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NOTE:
1. SIDEWALK SHOWN ON ONE SIDE ONLY. MAY BE REQUIRED ON BOTH SIDES OF ROAD.

* - 2 HORIZONTAL TO 1 VERTICAL MAXIMUM.
IN LAWN AREAS, 4 HORIZONTAL TO 1 VERTICAL IS PREFERRED.
NOTE:
1. SIDEWALK SHOWN ON ONE SIDE ONLY. MAY BE REQUIRED ON BOTH SIDES OF ROAD.

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* - 2 HORIZONTAL TO 1 VERTICAL MAXIMUM. IN LAWN AREAS, 4 HORIZONTAL TO 1 VERTICAL IS PREFERRED.
NOTES:
1. THIS DRAWING ONLY APPLIES TO WIDENING OF EXISTING ROADS.
2. BITUMINOUS CONCRETE LIP CURBING MAY BE USED WHERE ALLOWED.
3. THE PAVEMENT STRUCTURE SHALL BE BUILT IN ACCORDANCE WITH DWG. NOS. RDS-101, 102, 103 AND 104 DEPENDING ON THE CLASSIFICATION OF THE STREET BEING WIDENED OR MATCH EXISTING, WHICHERVER IS GREATER.
NOTES:
1. THE PAVEMENT STRUCTURE SHALL BE BUILT IN ACCORDANCE WITH DWG. NOS. RDS-101, 102, 103 AND 104 DEPENDING ON THE CLASSIFICATION OF THE STREET BEING TRENCHED OR MATCH EXISTING, WHICHERVER IS GREATER.
2. IF A TEMPORARY PATCH IS USED, OR REQUIRED, IT SHALL BE A MINIMUM OF 2 INCHES THICK BITUMINOUS CONCRETE (CLASS 1).
SECTION A-A

DIRECTION OF TRAVEL

SPEED HUMP (CLASS 1 BIT. CONC.)

2" X 18" KEYWAY CUT IN EXISTING PAVEMENT

EXISTING ROAD SURFACE

TACK COAT (RS-1)

2" X 18" KEYWAY CUT IN EXISTING PAVEMENT

SLOPE VARIES (2:1 MAX) C

EXISTING ROAD SURFACE

EDGE OF PAVEMENT

EDGE OF PAVEMENT

3"

8"

1/4" FT.

1/4" FT.

1/4" FT.

2" X 12" KEYWAY (TYP.)

NOT TO SCALE
Pavement Marking Detail

Road & Drainage Standards

Town of Groton

Department of Public Works

NOT TO SCALE

DATE: 7/28/05

TRAVEL

ROAD

12" WIDE WHITE

45°

2', TYP.

12'
NOTE:
1. THE DIMENSIONS SHOWN ARE TYPICAL. CONSULT UTILITY FOR SPECIFIC REQUIREMENTS.
NOTES:
1. PROVIDE SMOOTH TROWEL OR HAIR BRUSH FINISH TO ALL EXPOSED SURFACES.
2. PRECAST CONCRETE CURB MAY BE USED WITH APPROVAL BY THE TOWN.
   2A. PRECAST CURBING SIZE SHALL MEET THE SIZE SHOWN ABOVE (18" HEIGHT MAY BE USED).
   2B. STRAIGHT SECTIONS SHALL NOT BE USED FOR RADII LESS THAN 100'.
   2C. CURBING SECTIONS SHALL BE PINNED TOGETHER.
NOTES:
1. PROVIDE SMOOTH TROWEL OR HAIR BRUSH FINISH TO ALL EXPOSED SURFACES.
2. PRECAST CONCRETE CURB MAY BE USED WITH APPROVAL BY THE TOWN.
   2A. PRECAST CURBING SIZE SHALL MEET THE SIZE SHOWN ABOVE.
   2B. STRAIGHT SECTIONS SHALL NOT BE USED FOR RADII LESS THAN 100’.
   2C. CURBING SECTIONS SHALL BE PINNED TOGETHER.
3. ONLY TO BE USED WHERE ALLOWED BY THE PUBLIC WORKS DEPARTMENT.
NOTE:
1. USE BITUMINOUS CONCRETE CLASS 3 FOR CURBING.
NOTE:
1. USE BITUMINOUS CONCRETE CLASS 3 FOR CURBING.
NOTES:
1. MORTAR ALL JOINTS. LEAVE UNMORTARED JOINT EVERY 50’±.
2. MAXIMUM ALLOWABLE BREAK BACK
   9” FOR CURB LENGTHS OF 6’ OR MORE
   6” FOR CURB LENGTHS OF LESS THAN 6’
3. MINIMUM ACCEPTABLE LENGTH IS 3’.
NOTE:
1. RAMP SECTION SHALL CONFORM TO DWG. NO. RDS-210.
NOTE:
1. RAMP SECTION SHALL CONFORM TO DWG. NO. RDS-210 & DWG. NO. RDS-213.
NOTE:
1. RAMP SECTION SHALL CONFORM TO DWG. NO. RDS-210.
NOTE:
1. RAMP SECTION SHALL CONFORM TO DWG. NOS. RDS-210 & RDS-213.
6 X 6 - W1.4 X W1.4 WELDED WIRE FABRIC
6" CONCRETE APRON AND SIDEWALK
6" PROCESSED GRAVEL BASE

CONSTRUCTION JOINT: 1/2" PREFORMED EXPANSION JOINT MAT'L
SIDEWALK

TOOLED JOINT
6" THICK CONCRETE SIDEWALK

TOOLED JOINT
6" THICK CONCRETE DRIVEWAY APRON

WARPED SECTION
SEE DWG. NO. RDS-215

MONOLITHIC CURBING
(DWG. NO. RDS-213)

1" ROUNDED LIP

1" REVEAL
APRON VARIES
SIDEWALK VARIES 1/4"/FT.

