

# NOTIFICATION OF ADDENDUM

## ADDENDUM NO. 1

**DATED 2/25/2015**

|                |                        |
|----------------|------------------------|
| <b>Control</b> | <b>6283-40-001</b>     |
| <b>Project</b> | <b>RMC - 628340001</b> |
| <b>Highway</b> | <b>IH0010</b>          |
| <b>County</b>  | <b>BEXAR</b>           |

Ladies/Gentlemen:

Attached please find an addendum on the above captioned project. Included in the attachment is an addendum notification which details the changes and the respective proposal pages which were added and/or changed.

Except for new bid insert pages, it is unnecessary to return any of the pages attached.

Bid insert pages must be returned with the bid proposal submitted to the Department, unless your firm is submitting a bid using a computer print out. The computer print out must be changed to reflect the new bid item information.

Contractors and material suppliers, etc. who have previously been furnished informational proposals are not being furnished a copy of the addendum. If you have a subcontractor on the above project, please advise them of this addendum. Acknowledgment of this addendum is not requested if your company has been issued a proposal stamped "This Proposal Issued for Informational Purposes."

You are required to acknowledge receipt of this addendum on the Addendum Acknowledgement form contained in your bid proposal by placing a mark in the box next to the respective addendum.

Failure to Acknowledge receipt of this addendum in your bid proposal will result in your bid not being read.

SUBJECT: PLANS AND PROPOSAL ADDENDUMS

PROJECT: RMC - 628340001

CONTROL: 6283-40-001

COUNTY: BEXAR

LETTING: 03/06/2015

REFERENCE NO: 0225

**PROPOSAL ADDENDUMS**

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\_ PROPOSAL COVER

X BID INSERTS (SH. NO.: SHEETS 2-9 & 4-9 THRU 8-9. )

X GENERAL NOTES (SH. NO.: ALL )

\_ SPEC LIST (SH. NO.: )

\_ SPECIAL PROVISIONS: )

ADDED:

DELETED:

\_ SPECIAL SPECIFICATIONS:

ADDED:

DELETED:

\_ OTHER:

DESCRIPTION OF ABOVE CHANGES  
(INCLUDING PLANS SHEET CHANGES)

REVISED BID ITEM QUANTITIES FOR:

542-6002, 770-6001, 770-6008, 770-6010, 770-6017, 770-6021, 770-6022,  
770-6029, 771-6001, 771-6007, 772-6005, 772-6009, 774-6006, 774-6028,  
774-6029, 774-6045 & 774-6048.

ADDED BID ITEM: 550-6007.

REVISED GENERAL NOTES.

| ALT | ITEM-CODE  |              |             | UNIT BID PRICE ONLY.<br>WRITTEN IN WORDS                                      | UNIT | APPROX<br>QUANTITIES | DEPT<br>USE<br>ONLY |
|-----|------------|--------------|-------------|---|------|----------------------|---------------------|
|     | ITEM<br>NO | DESC<br>CODE | S.P.<br>NO. |   |      |                      |                     |
|     | 429        | 6007         |             | CONC STR REPAIR (VERTICAL & OVER-<br>HEAD)<br><br>and<br><br>DOLLARS<br>CENTS | SF   | 25.000               | 1                   |
|     | 432        | 6006         |             | RIPRAP (CONC)(CL B)<br><br>and<br><br>DOLLARS<br>CENTS                        | CY   | 50.000               | 2                   |
|     | 432        | 6045         |             | RIPRAP (MOW STRIP)(4 IN)<br><br>and<br><br>DOLLARS<br>CENTS                   | CY   | 5.000                | 3                   |
|     | 432        | 6046         |             | RIPRAP (MOW STRIP)(5 IN)<br><br>and<br><br>DOLLARS<br>CENTS                   | CY   | 5.000                | 4                   |
|     | 529        | 6002         |             | CONC CURB (TY II)<br><br>and<br><br>DOLLARS<br>CENTS                          | LF   | 100.000              | 5                   |
|     | 531        | 6001         |             | CONC SIDEWALKS (4")<br><br>and<br><br>DOLLARS<br>CENTS                        | SY   | 25.000               | 6                   |
|     | 540        | 6001         |             | MTL W-BEAM GD FEN (TIM POST)<br><br>and<br><br>DOLLARS<br>CENTS               | LF   | 100.000              | 7                   |
|     | 540        | 6002         |             | MTL W-BEAM GD FEN (STEEL POST)<br><br>and<br><br>DOLLARS<br>CENTS             | LF   | 100.000              | 8                   |
|     | 540        | 6003         |             | MTL THRIE-BEAM GD FEN (TIM POST)<br><br>and<br><br>DOLLARS<br>CENTS           | LF   | 100.000              | 9                   |
|     | 540        | 6005         |             | TERMINAL ANCHOR SECTION<br><br>and<br><br>DOLLARS<br>CENTS                    | EA   | 10.000               | 10                  |

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|-----|------------|--------------|-------------|--|------|----------------------|---------------------|
|     | ITEM<br>NO | DESC<br>CODE | S.P.<br>NO. |  |      |                      |                     |
|     | 540        | 6016         |             | DOWNSTREAM ANCHOR TERMINAL SEC-<br>TION<br><br>DOLLARS<br>CENTS<br>and | EA   | 3.000                | 11                  |
|     | 542        | 6001         |             | REMOVE METAL BEAM GUARD FENCE<br>DOLLARS<br>CENTS<br>and               | LF   | 10.000               | 12                  |
|     | 542        | 6002         |             | REMOVE TERMINAL ANCHOR SECTION<br>DOLLARS<br>CENTS<br>and              | EA   | 10.000               | 13                  |
|     | 544        | 6001         |             | GUARDRAIL END TREATMENT (INSTALL)<br>DOLLARS<br>CENTS<br>and           | EA   | 10.000               | 14                  |
|     | 544        | 6003         |             | GUARDRAIL END TREATMENT (REMOVE)<br>DOLLARS<br>CENTS<br>and            | EA   | 10.000               | 15                  |
|     | 550        | 6001         |             | CHAIN LINK FENCE (INSTALL) (6')<br>DOLLARS<br>CENTS<br>and             | LF   | 100.000              | 16                  |
|     | 550        | 6002         |             | CHAIN LINK FENCE (REPAIR) (6')<br>DOLLARS<br>CENTS<br>and              | LF   | 200.000              | 17                  |
|     | 550        | 6003         |             | CHAIN LINK FENCE (REMOVE)<br>DOLLARS<br>CENTS<br>and                   | LF   | 100.000              | 18                  |
|     | 550        | 6007         |             | CHAIN LINK FENCE (REPAIR) (4')<br>DOLLARS<br>CENTS<br>and              | LF   | 200.000              | 19                  |
|     | 658        | 6039         |             | INSTL DEL ASSM (D-DW)SZ 1(FLX)GF2<br>DOLLARS<br>CENTS<br>and           | EA   | 200.000              | 20                  |

