



Illinois Department of Transportation

2300 South Dirksen Parkway / Springfield, Illinois / 62764

December 8, 2005

SUBJECT: FAI Route 94 & FAP Route 332
Project ACNHI-ACNHF-000S(471)
Section (0203.1 & 0312-708W)RS-3
Cook County
Contract No. 62108
Item No. 2P, December 16, 2005 Letting
Addendum A

NOTICE TO PROSPECTIVE BIDDERS:

Attached is an addendum to the plans or proposal. This addendum involves revised and/or added material.

1. Revised pages iii-vi and added page vii of the Table of Contents.
2. Revised pages 10, 11, 116-123 and 131-133 of the Special Provisions.
3. Added pages 400-414 to the Special Provisions.
4. Revised pages 1-5,9-14,18,19,21and23-25 of the Schedule of Prices.
5. Revised sheets 5-11,13-17,41,46,49,54,133,133A,143,379,475,493, 515,516,518,586-594,612,647 and 762 of the Plans.
6. Added sheets 870A-870D to the Plans.

Prime contractors must utilize the enclosed material when preparing their bid and must include any Schedule of Prices changes in their bidding proposal.

Bidders using computer-generated bids are cautioned to reflect any and all Schedule of Prices changes, if involved, into their computer programs.

Very truly yours,

Michael L. Hine
Engineer of Design
and Environment

A handwritten signature in black ink, appearing to read 'Ted B. Walschleger P.E.' with a stylized flourish.

By: Ted B. Walschleger, P. E.
Engineer of Project Management

cc: Diane O'Keefe, Region 1, District 1; N. R. Stoner; Roger Driskell;
R. E. Anderson; Estimates; Design & Environment File
TK/cab

INCENTIVE PAYMENT PLAN

The Contractor shall be entitled to an incentive payment for completing all required contract items to safely open all roadways in accordance with the requirements of the special provision "Completion Date Plus Guaranteed Working Days".

The incentive payment shall be paid at the rate of \$20,000 per calendar day for completion of work, as specified above, each day prior to the completion date, as indicated in TABLE A. The maximum payment under this incentive plan will be limited to 30 calendar days.

TABLE A

<u>Date Completed</u>	<u>Incentive Payment</u>	<u>Cooperative Payment</u>	<u>Date Completed</u>	<u>Disincentive Deduction</u>
October 29, 2006	*	*	October 29, 2006	*
October 28, 2006	\$20,000	\$20,000	October 30, 2006	\$20,000
October 27, 2006	\$40,000	\$40,000	October 31, 2006	\$40,000
October 26, 2006	\$60,000	\$60,000	November 1, 2006	\$60,000
October 25, 2006	\$80,000	\$80,000	November 2, 2006	\$80,000
October 24, 2006	\$100,000	\$100,000	November 3, 2006	\$100,000
October 23, 2006	\$120,000	\$120,000	November 4, 2006	\$120,000
October 22, 2006	\$140,000	\$140,000	November 5, 2006	\$140,000
October 21, 2006	\$160,000	\$160,000	November 6, 2006	\$160,000
October 20, 2006	\$180,000	\$180,000	November 7, 2006	\$180,000
October 19, 2006	\$200,000	\$200,000	November 8, 2006	\$200,000
October 18, 2006	\$220,000	\$220,000	November 9, 2006	\$220,000
October 17, 2006	\$240,000	\$240,000	November 10, 2006	\$240,000
October 16, 2006	\$260,000	\$260,000	November 11, 2006	\$260,000
October 15, 2006	\$280,000	\$280,000	November 12, 2006	\$280,000
October 14, 2006	\$300,000	\$300,000	November 13, 2006	\$300,000
October 13, 2006	\$320,000	\$320,000		**
October 12, 2006	\$340,000	\$340,000		
October 11, 2006	\$360,000	\$360,000		
October 10, 2006	\$380,000	\$380,000		
October 9, 2006	\$400,000	\$400,000		
October 8, 2006	\$420,000	\$420,000		
October 7, 2006	\$440,000	\$440,000		
October 6, 2006	\$460,000	\$460,000		
October 5, 2006	\$480,000	\$480,000		
October 4, 2006	\$500,000	\$500,000		
October 3, 2006	\$520,000	\$520,000		
October 2, 2006	\$540,000	\$540,000		
October 1, 2006	\$560,000	\$560,000		
September 30, 2006	\$580,000	\$580,000		
September 29, 2006	\$600,000	\$600,000		

* The completion date specified in the contract.

**The disincentive deduction shall be charged until work is completed.

A calendar day is every day shown on the calendar and starts at 12:00 midnight and ends the following 12:00 midnight, twenty-four hours later.

Should the Contractor be delayed in the commencement, prosecution or completion of the work for any reason, there shall be no extension of the incentive payment completion date even though there may be granted an extension of time for completion of the work. No incentive will be paid if the Contractor fails to complete the work before the specified completion date. Failure by the Contractor to complete all work as specified above before October 29, 2006 shall release and discharge the State, the Department and all of its officers, agents and employees from any and all claims and demands for payment of any incentive amount or damages arising from the refusal to pay an incentive amount.

FAILURE TO COMPLETE THE WORK ON TIME

Should the Contractor fail to complete the work on or before the completion date or dates as specified in the Special Provision for "Completion Date Plus Guaranteed Working Days", or within such extended time as may have been allowed by the Department, the Contractor shall

Revised 12/8/05

physical ability of the strip seal to navigate the change in angle as set forth by the manufacturer's specifications and recommendations, then the seal may be spliced at the mitered ends by factory molding or shop vulcanization by the manufacturer. In addition, this factory spliced seal shall then be verified to fit properly with its corresponding steel locking edge rail assembly prior to delivery. Under no circumstances shall the strip seal be field "vulcanized", glued, or joined in any manner other than by the manufacturer's approved factory process.

- (d) Technical Support. The manufacturer shall supply technical support during surface preparation and the installation of the entire joint assembly.

Method of Measurement. The completed joint assembly will be measured in meters (feet) along the centerline of the joint.

Basis of Payment. The expansion joint assembly, measured as specified, will be paid for at the contract unit price per meter (foot) for STRIP SEAL EXPANSION JOINT ASSEMBLY, regardless of the design movement specified. This price shall be payment in full for all labor, materials, equipment, and manufacturer's technical support required for surface preparation and joint installation.

Revised 12/8/05

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BARRIER SUPPORT STRUCTURE FOR NOISE ABATEMENT WALL

Description. This work shall consist of designing, preparation of shop drawings, and the furnishing of materials and equipment necessary to construct the concrete barrier support structure for the noise abatement wall. The concrete foundations shall be constructed in accordance with these special provisions and details in the plans, the requirements contained in the special provisions for “Noise Abatement Wall” and “Drilled Shafts” and at the locations shown on the plans or as directed by the Engineer.

Design Criteria. The barrier support structure shall be designed in accordance with the applicable portions of the requirements contained in the special provisions for “Noise Abatement Wall”, AASHTO impact loading for concrete railing of 44.5 kN (10 kips) of transverse force on the concrete parapet spread over a longitudinal length of 1.52 meter (5 feet) for the post spacing provided and “Concrete Barrier (District 1)” and signed by a licensed structural engineer. The barrier wall and face configuration shall be as shown on the details in the plans and shall have a consistent smooth line where the wall face meets adjacent walls. The face of the noise wall shall provide a smooth transition to the adjacent wall where it meets adjacent walls and shall maintain a consistent distance from the face of the barrier face.

Submittals. The Contractor shall prepare a foundation design for the drilled shafts in accordance with the applicable requirements in the special provisions for “Noise Abatement Wall” and “Drilled Shafts”.

Materials. Materials for concrete barrier and concrete base shall conform to the requirements of the following Articles of Section 1000 – Materials, except as modified herein:

Item	Article/Section
(a) High – Strength Steel Bolts, Nuts and Washers.....	1006.08
(b) Reinforcement bars.....	1006.10
(c) Portland Cement Concrete	1020
(d) Protective Coat.....	1023
(g) Preformed Expansion Joint Filler	1051.01 – 1051.08
(f) Anchor Rods.....	1094.03

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- * Denotes Special Provision
- ** With CA-16 Aggregate
- ***With Superstructure Quality Coarse Aggregate

ISTHA AGGREGATE SUBBASE 300MM (12 IN.)

