

SECTION 334300 - LANDSCAPE DRAINAGE

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Area drains.
 - 2. Drain lines.
- B. Related Sections:
 - 1. Division 01: Administrative, procedural, and temporary work requirements.

1.2 REFERENCES

- A. ASTM International (ASTM):
 - 1. D2564 - Standard Specification for Solvent Cements for Poly (Vinyl Chloride) (PVC) Plastic Piping Systems.
 - 2. D2729 - Standard Specification for Poly (Vinyl Chloride) (PVC) Sewer Pipe and Fittings.
 - 3. D2855 - Standard Practice for Making Solvent-Cemented Joints with Poly (Vinyl Chloride) (PVC) Pipe and Fittings.

1.3 SUBMITTALS

- A. Submittals for Review:
 - 1. Shop Drawings: Show layout of drainage fittings and lines, including locations, elevations, slopes, pipe sizes, and accessories.
 - 2. Product Data: Manufacturer's data for drain fittings showing physical properties and installation procedures.

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: Minimum 3 years experience in work of this Section.

PART 2 PRODUCTS

2.1 MATERIALS

- A. Drainage Pipe:
 - 1. ASTM D2729, polyvinyl chloride (PVC) material, bell and spigot style solvent sealed ends, non-perforated.
 - 2. Fittings: PVC.
 - 3. Joints: ASTM D2855, solvent weld type with ASTM D2564 solvent cement.
- B. Drain Fittings: Refer to Materials Legend.

PART 3 EXECUTION

3.1 EXCAVATION

- A. Trench for drainage pipe.
- B. Hand trim excavations to required shape and elevations.
- C. Remove large stones and obstructions.

3.2 INSTALLATION

- A. Install drainage pipe and fittings in accordance with manufacturer's instructions, at required flow line and grade.
- B. Provide minimum 0.5 percent uniform slope.
- C. Solvent weld joints.
- D. Place drain fittings in accordance with manufacturer's instructions.
- E. Backfill and compact without damage to pipe or fittings.

3.3 FIELD QUALITY CONTROL

- A. Test drain fittings and drainage lines for free flow prior to covering.
- B. If free flow is not present, remove obstructions and repeat test.

END OF SECTION