

I. CONCRETE EPOXY SEALER WHERE NOISE BARRIERS ARE CONSTRUCTED ADJACENT TO BRIDGE PARAPET OR TYPE D CONCRETE BARRIERS AND THE NOISE BARRIER IS NOT CONSTRUCTED TO THE GROUND LINE, THE EXPOSED CONCRETE SURFACE SHALL BE COATED WITH A CONCRETE EPOXY SEALER OF A COLOR MATCHING THAT OF THE NOISE BARRIER. THE SEALER SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION. A URETHANE TOP COAT SEALER SHALL ALSO BE APPLIED OVER THE CONCRETE AREAS COATED WITH EPOXY SEALER. THE URETHANE COATING SHALL BE APPLIED IN ACCORDANCE WITH CMS SECTION 512.03 AND THE MANUFACTURER'S RECOMMENDATION.

J. STAINLESS STEEL, SHALL BE ASTM F593 AUSTENITIC ALLOY GROUPS 1,2, OR 3, EXCEPT THE FREE-MACHINING GRADES 303 OR 303SE USED TO MAKE FASTENERS. ALL STAINLESS STEEL USED IN ODOT NOISE WALLS SHALL BE CAPABLE OF PASSING THE TEST FOR SUSCEPTIBILITY TO INTERGRANULAR CORROSION AS SPECIFIED IN PRACTICE E OF ASTM PRACTICES A 262.

V. ACCEPTANCE REQUIREMENTS

IN ADDITION TO CONFORMING WITH THE STRUCTURAL REQUIREMENTS AS SHOWN IN THE PLANS, IT IS ALSO NECESSARY TO COMPLY WITH THE FOLLOWING AESTHETIC REQUIREMENTS.

THE CONTRACTOR SHALL DELIVER TO THE JOB SITE ONE FULL SIZE NOISE BARRIER, AND ONE FULL SIZE POST REPRESENTATIVE OF THE PRODUCT THE CONTRACTOR IS GOING TO SUPPLY. THE ENGINEER WILL EVALUATE WHETHER BOTH THE NOISE PANEL AND POST MEET ALL PLAN SPECIFIED FEDERAL COLOR STANDARD, TEXTURE, TRIM, AND/OR COATING REQUIREMENTS. TO FACILITATE THIS COMPARISON, THE CONTRACTOR SHALL SUPPLY THE ENGINEER WITH A COPY OF "FEDERAL STANDARD 595B COLOR USED IN GOVERNMENT PROCUREMENT". IF EITHER THE NOISE PANEL OR POST DO NOT MEET THE PLAN REQUIREMENTS THE CONTRACTOR SHALL HAVE ANOTHER NOISE PANEL OR POST MANUFACTURED AND DELIVERED TO THE JOB SITE FOR APPROVAL BY THE ENGINEER. IF THE PLANS DO NOT SPECIFY A COLOR, TEXTURE, TRIM, OR COATING REQUIREMENT, IT WILL STILL BE NECESSARY TO DELIVER THE SAMPLE POST AND PANEL TO THE JOB SITE FOR APPROVAL, PRIOR TO THE PRODUCTION OF ANY ADDITIONAL NOISE BARRIERS OR POSTS.

THE SAMPLE POST AND PANEL WILL BECOME THE CONTROL POST AND PANEL WITH WHICH ALL SUBSEQUENT POSTS AND PANELS WILL BE COMPARED. THIS CONTROL POST AND PANEL SHALL BE DELIVERED TO, AND IF NECESSARY, MOVED TO DIFFERENT LOCATIONS TO FACILITATE COMPARISONS WITH THE REMAINING POSTS AND PANELS.

ANY DELIVERED AND/OR ERECTED POSTS AND PANELS WHICH DO NOT MATCH THE CONTROL POST AND PANEL OR DO NOT CONFORM WITH THE STRUCTURAL REQUIREMENTS AS SHOWN IN THE PLANS SHALL BE REMOVED AND REPLACED AT NO ADDITIONAL COSTS.

ALL NOISE BARRIER PANELS SHALL BE MANUFACTURED USING THE SAME METHOD OF CONSTRUCTION SO AS TO PRODUCE A UNIFORM PANEL FINISH.

VI. METHOD OF MEASUREMENT

NOISE BARRIER PLAN QUANTITIES ARE MEASURED IN SQUARE FEET OF ACCEPTABLE BARRIER USING A HEIGHT FROM BOTTOM OF WALL TO TOP OF WALL INCLUDING THE CAP AND A LENGTH FROM POST TO POST AS DETAILED IN THE PLANS. WHERE A NOISE BARRIER IS CONSTRUCTED BEHIND A CONCRETE PARAPET, THE BOTTOM OF THE WALL SHALL BE DEFINED AS THE TOP OF THE PARAPET FOR MEASUREMENT PURPOSES.