DESCRIPTION

This work shall consist of the furnishing, transporting, placement and compaction of porous granular embankment material capped with 76mm (3 inches) of a CA-6 grade aggregate constructed on the finished subgrade in accordance with this special provision and to the lines, dimensions, and cross sections shown on the Plans, and as required by the Engineer.

MATERIALS

The materials used for AGGREGATE SUBBASE 300MM (12 In.) shall consist of coarse aggregate for porous granular embankment in accordance with Article 1004.06 of the IDOT Standard Specifications except as follows:

1. Crushed Stone, Crushed Blast Furnace Slag, and Crushed Concrete will be permitted. Steel slag and other expansive materials as determined through testing by the Tollway will not be permitted.

Sieve Size	Percent Passing
150 mm (6 inches)	97±3
100 mm (4 inches)	90±10
50 mm (2 inches)	45±25
#200 (75 µm)	5±5

2. Gravel, Crushed Gravel, and Pit Run Gravel

Sieve Size	Percent Passing
150 mm (6 inches)	97±3
100 mm (4 inches)	90±10
50 mm (2 inches)	55±25
#4 (4.75 mm)	30±20
#200 (75 µm)	5±5

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3. Crushed Concrete with Bituminous Materials**

<u>Sieve Size</u>	<u>Percent Passing</u>
150 mm (6 inches)	97±3
100 mm (4 inches)	90±10
50 mm (2 inches)	45±25
#4 (4.75 mm)	20±20
#200 (75 µm)	5±5

**The bituminous material shall be separated and mechanically blended with the crushed concrete so that the bituminous material does not exceed 40% of the final product. The top size of the bituminous material in the final product shall be less than 100 mm (4 inches) and shall not contain steel slag or any material that is considered expansive by the Tollway.

The capping aggregate shall have a gradation of CA-6 with the Contractor having the option to use Reclaimed Asphalt pavement (RAP), except RAP containing steel slag or other expansive material as identified by the Tollway, as capping aggregate. Any RAP shall have 100% passing the 75 mm (3 inch) sieve and be well graded down through the fines.

CONSTRUCTION REQUIREMENTS

The aggregate shall be placed in two lifts consisting of a 225 mm (9 inch) variable nominal thickness lower lift and a 75 mm (3 inch) nominal thickness top lift of capping aggregate having a gradation of CA-6. The thickness of the porous granular embankment aggregate under bituminous shoulders will vary as a result of shoulder pavement thicknesses and shoulder surface or shoulder subgrade slope requirements as shown on the Plans. If used as the capping aggregate, the RAP shall be separated and stockpiled before use. A vibratory roller meeting the requirements of Article 1101.01(g) of the IDOT Standard Specifications shall be used to roll each lift of material to obtain the desired keying or interlock and necessary compaction. The Engineer will verify that adequate keying has been obtained.

When a recommended remedial treatment for unstable subgrades is included in the contract, the lower lift of Aggregate Subbase may be placed simultaneously with the material for Porous Granular Embankment, Subgrade when the total thickness to be placed is 600 mm (2 feet) or less.

MEASUREMENT

- (a) Contract Quantities. Contract quantities shall be in accordance with Subsection 203.7 of the ISTHA Standard Specifications.

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- (b) Measured Quantities. AGGREGATE SUBBASE, 300MM (12 In.) will not be measured for payment, but will be computed in square meters for the various thicknesses from the Plan cross-sections and dimensions when completed essentially to the lines and dimensions shown in the Plans.

Should the Engineer direct a change in the Plan limits, that volume of material involved in the change shall be measured for adjustment to the calculated quantity. The volumes involved in the change shall be computed in cubic meters from cross-sections taken before and after placement and compaction of the material to the revised limits.

PAYMENT

Payment for AGGREGATE SUBBASE, 300MM (12 In.) measured as specified, will be made at the Contract unit price per square meter.

ISTHA - S.P. 501 CONCRETE BRIDGES AND DRAINAGE STRUCTURES

Issued 2/01/04 – 9/13/05

S.P. 501 CONCRETE BRIDGES AND DRAINAGE STRUCTURES

S.P. 501.1 DESCRIPTION

This work shall be performed in accordance with Section 501 on the Standard Specifications and as shown on the Plans, except as modified herein.

S.P. 501.2 MATERIALS

Subsection 501.2 of the Standard Specifications shall govern, except as modified herein. Revise the first material reference to read as follows:

“Concrete..... S.P.1101

Concrete shall be Class DK (Standard), Class SD, or Class SP as shown in the Plans.

Concrete (High Performance)S.P.1101A

Concrete shall be Class DK – HPC (High Performance Concrete) as shown in the Plans.

Concrete (with Self Consolidating Admixture System)..... S.P.1101C

S.P. 501.3 EQUIPMENT

Subsection 501.3 of the Standard Specifications shall govern, except as modified herein.
Revised 12/8/05

STAGING AND INTERCHANGE RESTRICTIONS

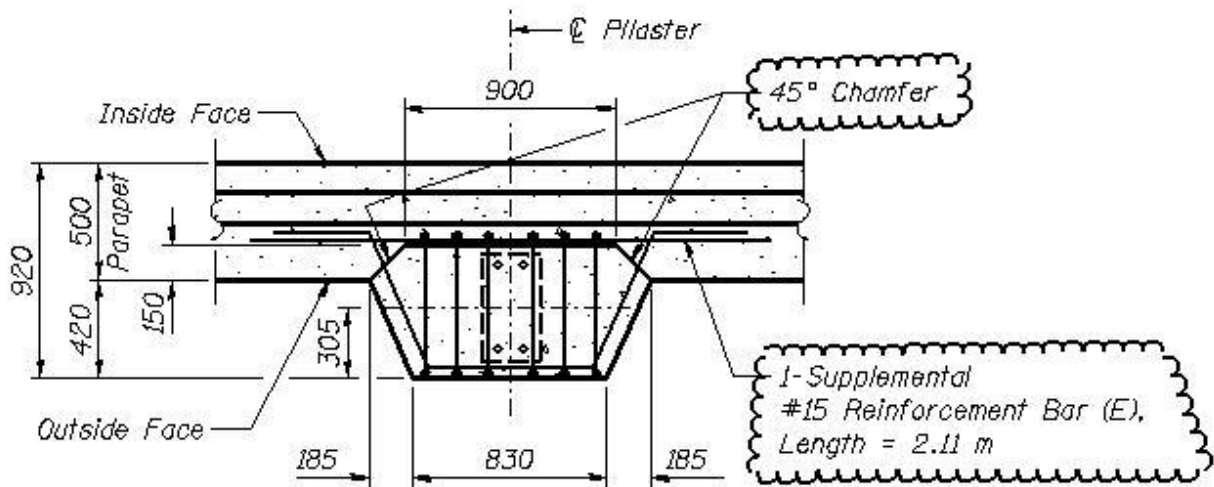
Additional IL 394 Staging Restrictions

The Contractor shall schedule his operations such that the existing I-80/294 EB ramp to IL 394 SB remains open and that one lane of traffic for this ramp is maintained on the existing IL 394 SB pavement from Sta. 39+250 to Sta. 39+975 until the proposed I-80/294 EB ramp is open to traffic, as shown on the Maintenance of Traffic plan sheets. Work on IL 394 SB in the area of this **existing** ramp shall not start prior to May 15, 2006 without written permission of the Engineer.

PILASTER SUPPORT MODIFICATION

Description: This work shall consist of constructing the pilaster supports according to the revised details included herein.

The changes to the quantities involved in the modifications of the pilaster supports are not reflected in the bills of materials or the summary of quantities; however the Contractor will be paid for the quantities actually furnished at the unit prices bid for the work involved.



