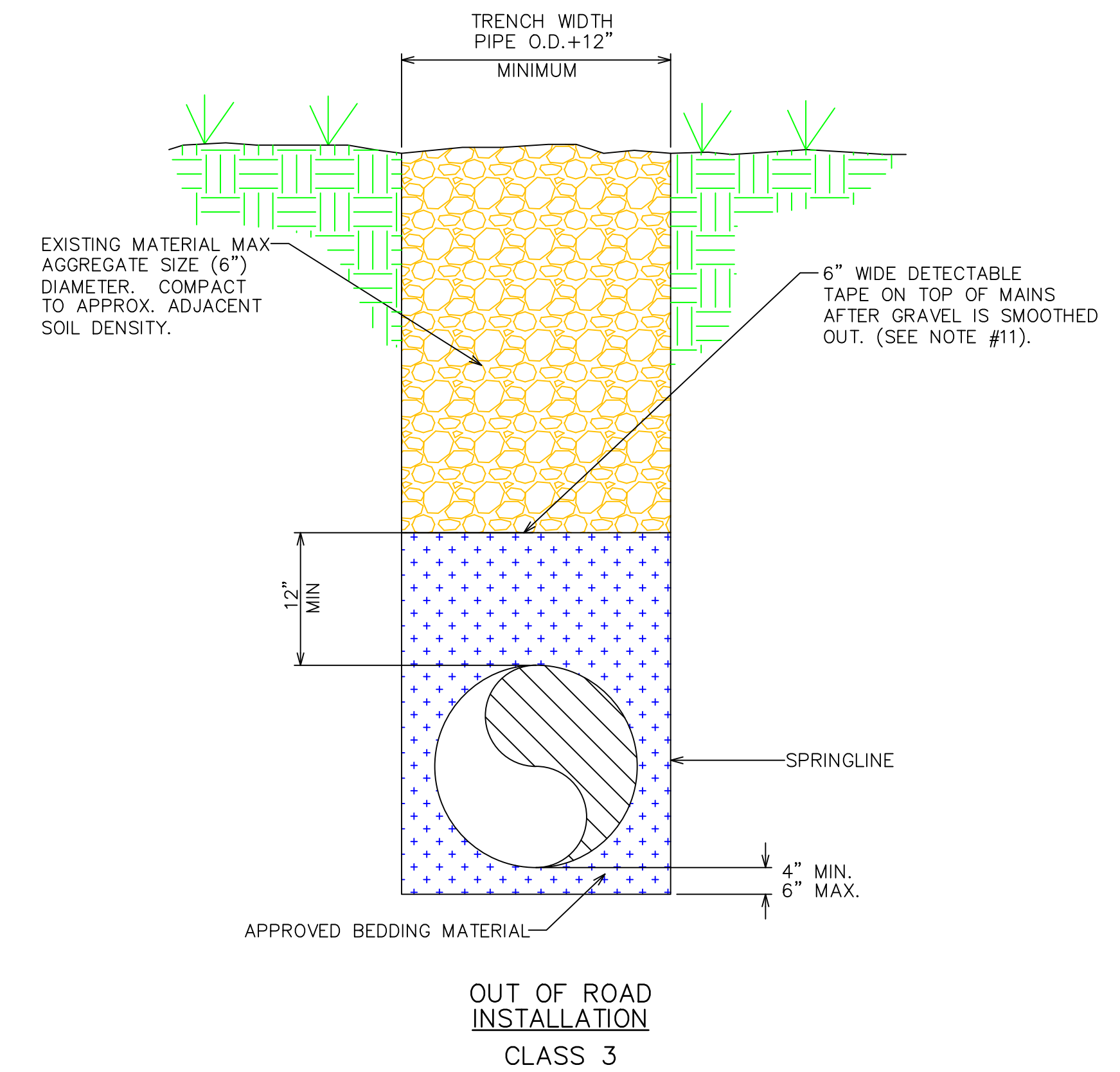
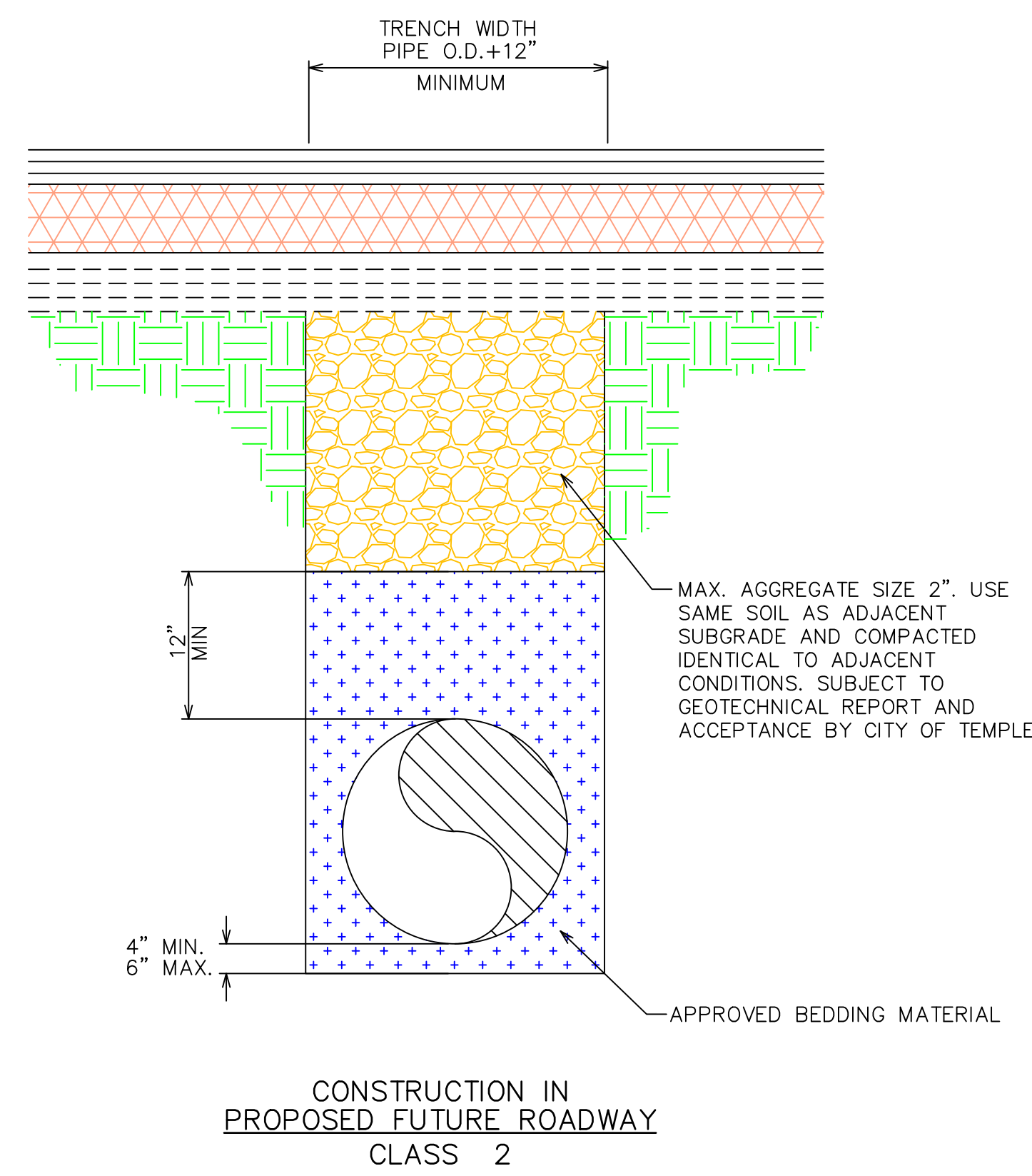
