

NOTIFICATION OF ADDENDUM

ADDENDUM NO. 1

DATED 1/31/2014

| | |
|----------------|---------------------------|
| Control | 0914-19-022, ETC. |
| Project | BR 2012(703), ETC. |
| Highway | CR |
| County | GILLESPIE |

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: BR 2012(703) CONTROL: 0914-19-022
COUNTY: GILLESPIE
LETTING: 02/04/2014
REFERENCE NO: 0131

PROPOSAL ADDENDUMS

- _ PROPOSAL COVER
X BID INSERTS (SH. NO.: 3 - 10 AND 10 -10)
X GENERAL NOTES (SH. NO.: C - EE (SEE CHANGES BELOW))

X SPEC LIST (SH. NO.: 2 - 4 (DELETED ITEM 504))
_ SPECIAL PROVISIONS:
_ ADDED:

DELETED:

_ SPECIAL SPECIFICATIONS:
_ ADDED:

DELETED:

X OTHER: SEE PLAN CHANGES BELOW

DESCRIPTION OF ABOVE CHANGES
(INCLUDING PLANS SHEET CHANGES)

- SHEET 2 : GENERAL NOTES CHANGED FROM 4 - 40 TO 4 - 4M.

SHEET 4A (SPEC DATA C): UNDER GENERAL: ADDED THE FIRST NOTE.

SHEET 4D (SPEC DATA I): DELETED 3RD NOTE ON THIS PERTAINING TO NATIONWIDE PERMIT #3.

SHEET 4D (SPEC DATA J): ITEM 8: ADDED NOTES TO ARTICLE 8.5.

SHEET 4E (SPEC DATA L): ITEM 132: DELETED THE FIRST FIVE NOTES FROM THIS ITEM.

SHEET 4G (SPEC DATA O): ITEM 275: DELETED ALL NOTES TO THIS ITEM

SHEET 4G (SPEC DATA P): ITEM 302: DELETED THE 3RD THRU 6TH NOTES FOR THIS ITEM. DELETION BEGINS WITH (BLIND NOTE: USE FOR TIER III UNDERSEALS ONLY) AND ALL NOTES AFTER THIS.

SHEET 4H (SPEC DATA Q): ITEM 310, 316,,, : DELETED COMMAS AFTER ITEM 316

DESCRIPTION OF ABOVE CHANGES (CONTINUED)
(INCLUDING PLANS SHEET CHANGES)

SHEET 4I (SPEC DATA S): ITEM 421: DELETED 2ND AND 6TH NOTE TO THIS ITEM.

SHEET 4I (SPEC DATA T): ITEM 442: DELETED NOTE FROM THIS ITEM.

SHEET 4I (SPEC DATA T): ITEM 449: DELETED NOTE FROM THIS ITEM.

SHEET 4J (SPEC DATA U): ITEM 460,462,464,465,466,467 & 474 : DELETED FROM THE HEADING ITEMS 460, 465, AND 474.

SHEET 4J (SPEC DATA U): ITEM 460: DELETED ALL NOTES FROM THIS ITEM.

SHEET 4J (SPEC DATA U): ITEM 465: DELETED ALL NOTES FROM THIS ITEM.

SHEET 4L THUR 4M (SPEC DATA Z THUR AA): ITEM 504: DELETED ALL NOTES FROM THIS ITEM.

SHEET 4M (SPEC DATA AA): ITEM 512: DELETED FIRST TWO NOTES FROM THIS ITEM.

ADDED TO ITEM 512: A NEW FIRST NOTE. PROVIDE PCTB TO BE USED FOR TRAFFIC CONTROL PURPOSES.

SHEET 4N (SPEC DATA CC): ITEM 628: DELETED ALL NOTES FROM THIS ITEM

PLAN SHEETS 4A THRU 4O: NOTES SHIFTED FROM PAGE TO PAGE

PLAN SHEETS 4N AND 4O: DELETED FROM PLAN SET

PLAN SHEET 5: REVISED QUANTITY FOR ITEM 420.2004 AND ITEM 420.2033

PLAN SHEET 5A: REVISED QUANTITY FOR ITEM 6834.2002

PLAN SHEET 113: REVISED QUANTITIES FOR ITEM 420.2004 AND ITEM 420.2033

| ALT | ITEM-CODE | | | UNIT BID PRICE ONLY. WRITTEN IN WORDS | UNIT | APPROX QUANTITIES | DEPT USE ONLY |
|-----|------------|--------------|-------------|--|------|----------------------|---------------------|
| | ITEM NO | DESC CODE | S.P. NO. | | | | |
| | 100 | 2002 | 002 | PREPARING ROW DOLLARS and CENTS | STA | 23.400 | 1 |
| | 104 | 2001 | | REMOVING CONC (PAV) DOLLARS and CENTS | SY | 192.200 | 2 |
| | 104 | 2009 | | REMOVING CONC (RIPRAP) DOLLARS and CENTS | SY | 317.000 | 3 |
| | 104 | 2021 | | REMOVING CONC (CURB) DOLLARS and CENTS | LF | 175.000 | 4 |
| | 104 | 2044 | | REMOVING CONC (FLUME) DOLLARS and CENTS | SY | 18.000 | 5 |
| | 106 | 2001 | | OBLITERATING ABANDONED ROAD DOLLARS and CENTS | STA | 7.200 | 6 |
| | 110 | 2001 | | EXCAVATION (ROADWAY) DOLLARS and CENTS | CY | 3,939.000 | 7 |
| | 110 | 2002 | | EXCAVATION (CHANNEL) DOLLARS and CENTS | CY | 332.000 | 8 |
| | 132 | 2003 | | EMBANKMENT (FINAL)(ORD COMP)(TY B) DOLLARS and CENTS | CY | 2,822.000 | 9 |
| | 160 | 2003 | | FURNISHING AND PLACING TOPSOIL (4") DOLLARS and CENTS | SY | 5,850.000 | 10 |

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| | ITEM NO | DESC CODE | S.P. NO. | | | | |
| | 164 | 2021 | 002 | CELL FBR MLCH SEED(PERM)(RURAL)(SANDY) DOLLARS CENTS and | SY | 2,193.000 | 11 |
| | 164 | 2023 | 002 | CELL FBR MLCH SEED(PERM)(RURAL)(CLAY) DOLLARS CENTS and | SY | 3,657.000 | 12 |
| | 168 | 2001 | | VEGETATIVE WATERING DOLLARS CENTS and | MG | 117.000 | 13 |
| | 169 | 2001 | 002 | SOIL RETENTION BLANKETS (CL 1) (TY A) DOLLARS CENTS and | SY | 3,657.000 | 14 |
| | 169 | 2002 | 002 | SOIL RETENTION BLANKETS (CL 1) (TY B) DOLLARS CENTS and | SY | 2,242.000 | 15 |
| | 247 | 2366 | 033 | FL BS (CMP IN PLC)(TY A GR 5)(FNAL POS) DOLLARS CENTS and | CY | 1,315.000 | 16 |
| | 310 | 2001 | | PRIME COAT (MC-30) DOLLARS CENTS and | GAL | 985.000 | 17 |
| | 316 | 2705 | 016 | ASPH (TIER I) DOLLARS CENTS and | GAL | 2,610.000 | 18 |
| | 316 | 2706 | 016 | ASPH (TIER II) DOLLARS CENTS and | GAL | 1,324.000 | 19 |
| | 316 | 2717 | 016 | AGGR (TIER I) DOLLARS CENTS and | CY | 60.000 | 20 |

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| | ITEM NO | DESC CODE | S.P. NO. | | | | |
| | 316 | 2718 | 016 | AGGR (TIER II) and DOLLARS CENTS | CY | 30.000 | 21 |
| | 400 | 2005 | | CEM STABIL BKFL and DOLLARS CENTS | CY | 149.900 | 22 |
| | 403 | 2001 | | TEMPORARY SPL SHORING and DOLLARS CENTS | SF | 895.000 | 23 |
| | 416 | 2001 | | DRILL SHAFT (18 IN) and DOLLARS CENTS | LF | 33.000 | 24 |
| | 416 | 2002 | | DRILL SHAFT (24 IN) and DOLLARS CENTS | LF | 693.000 | 25 |
| | 416 | 2004 | | DRILL SHAFT (36 IN) and DOLLARS CENTS | LF | 260.000 | 26 |
| | 416 | 2006 | | DRILL SHAFT (48 IN) and DOLLARS CENTS | LF | 195.000 | 27 |
| | 420 | 2003 | 002 | CL C CONC (ABUT) and DOLLARS CENTS | CY | 104.600 | 28 |
| | 420 | 2004 | 002 | CL C CONC (BENT) and DOLLARS CENTS | CY | 80.200 | 29 |
| | 420 | 2029 | 002 | CL S CONC (SLAB) and DOLLARS CENTS | CY | 41.000 | 30 |
| | 420 | 2033 | 002 | CL S CONC (APPR SLAB) and DOLLARS CENTS | CY | 222.100 | 31 |

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| | ITEM NO | DESC CODE | S.P. NO. | | | | |
| | 420 | 2035 | 002 | CL S CONC (CIP SLAB SPAN) DOLLARS and CENTS | CY | 132.600 | 32 |
| | 422 | 2001 | | REINF CONC SLAB DOLLARS and CENTS | SF | 7,480.000 | 33 |
| | 425 | 2015 | 001 | PRESTR CONC SLAB BEAM (5SB12) DOLLARS and CENTS | LF | 176.520 | 34 |
| | 425 | 2017 | 001 | PRESTR CONC SLAB BEAM (5SB15) DOLLARS and CENTS | LF | 297.000 | 35 |
| | 425 | 2065 | 001 | PRESTR CONC GIRDER (TX34) DOLLARS and CENTS | LF | 874.270 | 36 |
| | 432 | 2001 | | RIPRAP (CONC)(4 IN) DOLLARS and CENTS | CY | 45.000 | 37 |
| | 432 | 2019 | | RIPRAP (STONE PROTECTION)(12 IN) DOLLARS and CENTS | CY | 170.800 | 38 |
| | 432 | 2021 | | RIPRAP (STONE PROTECTION)(18 IN) DOLLARS and CENTS | CY | 69.000 | 39 |
| | 432 | 2023 | | RIPRAP (STONE PROTECTION)(24 IN) DOLLARS and CENTS | CY | 1,374.000 | 40 |
| | 432 | 2026 | | RIPRAP (CEMENT STABILIZED)(5 IN) DOLLARS and CENTS | CY | 49.000 | 41 |
| | 432 | 2031 | | RIPRAP (CEM STAB)(6 IN) DOLLARS and CENTS | CY | 362.000 | 42 |

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| | ITEM NO | DESC CODE | S.P. NO. | | | | |
| | 432 | 2039 | | RIPRAP (MOW STRIP)(4 IN) and DOLLARS CENTS | CY | 71.000 | 43 |
| | 432 | 2059 | | RIPRAP (STONE TY R)(DRY)(12 IN) and DOLLARS CENTS | CY | 62.000 | 44 |
| | 450 | 2154 | 001 | RAIL (TY T1W) and DOLLARS CENTS | LF | 88.000 | 45 |
| | 450 | 2161 | 001 | RAIL (TY T223) and DOLLARS CENTS | LF | 989.000 | 46 |
| | 454 | 2001 | 003 | SEALED EXPANSION JOINT (4 IN)(SEJ-A) and DOLLARS CENTS | LF | 67.000 | 47 |
| | 459 | 2015 | | GABIONS (PVC)(3FT X 3 FT) and DOLLARS CENTS | CY | 101.000 | 48 |
| | 462 | 2025 | 015 | CONC BOX CULV (9 FT X 6 FT) and DOLLARS CENTS | LF | 192.000 | 49 |
| | 464 | 2003 | 006 | RC PIPE (CL III)(18 IN) and DOLLARS CENTS | LF | 34.000 | 50 |
| | 466 | 2330 | | WINGWALL (PW-1)(HW=7 FT) and DOLLARS CENTS | EA | 2.000 | 51 |
| | 467 | 2286 | | SET (TY II)(18 IN)(RCP)(6:1)(P) and DOLLARS CENTS | EA | 2.000 | 52 |
| | 496 | 2008 | | REMOV STR (BOX CULVERT) and DOLLARS CENTS | LF | 80.000 | 53 |

