



COLLIN COUNTY, TEXAS

ADDENDUM No. Two (2)

IFB NO. 06292-10

INVITATION FOR BIDS

FOR

Construction, Road: Outer Loop Access Road, US 75 to SH 121

DATE: October 18, 2010

NOTICE TO ALL PROSPECTIVE BIDDERS:

YOU ARE HEREBY DIRECTED TO MAKE CHANGES TO THE INVITATION FOR BIDS IN ACCORDANCE WITH THE ATTACHED INFORMATION.

ADD: Engineer's Addendum 2 Documents

ADD: Questions and Answers as of October 15, 2010

The goetech report will be available on Bidsync or at the office of the engineer.

If you require the Earthwork Data in .XSR format send an email to mdobecka@collincountytx.gov

PLEASE NOTE ALL OTHER TERMS, CONDITIONS, SPECIFICATIONS DRAWINGS, ETC. REMAIN UNCHANGED.

SINCERELY,
FRANKLIN YBARBO
PURCHASING AGENT

Question and Answers for Bid #06292-10 - Construction, Road: Outer Loop Access Road, US 75 to SH 121

OVERALL BID QUESTIONS

Question 1

The proposed typical sections call for 8" Reinforced Concrete. The standard given for the paving is Pg. 108 CPCD-94. Can you clarify which one is to be used? **(Submitted: Sep 27, 2010 8:57:42 AM CDT)**

Answer

- The contractor should use the Standard CPCD-94 on PG 108 for concrete paving. The proposed CPCD-94 pavement is not continually reinforced but is reinforced at the edges of the panels. **(Answered: Sep 28, 2010 1:37:14 PM CDT)**

Question 2

what is the engineers estimate? **(Submitted: Sep 27, 2010 2:54:12 PM CDT)**

Answer

- 12,000,000 **(Answered: Sep 28, 2010 1:37:14 PM CDT)**

Question 3

The policy limits required for the Owners Protective Policy are very high compared to other jurisdictions. In fact our main insurer is indicating that we must get supplemental coverage to get the the \$ 15,000,000 limit indicated in the proposal. Is that what the Tollroad Authority wants? **(Submitted: Sep 27, 2010 3:05:59 PM CDT)**

Answer

- We are currently researching. **(Answered: Oct 5, 2010 4:44:31 PM CDT)**
- The insurance requirement is correct. **(Answered: Oct 13, 2010 9:41:29 AM CDT)**

Question 4

Are the Clearing & Grubbing Limits the same as the Cut/Fill Limits as shown on the SWPPP drawings? **(Submitted: Sep 28, 2010 3:45:41 PM CDT)**

Answer

- See Sheet 6, Proposed Typical Section, for limits of Preparing ROW. On the side of the Centerline Future CCOL the limit shall be 5 ft beyond the cut/fill limits shown on the SWPPP sheets. **(Answered: Oct 1, 2010 3:05:31 PM CDT)**

Question 5

The quantity for Precast Traffic Barrier (PCTB) seems to be more than what is stated on sheet 13(Traffic Control Summary). SH 5 Traffic Control Drawings 33-34 Phase 1 Stage 1B and Drawing 37-38 Phase 1 Stage II show more than 420ft. Please Verify? **(Submitted: Sep 28, 2010 3:48:59 PM CDT)**

Answer

- The PCTB quantities at SH 5 have been checked and revised. An addendum will be issued to correct the quantities. **(Answered: Oct 1, 2010 3:05:31 PM CDT)**

Question 6

Bridge Summary for CL C Concrete Bents quantity appears to be high. Pleas Verify? **(Submitted: Sep 28, 2010 3:49:55 PM CDT)**

Answer

- The CL C Concrete Bent quantity should be 37.6 CY. An addendum will be issued to correct the quantities. **(Answered: Oct 1, 2010 3:05:31 PM CDT)**

Question 7

Is the Reinforcing Steel for the Bridge Deck to be Epoxy Coated or Uncoated? **(Submitted: Sep 28, 2010 3:53:25 PM CDT)**

Answer

- The reinforcing steel for the bridge deck shall be epoxy coated. **(Answered: Oct 1, 2010 3:05:31 PM CDT)**

Question 8

There is no bid item for Field Office and Laboratory for this project. (Item 504) Will there be any Contractor Required Facilities for the project? **(Submitted: Sep 28, 2010 3:58:18 PM CDT)**

Answer

No Contractor Required Facilities are included in the project. (Answered: Oct 1, 2010 3:05:31 PM CDT)

Question 9

Is a Computer Generated Bid Form allowed to be turned in as a Hard Copy? (Submitted: Sep 28, 2010 4:00:00 PM CDT)

Answer

- A computer generated bid schedule will be accepted but it must be in the same format and order as the forms in the spec book for consistency. Bidder will still need to complete and sign the bid form as presented in the spec book. (Answered: Oct 5, 2010 4:44:08 PM CDT)

Question 10

The channel slope ratio is needed to figure the length of the wingwalls at the box culverts. Please provide this information. (Submitted: Oct 5, 2010 9:34:51 AM CDT)

Answer

- For channel side slope ratios at culvert wingwalls refer to the Box Culvert Supplement sheet, Page 167. (Answered: Oct 5, 2010 1:17:45 PM CDT)

Question 11

1) Is the Bid Item 506 for Inlet Protection paid per EACH or by LF. (Submitted: Oct 5, 2010 4:36:30 PM CDT)

Answer

- Silt Fence for Inlet Sediment Traps shall be paid for by LF. An addendum will be issued to correct the quantity sheet. (Answered: Oct 5, 2010 4:37:23 PM CDT)

Question 12

2) How much would it cost the contractor to pay DART for providing a "Railroad Flagger"? (Submitted: Oct 5, 2010 4:36:58 PM CDT)

Answer

- The Railroad Flagger Services will be billed by the Railroad directly to Collin County. The item will be removed from the bid quantities with an addendum. (Answered: Oct 5, 2010 4:37:23 PM CDT)

Question 13

can they provide a time determination schedule (Submitted: Oct 5, 2010 5:14:21 PM CDT)

Answer

- We are currently cleaning up the schedule and hope to release it by the end of the week. (Answered: Oct 13, 2010 8:22:31 AM CDT)

Question 14

Is it possible to obtain electronic earth data in a .XSR format (Submitted: Oct 5, 2010 5:16:01 PM CDT)

Answer

- The earthwork data in .XSR format will be available on the BidSync website or upon request from HNTB. (Answered: Oct 8, 2010 3:08:48 PM CDT)
- CORRECTION: please email mdobecka@collincountytx.gov to receive the earthwork data. (Answered: Oct 8, 2010 3:35:16 PM CDT)

Question 15

Will they accept an excel spreadsheet (form that we use for TXDOT projects) to be submitted with the bid documents (Submitted: Oct 5, 2010 5:18:18 PM CDT)

Answer

- Please see answer to question 9. (Answered: Oct 8, 2010 3:08:48 PM CDT)

Question 16

Is there a separate form that is required to be submitted to comply with "Bidder's Qualifications" (Submitted: Oct 5, 2010 5:20:24 PM CDT)

Answer

- Please elaborate. (Answered: Oct 8, 2010 3:08:48 PM CDT)

Question 17

ITEM 495-REMOVE STR(BUILDING) 12EA.Please provide additional information related to this item, If hazardous materials are encountered,who is responsible for handling those. (Submitted: Oct 5, 2010 5:23:44 PM CDT)

Answer

- Hazardous materials are not expected on the project. If encountered the County will assume responsibility for handling and clean up. **(Answered: Oct 13, 2010 8:22:31 AM CDT)**

Question 18

Is it possible to get a copy of the geotech report? **(Submitted: Oct 6, 2010 1:02:08 PM CDT)**

Answer

- A copy of the Geotech Report will be available on the BidSync website on Friday. **(Answered: Oct 8, 2010 8:11:28 AM CDT)**

Question 19

The item 247 spec is Type A Gr 4 which is "as shown on the plans". I don't see on the plans where the specifications for the Flex base are. Can you clarify? Also can Type D be substituted in lieu of Type A? **(Submitted: Oct 7, 2010 9:15:57 AM CDT)**

Answer

- Item 247 for Flex Base will be revised to Type A GR 1 in an addendum. Type D material will not be allowed to be substituted. **(Answered: Oct 8, 2010 8:11:27 AM CDT)**

Question 20

The plan sheets show numerous soil boring locations, but they have not provided us with the bore logs... please provide bore log data **(Submitted: Oct 7, 2010 10:36:12 AM CDT)**

Answer

- A copy of the Geotech Report with the Bore Logs is available on the BidSync website or upon request from HNTB. **(Answered: Oct 8, 2010 3:08:48 PM CDT)**

Question 21

How is the full depth HMA section to be paid? Notes call for Type "B" Level Up and Type "C" 64-22 to be paid as Items 341. There are no items 341. **(Submitted: Oct 7, 2010 11:39:02 AM CDT)**

Answer

- Full Depth HMA Section has been revised and a new sheet will be included in the addendum. **(Answered: Oct 8, 2010 3:08:48 PM CDT)**

Question 22

Please provide cross sections for detour paving and driveway paving. **(Submitted: Oct 7, 2010 11:39:47 AM CDT)**

Answer

- The cross sections for the detour paving and driveway paving have been provided on the Traffic Control Narrative and Driveway Details sheets respectively in Addendum #1. **(Answered: Oct 8, 2010 3:08:48 PM CDT)**

Question 23

Bid item 140, CL C CONC APPRO SLABS indicates using Class C concrete. The BAS-C plan calls for Class S concrete. Which is correct? **(Submitted: Oct 7, 2010 11:50:43 AM CDT)**

Answer

- Bid Item 140 will be revised to show CL S CONC APPRO SLABS in an addendum. **(Answered: Oct 8, 2010 3:08:48 PM CDT)**

Question 24

Please verify/confirm the answer to question number one. No other entities in the area are constructing new pavements utilizing that standard. If that is the intent, please add some language (like Dallas County uses) that clarifies the levels of acceptability for surface cracking. **(Submitted: Oct 8, 2010 7:04:30 AM CDT)**

Answer

- The response to Question #1 has been revised. The proposed concrete frontage road pavement shall be Continuously Reinforced Concrete Pavement as specified in the CRCP(1)-09 standard. An addendum will be issued to replace the standard. **(Answered: Oct 8, 2010 3:08:48 PM CDT)**

Question 25

The Geotech reports are all based on CRCP pavement not the CPCD. Please review. **(Submitted: Oct 8, 2010 10:12:18 AM CDT)**

Answer

- The proposed concrete frontage road pavement shall be Continuously Reinforced Concrete Pavement as specified in the CRCP(1)-09 standard. An addendum will be issued to replace the standard. **(Answered: Oct 8, 2010 3:08:48 PM CDT)**

Question 26

Sheet 65 shows some "seal coat" and the TCP Narrative references this as the final construction element. How is this work measured and paid? **(Submitted: Oct 8, 2010 10:17:44 AM CDT)**

Answer

- Seal Coat area at SH 5 shall be resurfaced with the 2" D-GR HMA (TY-D) with FOG SEAL (SS-1) as shown on the Proposed Typical Section. The Seal Coat areas at US 75 and SH 121 will be resurfaced with FOG SEAL (SS-1) only. The changes will be reflected in Addendum #2. **(Answered: Oct 13, 2010 8:22:31 AM CDT)**

Question 27

Please confirm (or not) that the Fog Seal (SS-1) item is intended for the prime on lime subgrade. **(Submitted: Oct 8, 2010 10:19:17 AM CDT)**

Answer

- A Prime Coat (MC-30) bid item has been added to the quantities for use on the Flex Base layer of the Asphalt Pavement sections at a rate of 0.25 GAL/SY. The Fog Seal (SS-1) is specified as a final surface treatment for the Asphalt Pavement sections. The changes will be reflected in Addendum #2. **(Answered: Oct 13, 2010 8:22:31 AM CDT)**

Question 28

There are approximately 2,035 linear feet of "construction safety fence" required on sheets 79-81. I didn't locate a detail for this item. Please clarify what we are to provide for this requirement. **(Submitted: Oct 8, 2010 10:20:47 AM CDT)**

Answer

- The contractor shall use a 48" high orange safety fence secured with wire or zip ties to T-Post stakes spaced 12 ft on center. The contractor shall install and maintain the fence throughout the duration of adjacent construction activities. A detail will be released in an addendum. **(Answered: Oct 8, 2010 3:08:48 PM CDT)**

Question 29

do you have a list of the mandatory pre bid sign in sheet? **(Submitted: Oct 8, 2010 10:39:39 AM CDT)**

Answer

- It will be included in addendum no. 1 **(Answered: Oct 8, 2010 10:41:15 AM CDT)**

Question 30

I did not locate any details for construction of the 11' direct drive culvert, other than a precast standard for a single 11' box. Are we to assume that you want that culvert built as Precast? **(Submitted: Oct 8, 2010 11:01:56 AM CDT)**

Answer

- The culvert is to be constructed using the SCP-11 standard for single box culverts precast 11'-0" span. TxDOT does not have a standard for a multiple box culvert with 11' spans. **(Answered: Oct 13, 2010 8:22:31 AM CDT)**

Question 31

In addition to the question asked as #3, the requirement extends to subcontractors. That is likely not an option for many of the subcontractors around. Please clarify. Also, how does the language regarding the Collin County Detention Facility come into play in this contract? **(Submitted: Oct 8, 2010 1:06:10 PM CDT)**

Answer

- Subcontractors can be placed on your policy as additional insured. Please disregard the detention facility language. **(Answered: Oct 8, 2010 1:16:54 PM CDT)**

Question 32

notes from the pre-bid indicate the topic of "e-Verification" was discussed. Please elaborate. **(Submitted: Oct 8, 2010 1:09:46 PM CDT)**

Answer

- Please see section 1.54 of specification 00200. Also, here is a link for more information: http://www.dhs.gov/files/programs/gc_1185221678150.shtm **(Answered: Oct 8, 2010 1:16:54 PM CDT)**

Question 33

Item 007---001 Insurance Requirements, Will the contractor be required to provide "Pollution Legal Liability Insurance" as detailed in Special Provisoin subparagraph 5 in the amount of \$5 million? and is this a requirement of the Railroad? **(Submitted: Oct 11, 2010 1:52:53 PM CDT)**

Answer

- Yes, the Railroad will require Pollution Legal Liability Insurance. **(Answered: Oct 15, 2010 1:19:12 PM CDT)**