BACK OF SIDEWALK GRADE EXTENDED THROUGH DRIVEWAY

1 1/2"

1/4"/FT.

6" CONCRETE APRON AND SIDEWALK
6" PROCESSED GRAVEL BASE

TOOLED JOINT
CONSTRUCTION JOINT: 1/2" PREFORMED EXPANSION JOINT MAT'L
SIDEWALK

PLAN

SECTION
CONSTRUCTION JOINT

6" THK. CONCRETE DRIVEWAY APRON

CROSS SLOPE 1 1/2"/FT.

CONSTRUCTION JOINT

TOOLED JOINT

4" CONCRETE SIDEWALK

MONOLITHIC CURBING
(DWG. NO. RDS-213)

PLAN

VARIES

MAX. SLOPE=1"/FT.

FACE OF CURB

BACK OF WALK

SEE DWG. NO. RDS-215

ELEVATION

NOTES:
1. SEE DWG. RDS-212B FOR SECTIONS.
2. TO BE USED ONLY WHERE RIGHT-OF-WAY WIDTH PROHIBITS INSTALLATION OF DRIVEWAY APRON AS PER DWG. RDS-211.

DATE: 3/22/99

DEPARTMENT OF PUBLIC WORKS

NOT TO SCALE
SECTION A–A

*TOOLED JOINTS IN DRIVEWAY APRON TO BE PLACED WHERE DIRECTED WITH 6’ MAXIMUM SPACING.

SECTION B–B

NOT TO SCALE

Town of Croton
Department of Public Works

DWN BY: GMJ
APD BY:

ROAD & DRAINAGE STANDARDS
CONCRETE DRIVEWAY APRON
ADJACENT SIDEWALK

DATE: 3/22/99
DWG NO. RDS-212B
**Road & Drainage Standards**

**Monolithic Curb and Sidewalk/Driveway Apron**

- **Welded Wire Fabric**
- **Continuously Tooled Joint**
- **Undisturbed Earth**
- **Processed Gravel**
- **Concrete**
- **Pavement Finish Grade**
- **Hair Broom Finish**

**Dimensions:**
- **6" Sidewalk**
- **12" Driveway Apron**
- **1 1/2" Sidewalk Apron**
- **6" Driveway Apron**

**Dates:**
- **Date:** 3/22/99
- **Revision:** 6 X 6 - W1.4 X W1.4
- **Drawing Number:** RDS-213

**Town of Groton**

**Department of Public Works**

DWN BY: GMJ

APD BY:

DATE: 3/22/99

DWG NO. RDS-213

**NOT TO SCALE**
5'-0" VARIES GUTTER LINE

DRIVEWAY WIDTH
(SEE RDS-215)

BITUMINOUS CONCRETE DRIVEWAY APRON

5'-0"

GUTTER LINE

ROAD PLAN

MEET DRIVEWAY

1 1/2"/FT. MAX

PAVEMENT FINISH GRADE

* - WHERE CURBING EXISTS PROVIDE 1" REVEAL. IF NO CURBING THEN DRIVEWAY TO BE FLUSH WITH ROAD.

3" BIT Conc. (CLASS 2)

6" PROCESSED GRAVEL BASE

SECTION

NOT TO SCALE

Town of Groton
Department of Public Works

DWN BY: GMJ
APD BY:

ROAD & DRAINAGE STANDARDS

DATE: 3/22/99

BIT. CONC. DRIVEWAY APRON

DWG NO. RDS-214
SINGLE DRIVEWAY
A = 16'
B = 12'

DOUBLE DRIVEWAY
A = 22'
B = 18'

NOTE: DIMENSION "A" DOES NOT APPLY WHEN DRIVEWAY APRON IS IN A SIDEWALK ADJACENT TO CURB. SEE DWG. RDS-212A.
NOTE:
1. IF PIPE IS PLACED IN OR ON LEDGE, ALL LEDGE WITHIN 12" OF PIPE SHALL BE REMOVED AND REPLACED WITH PIPE BEDDING.
NOTE:
1. SLOTS SHALL BE PLACED DOWN.
2. FILTER FABRIC SHALL BE MIRAFI 140NS,
   EXXON 150EX, AMOCO 4545, TREVIRA
   1114 OR APPROVED EQUAL.
NOTES:
1. PERFORATIONS SHALL BE PLACED DOWN.
2. PIPE SHALL NOT BE PLACED WITHIN 36” OF ANY UTILITY POLE.
3. FILTER FABRIC SHALL BE MIRAFI 140NS, EXXON 150EX, AMOCO 4545, TREVIRA 1114 OR APPROVED EQUAL.