TYPICAL PILASTER SUPPORT – PLAN VIEW

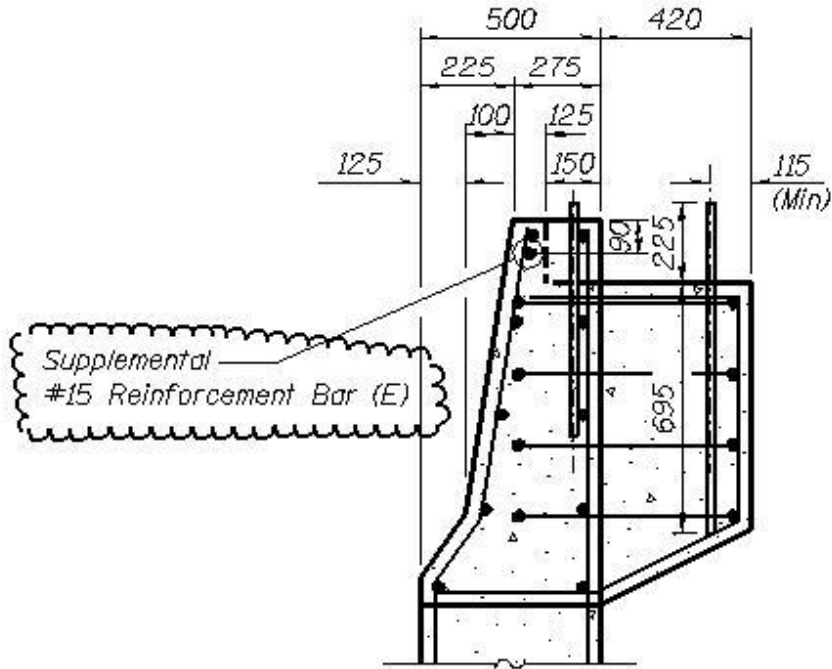
NOTES:

All concrete edges shall have a 20 mm chamfer, unless otherwise noted.

Reinforcement bars designated (E) shall be epoxy coated.

All dimensions are in millimeters (mm) except as noted.

Added 12/8/05



SECTION THRU PARAPET

NOTES:

Retaining wall detail shown above. Location of supplemental #15 reinforcement bar is similar for the pilasters on Bridges and Barrier Support Structure for Noise Abatement Walls.

All concrete edges shall have a 20 mm chamfer, unless otherwise noted.

Reinforcement bars designated (E) shall be epoxy coated.

All dimensions are in millimeters (mm) except as noted.

Added 12/8/05

NOISE ABATEMENT WALL (ABSORPTIVE WITH SOIL PROFILES)

This work shall consist of designing, preparation of shop drawings, and the furnishing of materials and equipment necessary to construct noise abatement walls in accordance with these special provisions and at the locations shown on the plans or as directed by the Engineer.

General. The noise abatement wall shall consist of panels spanning between vertical posts supported by concrete foundations (ground mounted), or supported by bridge parapets, retaining walls or traffic barriers (structure mounted) as shown on the plans. The design, fabrication, construction and materials shall comply with these special provisions and the requirements specified by the noise wall supplier selected by the Contractor for use on this project.

The Contractor shall verify the locations for proposed ground mounted wall for conflicts and realign or redesign the wall to avoid any conflicts. The Contractor shall field verify all structure mount locations constructed in prior contracts and adjust the noise abatement wall designs according to the current field conditions. The Contractor shall inform the Engineer in writing of any conflicts before realigning or redesigning the wall.

The wall components shall be fabricated and erected to produce an absorptive noise reduction system satisfying the acoustical requirements stated in these special provisions. Reflective or other abatement systems will not be allowed as equal alternates.

All appurtenances behind, in front of, under, over, mounted upon, or passing through, such as drainage structures, fire hydrant access, highway signage, emergency access and utilities shall be accounted for in design of the wall.

Submittals. The Contractor shall prepare a wall and foundation design submittal for the Engineer for review and approval. The noise wall shall be designed and constructed to extend to the minimum lines, grades and dimensions of the wall envelope, with no omissions or gaps, as shown on the contract plans and as directed by the Engineer.

Added 12/8/05

Complete design calculations for wall panels, posts, foundations, and all connections and shop drawings shall be submitted to the Department for review and approval no later than 60 days prior to beginning construction of the wall. The time required for the preparation and review of these submittals shall be charged to the allowable contract time. Delays caused by untimely submittals or insufficient data will not be considered justifications for any time extensions. No additional compensation will be made for any additional material, equipment or other items found necessary to comply with the project specifications as a result of the Engineer's review. The Contractor will be required to submit the necessary shop drawings as per Article 105.04 of the Standard Specifications. A Structural Engineer licensed in Illinois shall seal all submittals and include, but not be limited to, the following items:

Submittals shall include all details, dimensions, quantities and cross sections necessary for the construction of the noise abatement wall and will include but not limited to:

(1) A plan view of the wall that indicates the stations and offsets from the centerline to the face of the wall and required to locate the drilled shaft foundations. The proposed foundation diameter(s) and spacing(s) shall be indicated with all changes in the walls horizontal alignment shown. Each panel and post shall be numbered and any changes in type or size shall be noted. The centerline of any utilities passing under the wall and locations of expansion joints, access doors, lighting, signing and drainage structures shall also be shown.

(2) An elevation view of the wall, indicating the elevations of the top of the posts and panels as well as the elevations of the bottom of the panels, tops of the shaft foundations, all steps in wall system and the finished grade line. Each post size and length, panel type and size, and foundation depth shall be designated.

A typical cross section(s) that shows the panel, post, foundation or bridge parapet, and the elevation relationship between existing ground conditions and the finished grade as well as slopes adjacent to the wall.

(3) All general notes required for constructing the wall.

(4) All details for the steps in the bottom of panels shall be shown. The bottom of the panels shall be located at or below the theoretical bottom of panel line shown on the contract plans. The theoretical bottom of panel line is assumed to be 150 mm (6 in.) below the finished grade line at front face of the wall for ground mounted walls and at the top of the structure for structure mounted walls, unless otherwise shown on the contract plans.

(5) Tops of the panels and posts shall extend to or above the theoretical top of wall line shown on the contract plans. All panel tops shall be cast and placed horizontally with any changes in elevation accomplished by stepping adjacent panel sections at posts. Steps shall not exceed 300 mm (1 ft.) in height, except within the last 15 m (50 ft.) where 600 mm (2 ft.) steps will be permitted.

(6) All panel types shall be detailed. The details shall show all dimensions necessary to cast and fabricate each type of panel, the reinforcing steel, and location of post or foundation connection hardware as well as lifting devices embedded in the panels and posts.

(7) All post types shall be detailed and designed for 3.6 m (12 ft.) spacing unless noted otherwise by the plans, field conditions or manufacturer. Post spacing for barriers on walls shall be limited to a distance that does not over stress the structure or barrier.

Details of wall panels with appurtenances attached to or passing through the wall, as shown on the contract plans, such as utilities, fire or access doors, drainage structures, signs etc. shall be shown. Any modifications to the design or location of these appurtenances to accommodate a particular system shall also be submitted.

Added 12/8/05

(8) All architectural panel treatment, including color, texture and form liner patterns shall be shown. All joints shall be placed horizontal or vertical.

The details for the connection between panels and posts as well as their connection to the foundation and bridge parapet shall be shown. Foundation details including details showing the dimensions, reinforcement and post anchorage system for the drilled shaft foundations shall be shown.

(9) Testing, certifications and reports from independent laboratories showing that the panel's sound transmission loss (STL) and noise reduction coefficient (NRC) for the absorptive noise reduction system as well as the panel and post deflection satisfy the criteria shown in the design criteria section of this specification. The testing for the flame spread, smoke density and freeze-thaw/salt scaling requirements described in the materials section of this specification shall also be submitted.

Manufacturer recommended installation requirements, a sequence of construction and a detailed bill of materials shall be included.

(10) The color of the wall panels and support posts shall be Federal Color Standard color number 595-B.

(11) The Contractor shall deliver to the Department (attention Mr. Rick Wanner 847-705-4172) a 600 mm x 600 mm (2 ft. x 2 ft.) sample of the colors, textures and patterns proposed for use on the project for approval. The samples must be made at the same plant that will be making the product for the noise wall under this contract and be representative of those which will be tested per this specification. Once the color sample is approved, a batch shall be designated by batch number and date and will remain the standard for the entire project.

(12) The Contractor shall submit site access plans showing access and limits of the work areas for the installation of the wall and any required traffic controls are to conform to the requirements in the special provision for TRAFFIC CONTROL PLAN.

(13) The initial submittal shall include three (3) sets of shop drawings and calculations. One set of drawings will be returned to the Contractor with any corrections indicated. The Contractor shall do no work or ordering of materials for the structure until the Engineer has approved the submittal.

Design Criteria. The wall system shall be designed to withstand wind pressure, applied perpendicular to the panels in either direction, according to the AASHTO Guide Specifications for Structural Design of Sound Barriers (latest edition) including interims. The concrete and steel components shall be designed according, to the 2002 AASHTO Standard Specifications for Highway Bridges (17th Edition), and as specified herein. The contractor shall be responsible for the structural adequacy of the panels, posts, foundations and connections as well as overall wall overturning stability. The design shall account for the presence of all appurtenances mounted on or passing through the wall such as drainage structures, existing or proposed utilities, fire or access doors and other items.

