bd-676m

reference drawings

sheet title
index of sheets

5. design specifications:
- bend ams f961 specifications for structural design of sound barriers.
- bend ams f2062 specifications for precast concrete panels.
- bend ams f4165 specifications for structural supports for highway sound barriers.
- bend ams f8960 specifications for structural supports for highway sound barriers.

6. general notes:
- general notes - 1
- general notes - 2

7. general notes:
- general notes - 1
- general notes - 2

8. general notes:
- general notes - 1
- general notes - 2

9. general notes:
- general notes - 1
- general notes - 2

10. general notes:
- general notes - 1
- general notes - 2

11. general notes:
- general notes - 1
- general notes - 2

12. general notes:
- general notes - 1
- general notes - 2

material notes

1. refer to bc-776m for material notes.

2. construction specifications and requirements:
- provide structural and finish work in accordance with the current version of the specifications and drawings for the project.
- provide structural and finish work in accordance with the current version of the specifications and drawings for the project.
- provide structural and finish work in accordance with the current version of the specifications and drawings for the project.
- provide structural and finish work in accordance with the current version of the specifications and drawings for the project.

3. design panels:
- the design panels include a gust factor of 1.3 and a drag factor of 1.2.
- the design panels include a gust factor of 1.3 and a drag factor of 1.2.
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- the design panels include a gust factor of 1.3 and a drag factor of 1.2.

4. wall heights:
- the wall heights must equal or exceed the acoustical profile.
- the wall heights must equal or exceed the acoustical profile.
- the wall heights must equal or exceed the acoustical profile.
- the wall heights must equal or exceed the acoustical profile.

5. panel weights:
- provide panel weights for the wall height exceed 3'-0".
- provide panel weights for the wall height exceed 3'-0".
- provide panel weights for the wall height exceed 3'-0".
- provide panel weights for the wall height exceed 3'-0".

6. horizontal panel joints:
- minimize the number of horizontal panel joints.
- minimize the number of horizontal panel joints.
- minimize the number of horizontal panel joints.
- minimize the number of horizontal panel joints.

7. ground mounted sound barriers:
- provide stacked panels when the wall height exceeds 3'-0".
- provide stacked panels when the wall height exceeds 3'-0".
- provide stacked panels when the wall height exceeds 3'-0".
- provide stacked panels when the wall height exceeds 3'-0".

8. panel heights:
- horizontal panel joints:
- horizontal panel joints:
- horizontal panel joints:
- horizontal panel joints:

9. ground mounted sound barriers:
- ground mounted sound barriers must be protected by concrete barriers unless the panel is located beyond the horizontal zone or if the bottom of panels are a minimum of 6" above the grade of adjacent panels.
- ground mounted sound barriers must be protected by concrete barriers unless the panel is located beyond the horizontal zone or if the bottom of panels are a minimum of 6" above the grade of adjacent panels.
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10. all dimensions shown are horizontal, except as noted.
- all dimensions shown are horizontal, except as noted.
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- all dimensions shown are horizontal, except as noted.

11. reinforcement in some sections is not shown for clarity.
- reinforcement in some sections is not shown for clarity.
- reinforcement in some sections is not shown for clarity.
- reinforcement in some sections is not shown for clarity.

12. for additional information refer to bc-776m.
NOTES TO DESIGNER

1. PREPARE CONTRACT DRAWINGS IN ACCORDANCE WITH THE DESIGN MANUAL, PART 4 AND THESE STANDARDS.

2. THE FOLLOWING NOTE MUST BE PLACED ON THE DESIGN PLANS FOR SIGNATURE OF THE DISTRICT ENVIRONMENTAL MANAGER INDICATING THAT THE DESIGN PLANS HAVE BEEN REVIEWED AND APPROVED BY THE DISTRICT ENVIRONMENTAL MANAGER AND THE DISTRICT BRIDGE ENGINEER.

