

GENERAL NOTES

1. FOR 3” AND LARGER PIPES, HEAVY LINES AND SYMBOLS INDICATE WORK TO BE DONE BY THE CONTRACTOR AND SFWD. LIGHT LINES AND SYMBOLS INDICATE EXISTING MAINS.
2. PIPES LESS THAN 3” IN DIAMETER (SERVICE PIPES) ARE SHOWN IN LIGHT LINES, SIZES SHOWN ARE FOR EXISTING TAP SIZES. FOR ADDITIONAL INFORMATION, REFER TO THE SERVICE LIST IN THE TECHNICAL SPECIFICATIONS.
3. THE LOCATION AND GENERAL ARRANGEMENT OF UNDERGROUND UTILITIES, UNDERGROUND STRUCTURES, PIPE LINES WITH FITTINGS, VALVES AND APPURTENANCES, WHERE SHOWN, ARE DIAGRAMMATIC.
4. INFORMATION AS TO UNDERGROUND AND/OR OTHER CONDITIONS AS INDICATED BY ADJUSTMENTS IN PIPE ALIGNMENT, OR OBSTRUCTION SHOWN ON THE PLANS AND/OR SPECIFICATIONS HAS BEEN OBTAINED WITH REASONABLE CARE BASED ON INFORMATION OBTAINED FROM AVAILABLE RECORDS OF THE OWNERS OF THE UTILITIES AND HAS BEEN RECORDED IN GOOD FAITH.
5. THERE IS NO EXPRESSED OR IMPLIED AGREEMENT THAT THE WATER DEPARTMENT AND THE OWNERS OF UTILITIES MAKE ANY REPRESENTATION AS TO THE COMPLETENESS OR ACCURACY OF SAID INFORMATION OF UTILITY FACILITIES THAT MAY HAVE BEEN PLACED OR INDICATED HERE ON.
6. THE PROPOSED LOCATION WITHIN THE STREET OR SIDEWALK AREA FOR FACILITIES TO BE CONSTRUCTED UNDER THIS CONTRACT, AS SHOWN ON THE PLANS, IS APPROXIMATE ONLY. THE CONTRACTOR SHALL DIG TEST HOLES TO DETERMINE THE EXACT LOCATION OF THE WORK WITHIN THE STREET OR SIDEWALK AREA. CHANGES IN THE ALIGNMENT OF ANY PORTION OF THIS WORK WHICH MAY RESULT IN DIFFERENT CONSTRUCTION METHODS OR DIFFERENT CONDITIONS, SUCH AS REQUIRING HAND DIGGING FOR PORTIONS OF THE WORK, WILL NOT BE SUBJECT TO CLAIM FOR ANY EXTRA PAYMENT.
7. AT THE TIME OF BID OPENING, THE CONTRACTOR SHALL POSSESS A VALID CLASS “A” CALIFORNIA GENERAL ENGINEERING CONTRACTOR’S LICENSE.
8. CONTRACTOR SHALL PROVIDE 21 DAYS ADVANCE NOTICE REQUEST FOR WATER DEPARTMENT PIPELINE INSTALLATION ASSOCIATED WITH RELOCATION WORK ALONG WITH ALL CONNECTION WORK.
9. CONTRACTOR SHALL COMPLETE ALL TRAFFIC CONTROL, SAW CUTTING, EXCAVATION, BACKFILL, SHORING, COMPACTION, PAVEMENT RESTORATION AND ALL OTHER SPECIFIED WATER DEPARTMENT SUPPORT ACTIVITIES ASSOCIATED WITH PIPELINE AND VALVE RELOCATION WORK, WATER BETTERMENT AND NIGHT TIME WORK BY CDD AS IDENTIFIED IN BID ITEMS.
10. CONTRACTOR SHALL DOWNLOAD SFPUC CITY DISTRIBUTION DIVISION STANDARD PLANS FOR ALL DETAILS FROM:
<http://sfwater.org/waterplans>
11. FIRE HYDRANT REMOVAL, CONNECTION AND DISCONNECTION OF EXISTING WATER PIPELINE AND APPURTENANCES SHALL BE PERFORMED BY SFWD.