2.5’ OR AS DIRECTED

3’ OR AS DIRECTED

6” PERFORATED CORRUGATED H.D.P.E. TUBING

FILTER FABRIC

NOT TO SCALE

Town of Croton
Department of Public Works

DWN BY: GMJ

DATE: 3/22/99

UNDERDRAIN WITH 6” PIPE

DWG NO. RDS-303
MANHOLE FRAME & COVER
(SEE DWG. NO. RDS-307)

PRECAST REINFORCED
CONCRETE MANHOLE
ECCENTRIC CONE

GROUND SURFACE
ADJUST TO GRADE
WITH MAX. OF FOUR COURSES OF BRICK

COPOLYMER POLYPROPYLENE PLASTIC LADDER RUNGS
AT 12" ON CENTER
(SEE DWG. NO. RDS-306)

MAKE WATERTIGHT JOINT USING BUTYL RUBBER GASKET
(TYPICAL)

TYPICAL STANDARD PRECAST REINFORCED
CONCRETE MANHOLE RISER SECTION
(AS REQUIRED)

KNOCKOUTS FOR PIPES MIN 4" FROM TOP & BOTTOM OF BASE

4" MIN.
6" MIN.

3/4" CRUSHED STONE

CONCRETE OR BRICK & MORTAR INVERT

4'-0" DIA.

5" WALL

BASE 4' MIN.

NOTE: 5' OR 6' DIA. PRECAST BASES MAY BE
USED WHEN REQUIRED DUE TO SIZE OR NUMBER OF PIPES AT THE MANHOLE.
PRECAST REDUCERS WILL BE PLACED ABOVE THE 5' AND 6' BASES AS
DIRECTED BY THE ENGINEER. WALL THICKNESS TO INCREASE 1" FOR EACH 1'
OF INSIDE DIAMETER INCREASE.
WALLS SHALL BE A MIN. OF 8" USING SOLID CONCRETE UNITS. WALL SHALL BE 12" THICK WHEN DEPTH OF MANHOLE IS GREATER THAN 10" DEEP.

WALLS ARE TO BE PLASTERED OUTSIDE WITH 1:2 CEMENT MORTAR 1/2" THICK. UNIT MUST BE WET WHEN MORTAR IS APPLIED.

ALL JOINTS ARE TO BE POINTED FLUSH AND FULL

CONCRETE UNITS TO BE LAID IN CEMENT SAND MORTAR 1:2 MIX. JOINTS TO BE NOT OVER 1/2" ON INSIDE FACE.

NOTE:
CHANNELS MAY BE SHAPED IN CONCRETE BASE OF MANHOLE OR FORMED OF BRICK.
1-3/16"

8-1/4"

1-3/8"

3-1/8"

15-7/16"

14"

5-1/8"

1/2" DIAMETER STEEL REINFORCEMENT (GRADE 60)

COPOLYMER POLYPROPYLENE PLASTIC

GROUT, CAST OR SET IN MANHOLE WALL

SECTION A-A

NOT TO SCALE

Town of Groton
Department of Public Works
ROAD & DRAINAGE STANDARDS
MANHOLE STEP

DWN BY: GMJ
DATE: 3/22/99
DWG NO. RDS-306
FRAME AND COVER SHALL BE:
LeBARON FOUNDRARY CATALOG NO. LK 310
MINIMUM WEIGHT OF FRAME AND COVER = 500 LBS.
NOTES:
1. In precast riser sections, the knockouts or openings around the pipes shall be mortared to 6".
2. Precast reducer shall be specifically sized & placed for the type of top used.
3. Place all precast units, tops and concrete blocks in a cement mortar bed.
4. Precast units shall be reinforced with welded wire fabric.

IN PRECAST RISER SECTIONS, THE KNOCKOUTS OR OPENINGS AROUND THE PIPES SHALL BE MORTARED TO 6".
PRECAST REDUCER SHALL BE SPECIFICALLY SIZED & PLACED FOR THE TYPE OF TOP USED.
PLACE ALL PRECAST UNITS, TOPS AND CONCRETE BLOCKS IN A CEMENT MORTAR BED.
PRECAST UNITS SHALL BE REINFORCED WITH WELDED WIRE FABRIC.
NOTES:

1. WHERE PRECAST CONCRETE UNIT IS USED FOR SUMP, THE TOP OF THE UNIT SHALL BE AT LEAST 6" BELOW THE BOTTOM OF THE PIPE OUTLETTING FROM THE CATCH BASIN.

2. CONCRETE UNITS TO BE LAID IN CEMENT SAND MORTAR 1:2 MIX. JOINTS NOT TO BE OVER 1\(\frac{1}{2}\)" ON INSIDE FACE.

3. WALLS ARE TO BE PLASTERED OUTSIDE WITH 1:2 CEMENT MORTAR 1\(\frac{1}{2}\)" THICK. UNITS MUST BE WET WHEN MORTAR IS APPLIED.

ALL JOINTS ARE TO BE POINTED FLUSH AND FULL.
NOTES:
1. TOP INLET TO CONFORM TO RDS-311.
2. FRAMES & GRATES TO CONFORM TO RDS-313A & RDS-313B.

PLAN

SECTION A-A

12"
5'-10 1/2"
4"
8"
2'-0" MIN.

