STEEL BARBED-TAPE CONCERTINA (BARBS OMITTED FOR CLARITY)

BOTH TAPE COILS TIED TO TOP BARBED WIRES AT EVERY SPIRAL TURN ON BOTH SIDES OF OUTRIGGER

LOCK PIN (TYP.)

3/8" PLAIN PIN RIVETED FLUSH (TYP.)

BARBED-TAPE MOUNTING DETAIL
CONCRETE DEADMAN "B"

7'-6"

3/4" CABLE BARRIER (TYP.)

"B" CABLES

LINE POST

CONCRETE DEADMAN "A"

LINE POST

7'-6"

ELEVATION

NOTE: CABLE "A" & "B" DESIGNATION IS FOR CLARIFICATION OF ROUTING OF CABLES.

PLAN

BRACE PANEL W/DEADMEN DETAIL
# Chain Link Fence Foundation

**Gate Post**

<table>
<thead>
<tr>
<th>Gate Leaf Width</th>
<th>Gate Post (OD)</th>
<th>Fabric Height</th>
<th>&quot;A&quot; Diam</th>
<th>&quot;B&quot; Depth</th>
<th>&quot;C&quot; Post Embed.</th>
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</thead>
<tbody>
<tr>
<td>3' TO 6'</td>
<td>2.875&quot;</td>
<td>3' TO 5'</td>
<td>12&quot;</td>
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<td></td>
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<td>6' TO 9'</td>
<td>14&quot;</td>
<td>42&quot;</td>
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<tr>
<td></td>
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<td>10' TO 12'</td>
<td>16&quot;</td>
<td>46&quot;</td>
<td>44&quot;</td>
</tr>
<tr>
<td>7' TO 12'</td>
<td>4.000&quot;</td>
<td>3' TO 5'</td>
<td>14&quot;</td>
<td>38&quot;</td>
<td>36&quot;</td>
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<td>42&quot;</td>
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<tr>
<td></td>
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<td>10' TO 12'</td>
<td>18&quot;</td>
<td>46&quot;</td>
<td>44&quot;</td>
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<tr>
<td>13'</td>
<td>6.625&quot;</td>
<td>8'-0&quot;</td>
<td>16&quot;</td>
<td>42&quot;</td>
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**Line and Terminal Posts**

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<tr>
<th>Fabric Height</th>
<th>Type Post</th>
<th>&quot;A&quot; Diam</th>
<th>&quot;B&quot; Depth</th>
<th>&quot;C&quot; Post Embedment</th>
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<td>26&quot;</td>
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<td>TERMINAL</td>
<td>10&quot;</td>
<td>32&quot;</td>
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<tr>
<td>5'-0&quot;</td>
<td>LINE</td>
<td>8&quot;</td>
<td>32&quot;</td>
<td>30&quot;</td>
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<td>LINE</td>
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<td>38&quot;</td>
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<tr>
<td>10'-0&quot; TO 12'-0&quot;</td>
<td>LINE</td>
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<td>36&quot;</td>
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<td>TERMINAL</td>
<td>18&quot;</td>
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<tr>
<td>13'-0&quot; TO 18'-0&quot;</td>
<td>LINE</td>
<td>24&quot;</td>
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<td>TERMINAL</td>
<td>24&quot;</td>
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<td>40&quot;</td>
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</tbody>
</table>

**Note:** Terminal posts include end, corner, and pull posts.

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Samples from [www.AutoCADDetails.net](http://www.AutoCADDetails.net)

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Samples from [www.AutoCADDetails.net](http://www.AutoCADDetails.net)
CHAIN LINK FENCE

- Post Cap
- End Rail
- 1 5/8" O.D. Top Rail
- 2" O.D. Post @ 10' O.C.
- #11 Gauge Chain Link Fence
- Stretcher Bar
- Bottom Tension Wire
- Finish Grade
- Concrete Base
- Compacted Subsoil

Samples from www.AutoCADDetails.net
CONCRETE BASE

SEE BARBED-TAPE MOUNTING DETAIL

10" MIN. DIA.

LINE POST

GRADE

6 STRANDS OF BARBED-WIRE

STEEL BARBED-TAPE CONCERTINA (2 COILS SPIRALED IN OPPOSITE DIRECTIONS)

CHAIN-LINK FABRIC (9 GAUGE, 2 MESH)

BONOM OF FABRIC

TRUSS ROD (3/8" MIN. DIA.)

10'-0" MAXIMUM LINE POSTS TO BE EQUALLY SPACED

16" MIN. DIA.

CORNER, END, OR PULL POST

TOP TENSION WIRE

LINE POST

BRACE RAIL

TIE WIRES OR CLIPS (TYP.)

BOTTOM OF FABRIC

FABRIC WIDTH

TIE WIRES (TYP.) (12" O.C. MAX)

CHAIN-LINK SECURITY FENCE DETAIL
CHAIN-LINK SECURITY FENCE DETAIL
NOTE: PIPE GUARD FOUNDATION AND CONCRETE DEADMAN MAY BE PLACED AS ONE CONCRETE FOUNDATION.

CORNER OR END DETAIL WITH DEADMAN
3'x3'x1'-6" CONCRETE DEADMAN

3/4" CABLE BARRIER

U-BOLT

16" DIA.

