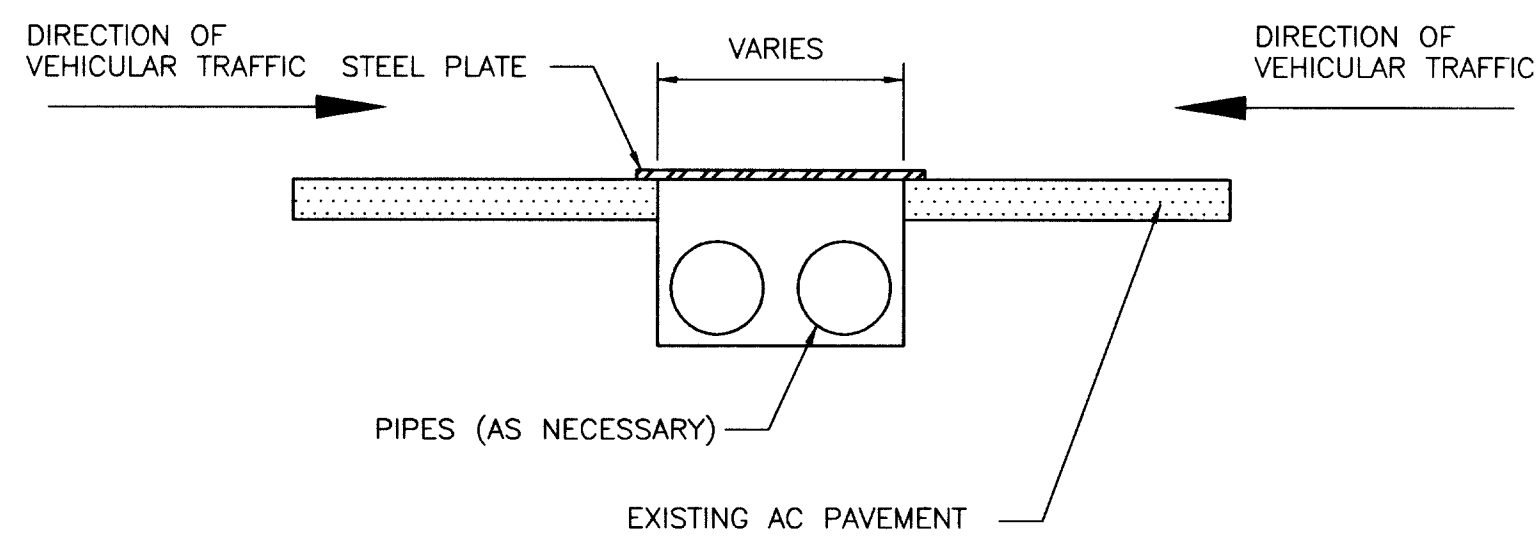
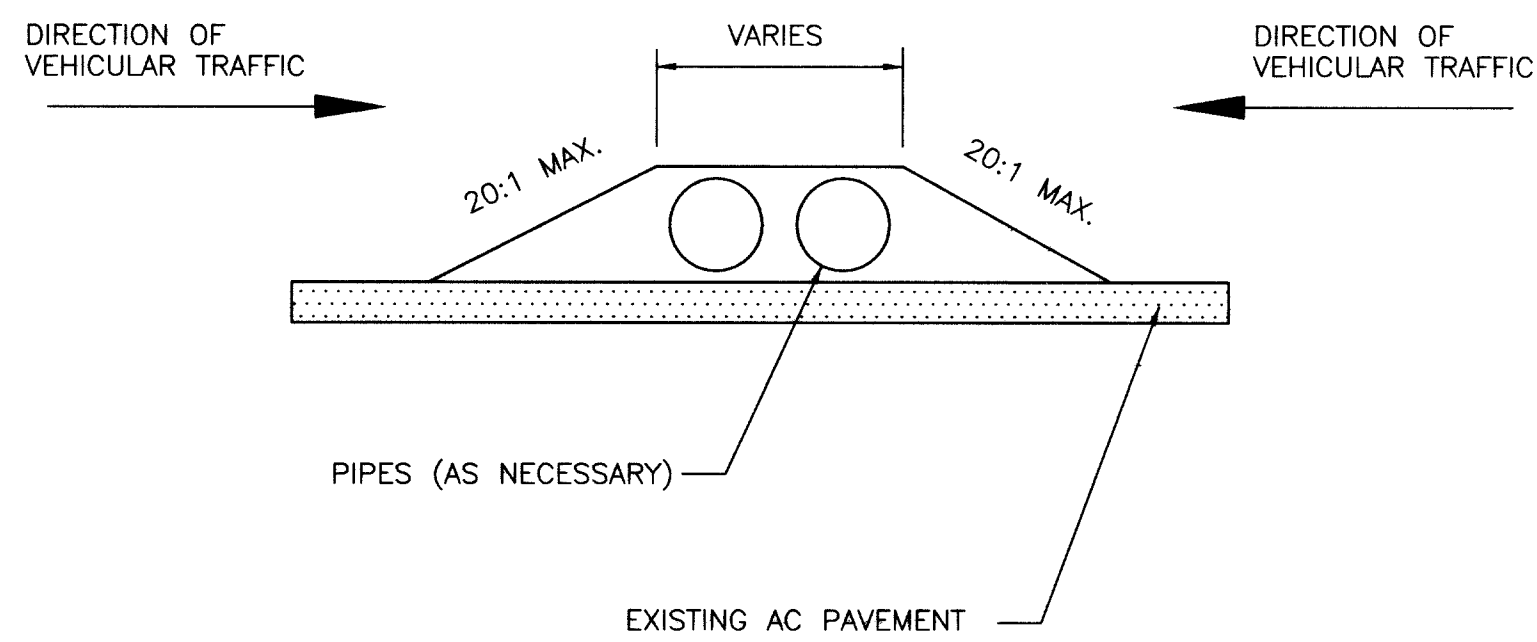