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|     | ITEM<br>NO | DESC<br>CODE | S.P.<br>NO. |   |      |                      |                     |
|     | 658        | 6043         |             | INSTL DEL ASSM (D-DY)SZ 1(F LX)GF2<br>DOLLARS<br>and<br>CENTS           | EA   | 200.000              | 21                  |
|     | 658        | 6060         |             | REMOVE DELIN & OBJECT MARKER ASSMS<br>DOLLARS<br>and<br>CENTS           | EA   | 100.000              | 22                  |
|     | 730        | 6001         |             | STRIP MOWING<br>DOLLARS<br>and<br>CENTS                                 | AC   | 9,514.000            | 23                  |
|     | 730        | 6002         |             | FULL - WIDTH MOWING<br>DOLLARS<br>and<br>CENTS                          | AC   | 27,072.000           | 24                  |
|     | 730        | 6003         |             | SPOT MOWING<br>DOLLARS<br>and<br>CENTS                                  | AC   | 200.000              | 25                  |
|     | 734        | 6001         |             | LITTER REMOVAL<br>DOLLARS<br>and<br>CENTS                               | AC   | 171,096.000          | 26                  |
|     | 734        | 6003         |             | LITTER REMOVAL (SPOT)<br>DOLLARS<br>and<br>CENTS                        | AC   | 50.000               | 27                  |
|     | 735        | 6002         |             | DEBRIS REMOVAL (CNTR MEDIANS/MAIN-<br>LANES)<br>DOLLARS<br>and<br>CENTS | MI   | 477.600              | 28                  |
|     | 738        | 6002         |             | CLEANING / SWEEPING (CENTER MEDIAN)<br>DOLLARS<br>and<br>CENTS          | MI   | 1,501.200            | 29                  |
|     | 738        | 6004         |             | CLEANING / SWEEPING (OUTSIDE MAIN<br>LANE)<br>DOLLARS<br>and<br>CENTS   | MI   | 1,501.200            | 30                  |

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|     | ITEM<br>NO | DESC<br>CODE | S.P.<br>NO. |   |      |                      |                     |
|     | 738        | 6006         |             | CLEANING / SWEEPING (FRONTAGE ROAD)<br>DOLLARS<br>and<br>CENTS        | MI   | 1,203.600            | 31                  |
|     | 738        | 6008         |             | CLEANING / SWEEPING(ENTRANCE/EXIT<br>RAMP)<br>DOLLARS<br>and<br>CENTS | MI   | 1,444.800            | 32                  |
|     | 738        | 6009         |             | CLEANING / SWEEPING (AGGREGATE<br>REMOVAL)<br>DOLLARS<br>and<br>CENTS | MI   | 100.000              | 33                  |
|     | 738        | 6010         |             | CLEANING / SWEEPING (SPOT)<br>DOLLARS<br>and<br>CENTS                 | MI   | 40.000               | 34                  |
|     | 752        | 6022         |             | TREE TRIMMING AND BRUSH REMOVAL<br>DOLLARS<br>and<br>CENTS            | LF   | 5,000.000            | 35                  |
|     | 764        | 6001         |             | DRAIN INLET CLEANING<br>DOLLARS<br>and<br>CENTS                       | EA   | 20.000               | 36                  |
|     | 764        | 6002         |             | PUMP STATION WELL CLEANING<br>DOLLARS<br>and<br>CENTS                 | EA   | 20.000               | 37                  |
|     | 764        | 6003         |             | BASKET AND INLET PIPE CLEANING<br>DOLLARS<br>and<br>CENTS             | EA   | 20.000               | 38                  |
|     | 764        | 6004         |             | DOWNSPOUT CLEANING<br>DOLLARS<br>and<br>CENTS                         | EA   | 20.000               | 39                  |
|     | 770        | 6001         |             | REPAIR RAIL ELEMENT (W - BEAM)<br>DOLLARS<br>and<br>CENTS             | LF   | 25,000.000           | 40                  |

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|     | ITEM<br>NO | DESC<br>CODE | S.P.<br>NO. |  |      |                      |                     |
|     | 770        | 6002         |             | REPAIR RAIL ELEMENT (THRIE - BEAM)<br>DOLLARS<br>and<br>CENTS          | LF   | 200.000              | 41                  |
|     | 770        | 6003         |             | REP RAIL ELMNT(THRIE-BM TRANS TO W -<br>BM)<br>DOLLARS<br>and<br>CENTS | LF   | 240.000              | 42                  |
|     | 770        | 6008         |             | REALIGN EXISTING RAIL<br>DOLLARS<br>and<br>CENTS                       | LF   | 2,000.000            | 43                  |
|     | 770        | 6010         |             | REM / REPL TIMBER/STL POST W/O CONC<br>FND<br>DOLLARS<br>and<br>CENTS  | EA   | 1,500.000            | 44                  |
|     | 770        | 6011         |             | REM / REPL TIMBER / STL POST W/CONC<br>FND<br>DOLLARS<br>and<br>CENTS  | EA   | 25.000               | 45                  |
|     | 770        | 6016         |             | REPAIR STEEL POST WITH BASE PLATE<br>DOLLARS<br>and<br>CENTS           | EA   | 10.000               | 46                  |
|     | 770        | 6017         |             | REALIGN POSTS<br>DOLLARS<br>and<br>CENTS                               | EA   | 2,000.000            | 47                  |
|     | 770        | 6021         |             | REPLACE SINGLE GDRAIL TERMINAL RAIL<br>DOLLARS<br>and<br>CENTS         | LF   | 3,000.000            | 48                  |
|     | 770        | 6022         |             | REPLACE SINGLE GDRAIL TERMINAL POST<br>DOLLARS<br>and<br>CENTS         | EA   | 1,000.000            | 49                  |
|     | 770        | 6023         |             | REPAIR OF TERMINAL ANCHORS POSTS<br>DOLLARS<br>and<br>CENTS            | EA   | 5.000                | 50                  |

