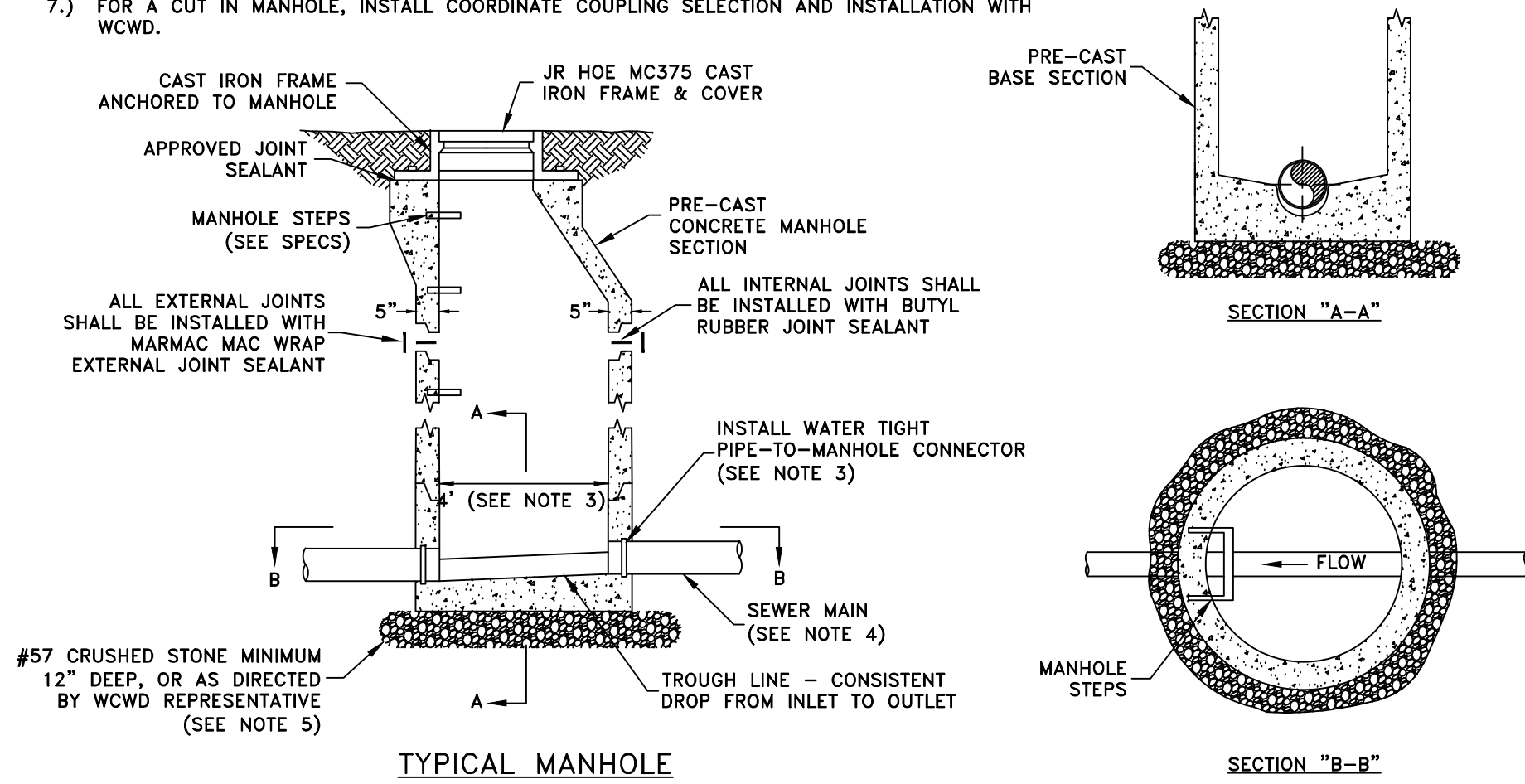
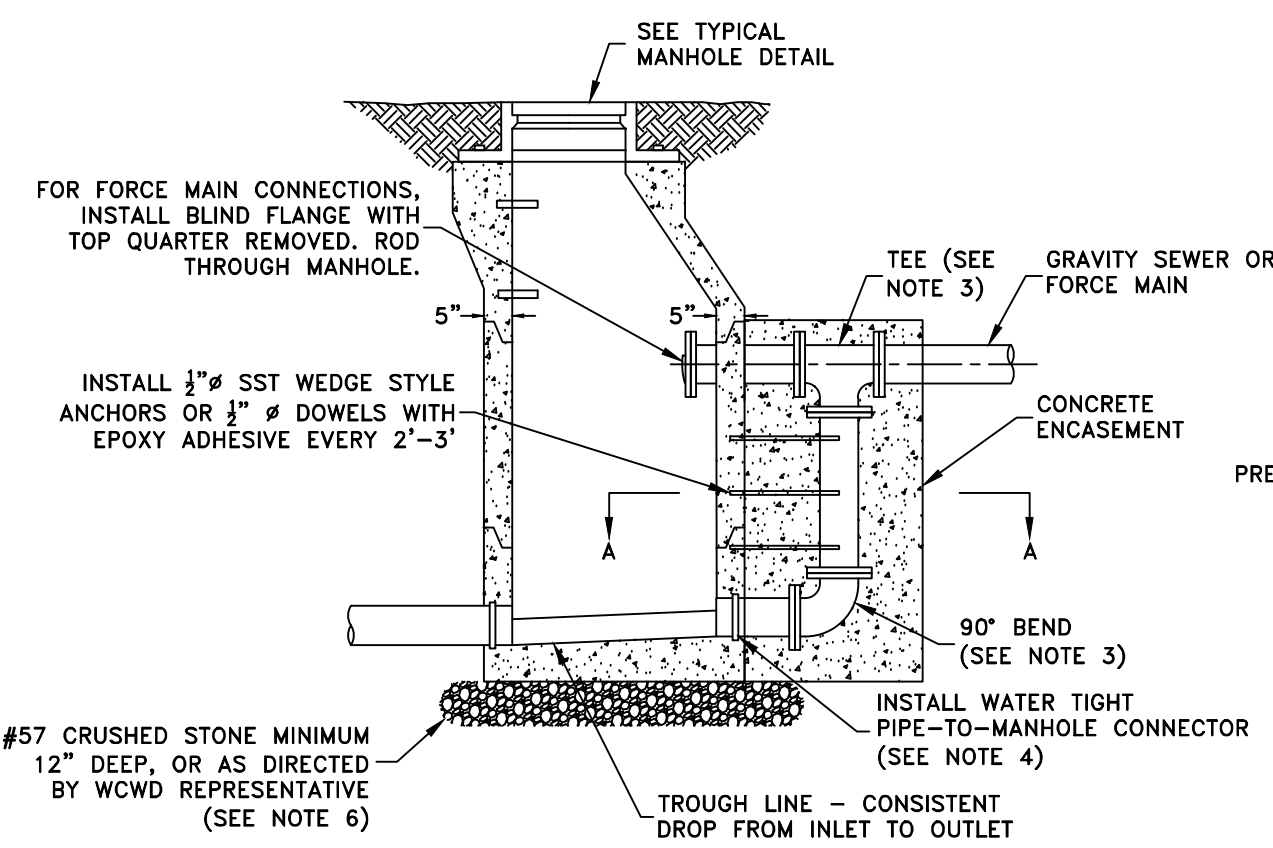