The design wind loading shall be 1.7 kN/m² (35 psf.) when located on bridge structures, retaining walls or traffic barriers. This loading can be reduced to 1.2 kN/m² (25 psf.) when ground mounted on drilled shafts. For structure-mounted walls, the panel dead weight must not exceed 2.6 kPa (55 psf.) of wall face area.

Added 12/8/05

For ground mounted noise abatement walls the posts shall be connected to drilled shafts with anchor bolts as required by design. The minimum number of anchor bolts per post shall be four M 30 A449 threaded anchor rods embedded into each foundation, which shall be reinforced in accordance with AASHTO specifications. The anchor rod assembly shall be installed and payment shall be included in the cost for NOISE ABATEMENT WALL, GROUND MOUNTED.

The material and construction of the foundations (drilled shafts) shall be in accordance with the Special Provision for DRILLED SHAFTS except that the payment for the drilled shaft and reinforcement will be included with the payment for the NOISE ABATEMENT WALL, GROUND MOUNTED.

The shaft foundation dimensions shall be determined using Broms method of analysis. Soils profiles from prior soil investigations are shown in the plans. The design shall utilize a factor of safety of 2.0, applied to the soil shear strength if cohesive or the unit weight if granular, and account for the effects of a sloping ground surface and water table indicated on the plans. The following should be assumed for the foundation design:

Effective unit weight	70pct.
Internal friction angle	30 deg.
Cohesion intercept	0 ksf

The maximum allowable panel deflection shall be no more than the panel length (L) divided by 240 (L/240) for ground-mounted panels and panel length (L) divided by 180 (L/180) for structure-mounted panels. The vertical posts shall have a maximum deflection of (H/180) where H is the height of the post above the foundation. A lateral load report shall be submitted to the Engineer indicating that the above noted design lateral loads can be applied to the panels and/or posts without exceeding noted deflection tolerance.

Corrugations, ribs or battens on the panel must be oriented vertically when erected. The panels shall be designed to prevent entrapment and ponding of water. The noise barrier walls shall not have openings allowing the perching or nesting of birds or the collection of dirt, debris or water. The walls shall not have handholds or grips promoting climbing of the walls.

The absorptive noise wall panels shall be designed to provide a sound transmission loss (STL) greater than 20 dB at every frequency, when tested in accordance with ASTM E-90. The sound absorptive material shall have a noise reduction coefficient (NRC) of 0.80 on the roadside and a 0.65 NRC on the residential side. The NRC shall be determined per ASTM E795, tested in accordance with ASTM C423 (mounting type A). The ratio of noise absorptive material on the panel surface to total wall area (including posts) shall be greater than 90%. NRC testing shall be performed on coated samples, utilizing the stain that will be applied for color and anti-graffiti purposes.

Fire hydrant access points (300mm diameter) shall be designed with additional reinforcement or bracing and protective coating around the opening as necessary to maintain structural integrity in accordance with the details shown in the plans. The Contractor is required to coordinate with the local fire departments to confirm the final placement of the fire hydrant access points. This coordination shall be done prior to the finalization of the shop drawings and the results included in the drawings submitted for approval.

Added 12/8/05

Materials. The wall materials shall conform to the supplier's standards, AASHTO Specifications for noise walls and the following:

Reinforcement bars satisfy AASHTO M 31M, M 42M, or M 53M Grade 60. Welded wire fabric shall be according to AASHTO M 55M.

The concrete for the precast elements shall be Class PC according to Section 1020 of the current IDOT Standard Specifications. Cement shall be Type I, II, or III and shall conform to the requirement of AASHTO M-85. Additives containing chloride shall not be used without the approval of the Department. The compressive strength at 28 days shall not be less than 30 MPa (4500 psi), according to Article 504.05 of the current IDOT Standard Specifications. Wooden or steel materials will not be allowed as substitutes for the panels. The concrete elements shall be tested according to ASTM C 672 (as modified in the HITEC report on sound barriers 96-04) and shall not exhibit excessive deterioration (cracks, spalls, aggregate disintegration, or other objectionable features) to demonstrate resistance to deicing chemicals. The concrete elements shall be tested according ASTM C 666 and shall not exhibit excessive deterioration to demonstrate resistance to freeze-thaw conditions.

Steel plates, posts and doors shall conform to AASHTO M 270M Grade 250 (36) or 345 (50). All portions of the post shall be galvanized according to AASHTO M111 and ASTM A385. The portion of steel posts and doors exposed to view shall then be painted with an acrylic/acrylic paint system in the shop according to the special provision CLEANING AND PAINTING NEW METAL STRUCTURES except that the inorganic zinc rich primer may be omitted. CLEANING AND PAINTING NEW METAL STRUCTURES shall be included in the unit price of the NOISE ABATEMENT WALL of the type required. The color of the acrylic/acrylic paint system shall closely match the panels. Steel bolts, nuts, washers and anchor bolts shall be galvanized according to AASHTO M232.

Coloring of concrete elements shall be accomplished using a single component, water based sound adsorptive penetrating architectural stain satisfying ASTM G155 –Xenon light source.

The Noise Barrier Wall surfaces shall be prepared in accordance with the stain manufacturer's written instructions. Surfaces must be clean and free of oil, grease, laitance, efflorescence and any other contaminants that could prevent good adhesion.

Prior to use, the stain shall be thoroughly mixed using a drill with a "Jiffy" type mixer attachment or other mechanical means suitable for use. Mix approximately 3-5 minutes or until color is uniform throughout and the material is homogeneous. Remix as required to maintain uniformity.

Penetrating Architectural Concrete Stain must be applied at the manufacturing plant. Staining in the field on site will not be allowed. In order to apply stain, both the Noise Barrier panels and air temperature must be between 45°F and 90°F. Stain shall not be applied unless weather conditions will permit complete drying of material prior to rain, fog, dew or temperatures beyond the prescribed limits. Stain shall not be applied to damp surfaces. Stain shall be applied in one coat and shall provide a uniform appearance. The final color shall be consistent with the quality and appearance of the approved sample area.

Added 12/8/05

The finish will consist of a rolled Ashlar Stone finish. Rolled finishes shall have a minimum 0.75 in. (19 mm) impression.

With the exception of the steel and Portland cement concrete elements of the wall, all materials shall be tested for flame spread and smoke density developed in accordance with ASTM E84. The material must exhibit a flame-spread index less than 10 and a smoke density developed value of 10 or less.

Fabrication. All precast units shall be manufactured according to Section 504 of the Standard Specifications and the following requirements and tolerances with respect to the dimensions shown on the approved shop drawings.

The minimum reinforcement bar cover shall be 40 mm (1½ in.).

All reinforcement shall be epoxy coated.

Panel dimensions shall be within 6 mm (¼ in.).

All hardware embedded in panels or posts shall be within 6 mm (¼ in.).

Angular distortion with regard to panel squareness, defined as the difference between the two diagonals, shall not exceed 13 mm (½ in.).

Surface defects on formed surfaces measured on a length of 1.5 m (5 ft.) shall not be more than 2.5 mm (0.10 in.).

Posts shall be installed plumb to within 13 mm (½ in.) of vertical for every 5 m (15 ft.) of height and to within 13 mm (½ in.) of the station and offset indicated on the approved shop drawings.

Drilled shaft foundations shall be placed within 50 mm (2 in.) of the station and offset indicated on the approved shop drawings.

All lifting inserts cast into the panels shall be hot dipped galvanized.

The date of manufacture, the production lot number, and the piece-mark shall be clearly noted on each panel.

Both faces of the panels shall provide sound absorptive treatment satisfying the criteria noted in the design section of this specification or otherwise stated in the contract plans. Absorptive material shall be permanently attached to their supporting elements and no external mechanical fastening systems such as frames or clips shall be used. Any bolts or fasteners used shall be recessed or embedded below the surface.

Both sides of the panels shall be light brown in color with a textured Ashlar Stone finish unless stated otherwise on the contract plans.

The panels, posts and other visible elements shall be fabricated with a light brown earth tone color following the procedures noted in the materials section of this specification unless otherwise shown on the contract plans.

