

FILE NAME:V:\1064J\_SECOND\_STREET\_STREETSCAPE\_IMPROVEMENTS\2\_Design\Working\_Drawings\EME\Current\1064J\_Ma-01.dwg  
SAVE:Monday, September 12, 2016 10:20:42 AM

PLOT: EXENTS  
SCALE: 1:1  
BORDER:  
22,34  
COLOR: No.  
RED 0.70MM  
YELLOW 0.20MM  
GREEN 0.25MM  
CYAN 0.40MM  
BLUE 0.50MM  
MAGENTA 0.20MM  
WHITE 0.35MM  
GRAY 0.15MM  
9 0.15MM  
10 1.00MM  
100 0.50MM  
210 0.50MM

FILE:

AWSS GENERAL NOTES

1. IN ACCORDANCE WITH THE PROVISIONS OF THE CALIFORNIA PUBLIC CONTRACT CODE, SECTION 3300, A BID SUBMITTED TO A PUBLIC AGENCY BY A CONTRACTOR WHO IS NOT LICENSED IN ACCORDANCE WITH CHAPTER 9 OF THE BUSINESS AND PROFESSIONS CODE SHALL BE CONSIDERED NON-RESPONSIVE AND SHALL BE REJECTED BY THE PUBLIC AGENCY.
2. AT THE TIME THE CONTRACT IS AWARDED, THE CONTRACTOR SHALL POSSESS A CLASS A, GENERAL ENGINEERING CONTRACTOR'S LICENSE.
3. SINGLE LINE DIAGRAMS ARE PIPE CENTERLINES. MAXIMUM DEFLECTION ALLOWED AT EACH JOINT IS ONE (1) DEGREE UNLESS OTHERWISE SPECIFIED.
4. HYDRANT VALVE SHALL BE AS CLOSE TO MAIN AS POSSIBLE.
5. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND DEPTH OF THE EXISTING AWSS FACILITIES IN THE FIELD AND SHALL ACCORDINGLY ADJUST THE LOCATION AND DEPTH OF THE AWSS FACILITIES TO BE INSTALLED FOR THE REQUIRED CONNECTIONS.
6. THE MINIMUM CLEARANCE BETWEEN THE AWSS PIPE, FITTING OR APPURTENANCE AS THE CASE MAY BE, AND OTHER FACILITIES SHALL BE NOT LESS THAN 12", UNLESS OTHERWISE SPECIFIED, OR APPROVED BY THE ENGINEER.
7. THE CONTRACTOR SHALL SUPPLY ALL MATERIALS UNLESS OTHERWISE SPECIFIED.
8. ALL NEW MATERIALS TO BE FURNISHED BY THE CONTRACTOR SHALL CONFORM TO REQUIREMENTS OF THE CITY AND COUNTY OF SAN FRANCISCO AWSS SPECS AND AWSS STANDARD DRAWINGS, UNLESS OTHERWISE INDICATED. DOCUMENTS ARE AVAILABLE UPON REQUEST TO CITY REPRESENTATIVE.
9. THE CONTRACTOR SHALL FURNISH ALL FLANGE GASKETS, STAINLESS STEEL BOLTS, NUTS AND WASHERS; MJ GASKETS, GLANDS BOLTS AND NUTS.
10. THE CONTRACTOR SHALL WELD DI COLLAR STOPS TO (N) PIPE.
11. CONTRACTOR SHALL REMOVE (E) THRUST BLOCKS AND TIE RODS IN ORDER TO CONNECT TO (E) LINES, AS DIRECTED BY THE CITY REPRESENTATIVE.
12. CONTRACTOR SHALL SUPPORT SEWERS AND SEWER FORCE MAINS, AND OTHER GOVERNMENTAL UTILITY FACILITIES AS INCIDENTAL WORK.
13. REFER TO RELATED DRAWINGS IN THE CONTRACT PACKAGE FOR EXISTING AND NEW UTILITY AT THE LOCATION(S) OF WORK.
14. CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (USA) TO REQUEST THAT MEMBER COMPANIES LOCATE AND MARK THEIR UNDERGROUND SERVICE LINES AND EQUIPMENT AT LEAST 48 HRS PRIOR TO TRENCH EXCAVATION. CONTRACTOR SHALL BE RESPONSIBLE FOR RELATED FEES FOR THEIR COORDINATION EFFORT INCLUDING BUT NOT LIMITED TO FEES REQUIRED BY MEMBER COMPANIES. CONTRACTOR SHALL PAY FOR DPW STREET OPENING PERMIT PRIOR TO EXCAVATION.

