

**Introduction**

**Engineering  
Skills  
Development**

**Supplemental Workbook**



DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

CONTRACT

DO NOT UNSTAPLE THIS BOOKLET...ENTER ALL REQUIRED INFORMATION  
----- EITHER BY HAND OR BY STAMP.

DATE OF OPENING : June 23, 1995

CALL ORDER : 032

CONTRACT ID : B18819-00-000-1

PCN	PROJECTS AND CONTRACT NO.
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1770278010001	BRZLB-121(12) 01
COUNTY : FULTON	

CODE: 2KE800

1. KERSH CONSTRUCTION, INC.

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

CONTRACT ID : B18819-00-000-1

0.170 MILE OF CONSTRUCTION OF A BRIDGE CULVERT AND  
APPROACHES ON CR 485 (ENON RD) AT ENON CREEK.  
(E)

SITE	CONTRACT TIME	LIQUIDATED DAMAGES
00 COMPLETE CONTRACT	365 CALENDAR DAYS	\$ 150.00
01 PROJECT COMPLETION - SEE SPEC PROV SEC 108	90 AVAILABLE DAYS	\$ 210.00

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
CONTRACT SCHEDULE

DATE : 04/20/98  
PAGE : 3

CONTRACT ID: B18819-00-000-1

PROJECT(S) : 1770278010001 BRZLB-121(12) 01

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
SECTION 0001 ROADWAY					254,974.70	
0005	150-1000 TRAFFIC CONTROL - BRZLB-121(12) 01	LUMP	LUMP		7,320.00	
0010	163-0010 TEMPORARY GRASS - BRZLB-121(12) 01	LUMP	LUMP		800.00	
0015	163-0012 TEMPORARY MULCH - BRZLB-121(12) 01	LUMP	LUMP		900.00	
0020	163-2051 CONSTR, MAINT AND REMOVE BALED STRAW EROSION CHECK	LF	1,500.000	2.50000	3,750.00	
0025	171-0010 TEMPORARY SILT FENCE, TYPE A	LF	2,200.000	2.50000	5,500.00	
0030	171-0030 TEMPORARY SILT FENCE, TYPE C	LF	320.000	5.00000	1,600.00	
0035	207-0203 FOUND BKFILL MATL, TP II	CY	180.000	25.00000	4,500.00	
0040	210-0100 GRADING COMPLETE - BRZLB-121(12) 01	LUMP	LUMP		15,000.00	
0045	310-1101 GR AGGR BASE CRS, INCL MATL	TN	865.000	17.00000	14,705.00	
0050	318-3000 AGGR SURF CRS	TN	75.000	17.00000	1,275.00	

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
CONTRACT SCHEDULE

DATE : 04/20/98  
PAGE : 4

CONTRACT ID: B18819-00-000-1

PROJECT(S) : 1770278010001 BRZLB-121(12) 01

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0055	402-0011 RECYCLED ASPH CONC B, GP 1 OR 2, INCL BITUM MATL	177.000 TN	42.50000		7,522.50	
0060	402-0050 RECYCLED ASPH CONC E, BLEND 1, INCL BITUM MATL	207.000 TN	44.60000		9,232.20	
0065	402-1811 RECYCLED ASPH CONC LEVELING, INCL BITUM MATL	75.000 TN	45.00000		3,375.00	
0070	413-1000 BITUM TACK COAT	85.000 GL	3.00000		255.00	
0075	441-0016 DRIVEWAY CONCRETE, 6 IN TK	48.000 SY	45.00000		2,160.00	
0080	441-0204 PLAIN CONC DITCH PAVING, 4 IN	20.000 SY	80.00000		1,600.00	
0085	500-3101 CLASS A CONCRETE	408.000 CY	260.00000		106,080.00	
0090	511-1000 BAR REINF STEEL	49,250.000 LB	0.46000		22,655.00	
0095	540-1101 REMOVAL OF EXISTING BR, STA NO - 20+00	LUMP	LUMP		22,000.00	
0100	550-1360 STORM DRAIN PIPE, 36 IN, H 1-10	16.000 LF	80.00000		1,280.00	
0105	550-2180 SIDE DRAIN PIPE, 18 IN, H 1-10	52.000 LF	25.00000		1,300.00	