Added 12/8/05

Emergency Access Doors:

DESCRIPTION: This work shall consist of furnishing materials and placement of steel doors, frames, finish hardware and signing in accordance with these specifications, in reasonably close conformance to the plans or as directed by the engineer.

LOCATIONS: The emergency access doors shall be located in close proximity to the following locations. The Contractor shall coordinate the identified locations with the local agency fire department emergency officials. The Emergency access doors are not to be located within noise wall panels that are above the retaining wall expansion joints.

1. I-94 EB Station 19+125 29.780 m left

DESIGN CRITERIA: The assembled emergency access doors shall be designed to achieve a sound transmission loss equal to or greater than 20 decibels at all frequencies when tested in accordance with ASTM E 90.

All materials, except paints and coatings, shall have a minimum predicted maintenance free life span of 20 years. All colorings and coatings shall have a minimum predicted maintenance free lifespan of 10 years.

The finish paint coat color of the acrylic/acrylic paint system shall closely match the panels.

SUBMITTALS: The Contractor shall submit shop drawings for approval with the Sound Barrier System design drawings, and prior to fabrication. The shop drawings shall include all details, dimensions and quantities necessary to construct the emergency access doors.

The Contractor shall submit all test reports and certifications required herein. All test reports and certifications shall reference materials made at the specific facility, which manufactures the material. Certification shall be in accordance with a type C defined in 916.

MATERIALS: Unless noted, materials shall be in accordance with the following:

Steel doors and frames: Steel sheet, zinc coated (galvanized) by hot dip process; commercial quality, ASTM A 526, G 20.

Bonderizing: SSPC PT4, hot phosphate surface treatment.

Primer: Manufacture's standard, rust inhibitive baked on primer.

Protective coating: Asphalt based coating, FS TT-V-51.

Finish coat: The color of the acrylic/acrylic paint system shall closely match the panels.
Added 12/8/05

Finish Hardware:

1. Hinges shall be 114 mm (4-1/2 inches) by 114 mm (4-1/2 inches), provide sufficient width to permit doors to swing 180° and be flush bearing design. Hinge standards: Hager, McKinney, Stanley and Rixon.
2. Access shall be from the outside of the noisewall only. The door shall be self-latching with a padlockable hasp and provided with a large handle to ease the opening of the door. The latching mechanism shall be of bronze, stainless steel, or nickel silver. One (1) weather resistant stainless steel padlock and two (2) keys shall be provided by the Contractor as approved by the Engineer. The Contractor shall provide the keys to the Engineer once the locks have been placed.
3. Operating trim standards: Brookline, CIPCO and Rockwood.
4. Protective plate standards: Brookline, CIPCO, Hiawatha and Rockwood.
5. Threshold standards: National Guard Products, Pemko, Reese and Zero.
6. Grab bar requirements: Grab bars shall be type 304 (18-8) stainless steel with a safety grip finish. The bar tubing shall be 38 mm (1-1/2") O.D., 18-gauge, and seamless construction. Flanges shall be of minimum 11-gauge steel. Grab bars shall meet or exceed ANSI standards and withstand loads in excess of 600 kg (1300 lbs) without failure. Bent ends of the tubing are to pass thru mounting flanges and are heliarc welded into a single structural unit. The bars are to be 600 mm (24 inches) in length and provide 38 mm (1-1/2") safety clearance between bar and door structure that it is mounted on. Grab bars are to be mounted to the surface of the door and to the doorframe per manufactures instructions and at the locations shown on the detail.
7. Keying standard: Master with identical keying.

The steel doors and frames for the emergency access doors shall be fabricated in accordance with NAAMM CHM, except as noted:

Doors shall be full flush seamless type fabricated from 16 gauge (minimum) stretcher leveled cold rolled steel sheets. The doors shall be reinforced and stiffened at 150 mm (6 inch) spaces on center vertically. Vertical edges shall be joined either by a continuous weld extending the full door height or by a 14-gauge (minimum) channel with 2 continuous full height welds. Welds shall be ground, filled and dressed smooth. Edges shall be beveled 3 mm (1/8 inch) in 50 mm (2 inches). A 14-gauge (minimum) reinforcing channel at the top and bottom of the door shall be spot welded within the door. The top and bottom of the door shall be closed flush to the door face sheets.

Added 12/8/05

Minimum reinforcement for the finish hardware shall be:

1. 4.76 mm (3/16 inch) for hinges.
2. 12 gauge for locks, flush bolts, holders and closures.
3. 16 gauge for surface applied items.

Door frames shall be roll formed from 14 gauge (minimum) cold rolled steel sheets. Doorframes shall have mitered corners with contact edges perfectly membered. Corner faces shall be continuously welded. The use of gusset plates will not be allowed. All stops shall be butted. Cope and weld butt joints. Grind welds to a smooth uniform finish.

Minimum reinforcement for finish hardware shall be:

1. 4.76 mm (3/16 inch) by 254 mm (10 inches) by jamb width for hinges.
2. 12 gauge for locks, flush bolts, holders and closures.
3. 16 gauge for surface applied items.

After fabrication, exposed metal parts shall be cleaned of all rust, scale, oil, grease or other foreign matter; then bonderized and one shop coating of primer applied. The finish coat may be field applied. Apply protective coating shall be applied to door frame surfaces, which are concealed.

GENERAL CONSTRUCTION REQUIREMENTS: Steel doors and frames for Emergency Access Doors shall be installed in accordance with the approved shop drawings and printed instructions of the manufacture. The finish hardware shall be installed in as recommended by the National Builders' Hardware Association and in accordance with the manufacture's installation instructions.

Steel doors and frames shall be protected from continuing construction operations by board covering to a height of 1.5 meters (5 feet).

The integrity of the sound barrier continuity, including the emergency access doors, shall be such that no light passes through any vertical or horizontal joint in the system, nor between the system and the ground.

Added 12/8/05

SIGNS.

Signing at each emergency access door: The Contractor shall furnish the signs, which are shown on the table included herein and shall install them on the noise wall or access doors as detailed in the plans.

Signing at each emergency access door: The Contractor shall furnish the signs, which are shown on the table included herein and shall install them on the noise wall or access doors as detailed in the plans.

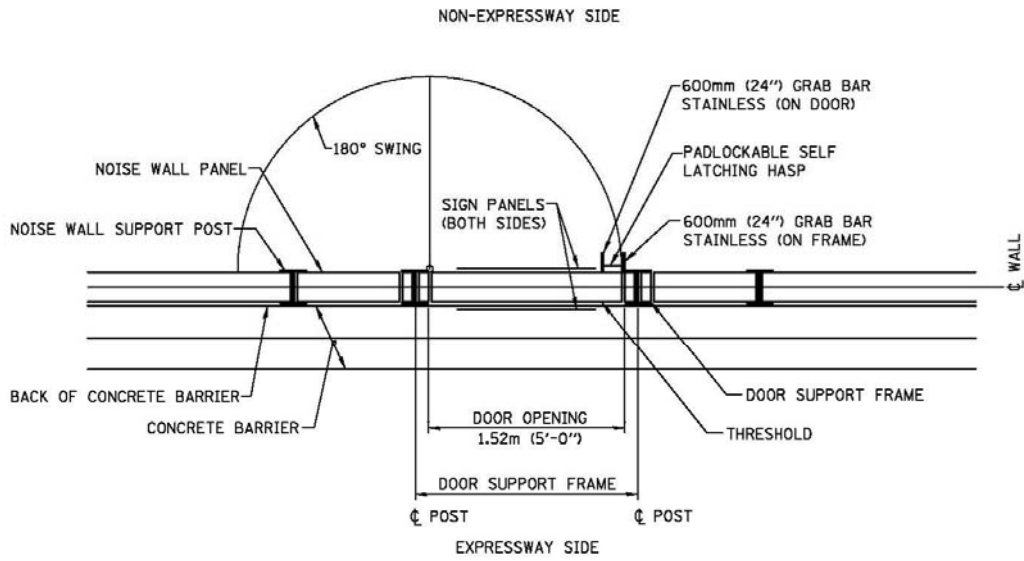
LEGEND LAYOUT	SIZE (MM)	SIGN SIZE & COLOR LEGEND / BACKGROUND BORDER	NUMBER OF SIGNS	
EMERGENCY ACCESS	100 125C 100 125C 100	1050 MM X 450 MM WHITE / RED 15 MM BORDER	2	

166 th St.	100 100C 100	450 MM X 300 MM, WHITE / RED, 15 MM BORDER	2	
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The signs shall be paid for in accordance with Section 720 of the Standard Specifications for Sign Panel, Type 1 and shall include the fabrication and installation of the sign panels to the sound barrier system and emergency access door as shown in the details.