4" DIA. CABLE ANCHOR POST

SWAGED EYE END

1 1/4" TURNBUCKLE W/ JAW END PULL

1 1/4" THREADED ROD (GALVANIZED)

4"x4"x 1/4" ANCHOR PLATES (THREADED OR WELDED)

UNDISTURBED SOIL

DEADMAN DETAIL

3'3"x1'-6" CONCRETE DEADMAN

UNDISTURBED SOIL

4"x4"x 1/4" ANCHOR PLATES (THREADED OR WELDED)
DOUBLE SWING GATE (TYPE FE7 FENCE)
EXTENSION ARM DETAILS

LINE POST

CORNER POST

1'-0"

1'-10"

7.5" (TYP.)

35D

3/8" PLAIN PIN RIVETED FLUSH (TYP.)

45D

6" (TYP.)

3/8" PLAIN PIN RIVETED FLUSH (TYP.)

BARBED WIRE (TYP.)
EXTENSION ARM DETAILS

LINE POST

LOCK PIN (TYP.)

3/8" PLAIN RIVETED FLUSH (TYP.)

45D

45D

CORNER POST

LOCK PIN (TYP.)

3/8" PLAIN RIVETED FLUSH (TYP.)

35D

BARBED WIRE (TYP.)

35D

1'-10"

7'-5" (TYP.)
GROUNDING DETAIL

FENCE POST

#8 AWG SOLID COPPER WIRE

MOLDED EXOTHERMIC WELD OR APPROVED CLAMP-TYPE FITTING OF COPPER

3/4" DIA. COPPER-CLAD STEEL GROUND ROD

Samples from www.AutoCADDetails.net
GUARDRAIL DETAIL

CONCRETE FLOOR

ENCASE W/ CONCRETE (TYPICAL)

6" GUARDRAIL (SCH. 40)

Samples from www.AutoCADDetails.net
COMPRESSION SPRING
WITH 500 LB. LOAD CAPACITY

GUIDE WHEEL DETAIL
10"x3" "V" GROOVED WHEEL

COMPRESSION SPRING

3/16"

1/4" x 2 1/2" P

5/8" BOLT

GUIDE WHEEL DETAIL
9-GAGE TIE WIRES (2'-0" O.C. MAX.)

FABRIC

TOP OR BRACE RAIL ATTACHMENT

H-BEAM

TIE WIRE (15" O.C. MAX. AND WITHIN 4" FROM TOP AND BOTTOM OF FABRIC)

ROUND POST

TIE WIRE (15" O.C. MAX. AND WITHIN 4" FROM TOP AND BOTTOM OF FABRIC)

LINE POST ATTACHMENTS
ORNAMENTAL IRON FENCE DETAIL

- Pressed steel caps on end of tube.
- Die pressed point on end of tube.
- Up pressed steel caps to centerline of post (typ.)
- 3/4" sq., 16 ga. pickets @ 4 3/4" c. c.
- 2 1/2" sq., 11 ga. line post (typ.)
- 1 1/4" grade set posts to a depth of the frost line; 4'-6" minimum
- 8' - 0" maximum
- Line posts to be equally spaced
- 10" min. dia.
- 1 1/2" sq., 14 ga. top and bottom rail
- Finished grade concrete base
- Set posts to a depth of the frost line; 4'-6" minimum
- Concrete of the frost base and bottom rail, 4' - 6" max.
PERGOLA SECTION

- PERGOLA (CEDAR)
- 4x4 POSTS; WITH 2x4 ATTACHMENT
- SCREEN/HAND RAIL (SUPPORT FOR INFORMATION SIGNS)
- NEW 4" CONCRETE WALK
- CONCRETE UNIT PAVERS (HEX PATTERN)
- CONCRETE PIERS (TAKEN TO FROST)
PIPE GUARD DETAIL

NOTE: STEEL PIPE SHALL BE GALVANIZED (2.0 OZ. ZINC/SQ. FT.) & HAVE A MINIMUM WALL THICKNESS OF 0.322 INCHES.
Precast Conc. Bumper W/ 2 each 3/4" Holes thru Curb @ 18" from each end.

2 #5 Anchor Bars

1 1/2" Asphallic Conc. Surface Course

3" Asphallic Conc. Base

5" Granular Base Course

Compacted Subgrade

PRECAST CONC. PARKING BUMPER
ALL BARBED-WIRE STRANDS SHALL BE WRAPPED TWICE AROUND END POST AND STAPLED AT LEAST 4 TIMES.
ALL BARBED-WIRE STRANDS SHALL BE WRAPPED TWICE AROUND END POST AND STAPLED AT LEAST 4 TIMES.

CHAIN AND PADLOCK

ROAD SURFACE

TYPICAL PANEL GATE DETAIL
WIRE ROPE CLAMPS (TYP.)
SEE WIRE ROPE ROPE CLAMP
DETAIL

GATE POST
GATE FRAME
THE TOP AND BOTTOM WOOD CROSS BRACES SHALL BE PLACED 6" FROM THE END OF THE WOOD PICKETS. THE MIDDLE BRACE SHALL BE CENTERED WITHIN THE FENCE.

