

SECTION 01560 MAINTENANCE OF WORK SITEPART 1 - GENERAL

1.1 Scope: This Section covers the general overall maintenance of the entire project site to assure the safety and protection of the CONTRACTOR'S employees, general public, materials incorporated into the project, and property within the project limits of any Task Order.

1.2 Safety and Protection:

A. CONTRACTOR shall be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the work. He shall take all necessary precautions for the safety of employees and the public, and shall provide the necessary protection to prevent damage, injury or loss to:

I. All employees involved with the work and other persons who may be affected thereby.

2. All the work and all materials or equipment to be incorporated therein, whether in storage on or off the site.

3. Other property at the site or adjacent thereto, including trees, shrubs, lawns, walks, pavements, roadways, structures and utilities not designated for removal, relocation or replacement in the course of construction.

4. Existing site piping, structures, electrical services, water, and other underground properties.

B. The CONTRACTOR shall notify owners of adjacent utilities when prosecution of the work may affect them. All damage, injury or loss to any property referred to in Paragraphs 1.2.A.3 and 1.2.A.4 above, directly or indirectly, in whole or in part, by CONTRACTOR, any part, to the fault or negligence of CONTRACTOR, shall be replaced or restored to at least original condition at CONTRACTOR'S expense. CONTRACTOR'S duties and responsibilities for the safety and protection of the work shall continue until such time as all the work is completed and ENGINEER has issued a notice to OWNER and CONTRACTOR as described herein that work is acceptable.

C. The CONTRACTOR shall not load or permit any part of any structure to be loaded with a weight that would endanger its safety.

D. The CONTRACTOR shall provide protection of the work from freezing and from other elements which would be harmful to it. The CONTRACTOR shall furnish heat or protective shelters or temporary buildings as required for the prosecution and protection of the work.

E. The CONTRACTOR shall take all necessary precautions for the safety of employees on the work and shall comply with all applicable provisions of Federal, State

and local safety laws and building codes to prevent accidents or injury to persons on, about or adjacent to the premises where the work is being performed. He shall erect and properly maintain at all times, as required by the conditions and progress of the work, all necessary safeguards and barricades for the protection of employees on the work and the safety of others employed near the work and public, and shall post danger signs and warning lights warning against the hazards created by such features of the construction as protruding nails, hoists, excavations, elevator hatchways, scaffoldings, window openings, stairways and falling materials.

F. The CONTRACTOR shall designate a responsible member of its organization on the work whose duty shall be the prevention of accidents.

G. The CONTRACTOR shall immediately report in writing, giving full details, to the OWNER all serious accidents which arise out of or in connection with the performance of the work, whether on or adjacent to the site, which cause death, serious personal injury or substantial property damage is caused, the accident shall be reported immediately by telephone or messenger to the ENGINEER. If a claim is made or suit is filed by anyone against the CONTRACTOR or any Sub-Contractor on account of any accident, the CONTRACTOR shall promptly report the facts in writing to the ENGINEER, with a copy to the OWNER, giving full details of the claim.

H. The CONTRACTOR shall assume all risks of loss damage of any kind to any vehicles, machinery, equipment, materials or supplies which he shall provide in doing the work.

I. The CONTRACTOR shall take all precautions to prevent damage to the work by the elements, storm or by water entering the site of the work directly or through the ground. In case of damage by the elements, storm or water, the CONTRACTOR shall make such repairs or replacements or rebuild such parts of the work as the ENGINEER may require in order that the work may be completed as required.

J. The CONTRACTOR shall post illuminated warning and danger signs so as to alert all persons against any hazards created by the work being done under this contract.

K. The CONTRACTOR shall maintain drainage which may be interrupted by his work and shall provide pumping if necessary to route drainage water around the work.

L. The CONTRACTOR shall schedule and conduct a safety meeting at least once per week. Mandatory attendance is required of the Project Superintendent.

1.3 Protection of Public: The CONTRACTOR shall conduct his work so as to interfere as little as possible with the private personal activities of residents, private business and public business and travel. Wherever necessary or required, and at his own expense, he shall maintain fences, furnish full-time or part-time watchmen, guards, flagman and or like protective personnel, maintain lights, and take such actions, precautions as may be necessary to protect life and property.

1.4 Nuisance and Dust Control: During the course of the work the CONTRACTOR shall take steps at his cost as necessary to prevent public nuisance on demand of the ENGINEER by holding down the raising of dust or spraying of mud from construction operation, vehicular traffic, wind or other causes.

PART 2 - PRODUCTS (NOT USED) PART 3 - EXECUTION (NOT USED)

PART 4 - MEASUREMENT AND PAYMENT

4.1 Measurement and Payment: Work under this Section will not be measured for payment. The cost of this work shall be included in other items to which it is subsidiary.

- END OF SECTION -



## SECTION 01700

### TASK ORDER CONTRACT CLOSEOUT

#### PART I - GENERAL

- 1.1 Scope: This section covers requirements for closeout of work for a Task Order.
- 1.2 Requirements: The CONTRACTOR shall comply with the requirements stated in the General Conditions and in the Specifications for administrative procedures in closing out the Work.
- 1.3 Substantial Completion:
- A. When the CONTRACTOR considers the Work authorized under a Task Order as substantially complete, he shall submit to the ENGINEER:
- I. A written notice that the Work or designated portion thereof is Substantially Complete.
2. A list of items to be completed or corrected.
- B. Within five (5) working days after receipt of such notice, the ENGINEER will make an inspection to determine the status of completion. The ENGINEER will prepare a punch list for each particular pay item, and final payment for any pay item with which any uncompleted or unsatisfactory work is associated shall be withheld by the OWNER, exclusive of statutory retainage, until the work is satisfactorily completed. Listed items shall be paid for upon expiration of the 45day lien period. The ENGINEER'S opinion as to the status of completion shall be based on completion of the following as applicable:
- I. Excavation, backfill and compaction, ditching, shaping, grading, etc. as indicated, and all required tests for all pipelines and other subterranean installations.
2. Installation or restoration of pavements including required tests for subbase, base and pavement materials. Pavements shall not be individually considered and shall be considered only with other portions of the Work requiring the installation or restoration of pavement.
3. Top soiling, final grading, fertilizing, seeding, sodding, or landscaping, watering to establish the required ground cover of vegetative growth, etc.
4. Release of all permits whether or not the permit was acquired by the CONTRACTOR.
- C. Should the ENGINEER determine that the Work is not substantially complete.

1. The ENGINEER will promptly notify the CONTRACTOR in writing, giving the reasons therefore in accordance with the General and Supplemental Conditions.

2. CONTRACTOR shall remedy the deficiencies in the Work, and send a second written notice of substantial completion to the ENGINEER.

3. The ENGINEER will re-inspect the Work.

D. When the ENGINEER finds that the Work is substantially complete, he will:

1. Prepare and deliver to OWNER a tentative Certificate of Substantial Completion with a tentative list of items to be completed or corrected before final payment in accordance with the General and Supplemental Conditions.

2. After consideration of any objections made by the OWNER as provided in the General and Supplemental Conditions of the Contract, and when the ENGINEER considers the Work substantially complete, the ENGINEER will execute and deliver to the OWNER and the CONTRACTOR a definite Certificate of Substantial Completion with a revised tentative list of items to be completed or corrected.

1.4 Final Inspection:

A. When CONTRACTOR considers the Work is complete, he shall submit written certification that:

1. Contract Documents have been reviewed.

2. Work has been inspected for compliance with Contract Documents.

3. Work has been completed in accordance with Contract Documents.

4. Equipment and systems have been tested in the presence of the ENGINEER and OWNER'S representative and are operational.

5. Work is completed and ready for final inspection.

B. The ENGINEER will make an inspection to verify the status of completion within five (5) working days after receipt of such certification.

C. Should the ENGINEER consider that the Work is incomplete or defective:

1. The ENGINEER will promptly notify the CONTRACTOR in writing, listing the incomplete or defective work.

2. CONTRACTOR shall take immediate steps to remedy the stated deficiencies, and send a second written certification to the ENGINEER that the Work is complete.

3. The ENGINEER will re-inspect the Work.

D. When the ENGINEER finds that the Work is acceptable under the Contract Documents, he shall request the CONTRACTOR to make closeout submittals.

1.5 Re-inspection Fees: Should the ENGINEER perform re-inspections due to failure of the Work to comply with the claims of status of completion made by the CONTRACTOR:

A. OWNER will compensate the ENGINEER for such additional services.

B. OWNER will deduct the amount of such compensation from the final payment to the CONTRACTOR.

1.6 Contractor's Closeout Submittals to Engineer:

A. Evidence of compliance with requirements of governing authorities.

1.7 Final Adjustment of Accounts (Invoices):

A. Submit a statement of accounting to the ENGINEER.

B. Statement shall reflect all adjustments to the dollar value of the Task Order.

1. The original value of the Task Order.

2. Additions and deductions resulting from:

a. Previous Task Order Change Orders.

b. Unit Prices.

c. Deductions for uncorrected Work.

d. Deductions for liquidated damages.

e. Deductions for re-inspection payments.

f. Other adjustments.

3. Total Task Order, as adjusted.

4. Previous payments.

5. Sum remaining due.

C. ENGINEER will prepare a Final Change Order reflecting approved adjustments to the Contract Sum which were not previously made by Change Orders.

1.8 Application For Final Payment: Upon receipt of approval of the final Change Order, the CONTRACTOR shall submit an application for Final Payment in accordance with procedures and requirements stated in the General Conditions.

1.9 Contract Clear Lien Certificate and Payment of Retainage:

A. Upon the OWNER'S acceptance of the work, the ENGINEER shall make filings with the Parish Clerk of Court and Ex-Officio Record of Mortgages Office as required by Louisiana State Public Contract Statute.

B. In accordance with the Louisiana State Public Contract Statute, the Clerk shall issue to the CONTRACTOR a Clear Lien and Privilege Certificate upon expiration of a period of not less than forty-five (45) days, provided no liens are recorded against the Project.

C. Upon receipt of the Clear Lien and Privilege Certificate, the CONTRACTOR shall submit an Application for Payment to the ENGINEER requesting the release of the Project retainage with the certificate attached as evidence of authority for the OWNER to pay the retainage.

D. The ENGINEER shall review the Application for Payment of the Project retainage and if in order shall transmit the application to the OWNER for payment.

E. In accordance with the General Conditions, the OWNER shall release, the project retainage and make payment to the CONTRACTOR the legal sum of the retainage for which the CONTRACTOR is entitled.

PART 2 - PRODUCTS (NOT USED)

PART 3 – EXECUTION (NOT USED)

PART 4 – MEASUREMENT AND PAYMENT

4.1 Method of Measurement and Payment: This work will not be measured for payment. The cost of work shall be included in other items to which it is subsidiary.

- END OF SECTION -



## SECTION 01710

### CLEANING

#### PART 1 - GENERAL

1.1 Scope: This Section includes requirements for cleaning each Work Task. Cleaning shall include daily "policing" of the work and surrounding areas to clear general debris, waste paper, loose asphalt, broken concrete, and other objectionable material along with the final cleanup of the project sites required for project acceptance.

1.2 Disposal Requirements: Conduct cleaning and disposal operations to comply with codes, ordinances, regulations and anti-pollution laws.

#### PART 2 - PRODUCTS (NOT USED)

#### PART 3 - EXECUTION

##### 3.1 General:

A. Execute daily cleaning to keep the Work, the site, and adjacent properties free from accumulations of waste materials, rubbish and wind-blown debris, resulting from construction operations.

B. Provide on-site containers for the collection of waste materials and debris rubbish. All waste materials including containers, food debris and other miscellaneous materials must be disposed of daily in on-site containers.

C. Remove waste materials, debris and rubbish from the site periodically and dispose of at legal disposal areas away from the site.

##### 3.2 Final Cleaning:

A. Employ skilled workmen for final cleaning.

B. Remove grease, mastic, adhesives, dust, dirt, stains, fingerprints, labels, and other foreign materials from sight-exposed interior and exterior surfaces.

C. Broom clean exterior paved surfaces; rake clean other surfaces of the grounds.

D. Prior to final completion, CONTRACTOR shall conduct an inspection of sight-exposed interior and exterior surfaces and all work areas to verify that the entire Work is clean.

PART4-MEASUREMENTANDPAYMENT

4.1 Measurement and Payment: Work under this Section will not be measured for payment. The cost of this work shall be included in other items to which it is subsidiary.

-ENDOFSECTION-

ASCENSION PARISH COUNCIL

ASPHALT CONCRETE

RECONSTRUCTION & OVERLAY IMPROVEMENTS (INDEFINITE  
DELIVERY/INDEFINITE QUANTITY CONTRACT) - 2023

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DIVISION 02 – SITE WORK

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## SECTION 02202

### REMOVAL OF STRUCTURES AND OBSTRUCTIONS PART 1 -

#### GENERAL

1.1 Scope: This Section covers the work required to remove those existing structures and other obstructions not designated or permitted to remain. Existing structures and obstructions to be removed, demolished or partially demolished include, but are not limited to paved surfaces including streets, roadways, driveways, sidewalks, curbs, and gutters, windfall, shrubs, headwalls, debris and debris piles, and all obstruction in the line of construction and or all items that deter or prevent the construction of the project as intended by the OWNER and including trees, shrubs, plants, etc. within OWNER's right-of-way which are directed by the OWNER to be removed.

1.2 Reference Standard: Work shall conform to the following Section of the State of Louisiana, Department of Transportation and Development, "Louisiana Standard Specifications for Roads and Bridges", 2006 Edition, except as may be modified herein:

#### Section 202 - Removing or Relocating Structures and Obstructions

(a) Subsection 202.07, Measurement and Subsection 202 .08, Payment are deleted.

#### PART 2 - PRODUCTS (NOT USED)

#### PART 3 - EXECUTION

3.1 General: The CONTRACTOR shall remove and dispose of all structures and obstructions designated for demolition, etc. that would interfere with construction or are required to permit construction as designed. It shall include backfilling resulting trenches, holes, pits, etc. Debris or excess material shall be disposed of off the project site.

3.2 Material Difference In Conditions: If structures or obstructions are encountered which differ materially from those ordinarily encountered, said conditions shall be immediately reported to the ENGINEER and the scope of work determined and appropriate costs negotiated for a change order.

#### PART 4 - MEASUREMENT AND PAYMENT

4.1 Measurement: Removal of existing concrete pavement of the thicknesses stated in each pay item satisfactorily completed and accepted as specified, as shown on the Drawings or as directed, will be measured by the square yard of surface actually broken out, removed, hauled off and legally disposed of. Removal of concrete curbs or curbs and gutters will be included in the square yard measurement.

4.2 Payment: Removal of existing concrete pavement including curbs and/or gutters measured as provided above, will be paid at the Contract unit price per square yard of the thickness specified, which price and payment shall constitute full compensation for furnishing all materials, equipment, tools, labor, hauling, traffic control, signs, barricades, safety items and incidentals necessary to complete this item in accordance with the Drawings and Specifications.

4.3 Pay Item: Payment will be made under Removal of Structures and Obstructions (Pavement Removal) ( Thickness) (Including Curbs with Gutters) 02202 per Square Yard.

- END OF SECTION -

SECTION 02203 EXCAVATION AND EMBANKMENTPART 1 - GENERAL

1.1 Scope: This Section covers the work required for excavations and embankment and backfill related to concrete panel repairs, concrete pavements and appurtenances for the construction of this project. It covers general, drainage and muck excavation. Also classification of soils that may be used to fill mucked ditches, stump holes and holes left from removal of structures and obstructions. It identifies the methods to be used for classifying soils which are referred to for other uses in other Sections of the specifications.

1.2 Referenced Standard: Work shall conform to the following Section of the State of Louisiana, Department of Transportation and Development, "Louisiana Standard Specifications for Roads and Bridges", 2006 Edition, except as may be modified herein:

Section 203 - Excavation and Embankment

(a) Subsections pertaining to Measurement and Payment are deleted.

1.3 Applicable Publications: The publications listed below form a part of this Specification to the extent referenced. The publication may be referred to in the text by basic designation only:

American Society for Testing and Materials (ASTM)

D698 Test Method for Laboratory Compaction Characteristics of Soil  
Using Standard Effort

D2487 Classification of Soils for Engineering Purposes (Unified Soil  
Classification System)

PART 2 -PRODUCTS

2.1 Embankment and Backfill Material:

A. Non Paved Areas: Embankment and backfill materials for non-paved areas shall be "Useable Soils" as defined in Paragraph 203.06(a) of the Referenced Standard.

B. Paved Area: Embankment and backfill materials for paved areas or areas to be paved shall be "Selected Soils" as defined in Paragraph 203.06(b) of the referenced standard.

## PART 3 - EXECUTION

3.1 General: Excavation, embankment and backfill work shall be in accordance with the reference Standard except as modified herein.

3.2 Stripping: Topsoil shall be removed to its full depth or to a minimum of six (6) inches where it occurs in areas to be filled or excavated and shall be stockpiled for use in finish grading. All precautions shall be taken to avoid contamination of topsoil by other excavated material and to prevent washing of topsoil into excavations, drainage or watercourses.

