

NOMINALPIPE DIAMETER (INCHES)	NARROW TRENCH WIDTH MIN. (INCHES)
3	18
4	18
6	18
8	24
10	30
12	36
15	39
18	42
21	45
24	48

- 1. PAVEMENT FINISH SURFACE SHALL BE A SMOOTH CONTINUATION OF ADJOINING PAVED SURFACE.
- 2. PIPELINE BEDDING MATERIAL, TRENCH BACKFILL MATERIAL, AND COMPACTION SHALL COMPLY WITH THE SOIL REPORT.
- 3. BEDDING MATERIALS CONSISTING OF SAND, GRAVEL, OR CMB SHOULD BE USED TO BACKFILL AROUND UTILITY PIPES TO APPROXIMATELY ONE FOOT ABOVE THE TOP OF THE PIPE. ONSITE SOILS WHICH HAVE A SAND EQUIVALENT (SE) OF 30 OR GREATER CAN ALSO BE USED AS BEDDING MATERIAL. NO MORE THAN 30% OF BACKFILL VOLUME SHOULD BE LARGER THAN 34". PRIOR TO PLACING THE PIPES, THE PIPE TRENCH SUBGRADE SHOULD BE OBSERVED BY A REPRESENTATIVE OF THE PROJECT GEOTECHNICAL ENGINEER. IN THE LARGEST DIMENSION. IMPORTED BACKFILL SHOULD BE APPROVED BY PROJECT GEOTECHNICAL CONSULTANT PRIOR TO DELIVERY AT THE SITE.
- 4. IT IS RECOMMENDED THAT UTILITY TRENCHES ARE NOT BE OR PLACED PARALLED TO AND BELOW A 1½:1 PLANE PROJECTED DOWN FROM THE BASE OF THE OUTER EDGE OF A CONVENTIONAL FOUNDATION.
- 5. IF THE EXPOSED SUBGRADE IS LOOSE OR UNSTABLE, THE UNSUITABLE SUBGRADE SOIL MUST BE EXCAVATED AND REPLACED WITH BEDDING MATERIAL. BEDDING MUST BE PLACED UNIFORMLY ON EACH SIDE OF THE PIPE AND MECHANICALLY COMPACTED.
- 6. FLOODING OR JETTING TO DENSIFY THE BEDDING MATERIALS IS NOT ALLOWED DUE TO THE CLAYEY NATURE OF ONSITE SOILS.
- 7. THE BACKFILL FOR THE REMAINING PORTION OF THE TRENCH ABOVE THE PIPES SHOULD BE PLACED IN LOOSE LIFTS NOT TO EXCEED 8 INCHES, MOISTURE-CONDITIONED WITHIN OPTIMUM AND 2 PERCENT ABOVE OPTIMUM MOISTURE CONTENT, AND MECHANICALLY COMPACTED TO AT LEAST 95 PERCENT RELATIVE COMPACTION IN ACCORDANCE WITH ASTM D1557. THINNER LIFTS MAY BE NECESSARY TO ACHIEVE THE RECOMMENDED LEVEL OF COMPACTION OF THE BACKFILL DUE TO EQUIPMENT LIMITATIONS.
- 8. THE HIGHER COMPACTION IS REQUIRED FOR FILL MATERIAL THAT HAS LESS THAN FIFTEEN PERCENT (15%) OF THE MATERIAL FINER THAN 0.005MM.
- 9. TRENCHES IN PAVEMENT AREAS SHOULD BE CAPPED WITH AT LEAST 12 INCHES OF COMPACTED, ON-SITE SOIL SIMILAR TO THAT OF THE ADJOINING SUBGRADE. THE UPPER 12 INCHES OF TRENCH BACKFILL IN AREAS TO BE
- 10. PAVED SHOULD BE COMPACTED TO AT LEAST 95 PERCENT RELATIVE COMPACTION. SPECIAL CARE SHOULD BETAKEN IN THE CONTROL OF UTILITY TRENCH BACKFILLING IN THE PAVEMENT AREAS.
- 11. PIPELINE BEDDING MAY BE LEAN CONCRETE CONSISTING OF TWO SACKS OF PORTLAND CEMENT PER CUBIC YARD OF SLURRY IN LEIU OF SAND AS LONG AS SLURRY IS VIBRATED IN PLACE.
- 12. MINIMUM COVERAGE OF UTILITIES IS 36-INCHES. IF THIS CANNOT BE ATTAINED, CAP WITH 1-SACK CONCRETE SLURRY. IN PAVING AREAS, BACKFILL TRENCHES WITH SLURRY UP TO BOTTOM OF PAVING. IN LANDSCAPE AREAS, SLURRY IS ALLOWED UP TO TWO-FEET BELOW GRADE.
- 13. PROVIDE METALLIC WARNING TAPE 12-INCHES BELOW GRADE ABOVE UTILITIES.