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
CONTRACT SCHEDULE

DATE : 04/20/98  
PAGE : 5

CONTRACT ID: B18819-00-000-1

PROJECT(S) : 1770278010001 BRZLB-121(12) 01

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0110	550-3418 SAFETY END SECTION 18 IN, SIDE DRAIN, 4:1 SLOPE	EA 4.000	500.00000		2,000.00	
0115	550-4118 FLARED END SECTION 18 IN, SIDE DRAIN	EA 4.000	300.00000		1,200.00	
0120	550-4236 FLARED END SECTION 36 IN, STORM DRAIN	EA 2.000	1,000.00000		2,000.00	
0125	603-2018 STN DUMPED RIP RAP, TP 1, 18 IN	SY 20.000	60.00000		1,200.00	
0130	634-1200 RIGHT OF WAY MARKER	EA 26.000	60.00000		1,560.00	
0135	641-1200 GUARDRAIL, TP W	LF 610.000	11.50000		7,015.00	
0140	641-5001 GUARDRAIL ANCHORAGE, TP 1	EA 2.000	415.00000		830.00	
0145	641-5011 GUARDRAIL ANCHORAGE, TP 11	EA 2.000	1,225.00000		2,450.00	
0150	654-1001 RAISED PVMT MARKERS TP 1	EA 22.000	5.00000		110.00	
0155	700-0200 GRASSING - BRZLB-121(12) 01	LUMP	LUMP		3,800.00	
TOTAL BID						254,974.70

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

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**PROPOSAL INDEX**

Call Order Number: 21

Let Date: December 15, 2000

Project No.: NH-2-1(67)01 WARE

**Listed below are modifications and additions to the 1993 Standard Specifications and the 1997 Supplemental Specifications.**

DBE Requirements	Sec. 870 - Paint
Federal Aid Requirements	Sec. 880 - Water
Certification/Drug Free Workplace	Sec. 883 - Mineral Filler
Signature Page	Sec. 913 - ReflectORIZING Materials
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Certificate of Year 2000 (Y2K) Compliance	Sec. 150 - Traffic Control
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Sec. 103 - Award and Execution of Contract	Sec. 152 - Field Laboratory Building
Sec. 105 - Control of Work	Sec. 158 - Training Program
Sec. 107 - Legal Regulations and Responsibility to the Public (2)	Sec. 400 - Hot Mix Asphaltic Concrete Construction (3)
Sec. 108 - Prosecution and Progress	Sec. 402 - Hot Mix Recycled Asphaltic Concrete
Sec. 109 - Measurement and Payment	Sec. 446 - Placement of Pavement Reinforcement Fabric
Sec. 160 - Reclamation of Material Pits and Waste Areas	Sec. 456 - Rumble Strips
Sec. 205 - Roadway Excavation	Sec. 636 - Milepost Signs
Sec. 206 - Borrow Excavation	Sec. 641 - Guardrail
Sec. 208 - Embankments	Sec. 647 - Traffic Signal Installation
Sec. 210 - Grading Complete	Sec. 801 - Fine Aggregate
Sec. 431 - Grind Concrete Pavement	Sec. 802 - Aggregates for Asphaltic Concrete
Sec. 432 - Mill Asphalt Concrete Pavement	Sec. 819 - Fiber Stabilizing Additives
Sec. 442 - Sealing Roadway and Bridge Joints	Sec. 820 - Asphalt Cement
Sec. 452 - Full Depth Slab Replacement	Sec. 828 - Hot Mix Asphaltic Concrete Mixtures
Sec. 461 - Resealing Roadway and Bridge Joints and Cracks	Sec. 853 - Reinforcement and Tensioning Steel
Sec. 500 - Concrete Structures(2)	Sec. 925 - Traffic Signal Equipment
Sec. 511 - Reinforcing Steel	Sec. 935 - Fiber Optic Systems
Sec. 535 - Painting Structures	Sec. 107 - Legal Regulations and Responsibility to the Public
Sec. 550 - Storm Drain Pipe, Pipe-Arch Culverts, and Side Drain Pipe	Sec. 161 - Control of Soil Erosion and Sedimentation
Sec. 561 - Renovating Existing Pipe	Sec. 162 - Erosion Control Check Dams
Sec. 636 - Highway Signs	Sec. 163 - Miscellaneous Erosion Control Items
Sec. 638 - Structural Supports for Overhead Signs	Sec. 165 - Maintenance of Temporary Erosion and Sedimentation Control Devices
Sec. 652 - Painting Traffic Stripe	Sec. 166 - Restoration or Alteration of Lakes and Ponds
Sec. 653 - Thermoplastic Traffic Stripe	Sec. 170 - Silt Retention Barrier
Sec. 659 - Hot Applied Preformed Plastic Pavement Markings	Sec. 171 - Temporary Silt Fence
Sec. 701 - Wildflower Seeding	Sec. 700 - Grassing
Sec. 702 - Vine, Shrub and Tree Planting (2)	Sec. 713 - Organic & Synthetic Material Fiber Blanket
Sec. 804 - Abrasives for Blast Cleaning	Sec. 715 - Bituminous Treated Roving
Sec. 813 - Pond Sand	Sec. 716 - Erosion Control Mats (Blankets)
Sec. 815 - Graded Aggregate	Sec. 719 - Silt Filter Bag
Sec. 829 - Recycled Oil for Drying Aggregate for Asphaltic Concrete	Sec. 720 - Triangular Silt Barrier
Sec. 831 - Admixtures	Sec. 822 - Emulsified Asphalt
Sec. 833 - Joint Fillers and Sealers	
Sec. 845 - Smooth Lined Corrugated Polyethylene (PE) Culvert Pipe	

