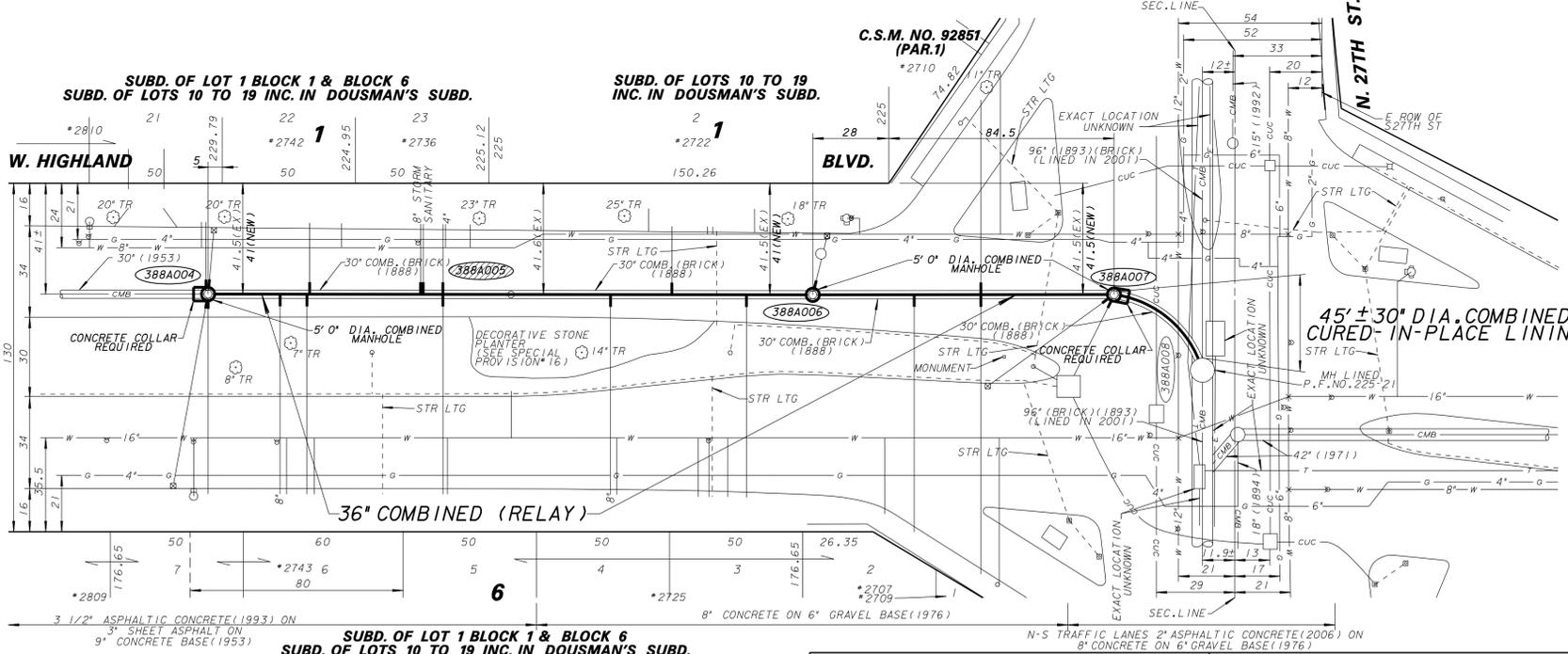


SPECIAL PROVISIONS FOR PLAN FILE NOS. 231-42 ONLY

- STANDARD SPECIAL PROVISIONS, PLAN FILE NUMBER 52-4-51, DATED AUGUST 22, 2011 (OR LATEST REVISION THERE OF), ARE PART OF THIS CONTRACT.
- 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. THE CONSTRUCTION ENGINEER SHALL CONTACT MR. PATRICK COE (MMSD) AT 225-2219 TO CONFIRM THAT THE APPROVALS HAVE BEEN GRANTED.
- COMMON COUNCIL AUTHORITY IS ANTICIPATED ON FEBRUARY 1, 2013. THE CONTRACT SHALL NOT BE AWARDED UNTIL COMMON COUNCIL AUTHORITY IS OBTAINED. WORK ON THIS PROJECT SHALL BE COMPLETED BY JUNE 1, 2013. THE WORK SHALL BE CONTINUOUS AND THE TOTAL NUMBER OF ALLOWABLE WORKDAYS SHALL BE 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.
- ALL CONNECTIONS FOR BUILDING SEWERS OF RECORD HAVE BEEN SHOWN ON THE PLAN. ALL ACTIVE BUILDING SEWERS SHALL BE RECONNECTED TO THE NEW SEWER. THE CONTRACTOR SHALL FIELD VERIFY ALL ACTIVE LATERALS AND SHALL ONLY RECONNECT LATERALS WHICH ARE SHOWN TO BE ACTIVE.
- THE CONTRACTOR SHALL PROTECT AND SUPPORT ALL EXISTING UTILITIES, FACILITIES, CONDUITS, AND STRUCTURES WITHIN THE PROJECT LIMITS WHILE RELAYING THE RESPECTIVE DIAMETER COMBINED SEWERS. THE COST OF SUPPORTING, SHORING AND BRACING, PROTECTING, RAT HOLE OR TUNNELING UNDER THE EXISTING MANHOLES AND UTILITIES NECESSARY TO RELAY PROPOSED SEWERS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE 36-INCH DIAMETER COMBINED SEWER, CLASS "C" BEDDING.
- THE CITY OF MILWAUKEE HAS STREET LIGHTING FACILITIES AND PIPE 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 FOR EACH STREET LIGHTING POLE WHERE ALTERATIONS ARE NEEDED; HOWEVER, IF ANY ADDITIONAL WORK IS REQUIRED FOR THE ALTERATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST.