PRECAST CONC. REDUCER OR CORBEL (2" MAX.)
8" CONC. UNITS

PRECAST RISER OR 8" CONCRETE UNITS

SEE DETAIL "A"

GUTTER LINE

PRECAST TYPE II TOP (TYPE "C" OR "CL")
CONFORMING TO FORM 816

S4 X 95 (GALVANIZED)

2L 3 1/2" X 2 1/2" X 1/2" (GALVANIZED)

DETAIL "A"

1/4"
1/4"
1/4"

1/4"
2'0"

6'-6 1/2"
7'-10 1/2"

3/4" CRUSHED STONE

6"
6"
6"
18" SUMP

2'0" MIN.

7'-10 1/2"

1/4" S4 X 95 (GALVANIZED)

2L 3 1/2" X 2 1/2" X 1/2" (GALVANIZED)

DETAIL "A"

1/4"
1/4"
1/4"

8" CONC. UNITS

PRECAST CONC. REDUCER OR CORBEL (2" MAX.)
8" CONC. UNITS

SEE DETAIL "A"

PRECAST RISER OR 8"
CONCRETE UNITS

NOT TO SCALE
NOTE:
1. TYPE 'C' CATCH BASIN TOP SHALL CONFORM TO CONNECTICUT DEPT. OF TRANSPORTATION STANDARD SPECIFICATION FORM 816 SECTION: M.08.02-4.
NOTE:
1. CURB INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CONNECTICUT D.O.T. STANDARDS.
NOTE:
1. TYPE 'CL' CATCH BASIN TOPS SHALL CONFORM TO CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION FORM 816 SECTION: M.08.02-4.
NOTES:
1. CATCH BASIN GRATE SHALL CONFORM TO CONNECTICUT D.O.T. STANDARD DRAWING #507K TYPE-A.
2. STEEL FRAMES AND GRATES SHALL BE GALVANIZED IN ACCORDANCE WITH M.06.03 OF D.O.T. FORM 816.
3. ALL BARS SHALL BE WELDED AT ALL INTERSECTIONS.
4. ALL METAL UNITS SUBJECT TO MANUFACTURING TOLERANCES.
5. ONLY LOW HYDROGEN ELECTRODES SHALL BE USED.
6. DIMENSIONAL TOLERANCES MAY BE ±1/16”.
7. WELDING WILL BE PERFORMED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION.
NOTE:
1. SEE NOTES ON DWG. NO. RDS-313A.
NOTES:
1. USE CAST IRON HOOD FOR PIPE SIZES UP TO 24”.
2. USE GALVANIZED FABRICATED STEEL HOOD FOR PIPE SIZES 24” AND LARGER.

*CAMPBELL FOUNDRY CO. PATTERN NUMBERS

<table>
<thead>
<tr>
<th>PIPE SIZE</th>
<th>PATTERN NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>15&quot;</td>
<td>2564</td>
</tr>
<tr>
<td>18&quot;</td>
<td>2565</td>
</tr>
<tr>
<td>21&quot;</td>
<td>2566</td>
</tr>
<tr>
<td>24&quot;</td>
<td>2568A</td>
</tr>
<tr>
<td>30” &amp; LARGER</td>
<td>CONSULT MANUF.</td>
</tr>
</tbody>
</table>

Town of Groton
Department of Public Works

DATE: 3/22/99

DWG NO. RDS-314
Plan

NORMAL GUTTER LINE

2" DEPRESSION

FOR CATCH BASINS WHERE NO CURBING OF ANY TYPE EXISTS OR IS PROPOSED.

NORMAL GUTTER LINE

1" DEPRESSION

FOR CATCH BASINS IN A LINE OF CONCRETE CURBING OR GRANITE CURBING.

NORMAL GUTTER LINE

VERTICAL FACE BETWEEN THESE LINES

2" DEPRESSION

VERTICAL FACE BETWEEN THESE LINES

FOR CATCH BASINS IN A LINE OF BITUMINOUS CONCRETE LIP CURBING.

NOTE:
1. 6'-0" ON UPGRADE SIDE OF CONTINUOUS GRADE, 1'-0" ON DOWNGRADE SIDE OF CONTINUOUS GRADE OR AS DIRECTED.
NOTE:

1. CULVERT END (FLARED END) SECTIONS SHALL CONFORM TO CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION FORM 816 SECTION: M.08.01-22.

