



ST. TAMMANY PARISH

PATRICIA P. BRISTER
PARISH PRESIDENT

July 6, 2018

Please find the following addendum to the below mentioned BID.

Addendum No.: 1
Bid#: 308-00-18-14-2
Project Name: 2018 District 8 Panel Replacements
Bid Due Date: July 11, 2018

GENERAL INFORMATION:

1. Please remove "Unit Price Form" from Section 04 and replace with "Unit Price Form Revised". (Attached)
2. Please remove "Amber Ct." specification from Section 04 and replace with "Amber Ct. Revised". (Attached)
3. Please add "CB-06" to Section 12. (Attached)

QUESTIONS & ANSWERS:

Question #1: Bid package, pages 60 - 69 Has hand written descriptions for each site in a notebook. I can read everything on the left side of the notebook but nothing on the right side of the notebook. Is there supposed to be info on the Right side of the notebook?

Answer #1: No, the right side was left blank intentionally.

Question #2: Bid package, pages 60 - 69. For each site it gives a average panel size. Can you clarify which measurement is the Longitudinal measurement and which is the Transverse measurement?

Answer #2: Typically the longest measurement is longitudinal. Either way this item is bid by the square yard.

Question #3: Bid package, pages 15 - 59. In the description of "Remove/Replace/Repair Concrete Panels and Concrete Rollover Curb" for each site it states "Base repair and/or patch is not limited to a square yardage quantity, **but may include the entire panel if directed by Department of Public Works inspection staff.** This item is at no direct pay."

If inspection staff does not direct the contractor to remove and replace the entire base (because the base replacement is a lumped in with Remove / Replace Concrete Panels and Concrete Rollover Curb price) it is possible



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that the government will be billed for it anyway. For bidding purposes, Can the government include on the bid form a unit line item for remove, replace and fill base material?

Answer #3: No, the Parish cannot add a pay item because it is estimated as such. The pay item states that after removing the concrete panel, the Contractor is to remove the base material 8" thick below the bottom grade of the new 8" concrete panel. If the ground below that 8" base material is still unsuitable, the Contractor is to remove that section of bad sub-base at no direct pay. Typically after removing the 8" of material the sub-base is still sufficient to install the new river or pumped sand base and compact. The Parish inspector or construction manager will inspect the base before the contractor pours concrete to ensure the base is acceptable.

Question #4: Can the government provide a rough sketch of the panels to be replace?

Answer #4: The panels have not been picked out for removal. The Contractor will have to bid the item as a square yard item.

Question #5: Bid package, page #'s 16 & 61 - Storm Drain Pipe and CB-07 Can the government provide existing inverts and top of concrete for both pipe and CB-07?

Answer #5: No, the Contractor shall document the elevation of the existing inverts and top of concrete and re-install at the same invert elevations, while ensuring there will be positive flow. The Contractor is liable for lines and grades to ensure there are no "bird baths".

Question #6: Bid package, page #'s 16 & 61 - Storm Drain Pipe (15" Equivalent RCPA) Can the government provide inverts for both ends of pipe?

Answer #6: No, the Contractor shall document the existing elevation and re-install the pipe at the same invert elevations.

Question #7: Bid package, page #'s 16 & 61 - Storm Drain Pipe (18" Equivalent RCPA) Can the government provide inverts for both ends of pipe?

Answer #7: No, the Contractor shall document the existing elevation and re-install the pipe at the same invert elevations.

Question #8: Bid package, page #'s 16 & 61 - Catch Basin (CB-07) Can the government provide invert and top of concrete for each of the CB-07??

Answer #8: No, the Contractor shall document the existing elevation of the invert elevations and re-install at the same existing invert elevations and top of concrete.

Question #9: Can the government provide a detail for the CB-07?

Answer #9: Yes, except the catch basin will be changed to a CB-06.

Question #10: Are these CB-07 to be cast in place or brick or precast?

Answer #10: The specification clearly states the catch basin shall be pre-cast or cast in place.



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Question #11: Should the contractor account for base removal and replacement?

Answer #11: **If needed, the Contractor should account for base removal and replacement.**

ATTACHMENTS:

1. Unit Price Form- Revised.pdf
2. Amber Ct. - Revised.pdf
3. CB-06.pdf

<< End of Addendum #1 >>

**LOUISIANA UNIFORM PUBLIC WORK BID FORM
UNIT PRICE FORM
REVISED**

TO:

St. Tammany Parish Government
21454 Koop Drive, Suite 2F
Mandeville, LA. 70471

(OWNER TO PROVIDE NAME AND ADDRESS OF OWNER)

BID FOR:

2018 District 8 Panel Replacements
Bid No.: 308-00-18-14-2

(OWNER TO PROVIDE PROJECT NAME & OTHER IDENTIFYING INFO)

UNIT PRICES: This form shall be used for any & all work required by the Bidding Documents & described as unit prices. Amounts shall be stated in figures & only in figures.