### 3.3 Filling and Embankment:

A. Fill shall be placed in horizontal layers not exceeding eight (8") inches in loose thickness, or six (6") inches when hand operated compactors are used. After placing, each layer shall be plowed, disked, or otherwise broken up, moistened or aerated as necessary, thoroughly mixed and compacted as specified using rubber-tired, and/or pneumatic rollers using strict moisture control.

B. Embankment shall not begin until construction below finish grade has been approved, underground utilities systems have been inspected, tested and approved, forms removed, and the excavation cleaned of trash and debris. Embankment shall not be placed in wet areas. Fill shall not be placed against foundation walls prior to seven (7) days after completion of the walls. As far as practicable, backfill shall be brought up evenly on each side of the wall and sloped to drain away from the wall.

C. The top six (6) inches of fill material in non-paved areas shall have a pH between five (5) and eight (8) which will support adequate vegetation.

3.4 Compaction: Compaction requirements as set forth in the referenced standard are hereby deleted. All embankment shall be compacted to not less than 95% Standard Proctor Density (ASTM D698) within two (2%) percent optimum moisture content.

### 3.5 Excavation Near Existing Structures:

A. Excavation near an existing structure shall not be allowed closer to the structure than the depth of the excavation below the bottom of the foundation without shoring the excavation with sheeting.

B. The CONTRACTOR'S attention is directed to the fact that storm drains and other underground utilities may exist within or immediately adjacent to the areas of proposed construction. Some of these utilities are indicated on the Drawings; however, no attempt has been made to show all of the services, and the completeness and accuracy of the information is supplied for the purpose of providing the CONTRACTOR with an indication as to the approximate locations of utilities at the work areas so that the he will be made aware of their presence.

C. All utility lines shall be located on the ground with pipe locator equipment well ahead of the work at all times. All such locations shall be plainly marked by coded paint symbols on pavement or by marked stakes in the ground. Such locations shall be established at least 50 feet in advance of all excavation. All such location work shall be provided by the CONTRACTOR, to the satisfaction of the OWNER.

D. As the excavation approaches pipe, conduits, or other underground structures, digging by conventional trenching machine methods shall be discontinued. Only manual methods of excavating shall be employed around buried utilities. The CONTRACTOR shall include manual excavation in the work to be done under this contract.

### 3.6 Protection of Existing Structures:

A. All existing pipes, poles, wires, fences, curbing, property line markers, and other structures which in the opinion of the OWNER must be preserved in place without being temporarily or permanently relocated, shall be carefully supported and protected from damage by the CONTRACTOR. In case of damage, the CONTRACTOR shall notify the property Owner so that the proper steps may be taken to repair any and all damage done. When the property Owners do not wish to make the repairs themselves, all damage shall be repaired by the CONTRACTOR; or, if not promptly done by him, the Owner may have the repairs made at the expense of the CONTRACTOR.

B. All utility services shall be supported by suitable means so that the services do not fail when tamping and settling occurs.

### 3.7 Sheeting and Bracing:

A. The CONTRACTOR shall furnish, place, and maintain such sheeting and bracing as may be required to support the sides of excavation, to prevent any movements which might in any way diminish the width of the excavation below that necessary for proper construction, and to protect adjacent structures from undermining or other damage.

B. Wherever possible, sheeting shall be driven ahead of the excavation to avoid loss of material from behind the sheeting. If it is necessary to excavate below the sheeting, care shall be taken to avoid trimming behind the face along which the sheeting shall be driven. Care shall be taken to prevent voids outside the sheeting; but, if voids are formed, they shall be filled immediately with sand and compacted.

C. The OWNER may direct that any timber used for sheeting and bracing be cut off at any specified elevation.

D. Sheeting and bracing not left in place shall be removed carefully so as not to endanger the work or other structures, utilities, or property. All voids left or caused by withdrawal of sheeting and bracing shall immediately be backfilled with sand and compacted by ramming with tools especially adapted to that purpose, or by other means as may be directed.



E. Sheeting and bracing that is ordered to be left in place by the OWNER shall be separately paid at a negotiated price and a change order issued for the work. Sheeting and bracing not left in place will not be measured and paid.

3.9 Drainage:

A. At all times during construction, the CONTRACTOR shall temporarily provide, place and maintain ample means and devices with which to remove promptly, and dispose properly of, all water entering trenches and other excavations, or water that may flow along or across the site of the work. Excavations shall be kept dry until the structures, pipes and appurtenances to be built therein have been completed, to such extent that they will not be damaged. At that time, the CONTRACTOR may remove such temporary means and devices.

B. All water pumped or drained from the work shall be disposed of in a manner satisfactory to the OWNER, without undue interference with other work or damage to pavements, other surfaces, or property.

3.10 Grading:

A. Grading of filled and unfilled areas shall be to the lines and grades indicated on the Drawings or as specified by the OWNER. Grading shall be performed in conjunction with all the necessary clearing, grubbing, stripping, filling and compacting operations to the satisfaction of the OWNER. Grading shall be performed to such lines and grades as may be necessary to allow for the addition of loam, if required, to the proposed finished grade.

B. Grading shall be done by bulldozer or other approved means. Areas adjacent to structures and other areas inaccessible to heavy grading equipment shall be graded by manual methods.

C. Final grading shall be performed in such manner as to provide proper drainage from the project site. Finished grades shall be pitched to drain away from structures completed under this contract as indicated on the Drawings or as directed by the OWNER. In no case shall drainage from the project site be so alert or controlled as to result in damage, or the potential for damage, to adjacent property or to any portion of the work executed under this contract from erosion or flooding.

3.11 Finishing: The surface of all excavations, fills, embankments, and raw subgrades shall be finished to a smooth and compact surface in accordance with the lines, grades, and cross sections or elevations shown. The degree of finish for all graded areas shall be within 0.1 foot of the grade and elevations indicated. Ditches shall be finished in a manner that will result in effective drainage. The surface of areas to be seeding shall be furnished to a smoothness suitable for the application.

3.12 Protection: Settlement or washing that occurs in graded, top soiled, or embankment areas prior to acceptance of the work shall be repaired and grades reestablished to the required elevations and slopes.

## PART 4 - MEASUREMENT AND PAYMENT

4.1 Measurement: Removal of existing pavement will be measured under Section 02202 – Removal of Structures and Obstructions. Grading and reshaping of subgrade will not be measured for payment. Compacted Fill Material satisfactorily installed and accepted as specified, as shown on the Drawings or as directed, will be measured by the cubic yard in approved hauling vehicles as the point of delivery.

4.2 Payment: Compacted Fill Material in place and accepted, measured as provided above, will be paid at the Contract unit price which price and payment shall constitute full compensation for furnishing all materials, equipment, tools, labor, hauling, safety items, and incidentals necessary to complete this item in accordance with the Drawing and Specifications.

4.3 Pay Item(s):

Compacted Fill Material ("Selected Soils") (Vehicular Measurement) (Paved Areas of Where Directed by Owner) 02203, per Cubic Yard.

Compacted Fill Material ("Usable Soils") (Vehicular Measurement) (Non-Paved Areas) (To Supplement Native Materials or to Replace Native Materials Where Deemed Unusable by OWNER or Where Directed by OWNER) 02203, per Cubic Yard.

- END OF SECTION -



## SECTION 02204A

### SELECT FILL FOR SHOULDERS AND DRESSING AROUND DRIVEWAYS

#### PART 1 - GENERAL

1.1 Scope: This work consists of furnishing and placing select fill material to build up low shoulders and to dress around driveways to tie into the grades of the new roadway in conformity with the lines, grades, thickness and typical cross sections shown on the Drawings or established by the ENGINEER.

1.2 Referenced Standard: Work shall conform to the following Section of the State of Louisiana, Department of Transportation and Development, "Louisiana Standard Specifications for Roads and Bridges", 2006 Edition, except as may be modified herein:

#### Section 203 - Excavation and Embankment

(a) Subsections pertaining to Measurement and Payment are deleted.

1.3 Applicable Publications: The publications listed below form a part of this Specification to the extent referenced. The publication may be referred to in the text by basic designation only:

#### American Society for Testing and Materials (ASTM)

D698 Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort

D2487 Classification of Soils for Engineering Purposes (Unified Soil Classification System)

#### PART 2 - PRODUCTS

2.1 Embankment Material: (Refer to Paragraph 2.1, Section 02203 - Excavation and Embankment).

#### PART 3 - EXECUTION

3.1 General: Embankment and fill work shall be in accordance with the reference Standard except as modified herein.

3.2 Filling and Embankment: Fill shall be placed in horizontal layers not exceeding eight (8") inches in loose thickness, or six (6") inches when hand operated compactors are used

3.3 Compaction: The selected soils shall be compacted to the satisfaction of the ENGINEER.

3.4 Grading:

A. Grading of filled and unfilled areas shall be to the lines and grades indicated on the Drawings or as specified by the OWNER. Grading shall be performed to such lines and grades as may be necessary to allow for the addition of loam, if required, to the proposed finished grade.

B. Grading shall be done by mechanical equipment which will not damage the pavement or other approved means. Areas adjacent to structures and other areas inaccessible to heavy grading equipment shall be graded by manual methods.

C. Final grading shall be performed in such manner as to provide proper drainage from the project site. Finished grades shall be pitched to drain away from structures completed under this contract as indicated on the Drawings or as directed by the OWNER. In no case shall drainage from the project site be so alert or controlled as to result in damage, or the potential for damage, to adjacent property or to any portion of the work executed under this contract from erosion or flooding.

3.6 Finishing: The surface of all fills and embankments shall be finished to a smooth and compact surface in accordance with the lines, grades, and cross sections or elevations shown. Ditches shall be finished in a manner that will result in effective drainage. The surface of areas to be seeding shall be furnished to a smoothness suitable for the application.

3.7 Protection: Settlement or washing that occurs in graded, top soiled, or embankment areas prior to acceptance of the work shall be repaired and grades reestablished to the required elevations and slopes

#### PART 4 - MEASUREMENT AND PAYMENT:

4.1 Measurement: Quantities of selected soils measured for payment will be measured by the cubic yard as specified in the Bid Form and adjustments thereto. Quantities will be measured by the cubic yard in approved hauling vehicles at the point of delivery. Materials delivered by volume will be measured by the cubic yard (vehicular measurement) to determine the final pay volume.

4.2 Payment: Selected soils, measured as provided above, will be paid at the Contract unit price per cubic yard (vehicular measurement) which price and payment shall constitute full compensation for furnishing all materials, excavation, equipment, tools, labor, hauling, traffic control, signs, barricades, safety items and incidentals necessary to complete this item in accordance with the Drawings and Specifications.

4.3 Pay Item: Select Fill for Shoulders and Dressing Around Driveways (Vehicular Measurement) 02204A, per Cubic Yard.

- END OF SECTION -



## SECTION 02220

### EXCAVATION, BACKFILL AND COMPACTION FOR DRAINAGE CONDUITS

#### PART 1 - GENERAL

1.1 Scope: This Section covers the work required for all excavation, backfill and compaction related to the installation of drain pipe and utilities. Other excavation and embankment is covered under Section 02203 - Excavation and Embankment.

1.2 Protection of Structures: Excavation, dewatering, sheeting, and bracing shall be carried out in such a manner as to eliminate any possibility of undermining or disturbing the foundations of any existing structure or any work previously completed under this contract.

1.3 Care and Restoration of Property:

A. Excavating machinery, cranes, and all other heavy equipment, shall be operated with care to prevent damage to trees. Where required, trees within or adjacent to the work site shall be braced by suitable means at the OWNER'S direction. Only those trees which are in direct physical interference with the work shall be removed unless otherwise noted.

B. Branches, limbs, trunks, and roots shall not be cut except by permission of the OWNER. All cutting shall be smoothly and neatly done without splitting or crushing. In case of cutting or unavoidable damage to branches, limbs and trunks of trees, the cut or damaged portions shall be neatly trimmed and covered with an application of grafting wax or tree healing paint as directed.

C. Cultivated hedges, shrubs, and plants which might be injured by the CONTRACTOR'S operations shall be protected by suitable means or shall be dug up and temporarily replanted and maintained. After the construction operations have been substantially completed, they shall be replanted in their original positions and cared for until growth is reestablished. If cultivated hedges, shrubs, and plants are injured to such a degree as to affect their growth or diminish their beauty or usefulness, they shall be replaced by items of kind and quality at least equal to the kind and quality existing at the start of the work. Where cultivated hedges, shrubs and plants in physical interference with the work exist and encroach upon highway right-of-way, they shall be replanted inside the property line of their respective OWNER. If said OWNER desires, he may replant such cultivated hedges, shrubs and plants at other areas within his property after removal by the CONTRACTOR.

D. On paved surfaces, the CONTRACTOR shall not use or operate tractors, bulldozers, or other power operated equipment that the treads or heels of which are so shaped as to cut or otherwise damage such surfaces.



E. All lawns, paved surfaces, roadways, and structures which have been damaged by the CONTRACTOR'S operations shall be restored to a condition at least equal to that in which they were found immediately prior to the beginning of operations.

F. The restoration of existing property or structures shall be done as promptly as practicable and shall not be left until the end of the construction period.

1.4 Reference Standard: Work shall conform to the following Section of the State of Louisiana, Department of Transportation and Development, "Louisiana Standard Specifications for Roads and Bridges", 2000 Edition, except as may be modified herein:

Section 203 - Excavation and Embankment Section 701 - Culverts and Storm Drains

(a) Subsections pertaining to Measurement and Payment are deleted.

1.5 Applicable Publications: The publications listed below form a part of this Specification to the extent referenced. The publication may be referred to in the text by basic designation only:

American Society for Testing and Materials

D698 Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort

D2487 Classification of Soils for Engineering Purposes (Unified Soil Classification System)

## PART 2 - PRODUCTS

2.1 Backfill Materials: (Refer to paragraph 2.1, Section 02203 - Excavation and Embankment.)

## PART 3 - EXECUTION

3.1 General Preparation:

A. The CONTRACTOR shall make excavations in such a manner and to such a width as will give suitable room for building the structures or laying adjoining pipe; shall furnish and place all sheeting, bracing and supports; shall do all dewatering pumping, and draining; and shall render the bottom of the excavation firm and dry and in all respects acceptable. Bedding Material shall be placed in accordance with Louisiana Standard Specifications for Roads Bridges, 2006 Edition, and the BM-01 Standard Details.

B. In no case shall the earth be plowed, scraped, or dug by machinery so near to the finished grade at the bottom of the excavation as to result in disturbance of material below said grade. The last of the material to be excavated shall be removed with pick and shovel just before placing pipe, masonry, or other structures. All loose materials shall be removed from the bottom of the excavation so that the bottom shall be in an undisturbed condition.

3.2 Separation of Surface Materials:

A. From areas within which excavations are made, loam and topsoil shall be carefully removed and separately stored to be used again as directed; or, if the CONTRACTOR prefers not to separate surface materials, he shall furnish, without additional compensation, clean loam and topsoil at least equal in quantity and quality to that excavated. When excavations are made in paved surfaces the pavement shall be removed so as to provide a clean uniform edge with a minimum disturbance of remaining pavement.

B. If pavement is removed in large amount or pieces, it shall not be mixed with other excavated material, but shall be disposed of away from the work site before the remainder of the excavation is made.

3.3 Sheeting and Bracing: Refer to Paragraph 3.7 Section 02203 - Excavation and Embankment.

3.4 Drainage: Refer to Paragraph 3.9 Section 02203 - Excavation and Embankment.

3.5 Excess Excavation:

A. If, in the opinion of the OWNER, the material at or below the depth to which excavation for structures and pipes would normally be carried is unsuitable for foundation, it shall be removed to such widths and depths as directed by the OWNER and shall be replaced with suitable material.

B. Where the bottom of the excavation shall, by error of the CONTRACTOR, have been taken to a depth greater than the depth specified, shown on the Drawings, or directed by the OWNER, said condition shall be corrected by refilling to the proper grade with screened gravel, crushed stone or shell, or the design shall be altered in a fashion acceptable to the OWNER to compensate for said error.

C. If, through failure or neglect of the CONTRACTOR to conduct the excavation work in the proper manner, the surface of the subgrade is in an unsuitable condition for proceeding with construction, the CONTRACTOR shall, at his own expense, remove the unsuitable material and replace it with suitable material, compacted to meet with the approval of the OWNER before any work is placed thereon. Failure of the CONTRACTOR to control surface or ground waters adequately, premature excavation at the work site, or other manifestations of the CONTRACTOR'S neglect or improper conduct of work, as determined by the OWNER, shall be grounds for requiring removal and replacement of unsuitable subgrade.

3.6 Trench Excavation in Fill: Before laying pipe in areas of fill, the following procedure shall be required:

A. Fill material shall be placed and properly compacted to final grade or to three (3') feet above the top elevation of the pipe, whichever is less. Under certain circumstances the CONTRACTOR may request modification of this requirement. Any modification must be detailed in writing as approved by the OWNER.

