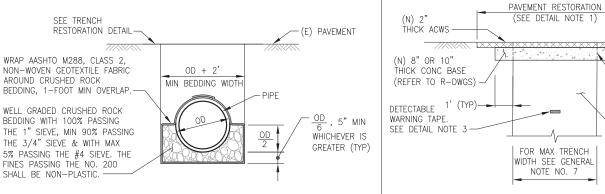
LEGEND **ABBREVIATIONS** PLUS OR MINUS SIZE & TYPE EXISTING SEWER OR CULVERT ACWS ASPHALT CONCRETE WEARING SURFACE EXISTING MH AASHTO AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS Ω, E3 EXISTING CB. SWI APPRO) APPROXIMATE EXISTING SIDE SEWER AND FRESH AIR INLET AVF AVENUE EXISTING MUNI TRACKS AWSS AUXILIARY WATER SUPPLY SYSTEM BLVD BOULEVARD ======== EXISTING MUNI OVERHEAD WIRES BRK BRICK EXISTING AWSS CB CATCHRASIN SIZE & TYPE СН CHANGE NEW SEWER OR CULVERT CIP CAST IRON PIPE 0 NEW MH PER SFDPW STD PLAN 87,181 CIPL CURED IN-PLACE LINER CONC 0 REPLACE (E) MH PER SFDPW STD PLAN 87,181 CONCRETE C-CCENTER TO CENTER (O) MORTAR FXISTING MH DFT DETAIL DIA OR Ø DIAMETER ABANDON FXISTING ME DIP DUCTILE IRON PIPE × REMOVE EXISTING MH DWG DRAWING EAST (E) **EXISTING** EXISTING MH ELEVATION F0 FQUAL NFW MH HDPE HIGH DENSITY POLYETHYLENE PIPE HETCH HETCHY WATER POWER HORIZ HORIZONTAL MORTAR EXISTING MH ID INSIDE DIAMETER INV INVERT REPLACE EXISTING MH ISP IRON STONE PIPE LF LINEAR FEET MAX MAXIMUM ABANDON EXISTING MH MDB MUNI DUCT BANK MH MANHOLF. MH "X" MANHOLE DESIGNATION REMOVE EXISTING MH MIN MINIMUM NORTH NEW CB PER SFDPW STD PLAN 87,188 (N) NFW NIC NOT IN CONTRACT REPLACE (E) CB PER SFDPW STD PLAN 87,188 NO. NUMBER NTS NOT TO SCALE ABANDON EXISTING CB OC ON CENTER NEW SS PER SFDPW STD PLAN 87,196 OCS OVERHEAD CONTACT SYSTEM OD OUTSIDE DIAMETER NEW 6" OR 8"Ø SS CONNECTION TO PROPERTY LINE MAIN SEWER RC REINFORCED CONCRETE PLUG EXISTING FACILITIES RCP REINFORCED CONCRETE PIPE RFF REFERENCE PLUG AND FILL EXISTING FACILITIES 1///// ROW RIGHT OF WAY APPROXIMATE PAVEMENT SURFACE SOUTH SF SQUARE FEET DIRECTION OF FLOW S.F. SAN FRANCISCO SFFD SAN FRANCISCO FIRE DEPARTMENT SLURRY GROUT SHOWN IN SECTION OR PROFILE SFPW SAN FRANCISCO PUBLIC WORKS SLOPE. SPECS **SPECIFICATIONS** SPEED HUMF SS SIDE SEWER (LATERAL) ST STREET STD STANDARD SWI STORM WATER INLET THRU THROUGH (TYP) TYPICAL VFRT VERTICAL VCP VITRIFIED CLAY PIPE WEST W/ WITH W/0 WITHOU