INSTALLY 1 x 6 BOARD AT END OF FENCE IF SIDE IS VISIBLE

ATTACH EACH 2 x 6 CROSS BRACE TO THE 4 x 4 TREATED WOOD POST WITH 2 3/4" x 1/4" GALVANIZED LAG BOLTS WITH WASHERS (TYP.)

ATTACH EACH 1 x 6 WOOD PICKET TO THE 2 x 6 CROSS BRACE WITH 3 GALVANIZED NAILS (TYP.)

1 x 6 TREATED WOOD PICKET (TYP.)

POST (TYP.)

8'-0" POST FACE TO FACE (MAX.)

CONCRETE INSTALL 1 x 6 BOARDS FOUNDATION VERTICALLY, 2 x 6'S MAY SLOPE OR BE HORIZONTAL TO ACCOUNT FOR GRADE CHANGES, SPACE 1 x 6 BOARDS EQUALLY (30" MAX)

6" GRAVEL BASE TO ACCOUNT FOR GRADE

COMPACTED SUBGRADE (TYP.)

ELEVATION

PLAN VIEW

WOOD FENCE DETAILS
WOOD FENCE GATE DETAILS

- **GATE OPENING = 10’**
- **LEAF = 5’**

HEAVY DUTY WROUGHT STEEL T-HINGE (TYP.)

HEAVY DUTY DOOR SECURITY SURFACE BOLT

**OUTSIDE VIEW**

1 x 6 TREATED WOOD PICKET (TYP.)

INSTALL 1 x 6 BOARDS VERTICALLY, 2 x 6’s MAY SLOPE OR BE HORIZONTAL TO ACCOUNT FOR GRADE CHANGES. SPACE 1 x 6 BOARDS EQUALLY (3/8” MAX.)

PLACE LOWER END OF BRACE TOWARDS THE HINGE, NOT THE LATCH

CONCRETE FOUNDATION, TYP.

COMPACTED SUBGRADE, TYP.

6” GRAVEL BASE

**INSIDE VIEW**

2 x 6 TREATED WOOD CROSS BRACE (TYP.)

1/8” TENSION WIRE WITH A 3” “EYE & EYE” TURNBUCKLE, WIRE ROPE THIMBLES AND CLAMPS. SECURE EACH END OF WIRE WITH SCREW EYEBOLTS.

4 x 4 TREATED WOOD POST (TYP.)

2 x 4 TREATED WOOD STRINGER AND BRACE (TYP.)

TOENAIL BRACE TO STRINGER

ACCOUNT FOR GRADE CHANGES.

SPACE 1 x 6 BOARDS EQUALLY (3/8” MAX.)

**WOOD FENCE GATE DETAILS**
GATE OPENING = 10'  
LEAF = 5'  

HEAVY DUTY WROUGHT STEEL T-HINGE (TYP.)  
HEAVY DUTY DOOR SECURITY SURFACE BOLT  

PLACE LOWER END OF BRACE TOWARDS THE HINGE, NOT THE LATCH  

1 x 6 TREATED WOOD PICKET (TYP.)  
2x4 TREATED WOOD STRINGER AND BRACE (TYP.)  
1/8" TENSION WIRE WITH A 3" "EYE & EYE" TURNBUCKLE, WIRE ROPE THIMBLES AND CLAMPS. SECURE EACH END OF WIRE WITH SCREW EYEBOLTS.  

WOOD FENCE GATE DETAILS
WOOD POST DETAILS

4 x 4 TREATED WOOD POST (TYP.)

3/8" DIA. GALVANIZED A307 BOLTS (TYP.)

TUBULAR STEEL 4" x 4" x 1/4"
FENCE POST SLEEVE (TYP.)
6'-0" HIGH REDWOOD BOARD ON BOARD

PLAN

4 x 4 REDWOOD POSTS (TYP.)
1 x 6 REDWOOD VERTICALS (TYP.)
2 x 4 RDWD. RAILS (TYP.)
GRADE
4" TOPSOIL
FILL VOID AROUND POST W/CONCRETE

ELEVATION
Wooden Fence Detail
CHAINLINK GATE TYPES

SCALE: 1/4” = 1’-0”
1. FENCE POST.
2. FINISH GRADE.
3. (2) #4 REBARS CONTINUOUS.
4. CONCRETE MOW STRIP.
5. FENCE POST FOOTING.

<table>
<thead>
<tr>
<th>FENCE HEIGHT</th>
<th>POST DEPTH</th>
<th>FTG. DEPTH</th>
<th>FTG. DIAM.</th>
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</thead>
<tbody>
<tr>
<td>3'–0&quot; TO 6'–0&quot;</td>
<td>24&quot;</td>
<td>30&quot;</td>
<td>12&quot;</td>
</tr>
<tr>
<td>6'–1&quot; TO 8'–0&quot;</td>
<td>30&quot;</td>
<td>42&quot;</td>
<td>12&quot;</td>
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<tr>
<td>8'–1&quot; TO 12'–0&quot;</td>
<td>36&quot;</td>
<td>48&quot;</td>
<td>12&quot;</td>
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</table>
1. 1” EXPANSION JOINT.
2. FENCE POST – SEE TABLE.
3. CONCRETE SLAB WITH SYNTHETIC REINFORCING FIBERS.
4. FINISH GRADE.
5. (2) #4 REBARS CONTINUOUS.
6. SUBGRADE.
7. CONCRETE MOW STRIP – SCORE AT 48” O.C.
8. FENCE FOOTING – SEE TABLE BELOW.