| | | | | |
|---|-----------------|------------------------|-------------------|---|
| Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Mobilization | | | | |
| REF NO.: | QUANTITY | UNIT OF MEASURE | UNIT PRICE | UNIT PRICE EXTENSION (Quantity times unit price) |
| 727-01 | 1 | LS | | |
| Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Temporary Signs and Barricades | | | | |
| REF NO.: | QUANTITY | UNIT OF MEASURE | UNIT PRICE | UNIT PRICE EXTENSION (Quantity times unit price) |
| 713-01 | 1 | LS | | |
| Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Remove/Replace/Repair Concrete Panels and Concrete Rollover Curb | | | | |
| REF NO.: | QUANTITY | UNIT OF MEASURE | UNIT PRICE | UNIT PRICE EXTENSION (Quantity times unit price) |
| 706-03-00500 | 2,471 | SY | | |
| Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Top Soil Shoulder Material | | | | |
| REF NO.: | QUANTITY | UNIT OF MEASURE | UNIT PRICE | UNIT PRICE EXTENSION (Quantity times unit price) |
| 715-01-00100 | 16 | CY | | |

Wording for "description" is to be provided by the Owner. All Quantities Estimated. The Contractor will be paid based upon actual quantities as verified by the Owner.

UNIT PRICES: This form shall be used for any & all work required by the Bidding Documents & described as unit prices. Amounts shall be stated in figures & only in figures.

| | | | | |
|---|-----------------|------------------------|-------------------|---|
| Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Storm Drain Pipe (15" RCPA Equivalent) | | | | |
| REF NO.: | QUANTITY | UNIT OF MEASURE | UNIT PRICE | UNIT PRICE EXTENSION (Quantity times unit price) |
| 701-04-01000 | 72 | LF | | |
| Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Storm Drain Pipe (18" RCPA Equivalent) | | | | |
| REF NO.: | QUANTITY | UNIT OF MEASURE | UNIT PRICE | UNIT PRICE EXTENSION (Quantity times unit price) |
| 701-04-01020 | 100 | LF | | |
| Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Concrete Collar | | | | |
| REF NO.: | QUANTITY | UNIT OF MEASURE | UNIT PRICE | UNIT PRICE EXTENSION (Quantity times unit price) |
| 701-15-00100 | 1 | EA | | |
| Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # Catch Basin (CB-06) | | | | |
| REF NO.: | QUANTITY | UNIT OF MEASURE | UNIT PRICE | UNIT PRICE EXTENSION (Quantity times unit price) |
| 702-03-00600 | 3 | EA | | |
| Description: <input type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # | | | | |
| REF NO.: | QUANTITY | UNIT OF MEASURE | UNIT PRICE | UNIT PRICE EXTENSION (Quantity times unit price) |
| | | | | |
| Description: <input type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # | | | | |
| REF NO.: | QUANTITY | UNIT OF MEASURE | UNIT PRICE | UNIT PRICE EXTENSION (Quantity times unit price) |
| | | | | |

Wording for "description" is to be provided by the Owner. All Quantities Estimated. The Contractor will be paid based upon actual quantities as verified by the Owner.

Begin @ Panels marked in field

| Item | Description | Length | Width | Quantity | Unit |
|--------|--|--------|-------|----------|----------|
| | <p>General Notes:</p> <ol style="list-style-type: none"> 1. Contractor shall field verify all quantities and measurements. 2. Contractor shall be responsible for locating and protecting all existing utilities. 3. Two-way traffic shall be maintained at all times during construction. Contractor shall have flagmen on both ends of work zone. If Police details are used for traffic control this does not take the place of flag men. 4. Construction work shall not begin until signs, barricades, project signs and other traffic devices have been erected and approved. Contractor shall maintain project and construction signs. 5. All existing sewer lines shall be tied-in at no direct pay. 6. Asphalt and concrete driveway tie-ins shall be tied in to existing surface material. 7. At all intersecting asphalt roads, contractor shall mill 1 ½" deep and 6' into intersecting road for a smooth and clean transition. See Detail attached with Bid Proposal. 8. Any additional work performed by the contractor without prior written approval from St Tammany Parish Department of Engineering, the cost of the work will be borne by the contractor and will not be reimbursed by the Parish. 9. Contractor shall ensure roadway and shoulders drain accordingly without any surface ponding/"bird baths" after rain events. 10. Materials Testing: All required testing and reporting shall be the contractor's responsibility at no direct pay. Sampling and Testing will be performed in accordance with the St. Tammany Parish Roadway Testing and Inspection Standards for Residential Subdivisions (Attached with Bid Proposal) and LADOTD Standard Specifications for Roads and Bridges, Latest Edition, Section 101 and 106. 11. Roads and surrounding areas shall be dressed after 3 calendar days and no later than 10 calendar days of final asphalt wearing course. Late Fee of \$1.00 per Linear Foot per Calendar Day shall be charged if not completed with the specified time frame. 12. If deep patching is required, the contractor is to compact at a minimum two equal lifts. | | | | |
| | <p>Project Summary: Contractor shall provide all labor, materials, equipment and supervision necessary to Remove, Replace and/or Repair Concrete Panels and Concrete Rollover Curbs.</p> | | | | |
| 727-01 | <p>Mobilization: All labor and materials necessary to accomplish preparatory work and operations, including those necessary for movement of personnel, equipment, supplies and incidentals to the project site.</p> | | | 1 | Lump Sum |

