILWAUKEE. WISDOT UTILITY PERMIT NO. 40U-307-14 IS INCLUDED IN THE CONTRACT DOCUMENTS.

THE CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS, CONDITION OF ISSUANCE, AND ANY SPECIAL ADVISORY AS STIPULATED IN THE PERMIT AS A PART OF THIS CONTRACT. ALL COSTS TO BE INCLUDED IN THE UNIT PRICE BID FOR FURNISH AND INSTALL WATER MAIN.

THE CONTRACTOR SHALL CONTACT THE TRANSPORTATION DISTRICT OFFICE AT 1-800-242-8511 NOT LESS THAN THREE (3) WORKING DAYS PRIOR TO THE START OF THE PERMITTED WORK TO ARRANGE FOR A DISTRICT REPRESENTATIVE TO LOCATE AND MARK THE EXISTING TRAFFIC SIGNAL AND/OR HIGHWAY LIGHTING LINES. NO WORK UNDER THIS PERMIT SHALL BE ACCOMPLISHED PRIOR TO THE DISTRICT REPRESENTATIVE'S ARRIVAL.



Milwaukee Water Works
 Water Engineering
 Department of Public Works

WATER MAIN
 S. HOWELL AVE.
 W. GRANGE AVE.
 W. COLLEGE AVE.

SCALE 1"=20'
 IN FROM TO
 PLAN DATE 6-13-13
 DRAWN BY A.P.J.
 CHECKED BY K.S.R.
 SURVEY BY CONST. SECTION
 APPROVED: Patrick W. Pauly
 DATE: 2-10-14
 SPECIAL DEPUTY COMMISSIONER OF PUBLIC WORKS

PROGRAM NO. 2013-015 CONTRACT NO. C.C. FILE NO. 130363
 PROJECT NO. WT410130015 OFFICIAL NOTICE NO. 024-1-2014 DATE ADOPTED 7-23-13

SHEET NO. 1 OF 1 PLAN FILE NO. 2014015

NO.	BY	REVISION	DATE