<table>
<thead>
<tr>
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<tr>
<td>3'-0” TO 6'-0”</td>
<td>24”</td>
<td>30”</td>
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<td>6'-1” TO 8'-0”</td>
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<td>12”</td>
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<tr>
<td>8'-1” TO 12'-0”</td>
<td>36”</td>
<td>48”</td>
<td>12”</td>
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</table>
1. (2) #5 CONTINUOUS BOND BEAM.
2. #5 REBAR AT 48" O.C.
3. SOLID GROUT ALL CELLS BELOW GRADE.
4. CONTINUOUS FOOTING WITH (2) #4 REBARS CONTINUOUS.
5. SOLID BOTTOM Lintel BLOCK TURNED UPSIDE DOWN.
6. 8 X 8 X 16 CMU - PAINTED.
7. FINISH GRADE.
8. 5" CONCRETE SLAB ON 4" A.B.C.
9. 8 X 8 X 16 SPLITFACE CMU.

MASSONRY WALL

SCALE: 3/8" = 1'-0"
1. (2) #5 REBARS CONTINUOUS @ BOND BEAM.
2. #5 REBAR AT 48" O.C.
3. SOLID GROUT ALL CELLS BELOW GRADE.
4. CONTINUOUS FOOTING WITH (3) #4 REBARS CONTINUOUS.
5. SOLID BOTTM LINTEL BLOCK TURNED UPSIDE DOWN - PAINTED.
6. 8 X 8 X 16 CMU - PAINTED.
7. CONCRETE SLAB ON A.B.C.
8. ASPHALTIC CONCRETE PAVEMENT OVER A.B.C.
9. WAINSCOT OF 8 X 8 X 16 SPLITFACE CMU.

MAZSONRY WALL

SCALE: 3/8" = 1'-0"

02C-1004
1. 6” CMU SCREEN WALL.
2. CMU TO BE SEALED AND PAINTED ON ONE SIDE ONLY.
3. #4 REBAR FULL HEIGHT AND GROUT SOLID @ 48" O.C.
4. EXPANSION JOINT.
5. STUCCO FINISH OR SPLIT FACE CMU.
1. SELF CLOSING HINGES.
2. PROVIDE 1 X 4 CEDAR SLATS AT POOL EQUIPMENT GATE.
3. PASSAGE LEVER - SELF LATCHING (DEAD-BOLT ONLY AT POOL EQUIPMENT GATE).
4. 1 1/2" SQUARE STEEL TUBE AT TOP AND BOTTOM AND AT VERTICAL AT 10'-0" O.C. MAX.
5. FINISHED GRADE.
6. 12" Ø CONCRETE FOOTING.
7. 1/2" SQUARE STEEL PICKETS AT 4 3/8" O.C.

TUBE STEEL POOL FENCE

3/8" = 1'-0"
1. Self closing hinges.
2. Provide 1 x 4 cedar slats at pool equipment gate.
3. Passage lever – self latching (dead-bolt only at pool equipment gate).
4. 1 1/2” square steel tube at top and bottom and at vertical at 10’-0” O.C. max.
5. Finished grade.
6. 12” Ø concrete footing.
7. 1/2” square steel pickets at 4 3/8” O.C.
1. SCREW ATTACH GALVANIZED HAT CHANNEL TO LEDGER.
2. 1 1/2" GALVANIZED HAT CHANNELS SPACED FOR 50% SCREEN.
3. 3 X 6 LEDGER WITH 1/2" ANCHOR BOLTS AT 48" O.C., MAXIMUM—SET ENDS INTO GROUTED CELL.
4. 8" C.M.U. ENCLOSURE — SEE SITE PLAN FOR HEIGHT AND LOCATION.

C.M.U. POOL EQUIPMENT FENCE
1" = 1’-0”
02C-1007
1. Screw attach galvanized hat channel to ledger.
2. 1 1/2" galvanized hat channels spaced for 50% screen.
3. 3 x 6 ledger with 1/2" anchor bolts at 48" o.c., maximum – set ends into grouted cell.
4. 8" C.M.U. enclosure – see site plan for height and location.
1. EDGE OF CONCRETE WALK.
2. STEEL PIPE RAILING POST.
3. WELD, GRIND SMOOTH.
4. STAINLESS STEEL SECTION WITH SAME WALL THICKNESS AS PIPE RAILING POST.
5. ANCHOR COMPOUND.

NOTE: STAINLESS STEEL POST BASE SHALL BE USED ONLY ON EXTERIOR RAILINGS.
1. EDGE OF CONCRETE WALK.
2. STEEL PIPE RAILING POST.
3. WELD, GRIND SMOOTH.
4. STAINLESS STEEL SECTION WITH SAME WALL THICKNESS AS PIPE RAILING POST.
5. ANCHOR COMPOUND.