- NOTES:
- 1.) WHILE INSTALLING NEW SEWER MAINS, THE PROPOSED SEWER SHALL REMAINED PLUGGED TO PREVENT INFILTRATION TO EXISTING SEWER UNTIL ACCEPTED BY WCWD.
 - 2.) NO MORE THAN TWO CONCRETE GRADE RINGS SHALL BE USED UNDER CAST IRON FRAME.
 - 3.) INSTALL A-LOK PREMIUM GASKETS ON NEW CONSTRUCTION. INSTALL FLEXIBLE PIPE-TO-MANHOLE CONNECTOR WITH STAINLESS STEEL WEDGE STYLE BAND WHEN TYING TO EXISTING MANHOLES.
 - 4.) FOR SEWER PIPES LARGER THAN 21" IN DIAMETER, COORDINATE MANHOLE DESIGN WITH WCWD.
 - 5.) IF STRUCTURES ARE PROPOSED TO BE INSTALLED IN DISTURBED SOIL, COORDINATE WITH WCWD FOR DESIGN TO PREVENT SETTLING ISSUES.
 - 6.) IF MANHOLE IS INSTALLED IN A ROADWAY, BACKFILL WITH 100% CRUSHED STONE.
 - 7.) FOR A CUT IN MANHOLE, INSTALL COORDINATE COUPLING SELECTION AND INSTALLATION WITH WCWD.

