

- 1. MATERIAL: ASTM A53 GRADE B GALVANIZED STEEL PIPE
- 2. UPON REQUEST, GRATES SUBJECT TO SALT WATER OR HIGHLY CORROSIVE ENVIRONMENTS WILL BE HOT DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123
- 3. ALL GALVANIZED STEEL PIPE CUT TO 45 DEGREE ANGLE BOTH ENDS
- **4.** 11/16" X 2" SLOTS PUNCHED AT BOTH ENDS OF PIPE. INTERMEDIATE SLOTS INSERTED FOR MULTIPLE PIPE
- 5. ADDITIONAL SIZES ARE AVAILABLE
- **6.** PIPE FASTENER UNITS AVAILABE PLEASE SEE SEPARATE DRAWING FOR DETAILS
- 7. PIPE GRATES FABRICATED PER FL DOT INDEX 273

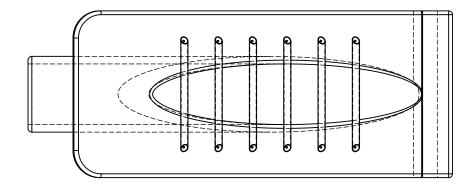
| PIPE DIAMETER | SCH40 PIPE SIZE | # OF SCH40 PIPE | SCH80 PIPE SIZE | LENGTH OF PIPE SINGLE | LENGTH OF PIPE DOUBLE | LENGTH OF PIPE TRIPLE |
|---------------|-----------------|-----------------|-----------------|--------------------------|--------------------------|--------------------------|
| 12" X 18" | 2-1/2" | 2 | 3" | 38-5/8" | 72-5/8" | 106-1/2" |
| 14" X 23" | 2-1/2" | 3 | 3" | 44" | 84" | 124" |
| 19" X 30" | 2-1/2" | 4 | 3" | 52" | 100" | 148" |
| 24" X 38" | 2-1/2" | 5 | 3" | 61" | 121" | 181" |
| 29" X 45" | 2-1/2" | 7 | 3-1/2" | 69-5/8" | 140-5/8" | 211-1/2" |
| 34" X 53" | 3" | 8 | 3-1/2" | 78-5/8" | 162-5/8" | 246-5/8" |
| 38" X 60" | 3" | 10 | 4" | 86-5/8" | 180-5/8" | 274-1/2" |
| 43" X 68" | 3" | 11 | 4" | 95-5/8" | 202-1/2" | 309-5/8" |
| 48" X 76" | 4" | 13 | 4" | 104-5/8" | 223-1/2" | 342-5/8" |
| 53" X 83" | 4" | 14 | 4" | 112-1/2" | 240 5/8" | 368-5/8" |
| 58" X 91" | 4" | 15 | 4" | 121-1/2" | 261-5/8" | 401-5/8" |

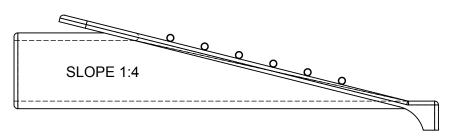
SINGLE AND MULTIPLE ELLIPTICAL CONCRETE PIPE



Environmental Composites Inc. 4250 Lake Industrial Blvd. Tavares, Florida 32778 (352)343-3449 Fax (352)343-5577