GENERAL NOTES

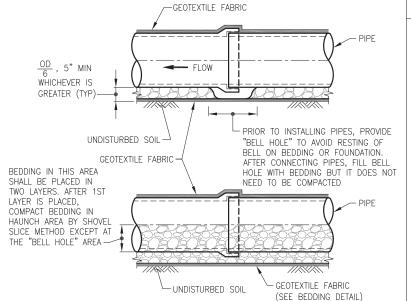
- NUMBER AND LOCATIONS OF SIDE SEWER CONNECTIONS ARE APPROXIMATE. CONTRACTOR SHALL VERIFY SIDE SEWER CONNECTIONS
- ALL GROUND SURFACE ELEVATIONS AND INVERT ELEVATIONS TO BE CONFORMED ARE APPROXIMATE
- ELEVATIONS ARE IN REFERENCE TO S.F. CITY DATUM. S.F. CITY DATUM IS APPROXIMATELY 11.35 FEET HIGHER THAN NAVD88 DATUM.
- 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
- AT THE TIME THIS CONTRACT IS BID, THE CONTRACTOR SHALL POSSESS A STATE OF CALIFORNIA CLASS "A" GENERAL ENGINEERING CONTRACTOR'S LICENSE
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN EXCAVATION PERMIT FROM SFPW- PERMIT CENTER LOCATED AT 49 SOUTH VAN NESS AVENUE, SUITE 200, SAN FRANCISCO, CA 94103.
- MAXIMUM TRENCH WIDTH SHALL BE THE LARGER OUTSIDE DIMENSION OF THE NEW OR EXISTING SEWER/STRUCTURE PLUS 1.5 FEET ON
- ALL NEW VCP MAIN SEWERS SHALL BE CONSTRUCTED ON CRUSHED ROCK BEDDING PER DETAIL SHOWN BELOW UNLESS OTHERWISE NOTED.

- PIPE LENGTH SHOWN IN PROFILE INDICATES HORIZONTAL DISTANCE EXCLUDING INSIDE DIMENSION OF EACH SEWER MANHOLE/STRUCTURE.
- 10. REMOVE SECTION OF (E) SEWERS TO BE ABANDONED AS NECESSARY TO CONSTRUCT (N) SEWER MAINS AND SIDE SEWER EXTENSIONS, AND FILL/PLUG ENDS OF (E) SEWERS TO REMAIN, AND AS INCIDENTAL
- 11. AFTER SEWER WORK, PAVING AND CURB RAMP HAS BEEN COMPLETED, THE CONTRACTOR SHALL CLEAN ALL CATCHBASINS SHOWN ON SW-DRAWINGS AND REPLACE CAST IRON WATER TRAP AS DIRECTED BY THE CITY REPRESENTATIVE
- 12. CONTRACTOR SHALL PROTECT ALL SURVEY MONUMENTS AND BENCHMARKS LOCATED WITHIN THE CONTRACT LIMIT, CITY MONUMENTS LOCATED WITHIN 20 FEET OF CONSTRUCTION MUST BE REFERENCED PRIOR TO ANY DEMOLITION, AND A CORNER RECORD MUST BE FILED WITH THE COUNTY SURVEYOR'S OFFICE BY CONTACTING BUREAU OF STREET-USE AND MAPPING AT (628) 271-2000. THE MONUMENTS MUST BE REVISITED AFTER CONSTRUCTION HAS BEEN COMPLETED TO VERIFY THAT NO MOVEMENT HAS OCCURRED. IF MONUMENTS ARE NOT REFERENCED PRIOR TO CONSTRUCTION, THE CITY WILL CHARGE A MINIMUM FEE OF \$10,000 A PIECE TO THE CONTRACTOR FOR REESTABLISHING THE MONUMENT.
- 13. PRIOR TO ABANDONING EXISTING SEWER FACILITIES, CONTRACTOR SHALL VERIFY THAT THERE ARE NO ACTIVE CONNECTIONS TO THESE FACILITIES. CONTRACTOR SHALL NOTIFY CITY REPRESENTATIVE IMMEDIATELY OF ANY DISCREPANCIES.