THE SUCCESSFUL CONTRACTOR MUST DEPOSIT THE NECESSARY SERVICE FEE PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE RECEIPT TO THE ENGINEER PRIOR TO STARTING ANY REQUIRED STREET LIGHTING AND TRAFFIC SIGNAL ALTERATION WORK. THE CONTRACTOR SHALL CONTACT MR. ENG-KIE LEE AT (414) 286-2174 FOR ALL NECESSARY STREET LIGHTING ALTERATIONS. THE CONTRACTOR SHALL CONTACT MR. JOSEPH BONDOWSKI AT (414) 286-5162 FOR ALL 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) 286-3481.
- THE CONTRACTOR SHALL CONTACT MS. GERI SCHMIDT 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. SCHMIDT AT 286-3632 WITH QUESTIONS REGARDING THE TRAFFIC CONTROL PLAN SUBMITTAL.
- 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 MR. JAMES BROWN OR MS. GERI SCHMIDT OF THE TRAFFIC OPERATIONS SECTION, MUNICIPAL BUILDING, ROOM 920. CONTACT MR. JAMES BROWN AT 286-3276, OR MS. GERI SCHMIDT AT 286-3632 WITH QUESTIONS REGARDING THE TRAFFIC CONTROL PLAN SUBMITTAL.
- ALL SIGNS USED FOR TRAFFIC CONTROL SHALL MEET THE NEW NATIONAL REQUIREMENTS FOR SIGN RETROREFLECTIVITY STANDARDS.
- THE CONTRACTOR SHALL MAINTAIN (1) 11-FOOT TRAFFIC LANE IN EACH DIRECTION IN WEST HIGHLAND BOULEVARD AND NORTH 27TH STREET AT ALL TIMES.
- WEST HIGHLAND BOULEVARD AND NORTH 27TH STREET ARE MILWAUKEE COUNTY TRANSIT SYSTEM (MCTS) BUS ROUTES.
- PAVEMENT RESTORATION IN WEST HIGHLAND BOULEVARD SHALL CONSIST OF REMOVING AND REPLACING THE EXISTING PAVEMENT TO A WIDTH OF THE OUTSIDE DIAMETER OF THE PIPE, PLUS 4- FEET, CENTERED ON THE PROPOSED PIPE.