All Work Shall Conform to Louisiana Standard Specifications for Roads and Bridges, Latest Edition

Begin @ Panels marked in field

| Item | Description | Length | Width | Quantity | Unit |
|--------------|---|--------|-------|----------|-------------|
| 713-01 | <p>Temporary Signs and Barricades: All labor, materials, equipment and supervision necessary to furnish, install, maintain and remove temporary construction barricades, precast concrete barriers, lights, signals, pavement markings and signs, including project signs; providing flaggers; and complying with all other requirements regarding the protection of the work, workers and safety of the public. Unless otherwise noted in the plans or special provisions this work also includes traffic control management in compliance with contract documents and the Manual on Uniform Traffic Control Devices (MUTCD), including the installation, inspection, maintenance, and removal of all traffic control devices on the project. This item shall not be construed to relieve the contractor of responsibilities for the safety of the public, for liability in connection therewith, or compliance with State and local laws or ordinances. Signs, barricades, barriers, channelizing devices, pavement markings, etc., shall comply with plan details, the MUTCD and Section 713 of LADOTD Standard Specifications for Roads and Bridges, Latest Edition. Construction work shall not begin until signs, barricades, project signs and other traffic devices have been erected and approved.</p> | | | 1 | Lump Sum |
| 701-04-01000 | <p>Storm Drain Pipe (15" Equivalent RCPA): All labor, materials and equipment necessary to remove/replace 15" Equivalent RCPA. Item shall include all required saw-cutting, excavation, backfill material and embankment. Item shall include removal and replacement of all unsuitable material as identified by St. Tammany Parish Engineering Department personnel. All pipe joints shall be wrapped with suitable geotextile fabric. Contractor installed pipe shall be cleaned of all debris and other materials prior to final acceptance. Storm drain pipe installation shall be in accordance with Section 701 of LADOTD Standard Specifications.</p> | | | 72 | Linear Foot |
| 701-04-01020 | <p>Storm Drain Pipe (18" Equivalent RCPA): All labor, materials and equipment necessary to remove/replace 18" Equivalent RCPA. Item shall include all required saw-cutting, excavation, backfill material and embankment. Item shall include removal and replacement of all unsuitable material as identified by St. Tammany Parish Engineering Department personnel. All pipe joints shall be wrapped with suitable geotextile fabric. Contractor installed pipe shall be cleaned of all debris and other materials prior to final acceptance. Storm drain pipe installation shall be in accordance with Section 701 of LADOTD Standard Specifications.</p> | | | 100 | Linear Foot |
| 702-03-00600 | <p>Catch Basin (CB-06): All labor, materials, equipment and supervision necessary to furnish and install catch basin in accordance with LADOTD Standard Specifications for Roads and Bridges, Section 702, and in conformity with lines and grades shown on the plans. Shop drawings of precast catch basin structures shall be provided to St. Tammany Parish Department of Engineering and approved prior to installation. Catch Basin shall be pre-cast concrete or concrete formed in place only.</p> | | | 3 | Each |

All Work Shall Conform to Louisiana Standard Specifications for Roads and Bridges, Latest Edition

Begin @ Panels marked in field

| Item | Description | Length | Width | Quantity | Unit |
|--------------|--|--------|-------|----------|-------------|
| 715-01-00100 | Topsoil Shoulder Material: LA DOTD Standard Specification for Roads and Bridges, Section 401. All labor, materials and equipment necessary to furnish and place Topsoil as a surface course for shoulder material (Adjusted Vehicular Measurement). Contractor shall place specified shoulder material flush with the asphalt wearing surface course to a maximum of 12" wide. This material shall be graded uniformly throughout the project. Should any excess incidental construction material extend beyond the 12" maximum limit, the material shall be removed and properly disposed of off-site. The finished specified shoulder material shall not consist of any foreign material that is not contained with the parent material. | | | 2 | Cubic Yd. |
| 706-03-00500 | Remove/Replace/Repair Concrete Panels and Concrete Rollover Curb: All labor, materials, equipment and supervision necessary to, in accordance with these specifications, Remove/Replace/Repair Concrete Pavement Detail, Rollover Curb Detail and LA DOTD Standard Specifications for Roads and Bridges, Section 706 and Section 202.03(a), Latest Edition. Contractor shall be responsible for removal of concrete and all base materials to a depth of 8" below the bottom grade of the new 8" thick concrete panel. Replacement base material shall be River Sand or Pumped Sand. Base repair and/or patch is not limited to a square yardage quantity, but may include the entire panel if directed by Department of Public Works inspection staff. This item is at no direct pay. Prior to contractor pouring replacement concrete panel and rollover curb, base material shall be examined by project inspector. Contractor shall inspect the project site and bid accordingly. Panels identified for removal and replacement next to and/or adjacent to new panels shall be saw-cut along the adjoining edge. Any damage caused by contractor operations shall be repaired immediately at no direct pay. Replacement panels shall be Fiber reinforced, 4000psi, 8" thick concrete, with #9 x 18" smooth dowel bars into existing concrete pavement @ 18" on-center for butt/construction joints. Use #4 deformed bar for longitudinal joints 2' on center. When curbing is not poured monolithic, curb pins shall be added @ 18" on center. See Concrete Panel Replacement Detail and Rollover Curb Detail And fiber specification sheet. Joints shall be replaced in-kind, to include but not limited to expansion joints, control joints, etc., and sealed with approved joint sealing material. Broken concrete shall be removed and hauled to an area identified by project inspector at no direct pay. | | | 192 | Square Yard |
| 701-15-00100 | Concrete Collar: Pour concrete collar in place to ensure watertight fit from old pipe to new pipe. | | | 1 | Each |