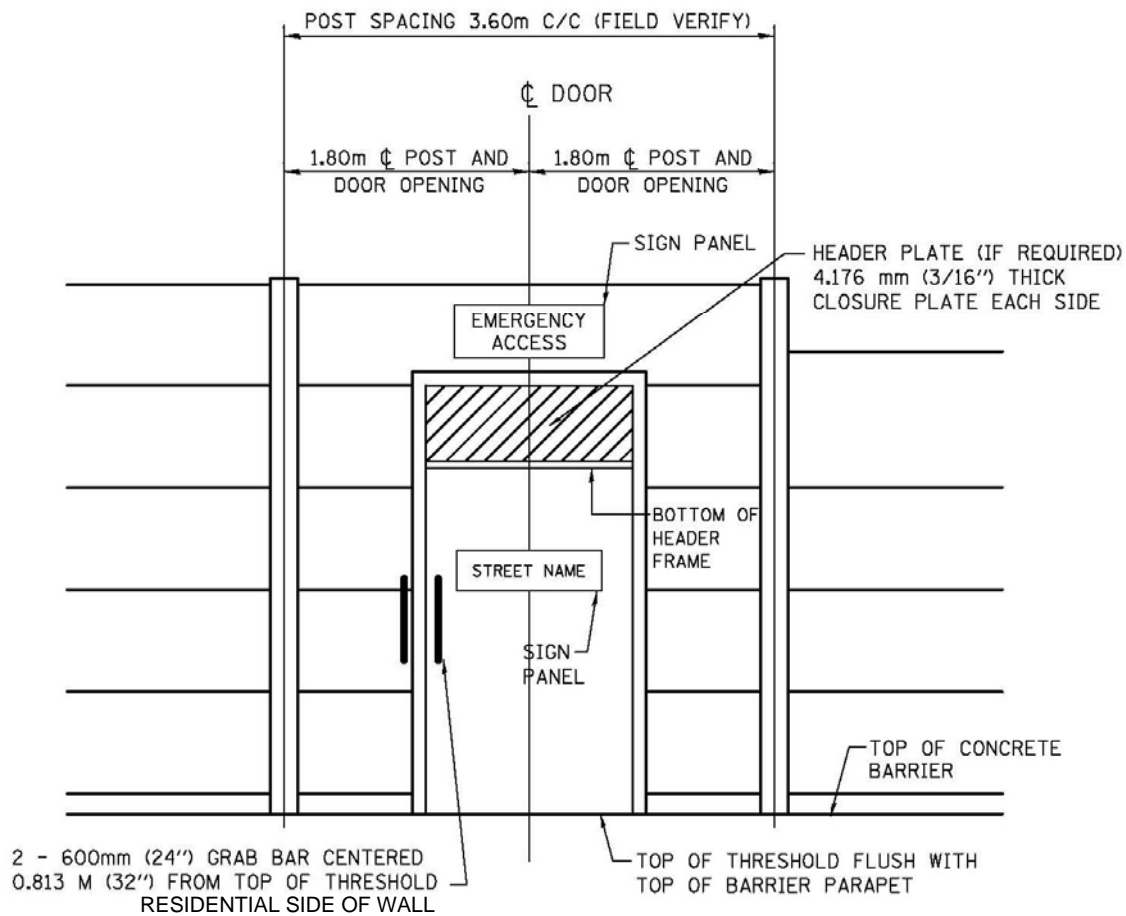
All emergency access door materials, including steel doors, frames, finish hardware, attachments to vertical support posts and incidentals shall be included in the cost of the wall mounted sound barrier panels. All labor and materials required to erect and install emergency access doors shall be included in the unit cost for NOISE ABATEMENT WALL, STRUCTURE MOUNTED.

Added 12/8/05



EMERGENCY ACCESS DOOR
TOP VIEW

Added
12/8/05



EMERGENCY ACCESS DOOR

ELEVATION VIEW
 FROM EXPRESSWAY SIDE

Construction. The Contractor shall obtain technical assistance from the supplier during wall erection to demonstrate proper construction procedures and shall include any costs related to this technical assistance in the unit price bid for this item. The instructions provided here are guidelines and do not relieve the contractor of the responsibility to adhere to contract specifications.

Added 12/8/05

It is recommended that all bottom panels be installed for a length of wall prior to placing middle or top panels. After bottom panels are in-place, finish grading can be accomplished with heavy equipment by reaching over the in-place panels. Problems associated with lack of access to the backside of the wall or limited right-of-way can be avoided.

Site excavations and/or fill construction shall be completed to plan elevations and profiles prior to the start of wall foundation construction. All underground utility or drainage structure installation shall be completed prior to foundation installation. The ground elevations as shown on the plans and the approved noise barrier wall shop drawings shall be verified by the contractor and discrepancies corrected prior to material fabrication. The locations of underground utilities and overhead obstructions shown on the plans shall be verified and considered by the Contractor prior to wall erection.

If the soils encountered during drilling of the foundations do not satisfy the design strengths shown on the contract plans, the Engineer shall be notified to evaluate the required foundation modifications. The shaft foundation will normally require additional length, which may be paid separately under Article 104.03 of the Standard Specifications. All drilled shaft excavations shall be filled with concrete within 6 hours of their initiation. The concrete for the drilled shaft foundations shall be Class SI and shall be placed against undisturbed, in-place soils. The concrete at the top of the shaft shall be shaped to provide the panels on each side of the post adequate bearing area and correct elevation per the approved shop drawings.

Units shall be shipped, unloaded, handled and stored in such a manner as to minimize the danger of staining, chipping, spalling, development of cracks, fractures, and excessive bending stresses. Any touch up and repair is at the Contractor's expense and shall be carried out according to the manufacturer's recommendations or as directed by the Engineer.

Method of Measurement. The noise abatement wall will be measured by the square meter (square foot) from the wall envelope, defined by the theoretical top of wall line to the theoretical bottom of panel line for the length of the wall (ground mounted or structure mounted) as shown on the contract plans.

Basis of Payment. This work will be paid for at the contract unit price per square meter (square foot) for NOISE ABATEMENT WALL, GROUND MOUNTED and/or NOISE ABATEMENT WALL, STRUCTURE MOUNTED measured as provided above. This shall be payment in full for developing the wall and foundation design, preparation of shop drawings, all labor, equipment and material required for the manufacture, testing, delivery and erection of the panels, concrete or metal posts, all fire hydrant access openings, emergency access doors and coordination, post connection system to the foundation (or structure), and foundations (for the ground mounted walls only). The cost of the signs shall be paid for in accordance with Section 720 of the Standard Specifications for Sign Panel, Type 1 and shall include the fabrication and installation of the sign panels to the sound barrier system and emergency access door as shown in the details.