NOTE: STAINLESS STEEL POST BASE SHALL BE USED ONLY ON EXTERIOR RAILINGS.
1. TOOLED EDGE.
2. CONCRETE SLAB ON A.B.C.
3. CONCRETE CURB WITH (2) #4 REBARS CONTINUOUS.
4. LINE OF 12" DIA. CONCRETE FOOTING @ FENCE POST (WHERE OCCURS).
5. SUB GRADE.
6. ORNAMENTAL IRON FENCE.
7. RADIUS EDGE.
8. FENCE REQUIRED IF DIMENSION "A".Equals OR IS GREATER THAN 30".
1. 3/4” TOOLED EDGE.
2. CONCRETE SLAB ON A.B.C.
3. CONCRETE CURB REINFORCEMENT WITH (2) #4 REBARS CONTINUOUS.
4. LINE OF 12” DIA. CONCRETE FOOTING @ FENCE POST WHERE OCCURS.
5. FINISH GRADE.
6. ORNAMENTAL IRON FENCE.

FENCE CURB @ SAND

1” = 1’-0”

02C-3002
1. TOP HINGE
2. GATE JAMB POST
3. BOTTOM HINGE
4. CANE BOLT
5. GATE STOP
6. 16" SQUARE X 6'-3" DEEP CONCRETE FOOTING
7. SOLID BOTTOM Lintel BLOCK TURNED UPSIDE DOWN
8. 8"X8"X16 STANDAPO CANE CMU
9. SPLIT-FACE CMU OFFSET BACK OF BLOCK
10. CURB
11. ELEVATION OF BAND AT ENCLOSURE WALL
12. SQUARE X GA. STEEL TUBE PICKETS @ 4" D.C. - CAP WITH 22 GA. CUP @ TOP, WELD PICKETS TO TOP AND BOTTOM RAIL

TRASH ENCLOSURE FENCE
SCALE: 3/8" = 1'-0"
02C-3003
1. CANE BOLT.
2. CONCRETE FOOTING
   16" SQ. X 4'-3"
   DEEP.
3. TOP HINGE.
4. BOTTOM HINGE.
5. GATE STRIKE.
6. 8 X 8 X 16 PAINTED
   SPLIT FACE C.M.U.
   PROJECT BACK OF
   BLOCK 1/4" BEYOND
   BACK OF STANDARD
   C.M.U. BLOCKS.
7. 8 X 8 X 16 PAINTED
   STANDARD C.M.U.
8. PAINTED SPLIT FACE
   MASONRY CAP.
9. JAMB.
1. EXPOSED FACE OF WALL SPLIT FACE BLOCK.
2. CONCRETE FOOTING – SEE STRUCTURAL.
3. TYPICAL GUARD RAIL.
4. FINISH GRADE.
5. SLOPE TOP OF WALL WHERE APPLICABLE SAW CUT BLOCK AS REQUIRED.

GUARD RAIL @ RET. WALL

SCALE: 1/2" = 1'-0'

02C-3005
1. RETAINING WALL.
2. CONCRETE FOOTING - SEE STRUCTURAL.
3. GUARD RAIL.
4. FINISH GRADE.
5. WATERPROOFING.
6. SLOPE TOP OF WALL WHERE APPLICABLE.
   SAW CUT BLOCK AS REQUIRED.
7. EXPOSED FACE OF WALL - SPLIT FACE BLOCK.

GUARD RAIL @ RET. WALL
SCALE: 1/2” = 1’-0”
02C-3006
1. RETAINING WALL – SEE STRUCTURAL.
2. CONCRETE FOOTING – SEE STRUCTURAL.
3. GUARD RAIL.
4. FINISH GRADE.
5. WATERPROOFING.
6. SOLID CAP BLOCK.
7. WEEP HOLE.
8. SLOPE TOP OF WALL WHERE APPLICABLE
   SAW CUT BLOCK AS REQUIRED.

RETAINING WALL
WITH OFFSET FOOTING

SCALE: 1/2” = 1'-0”

02C-3007
1. CVT BOLT - SEE DETAIL 18/1113
2. CONG. FOOTING - 18" # 6 OR 18" SQ. AT BLDG. X 4'-3" DEEP
3. TOP HINGE - SEE DETAIL 13/1111
4. BOTTOM HINGE - SEE DETAIL 11/1111
5. GATE STRIKE - SEE DETAIL 5/1111

O.I. GATES
SCALE: 3/4" = 1'-0"
02C-3008
1. 4" X 4" X 14 GA STEEL TUBE POST WITH 14 GA END CAP AT 10'-'0" O.C.
2. 2" X 2" 16 GA STEEL TUBE, TOP & BOTTOM RAIL.
3. PICKETS- 1" SQ. X 16 GA STEEL TUBE AT 6" O.C. CAP WITH 22 GA CAP AT TOP, WELD TO TOP & BOTTOM RAIL.
4. 12" DIA. CONCRETE FOOTING.

O.I. FENCE
SCALE: 1/2" = 1'-0"
02C-3009
1. TOP HINGE.  
2. GATE JAMB POST.  
3. BOTTOM HINGE.  
4. CANE BOLT.  
5. GATE STRIKE.  
6. 12"x12"x12" DEEP CONCRETE FOOTING.  
7. 4"x4"x13 GA. STEEL TUBE POST WITH 13 GA. END CAP.  
8. 1" SQUARE X 16 GA. STEEL TUBE PICKETS @ 6" O.C. - CAP WITH 22 GA. CAP @ TOP. WELD PICKETS TO TOP AND BOTTOM RAIL.  
9. CONCRETE CURB.  

