GENERAL NOTES

1. DESIGN SPECIFICATIONS:
   - Provide shop drawings in accordance with Publication 408, Section 105.02(d) and 106.5.
   - Provide AND INDICATE THE FOLLOWING MINIMUM INFORMATION:
     - General Notes
     - Fabrication Notes
     - Transportation Notes
     - Lifting and Erection Notes
   - DETERMINE THE FOLLOWING MINIMUM INFORMATION:
     - Overall Panel Length
     - Post and Panel Coarse Aggregates
     - Acoustic Profile Elevations
     - Top of Panel Elevations
   - Provide shop drawings in accordance with Section 106.5.

2. CONSTRUCTION SPECIFICATIONS AND RECOMMENDATIONS:
   - Provide shop drawings in accordance with the working stress design method and increase longitudinal and vertical stresses if permitted for Group I loadings.
   - Provide shop drawings in accordance with the working stress design method and increase longitudinal and vertical stresses if permitted for Group II loadings.
   - Provide shop drawings in accordance with the working stress design method and increase longitudinal and vertical stresses if permitted for Group III loadings.

3. WALL HEIGHTS MUST EQUAL OR EXCEED THE ACOUSTICAL PROFILE:
   - Provide shop drawings in accordance with the working stress design method and increase longitudinal and vertical stresses if permitted for Group I loadings.
   - Provide shop drawings in accordance with the working stress design method and increase longitudinal and vertical stresses if permitted for Group II loadings.
   - Provide shop drawings in accordance with the working stress design method and increase longitudinal and vertical stresses if permitted for Group III loadings.

4. PANEL HEIGHTS:
   - Provide shop drawings in accordance with the working stress design method and increase longitudinal and vertical stresses if permitted for Group I loadings.
   - Provide shop drawings in accordance with the working stress design method and increase longitudinal and vertical stresses if permitted for Group II loadings.
   - Provide shop drawings in accordance with the working stress design method and increase longitudinal and vertical stresses if permitted for Group III loadings.

5. PANEL JOINTS:
   - Provide shop drawings in accordance with the working stress design method and increase longitudinal and vertical stresses if permitted for Group I loadings.
   - Provide shop drawings in accordance with the working stress design method and increase longitudinal and vertical stresses if permitted for Group II loadings.
   - Provide shop drawings in accordance with the working stress design method and increase longitudinal and vertical stresses if permitted for Group III loadings.

6. PANEL MOUNTING POINTS:
   - Provide shop drawings in accordance with the working stress design method and increase longitudinal and vertical stresses if permitted for Group I loadings.
   - Provide shop drawings in accordance with the working stress design method and increase longitudinal and vertical stresses if permitted for Group II loadings.
   - Provide shop drawings in accordance with the working stress design method and increase longitudinal and vertical stresses if permitted for Group III loadings.

7. PANEL SPACINGS:
   - Provide shop drawings in accordance with the working stress design method and increase longitudinal and vertical stresses if permitted for Group I loadings.
   - Provide shop drawings in accordance with the working stress design method and increase longitudinal and vertical stresses if permitted for Group II loadings.
   - Provide shop drawings in accordance with the working stress design method and increase longitudinal and vertical stresses if permitted for Group III loadings.

8. PANEL DRAWINGS:
   - Provide shop drawings in accordance with the working stress design method and increase longitudinal and vertical stresses if permitted for Group I loadings.
   - Provide shop drawings in accordance with the working stress design method and increase longitudinal and vertical stresses if permitted for Group II loadings.
   - Provide shop drawings in accordance with the working stress design method and increase longitudinal and vertical stresses if permitted for Group III loadings.

9. PANEL LOCATION:
   - Provide shop drawings in accordance with the working stress design method and increase longitudinal and vertical stresses if permitted for Group I loadings.
   - Provide shop drawings in accordance with the working stress design method and increase longitudinal and vertical stresses if permitted for Group II loadings.
   - Provide shop drawings in accordance with the working stress design method and increase longitudinal and vertical stresses if permitted for Group III loadings.

10. PANEL MATERIALS:
    - Provide shop drawings in accordance with the working stress design method and increase longitudinal and vertical stresses if permitted for Group I loadings.
    - Provide shop drawings in accordance with the working stress design method and increase longitudinal and vertical stresses if permitted for Group II loadings.
    - Provide shop drawings in accordance with the working stress design method and increase longitudinal and vertical stresses if permitted for Group III loadings.