Added 12/8/05

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Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
MX030144	CB 1.2X0.9 SPL T20F&G	EACH	25.000				
MX030170	CB 1.2X1.5 SPL T22F&G	EACH	3.000				
* MX030236	REMOV STL SHT PILING	SQ M	288.000				
MX030257	ERECT F B G-EX 1250KN	EACH	2.000				
MX030258	ERECT F B G-EX 1500KN	EACH	12.000				
MX030272	ERECT F B G-EX 750KN	EACH	12.000				
MX030301	CON ATS 100 GALVS PVC	METER	3.000				
MX030355	NOISE AB WALL GRD MT	SQ M	2,181.000				
MX030356	NOISE AB WALL STR MT	SQ M	6,408.000				
MX030504	TEMP PAVT INTERSTATE	SQ M	1,581.000				
MX030507	STORM SEW/CUL GROUTED	CU M	92.000				
MX030523	ERECT FB FIXED 1500KN	EACH	12.000				
MX030573	ERECT F B F 2250KN	EACH	12.000				
MX032160	CON EN RC 100 PVC 2X1	METER	280.000				
MX032161	CON EN RC 100 PVC 2X2	METER	55.000				
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MX032178	TEMP INFO SIGNING	SQ M	135.460				
MX032651	MULCH PLACEMENT 100	SQ M	8,370.000				
MX032708	STRP SEAL EXP JT ASSY	METER	44.700				
MX033141	BR JOINT SYS EXPAN 25	METER	15.400				
* MX033183	SOIL STABILIZERS	KG	1,501,496.000				
* MX033276	TEMP SOIL RETEN SYSTM	SQ M	915.500				
MX033290	SED CONT SILT FENCE	METER	2,877.000				
MX033291	SED CON SILT FEN MAIN	METER	1,239.000				
MX033292	SED CON STAB CONST EN	SQ M	900.000				
MX033303	SED CON STAB CON EN M	SQ M	900.000				
MX033387	CON ATS 25 RGS PVC	METER	3.000				
MX033533	ERECT MOD EX JT 160	METER	14.700				
MX033555	PT PVT MK LIN 125 SP	METER	155.000				
MX033557	CON T 3-100 R GALVS	METER	30.500				
MX033558	CON ATS 3-100 GAL PVC	METER	208.400				
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MX033565	CON EC RC 30 CNC 4X2	METER	283.900				
MX033569	CON EMB 100 CNM 1X1	METER	4.000				
MX033570	CON EN RC 100 PVC 3X2	METER	27.000				
MX033571	ERECT F B G-EX 2000KN	EACH	10.000				
MX033572	ERECT F B G-EX 8000KN	EACH	1.000				
MX033573	SLIP ON FB CK VLV 375	EACH	1.000				
MX033574	RAP 75MM	SQ M	1,119.000				
MX033575	REM MCHSTAB EARTH WALL	SQ M	202.000				
MX033576	CON T 2-100 GALVS PVC	METER	15.100				
MX033577	CON ATS 2-100 RGS PVC	METER	210.800				
MX033579	CON ES1-100 30CNC 4X2	METER	1,371.600				
MX033580	ORNAMENTAL FENCE	METER	20.000				
MX033581	BAR SUP ST NOIS AB WL	METER	1,314.000				
* MX033692	AGG SUBBASE 300	SQ M	102.000				
MX355150	BIT BC SUPER 150	SQ M	33.000				
MX406012	BC SC SUPER "C" N50	M TON	5.000				
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MX406078	P BCSC SUPER "F" N105	M TON	104.000				
MX406210	BCBC SUP IL-25.0 N105	M TON	42.000				
MX407440	BIT C PVT FD SUP 290	SQ M	258.000				
MX482460	BIT SHLD SUPER 330	SQ M	492.000				
MX602310	CB 1.2X0.9 T20F&G	EACH	7.000				
MX637150	CONC BAR 1F 1065HT SP	METER	1,061.000				
MX704200	REM TEMP CONC BARRIER	METER	8,937.400				
MZ001045	AGG SUBGRADE 225	SQ M	1,119.000				
MZ001050	AGG SUBGRADE 300	SQ M	5,852.000				
MZ008810	DRIL SHAFT/SOIL 610	METER	25.000				
MZ008830	DRIL SHAFT/SOIL 915	METER	49.000				
MZ008860	DRIL SHAFT/SOIL 1220	METER	298.100				
MZ008876	DRIL SHAFT/SOIL 1676	METER	130.100				
MZ008990	DRIL SHAFT/SOIL 1980	METER	12.900				
* MZ013825	CONTR LOW-STRENG MATL	CU M	60.800				
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MZ022800	FENCE REMOVAL	METER	1,784.000				
MZ039300	PERMANENT CASING	METER	286.400				
MZ047300	PROTECTIVE SHIELD	SQ M	803.000				
MZ064800	SELECTIVE CLEARING	UNIT	93.000				
MZ065755	SLOT DR 300 W/VAR SL	METER	239.500				
M2010110	TREE REMOV 6-15	UNIT	210.000				
M2010210	TREE REMOV OVER 15	UNIT	188.000				
M2010500	TREE REMOV HECTARES	HA	0.700				
M2011000	TEMPORARY FENCE	METER	5,436.500				
* M2020010	EARTH EXCAVATION	CU M	75,923.000				
* M2021200	REM & DISP UNS MATL	CU M	8,061.000				
* M2040800	FURNISHED EXCAV	CU M	45,331.000				
M2070220	POROUS GRAN EMBANK	CU M	207.000				
M2070400	POROUS GRAN EMB SPEC	CU M	1,381.000				
M2070420	POROUS GRAN EMB SUBGR	CU M	100.000				
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M4812280	AGGREGATE SHLDS B 280	SQ M	242.000				
M4812360	AGGREGATE SHLDS B 360	SQ M	1,104.000				
* M4820150	BIT SHOULDERS 150	SQ M	200.800				
M4830150	PCC SHOULDERS 150	SQ M	2,410.000				
M4830280	PCC SHOULDERS 280	SQ M	2,223.000				
M4830360	PCC SHOULDERS 360	SQ M	25,745.000				
M4832000	PROTECTIVE COAT	SQ M	30,377.000				
M5010522	PIPE CULVERT REMOV	METER	77.500				
* M5020100	STRUCTURE EXCAVATION	CU M	4,232.000				
M5020200	COFFERDAM EXCAVATION	CU M	470.000				
M5030115	NEOPRENE EXPAN JT 65	METER	14.000				
M5030125	NEOPRENE EXPAN JT 100	METER	52.100				
* M5030350	CONC STRUCT	CU M	2,726.600				
M5030360	CONC SUP-STR	CU M	2,448.100				
M5030380	RUSTICATION FINISH	SQ M	150.000				
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M5030390	BR DECK GROOVING	SQ M	9,376.000				
M5030400	SEAL COAT CONC	CU M	134.000				
M5030450	PROTECTIVE COAT	SQ M	10,916.000				
M5041219	F&E P P CON I-BM 1219	METER	587.000				
M5050305	ERECT STRUCT STEEL	L SUM	1.000				
M5050405	F & E STRUCT STEEL	KG	2,474.000				
M5080105	REINFORCEMENT BARS	KG	87,995.000				
* M5080205	REINF BARS, EPOXY CTD	KG	580,920.000				
M5110100	SLOPE WALL 100	SQ M	2,836.000				
M5120100	F MET PILE SHELL 305	METER	2,388.000				
M5120160	F STL PILE HP310X79	METER	4,192.000				
* M5120180	F STL PILE HP360X108	METER	3,100.200				
* M5120315	DRIVE STL PILE	METER	7,292.200				
M5120340	DRIV & FILLING SHELLS	METER	2,388.000				
M5120460	TEST PIL ST HP310X79	EACH	7.000				
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M5120480	TEST PIL ST HP360X108	EACH	10.000				
* M5120900	TEMP SHT PILING	SQ M	995.000				
M5403000	CONC BOX CUL	CU M	139.400				
M542E112	PRC FL-END SEC 300	EACH	4.000				
M542E128	PRC FL-END SEC 600	EACH	2.000				
M542G035	GRAT-C FL END S 600	EACH	2.000				
M5502840	SS 1 RCP CL 4 300	METER	317.500				
M5502850	SS 1 RCP CL 4 375	METER	31.500				
M5503050	SS 2 RCP CL 3 300	METER	508.500				
M5503060	SS 2 RCP CL 3 375	METER	253.000				
M5503090	SS 2 RCP CL 3 600	METER	178.000				
M5503260	SS 3 RCP CL 4 300	METER	60.000				
M5510025	STORM SEWER REM 300	METER	1,871.500				
M5510035	STORM SEWER REM 375	METER	563.500				
M5510045	STORM SEWER REM 450	METER	400.000				
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M5510055	STORM SEWER REM 525	METER	39.000				
M5510060	STORM SEWER REM 600	METER	341.500				
M5510070	STORM SEWER REM 750	METER	120.500				
* M5870020	BRIDGE SEAT SEALER	SQ M	168.200				