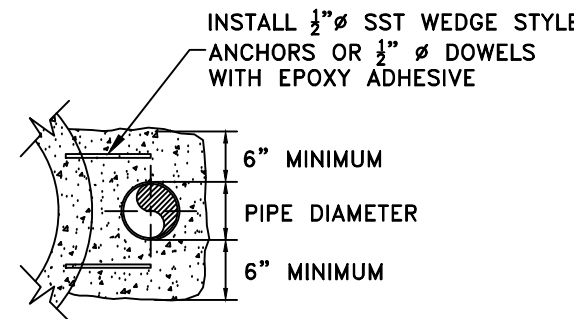


TYPICAL MANHOLE

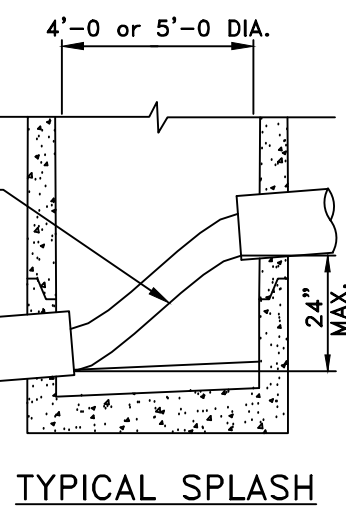
- NOTES:
- 1.) WHILE INSTALLING NEW SEWER MAINS, THE PROPOSED SEWER SHALL REMAINED PLUGGED TO PREVENT INFILTRATION TO EXISTING SEWER UNTIL ACCEPTED BY WCWD.
 - 2.) FOR NEW CONSTRUCTION, ALL PRECAST STRUCTURES SHALL MEET ASTM C-478.
 - 3.) FOR FIELD FABRICATED EXTERNAL DROP CONNECTIONS:
FORCE MAIN CONNECTIONS: ALL FITTINGS SHALL BE FBE COATED DUCTILE IRON GRAVITY SEWER: GASKETED PVC FITTINGS MAY BE UTILIZED.
 - 4.) INSTALL A-LOK PREMIUM GASKETS ON NEW CONSTRUCTION. INSTALL FLEXIBLE PIPE-TO-MANHOLE CONNECTOR WITH STAINLESS STEEL WEDGE STYLE BAND WHEN TYING TO EXISTING MANHOLES.
 - 5.) WHEN CONNECTING FORCE MAIN INTO A MANHOLE, CORROSION PREVENTION COATING SHALL BE INSTALLED ON THE CONNECTING MANHOLE AND THE NEXT TWO DOWNSTREAM MANHOLES OR AS DIRECTED BY WCWD.
 - 6.) IF STRUCTURES ARE PROPOSED TO BE INSTALLED IN DISTURBED SOIL, COORDINATE WITH WCWD FOR DESIGN TO PREVENT SETTLING ISSUES.
 - 7.) IF MANHOLE IS INSTALLED IN A ROADWAY, BACKFILL WITH 100% CRUSHED STONE.