CASE 1—FOR SPEEDS > 25 MPH

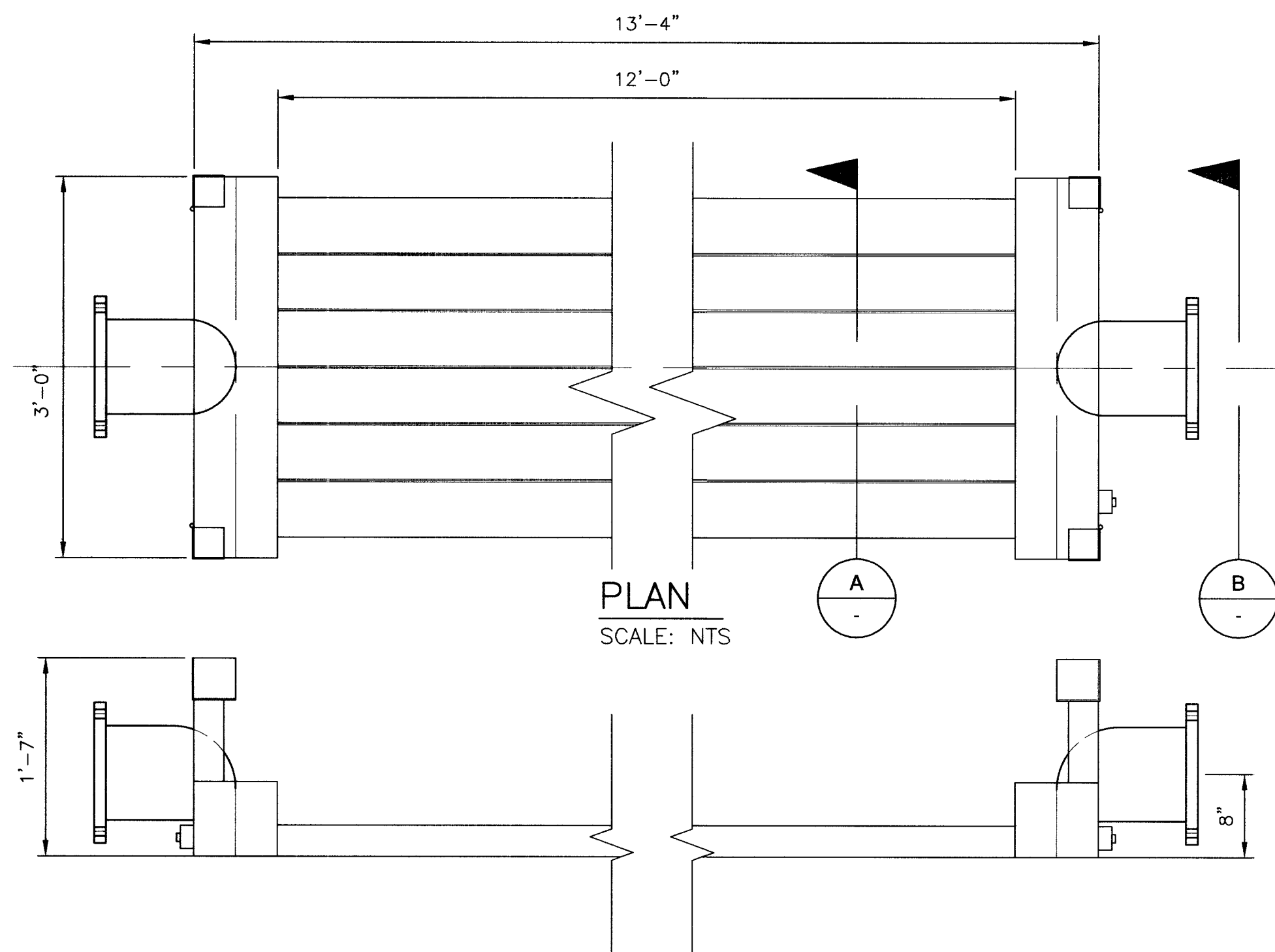