O.I. FENCE  
SCALE: 1/4" = 1'-0"
1. 1" SQ. TUBE STEEL
   AT 6" O.C.
2. 3" SQ. TUBE STEEL POST.
3. FINISH GRADE.
4. CONCRETE MOW STRIP.
5. 12" DIA. CONCRETE FOOTING.
6. 1-1/2" X 1-1/2" TUBE STEEL
   CONTINUOUS TOP AND BOTTOM.
7. 1'-4" SQ. SINGLE SCORE CMU
   COLUMN. RAKE ALL MORTAR JOINTS.
8. PRE-CAST CONCRETE PYRAMIDAL
   COLUMN CAP.
1. 3" X 2" X 3/16" STEEL TUBE.
2. HINGE PIN - 1" DIAMETER X 2" LONG STEEL BAR.
3. HINGE - 3/4" X 3" X 4-1/2" STEEL PLATE WITH 1 1/16" DIAMETER HOLE.
4. PICKETS - 1" SQ. X 16 GA. STEEL TUBES @ 6" O.C.
5. 6" X 6" X 1/4" STEEL TUBE - FILL W/ CONC.
   USE 4" X 4" X 1/4" STEEL TUBE - FILL W/ CONC.
   AT GATES 5'-0" AND LESS IN WIDTH.
6. SMOOTH FACE @ JAMB BLOCK.
7. SPLIT FACE BLOCK WHERE APPLICABLE.
8. GATE.

GATE JAMB @ CMU WALL

SCALE: 3" = 1'-0"

02C-3012
1. 3" X 2" 3/16" STEEL TUBE.
2. PICKETS- 1" SQ. X 16 GA. STEEL TUBES @ 6" O.C.
3. 6" X 6" X 1/4" STEEL TUBE - FILL W/ CONC.
   * USE 4" X 4" X 1/4" STEEL TUBE - FILL W/ CONC.
   AT GATES 5'-0" AND LESS IN WIDTH.
4. GATE.
5. FENCE.

GATE JAMB
SCALE: 3" = 1'-0"
02C–3013
1. 3" X 2" X 3/16" STEEL TUBE.
2. HINGE PIN- 1" DIAMETER X 2" LONG STEEL BAR.
3. HINGE- 3/4" X 3" X 4 1/2" STEEL PLATE WITH 1 1/16" DIAMETER HOLE.
4. PICKETS- 1" SQ. X 16 GA. STEEL TUBES @ 6" O.C.
5. 6" X 6" X 1/4" STEEL TUBE- FILL W/ CONC.
   USE 4" X 4" X 1/4" STEEL TUBE - FILL W/ CONC.
   AT GATES 5'-0" AND LESS IN WIDTH.
6. GATE.
7. FENCE.

GATE HINGE
SCALE: 3" = 1'-0"
02C-3014
1. 3" X 2" X 3/16" STEEL TUBE
2. PICKETS- 1" SQ. X 16 GA. STEEL TUBES @ 6" O.C.
3. HINGE 3/4" X 3" X 4 1/2" STEEL PLATE W/ 1 1/16" Ø HOLE
4. HINGE PIN- 1" Ø X 2" LONG STEEL BAR
5. 1 1/2" RADIUS CORNER
6. 1/4" X 2" X 2 1/2" STEEL PLATE W/ 1 1/16" Ø HOLE
   WELD TO STEEL TUBE & HINGE PIN
7. FACE OF GATE SUPPORT
1. 3" x 2" x 3/16" STEEL TUBE.
2. PICKETS- 1" SQ. X 16 GA. STEEL TUBES @ 6" O.C. PROVIDE A 22 GA. CAP AT TOPS OF TUBES.
3. HINGE 3/4" x 3" x 4-1/2" STEEL PLATE W/ 1 1/16" Ø HOLE.
4. HINGE PIN- 1" Ø X 2" LONG STEEL BAR.
5. 1-1/2" RADIUS CORNER.
6. 1/4" x 2" x 2-1/2" STEEL PLATE W/ 1-1/16" Ø HOLE WELD TO STEEL TUBE & HINGE PIN.
7. FACE OF GATE SUPPORT.
1. 3" X 2" X 3/16" STEEL TUBE.
2. PICKETS- 1" SQ. X 16 GA. STEEL TUBES @ 6" O.C. PROVIDE A 22 GA. CAP AT TOPS OF TUBES.
3. HINGE 3/4" X 3" X 4 1/2" STEEL PLATE W/ 1 1/16" Ø HOLE.
4. HINGE PIN- 1" Ø X 2" LONG STEEL BAR.
5. 1 1/2" RADIUS CORNER.
6. 1/4" X 2" X 2 1/2" STEEL PLATE W/ 1 1/16" Ø HOLE WELD TO STEEL TUBE & HINGE PIN.
7. 1 1/2" STANDARD STEEL PIPE; CUT TO LENGTH.
8. FACE OF COLUMN SUPPORT.
9. 1/2" X 2 1/2" X 2 1/2" STEEL PLATE.
10. CONC. FOOTING 12" X 12" X 12" DEEP.