All Work Shall Conform to Louisiana Standard Specifications for Roads and Bridges, Latest Edition

Begin @ Panels marked in field

| Item | Description | Length | Width | Quantity | Unit | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|-----------------|----------|--------------------------------|-----------------------|----------------------|----------------------|-----------------------------|-----------|------------------|-----------|-----------------|-----------------------|-----------------------------------|------------|--------------------------------|--|---------------------|---|--|--|--|--|
| | <p>FIBER-REINFORCED PORTLAND CEMENT CONCRETE ROADWAYS This item covers the furnishing of all materials and installation of PCC roadway pavements for thickness as shown.</p> <p><u>Mix for 1 C.Y. of Fiber-Reinforced Concrete – Sidewalks & Driveways</u></p> <table data-bbox="413 508 1408 849"> <tr> <td>28-day strength</td> <td>4000 psi</td> </tr> <tr> <td>Cement (ASTM C-150, Type I/II)</td> <td>4.64 sacks (436 lbs.)</td> </tr> <tr> <td>Fly Ash (ASTM C-618)</td> <td>1.16 sacks(109 lbs.)</td> </tr> <tr> <td>Gravel (ASTM C-33, Grade A)</td> <td>1775 lbs.</td> </tr> <tr> <td>Sand (ASTM C-33)</td> <td>1226 lbs.</td> </tr> <tr> <td>Water (potable)</td> <td>30 gallons (250 lbs.)</td> </tr> <tr> <td>Type A Water Reducer (ASTM C-494)</td> <td>16.35 lbs.</td> </tr> <tr> <td>Air entrainment specifications</td> <td>5% by volume, use per manufacturers specifications</td> </tr> <tr> <td>Fiber reinforcement</td> <td>1.5 lbs/ CY microfibers, as specified below</td> </tr> </table> <p>Fiber reinforcement for all concrete pavements shall be Matrix Monofilament Microfiber as manufactured by FRC Industries or approved equal, applied throughout the concrete mixture. Alternate products must be preapproved by the Parish Engineer in writing. Cellulose (treated or untreated), AR glass, nylon, and polyester fibers are specifically prohibited from use. Fibrillated and self-fibrillating fibers are also specifically prohibited.</p> <p>Fiber reinforcement shall be applied at the plant. The bags must be broken before mixing. Bag size shall be one (1) pound.</p> <p>Damaged, missing, and/ or new dowel bars (longitudinal/ transverse) and Starlugs shall be replaced, #9 x 18" painted smooth dowel bars on 18" centers shall be used unless directed otherwise by the Parish Engineer. The bars shall be drilled and doweled into the existing pavement by drilling 1½" holes to a depth of 9" and filling with an approved epoxy grout before insertion of the dowel bars. Any deformed bars for longitudinal joints or welded wire fabric will be incidental to the bid unit prices under this item. All costs incurred for this task will be incidental to bid unit prices under concrete paving. Bid prices shall also include adequate curing of the concrete placed and the proper sealing of contraction and expansion joints.</p> <p>The Contractor is advised that the work along roadways will necessarily be done with a split-paving method. It will be important to have at least one side of the roadway open to traffic when workers are not present.</p> | 28-day strength | 4000 psi | Cement (ASTM C-150, Type I/II) | 4.64 sacks (436 lbs.) | Fly Ash (ASTM C-618) | 1.16 sacks(109 lbs.) | Gravel (ASTM C-33, Grade A) | 1775 lbs. | Sand (ASTM C-33) | 1226 lbs. | Water (potable) | 30 gallons (250 lbs.) | Type A Water Reducer (ASTM C-494) | 16.35 lbs. | Air entrainment specifications | 5% by volume, use per manufacturers specifications | Fiber reinforcement | 1.5 lbs/ CY microfibers, as specified below | | | | |
| 28-day strength | 4000 psi | | | | | | | | | | | | | | | | | | | | | | |
| Cement (ASTM C-150, Type I/II) | 4.64 sacks (436 lbs.) | | | | | | | | | | | | | | | | | | | | | | |
| Fly Ash (ASTM C-618) | 1.16 sacks(109 lbs.) | | | | | | | | | | | | | | | | | | | | | | |
| Gravel (ASTM C-33, Grade A) | 1775 lbs. | | | | | | | | | | | | | | | | | | | | | | |
| Sand (ASTM C-33) | 1226 lbs. | | | | | | | | | | | | | | | | | | | | | | |
| Water (potable) | 30 gallons (250 lbs.) | | | | | | | | | | | | | | | | | | | | | | |
| Type A Water Reducer (ASTM C-494) | 16.35 lbs. | | | | | | | | | | | | | | | | | | | | | | |
| Air entrainment specifications | 5% by volume, use per manufacturers specifications | | | | | | | | | | | | | | | | | | | | | | |
| Fiber reinforcement | 1.5 lbs/ CY microfibers, as specified below | | | | | | | | | | | | | | | | | | | | | | |