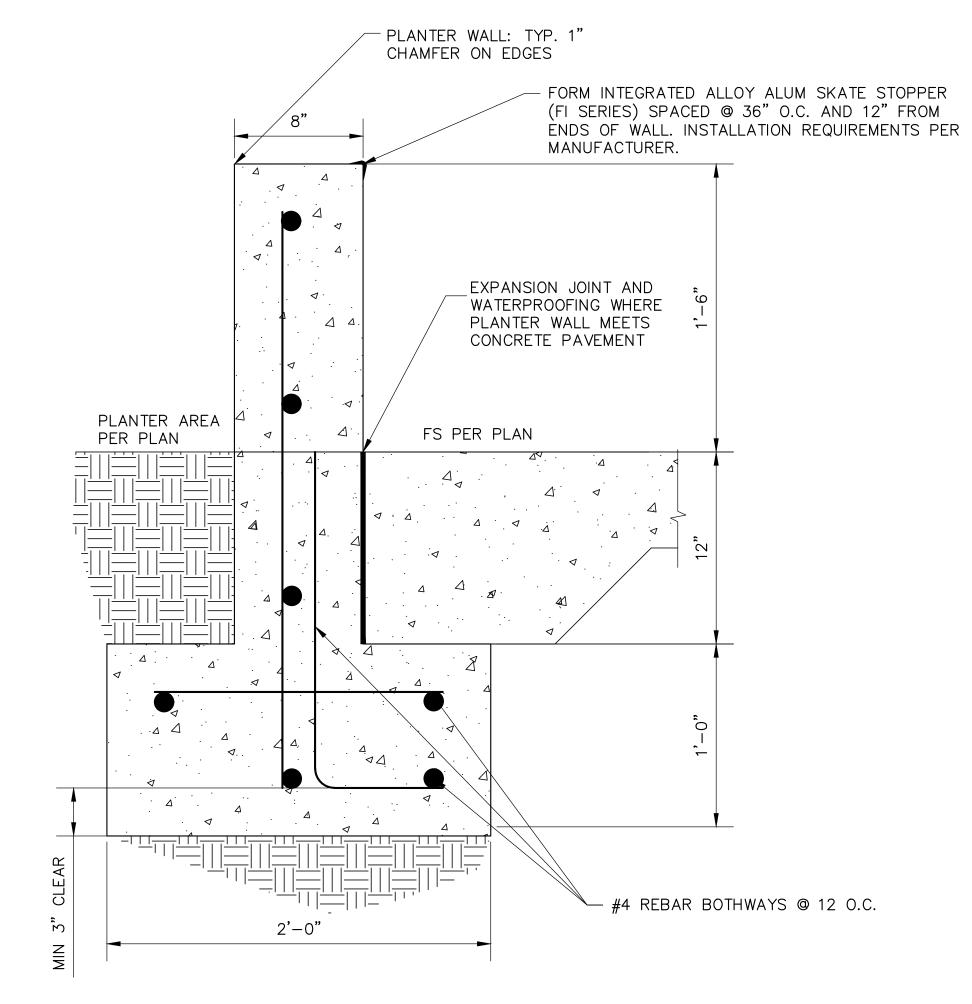
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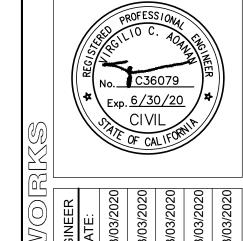
CURB PER DETAIL 3-ON SHEET C502