GATE BOTTOM HINGE

SCALE: 3" = 1'-0"
1. 3" X 2" X 3/16" STEEL TUBE.
2. PICKETS- 1" SQ. X 16 GA. STEEL TUBES @ 6" O.C.
3. HINGE 3/4" X 3" X 4 1/2" STEEL PLATE W/ 1 1/16" Ø HOLE.
4. HINGE PIN- 1" Ø X 2" LONG STEEL BAR.
5. 1 1/2" RADIUS CORNER.
6. 1/4" X 2" X 2 1/2" STEEL PLATE W/ 1 1/16" Ø HOLE WELD TO STEEL TUBE & HINGE PIN.
7. 1 1/2" STANDARD STEEL PIPE; CUT TO LENGTH.
8. FACE OF COLUMN SUPPORT.
9. 1/2" X 2 1/2" X 2 1/2" STEEL PLATE.
10. CONC. FOOTING 12"X12"X12" DEEP.
1. 3" x 2" x 3/16" STEEL TUBE.
2. 1 1/2" x 1 1/2" x 1/4" x 1 1/2" LONG STEEL ANGLE
   W/ 9/16" Ø HOLE FOR PADLOCK RADIUS CORNERS.
3. RADIUS CORNERS.
1. 2" STD. STEEL PIPE SLEEVE SET IN CONC. ONE IN OPEN & ONE IN CLOSED POSITION.
2. PICKETS- 1" SQ. X 16 GA. STEEL TUBES @ 4" O.C.
3. 3" x 2" x 3/16" STEEL TUBE.
4. 2" STANDARD STEEL PIPE.
5. 1/4" x 1-1/2" x 1/4" x 1-1/2" STEEL PLATE.
6. 1-1/2" x 1-1/2" x 1/4" x 1-1/2" LONG STEEL ANGLE W/ 9/16" Ø HOLE FOR PADLOCK, RADIUS DERRERS.
7. CANE BOLT IN CLOSED POSITION.
8. CANE BOLT IN OPEN POSITION.
9. 1" X 1" X 1/4" STEEL STOP, WELD TO STEEL TUBE.
10. 1" X 1" X 1/4" STEEL STOP, WELD TO CANE BOLT.
1. 4" X 4" X 13 GA STEEL TUBE POST WITH 13 GA END CAP AT 10'-0" O.C. MAX.
2. 2" X 2" 16 GA STEEL TUBE, TOP & BOTTOM RAIL.
3. PICKETS- 1" SQ. X 16 GA STEEL TUBE AT 6" O.C. CAP WITH 22 GA CAP AT TOP. WELD PICKETS TO TOP AND BOTTOM RAIL.
4. 12" DIA. CONCRETE FOOTING.
1. 1” SQ. TUBE STEEL PICKETS AT 6” O.C. MAXIMUM.
2. FINISH GRADE.
3. 12” WIDE X 4” DEEP CONCRETE MOW STRIP.
4. 12” DIA. X 3’-0” DEEP FOOTING (10’-0” MAXIMUM SPACING).
5. 1/2” RADIUS TOOLED EDGE.
6. 1-1/2” X 1-1/2” TUBE STEEL TOP AND BOTTOM.
7. 3” SQ. TUBE STEEL POST AT 10’-0” O.C. MAXIMUM.
8. STEEL POST CAP SLOPE ALL FOUR SIDES.

FENCE SECTION
SCALE: 1/2” = 1’-0”

02C-3022
1. 6” HIGH VERTICAL CONC. CURB.
2. CONC. FOOTING - 18” Ø OR 16” SQ. AT BLDG. X 4’-3” DEEP.
3. TOP HINGE.
4. BOTTOM HINGE.
1. 3” SQ. STEEL TUBE POST AT 10'-0” O.C. MAX. WITH STEEL POST CAP.
2. 1-1/2” X 1-1/2” STEEL TUBE, TOP AND BOTTOM RAIL.
3. PICKETS- 1” SQ X 16 GA STEEL TUBE AT 6” O.C.
4. 12” Ø X 3’-3” DEEP CONC. FOOTING.
1. 3" SQ. STEEL TUBE POST AT 10'-0" O.C. WITH STEEL POST CAP.
2. 1-1/2" X 1-1/2" STEEL TUBE, TOP AND BOTTOM RAIL.
3. PICKETS- 1" SQ. X 16 GA STEEL TUBE AT 6" O.C.
4. 12" Ø X 3'-3" DEEP CONC. FOOTING
5. CONCRETE SLAB WHERE APPLICABLE
1. TOP HINGE.
2. GATE JAMB POST.
3. BOTTOM HINGE.
4. CANE BOLT.
5. GATE STRIKE.
6. 12"x12"x12" DEEP CONCRETE FOOTING.
7. BXBX16 STANDARD CMU.
8. BXBX16 SPLIT-FACE CMU.
9. CONCRETE CURB.
10. 1" SQUARE X 16 GA. STEEL TUBE PICKETS @ 4" O.C. - CAP WITH 22 GA.
    TOP. WELD PICKETS TO TOP AND BOTTOM RAIL.
11. 4"x4"x13 GA. STEEL TUBE POST WITH 13 GA. END CAP.