B. Particular care shall be taken to ensure maximum consolidation of material over the pipe location.

C. The pipe trench shall then be excavated in the prescribed manner as though in undisturbed soil.

3.7 Miscellaneous Excavation: If the OWNER requires excavation for work not indicated on the Drawings or in the Specifications, the CONTRACTOR shall make such additional excavation in accordance with the Specifications for such work. The CONTRACTOR shall be issued a change order for extra work.

3.8 Excavation Near Existing Structures: Refer to Paragraph 3.5, Section 02203 - Excavation and Embankment.

3.9 Protection of Existing Structures: Refer to paragraph 3.6 Section 02203 - Excavation and Embankment.

3.10 Backfilling and Compaction - General:

A. Backfilling shall be done as promptly as is consistent with non-injury to the work but no backfilling shall be done without the OWNER'S express permission if he has requested to observe the installed work.

B. A bulldozer or other blade shall not be used in placing backfill; however, placement of backfill by mechanical equipment with various type buckets may be permitted at the OWNER'S approval.

C. Where the excavation is in a paved area, an area to be paved, under a paved vehicular traveled way, or the shoulder of a paved roadway, a suitable pavement base shall be provided.

D. Unless otherwise specified or directed by the OWNER, compaction of backfill in unpaved and paved areas shall be to 95% Standard Proctor (ASTM D 698/02487). All densities to be within  $\pm$  two (2%) percent of optimum moisture content.

3.11 Backfilling in Open Trench:

A. As soon as practicable after the pipe has been installed in accordance with the applicable technical specification and the pipe joints have been properly made, the backfilling shall begin, and shall continue without delay. If a screened gravel, shell, or concrete envelope is not used, the backfill material shall be placed simultaneously on both sides of the pipe, so that there will be no displacement of pipe alignment in strict conformance with manufacturer's recommendation. In placing the material, care should be taken not to strike the pipe.

B. The backfill at the sides of the pipe up to the top of the pipe shall be hand placed and thoroughly compacted using approved hand tampers.

C. The backfill up to a level of one (1') foot above the top of the pipe shall be placed in six (6") inch layers, leveled along the length and width of the trench and thoroughly compacted with approved hand tampers.

D. Care shall be taken in the use of mechanical tampers not to injure or move the pipe or to cause the pipe to be supported unevenly. Mechanical tampers shall not be used within one (1') foot of the top of the pipe.

E. The backfill in the remainder of the excavation above the tamped backfill, or above the top of the screened gravel or sand envelope, if used, shall be placed by appropriate machine methods. Tamping will not be required in earth surface areas not subject to vehicular traffic. In vehicular traffic areas including driveways and streets the backfill shall be placed in approximately twelve (12") inch layers and promptly compacted by mechanical tamping. Backfilling or tamping with trenching machines is prohibited.

F. No stone or rock fragment shall be placed into the trench nor shall large masses of backfilling material be dropped into the tamped layers of backfill until one foot of earth backfill has been placed over the top of the pipe.

G. Compaction by water jetting will not be permitted, unless specifically authorized by the OWNER.

H. Whatever method of compacting backfill is used, care shall be taken that stones and lumps shall not become nested and that all voids between stones shall be completely filled with specified backfill material.

I. No compacting shall be done when the material is too wet to be compacted properly; at such times the compacting work shall be suspended until the previously placed materials have dried out sufficiently to permit proper compacting, or such other precautions shall be taken as necessary to obtain proper compacting.

J. Backfilled trenches in traveled areas shall be thoroughly surface tamped with kinetic energy tamping machine approved by the OWNER.

### 3.12 Excavated Material:

A. Excavated material shall be placed so as to minimize the inconvenience to occupants traveling on streets and driveways or adjoining properties. Excavated material shall not be deposited on private property unless written consent of the OWNER or OWNER'S thereof has been filed with the OWNER.

B. It is expressly understood that no excavated materials shall be removed from the site of the work or disposed of by the CONTRACTOR except as directed or approved by the OWNER, or as noted below.

C. Suitable excavated material will be used as backfill, fill for embankments, or other parts of the work in accordance with the appropriate sections of the Specifications.

D. Surplus excavated material, if any, shall be disposed of by the CONTRACTOR in a legal and environmentally sound area.

E. Upon completion of the backfilling, the streets or property shall be cleaned, surplus material removed, and the surfaces restored to the condition existing before ground was broken. All materials left over in public highways shall become the property of the CONTRACTOR. If the CONTRACTOR fails to promptly remove such surplus material, the OWNER may have the same done, and charge the cost thereof as money paid to the CONTRACTOR.

F. Material excavated from private property shall be disposed of by the CONTRACTOR at his own expense. If the CONTRACTOR fails to remove such surplus material, the OWNER may have the same done, and charge the cost thereof as money paid to the CONTRACTOR.

#### PART 4 – MEASUREMENT AND PAYMENT

4.1 Trench Excavation and Backfill: Trench excavation and backfill, except for select borrow material, will not be measured for payment. The cost of this work shall be included in other items to which it is subsidiary.

4.2 Method and Measurement of Payment: This work will not be measured for payment. The cost of this work shall be included in other items to which it is subsidiary.

- END OF SECTION -

SECTION 02241

EROSION CONTROL AND SOIL STABILIZATION

PART 1 - GENERAL

1.1 Scope: This Section provides for the furnishing and placing of seed and fertilizer where shown on the Drawings or as directed by the ENGINEER. Generally, all areas disturbed due to construction shall be seeded and fertilized.

1.2 Referenced Standard: Conform to the following Sections of the State of Louisiana, Department of Transportation and Development, Standard Specifications for Roads and Bridges, 2006 Edition; except as modified herein:

- Section 717 - Seeding
- Section 718 - Fertilizer and Agricultural Lime

1.3 Submittals: Submittals shall be provided in accordance with Section 01340 - Shop Drawings, Samples and Project Data.

PART 2 - PRODUCTS

2.1 General: Materials related to erosion control and soil stabilization shall conform to the following subsections of the Referenced Standard:

A.	Seed	.....	1018.18
B.	Water	.....	714.02
C.	Fertilizer (8-8-8)	.....	1018.16

PART 3 - EXECUTION

3.1 General: The CONTRACTOR shall neatly dress and prepare area designated for erosion control work as specified by the Engineer. Seeding and fertilizer shall be installed in accordance with the Referenced Standard except as modified herein.

3.2 Application Rates: Seeding and fertilizer shall be applied at the maximum rates as specified in the Referenced Standard. Application shall not be limited to the initial application, but shall continue until all areas disturbed due to construction, and in particular, the street shoulders and recreation pad areas, are completely taken with live vegetative growth.

3.3 Water: Watering shall be in accordance with Section 714 of the referenced Standard.

#### PART 4 - MEASUREMENT AND PAYMENT

4.1 Method of Measurement: Grading and preparation of ground surface will not be measured for payment. Erosion Control and Soil Stabilization with seed and fertilizer satisfactorily completed and accepted as Specified, as shown on the Drawings or as Directed, shall be measured by the square yard. The unit for each shall include watering and care to establish a satisfactory stand of grass.

4.2 Payment: Erosion Control and Soil Stabilization by the use of seeding and fertilization, in place and accepted, measured as provided above, will be paid at the Contract unit price per square yard, which price and payment shall constitute full compensation for furnishing all materials, equipment, tools, labor, hauling, traffic control, signs, barricades, safety items and incidentals necessary to complete this item in accord with the Drawings and Specifications.

4.3 Pay Item: Payment will be made under Erosion Control and Soil Stabilization (Seeding and Fertilizing) 02241 per Square Yard.

- END OF SECTION -

## SECTION 02302 CLASS II BASE COURSE

### PART 1 - GENERAL

1.1 Scope: This work consists of furnishing and placing a base course on a prepared surface in conformity with the lines, grades, thicknesses and typical cross section shown on the Drawings or established by the ENGINEER.

1.2 Referenced Standard: Work shall conform to the following Section of the State of Louisiana, Department of Transportation and Development, "Louisiana Standard Specifications for Roads and Bridges", 2006 Edition, except as may be modified herein:

Section 302 - Class II Base Course

(a) Subsection 302.14, Measurement and Subsection 302.15, Payment are deleted.

### PART 2 - PRODUCTS

2.1 General: The allowable material for base course shall be "stone", Section 1003.03(b) of the referenced Standard.

### PART 3 - EXECUTION

3.1 General: All work related to this Section shall conform to applicable provisions of the referenced Standard except as amended herein.

3.2 Compaction: Compaction shall be in accordance with Paragraph 302.07(c) of the referenced Standard. Minimum compaction shall be 95% of Standard Proctor Density within two (2%) percent optimum moisture content.

### PART 4 - MEASUREMENT AND PAYMENT

4.1 Measurement: Quantities of Class II Base Course (Stone) for payment will be the design areas per square yard for each depth as specified in the Bid Form and adjustments thereto. Design quantities are based the horizontal dimensions and compacted thickness of the completed base course shown on the Drawings. Design quantities will be adjusted if the ENGINEER makes changes to adjust to field conditions, if plan errors are proven or if design changes are necessary.



4.2 Payment: Class II Base Course (Stone) measured as provided above, will be paid at the Contract unit price per square yard for each thickness depth which price and payment shall constitute full compensation for furnishing all materials, equipment, tools, labor, hauling, traffic control, signs, barricades, safety items and incidentals necessary to complete this item in accordance with the Drawings and Specifications.

4.3 Pay Item: Payment will be made under Class II Base Course (Stone) (8" Thick) 02302 per Square Yard.

- END OF SECTION -

## SECTION 02303A

### IN-PLACE CEMENT TREATED BASE COURSE

#### PART 1 - GENERAL

1.1 Scope: This Section includes all labor and equipment to perform all work required to scarify, pulverize, blend, shape and treat the roadbed material with Portland Cement to the width, depth, cross sections and tolerances established by the ENGINEER.

1.2 Referenced Standard: Conform to the following sections of the State of Louisiana, Department of Transportation and Development, "Standard Specification for Roads and Bridges"; 2006 Edition, except as modified herein:

Section 308 - In-Place Cement Treated Base Course  
Section 506 - Asphalt Curing Membrane  
Section 1002- Asphaltic Materials and Additives

(a) Subsections pertaining to Measurement and Payment are deleted.

1.3 Equipment: CONTRACTOR shall use a "in-place mixer" machine to perform the work contained in the applicable provisions of the referenced Standard. The in-place mixer shall be equipped with a spray bar which has the capability of applying water across the full width of the cut and shall be adjusted to prevent overlap of water distribution of adjacent paths. The use of a conventional "motor-patrol " with scarifying teeth and blade is not acceptable.

#### PART 2 - PRODUCTS

2.1 Portland Cement: Portland Cement shall be in accordance with Subsections 1001.01 and 1001.02 of the referenced standard.

2.2 Asphalt Curing Membrane: Asphalt for curing membrane shall be an emulsified asphalt or an emulsified petroleum resin (EPR-1) conforming to Section 1002 of the referenced standard.

2.3 Water: Water shall comply with Subsection 1018.01.

#### PART 3 - EXECUTION

3.1 Preparation of Base: In addition to the requirements of Paragraph 308.04 of the referenced standard, the CONTRACTOR shall take particular care to ensure that the scarified and pulverized material is thoroughly blended from edge of base to edge of base to ensure that acceptable material shall be incorporated into the outer limits of the base course of the pavement. Application of the curing membrane and the placing and compacting of the specified asphaltic concrete surface shall immediately follow.

3.2 Cement Application: Cement shall be applied at a rate of 2%, 5%, 7%, or 9% by volume as directed by the project engineer.

3.3 Thickness: The cement shall be uniformly incorporated into the base course. The completed thickness of the in-place cement treated base course shall be 14” or as directed by the Engineer

3.4 Compaction: Road base shall be compacted least 95 percent of maximum dry weight density as determined in accordance with DOTD TR 401 and TR 418.

PART 4 - MEASUREMENT AND PAYMENT:

4.1 Measurement: In-place cement treated base course, satisfactorily completed and accepted as specified, as shown on the Drawings or as directed, will be measured by the square yard of surface actually completed, shaped and compacted at the average thickness specified.

4.2 Payment: In-place cement treated base course measured as provided above, will be paid at the Contract unit price per square yard, adjusted as specified in section 308.11 of the Referenced Standard, which price and payment shall constitute full compensation for furnishing all materials, equipment, tools, labor, hauling, traffic control, signs, barricades, safety items and incidentals necessary to complete this item in accordance with the Drawings and Specifications. Payment shall include furnishing all required water, Portland Cement and asphaltic curing membrane and performing necessary base preparation.

4.3 Pay Items: Payment will be made under:

In-Place Cement Treated Base Course (Includes 2% Cement By Volume) (14" Thick) 02303A per square yard.

In-Place Cement Treated Base Course (Includes 5% Cement By Volume) (14" Thick) 02303A per square yard.

In-Place Cement Treated Base Course (Includes 7% Cement By Volume) (14" Thick) 02303A per square yard.

In-Place Cement Treated Base Course (Includes 9% Cement By Volume) (14" Thick) 02303A per square yard.

- END OF SECTION -

## SECTION 02304

### LIME TREATMENT

#### PART 1 - GENERAL

1.1 Scope: This Section covers constructing a course of a mixture of lime, soil and water in conformity with the lines, grades, thickness, section and type indicated on the Drawings for the purpose of reducing the P.I. of the existing clay soil to 15 or less for construction of the Base Course.

1.2 Referenced Standard: Work shall conform to the following Section of the State of Louisiana, Department of Transportation and Development, "Louisiana Standard Specifications for Roads and Bridges", 2006 Edition, except as may be modified herein:

#### Section 304 - Lime Treatment

(a) Subsection 304.12, Measurement and Subsection 304.13, Payment are hereby deleted.

1.3 Equipment: CONTRACTOR shall use a "in-place mixer/soil stabilizer" machine to perform the work contained in the applicable provisions of the referenced Standard. The in-place mixer/soil stabilizer shall be equipped with a spray bar which has the capability of applying water across the full width of the cut and shall be adjusted to prevent overlap of water distribution of adjacent paths. The use of only a conventional "motor-patrol " with scarifying teeth and blade is not acceptable.

#### PART 2 - PRODUCTS

2.1 Lime: Lime shall be in accordance with Section 1018.03 of the referenced standard.

#### PART 3 - EXECUTION

3.1 Preparation of Base: In addition to the requirements of Paragraph 304.05 of the referenced standard, the CONTRACTOR shall take particular care to ensure that the scarified and pulverized material is thoroughly blended from edge of base to edge of base to ensure that acceptable material shall be incorporated into the outer limits of the base course of the pavement. Application of primer and the placing and compacting of the specified asphaltic concrete surface shall immediately follow.

3.2 Lime Application: Lime shall be applied at a rate of 25 lbs. per square yard for 12" depth.

3.3 Thickness: The lime shall be uniformly incorporated into the top 12" of the base course.

3.4 Compaction: Road base shall be compacted least 95 percent of maximum dry weight density as determined in accordance with DOTD TR 401 and TR 418.

3.5 Lime Treatment shall be Type C in accordance with Section 304 of the referenced Standard.

#### PART 4 - MEASUREMENT AND PAYMENT

4.1 Lime Treatment (Type C):

4.2.1 Measurement: Quantities of Lime Treatment (Type C) for conditioning measured by the square yard for each rate and depth classification as specified in the Bid Form and adjustments thereto. Design quantities are based on the horizontal dimensions of the completed subbase shown on the Drawings. Design quantities will be adjusted if the ENGINEER makes changes to adjust to field conditions, or if design changes are necessary.

4.2.2 Payment: Lime Treatment (Type C) measured as provided above, will be paid at the Contract unit price per square yard for each rate and depth classification which price and payment shall constitute full compensation for furnishing all materials, including lime, equipment, tools, labor, hauling, traffic control, signs, barricades, safety items and incidentals necessary to complete this item in accordance with the Drawings and Specifications.

4.2.3 Pay Item: Payment will be made under Lime Treatment (Type C) (Includes 25 lbs Lime per Square Yard) (12" Thick) (Including Scarifying, Pulverizing and Conditioning Road Bed) 02304 per Square Yard.

- END OF SECTION -

## SECTION 02306

### SCARIFYING AND COMPACTING ROADBED

#### PART 1 - GENERAL

1.1 Scope: This Section includes all labor and equipment to perform all work required to mechanically scarify, pulverize, blend, shape and compact the existing road surface and base to the width, depth, cross sections and tolerances established by the ENGINEER.

1.2 Referenced Standard: Conform to the following sections of the State of Louisiana, Department of Transportation and Development, "Standard Specifications for Roads and Bridges," 2006 Edition, except as modified herein:

Section 306 - Scarifying and Compacting Roadbed Section 505 - Asphalt Prime Coat  
Section 1002 - Asphalt Materials and Additives

Delete all provisions concerning "Measurement and Payment" contained in the referenced Standard.

1.3 Equipment: CONTRACTOR shall use an "in-place mixer/soil stabilizer" machine to perform the work contained in the applicable provisions of the referenced Standard. The in-place mixer/soil stabilizer shall be equipped with a spray bar which has the capability of applying water across the full width of the cut and shall be adjusted to prevent overlap of water distribution of adjacent paths. The use of only a conventional "motor-patrol" with scarifying teeth and blade is not acceptable. Final grading with a motor patrol is required.