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| | 496 | 2009 | | REMOV STR (BRIDGE 0-99 FT LENGTH) DOLLARS and CENTS | EA | 2.000 | 54 |
| | 496 | 2010 | | REMOV STR (BRIDGE 100-499 FT LENGTH) DOLLARS and CENTS | EA | 1.000 | 55 |
| | 496 | 2013 | | REMOV STR (BRIDGE SLAB) DOLLARS and CENTS | EA | 1.000 | 56 |
| | 496 | 2043 | | REMOV STR (SMALL FENCE) DOLLARS and CENTS | LF | 73.000 | 57 |
| | 500 | 2001 | 011 | MOBILIZATION DOLLARS and CENTS | LS | 1.000 | 58 |
| | 502 | 2001 | 033 | BARRICADES, SIGNS AND TRAFFIC HAN- DLING DOLLARS and CENTS | MO | 35.000 | 59 |
| | 512 | 2017 | 002 | PORT CTB (DES SOURCE)(LOW PROF)(TY 1) DOLLARS and CENTS | LF | 560.000 | 60 |
| | 512 | 2018 | 002 | PORT CTB (DES SOURCE)(LOW PROF)(TY 2) DOLLARS and CENTS | LF | 80.000 | 61 |
| | 512 | 2026 | 002 | PORT CTB (MOVE)(LOW PROF)(TY 1) DOLLARS and CENTS | LF | 220.000 | 62 |
| | 512 | 2027 | 002 | PORT CTB (MOVE)(LOW PROF)(TY 2) DOLLARS and CENTS | LF | 80.000 | 63 |

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| | 512 | 2035 | 002 | PORT CTB (STKPL)(LOW PROF)(TY 1) DOLLARS and CENTS | LF | 560.000 | 64 |
| | 512 | 2036 | 002 | PORT CTB (STKPL)(LOW PROF)(TY 2) DOLLARS and CENTS | LF | 80.000 | 65 |
| | 530 | 2012 | 006 | DRIVEWAYS (SURF TREAT) DOLLARS and CENTS | SY | 115.000 | 66 |
| | 540 | 2001 | 031 | MTL W-BEAM GD FEN (TIM POST) DOLLARS and CENTS | LF | 350.000 | 67 |
| | 540 | 2011 | 031 | MTL BEAM GD FEN TRANS (THRIE-BEAM) DOLLARS and CENTS | EA | 12.000 | 68 |
| | 540 | 2012 | 031 | MTL BEAM GD FEN TRANS (TL2) DOLLARS and CENTS | EA | 8.000 | 69 |
| | 540 | 2015 | 031 | MTL W-BEAM GD FEN(TIM POST)RADIUS RAIL DOLLARS and CENTS | LF | 25.000 | 70 |
| | 542 | 2001 | | REMOVING METAL BEAM GUARD FENCE DOLLARS and CENTS | LF | 75.000 | 71 |
| | 544 | 2001 | 001 | GUARDRAIL END TREATMENT (INSTALL) DOLLARS and CENTS | EA | 11.000 | 72 |
| | 544 | 2004 | 001 | GDRAIL END TRT(INST)(WOOD POST)(TY I) DOLLARS and CENTS | EA | 8.000 | 73 |

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| | 644 | 2001 | | IN SM RD SN SUP&AM TY10BWG(1)SA(P) DOLLARS and CENTS | EA | 17.000 | 74 |
| | 644 | 2002 | | IN SM RD SN SUP&AM TY10BWG(1)SA(P-BM) DOLLARS and CENTS | EA | 2.000 | 75 |
| | 644 | 2060 | | REMOVE SM RD SN SUP & AM DOLLARS and CENTS | EA | 22.000 | 76 |
| | 644 | 2081 | | IN SM RD SN SUP&AM TYTWT(1)WS(P) DOLLARS and CENTS | EA | 6.000 | 77 |
| | 644 | 2112 | | REMOVE SM RD SN SUP & AM (FOUNDA- TION) DOLLARS and CENTS | EA | 4.000 | 78 |
| | 658 | 2241 | | INSTL DEL ASSM (D-SW)SZ 1(FLX)GF2(BI) DOLLARS and CENTS | EA | 6.000 | 79 |
| | 658 | 2259 | | INSTL DEL ASSM (D-SW)SZ (TYC)CTB(BI) DOLLARS and CENTS | EA | 10.000 | 80 |
| | 658 | 2261 | | INSTL DEL ASSM (D-SW)SZ (TYC)GF1(BI) DOLLARS and CENTS | EA | 14.000 | 81 |
| | 662 | 2054 | | WK ZN PAV MRK REMOV (REFL) TY II-A-A DOLLARS and CENTS | EA | 100.000 | 82 |
| | 662 | 2079 | | WK ZN PAV MRK REMOV (W) 24" (SLD) DOLLARS and CENTS | LF | 36.000 | 83 |

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| | ITEM NO | DESC CODE | S.P. NO. | | | | |
| | 662 | 2099 | | WK ZN PAV MRK REMOV (Y) 4" (SLD) DOLLARS and CENTS | LF | 3,940.000 | 84 |
| | 662 | 2115 | | WK ZN PAV MRK SHT TERM (TAB) TY Y-2 DOLLARS and CENTS | EA | 34.000 | 85 |
| | 666 | 2011 | | REFL PAV MRK TY I (W) 4" (SLD)(090MIL) DOLLARS and CENTS | LF | 2,322.000 | 86 |
| | 666 | 2012 | | REFL PAV MRK TY I (W) 4" (SLD)(100MIL) DOLLARS and CENTS | LF | 660.000 | 87 |
| | 666 | 2110 | | REFL PAV MRK TY I (Y) 4" (SLD)(090MIL) DOLLARS and CENTS | LF | 2,762.000 | 88 |
| | 666 | 2111 | | REFL PAV MRK TY I (Y) 4" (SLD)(100MIL) DOLLARS and CENTS | LF | 1,360.000 | 89 |
| | 672 | 2015 | 034 | REFL PAV MRKR TY II-A-A DOLLARS and CENTS | EA | 59.000 | 90 |
| | 681 | 2001 | 002 | TEMP TRAF SIGNALS DOLLARS and CENTS | EA | 3.000 | 91 |
| | 1122 | 2002 | 001 | ROCK FILTER DAMS (INSTALL) (TY 2) DOLLARS and CENTS | LF | 240.000 | 92 |
| | 1122 | 2009 | 001 | ROCK FILTER DAMS (REMOVE) DOLLARS and CENTS | LF | 240.000 | 93 |
| | 1122 | 2016 | 001 | CONSTRUCTION EXITS (INSTALL) (TY 1) DOLLARS and CENTS | SY | 312.000 | 94 |

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| | ITEM NO | DESC CODE | S.P. NO. | | | | |
| | 1122 | 2019 | 001 | CONSTRUCTION EXITS (REMOVE) DOLLARS and CENTS | SY | 312.000 | 95 |
| | 1122 | 2037 | 001 | TEMPORARY SEDIMENT CONTROL FENCE INSTLL DOLLARS and CENTS | LF | 1,596.000 | 96 |
| | 1122 | 2057 | 001 | TEMPORARY SEDIMENT CONTROL FENCE REMOVE DOLLARS and CENTS | LF | 1,596.000 | 97 |
| | 6834 | 2001 | 002 | PORTABLE CHANGEABLE MESSAGE SIGN DOLLARS and CENTS | DAY | 84.000 | 98 |
| | 6834 | 2002 | 002 | PORTABLE CHANGEABLE MESSAGE SIGN DOLLARS and CENTS | EA | 8.000 | 99 |

Project Number: BR 2012(703), etc
County: Gillespie
Highway: CR

Sheet:
Control: 0914-19-022, ETC

GENERAL NOTES: Revised December, 2013

Basis of Estimate

| Item | Description | **Rate | Basis | Quantity |
|-------|---|---|--|---|
| 160 | Topsoil | 1 CY/9 SY | | |
| **166 | Fertilizer (20-10-10) | 1/8 LB/SY | | |
| 168 | Vegetative Watering 0914-19-022 (Old San Antonio Rd) (Item 164)(Perm) | 20 GAL/SY | 3,023 SY | 60 MG |
| | 0914-19-030 (Kneese Rd No. 1) (Item 164)(Perm) | 20 GAL/SY | 279 SY | 6 MG |
| | 0914-19-015 (Kneese Rd No. 2) (Item 164)(Perm) | 20 GAL/SY | 1,381 SY | 28 MG |
| | 0914-19-026 (Goehmann Ln) (Item 164)(Perm) | 20 GAL/SY | 355 SY | 7 MG |
| | 0914-19-031 (Boos Ln) (Item 164)(Perm) | 20 GAL/SY | 812 SY | 16 MG |
| **204 | Sprinkling (Dust) (Item 132) (Item 247) | 30 GAL/CY 30 GAL/CY 30 GAL/CY | | |
| **210 | Roll (Flat Wheel) (Item 247) (Item 316) | 1 HR/200 TON 1 HR/6,000 SY | | |
| **210 | Roll (Tamping) (Item 132) | 1 HR/200 CY | | |
| **210 | Roll (Heavy Tamp) (Item 132) | 1 HR/200 CY | | |
| **210 | Roll (Lt Pneu Tire) (Item 132) (Item 247) (Item 316)(Seal Coat) | 1 HR/500 CY 1 HR/200 TON 1 HR/6,000 SY | | |
| 247 | Flex Base (CMP IN PLC) (TY A GR 5)(FNAL POS) 0914-19-022 (Old San Antonio Rd) 0914-19-030 (Kneese Rd No. 1) 0914-19-015 (Kneese Rd No. 2) 0914-19-026 (Goehmann Ln) 0914-19-031 (Boos Ln) | 3,564 LB/CY 3,564 LB/CY 3,564 LB/CY 3,564 LB/CY 3,564 LB/CY | 714 CY 122 CY 145 CY 196 CY 138 CY | ** 1,272 TON 217 TON 258 TON 349 TON 246 TON |