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|     | ITEM<br>NO | DESC<br>CODE | S.P.<br>NO. |  |      |                      |                     |
|     | 770        | 6024         |             | REPLACE TERMINAL ANCHOR POSTS<br>DOLLARS<br>and<br>CENTS           | EA   | 5.000                | 51                  |
|     | 770        | 6027         |             | REMOVE GDRAIL END TRT / REPL WITH SGT<br>DOLLARS<br>and<br>CENTS   | EA   | 20.000               | 52                  |
|     | 770        | 6028         |             | REPL SINGLE GDRAIL TERM IMPACT HEAD<br>DOLLARS<br>and<br>CENTS     | EA   | 25.000               | 53                  |
|     | 770        | 6029         |             | REM & RESET SGT IMPACT HEAD<br>DOLLARS<br>and<br>CENTS             | EA   | 100.000              | 54                  |
|     | 771        | 6001         |             | REPLACE POSTS (TL-3)<br>DOLLARS<br>and<br>CENTS                    | EA   | 500.000              | 55                  |
|     | 771        | 6003         |             | CABLE SPLICE / TURNBUCKLE (TL-3)<br>DOLLARS<br>and<br>CENTS        | EA   | 5.000                | 56                  |
|     | 771        | 6005         |             | REPAIR CONCRETE FOUNDATION (TL-3)<br>DOLLARS<br>and<br>CENTS       | EA   | 5.000                | 57                  |
|     | 771        | 6007         |             | REPR OR REPLC CABLE BARR TERM SEC(TL-3)<br>DOLLARS<br>and<br>CENTS | EA   | 50.000               | 58                  |
|     | 771        | 6009         |             | REPLACE CABLE (TL-3)<br>DOLLARS<br>and<br>CENTS                    | LF   | 100.000              | 59                  |
|     | 772        | 6001         |             | POST AND CABLE FENCE (REMOVAL)<br>DOLLARS<br>and<br>CENTS          | LF   | 50.000               | 60                  |

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|     | ITEM<br>NO | DESC<br>CODE | S.P.<br>NO. |   |      |                      |                     |
|     | 772        | 6002         |             | POST AND CABLE FENCE (REMV CONC<br>ANCHOR)<br><br>and<br><br>DOLLARS<br>CENTS   | EA   | 4.000                | 61                  |
|     | 772        | 6003         |             | POST AND CABLE FENCE (NEW INSTALLA-<br>TION)<br><br>and<br><br>DOLLARS<br>CENTS | LF   | 200.000              | 62                  |
|     | 772        | 6004         |             | POST AND CABLE FENCE (NEW CONC<br>ANCHOR)<br><br>and<br><br>DOLLARS<br>CENTS    | EA   | 4.000                | 63                  |
|     | 772        | 6005         |             | POST AND CABLE FENCE(REMV / REPL<br>POSTS)<br><br>and<br><br>DOLLARS<br>CENTS   | EA   | 100.000              | 64                  |
|     | 772        | 6006         |             | POST AND CABLE FENCE(RMV/REPL CNC<br>ANCH)<br><br>and<br><br>DOLLARS<br>CENTS   | EA   | 4.000                | 65                  |
|     | 772        | 6007         |             | POST AND CABLE FENCE (REMV/ REPL<br>CABLE)<br><br>and<br><br>DOLLARS<br>CENTS   | LF   | 200.000              | 66                  |
|     | 772        | 6009         |             | POST AND CABLE FENCE (REPAIR)<br><br>and<br><br>DOLLARS<br>CENTS                | LF   | 2,500.000            | 67                  |
|     | 774        | 6006         |             | REPAIR (TRACC)<br><br>and<br><br>DOLLARS<br>CENTS                               | EA   | 5.000                | 68                  |
|     | 774        | 6010         |             | REPAIR (REACT)<br><br>and<br><br>DOLLARS<br>CENTS                               | EA   | 2.000                | 69                  |

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|     | ITEM<br>NO | DESC<br>CODE | S.P.<br>NO. |   |      |                      |                     |
|     | 774        | 6014         |             | REMOVE AND REPLACE (NARROW QUAD)<br>DOLLARS<br>and<br>CENTS | EA   | 1.000                | 70                  |
|     | 774        | 6018         |             | REPAIR (CATGR - FRONT SECTION)<br>DOLLARS<br>and<br>CENTS   | EA   | 1.000                | 71                  |
|     | 774        | 6019         |             | REPAIR (CATGR - END SECTION)<br>DOLLARS<br>and<br>CENTS     | EA   | 1.000                | 72                  |
|     | 774        | 6027         |             | REPAIR REACT (N) (CYLINDERS)<br>DOLLARS<br>and<br>CENTS     | EA   | 2.000                | 73                  |
|     | 774        | 6028         |             | REPAIR (QUAD) (N) (BAY)<br>DOLLARS<br>and<br>CENTS          | EA   | 50.000               | 74                  |
|     | 774        | 6029         |             | REPAIR (QUAD) (W) (BAY)<br>DOLLARS<br>and<br>CENTS          | EA   | 4.000                | 75                  |
|     | 774        | 6038         |             | REMOVE AND REPLACE (FASTRACC)<br>DOLLARS<br>and<br>CENTS    | EA   | 2.000                | 76                  |
|     | 774        | 6044         |             | REMOVE AND REPLACE (SMTC) (N)<br>DOLLARS<br>and<br>CENTS    | EA   | 1.000                | 77                  |
|     | 774        | 6045         |             | REPAIR (SMTC) (N)<br>DOLLARS<br>and<br>CENTS                | EA   | 8.000                | 78                  |
|     | 774        | 6046         |             | REMOVE AND REPLACE (SMTC) (W)<br>DOLLARS<br>and<br>CENTS    | EA   | 1.000                | 79                  |
|     | 774        | 6047         |             | REPAIR (SMTC) (W)<br>DOLLARS<br>and<br>CENTS                | EA   | 2.000                | 80                  |

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|     | ITEM<br>NO | DESC<br>CODE | S.P.<br>NO. |  |      |                      |                     |
|     | 774        | 6048         |             | REPAIR (VIA -SAND FILL PLASTIC BARRELS)<br>DOLLARS<br>and<br>CENTS     | EA   | 400.000              | 81                  |
|     | 778        | 6001         |             | CONCRETE RAIL REPAIR (IN-KIND)<br>DOLLARS<br>and<br>CENTS              | LF   | 50.000               | 82                  |
|     | 7013       | 6001         |             | VACUUM CLEAN DRAIN INLETS AND RACE-<br>WAYS<br>DOLLARS<br>and<br>CENTS | CYC  | 8.000                | 83                  |
|     | 7014       | 6001         |             | SITE INSPECTION AND CLEANING<br>DOLLARS<br>and<br>CENTS                | EA   | 800.000              | 84                  |
|     | 7014       | 6002         |             | TRASH, DEBRIS, AND SEDIMENT REMOVAL<br>DOLLARS<br>and<br>CENTS         | CYC  | 200.000              | 85                  |
|     | 7014       | 6003         |             | REPLACING FILTER CARTRIDGES<br>DOLLARS<br>and<br>CENTS                 | EA   | 9,000.000            | 86                  |
|     | 7014       | 6004         |             | ROTATION OF FILTER CARTRIDGES<br>DOLLARS<br>and<br>CENTS               | EA   | 5,000.000            | 87                  |
|     | 7014       | 6005         |             | MOWING AND TRIMMING<br>DOLLARS<br>and<br>CENTS                         | CYC  | 80.000               | 88                  |
|     | 7014       | 6006         |             | REPLACE BLADDER VALVE<br>DOLLARS<br>and<br>CENTS                       | EA   | 30.000               | 89                  |
|     | 7014       | 6007         |             | REPLACE BATTERY<br>DOLLARS<br>and<br>CENTS                             | EA   | 250.000              | 90                  |