Question 34

In reference to Question 16 – Is there a separate form that is required to be submitted to comply with "Bidder's Qualifications"? On Page 13 Section 1.8 Qualifications of Bidders Paragraph A. states the two low bidders apparent 1st and 2nd low bidders are to submit a properly executed Contractor's Qualification Statement as evidence to establish bidder's financial responsibility, experience and possession of such equipment as may be needed to prosecute the work in an expeditious, safe and satisfactory manner. Is there actually a "Contractor's Qualification Statement" Form that needs to be completed or do bidders just supply the numbered items in paragraph A and B. to complete this requirement? **(Submitted: Oct 12, 2010 7:34:49 AM CDT)**

Answer

- There is not a standard form. The 1st and 2nd low contractor must submit a document detailing all of the items requested in that section. **(Answered: Oct 12, 2010 8:35:08 AM CDT)**

Question 35

With regard to bid item #22 riprap (conc)(5in). Where is it? **(Submitted: Oct 12, 2010 9:13:23 AM CDT)**

Answer

- Item 432 Riprap (Conc)(5 IN) quantity of 567 CY can be found on the Ditch Schedule, sheets 187 to 189. See Miscellaneous Drainage Detail sheet number 196 for additional details. **(Answered: Oct 13, 2010 8:22:31 AM CDT)**

Question 36

With regard to Construction Agreement, p. 16, Section 4.4.2, A. – Indemnification. Duty to indemnify Owner from third party liability is imposed on sureties. Please delete the words "and his sureties" from the first line of Section 4.4.2, A. **(Submitted: Oct 12, 2010 11:31:14 AM CDT)**

Answer

- Paragraph language will stay as written. **(Answered: Oct 15, 2010 1:25:08 PM CDT)**

Question 37

Is it acceptable to mobilize a backhoe to the site for the excavation of test pits some time this week? **(Submitted: Oct 12, 2010 11:45:50 AM CDT)**

Answer

- Yes, see SECTION 00200 INSTRUCTIONS TO BIDDERS, 1.3 EXAMINATION OF DOCUMENTS AND SITE for requirements and guidelines. The County requests the contractor submit a map showing proposed excavation locations before beginning work. Map may be submitted to mdobecka@collincountytx.gov **(Answered: Oct 13, 2010 1:42:30 PM CDT)**

Question 38

Sheet 168 shows 28' of 24" Drill Shafts for the TY G Signs, but I didn't locate an item for it. **(Submitted: Oct 12, 2010 3:12:26 PM CDT)**

Answer

- For payment of the drill shafts see Bid Item 416 for 28 LF of DRILL SHAFT (SIGN MTS)(24 IN). **(Answered: Oct 13, 2010 1:42:30 PM CDT)**

Question 39

How is the concrete Riprap that goes in between the wings of SW-0,FW-0, and FW-S Headwalls going to be paid? Please refer to note 5 on the standard for FW headwall. **(Submitted: Oct 12, 2010 3:14:24 PM CDT)**

Answer

- The apron between the wingwalls will be paid for under Item 432 RIPRAP (CONC)(5 IN). The quantities will be revised in Addendum #2. **(Answered: Oct 13, 2010 1:42:30 PM CDT)**

Question 40

Item 636 requires unusual, non-standard performance warranties on the reflective sheeting, for a period of 3 years up to 10 years. Would Owner consider a shorter term warranty period (30 months as in Item 668)? Some sureties may not be able to guarantee obligations for such long periods of time due to re-insurance treaties and internal restrictions. **(Submitted: Oct 12, 2010 3:31:13 PM CDT)**

Answer

- The requirements specified under Item 636 match those specified in the TxDOT DMS-8300 for the Minimum Performance Period. The proposed large guide signs are to be installed on TxDOT ROW and will become TxDOT property. **(Answered: Oct 15, 2010 1:19:12 PM CDT)**

Question 41

Will the Contractor keep ownership of the portable CTB that is to be removed from the project? **(Submitted: Oct 12, 2010 3:31:29 PM CDT)**

Answer

- Yes, all PCTB will become the property of the contractor. **(Answered: Oct 13, 2010 1:42:29 PM CDT)**

Question 42

The only detail I found for the 4-10'x6' and 2-10'x8' is MC-10-23. Can we use a MC-10-7 since the fill height is under 7' feet? **(Submitted: Oct 13, 2010 8:50:02 AM CDT)**

Answer

- Yes, the MC-10-7 Standard will be provided in Addendum #2 to replace the MC-10-23 Standard. **(Answered: Oct 15, 2010 1:16:46 PM CDT)**

Question 43

Just to confirm the answer to Question 30, that is a DIRECT DRIVE culvert. Do you really want traffic on a precast box (joints)? **(Submitted: Oct 13, 2010 9:04:56 AM CDT)**

Answer

- Can you please provide the plan sheet number that specifies a direct drive culvert? **(Answered: Oct 13, 2010 9:40:55 AM CDT)**

Question 44

Based on General Notes for Item 340 is it the intent that RAP will not be allowed in the HMA base and/or underlayment? This is contrary to what TxDOT allows for these items. **(Submitted: Oct 13, 2010 1:57:39 PM CDT)**

Answer

- No RAP will be allowed on the project. **(Answered: Oct 13, 2010 2:48:50 PM CDT)**

Question 45

Addendum 1 Table 3 shows the Asphalt used for the base course is TY-B PG64-22. Bid Item 18 calls for TY-B PG70-22. Which is correct? **(Submitted: Oct 13, 2010 2:16:31 PM CDT)**

Answer

- Table 3 has been clarified and will be provided in Addendum #2. **(Answered: Oct 15, 2010 1:16:46 PM CDT)**

Question 46

Section 00410-Bid Form calls for a "Labor and Material Breakdown." Please expand your definition of "Labor and Material" and indicate under what category do "Construction Equipment and Subcontractors" fall. This is important to clarify as you indicate that subtotals of Labor and Material must add up to "Bid Grand Total." **(Submitted: Oct 13, 2010 4:29:53 PM CDT)**

Answer

- Labor would be payroll and material would be anything tangible needed to get the job done. **(Answered: Oct 15, 2010 1:25:08 PM CDT)**

Question 47

When do you anticipate that Addendum 2 will be issued? **(Submitted: Oct 13, 2010 4:34:36 PM CDT)**

Answer

- Either Friday, October 15 or Monday October 18. **(Answered: Oct 15, 2010 1:19:12 PM CDT)**

Question 48

The plans do not include a standard design sheet for an 11' X 10' cast in place box culvert. Is sheet MC-10-23 to be used for this box culvert? **(Submitted: Oct 14, 2010 9:08:42 AM CDT)**

Answer

- The culvert is to be constructed using the SCP-11 standard for single box culverts precast 11'-0" span. TxDOT does not have a standard for a multiple box culvert with 11' spans. **(Answered: Oct 15, 2010 1:40:01 PM CDT)**

Question 49

Are we allowed to burn on-site, and if so will it be trench burn or surface burn? **(Submitted: Oct 14, 2010 3:33:10 PM CDT)**

Answer

- Burning may be allowed on a limited basis depending on weather conditions. The contractor would need to discuss with County Fire Marshall. **(Answered: Oct 15, 2010 1:16:46 PM CDT)**

Question 50

Plan page 135 shows Existing 2-84" CMP to be Removed. Is this included in the STR PIPE Removal quantity of 218 LF? **(Submitted: Oct 14, 2010 4:28:58 PM CDT)**

Answer

- Yes, refer to Removal sheet #310 for additional details. See Summary Sheet #29 for removal summary table. **(Answered: Oct 15, 2010 1:16:46 PM CDT)**

Question 51

Please reference the insurance provisions (Paragraph 1.55) of the above reference contract.

C. Line 5: It is not possible to cover "bodily injury to or death to Owner's employees under a General Liability Policy. I assume Owner carries Workers' Comp coverage and I assume they will also give us a mutual waiver of subrogation somewhere in the contract. Is this assumption correct?

1. Lines 2, Asbestos Hazards are presently not insurable in General Liability Coverage; however, Asbestos Hazards are insurable in Contractor's Pollution Coverage. I suggest this provision be changed to Contractor's Pollution Coverage.

E. Are the limits of liability requested, \$15 M per occurrence and \$20 M aggregate the correct limits? Reference Line 6 & 7, does Owner want to limit marketing this coverage to one insurer, in our case Zurich, our General Liability insurer?

F. It is not possible to name Owner as additional insured in Umbrella Liability Insurance and also as insured in an Owner's Protective Liability Insurance because an Umbrella "follows form", in other words carries the same basic coverage as a General Liability Policy. Since Owner's Protective Coverage provides the same coverage as a General Liability Policy, Owner must select one or the other. Which Choice?

H. 1. (a) Owner cannot be named as additional insured in a Workers' Comp, General Liability, Umbrella, and Professional Liability Coverage if Contractor is required to provide Owner's Protective Coverage.

(c) Are we required to issue certificates of insurance to the very long list of "individuals, officers, commissions, divisions, departments, offices", etc. listed. Can Owner provide addresses so the appropriate certificates can be mailed out?

(d) See 1 (a) above.

(e) The requirement to cover all provisions of the contract concerning liability, duty and standard of care, is overly broad and I cannot possibly determine if "all" possible events are fully insurable in Contractor's General Liability Coverage. Owner will be provided Owner's Protective insurance to protect Owner's interest (Owner cannot be also named as an additional insured in Contractor's General Liability Coverage). **(Submitted: Oct 14, 2010 4:45:14 PM CDT)**

Answer

- Per the County's risk manager:

C Line 5: You should be able to, if the injury or death was a result of the contractor we will be filing on the contractors GL policy.

1 Line 2: That is fine, it can be in the pollution coverage.

E: Yes Line 6 and 7: This is up to the contractor

F: Owner's Protective

H.1(a): According to our agent this should not be a problem to be named in both but if they can't then being named in the owner's protective is fine.

(c) Just to the County

(d) See 1(a) above

(e) This is OK **(Answered: Oct 15, 2010 8:28:20 AM CDT)**

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NOTICE TO ALL BIDDERS:

This addendum is issued to make minor revisions and additions to the Plans and Specifications previously issued for bids on the above referenced project. The items amended are listed and described below. Additional documents are attached hereto as noted.

1. SECTION GN – GENERAL NOTES

A. Specification Data (Page 3) - Table 3 has been revised. See the attached revised page.

B. SPECIAL PROVISION 007-001 is amended with the attached sheet specifying Dallas Area Rapid Transit (DART) Contractor's Insurance Requirements. To clarify, since DART is the owner of the rail line and Dallas, Garland and Northeast Railroad (DGNO) is the current operator the insurance requirements of both must be met.

C. The following general note is added for Item 552 GATE (SPECIAL):

Item 552

For each GATE (SPECIAL) item the Contractor shall provide two 22.5 FT decorative wrought iron gates. Each Gate (Special) installation shall include two gate operators, one set of radio controls, five exit/safety induction loops and one digital entry keypad. The contractor shall use the following gate supplier (or a supplier approved by the property owner, Nelson Brothers Concrete):

Beco Tools, Inc.
DBA // Texas Gates
Ph: (940) 458-7921 / Fx: (940) 637-1135
www.texasgates.com

All labor, materials and equipment necessary to install the specified gates shall be subsidiary to Item 552 GATE (SPECIAL).

D. The general notes for **Item 636** and **Item 666** have been revised and the new sheet is included with the addendum.

2. BASE BID SCHEDULE

A. The Base Bid Schedule is removed and replaced in its entirety with the attached Base Bid Schedule.

3. PLANS

A. Proposed Typical Sections (Sheet #9) – Prime Coat (MC-30)(TYP) is to be added to the top of the 6" FL BS (TY A) layer on all Asphalt Pavement sections.

B. Roadway Summary (Sheet #14) – Pavement quantities have been revised.

C. Summary of Culvert Quantities (Sheet #18) – Riprap (CONC)(5 IN) quantity has been added for the wingwall aprons.

- D. Access Road Paving Plan & Profile (Sheet #65) – The callout for seal coat area at the intersection with the US 75 Northbound Frontage Road has been revised to Fog Seal (Typ).
 - E. Access Road Paving Plan & Profile (Sheet #85) – The callout for seal coat area at the intersection with SH 121 has been revised to Fog Seal (Typ).
 - F. Miscellaneous Roadway Details (Sheet #101) – A detail for the Construction Safety Fence has been added to the sheet.
 - G. MC-10-23 Standard (Sheet #217) – Replace with MC-10-7 Standard for Multiple Box Culverts, Cast-In-Place, 10'-0" Span from 0' to 7' Fill.
4. Construction Time Determination
- A. The documentation for the construction time determination has been attached.

Item	Description	Rate	Remarks
164	CELL FBR MLCH SEED(PERM)(URBAN)(CLAY)	80 lbs/acre Common Bermudagrass	Apply the rate of cellulose fiber mulch in accordance to the requirements shown in Item 164.3.C for clay soils.
168	VEGETATIVE WATERING	28,000 gal/ac/wk (1")	Apply water in multiple applications during the week. Minimum of 6 weeks during March thru May, and October.
168	VEGETATIVE WATERING	42,500 gal/ac/wk (1 1/12")	Apply water in multiple applications during the week. Minimum of 6 weeks during June thru September.
168	VEGETATIVE WATERING	7,000 gal/ac/wk (1/4)	Apply water in multiple applications during the week. Minimum of 4 weeks during November thru February.
260	LIME (HYD, COM, OR QK(SLURRY))	162 lbs/CY	
310	PRIME COAT (MC-30)	0.25 gal/SY	
315	FOG SEAL (SS-1)	0.10 gal/SY	
340	D-GR HMA(METH) TY-D SAC-B PG70-22	110 lbs/SY/in	HMAC used for the Asphalt Pavement final surface course.
340	D-GR HMA(METH) TY-B PG70-22	110 lbs/SY/in	HMAC used for the Concrete Pavement base course.
340	D-GR HMA(METH) TY-B PG64-22	110 lbs/SY/in	HMAC used for the Asphalt Pavement Stabilized Base course.

GENERAL:

All project specific submittals required for this contract must be submitted to the Engineer's office located at Collin County Engineering, 825 N. McDonald, Suite 160, McKinney TX 75069 for further processing.

The following firms are consultants to the Authority responsible for the design and construction of this project:

Design Engineer:	HNTB Corporation
Geotechnical Engineer:	Terracon Consultants, Inc
Construction Administration:	HNTB Corporation



CONTRACTOR'S INSURANCE REQUIREMENTS

Prior to the start of work or occupancy of premises under a License, Licensee's contractor agrees to procure and maintain at its sole cost and expense, the following types and amounts of insurance with an insurer or insurers and form satisfactory to Licensor who is herein defined to be **DALLAS AREA RAPID TRANSIT**. Where applicable, the operating railroad will be named as an additional insured. **DART staff will inform you which railroad(s), if any, are operating in the area of the proposed License agreement.** The railroads include one or more of the following: DALLAS GARLAND & NORTHEASTERN RAILROAD (DGNO), FORT WORTH & WESTERN RAILROAD COMPANY (FWWR) and KANSAS CITY SOUTHERN RAILWAY (KCS).