AWSS FACILITIES MONITORING NOTES (WHERE SHOWN ON THE DWGS)

1. FOR CONSTRUCTION OF AWSS SETTLEMENT MONITORING AND REFERENCE POINTS, SEE SFWD/CDD'S SPECIFICATION SECTION 01 41 28 - PROTECTION OF EXISTING WATER AND AWSS FACILITIES, FOR STANDARD DRAWINGS AND CRITERIA FOR SURVEY MONITORING AND SUPPORTING THE (E) AWSS FACILITIES ADJACENT TO PROPOSED EXCAVATION WORK.
2. LOCATION SHOWN FOR AWSS SETTLEMENT REFERENCE AND MONITORING POINTS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY LOCATIONS IN THE FIELD.
3. THE CONTRACTOR SHALL REMOVE SETTLEMENT REFERENCE POINT MONITORING ASSEMBLIES AFTER SURVEYS ARE COMPLETED, AND RESTORE THE STREET PAVEMENT AND CONCRETE BASE TO ITS ORIGINAL CONDITION.
4. MONITORING MANHOLE ASSEMBLIES SHALL MEET H-20 LOAD RATING.

SPECIAL INSTRUCTIONS

THE CONTRACTOR SHALL PERFORM PRELIMINARY EXCAVATIONS OF ALL ROUTES OF THE NEW AWSS WORK. THE EXCAVATIONS SHALL BE PERFORMED AT A MINIMUM OF EVERY 10 FEET WITH A WRITTEN REPORT SUMMARIZING ANY CONFLICTS AT EACH LOCATION. THIS REPORT SHALL BE SUBMITTED TO THE CITY REPRESENTATIVE FOR APPROVAL PRIOR TO BEGINNING TRENCH EXCAVATION. EXCAVATIONS SHALL BE A MINIMUM 18-INCHES SQUARE.

THESE PRELIMINARY EXCAVATIONS SHALL BE CONSIDERED INCIDENTAL TO THE WORK AND SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE CITY.

THE CONTRACTOR SHALL INSTALL DUCTILE IRON AWSS HYDRANT FINISH PLATES (PAIR PER HYDRANT) AT ALL (E) AWSS HYDRANTS IN THIS CONTRACT WHERE THE (E) SIDEWALK IS SHOWN TO BE REMOVED AND REPLACED, OR WHEN THE (E) SIDEWALK IS REMOVED AND REPLACED DUE TO ADJACENT WORK OR WHEN THE SIDEWALK IS REPLACED AT THE CONTRACTOR'S DISCRETION. (E) HYDRANT LOCATIONS NOT SHOWN ON THE DRAWINGS SHALL FOLLOW THE AFOREMENTIONED REQUIREMENTS FOR F/I HYDRANT FINISH PLATES. THE DUCTILE IRON FINISH PLATES ARE THE SAME AS THE FINISHED PLATES CALLED OUT TO BE FURNISHED AND INSTALLED FOR (N) AWSS HYDRANTS SHOWN TO BE FURNISHED ON THE NEW WORK DRAWINGS. REFER TO THE AWSS STANDARD DRAWING DETAILS FOR THE INSTALLATION OF THE DUCTILE IRON FINISH PLATES.