11. PANEL REINFORCEMENT:
     - Provide shop drawings in accordance with the working stress design method and increase longitudinal and vertical stresses if permitted for Group I loadings.
     - Provide shop drawings in accordance with the working stress design method and increase longitudinal and vertical stresses if permitted for Group II loadings.
     - Provide shop drawings in accordance with the working stress design method and increase longitudinal and vertical stresses if permitted for Group III loadings.

12. PANEL WALL ELEVATIONS:
     - Provide shop drawings in accordance with the working stress design method and increase longitudinal and vertical stresses if permitted for Group I loadings.
     - Provide shop drawings in accordance with the working stress design method and increase longitudinal and vertical stresses if permitted for Group II loadings.
     - Provide shop drawings in accordance with the working stress design method and increase longitudinal and vertical stresses if permitted for Group III loadings.

13. PANEL ELEVATION VIEWS:
     - Provide shop drawings in accordance with the working stress design method and increase longitudinal and vertical stresses if permitted for Group I loadings.
     - Provide shop drawings in accordance with the working stress design method and increase longitudinal and vertical stresses if permitted for Group II loadings.
     - Provide shop drawings in accordance with the working stress design method and increase longitudinal and vertical stresses if permitted for Group III loadings.

14. PANEL INSTALLATION:
     - Provide shop drawings in accordance with the working stress design method and increase longitudinal and vertical stresses if permitted for Group I loadings.
     - Provide shop drawings in accordance with the working stress design method and increase longitudinal and vertical stresses if permitted for Group II loadings.
     - Provide shop drawings in accordance with the working stress design method and increase longitudinal and vertical stresses if permitted for Group III loadings.

15. PANEL LIFTING:
     - Provide shop drawings in accordance with the working stress design method and increase longitudinal and vertical stresses if permitted for Group I loadings.
     - Provide shop drawings in accordance with the working stress design method and increase longitudinal and vertical stresses if permitted for Group II loadings.
     - Provide shop drawings in accordance with the working stress design method and increase longitudinal and vertical stresses if permitted for Group III loadings.

NOTES TO FABRICATOR

1. PROVIDE SHOP DRAWINGS IN ACCORDANCE WITH PUBLICATION 408, SECTION 105.02(d) AND 106.5.
2. PROVIDE SHOP DRAWINGS IN ACCORDANCE WITH THE FOLLOWING MINIMUM INFORMATION:
   - General Notes
   - Fabrication Notes
   - Transportation Notes
   - Lifting and Erection Notes
3. PROVIDE THE FOLLOWING MINIMUM INFORMATION:
   - Overall Panel Length
   - Post and Panel Coarse Aggregates
   - Acoustic Profile Elevations
   - Top of Panel Elevations
4. PROVIDE THE FOLLOWING MINIMUM INFORMATION:
   - General Notes
   - Fabrication Notes
   - Transportation Notes
   - Lifting and Erection Notes
5. PROVIDE THE FOLLOWING MINIMUM INFORMATION:
   - Overall Panel Length
   - Post and Panel Coarse Aggregates
   - Acoustic Profile Elevations
   - Top of Panel Elevations
6. PROVIDE THE FOLLOWING MINIMUM INFORMATION:
   - General Notes
   - Fabrication Notes
   - Transportation Notes
   - Lifting and Erection Notes
7. PROVIDE THE FOLLOWING MINIMUM INFORMATION:
   - General Notes
   - Fabrication Notes
   - Transportation Notes
   - Lifting and Erection Notes
8. PROVIDE THE FOLLOWING MINIMUM INFORMATION:
   - General Notes
   - Fabrication Notes
   - Transportation Notes
   - Lifting and Erection Notes
9. PROVIDE THE FOLLOWING MINIMUM INFORMATION:
   - General Notes
   - Fabrication Notes
   - Transportation Notes
   - Lifting and Erection Notes
10. PROVIDE THE FOLLOWING MINIMUM INFORMATION:
    - General Notes
    - Fabrication Notes
    - Transportation Notes
    - Lifting and Erection Notes
1. CAST-IN-PLACE CONCRETE:
   - Provide cast-in-place concrete in the cast-in-place piers and piers, on or at grade, in the contact area.
   - Provide cast-in-place concrete in the cast-in-place barriers and moment slabs at or in contact with the contract drawings.
   - Provide minimum unit weight of concrete = 150 lb./cu. ft.