CASE 2—FOR SPEEDS ≤ 25 MPH



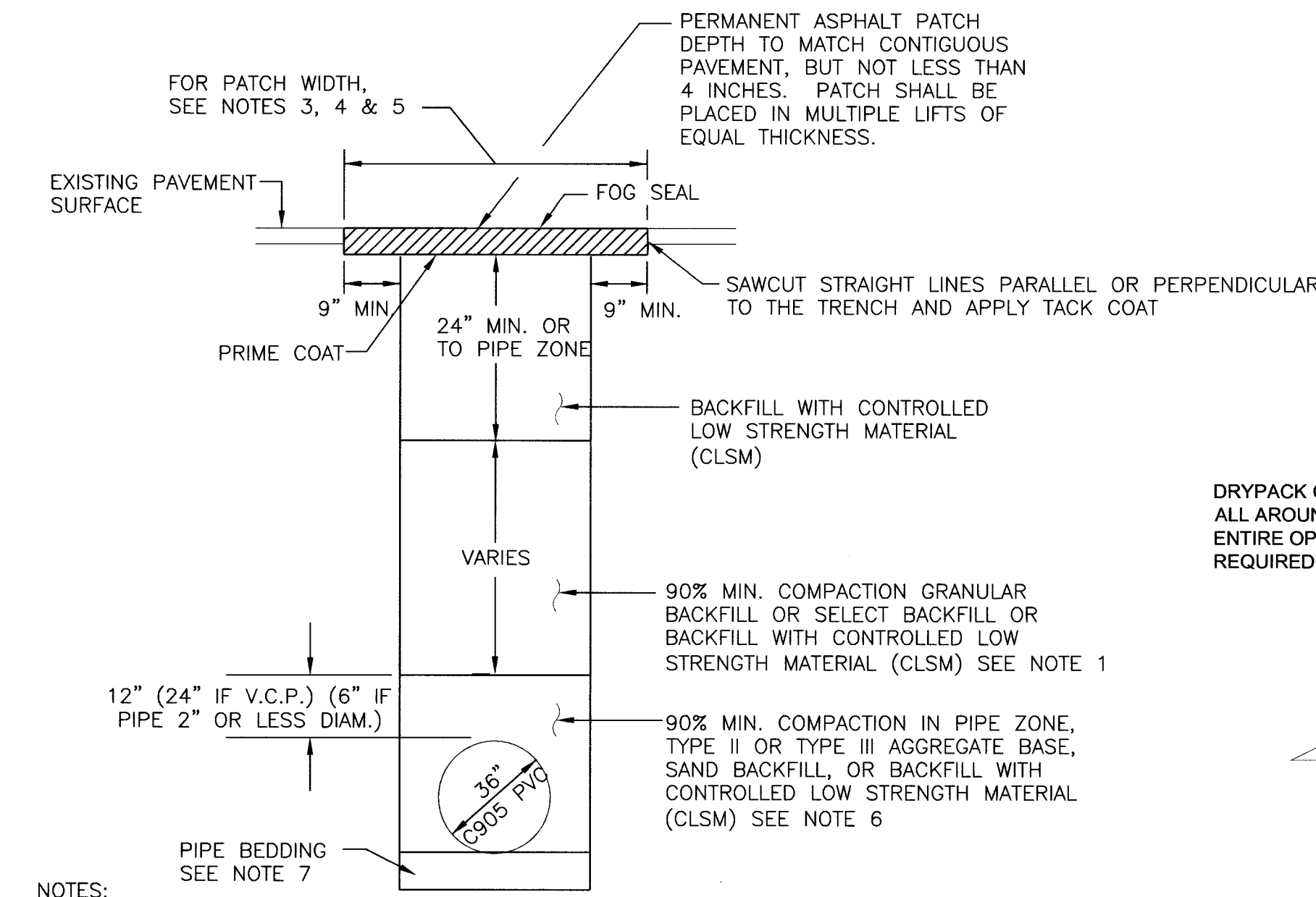
CASE 3—FOR SPEEDS ≤ 25 MPH