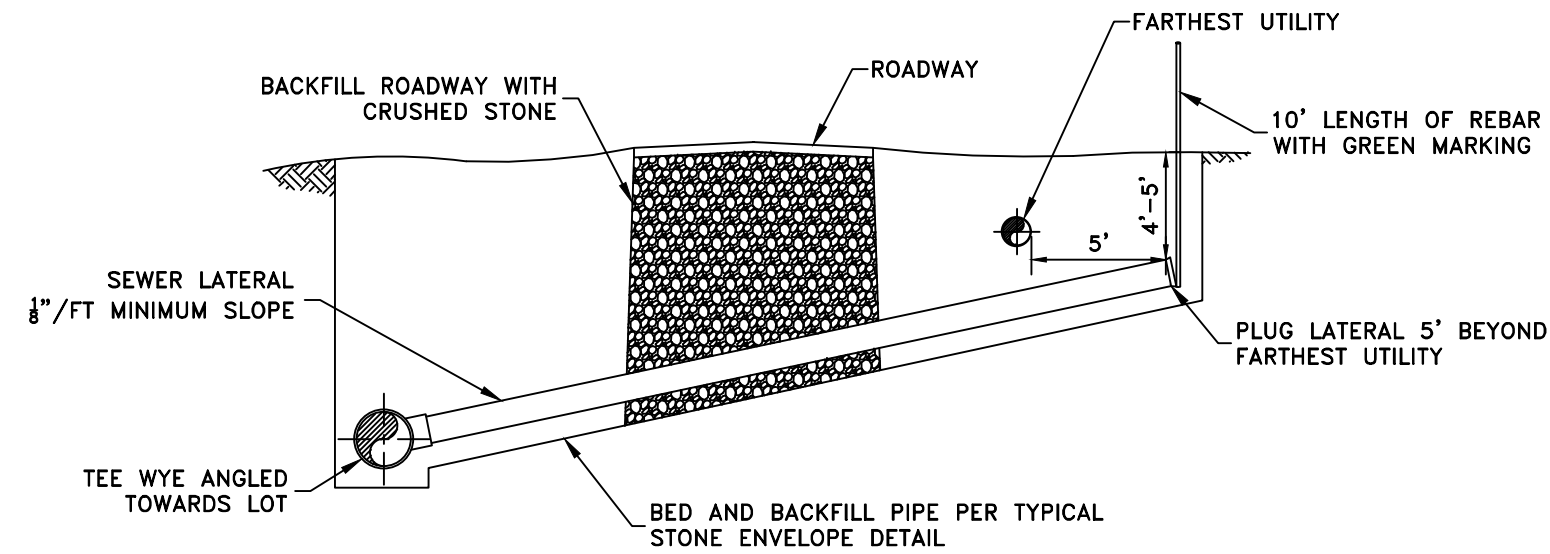
EXTERNAL DROP MANHOLE
(FOR USE WHERE SPECIFIED ON PLANS)



SECTION "A-A"

