



NOTES

1. MINIMUM TRENCH DEPTHS AND TRENCH WIDTHS MUST BE ADHERED TO UNLESS OTHERWISE APPROVED BY THE CITY REPRESENTATIVE.
2. OVER EXCAVATION FOR BEDDING IS NOT REQUIRED UNLESS:
 - A. BOTTOM OF TRENCH EXCAVATION IS IN BEDROCK, WHERE BEDDING SHALL BE 12" THICK.
 - B. BEDDING SHALL BE APPROVED CLEAN SAND OR 3/4" DRAIN ROCK. SAND SHALL BE COMPACTED TO 95% RELATIVE COMPACTION.
3. WARNING TAPE SHALL BE 6" WIDE, YELLOW COLORED NON-DETECTABLE TYPE. INSCRIPTION MESSAGE, USING 1.5" MINIMUM HEIGHT BLACK TEXT, SPACED AT 3'-0" FT MAXIMUM INTERVALS, SHALL READ "CAUTION - SFFD AWSS WATER PIPELINE BELOW". WARNING TAPE SHALL OVERLAP 12" MINIMUM AT SPLICES.
4. TRENCH CONSTRUCTION SHALL CONFORM TO OSHA AND CAL OSHA REGULATIONS.
5. 12" DI AWSS PIPE SHOWN WITH STOP COLLAR IN PLACE. 6" MINIMUM DIMENSION IS FROM BOTTOMMOST PAIR OF LUGS TO BOTTOM OF TRENCH.
6. AREAS UNDER THE ADDITIONAL 1' PAVEMENT AND CONCRETE ROAD BASE TO BE REMOVED FOR THE T-TRENCH RESTORATION SHALL BE SCARIFIED, RESHAPED, AND COMPACTED TO THE REQUIRED DENSITY PRIOR TO FURTHER CONSTRUCTION.
7. REFER TO SPEC SECTION 31 22 33 - CONTROLLED LOW STRENGTH MATERIAL FOR CALTRANS' REQUIRED SLURRY CEMENT.
8. TACK COAT (ASPHALTIC EMULSION) SHALL BE APPLIED TO PRIOR TO PLACING HMA-A



NOMINAL AWSS PIPE DIAMETER (PIPE SLEEVING)	MINIMUM TRENCH WIDTH "A"
8"	36"
10", 12"	42"
14", 16"	48"
18", 20"	60"
(24")	72"
(30", 32")	80"
(36", 42")	90"

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PERMISSION OF THE SFPUC.



REFERENCES

REFERENCES
GATE BOOK PAGES, PLANS,
SURVEY NOTES, ETC., USED

GATE NO.	BOOK NO.	PAGES



CITY AND COUNTY OF SAN FRANCISCO			
SAN FRANCISCO PUBLIC WORKS			
BUREAU OF DESIGN AND ENGINEERING			
SECTION: MANAGER <i>12/14/18</i>		DRAWN <i>WM/WC</i> 01/20	
DEPUTY BUREAU MANAGER <i>12/14/18</i>		DESIGNED <i>MBS</i> 01/20	
BUREAU MANAGER <i>12/14/18</i>		CHECKED <i>EL</i> 01/20	
NO.	DATE	DESCRIPTION	BY APP
REVISONS			

CITY AND COUNTY OF SAN FRANCISCO			
PUBLIC UTILITIES COMMISSION			
WATER ENTERPRISE			
CITY DISTRIBUTION DIVISION			
19TH AVENUE (STATE ROUTE 1) COMBINED CITY PROJECT			
19 19 19 AUXILIARY WATER SUPPLY SYSTEM WORK DETAILS I			
APPROVED  ENGINEERING MANAGER		APPROVED  MANAGER, CITY DISTRIBUTION DIVISION	
SCALE NONE		DATE 01/2019	
R/D SHEET 284 OF 356	PLAN NO. MA-D07	FILE NO. 111.582	REVISION NO. 0