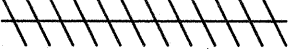
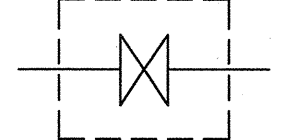
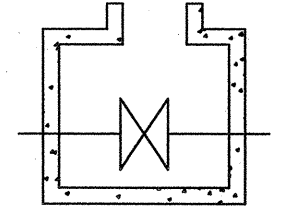
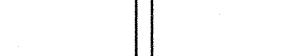



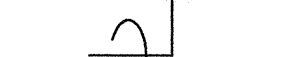




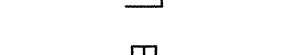
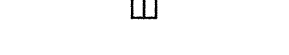

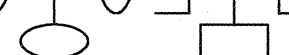


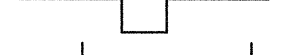


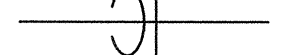



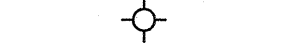
TEMPORARY STREET BASE, PAVEMENT AND SIDEWALK RESTORATION ARE INCIDENTAL TO THE WORK. REFER TO RELATED DWGS IN THE CONTRACT PACKAGE FOR PERMANENT RESTORATION OF CONCRETE STREET BASE, PAVEMENT AND SIDEWALKS.

CONSTRUCTION SEQUENCING

THE AWSS REMOVAL AND NEW WORK AS SHOWN ON DWGS MA-03 THROUGH MA-07 SHALL BE COMPLETED PRIOR TO THE (N) PAVING WORK AND CONSTRUCTION OF THE PEDESTRIAN AND BUS BULB OUTS, SFMTA MUNI BOARDING ISLANDS, AND NEW WORK AT EACH INTERSECTION AND/OR BLOCK, AND AS SHOWN ON EACH PLAN DWG, SHALL BE PERFORMED IN A CONTINUOUS SEQUENCE DUE TO SFFD OPERATIONAL REQUIREMENTS FOR FIREFIGHTING WATER IN THE VICINITY OF THE CONSTRUCTION AREA. COORDINATE WITH SFWD FOR MAIN LINE AND/OR HYDRANT SHUT DOWN PRIOR TO BEGINNING ANY WORK. REFER TO THE SPECIFICATIONS FOR ADDITIONAL DETAILS.

AWSS LEGEND

(THIS IS A STANDARD AWSS LEGEND - NOT ALL SYMBOLS MAY APPLY TO THIS PROJECT)

	CENTERLINE OF AWSS TO BE REMOVED (REMOVAL WORK) AND/OR INSTALLED (NEW WORK)
	EXISTING PIPE (TO REMAIN IN PLACE)
	EXISTING PIPE TO BE ABANDONED IN PLACE
	VALVE IN VALVE VAULT - PLAN
	VALVE IN VALVE VAULT - ELEVATION
	PRECAST VALVE BOX, FRAME, COVER, DUST PAN - ELEVATION
	DI FLANGED GATE VALVE
	CI GATE VALVE
	HIGH PRESSURE HYDRANT ASSEMBLY - PLAN
	HIGH PRESSURE HYDRANT ASSEMBLY - ELEVATION
	HYDRANT RISER - ELEVATION
	AIR VALVE ASSEMBLY - ELEVATION
	CONCRETE THRUST BLOCK
	DI BELL AND SPIGOT PUSH-ON RESTRAINT JOINT (PIPE) OR MECHANICAL JOINT (FITTINGS)
	CI BELL AND SPIGOT OR FITTING LEAD JOINT
	DI FLANGED
	DI AND CI ELBOW - PLAN AND ELEVATION (INTO SHEET)
	DI AND CI TEE - PLAN
	DI AND CI TEE - ELEVATION
	DI SLEEVE
	CI SLEEVE WITH LEAD JOINTS
	DI AND CI CAP
	DI AWSS MECHANICAL JOINT BELL AND STOP COLLAR BOLTED WITH TIE RODS, NUTS AND WASHERS
	DI BELL COLLAR BOLTED WITH TIE RODS, NUTS AND WASHERS
	FIREBOAT WHARF MANIFOLD
	AWSS SETTLEMENT REFERENCE POINT AND NUMBER
	AWSS MONITORING POINT AND NUMBER
	SFWD LOW PRESSURE FIRE HYDRANT