| | | | | | |
|---------------------------|----------------------------------|-------------|----------|---------|--|
| 310 | Prime Coat (MC-30 or AE-P) | | | | |
| | 0914-19-022 (Old San Antonio Rd) | 0.20 GAL/SY | 2,383 SY | 477 GAL | |
| | 0914-19-030 (Kneese Rd No. 1) | 0.20 GAL/SY | 410 SY | 82 GAL | |
| | 0914-19-015 (Kneese Rd No. 2) | 0.20 GAL/SY | 700 SY | 140 GAL | |
| | 0914-19-026 (Goehmann Ln) | 0.20 GAL/SY | 625 SY | 125 GAL | |
| | 0914-19-031 (Boos Ln) | 0.20 GAL/SY | 882 SY | 176 GAL | |
| 316 | Surface Treatments | | | | |
| | Two Course Surface Treatments | | | | |
| | 0914-19-022 (Old San Antonio Rd) | | | | |
| | Asphalt (TIER I) | | | | |
| | First Application | 0.40 GAL/SY | 2,383 SY | 952 GAL | |
| | Second Application | 0.40 GAL/SY | 2,383 SY | 952 GAL | |
| | Aggregate (TIER I) | | | | |
| | First Application | 1 CY/110 SY | 2,383 SY | 22 CY | |
| | Second Application | 1 CY/110 SY | 2,383 SY | 22 CY | |
| | 0914-19-030 (Kneese Rd No. 1) | | | | |
| | Asphalt (TIER I) | | | | |
| | First Application | 0.40 GAL/SY | 408 SY | 163 GAL | |
| | Second Application | 0.40 GAL/SY | 408 SY | 163 GAL | |
| | Aggregate (TIER I) | | | | |
| | First Application | 1 CY/100 SY | 408 SY | 4 CY | |
| | Second Application | 1 CY/100 SY | 408 SY | 4 CY | |
| | 0914-19-015 (Kneese Rd No. 2) | | | | |
| | Asphalt (TIER II) | | | | |
| | First Application | 0.40 GAL/SY | 700 SY | 280 GAL | |
| | Second Application | 0.40 GAL/SY | 700 SY | 280 GAL | |
| Aggregate (TIER II) | | | | | |
| First Application | 1 CY/110 SY | 700 SY | 6 CY | | |
| Second Application | 1 CY/110 SY | 700 SY | 6 CY | | |
| 0914-19-026 (Goehmann Ln) | | | | | |
| Asphalt (TIER I) | | | | | |
| First Application | 0.40 GAL/SY | 882 SY | 353 GAL | | |
| Second Application | 0.40 GAL/SY | 882 SY | 353 GAL | | |
| Aggregate (TIER I) | | | | | |
| First Application | 1 CY/110 SY | 882 SY | 8 CY | | |
| Second Application | 1 CY/110 SY | 882 SY | 8 CY | | |

Project Number: BR 2012(703), etc

County: Gillespie

Highway: CR

Sheet:

Control: 0914-19-022, ETC

| | | | | |
|--|-----------------------|-------------|--------|---------|
| | 0914-19-031 (Boos Ln) | | | |
| | Asphalt (TIER II) | | | |
| | First Application | 0.40 GAL/SY | 548 SY | 219 GAL |
| | Second Application | 0.40 GAL/SY | 548 SY | 219 GAL |
| | Aggregate (TIER II) | | | |
| | First Application | 1 CY/110 SY | 548 SY | 5 CY |
| | Second Application | 1 CY/110 SY | 548 SY | 5 CY |

** For informational purposes only.

The following standard detail sheet or sheets have been modified:

Modified Standards

GENERAL

Road work requiring closures at Kneese Rd No. 1 and Kneese Rd No. 2 will not be completed at the same time.

References to manufacturer's trade name or catalog numbers are for the purpose of identification only. Similar materials from other manufacturers are permitted if they are of equal quality, comply with the specifications for this project, and are approved.

Do not place surface treatments or pavement when in the Engineer's professional judgment, the apparent general weather conditions are unsuitable for Overlay operations.

Remove and replace, at the Contractor's expense, and as directed, all defective work, which was caused by the Contractor's workforce, materials, or equipment.

Perform work during good weather unless otherwise directed. If work is performed at Contractor's option, when inclement weather is impending, and the work is damaged by subsequent precipitation, the Contractor is responsible for all costs associated with replacing the work, if required.

Accrue contract time charges through the Contractor's completion of the final punchlist.

Meet weekly with the Engineer to notify him/her of planned work for the upcoming week. Provide a three-week "look ahead," as well as all work performed over the past week.

Blade the side slopes to remove all grass from the area of construction before placing flexible base on that portion of the roadway to be widened, leveled-up, seal coated/surfaced treated, or Hot Mix Asphaltic Concrete Pavement (HMACP) overlaid. Blade the sod back onto the side

Project Number: BR 2012(703), etc
County: Gillespie
Highway: CR

Sheet:
Control: 0914-19-022, ETC

slopes after the proposed items of work have been completed. Consider subsidiary to pertinent Items.

Equip all construction equipment used in roadway work with a permanently mounted 360° revolving or strobe warning light with amber lens. Light will have a minimum lens height and diameter of 5 inches and mounting height of not less than 6 feet above the roadway surface and be visible from all sides. Attach at each side of the rear end of the construction equipment an approved orange warning flag mounted not less than 6 feet above the roadway surface.

Overhead and underground utilities may exist in the vicinity of the project. The exact location of underground utilities is not known.

If working near power lines, comply with the appropriate sections of Local Legal Requirements, Texas State Law, and Federal Regulations relating to the type of work involved.

In the event of unforeseen utility adjustment, the Contractor will prosecute their work in such a manner and sequence as to facilitate the adjustments to be made.

Superelevate all curves to conform to the slope(s) of the existing curves, as directed. Consider subsidiary to the pertinent Items.

Match existing cross slopes, as directed. Consider subsidiary to the pertinent Items.

Provide a smooth, clean sawcut along the existing asphalt pavement structure, as directed. Consider subsidiary to the pertinent Items.

Remove all construction debris and surplus material generated by the construction work within the project limits. Perform this work as directed. Consider subsidiary to the pertinent Items.

Trim vegetation around signs and other obstructions. Consider subsidiary to pertinent Items.

Supply litter barrels in enough numbers at locations as directed to control litter within the project. Consider subsidiary to pertinent Items.

Use a self-contained vacuum broom to sweep the roadway and keep it free of sediment due to the Construction of the Roadway, as directed. Consider subsidiary to pertinent Items.

Protect all areas of the right of way, which are not included in the actual limits of the proposed construction areas, from destruction. Exercise care to prevent damage to trees, vegetation, and other natural surroundings. Areas not to be disturbed will be as directed. Restore any area disturbed because of the Contractor's operations to a condition as good as, or better than, before the beginning of work.

Damage to existing pipes and SET's due to Contractor operations shall be repaired at Contractor's expense.

Project Number: BR 2012(703), etc
County: Gillespie
Highway: CR

Sheet:
Control: 0914-19-022, ETC

All locations used for storing construction equipment, materials, and stockpiles of any type, within the right of way, will be as directed. Use of right of way for these purposes will be restricted to those locations where driver sight distance to businesses and side street intersections is not obstructed and at other locations where an unsightly appearance will not exist. The Contractor will not have exclusive use of right of way but will cooperate in the use of the right of way with the city/county and various public utility companies as required.

The Project Superintendent will be on the project at all times when work is being performed, including subcontractor work. The Superintendent will be available and on-call 24 hours a day.

When directed, designate an official backer/spotter or "dump-man" who shall wear specially marked clothing and a specially marked hard hat which specifically identifies them as the backer/spotter and identifies that they are the person who is directing the backing operations. They shall be identified to all project personnel, Contractor and TxDOT, when dumping the various project materials, throughout the course of the project.

Storm Water Pollution Prevention Plan (SW3P)

Maintain erosion control features according to the TxDOT SW3P sheet.

In the event that significant contamination is encountered based on odors, visual evidence, or vapor monitoring, immediately contact the Engineer in accordance with Item 4.3 of the General Provisions of the STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS, AND BRIDGES. The Engineer may suspend work wholly or in part to determine the coordination/management for the testing, removal and disposal of hazardous materials that might be necessary according to all applicable rules, laws and regulations.

When any abandoned well is encountered, cease construction operations in this area and notify the Engineer who will coordinate the proper plugging procedures with Texas Commission on Environmental Quality (TCEQ).

Plug any drill holes, resulting from core sampling on-site or down-gradient of the site, with concrete from the bottom of the hole to the top of the hole so that water and contaminants are not allowed to enter the subsurface environment.

Restrict construction vehicles from traversing or utilizing existing roadways, unprotected construction areas, and areas with vegetative cover.

Maintain vehicles at designated maintenance sites, unless otherwise approved.

Transport any soils contaminated during construction off of the proposed project, away from the site, and properly dispose of off-site.

Collect wastewater generated on-site by chemical toilets, transport and dispose of off-site, in a proper manner.

Project Number: BR 2012(703), etc
County: Gillespie
Highway: CR

Sheet:
Control: 0914-19-022, ETC

Locate aboveground storage tanks kept on-site for construction purposes over bermed impervious liners as to not allow any leakage into underlying soils. Additionally, the containment will be sized to capture 150% of the total volume of fluids stored on-site within the storage area.

No blasting will be allowed. **For all work over or near Bodies of Water (Lakes, Rivers, Ponds, Creeks, etc.):**

Keep on hand Synthetic Absorbent Booms (Petroleum Sorbent Booms, Petroleum Socks, Absorbant Socks, etc.) and Absorbent Pads (Eversoak Sorbents, Industrial Absorbent Pads, Calicorp Absorbent Pads, etc.), both types, for spilled petroleum products, in enough quantity to mitigate a petroleum-type spill due to Contract work.

ITEM 4 – SCOPE OF WORK

Final cleanup will include the removal of excess material considered detrimental to vegetation growth along the front slope of the ditch. Materials such as surface aggregates and other materials, as specified by the Engineer, will be removed at the Contractor's expense.

Upon completion of the work and before final acceptance, remove all foreign material, stains, and marks from concrete surfaces. Sandblast clean concrete surfaces as directed. Clean existing concrete structures that are marked or stained by the Contractor's operations. This work will not be paid for directly, but will be subsidiary to the bid items of the Contract.

During final clean up, remove all foreign material that has accumulated at bridge abutments and bent caps as approved. All work and equipment involved in the removal of this material is subsidiary to the bid items of the Contract.

ITEM 5 – CONTROL OF THE WORK

Before Contract letting, bidders may obtain from the Engineer's office, the earthwork information. If copies of the actual cross-sections (paper copies) are requested, they will be available at the Engineer's office. In addition, cross-sections will be available in electronic format, upon request, at no cost to the bidder.

RDS or GEOPAK earthwork output listings for this project are available upon request, on diskettes or CD ROM's, at the Area Engineer's office.

Mark and maintain 100-foot station intervals for the duration of the project, as directed. Consider subsidiary to pertinent Items.

Electronic Shop Drawing Submittals:

Submit Electronic Shop Drawing Submittals according to the current **Guide to Electronic Shop Drawing Submittal** (GESDS). For instructions on submitting shop drawings electronically go to TxDOT website (Business with TxDOT > Bridge Information > Shop Drawings. File is titled: **Guide to Electronic Shop Drawing Submittal**.)

Project Number: BR 2012(703), etc
County: Gillespie
Highway: CR

Sheet:
Control: 0914-19-022, ETC

For information on the electronic shop plan process, please visit the Bridge Division/Fabrication Branch web pages at: <http://www.txdot.gov/inside-txdot/division/bridge/specifications/shop-drawings.html>

The Guide to Electronic Shop Drawing Submittal at:
ftp://ftp.dot.state.tx.us/pub/txdot-info/library/pubs/bus/bridge/e_submit_guide.pdf
and the Submittal Requirements table at:
ftp://ftp.dot.state.tx.us/pub/txdot-info/library/pubs/bus/bridge/electronic_submission.pdf
have been updated to include additional guidance on segmental bridge submittals.

And;

Copies of the standard shop drawings are on file with Traffic Operations Division, Bridge Division, and the Materials Section of Construction Division. Additional shop drawings for roadway illumination assemblies built in conformance with these drawings are not required. Pre-approved shop drawing manufacturers and assembly model numbers can be found at TxDOT website (Business with TxDOT > Materials Information > Material Producer List. Category is Roadway Illumination and Electrical Supplies

- 1. In the E-mail “To:” box place the E-mail address to the following:**
If the Bridge(s) on this Project is a (are) TxDOT Bridge(s), which utilizes TxDOT Standards, then submit the appropriate Shop Drawings (and Working Drawings, if required) directly to the **Bridge Division Fabrication Section**<mailto:>. See the two paragraphs above.