PARKWAY DRAIN PER-CITY OF LOS ANGELES

PLAN S-320-0

- 1. PROVIDE 8" MIN DIAMETER FOR STENCIL.
- 2. STENCIL IN BLUE PAINT NEAR ALL CATCH BASIN DRAINS TO READ "NO DUMPING, DRAINS TO OCEAN"L.A.M.C
- 3. STENCILS MAY BE PURCHASED AT F.J. SMITH SALES CO. 6815 E. WASHINGTON BLVD. COMMERCE, CA 90040 PHONE-(323) 728-0227 FAX -(323) 728-2443 http://www.fismith.com/contact.html

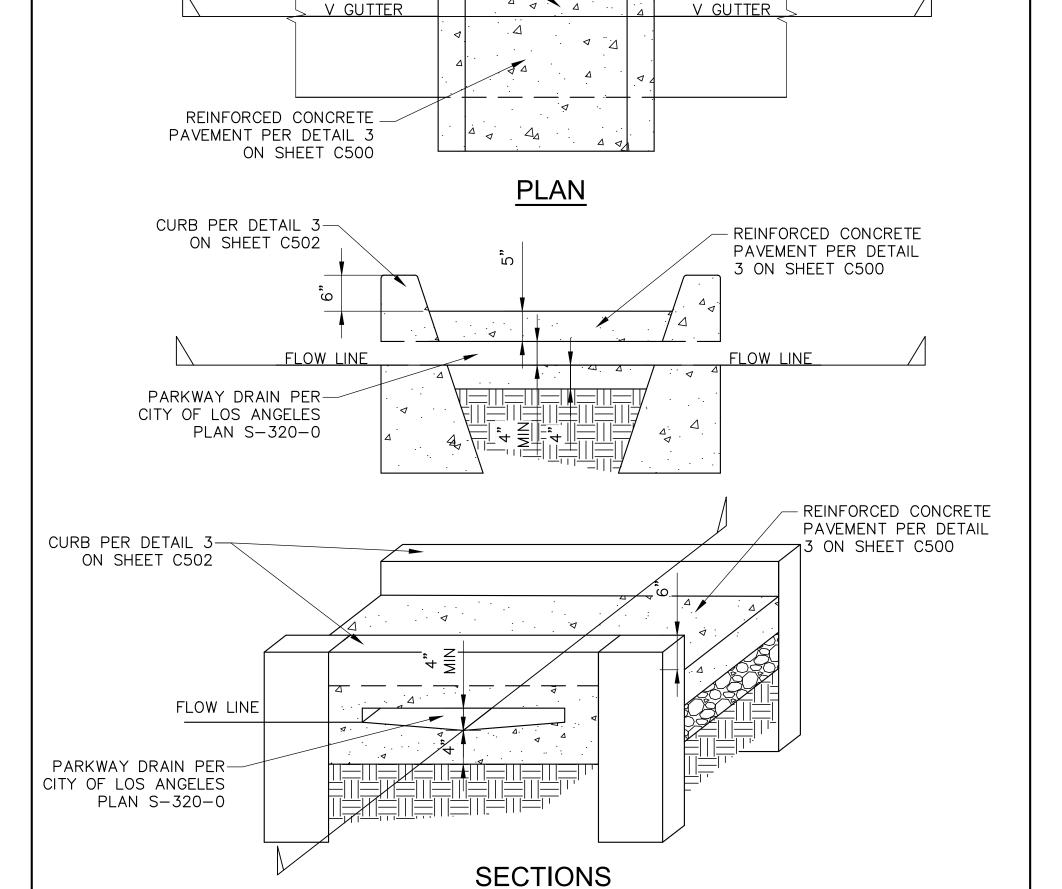




EERING

3 LOW PLANTER WALL DETAIL NO DUMPING STENCIL SCALE: NOT TO SCALE SCALE: NOT TO SCALE WALKWAY

V GUTTER



¾" RADIUS-#4 REBAR CONTINUOUS

#E170517 PLAN FILE NO.

ENLARGED PARKWAY DRAIN CURB DETAIL

O SHEETS PLOTTED: 09/18/2019 1:00:00 PM

BEDDING DETAIL SCALE: NOT TO SCALE

SCALE: NOT TO SCALE

MOWSTRIP DETAIL SCALE: NOT TO SCALE