All Work Shall Conform to Louisiana Standard Specifications for Roads and Bridges, Latest Edition

Begin @ Panels marked in field

| Item | Description | Length | Width | Quantity | Unit |
|------|-------------|--------|-------|----------|------|
|------|-------------|--------|-------|----------|------|

FIBER-REINFORCED PORTLAND CEMENT CONCRETE ROADWAYS

This item covers the furnishing of all materials and installation of PCC roadway pavements for thickness as shown.

Mix for 1 C.Y. of Fiber-Reinforced Concrete – Sidewalks & Driveways

| | |
|-----------------------------------|--|
| 28-day strength | 4000 psi |
| Cement (ASTM C-150, Type I/II) | 4.64 sacks (436 lbs.) |
| Fly Ash (ASTM C-618) | 1.16 sacks(109 lbs.) |
| Gravel (ASTM C-33, Grade A) | 1775 lbs. |
| Sand (ASTM C-33) | 1226 lbs. |
| Water (potable) | 30 gallons (250 lbs.) |
| Type A Water Reducer (ASTM C-494) | 16.35 lbs. |
| Air entrainment | 5% by volume, use per manufacturers specifications |
| Fiber reinforcement | 1.5 lbs/ CY microfibers, as specified below |

Fiber reinforcement for all concrete pavements shall be Matrix Monofilament Microfiber as manufactured by FRC Industries or approved equal, applied throughout the concrete mixture. Alternate products must be preapproved by the Parish Engineer in writing. Cellulose (treated or untreated), AR glass, nylon, and polyester fibers are specifically prohibited from use. Fibrillated and self-fibrillating fibers are also specifically prohibited.

Fiber reinforcement shall be applied **at the plant**. The bags must be broken before mixing. Bag size shall be one (1) pound.

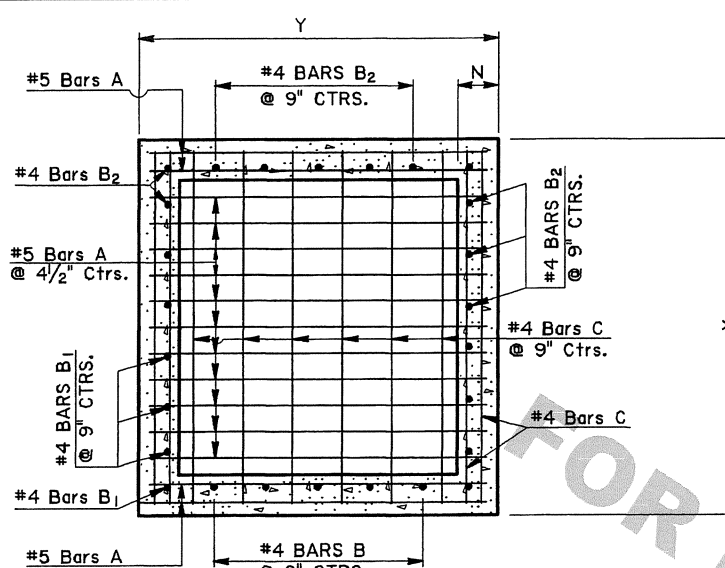
Damaged, missing, and/ or new dowel bars (longitudinal/ transverse) and Starlugs shall be replaced, #9 x 18" painted smooth dowel bars on 18" centers shall be used unless directed otherwise by the Parish Engineer. The bars shall be drilled and doweled into the existing pavement by drilling 1½" holes to a depth of 9" and filling with an approved epoxy grout before insertion of the dowel bars. Any deformed bars for longitudinal joints or welded wire fabric will be incidental to the bid unit prices under this item. All costs incurred for this task will be incidental to bid unit prices under concrete paving. Bid prices shall also include adequate curing of the concrete placed and the proper sealing of contraction and expansion joints.

The Contractor is advised that the work along roadways will necessarily be done with a split-paving method. It will be important to have at least one side of the roadway open to traffic when workers are not present. Bid prices should include all costs for labor, equipment, and materials necessary to provide finished Portland Cement Concrete paving, in place, as described under this item of the proposal. All required jointing materials should be included in price bid under each item. Method of jointing shall be the same as the existing joints in the area of work.