DIMENSION TABLE

<table>
<thead>
<tr>
<th>DIA</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>R</th>
</tr>
</thead>
<tbody>
<tr>
<td>15&quot;</td>
<td>6&quot;</td>
<td>2'–3&quot;</td>
<td>3'–10&quot;</td>
<td>2'–6&quot;</td>
<td>2 1/4&quot;</td>
<td>11&quot;</td>
</tr>
<tr>
<td>18&quot;</td>
<td>9&quot;</td>
<td>2'–3&quot;</td>
<td>3'–10&quot;</td>
<td>3'–0&quot;</td>
<td>2 1/2&quot;</td>
<td>12&quot;</td>
</tr>
<tr>
<td>24&quot;</td>
<td>9 1/2&quot;</td>
<td>3'–7 1/2&quot;</td>
<td>2'–6&quot;</td>
<td>4'–0&quot;</td>
<td>3&quot;</td>
<td>14&quot;</td>
</tr>
<tr>
<td>30&quot;</td>
<td>12&quot;</td>
<td>4'–6&quot;</td>
<td>1'–7 3/4&quot;</td>
<td>5'–0&quot;</td>
<td>3 1/2&quot;</td>
<td>15&quot;</td>
</tr>
<tr>
<td>36&quot;</td>
<td>15&quot;</td>
<td>5’–3”</td>
<td>2’–10 3/4&quot;</td>
<td>6’–0&quot;</td>
<td>4&quot;</td>
<td>20&quot;</td>
</tr>
<tr>
<td>42&quot;</td>
<td>21&quot;</td>
<td>5’–3”</td>
<td>2’–11&quot;</td>
<td>6’–6&quot;</td>
<td>4 1/2&quot;</td>
<td>22&quot;</td>
</tr>
<tr>
<td>48&quot;</td>
<td>24&quot;</td>
<td>6’–0”</td>
<td>2’–2&quot;</td>
<td>7’–0&quot;</td>
<td>5&quot;</td>
<td>22&quot;</td>
</tr>
<tr>
<td>54&quot;</td>
<td>27&quot;</td>
<td>5’–5”</td>
<td>2’–11&quot;</td>
<td>7’–6&quot;</td>
<td>5 1/2&quot;</td>
<td>24&quot;</td>
</tr>
<tr>
<td>60&quot;</td>
<td>30&quot;</td>
<td>5’–0”</td>
<td>3’–3&quot;</td>
<td>8’–0&quot;</td>
<td>6&quot;</td>
<td>24”</td>
</tr>
</tbody>
</table>

CONNDOT FORM 816

TOWN: Groton
DEPARTMENT: Department of Public Works
ROAD & DRAINAGE STANDARDS
FLARED END

DWN BY: GMJ
APD BY:

DATE: 3/22/99
DWG NO: RDS–316
NOTE:
1. WHEN USING HDPE PIPE, CONCRETE FLARED ENDS MUST BE USED. HDPE FLARED ENDS WILL NOT BE ALLOWED.
2. FLARED END SHALL CONFORM TO DWG. NO. RDS-314.
### ROAD & DRAINAGE STANDARDS

#### TYPE I ENDWALL

**EMBANKMENT**

**FLOW LINE**

**CLASS 'A' CONCRETE OR CEMENT RUBBLE MASONRY**

**DIMENSIONS & QUANTITIES FOR ONE END WALL BASED ON S = D + 2''**

<table>
<thead>
<tr>
<th>D</th>
<th>S</th>
<th>H</th>
<th>L</th>
<th>BATTER</th>
<th>B</th>
<th>VOL.</th>
</tr>
</thead>
<tbody>
<tr>
<td>in.</td>
<td>ft.</td>
<td>in.</td>
<td>ft.</td>
<td>in./ft.</td>
<td>ft.</td>
<td>cu. yds.</td>
</tr>
<tr>
<td>12</td>
<td>1'-2&quot;</td>
<td>4'-6&quot;</td>
<td>4'-6&quot;</td>
<td>2 1/2'</td>
<td>1'-11 1/4'</td>
<td>1.10</td>
</tr>
<tr>
<td>15</td>
<td>1'-5&quot;</td>
<td>4'-9&quot;</td>
<td>5'-6&quot;</td>
<td>2 1/2'</td>
<td>1'-11 5/8'</td>
<td>1.45</td>
</tr>
<tr>
<td>18</td>
<td>1'-8&quot;</td>
<td>5'-0&quot;</td>
<td>6'-6&quot;</td>
<td>2 1/2'</td>
<td>2'-0 1/2&quot;</td>
<td>1.83</td>
</tr>
<tr>
<td>21</td>
<td>1'-11&quot;</td>
<td>5'-3&quot;</td>
<td>7'-6&quot;</td>
<td>2 1/2'</td>
<td>2'-1 1/8&quot;</td>
<td>2.26</td>
</tr>
<tr>
<td>24</td>
<td>2'-2&quot;</td>
<td>5'-6&quot;</td>
<td>8'-6&quot;</td>
<td>2 1/2'</td>
<td>2'-1 3/4&quot;</td>
<td>2.72</td>
</tr>
<tr>
<td>30</td>
<td>2'-8&quot;</td>
<td>6'-0&quot;</td>
<td>10'-6&quot;</td>
<td>2 1/2'</td>
<td>2'-3&quot;</td>
<td>3.79</td>
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<tr>
<td>36</td>
<td>3'-2&quot;</td>
<td>6'-6&quot;</td>
<td>12'-6&quot;</td>
<td>3&quot;</td>
<td>2'-7 1/2&quot;</td>
<td>5.45</td>
</tr>
<tr>
<td>42</td>
<td>3'-8&quot;</td>
<td>7'-0&quot;</td>
<td>14'-6&quot;</td>
<td>3&quot;</td>
<td>2'-9&quot;</td>
<td>6.40*</td>
</tr>
<tr>
<td>48</td>
<td>4'-2&quot;</td>
<td>7'-6&quot;</td>
<td>16'-6&quot;</td>
<td>3&quot;</td>
<td>2'-10 1/2&quot;</td>
<td>8.00*</td>
</tr>
</tbody>
</table>

* = VOLUME OF PIPE WITHIN ENDWALL HAS BEEN DEDUCTED.