2. PRECAST CONCRETE SOUND BARRIER PANELS:
   - Provide cast-in-place concrete, modified in the precast concrete panels.
   - Provide minimum unit weight of concrete = 150 lb./cu. ft.
   - Provide minimum unit weight of light weight concrete = 115 lb./cu. ft.
   - Provide minimum compressive strength of concrete = 5,000 psi before stripping.
   - Provide minimum concrete strength in the panels, if specified on the contract drawings.

3. REINFORCEMENT STEEL:
   - Provide one or more reinforcing bars that meet the requirements of ASTM A615, Grade 40, or ASTM A996, Grade 60, unless otherwise indicated on the contract drawings.
   - Provide one or more reinforcing bars that meet the requirements of ASTM A615, Grade 60, or ASTM A996, Grade 60, unless otherwise indicated on the contact drawings.
   - Provide minimum steel strength in the panels as specified on the contact drawings.
   - Provide minimum yield strength of reinforcing steel in the panels as specified on the contact drawings.
   - Provide minimum compressive strength of reinforcing steel in the panels as specified on the contact drawings.

4. WELDED WIRE FABRIC:
   - Provide one or more layers of reinforcing bars that meet the requirements of ASTM A576, Grade 50, or ASTM A576, Grade 60, unless otherwise indicated on the contract drawings.
   - Provide one or more layers of reinforcing bars that meet the requirements of ASTM A576, Grade 50, or ASTM A576, Grade 60, unless otherwise indicated on the contract drawings.
   - Provide one or more layers of reinforcing bars that meet the requirements of ASTM A576, Grade 50, or ASTM A576, Grade 60, unless otherwise indicated on the contact drawings.
   - Provide one or more layers of reinforcing bars that meet the requirements of ASTM A576, Grade 50, or ASTM A576, Grade 60, unless otherwise indicated on the contract drawings.

5. FABRICATED STRUCTURAL STEEL:
   - Provide one or more layers of reinforcing bars that meet the requirements of ASTM A576, Grade 50, or ASTM A576, Grade 60, unless otherwise indicated on the contract drawings.
   - Provide one or more layers of reinforcing bars that meet the requirements of ASTM A576, Grade 50, or ASTM A576, Grade 60, unless otherwise indicated on the contact drawings.
   - Provide one or more layers of reinforcing bars that meet the requirements of ASTM A576, Grade 50, or ASTM A576, Grade 60, unless otherwise indicated on the contact drawings.
   - Provide one or more layers of reinforcing bars that meet the requirements of ASTM A576, Grade 50, or ASTM A576, Grade 60, unless otherwise indicated on the contact drawings.

6. JOINT BACKING MATERIAL (BACKER ROD):
   - Provide joint backing material in accordance with PUBLICATION 408, SECTION 1105.02(s) and 1060.7 (b).
   - Provide joint backing material in accordance with PUBLICATION 408, SECTION 1105.02(s) and 1060.7 (b).
   - Provide joint backing material in accordance with PUBLICATION 408, SECTION 1105.02(s) and 1060.7 (b).
   - Provide joint backing material in accordance with PUBLICATION 408, SECTION 1105.02(s) and 1060.7 (b).

7. REINFORCEMENT BARS IN BARRIERS, FOOTINGS, CAISSONS, OR WHERE BENDING OR WELDING OF REINFORCEMENT BARS IS INDICATED.
   - Provide minimum lap for reinforcing bars of 30 diameters unless otherwise indicated on the contract drawings.
   - Provide minimum lap and embedment length for reinforcing bars of 30 diameters unless otherwise indicated on the contract drawings.
   - Provide minimum lap and embedment length for reinforcing bars of 30 diameters unless otherwise indicated on the contract drawings.
   - Provide minimum lap and embedment length for reinforcing bars of 30 diameters unless otherwise indicated on the contract drawings.

8. STEEL CABLES AND ACCESSORIES:
   - Provide grade 70, 3 x 19 galvanized steel flexible wire rope.
   - Provide grade 70, 3 x 19 galvanized steel flexible wire rope.
   - Provide grade 70, 3 x 19 galvanized steel flexible wire rope.
   - Provide grade 70, 3 x 19 galvanized steel flexible wire rope.

9. PLAIN NEOPRENE BEARING PADS:
   - Provide plain neoprene bearing pads, if specified on the contract drawings.
   - Provide plain neoprene bearing pads, if specified on the contract drawings.
   - Provide plain neoprene bearing pads, if specified on the contract drawings.
   - Provide plain neoprene bearing pads, if specified on the contract drawings.

