GENERAL NOTES
1. All concrete shall be Class B.
2. Grate and frame shall be fabricated of structural steel in accordance with ASTM A567.
3. All welding shall be in accordance with ANSI/AWS D1.1.
4. Grate assembly shall be given one coat of Number 1 paint.
5. Apron slopes shall match the natural flow line of the ditch. No additional depression will be allowed.
6. $\alpha = 6^\circ$ when $H$ is $8'$ or less. $8^\circ$ when $H$ is greater than $8'$. 

SECTION A-A
- 2" Clear (Typ)
- 2" Outlet Pipe (Typical Installation)
- 24" Outlet Pipe (Typical Installation)
- Match Cross Slope (Typ)

SECTION B-B
- 2" Clear (Typ)
- 24" Outlet Pipe (Typical Installation)
- Match Cross Slope (Typ)

DITCH GRADE DETAIL
- Grate to Drainage Ditch
- Location Control Point Elevation
- Concrete Apron Required Unless Otherwise Indicated on Project Plans
- Grate to Drainage Ditch Match Grate Elevation

PERSPECTIVE
- Grate to Drain Ditch
- Elevation Controlled by Sides of the Apron
- *4 Riser (Typ)
- 1"-0" Center to Center Horizontal and Vertical

GRATE DETAIL
- 4-1/2" x 4" Bolt Anchors Band 45°
- 4-1/2" x 4" Bolt Anchors Band 45°
- 3-3/4" x 3-1/2" x 1-1/2" Steel
- 2-1/2" x 2-1/2" Bar
- Sump Well
- 1/2" x 1/2" Bar

DETAILED INFORMATION
- Location Control Point Elevation
- Concrete Apron Required Unless Otherwise Indicated on Project Plans
- Grate to Drainage Ditch Match Grate Elevation
- Grate to Drainage Ditch