#### PART 2 - PRODUCTS

2.1 Asphalt Prime Coat: Asphalt for curing membrane shall be an emulsified asphalt or an emulsified petroleum resin (EPR-1) conforming to Section 1002 of the referenced standard.

#### PART 3 - EXECUTION:

3.1 Scarifying and Compacting Roadbed: Scarifying, pulverizing, blending, shaping and compacting the existing roadbed to form a subbase or base course will be required on certain streets as specified or as directed by the ENGINEER. The CONTRACTOR shall scarify, pulverize, blend, shape and compact for the full width of the street a minimum depth of twelve inches (12"), for the full length or as directed by the ENGINEER. The CONTRACTOR shall avoid damaging underground structures and services by adjusting the depth of scarification in the immediate areas of underground structures and services. The existing asphaltic surface material shall be incorporated into the new base course. Pulverization shall be accomplished using an approved in-place mixer/soil stabilizer. Base shall be wetted as necessary, compacted and graded in accordance with the referenced Standard. The completed roadbed shall have a

smooth, uniform, closely knit surface, free from ridges, waves, depressions or loose material. Application of primer and the placing and compacting of the specified asphaltic concrete surface shall follow immediately.

3.2 Compaction: Road base shall be compacted to at least 95 percent of maximum dry weight density as determined in accordance with DOTD TR 401 and TR 418.

#### PART 4 - MEASUREMENT AND PAYMENT:

4.1 Measurement and Payment: Scarifying, pulverizing and compacting roadbed, satisfactorily completed and accepted as specified, as shown on the Drawings, and as directed, will be measured by the Square Yard.

4.2 Payment: In-place cement treated base course measured as provided above, will be paid at the Contract unit price per square yard, adjusted as specified in section 308.11 of the Referenced Standard, which price and payment shall constitute full compensation for furnishing all materials, equipment, tools, labor, hauling, traffic control, signs, barricades, safety items and incidentals necessary to complete this item in accordance with the Drawings and Specifications. Payment shall include furnishing all required water, Portland Cement and asphaltic curing membrane and performing necessary base preparation.

4.3 Pay Items: Payment will be made under:

Pulverize, Reshape, and Recompact Existing Asphalt and Base, 02306, per Square Yard.

- END OF SECTION -

SECTION 02401

SAND-CLAY-GRAVEL AND AGGREGATE SURFACE COURSES FOR SHOULDERS

PART 1 - GENERAL

1.1 Scope: This Section covers the reconstruction of shoulders with sand-clay-gravel or the specified aggregate material after the street overlay is complete as shown on the Drawings and as directed by the ENGINEER.

1.2 Referenced Standard: Conform to the following sections of the State of Louisiana, Department of Transportation and Development, "Standard Specifications for Roads and Bridges", 2000 Edition, except as modified herein:

Section 401 - Aggregate Surface Course Section I 003 - Aggregates

Delete all provisions concerning "Measurement and Payment" contained in the referenced Standard.

1.3 Selection: OWNER shall select for each street or segment thereof whether sand-clay-gravel or crushed stone or reclaimed asphaltic concrete will be used for shoulder restoration.

PART 2 - PRODUCTS:

2.1 Sand-Clay-Gravel surface course material for shoulder restoration and dressing shall be untreated sand-clay-gravel and shall conform to the following subsection of the referenced Standard:

Sand-Clay-Gravel ..... 1003.04(b)

2.2 Crushed stone aggregate material where selected for shoulder restoration and dressing shall be "Dense Grade Aggregate" as provided by Luhr Brothers (318) 487 - 9263 or approved equal and shall conform to the following subsection of the referenced Standard:

Stone .....1003.04 (a)

2.3 Reclaimed asphaltic concrete shall be milled asphalt pavement and shall conform to the following subsection of the referenced Standard:

Reclaimed Asphaltic Pavement (RAP) ..... 1003.04 (d)



### PART 3 - EXECUTION:

3.1 Each street shall be thoroughly prepared and de-grassed by scraping or blading the shoulders and loose driveway material flush with or below the existing surface up to three (3') feet away from the edge of the roadway and sloped down away from the roadway.

3.2 After completion of the overlay procedure, including compaction and curing of the asphalt, a two (2) to four (4") inch thick sand, clay, gravel or crushed aggregate or reclaimed asphaltic shoulder (selection by OWNER) shall be constructed against the outer edge of the asphalt with the specified material extending out a width of up to three (3') feet from the edge of the asphalt. The material shall be compacted and shaped to slope down away from the roadway surface. Placing of material shall be in strict accordance with paragraph 401.05 of the referenced Standard.

3.3 After placement and compaction of the new shoulder material, the material that was bladed away from the original roadway shall be worked and shaped to transition from the new shoulder to adjacent areas without blocking drainage or creating ponding along the shoulders or roadway. Any excess materials or debris shall be picked up and satisfactorily disposed of by the CONTRACTOR. No material or debris of any nature resulting from the work will be allowed to remain in the ditches or drainage ways or on the shoulders.

### Part 4- MEASUREMENT AND PAYMENT:

#### 4.1 Stone Aggregate Surface Course For Shoulders:

A. Measurement: Grading, removal of existing shoulder material and reshaping of areas beyond the shoulder will not be measured for payment. Stone aggregate surface course ("D.G.A."Stone.) satisfactorily installed and accepted as specified, as shown on the Drawings or as directed, will be measured by the cubic yard in approved hauling vehicles at the point of delivery.

B. Payment: Stone aggregate surface course ("D.G.A."Stone) in place and accepted, measured as provided above, will be paid at the Contract unit price which price and payment shall constitute full compensation for furnishing all materials, equipment, tools, labor, hauling, safety items, and incidentals necessary to complete this item in accordance with the Drawings and Specifications.

C. Pay Item: Payment will be made under Stone Aggregate Surface Course for Shoulders (Vehicular Measurement) (DGA Crushed Stone) 02401 per C.Y.

#### 4.2 Untreated Sand - Clay - Gravel Surface Course For Shoulders:

A. Measurement: Grading, removal of existing shoulder material and reshaping of areas beyond the shoulder will not be measured for payment. Sand-Clay-Gravel surface course (untreated sand-clay-gravel) satisfactorily installed and accepted as specified, as shown on the Drawings or as directed, will be measured by the cubic yard in approved hauling vehicles at the point of delivery.

B. Payment: Sand-Clay-Gravel surface course for shoulders (Untreated Sand-Clay-Gravel) in place and accepted, measured as provided above, will be paid at the Contract unit price and payment shall constitute full compensation for furnishing all materials, equipment, tools, labor, hauling, safety items, and incidentals necessary to complete this item in accordance with the Drawings and Specifications.

C. Pay Item: Payment will be made under Untreated Sand-Clay-Gravel Aggregate Surface Course For Shoulders (Vehicular Measurement) 02401 per C.Y.

4.3 Reclaimed Asphaltic Pavement Aggregate Surface Course For Shoulders:

A. Measurement: Grading, removal of existing shoulder material and reshaping of areas beyond the shoulder will not be measured for payment. Reclaimed asphalt pavement aggregate surface course satisfactorily installed and accepted as specified, as shown on the Drawings or as directed, will be measured by the cubic yard in approved hauling vehicles at the point of delivery.

B. Payment: Reclaimed asphalt pavement aggregate surface course in place and accepted, measured as provided above, will be paid at the Contract unit price which price and payment shall constitute full compensation for furnishing all materials, equipment, tools, labor, hauling, safety items, and incidentals necessary to complete this item in accordance with the Drawings and Specifications.

C. Pay Item. Payment will be made under Reclaimed Asphalt Pavement Aggregate Surface Course for Shoulders (Vehicular Measurement) 02401 per C.Y.

- END OF SECTION-



## SECTION 02402

### BLADING AND RESHAPING EXISTING SHOULDERS

#### PART 1 - GENERAL

1.1 Scope: Furnish all labor, tools and equipment, and perform all operations required for Blading and Reshaping Existing Shoulders.

#### PART 2 - PRODUCTS (NOT USED) PART 3 - EXECUTION

3.1 Blading and shaping of existing shoulders shall be in a neat and safe manner as directed and so as not to damage the adjacent pavement. The blading and shaping of the shoulders shall be completed prior to the placement of the permanent striping of the roadway edge line.

#### PART 4 - MEASUREMENT AND PAYMENT

4.1 Measurement: The length of blading and shaping of the shoulders will be measured by the mile of individual roadway shoulder.

4.2 Payment: Blading and shaping of the shoulders measured as provided above, will be paid at the Contract unit price per mile which price and payment shall constitute full compensation for furnishing all equipment, tools, labor, safety items and incidentals necessary to complete this item in accordance with the Specifications.

4.3 Pay Item: Payment will be made under Blading and Reshaping Existing Aggregate Shoulders (02402) per Mile.

- END OF SECTION -



## SECTION 02501

### ASPHALT CONCRETE PAVING AND OVERLAY

#### PART 1 - GENERAL

1.1 Scope: This Section includes the furnishing of all labor, materials, and equipment to perform all operations necessary to construct asphaltic concrete surfaces including, roadways and roadway overlays, trails, and walkways, drives and parking areas to the lines, grades, thicknesses and tolerances as shown on the Drawings or as directed by the OWNER.

1.2 Referenced Standard: Conform to the following sections of the State of Louisiana, Department of Transportation and Development, "Standard Specifications for Roads and Bridges", 2006 Edition, except as modified herein:

Section 502 - Superpave Asphaltic Concrete Mixtures Section 503 - Asphaltic Concrete Equipment and Processes Section 504 - Asphalt Tack Coat.  
Section 505 - Asphalt Prime Coat.

Delete all provisions concerning "Measurement and Payment" contained in the referenced Standard.

1.3 Submittals: Submittals shall be provided in accordance with Section 01340 - Shop Drawings, Samples and Project Data. Submittals shall include the following:

- A. Product data sheets for asphaltic tack coat and prime coat.
- B. Certificates of delivery for asphaltic tack coat and prime coat.
- C. Mix design for asphaltic concrete.

#### PART 2 - PRODUCTS

2.1 Asphaltic Concrete: Asphaltic concrete for leveling and wearing course shall conform to Section 502 - "Superpave Asphaltic Concrete Mixtures" and referenced Sections and Subsections of the State of Louisiana, Department of Transportation and Development, "Standard Specification for Roads and Bridges", 2006 Edition, except as modified herein.

2.2 Mix Design: The asphaltic concrete mixture shall be a Superpave Level A in accordance with the Referenced Standard. Asphaltic cement shall be AC-30, polymer not required. No recycled portland cement concrete will be permitted.

2.3 Asphaltic Tack Coat: Asphaltic tack coat shall be Grade SS-1 conforming to Section 1002 of the referenced Standard.

2.4 Asphaltic Prime Coat: Asphaltic prime coat shall be in accordance with Section 505 of the referenced standard.

### PART 3 - EXECUTION

#### 3.1 General:

A. Streets shall be cleaned, tack coated and overlaid from edge-to-edge as shown on the Drawings or as determined in the field by the ENGINEER.

B. Some streets or portions of streets shall be cold-planed as shown on the Drawings or as determined in the field by the ENGINEER to remove old overlays, provide smooth transitions, to remove obstructions, and to remove bumps or high spots.

C. Where settlement or distortion of the old surface is excessive, the construction of leveling wedges will be required as directed by the ENGINEER.

D. In some cases, local repairs of pavement and base failures shall be made by removal of the failed areas to the appropriate depth with straight, square sides and edges and patching with limestone and asphalt as directed by the Engineer.

#### 3.2 Transitions:

A. Asphaltic concrete overlay shall be feathered out on driveways in such form as to insure a smooth transition and to assure drainage of the driveway and of the street and gutter. These areas shall be separately rolled with a two-ton roller.

B. Asphaltic concrete turn outs and flares at intersections and transitions shall be formed and feathered out so as not to impede drainage and to assure a smooth riding surface. These areas shall be separately rolled with a two-ton roller.

#### 3.3 Asphaltic Concrete (Overlays, Paved Drives, Turnouts, Leveling, Recreation Pads, Trails, Parking Areas and Walkways):

A. Asphaltic concrete for overlays, paved drives, turnouts, recreation pads, trails, parking areas, walkways, and leveling courses shall conform to Section 502 - "Superpave Asphaltic Concrete Mixtures" and referenced Sections and Subsections of the State of Louisiana, Department of Transportation and Development, "Standard Specification for Roads and Bridges", 2006 Edition, except as modified herein.

B. The asphaltic concrete wearing course shall have a nominal thickness of 1-1/2" or 2".

C. The asphaltic concrete job mix formula shall be that specified in Paragraph 2.1 of this section.

D. Maximum thickness of any pass with the paver shall be two inches (2"). Maximum thickness of a transition course, leveling course or leveling wedge of asphaltic concrete shall be two and one-half inches (2-1/2"). Overlays thicker than two inches (2") shall be made in multiple passes of a thickness equal to **one-half the thickness of the finished overlay**.

E. Subsection 502.08(b) "Hauling, Paving and Finishing" of the Standard Specifications is amended as follows: "A material transfer vehicle (MTV) shall not be required. The traveling stringline and automatic slope control method shall be used on mechanical pavers. **Pavers without automatic screed control shall not be used.**"

F. The application of asphaltic concrete overlay to drives simultaneous with the street overlay at that location will not be permitted. Asphaltic concrete overlay for drives shall be applied after the road overlay at that location is complete. The use of a two (2) ton roller is required for all pavement edge transitions, turnout apron transitions and driveway transitions, and other short irregular sections.

G. Subsection 502.11 - "Roadway Acceptance", of the Standard Specifications is amended as follows:

"Roadway density and surface tolerance requirements will not be applied for short irregular sections, such as drives, aprons, turnouts and leveling courses; however, mix shall be placed in such a manner as to provide a neat and uniform appearance and shall be compacted by methods satisfactory to the ENGINEER."

H. Payment will be made with per ton weight measurement (2,000 pounds) from printed weight tickets. Stamped printer tickets will be issued for each truck load of material delivered. That portion of material lost, wasted, rejected or applied contrary to these Specifications will not be measured for payment.

3.4 Leveling: Leveling of areas designated by the ENGINEER or ENGINEER'S representative shall be accomplished with asphaltic concrete.

A. Where the ENGINEER determines that a leveling course(s) or leveling wedges of asphaltic concrete is required to provide a proper surface for application of the wearing course, the CONTRACTOR shall make such application of leveling course or courses and wedges with the asphalt mix as specified in paragraph 2.1. Prior to placing asphalt for leveling, the surface shall be cleaned and treated with asphaltic tack coat in accordance with Section 504 of the referenced Standard, as applicable. Spreading, finishing and compaction of asphaltic concrete for leveling shall result in a smooth surface level with the edge of the existing pavement.

B. The maximum thickness of any leveling course shall be two and one-half inches (2-1/2"). Subsequent leveling courses shall not be placed upon prior leveling courses for a minimum period of 24 hours.



3.5 Asphaltic Concrete Equipment and Processes Standard Specification Amendments:

A. Subsection 503.01 - "Description" of the Standard Specifications is amended as follows:

"Conventional pavers without electronic screed and slope control devices will not be permitted."

B. Subsection 503.17 - "Compaction Equipment" of the Standard Specifications is amended as follows:

(d) "The use of a vibratory plate compactor, minimum 2000 lb exciter force, is required along curbs, around manholes and valve boxes and in all locations that cannot be satisfactorily compacted by rollers".

(e) "The use of a two-ton roller is required for all pavement edge transitions, turnout apron transitions and driveway transitions".

C. A strike off assembly or box extension shall not be used for paving within the traveled way, except when approved for short irregular sections or sections which are exceptions to the typical.

D. Subsection 203. 10 "Material Transfer Vehicle" of the standard specifications is hereby deleted.

3.6 Asphalt Tack Coat Standard Specification Amendments:

Subsections 504.06 and 505.06 - "Application" of the Standard Specifications is amended as follows:

The last sentence of this subsection is deleted and the following substituted:

"Tack coat and prime coat shall be applied in such manner as to cause the least inconvenience to traffic. For asphaltic concrete overlay course, the tack coat shall be applied on the same day as the mixture laydown. For asphaltic concrete paving courses on reconstructed base, the CONTRACTOR will be permitted to apply the primer coat one

(1) calendar day prior to the mixture laydown; however, if primer coat has been damaged by traffic pick-up or contamination by dirt, dust or mud, the surface shall be cleaned and re-primed prior to the mixture laydown."

3.7 High Spots: CONTRACTOR shall remove any obvious existing high spots or raised pavement areas as directed by ENGINEER to enhance overlay surface and reduce quantities of leveling prior to asphaltic concrete overlay operations and no direct payment will be made therefor.

3.8 Street Width: Where the existing street does not have curbs, the CONTRACTOR will layout the outer edges of the street with string line to take the average outer edge of the existing asphalt in each stretch of 300 feet to eliminate irregularities by extending the overlay beyond the existing pavement a few inches if necessary to make a long straight outer edge.