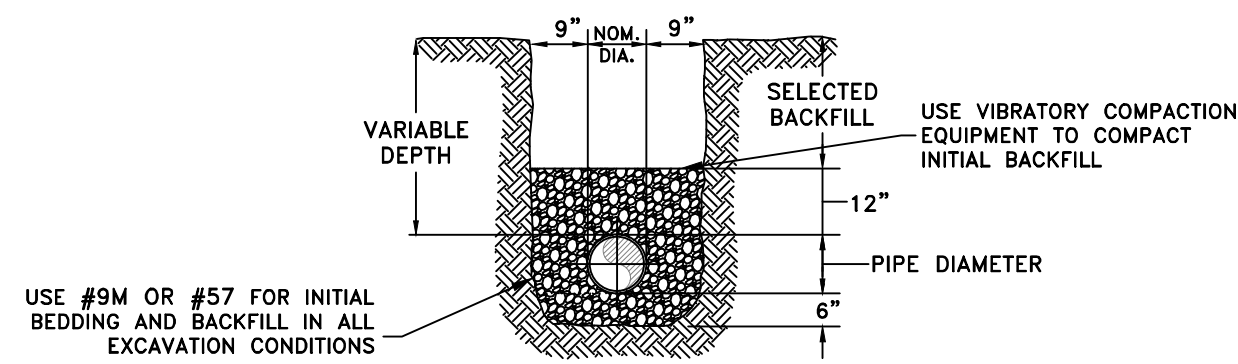


TYPICAL SPLASH



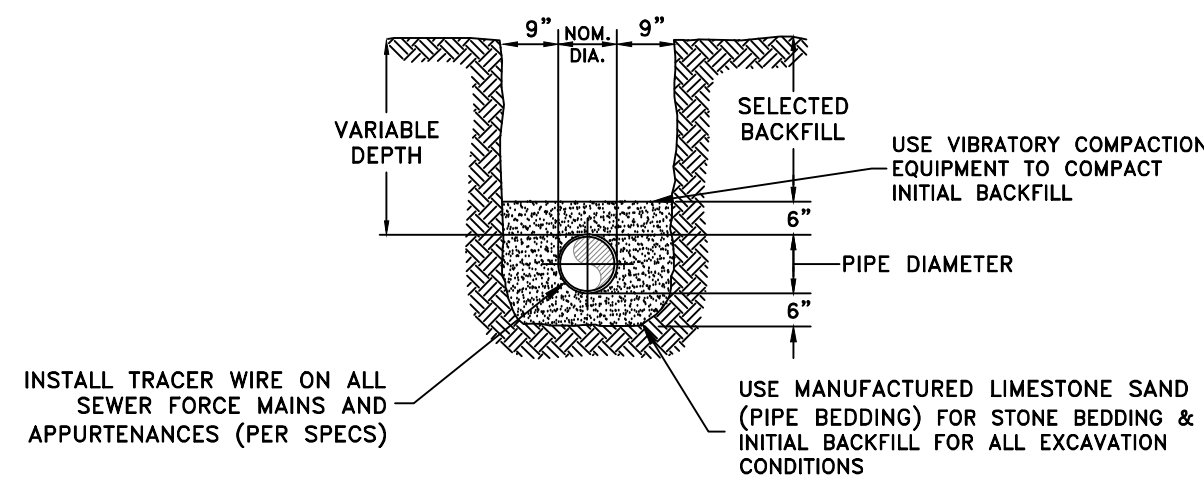
TYPICAL SEWER SERVICE
LATERAL "LONG SIDE"

- NOTES:
- 1.) WHEN INSTALLING SEWER MAIN UNDER A ROADWAY, PIPE SHOULD BE BEDDED AND BACKFILLED WITH 100% #9M OR #57 STONE TO SUBGRADE OR BY 48" OF #9M OR #57 STONE AND COMPACTED SOIL TO SUBGRADE IF APPROVED BY CCPC.