H = TOTAL HEIGHT OF ENDWALL
B = BASE
D = INSIDE DIAMETER OF PIPE
S = HEIGHT OF SLOPE ABOVE FLOW LINE
L = LENGTH OF WALL = MINIMUM = D + 2"

WHEN ONE ENDWALL IS TO BE USED FOR TWO PIPES, THE DIMENSIONS OF THAT ENDWALL SHALL CONFORM TO THOSE REQ'D FOR THE LARGER PIPE, EXCEPT THE DIMEN. "L" SHALL BE INCREASED BY THE OUTSIDE DIAMETER OF THE SMALLER PIPE PLUS TWO FEET.
NOTE:
WHEN ONE ENDWALL IS TO BE USED FOR TWO PIPES, THE DIMENSIONS OF THAT ENDWALL SHALL CONFORM TO THOSE REQUIRED FOR THE LARGER PIPE, EXCEPT THE DIMENSION 'B' SHALL BE INCREASED BY THE OUTSIDE DIAMETER OF THE SMALLER PIPE PLUS TWO FEET.

\[ D = \text{DIAMETER OF PIPE} \]

### TABULATION

<table>
<thead>
<tr>
<th>D (IN.)</th>
<th>B (FT.)</th>
<th>VOLUME OF ENDWALL (CU. YDS.)</th>
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<tbody>
<tr>
<td>12</td>
<td>3'−0&quot;</td>
<td>0.49</td>
</tr>
<tr>
<td>15</td>
<td>3'−9&quot;</td>
<td>0.63</td>
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<tr>
<td>18</td>
<td>4'−6&quot;</td>
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<td>24</td>
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<td>36</td>
<td>8'−0&quot;</td>
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<td>8'−6&quot;</td>
<td>1.69</td>
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<td>48</td>
<td>9'−0&quot;</td>
<td>1.82</td>
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<td>54</td>
<td>9'−6&quot;</td>
<td>1.95</td>
</tr>
<tr>
<td>60</td>
<td>10'−0&quot;</td>
<td>2.08</td>
</tr>
<tr>
<td>72</td>
<td>11'−0&quot;</td>
<td>2.34</td>
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</tbody>
</table>
NOTES:

1. WHEN ONE END WALL IS TO BE USED FOR TWO PIPES, THE DIMENSIONS OF THE ENDWALL SHALL CONFORM TO THOSE REQ'D. FOR THE LARGER PIPE, EXCEPT THE DIMENSION "L" SHALL BE INCREASED BY THE OUTSIDE DIAMETER OF THE SMALLER PIPE PLUS TWO FEET.

2. ALL EDGES OF EXPOSED SURFACES SHALL BE CHAMFERED ONE Inch.
NOTES:
1. ALL SIZES SHOWN $L_a$, $W$, $D_o$ AND $d_{50}$ SHALL BE CALCULATED USING CONNECTICUT GUIDELINES FOR SOIL EROSION & SEDIMENT CONTROL.
2. FILTER FABRIC SHALL BE MIRAFI 500X, EXXON GTF200, AMOCO 2199 OR APPROVED EQUAL.
3. RIP RAP PROTECTION SHALL BE PLACED AT ALL DRAINAGE INLETS AND OUTLETS.
TREE AS SPECIFIED

GARDEN HOSE

GALVANIZED 12 GA. WIRE

ALTERNATE STAKING METHOD

OAK STAKE

GRADE

4" PINE BARK MULCH

EARTHEN SAUCER—6" DEPTH

ROOT BALL

12" MIN.

TOPSOIL BACKFILL

12" MIN.

STAKE
ROAD & DRAINAGE STANDARDS

STREET LIGHT

"COBRA HEAD" LUMINAIRE W/ CUTOFF OPTICS (TYPE II ) B" (RDS-402B)

TAPERED ARM WITH 2" SLIP FITTER COUPLING

ROUND TAPERED BRUSHED ALUMINUM POLE

POLE NUMBER FACING STREET

HAND HOLE

FINISH GRADE

CUT OFF OPTICS

CONCRETE FOUNDATION
SEE DETAIL DWG. #RDS-403

ELECTRICAL CONDUIT AS REQUIRED

#8 AWG COPPER GROUND (CADWELD TO ROD)

8’ X 5/8” COPPER GROUND ROD

6’

2’

FACE OF CURB

STREET

NOT TO SCALE

Town of Groton
Department of Public Works

DWN BY: GMJ

APD BY:

DATE: 3/22/99

ROAD & DRAINAGE STANDARDS

STREET LIGHT

DWG NO. RDS-402A
<table>
<thead>
<tr>
<th>STREET TYPE</th>
<th>MOUNTING HEIGHT &quot;A&quot;</th>
<th>LUMINAIRE &quot;B&quot;</th>
<th>ARM &quot;C&quot;</th>
<th>POLE SPACING</th>
<th>I.D. LABEL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>WATTS</td>
<td>LUMEN</td>
<td>TYPE*</td>
<td>NUMERAL</td>
</tr>
<tr>
<td>COLLECTOR</td>
<td>30'</td>
<td>150</td>
<td>16,000</td>
<td>HPS</td>
<td>6'</td>
</tr>
<tr>
<td>RESIDENTIAL ACCESS</td>
<td>25'</td>
<td>100</td>
<td>9,500</td>
<td>HPS</td>
<td>6'</td>
</tr>
<tr>
<td>RESIDENTIAL VILLAGE</td>
<td>25'</td>
<td>70</td>
<td>6,300</td>
<td>HPS</td>
<td>6'</td>
</tr>
<tr>
<td>RESIDENTIAL SUB-VILLAGE</td>
<td>20'</td>
<td>50</td>
<td>4,000</td>
<td>HPS</td>
<td>4'</td>
</tr>
</tbody>
</table>

*HPS = HIGH PRESSURE SODIUM

**NOTE:**
1. LUMINAIRE SHALL HAVE CUTTOFF OPTICS SUCH AS GE MODEL M-250R2.
NOT TO SCALE

EXPOSED BOLT PROJECTION VARIES WITH POLE MANUFACTURER. CONSULT MANUFACTURERS DIRECTIONS FOR BOLT PROJECTION.