Licensee's contractor shall furnish an original Certificate of Insurance along with all endorsements for review and approval by DART's Risk Management Department with the following insurance as a minimum standard:

1) Comprehensive General Liability with Contractual Liability Endorsement

- Combined single limit of at least \$2,000,000.
- Licensor and Railroad are named as additional insureds (**Endorsement for ongoing operations CG 2010 or equivalent and for completed operations CG 2037 or equivalent**) without any qualifications or restrictions.
- Contractual liability endorsement must have exclusions for operations within 50 feet of railroad (**Endorsement 2417 or equivalent**) and for XCU hazards deleted.
- Waiver of subrogation (**Endorsement CG 2404 or equivalent**).
- Licensor must have 30 days notice of cancellation or modification.

2) Comprehensive Automobile Liability Policy

- Combined single limit of at least \$2,000,000.
- Licensor and Railroad are named as additional insureds (**Endorsement CA 0403 or equivalent**) without any qualifications or restrictions.
- Waiver of subrogation (**Endorsement CA 2089 or equivalent**).
- Licensor must have 30 days notice of cancellation or modification.

3) Workers' Compensation Insurance

- Providing Statutory Benefits under the Worker's Compensation Act of the State of Texas and/or any other State or Federal Law or Laws applicable to the Contractor's employees performing the work under this agreement.
- Employer's Liability Insurance with limits of liability of not less than \$500,000 each accident, \$500,000 each employee for disease and \$500,000 policy limit for disease.
- Endorsed with a Waiver of Subrogation (**Endorsement WC 42 03 04 or equivalent**), waiving the carrier's right of recovery under subrogation or otherwise from Licensor.

4) Railroad Protective Coverage

The Railroad, not DART, is to be listed as the insured on the certificate. The coverage is **not** required if the contractor's general liability limits are \$2,000,000 per occurrence and \$6,000,000 aggregate or higher **and** the contractor provides the **Contractual Liability Endorsement CG 2417**.

5) Licensee agrees to furnish Licensor with Certificates of Insurance (or, as and when Licensor may direct, copies of the actual insurance policies) as evidence of the coverages outline in 1), 2) and 3) above.

6) All coverage described in a License shall be in a form and content satisfactory to Licensor. No party, subject to the provisions of a License agreement, shall violate or knowingly permit to be violated any of the provisions of the policies of insurance described therein. All insurance should be provided by insurance companies with a Best's Rating of B+ or better.

Use Class "B" concrete for concrete medians and directional islands.

Item 540

Where MBGF posts fall on curb inlets, install steel posts in accordance with the low fill culvert post mounting option detail on TxDOT standard MBGF-03A. This work will be subsidiary to this item.

Item 636

Screened messages are not permitted. All messages are fabricated with reflecting sheeting materials that meet DMS-8300.

Provide performance warranty certificates for the following reflective sheeting used for sign face materials, except construction and maintenance work signs and barricades: seven (7) years plus 3 additional years with obligation for sheeting replacement only for Type C (all colors except orange) and Type IX; three (3) years for orange Type C; and five (5) years plus 2 additional years with obligation for sheeting replacement only for Type E.

Pre-approved manufacturers for sign face materials can be found at <http://www.dot.state.tx.us.business/materialproducerlist.htm>. Category is Sign Face Materials.

Items 644, 647, &/or 650

Prior to taking elevations to determine lengths for fabrication of sign posts and/or sign support towers, obtain verification of all proposed locations

After sign supports with signs attached have been erected, wash individual units requiring cleaning with an approved cleaning solution to remove all grease, oil, dirt, smears, streaks, and other foreign particles.

Item 666

Provide Type III Glass Traffic Beads that meet the requirements of Departmental Materials Specifications DMS-8290. Pre-approved manufacturers for glass traffic beads can be found at <http://www.dot.state.tx.us.business/materialproducerlist.htm>. Category is Pre-approved Glass Traffic Beads Type III Beads.

Item 668

Pre-approved manufacturers for prefabricated pavement markings can be found at <http://www.dot.state.tx.us.business/materialproducerlist.htm>. Category is Permanent Prefabricated Pavement Markers.

Provide thirty (30) months performance warranty certificate for Type Band C markings. This certificate will warranty the product will maintain a minimum reflectivity level of 200 mcd/m² /lux for white and 150 mcd /m² /lux for yellow.

**BASE BID SCHEDULE
 BOND PROJECT NO. 07-094
 COLLIN COUNTY OUTER LOOP ACCESS ROAD
 PAVING AND DRAINAGE IMPROVEMENTS
 US 75 TO SH 121**

BID ITEM	TXDOT ITEM	APPROX. QUANTITY	UNIT AND DESCRIPTION AND UNIT PRICE WRITTEN IN WORDS	TOTAL AMOUNT
1	100	243.82	STA PREPARING ROW _____ DOLLARS and _____ CENTS per Unit	\$ _____
2	105	9,020.00	SY REMOVING STAB BASE AND ASPH PAV (2" - 6") _____ DOLLARS and _____ CENTS per Unit	\$ _____
3	106	12.10	STA OBLITERATING ABANDONED ROAD _____ DOLLARS and _____ CENTS per Unit	\$ _____
4	110	134,870.00	CY EXCAVATION (ROADWAY) _____ DOLLARS and _____ CENTS per Unit	\$ _____
5	132	97,340.00	CY EMBANKMENT (FINAL)(DENS CONT)(TY C) _____ DOLLARS and _____ CENTS per Unit	\$ _____
6	160	184,265.00	SY FURNISHING AND PLACING TOPSOIL (4") _____ DOLLARS and _____ CENTS per Unit	\$ _____
7	162	19,877.00	SY BLOCK SODDING _____ DOLLARS and _____ CENTS per Unit	\$ _____
8	164	184,265.00	SY STRAW/HAY MLCH SEED(PERM)(URBAN)(CLAY) _____ DOLLARS and _____ CENTS per Unit	\$ _____
9	164	92,134.00	SY DRILL SEEDING (TEMP) (WARM) _____ DOLLARS and _____ CENTS per Unit	\$ _____

Signed _____

BID ITEM	TxDOT ITEM	APPROX QUANTITY	UNIT AND DESCRIPTION AND UNIT PRICE WRITTEN IN WORDS	TOTAL AMOUNT
10	164	92,134.00	SY DRILL SEEDING (TEMP) (COOL) _____ DOLLARS and _____ CENTS per Unit	\$ _____
11	168	499.20	MG VEGETATIVE WATERING _____ DOLLARS and _____ CENTS per Unit	\$ _____
12	247	12,315.00	SY FL BS (CMP IN PLC)(TY A GR 1) (6") _____ DOLLARS and _____ CENTS per Unit	\$ _____
13	260	12,810.00	SY LIME TRT (EXST MATL) (6") _____ DOLLARS and _____ CENTS per Unit	\$ _____
14	260	1,839.00	TON LIME (HYDRATED LIME (SLURRY)) _____ DOLLARS and _____ CENTS per Unit	\$ _____
15	260	92,643.00	SY LIME TRT (EXST MATL) (8") _____ DOLLARS and _____ CENTS per Unit	\$ _____
16	310	3,079.00	GAL PRIME COAT (MC-30) _____ DOLLARS and _____ CENTS per Unit	\$ _____
17	315	1,832.70	GAL FOG SEAL (SS-1) _____ DOLLARS and _____ CENTS per Unit	\$ _____
18	340	3,841.00	TON D-GR HMA(METH) TY-B PG64-22 _____ DOLLARS and _____ CENTS per Unit	\$ _____

BID ITEM	TxDOT ITEM	APPROX QUANTITY	UNIT AND DESCRIPTION AND UNIT PRICE WRITTEN IN WORDS	TOTAL AMOUNT
19	340	18,050.00	TON D-GR HMA(METH) TY-B PG70-22 _____ DOLLARS and _____ CENTS per Unit	\$ _____
20	340	1,806.00	TON D-GR HMA(METH) TY-D SAC-B PG70-22 _____ DOLLARS and _____ CENTS per Unit	\$ _____
21	360	82,030.00	SY CONC PVMT (CONT REINF-CRCP)(8") _____ DOLLARS and _____ CENTS per Unit	\$ _____
22	416	28.00	LF DRILL SHAFT (SIGN MTS)(24 IN) _____ DOLLARS and _____ CENTS per Unit	\$ _____
23	432	640.00	CY RIPRAP (CONC)(5 IN) _____ DOLLARS and _____ CENTS per Unit	\$ _____
24	432	196.00	CY RIPRAP (MOW STRIP) (5 IN) _____ DOLLARS and _____ CENTS per Unit	\$ _____
25	496	218.00	LF REMOV STR (PIPE) _____ DOLLARS and _____ CENTS per Unit	\$ _____
26	496	12.00	EA REMOV STR (BUILDING) _____ DOLLARS and _____ CENTS per Unit	\$ _____
27	502	18.00	MO BARRICADES, SIGNS AND TRAFFIC HANDLING _____ DOLLARS and _____ CENTS per Unit	\$ _____

BID ITEM	TXDOT ITEM	APPROX. QUANTITY	UNIT AND DESCRIPTION AND UNIT PRICE WRITTEN IN WORDS	TOTAL AMOUNT
28	506	980.00	LF ROCK FILTER DAMS (INSTALL) (TY 2) _____ DOLLARS and _____ CENTS per Unit	\$ _____
29	506	140.00	LF ROCK FILTER DAMS (INSTALL) (TY 3) _____ DOLLARS and _____ CENTS per Unit	\$ _____
30	506	1,120.00	LF ROCK FILTER DAMS (REMOVE) _____ DOLLARS and _____ CENTS per Unit	\$ _____
31	506	7,700.00	SY CONSTRUCTION EXITS (INSTALL) (TY 1) _____ DOLLARS and _____ CENTS per Unit	\$ _____
32	506	7,700.00	SY CONSTRUCTION EXITS (REMOVE) _____ DOLLARS and _____ CENTS per Unit	\$ _____
33	506	20,170.00	LF TEMPORARY SEDIMENT CONTROL FENCE _____ DOLLARS and _____ CENTS per Unit	\$ _____
34	506	1,800.00	LF TEMP SDMT CONT FENCE (INLET PROTECT) _____ DOLLARS and _____ CENTS per Unit	\$ _____
35	508	643.00	SY CONSTRUCTING DETOURS _____ DOLLARS and _____ CENTS per Unit	\$ _____
36	512	4,170.00	LF PORT CTB (FUR & INST) (SAFETY SH) (TY 1) _____ DOLLARS and _____ CENTS per Unit	\$ _____

BID ITEM	TxDOT ITEM	APPROX QUANTITY	UNIT AND DESCRIPTION AND UNIT PRICE WRITTEN IN WORDS	TOTAL AMOUNT
37	512	3,210.00	LF PORT CTB (MOVE) (SAFETY SH) (TY 1) _____ DOLLARS and _____ CENTS per Unit	\$ _____
38	512	4,170.00	LF PORT CTB (REMOVE) (SAFETY SH) (TY 1) _____ DOLLARS and _____ CENTS per Unit	\$ _____
39	529	795.00	LF CONC CURB & GUTTER (TY II) _____ DOLLARS and _____ CENTS per Unit	\$ _____
40	529	47,784.00	LF CONC CURB (MONO) (TY II) _____ DOLLARS and _____ CENTS per Unit	\$ _____
41	530	1,361.00	SY DRIVEWAYS (ACP) _____ DOLLARS and _____ CENTS per Unit	\$ _____
42	540	2,100.00	LF MTL W-BEAM GD FEN (STEEL POST) _____ DOLLARS and _____ CENTS per Unit	\$ _____
43	540	4.00	EA MTL BEAM GD FENCE TRANS (THRIE) STL POST _____ DOLLARS and _____ CENTS per Unit	\$ _____
44	544	22.00	EA GDRAIL END TRT (INSTALL) (HBA POST) _____ DOLLARS and _____ CENTS per Unit	\$ _____
45	545	6.00	EA CRASH CUSH ATTEN (INSTL) _____ DOLLARS and _____ CENTS per Unit	\$ _____

BID ITEM	TxDOT ITEM	APPROX QUANTITY	UNIT AND DESCRIPTION AND UNIT PRICE WRITTEN IN WORDS	TOTAL AMOUNT
46	545	4.00	EA CRASH CUSH ATTEN (MOVE & RESET) _____ DOLLARS and _____ CENTS per Unit	\$ _____
47	545	6.00	EA CRASH CUSH ATTEN (REMOVE) _____ DOLLARS and _____ CENTS per Unit	\$ _____
48	552	39,286.00	LF WIRE FENCE (TY C) _____ DOLLARS and _____ CENTS per Unit	\$ _____
49	552	7,386.00	LF WIRE FENCE (TY D) _____ DOLLARS and _____ CENTS per Unit	\$ _____
50	552	5.00	EA GATE (TY 1) _____ DOLLARS and _____ CENTS per Unit	\$ _____
51	552	2.00	EA GATE (SPECIAL) _____ DOLLARS and _____ CENTS per Unit	\$ _____
52	636	218.00	SF ALUMINUM SIGNS (TY G) _____ DOLLARS and _____ CENTS per Unit	\$ _____
53	644	21.00	EA INS SM RD SN SUP&AM TY 10BWG(1) SA(T) _____ DOLLARS and _____ CENTS per Unit	\$ _____
54	644	4.00	EA INS SM RD SN SUP&AM TY 10BWG(1) SA(U) _____ DOLLARS and _____ CENTS per Unit	\$ _____

BID ITEM	TXDOT ITEM	APPROX. QUANTITY	UNIT AND DESCRIPTION AND UNIT PRICE WRITTEN IN WORDS	TOTAL AMOUNT
55	644	3.00	EA INS SM RD SN SUP&AM TY S80(1) SA(T) _____ DOLLARS and _____ CENTS per Unit	\$ _____
56	644	3.00	EA INS SM RD SN SUP&AM TY S80(2)SA(P-EXAL _____ DOLLARS and _____ CENTS per Unit	\$ _____
57	644	30.00	EA INS SM RD SN SUP&AM TY TWT(1) UA(P) _____ DOLLARS and _____ CENTS per Unit	\$ _____
58	644	2.00	EA REMOVE SM RD SN SUP & AM _____ DOLLARS and _____ CENTS per Unit	\$ _____
59	647	1,073.20	LB INSTALL LRSS (STRUCT STEEL) _____ DOLLARS and _____ CENTS per Unit	\$ _____
60	658	37.00	EA INSTL DEL ASSM (D-DY) SZ 1 (RCR) GF2 _____ DOLLARS and _____ CENTS per Unit	\$ _____
61	658	50.00	EA INSTL OM ASSM (OM - 2Y) (WC) GND (BI) _____ DOLLARS and _____ CENTS per Unit	\$ _____
62	662	19,734.00	LF WK ZN PAV MRK REMOV (W) 4" (SLD) _____ DOLLARS and _____ CENTS per Unit	\$ _____
63	662	101.00	LF WK ZN PAV MRK REMOV (W) 24" (SLD) _____ DOLLARS and _____ CENTS per Unit	\$ _____