3.9 Shoulder Preparation: CONTRACTOR shall blade back existing grass, gravel and shoulder material to allow for a clean laying surface and no direct payment will be made therefore. Unsuitable material shall be separated from the bladed material. After placement of the asphaltic concrete and construction of the new shoulder, the laid back material, having been suitably separated, shall be neatly bladed back to the new edge. The materials shall be reshaped, and blended and bladed with several passes with a motor grader or box blade, until a suitable and neat appearance is obtained. See Section 02402 of these specifications.

#### PART 4 - MEASUREMENT AND PAYMENT

##### 4.1 Asphaltic Concrete Surfacing for Overlays, Leveling, Turnouts and Transitions:

A. Measurement: Cleaning, tack coat, primer coat, etc. will not be measured for payment. Asphaltic Concrete Surfacing, Overlays, Leveling, Turnouts, and Transitions satisfactorily completed and accepted as specified, as shown on the Drawings or as Directed, will be measured by the ton (2000 pounds).

B. Payment: Asphaltic Concrete Surfacing, Overlays, Leveling, Turnouts and Transitions in place and accepted, measured as provided above, will be paid at the Contract unit price per ton, which price and payment shall constitute full compensation for furnishing all materials, equipment, tools, labor, hauling, safety items and incidentals necessary to complete this item in accordance with the Drawings and Specifications.

C. Pay Item: Payment will be made under Asphaltic Concrete (2" or Greater Total Thickness) (Surfacing, Overlays, Leveling, Turnouts, and Transitions) 02501 per Ton.

##### 4.2 Asphaltic Concrete Surfacing for Trails, Paths and Sidewalks and Parking Areas:

A. Measurement: Cleaning, tack coat, primer coat, etc. will not be measured for payment. Asphaltic Concrete Surfacing for Recreation Pads, Trails, Paths, Sidewalks and Parking Areas satisfactorily completed and accepted as specified, as shown on the Drawings or as Directed, will be measured by the ton (2000 pounds).

B. Payment: Asphaltic Concrete Surfacing for Recreation Pads, Trails, Paths, Sidewalks and Parking Areas in place and accepted, measured as provided above, will be paid at the Contract unit price per ton, which price and payment shall constitute full compensation for furnishing all materials, equipment, tools, labor, hauling, safety items and incidentals necessary to complete this item in accordance with the Drawings and Specifications.

C. Pay Item: Payment will be made under Asphaltic Concrete (1-1/2" Total Thickness) (Trails, Paths, Sidewalks, and Parking Areas Including Preparation and Tack or Prime Coat) 02501 per Ton.

- END OF SECTION -



SECTION 02545 AGGREGATE SURFACE COURSE

PART 1 - GENERAL

1.1 Scope: This Section includes the furnishing and installation of crushed stone or reclaimed asphaltic pavement (RAP) surfacing for trails, paths, driveways and parking areas in accordance with these Specifications and in conformity with the lines, grades and thicknesses shown on the Drawings or as directed by the OWNER.

1.2 Referenced Standard: Conform to the following Section of the State of Louisiana, Department of Transportation and Development, "Louisiana Standard Specifications for Roads and Bridges", 2006 Edition, except as modified herein:

Section 401 - Aggregate Surface Course Section 1003 - Aggregates

All references made therein to measurement and payment are hereby deleted.

PART 2 - PRODUCTS

2.1 Crushed Stone: Materials for stone aggregate surface course shall be stone conforming to Section 1003.01 and 1003.04(a) of the referenced Standard. Aggregate surface course shall be "Dense Grade Aggregate" as provided by Luhr Brothers (318) 487-9263 or approved equal.

2.2 Reclaimed Asphaltic Pavement (RAP): Materials for reclaimed asphaltic concrete surface course shall be milled asphalt pavement conforming to Section I003.04(d) of the referenced standard.

PART 3 - EXECUTION

3.1 General: All work related to this section shall conform to applicable provisions of the referenced specification. Construct all crushed stone surfacing to the lines, depth and grades as shown on the Drawings.

3.2 Subgrade Preparation: The subgrade shall be proof rolled with a sheepsfoot roller. Subgrade preparation consists of filling and grading as directed by the ENGINEER. The surface course shall be installed on a neat, smooth subgrade free of vegetation, mud and other objectionable material as identified by the ENGINEER.

3.3 Construction of Crushed Stone or Reclaimed Asphaltic Pavement: The aggregate surface shall be placed, shaped and compacted in accordance with Section 401- Aggregate Surface Course of the Referenced Standard which requires the use of a pneumatic tire or steel wheel roller. The surface shall be tight and smooth.

## PART 4 - MEASUREMENT AND PAYMENT

### 4.1 Crushed Stone Aggregate Surface Course:

A. Adjusted Vehicular Measurement: Grading, removal of existing shoulder material and reshaping of areas beyond the shoulder will not be measured for payment. Aggregate Surface Course (crushed stone) satisfactorily installed and accepted as specified, as shown on the Drawings or as directed, will be measured by the cubic yard in approved hauling vehicles at the point the delivery in accordance with Subsection 109.01. Materials delivered by volume will be measured by the cubic yard in hauling vehicles and divided by the factors in Table 401-1, to determine the pay volume.

B. Payment: Aggregate surface course (crushed stone) in place and accepted, measured as provided above, will be paid at the Contract unit price which price and payment shall constitute full compensation for furnishing all materials, equipment, tools, labor, hauling, safety items, and incidentals necessary to complete this item in accordance with the Drawings and Specifications.

C. Pay Item: Payment will be made under Aggregate Surface Course (D.G.A. Stone) (Adjusted Vehicular Measurement) 02545 per C.Y.

### 4.2 Reclaimed Asphaltic Pavement (RAP) Aggregate Surface Course:

A. Adjusted Vehicular Measurement: Grading, removal of existing shoulder material and reshaping of areas beyond the shoulder will not be measured for payment. Aggregate surface course (reclaimed asphaltic pavement) satisfactorily installed and accepted as specified, as shown on the Drawings or as directed, will be measured by the cubic yard in approved hauling vehicles at the point the delivery in accordance with Subsection 109.01. Materials delivered by volume will be measured by the cubic yard in hauling vehicles and divided by the factors in Table 401-1, to determine the pay volume.

B. Payment: Aggregate surface course (reclaimed asphaltic pavement) in place and accepted, measured as provided above, will be paid at the Contract unit price which price and payment shall constitute full compensation for furnishing all materials, equipment, tools, labor, hauling, safety items, and incidentals necessary to complete this item in accordance with the Drawings and Specifications.

C. Pay Item: Payment will be made under Aggregate Surface Course (reclaimed asphaltic pavement) (Adjusted Vehicular Measurement) 02545 per C.Y.

**Table 401-1**  
**Adjusted Vehicular Measurement (materials delivered by volume)**

MATERIAL	FACTOR
Stone	1.3
Reclaimed Asphaltic Pavement (RAP)	1.5

- END OF SECTION -



## SECTION 02612

### ASPHALT CONCRETE PAVEMENT WIDENING

#### PART 1 - GENERAL

1.1 Scope: The CONTRACTOR shall furnish all labor, materials, tools and equipment, and perform operation necessary to widen asphaltic concrete streets in accordance with these Specification and in conformity with the lines and grades as shown on the Drawings or established by the ENGINEER.

1.2 Submittals: Submit product data in accordance with provisions of Section 01340 -Shop Drawings, Samples And Project Data.

1.3 Work Not Listed: Removal and replacement of paving for the convenience of the CONTRACTOR will not be considered for payment.

1.4 Referenced Standard: Conform to the following sections of the State of Louisiana, Department of Transportation and Development, Standard Specifications for Roads and Bridges, 2006 Edition, except as modified herein:

Section 302 - Class II Base Course

Section 502 - Superpave Asphaltic Concrete Mixtures Section 503 - Asphaltic Concrete Equipment and Processes Section 504 - Asphalt Tack Coat

Section 505 - Asphalt Prime Coat

Section 510 - Asphaltic Concrete Pavement Patching, Widening and Joint Repair Section 1003 -  
Aggregates

#### PART 2 - PRODUCTS

2.1 Asphaltic Concrete Widening: The material used to widen the existing road shall be full depth asphaltic concrete, and shall conform to Section 510 - "Asphaltic Concrete Pavement Patching, Widening and Joint Repair" of the referenced standard.

2.2 Asphaltic Concrete: This material shall conform to Section 502 - "Superpave Asphaltic Concrete Mixtures" of the referenced standard.

2.3 Asphaltic Tack Coat: This material shall conform to Section 504 - "Asphalt Tack Coat" of the referenced standard.

2.4 Asphaltic Prime Coat: This material shall conform to Section 506 - "Asphalt Prime Coat" of the referenced standard.



### PART 3 - EXECUTION

3.1 Asphaltic Concrete Surfacing: The widening of existing asphaltic concrete streets, at a thickness of nine (9") inches shall conform to Section 510 - "Asphaltic Concrete Pavement Patching, Widening and Joint Repair" and Section 502 - "Superpave Asphaltic Concrete Mixtures" of the referenced standard. Contact surfaces of the existing road and base shall be cleaned and spayed with a uniform coat of asphaltic tack coat before asphaltic cement is placed against them. The surface of the embankment/soil to receive the widening shall be primed in accordance with Section 505 - "Asphalt Prime Coat" of the referenced standard.

3.2 Trimming and Tacking of Asphaltic Concrete Edges: Prior to the installation of the asphaltic concrete (hot mix), all adjacent or abutting wearing or base surfaces shall be trimmed to a straight line subject to approval of the ENGINEER. The trimmed edges shall be stable and unyielding. All edges shall be thoroughly broomed and coated with an approved asphalt tack coat before the finish coat is spread.

### PART 4 - MEASUREMENT AND PAYMENT

4.1 Measurement: Widening of the existing asphaltic concrete road includes all work, labor, material, tools equipment and incidentals required to complete the item as shown on the Drawings, as specified herein and or as directed by the ENGINEER, will be measured by the square yard.

4.2 Payment: Pavement widening will be paid by the square yard, accepted by the ENGINEER.

4.3 Pay Item: Asphaltic Concrete Pavement Widening (9"Thick) 02612, per S.Y.

- END OF SECTION -

SECTION 02701 CATCH BASIN RESTORATION

PART 1 - GENERAL

1.1 Scope: This Section covers repairs and restoration of catch basins.

1.2 Referenced Standard: Work shall conform to the following Section of the State of Louisiana, Department of Transportation and Development, "Louisiana Standard Specifications for Roads and Bridges", 2006 Edition, except as may be modified herein:

Section 701 - Culverts and Storm Drains

Section 702 - Manholes, Junction Boxes, Catch Basins and End Treatments

Section 901 - Portland Cement Concrete

All references therein to measurement or payment are hereby deleted.

PART 2 - PRODUCTS

2.1 General: Materials related to storm drainage catch basins shall conform to the following Sections or Subsections of the referenced Standard as specifically listed herein:

- (1) Reinforced Concrete Pipe .....1006.03
- (2) Geotextile Fabric and Geocomposite Systems .....1019
- (3) Masonry Units.....1004
- (4) Preformed Joint Fillers.....1005.01
- (5) Portland Cement Concrete .....901
- (6) Gasket Materials .....1006.06
- (7) Reinforcing Steel .....1009.01

2.2 Compressive Strength (Concrete) Catch Basin Aprons: Refer to Section 03300 - Cast-in-place Concrete.

PART 3 - EXECUTION

3.1 Catch Basins: Existing catch basins shall be restored by removing the existing frame and grate, cleaning and removing all dirt and debris from inside the catch basin, cleaning and resetting the existing frame and grate with cement grout, patching the top surface of the catch basin with cement grout to grade, and forming and pouring a concrete apron 1' - 6' wide on all four (4) sides at grade, and sloped so as to drain the street into the catch basin. Catch basins adjacent to curbs or sidewalks will require the apron on three (3) sides. Refer to Standard Details CB-01, CB-02, and CB-06

3.2 Backfill and Compaction: Repaired catch basins shall be backfilled with compacted suitable material.

## PART 4 - MEASUREMENT AND PAYMENT

### 4.1 Catch Basin Restoration

4.1.1 Method of Measurement: Catch Basin Restoration, satisfactorily completed and accepted as specified, as shown on the Drawings or as directed by the ENGINEER shall be measured by a count of the number of structures restored. The item shall include, but not be limited to, furnishing and installing complete all concrete, reinforcing steel, form work, foundation, grouting, cleaning, etc.

4.1.2 Payment: Catch Basin Restoration, complete and accepted as specified, measured as provided above, will be paid at the contract price per Each, which payment shall constitute full compensation for furnishing all supplies, equipment, tools, labor, excavation and backfilling, hauling, traffic control, signs, barricades, safety items and incidentals necessary to complete this item in accord with the Drawings and Specifications.

4.1.3 Pay Item: Payment will be made under Catch Basin Restoration (Including Remove and Reset Catch Basin Grate Inlet and Frame, Regrouting Frame and Including 1' - 6' Wide 6" Thick Reinforced Concrete Apron All Around or On Three (3) sides.) 02701 per Each.

- END OF SECTION -

SECTION 02701A

STORM DRAINAGE PIPE AND CATCH BASINS

PART 1 - GENERAL

1.1 **Scope:** This Section covers the installation of storm drainage pipe (reinforced concrete pipe (RCP) or bituminous coated corrugated steel storm drainage pipe (BCCSP) and concrete catch basins to be constructed on this project.

1.2 **Reference Standard:** Work shall conform to the following Section of the State of Louisiana, Department of Transportation and Development, "Louisiana Standard Specifications for Roads and Bridges", 2006 Edition, except as may be modified herein:

Section 701 - Culverts and Storm Drains

Section 702 - Manholes, Junction Boxes, Catch Basins and End Treatments Section 901 - Portland Cement Concrete

Section 1016 - Precast Reinforced Concrete Drainage Units

1.3 **Applicable Publications:** The publication listed below form a part of this Specification to the extent referenced. The publication may be referred to in the text by basic designation only:

American Society for Testing and Materials

A123 Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products

1.4 **Submittals:** Submittals consisting of product data sheets and manufacturer's certifications shall be provided in accordance with Section O 1340 - Shop Drawings, Samples and Project Data.

PART 2 - PRODUCTS

2.1 **General:** Materials related to storm drainage piping and catch basins shall conform to the following Sections or Subsections of the Reference Standard as specifically listed herein:

(1) Reinforced Concrete Pipe .....	1006.03
(2) Brick.....	1004.01
(3) Asphaltic Varnish .....	1008.03
(4) Manhole Frames, Grates and Covers.....	1018.04
(5) Portland Cement Concrete.....	901
(6) Reinforcing Steel .....	1009.01
(7) Bituminous Coated Corrugated Steel Pipe (***).....	1007.02
(8) Geotextile Fabric (Plastic Filter Cloth).....	1019
(9) Preformed Joint Filler .....	1005.01
(10) Gasket Material.....	1006.06
(11) Pipe Joints (BCCSP).....	1007.09

\*\*\* 12"-30" DIA. - 14 Gauge (0.079") and 48"-72" DIA. - 12 Gauge (0.109").

- 2.2 **Reinforced Concrete Pipe:** Reinforced concrete pipe shall conform to ASTM C76 Class III, Wall A, B, or C.
- 2.3 **Reinforced Concrete Pipe Arch:** Reinforced concrete pipe arch shall conform to ASTM C 506 Class A-III.
- 2.4 **RCP Pipe Joints:** Joints for reinforced concrete pipe shall be Type 3 in accordance with Section 1006.05 of the above referenced Standard.
- 2.5 **BCCSP Pipe:** BCCSP Pipe shall conform to Section 1007.02 of the above referenced Standard.
- 2.6 **BCCSP Pipe Joints:** Joints for bituminous coated corrugated steel pipe shall be a Type 1 joint with coupling bands with rubber gaskets.
- 2.7 **Bedding Material:** Refer to Section 02726 - Bedding Material.

### PART 3 - EXECUTION

- 3.1 **Storm Drainage Pipe:** Storm drainage pipe shall be installed in conformance with Section 701 of the Reference Standard and in accordance with Section . 02220 - Excavation, Backfill and Compaction for Trenches.
- 3.2 **Reinforced Concrete Pipe Joints:** Joints of reinforced concrete pipe shall be wrapped a minimum of eighteen (18") inches on each side of the joint with approved filter cloth.
- 3.3 **Bituminous Coated Corrugated Steel Pipe Joints:** Joints for bituminous coated corrugated steel pipe shall be coupling bands with rubber gaskets in accordance with section 1007.09 of the Reference Standard.
- 3.4 **Bedding Material:** Refer to Section 02726 - Bedding Material
- 3.5 **Backfill and Compaction:** Refer to Section 02220 - Excavation, Backfill and Compaction for Trenches.