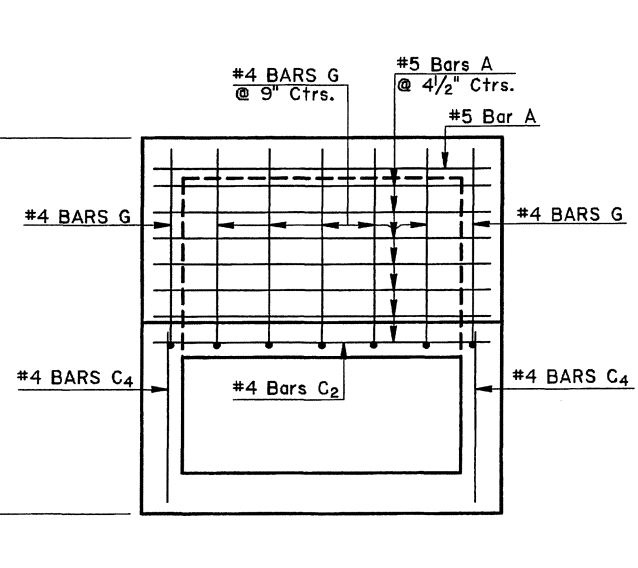
Bid prices under this item shall also include cost of providing engineering/ surveying for alignment, grade, profile, survey stakes, and topography when necessary and as required to improve the roadway alignment, curb and gutter layout, drain line installation, etc. This includes new road, extension of existing road, and turning lanes, parking lots, bike, and walking trails, etc. All layouts shall be the responsibility of the contractor. The Contractor shall be responsible for disposal of all construction materials.

Concrete pavement shall be cured seven (7) days unless otherwise approved by the Parish Engineer. Contractor may use "high early" strength concrete (3-day curing period) at his discretion, with the approval of the Construction Manager at no additional cost. Contractor shall be responsible for proper oversight and protection of the pavement during the initial curing time until the concrete is sufficiently set to resist marring or vandalism.

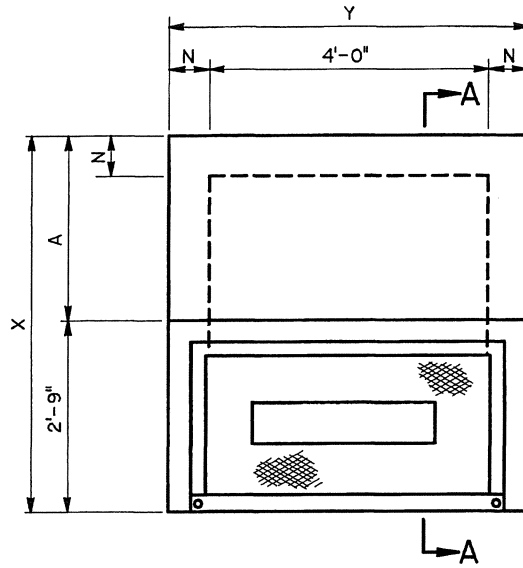
All Work Shall Conform to Louisiana Standard Specifications for Roads and Bridges, Latest Edition



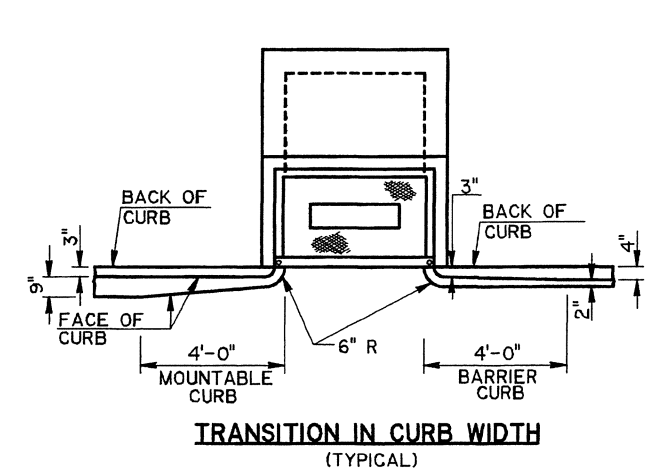
SECTION SHOWING BOTTOM SLAB REINFORCING STEEL



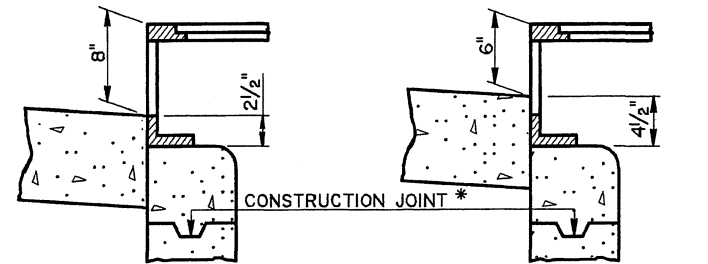
PLAN SHOWING TOP SLAB REINFORCING STEEL



PLAN FOR DETAILS OF METAL GRATE AND COVER, SEE STD. PLAN MC-01, TYPE "H".