10. CLOSED CELL SPONGES:
    - Provide closed cell sponges, if specified on the contract drawings.
    - Provide closed cell sponges, if specified on the contract drawings.
    - Provide closed cell sponges, if specified on the contract drawings.
    - Provide closed cell sponges, if specified on the contract drawings.

11. JOINT SEALING MATERIAL TO MATCH FINAL COLOR OF PANEL.
    - Provide joint sealing material to match final color of panel.
    - Provide joint sealing material to match final color of panel.
    - Provide joint sealing material to match final color of panel.
    - Provide joint sealing material to match final color of panel.

12. CAULKING COMPOUND:
    - Provide caulk compound in accordance with PUBLICATION 408, SECTION 1105.02(c)3.
    - Provide caulk compound in accordance with PUBLICATION 408, SECTION 1105.02(c)3.
    - Provide caulk compound in accordance with PUBLICATION 408, SECTION 1105.02(c)3.
    - Provide caulk compound in accordance with PUBLICATION 408, SECTION 1105.02(c)3.

13. JOINT SEALING MATERIAL:
    - Provide joint sealing material in accordance with PUBLICATION 408, SECTION 1105.02(c)3.
    - Provide joint sealing material in accordance with PUBLICATION 408, SECTION 1105.02(c)3.
    - Provide joint sealing material in accordance with PUBLICATION 408, SECTION 1105.02(c)3.
    - Provide joint sealing material in accordance with PUBLICATION 408, SECTION 1105.02(c)3.

14. JOINT SEALING MATERIAL TO MATCH FINAL COLOR OF PANEL.
    - Provide joint sealing material to match final color of panel.
    - Provide joint sealing material to match final color of panel.
    - Provide joint sealing material to match final color of panel.
    - Provide joint sealing material to match final color of panel.

15. ANTIGRAFFITI COATING:
    - Provide antigraffiti coating in accordance with PUBLICATION 408, SECTION 1105.02(c)3.
    - Provide antigraffiti coating in accordance with PUBLICATION 408, SECTION 1105.02(c)3.
    - Provide antigraffiti coating in accordance with PUBLICATION 408, SECTION 1105.02(c)3.
    - Provide antigraffiti coating in accordance with PUBLICATION 408, SECTION 1105.02(c)3.

16. PENETRATING CONCRETE STAIN:
    - Provide penetrating concrete stain in accordance with PUBLICATION 408, SECTION 1105.02(c)3.
    - Provide penetrating concrete stain in accordance with PUBLICATION 408, SECTION 1105.02(c)3.
    - Provide penetrating concrete stain in accordance with PUBLICATION 408, SECTION 1105.02(c)3.
    - Provide penetrating concrete stain in accordance with PUBLICATION 408, SECTION 1105.02(c)3.

ARCHITECTURAL SURFACE TREATMENTS:
1. THE AVERAGE ARCHITECTURAL SURFACE TREATMENT, PER SIDE IN PANEL, IS PERMITTED TO HAVE A THICKNESS OF MINIMUM 0.020 INCH UNLESS OTHERWISE SPECIFIED ON THE CONTRACT DRAWINGS.
2. PROVIDE AN AVERAGE ARCHITECTURAL SURFACE TREATMENT OF MINIMUM 0.020 INCH UNLESS OTHERWISE SPECIFIED ON THE CONTRACT DRAWINGS.
3. PROVIDE AN AVERAGE ARCHITECTURAL SURFACE TREATMENT OF MINIMUM 0.020 INCH UNLESS OTHERWISE SPECIFIED ON THE CONTRACT DRAWINGS.
4. PROVIDE AN AVERAGE ARCHITECTURAL SURFACE TREATMENT OF MINIMUM 0.020 INCH UNLESS OTHERWISE SPECIFIED ON THE CONTRACT DRAWINGS.
5. PROVIDE AN AVERAGE ARCHITECTURAL SURFACE TREATMENT OF MINIMUM 0.020 INCH UNLESS OTHERWISE SPECIFIED ON THE CONTRACT DRAWINGS.
RECOMMENDED NOV. 26, 2013

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
BUREAU OF PROJECT DELIVERY

STANDARD
STRUCTURE MOUNTED SOUND BARRIER WALLS
GEOMETRY AND LAYOUT - WALL MOUNTED

NOTES:
1. FOR ADDITIONAL INFORMATION REFER TO NOTES ON SHEETS 1 AND 2.
2. FOR SECTION A-A, SEE SHEET 6.
3. FOR SECTION B-B, SEE SHEET 7.
4. PANEL JOINT (LEVEL)
5. PANEL JOINT (LEVEL)