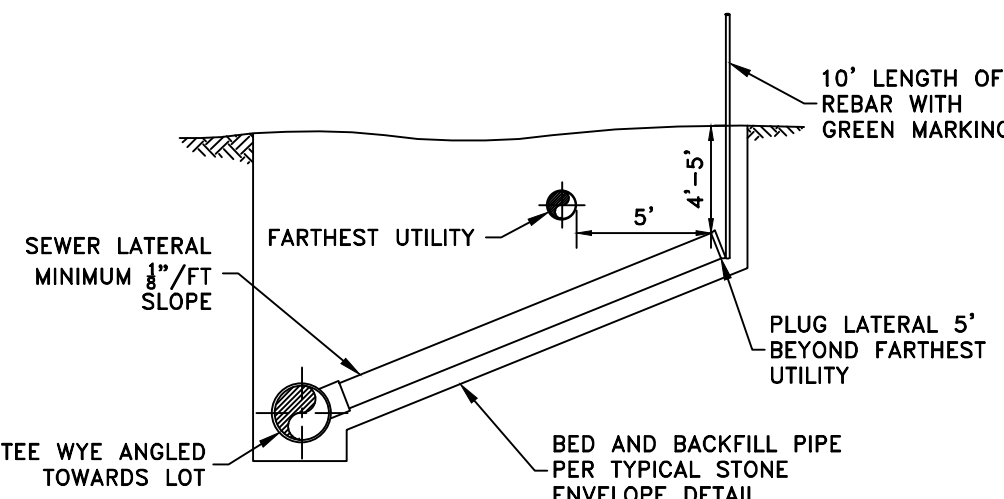


TYPICAL STONE ENVELOPE - SEWER

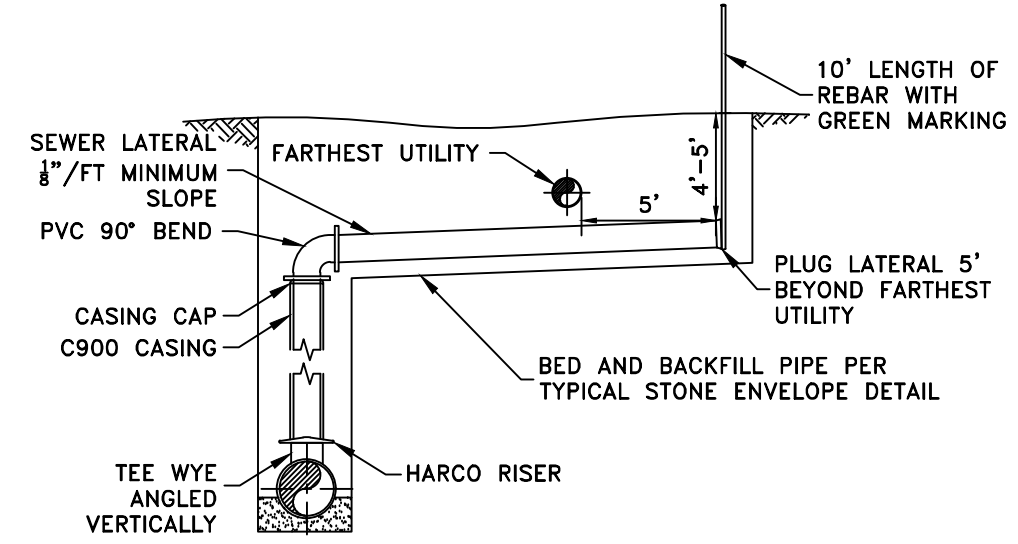
- NOTES:
- 1.) WHEN INSTALLING FORCE MAIN UNDER A ROADWAY, PIPE SHOULD BE BEDDED AND BACKFILLED WITH 100% #9M OR #57 STONE TO SUBGRADE.



TYPICAL STONE ENVELOPE - FORCE MAIN

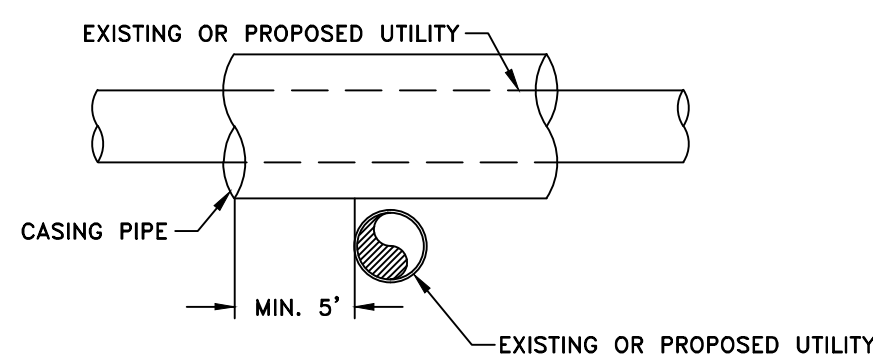


TYPICAL SEWER SERVICE
LATERAL "SHORT SIDE"



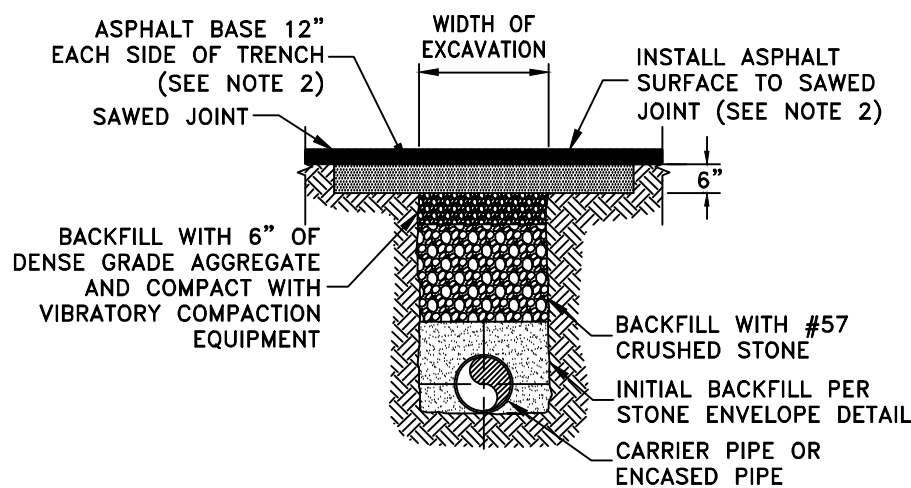
DEEP SEWER SERVICE
DETAIL

- NOTES:
- 1.) IF A VERTICAL SEPARATION OF 18" CANNOT BE ACHIEVED BETWEEN ANY TWO UTILITY CROSSINGS DUE TO SITE CONSTRAINTS, STEEL OR PVC CASING SHALL BE UTILIZED DOWN TO A MINIMUM SEPARATION OF 6". THE LENGTH OF CASING SHALL BE ADEQUATE TO SPAN THE TRENCH OF THE UTILITY BEING CROSSED. SPACERS AND END CAPS ARE NOT NECESSARY, BUT THE ENDS OF THE CASING SHOULD BE SEALED WITH SPRAY FOAM.