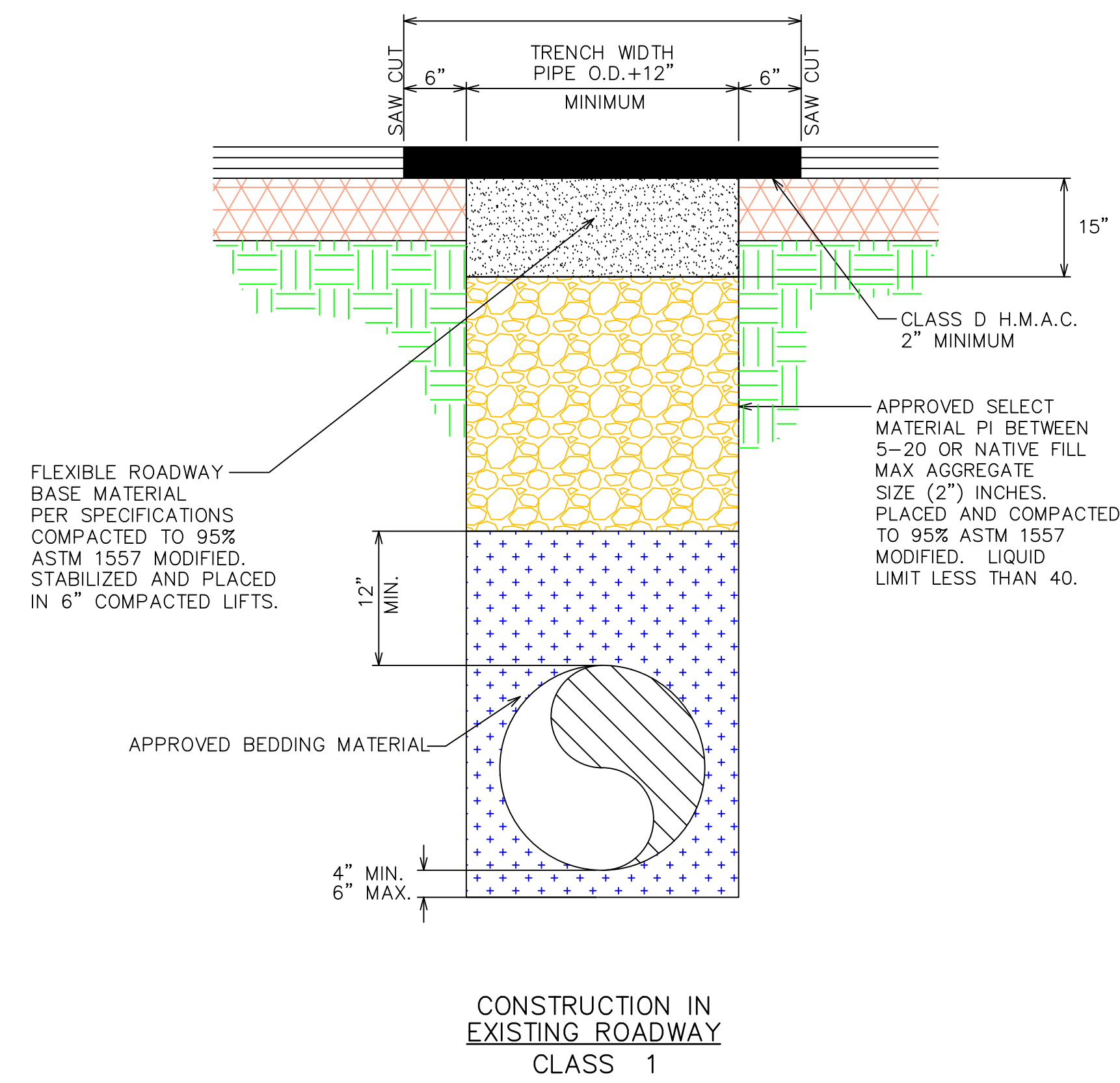