**Project Number:** RMC 6283-40-001

**Highway:** Various

**County:** Bexar

**Control:** 6283-40-001

### **General Notes**

**TxDOT Project Engineer** – The project will be managed by:

Amelia De La Garza, PE  
9320 SE Loop 410  
San Antonio, TX 78223  
Phone: (210) 633-1401  
e-mail: Amelia.DeLaGarza@txdot.gov

This project consists of mowing highway right of way, litter pickup, debris removal, sweeping, and guardrail, attenuator, post and cable fence, chain link fence repair, debris removal, cable barrier system repair, and cleaning pump house wells, drain inlets and raceways, bridge joints, and storm sewers in Bexar County.

Each contract awarded by the Department stands on its own and as such, is separate from other contracts. A contractor awarded multiple contracts, must be capable and sufficiently staffed to concurrently process any or all contracts at the same time.

Provide and maintain an e-mail address for receipt of work order and correspondence throughout the term of this contract. Respond to any correspondence within 24 hours to confirm receipt.

Notify the appropriate inspector by telephone each morning by 8:15 AM for any daytime or nighttime operations that is scheduled, with work location and time of arrival or reason for not working that day.

Remove materials or debris within the construction limits not incorporated in the project.

There are locations within the contract limits that are under construction by other contractors. Work may be performed in these areas as directed by the Engineer and will be paid for in accordance with the contract items. If this construction prevents any item of work from being performed, payment of the work quantities due to the contractor will be reduced to the percent of work actually completed. When construction is completed and work on this contract can be resumed, payment will be made according to the actual amount of work performed.

All work for guardrail, delineation, attenuator, post and cable fence, chain link fence, concrete rail/concrete barrier, cable barrier repair, concrete riprap repair, concrete curb repair, concrete sidewalk repair and mowing is callout work and a written work order will be issued as work is needed. A work order will consist of the location of each repair, the bid items for the repairs and the approximate quantity of work to be paid. Work orders will not include a list of required materials for the repairs. Any additional work performed not specified in the work order will require prior approval.

When notified by work order of emergency repair, begin physical work within 48 hours of notification and complete within 96 hours, unless otherwise approved.

Liquidated Damages will be assessed under the following circumstances (for guardrail repair, delineation, attenuator repair, post and cable fence repair, chain link fence repair, concrete rail/concrete barrier repair, concrete riprap repair, concrete curb repair, sidewalk repair and cable barrier repair):

**Project Number:** RMC 6283-40-001

**Highway:** Various

**County:** Bexar

**Control:** 6283-40-001

**Emergency Repairs** – If the emergency repairs on a work order are not completed within 96 hours.

**Non-Emergency Repairs** – If the repairs are not completed within 30 calendar days from the date of the work order.

TXDOT will provide completion forms for the contractor to document work at each location. These completion forms must be turned in each day that work is completed so that final inspection of each location can be performed. It is the responsibility of the contractor to submit these completion forms for payment purposes. Payment for a location will not be made without the submission of these completion forms.

## **Item 2 “Instructions to Bidders”**

This project includes plan sheets that are not part of the bid proposal.

View plans on-line or download from the web at:

<http://www.dot.state.tx.us/business/plansonline/plansonline.htm>.

Order plans from any of the plan reproduction companies shown on the web at:

<http://www.dot.state.tx.us/gsd/plans/companies.htm> .

## **Item 6 “Control of Materials”**

Provide all materials for this project. Provide new materials unless otherwise shown on the plans.

All salvageable material obtained after a repair is complete will become the property of the contractor.

## **Item 8 “Prosecution and Progress”**

Between April 1st and October 31st the Texas Commission on Environmental Quality (TCEQ), is monitoring weather conditions on a daily basis in the San Antonio area to forecast the probability of ozone formation. In the event weather conditions indicate that excessive ozone may occur, the National Weather Service working with the TCEQ will issue an Air Quality Health Alert Day for the following day. TCEQ estimates that approximately 25 Air Quality Health Alert Days might be issued during the ozone formation season.

On Air Quality Health Alert Days, lane closures and the use of small gasoline engines will not be allowed until after 12 noon on all highways inside Loop 1604. The State will notify the Contractor by 4:00 p.m. of the day before the Air Quality Health Alert Day to inform them of the restrictions for the following day and to request their assistance in reducing any other operations that may contribute to an increase in the ozone readings. If these restrictions affect the critical items of work previously scheduled by the Contractor, a working day will not be charged. Time charges on these days will be as determined by the Engineer for each day.

Working days will be computed and charged in accordance with Item 8.3.1.5, Calendar Day Workweek. No work will be performed on Saturdays, Sundays, national or state holidays unless otherwise shown on the plans or approved.

**Project Number:** RMC 6283-40-001

**Highway:** Various

**County:** Bexar

**Control:** 6283-40-001

Working hours for guardrail, attenuator, post and cable fence, chain link fence, cable barrier, litter, concrete rail/concrete barrier repairs, and pumphouses will be 9:00 AM through 4:00 PM. Working hours for mowing will be daylight hours. Working hours for sweeping, drain cleaning, bridge joint cleaning, and storm sewer cleaning will be 9:00 PM through 5:00 AM Sunday night through Friday morning.

**Item 429 “Concrete Structure Repair”**

This item is intended for repairing wingwall/retaining wall damage as necessary when performing repairs to concrete rail (Item 778).

**Item 432 “Riprap”**

Mow strips will be reinforced concrete. Install mow strips in accordance with the plans.

Toe walls will be required for placing of riprap as directed by the Engineer. Reinforcing steel bars will be number 4 bars. Dimensions of toe walls will be 8” wide and 12” depth as directed by the Engineer.

**Item 502 “Barricades, Signs, and Traffic Handling”**

Furnish and install all signs, barricades and other incidentals necessary for proper traffic control, in accordance with part VI of the “Texas Manual on Uniform Traffic Control Devices for Streets and Highways” and in accordance with the standard plan sheets. Additional devices may be needed to supplement these requirements. All warning signs shall be factory made and in satisfactory condition.

The signs and traffic control devices shown are minimum requirements. Additional signs and devices may be required to address existing conditions. Traffic control (all signs and devices) will be subsidiary to the various bid items.