Alternatively/In addition, if the Shop Drawings (and Working Drawings, if/when required) are not required to be submitted to the **Bridge Division Fabrication Section:**

Submit all Shop Drawings (and Working Drawings, if/when required), which do not require direct submittal to the **Bridge Division Fabrication Section**, electronically, to the following address:

| | | | |
|-------------|--------------|--|--|
| Burnet Area | Howard Lyons | Howard.Lyons@txdot.gov | AUS_BU-ShopReview@txdot.gov |
|-------------|--------------|--|--|

Consultant E-Mail Contact: Send shop drawings to the Engineer of Record at the email address provided by the Engineer, if directed.

- 2. In the e-mail “CC:” or “Copy To:” box place the following E-mail addresses:**
In every e-mail submittal, the “CC:” or “Copy To:” line of the header will include the following e-mail addresses:

a. Contractor’s Contact:

AND

b. Area Office Contact:

| | | | |
|-------------|--------------|--|--|
| Burnet Area | Howard Lyons | Howard.Lyons@txdot.gov | AUS_BU-ShopReview@txdot.gov |
|-------------|--------------|--|--|

Project Number: BR 2012(703), etc
County: Gillespie
Highway: CR

Sheet:
Control: 0914-19-022, ETC

If utility lines need adjustments during construction operations, modify operations and continue the work in a manner that will allow others to make the utility adjustments. Additional working time may be allowed for delays caused by these utility adjustments.

Establish proposed centerlines throughout the project from control points and alignment data as shown on the plans.

Refer to the horizontal and vertical alignment data summaries for satellite-control point information.

Utility locations shown on the plans are approximate. Contact utilities in accordance with Article 5.5, "Cooperation of Contractor."

Verify survey control for accuracy before beginning construction. Notify Engineer if there are conflicts with survey control accuracy.

ITEM 6 - CONTROL OF MATERIALS

Article 6.5. Give a minimum of 24 hours of notice for materials, which require inspection at the plant.

ITEM 7 – LEGAL RELATIONS AND RESPONSIBILITIES

Article 7.19

Do not initiate activities in a Project Specific Location (PSL) associated with a U.S. Army Corps of Engineers (USACE) jurisdictional area that have not been previously evaluated by the USACE as part of the permit review of this project. Such activities include, but are not limited to, haul roads, equipment staging areas, borrow and disposal sites. Associated defined here means materials are delivered to or from the PSL. The jurisdictional area includes all waters of the U.S. including wetlands or associated wetlands affected by activities associated with this project. Special restrictions may be required for such work. Consult with the USACE regarding activities, including Project Specific Locations (PSLs) that have not been previously evaluated by the USACE. Provide the Department with a copy of all consultations or approvals from the USACE before initiating activities.

Proceed with activities in PSLs that do not affect a USACE jurisdictional area if a self-determination has been made that the PSL is non-jurisdictional or proper USACE clearances have been obtained in jurisdictional areas or have been previously evaluated by the USACE as part of the permit review of this project. Document any determinations that their activities do not affect a USACE jurisdictional area. Maintain copies of their determinations for review by the Department or any regulatory agency.

The Contractor must document and coordinate with the USACE, if required, before any excavation hauled from or embankment hauled into a USACE jurisdictional area by either (1) or (2) below.

- (1) **Restricted Use of Materials for the Previously Evaluated Permit Areas.**
Document both the project specific location (PSL) and their authorization. Maintain

copies for review by the Department or any regulatory agency. When an area within the project limits has been evaluated by the USACE as part of the permit process for this project:

- a. Suitable excavation of required material in the areas shown on the plans and cross sections as specified in Item 110, Excavation, is used for permanent or temporary fill (Item 132, Embankment) within a USACE jurisdictional area;
- b. Suitable embankment (Item 132) from within the USACE jurisdictional area is used as fill within a USACE evaluated area; and,
- c. Unsuitable excavation or excess excavation [“Waste”] (Item 110, Excavation) that is disposed of at an approved location within a USACE evaluated area.

(2) Contractor Materials from Areas Other than Previously Evaluated Areas.

Provide the Department with a copy of all USACE coordination or approvals before initiating any activities in a jurisdictional area within the project limits that has not been evaluated by the USACE or for any off right of way locations used for the following, but not limited to, haul roads, equipment staging areas, borrow and disposal sites:

- a. Item 132, Embankment, used for temporary or permanent fill within a USACE jurisdictional area; and,
- b. Unsuitable excavation or excess excavation [“Waste”] (Item 110, Excavation) that is disposed of outside a USACE evaluated area.

The total area estimated to be disturbed for this project is 2.20 acres – 0914-19-022, 0.35 acres – 0914-19-030, 0.58 acres – 0914-19-015, 0.6 acres – 0914-19-031 and 0.47 acres – 0914-19-026. The disturbed area in this project, all project locations in the Contract, and the Contractor project specific locations (PSLs), within 1 mile of the project limits, for the Contract will further establish the authorization requirements for storm water discharges. The Department will obtain an authorization to discharge storm water from the Texas Commission on Environmental Quality (TCEQ) for the construction activities shown on the plans. The Contractor is to obtain required authorization from the TCEQ for Contractor PSLs for construction support activities on or off the ROW. When the total area disturbed in the Contract and PSLs within 1 mile of the project limits exceeds 5 acres, provide a copy of the Contractor NOI for PSLs on the ROW to the Engineer and to the local government that operates a separate storm sewer system.

This project required formal consultation, permits, or both with environmental resource agencies. Environmentally sensitive areas will most likely be encountered on Contractor designated PSLs for this project.

TxDOT has assumed a U.S. Army Corps of Engineers’ (USACE) Nationwide Permit #14 (NWP #14) for this project. This allows a maximum of $\frac{1}{10}$ of an acre of permanent fill to be placed within the creek channel. If more than $\frac{1}{10}$ of an acre will need to be filled, a pre-construction notice will need to be completed and mailed to the USACE or an additional permit will need to be obtained, by the Contractor, prior to construction. If temporary access roads will be needed, adhered to the requirement of NWP #14 and restore all disturbed areas be to their original contours, once construction is complete.

Project Number: BR 2012(703), etc
County: Gillespie
Highway: CR

Sheet:
Control: 0914-19-022, ETC

A project that requires a USACE permit must use at least one of the Best Management Practices (BMP) from each category listed on the Texas Commission on Environmental Quality (TCEQ) Section 401 checklist for NWP's. The erosion control BMP for this project would be blankets/matting. The post construction total suspended solid control BMP for this project would be vegetative filter strips. The sedimentation control BMP for this project would be silt fences and rock berms.

Do not park equipment or make stockpiles where driver sight distance to businesses and side street intersections is obstructed, especially after work hours. If it is necessary to park where drivers' views are blocked, make every effort to flag traffic accordingly. Give the travelling public first priority.

Maintain positive drainage for permanent, as well as, temporary drainage for the duration of the project. This work is the sole responsibility of the Contractor. Construct temporary and permanent drainage systems prior to the placement of temporary pavement, when possible, but absolutely prior to the placement of permanent pavement. Be responsible for any items associated with the temporary/interim drainage and all related maintenance. No direct payment will be made for this work. The Engineer will have the final authority in determining/approving the adequacy of any temporary/permanent drainage features installed.

Migratory Birds

The Contractor's attention is directed to the fact that there is the possibility that migratory birds may be nesting within the project limits. Migratory bird nesting activity can be concentrated on roadway structures such as bridges and culverts. Remove all old migratory bird nests from any structures between September 1 and January 31, and while the nests are not occupied or being used by migratory birds. In addition, be prepared to prevent migratory birds from re-nesting between February 1 and August 31.

All methods used for the removal of old bird nests and the prevention of re-nesting must be approved by the Engineer, well in advance of the planned use.

In the event that any active nest of a migratory bird species is encountered on-site during project construction, all construction activity, within the immediate vicinity of the nest, will cease immediately. Contact the Engineer to determine how to proceed.

No blasting on this project, unless otherwise allowed.

Concrete truck drivers and concrete pump operators are required to wash out only in designated areas specifically constructed for eliminating run-off. Dispose of materials in accordance with federal, state, and local requirements.

Project Number: BR 2012(703), etc
County: Gillespie
Highway: CR

Sheet:
Control: 0914-19-022, ETC

ITEM 8 – PROSECUTION AND PROGRESS

Article 8.3C. Work is allowed to be performed during the nighttime, with prior approval.

Article 8.5

In accordance with Article 8.11, disincentives for failure to substantially complete the milestone(s) will be applied

The road-user cost liquidated damages for Milestone 1 is \$2,400 per day.

Substantially complete Milestone 1 in 22 working days, Not starting before June 9th and finishing by August 15th.

The time charges for Milestone 1 will begin upon closing Goehmann Lane.

The time charges for Milestone 1 will end upon opening Goehmann Lane.

ITEM 9 – MEASUREMENT AND PAYMENT

Provide full-time, off-duty, uniformed, certified peace officers in officially marked vehicles, as part of traffic control operations, as directed.

Show proof of certification by the Texas Commission on Law Enforcement Standards.

No payment will be made for peace officers unless the Contractor completes the proper Department tracking form. Submit invoices that agree with the tracking form for payment at the end of each month, when approved services were provided. Request the tracking form from the Department.

No payment for officers used for moving equipment without prior written approval.

Cancel “Off-Duty” Peace Officers and their Motor Vehicle Units when the Scheduled lane closures are canceled. Failure to cancel the Off Duty Officers and their respective Motor Vehicle Units will not be cause for payment, by TxDOT, for "Show Up" time.

In accordance with Article 9.1, “Measurement of Quantities,” furnish the tare and maximum gross weights as well as the volume capacity of all vehicles, trucks, truck-tractors, trailers, semi-trailers, or combination of such vehicles used to deliver materials for this Contract. Also, furnish calculations supporting these weights and capacities. Provide all measurements required for pay a minimum of 2 days before the trucks are used.

ITEM 100, 132 & 160 - PREP ROW, EMBANKMENT, & TOPSOIL

Do not burn brush, unless otherwise approved.

Use hand methods or other means to remove objectionable material and obstructions, if doing work by mechanical methods is impractical. Consider subsidiary to the pertinent Items.

Project Number: BR 2012(703), etc
County: Gillespie
Highway: CR

Sheet:
Control: 0914-19-022, ETC

ITEM 100 - PREPARING RIGHT OF WAY

Treat cuts on trees with an approved tree wound dressing within 20 minutes of making a pruning cut or otherwise causing damage to the tree, as directed. Consider subsidiary to the pertinent Items.

ITEM 110 & 132 – EXCAVATION & EMBANKMENT

Unsuitable material encountered in a cut or fill section will be considered waste. The Engineer will define unsuitable material. Material, which the Contractor might deem to be unsatisfactory or unsuitable, due to moisture content, will not be considered unsuitable material, unless otherwise approved.

Obtain approval of all compaction equipment prior to all backfilling and embankment operations.

Excavation and embankment for driveways, intersections, and crossovers will not be paid for directly, but will be subsidiary to the various bid items unless otherwise shown on the plans.

ITEM 132 - EMBANKMENT

Work to correct unstable material (e.g. dry, wet, loose, etc.) to a depth of 6" below existing subgrade elevation, prior to beginning any embankment placement. Consider subsidiary to the various bid Items. Any work to correct unstable material below the 6" depth, below existing subgrade elevation, will be paid as extra work. However, there will be no payment to correct failures, in the subgrade areas, that were constructed under this contract.

