NOTES:
1. CASTING SPECIFICATIONS: ASTM A-48 WITH A MINIMUM TENSILE STRENGTH OF 30,000 PSI (CLASS 30). (NEENAH TYPE R-1705 RING & COVER OR EQUIVALENT).
2. TOTAL MINIMUM WEIGHT APPROXIMATELY 410 LBS.
3. DO NOT USE IN APPLICATIONS WHERE MANHOLES ARE WITHIN DRAINAGE WAYS.
4. STANDARD MANUFACTURER’S LETTERING SIZES & PATTERNS. (LETTERING SHALL BE CAST AS PART OF COVER.)
5. MANHOLE OUTSIDE OF R.O.W. MUST HAVE A LOCKING LID AND CARBONATE MARKER.
6. TRACER WIRE REQUIRED FOR ALL SEWER MAINS, LATERALS AND MANHOLES REFER TO DETAILS SD-5, SS-2, SS-11, AND W-28.

STORM SEWER MANHOLE
24" RING & COVER

SECTION A - A
1. All trenches shall be backfilled in accordance with this detail unless otherwise specified by public works.

2. Prior to placement of concrete, all edges shall be saw cut to a clean, straight, and vertical edge.

3. Prior to placement of asphalt, 18 inches of adjacent asphalt shall be milled to 2 inch depth on all sides to match existing pavement. Inner surface to be tack with HSS-1.

4. When substituting for backfill material, flowable fill shall conform to MGECO FCLM standards.

5. Trench width shall not be more than 16" nor less than 12" wider than the diameter of the pipe.

6. 95% of ASTM D698 standard compaction effort is required on all trenching zones, in both improved and unimproved areas.

7. In unimproved areas, all disturbed areas shall be regraded, seeded & mulched.

8. In concrete roadways, a minimum of 1/2 panel width or 10' x 5' section will be allowed to remain, otherwise the entire concrete panel must be replaced.

9. Use #4 rebar at 2' centers along the perimeter of concrete replacement sections.

10. 6' maximum compacted lift thickness if flowable fill not required.

11. Bedding material depth when installing storm sewer shall be up to spring line, except in areas of unsuitable backfill, then bedding material shall be 12" above pipe.

12. Trench widths less than 4' or trenching that experiences cave-ins or sloughing shall require flowable fill in order to achieve compaction.
NOTES:

1. REFER TO STANDARD NOTES FOR TOWN OF CASTLE ROCK GENERAL TRACER WIRE REQUIREMENTS. REFER TO DETAIL W-28 FOR STANDARD TRACER WIRE TEST STATION REQUIREMENTS.

2. WIRE SHALL BE INSTALLED ON TOP OF THE PIPE AT THE PIPE CENTERLINE. THE WIRE SHALL BE FASTENED TO THE PIPE WITH TAPE OR PLASTIC TIES AT 5-FOOT INTERVALS.

3. TRACER WIRE FOR OUTLET STRUCTURES SHALL TERMINATE AT A GRADE LEVEL IN-GROUND TEST STATION (REFER TO DETAIL W-28). A DRIVE-IN MAGNESIUM GROUND ROD MUST BE USED.

4. TRACER WIRE SHALL BE LOCATED WITHIN EVERY STORM SEWER MANHOLE BY DIRECTING THE WIRE VERTICALLY FROM THE MAIN UP TO AND THEN THROUGH THE CONE. A MINIMUM OF 2 FT OF WIRE SHALL BE NEATLY COILED AND PROTECTED, AND SHALL BE PLACED NO DEEPER THAN 18 INCHES BELOW THE MANHOLE LID.

5. AT ALL FUTURE CONNECTION STUB OUTS, THE END OF THE TRACER WIRE SHALL BE CONTAINED WITHIN A CORROSION PREVENTION CAP, THEN BROUGHT TO SURFACE AND ATTACHED TO A 2”x4” WOOD MARKER POST AT GRADE WITHIN EASEMENT OR R.O.W.

6. TRACER WIRE AND TEST STATION LIDS SHALL BE GREEN FOR STORM SEWERS AND DRAIN LINES.