Mount signs on a portable support. Move signs as necessary to maintain the same relative spacing between the signs and the work area as work progresses along the roadway. Place signs as indicated on RS-TCP-05 (for mowing, litter pickup, sweeping, post and cable fence repair, chain link fence repair, cable barrier system repair, and cleaning pump house wells work).

For mowing operations, furnish and install “MOWERS AHEAD” signs with flags in accordance with DMS 8310 “Flexible Roll-Up Reflective Signs”.

For litter removal operations, furnish and install “LITTER PICKUP AHEAD” head signs with flags in accordance with DMS 8310 “Flexible Roll-Up Reflective Signs”.

For debris removal operations, furnish and install “DEBRIS REMOVAL AHEAD” signs with flags in accordance with DMS 8310 “Flexible Roll-Up Reflective Signs”.

For Sweeping operations, furnish and install “SWEEPERS AHEAD” signs with flags in accordance with DMS 8310 “Flexible Roll-Up Reflective Signs”.

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For Guardrail, Attenuator, Chain Link Fence, Post and Cable Fence, Concrete Rail/Concrete Barrier Repair, Pumphouse Cleaning, Drain Cleaning, Joint Cleaning operations and Cable Barrier System operations, furnish and install "ROAD WORK AHEAD" signs with flags in accordance with DMS 8310 "Flexible Roll-Up Reflective Signs" .

For nighttime work, mount signs a minimum height of 7 feet, but not more than 9 feet above the pavement surface.

When a Traffic Control Plan (TCP) standard requires the use of one of the following devices, a Type III barricade, channelizing devices or shadow vehicle with orange flags or warning lights, use a shadow vehicle equipped with a Truck Mounted Attenuator (TMA).

Erect temporary traffic control signs in locations that will not obstruct the traveling public's view of the permanent roadway signing or obstruct sight distance at intersections and curves.

Any lane closures will require prior approval. Request approval 48 hours in advance of lane closures. If a lane closure has to be cancelled due to weather or other unforeseen circumstances, immediately notify the inspector and reschedule the lane closure as necessary.

When arrowboards are required, provide a standby unit in good working condition at the jobsite ready for immediate use.

Perform placement and removal of all traffic control devices within the working hours listed.

#### **Item 529 "Concrete Curb, Gutter, and Combined Curb and Gutter"**

Curb will be used as directed by the Engineer to repair median island noses and miscellaneous curb repairs.

#### **Item 540 "Metal Beam Guard Fence"**

This Item is intended for installation of guardrail in locations where guardrail did not previously exist.

After installation, repair all galvanized parts on which the galvanizing has become scratched, chipped, or otherwise damaged. Repair in accordance with Item 445.3.5, "Repairs". This work is subsidiary to the various bid items of the contract.

Supply and install terminal connectors as necessary. This work is subsidiary to the installation of the guardrail.

#### **Item 542 "Removing Metal Beam Guard Fence"**

When removing guardrail, the removal will include complete removal of any existing terminal anchor section when a new terminal anchor section or guardrail end treatment will not be installed.

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When removing guardrail in concrete riprap, fill in the guardrail post holes with suitable material (soil) and then place grout in the blockout area the post was removed from. This placement of grout is subsidiary to the various bid items of the contract.

Remove guardrail that is temporarily attached to concrete traffic barrier for safety purposes. Deliver the guardrail and terminal connectors to the TxDOT yard located at 9320 SE LP 410 in San Antonio. The removal and delivery of the this rail will be paid for with Item 542 6001 "Removing Metal Beam Guard Fence".

#### **Item 544 "Guardrail End Treatments"**

This Item is intended for:

1. Installation of guardrail end treatments (also known as single guardrail terminals-SGTs) in locations where guardrail did not previously exist, or
2. Complete removal of an existing guardrail end treatment when a new guardrail end treatment will not be installed.

When Item 544 is specified, install a Type III SGT.

After installation, repair all galvanized parts on which the galvanizing has become scratched, chipped, or otherwise damaged. Repair in accordance with Item 445.3.5, "Repairs". This work is subsidiary to the various bid items of the contract.

#### **Item 550 "Chain Link Fence"**

Damaged chain link fence may or may not include top rail. Repair chain link fence in-kind.

For all chain link fence installed on top of concrete structures or riprap, place posts with base plates and 4 concrete anchors per post.

#### **Item 658 "Delineation"**

Install delineators on guardrail as directed by the Engineer. Use GF2 type with a flexible post.

Install delineators to the downstream (in relation to the adjacent lane of traffic) side of the guardrail post.

Payment for removal of delineators will be made for broken or damaged delineators or delineators otherwise deemed necessary to replace that are outside of the area of guardrail repair.

#### **Item 730 "Roadside Mowing"**

Written notification of when to begin mowing will be given. The type of mowing and tracts to be mowed, the date when time charges begin, and the number of working days for completion of the work will be given on the written notification.

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Calculation of working days is based upon mowing 230 acres for Strip Mowing (15 feet), 230 acres for Strip Mowing (30 feet), 230 acres for Full Width Mowing and 10 acres for Spot Mowing per day.

During mowing cycles, coordinate mowing schedule with the litter cycle in order to prevent the mowing and shredding of litter on the highway. Coordinate litter pickup before mowing of a tract.

Trimming is required around all guardrail, the face of retaining walls, all appurtenances, and around all landscape plantings within or immediately adjacent to a mow area.

Trim vegetation to a height that is level with soil or hard surface of these structures. Vegetation in areas with loose gravel or other debris adjacent to travel lanes where trimming to ground level may be hazardous to passing vehicles may be cut to a height of 2" to 3" as approved to avoid scattering the material on the pavement surface.

When mowing adjacent to the edge of pavement, mow in the direction of traffic flow.

When performing strip mowing, mow the entire right of way from the pavement edge to the right of way in front of developed areas such as houses, churches, schools, cemeteries and businesses.

There are mulched landscape planting beds with irrigation systems within the limits of this contract. Unless directed otherwise, hand trimming of vegetation along the edge of these beds (planting beds are maintained by others) up to the mulched area is required if it cannot be mowed without displacement of the mulch. If mulch is displaced as a result of mowing or hand trimming, replace the mulch to previous conditions.

There may be locations of existing cable barrier fence, MBGF (metal beam guard fence), cable and other types of dividers in the ROW within the limits of this contract. Additional dividers may also be added during the term of this contract.

The contractor is responsible for traveling the highways within this contract to determine what type of mowing equipment will be necessary for mowing narrow areas adjacent to these dividers. Conventional batwing mowers may not be suitable or acceptable for mowing these areas. Encroachment of equipment onto the paved shoulder and closures of the travel lane will not be permitted for mowing this narrow width area. Therefore, the contractor must utilize mowing equipment that will not encroach into or adversely affect traffic in the adjacent travel lane.