3. DETERMINE HEIGHT AND SPACING FOR EARTH PRESSURE TO BE USED IN WALL DESIGN.

4. DETERMINE THE REQUIRED THICKNESS OF CONCRETE TO CONSTRUCT THE SOUND BARRIER WALL.

5. PROVIDE A CONCRETE PLANT NEAR THE LOCATION OF THE STRUCTURE TO ENSURE THE CONTINUITY OF THE CONCRETE SUPPLY.

6. PROVIDE THE CONCRETE PLANT TO ENSURE THE CONTINUITY OF THE CONCRETE SUPPLY.

7. PROVIDE THE CONCRETE PLANT TO ENSURE THE CONTINUITY OF THE CONCRETE SUPPLY.

8. PROVIDE THE CONCRETE PLANT TO ENSURE THE CONTINUITY OF THE CONCRETE SUPPLY.

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14. PROVIDE THE CONCRETE PLANT TO ENSURE THE CONTINUITY OF THE CONCRETE SUPPLY.

15. PROVIDE THE CONCRETE PLANT TO ENSURE THE CONTINUITY OF THE CONCRETE SUPPLY.

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18. PROVIDE THE CONCRETE PLANT TO ENSURE THE CONTINUITY OF THE CONCRETE SUPPLY.

19. PROVIDE THE CONCRETE PLANT TO ENSURE THE CONTINUITY OF THE CONCRETE SUPPLY.

20. PROVIDE THE CONCRETE PLANT TO ENSURE THE CONTINUITY OF THE CONCRETE SUPPLY.

ARCHITECTURAL SURFACE TREATMENTS

1. THE FOLLOWING INFORMATION MUST BE SHOWN ON THE CONTRACT DRAWINGS IF APPLICABLE:
   - PANEL WIDTH
   - PANEL LENGTH
   - PANEL HEIGHT
   - PANEL WEIGHT
   - PANEL THICKNESS
   - PANEL COLOR
   - PANEL FINISH
   - PANEL LOCATION
   - PANEL NUMBER

2. THE FOLLOWING INFORMATION MUST BE SHOWN ON THE CONTRACT DRAWINGS IF APPLICABLE:
   - PANEL WIDTH
   - PANEL LENGTH
   - PANEL HEIGHT
   - PANEL WEIGHT
   - PANEL THICKNESS
   - PANEL COLOR
   - PANEL FINISH
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   - PANEL NUMBER

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   - PANEL HEIGHT
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   - PANEL COLOR
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   - PANEL WEIGHT
   - PANEL THICKNESS
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   - PANEL FINISH
   - PANEL LOCATION
   - PANEL NUMBER

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   - PANEL WEIGHT
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   - PANEL WEIGHT
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   - PANEL FINISH
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8. THE FOLLOWING INFORMATION MUST BE SHOWN ON THE CONTRACT DRAWINGS IF APPLICABLE:
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   - PANEL WEIGHT
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COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF TRANSPORTATION  
BUREAU OF PROJECT DELIVERY  

STANDARD  
GROUND MOUNTED SOUND BARRIERS  
PRECAST CONCRETE PANELS  

Geometry and Layout - 2

NOTE 1:  
5. FOR ADDITIONAL INFORMATION REFER TO NOTES ON SHEET 1 SEE 2.

NOTE 2: DESIGNER TO SELECT WHICH OPTION IS USED BASED ON THE ROADWAY GEOMETRICS, ROADWAY REQUIREMENTS AND ANY ADDITIONAL CONSTRAINTS. OBTAIN ACCEPTANCE FROM THE DISTRICT BRIDGE ENGINEER. THE DEPARTMENT PREFERENCES OPTION 1 USING THE CONCRETE CAP.

RECOMMENDED  
APR. 29, 2016

BUREAU OF PROJECT DELIVERY

SYLVIA B. HOWARD, Chief

BUREAU OF PROJECT DELIVERY

BUREAU OF PROJECT DELIVERY

CONCRETE CAP DETAIL
**PRECAST CONCRETE PANEL WITH OPTIONAL SLOPED BOTTOM**

**ELEVATION - SLOPED TOP**

**ELEVATION - LEVEL TOP**

**NOTES:**
1. For additional information refer to Table 2.
2. For detail D, refer toSheet 5.

**LEGEND:**
1. Panel length may need adjusted to accommodate angled and corner posts.
2. Spacing of horizontal bars:
3. Spacing of vertical bars:

**COMMONWEALTH OF PENNSYLVANIA**

**DEPARTMENT OF TRANSPORTATION**

**BUREAU OF PROJECT DELIVERY**

**STANDARD**

**GROUND MOUNTED SOUND BARRIERS**

**PRECAST CONCRETE PANELS**

**PRECAST CONCRETE PANEL DETAILS - 2**

**APR. 29, 2016**