www.environmentalcomposites.com





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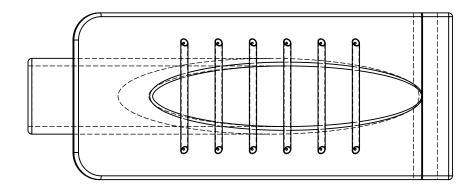
| PIPE DIAMETER | SCH40 PIPE SIZE | # OF SCH40 PIPE | SCH80 PIPE SIZE | LENGTH OF PIPE SINGLE | LENGTH OF PIPE DOUBLE | LENGTH OF PIPE TRIPLE |
|---------------|-----------------|-----------------|-----------------|--------------------------|--------------------------|--------------------------|
| 17" X 13" | 2-1/2" | 1 | 3" | 31" | 63-5/8" | 93-5/8" |
| 21" X 15" | 2-1/2" | 2 | 3" | 45" | 71-5/8" | 105-5/8" |
| 28" X 20" | 2-1/2" | 4 | 3" | 44-5/8" | 85-1/2" | 126-5/8" |
| 35" X 24" | 2-1/2" | 5 | 3" | 51-5/8" | 99-5/8" | 147-5/8" |
| 42" X 29" | 2-1/2" | 6 | 3-1/2" | 58-1/2" | 115-1/2" | 172-1/2" |
| 49" X 33" | 2-1/2" | 7 | 3-1/2" | 65-5/8" | 131-5/8" | 197-5/8" |
| 57" X 38" | 3" | 9 | 4" | 73-1/2" | 149-5/8" | 222-5/8" |
| 64" X 43" | 3" | 10 | 4" | 80-5/8" | 165-5/8" | 249-5/8" |
| 71" X 47" | 3" | 12 | 4" | 87-5/8" | 181-1/2" | 275-5/8" |

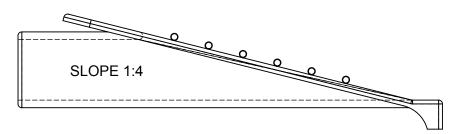
SINGLE AND MULTIPLE ELLIPTICAL CORRUGATED METAL PIPE



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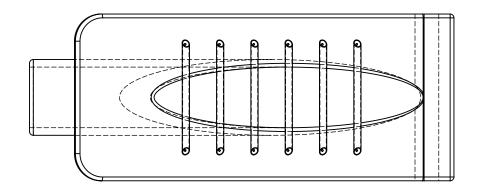
| PIPE DIAMETER | SCH40 PIPE SIZE | # OF SCH40 PIPE | SCH80 PIPE SIZE | LENGTH OF PIPE SINGLE | LENGTH OF PIPE DOUBLE | LENGTH OF PIPE TRIPLE |
|---------------|-----------------|-----------------|-----------------|--------------------------|--------------------------|--------------------------|
| 15" | 2-1/2" | 3 | 3" | 35" | 66" | 97" |
| 18" | 2-1/2" | 4 | 3" | 38-5/8" | 72-5/8" | 106-1/2" |
| 24" | 2-1/2" | 6 | 3" | 45-5/8" | 86-5/8" | 127-1/2" |
| 30" | 2-1/2" | 7 | 3" | 52-1/2" | 103-1/2" | 154-1/2" |
| 36" | 2-1/2" | 9 | 3" | 59-5/8" | 120-5/8" | 181-1/2" |
| 42" | 2-1/2" | 11 | 3-1/2" | 66-5/8" | 138-5/8" | 210-5/8" |
| 48" | 2-1/2" | 13 | 3-1/2" | 73-1/2" | 154-1/2" | 235-1/2" |
| 54" | 3" | 14 | 4" | 80-5/8" | 172-1/2" | 264-5/8" |
| 60" | 3" | 16 | 4" | 87-5/8" | 189-5/8" | 291-5/8" |