M6010085	GEO FAB-FRENCH DRAIN	SQ M	1,804.500				
M6010610	PIPE UNDERDRAINS 150	METER	8,603.500				
M6010710	PIPE UNDERDRN 150 SP	METER	241.000				
M6020105	CB A 1.2M D T1F OL	EACH	7.000				
M6020140	CB A 1.2M D T8G	EACH	4.000				
M6020405	CB A 1.5M D T1F OL	EACH	1.000				
M6021410	MAN A 1.2D T1F CL	EACH	4.000				
M6021610	MAN A 1.5D T1F CL	EACH	3.000				
M6060010	CLASS SI CONC OUTLET	CU M	3.435				
M6060070	CONC CURB TB	METER	74.400				
M6060260	CONC GUTTER TA	METER	64.200				
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M6060270	CONC GUTTER TA MOD	METER	119.000				
M6060500	COMB CC&G TB15.30	METER	29.000				
M6063620	CONC MEDIAN SURF 150	SQ M	18.000				
* M6300100	SPBGR TY A	METER	2,804.190				
M6300130	SPBGR TY D	METER	388.620				
M6320030	GUARDRAIL REMOV	METER	1,042.000				
M6370275	CONC BAR 2F 1065HT	METER	1,532.000				
M6370805	CONC BAR TRANS	METER	188.000				
M6371050	BARRIER BASE	METER	2,781.000				
M6380205	CONC GLARE SCREEN SPL	METER	14.500				
M6380600	MOD GLARE SCRNSYS	METER	4,280.000				
M6420015	SHOULDER RUMBLE STRIP	METER	12,341.000				
M6640120	CH LK FENCE 1.8	METER	1,164.500				
M6641620	CH LK GATE 1.8X3.7 DB	EACH	2.000				
M6641650	CH LK GATE 1.8X5.5 DB	EACH	3.000				
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M7030240	TEMP PVT MK LINE 150	METER	711.000				
M7030520	PAVT MARK TAPE T3 100	METER	17,980.000				
M7030530	PAVT MARK TAPE T3 125	METER	749.000				
M7030550	PAVT MARK TAPE T3 200	METER	4,679.000				
M7030560	PAVT MARK TAPE T3 300	METER	436.000				
M7031000	WORK ZONE PAVT MK REM	SQ M	3,665.000				
M7040100	TEMP CONC BARRIER	METER	1,815.300				
M7040210	REL TEMP CONC BAR SPL	METER	6,390.000				
* M7200100	SIGN PANEL T1	SQ M	25.310				
M7200200	SIGN PANEL T2	SQ M	19.440				
M7200300	SIGN PANEL T3	SQ M	316.420				
M7240310	REMOV SIGN PANEL T1	SQ M	0.750				
M7240320	REMOV SIGN PANEL T2	SQ M	6.840				
M7240330	REMOV SIGN PANEL T3	SQ M	61.820				
M7240730	RELOC SIGN PANEL T3	SQ M	7.200				
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TWY00380	F&E STRUCT STL MISC	KG	111.000				
TWY00400	REINF STEEL EPOXY CTD	KG	30,531.000				
TWY00410	FURNISH STEEL PILES	METER	425.000				
* DELETED							
TWY00440	TEST PILES	METER	31.000				
TWY00470	SCUPPER	EACH	2.000				
TWY00499	BR DECK GROOVING	SQ M	494.000				
TWY00500	APPLY CONC SEALANT	SQ M	698.000				
TWY00520	BRIDGE APPROACH SLAB	SQ M	102.000				
TWY00540	GEOCOMPOSITE WALL DR	SQ M	20.000				
TWY00630	REINF CONC PIPE 600	METER	57.500				
TWY00690	COARSE AGGR BACKFILL	CU M	200.000				
TWY00770	SUB SUR PVT DR FF 150	METER	368.500				
TWY00795	OUTLET SUB DR 150	METER	16.500				
TWY01270	GDRL ANCHOR INSTL T4	EACH	2.000				
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TWY01470	BARRIER DELINEATOR	EACH	2.000				
TWY01580	WOOD SIGN SUPPORT	METER	5.000				
TWY01640	ROW FENCING TYPE 1	METER	383.000				
TWY01650	CORN POST ROW FEN T1	EACH	6.000				
TWY01660	PULL POST ROW FEN T1	EACH	1.000				
TWY01670	END POST ROW FEN T1	EACH	1.000				
TWY01680	ROW FENCE REMOVAL	METER	325.000				
TWY01690	ROADWAY DELINEATORS	EACH	30.000				
TWY01700	EPOXY PVT MK LN 100	METER	914.000				
TWY04106	END POST/STR ROW F T1	EACH	1.000				
* TWY04113	DRIVING STEEL PILES	EACH	28.000				
TWY04136	AGG SHLD W/FILT FAB	M TON	303.000				
TWY04137	ER E BRGASYT1800/1000	EACH	12.000				
TWY04138	STR SUBDRAIN FF 150	METER	21.000				
TWY04139	ERECT STR STL GDR SPN	L SUM	1.000				
TWY04140	AGG BASE CSE	CU M	66.000				
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X0323426	SED CONT DR ST INL CL	EACH	331.000				
X0323830	DRAINAGE SCUPPR DS-11	EACH	15.000				
X0324044	EROS CON TEMP P SL DR	EACH	10.000				
X0324045	SED CON STAB CON EN R	EACH	4.000				
X0324587	NOIS AB WAL A-ROD ASY	EACH	46.000				
* X0324698	APPLY DUST SUP AGENTS	UNIT	5,775.000				
X0325130	TUBULAR TRAF SGN POST	EACH	6.000				
X0325176	CONC FILL STEEL POST	EACH	7.000				
X0504200	CONCRETE HEADWALL	EACH	1.000				
X0976500	END SECTIONS REMOVED	EACH	6.000				
X4210390	LUG SYSTEM COMPL SPL	EACH	1.000				
X6020166	DR STR T1 SP 2T20F&G	EACH	4.000				
X7011015	TR C-PROT EXPRESSWAYS	L SUM	1.000				
X7013820	TR CONT SURVEIL EXPWY	CAL DA	240.000				
X7015000	CHANGEABLE MESSAGE SN	CAL MO	8.000				
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50100400	REM EXIST STRUCT N2	EACH	1.000				
50100500	REM EXIST STRUCT N3	EACH	1.000				
50104400	CONC HDWL REM	EACH	3.000				
50200900	COFFERDAM PIER 4	EACH	1.000				
50300100	FLOOR DRAINS	EACH	6.000				
50300310	ELAST BEARING ASSY T1	EACH	24.000				
50300320	ELAST BEARING ASSY T2	EACH	8.000				
50300440	ERECT ELAS BRG ASY T1	EACH	36.000				
50300460	ERECT ELAS BRG ASY T3	EACH	9.000				
* 50500505	STUD SHEAR CONNECTORS	EACH	28,762.000				
51203200	TEST PILE MET SHELLS	EACH	3.000				
51500100	NAME PLATES	EACH	4.000				
60100060	CONC HDWL FOR P DRAIN	EACH	28.000				
60207605	CB TC T8G	EACH	12.000				
60250200	CB ADJUST	EACH	9.000				
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60255500	MAN ADJUST	EACH	6.000				
60256400	MAN ADJ NEW T8G	EACH	2.000				
60257900	MAN RECONST	EACH	2.000				
* 60258200	MAN RECON NEW T1F CL	EACH	5.000				
60300105	FR & GRATES ADJUST	EACH	28.000				
60500040	REMOV MANHOLES	EACH	22.000				
60500050	REMOV CATCH BAS	EACH	27.000				
60500060	REMOV INLETS	EACH	58.000				
60900315	TY D INLET BOX 609006	EACH	3.000				
60900515	CONC THRUST BLOCKS	EACH	3.000				
63100045	TRAF BAR TERM T2	EACH	3.000				
63100070	TRAF BAR TERM T5	EACH	5.000				
63100085	TRAF BAR TERM T6	EACH	8.000				
63100167	TR BAR TRM T1 SPL TAN	EACH	8.000				
* 63301990	REM RE-E T B TERM T1	EACH	1.000				
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* 63302000	REM RE-E T B TERM T2	EACH	2.000				
63302700	REM RE-E T B TERM T6	EACH	1.000				
63500105	DELINEATORS	EACH	142.000				
67100100	MOBILIZATION	L SUM	1.000				
70101800	TRAF CONT & PROT SPL	L SUM	1.000				
70102550	TR CONT-PROT TEMP DET	EACH	1.000				
72600100	MILEPOST MKR ASSEMBLY	EACH	1.000				
73600100	REMOV OH SIN STR-SPAN	EACH	2.000				
73602000	REM OVHD SN STR-BR MT	EACH	1.000				
73700100	REM GR-MT SIN SUPPORT	EACH	6.000				
73700300	REM CONC FDN-OVHD	EACH	4.000				
78100100	RAISED REFL PAVT MKR	EACH	1,773.000				
78100105	RAISED REF PVT MKR BR	EACH	142.000				
78200100	MONODIR PRIS BAR REFL	EACH	946.000				
78200420	GUARDRAIL MKR TYPE B	EACH	87.000				
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