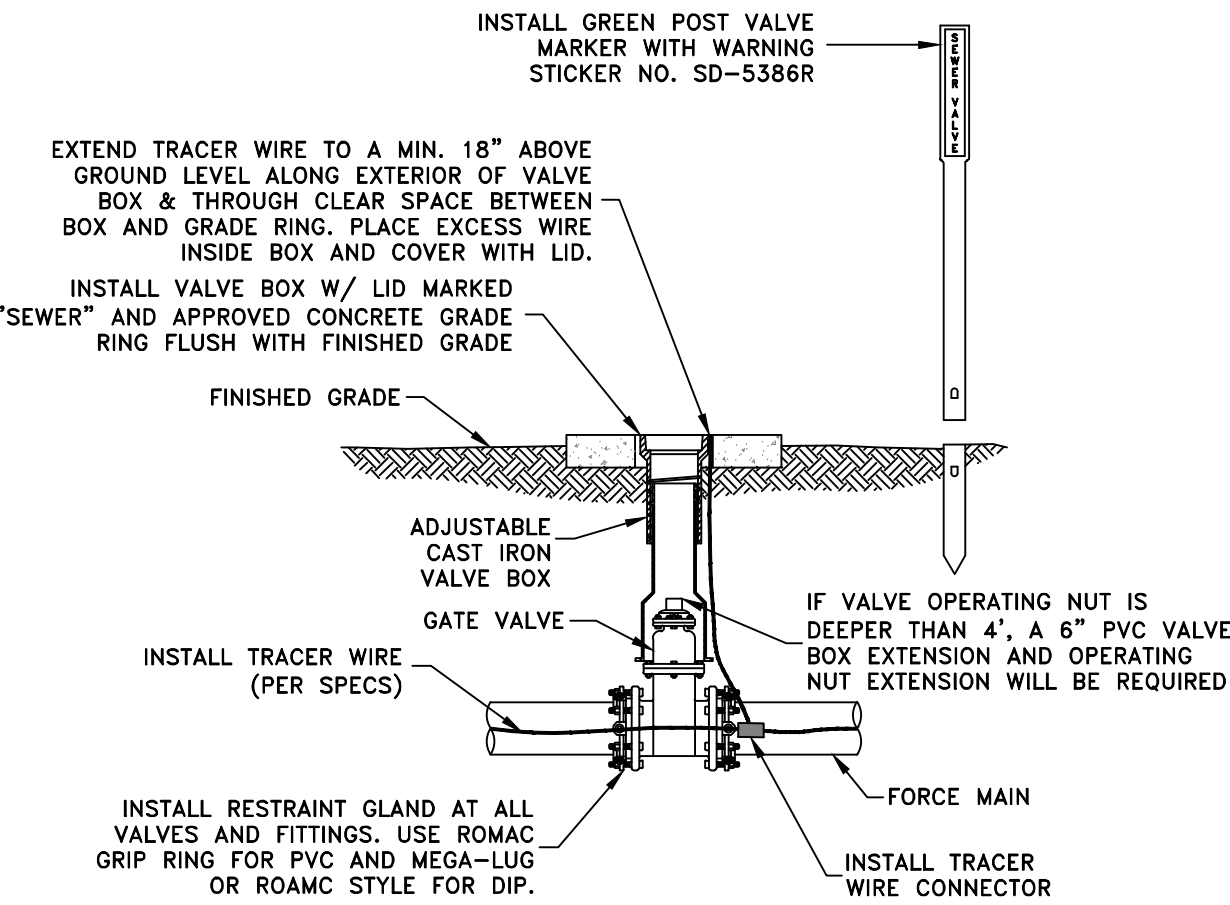
TYPICAL UTILITY CROSSING

- NOTES:
- 1.) FOR BOTH CONCRETE AND ASPHALT PAVEMENT REPAIR, REFERENCE BOWLING GREEN PUBLIC WORKS STREET REPAIR METHOD DETAIL OR COORDINATE WITH GOVERNING ROAD AGENCY.
 - 2.) FOR CONCRETE PAVEMENT, REPLACE WITH A CONTINUOUS SLAB FROM SUB-BASE TO SURFACE.