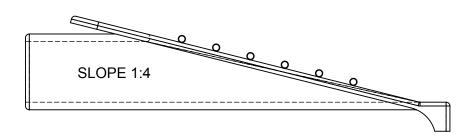
SINGLE AND MULTIPLE ROUND CONCRETE PIPE



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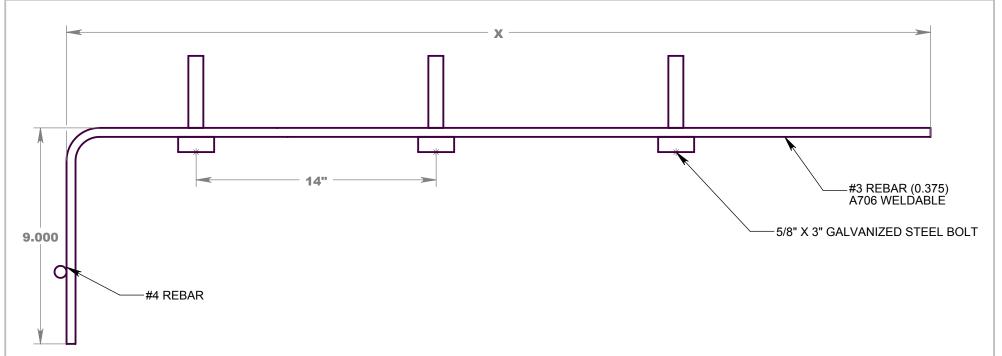
| PIPE DIAMETER | SCH40 PIPE SIZE | # OF SCH40 PIPE | SCH80 PIPE SIZE | LENGTH OF PIPE SINGLE | LENGTH OF PIPE DOUBLE | LENGTH OF PIPE TRIPLE |
|---------------|-----------------|-----------------|-----------------|--------------------------|--------------------------|--------------------------|
| 15" | 2-1/2" | 2 | 3" | 31-1/2" | 62-5/8" | 93-5/8" |
| 18" | 2-1/2" | 3 | 3" | 34-1/2" | 68-5/8" | 102-5/8" |
| 24" | 2-1/2" | 5 | 3" | 40-1/2" | 81-5/8" | 122-5/8" |
| 30" | 2-1/2" | 7 | 3" | 46-1/2" | 97-1/2" | 148-1/2" |
| 36" | 2-1/2" | 8 | 3" | 52-1/2" | 113-5/8" | 174-5/8" |
| 42" | 2-1/2" | 10 | 3-1/2" | 58-1/2" | 130-1/2" | 202-1/2" |
| 48" | 2-1/2" | 12 | 3-1/2" | 64-1/2" | 145-1/2" | 226-1/2" |
| 54" | 3" | 14 | 4" | 70-1/2" | 162-5/8" | 254-5/8" |
| 60" | 3" | 15 | 4" | 76-1/2" | 178-1/2" | 280-1/2" |

SINGLE AND MULTIPLE ROUND CORRUGATED METAL PIPE



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CONCRETE PIPE ROUND

| PIPE DIA. | "X" | # BOLTS |
|-----------|------|---------|
| 15" | 50" | 4 |
| 18" | 64" | 5 |
| 24" | 92" | 7 |
| 30" | 106" | 8 |
| 36" | 134" | 10 |
| 42" | 162" | 12 |
| 48" | 190" | 14 |
| 54" | 204" | 15 |
| 60" | 232" | 17 |

CONCRETE PIPE ELLIPTICAL

| PIPE DIA. | "X" | # BOLTS |
|-----------|------|---------|
| 12" X 18" | 36" | 3 |
| 14" X 23" | 50" | 4 |
| 19" X 30" | 64" | 5 |
| 24" X 38" | 78" | 6 |
| 29" X 45" | 106" | 8 |
| 34" X 53" | 120" | 9 |
| 38" X 60" | 148" | 11 |
| 43" X 68" | 162" | 12 |
| 48" X 76" | 190" | 14 |
| 53" X 83" | 204" | 15 |
| 58" X 91" | 218" | 16 |

CORRUGATED METAL ROUND

| PIPE DIA. | "X" | # BOLTS |
|-----------|------|---------|
| 15" | 36" | 3 |
| 18" | 50" | 4 |
| 24" | 78" | 6 |
| 30" | 106" | 8 |
| 36" | 120" | 9 |
| 42" | 148" | 11 |
| 48" | 176" | 13 |
| 54" | 204" | 15 |
| 60" | 218" | 16 |

CORRUGATED METAL ELLIPTICAL

| PIPE DIA. | "X" | # BOLTS |
|-----------|------|---------|
| 17" X 13" | 22" | 2 |
| 21" X 15" | 36" | 3 |
| 28" X 20" | 64" | 5 |
| 35" X 24" | 78" | 6 |
| 42" X 29" | 92" | 7 |
| 49" X 33" | 106" | 8 |
| 57" X 38" | 134" | 10 |
| 64" X 43" | 148" | 11 |
| 71" X 47" | 176" | 13 |

MITERED END SECTION FRAME FASTENER



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