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

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**SPECIAL PROVISION**  
**SECTION 108 — PROSECUTION AND PROGRESS**

December 10, 1999

*Delete Sub-Section 108.08.A.1 and Substitute the following:*

1. **DEDUCTION FROM PARTIAL PAYMENTS:** Liquidated damages, as they accrue, will be deducted from periodic partial payments and, if necessary, from the Final Payment.

**SPECIAL PROVISION**  
**SECTION — 109 MEASUREMENT AND PAYMENT**

December 10, 1999

*Delete the second paragraph of Sub-Section 109.03 which begins with "The payment of any partial estimate".....and Substitute the following:*

The payment of any partial estimate prior to final acceptance of the Project as provided in Sub-Section 105.16 shall in no way affect the obligation of the Contractor, to repair, or renew any defective parts of the construction or to be responsible for all damages due to such defects.

*Delete the second paragraph of Sub-Section 109.07.A which begins with "When so requested...." and substitute the following:*

When so requested by the Contractor and approved by the Engineer, Gross Earnings of \$150,000 or more for work completed within the first fifteen (15) days of any month will be certified for payment on a semi-monthly basis, subject to the conditions and provisions of Sub-Section 109.07.A.7.

*Delete Sub-Section 109.07.A.8. and Substitute the following:*

**8. MINIMUM PAYMENT**

No partial payment will be made unless the amount of payment is at least \$1000.00.

*Delete Sub-Section 109.07.C. and Substitute the following:*

**C. INTEREST:** Under no circumstances will any interest accrue or be payable on any sums withheld or deducted by the Department as authorized by Sub-Section 109.07.A.

*Delete Sub-Section 109.07.D. and Substitute the following:*

**D.** The Contractor shall insert the following in each Subcontract entered into for work under this Contract:

DEPARTMENT OF TRANSPORTATION  
State of Georgia

SPECIAL PROVISION

Project: NH-2-1(67)01  
P.I. No.: 523255

SECTION 636 - HIGHWAY SIGNS

Add the following to Section 636.04 Measurement:

Milepost signs measured for payment will be the actual number in place, completed, and accepted. This includes galvanized steel posts, Type 2, and fasteners as required.

Milepost Signs measured for payment will be paid for per each, which payment shall be full compensation for furnishing and erecting the Item complete in place in accordance with the Plans and Specifications.

Payment will be made under:

Item No. 636. Milepost Signs ..... per Ea

**DEPARTMENT OF TRANSPORTATION  
State of Georgia**

**SPECIAL PROVISION**

**Project: NH-002-1 (67)  
WARE COUNTY  
P.I. NO. 523255**

**ADDITION TO THE STANDARD SPECIFICATIONS;  
CURRENT EDITION**

**Section 935 - Fiber Optic System**

The text included herein is written in the imperative mood (sentences often begin with commands). All commands and references in, or in connection with, the text in this document are written to imply **Contractor responsibility for action** unless otherwise specified.

**935.1 General Description**

This work includes the installation of fiber optic cable and equipment including but not limited to cable, interconnect, patch cords, pig tails, any cable related hardware, connectors, splices, closures, temporary systems, testing, training, or any other fiber optic product as specified on the Plans, or noted in any other Section of these Specifications.

