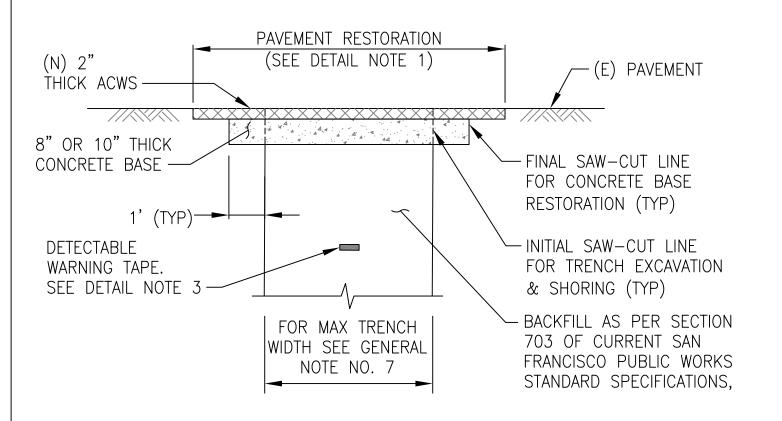
LEGEND **ABBREVIATIONS** PLUS OR MINUS SIZE & TYPE EXISTING SEWER OR CULVERT AMERICAN ASSOCIATION OF STATE EXISTING MH HIGHWAY AND TRANSPORTATION OFFICIALS ACWS ASPHALT CONCRETE WEARING SURFACE ۵,E3 EXISTING CB. SWI APPROX APPROXIMATE EXISTING CB W/ CURB INLET Û AVE AVENUE EXISTING SIDE SEWER (SS) AND AIR VENT AUXILIARY WATER SUPPLY SYSTEM SIZE & TYPE BLVD BOULEVARD NEW SEWER OR CULVERT BRICK 0 NEW MH PER SEDPW STD PLAN 87.181 CB CATCHBASIN СН CHANGE NEW MH PER SFDPW STD PLAN 87,182 CIPL CURED IN-PLACE LINER NEW ANGLE MH PER SFDPW STD PLAN 87,182 CONC CONCRETE CENTER TO CENTER 0 REPLACE (E) MH PER SFDPW STD PLAN 87,181 DET DETAIL DIA OR Ø DIAMETER MORTAR (E) MH DUCTILE IRON PIPE ABANDON EXISTING MH DRAWING EAST REMOVE FXISTING MH (E) **EXISTING** EL ELEVATION EXISTING MH EQ EQUAL HETCH HETCHY WATER POWER HORIZONTAL NEW MH INSIDE DIAMETER INV INVERT ISP IRON STONE PIPE MORTAR (E) MH LF LINEAR FEET MAX MAXIMUM **MANHOLE** REPLACE EXISTING MH MINIMUM NORTH ABANDON EXISTING MH NEW NIC NOT IN CONTRACT NO. NUMBER REMOVE EXISTING MH NTS NOT TO SCALE OC ON CENTER OCS OVERHEAD CONTACT SYSTEM NEW CB PER SFDPW STD PLAN 87.188 OD OUTSIDE DIAMETER PROPERTY LINE ABANDON (E) CB REINFORCED CONCRETE NEW SS PER SFDPW STD PLAN 87,196 REINFORCED CONCRETE PIPE RIGHT OF WAY NEW 6" OR 8" SS CONNECTION TO MAIN SEWER SOUTH SF SQUARE FEET PLUG EXISTING FACILITIES S.F. SAN FRANCISCO PLUG AND FILL EXISTING FACILITIES 1///// SAN FRANCISCO FIRE DEPARTMENT SAN FRANCISCO DEPARTMENT APPROXIMATE PAVEMENT SURFACE /// OF PUBLIC WORKS SLOPE (N) DIRECTION OF FLOW SPECS SPECIFICATIONS SIDE SEWER (LATERAL) ST STREET STANDARD SWI STORM WATER INLET THRU THROUGH (TYP) TYPICAL **VERT** VERTICAL VCP VITRIFIED CLAY PIPE WEST WITH W/O WITHOUT