FINAL PLAN QUANTITIES OF NOISE BARRIER IN SQUARE FEET SHALL NOT INCLUDE ANY ADDITION FOR NOISE BARRIER HEIGHTS GREATER THAN PLAN REQUIREMENTS. ANY ADDITIONAL HEIGHTS OF NOISE BARRIER REQUIRED TO ACCOMMODATE THE CONTRACTOR'S SELECTED MANUFACTURED BARRIER MATERIALS OR POST SPACING EITHER GREATER OR LESS THAN PLAN POST SPACING SHALL NOT BE INCLUDED FOR PAYMENT. SQUARE FEET OF NOISE BARRIER CONSTRUCTED BELOW THE GROUND LINE SHALL ALSO NOT BE INCLUDED FOR PAYMENT.

THE COMPLETED AND ACCEPTED INLETS, WHETHER NEW, RECONSTRUCTED, OR ADJUSTED TO GRADE WILL BE MEASURED BY THE UNIT FOR EACH TYPE OF STRUCTURE AND CLASS OF WORK ITEMIZED.

VII. BASIS OF PAYMENT

NOISE BARRIERS, COMPLETED AND IN PLACE, AS DESCRIBED IN METHOD OF MEASUREMENT, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT. THIS PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIALS, INCLUDING PANELS, PANELS WITH POSTS, FOUNDATIONS, PROTECTIVE COATINGS, LABOR AND EQUIPMENT NECESSARY TO CONSTRUCT THE NOISE BARRIER. ALL EXCAVATION, BACKFILL WITH SUITABLE MATERIAL AND ANY ADJUSTMENT IN EARTHWORK QUANTITIES REQUIRED DUE TO THE CONTRACTOR'S SELECTED NOISE PANEL, SEALING CONCRETE WITH EPOXY AND URETHANE, AGGREGATE DRAINS, COMPACTION, DISPOSAL OF SURPLUS OR UNSUITABLE MATERIALS, SEEDING, FERTILIZING AND MULCHING OF DISTURBED AREAS SHALL ALSO BE INCLUDED FOR PAYMENT.

SEE SHEETS 978 TO 1005 FOR PAY ITEMS AND QUANTITIES

ABBREVIATIONS

AITC	AMERICAN INSTITUTE OF TIMBER CONSTRUCTION
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWPA	AMERICAN WOOD PRESERVERS' ASSOCIATION
BIA	BRICK INSTITUTE OF AMERICA
CCA	CROMATED COPPER ARSENATE
CMS	CONSTRUCTION AND MATERIALS SPECIFICATIONS OF ODOT
ILI	INDIANA LIMESTONE INSTITUTE
LPG	VOLATILE PETROLEUM SOLVENT (LIQUID PROPANE GAS)
SSPC	STRUCTURAL STEEL PAINTING COUNCIL
VPS	VOLUNTARY PRODUCT STANDARD

ITEM 623 - CONSTRUCTION LAYOUT STAKES, AS PER PLAN

THE CONTRACTOR SHALL LAYOUT AND STAKE EACH NOISE BARRIER SITE IN THE FIELD AND VERIFY THE DIMENSIONS OF THE POST AND PANELS PRIOR TO ORDERING FABRICATION. COST FOR THIS WORK TO BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 623 - CONSTRUCTION LAYOUT STAKES, AS PER PLAN.

SOIL INFORMATION

THE BORINGS WERE TAKEN AT THE PROPOSED NOISE BARRIER LOCATIONS. THE INFORMATION CAN BE FOUND IN THE NOISE BARRIER SOIL INFORMATION CHART INCLUDED IN THE PLANS.

ITEM 201 - CLEARING AND GRUBBING

THIS LUMP SUM ITEM SHALL BE USED TO CLEAR BRUSH AND THE NEAT TRIMMING AND/OR REMOVAL OF TREES IN CONFLICT WITH THE PROPOSED NOISE BARRIER LOCATIONS. TREES SCHEDULED TO BE TRIMMED OR REMOVED SHALL BE MARKED AND APPROVED BY THE PROJECT ENGINEER PRIOR TO THE WORK BEING PERFORMED. CLEARING OF TREES SHALL BE KEPT TO A MINIMUM. FOR CLARIFICATION, TREES SHALL BE INTERPRETED AS ANY GROWTH WITH A TRUNK DIAMETER OF AT LEAST 3 INCHES. TREES ANTICIPATED TO BE REMOVED ARE INDICATED IN THE PLANS

IN THE AREA BETWEEN THE BACK OF THE NOISE BARRIER AND EXISTING FENCE, WHERE THE FENCE IS TO BE REMOVED, AND THE ADJOINING PROPERTY IS GRASSED RESIDENTIAL, THE AREA SHALL BE FINISHED TO A STATE COMPARABLE TO THE ADJOINING PROPERTY.

PROTECTION OF EXISTING SEWERS AND CULVERTS

BEFORE AUGURING POST HOLES OR EXCAVATING FOR SPREAD FOOTERS, THE CONTRACTOR SHALL FIELD LOCATE ALL EXISTING SEWERS AND CULVERTS.

SHOULD A SEWER OR CULVERT BE DAMAGED BY THE CONTRACTOR'S NEGLIGENCE IN THE ABOVE MENTIONED WORK, THE DAMAGED SECTIONS OF THE SEWER OR CULVERT SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE STATE.