Track ALL embankment slopes left idle for more than 14 days, within or at the end of the 14-day idle period, to prevent erosion. Tracking consists of operating a tracked vehicle or equipment up and down the slope, leaving track marks perpendicular to the direction of the slope. Retrack slopes after rain event, as directed. Consider tracking of slopes to prevent erosion as subsidiary to the pertinent Items.

Correct subgrade (e.g. unstable areas, soft spots, etc.) prior to the dumping of Flexbase or HMA CP. Consider subsidiary to the pertinent Items.

Scarify and re-compact existing asphaltic/base sections, which are not called out to be removed in fill sections, where the bottom of the proposed pavement structure is higher than and over the top of the existing asphalt surface, in order to reduce the possibility of a slip plane.

For embankments that are thicker than 5 feet in depth, project excavation can be used in the lifts up to 5 feet below the calculated subgrade crown, unless near a backwall or other structure, as directed.

ITEM 160 - TOPSOIL

Obtain approval of all topsoil sources before digging begins. Ensure off-site topsoil has a minimum PI of 25, or as directed. Ensure that the topsoil placed is similar to the topsoil that is within the project. To the extent possible, obtain as much of the topsoil from within the project

Project Number: BR 2012(703), etc
County: Gillespie
Highway: CR

Sheet:
Control: 0914-19-022, ETC

site, or as directed. TxDOT reserves the right to take samples, as needed, to assure that the material meets the PI and other requirements as indicated in the Specifications (Fertility, Organics, Erodability, etc.).

No Sandy Loam allowed, unless the project dictates otherwise.

Obtain approval of the actual depth of the topsoil sources for both on-site and off-site sources.

Construct topsoil stockpiles of no more than five (5) feet in height.

It is permissible to use topsoil dikes for erosion control berms within the right of way, as directed.

Track ALL topsoiled slopes left idle for more than 14 days, within or at the end of the 14-day idle period, to prevent erosion. Tracking consists of operating a tracked vehicle or equipment up and down the slope, leaving track marks perpendicular to the direction of the slope. Retrack slopes after rain event, as directed. Consider the tracking of slopes to prevent erosion as subsidiary to the pertinent Items.

Upon final grading, immediately track all topsoiled slopes to prevent erosion, prior to seeding operations, as directed. Consider subsidiary to the pertinent Items.

Provide measurements for payment of topsoil quantities before seeding. Consider subsidiary to the pertinent Items.

Place Topsoil in accordance with the SW3P, in phases, as partial completion of the roadway is obtained.

ITEM 164 – SEEDING FOR EROSION CONTROL

Obtain vegetation establishment of all seeded areas, including adequate coverage, prior to “Final Acceptance.” If all other work is complete, time charges may be suspended, until adequate coverage is established.

Do not use ryegrass for temporary cover.

Reseed all areas with “little or no” grass growth after 1 month from the last seeding date, as directed. Consider subsidiary to the various bid Items.

Provide measurements for payment of seeding for erosion control quantities before seeding. Consider subsidiary to the pertinent Items.

ITEM 166 – FERTILIZER

Use 13-13-13 fertilizer analysis, unless otherwise directed. Take soil samples, as directed, to determine the actual soil needs for fertilizer. Consider this work subsidiary to pertinent Items.

Project Number: BR 2012(703), etc
County: Gillespie
Highway: CR

Sheet:
Control: 0914-19-022, ETC

Sample the topsoil, as directed, to determine the actual fertilizer analysis and application rate and apply according to recommendations. Consider this work subsidiary to pertinent Items.

ITEM 168 – VEGETATIVE WATERING

Water all areas of project to be seeded or sodded.

Maintain the seedbed in a condition favorable for the growth of grass. Watering can be postponed immediately after a rainfall on the site of ½ inch or greater, but will be resumed before the soil dries out. Continue watering until final acceptance.

Vegetative watering rates and quantities are based on ¼ inch of watering per week over a 3-month watering cycle. The actual rates used and paid for will be as directed and will be based on prevailing weather conditions to maintain the seedbed.

Obtain water at a source that is metered or furnish the manufacturer's specifications showing the tank capacity for each truck used. Notify the Engineer, each day that watering takes place, before watering, so that meter readings or truck counts can be verified.

ITEM 169 – SOIL RETENTION BLANKETS

Provide machined mat of curled wood excelsior of 80%, six-inch or longer fibers. The top of each blanket is covered with a photodegradable extruded plastic mesh. For the weight requirements, (lbs/sq yd), of the matting see DMS 6370, typical roll width = 48 or 96 inches; typical roll length = 90 feet. This soil retention blanket should meet the previous stated requirements, equal, or better as approved.

Use materials from prequalified material producers list as shown on the Texas Department of Transportation (TxDOT) ----- Construction Divisions (CST) materials producers list. See TxDOT website ([www.txdot.gov/Business with TxDOT > Materials Information > Material Producer List](http://www.txdot.gov/Business%20with%20TxDOT%20Materials%20Information%20Material%20Producer%20List)) for list of pre-qualified manufacturers.

http://www.dot.state.tx.us/business/contractors_consultants/producer_list.htm

Direct all questions to the Maintenance Division, Vegetation Management Section, 125 E. 11th Street, Austin, TX 78701-2483.

ITEM 204 - SPRINKLING

Apply water for dust control as directed. When dust control is not being maintained, cease operations until dust control is maintained. Consider subsidiary to the pertinent Items.

ITEM 216 - PROOF ROLLING

Correct and perform "Proof Rolling" retest at the Contractor's expense, to the satisfaction of the Engineer, when initial "Proof Rolling" yields a failing result.

ITEM 247 - FLEXIBLE BASE

Furnish Type A material.

Furnish flexible base meeting Grade 5 requirements.

The following table will govern the acceptance of compaction on base courses, when compacted in multiple courses. Compaction requirements are in percent of maximum dry density as determined by (Tex-113-E). When compacting in a single course, compact to at least 100% of maximum dry density as determined by Tex-113-E.

| Item | Material | All Roadways | |
|------|--------------------|----------------|-------------|
| | | Lift | Min Density |
| 247 | FL BS (CMP IN PLC) | 1 | 98% |
| | | 2 (final lift) | 100% |

Use Flex Base (CMP IN PL) (TY A GR 5) for driveways, minor streets, and other locations as directed.

Correct subgrade (e.g. unstable areas, soft spots, etc.) prior to the dumping of Flex Base. Consider subsidiary to the pertinent Items.

Roll shoulder base with a light pneumatic roller to prevent erosion.

Complete all subgrade, ditches, slopes, and place all drainage structures to conform to required lines, grades, and cross-sections, as shown and directed, prior to the placement of Flex Base.

For Flex Base placed over the box culverts, do not use a Vibratory Roller to compact the material.

ITEM 251 – REWORKING BASE COURSES

Reclaim and compact existing asphalt concrete pavement in fill sections where the bottom of the proposed pavement structure is higher than, and over the top of, the existing asphalt surface in order to reduce the possibility of a slip plane.

ITEM 300 – ASPHALTS, OILS, AND EMULSIONS

Asphalt season starts May 1 and ends September 15.

ITEM 302 – AGGREGATES FOR SURFACE TREATMENTS

Previously tested aggregates delivered to the project, which are found to contain excessive quantities of dust (more than 0.5 percent passing the no. 40 sieve) during pre-coating, stockpiling or hauling operations, will be rejected, unless otherwise directed. Use test method Tex-200-F, Part II, for testing.

Article 302.2. Materials, Section A. Aggregate. Table 3 Los Angeles abrasion, % max, is revised with the following requirement:

**Table 3
Aggregate Quality Requirements**

| Property | Test Method | Requirement | Requirement |
|------------------------------|-------------|-------------|----------------|
| Los Angeles abrasion, %, max | Tex-410-A | 30 | All aggregates |

Project Number: BR 2012(703), etc
County: Gillespie
Highway: CR

Sheet:
Control: 0914-19-022, ETC

ITEM 310, 316

Perform work during good weather, unless otherwise directed. If work is performed at Contractor's option, when inclement weather is impending, and the work is damaged by subsequent precipitation, the Contractor is responsible for all costs associated with replacing the work, if required.

ITEM 310 – PRIME COAT

Apply blotter material to all driveways and intersections.

Use bituminous material of the type MC and grade 30.

Any oil or asphaltic material being paid for on the project shall use tank strap method as shown in TxDOT Seal Coat and Surface Treatment Manual 2004-1.

ITEM 316 – SURFACE TREATMENTS

Do not apply asphalt within 1½ hours of sunset, or later, unless otherwise directed.

Ensure the accuracy of the Distance Measuring Instrument (DMI) with the Engineer, prior to marking the Asphalt and Rock Land shots.

Ensure that all Surface Treatment/Seal Coat Operations are covered by HMA CP before the workers leave the project, for that particular day's work, as directed.

Ensure the minimum aggregate surface classification is class B.

Apply both the first and second course of the two course surface treatment on the same day. Roll before opening to traffic.

Surface all transitions, tapers, climbing lanes and intersections to the limits as directed.

Keep all traffic, including construction traffic, off freshly placed surface treatment, as directed.

Distribution to each control section will be proportioned to the volumetric quantity as shown on the "daily road report."

Any oil or asphaltic material being paid for on the project shall use tank strap method as shown in TXDOT Seal Coat and Surface Treatment Manual 2004-1.

All transports will have a seal affixed at the point of origin. The Engineer will be present when the seal is broken on the Transport and will accept the shipping tickets and make distribution to the Contractor.

Project Number: BR 2012(703), etc
County: Gillespie
Highway: CR

Sheet:
Control: 0914-19-022, ETC

ITEM 400 - EXCAVATION AND BACKFILL FOR STRUCTURES

Cut pavements with the use of a saw as directed. Consider subsidiary to pertinent Items.

Obtain approval of all compaction equipment prior to all backfilling and embankment operations.

ITEM 416 - DRILLED SHAFT FOUNDATIONS

Stake all Foundations, for approval, before beginning drilling operations, as directed.
Remove spoils, daily, out of flood plain, or as directed.

Take one core hole at each abutment and bent, as directed.

Collect all cuttings, spoils, and slurry resulting from drilled shaft operations and deposit material into a storage tank for disposal outside the limits of the project. Dispose of waste material in accordance with Section 416.3.G, "Additional Requirements for Slurry Displacement or Underwater Concrete Placement Methods."

ITEM 420, 432, 462, 466, & 467

Remove all loose Formwork and other Materials from the Floodplain or drainage areas, daily, which could float off in a Stormwater Event, as directed.

ITEM 420 - CONCRETE STRUCTURES

Use Permanent Metal Deck Forms (PMDF) or prestressed concrete panels.

Do not use PMDF in areas where a "Free Joint" is indicated in the plans.

The "H" values shown on Bridge Layouts are estimated column heights. Calculate the actual column heights based on field conditions.

Perform work during good weather unless otherwise directed. If work is performed at Contractor's option, when inclement weather is impending, and the work is damaged by subsequent precipitation, the Contractor is responsible for all costs associated with replacing the work, if required.

Prior to the completion of work, stencil the National Bridge Inventory (NBI) number (structure number) on each structure built/shown on this project, as directed. Verify with the Engineer that the NBI number, which is shown on each Bridge Layout, is the number to use. Stencil the NBI number in an approved location on each bridge. Consider subsidiary to the pertinent Items.

Do not use membrane curing for structural elements.

In-water placements are allowed.

Provide weepholes at bridge ends in the wingwalls as directed.