12. CONTRACTOR SHALL COORDINATE WITH SFWD FOR PIPE SHUTDOWN ON SLOAT BOULEVARD PRIOR TO COMMENCING WORK.
13. ALL DIMENSIONS AND CLEARANCES SHALL BE FIELD VERIFIED. CONTRACTOR SHALL CONFIRM EXTENT OF PIPELINE REMOVAL WITH CITY REPRESENTATIVE AS NECESSARY TO INSTALL NEW PIPING AND VALVES.
14. CONTRACTOR SHALL PROTECT ALL PIPING, STRUCTURES & FEATURES TO REMAIN IN PLACE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR SHALL REPAIR EXISTING UTILITIES, STRUCTURES & FEATURES DAMAGED DURING CONSTRUCTION TO THE SATISFACTION OF THE CITY REPRESENTATIVE.
15. TYPE A WORK:
CONTRACTOR SHALL ADJUST EXISTING WATER FACILITIES, INSTALL 36-INCH AND SMALLER DUCTILE IRON PIPE, PIPE FITTINGS, APPURTENANCES, FIRE HYDRANT BURYS, CAPS WITH AIR VALVES/BLOW OFFS AND FLUSHING ASSEMBLIES AND THE V-BIO ENHANCED POLYETHYLENE ENCASEMENT.

TYPE B WORK:
SFWD WILL ADJUST EXISTING WATER FACILITIES, INSTALL 8-INCH DUCTILE IRON PIPE, PIPE FITTINGS, APPURTENANCES, FIRE HYDRANT BURYS, CAPS WITH FLUSHING ASSEMBLIES AND THE V-BIO ENHANCED POLYETHYLENE ENCASEMENT.

16. CONTRACTOR SHALL NOTIFY PG&E AT LEAST 48 HOURS IN ADVANCE BEFORE PERFORMING ANY WORK OR ACTIVITIES, INCLUDING BUT NOT LIMITED TO SUBGRADING, TRENCHING, POTHOLING, EXCAVATION OR INSTALLATION OF THE WATER MAIN, WITHIN 10 FEET OF ANY GAS LINE.
17. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL, TEMPORARY PAVING AND ALL RELATED SUPPORTIVE EARTH WORK SUCH AS SHORING, EXCAVATION AND BACKFILL.
18. SFWD WILL CONNECT NEW WATER LINES TO EXISTING WATER LINES AND DISCONNECT EXISTING WATER LINES FROM THE SYSTEM.
19. SFWD WILL RELOCATE ALL EXISTING WATER METER BOXES TO FIRST FLAG IN SIDEWALK BY CURB AND RENEW ALL WATER SERVICES.

LEGEND:

PIPE	
BP	BYPASS
CIP	CAST IRON PIPE
CP	CONCRETE PIPE
C	COPPER PIPE
DC	DIELECTRIC COATING
DIP	DUCTILE IRON PIPE
DL	DIELECTRIC LINING
G	GALVANIZED PIPE
ID	INSIDE DIAMETER
IP	IRON PIPE
ISP	IRON STONE PIPE
P	PIPE
PP	PLASTIC PIPE
RCP	REINFORCED CONCRETE PIPE
SP	STEEL PIPE
T	THICKNESS
TP	TRANSITE PIPE
VCP	VITRIFIED CLAY PIPE
VPI	VERTICAL POINT OF INTERSECTION
WIP	WROUGHT IRON PIPE
WS	WELDED STEEL

CONDUIT

C	CONDUIT
CC	CABLE CONDUIT
DBC	DIRECT BURIAL CONDUIT
FC	FIBER CONDUIT
FCC	FIBER CEMENT CONDUIT
PC	PLASTIC CONDUIT
SC	SOAPSTONE CONDUIT
TC	TILE CONDUIT
WC	WOOD CONDUIT

GENERAL

AB	ABANDONED
AV	AIR VALVE
AW	AIR/VACUUM VALVE
BO	BLOW OFF
BR	BRICK LINED
BV	BUTTERFLY VALVE
CONN	CONNECT
CV	CHECK VALVE
DISCONN	DISCONNECT
DIST	DISTANCE
DIV	DIVIDE GATE
FA	FIRE ALARM
FFEL	FINISHED FLOOR ELEVATION
FW	FIRE CISTERN
GV	GATE VALVE
H	HOUSE
HP	HIGH PRESSURE HYDRANT
HYD	HYDRANT
LPFH	LOW PRESSURE FIRE HYDRANT
MH	MANHOLE
O.H; OH	OPPOSITE HAND, OVERHEAD (CABLES/WIPRES/LINES)
RN	RENEW
RT	RETAP
R/W	CALTRANS RIGHT-OF-WAY LINE
SC	STOP COCK
SERV	SERVICE
SFWD	SAN FRANCISCO WATER DEPARTMENT
SPD	SEE PIPELINE DRAWING
SS	STAINLESS STEEL
STL	STEEL
TCV	TAPPING GATE VALVE
UK	UNKNOWN
WM	WATER METER