- IF REQUIRED, 3-INCH BITUMINOUS TEMPORARY TRENCH SURFACING SHALL BE PLACED AS DIRECTED BY THE CONSTRUCTION ENGINEER AND SHALL BE PAID FOR AT THE UNIT PRICE BID. PAYMENT FOR THE 3-INCH BITUMINOUS TEMPORARY SURFACE SHALL BE LIMITED TO THE WIDTH OF OUTSIDE DIAMETER OF THE PIPE PLUS 4- FEET, CENTERED ON THE PROPOSED PIPE.
- THE CONTRACTOR SHALL PROVIDE THE CITY WITH TWO (2) COPIES OF A POST INSTALLATION DVD EXAMINATION AND REPORT OF THE SEWER. THESE RECORDED EXAMS WILL BECOME THE PROPERTY OF THE CITY OF MILWAUKEE. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE SEWER EXAMS BY CCTV-POST CONSTRUCTION.
- AFTER THE AWARD OF THIS CONTRACT, THE CONTRACTOR SHALL MAIL A NOTICE OF THE PROJECT TO ALL AFFECTED AREA RESIDENTS AND BUSINESSES REGARDING THE PROJECT WITHIN 10 BUSINESS WORKING DAYS. 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 WILL BE INCLUDED IN THE CONTRACT DOCUMENT. THE ENTIRE COST OF THIS SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE 36-INCH DIAMETER COMBINED SEWER, CLASS "C" BEDDING.
- NO EQUIPMENT AND/OR MATERIALS SHALL BE STORED OR PLACED IN THE MEDIAN ISLANDS OF WEST HIGHLAND BOULEVARD AT ANY TIME. THE CONTRACTOR SHALL PROTECT THE DECORATIVE STONE PLANTER WHILE RELAYING THE 36-INCH DIAMETER COMBINED SEWER. ALL COSTS ASSOCIATED WITH THE PROTECTION OF THE PLANTER SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE 36-INCH DIAMETER COMBINED SEWER, CLASS "C" BEDDING.
- DURING CONSTRUCTION OF MANHOLE 388A007, THE CONTRACTOR SHALL CONNECT THE MANHOLE TO THE EXISTING 30" COMBINED SEWER USING A CONCRETE COLLAR. THE CONCRETE COLLAR SHALL BE A MINIMUM OF 12 INCHES THICK AND 24 INCHES LONG AT THE POINT OF CONNECTION TO THE MANHOLE. ALL WORK ASSOCIATED WITH THE CONSTRUCTION OF THE CONCRETE COLLAR, INCLUDING ALL LABOR AND MATERIALS, SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE 5 FOOT DIAMETER COMBINED MANHOLES.
- IN ADDITION TO THE ALLOWABLE 1-1/2 INCH GRADED AGGREGATE, AS PER TABLE 39 OF SECTION 8.43.7 OF THE STANDARD SPECIFICATION, 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 SPECIFICATION, SUBSECTION 305.2.2.1 GENERAL.
- ALL RELAY WORK IN WEST HIGHLAND BOULEVARD SHALL BE COMPLETED PRIOR TO THE START OF THE 30-INCH DIAMETER LINING IN WEST HIGHLAND BOULEVARD.
- THE CONTRACTOR WILL BE REQUIRED TO HANDLE ALL FLOW DURING THE INSTALLATION OF THE CURED-IN-PLACE LINING. THE COST OF BYPASSING AND PUMPING FLOW AROUND THE PROJECT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE 30-INCH DIAMETER COMBINED CURED-IN-PLACE LINING.
- THE CONTRACTOR SHALL SUBMIT INDEPENDENT THIRD PARTY TEST RESULTS, SHOWING THE SHORT TERM FLEXURAL MODULUS OF THE PRODUCT TO BE USED, TO THE CONSTRUCTION ENGINEER. THE COST OF TESTING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE 30-INCH DIAMETER COMBINED SEWER CURED-IN-PLACE LINING. CURED-IN-PLACE LINER THICKNESS SHALL CONFORM TO THE MINIMUM VALUES LISTED IN THE FOLLOWING TABLE FOR EACH FLEXURAL MODULUS (ASTM D790):
30" DIAMETER COMBINED
250,000 PSI OR GREATER
13.5 MM OR
400,000 PSI OR GREATER
12.0 MM
- THE CONTRACTOR MAY USE EXISTING MANHOLES AS WORKSHAFTS. IF REQUIRED, THE CONTRACTOR SHALL REMOVE THE CORBEL OF THE EXISTING MANHOLE FOR CONSTRUCTION PURPOSES. THE CONTRACTOR SHALL REPLACE THE CORBEL SECTION AFTER THE COMPLETION OF CONSTRUCTION WORK. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE 30-INCH DIAMETER COMBINED CURED-IN-PLACE LINING.
- A SCHEDULE OF WATER AND HYDRANT SERVICE CHARGES OF MILWAUKEE WATER WORKS EFFECTIVE MAY 1, 2011 (OR LATEST REVISION THEREOF), FOR SEWER FLUSHING AND LINING (ENCLOSED IN THE BID PACKAGE), IS A PART OF THIS CONTRACT. PLEASE CONTACT MR. EARL SMITH OF MILWAUKEE WATER WORKS AT 414-286-5177 FOR ANY QUESTIONS RELATED TO HYDRANT FEES AND DEPOSITS. ALL PERMIT FEES AND DEPOSITS SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE 30-INCH DIAMETER COMBINED CURED-IN-PLACE LINING.