Project Number: BR 2012(703), etc
County: Gillespie
Highway: CR

Sheet:
Control: 0914-19-022, ETC

Provide a Class II surface treatment the roadway slab, inside face of rail and any other areas shown on the detail sheets.

ITEM 421 - HYDRAULIC CEMENT CONCRETE

Sulfate resistant concrete is not required from any class of concrete.

Over-design requirements for compressive strength are waived for non-structural concrete, as defined in Table 5, Item 421.4. Construction. A.

Minimum air-entrainment requirements are waived for all classes of concrete, except for Class S, DC, or CO concrete. For all classes of concrete, except for Class S, P, DC or CO concrete or non-structural concrete, as defined in Table 5, the entrained air content must not exceed 8% air.

For all non-pavement applications using Class S, DC or CO concrete, target 5.5% entrained air. If the air content exceeds the target air content by more than 3 percentage points, the load of concrete will be rejected.

National Ready Mix Concrete Association (NRMCA) plant certifications are waived for concrete classes not identified as structural concrete in Table 5, Item 421.4. Construction. A. The Engineer will inspect and approve all plants and trucks.

ITEM 425 - PRECAST CONCRETE STRUCTURAL MEMBERS Hold a Prephase meeting for the erection of concrete members such as, Precast-Prestressed Concrete Beams, Precast-Prestressed Concrete Panels, , etc., prior to the work, as directed.

ITEM 427 - SURFACE FINISHES FOR CONCRETE

Consider Surface Finishes for concrete as subsidiary to the pertinent Items.

For Surface Area I: Perform the Rub Finish as soon as possible after form removal. Complete the finish application within 5 calendar days from the pour date. Should the completion of the finish work fall behind, or exceed the 5-day period, pours of any additional structures will cease, until such time as the surface finish of existing structures is completed.

Provide a Surface Area I, **Rub Finish** to all concrete structures, except those with form liner surfaces.

Submit a containment plan that details the procedures and type and size of equipment proposed to keep public property, private property and the environment from being adversely affected by the cleaning and painting operations. Approval of the plan is required before cleaning and painting operations begin. Provide a system capable of collecting all falling paint chips and other debris. Store, characterize, and dispose of all recovered debris in accordance with 30 TAC 335, "Industrial Solid Waste and Municipal Hazardous Waste." Discharge liquids in accordance

Project Number: BR 2012(703), etc
County: Gillespie
Highway: CR

Sheet:
Control: 0914-19-022, ETC

with the TCEQ Texas Pollution Discharge Elimination Program (30 TAC 305, “Effluent Guidelines and Standards for TPDES Permits”) and Texas Surface Water Quality Standards (30 TAC 307). Alternatively, liquids may be captured, stored, and characterized for disposal at an authorized facility in accordance with 30 TAC 315, “Pretreatment Regulation for Existing and New Sources of Pollution,” or 30 TAC 335, “Industrial Solid Waste and Municipal Hazardous Waste.”

ITEM 428 - CONCRETE SURFACE TREATMENT

Provide a Concrete Surface Treatment Class II (Silane) for Bridge Slabs in accordance with DMS 8140.

ITEM 432 - RIPRAP

Make 5-inches thick unless otherwise noted or directed.

Make all mow strip riprap four (4) inches, unless otherwise directed.

Where any proposed riprap joins existing riprap, saw cut the existing riprap and dowel/epoxy the joint as directed. Consider subsidiary to the pertinent Items.

Additional riprap may be required, as determined by the Engineer, near the end of project completion, due to unanticipated erosion locations. Any additional, approved riprap will be paid under this Item.

Consider saw cutting of riprap as subsidiary.

For cement stabilized riprap provide aggregate conforming to Item 247, “Flexible Base”.

Filter fabric to be installed with all stone protection or Type R Stone Riprap.

ITEM 454 - BRIDGE EXPANSION JOINTS

Apply protection System II to structural steel armor joint.

For Header-Type Expansion Joints, go to the following TxDOT website for approved systems:
http://www.txdot.gov/business/contractors_consultants/bridge/expansion_joints.htm

For Asphalt-Plug Expansion Joints, go to the following TxDOT website for approved systems:
http://www.txdot.gov/business/contractors_consultants/bridge/expansion_joints.htm

ITEM 462, 464, 466, 467

When RCP or structure is to be placed below finished roadway subgrade and there is less than three foot of fill from top of RCP to finished subgrade elevation, then Flowable fill is required, as directed. Payment made under Item 401.

ITEM 462 - CONCRETE BOX CULVERTS AND STORM DRAINS

Project Number: BR 2012(703), etc
County: Gillespie
Highway: CR

Sheet:
Control: 0914-19-022, ETC

Provide Shop Drawings, signed and sealed by a Licensed Professional Engineer, for all precast box culverts. Indicate the appropriate design load as shown on the plans (HS20 or HS25) and the maximum design depth of fill.

Use cohesionless backfill material of aggregate size range of 3/8-inch to 1 1/2-inch, for bedding material.

ITEM 466 - HEADWALLS AND WINGWALLS

Removal of existing headwalls and wingwalls will be considered subsidiary to pertinent Items.

Use Class C concrete for headwalls or wingwalls.

ITEM 467 - SAFETY END TREATMENT

Cut pipe ends, in the field, to match roadway side slopes, or as directed. Apply asphalt base aluminum paint to the cut ends.

All Type II SET's shall have mitered pipe ends and cast-in-place riprap aprons.

Use Class C concrete.

ITEM 496 - REMOVING STRUCTURES

The Contractor's attention is directed to the fact that migratory birds tend to concentrate nesting on transportation structures. If migratory bird nests are present within the project limits, remove all old migratory bird nests only between September 1 and January 31 from any structure where work will be done. In addition, be prepared to prevent migratory birds from building nests between February 1 and August 31.

All methods used for the removal of old bird nests and the prevention of re-nesting must be approved by the Engineer, well in advance of the planned use.

In the event that any active nest of migratory birds is encountered on-site during project construction, all construction activity, within the immediate vicinity of the nest, will cease immediately. Contact the Engineer to determine how to proceed.

Notify TxDOT at least **30** prior to any Bridge Removal that will require a 10-Calendar-Day, Prior-To-Work Notification to Texas Department of State Health Services (DSHS). If the work does not happen on the notified date then another 10-Calendar-Day, Prior-To-Work Notification will be required.

Provide a detailed plan for the removal of the existing structure(s) to include the schedule of removal and list of all equipment to be used.

No demolition work over, around, or in the **Pedernales River, Palo Alto Creek and Barons Creek** will be allowed to proceed until the Engineer has approved the

Project Number: BR 2012(703), etc
County: Gillespie
Highway: CR

Sheet:
Control: 0914-19-022, ETC

Demolition Plan. There may be other requirements associated with this item, to be determined dependent on the Demolition Plan submitted.

Include a Traffic Control Plan (TCP) for any Structure(s) Removal, as directed.

The structure or structures to be removed may have surface coatings, which may contain hazardous materials. Provide for the safety and health of employees and abide by all OSHA Standards and Regulations as well as those set by Texas Department of State Health Services (DSHS).

The structural steel to be removed may contain lead paint. Submit a proposed demolition plan for approval by the Engineer at least 60 days prior to the desired demolition date. Demolition plan should limit disturbing where lead paint is located when possible. If flame cutting methods will be used and lead paint cannot be avoided, the Department will arrange to have the paint removed at the indicated flame-cutting locations. The paint will be removed by a separate contractor for a width of 4". No paint removal will be required if other demolition methods are employed.

ITEM 502 - BARRICADES, SIGNS, AND TRAFFIC HANDLING

Present to TxDOT, an Lane Closure Notice (LCN) for traffic control, which is proposed for implementation, a minimum of four (4) full working days preceding any proposed implementation date. Indicate the estimated date, time, duration, and location for the proposed work. As a part of the LCN submit a written description of the lane closure(s) depicting the proposed traffic control devices used, based on the appropriate plan sheet, TxDOT or TMUTCD standards, and an operational description of the work to be performed.

Present to TxDOT, LCN's proposed to detour traffic, a minimum of *seven (7)* full calendar days preceding any proposed implementation date.

Present to TxDOT, LCN's proposed for night work, a minimum of *seven (7)* full calendar days preceding any proposed implementation date.

Receive concurrence prior to LCN implementation.

Meet with the Engineer prior to roadway and lane closures to ensure that sufficient equipment, materials, devices, and workers will be used. Discuss contingency plans at that time. Consider inclement weather prior to implementing the lane closures.

Submit a cancellation of any lane closures, no later than noon on the day preceding the proposed work.

Coordinate Main Lane closures with adjacent projects.

Project Number: BR 2012(703), etc
County: Gillespie
Highway: CR

Sheet:
Control: 0914-19-022, ETC

Obtain prior approval for any Lane Closures of the mainlanes, which occur during peak hours. Maintain a minimum of 1 lane(s) open, in each direction, at all times. This includes 'full' closures of the Roadway, unless otherwise directed.

Take immediate action to modify Closures / Traffic Control, if at any time backup (roadway queuing) becomes unreasonable (greater than 20 minutes). Have in place, a contingency plan of how this will occur.

Do not set up any Lane Closure / TCP when the pavement is wet prior to the "setup," unless otherwise directed. Revise Traffic Control, when inclement weather is imminent, as directed.

Incorporate and maintain a 3H: 1V safety wedge into the proposed construction for any roadway edge of 2 inches or greater adjacent to a roadway under traffic.

Within the limits of the project, provide standard barricades, warning signs, delineators, lights, 28-inch cones, and flaggers in enough numbers and combinations, as directed.

Use a minimum of 2 flaggers, 2 advance warning flashing arrow panels (TY C), 2 of each signs CW20-5TR or CW20-5TL with appropriate distance plaques and CW9-2TR or CW9-2TL and 28-in. cones at each location in which milling or paving operations are in progress. Maintain at least 1 lane of traffic in each direction during paving or milling operations. Maintain at least the minimum numbers of lanes as directed.

No Lane Closures on the Roadway that significantly reduce the level-of-service.

For Mainlanes use night-work and same-night remove-and-replace operations.

No closures will be allowed on the weekends, which include the following holidays: January 1, the last Monday in May, July 4, the first Monday in September, the fourth Thursday in November, December 25, Easter weekend, and the working day prior to or immediately after any of the aforementioned holidays. Unless otherwise approved, no closures will be allowed on the weekends of special events that could be impacted by the construction. Ensure all equipment, vehicles, workers, etc., associated with these closures are off the roadways and all lanes re-opened, at least, by noon of the Friday before these holidays and special events.

Place 2 "Electronic" Portable Changeable Message Signs (EPCMS) at locations requiring lane closures for one-week prior to the closures, or as directed. Obtain approval for the actual message that will appear on the boards. If more than two phases of a message are required per board, provide additional EPCMS's to meet the two-phases-per-board requirement.

Use advance warning flashing arrow panels for the closing of traffic lanes. Furnish one stand-by unit, in good working condition at the jobsite, ready for immediate use.

Maintain access to all streets and driveways at all times, unless otherwise approved. Consider subsidiary to the pertinent Items.

Furnish advisory speed signs in enough numbers as directed.

Project Number: BR 2012(703), etc
County: Gillespie
Highway: CR

Sheet:
Control: 0914-19-022, ETC

Maintain enough workers to revise traffic control as directed.

Provide a “Downstream” Buffer Space ($\approx 100'$ per lane with devices spaced at $\approx 20'$) for each lane closure setup, as directed.

Maintain construction-warning signs, which are needed for longer periods than what is shown on the traffic control plan or as directed. Consider subsidiary to the pertinent Items.