DUCT

CD	CONCRETE DUCT
CWD	CREOSOTED WOOD DUCT
D	DUCT
PD	PAPER PIPE DUCT
TD	TRANSITE DUCT
TK	TRANSITE KORDUCT
VCD	VITRIFIED CLAY DUCT

UTILITIES

AWS	AUXILIARY WATER SUPPLY SYSTEM
BLP	BUREAU OF LIGHT, HEAT & POWER
C	TCI CABLE
DOE	DEPARTMENT OF ELECTRICITY
E	PG & E (ELECTRICAL)
G	PG & E (GAS)
HH	HETCH HETCHY WATER & POWER
L	TRAFFIC LIGHT
MC	MCI METRO (TELEGRAPH)
S,SS	SAN FRANCISCO CLEAN WATER PROGRAM (SEWER)
SGNL	STREET LIGHT SIGNAL
SL	STREET LIGHT
SSL	SANITARY SEWER LATERAL
ST	PG & E (STEAM)
T	PACIFIC BELL TELEPHONE/AT&T (TELEPHONE)
TH	SAN FRANCISCO THERMAL
TS	DEPARTMENT OF PARKING & TRAFFIC (TRAFFIC SIGNAL)
W	WATER DEPARTMENT
WU	WESTERN UNION

WATER APPURTENANCES SYMBOLS

HYDO	HYDRANT
▷	EXISTING REDUCER
►	NEW REDUCER
α	EXISTING BLOW-OFF VALVE
⊙ ⊙ ⊙	EXISTING GATE VALVE
I	AIR VALVE/BLOW-OFF VALVE
⊕	DIVIDE GATE VALVE
<	TEE
●	NEW GATE VALVE/BUTTERFLY VALVE
⌒	NEW CAP W/2” AV/BO
α	NEW BLOW-OFF VALVE
⌒⌒	NEW CAP W/FLUSHING ASSEMBLY

STRUCTURE SYMBOLS

○	MANHOLE
⊙	SEWER MANHOLE
□	PULL BOX, JUNCTION BOX OR SPICE BOX OR CABLE BOX
□	VAULT
—	S-18”VCP (SEWER - 18” VITRIFIED CLAY PIPE)
—	T-4D-3”FC (TELEPHONE - FOUR DUCTS - 3” FIBER CONDUIT)
≡≡≡	EXISTING ABANDONED UTILITY
≡≡≡	MAIN TO BE ABANDONED IN THIS CONTRACT
⊕	CATCH BASIN

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REFERENCES

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

65 & 90

CCSF 2013
NAVD88



NO.	DATE	DESCRIPTION	BY	APPR'D
REVISIONS				
2	03/10/21	PCO #3 - CHANGE LEGEND NAME	AC	JA
1	01/22/20	ADDENDUM 1 - PIPELINE REVISED	MM	BY

PLOT: EXTEND
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 0.70MM
210 0.60MM

WATER CONTRACT NO. WD-2775
CONTRACT NO. 2652J

CITY AND COUNTY OF SAN FRANCISCO PUBLIC UTILITIES COMMISSION INFRASTRUCTURE DIVISION ENGINEERING MANAGEMENT BUREAU			
INSTALLATION OF 16-INCH AND 36-INCH, AND RELOCATION OF 8-INCH DUCTILE IRON WATER MAINS AT VARIOUS LOCATIONS ON 19TH AVENUE FROM HOLLOWAY AVENUE TO LINCOLN WAY			
GENERAL NOTES AND LEGEND			
CHECKED / APPROVED	BY / EC	DRAWN	AS SHOWN
SECTION MANAGER	T. LEE	DESIGNED	OCT 2018
APPROVED	APPROVED		
MANAGER, ENGINEERING MANAGEMENT BUREAU		MANAGER, CITY DISTRIBUTION DIVISION	
SHEET	PLAN NO.	DRAWING NO.	REVISION NO.
OF	WD-2775-1.1	E-31363	2