AWSS ABBREVIATIONS

A/R	AS REQUIRED
ASSY	ASSEMBLY
AWSS	AUXILIARY WATER SUPPLY SYSTEM
BFC	BORROW FROM CITY
BOP	BOTTOM OF PIPE
BS	BELL AND SPIGOT PIPE
BSL	BELL AND SPIGOT LUGGED PIPE
CCSF	CITY AND COUNTY OF SAN FRANCISCO
CDD	CITY DISTRIBUTION DIVISION
CI	CAST IRON
CTEL	CONNECT TO EXISTING LINE
CTS	CUT TO SUIT
DB	DOUBLE BELL PIPE
DBL	DOUBLE BELL LUGGED
DI	DUCTILE IRON
DIP	DUCTILE IRON PIPE
DS	DOUBLE SPIGOT PIPE
DSL	DOUBLE SPIGOT LUGGED PIPE
DWG	DRAWING(S)
(E)	EXISTING
FC	FURNISHED BY CITY
FLG	FLANGE
F/I	FURNISH AND INSTALL
FS	FROM SALVAGE
GHB	CLASS "GH" BELL
HP HYD	HIGH PRESSURE HYDRANT
HPW	HIGH PRESSURE WATER
LP	LOW PRESSURE
MJB	MECHANICAL JOINT BELL
(N)	NEW - FURNISH & INSTALL INSTALL UNDER THIS CONTRACT
ℙ	PROPERTY LINE
RC	REMOVE AND DISPOSE OF AS CONTRACTOR'S PROPERTY
R&S	REMOVE AND SALVAGE AS CITY PROPERTY
RIP	REMAIN IN PLACE
RTC	CLEAN AND RETURN TO CITY
SFPW	SAN FRANCISCO PUBLIC WORKS
SFFD	SAN FRANCISCO FIRE DEPARTMENT
SFPUC	SAN FRANCISCO PUBLIC UTILITIES COMMISSION
SFWD	SAN FRANCISCO WATER DEPARTMENT
SRP	SETTLEMENT REFERENCE POINT
STN STL, SS	STAINLESS STEEL
TYP	TYPICAL

REFERENCES  
GATE BOOK PAGES, PLANS,  
SURVEY NOTES, ETC. USED  
  
GATE BOOK PAGES  
NO.



CITY AND COUNTY OF SAN FRANCISCO SAN FRANCISCO PUBLIC WORKS DESIGN AND ENGINEERING			
SECTION MANAGER	09/15/16	DRAWN	RC/MM 9/2016
DEPUTY DIVISION MANAGER	09/15/16	DESIGNED	RC/MBS 9/2016
DIVISION MANAGER	9/8/16	CHECKED	MC 9/2016
NO.	DATE	DESCRIPTION	BY APPR'D
REVISIONS			

CONTRACT NO. 1064J(R)

CITY AND COUNTY OF SAN FRANCISCO PUBLIC UTILITIES COMMISSION WATER ENTERPRISE CITY DISTRIBUTION DIVISION			
2ND STREET STREETSCAPE IMPROVEMENT PROJECT			
AUXILIARY WATER SUPPLY SYSTEM WORK LEGEND, ABBREVIATIONS AND GENERAL NOTES			
APPROVED	APPROVED	SCALE	
ENGINEERING MANAGER	MANAGER, CITY DISTRIBUTION DIVISION	DATE	9/2016
DRAWING/FILE NO.		REVISION NO.	
MA-01	106,308	0	

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4 5 6 7 8 9 10