Cover or remove any existing sign(s), which conflict with temporary traffic control operations. Install all permanent signs, delineation, and object markers necessary for the operation of any roadway before opening that section of roadway to traffic, regardless of the phase during which the roadway construction occurs. Erect the signs on temporary mounts until the permanent mounts are installed. Consider any costs associated with the temporary mounts subsidiary. Repair or replace any signs, which are damaged by the Contractor’s operations during construction or which are deemed not sufficient. The Engineer will be the sole judge of the adequacy of the sign(s). Consider this work subsidiary to the pertinent Items.

Provide 2 “Electronic” Portable Changeable Message Sign(s) (EPCMS) as part of the traffic control operations and provide another one that is available to utilize when a backup is needed. Consider the one designated for backup as subsidiary to the various Items of the project. All EPCMS will be exclusive to this project, unless otherwise approved. Placement location and message as directed.

Maintain Sandbags that are used for ballast, as directed. Consider subsidiary to the pertinent Items.

Provide at least one employee on call nights and weekends (or any other time that work is not in progress) for maintenance of signs and traffic control devices. This employee must have an address and telephone number near the project, as approved. Notify the Engineer in writing of the name, address, and telephone number of this employee. The Engineer will furnish this information to local law enforcement officials.

In addition to providing a Contractor’s Responsible Person and a phone number for emergency contact, have an employee available to respond on the project for emergencies and for taking corrective measures within 30 minutes.

Refer to the traffic control plan sheets for traffic handling through the work area. Contractor may vary the signing arrangement and spacing as necessary to fit field conditions; however, any proposed changes in the traffic control plan must be approved before implementation.

When the sequence of work is shown on the plans, the Contractor may submit an alternate proposal for approval. Submit in writing all proposed variations and revisions.

High-visibility safety apparel is required for workers in accordance with the General Notes on current BC standards.

Project Number: BR 2012(703), etc
County: Gillespie
Highway: CR

Sheet:
Control: 0914-19-022, ETC

Unless otherwise approved, lane closures for minor or major construction operations will not be allowed on Good Friday, Easter weekend, Memorial Day, Memorial Day weekend, July 4th, Labor Day, Labor Day weekend, Thanksgiving Day thru Sunday, Christmas Eve, Christmas Day, New Year's Eve, New Year's Day, or on any other high traffic days or holidays as determined by the Engineer.

Maintain existing roadside signs within this project's limits during this Contract. In order to accommodate the grading or other operations, temporarily relocate these signs in accordance with the TMUTCD as directed. This work will not be paid for directly, but will be subsidiary to Item 502.

Provide a truck-mounted attenuator (TMA) on the trailing vehicle as shown on the appropriate traffic control plan sheets. Provide a letter certifying that all TMA's used on this project meet the NCHRP 350 requirements.

Regulate all construction activities and equipment to minimize inconvenience to the traveling public. At points where it is necessary for trucks to stop, load, or unload, provide warning signs and flaggers to protect the traveling public.

The pavement shall be entirely open to traffic each night. Remove or clearly barricade all material stockpiles, equipment left overnight, or any obstruction within 30 ft. of a travelway as approved.

Open the bridge and the adjacent approaches to thru traffic as soon as possible, but no later than 15 calendar days following the completion of the bridge deck, unless otherwise authorized.

Furnish and install the required signs as shown on the plans for rerouting traffic at each location. Notify the Engineer at least 15 days in advance of closing the road at each of the applicable locations in order to allow adequate time for the Department to install detour signing. Provide other signing at each location as shown in the plans.

All pavement markings, warning signs, and traffic control devices shown on the traffic control plan sheets pertaining to the detour areas should be in place prior to opening the detours to the traveling public.

Place Type III barricades and road closed signs as shown on current BC standards across the closed roadway or the new location at each road, street, closed bridge, and along the closed roadway or new location at 3/4-mi. intervals.

All work required by these general notes, except as provided for by Item 502, will not be paid for directly, but will be subsidiary to Item 502 unless otherwise shown on the plans.

ITEM 1122 - TEMPORARY EROSION, SEDIMENTATION, AND ENVIRONMENTAL CONTROLS

Project Number: BR 2012(703), etc
County: Gillespie
Highway: CR

Sheet:
Control: 0914-19-022, ETC

Obtain the Engineer's approval for proposed methods used for erosion control before starting each phase of construction.

Stockpile 4-inch by 8-inch (4" x 8") rock for emergency erosion control use, as directed. Place this rock in ditches and other areas, as directed. The Contractor will be reimbursed in accordance with Pertinent Items or Article 9.5, "Force Account."

Place temporary sediment fence at locations where large roadside guide signs are installed. In addition, place temporary sediment fence at those locations where existing large guide signs and structures are to be removed.

Double-bag all sandbags used for erosion control Items. Consider subsidiary to pertinent Items.

ITEM 512 - PORTABLE CONCRETE TRAFFIC BARRIER

Provide PCTB to be used for traffic control purposes.

Pressure grout holes will not be required for barrier used solely for traffic control purposes.

Consider any PCTB, which needs to be relocated or realigned, for any of various reasons, by a horizontal distance of 12 feet or less, subsidiary to the pertinent Items, unless otherwise agreed with the Engineer in writing. If new placement is different, vertically, from the original locations, then payment will be made as "Move." Consult with the Engineer prior to performing any "Move" Item of PCTB and Low Profile CTB (LPCTB).

Any increase in temporary barrier quantities that occur due to Contractor changes in the sequence of work or the traffic control plan will not be paid by the State, unless agreed to, in writing, before the change occurs.

Stockpile the PCTB/LPCTB and connecting hardware within the limits of the project, as directed, or at a location of equal or less than the original haul distance, as directed, upon completion of this project. (The original haul distance may include the haul distance from the Supplier, as directed/determined by the Engineer.) Bundle the connecting hardware to prevent theft or loss at a storage facility designated by the Engineer. Point and patch damaged barrier as directed.

Deliver all of the PCTB/LPCTB Connection Hardware to the Area Office or other location, as directed.

At the beginning of a project, if no hardware is available, furnish all necessary hardware to install the portable barrier. Reimbursement will be made through Item 9, Force Account, as directed

ITEM 530 – INTERSECTIONS, DRIVEWAYS, AND TURNOUTS

Notify property owners a minimum of 48 hours in advance of beginning work on their driveways. Provide, to TxDOT, a list of each notification and contact prior to each closure.

Project Number: BR 2012(703), etc
County: Gillespie
Highway: CR

Sheet:
Control: 0914-19-022, ETC

Provide access, at all times, to adjacent property. Construct driveways one-half sections, to allow access.

Do not completely close driveways for reconstruction purposes, unless a reasonable alternate access exists to the property, as approved.

Place the Flex Base for the Driveways using Ordinary Compaction.

ITEM 540 - METAL BEAM GUARD FENCE

Adjust the limits of the Metal Beam Guard Fence (MBGF) to meet field conditions, as directed, before erection.

Before beginning the installation of the proposed MBGF, stake the locations for approval.

Furnish new, round, domed and unpainted timber posts. Furnish steel posts at locations where the minimum embedment shown on the plans for wooden posts cannot be achieved. Field verify the steel post lengths before fabrication. Consider the steel posts subsidiary to pertinent Items.

Install all permanent MBGF and delineators, when the roadway is constructed in one-half widths, on that section, before opening the road to traffic.

If the existing MBGF will remain in its current, horizontal, location, after the overlay(s) has (have) been done, adjust MBGF Posts and Rail Elements to coordinate with the particular overlay(s). Payment will be made according to specification Item 540.5.Payment.D.Guard Rail Fence Adjustment.

ITEM 542 – REMOVING METAL BEAM GUARD FENCE

Deliver all removed MBGF Rail Elements and removed Steel Posts that TxDOT deems as reusable, to TxDOT within a 50 mile radius of the project, as directed. Consider this work subsidiary to the various Items.

ITEM 552 – WIRE FENCE

Attach the permanent fence to the end of the proposed structures designated on the plans and as shown on standard sheets WF(1) / WF(2).

Any temporary fencing required during construction of the proposed structure extensions or bridge replacements will not be paid for directly, but will be subsidiary to the various bid items.

Construct and maintain temporary fencing and gates at the locations and limits shown on the plans. Furnish temporary fencing and gates with material and design equal to or better than the present fencing, and adequate to properly control livestock for the duration of the project.

Project Number: BR 2012(703), etc
County: Gillespie
Highway: CR

Sheet:
Control: 0914-19-022, ETC

ITEM 585 - RIDE QUALITY FOR PAVEMENT SURFACES

Use Surface Test Type A to evaluate ride quality of travel lanes in accordance with Item 585, "Ride Quality for Pavement Surfaces."

ITEM 644 - SMALL ROADSIDE SIGN SUPPORTS AND ASSEMBLIES

Fabricate all small signs not detailed on the plans in conformance with the latest edition of the "Standard Highway Sign Designs for Texas."

http://www.txdot.gov/txdot_library/publications/highway_signs.htm

ITEM 658 - DELINEATOR AND OBJECT MARKER ASSEMBLIES

Accept ownership of unsalvageable delineator and object marker assemblies and remove from the right of way.

ITEM 662, 666, & 672

Notify the Engineer at least 24 hours in advance of removing existing striping and placing pavement markings & markers.

Apply markings during good weather unless otherwise directed. If markings are placed at Contractor's option, when inclement weather is impending, and the markings are damaged by subsequent precipitation, the Contractor is responsible for all costs associated with replacing the markings if required.

ITEM 662 - WORK ZONE PAVEMENT MARKINGS

Place temporary pavement markings each night, as directed. Temporary flexible-reflective tabs will not be allowed as temporary pavement marking on the various roadways, unless otherwise approved.

If Temporary Flexible Reflective Tabs are allowed replace any missing tabs daily. If tabs are used, replace tabs at the Contractor's expense.

Remove work zone pavement markings within 48 hours after permanent striping has been completed.

Foil backed pavement markings will not be allowed.

ITEM 666 - REFLECTORIZED PAVEMENT MARKINGS

Apply Type I ReflectORIZED Pavement Markings no sooner than 14 days after applying the final course of HMA, unless otherwise directed.

Reference existing channel islands, gores, and lane striping before commencing work. Provide referencing that will include a sketch of the layout to the Engineer. Obtain approval for

Project Number: BR 2012(703), etc
County: Gillespie
Highway: CR

Sheet:
Control: 0914-19-022, ETC

placement of guidemarks from the Engineer before installing any permanent pavement markings. Consider subsidiary to the pertinent Items.

Ensure that Type II pavement markings have been applied to final course HMA CP before the workers leave the project, for that particular day's work, as directed.

If TY II material is used (vs. an acrylic or epoxy) as the sealer for the TY I markings, place the TY II a minimum of 14 calendar days (to provide adequate curing) before placing the TY I markings.

Furnish double drop of TY II & TY III glass beads for all TY I markings.

ITEM 672 - RAISED PAVEMENT MARKERS

Place the bituminous adhesive at a temperature range of 380°F to 390°F. Place the pavement marker on the bituminous adhesive approximately 20 seconds after the adhesive is placed on the pavement. Ensure the pavement marker rests solely on the adhesive and not the pavement surface. Ensure that a minimum of 1/8 in. layer of bituminous adhesive remains between the pavement marker and the pavement surface.

ITEM 677 - ELIMINATING EXISTING PAVEMENT MARKINGS AND MARKERS

Remove and dispose of, off the right of way, any existing raised pavement markings before beginning surfacing operations. Remove the existing traffic buttons and pavement markers, daily, as work progresses and as directed. Consider subsidiary to the pertinent Items.

Grinding is not an acceptable method of stripe removal.

