



## GENERAL NOTES:

1. TYPICAL 2' COVE GUTTER SECTION SHALL BE MINIMUM OF EIGHT (8") INCHES DEPTH (THROUGHOUT COVE GUTTER SECTION) PORTLAND CEMENT CONCRETE POURED TWO (2') FEET WIDE WITH A ONE (1") INCH DEPRESSION (VALLEY) THROUGH THE CENTER AS SHOWN ABOVE.
2. CONTRACTION JOINTS SHALL BE PLACED EVERY TEN (10') FEET AND SHALL BE ONE-FOURTH ( $\frac{1}{4}$ ) THE CONCRETE THICKNESS OR A MINIMUM OF ONE (1") INCH DEEP.
3. EXPANSION JOINTS OF ONE-HALF ( $\frac{1}{2}$ " INCH MASTIC MATERIAL SHALL BE PLACED AT THE FOLLOWING LOCATIONS:
  - 3.1. P.C.S AND P.T.S OF CURVES.
  - 3.2. GRADE BREAKS.
  - 3.3. NO CLOSER THAN FOUR (4') FEET ON EITHER SIDE OF A DRAINAGE STRUCTURE, BUT NOT REQUIRED OR RECOMMENDED.
  - 3.4. AT OTHER LOCATIONS AS SPECIFIED BY CITY ENGINEER.
  - 3.5. EXPANSION JOINTS MAY BE ELIMINATED FOR EXTRUDED CURB WITH APPROVAL OF CITY ENGINEER.
4. REINFORCING BAR (REBAR) SHALL BE #4 ( $\frac{1}{2}$ " EPOXY COATED, THREE (3) EACH, EQUALLY SPACED (EIGHT (8") INCHES TYPICAL) WITH A MINIMUM THREE (3") INCHES) OF CONCRETE COVER. REINFORCING BAR (REBAR) SHALL BE PLACED AND SUPPORTED WITH APPROVED REBAR SUPPORTS.
7. MINIMUM GUTTER FLOW LINE SHALL BE FIVE-TENTHS (0.5%) PERCENT SLOPE.
8. NO CURB OR SIDEWALK SHALL BE POURED WITHOUT AN INSPECTION AND APPROVAL OF FORM PLACEMENT BY CITY ENGINEERING DIVISION.
9. CONSTRUCTION MATERIALS AND PROCEDURES SHALL CONFORM TO EXISTING CITY STANDARD SPECIFICATIONS FOR M-4000 CEMENT CONCRETE AND MONTANA PUBLIC WORKS STANDARD SPECIFICATIONS SECTIONS 02528 AND 03310.
10. CITY OF MISSOULA REQUIRES 564 LBS OF PORTLAND CEMENT PER CY OF CONCRETE.



Engineering Division

## Typical 2' Valley Gutter Section

Approved By  
City Engineer  
Kevin J. Slovarp

Adopted: 08/01/1986  
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STD - 745