There will be no adjustment to the unit bid prices and no additional payment on this contract for mowing along existing or new installations of: traffic barrier, MBGF, post and cable or any other type of divider. Any additional or alternative equipment, additional labor, or other expenses necessary to complete the work will be paid for at the unit price bid for the items in this contract.

Once work has started, proceed in an expeditious manner until all work on that work order is satisfactorily completed. Liquidated damages will be assessed for any day charged beyond the authorized time on each work order.

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**Item 734 “Litter Removal”**

Remove all litter from the entire right of way, including all shoulders but excluding the traveled lanes.

Remove litter and debris from behind barrier, including MBGF and attenuator systems, that is not accessible by sweeping operations.

The Department will issue a written notice to begin the initial litter cycle. Successive cycles will be scheduled as follows.

Perform a cycle for Tracts 1 through 39 as listed in the scope of work for litter on the first day of the month or the first working day thereafter. Complete this cycle within 11 working days.

Perform a second cycle for Tracts 1 through 17 as listed in the scope of work for litter beginning on the twentieth day of the month or the first working day thereafter. Complete this cycle within 5 working days.

Once work has started on a cycle, proceed in an expeditious manner until all work on that cycle is satisfactorily completed. Liquidated damages will be assessed for any working day charged beyond the authorized time. Time will not be charged between cycles.

Spot litter removal will be callout work. A separate work order will be sent from the normal litter removal cycles. Begin work on spot litter removal within 24 hours of notice or as directed by the Engineer.

Whole tires picked up from the right-of-way may be disposed of at the Maintenance Section Yard at the locations designated below:

Deliver whole tires to:

TxDOT  
Bexar County Maintenance Yard  
9320 SE Loop 410  
San Antonio, TX 78223

**Item 735 “Debris Removal”**

The Department will issue a written notice to begin the initial debris removal cycle of tracts 1 and 2 as shown on the scope of work for Debris Removal. Perform successive cycles of tracts 1 and 2 each third Tuesday of a month, or the first working day thereafter if a cycle falls on a state observed holiday.

The duration for all tracts listed in the scope of work for this item is one working day.

Remove all collected debris (loose or bagged) from the highway right of way at the end of each working day.

Use TCP (3-2)-98 Traffic Control Plan Mobile Operations Divided Highways for this work. A shadow vehicle and a trail vehicle with truck mounted attenuators will be required at all times.

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**Item 738 “Cleaning And Sweeping Highways”**

The Department will issue a written notice to begin the initial sweeping cycle. Successive cycles will begin on the first working day of each month.

Provide sweeper operator with a cell phone to notify TransGuide at (210) 731-5139 of the sweeper’s work location. Notify TransGuide a minimum of 30 minutes in advance of beginning work or changing work direction on any freeway main lanes. This requirement is subsidiary to the various bid items of the contract.

Use TCP (3-2)-13 Traffic Control Plan Mobile Operations Divided Highways for this work. A shadow vehicle and a trail vehicle with truck mounted attenuators will be required at all times.

Perform a cycle for tracts 1 through 12 as listed in the scope of work for sweeping for Items 738-6002, 738-6004, 738-6006 and 738-6008, beginning on the first day of each month or the first working day thereafter. Complete this cycle within 6 working days.

Removal of debris from pavement surface under this bid item includes but is not limited to the removal of dead animals, tires, tire fragments, wood, furniture, mattresses, household appliances, and scrap metal. Perform the removal of debris as a separate operation ahead of the sweepers in order to prevent running over debris with sweepers or to prevent sweepers from going around debris.

Clean under and around all attenuators and bull pens each cycle.

On divided highways, clean and sweep the left paved shoulders (including raised shoulders with mountable curbs of 5" or less) and left paved gutters.

Spot sweeping will be callout work. A separate work order will be sent from the normal sweeping cycles. Begin work on spot sweeping with 24 hours or as directed by the Engineer.

Removal of aggregate placed on roadways as part of a deicing operation will be paid for under the item “Aggregate Removal.” This work will be placed on a work order separately from the normal sweeping cycle. Clean and Sweep each bridge deck plus 250 ft before and after each bridge deck. Perform this work within 30 calendar days from the date of the workorder. Perform this work on Sunday nights through Thursday nights.

Once work has started on a cycle, proceed in an expeditious manner until all work on that cycle is satisfactorily completed. Liquidated damages will be assessed for any working day charged beyond the authorized time.

Material will be disposed of at an approved landfill. The Department has secured a waste code with the BFI landfill located at 7000 IH 10 East in San Antonio. A copy of the chemical analysis is available for review by contacting the District Environmental Office. The use of an alternate landfill may require additional analysis. Costs involved to any analytical laboratory will be at the Contractor’s expense. Provide written receipts showing disposal at licensed disposal facilities.

The Texas Department of Transportation, San Antonio District, will be listed on the manifest as the generator of the waste. The Contractor will sign the manifest as an agent for TxDOT. A letter authorizing the Contractor to

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sign the manifests will be provided to the Contractor when the contract is awarded. All copies of the manifests, signed by a representative of the landfill, will be returned to the Department within 45 days from the date of disposal.

**Item 752 “Tree Trimming & Brush Removal”**

All work on this item is callout work and a work order will be issued as work is needed to be performed. Perform this work within 30 calendar days of the date of the work order.

Tree trimming will be measured by the linear foot along the length of the right of way to the outer edges of the canopy of the tree.

Brush removal will be measured by the linear foot along the length of the right of way for the area of the brush to be removed.

**Item 764 “Pump Station And Drainage System Cleaning”**

All work on this item is callout work and a work order will be issued as work is needed to be performed. Complete work within 10 working days of the work order.

Follow confined space procedures as outlined in OSHA Standard 29 CFR 1910.146. Have a copy of the permit at the work site whenever entering a confined workspace.

Remove and dispose of all debris from designated areas as directed. Do not dump or stockpile debris on State Property or ROW. Dispose of all debris at an E.P.A.- and State-approved disposal facility.

Debris removed from the Pump Houses is classified by the Texas Commission of Environmental Quality (TCEQ) as storm water receptor waste. Storm water receptor waste is regulated by the TCEQ as a special waste. Storm water receptor waste must be transported with a non-hazardous special waste manifest or bill of lading identifying the material being transported as “Storm Water Receptor Waste”. The Texas Department of Transportation, San Antonio District, will be listed on the manifest as the generator of the waste. Sign the manifest as an agent for TxDOT. A letter authorizing the contractor to sign the manifest will be provided to the Contractor when the contract is awarded. All copies of the manifest, sign by a representative of the landfill, will be returned to the State within 45 days from the date of disposal.