SHEET NO. 1 OF 7 IS PLAN FILE NO. 231-32
SHEET NO. 2 OF 7 IS PLAN FILE NO. 231-33
SHEET NO. 3 OF 7 IS PLAN FILE NO. 231-34
SHEET NO. 4 OF 7 IS PLAN FILE NO. 231-35
SHEET NO. 5 OF 7 IS PLAN FILE NO. 232-11
SHEET NO. 6 OF 7 IS PLAN FILE NO. 231-42
SHEET NO. 7 OF 7 IS PLAN FILE NO. 232-12



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

ESTIMATE OF QUANTITIES		
ITEM NO.	QUANTITY	DESCRIPTION
30361	340 FT.	36" DIA. COMBINED CLASS "C" BEDDING
43000	3	5'-0" DIA. COMBINED MANHOLES
48030	45 FT.	30" DIA. COMBINED CURED-IN-PLACE LINING
50000	60 FT.	BUILDING SEWERS AND DRAINS
50001	LUMP SUM	BARRICADING
50015	LUMP SUM	EROSION CONTROL
50018	20 CU. YDS.	SLURRY BACKFILL
50300	350	PAVEMENT DOWELS
50301	700 FT.	PAVEMENT SAWING
50307	130 SQ. YDS.	3" ASPHALTIC CONCRETE
50309	130 SQ. YDS.	CONCRETE BASE
50310	170 SQ. YDS.	CONCRETE PAVEMENT
50312	50 SQ. YDS.	3" BITUMINOUS TEMPORARY SURFACE
60002	400 FT.	POST CONSTRUCTION SEWER EXAM

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

SEWER MAIN PLAN
W. HIGHLAND BOULEVARD
N. 27TH STREET
400 ± FT. W. OF N. 27TH STREET

IN FROM TO

HORIZONTAL 1" = 30'
VERTICAL 1" = 10'

IN SEC. NO. 388

PLAN DATE 09/20/12

DESIGNED BY J. RADOMSKI
DRAWN BY A. GLATZEL
CHECKED BY R.N. PARIKH

SYSTEM NO. 3016

EASEMENT NO.
CONTRACT NO. 1
PROJ. ID. SM495120079

APPROVED
Zafar Yousuf
DESIGN ENGINEER
12/5/2012

APPROVED
Timothy J. Han
ENGINEER IN CHARGE
12/5/2012

APPROVED
12/5/2012

CITY ENGINEER & SPECIAL DEPUTY COMMISSIONER OF PUBLIC WORKS
PROJECT NO. 1
OFF. NOTICE NO. 13-008
DATE ADDED 1/15/2013

LINE CODE LEGEND		
GAS	-G-	SANITARY SEWER
ELECTRIC	-E-	STORM SEWER
TELEPHONE	-T-	COMBINED SEWER
CABLE TELEVISION	-TV-	SEW. DISTRICT SEWER
FIBER OPTICS	-FO-	WATER MAIN
CITY UNDERGROUND CONDUIT	-CUC-	SEWER/WATER 24" & OVER
		SAN
		STO
		CMB
		MMSD
		W
		24" & OVER
		STREET LIGHTING
		PAVING LIMITS
		STRUCTURE/BUILDING
		FENCE
		HYDRANT
		ALUMINUM POLE
		CONCRETE POLE
		WOOD POLE