BYPASS PIPING DETAILS PERPENDICULAR TO TRAFFIC FLOW
DETAIL
SCALE: NTS

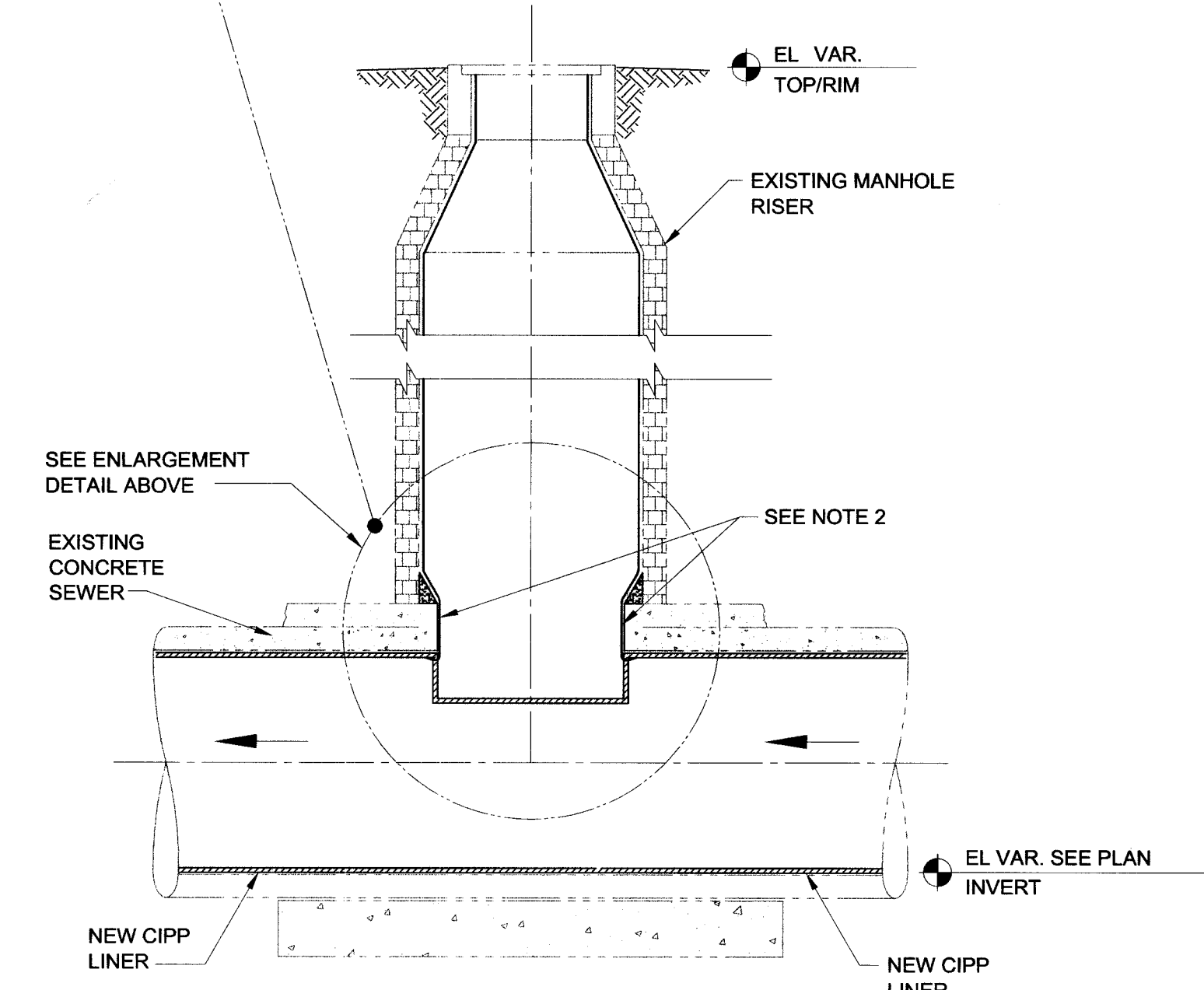
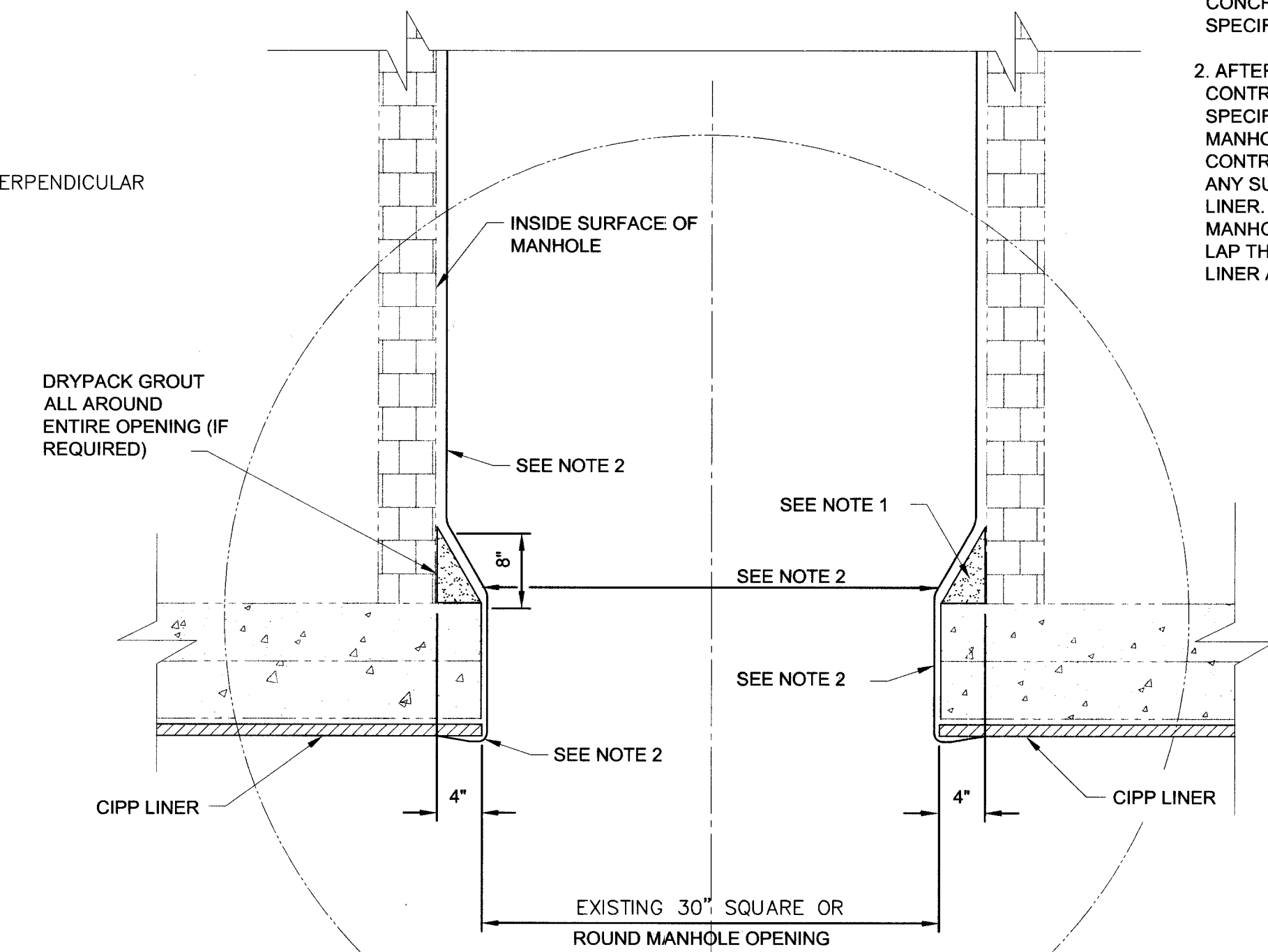


