RURAL EDGE DRAIN PLACEMENT

50'
250' TO 450'
50'

RURAL EDGE DRAIN PIPE PROFILE

RURAL EDGE DRAINS

PLAN VIEW

INTERMITTENT EDGE DRAIN
FOR ROCK CAP

CONTINUOUS EDGE DRAIN - OPTION 1
FOR ASPHALT TREATED PERMEABLE BASE

EDGE DRAIN AT SAG VERTICAL CURVE
FOR ROCK CAP OR ASPHALT TREATED PERMEABLE BASE
(SEE NOTE NO. 3)

RURAL EDGE DRAIN PIPE PROFILE (SEE NOTE NO. 5)

DRAIN DETAIL
SEE EDGE
SUBGRADE SEPARATION
GEOTEXTILE (SEE NOTE NO. 4)

PIPE SLEEVE (TYP.,
CORRUGATED STEEL
)(TYP.)

OUTLET PIPE (TYP.)
SMOOTH-WALL
NON-PERFORATED,
BASE CLASS 1-3
OPEN GRADED ROCK
AGGREGATE FOR
RADIUS (TYP.)
2' TO 3'

CAP END
(TYP.)
90°
SEE NOTE NO. 3)
PIPE SLEEVE (TYP.,
CORRUGATED STEEL
)(TYP.)

OUTLET PIPE (TYP.)
SMOOTH-WALL
NON-PERFORATED,
BASE CLASS 1-3
OPEN GRADED ROCK
AGGREGATE FOR
RADIUS (TYP.)
2' TO 3'

CAP END
(TYP.)
90°
SEE NOTE NO. 3)
PIPE SLEEVE (TYP.,
CORRUGATED STEEL
)(TYP.)

OUTLET PIPE (TYP.)
SMOOTH-WALL
NON-PERFORATED,
BASE CLASS 1-3
OPEN GRADED ROCK
AGGREGATE FOR
RADIUS (TYP.)
2' TO 3'

CAP END
(TYP.)
90°
SEE NOTE NO. 3)
PIPE SLEEVE (TYP.,
CORRUGATED STEEL
)(TYP.)

OUTLET PIPE (TYP.)
SMOOTH-WALL
NON-PERFORATED,
BASE CLASS 1-3
OPEN GRADED ROCK
AGGREGATE FOR
RADIUS (TYP.)
2' TO 3'

CAP END
(TYP.)
90°
SEE NOTE NO. 3)
PIPE SLEEVE (TYP.,
CORRUGATED STEEL
)(TYP.)

OUTLET PIPE (TYP.)
SMOOTH-WALL
NON-PERFORATED,
BASE CLASS 1-3
OPEN GRADED ROCK
AGGREGATE FOR
RADIUS (TYP.)
2' TO 3'

CAP END
(TYP.)
90°
SEE NOTE NO. 3)
PIPE SLEEVE (TYP.,
CORRUGATED STEEL
)(TYP.)

OUTLET PIPE (TYP.)
SMOOTH-WALL
NON-PERFORATED,
BASE CLASS 1-3
OPEN GRADED ROCK
AGGREGATE FOR
RADIUS (TYP.)
2' TO 3'

CAP END
(TYP.)
90°
SEE NOTE NO. 3)
PIPE SLEEVE (TYP.,
CORRUGATED STEEL
)(TYP.)

OUTLET PIPE (TYP.)
SMOOTH-WALL
NON-PERFORATED,
BASE CLASS 1-3
OPEN GRADED ROCK
AGGREGATE FOR
RADIUS (TYP.)
2' TO 3'

CAP END
(TYP.)
90°
SEE NOTE NO. 3)
PIPE SLEEVE (TYP.,
CORRUGATED STEEL
)(TYP.)

OUTLET PIPE (TYP.)
SMOOTH-WALL
NON-PERFORATED,
BASE CLASS 1-3
OPEN GRADED ROCK
AGGREGATE FOR
RADIUS (TYP.)
2' TO 3'

CAP END
(TYP.)
90°
SEE NOTE NO. 3)
PIPE SLEEVE (TYP.,
CORRUGATED STEEL
)(TYP.)

OUTLET PIPE (TYP.)
SMOOTH-WALL
NON-PERFORATED,
BASE CLASS 1-3
OPEN GRADED ROCK
AGGREGATE FOR
RADIUS (TYP.)
2' TO 3'

CAP END
(TYP.)
90°
SEE NOTE NO. 3)
PIPE SLEEVE (TYP.,
CORRUGATED STEEL
)(TYP.)

OUTLET PIPE (TYP.)
SMOOTH-WALL
NON-PERFORATED,
BASE CLASS 1-3
OPEN GRADED ROCK
AGGREGATE FOR
RADIUS (TYP.)
2' TO 3'

CAP END
(TYP.)
90°
SEE NOTE NO. 3)
PIPE SLEEVE (TYP.,
CORRUGATED STEEL
)(TYP.)

OUTLET PIPE (TYP.)
SMOOTH-WALL
NON-PERFORATED,
URBAN EDGE DRAIN

PLAN VIEW

SECTION A-A
URBAN EDGE DRAIN PLACEMENT

EDGE DRAIN DETAIL

NOTES

1. PROVIDE CORRUGATED POLYETHYLENE DRAINAGE TUBING IN ACCORDANCE WITH SUBSECTION 703.10 OR CLASS PS 46 POLYVINYLS CHLORIDE (PVC) PIPE IN ACCORDANCE WITH SUBSECTION 703.1A OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

2. MINIMUM PIPE GRADE OF 0.5 PERCENT. IN SPECIAL CASES, EDGE DRAIN GRADIENTS MAY BE AS FLAT AS 0.2 PERCENT IF LARGER PIPE DIAMETERS ARE USED.

3. PLACE OUTLET PIPES IN 10 FOOT LONG CORRUGATED STEEL PIPE SLEEVES EXTENDING FROM THE CONCRETE APRON. USE PIPE JUST LARGE ENOUGH TO ALLOW THE OUTLET PIPES TO FIT THROUGH.

4. PROVIDE OUTLET PIPES AT THE BOTTOM OF SAG VERTICAL CURVES.

5. PROVIDE A MINIMUM OF 6 INCHES OF FREEBOARD ABOVE THE BOTTOM OF THE DITCH AND THE PIPE OUTLET, WHERE THIS IS NOT POSSIBLE, PROVIDE A COLLECTION AND DISPOSAL SYSTEM.

6. KEEP JOINTS IN EDGE DRAIN AND OUTLET PIPES TO A MINIMUM. USE COUPLINGS TO JOIN PIPES AS NEEDED.

7. CONCRETE APRON AND RODENT PROTECTOR DETAIL MAY BE PRECAST OR CAST-IN-PLACE. PROVIDE REMOVABLE RODENT SCREEN.

8. VIDEO INSPECT FINISHED EDGE DRAIN AND OUTLET PIPES TO ENSURE THAT DAMAGE WAS NOT INCURRED DURING SUBSEQUENT CONSTRUCTION.

9. DRAWINGS NOT TO SCALE.

GEONETEXILE DETAIL

CONCRETE APRON AND RODENT PROTECTOR DETAIL

SEE NOTE NO. 71