- BEDDING MATERIAL SPECIFICATIONS:**
- ALL AGGREGATES SHALL BE CLEAN AND DURABLE PARTICLES.
  - CLEAN, WASHED SAND SHALL CONFORM TO THE FOLLOWING GRADATION:
 

SIEVE	% PASS
3/8"	100
No. 4	95-100
No. 16	50-85
No. 200	0-5
  - WASHED OR SCREENED GRAVEL SHALL CONFORM TO THE FOLLOWING GRADATION:
 

SIEVE	% PASS
1/2"	100
3/8"	80-100
No. 4	15-70
No. 10	0-10
  - WHERE GROUNDWATER IS ENCOUNTERED, GRAVEL SHALL BE USED FOR BEDDING MATERIAL.
  - BEDDING MATERIAL SHALL BE PLACED AND CONSOLIDATED TO ELIMINATE VOIDS.
  - MANUFACTURERS RECOMMENDATIONS FOR BEDDING MATERIALS SHALL BE CONSIDERED.
  - WASTEWATER LINES REQUIRE GRAVEL TO BE USED AS BEDDING MATERIAL.



**NOTES:**

- SAW CUT TO REPAIR ASPHALT OR CONCRETE PAVEMENT AND PRIOR TO OPENING THE DITCH
- "ROADWAY" = B/C TO B/C + 4" IN EACH DIRECTION
- TRENCH WIDTHS SHOWN ARE MINIMUM FOR PROPER PLACEMENT AND COMPACTION OF EMBEDMENT
- THE MINIMUM CLEAR WIDTH OF TRENCH (SHEETED OR UNSHEETED) MEASURED AT SPRINGLINE OF PIPE SHALL BE 12" GREATER THAN THE OUTSIDE DIAMETER OF THE PIPE
- WHERE PIPE INSTALLATION IS IN ROCK (OR OTHER INCOMPRESSIBLE FOUNDATION), THE CONTRACTOR SHALL EXCAVATE SO AS TO PROVIDE A MINIMUM OF 8" GRANULAR CUSHION BENEATH THE PIPE
- INSTALLATION OF ANY PIPE WITHIN 4' OF THE BACK OF CURB OR EDGE OF STREET, SHALL REQUIRE THE SAME EMBEDMENT AS FOR INSTALLATION IN STREETS.
- CONTRACTOR SHALL SHAPE EMBEDMENT MATERIAL TO ACCOMMODATE THE BELLED JOINTS OF PIPES TO INSURE SUPPORT THROUGHOUT THEIR LENGTH. BELLED JOINTS SHALL HAVE A MINIMUM OF 2" OF FILL BENEATH THEM.
- IF EXCAVATED MATERIAL IS NOT ACCEPTABLE TO THE ENGINEER FOR BACKFILL, CONTRACTOR WILL PROVIDE SELECT IMPORT MATERIAL AS REQUIRED.
- FOR TRENCHING, BEDDING, AND BACKFILL, SEE TCEQ CHAPTER 317.2 "BEDDING".
- FOR ROCK AND OTHER CONDITIONS NOT SPECIFIED HERE, REFER TO ENGINEER FOR BACKFILL DESIGN.
- GREEN TAPE TO BE USED FOR WASTEWATER MAINS, BLUE TAPE TO BE USED FOR WATER MAINS.