EQUIP. ENCLOSURE GATE
SCALE: 1/4" = 1'-0"
02C-3026
1. STRUCTURAL METAL INSERT.
2. 2" TUBING.
3. 7/16" HOLES.
4. QUICK SETTING NON-SHRINK GROUT.
5. CORED HOLE – 3" MINIMUM OUTSIDE DIAMETER, 4" MINIMUM DEPTH.
6. CONCRETE.
7. DECORATIVE 4" X 4" COVER PLATE.
8. 3 1/2" X 3 1/2" FLANGE.
9. 1" SPACER.
10. DECORATIVE CAPS.
11. FASCIA BRACKET.
12. 1" MINIMUM DEPTH.

CUSTOM MOUNTING

FLANGE MOUNTING

FASCIA MOUNTING

CORE MOUNTING

METAL GATE POST MOUNTING DETAILS

1 1/2” = 1’-0”

02C-3027
1. CUSTOM MOUNTING
2. STRUCTURAL METAL INSERT
3. 2" TUBING
4. 7/16" HOLES
5. QUICK SETTING NON-SHRINK GROUT
6. CORED HOLE - 3" MINIMUM OUTSIDE DIAMETER, 4" MINIMUM DEPTH
7. CONCRETE
8. DECORATIVE 4" X 4" COVER PLATE
9. 1" SPACER
10. DECORATIVE CAPS
11. FASCIA BRACKET
12. 1" MINIMUM DEPTH

Metal Gate Post Mounting Details
1 1/2" = 1'-0"
1. PROVIDE 1/2” Ø EYE HOOKS AT DRIVEWAY & FIRE LANE.
2. CONCRETE SLAB ON A.B.C.
3. 6” Ø SCHEDULE 40 STEEL PIPE, PAINTED & FILLED WITH CONCRETE.
4. 15” Ø CONCRETE FOOTING.
5. 1/2” EXPANSION JOINT.
6. 1/2” Ø X 4” STUDS.
1. 6” Ø STEEL PIPE
   PAINTED & FILLED WITH
   CONCRETE.
2. 1/2” EXPANSION JOINT.
3. ASPHALTIC CONCRETE PAVEMENT.
4. 18” Ø CONCRETE FOOTING.
5. 1/2” Ø X 4” STUDS.

PIPE BOLLARD IN ASPHALT

1/2” = 1’-0”

02C-5002
1. 6” Ø STEEL PIPE
   PAINTED & FILLED WITH CONCRETE.
2. 1/2” EXPANSION JOINT.
3. CONCRETE SLAB ON A.B.C.
4. 18” Ø CONCRETE FOOTING.
5. 1/2” Ø X 4” STUDS.

PIPE BOLLARD IN CONC.

1/2” = 1’-0”

02C–5003
RIGID STEEL CONDUIT, SIZE PER PLANS
#10 BARE COPPER GROUND WIRE
FINISHED GRADE
1/2" X 8'-0" COPPER GROUND ROD WITH CALDWELD CONNECTION
12" ROUND BASE, VERIFY WITH MANUFACTURER
REINFORCING: PROVIDE A MINIMUM OF (4) #4'S EACH WAY
BACK FILL WITH SUITABLE SOIL AND COMPACT TO 95%
24" ANCHOR BOLTS, BOLT SIZE AND CIRCLE PER POLE MANUFACTURER

LIGHTING BOLLARD BASE DETAIL
1/2" = 1'-0"
02C-5004
1. 6'-0" HIGH C.M.U. WALL WITH STUCCO FINISH.
2. 6" THICK CLASS 'A' CONCRETE PAD.
3. 6" EXTRUDED CONCRETE CURB.
4. 4" Ø CONCRETE FILLED STEEL POST, 5'-0" HIGH, SET IN 8" CYLINDER OF CLASS 'C' CONCRETE, 2'-0" DEEP.
5. 6 CUBIC YARD DUMPSTER.

DUMPSTER ENCLOSURE
1/8" = 1'-0"

02C-5005
1. 6'-0" HIGH C.M.U. WALL WITH STUCCO FINISH.
2. 6" THICK CLASS 'A' CONCRETE PAD.
3. 6" EXTRUDED CONCRETE CURB.
4. 4" Ø CONCRETE FILLED STEEL POST, 5'-0" HIGH, SET IN 8" CYLINDER OF CLASS 'C' CONCRETE, 2'-0" DEEP.
5. 6 CUBIC YARD DUMPSTER.

DUMPSTER ENCLOSURE

1/8" = 1'-0"

02C-5005
1. 4" Ø CONCRETE FILLED STEEL POST, 5'-0" HIGH, SET IN 16" Ø CYLINDER OF CLASS 'C' CONCRETE, 24" DEEP.
2. 8" C.M.U. ENCLOSURE, 6'-0" HIGH; STUCCO FINISH TO MATCH ADJACENT STRUCTURES.
3. FINISH GRADE.
4. FOOTING.
5. 4" CONCRETE SLAB ON GRADE.

TRASH ENCLOSURE WITH BOLLARD

3/8" = 1'-0"
1. 4" ø CONCRETE FILLED STEEL POST, 5'-0" HIGH, SET IN 16" ø CYLINDER OF CLASS 'C' CONCRETE, 24" DEEP.
2. 8" C.M.U. ENCLOSURE, 6'-0" HIGH, STUCCO FINISH TO MATCH ADJACENT STRUCTURES.
3. FINISH GRADE.
4. FOOTING.
5. 4" CONCRETE SLAB ON GRADE.