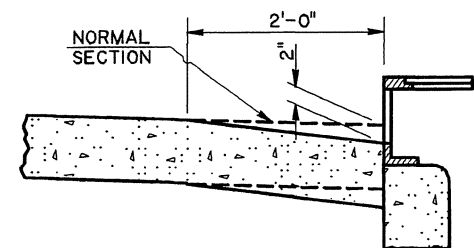
TRANSITION IN CURB WIDTH (TYPICAL)



INLET CONFIGURATION

WHEN USED WITH 6" BARRIER CURB WHEN USED WITH 4" MOUNTABLE CURB

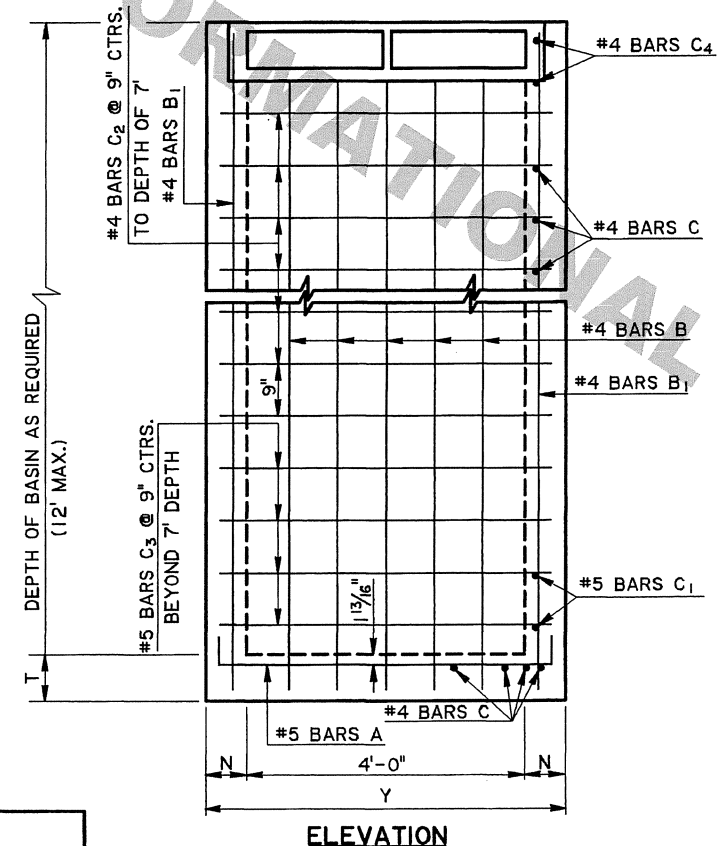
*NOTE: THE BASIN SHALL NOT BE CONSTRUCTED ABOVE BOTTOM OF PAVEMENT ELEVATION UNTIL THE PAVING ADJACENT TO THE BASIN IS IN PLACE.