NOISE BARRIER FOUNDATIONS IN WEAK SOIL

IN AREAS WHERE POOR SOIL CONDITIONS EXIST THAT WERE NOT SHOWN AS SUCH IN THE BORINGS, AND EXTRA 3 FEET OF FOUNDATION DEPTH SHALL BE ADDED TO DRILLED SHAFTS.

A POOR SOIL CONDITION SHALL BE CONSIDERED TO EXIST WHEN OVER ONE-THIRD (1/3) OF THE EXCAVATED DEPTH SHOWS AN UNEXPECTED WEAK SOIL TYPE. THIS SHALL BE DETERMINED BY THE PROJECT ENGINEER.

THE REINFORCEMENT FOR THE 3 FEET OF EXTENDED FOUNDATION SHALL BE DEVELOPED BY USING A MINIMUM 2 FEET LAP SPLICE WITHIN THE CAGE TO ATTACH THE EIGHT (8) EXTRA BARS. NO EXTRA SPIRAL TIES WILL BE NECESSARY. PAYMENT FOR THE EXTRA REINFORCING STEEL, CONCRETE AND ALL LABOR NECESSARY TO PERFORM THIS WORK SHALL BE INCLUDED IN THE UNIT BID PRICE FOR EACH ITEM SPECIAL - NOISE BARRIER MISC.: FOUNDATION EXTENSION. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY AND IS TO BE USED AS DIRECTED BY THE ENGINEER.

ITEM SPECIAL - NOISE BARRIER MISC.: DRILLED SHAFT FOUNDATION EXTENSION
50 EACH

WALL MATERIAL AND COLOR

THE CONTRACTOR MUST MAINTAIN UNIFORMITY OF WALL TYPE, TEXTURE, JOINTS, AND COLOR. THE TONGUE AND GROOVE JOINTS OF NOISE BARRIER PANELS BETWEEN ADJOINING POSTS MUST BE MAINTAINED AT CONSTANT ELEVATIONS. ANY JOINT THAT IS OFFSET FROM THE JOINT IN THE ADJACENT PANEL SHALL BE ADJUSTED IN THE FIELD TO PROVIDE AN UNINTERRUPTED JOINT LINE BETWEEN ADJACENT PANELS. THE POSTS USED FOR THIS PROJECT SHALL BE CONCRETE POSTS OR PRESTRESSED CONCRETE POSTS AS SPECIFIED IN THE "NOISE BARRIER DETAILS", EXCEPT WHERE POSTS ARE STRUCTURE MOUNTED. THE PANELS SHALL BE ATTACHED TO THE POSTS AS PER MANUFACTURERS SPECIFICATIONS.

THE BARRIER PANELS SHALL BE COLORED AS PER THE FOLLOWING REQUIREMENTS:

- CONCRETE PANELS (BRICK) - FEDERAL COLOR # 595B- 20109 (RED BRICK)
- (MORTAR JOINTS) - FEDERAL COLOR # 595B- 27722 (BUFF)
- (ICONS) - FEDERAL COLOR # 595B- 27722 (BUFF)

REDI-FIT PANELS - CLEAR WITH FILAMENTS

THE POSTS, POST CAPS AND PANEL CAPS SHALL BE COLORED AS PER THE FOLLOWING REQUIREMENTS:

FEDERAL COLOR # 595B- 27722 (BUFF)

THE PANELS SHALL BE TEXTURED WITH A BRICK RELIEF AS SHOWN ON SHEET 973 .

RESTORATION OF WORK AREA

THIS NOTE APPLIES TO AREAS LOCATED ON THE FREEWAY SIDE OF THE NOISE BARRIERS. AREAS ON THE RESIDENTIAL SIDE OF THE NOISE BARRIERS SHALL BE RESTORED AS PER THE ITEM 201 - CLEARING AND GRUBBING NOTE. UPON COMPLETION OF NOISE BARRIER INSTALLATION, THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO THEIR ORIGINAL CONDITION. RESTORATION SHALL INCLUDE SEEDING AND MULCHING AS DEFINED IN CONSTRUCTION AND MATERIAL SPECIFICATIONS SECTION 659 USING A CROWN VETCH TYPE SEED MIXTURE AS DEFINED IN SECTION 659.09. THE RESTRICTION FROM SOWING CROWN VETCH DURING THE MONTHS OF SEPTEMBER AND OCTOBER IS WAIVED, BUT ALL OTHER RESTRICTIONS AND REQUIREMENTS OF 659.09 AND 659 SHALL APPLY.

PAYMENT FOR ALL EQUIPMENT, LABOR AND MATERIALS, INCLUDING COMMERCIAL FERTILIZER, AGRICULTURAL LIMING, SEEDING AND MULCHING, AND WATER, NECESSARY TO COMPLETE THE RESTORATION OF ALL DISTURBED AREAS SHALL BE INCLUDED IN THE UNIT PRICE BID PER SQUARE FOOT FOR ITEM SPECIAL - NOISE BARRIER.