### PART 4 – MEASUREMENT AND PAYMENT

#### 4.1 **Reinforced Concrete Pipe:**

A. **Measurement:** Reinforced concrete pipe, of the various types and sizes will be measured by the Linear Foot installed, with measurements being made from end to end of conduits, inner wall to inner wall of drainage structures, inner wall of drainage structure to end of conduit, or any combination thereof. The unit for each shall include all excavation, backfill, compaction, bedding material, disposal of excess or unsatisfactory material, providing and installing reinforced concrete pipe, etc. necessary to complete each unit.

B. Payment: Reinforced concrete pipe, measured as provided above, will be paid at the Contract unit price per Linear Foot, completed and accepted, which price and payment shall constitute full compensation for furnishing all materials, equipment, tools, labor, hauling, traffic control, signs, barricades, safety items and incidentals necessary to complete this item in accordance with the Drawings and Specifications, as specified herein, and/or as directed by the ENGINEER.

C. Pay Items: Payment will be made under: 12" RCP, (02701A), per Linear Foot. 15" RCP, (02701A), per Linear Foot. 18" RCP, (02701A), per Linear Foot. 24" RCP, (02701A), per Linear Foot. 30" RCP, (02701A), per Linear Foot. 36" RCP, (02701A), per Linear Foot. 48" RCP, (02701A), per Linear Foot. 15" RCPA, (02701A), per Linear Foot. 18" RCPA, (02701A), per Linear Foot. 24" RCPA, (02701A), per Linear Foot. 30" RCPA, (02701A), per Linear Foot. 36" RCPA, (02701A), per Linear Foot. 42" RCPA, (02701A), per Linear Foot.

#### 4.2 Bituminous Coated Corrugated Steel Pipe:

A. Measurement: Bituminous coated corrugated steel pipe, of the various types and sizes will be measured by the Linear Foot installed, with measurements being made from end to end of conduits, inner wall to inner wall of drainage structures, inner wall of drainage structure to end of conduit, or any combination thereof. The unit for each shall include all excavation, backfill, compaction, bedding material, disposal of excess or unsatisfactory material, providing and installing bituminous coated corrugated steel pipe, etc. necessary to complete each unit.

B. Payment: Bituminous coated corrugated steel pipe, measured as provided above, will be paid at the Contract unit price per Linear Foot, completed and accepted, which price and payment shall constitute full compensation for furnishing all materials, equipment, tools, labor, hauling, traffic control, signs, barricades, safety items and incidentals necessary to complete this item in accordance with the Drawings and Specifications, as specified herein, and/or as directed by the ENGINEER.

C. Pay Items: Payment will be made under:

24" Bituminous Coated Corrugated Steel Pipe, (02701A), per Linear Foot. 30" Bituminous Coated Corrugated Steel Pipe, (02701A), per Linear Foot. 36" Bituminous Coated Corrugated Steel Pipe, (02701A), per Linear Foot. 42" Bituminous Coated Corrugated Steel Pipe. (02701A), per Linear Foot.

- END OF SECTION -

## SECTION 02702

### ADJUSTING MANHOLE FRAMES AND VALVE BOXES

#### PART 1 - GENERAL

1.1 Scope: This Section includes the furnishing of all labor, materials (including new manhole frames and covers and valve boxes and covers), and equipment necessary for the adjustment of the grade, elevation and slope of new manhole frames and valve boxes to conform to the grade, elevation and slope of the new street surface.

1.2 Referenced Standard: Conform to the following sections of the State of Louisiana, Department of Transportation and Development, "Standard Specifications for Roads and Bridges", 2006 Edition, except as modified herein:

Section 702                                - Manholes, Junction Boxes, Catch Basins and End Treatments

Delete all provisions concerning "Measurement and Payment" contained in the referenced Standard.

#### PART 2 - PRODUCTS:

2.1 General: Materials shall be subject to the ENGINEER'S approval.

2.2 Manhole Frames and Covers: New manhole frames and covers shall be C-2358-WT frame as manufactured by Vulcan Foundry, Inc., Denham Springs, Louisiana. The cover of each manhole shall be flush with the top of the frame within 1/8".

2.3 Water Valve Boxes: New valve boxes shall be three (3) piece adjustable, five and one-quarter (5 1/4") inch shaft diameter, high grade screw-type cast iron valve boxes as manufactured by the Tyler Corporation of Tyler, Texas, Series 6850 or approved equal. The cast iron valve shall have a base large enough to fit completely over the valve bonnet and shall have the word "Water" embossed on the top side of its cover. If existing bases are satisfactory in the judgement of the OWNER'S representative, they may remain in place.

2.4 Concrete Pads: Concrete for squares around adjusted manholes and catch basins and valve frames shall contain "black " dye admixture as Specified, and shall be Class A-3,800 psi in accordance with Section 03300 - Cast-In-Place Concrete.

2.5 Bricks and Mortar: Bricks and mortar for adjusting manhole frames, covers and catch basins shall comply with the requirements of Section 702 of the Referenced Standard.

2.6 "Black" Dye Concrete Admixture: Admixture shall be Davis Coloring "black" dye concrete admixture as supplied by Texas Industries (TXI), or approved equal.



## PART 3 - EXECUTION:

3.1 General: The CONTRACTOR shall adjust the grade, elevation, and slope of existing manhole frames and valve boxes by installing new frames and covers and new valve boxes to conform to the grade, elevation and slope of the new pavement or overlay. Adjustment for overlays on existing pavement shall be made after installation of the overlay. Existing sewer manholes and water valve box settings that would be covered over or affected by the new overlay shall be adjusted to match the grade of the new pavement surface. Manholes and valve box settings will be adjusted using new frames and covers and valve boxes. The frames and covers and valve boxes shall be adjusted after the new overlay and shall be adjusted and the black concrete pad constructed so that there is no noticeable grade difference any direction when measured with straight edge.

### 3.2 Manholes:

A. The CONTRACTOR shall remove 5' foot square of pavement from around the frame, properly reconstruct the walls, and set new frames to the desired elevation, grade and slope. The CONTRACTOR shall be careful to ensure that new manhole frames confirm with the roadway elevation, grade and slope. Pavement cuts for adjustments in asphalt pavement shall be made by use of an air chisel or spade. Cuts in concrete pavement shall be made by sawcutting. All pavement cuts shall be straight, neat, vertical and square. A concrete pad shall be poured around the frame flush with the surface of the proposed pavement in accordance with the details shown in this Section. A "black" colored dye (admixture) shall be added to the concrete to produce a dry colored pavement equivalent to the color of the new asphalt overlay.

B. The CONTRACTOR shall be solely responsible for the accuracy of the adjustment to conform to the new overlay. If the frame is not constructed flush, at the same elevation, grade and slope with the new overlay surface, the CONTRACTOR shall cut out and remove a minimum 6' foot square of pavement and readjust to the proper elevation, grade and slope at no further payment. The work shall conform to the Drawings and to these Specifications.

### 3.3 Valve Boxes:

A. The CONTRACTOR shall remove 3' foot square of pavement from around the valve box frame and properly extend, or reset the valve box to the desired elevation, grade and slope. The CONTRACTOR shall be careful to ensure that new manhole frames confirm with the roadway elevation, grade and slope. Pavement cuts for valve box adjustments in asphalt pavement shall be made by use of an air chisel or spade. Cuts in concrete pavement or base shall be made by jack hammering. All pavement cuts shall be straight, neat, vertical and square. A concrete pad shall be poured around the valve box frame flush with the surface of the proposed pavement in accordance with the details shown in this Section. A "black" colored dye (admixture) shall be added to the concrete to produce a dry colored pavement equivalent to the color of the new asphalt overlay.

B. The CONTRACTOR shall be solely responsible for the accuracy of the valve box adjustment to conform to the new overlay. If the valve box frame is not flush at the same elevation, grade and slope with the new overlay surface, the CONTRACTOR shall cut out and remove a minimum 4' foot square of pavement and readjust the valve box to the proper elevation grade and slope at no further payment. The work shall conform to the Drawings and to these Specifications.

3.4 Barricades and Traffic Control: Contractor shall provide adequate markers, barricades and traffic control to alleviate the hazard to the public and to prevent damage to the work. Refer to Section 02713 Traffic Regulations of these Specifications.

#### PART 4 - MEASUREMENT AND PAYMENT:

##### 4.1 Adjusting Manhole Frame with New Frame and Lid:

A. Measurement: New manhole frames installed and satisfactorily adjusted to grade, elevation and slope and accepted as specified, as shown on the Drawings or as directed, will be measured by a count of the actual number completed.

B. Payment: New manhole frames installed, adjusted and accepted, measured as provided above, will be paid at the Contract unit price per each which price and payment shall constitute full compensation for furnishing all equipment, tools, labor, hauling and incidentals necessary to complete this item in accordance with the Drawings and Specifications.

C. Pay Item: Payment will be made under Adjusting Manhole Frame with New Frame and Lid (Including Sawcutting) 02702 per Each.

##### 4.2 Adjusting Valve Boxes:

A. Measurement: New valve boxes satisfactorily adjusted to grade, elevation and slope, and accepted as specified, as shown on the Drawings or as directed, will be measured by a count of the actual number completed.

B. Payment: New valve boxes installed, adjusted and accepted, measured as provided above, will be paid at the Contract unit price per each, which price and payment shall constitute full compensation for furnishing all materials, equipment, tools, labor, hauling, traffic control, safety items and incidentals necessary to complete this item in accordance with the Drawings and Specifications.

C. Pay Item: Payment will be made under Adjust Water Valve Box with New Valve Box (Including Sawcutting) 02702 per Each.

- END OF SECTION -

## SECTION 02702A

### ADJUSTING MANHOLE FRAMES WITH ADJUSTMENT RINGS

#### PART 1 - GENERAL

1.1. Scope: This Section includes the furnishing of all labor, materials, and equipment necessary for the adjustment of the grade, elevation and slope of existing manhole frames with adjustment rings to conform to the grade, elevation and slope of the new street overlay.

1.2 Referenced Standard: Conform to the following sections of the State of Louisiana, Department of Transportation and Development, "Standard Specifications for Roads and Bridges", 2006 Edition, except as modified herein:

Section 702 - Manholes, Junction Boxes, Catch Basins and End Treatments.

(a) Subsections pertaining to Measurement and Payment are deleted.

#### PART 2 - PRODUCTS :

2.1 General: Materials shall be subject to the ENGINEER'S approval.

2.2 Riser Rings: Riser rings used to adjust the top of the manhole to final grade shall be precast concrete rings furnished the manhole manufacturer or cast iron rings approved by the ENGINEER.

A. Precast Concrete: New precast concrete riser rings, free from cracks, voids and other defects shall conform to ASTM C478. Contractor shall use precast concrete riser rings of a nominal thickness of not less than four (4) inches and not more than six (6) inches for reconstruction and/or adjustment of the manhole frame and cover.

B. Cast Iron: New cast iron riser rings shall be of domestic origin, conform to the latest edition of AASHTO M306, and designed for H-20 traffic load rating. Contractor shall use cast iron riser rings for construction and/or adjustment of the manhole frame and cover with an adjustment height of two (2") inches per each ring.

#### PART 3 - EXECUTION:

3.1 General: The CONTRACTOR shall adjust the grade, elevation, and slope of existing manhole frames to conform to the grade, elevation and slope of the new pavement. Adjustments, if any, shall be made after installation of the pavement. Existing sewer manholes that would be covered over or affected by the new work shall be adjusted to match the grade of the new pavement surface. Manholes will be adjusted using adjustment rings where possible. The adjustment ring shall be installed and shall be adjusted so that there is no noticeable grade difference in any direction when measured with a straight edge.

(Revised Per Addendum No. 1)

3.2 Manholes:

A. The CONTRACTOR shall be solely responsible for the accuracy of the adjustment to conform to the new surface. The riding surface in the area of the manhole frame and cover shall be smooth with no bumps or dips. If the frame is not constructed flush, at the same elevation, grade and slope with the new pavement surface, the CONTRACTOR shall cut out and remove a minimum 6' foot square of pavement and readjust to the proper elevation, grade and slope at no further payment. The work shall conform to the Drawings and to these Specifications.

3.3 Barricades and Traffic Control: Contractor shall provide adequate markers, barricades and traffic control to alleviate the hazard to the public and to prevent damage to the work. Refer to Section 02713 - Traffic Regulations of these Specifications.

#### PART 4 - MEASUREMENT AND PAYMENT:

##### 4.1 Adjusting Manhole Frames with Adjustment Rings:

A. Measurement: Adjustment rings satisfactorily set to grade, elevation and slope and accepted as specified, as shown on the Drawings or as directed, will be measured by a count of the actual number of two (2") inch high rings installed and completed.

B. Payment: Adjustment rings and accepted, measured as provided above, will be paid at the Contract unit price per each which price and payment shall constitute full compensation for furnishing all equipment, tools, labor, hauling and incidentals necessary to complete this item in accordance with the Drawings and Specifications.

C. Pay Item: Payment will be made under Adjusting Manhole Frames with Adjustment Rings, 02702A, per Each.

- END OF SECTION -

SECTION 02707

CONCRETE CURB OR CURB AND GUTTER PART 1 - GENERAL

1.1 Scope: This Section includes the furnishing of all labor, material, tools, and equipment necessary to remove and replace curbs or curb and gutters, or, construct new curbs or curb and gutters to the lines, grades, dimensions and details shown on the Drawings and as directed.

1.2 Referenced Standard: Conform to the following sections of the State of Louisiana, Department of Transportation and Development, "Standard Specifications for Roads and Bridges", 2006 Edition, except as modified herein:

Section 302 - Class II - Base Course Section 707 - Curbs and  
Gutters Section 1003 - Aggregates

Delete all provisions concerning "Measurement and Payment" contained in the Referenced Standard.

PART 2 - PRODUCTS

2.1 Concrete: Refer to Section 03300 - Cast-In-Place Concrete of these Specifications.

2.2 Steel Reinforcement: Refer to Section 03200 - Concrete Reinforcement of these Specifications.

2.3 Stone: Stone base for curb and gutter shall comply with the requirements for stone aggregate Class II base course in Section 02302, Class II Base Course of these Specifications ("Dense Grade Aggregate").

PART 3 - EXECUTION

3.1 General: Where an existing curb or curb and gutter is designated to be replaced, the old curb or curb and gutter shall be removed and hauled off. The soil shall be removed to a depth of 8" below the bottom of the new curb or curb and gutter. The sub-grade shall be shaped and compacted to a firm, even surface. A new 8" stone base shall be placed, compacted and graded in accord with the specifications followed immediately by the application of primer. The new curbs or curb and gutter shall be constructed to the same shape as the existing curbs or curb and gutter and shall be constructed of Class "M" concrete as shown on the Drawings. The invert of the gutter shall be carefully formed to grade in a straight line between the ends of the existing gutter remaining in place. All new curb or curb and gutters shall be poured monolithically. Prior to the asphalt paving work, all required curbs or curb and gutters, or drainage construction or reconstruction shall be performed.

PART 4 - MEASUREMENT AND PAYMENT

4.1 Measurement: Stone base for curb or curb and gutter construction will not be measured for payment. Concrete curb and curb and gutter satisfactorily completed and accepted as specified, as shown on the Drawings or as directed, will be measured by the linear foot of length actually constructed. The length shall be the distance from end to end of the new work.

4.2 Payment: Concrete curbs or curb and gutter in place and accepted, measured as provided above, will be paid at the Contract unit price per linear foot, which price and payment shall constitute full compensation for furnishing all materials, equipment, tools, labor, hauling, traffic control, signs, barricades, safety items and incidentals necessary to complete this item in accordance with the Drawings and Specifications. Cost of breaking out and removing existing curb and curb and gutter shall be included in this item.

4.3 Pay Item: Payment will be made under Remove and Replace of Concrete Curb or Curb and Gutter (Including 8" Compacted Stone Base) 02707 per L.F.

- END OF SECTION -

SECTION 02713 TRAFFIC REGULATION

PART 1 - GENERAL

1.1 Scope: This Section provides for project construction signing, traffic control devices, other materials, and manpower required for proper routing, regulation, direction, and maintenance of local vehicular and pedestrian traffic and to provide safe access through the construction project.

1.2 Referenced Standard: Conform to the following sections of the State of Louisiana, Department of Transportation and development, "Louisiana Standard Specifications for Roads and Bridges", 2006 Edition, except as modified herein:

Section 713 - Temporary Traffic Control Section 729 - Traffic Signs and Devices Section 1015 - Signs and Pavement Markings Section 1018 - Miscellaneous Materials

As a minimum, signing shall comply with the Manual of Uniform Traffic Control Devices as referred to in the Referenced Standard.

Delete all provisions concerning "Measurement and Payment" contained in the referenced Standard.

PART 2 - PRODUCTS

2.1 Materials and devices shall conform to the following sections subsections of the Referenced Standard:

Materials and fabrication for temporary signs.....	729
Temporary Sign Panels .....	1015.04(b)
Barricade Warning Lights .....	1018.12
Temporary Pavement Markings.....	1015.08

PART 3 - EXECUTION

3.1 General:

A. The CONTRACTOR shall be responsible for providing safe and expeditious movement of traffic through construction zones. A construction zone is defined as the immediate areas of actual construction and all abutting areas which are used by the CONTRACTOR and which interfere with driving or walking public.