BID ITEM	TXDOT ITEM	APPROX QUANTITY	UNIT AND DESCRIPTION AND UNIT PRICE WRITTEN IN WORDS	TOTAL AMOUNT
64	662	19,566.00	LF WK ZN PAV MRK REMOV (Y) 4" (SLD) _____ DOLLARS and _____ CENTS per Unit	\$ _____
65	666	3.00	EA REFL PAV MRK TY I(W)(RR XING) (090MIL) _____ DOLLARS and _____ CENTS per Unit	\$ _____
66	668	23.00	EA PREFAB PAV MRK TY C (W) (ARROW) _____ DOLLARS and _____ CENTS per Unit	\$ _____
67	668	23.00	EA PREFAB PAV MRK TY C (W) (WORD) _____ DOLLARS and _____ CENTS per Unit	\$ _____
68	672	348.00	EA REFL PAV MRKR TY I-C _____ DOLLARS and _____ CENTS per Unit	\$ _____
69	672	838.00	EA REFL PAV MRKR TY II-A-A _____ DOLLARS and _____ CENTS per Unit	\$ _____
70	672	96.00	EA TRAFFIC BUTTON TY Y _____ DOLLARS and _____ CENTS per Unit	\$ _____
71	677	15,279.00	LF ELIM EXT PAV MRK & MRKS (4") _____ DOLLARS and _____ CENTS per Unit	\$ _____
72	677	128.00	LF ELIM EXT PAV MRK & MRKS (24") _____ DOLLARS and _____ CENTS per Unit	\$ _____

Signed _____

BID ITEM	TxDOT ITEM	APPROX QUANTITY	UNIT AND DESCRIPTION AND UNIT PRICE WRITTEN IN WORDS	TOTAL AMOUNT
73	677	6.00	EA ELIM EXT PAV MRK & MRKS (36") (YLD TRI) _____ DOLLARS and _____ CENTS per Unit	\$ _____
74	678	111,991.00	LF PAV SURF PREP FOR MRK (4") _____ DOLLARS and _____ CENTS per Unit	\$ _____
75	678	3,092.00	LF PAV SURF PREP FOR MRK (8") _____ DOLLARS and _____ CENTS per Unit	\$ _____
76	678	736.00	LF PAV SURF PREP FOR MRK (24") _____ DOLLARS and _____ CENTS per Unit	\$ _____
77	678	23.00	LF PAV SURF PREP FOR MRK (ARROW) _____ DOLLARS and _____ CENTS per Unit	\$ _____
78	678	3.00	EA PAV SURF PREP FOR MRK (RR XING) _____ DOLLARS and _____ CENTS per Unit	\$ _____
79	678	23.00	EA PAV SURF PREP FOR MRK (WORD) _____ DOLLARS and _____ CENTS per Unit	\$ _____
80	6110	55,548.00	LF REF PAV MRK TY I (W)(4") (SLD)(90 MIL) _____ DOLLARS and _____ CENTS per Unit	\$ _____
81	6110	3,436.00	LF REF PAV MRK TY I (W)(8") (SLD)(90 MIL) _____ DOLLARS and _____ CENTS per Unit	\$ _____

BID ITEM	TxDOT ITEM	APPROX. QUANTITY	UNIT AND DESCRIPTION AND UNIT PRICE WRITTEN IN WORDS	TOTAL AMOUNT
82	6110	56,443.00	LF REF PAV MRK TY I (Y)(4") (SLD)(90 MIL) _____ DOLLARS and _____ CENTS per Unit	\$ _____
83	6110	445.00	LF REF PAV MRK TY I (W)(24") (SLD)(90 MIL) _____ DOLLARS and _____ CENTS per Unit	\$ _____
84	6110	1,128.00	LF REF PAV MRK TY I (Y)(24") (SLD)(90 MIL) _____ DOLLARS and _____ CENTS per Unit	\$ _____
85	6110	55,548.00	LF REF PAV MRK TY II (W) 4" (SLD) _____ DOLLARS and _____ CENTS per Unit	\$ _____
86	6110	3,092.00	LF REF PAV MRK TY II (W) 8" (SLD) _____ DOLLARS and _____ CENTS per Unit	\$ _____
87	6110	445.00	LF REF PAV MRK TY II (W) 24" (SLD) _____ DOLLARS and _____ CENTS per Unit	\$ _____
88	6110	56,443.00	LF REF PAV MRK TY II (Y) 4" (SLD) _____ DOLLARS and _____ CENTS per Unit	\$ _____
89	6110	1,128.00	LF REF PAV MRK TY II (Y) 24" (SLD) _____ DOLLARS and _____ CENTS per Unit	\$ _____
90	110	23,444.00	CY EXCAVATION (CHANNEL) _____ DOLLARS and _____ CENTS per Unit	\$ _____

BID ITEM	TXDOT ITEM	APPROX. QUANTITY	UNIT AND DESCRIPTION AND UNIT PRICE WRITTEN IN WORDS	TOTAL AMOUNT
91	400	185.00	CY CEM STABIL BKFL _____ DOLLARS and _____ CENTS per Unit	\$ _____
92	402	516.00	LF TRENCH EXCAVATION PROTECTION _____ DOLLARS and _____ CENTS per Unit	\$ _____
93	432	530.00	CY RIPRAP(STONE TY R) (DRY) (12 IN) _____ DOLLARS and _____ CENTS per Unit	\$ _____
94	432	3,381.00	CY RIPRAP(STONE TY R) (DRY) (24 IN) _____ DOLLARS and _____ CENTS per Unit	\$ _____
95	462	156.00	LF CONC BOX CULV (4 FT X 2 FT) _____ DOLLARS and _____ CENTS per Unit	\$ _____
96	462	79.00	LF CONC BOX CULV (4 FT X 3 FT) _____ DOLLARS and _____ CENTS per Unit	\$ _____
97	462	529.00	LF CONC BOX CULV (5 FT X 2 FT) _____ DOLLARS and _____ CENTS per Unit	\$ _____
98	462	226.00	LF CONC BOX CULV (5 FT X 3 FT) _____ DOLLARS and _____ CENTS per Unit	\$ _____
99	462	162.00	LF CONC BOX CULV (5 FT X 4 FT) _____ DOLLARS and _____ CENTS per Unit	\$ _____

BID ITEM	TxDOT ITEM	APPROX QUANTITY	UNIT AND DESCRIPTION AND UNIT PRICE WRITTEN IN WORDS	TOTAL AMOUNT
100	462	75.00	LF CONC BOX CULV (6 FT X 4 FT) _____ DOLLARS and _____ CENTS per Unit	\$ _____
101	462	286.00	LF CONC BOX CULV (7 FT X 3 FT) _____ DOLLARS and _____ CENTS per Unit	\$ _____
102	462	67.00	LF CONC BOX CULV (7 FT X 4 FT) _____ DOLLARS and _____ CENTS per Unit	\$ _____
103	462	84.00	LF CONC BOX CULV (9 FT X 5 FT) _____ DOLLARS and _____ CENTS per Unit	\$ _____
104	462	486.00	LF CONC BOX CULV (10 FT X 6 FT) _____ DOLLARS and _____ CENTS per Unit	\$ _____
105	462	160.00	LF CONC BOX CULV (10 FT X 8 FT) _____ DOLLARS and _____ CENTS per Unit	\$ _____
106	462	238.00	LF CONC BOX CULV (11 FT X 10 FT) _____ DOLLARS and _____ CENTS per Unit	\$ _____
107	464	3,452.00	LF RC PIPE (CL III) (18 IN) _____ DOLLARS and _____ CENTS per Unit	\$ _____
108	464	474.00	LF RC PIPE (CL III) (24 IN) _____ DOLLARS and _____ CENTS per Unit	\$ _____

BID ITEM	TYDOT ITEM	APPROX QUANTITY	UNIT AND DESCRIPTION AND UNIT PRICE WRITTEN IN WORDS	TOTAL AMOUNT
109	464	335.00	LF RC PIPE (CL III) (30 IN) _____ DOLLARS and _____ CENTS per Unit	\$ _____
110	465	47.00	EA INLET (COMPL) (TY C) _____ DOLLARS and _____ CENTS per Unit	\$ _____
111	465	7.00	EA INLET (COMPL) (TY H) _____ DOLLARS and _____ CENTS per Unit	\$ _____
112	465	62.00	EA INLET EXT (TY C) _____ DOLLARS and _____ CENTS per Unit	\$ _____
113	466	1.00	EA WINGWALL (SW - 0) (HW=3 FT) _____ DOLLARS and _____ CENTS per Unit	\$ _____
114	466	1.00	EA WINGWALL (SW - 0) (HW=4 FT) _____ DOLLARS and _____ CENTS per Unit	\$ _____
115	466	2.00	EA WINGWALL (FW - 0) (HW=4 FT) _____ DOLLARS and _____ CENTS per Unit	\$ _____
116	466	3.00	EA WINGWALL (FW - S) (HW=5 FT) _____ DOLLARS and _____ CENTS per Unit	\$ _____
117	466	1.00	EA WINGWALL (FW - S) (HW=6 FT) _____ DOLLARS and _____ CENTS per Unit	\$ _____

BID ITEM	TxDOT ITEM	APPROX QUANTITY	UNIT AND DESCRIPTION AND UNIT PRICE WRITTEN IN WORDS	TOTAL AMOUNT
118	466	1.00	EA WINGWALL (FW - S) (HW=7 FT) _____ DOLLARS and _____ CENTS per Unit	\$ _____
119	466	2.00	EA WINGWALL (FW - S) (HW=8 FT) _____ DOLLARS and _____ CENTS per Unit	\$ _____
120	466	2.00	EA WINGWALL (PW) (HW=4 FT) _____ DOLLARS and _____ CENTS per Unit	\$ _____
121	466	3.00	EA WINGWALL (PW) (HW=5 FT) _____ DOLLARS and _____ CENTS per Unit	\$ _____
122	466	2.00	EA WINGWALL (PW) (HW=6 FT) _____ DOLLARS and _____ CENTS per Unit	\$ _____
123	466	1.00	EA WINGWALL (PW) (HW=7 FT) _____ DOLLARS and _____ CENTS per Unit	\$ _____
124	466	1.00	EA WINGWALL (PW) (HW=8 FT) _____ DOLLARS and _____ CENTS per Unit	\$ _____
125	466	3.00	EA WINGWALL (PW) (HW=10 FT) _____ DOLLARS and _____ CENTS per Unit	\$ _____
126	466	1.00	EA WINGWALL (PW) (HW=11 FT) _____ DOLLARS and _____ CENTS per Unit	\$ _____

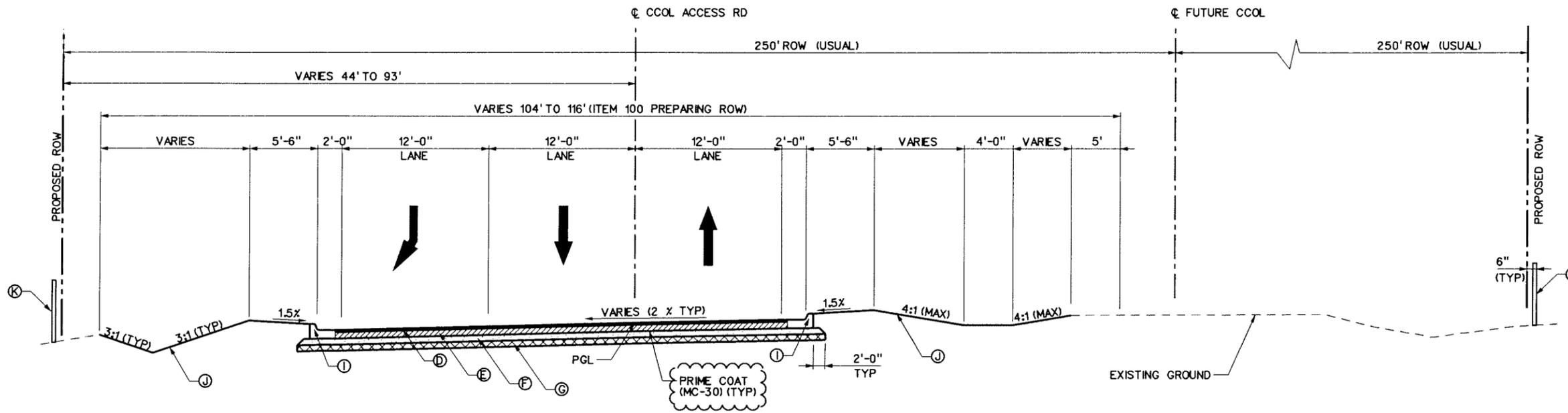
BID ITEM	TxDOT ITEM	APPROX QUANTITY	UNIT AND DESCRIPTION AND UNIT PRICE WRITTEN IN WORDS	TOTAL AMOUNT
127	466	2.00	EA WINGWALL (PW) (HW=14 FT) _____ DOLLARS and _____ CENTS per Unit	\$ _____
128	467	4.00	EA SET (TY I) (S= 4 FT) (HW= 3 FT) (6:1) (P) _____ DOLLARS and _____ CENTS per Unit	\$ _____
129	467	10.00	EA SET (TY I) (S= 5 FT) (HW= 3 FT) (6:1) (P) _____ DOLLARS and _____ CENTS per Unit	\$ _____
130	467	2.00	EA SET (TY II) (24 IN) (RCP) (3:1) (C) _____ DOLLARS and _____ CENTS per Unit	\$ _____
131	467	1.00	EA SET (TY II) (30 IN) (RCP) (3:1) (C) _____ DOLLARS and _____ CENTS per Unit	\$ _____
132	467	47.00	EA SET (TY II) (18 IN) (RCP) (4:1) (C) _____ DOLLARS and _____ CENTS per Unit	\$ _____
133	467	3.00	EA SET (TY II) (24 IN) (RCP) (4:1) (C) _____ DOLLARS and _____ CENTS per Unit	\$ _____
134	467	4.00	EA SET (TY II) (30 IN) (RCP) (4:1) (C) _____ DOLLARS and _____ CENTS per Unit	\$ _____
135	467	4.00	EA SET (TY II) (18 IN) (RCP) (6:1) (P) _____ DOLLARS and _____ CENTS per Unit	\$ _____