1" X 1" CHAMFER
FINISH GRADE (ALL SIDES)
SEPARATE CONDUIT FOR GROUND WIRE

#8 AWG COPPER GROUND (CADWELD TO GROUND ROD)
5/8" X 8' COPPER GROUND ROD

4 ANCHOR BOLTS
3/4" X 25"-20'/25' POLE
1" X 36"-30' POLE
OR AS REQUIRED BY MANUFACTURER

#3 HOOP STIRRUPS AT 12" ON CENTER
BACK FILL WITH CLEAN COMPACTED GRAVEL
UNDISTURBED EARTH

CONCRETE

#4 REBAR AT ANCHOR BOLTS

GROUND WIRE CONDUIT
CONDUIT (AS REQUIRED)
BOLT CIRCLE SIZE VARIES WITH POLE MANUFACTURER. USE TEMPLATE SUPPLIED WITH POLE FOR BOLT LOCATION.

NOTES:
1. AFTER PLUMBING POLE, INSTALL NON-SHRINK GROUT BETWEEN POLE ANCHOR BASE AND TOP OF FOOTING. PROVIDE WEEP HOLE FOR MOISTURE TO DRAIN.
2. FOOTING SIZES SHOWN ARE MINIMUM. A LICENSED PROFESSIONAL ENGINEER SHALL VERIFY SIZE BASED ON SOIL CONDITIONS, WIND CONDITIONS, AND POLE AND LUMINAIRE SIZE AND WEIGHT.
3. PRECAST FOOTINGS MAY BE USED WITH APPROVAL BY THE TOWN.

Town of Groton
Department of Public Works
ROAD & DRAINAGE STANDARDS
STREET LIGHT FOOTING

DWN BY: GMJ
DATE: 3/22/99

APD BY:

REVISION

DWG NO. RDS-403
NOTES:

1. CONCRETE END ANCHOR AND ALL RAIL COMPONENTS ARE DETAILED ON, AND SHALL CONFORM TO, CONNECTICUT D.O.T. DWG. 910-C.

2. ALL RAILS, POSTS AND COMPONENTS SHALL BE GALVANIZED.

3. TYPE I END ANCHORAGE SHOWN. TYPE II END ANCHORAGE (RDS-406) MAY BE USED WHERE NECESSARY.

** OFFSET DIMENSIONS AS SHOWN FOR R–I END ANCHORAGE TYPE I APPLY TO TRAILING END. LOCATION OF LEADING END ANCHORAGE AS DIRECTED.

TABLE "A"

<table>
<thead>
<tr>
<th>CURVATURE (DEGREE OR RADIUS)</th>
<th>POST SPACING</th>
</tr>
</thead>
<tbody>
<tr>
<td>LESS THAN 26' (220' RAD OR MORE)</td>
<td>12'-6&quot;</td>
</tr>
<tr>
<td>219 FT. TO 111 FT. *</td>
<td>6'-3&quot;</td>
</tr>
<tr>
<td>110 FT. TO 76 FT. *</td>
<td>4'-2&quot;</td>
</tr>
<tr>
<td>75 FT. TO 50 FT. *</td>
<td>3'-1 1/2&quot;</td>
</tr>
<tr>
<td>LESS THAN 50 FT.</td>
<td>USE NOT RECOMMENDED</td>
</tr>
</tbody>
</table>

* FOR CURVES WITH RADII OF 150' OR LESS, ALL RAIL MEMBERS SHALL BE FABRICATED TO THE PROPER RADIUS.
NOTE:
* WHERE THIS DIMENSION IS LESS THAN 2'-0" THE HEIGHT WILL BE MEASURED FROM THE GUTTER LINE (AS SHOWN) AND WHERE IT IS GREATER THAN 2'-0" THE NORMAL 33" HEIGHT WILL BE MEASURED FROM THE GROUND LINE (SECTION A-A).
NOTES:

1. CONCRETE END ANCHOR AND ALL RAIL COMPONENTS ARE DETAILED ON, AND SHALL CONFORM TO, CONNECTICUT D.O.T. DWG. 910-C.

2. BACK UP PIECES TO BE CLASS A (12 GA.) FOR ALL RAIL, AND TO BE PLACED BEHIND RAIL ELEMENTS AT NON-SPLICE POSTS.

3. FOR CURVES WITH RADII OF 150' OR LESS ALL RAIL MEMBERS SHALL BE FABRICATED TO THE PROPER RADIUS.

4. STRUCTURAL SHAPE W6 X 9 MAY BE USED IN PLACE OF W6 X 8.5 FOR POSTS OR BRACKETS.

5. TYPE I END ANCHORAGE SHOWN. TYPE II END ANCHORAGE (RDS-406) MAY BE USED WHERE NECESSARY.

6. ALL RAILS, POSTS AND COMPONENTS SHALL BE GALVANIZED.

** OFFSET DIMENSIONS AS SHOWN FOR R-B END ANCHORAGE TYPE I APPLY TO TRAILING END ONLY. LOCATION OF LEADING END ANCHORAGE AS DIRECTED.
NOTE:

* WHERE THIS DIMENSION IS LESS THAN 2’-0” THE
  HEIGHT WILL BE MEASURED FROM THE GUTTER LINE
  (AS SHOWN) AND WHERE IT IS GREATER THAN 2’-0”
  THE NORMAL 27” HEIGHT WILL BE MEASURED FROM
  THE GROUND LINE (SECTION A-A).
NOTES:

1. CONCRETE END ANCHOR AND ALL RAIL COMPONENTS ARE DETAILED ON, AND SHALL CONFORM TO, CONNECTICUT D.O.T. DWG. 910–C.

2. END ANCHORAGE TYPE II WILL BE USED ONLY WHERE NARROW OPENINGS ARE REQUIRED ALONG THE GUIDE RAILING ALIGNMENT, SUCH AS DRIVEWAYS.

3. OTHER RADIUS CONFIGURATIONS WHICH CAN BE DEMONSTRATED TO PROVIDE THE INSTALLATIONS SHOWN IN END ANCHORAGES TYPE II MAY BE APPROVED.

DETAIL "A"
SHOP CURVED RAIL
MAILBOX TO MEET U.S. POSTAL SERVICE REGULATIONS. SECURELY ATTACH TO POST.

MAXIMUM POST SIZE—
- 4” X 4” WOOD
- 2” DIAMETER STEEL OR ALUMINUM

DO NOT SET POST IN CONCRETE

ROAD

GRASS

EDGE OF PAVEMENT

24” MAX.

41-45”

6-8”

NOT TO SCALE
MAILBOX TO MEET U.S. POSTAL SERVICE REGULATIONS. SECURELY ATTACH TO POST.

MAXIMUM POST SIZE—
- 4” X 4” WOOD
- 2” DIAMETER STEEL OR ALUMINUM

DO NOT SET POST IN CONCRETE

FACE OF ASPHALT CURB

24” MAX.

ROAD

GRASS

MAILBOX INSTALLATION

ASPHALT CURBING

NOT TO SCALE

Town of Croton
Department of Public Works

DATE: 8/22/03

DWG NO. RDS-408
MAILBOX TO MEET U.S. POSTAL SERVICE REGULATIONS. SECURELY ATTACH TO POST.

MAXIMUM POST SIZE—
- 4 X 4 WOOD
- 2” DIAMETER STEEL OR ALUMINUM

DO NOT SET POST IN CONCRETE

FACE OF CONCRETE CURB

41-45”

GRASS

24” MAX.

6-8”

ROAD
NOTE:
1. FILTER FABRIC SHALL BE MIRAFI "SILT FENCE", EXXON GTF 180, AMOCO 1380, OR APPROVED EQUAL.
NOTE:
1. USE SINGLE OR DOUBLE BALE HEIGHT AS REQUIRED.
NOTE:
1. FILTER FABRIC SHALL BE MIRAFI "SILT FENCE", EXXON GTF 180, AMOCO 1380 OR APPROVED EQUAL.
CATCH BASIN BARRIERS

FILTER FABRIC

SOIL

CATCH BASIN TOP
NOTE:
1. FILTER FABRIC SHALL BE MIRAFI 500X, EXXON GTF 200, AMOCO 1199 OR APPROVED EQUAL.
A. Bury the top end of the jute strip in a trench 6” or more in depth.

B. Tamp the trench full of soil. Secure with row of staples, 6” spacing, 4” down from the trench.

C. Overlap—bury upper end of lower strip as in ‘A’ and ‘B’. Overlap end of top strip 4” and staple.

D. Erosion stop—fold of jute buried in slit trench and tamped; double row of staples.

NOTES:
1. 4” overlap of jute strips where two or more strip widths are required. Staples on 18” centers.
2. Staple outside on 2’ centers.

Typical staples
No. 8 gauge wire
6” 10”
CONCRETE MONUMENT

3000#/28-DAY CONCRETE

RECESS FOR PLAQUE
2 1/2" DIA. X 3/8" DEEP

HOLE FOR PLAQUE
STEM - 3/4" DIA. X 3"

3" X 3" REBAR CAGE
CENTER IN CONCRETE
NO. 4 BAR

1/2" CHAMFER

3" X 3" REBAR CAGE
CENTER IN CONCRETE
NO. 4 BAR

2 1/2" DIA. X 3/8" DEEP

HOLE FOR PLAQUE
STEM - 3/4" DIA. X 3"

3" X 3" REBAR CAGE
CENTER IN CONCRETE
NO. 4 BAR

1/2" CHAMFER

3000#/28-DAY CONCRETE

CONCRETE MONUMENT

BRONZE PLAQUE

2" DIA. PLAQUE

1/4" LETTERS STAMPED IN BRONZE

3/4" DIA. POLISHED SURFACE

1/4"

2 1/2"

5/8" DIA. STEM

1"

3/8"