B. Remove temporary equipment and facilities when no longer required, restore area to original, or to specified conditions.

C. Portions of this project are located along heavily traveled streets. The CONTRACTOR is required to maintain at least one lane of traffic with barricades and flagmen at all times.

3.2 Procedure:

A. The necessary precautions shall include, but not be limited to, such items as proper construction warning signs, signals, lighting devices, markings, barricades, channelization, and hand signaling devices.

B. The CONTRACTOR shall provide at least five (5) working days notification to the ENGINEER of the necessity to close any portion of a roadway carrying vehicles or pedestrian traffic so that the final approval of the OWNER's Public Works Department can be obtained. At no time will more than one (1) lane of a roadway be closed to vehicles and pedestrians. With such closings, adequate provision shall be made for the safe expeditious movement of each.

C. The CONTRACTOR shall also be responsible for notifying Fire, Police and Ambulance Departments whenever roads are impassible at least 24 hours in advance of any closure.

D. The CONTRACTOR shall be responsible for removal, relocation, or replacement of any traffic control device in the construction area which exists as part of the normal preconstruction traffic control scheme.

E. The CONTRACTOR shall immediately notify the OWNER of any vehicular or pedestrian safety or efficiency problems incurred as a result of the construction of the project.

F. Construction signing, detours, and traffic control devices shall be in accordance with the Louisiana Manual of Uniform Traffic Control Devices.

G. The CONTRACTOR shall maintain pedestrian traffic with the use of plywood, handrails, temporary steps, etc. as required to safely and satisfactorily maintain public access to sidewalks, entrances, etc.

H. The CONTRACTOR shall erect barricades with flashing lights on public streets where construction excavation, debris, equipment, material, etc. is left overnight. All materials furnished and work performed as provided by this section shall be considered as a subsidiary obligation under this contract with no separate pay item provided.



I. The CONTRACTOR shall schedule and conduct a safety meeting at least once per month.

J. The CONTRACTOR shall provide a normal "moving work crew" sign and barricade package operation. The package shall consist of portable or moveable warning and regulatory signs including, but not limited to "Flagman Ahead", "One Lane Road Ahead", "Speed Zone Ahead", "Speed Limit 20 mph", and other necessary signs, delineators, barricades and channelization markers and devices as well as qualified flag persons with appropriate signaling devices, all in accord with the Louisiana Manual of Uniform Traffic Control Devices.

K. Where manholes, valve boxes or other structures have been raised to the new grade or where cold planning or other removal has resulted in objects protruding two inches (2") or more above the traveled surface prior to the overlay work, the Contractor shall provide and maintain a Type I or II barricade or drum with warning light at or on each such hazard.

#### PART 4 - MEASUREMENT AND PAYMENT

4.1 Measurement: Traffic control including temporary signs and barricades, "moving work crew" package and traffic flagging satisfactorily provided, performed and completed as described above will be measured for each Work Task which requires traffic control. This item will not be measured for any Work Task for which traffic control is not required.

4.2 Payment: Traffic control measured as provided above, will be paid at the Contract unit price, which price and payment shall constitute full compensation for furnishing all traffic control, signs, barricades, safety items, flagmen, and incidentals necessary to complete this item in accordance with the Drawings and Specifications.

4.3 Pay Item: Payment will be made under Temporary Signs and Barricades Where Required (For Task Orders Less than \$25,000) (Per Work Task) 02713 per each.

4.4 Pay Item: Payment will be made under Temporary Signs and Barricades Where Required (For Task Orders Greater than \$25,000 and Less than \$200,000) (Per Work Task) 02713 per each.

4.5 Pay Item: Payment will be made under Temporary Signs and Barricades Where Required (For Task Orders Greater than \$200,000 and Less than \$500,000) (Per Work Task) 02713 per each.

4.6 Pay Item: Payment will be made under Temporary Signs and Barricades Where Required (For Task Orders Greater than \$500,000) (Per Work Task) 02713 per each.

- END OF SECTION -



## SECTION 02724 PAVEMENT PATCHING

### PART 1 - GENERAL

1.1 Scope: This Section includes the furnishing of all labor, material, tools, and equipment necessary to remove and replace existing pavements in accordance with these Specifications, with the specified materials and to the lines, grades and typical sections or thicknesses shown on the Drawings or as directed by the ENGINEER.

1.2 Pavement patching shall be:

- A. 2" Asphalt over 9" stone base
  - B. 12" Asphaltic Concrete
  - C. Full Depth Patching of Jointed Concrete Paving
- as selected by the Engineer for each patch.

1.3 Referenced Standard: Conform to the following sections of the State of Louisiana, Department of Transportation and Development, "Standard Specifications for Roads and Bridges", 2006 Edition, except as modified herein:

Section 302	- Class II Base Course
Section 502	- Superpave Asphaltic Concrete Mixtures Section 503 -
Asphaltic Concrete Equipment and Processes Section 504	- Asphalt Tack Coat
Section 505	- Asphalt Prime Coat
Section 601	- Portland Cement Concrete Pavement
Section 602	- Portland Cement Concrete Pavement Rehabilitation
Section 806	- Reinforcement
Section 723	- Granular Material
Section 901	- Portland Cement Concrete Section 1003 Aggregates
Section 1009	- Reinforcing Steel and Wire Rope

Delete all provisions concerning "Measurement and Payment" contained in the referenced Standard.

### PART 2 - PRODUCTS

2.1 Asphaltic Concrete, Tack Coat, Prime Coat, Etc.: Refer to Section 02501 - Asphaltic Concrete Paving and Overlay of these Specifications.

2.2 Stone: Stone shall be in accordance with paragraph I003.03(b) of the referenced Standard.

2.3 Portland Cement Concrete: Refer to Section 601 of "Standard Specifications for Roads and Bridges", 2006 Edition

### PART 3 - EXECUTION

3.1 General: Patching shall be made by removal of designated failed areas and replacing with the specified materials to the required surface. Areas, locations and quantities of Pavement Patching will be determined in the field OWNER'S representative. This work shall be performed where directed in areas to be overlaid or in isolated areas not be overlaid. When patching areas in streets designated only for "Overlay" contractor shall adjust patch grade flush with existing to accommodate

the 4" and 2" overlay asphalt thickness.

### 3.2 Pavement Patching with 2" Asphaltic Concrete and 9" Stone Base:

- A. Pavement Patching shall be made by cutting, breaking out (as directed) and removing the designated area of asphalt pavement and excavating sufficient depth to allow for 12" base course, 9" patch overlay and 2" asphaltic concrete patch surface course.
- B. Removed and excavated materials shall be hauled off and disposed of at an approved landfill.
- C. Pavement Patching requirements including 9" base course and 2" asphaltic concrete surface course shall be performed in areas designated by the OWNER'S representative. The requirements for asphaltic concrete pavement patching are identical in areas to be overlaid and isolated areas not to be overlaid within existing asphaltic concrete streets.
- D. Grade, crown and alignment shall match the existing adjacent surface.
- E. Asphaltic concrete shall conform to Section 02501 - Asphaltic Concrete Paving and Overlay of these Specifications.
- F. Cutting or sawcutting of existing pavement and base shall be as specified under Section 02902, of these Specifications.
- G. Stone base shall conform to Section 02401 - Sand-Clay-Gravel and Aggregate Surface.

### 3.3 Pavement Patching with 12" Asphaltic Concrete:

- A. Asphaltic Concrete pavement patching shall be made by breaking out (as directed) and removing the designed area of asphalt pavement and base and excavating sufficient depth to allow for 12" asphaltic concrete patch.
- B. Removed and excavated materials shall be hauled off and disposed of at an approved landfill.
- C. Pavement Patching with Asphaltic Concrete requirements shall be performed in areas designated by the OWNER'S representative. The requirements for asphaltic concrete pavement patching are identical in areas to be overlaid and isolated areas not to be overlaid within existing asphalt streets.
- D. Grade, crown and alignment shall match the existing adjacent surface.
- E. Asphaltic concrete shall conform to section 02501 - Asphaltic Concrete Paving and Overlay of these Specifications.
- F. Cutting or sawcutting of existing pavement and base shall be as specified under Section 02902, of these Specifications.

### 3.4 Full Depth Concrete Pavement Patching:

- A. Refer to Sections 601, 602, 806, 901, and 1009 of Louisiana "Standard Specifications for Roads and Bridges", 2006 Edition, for installation details.

## PART 4 - MEASUREMENT AND PAYMENT

### 4.1 Pavement Patching with 2" Asphaltic Concrete and 9" Stone Base:

A. Measurement: Removal and disposal of existing surface, base and subbase will not be measured for payment. Prime coat will not be measured for payment. Asphalt Pavement Patching with Asphaltic concrete of the thickness specified, satisfactorily completed and accepted, as specified, as shown on the Drawings or as directed, will be measured by the square yard.

B. Payment: Pavement Patching with asphaltic concrete in place and accepted, measured as provided above, will be paid at the Contract unit price and payment shall constitute full compensation for furnishing all materials, equipment, tools, labor, hauling, safety items and incidentals necessary to construct this item in accordance with the Drawings and Specifications.

C. Pay Item: Payment will be made under Pavement Patching (2" Asphaltic Concrete with 9" Compacted Stone Base) 02724 per S.Y.

### 4.2 Pavement Patching with 12" Asphaltic Concrete:

A. Measurement: Removal and disposal of existing surface, base and subbase will not be measured for payment. Prime coat will not be measured for payment. Asphalt pavement patching with asphaltic concrete of the thickness specified, satisfactorily completed and accepted, as specified, as shown on the Drawings or as directed, will be measured by the square yard.

B. Payment: Pavement patching with asphaltic concrete in place and accepted, measured as provided above, will be paid at the Contract unit price and payment shall constitute full compensation for furnishing all materials, equipment, tools, labor, hauling, safety items and incidentals necessary to construct this item in accordance with the Drawings and Specifications.

C. Pay Item: Payment will be made under Pavement Patching (12" Asphaltic Concrete) 02724 per S.Y.

### 4.3 Full Depth Patching of Jointed Concrete Pavement:

A. Measurement: Removal and disposal of existing surface, base and subbase will not be measured for payment. Concrete Pavement Patching satisfactorily completed and accepted, as specified, as shown on the Drawings or as directed, will be measured by the square yard.

B. Payment: Pavement patching with concrete in place and accepted, measured as provided above, will be paid at the Contract unit price and payment shall constitute full compensation for furnishing all materials, equipment, tools, labor, hauling, safety items and incidentals necessary to construct this item in accordance with the Drawings and Specifications.

C. Pay Item: Payment will be made under Full Depth Patching of Jointed Concrete Pavement (Depth Varies) 02724 per S.Y.

- END OF SECTION -





## SECTION 02725 MAILBOXES AND MAILBOX SUPPORTS

### PART 1 - GENERAL

1.1 Scope: This Section covers the furnishings of all labor, materials, tools and equipment, and performing all operations necessary to install new mailboxes and mailbox supports as indicated on the Drawings and as directed by the ENGINEER.

1.2 Referenced Standard: Conform to the following sections of the State of Louisiana, Department of Transportation and development, "Louisiana Standard Specifications for Roads and Bridges", 2006 Edition, except as modified herein:

Section 735 - Mailboxes and Mailbox Supports

(a) Subsections pertaining to Measurement and Payment are deleted.

### PART 2 - PRODUCTS

2.1 Mailboxes: Shall be fabricated of light sheet metal or plastic complying with the requirements of USPS. The replacement mailbox shall be the same size as the existing mailbox. Newspaper tubes shall be furnished by the property owner. Names and numbers on mailboxes will be the responsibility of the property owner.

2.2 Mailbox Supports: Shall be galvanized and shall be metal posts with a strength no greater than a 2-inch diameter standard-strength steel pipe or a 2-pound per foot flanged channels. Mailbox support shall include an anti-twist device.

2.3 Materials: Sampling and testing of materials will not be required.

### PART 3 - EXECUTION

3.1 Erection:

A. Mailbox supports shall be installed a maximum of 24 inches in the ground and shall not be set in concrete. Support-to-box attachment shall be sufficient to prevent the box from separating from the support if the support is struck by an automobile or light truck. Newspaper tubes shall be mounted below the mailbox on the side of the mailbox support.

B. Disposal of materials by the contractor shall be in accordance with Subsection 202.02 at no direct pay.

#### PART 4 - MEASUREMENT AND PAYMENT

4.1 Measurement: Mailboxes will be measured per each and will include furnishing new mailboxes. Mailbox supports will be measured per each and will include all materials, bolts, nuts, washers and other components, equipment, and labor necessary to remove and replace mailbox supports, install mailboxes, and install newspaper delivery tubes.

4.2 Payment: Payment will be made at the contract unit price per each. This includes all materials, labor, equipment to install mailboxes and mailbox supports.

4.3 Pay Item: Payment will be made under Remove and Reset Existing Mailboxes and Mailbox Supports 02725, per Each.

- END OF SECTION -

## SECTION 02726 BEDDING MATERIAL

### PART 1 - GENERAL

1.1 Scope: This Section covers all operations necessary to provide bedding material for concrete pipe and drainage structures.

1.2 Reference Standard: Work shall conform to the following Section of the State of Louisiana, Department of Transportation and Development, "Louisiana Standard Specifications for Roads and Bridges", 2006 Edition, except as may be modified herein:

#### Section 726 - Bedding Material

(a) Subsections pertaining to Measurement and Payment are deleted.

1.3 Submittals: Submit product data in accordance with provisions of Section 01340 - Shop Drawings, Samples and Project Data.

### PART 2 - PRODUCTS

2.1 Bedding Material: Bedding material shall conform to subsection 1003.08(c)(1) - Gravel or subsection 1003.08 (c)(2) - Recycled Portland Cement Concrete, Crushed Slag or Stone; or subsection 1003.08 (c)(3) - Granular Material of the referenced Standard as accepted by the ENGINEER.

2.2 Geotextile Fabric: Geotextile Fabric shall comply with Section 1019.01 of the referenced Standard.

### PART 3 - EXECUTION

3.1 General: Bedding material with Geotextile Fabric shall be installed as described in Section 726 of the referenced Standard and accepted by the ENGINEER.

### PART 4 - MEASUREMENT AND PAYMENT

4.1 Measurement: Bedding Material (Vehicular Measurement) when directed and/or where authorized by the OWNER will be measured by the cubic yard in approved hauling vehicles, upon receipt of certified tickets, installed and compacted, and including all work, labor, tools, equipment, materials and incidentals as required to complete the item.

4.2 Payment: Payment will be at the Contract unit price per Cubic Yard, measured as provided above, in approved hauling vehicles upon submittal of certified receipts.

4.3 Pay Items: Payment will be made under Bedding Material (Where Authorized) 02726, per Cubic Yard.

- END OF SECTION -

## SECTION 02736

### COLD PLANING ASPHALT PAVEMENT

#### PART 1 - GENERAL

1.1 Scope: This Section includes the furnishing of all labor, tools, and equipment to perform all work required to mechanically remove existing asphaltic concrete surfacing to the width, depth, cross sections and tolerances as directed by the ENGINEER.

1.2 Referenced Standard: Conform to the following sections of the State of Louisiana, Department of Transportation and Development, "Standard Specifications for Roads and Bridges", 2006 Edition, except as modified herein:

Section 509 - Cold Planning Asphalt Pavement

Delete all provisions concerning "Measurement and Payment" contained in the referenced Standard.

#### PART 2 - PRODUCTS: (NOT USED) PART 3 - EXECUTION:

3.1 Cold Planning: Cold planning to remove old overlays will be required on certain streets as shown on the Drawing, as specified or as directed by the ENGINEER. Cold planning may be required over the full width of the street from edge to edge, curb to curb or gutter to gutter and for the full length of the overlay. Minor cold planning may be required in small designated areas to provide smooth transitions, to remove obstructions at catch basins, and to remove bumps or high spots as shown on the Drawings or as directed by the ENGINEER. No more than two inches (2") of material shall be removed on each pass of the machine or as directed by the ENGINEER.

3.2 Reclaimed Asphaltic Pavement (RAP): **All the RAP milled from Parish streets will become the property of the Parish.**

3.3 Barricades and Traffic Control: Contractor shall provide adequate markers, barricades and traffic control to alleviate the hazard to the public and to prevent damage to the work. Refer to Section 02713 Traffic Regulations of these specifications.

PART 4 - MEASUREMENT AND PAYMENT:

4.1 Cold Planning Asphaltic Pavement:

A. Measurement: Cold Planning Asphaltic Pavement satisfactorily completed and accepted as specified, as shown on the Drawings or as directed, will be measured by the square yard of surface actually removed at the average thicknesses specified. The unit for each shall include delivering the removed material to the OWNER.

B. Payment: Cold Planning Asphaltic Pavement complete, measured as provided above, will be paid at the Contract unit price per square yard at the average thickness specified which price and payment shall constitute full compensation for furnishing all equipment, tools, labor, hauling, traffic control, signs, barricades, safety items and incidentals necessary to complete this item in accordance with the Drawings and Specifications.