Blast cleaning is required for the removal of existing pavement markings.

Black paint will not be allowed, unless otherwise directed. Acceptable methods will be sand blasting (Blasting Method) or strip sealing (Surface Treatment Method).

CONTROL : 0914-19-022, ETC
PROJECT : BR 2012(703), ETC
HIGHWAY : CR
COUNTY : GILLESPIE

TEXAS DEPARTMENT OF TRANSPORTATION

GOVERNING SPECIFICATIONS AND SPECIAL PROVISIONS

ALL SPECIFICATIONS AND SPECIAL PROVISIONS APPLICABLE TO THIS PROJECT ARE IDENTIFIED AS FOLLOWS:

STANDARD SPECIFICATIONS: ADOPTED BY THE TEXAS DEPARTMENT OF
----- TRANSPORTATION JUNE 1, 2004.
STANDARD SPECIFICATIONS ARE INCORPORATED
INTO THE CONTRACT BY REFERENCE.

- ITEMS 1 TO 9 INCL., GENERAL REQUIREMENTS AND COVENANTS
- ITEM 100 PREPARING RIGHT OF WAY (103)
- ITEM 104 REMOVING CONCRETE
- ITEM 106 OBLITERATING ABANDONED ROAD
- ITEM 110 EXCAVATION (132)
- ITEM 132 EMBANKMENT (100)(204)(210)(216)(400)
- ITEM 160 TOPSOIL
- ITEM 164 SEEDING FOR EROSION CONTROL (162)(166)(168)
- ITEM 168 VEGETATIVE WATERING
- ITEM 169 SOIL RETENTION BLANKETS
- ITEM 247 FLEXIBLE BASE (105)(204)(210)(216)(520)
- ITEM 310 PRIME COAT (300)(316)
- ITEM 316 SURFACE TREATMENTS (210)(300)(302)
- ITEM 400 EXCAVATION AND BACKFILL FOR STRUCTURES (132)(401)(420)
(421)
- ITEM 403 TEMPORARY SPECIAL SHORING (423)
- ITEM 416 DRILLED SHAFT FOUNDATIONS (420)(421)(440)(448)
- ITEM 420 CONCRETE STRUCTURES (400)(404)(421)(426)(427)(438)(440)
(441)(448)
- ITEM 422 REINFORCED CONCRETE SLAB (420)(421)(424)(426)(430)(440)
- ITEM 425 PRECAST PRESTRESSED CONCRETE STRUCTURAL MEMBERS (420)
(421)(424)(426)(427)(434)(440)(442)
- ITEM 432 RIPRAP (247)(420)(421)(427)(431)(440)
- ITEM 450 RAILING (420)(421)(424)(440)(441)(442)(445)(446)(448)
(540)
- ITEM 454 BRIDGE EXPANSION JOINTS (429)(442)
- ITEM 459 GABIONS AND GABION MATTRESSES
- ITEM 462 CONCRETE BOX CULVERTS AND STORM DRAINS (400)(420)(421)
(424)(440)(464)(476)
- ITEM 464 REINFORCED CONCRETE PIPE (400)(476)

ITEM 466 HEADWALLS AND WINGWALLS (400)(420)(421)(430)(440)(464)
 ITEM 467 SAFETY END TREATMENT (400)(420)(421)(430)(432)(440)(445)
 (460)(464)
 ITEM 496 REMOVING STRUCTURES (430)
 ITEM 500 MOBILIZATION
 ITEM 502 BARRICADES, SIGNS, AND TRAFFIC HANDLING
 ITEM 512 PORTABLE CONCRETE TRAFFIC BARRIER (420)(421)(424)(440)
 (442)
 ITEM 530 INTERSECTIONS, DRIVEWAYS, AND TURNOUTS (247)(260)(263)
 (275)(276)(292)(316)(330)(334)(340)(360)(421)(440)
 ITEM 540 METAL BEAM GUARD FENCE (421)(441)(445)(529)(542)(544)
 ITEM 542 REMOVING METAL BEAM GUARD FENCE
 ITEM 544 GUARDRAIL END TREATMENTS
 ITEM 644 SMALL ROADSIDE SIGN SUPPORTS AND ASSEMBLIES (421)(440)
 (441)(442)(445)(634)(636)(643)(656)
 ITEM 658 DELINEATOR AND OBJECT MARKER ASSEMBLIES (445)
 ITEM 662 WORK ZONE PAVEMENT MARKINGS (666)(668)(672)(677)
 ITEM 666 REFLECTORIZED PAVEMENT MARKINGS (316)(318)(662)(677)(678)
 ITEM 672 RAISED PAVEMENT MARKERS (677)(678)
 ITEM 681 TEMPORARY TRAFFIC SIGNALS (628)(680)

SPECIAL PROVISIONS: SPECIAL PROVISIONS WILL GOVERN AND TAKE
 ----- PRECEDENCE OVER THE SPECIFICATIONS ENUMERATED
 HEREON WHEREVER IN CONFLICT THEREWITH.

REQUIRED CONTRACT PROVISIONS, FEDERAL-AID CONSTRUCTION CONTRACTS
 (FORM FHWA 1273, MAY, 2012)

WAGE RATES

SPECIAL PROVISION "NOTICE TO ALL BIDDERS" (000---003)
 SPECIAL PROVISION "NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO
 ENSURE EQUAL EMPLOYMENT OPPORTUNITY" (000---004)
 SPECIAL PROVISION "STANDARD FEDERAL EQUAL EMPLOYMENT OPPORTUNITY
 CONSTRUCTION CONTRACT SPECIFICATIONS" (000---006)
 SPECIAL PROVISION "CERTIFICATION OF NONDISCRIMINATION IN EMPLOYMENT"
 (000---009)
 SPECIAL PROVISION "DEPARTMENT DIVISION MAILING AND PHYSICAL ADDRESS"
 (000---011)
 SPECIAL PROVISION "NOTICE OF CHANGES TO U.S. DEPARTMENT OF LABOR
 REQUIRED PAYROLL INFORMATION" (000--1483)
 SPECIAL PROVISION "ON-THE-JOB TRAINING PROGRAM" (000--2638)
 SPECIAL PROVISION "DISADVANTAGED BUSINESS ENTERPRISE IN FEDERAL AID
 CONTRACTS" (000--1966)
 SPECIAL PROVISION "PARTNERING" (000--2329)
 SPECIAL PROVISION "SCHEDULE OF LIQUIDATED DAMAGES" (000--2332)
 SPECIAL PROVISION "NONDISCRIMINATION" (000--2607)
 SPECIAL PROVISION "IMPORTANT NOTICE TO CONTRACTORS" (000--2839)
 (000--2857)
 SPECIAL PROVISION TO ITEM 1 (001---015)
 SPECIAL PROVISION TO ITEM 2 (002---017)
 SPECIAL PROVISION TO ITEM 3 (003---033)
 SPECIAL PROVISION TO ITEM 4 (004---017)
 SPECIAL PROVISION TO ITEM 5 (005---004)

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|--------------------|-------------------------------|------|-------------|-------------|
| SPECIAL PROVISIONS | TO ITEM | 6 | (006---030) | (006---047) |
| SPECIAL PROVISION | TO ITEM | 7 | (007---918) | |
| SPECIAL PROVISIONS | TO ITEM | 8 | (008---006) | (008---119) |
| SPECIAL PROVISIONS | TO ITEM | 9 | (009---009) | (009---015) |
| SPECIAL PROVISION | TO ITEM | 100 | (100---002) | |
| SPECIAL PROVISION | TO ITEM | 161 | (161---006) | |
| SPECIAL PROVISION | TO ITEM | 164 | (164---002) | |
| SPECIAL PROVISION | TO ITEM | 166 | (166---001) | |
| SPECIAL PROVISION | TO ITEM | 169 | (169---002) | |
| SPECIAL PROVISION | TO ITEM | 247 | (247---033) | |
| SPECIAL PROVISION | TO ITEM | 260 | (260---003) | |
| SPECIAL PROVISION | TO ITEM | 275 | (275---003) | |
| SPECIAL PROVISION | TO ITEM | 300 | (300---039) | |
| SPECIAL PROVISION | TO ITEM | 302 | (302---010) | |
| SPECIAL PROVISION | TO ITEM | 316 | (316---016) | |
| SPECIAL PROVISION | TO ITEM | 318 | (318---010) | |
| SPECIAL PROVISION | TO ITEM | 330 | (330---001) | |
| SPECIAL PROVISION | TO ITEM | 360 | (360---003) | |
| SPECIAL PROVISION | TO ITEM | 420 | (420---002) | |
| SPECIAL PROVISION | TO ITEM | 421 | (421---035) | |
| SPECIAL PROVISION | TO ITEM | 424 | (424---003) | |
| SPECIAL PROVISION | TO ITEM | 425 | (425---001) | |
| SPECIAL PROVISION | TO ITEM | 429 | (429---008) | |
| SPECIAL PROVISION | TO ITEM | 431 | (431---001) | |
| SPECIAL PROVISION | TO ITEM | 434 | (434---003) | |
| SPECIAL PROVISION | TO ITEM | 440 | (440---006) | |
| SPECIAL PROVISION | TO ITEM | 441 | (441---008) | |
| SPECIAL PROVISION | TO ITEM | 442 | (442---016) | |
| SPECIAL PROVISION | TO ITEM | 448 | (448---002) | |
| SPECIAL PROVISION | TO ITEM | 450 | (450---001) | |
| SPECIAL PROVISION | TO ITEM | 454 | (454---003) | |
| SPECIAL PROVISION | TO ITEM | 462 | (462---015) | |
| SPECIAL PROVISION | TO ITEM | 464 | (464---006) | |
| SPECIAL PROVISION | TO ITEM | 476 | (476---003) | |
| SPECIAL PROVISION | TO ITEM | 500 | (500---011) | |
| SPECIAL PROVISION | TO ITEM | 502 | (502---033) | |
| SPECIAL PROVISION | TO ITEM | 512 | (512---002) | |
| SPECIAL PROVISION | TO ITEM | 530 | (530---006) | |
| SPECIAL PROVISION | TO ITEM | 540 | (540---031) | |
| SPECIAL PROVISION | TO ITEM | 544 | (544---001) | |
| SPECIAL PROVISION | TO ITEM | 628 | (628---003) | |
| SPECIAL PROVISION | TO ITEM | 636 | (636---014) | |
| SPECIAL PROVISION | TO ITEM | 643 | (643---001) | |
| SPECIAL PROVISION | TO ITEM | 672 | (672---034) | |
| SPECIAL PROVISION | TO ITEM | 681 | (681---002) | |
| SPECIAL PROVISION | TO SPECIAL SPECIFICATION ITEM | 1122 | (1122--001) | |
| SPECIAL PROVISION | TO SPECIAL SPECIFICATION ITEM | 6834 | (6834--002) | |

SPECIAL SPECIFICATIONS:

ITEM 1122 TEMPORARY EROSION, SEDIMENTATION, AND ENVIRONMENTAL
CONTROLS (161)(432)(556)

ITEM 6834 PORTABLE CHANGEABLE MESSAGE SIGN

GENERAL: THE ABOVE-LISTED SPECIFICATION ITEMS ARE THOSE UNDER WHICH
----- PAYMENT IS TO BE MADE. THESE, TOGETHER WITH SUCH OTHER
PERTINENT ITEMS, IF ANY, AS MAY BE REFERRED TO IN THE ABOVE-
LISTED SPECIFICATION ITEMS, AND INCLUDING THE SPECIAL
PROVISIONS LISTED ABOVE, CONSTITUTE THE COMPLETE SPECIFI-
CATIONS FOR THIS PROJECT.

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