LEGEND:
- AS SPECIFIED ON CONTRACT DRAWINGS.
- PANELS AS SPECIFIED ON SHEET 9 (IF SPECIFIED)
- OR SPECIFIED WHERE INDICATED
- STEEL CABLE CONNECTION, SEE DETAIL G
- (LEVEL) (TYP.)
- (LEVEL) (TYP.)
- OR EXP. 1/2" IN RETAINING WALL (TYP.)
- PANEL JOINT (LEVEL)
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- CONTROL: 2" OR EXP. 1/2" IN RETAINING WALL (TYP.)
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SECTION A-A
WITH ARCHITECTURAL SURFACE TREATMENT

DETAIL A
NO ARCHITECTURAL SURFACE TREATMENT

DETAIL A
WITH ARCHITECTURAL SURFACE TREATMENT AND NO CAP

DETAIL A
WITH ARCHITECTURAL SURFACE TREATMENT AND CAP

DETAIL B
NO ARCHITECTURAL SURFACE TREATMENT

DETAIL B
ARCHITECTURAL SURFACE TREATMENT (WHEN SPECIFIED)

DETAIL C
NO ARCHITECTURAL SURFACE TREATMENT

DETAIL C
ARCHITECTURAL SURFACE TREATMENT (WHEN SPECIFIED)

NOTE:
1. FOR ADDITIONAL INFORMATION REFER TO NOTES ON SHEETS 1 AND 2.
2. REFER TO SHEETS 3 AND 4 FOR LOCATION OF DETAIL A.
3. FOR SLEEVE DETAIL AT OPENINGS AND OTHER DETAILS REFER TO BC-776M.

LEGEND:
- AS REQUIRED BY DESIGN REFER TO CONTRACT DRAWINGS
## STANDARD STRUCTURE MOUNTED SOUND BARRIER WALLS DETAILS - 2

**SECTION C-C**

**SECTION D-D**

**SECTION E-E**

### ANCHOR PLATE ASSEMBLY

- **Anchor Bolts**: Use anchor bolts with approved adhesive (galvanized, typically)
- **Details**:
  - Post height (H): 10.40
  - Panel width (2H): 6.00

### Table: CD - Grout Depth at Post

<table>
<thead>
<tr>
<th>Level</th>
<th>CD (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top</td>
<td>0.40</td>
</tr>
<tr>
<td>Middle</td>
<td>0.20</td>
</tr>
</tbody>
</table>

### Notes:
- Refer to notes on sheet 1 and 2.
- For additional information refer to notes on sheets 1 and 2.

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**LEGEND**

- **DG** = Grout Depth
- **S1** = Slope of Belt/Wall

**DETAIL G**

- **Tie Bars AND Anchors**

### Notes:
- Refer to notes on sheets 1 and 2.
- For additional information refer to notes on sheets 1 and 2.
PRECAST CONCRETE PANEL

BC-779M

STANDARD STRUCTURE MOUNTED SOUND BARRIER WALLS

F F A B

SECTION F-F

RESIDENTIAL SIDE

ROADWAY SIDE

FABRIC (TYP.)

WELDED WIRE

POST SIZE

W8x48
W10x68
W10x88

PRECAST CONCRETE PANEL ELEVATION

FLANGE (TYP.)

EDGE OF

HEAVY HEX NUT (TYP.)

E
E
-
(TYP.)

WASHER

LOCK

FLAT WASHER (TYP.)

STEEL PIPE

EDGE OF

HEAD

HEAVY HEX

AND PAINTED)

(GALVANIZED

FLAT WASHER

AND PAINTED)

(GALVANIZED

LOCK WASHER

AND PAINTED)

(GALVANIZED

HEAVY HEX NUT

BOLT DETAIL

SHEET 9 OF 9

STEEL CABLE CONNECTION DETAIL

NOTES:

1. FOR ADDITIONAL INFORMATION REFER TO NOTES ON SHEETS 1 AND 2.
2. BOLTS ARE TO GRIP THE STEEL POST, BASE PLATE, PANEL, AND BARRIER/WALL STRIP (ONE PIECE) (TYP.) SEE NOTE 2

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
BUREAU OF PROJECT DELIVERY

STANDARD
STRUCTURE MOUNTED SOUND BARRIER WALLS
STEEL CABLE CONNECTION DETAIL

RECOMMENDED: NOV. 26, 2013