BID ITEM	TXDOT ITEM	APPROX QUANTITY	UNIT AND DESCRIPTION AND UNIT PRICE WRITTEN IN WORDS	TOTAL AMOUNT
136	467	2.00	EA SET (TY II) (24 IN) (RCP) (6:1) (P) _____ DOLLARS and _____ CENTS per Unit	\$ _____
137	416	112.00	LF DRILL SHAFT (18 IN) _____ DOLLARS and _____ CENTS per Unit	\$ _____
138	416	294.00	LF DRILL SHAFT (36 IN) _____ DOLLARS and _____ CENTS per Unit	\$ _____
139	420	47.00	CY CL C CONC (ABUT) _____ DOLLARS and _____ CENTS per Unit	\$ _____
140	420	38.00	CY CL C CONC (BENT) _____ DOLLARS and _____ CENTS per Unit	\$ _____
141	420	54.00	CY CL S CONC (APPR SLAB) _____ DOLLARS and _____ CENTS per Unit	\$ _____
142	422	5,250.00	SF REINF CONC SLAB _____ DOLLARS and _____ CENTS per Unit	\$ _____
143	425	694.00	LF PRESTR CONC GIRDER (TX40) _____ DOLLARS and _____ CENTS per Unit	\$ _____
144	428	544.00	SY CONC SURF TREAT (CLASS I) _____ DOLLARS and _____ CENTS per Unit	\$ _____

BID ITEM	TXDOT ITEM	APPROX QUANTITY	UNIT AND DESCRIPTION AND UNIT PRICE WRITTEN IN WORDS	TOTAL AMOUNT
145	432	92.00	CY RIPRAP (CONC)(5 IN) _____ DOLLARS and _____ CENTS per Unit	\$ _____
146	432	541.00	CY RIPRAP (STONE PROTECTION) (18IN) _____ DOLLARS and _____ CENTS per Unit	\$ _____
147	450	410.00	LF RAIL (TY T221) _____ DOLLARS and _____ CENTS per Unit	\$ _____
148	454	52.00	LF ARMOR JOINT (WITH SEAL) _____ DOLLARS and _____ CENTS per Unit	\$ _____
149	500	1.00	LS MOBILIZATION (10%) _____ DOLLARS and _____ CENTS per Unit	\$ _____

TOTAL BID: \$ _____

Signed _____

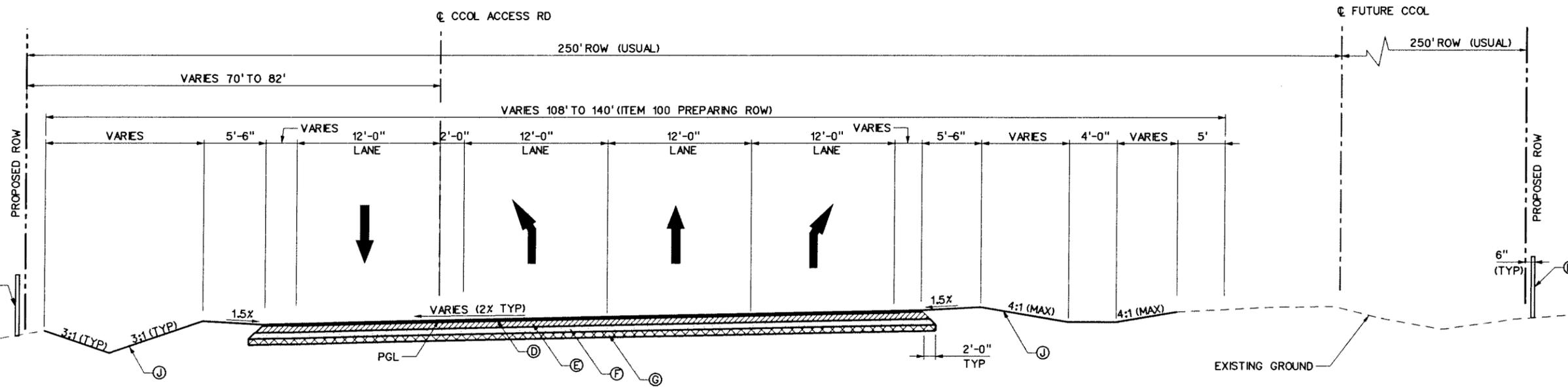


PROPOSED COLLIN COUNTY OUTER LOOP ACCESS ROAD AT US 75

STA 14+63.00 TO STA 15+15.00

- LEGEND**
- (A) 8" REINFORCED CONCRETE
 - (B) 4" D-GR HMA (TY B)
 - (C) 8" LIME TREATED SUBGRADE
 - (D) 2" D-GR HMA (TY D) WITH FOG SEAL (SS-1)
 - (E) 6.5" D-GR HMA (TY B)
 - (F) 6" FL BS (TY A)
 - (G) 6" LIME TREATED SUBGRADE
 - (H) 6" TYPE II CURB
 - (I) 6" TYPE II CURB & GUTTER
 - (J) 4" TOPSOIL AND SEEDING
 - (K) WIRE FENCE (TY D)

NOTE:
1. FOR TYPICAL SECTION GENERAL NOTES AND PAVEMENT SECTION EDGE DETAILS, SEE SHEET 1 OF 7.



PROPOSED COLLIN COUNTY OUTER LOOP ACCESS ROAD AT SH 5

STA 105+45.67 TO STA 106+41.98



NO.	DATE	REVISION	APPROV.
COLLIN COUNTY OUTER LOOP			
			
PROPOSED TYPICAL SECTIONS			
SHEET 4 OF 7			
HNTB			
<small>HNTB Corporation The HNTB Companies Engineers Architects Planners Fire Registration Number 420</small>			
BOND PROJECT NO.		SHEET 4	

ROADWAY SUMMARY																	
TXDOT ITEM NO.	100 2002	247 2061	260 2006	260 2016	260 2027	310 2001	315 2001	340 2011	340 2014	340 2120	360 2001	432 2040	529 2004	529 2006	540 2002	540 2019	544 2013
SHEET	PREPARING ROW	FL BS (CMP IN PLC)(TY A GR 1) (6")	LIME TRT (EXST MATL) (6")	LIME (HYD. COM, OR QK(SLURRY))	LIME TRT (EXST MATL) (8")	PRIME COAT (MC-30)	FOG SEAL (SS-1)	D-GR HMA(METH) TY-B PG64-22	D-GR HMA(METH) TY-B PG70-22	D-GR HMA(METH) TY-D SAC-B PG70-22	CONC PVMT (CONT REINF- CRCP)(8")	RIPRAP (MOW STRIP) (5 IN)	CONC CURB & GUTTER (TY II)	CONC CURB (MONO) (TY II)	MTL W- BEAM GD FEN (STEEL POST)	MTL BEAM GD FENCE TRANS (THRIE) STL POST	GDRAIL END TRT (INSTALL) (HBA POST)
	STA	SY	SY	TON	SY	GAL	GAL	TON	TON	TON	SY	CY	LF	LF	LF	EA	EA
Collin County Outer Loop Plan & Profile																	
SHEET 1 OF 21	8.50	621	640	62	2976	155	172	193	588	58	2671	21	143	1372	250		2
SHEET 2 OF 21	12.00			84	4682				911		4143			2429			
SHEET 3 OF 21	12.00			65	3612				693		3149	35		2050	175	4	6
SHEET 4 OF 21	12.00			79	4400				851		3867			2400			
SHEET 5 OF 21	12.00			79	4400				851		3867			2400			
SHEET 6 OF 21	12.00			79	4400				851		3867	36		2400	400		4
SHEET 7 OF 21	10.00			66	3667				709		3222			2000			
SHEET 8 OF 21	12.00			105	5849				1164		5291			2451			
SHEET 9 OF 21	12.00			84	4648				927		4213		435	1998			
SHEET 10 OF 21	12.00			79	4400				851		3867			2400			
SHEET 11 OF 21	12.00			79	4400				851		3867	19		2400	225		2
SHEET 12 OF 21	12.00			79	4400				851		3867			2400			
SHEET 13 OF 21	12.00			79	4400				851		3867			2400			
SHEET 14 OF 21	12.00			89	4968				973		4423			2459			
SHEET 15 OF 21	12.00			91	5078				1000		4544			2421			
SHEET 16 OF 21	12.00	242	249	86	4575	60	22	82	888	24	4037			2423			
SHEET 17 OF 21	12.00			92	5109				1003		4559	15		2487	150		2
SHEET 18 OF 21	12.00			79	4400				851		3867	38		2400	575		2
SHEET 19 OF 21	12.00			80	4421				855		3885			2434			
SHEET 20 OF 21	12.00			80	4442				859		3904	32		2423	325		4
SHEET 21 OF 21	9.32	754	766	72	3416	189	138	240	672	74	3053		217	1637			
CR 366																	
SHEET 1 OF 1		778	921	12		195	70	262		77							
CR 365																	
SHEET 1 OF 1		617	637	9		154	54	205		60							
SH 5																	
SHEET 1 OF 2		5169	5309	72		1292	811	1744		892							
SHEET 2 OF 2		2893	3002	41		723	522	952		574							
CR 418																	
SHEET 1 OF 1		749	776	10		187											
CR 419																	
SHEET 1 OF 1		492	510	7		123	43	163		47							
TOTAL	244	12315	12810	1839	92643	3079	1833	3841	18050	1806	82030	196	795	47784	2100	4	22

NO.	DATE	REVISION	APPROV.
COLLIN COUNTY OUTER LOOP			
			
ROADWAY SUMMARY			
SHEET 1 OF 1			
			
<small>HNTB Corporation The HNTB Companies Engineers Architects Planners Firm Registration Number 420</small>			
BOND PROJECT NO. 07-094		SHEET 14	

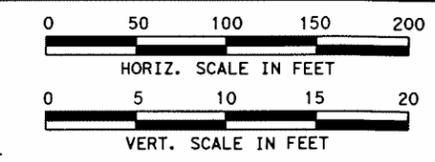
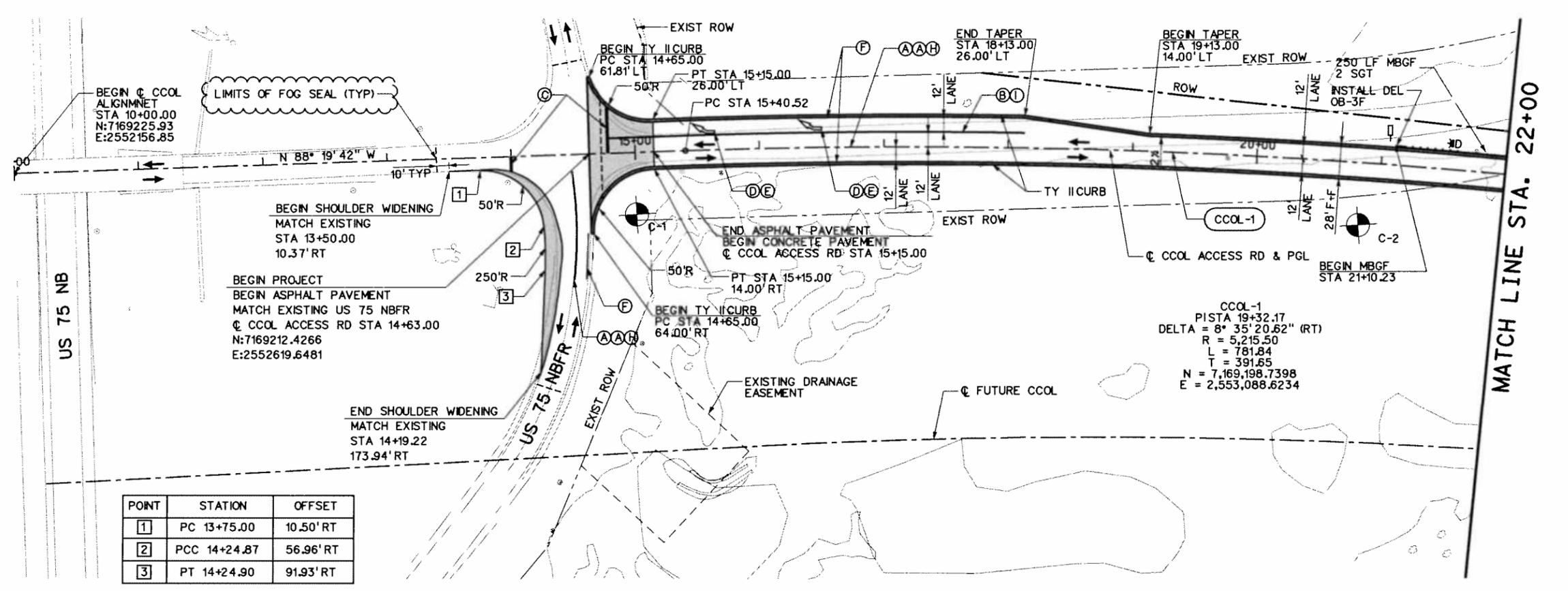
CULVERT SUMMARY

CULVERT	CCOL ACCESS ROAD STATION	110	*400	400	402	432	432	462	462	462	462	462	462	462	462	462	462	462	464	464	464	
		2002		2005	2001	2002	2057	2003	2004	2006	2007	2008	2011	2014	2015	2024	2030	2032	2099	2003	2005	2007
		EXCAVATION (CHANNEL)	STRUCT EXCAV	CEM STABIL BKFL	TRENCH EXCAVATION PROTECTION	RIPRAP (CONC) (5 IN)	RIPRAP (STONE TYR) (DRY) (24 IN)	CONC BOX CULV (4 FT X 2 FT)	CONC BOX CULV (4 FT X 3 FT)	CONC BOX CULV (5 FT X 2 FT)	CONC BOX CULV (5 FT X 3 FT)	CONC BOX CULV (5 FT X 4 FT)	CONC BOX CULV (6 FT X 4 FT)	CONC BOX CULV (7 FT X 3 FT)	CONC BOX CULV (7 FT X 4 FT)	CONC BOX CULV (9 FT X 5 FT)	CONC BOX CULV (10 FT X 6 FT)	CONC BOX CULV (10 FT X 8 FT)	CONC BOX CULV (11 FT X 10 FT)	RC PIPE (CL III) (18 IN)	RC PIPE (CL III) (24 IN)	RC PIPE (CL III) (30 IN)
		CY	CY	CY	LF	CY	CY	LF	LF	LF	LF	LF	LF									
Collin County Outer Loop Culvert Layout Sheets																						
THROCKMORTON	23+10.00	10230	496		36																238	
A	41+80.00	560	306	65	84						226											
B	72+05.00	125	74	27		2			79													
C	80+77.00	446	205			7										84						
D	90+40.00	734	195			5								148								
E	106+18.00	324	260							214												
F	106+95.00	84	34																	340		
G-1	108+05.00	76	37			2				75												
G-2	109+40.00	19	44																		210	
H	136+20.00	1602	1067		85	25										396						
I	171+51.00	31	340							240												
J	172+21.00	47	62					156														
K	203+10.00	532	197	44		5								138								
L	216+20.00	5477	330		32																160	
M	220+05.00	810	69	28									75									
N	237+20.00	1810	302		52	12											90					
O	246+26.00	230	57			4								67								
P	251+38.00	276	170			11							162									
Q	254+40.00	26	26																			105
R	256+90.00	5	11																		148	
TOTAL		23,444	4,282	164	289	73	3,381	156	79	529	226	162	75	286	67	84	486	160	238	340	358	105

