



TYP. SECTION

* When no boring data is available, the Contractor shall assume a soil unit weight of 70 pcf, an internal friction angle of 30° and a cohesion intercept of 0 ksf when designing the shaft foundation dimensions.

NOISE ABATEMENT WALL NOTES:

Sound Transmission Class

The noise abatement wall shall be a two-sided reflective system.

The noise abatement wall shall be designed to achieve a Sound Transmission Class (STC) equal to or greater than 20 when tested in accordance with ASTM E 90. The test frequency band shall be extended to include the 125 and 4000 Hz bands.

Access Door

Access door(s) shall be a Halliday Product Series SIR2424 or an approved equal. Access door(s) shall be modified to include a slam lock to keep the door flush with the noise abatement wall while closed.

Maintenance Door

Maintenance doors shall be a Ceco Door Products Medallion Model MS or approved equal. Each door shall provide a 3 ft wide by 7 ft high minimum clear access opening. The door panel shall be constructed of 18 gauge galvanized steel. The door shall be mounted so the face of the door is flush with the roadside face of the noise abatement wall. The doorframe shall be a Ceco Door Products Series SU 4-3/4 inch steel frame or approved equal. The frame shall be constructed of 14 gauge galvanized steel. The door shall be equipped with a latch to keep the door flush with the noise abatement wall while closed.

The door and frame shall be painted to blend with the adjacent concrete panels. The doors and frames shall be painted per Section 506 and Subsection 506.3.4. Galvanized surfaces shall be prepared in accordance with the paint manufacturer's recommendations.

Aesthetics

Wall panels shall be colored and have a surface treatment on both the front and back surfaces. The surface treatment shall be accomplished by the use of form liners. Random Ashlar Stone Form Liner Pattern with a relief of 1" to 1 1/2" or approved equivalent shall be used.

The panels shall contain neither patched nor unpatched tie holes.

The preferred color of the posts and panel cap is beige and the color of the remaining panel surface tan. If other colors are submitted for review they shall be of similar complimentary contrasting colors. The top surfaces of the panels and posts shall be the same color as their respective adjoining faces. Coloring shall be accomplished by the use of stains or coatings. The staining or coating products must be compatible with the surface sealing coating specified herein. The Engineer may waive the requirement of a separate sealing product if the staining or coating product also meets the performance requirements of the sealing product.

Surface Sealing

All surfaces of the panels and concrete posts towards the traveled way shall receive a coating to seal the surfaces against the intrusion of deicing salts. The sealing coating shall conform to the requirements of the Standard Specifications.

BILL OF MATERIAL

ITEM	ITEM	UNIT	TOTAL
	Noise Abatement Wall, Precast Concrete (Ground Mounted)	Sq. Ft.	6,905

	USER NAME = Rdwj.Lisle	DESIGNED - A. Durbak	REVISED -		MCHENRY COUNTY DIVISION OF TRANSPORTATION	RAKOW ROAD FROM ACKMAN ROAD TO ILLINOIS ROUTE 31 NOISE WALL DETAILS			F.A. RTE. 0336	SECTION 05-00308-00-WR	COUNTY MCHENRY	TOTAL SHEETS 606	SHEET NO. 420
	PLOT CONFIG= PDF(Grey, Large).plt	DRAWN - A. Yargicoglu	REVISED -						CONTRACT NO.				
	PLOT SCALE = 1:1	CHECKED - A. Durbak	REVISED -										
	PLOT DATE = 7/28/2010	DATE - 8/2/2010	REVISED -										
SCALE: NONE SHEET NO. STR 18 OF 22 STA. TO STA.						FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							