C. Pay Item: Payment will be made under Cold Planning Asphaltic Pavement (2" Average Thickness) 02736 per S.Y.

- END OF SECTION -

## SECTION 02737 PAINTED TRAFFIC STRIPING

### PART 1 - GENERAL

1.1 Scope: This Section covers the requirements for temporary and permanent traffic striping and pavement markings and including all work, labor, materials, tools, equipment and incidentals required to complete the requirements as shown on the Drawings, as specified herein, as directed by the ENGINEER to the satisfaction of the OWNER.

1.2 Referenced Standard: Work shall conform to the following Sections of the State of Louisiana, Department of Transportation and Development, "Louisiana Standard Specifications for Roads and Bridges", 2006 Edition

Section 737                    Painted Traffic Striping  
Section 1015 -                Signs and Pavement Markings

(a)                    Subsections pertaining to Measurement and Payment are deleted.

1.3 Submittals: Submit products and sample data in conformance with Section 01340- "Shop Drawings, Samples and Project Data" including the following;

A.                    Paint: Provide letter of certification from the paint manufacturer for each paint color to be used.                Letters shall certify to inclusion on LDOTD QPL 36.

B.                    Glass Beads: Provide a Certificate of Delivery for the beads; i.e., sample only if questionable.

### PART 2 - PRODUCTS

2.1 Paint: Paint for traffic striping and marking shall be quick dry alkyd or waterbased traffic paint for use with hot application equipment. Paint shall be listed in QPL 36 and shall comply with Section 1015.12 of the referenced Standard.

2.2 Glass Beads: Glass beads shall conform to Section 1015.13 of the referenced Standard.

### PART 3 - EXECUTION

3.1 General: Install painted traffic striping and markings in conformance with Section 737 of the referenced Standard, except as may be modified herein.

3.2 Equipment: Paint application equipment shall be equipped with a heat exchanger to heat the paint to reduce drying time. The operation shall include a traveling vehicle equipped with a flashing "Arrow" board.

3.3 Surface Preparation: Surfaces to receive painting shall be cleaned of materials that may reduce adhesion of paint to pavement. Surfaces shall be kept clean and dry at the time of application. Only those surfaces prepared and approved by the ENGINEER will be painted.

3.4 Application Rate:

3.4.1 Paint: Shall be applied at the specified widths as shown on the Drawings. Paint shall be applied at the rate of 25 gallons per mile at a thickness of 22 wet mils and 15 dry mils to produce a 4-inch wide solid line.

3.4.2 Glass Beads: Shall be applied at the same time as the paint but in a separate operation at the rate of 10 pounds of beads per gallon of paint.

3.5 Protection: Protect newly applied wet paint in strict conformance with 737.09 of the referenced Standard. Traffic shall be prevented from crossing a wet stripe. The contractor shall use flaggers or other methods to prevent traffic from crossing the wet stripe or adjust the operation. Stripes that have been marred or picked up by traffic before they have dried shall be repaired by the contractor at no direct pay. The CONTRACTOR shall be responsible for clean-up, traffic marks, etc., outside of painted areas at no cost to the OWNER.

#### PART 4 - MEASUREMENT AND PAYMENT

4.1 Measurement: Painted traffic striping applied as specified including all work, labor, material, tools, equipment and incidentals required to complete the item as shown on the Drawings, as specified herein and or as directed by the ENGINEER, will be measured by the linear foot of single stripe per roadway, exclusive of gaps.

4.2 Payment: Painted traffic striping and markings, measured as provided above, will be paid by the L.F. of single stripe per roadway, installed and accepted.

4.3 Pay Item: Payment will be made under Painted Traffic Striping (Solid Line) (4" Width with Reflective Beads) 02737, per Mile and Painted Traffic Striping (Broken Line) (4" Wide with Reflective Beads) (10' Length) (40' Centers) 02737, per Mile.

- END OF SECTION -



## SECTION 02738 TEMPORARY PAVEMENT MARKING TAPE

### PART 1 - GENERAL

1.1 Scope: This Section covers the requirements for temporary striping tape, etc., and including all work, labor, materials, tools, equipment and incidentals required to complete the requirements as specified herein, as directed by the ENGINEER to the satisfaction of the OWNER.

1.2 Referenced Standard: Work shall conform to the following Sections of the State of Louisiana, Department of Transportation and Development, "Louisiana Standard Specifications for Roads and Bridges", 2006 Edition

Section 1015.08(a) Temporary Pavement Marking Tape

(a) Subsections pertaining to Measurement and Payment are deleted.

### PART 2 - PRODUCTS

2.1 Temporary Tape: Temporary Tape shall comply with ASTM D4592, Type I(Removable) and shall be an approved product listed on the La Dots Qualified Products list 60.

2.2 Glass Beads: Glass beads shall conform to Section 1015.13 of the referenced Standard.

### PART 3 - EXECUTION

3.1 General: Install Temporary Pavement Marking Tape in conformance with Section 713 of the referenced Standard, except as may be modified herein. Temporary Pavement Marking Tape shall be in place at the end of each day's operation. Temporary striping tape shall be applied by approved methods to the satisfaction of the ENGINEER.

3.2 Striping Placement: Temporary striping shall be 4 inch wide by 4 feet long broken line striping placed as indicated on the Drawing or as directed by the ENGINEER. Temporary striping shall have a standard 36-foot gap between each strip.

### PART 4 - MEASUREMENT AND PAYMENT

4.1 Measurement: Temporary Pavement Marking Tape applied as specified including all work, labor, material, tools, equipment and incidentals required to complete the item as directed by the ENGINEER, will be measured by the mile of single stripe per roadway. No deduction will be made for the standard 36-foot gaps in broken-line striping; however, deductions will be made for the length of other omitted sections.

4.2 Payment: Temporary Pavement Marking Tape, measured as provided above, will be paid by the mile of single stripe per roadway, installed and accepted.

4.3 Pay Item: Temporary Pavement Marking Tape (Broken Line) (4"width) (4' Length), (02738), per mile.

- END OF SECTION -

## SECTION 02765

### PLASTIC PAVEMENT MARKINGS

#### PART 1 - GENERAL

1.1 Scope: This Section includes requirements for installation of Plastic Pavement Markings as indicated on the Drawings and as specified herein.

1.2 Reference Standard: Work shall conform to the following Section(s) of the State of Louisiana, Department of Transportation and Development, "Louisiana Standard Specifications for Roads and Bridges", 2006 Edition, except as may be modified herein:

Section 732	<u>Plastic Pavement Markings Signs and Pavement Markings</u>
Section 1015	

(a) Subsections pertaining to Measurement and Payment are deleted.

1.3 Submittal: Products and sample data shall be submitted in conformance with Section 01340- "Shop Drawings, Samples and Project Data" including the following:

A. Surface Primer: Visual inspection by the Engineer to ensure that the manufacturer's recommendations are being followed.

B. Glass Beads: Provide a Certificate of Delivery for the beads; i.e., sample only if questionable.

C. Preformed Plastic Marking Tape: Shall be approved by DOTD QPL 64; also, provide a Certificate of Delivery for the material.

D. Thermoplastic Marking (Hot Applied): Shall be approved by DOTD QPL 63; also, provide a Certificate of Delivery for the materials.

#### PART 2 - PRODUCTS

2.1 Thermoplastic Markings: Shall be a plastic compound reflectorized by internal and external application of glass beads, complying with Subsections 1015.10 & 105.13. Width and color of markings shall be as specified.

2.2 Preformed Plastic Markings: Shall comply with Subsection 1015.11.

2.3 Surface Primer: A single component surface primer or two component epoxy primer sealer shall be provided by the contractor for the appropriate application in accordance with Subsection 732.03(e). The primer shall form a continuous film that dries rapidly and adheres to the pavement.

2.4 Glass Beads: Used for drop-on application to molten plastic shall be shipped in moisture resistant sacks (containers). Glass beads for standard (flat) thermoplastic markings shall be in accordance with Subsection 1015.13.

### PART 3 - EXECUTION

3.1 Weather Limitations: Application of markings will not be permitted when there is excessive pavement moisture or when the surface temperature or ambient temperature is below 50 degrees Fahrenheit. See Subsection 732.03 (b) for additional details.

3.2 Cleaning of Surface: Surfaces on which markings are to be applied shall be cleaned of materials that may reduce adhesion of the thermoplastic marking materials to the pavement. Cleaning shall be done by blast cleaning or grinding. Surfaces shall be kept clean until placement of markings.

3.3 Application:

A. A single component surface primer will be required prior to placement of preformed plastic markings over an existing painted stripe, over old bleached asphalt, on portland cement concrete surfaces, or all surfaces when ambient temperatures are below 70 degrees Fahrenheit unless otherwise directed by the Engineer. A two component epoxy primer sealer will be required prior to placement of thermoplastic materials on portland cement concrete surfaces or all surfaces when ambient temperatures are below 70 degrees Fahrenheit unless otherwise directed by the Engineer.

B. Install pavement markings according to manufacturer's recommended procedures for the specified material. See Subsection 732.03(f).

3.4 Corrective Work: Any line found to be defective shall be restriped or replaced as directed by the Engineer. The corrective work shall also be subject to these requirements. The contractor shall replace the pavement marking material at no cost to the Owner.

### PART 4 - MEASUREMENT AND PAYMENT

4.1 Measurement: Plastic striping will be measured by the mile, exclusive of gaps. No deduction will be made for standard 30-foot design gaps in broken-line striping; however, deductions will be made for the length of other gaps or omitted sections. Plastic legends and symbols will be measured per each legend or symbol. Symbols shall include all letters, lines, bars or markings necessary to convey the message at each location.

4.2 Payment: Plastic striping will be measured as provided above and paid by the mile. Plastic stop bars will be paid by the linear foot. Plastic legends and symbols will be paid per each legend or symbol.

4.3 Pay Item: Payment will be made under:

Plastic Pavement Striping (Solid Line) (4" Width with Beads) 02765, per Mile.

Plastic Pavement Striping (Broken Line) (10' Length) (40' Center) (4" Width with Beads) 02765, per Mile.

Plastic Pavement Striping (Solid Line) (24" Width with Beads) (STOP Bar) 02765, per L.F. Plastic Pavement Legends and Symbols (Type) 02765, per Each.

- END OF SECTION -



## SECTION 02902 SAW CUT PAVEMENT

### PART 1 - GENERAL

1.1 Scope: Furnish all labor, materials, tools and equipment, and perform all operations required for abrasive or diamond abrasive saw cutting of pavement surfaces in accordance with the Specifications.

### PART 2 - PRODUCTS (NOT USED)

### PART 3 - EXECUTION

3.1 Saw cuts shall be cut in a neat and straight manner as directed and so as not to damage the surrounding pavement.

3.2 The saw cut joint shall be full depth of the thickness of the existing pavement.

### PART 4 - MEASUREMENT AND PAYMENT

4.1 Measurement: Quantities of saw cutting of asphaltic or portland cement concrete will be measured by the inch-foot (measurement of the thickness of pavement cut in inches, multiplied by the length of cut in feet).

4.2 Payment: Saw cutting of asphaltic or portland cement concrete pavement measured as provided above, will be paid at the Contract unit price per inch-foot which price and payment shall constitute full compensation for furnishing all materials, equipment, tools, labor, hauling, safety items and incidentals necessary to complete this item in accordance with the Drawings and Specifications.

4.3 Pay Item: Payment will be made under Saw Cutting of Asphaltic or Portland Cement Concrete Pavement (Full Depth) 02902 per Inch-Foot.

- END OF SECTION -





ASCENSION PARISH COUNCIL

ASPHALT CONCRETE  
RECONSTRUCTION & OVERLAY IMPROVEMENTS (INDEFINITE  
DELIVERY/INDEFINITE QUANTITY CONTRACT) - 2023

(INDEFINITE DELIVERY/INDEFINITE QUANTITY CONTRACT)

DIVISION 03 - CONCRETE Section 03100 - CONCRETE FORMWORK  
Section 03200 - CONCRETE REINFORCEMENT Section 03300 -  
CAST-IN-PLACE CONCRETE

## SECTION 03100

### CONCRETE FORMWORK

#### PART 1 - GENERAL

1.1 Scope: This Section includes the furnishing of all labor, materials, tools and equipment, and perform all operations necessary to furnish, place, finish and cure Portland Cement concrete for structures requiring form work.

1.2 Storage and Handling:

- A. Forms shall be stored in a neat and orderly fashion and protected from damage.
- B. If any form is deemed by the ENGINEER to be unfit for use, it shall be removed from the job.
- C. Forms shall be cleaned and stacked immediately after stripping from concrete.

1.3 Referenced Standard: Conform to the following sections of the State of Louisiana, Department of Transportation and Development, "Standard Specifications for Roads and Bridges", 2006 Edition, except as modified herein:

Section 805 - Structural Concrete

Section 901 - Portland Cement Concrete

Delete all provisions concerning "Measurement and Payment" contained in the referenced Standard.

#### PART 2 - PRODUCTS

2.1 General: Materials shall conform to applicable provisions of Sections or Subsections referred to in the Referenced Standard.

#### PART 3 - EXECUTION

3.1 General: All work related to this Section shall conform to the applicable provisions contained in the referenced Standard.

#### PART 4 - MEASUREMENT AND PAYMENT

4.1 Measurement and Payment: This work will not be measured for payment. The cost of this work shall be included in other items to which it is subsidiary.

- END OF SECTION -



## SECTION 03200

### CONCRETE REINFORCEMENT

#### PART 1 - GENERAL

1.1 Scope: This Section includes furnishing all labor, materials, tools and equipment, and perform all operations necessary for concrete reinforcement work indicated on Drawings and as directed by the ENGINEER.

1.2 Reference Standard: Conform to the following sections of the State of Louisiana, Department of Transportation and Development, "Standard Specifications for Roads and Bridges", 2006 Edition, except as modified herein:

Section 806 - Reinforcement

Section 1009 - Reinforcing Steel and Wire Rope

Delete all provisions concerning "Measurement and Payment" contained in the referenced Standard.

#### PART 2 - PRODUCTS

2.1 General: Reinforcement shall conform to Section 1009 of the Referenced Standard, **except that all reinforcement shall be Grade 60.**

#### PART 3 - EXECUTION

3.1 General: All work related to this Section shall conform to the applicable provisions contained in the Referenced Standard.

#### PART 4 - MEASUREMENT AND PAYMENT

4.1 Measurement and Payment: This work will not be measured for payment. The cost of this work shall be included in other items to which it is subsidiary.

- END OF SECTION -



PART 1 - GENERAL

1.1 Scope: This Section covers all operations necessary for cast-in-place concrete work indicated on the Drawings and specified herein.

1.2 Referenced Standard: Conform to the following sections of the State of Louisiana, Department of Transportation and Development, "Standard Specifications for Roads and Bridges", 2006 Edition, except as modified herein:

Section 901 - Portland Cement Concrete

Delete all provisions concerning "Measurement and Payment" contained in the referenced Standard.

PART 2 - PRODUCTS

2.1 General: Material for Portland Cement concrete shall conform to the applicable sections and subsections of the referenced Standard.

2.2 Flyash: **No flyash shall be used for any structure for this project.**

2.3 Portland Pozzolan Cement: **No Portland Pozzolan Cement shall be used for any structure for this project.**

2.4 Non-Shrink Cement Grout: Non-shrink cement grout shall consist of cement, aggregate and additives formulated to meet the following volume change requirements. Early volume change (within 24 hours) as tested by ASTM C827 shall be limited to zero (0) percent shrinkage and four (4) percent maximum expansion. Long term volume change, of hardened non-shrink cement grout (after 1 day for cure) shall conform to the Corps of Engineers Specification for Non-Shrink Grout, CRD-C621-82B. Shrinkage shall be zero (0) percent and expansion limited to a maximum of 0.4 percent volume change. Cement additives required to meet this specification shall be recommended by the grout manufacturer but shall be non-staining and non-metallic. Grout shall be equal to "Five Star" cement products manufactured by the U.S. Grout Corporation.

2.5 Non-Shrink Epoxy Grout: Non-shrink epoxy grout shall meet plastic volume changes within the first four (4) hours of zero (0) percent shrinkage and four (4) percent maximum expansion as tested by ASTM C827. Restrained hardened epoxy grout shall have zero (0) percent shrinkage as tested by ASTM C537. Epoxy grout shall have zero (0) percent expansion in volume change after set under constant temperature conditions. Epoxy grout shall be 100 percent solids formulated with resin, hardener and aggregate as recommended by the

manufacturer. Epoxy grout shall be equal to "Five Star" epoxy products manufactured by the U.S. Grout Corporation.

### PART 3 - EXECUTION

3.1 General: All work related to this Section shall conform to the applicable provisions contained in the referenced Standard.

3.2 Concrete Compressive Strength: The average compressive strength in 28 days of portland cement concrete shall be 3,000 psi (Class M) or greater for drives, curbs and gutters, and 4,000 psi (Pavement Class) or greater for manhole pads, valve box pads and roadway pavement.

### PART 4 - MEASUREMENT AND PAYMENT

4.1 Measurement and Payment: This work will not be measured for payment. The cost of this work shall be included in other items to which it is subsidiary.

- END OF SECTION -