8" ROAD RAMP 12' WIDE CROSSING
SCALE: NTS

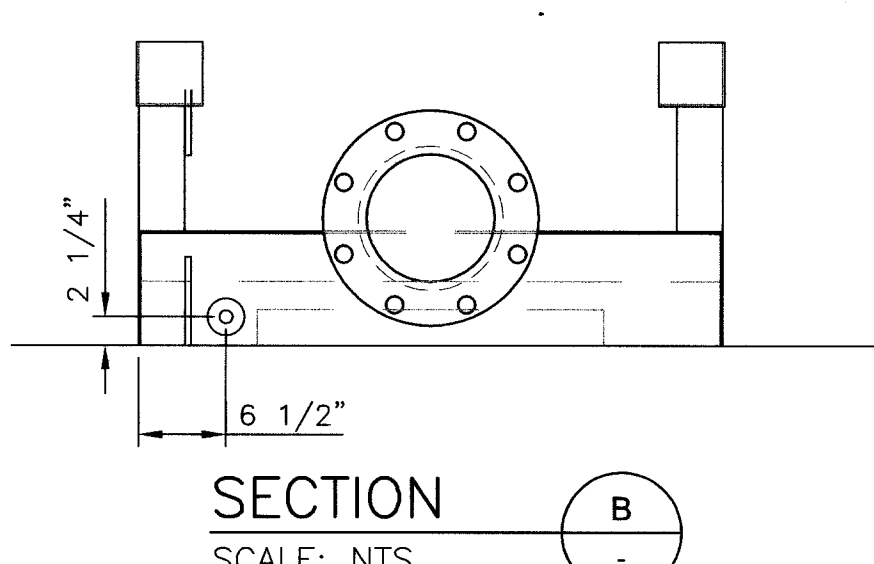
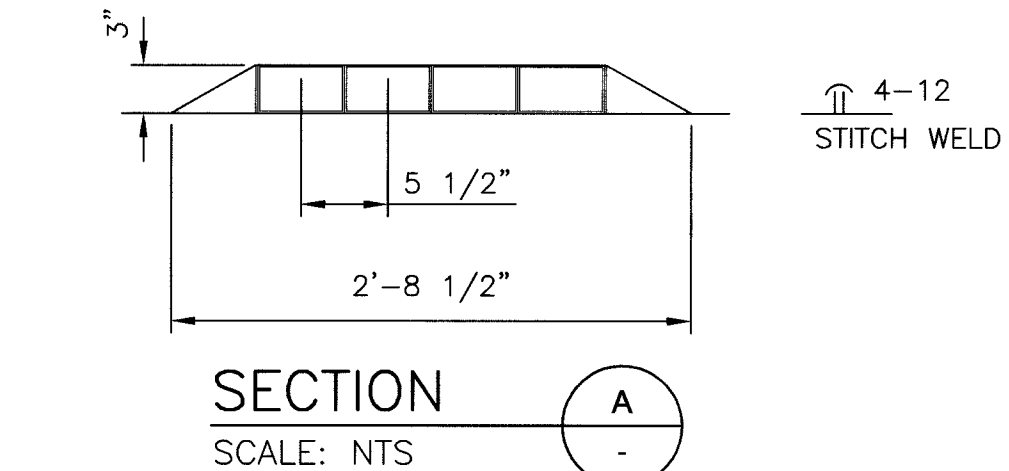
CLARK COUNTY STANDARD TRENCH SECTION #504
SCALE: NTS