* FOR CONTRACTOR'S INFORMATION ONLY, STRUCTURAL EXCAVATION IS SUBSIDIARY TO CULVERT BID ITEM

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NO.	DATE	REVISION	APPROV.	
COLLIN COUNTY OUTER LOOP				
				
SUMMARY OF CULVERT QUANTITIES				
SHEET 1 OF 2				
				
<small>HNTB Corporation The HNTB Companies Engineers, Architects, Planners Firm Registration Number 420</small>				
BOND PROJECT NO. 07-094		SHEET 18		

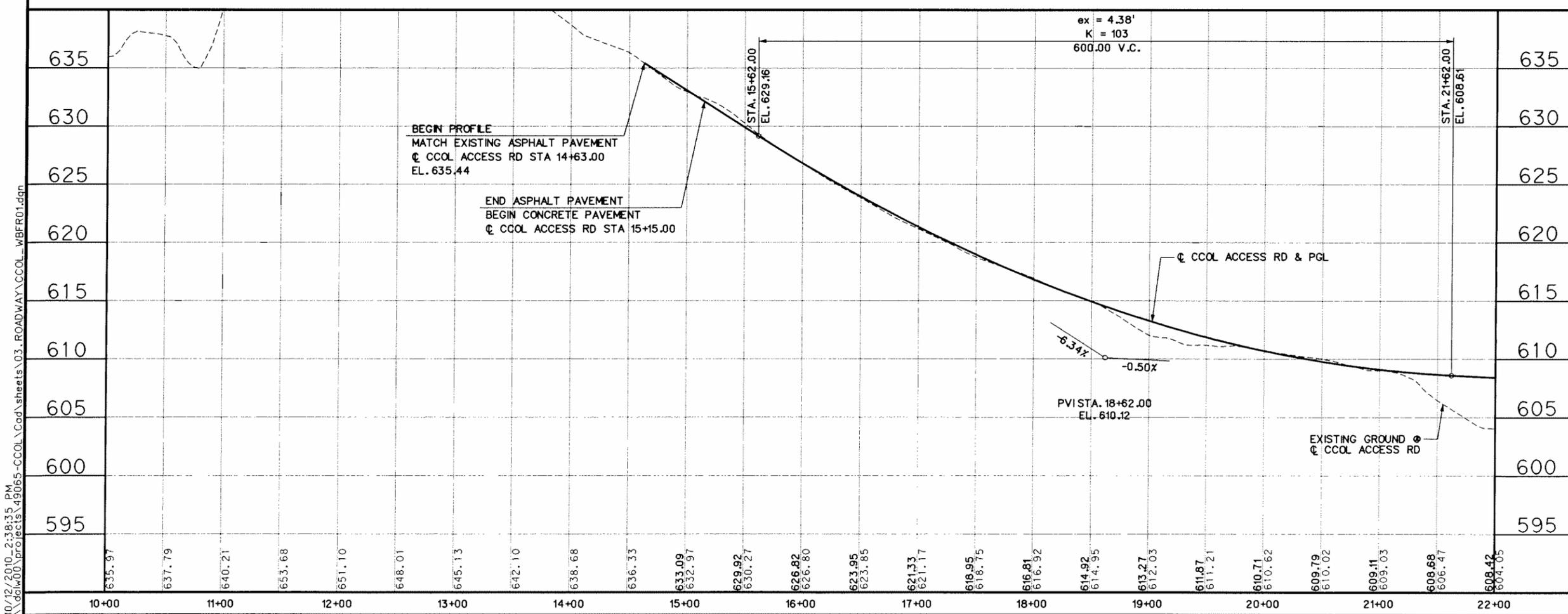


LEGEND

- ROW
- TRAFFIC LANE
- SOL BORING
- △ CONTROL POINT/BENCHMARK
- ⊙ PAV MRK (Y) 4" (SLD)
- ⊙ PAV MRK (W) 8" (SLD)
- ⊙ PAV MRK (W) 24" (SLD)
- ⊙ PAV MRK (W) (ARROW)
- ⊙ PAV MRK (W) (WORD) (ONLY)
- ⊙ PAV MRK (W) 4" (SLD)
- ⊙ PAV MRK (Y) 24" (SLD)
- ⊙ RAISED PAV MRK TYP II-A-A
- ⊙ RAISED PAV MRK TYP I-C
- ⊙ PAV MRK (W) (RR XING)
- *S INSTL DEL ASSM (SINGLE Y) GND
- *D INSTL DEL ASSM (DOUBLE Y) GF2
- ⊙ INSTL OM ASSM (DOUBLE Y) GND
- ASPHALT PAVEMENT

POINT	STATION	OFFSET
1	PC 13+75.00	10.50' RT
2	PCC 14+24.87	56.96' RT
3	PT 14+24.90	91.93' RT

CCOL-1
PISTA 19+32.17
DELTA = 8° 35' 20.62" (RT)
R = 5,215.50
L = 781.84
T = 391.65
N = 7,169,198.7398
E = 2,553,088.6234



NO.	DATE	REVISION	APPROV.

COLLIN COUNTY OUTER LOOP



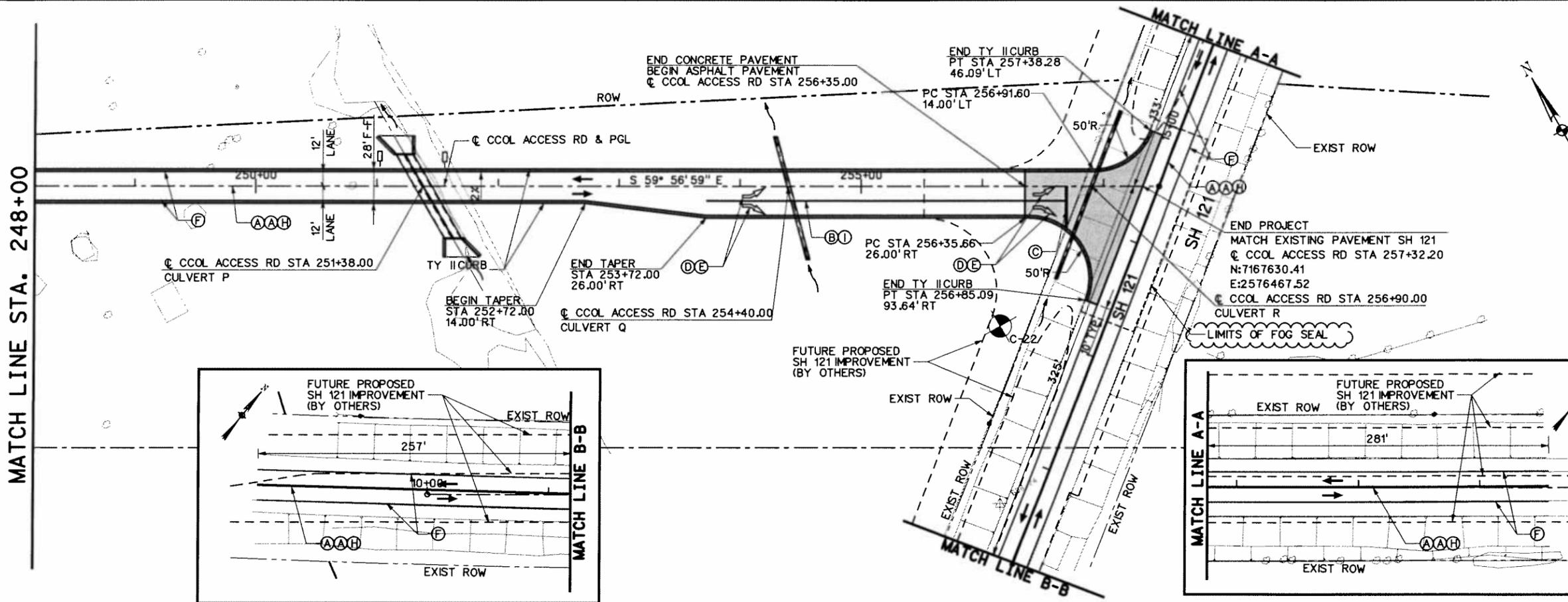
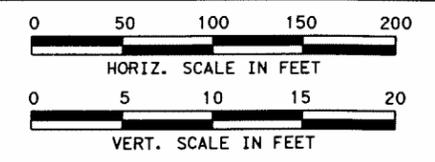
**ACCESS ROAD
PAVING PLAN & PROFILE
BEGIN PROJECT TO STA 22+00**

SHEET 1 OF 21

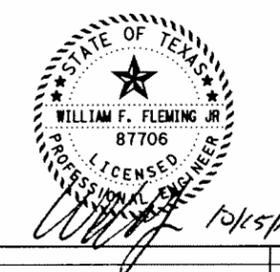
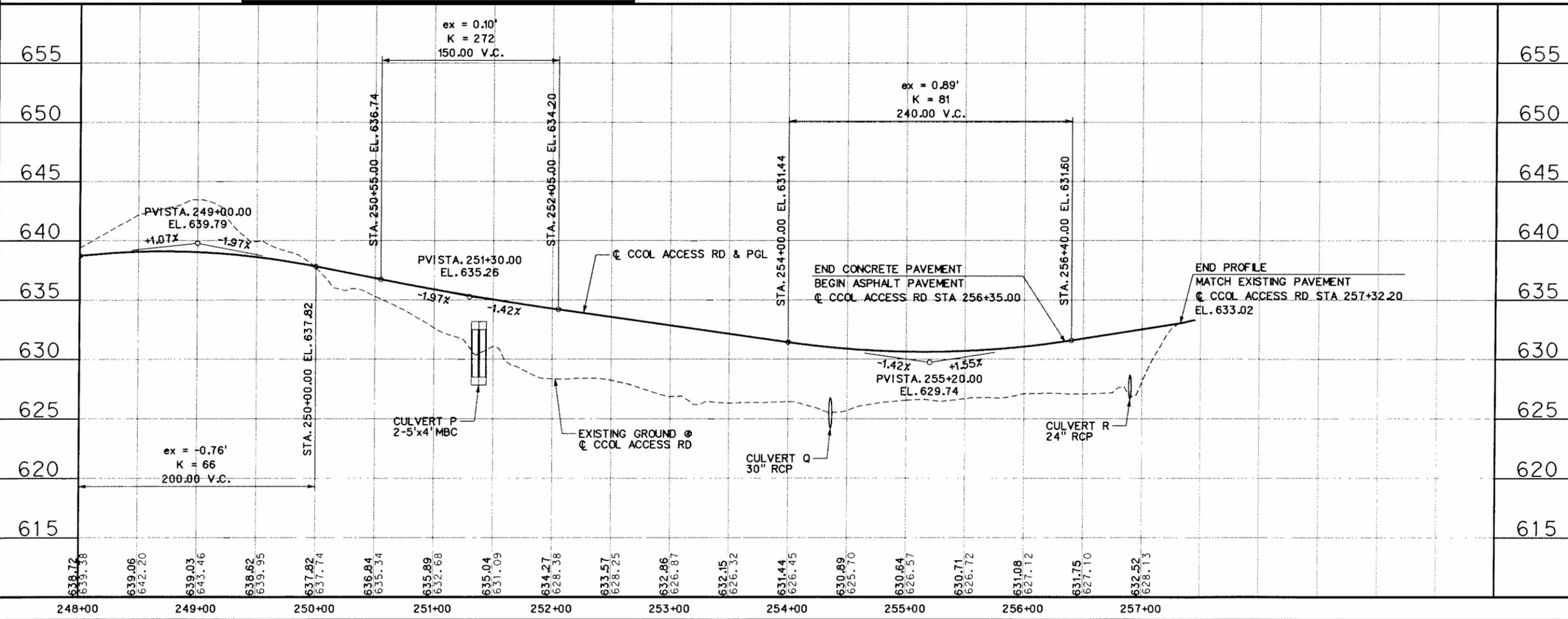
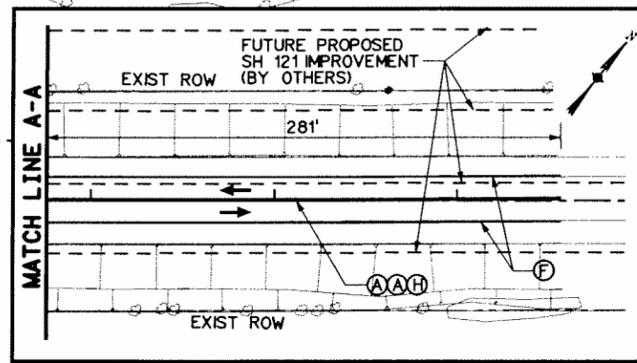
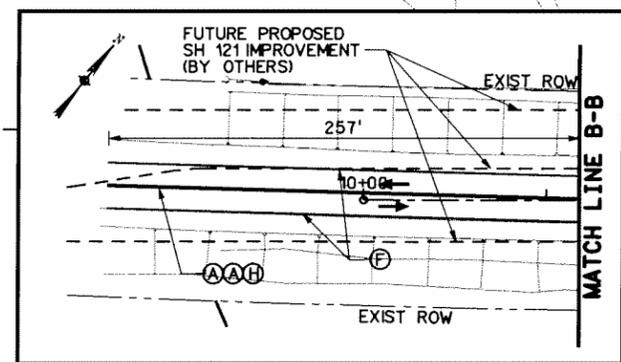
HNTB HNTB Corporation
The HNTB Companies
Engineers, Architects, Planners
Fire Registration Number 420

BOND PROJECT NO. 07-094 SHEET 65

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- LEGEND**
- ROW
 - TRAFFIC LANE
 - SOL BORING
 - △ CONTROL POINT/BENCHMARK
 - ⊙ (A) PAV MRK (Y) 4" (SLD)
 - ⊙ (B) PAV MRK (W) 8" (SLD)
 - ⊙ (C) PAV MRK (W) 24" (SLD)
 - ⊙ (D) PAV MRK (W) (ARROW)
 - ⊙ (E) PAV MRK (W) (WORD) (ONLY)
 - ⊙ (F) PAV MRK (W) 4" (SLD)
 - ⊙ (G) PAV MRK (Y) 24" (SLD)
 - ⊙ (H) RAISED PAV MRK TYP II-A-A
 - ⊙ (I) RAISED PAV MRK TYP I-C
 - ⊙ (J) PAV MRK (W) (RR XING)
 - *S INSTL DEL ASSM (SINGLE Y) GND
 - *D INSTL DEL ASSM (DOUBLE Y) GF2
 - ⊥ INSTL OM ASSM (DOUBLE Y) GND
 - ASPHALT PAVEMENT



NO.	DATE	REVISION	APPROV.