The Department has secured a waste code with the BFI landfill located at 7000 IH 10 East in San Antonio. A copy of the chemical analysis is available for review by contacting the District Environmental Office. The contractor has the option to obtain a waste code from a different landfill. If the alternate landfill requires additional analysis, the Contractor will have to submit a sample of the waste to an analytical laboratory at the Contractor’s expense.

Provide all water needed to perform the work during this contract. The cost of this water will be considered subsidiary to the various bid items of this contract. For information regarding obtaining a water meter for fire hydrants, contact the San Antonio Water System at (210) 704-7075.

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Provide equipment for this contract that is in good working condition and free of contamination.

Pump House Locations are as follows:

No. 1. - SP 371 (General Hudnell) at Cupples Rd. (Southeast Corner)

No. 2. - SP 371 (General Hudnell) at Cupples Rd. (Northeast Corner)

Supply all pipe plugs to stop any flows into pumphouses while cleaning.

### **Item 770 “Guard Fence Repair”**

Replacement of guardrail blockouts and toenailing of blockouts will be subsidiary to the various items of the contract. After guardrail repair is complete, repair all galvanized parts on which the galvanizing has become scratched, chipped, or otherwise damaged. Repair galvanizing in accordance with Item 445.3.5, “Repairs”. This work is subsidiary to the various bid items of the contract.

When directed, replace all components of an entire section of guard fence (i.e. rail elements, posts, guardrail end treatments, etc.) from end to end in accordance with the most current standards. This work will be paid for under the applicable bid items under Item 770. Removal of existing guard fence components shall be considered subsidiary to the various bid items.

Installation/replacement of object markers, cable, anchors, struts, bearing plates and other hardware necessary to repair a Guardrail End Treatment will be subsidiary to Items 770-6028, 770-6021 and 770-6029.

“Repair Rail Element W-Beam (770-6001), Thrie Beam (770-6002), or Thrie Beam Transition to W-Beam (770-6003)”

If only the W-Beam portion of a T101 bridge rail is damaged, repair the W-Beam in accordance with this Item.

This repair will be paid for as Item 770 6001, “Repair Rail Element [\(W-Beam\)](#).”

When a retrofit plate is required to attach a thrie-beam to concrete bridge rail, TxDOT will provide a site specific design, and the Contractor shall provide and install the retrofit plate. This work will be subsidiary to this Item.

When repairing rail element attached to a concrete bridge rail, remove expansion anchors and drill holes (to provide a snug fit for 7/8 inch diameter bolts) completely through the parapet wall with a masonry bit or core drill. Do not use percussion drilling in concrete walls. Mount guardrail to the parapet wall with 7/8 inch diameter bolts that extend completely through the parapet wall. This work is subsidiary to this Item.

Supply and install terminal connectors as necessary. This work is subsidiary to the installation of the guardrail.

“Remove/Replace Timber/Steel Post without Concrete Foundation (770-6010)”

When Timber or Steel Post are encountered in Riprap without an existing blockout the contractor will remove existing post, saw cut a 18” X 18” square hole and replace post, backfill and compact with suitable material to the lower edge of the riprap and fill area between post and riprap with grout. Perform all groutwork on the same day as repairs. This work will be paid with Item 770-6010 Remove/Replace Timber/Steel Post without Concrete Foundation.

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Remove/Replace Timber/Steel Post with Concrete Foundation (770-6011)”

Timber/Steel Post with Concrete Foundation will be defined as a post that the entire foundation is completely encapsulated in concrete. This work will be paid using Item 770-6011 Remove/Replace Timber/Steel Post with Concrete Foundation. All other post, including those in Riprap will be paid using Item 770-6010 Remove/Replace Timber/Steel Post without Concrete Foundation.

Repair damaged steel post by exposing the post twelve inches below the damaged area. Cut post a minimum of six inches below the damaged area and weld a new post to the existing portion of post using full depth groove weld all the way around the post. Backfill will consist of grout.

When field welding is required, provide a “qualified” person, capable of making welds of sound quality in accordance with Item 448.4.2. “Welder Qualification”. Correct unsatisfactory welds at the Contractor’s expense.

“Realignment of Posts (770-6017)”

Do not damage existing posts when realigning posts. Drill new post holes and reset existing posts as directed. Perform all groutwork on the same day as repairs.

If an SGT post must be realigned, removal and resetting of a steel tube will be necessary to complete the realignment of the post. This removal and resetting of the steel tube will be subsidiary to this item. Concrete/grout work may be necessary to perform the realignment of posts. This concrete/grout work will be subsidiary to this item. Perform all groutwork on the same day as repairs. Work for Item 770-6017 “Realign Posts” may include posts where the guardrail is not damaged.

When the Engineer determines that removal of undamaged guardrail is necessary in order to achieve proper realignment of posts and rail, additional payment for removal of the existing rail and reinstalling the existing rail will be paid for by Item 770 6008 “Realign Existing Rail”. Additional payment will not be made for the removal of the existing rail and reinstalling the existing rail when the Engineer has not directed such work.

“Remove Guardrail End Treatment/Replace with SGT (770-6027)”

When this item is specified, install a Type III SGT.

Removal of the existing Terminal Anchor Section and/or the existing guardrail end treatment will be considered subsidiary to this Item.

“Replace SGT Impact Head (770-6028)”

This item is intended for removal of a damaged SGT impact head and replacement with a new impact head.

“Replace SGT Post (770-6022)”

The replacement of a SGT post may include replacement of the soil tube. The replacement of the soil tube is subsidiary to the replacement of the SGT post.

“Remove and Reset SGT Impact Head (770-6029)”

This item is intended for removal and re-installation of the impact head when a collision has caused the impact head to be moved out of its required position and the impact head is not damaged.

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Remove damaged guardrail from the Impact Head as recommended by the manufacturer.

### **Item 771 “Repair Cable Barrier System”**

Repair cable barrier system in accordance with the manufacturer’s recommendations as shown on the detail sheets. Re-tensioning the system will not be paid for directly, but will be subsidiary to the various bid items in the contract. Replace any damaged/missing hardware components of the system during a repair. This replacement is subsidiary to the various bid items of the contract.

#### “Replace Posts (TL-3) (771-6001)”

This item will be paid only when a post and/or posts are completely removed and replaced. If a post is reused, there will be no payment made. The reuse of a post is subsidiary to the various bid items in the contract.

#### “Cable Splice/Turnbuckle (TL-3) (771-6003)”

A splice can be made to all types of cable barrier, regardless of manufacturer, using the turnbuckle or torpedo style splice.

#### “Repr or Replc Cable Barr Term Sec (TL-3) (771-6007)”

A terminal section includes all posts and anchors included in the end section as shown the detail sheets. Payment is for the entire section, not each post.