**935.1.01 Definitions**

Not applicable

**935.1.02 Related References**

**A. Georgia Specifications**

Section 150 – Traffic Control

Section 639 – Timber Poles

Section 639 - Guys

Section 647.12 - Lashing

Section 682 – Electrical Wire, Cable and Conduit

## **B. Referenced Documents**

EIA Standard FOP-II, Test Condition 1

EIA/TIA-492AAAA, "Detail Specification for 62.5  $\mu\text{m}$  Core Diameter/125  $\mu\text{m}$  Cladding Diameter Class IA Multimode, Graded Index Optical Waveguide Fibers", Current Edition

EIA/TIA 492-BA000 Class 4A, Current Edition

EIA/TIA-598-A, "Color Coding of Fiber Optic Cable"

National Electrical Code Section 770:

- Applicable Flame Tests: UL 1581 and UL 1666 (Non-Plenum Applications)
- Applicable Flame Test UL 910 (NFPA 262-1994) (Plenum Applications)

United States Department of Agriculture Rural Utilities Service (RUS) standard 7 CFR 1755.900:

- FOTP-25, "Repeated Impact Testing of Fiber Cables"
- FOTP-41, "Compressive Loading Resistance of Fiber Optic Cables"
- FOTP-123, "Measurement of Optical Fiber Ribbon Dimensions"
- FOTP-181, "Lightning Damage Susceptibility Test for Optic Cables with Metallic Components"

### **935.1.03 Submittals**

Prior to any work, obtain approval from the Engineer for the products and procedures to be used on the Project.

The following chart provides the Contractor with an outline of the submittal requirements for the equipment and components for this pay item. This chart is to be used as a guide and does not relieve the Contractor from submitting additional information to form a complete submittal package.

Material	Specification Reference	Catalog Cuts	Mfg. Spec.	Factory Test	Materials Cert.	Lab. Test Reports	Install. Proced.	Test Schedule	Test Plan	Test Reports	Submittal Due Date (Cal. Days after NTP)
F.O. Cable (OSP&IP)	935.2.A,B,&C	X	X		X		X	X	X	X	60 Days
Patch Cords & Pig Tails	935.2.D	X	X						X		60 Days
Drop Cable	935.2.E	X	X						X		60 Days
F.O. Connectors	935.2.F	X	X								60 Days
Splice Closure	935.2.G&H	X	X	X		X					60 Days
Mech. Lab Splice	935.2.I	X	X								60 Days
FDC	935.2.J	X	X								60 Days
Transceivers	935.2.K	X	X								60 Days
Splice Procedures	935.1.03C						X				60 Days

Submit submittal data for all equipment, materials, test procedures, and routine maintenance procedures required for these items within 60 calendar days after the Notice To Proceed and prior to any installation, unless noted otherwise in the Contract Documents.

Submit to the Engineer for approval, six (6) copies of the manufacturer's descriptive literature (catalog cuts), technical data, operational documentation, service and maintenance documentation and all other materials required within these specifications.

Provide submittal data that is neat, legible, and orderly. Neatly organize each package of submittal data and separate by hardware item. Use the "Materials Certification Package Index and Transmittal Form", contained in Section 105.02 of the Special Provisions, for each pay item to document and list all material and components that are included in the submittal package. Any submittal data submitted without the Index/Transmittal form or that is incomplete will be rejected.

**A. Cable Certification**

Prior to installing any fiber optic cable on the Project, obtain approval for the cable type, cable manufacturer, fiber content, design and installation procedure from the Engineer. Request approval by submitting catalog cuts and factory specifications for the fiber optic cable.

**B. Underground Splice Closures:**

Provide certification from an independent testing laboratory that certifies that the splice closures conform to the specifications and test procedures.

**C. Splicing Procedures**

Submit for Department approval the procedure to be used for the splicing of all cables on this project. Within the submittal documents include the proposed process, cleave tool and the specific fusion splicer to be used.

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## QPL 28— Filter Fabric

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Revised: June 1997

Georgia Department of Transportation  
Qualified Products List 28  
Filter Fabric

The following is a list of Filter Fabrics that have been evaluated by the Office of Materials and Research and have proven their capability of meeting the requirements of Standard Specification Section 881.2 and have satisfied the requirements of SOP-17, "Acceptance of Miscellaneous Construction Items." For a complete list of QPLs, please see the Table of Contents.

### (A) WOVEN FABRICS

<b>Manufacturer</b>	<b>Trade Name</b>
Amoco Fabrics and Fibers Co. 900 Circle 75 Parkway Suite 550 Atlanta, GA 30339 (404) 984-4491	CEF-1199 CEF-2019
Carthage Mills, Inc. 1821 Summit Road Cincinnati, OH 45237 (513) 761-4141	CARTHAGE 6%
Contech Construction Products, Inc. P.O. Box 29649 Atlanta, GA 30359 (404) 325-0814	CONTECH C70/06
LINQ Industrial Fabrics, Inc. 2550 W. 5th North Street Summerville, SC 29483 (803) 875-8175	GTF-400E
TC Mirafi 365 South Holland Drive Pendergrass, GA 30567 (706) 693-2226 (800) 234-0484	Filterweave® 403
Synthetic Industries Construction Products Division 4019 Industry Drive Chattanooga, TN 37416 (423) 899-0444 (800) 621-0444	GEOTEX 104 F
Webtec, Inc. P.O. Box 240302 Charlotte, NC 28224 398-0954 (800) 423-0027	TERRATEX EP