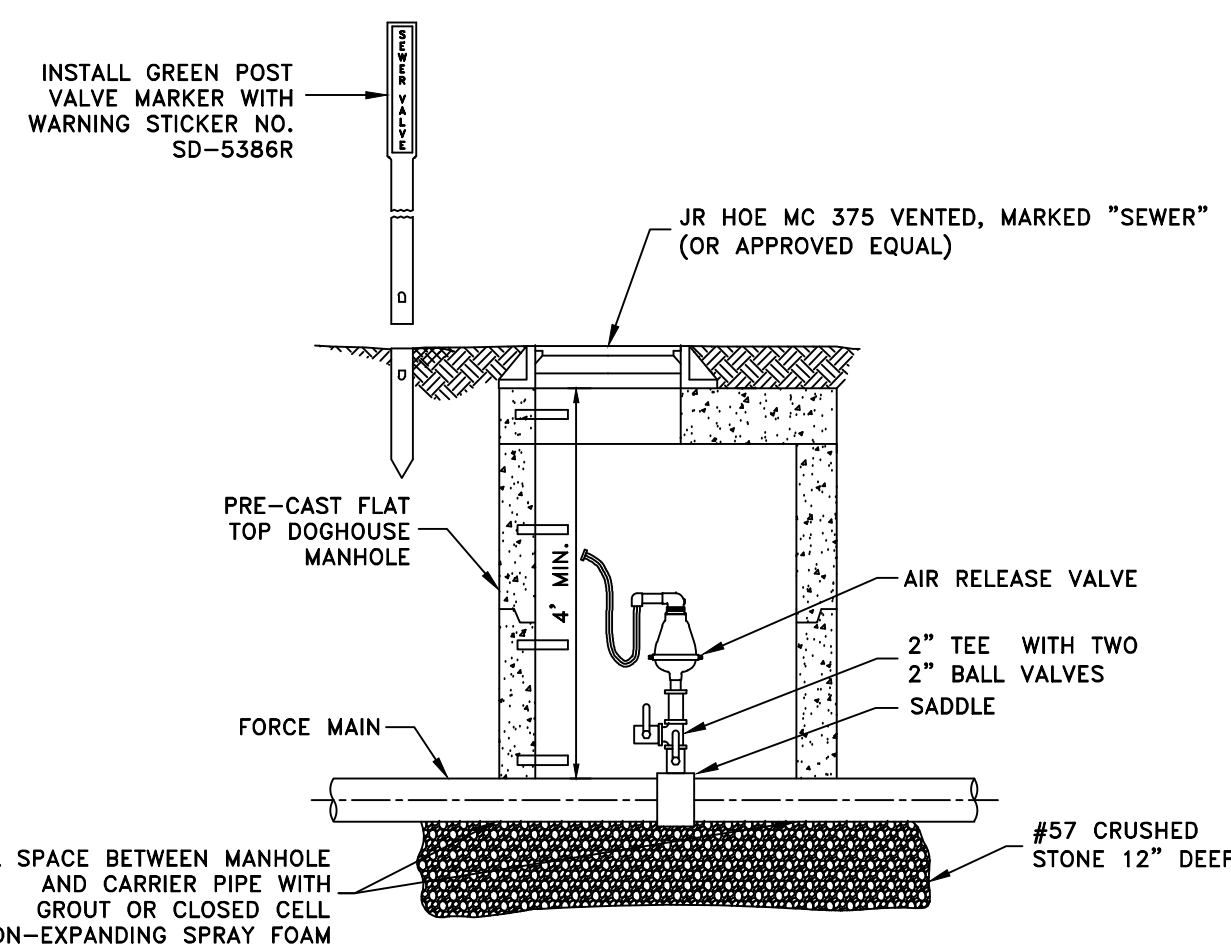


SURFACE RESTORATION
(FOR CROSSING OF ALL STREETS & HIGHWAYS)

- NOTES:
- 1.) VALVE INSTALLATIONS SHALL BE BEDDED AND BACKFILLED WITH CRUSHED STONE.



TYPICAL IN-LINE VALVE
INSTALLATION



STANDARD AIR RELEASE
STATION - FORCE MAIN