- NOTES:
- NO STONES OR LUMPS GREATER THAN 3" PERMITTED IN TRENCH 2' OR LESS IN WIDTH.
 - IF SAWCUT IS WITHIN THREE FEET OF EDGE OF EXISTING ASPHALT CONCRETE SURFACE OR OTHER PATCH, REMOVE EXISTING PAVEMENT TO THAT EDGE AND REPLACE ENTIRE SECTION.
 - TRANSVERSE PATCHES SHALL BE WIDTH (4 FEET MINIMUM) SUFFICIENT TO ACCOMMODATE MECHANICAL PLACEMENT, ROLLING AND COMPACTION PER UNIFORM STANDARD SPECIFICATION SECTION 401.03.11.
 - LONGITUDINAL PATCHES SHALL BE ONE TRAVEL LANE IN WIDTH; SAWCUTS ARE TO BE MADE AT THE EDGE OF THE TRAVEL LANE.
 - FOR CONDUIT TRENCHES 6 INCHES WIDE OR LESS WITHIN 2 FEET OF THE CURB, PATCHES SHALL EXTEND A MINIMUM OF 4 FEET FROM LIP OF GUTTER AND PAVEMENT SHALL BE REMOVED TO CURB AND GUTTER; WIDTH SHALL BE SUFFICIENT TO ACCOMMODATE MECHANICAL PLACEMENT USING AGENCY APPROVED SPREADER BOX OR PAVING MACHINE, ROLLING AND COMPACTION PER UNIFORM STANDARD SPECIFICATION SECTION 401.03.11. SAWCUT SHALL NOT BE PLACED IN WHEEL PATH AREA.
 - TRENCH WIDTH, BEDDING, AND PIPE ZONE REQUIREMENTS FOR UTILITY INSTALLATIONS SHALL CONFORM TO THE RESPECTIVE AGENCY REQUIREMENTS.
 - CRUSHED ROCK MAY BE USED FOR PIPE BEDDING ONLY IF MATERIAL USE HAS BEEN SPECIFICALLY APPROVED BY THE GOVERNING AGENCY. SEE STANDARD DRAWING NO. 505 FOR PIPE BEDDING METHODS.
 - LAS VEGAS VALLEY WATER DISTRICT REQUIRES PIPE BEDDING AND BACKFILL WITHIN THE PIPE ZONE TO BE OF THE SAME MATERIAL.



REHABILITATION OF EXISTING MANHOLES
SCALE: NTS



- GENERAL NOTES:
- CONTRACTOR SHALL GROUT UP 8" ABOVE PIPE, (IF LEDGE IS PRESENT) AND THEN COAT THE EXPOSED CONCRETE AND REINFORCING STEEL WITH COATING AS SPECIFIED IN SPECIFICATION SECTION 644.
 - AFTER INSTALLING CIPP LINING IN THE SEWER, THE CONTRACTOR SHALL INSTALL A COATING SYSTEM AS SPECIFIED IN SECTION 644, TO ALL NON-LINED MANHOLES AND TO THE LIMITS AS SHOWN. THE CONTRACTOR SHALL INSTALL THE COATING SYSTEM ON ANY SURFACE OF THE PIPE NOT LINED BY THE CIPP LINER. THE COATING SHALL BE 1/4" THICK ON THE MANHOLE SURFACE. THE CONTRACTOR SHALL THEN OVER LAP THE COATING 4 INCHES ON TOP OF THE CIPP LINER AS SHOWN TO SEAL.

DATE	
REVISIONS	
LINE SIZE INCHES (IF NOT 2" SCALE ACCORDINGLY)	
DESIGNED: G. GOULD	DATE:
DRAWN: E. CHRISTENSON	DATE:
CHECKED:	DATE:
CHECKED:	DATE:
PROJECT MANAGER: _____ SUBMITTED: _____ APPROVED: _____	
CITY OF LAS VEGAS - DEPARTMENT OF PUBLIC WORKS BONANZA, PECOS & STEWART SEWER REHABILITATION TYPICAL DETAILS	
BROWN AND CALDWELL 4425 W. SPRING MOUNTAIN ROAD, SUITE 225 LAS VEGAS, NEVADA 89102 (702) 938-4080	
DRAWING NO. D7 26 307V866	

BID NO. 05.1730.03