

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 SURVEY MONITORING NOTES

1.

REFER TO SPECIFICATION SECTION 01 41 28 "PROTECTION OF EXISTING AWSS AND WATER FACILITIES" AS PREPARED BY THE SAN FRANCISCO WATER DEPARTMENT – CITY DISTRIBUTION DEPARTMENT FOR INSTALLATION OF SETTLEMENT AND REFERENCE MONITORING POINTS AND SUPPORT OF (E) AWSS FACILITIES. THIS SPECIFICATION SECTION INCLUDES DRAWINGS HPL-5993.1 CH 1 AND HPL-5993.3 CH 1 FOR INSTALLATION DETAILS OF SETTLEMENT AND REFERENCE MONITORING POINTS.
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.
5.

SEE ADDITIONAL NOTES ON DWG MA-G01.

CONSTRUCTION SEQUENCING

THE SETTLEMENT AND REFERENCE MONITORING POINTS SHALL BE INSTALLED AND INITIAL SURVEY READINGS TAKEN PRIOR TO BEGINNING ANY SEWER EXCAVATION WORK IN THE VICINITY OF EACH LOCATION OF WORK AS SHOWN ON THE FOLLOWING DWGS. THIS INCLUDES SUPPORTING AWSS FACILITIES ADJACENT TO THE SEWER EXCAVATION WORK WHERE REQUIRED, WHICH SHALL BE INCLUDED AS PART OF THE CONTRACT WORK. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

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 LEAD 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
	SFWD LOW PRESSURE FIRE HYDRANT
	AWSS SETTLEMENT REFERENCE POINT AND NUMBER
	AWSS MONITORING POINT AND NUMBER
	SUPPORTING OF (E) AWSS FACILITIES
	PLUG

ABBREVIATIONS

A/R	AS REQUIRED
ASSY	ASSEMBLY
AWSS(AWS)	AUXILIARY WATER SUPPLY SYSTEM
BFC	BORROW FROM CITY
BOP	BOTTOM OF PIPE
BS	BELL AND SPIGOT PIPE
BSL	BELL AND SPIGOT LUGGED PIPE
CB	CATCHBASIN
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
(E)	EXISTING
EFWS	EMERGENCY FIREFIGHTING WATER SUPPORT
F/C	FURNISHED BY CITY
FLG	FLANGE
F/I	FURNISH AND INSTALL
F/S	FROM SALVAGE
GHB	CLASS "GH" BELL
HP HYD	HIGH PRESSURE HYDRANT
HPW	HIGH PRESSURE WATER
ISP	IRON STONE PIPE
LP	LOW PRESSURE
MGV	MOTORIZED GATE VALVE
MJB	MECHANICAL JOINT BELL
(N)	NEW – FURNISH & INSTALL/ INSTALL UNDER THIS CONTRACT
℞	PROPERTY LINE
R/D	REMOVE AND DISPOSE OF AS CONTRACTOR'S PROPERTY
R/S	REMOVE AND SALVAGE AS CITY PROPERTY
RC	REINFORCED CONCRETE
RCP	REINFORCED CONCRETE PIPE
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
SMP	SETTLEMENT MONITORING POINT(S)
SRP	SETTLEMENT REFERENCE POINT(S)
STD	STANDARD
STN STL, SS	STAINLESS STEEL / SANITARY SEWER / SIDE SEWER
VCP	VITRIFIED CLAY PIPE

PLOT: EXTENTS
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

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



CITY AND COUNTY OF SAN FRANCISCO SAN FRANCISCO PUBLIC WORKS BUREAU OF ENGINEERING			
ACTING SECTION MANAGER	DRAWN WC	11/2021	
ACTING DEPUTY BUREAU MANAGER	DESIGNED RC	11/2021	
ACTING BUREAU MANAGER	CHECKED MBS	11/2021	
NO.	DATE	DESCRIPTION	BY APPRD
REVISIONS			

SOURCING EVENT ID. 0000005626			
CITY AND COUNTY OF SAN FRANCISCO PUBLIC UTILITIES COMMISSION WATER ENTERPRISE CITY DISTRIBUTION DIVISION			
MISSION ST AND GENEVA AVE IMPROVEMENT PROJECT			
AUXILIARY WATER SUPPLY SYSTEM WORK SETTLEMENT MONITORING – LEGEND, ABBREVIATIONS AND GENERAL NOTES			
APPROVED		APPROVED	
ENGINEERING MANAGER		MANAGER, CITY DISTRIBUTION DIVISION	
MA-G02		120,728	
SCALE		NONE	
DATE		11/2021	
REVISION NO.		0	