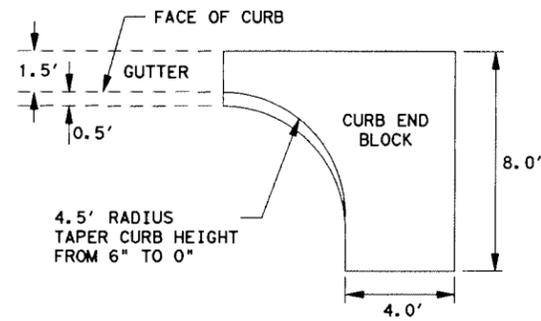
COLLIN COUNTY OUTER LOOP

**ACCESS ROAD
PAVING PLAN & PROFILE
STA 248+00 TO END PROJECT**

SHEET 21 OF 21

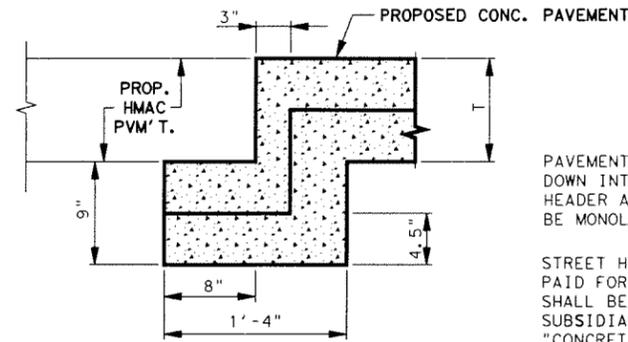
HNTB HNTB Corporation
The HNTB Companies
Engineers, Architects, Planners
Fire Registration Number 420

BOND PROJECT NO. 07-094 SHEET 85



CURB END BLOCK DETAIL

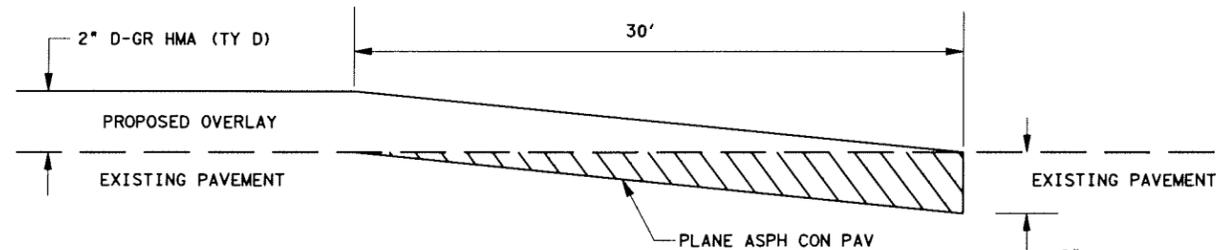
Note: Curb End Block Detail to be applied at every curb terminus. Curb End Block Detail to be subsidiary to the bid item CONC CURB & GUTTER (TY II) (REINF)



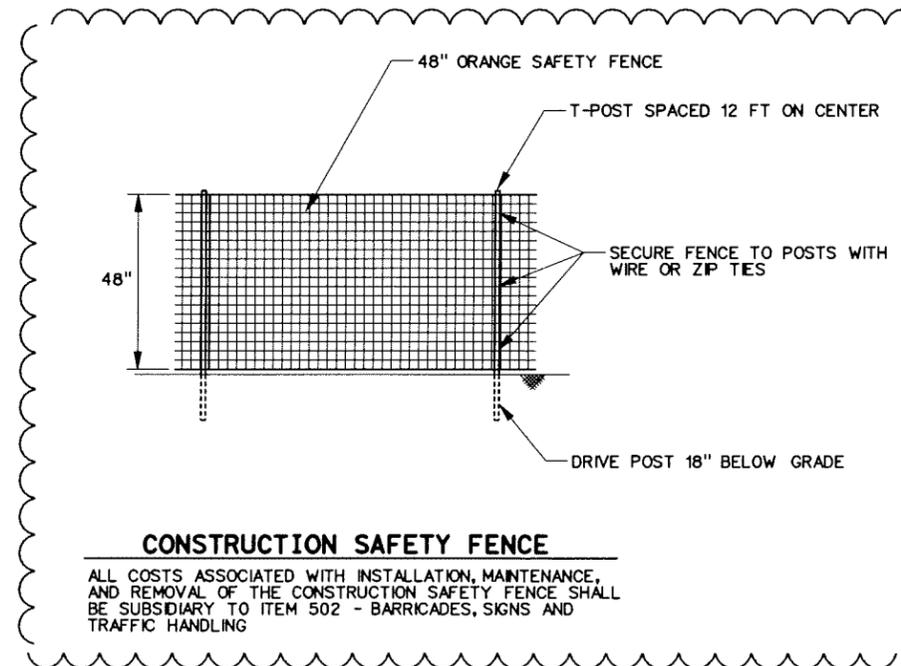
ASPHALT / CONCRETE TRANSITION HEADER

PAVEMENT BARS TO BE BENT DOWN INTO HEADER. HEADER AND PAVEMENT TO BE MONOLITHIC.

STREET HEADERS WILL NOT BE PAID FOR DIRECTLY BUT SHALL BE CONSIDERED SUBSIDIARY WORK TO "CONCRETE PAVEMENT"



PLANE ASPH CONC PAV DETAIL AT PAVEMENT CONFORMS



CONSTRUCTION SAFETY FENCE

ALL COSTS ASSOCIATED WITH INSTALLATION, MAINTENANCE, AND REMOVAL OF THE CONSTRUCTION SAFETY FENCE SHALL BE SUBSIDIARY TO ITEM 502 - BARRICADES, SIGNS AND TRAFFIC HANDLING



NO.	DATE	REVISION	APPROV.
COLLIN COUNTY OUTER LOOP			
 COLLIN COUNTY			
MISCELLANEOUS ROADWAY DETAILS			
SHEET 1 OF 1			
HNTB			
HNTB Corporation The HNTB Companies Engineers Architects Planners Firm Registration Number 420			
BOND PROJECT NO. 07-094		SHEET 101	

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NUMBER OF SPANS	SECTION DIMENSIONS		BILLS OF REINFORCING STEEL (For Box Length = 40 feet)																														QUANTITIES															
			Bars B ^⑤				Bars C & D				Bars E				Bars F ₁ ~#4				Bars F ₂ ~#4 at 1'-6" Max				Bars M~#4 at 1'-6" Max				Bars Y & Z~#4 at 8" Max				Bars H ^④ 4~#4		Bars K		Per foot of Barrel		Curb		Total									
			S	H	T	U	No.	Size	Spa	Length	Wt	No.	Size	Spa	Bar C		Bar D		No.	Size	Spa	Length	Wt	No.	Spa	Length	Wt	No.	Length	Wt	No.	Length	Wt	No.	Length	Wt	No.	Bar Y Length	Bar Y Wt	Bar Z Length	Bar Z Wt	Length	Weight	No.	Weight	Conc (CY)	Reinf (Lb)	Conc (CY)
2	10'-0"	5'-0"	8"	7"	162	#6	6"	21'-6"	5,231	194	#4	5"	13'-4"	1,728	10'-1"	1,307	162	#6	6"	11'-0"	2,677	30	8"	39'-9"	797	72	39'-9"	1,912	56	5'-0"	187	61	4'-8"	190	11'-2"	455	21'-6"	57	46	131	1.398	362.1	1.6	188	57.5	14,672		
3	10'-0"	5'-0"	8"	7"	162	#6	6"	32'-1"	7,807	194	#4	5"	13'-4"	1,728	10'-1"	1,307	162	#6	6"	21'-7"	5,252	45	8"	39'-9"	1,195	103	39'-9"	2,735	56	5'-0"	187	122	4'-8"	380	11'-2"	910	32'-1"	86	66	187	2.029	537.5	2.4	273	83.6	21,774		
4	10'-0"	5'-0"	8"	7"	162	#6	6"	42'-8"	10,382	194	#4	5"	13'-4"	1,728	10'-1"	1,307	162	#6	6"	32'-2"	7,827	60	8"	39'-9"	1,593	134	39'-9"	3,558	56	5'-0"	187	183	4'-8"	570	11'-2"	1,365	42'-8"	114	88	250	2.659	712.9	3.2	364	109.6	28,881		
5	10'-0"	5'-0"	8"	7"	162	#6	6"	53'-3"	12,957	194	#4	5"	13'-4"	1,728	10'-1"	1,307	162	#6	6"	42'-9"	10,402	75	8"	39'-9"	1,991	165	39'-9"	4,381	56	5'-0"	187	244	4'-8"	761	11'-2"	1,820	53'-3"	142	110	312	3.290	888.4	4.0	454	135.6	35,988		
6	10'-0"	5'-0"	8"	7"	162	#6	6"	66'-5"	16,161	194	#4	5"	13'-4"	1,728	10'-1"	1,307	162	#6	6"	53'-4"	12,977	90	8"	39'-9"	2,390	196	39'-9"	5,204	56	5'-0"	187	305	4'-8"	951	11'-2"	2,275	65'-7"	175	130	369	3.921	1,079.5	4.7	544	161.5	43,724		
2	10'-0"	6'-0"	8"	7"	162	#6	6"	21'-6"	5,231	194	#4	5"	14'-4"	1,857	10'-1"	1,307	162	#6	6"	11'-0"	2,677	30	8"	39'-9"	797	78	39'-9"	2,071	56	6'-0"	224	61	4'-8"	190	13'-2"	537	21'-6"	57	46	131	1.463	372.3	1.6	188	60.1	15,079		
3	10'-0"	6'-0"	8"	7"	162	#6	6"	32'-1"	7,807	194	#4	5"	14'-4"	1,857	10'-1"	1,307	162	#6	6"	21'-7"	5,252	45	8"	39'-9"	1,195	111	39'-9"	2,947	56	6'-0"	224	122	4'-8"	380	13'-2"	1,073	32'-1"	86	66	187	2.115	551.1	2.4	273	87.0	22,315		
4	10'-0"	6'-0"	8"	7"	162	#6	6"	42'-8"	10,382	194	#4	5"	14'-4"	1,857	10'-1"	1,307	162	#6	6"	32'-2"	7,827	60	8"	39'-9"	1,593	144	39'-9"	3,824	56	6'-0"	224	183	4'-8"	570	13'-2"	1,610	42'-8"	114	88	250	2.767	729.9	3.2	373	113.9	29,558		
5	10'-0"	6'-0"	8"	7"	162	#6	6"	53'-3"	12,957	194	#4	5"	14'-4"	1,857	10'-1"	1,307	162	#6	6"	42'-9"	10,402	75	8"	39'-9"	1,991	177	39'-9"	4,700	56	6'-0"	224	244	4'-8"	761	13'-2"	2,146	53'-3"	142	110	312	3.420	908.6	4.0	454	140.8	36,799		
6	10'-0"	6'-0"	8"	7"	162	#6	6"	66'-5"	16,161	194	#4	5"	14'-4"	1,857	10'-1"	1,307	162	#6	6"	53'-4"	12,977	90	8"	39'-9"	2,390	210	39'-9"	5,576	56	6'-0"	224	305	4'-8"	951	13'-2"	2,683	65'-7"	175	130	369	4.072	1,103.2	4.7	544	167.6	44,670		
2	10'-0"	7'-0"	8"	7"	162	#6	6"	21'-6"	5,231	194	#4	5"	15'-4"	1,987	10'-1"	1,307	162	#6	6"	11'-0"	2,677	30	8"	39'-9"	797	78	39'-9"	2,071	56	7'-0"	262	61	4'-8"	190	15'-2"	618	21'-6"	57	46	131	1.528	378.5	1.6	188	62.7	15,328		
3	10'-0"	7'-0"	8"	7"	162	#6	6"	32'-1"	7,807	194	#4	5"	15'-4"	1,987	10'-1"	1,307	162	#6	6"	21'-7"	5,252	45	8"	39'-9"	1,195	111	39'-9"	2,947	56	7'-0"	262	122	4'-8"	380	15'-2"	1,236	32'-1"	86	66	187	2.202	559.3	2.4	273	90.5	22,646		
4	10'-0"	7'-0"	8"	7"	162	#6	6"	42'-8"	10,382	194	#4	5"	15'-4"	1,987	10'-1"	1,307	162	#6	6"	32'-2"	7,827	60	8"	39'-9"	1,593	144	39'-9"	3,824	56	7'-0"	262	183	4'-8"	570	15'-2"	1,854	42'-8"	114	88	250	2.876	740.2	3.2	364	118.2	29,970		
5	10'-0"	7'-0"	8"	7"	162	#6	6"	53'-3"	12,957	194	#4	5"	15'-4"	1,987	10'-1"	1,307	162	#6	6"	42'-9"	10,402	75	8"	39'-9"	1,991	177	39'-9"	4,700	56	7'-0"	262	244	4'-8"	761	15'-2"	2,472	53'-3"	142	110	312	3.549	921.0	4.0	454	146.0	37,293		
6	10'-0"	7'-0"	8"	7"	162	#6	6"	66'-5"	16,161	194	#4	5"	15'-4"	1,987	10'-1"	1,307	162	#6	6"	53'-4"	12,977	90	8"	39'-9"	2,390	210	39'-9"	5,576	56	7'-0"	262	305	4'-8"	951	15'-2"	3,090	65'-7"	175	130	369	4.223	1,117.5	4.7	544	173.6	45,245		
2	10'-0"	8'-0"	8"	7"	162	#6	6"	21'-6"	5,231	194	#4	5"	16'-4"	2,117	10'-1"	1,307	162	#6	6"	11'-0"	2,677	30	8"	39'-9"	797	84	39'-9"	2,230	56	8'-0"	299	61	4'-8"	190	17'-2"	700	21'-6"	57	46	131	1.593	388.7	1.6	188	65.3	15,736		
3	10'-0"	8'-0"	8"	7"	162	#6	6"	32'-1"	7,807	194	#4	5"	16'-4"	2,117	10'-1"	1,307	162	#6	6"	21'-7"	5,252	45	8"	39'-9"	1,195	119	39'-9"	3,160	56	8'-0"	299	122	4'-8"	380	17'-2"	1,399	32'-1"	86	66	187	2.288	572.9	2.4	273	93.9	23,189		
4	10'-0"	8'-0"	8"	7"	162	#6	6"	42'-8"	10,382	194	#4	5"	16'-4"	2,117	10'-1"	1,307	162	#6	6"	32'-2"	7,827	60	8"	39'-9"	1,593	154	39'-9"	4,089	56	8'-0"	299	183	4'-8"	570	17'-2"	2,099	42'-8"	114	88	250	2.984	757.1	3.2	364	122.6	30,647		
5	10'-0"	8'-0"	8"	7"	162	#6	6"	53'-3"	12,957	194	#4	5"	16'-4"	2,117	10'-1"	1,307	162	#6	6"	42'-9"	10,402	75	8"	39'-9"	1,991	189	39'-9"	5,019	56	8'-0"	299	244	4'-8"	761	17'-2"	2,798	53'-3"	142	110	312	3.679	941.3	4.0	454	151.2	38,105		
6	10'-0"	8'-0"	8"	7"	162	#6	6"	66'-5"	16,161	194	#4	5"	16'-4"	2,117	10'-1"	1,307	162	#6	6"	53'-4"	12,977	90	8"	39'-9"	2,390	224	39'-9"	5,948	56	8'-0"	299	305	4'-8"	951	17'-2"	3,498	65'-7"	175	130	369	4.374	1,141.2	4.7	544	179.7	46,192		
2	10'-0"	9'-0"	8"	7"	162	#6	6"	21'-6"	5,231	194	#4	5"	17'-4"	2,246	10'-1"	1,307	162	#6	6"	11'-0"	2,677	30	8"	39'-9"	797	90	39'-9"	2,390	56	9'-0"	337	61	4'-8"	190	19'-2"	781	21'-6"	57	46	131	1.657	398.9	1.6	188	67.9	16,144		
3	10'-0"	9'-0"	8"	7"	162	#6	6"	32'-1"	7,807	194	#4	5"	17'-4"	2,246	10'-1"	1,307	162	#6	6"	21'-7"	5,252	45	8"	39'-9"	1,195	127	39'-9"	3,372	56	9'-0"	337	122	4'-8"	380	19'-2"	1,562	32'-1"	86	66	187	2.374	586.5	2.4	273	97.4	23,731		
4	10'-0"	9'-0"	8"	7"	162	#6	6"	42'-8"	10,382	194	#4	5"	17'-4"	2,246	10'-1"	1,307	162	#6	6"	32'-2"	7,827	60	8"	39'-9"	1,593	164	39'-9"	4,355	56	9'-0"	337	183	4'-8"	570	19'-2"	2,343	42'-8"	114	88	250	3.092	774.0	3.2	364	126.9	31,324		
5	10'-0"	9'-0"	8"	7"	162	#6	6"	53'-3"	12,957	194	#4	5"	17'-4"	2,246	10'-1"	1,307	162	#6	6"	42'-9"	10,402	75	8"	39'-9"	1,991	201	39'-9"	5,337	56	9'-0"	337	244	4'-8"	761	19'-2"	3,124	53'-3"	142	110	312	3.809	961.6	4.0	454	156.4	38,916		
6	10'-0"	9'-0"	8"	7"	162	#6	6"	66'-5"	16,161	162	#5	6"	17'-4"	2,929	10'-6"	1,774	162	#6	6"	53'-4"	12,977	90	8"	39'-9"	2,390	238	39'-9"	6,320	56	9'-0"	337	305	4'-8"	951	19'-2"	3,905	65'-7"	175	130	369	4.526	1,193.6	4.7	544	185.7	48,288		
2	10'-0"	10'-0"	8"	7"	162	#6	6"	21'-6"	5,231	162	#5	6"	18'-4"	3,098	10'-6"	1,774	162	#6	6"	11'-0"	2,677	30	8"	39'-9"	797	90	39'-9"	2,390	56	10'-0"	374	61	4'-8"	190	21'-2"	862	21'-6"	57	46	131	1.722	434.8	1.6	188	70.5	17,581		
3	10'-0"	10'-0"	8"	7"	162	#6	6"	32'-1"	7,807	162	#5	6"	18'-4"	3,098	10'-6"	1,774	162	#6	6"	21'-7"	5,252	45	8"	39'-9"	1,195	127	39'-9"	3,372	56	10'-0"	374	122	4'-8"	380	21'-2"	1,725	32'-1"	86	66	187	2.461	624.4	2.4	273	100.8	25,250		
4	10'-0"	10'-0"	8"	7"	162	#6	6"	42'-8"	10,382	162	#5	6"	18'-4"	3,098	10'-6"	1,774	162	#6	6"	32'-2"	7,827	60	8"	39'-9"	1,593	164	39'-9"	4,355	56	10'-0"	374	183	4'-8"	570	21'-2"	2,587	42'-8"	114	88	250	3.200	814.0	3.2	364	131.2	32,924		
5	10'-0"	10'-0"	8"	7"	162	#6	6"	53'-3"	12,957	162	#5	6"	18'-4"	3,098	10'-6"	1,774	162	#6	6"	42'-9"	10,402	75	8"	39'-9"	1,991	201	39'-9"	5,337	56	10'-0"	374	244	4'-8"	761	21'-2"	3,450	53'-3"	142	110	312	3.938	1,003.6	4.0	454	161.5	40,598		
6	10'-0"	10'-0"	8"	7"	162	#6	6"	66'-5"	16,161	162	#5	6"	18'-4"	3,098	10'-6"	1,774	162	#6	6"	53'-4"	12,977	90	8"	39'-9"	2,390	238	39'-9"	6,320	56	10'-0"	374	305	4'-8"	951	21'-													

