

1 **(September 8, 2020)**

2 **Masonry Noise Barrier Walls**

3 Concrete masonry units (CMU's) shall conform to ASTM C 90, Grade N, Type 1.
4 Concrete masonry units shall have a density between 100 and 115 pounds per cubic
5 foot. Shrinkage shall not exceed 0.065 percent.

6
7 CMU's will be accepted based on a Manufacturer's Certificate of Compliance. The
8 Manufacturer's Certificate of Compliance shall include test results, conducted within the
9 previous twelve months, as required to document compliance with the material
10 requirements specified in these Special Provisions.

11
12 The concrete masonry unit faces shall be nominal 8 by 16 inches with thicknesses as
13 specified in the Plans. Concrete masonry unit surface texture and color shall be as
14 follows:

15
16 *** \$\$1\$\$ ***

17
18 Special shapes shall be provided to complete the work as specified in the Plans.

19
20 The Contractor shall submit Type 2 Working Drawings consisting of four samples of
21 each type of concrete masonry unit block specified for use on the project.

22
23 Grout for concrete masonry units shall conform to ASTM C 476 for fine grout.

24
25 Mortar for concrete masonry units shall conform to ASTM C 270, Type S. The color
26 shall be natural gray. The Contractor shall mix the mortar in a mechanical mixer of one
27 sack minimum capacity for a minimum of three minutes after all materials have been
28 added before using the mortar.

29
30 Masonry sealer shall be a silane based water repellent selected from one of the
31 following, or an accepted equal:

- 32
33 1. Baracade Silane 40, manufactured by Euclid.
34 2. MasterProtect H 200, manufactured by Master Builder Solutions.
35 3. Florok Enviro-Shield 40, manufactured by Chargar.

36
37 The Contractor shall submit Type 1 Working Drawings consisting of the manufacturer's
38 recommended masonry sealer application procedure.

39
40 The parge coating applied to the top of the masonry wall shall be a waterproof cement-
41 base coating selected from one of the following, or an accepted equal:

- 42
43 1. Conproseal, manufactured by Chargar.
44 2. MasterSeal 581, manufactured by Master Builder Solutions.
45 3. Tamoseal, manufactured by Euclid.

46
47 The sealant system for the vertical expansion joints shall consist of a polyurethane
48 sealant conforming to Section 9-04.2(3) and a closed cell foam backer rod conforming
49 to Section 9-04.2(3)A.