GENERAL NOTES

- 1. NUMBER AND LOCATIONS OF SIDE SEWER CONNECTIONS ARE APPROXIMATE. CONTRACTOR SHALL VFRIFY SIDE SEWER CONNECTIONS IN THE FIELD.
- 2. ALL GROUND SURFACE ELEVATIONS AND INVERT ELEVATIONS TO BE CONFORMED ARE APPROXIMATE.
- 3. ELEVATIONS ARE IN REFERENCE TO S.F. CITY DATUM. S.F. CITY DATUM IS APPROXIMATELY 11.35 FEET HIGHER THAN NAVD88 DATUM.
- 4. 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.
- 5. AT THE TIME THIS CONTRACT IS BID. THE CONTRACTOR SHALL POSSESS A STATE OF CALIFORNIA CLASS "A" GENERAL ENGINEERING CONTRACTOR'S LICENSE.
- 6. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN EXCAVATION PERMIT FROM SFDPW-STREET CONSTRUCTION COORDINATION CENTER LOCATED AT 49 SOUTH VAN NESS AVENUE, SUITE 200.
- 7. MAXIMUM TRENCH WIDTH SHALL BE THE LARGER OUTSIDE DIMENSION OF THE NEW OR EXISTING SEWER/STRUCTURE PLUS 1.5 FEET ON EACH SIDE.
- 8. ALL NEW VCP MAIN SEWERS SHALL BE CONSTRUCTED ON CRUSHED ROCK BEDDING PER DETAIL SHOWN BELOW UNLESS OTHERWISE NOTED.
- 9. PIPE LENGTH SHOWN IN PROFILE INDICATES HORIZONTAL DISTANCE EXCLUDING INSIDE DIMENSION OF EACH SEWER MANHOLE/STRUCTURE.

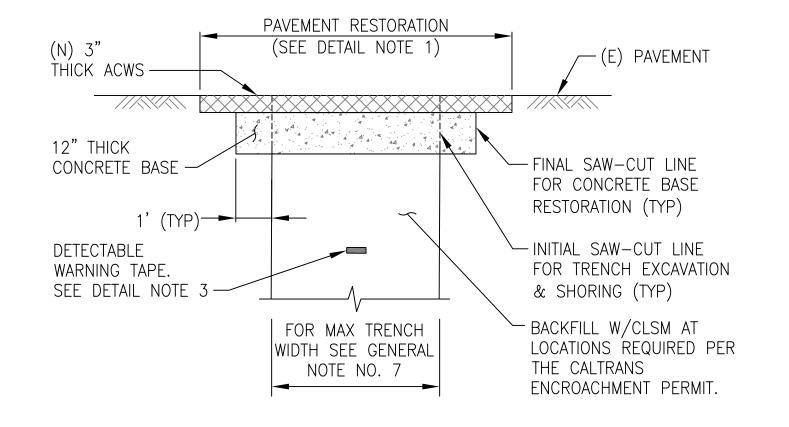
- 10. AFTER SEWER WORK. PAVING AND CURB RAMP HAS BEEN COMPLETED. THE CONTRACTOR SHALL CLEAN ALL CATCHBASINS SHOWN ON SW-DRAWINGS AND REPLACE CAST IRON WATER TRAP AS DIRECTED BY THE CITY REPRESENTATIVE.
- 11. CONTRACTOR SHALL PROTECT ALL SURVEY MONUMENTS AND BENCHMARKS LOCATED WITHIN THE CONTRACT LIMIT. 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.
- 12. 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.
- 13. RIM ELEVATIONS OF PROPOSED SEWER MANHOLES SHALL CONFORM TO FINISHED ROADWAY ELEVATIONS.
- 14. SIDE SEWER SHALL BE CONNECTED TO THE MAIN AT OR ABOVE THE SPRING LINE UNLESS OTHERWISE DIRECTED BY THE CITY REPRESENTATIVE.
- 15. UNLESS SHOWN OTHERWISE ON THE SW-DWGS. THE SIDE SEWER TO BE REPLACED SHALL BE CONSTRUCTED ALONG THE SHORTEST DISTANCE FROM CURB TO MAIN SEWER WHERE POSSIBLE.



DETAIL NOTES:

- 1. LIMITS OF FINAL ACWS SHALL BE AS DELINEATED PER R-DRAWINGS.
- 2. PER EXCAVATION REGULATIONS, 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



DETAIL NOTES:

- 1. LIMITS OF FINAL ACWS SHALL BE AS DELINEATED PER R-DRAWINGS.
- 2. PER EXCAVATION REGULATIONS, 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 ON CALTRANS ROW

CONTRACT NO. 10035454

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

PAUL AVE, WOOLSEY ST AND SALINAS AVE PAVEMENT RENOVATION AND SEWER REPLACEMENT

LEGEND, ABBREVIATIONS, GENERAL NOTES

SAN FRANCISCO PUBLIC WORKS BUREAU OF ENGINEERING AND DETAILS FOR SEWER WORK REFERENCE INFORMATION & FILE NO. OF SURVEYS SECTION MANAGER
L.WONG

July 10-7 12/08/2020

DRAWN
A.MOMBENI 12/2020 CHECKED/APPROVED F.CISNEROS 12/2020 ACTING BUREAU MANAGER
I.DHAPA PAGE 12/22/2020 D.CHAN 12/2020 No. C73132 Exp.12/31/2020 CIVIL OF CALIFORN 28 of 39 SW-G1 117,497 REVISIONS

CITY AND COUNTY OF SAN FRANCISCO

NONE