COLLIN COUNTY OUTER LOOP Highway & Bridge -Phase/ Staging Evaluation
STA 14+63 TO STA 257+32.20

OPERATION PHASES OF CONSTRUCTION	QTY	UNIT	RATE OF APPLICATION		WORK DURATION	NO. OF DAYS
			APPROX.	QUANTITY		
Phase 1 Stage 1A						
Work Zone Traffic Control - Signs, striping, Drums etc.	1.0	LS	1	LS	1	1
Excav, Place Flexbase, HMAC - Temp Pavement	643.0	SY	3	PVT	3	3
PCTB w/ Attenuators	240.0	LF	500	LF/DAY	1	0
Throckmorton Creek Culvert 4- 10'x10'	60.0	LF			15	15
Headwalls 70 wide avg.	2.0	EA	10	DAYS/EA	10	10
Phase 1 Stage 1B - Traffic Switched SH75						
Work Zone Traffic Control - Signs, striping, Drums etc.	1.0	LS			1	1
PCTB w/ Attenuators	570.0	LF	500	LF/DAY	1	1
STA 15+15 to 24+00 to 34+00						
Excavation	9,628.0	CY	1200	CY/DAY	9	
Embankment	12,162.0	CY			11	11
8" Lime Treatment	5,550.0	SY	2200	SY/DAY	6	4
4" TY B HMAC	1,130.0	TON	750	TON/DAY	2	1
8" CRCP	5,131.0	SY	4050	SY/DAY	2	
					3	5
ASHPLAT PAVEMENT - CR 366 & SH 75						
Excav, Lime, Place Flexbase, HMAC - Premanant Pavement = 2+3+3+2	1,054.0	SY	10	PVT	10	10
Phase 1 Stage 1B - Traffic Switched SH 5						
Work Zone Traffic Control - Signs, striping, Drums etc.	1.0	LS			1	0
PCTB w/ Attenuators	420.0	LF	500	LF/DAY	1	1
Culvert E, 2 - 5'x2'; Two crews constructing CIP Culverts	150.0	LF			6	
Culvert F, 1 - 4'X2'	136.0	LF			4	
Culvert G-1, 1 - 5'X2'	86.0	LF			4	
Culvert G-2, 2 - 24" RCP	200.0	LF	400	LF/DAY	1	15
Culvert D, 2 - 7'X3'	144.0	LF			4	
Culvert C, 2 - 7'X4'	168.0	LF			4	
Culvert B, 1 - 4'X3'	76.0	LF			3	
Culvert A, 2 - 4'X3'	220.0	LF			4	
				30		
Bridge to SH 5; Sta 36+52 to 98+91						
Excavation	76,218.0	CY	2600	CY/DAY	29	29
Embankment	36,419.0	CY	2600	CY/DAY	14	0
8" Lime Treatment	22,876.0	SY	2200	SY/DAY	14	0
4" TY B HMAC - (20,796 SY)	4,575.0	TON	750	TON/DAY	9	0
8" CRCP - 6239 lf	20,103.0	SY	4050	SY/DAY	10	0
ASHPLAT PAVEMENT - SH 5 & CR 365						
Excav, Lime, Place Flexbase, HMAC - Premanant Pavement = 2+3+3+2	1,600.0	SY	10	PVT	10	10
Phase 1 Stage 1B - Traffic Switched SH 121						
Work Zone Traffic Control - Signs, striping, Drums etc.	1.0	LS				1
PCTB w/ Attenuators	270.0	LF	500	LF/DAY		0
Culvert R - 24" RCP	140.0	LF	400	LF/DAY	1	30
Culvert Q - 30" RCP	100.0	LF	400	LF/DAY	1	
Culvert P, 2 - 5'x4'	80.0	LF			4	
Culvert O, 1 - 7'X4'	66.0	LF			5	
Culvert N, 2 - 10'x6'	160.0	LF			8	
Culvert M, 1 - 6'X4'	90.0	LF			5	

OPERATION PHASES OF CONSTRUCTION	QTY APPROX.	UNIT	RATE OF APPLICATION		WORK DURATION PER OPERATION	NO. OF DAYS START NEXT OPERATION
			QUANTITY	UNIT		
Culvert L, 2 - 10'x8'	190.0	LF			9	
Culvert K, 2 - 7'X3'	140.0	LF			4	
Culvert J, 2 - 5'X2'	152.0	LF			4	
Culvert I, 3 - 5'X2'	228.0	LF			5	
Culvert H, 4 - 9'x5'	384.0	LF			20	
SH 5 to SH121; 113+12 to 252+72				66		
Excavation	69,169.0	CY	2600	CY/DAY	27	27
Embankment	45,642.0	CY	2600	CY/DAY	18	0
8" Lime Treatment	51,186.0	SY	2200	SY/DAY	26	6
4" TY B HMAC -(46,533 SY)	10,237.0	TON	750	TON/DAY	16	8
8" CRCP - 13,960 LF	44,982.0	SY	4050	SY/DAY	22	
ASHPLAT PAVEMENT - SH 121	736.0	SY	6	PVT	6	6
Excav, Lime, Place Flexbase, HMAC - Premenant Pavement = 1+2+2+1					373.48	195
Phase 1 Stage II - TRAFFIC SWITCH SH 75						
Work Zone Traffic Control - Signs, striping, Drums etc.	1.0	LS	1.00		1	1
PCTB w/ Attenuators	630.0	LF	500	LF/DAY	2	1
Excavation - Removal of Exist Pavement	628.0	CY	325.00	CY/DAY	2	2
8" Lime Treatment	2,145.0	SY	2200	SY/DAY	4	4
4" TY B HMAC - 1,950 SY	429.0	TON	750	TON/DAY	1	1
8" CRCP - 585LF	943.0	SY	4050	SY/DAY	4	4
Channelization Devices						
Phase I Duration w/Float Straight lined -	1.0				14	13
Phase 1 Stage III - CR 365						
Work Zone Traffic Control - Signs, striping, Drums etc.	1.0	LS	1.00		2	2
Excavation -		CY	2,000.00	CY/DAY		4
Embankment		CY	2,000.00	CY/DAY		4
8" Lime Treatment			2200	SY/DAY		4
4" TY B HMAC			750	TON/DAY		3
8" CRCP			4050	SY/DAY		10
Phase I Duration w/Float Straight lined -	-25.0				2	27
Phase 1 Stage III - CR 418; Mill Rd. & CR 419						
Work Zone Traffic Control - Signs, striping, Drums etc.	1.0	LS	1.00		2	2
Excavation		CY	2,000.00	CY/DAY		8
Embankment		CY	2,000.00	CY/DAY		8
8" Lime Treatment			2200	SY/DAY		12
4" TY B HMAC			750	TON/DAY		6
8" CRCP			4050	SY/DAY		18
Phase I Duration w/Float Straight lined -	-52.0				2	54
Phase 2 - Bridges over Slayter Creek						
Approx 175ft, 28ft wide ; Three Drill Shift per Bent - Total of Four Bents	1.0	LS				

	OPERATION PHASES OF CONSTRUCTION	QTY APPROX.	UNIT	RATE OF APPLICATION		WORK DURATION PER OPERATION	NO. OF DAYS START NEXT OPERATION
				QUANTITY	UNIT		
1	Installation of Drill Shaft - 2 shaft per day, drilled and concrete placed					12	8
2	Column placement - (4 Bents One set of Two forms)					12	7
3	Conc. Cap - (4 Bents/ 3 day's per cap: Set formwork/Resteel/Conc.Cure to strip bottom falsework) 1days start & 3days after last Column placed					10	10
4	Erection of Type 'C' Precast Beams - (3 Spans Structure/ one span over traffic Nighttime- Allowed Min. 14 days for Cap Cure before Beam placement.					15	15
5	Deck - Precast panels & PMD ends of Spans					8	6
6	Overhang brackets/ side forms					10	6
7	Set Top 4inch deck reinforcement including Joint Armor					8	4
8	Set Screed for concrete placement					8	4
9	Place concrete top section deck					2	2
10	Deck curing with blankets wet curing Base on allowable access onto the deck surface 7/ 14 / 28 days or until the deck concrete reaches it's design strength					10	10
						15	15
11	Forming and placement of bridge rail					6	3
12	Installing Striping					2	2
	Phase I Duration w/Float Straight lined -	26.0				118	92
	Phase I Duration w/Float Straight lined -	0.0				0	0
	Number of Days =					509.48	381
	Months (Base on 5 day work week) =					25.5	18.1