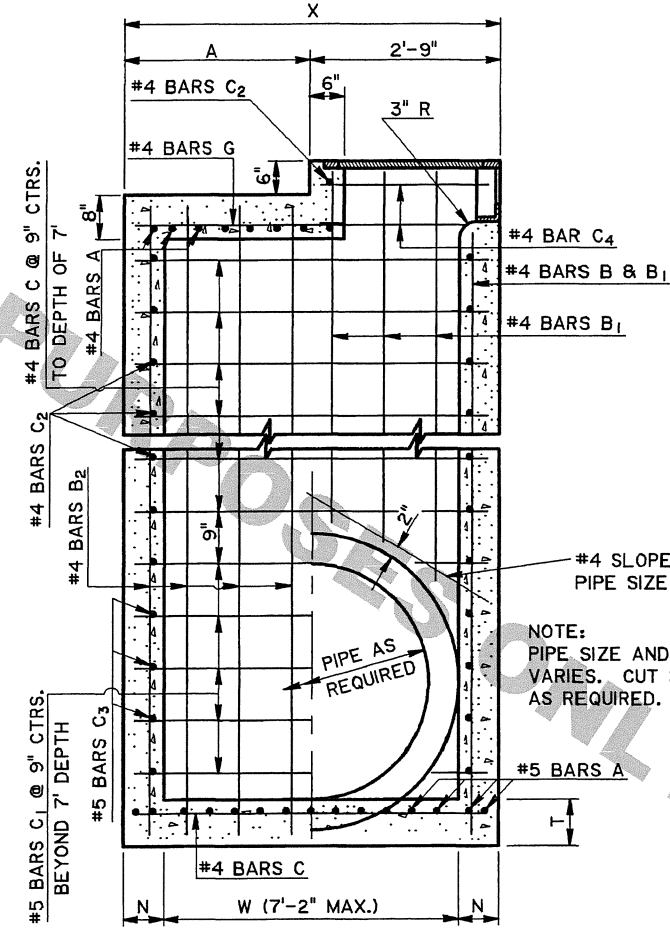
SECTION SHOWING PAVEMENT SUMP TYPICAL

| CONCRETE CATCH BASIN | | | | | | | | | | | |
|----------------------|-------|----|--------------------|-------|----|-------|----------------------|-------|----|-------|--|
| PIPE DIA. ① | W ② | T | DEPTH LESS THAN 8' | | | | DEPTH FROM 8' TO 12' | | | | |
| | | | X | Y | N | A | X | Y | N | A | |
| In | Ft-In | In | Ft-In | Ft-In | In | Ft-In | Ft-In | Ft-In | In | Ft-In | |
| 15 to 24 | 2-6 | 8 | 3-8 | 5-2 | 7 | 0-11 | 3-10 | 5-4 | 8 | 1-1 | |
| 30 | 3-1 | 8 | 4-3 | 5-2 | 7 | 1-6 | 4-5 | 5-4 | 8 | 1-8 | |
| 36 | 3-8 | 8 | 4-10 | 5-2 | 7 | 2-1 | 5-0 | 5-4 | 8 | 2-3 | |
| 42 | 4-3 | 8 | 5-5 | 5-2 | 7 | 2-8 | 5-7 | 5-4 | 8 | 2-10 | |
| 48 | 4-10 | 8 | 6-0 | 5-2 | 7 | 3-3 | 6-2 | 5-4 | 8 | 3-5 | |
| 54 | 5-5 | 9 | 6-7 | 5-2 | 7 | 3-10 | 6-9 | 5-4 | 8 | 4-0 | |
| 60 | 6-0 | 9 | 7-2 | 5-2 | 7 | 4-5 | 7-4 | 5-4 | 8 | 4-7 | |
| 72 | 7-2 | 9 | 8-4 | 5-2 | 7 | 5-7 | 8-6 | 5-4 | 8 | 5-9 | |

① REFERS TO SIDEWALL PIPE OR "TRUNKLINE". FRONTWALL OR "CROSSING PIPE" MAY NOT EXCEED 42".
 ② W AND X DIMENSIONS MAY BE VARIED FOR SKEWED PIPE, BUT W SHALL NOT EXCEED 7'-2".

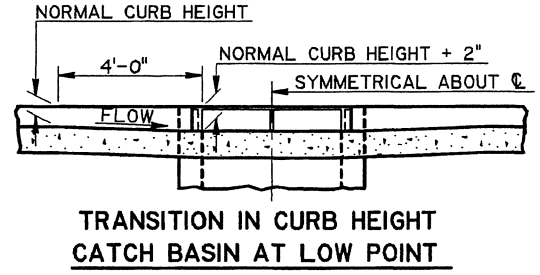


ELEVATION

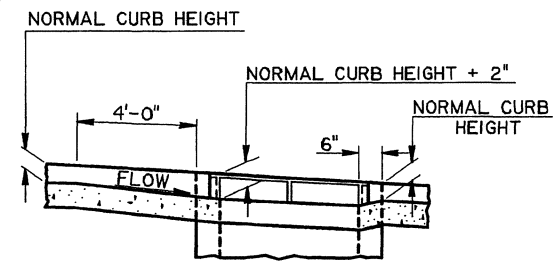


SECTION A-A

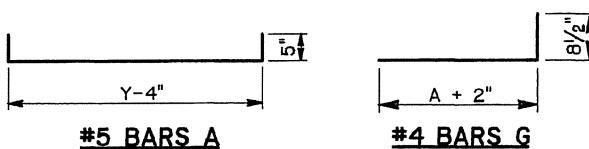
NOTE: PIPE SIZE AND LOCATION VARIES. CUT STEEL TO CLEAR AS REQUIRED.



TRANSITION IN CURB HEIGHT CATCH BASIN AT LOW POINT



TRANSITION IN CURB HEIGHT CATCH BASIN ON A GRADE



| | | | | | | | |
|---|-----------------|----------|---------|------|---------|---------|--|
| SHEET NUMBER | PARISH | DESIGNED | CDJ | DATE | 11-2-00 | PROJECT | Converted Metric CB-06M to English CB-06 |
| | FEDERAL PROJECT | CHECKED | HJB | DATE | 1-31-97 | PROJECT | REVISION DESCRIPTION |
| | STATE PROJECT | DATE | 1-31-97 | DATE | 11-2-00 | PROJECT | REVISION DESCRIPTION |
| | PROJECT | DATE | 11-2-00 | DATE | 11-2-00 | PROJECT | REVISION DESCRIPTION |
| APPROVED BY: <i>[Signature]</i> CHIEF ENGINEER: <i>[Signature]</i> | | | | | | | |
| CONCRETE CATCH BASIN CURB OPENING 4" MOUNTABLE OR 6" BARRIER CURB MAX. PIPES: 42" X 72", MAX. DEPTH: 12' STANDARD PLAN CB-06 | | | | | | | |
| HYDRAULICS SECTION | | | | | | | |