- 14. RIM ELEVATIONS OF PROPOSED SEWER MANHOLES SHALL CONFORM TO FINISHED ROADWAY FI EVATIONS
- 15. CONTRACTOR SHALL VERIFY EXACT DIAMETER AND LENGTH OF EXISTING SEWER TO BE LINED PRIOR TO MANUFACTURING THE LINER.
- SIDE SEWER (LATERAL) SHALL BE CONNECTED TO THE MAIN AT OR ABOVE THE SPRING LINE UNLESS OTHERWISE DIRECTED BY THE CITY REPRESENTATIVE
- SPRAY MORTAR SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 6000 PSLAT 7 DAYS, FOR SURFACE PREPARATIONS AND ADDITIONAL REQUIREMENTS, REFER TO SPECIFICATION SECTION 33 01 30.63.
- 18. SIDE SEWER (LATERAL) TO BE REPLACED SHALL BE CONSTRUCTED ALONG THE SHORTEST DISTANCE FROM CURB TO MAIN SEWER WHERE POSSIBLE, UNLESS OTHERWISE NOTED.
- 19. SFMTA OVERHEAD ELECTRIC WIRES CARRY A MINIMUM OF 600 VOLTS DC AND HAVE A 17-FEET± VERTICAL CLEARANCE FROM THE ROADWAY. THE CONTRACTOR'S ATTENTION IS DIRECTED TO ARTICLE 37 OF GENERAL ORDER 95 OF THE STATE OF CALIFORNIA PUBLIC UTILITIES COMMISSION. CAL OSHA REGULATIONS REQUIRE THAT ANY EQUIPMENT THAT MOVES VERTICALLY MUST MAINTAIN A 10 FEET RADIAL CLEARANCE, AND ANY OTHER EQUIPMENT MUST MAINTAIN A 6 FEET CLEARANCE FROM MUNI OVERHEAD ELECTRIC WIRES. THE CONTRACTOR SHALL OBSERVE THESE REGULATIONS DURING THE ENTIRE DURATION OF THE CONSTRUCTION WORK.



BEDDING DETAIL FOR RIGID PIPE



PIPE INSTALLATION

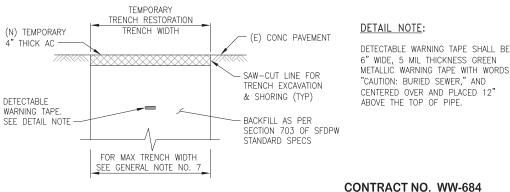
REFERENCE INFORMATION & FILE NO. OF SURVEYS

(SEE DETAIL NOTE 1) — (E) PAVEMENT FINAL SAW-CLIT LINE FOR CONCRETE BASE RESTORATION (TYP) INITIAL SAW-CUT LINE FOR TRENCH EXCAVATION & SHORING (TYP) BACKFILL AS PER SECTION FOR MAX TRENCH 703 OF CURRENT SAN WIDTH SEE GENERAL FRANCISCO PUBLIC WORKS NOTE NO. 7 STANDARD SPECIFICATIONS

DETAIL NOTES:

- 1. LIMITS OF FINAL ACWS SHALL BE AS DELINEATED PER PR-DRAWINGS
- 2. RESTORATION OF CONCRETE BASE MAY BE WIDER THAN SHOWN IN TRENCH RESTORATION DETAIL PER DPW ORDER 187,005, SECTION 11.
- 3. DETECTABLE WARNING TAPE SHALL BE 6" WIDE, 5 MIL THICKNESS GREEN METALLIC WARNING TAPE WITH WORDS "CAUTION: BURIED SEWER," AND CENTERED OVER AND PLACED 12" ABOVE THE TOP OF PIPE.

TRENCH RESTORATION DETAIL FOR ASPHALT STREET



TEMPORARY TRENCH RESTORATION DETAIL FOR CONCRETE STREET

CITY AND COUNTY OF SAN FRANCISCO SAN FRANCISCO PUBLIC WORKS BUREAU OF ENGINEERING Ada N 05/12/2022 DRAWN AK/ V.CHEUNG 05/2022 .WONG H.BAKER 05/202 C.LINH 05/202 c. C69218

CITY AND COUNTY OF SAN FRANCISC **PUBLIC UTILITIES COMMISSION** INFRASTRUCTURE DIVISION ENGINEERING MANAGEMENT BUREAU

45TH AVE, 46TH AVE, 47TH AVE, VICENTE ST, WAWONA ST, AND SLOAT BLVD SEWER REPLACEMENT LEGEND, ABBREVIATIONS. **GENERAL NOTES AND DETAILS** FOR SEWER WORK

NONE

SW-G1

3 OF 44

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

HYD PROJECT NO. 1070I

0

121,450