#### “Replace Cable (TL-3) (771-6010)”

This item will be paid only when cable is completely removed and replaced. If the cable is loose and just reattached to posts, there will be no payment made. The reuse of cable is subsidiary to the various bid items in the contract.

### **Item 772 “Post and Cable Fence”**

Replace any missing cylinder reflectors or any other missing or damaged incidental hardware within the installation or repair area. Work required will be paid for using the various applicable bid items. When Post and Cable Fence (Repair) is specified, the minimum length of repair will be 25 LF.

Any additional cable required to be loosened, re-stretched, spliced, and re-tightened as part of the repair or replacement will not be paid for directly, but will be considered subsidiary to the various bid items of the contract.

### **Item 774 “Attenuator Repair”**

Repair of VIA-SFPM’s will be by each barrel removed and replaced. The addition of any barrel to an existing VIA-SFPM attenuator system necessary to ensure the system meets the current standards will be paid for under this item. This item will be paid for in accordance with item 774-6048 “Repair (VIA-Sand Filled Plastic Barrel)”.

Realignment of existing undamaged VIA Barrels will be subsidiary to Item 774 6048, “Repair (VIA-Sand Filled Plastic Barrel)”.

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Make repairs and installations in accordance with manufacturer's instructions and recommendations. The bid price will be full compensation for all materials recommended by the manufacturer. Perform all site preparation necessary to ensure correct installation of a new crash cushion attenuator (examples – removal of asphalt, debris, parts of old attenuator, etc.). This site preparation is subsidiary to the various bid items of the contract.

For repair of Quadguard systems, payment for the first bay will include nose assembly, cartridge and mounting hardware. No additional payment will be made for these items. Reposition undamaged cartridges in a Quadguard repair as necessary to ensure the system meets the specifications. The repositioning of cartridges is subsidiary to the various bid items in the contract. Payment of Quadguard bays will be for damaged bays.

For repair of the TRACC systems, repair or replacement of the nose assembly will be subsidiary to the TRACC repair.

All components and appurtenances (ie, bolts, cable, covers, etc.) required for repair of any attenuator system will be subsidiary to the various bid items.

“Repair (REACT) (774-6010)”

This item is intended to pay for the pulling (over-stretching) of a REACT 350 system during a repair. Object marker replacement/installation on a REACT 350 system is subsidiary to the various bid items of the contract. When a REACT 350 system is damaged, reuse the cylinder covers, if deemed salvageable by the Engineer. If the cylinder covers are not salvageable or were not present before the REACT 350 was damaged, obtain and install new cylinder covers. This installation/replacement of cylinder covers is subsidiary to the various bid items of the contract. Do not turn cylinders of a damaged REACT 350 system in order to try bring the system back to full length. The replacement of a damaged REACT 350 base track (front and/or rear section) (Ty-S or TY-B) is subsidiary to the various bid items of the contract. The replacement of damaged nuts, bolts, washers, anchors, anchor plates, brackets, and the cable system of a damaged REACT 350 system is subsidiary to the various bid items of the contract.

“Repair REACT (N) (Cylinders) (774-6027)”

This item is intended to pay for the replacement of damaged cylinders on the REACT 350 system. Payment for the box beams associated with cylinders #1 and #2 is included in payment of this item. Do not turn cylinders of a damaged REACT 350 system in order to try bring the system back to full length. The determination of whether to use this pay item will be made by the Engineer.

**Item 778 “Concrete Rail and Concrete Barrier Repair”**

Perform all Case III repairs to full depth, from top of the structure to foundation.

Attach a terminal connector and guardrail or attach a Thrie-beam assembly (whichever is work ordered) when repairing concrete barrier ends that have been damaged. The guardrail/terminal connector or Thrie-beam assembly will be paid for in accordance with the pertinent Item 540 pay items.

Remove guardrail that is temporarily attached to concrete barrier for safety purposes. Deliver the guardrail and terminal connectors to the TxDOT yard located at 9320 SE LP 410 in San Antonio. The removal and delivery of this rail will be paid for with Item 542 6001 "Removing Metal Beam Guard Fence.

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Dowel and tie bar adhesive shall be Type III, Class A or Class C, in accordance with the DMS 6100 "Epoxy and Adhesives."

Rapid setting concrete/hardener will conform to DMS 4655 - "Rapid-Hardening Cementing Materials for Concrete Repair" for concrete rail repairs.

### **Item 7013 "Vacuum Cleaning"**

Perform one cycle of Vacuum Cleaning of Drain Inlets/Raceways once every three (3) months. Perform this work at night, from 9:00 PM until 5:00 AM on Sunday through Thursday nights. A separate work order will be sent for this work. There are approximately 79 drains. Complete this cycle within one (1) working day. The locations for this work will be:

All ramps in the LP 1604/US 281 Interchange including the ramp from US 281 to LP 1604 Westbound exiting to Stone Oak Parkway.

Empty and clean vacuum truck storage compartments prior to working on this project. Get TxDOT inspection of equipment prior to commencing work. A small amount of normal wash in the tank will be permitted.

Test, at an approved laboratory, debris or wash water removed that smells of volatiles or shows signs of environmental contamination. Provide written receipts showing disposal at licensed disposal facilities for material testing positive for contamination.

Remove and replace grates as needed or directed. Furnish replacement hardware for any missing or damaged nuts, bolts, and washers, unless otherwise approved. This replacement is subsidiary to the various bid items of the contract.

### **Item 7014 "Maintenance Computer Controlled Cartridge Filter System"**

#### Trash, Debris and Sediment Removal

Complete each cycle of trash, debris and sediment removal within one working day.

#### Replacing Filter Cartridges

When performing a site inspection, have on hand sufficient filters to perform replacement of filters at the time of the site inspection. Perform replacement of filters at that time if determined necessary.

Replace the outer screen covering of filter canister holder as necessary. This replacement will be subsidiary to replacing the filter cartridges.

#### Mowing and Trimming

The Engineer will give written notification of when to begin mowing. Begin mowing within seven (7) calendar days after the date of written notification to begin work and continuously prosecute same with such diligence as will enable the work to be completed within one (1) working day for each basin. Cut all vegetation within the designated areas either by mowing or hand trimming to a height of five (5) inches. Once work has started,

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continuously prosecute the work until all work on that work order is satisfactorily completed. Liquidated damages will be assessed for any day charged beyond the authorized time on each work order.

At each Basin, mow all areas inside the fence. Mow the outside perimeter of the fence to a minimum of five (5) feet, where applicable, within the ROW.

Replacement of Battery

As determined necessary at a site inspection, replace the battery within 48 hours.

Replacement of Bladder

As determined necessary at a site inspection, replace the bladder within 48 hours.