## QPL 28— Filter Fabric

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### (B) NON-WOVEN FABRICS

<b>Manufacturer</b>	<b>Trade Name</b>
Amoco Fabrics and Fibers Co. 900 Circle 75 Parkway Suite 550 Atlanta, GA 30339 (404) 984-4491	CEF-4545 CEF-4546 CEF-4547
Carthage Mills 1821 Summit Road Cincinnati, OH 45237 (513) 761-4141	FX35HS FX40NW FX30HS
Contech Construction Products, Inc. P.O. Box 49526 Atlanta, GA 30359 (404) 325-0814	CONTECH C31 NW CONTECH C35 NW
LINQ Industrial Fabrics, Inc. 2550 W. 5th North Street Summerville, SC 29438 (803) 875-8175	GTF-125EX GTF-130EX GTF-140EX GTF-150EX GTF-160EX GTF-180EX TYPAR 3341
TC Mirafi 365 South Holland Drive Pendergrass, GA 30567 (706) 693-2226 234-0484	140 N 140 NL 180 N
Synthetic Industries Construction Products Division 4019 Industry Drive Chattanooga, TN 37416 (423) 899-0444 (800) 621-0444	GEOTEX 311 GEOTEX 351
Webtec, Inc. P.O. Box 240302 Charlotte, NC 28224 (704) 398-0954 (800) 438-0027	TERRATEX SD TERRATEX NO. 4

Note #1: Woven Fabrics are suitable for use beneath rip rap when stone is dropped from heights not exceeding three feet. Woven fabrics which meet the flow rate requirements of Section 881.2.06 may be used for edge drains.

Non-Woven Fabrics may be used to line edge drains, underdrains or behind retaining walls where specified. Non-woven fabrics shall not be used for filter beneath rip rap.

Note #2: All Trade Names are Registered Trademarks of the appropriate company.

## QPL 36— Silt Fence Fabrics

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Revised: June 1997

Georgia Department of Transportation  
Qualified Products List 36  
Silt Fence Fabrics

Following is a list of Silt Fence Fabrics that have been evaluated by the Office of Materials and Research and have proven their capability of meeting the requirements of Section 171 of the Standard Specifications and have satisfied the requirements of SOP-17, "Acceptance of Miscellaneous Construction Items."

<b>Manufacturer</b>	<b>Trade Name</b>	<b>Types</b>
American Excelsior Company 302 U.S. Hwy. 341 South Barnesville, GA 30204 358-7748 (800) 241-4137	SF 48	A
Amoco Fabrics and Fibers Co. 900 Circle 75 Parkway Suite 550 Atlanta, GA 30339 (404) 984-4491	CEF-1198 CEF-2019 CEF-2122 CEF-2132	A,B,C A,B A,B A,B
Belton Industries, Inc. 8613 Roswell Road Suite 200 Atlanta, GA 30350 (404) 587-0257	BELTECH 755 BELTECH 768	A,B A,B,C
Cady Bag Company P.O. Box 68  Pearson, GA 31642 243-2451	20-CSF 350/36 20-CSF 350/24	A,B B
Carthage Mills 4243 Hunt Rd. Cincinnati, OH 45242 (513) 794-1600 (800) 543-4430	Carthage 15%	A,B,C
LINQ Industrial Fabrics, Inc. 2550 W. 5th North Street Summerville, SC 29483 (803) 875-8175	GTF-400EO	A,B,C
Synthetic Industries Construction Products Div. 4019 Industry Drive Chattanooga, TN 37416 (615) 899-0444	GEOTEX 111 GEOTEX 914SC	A,B,C A,B

## **QPL 36— Silt Fence Fabrics**

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Webtec, Inc.  
P.O. Box 240302  
Charlotte, NC 28224  
(704) 398-0954

TERRATEX GASF      A,B

**Note 1:** All Trade Names are Registered Trademarks of the appropriate company.

**Note 2:** Filter fabric used in the construction of Type "A" and "B" fences may be either the woven or non-woven type. In the construction of woven fabrics, slit tape yarns will be allowed in one direction (warp or fill) only. Filter fabric used in the construction of Type "C" fences shall be a non-calendared woven fabric constructed with monofilament yarns only.



# Transportation Online Policy and Procedure System

GEORGIA DEPARTMENT OF TRANSPORTATION

5435-2

## Pre-Bid Discussions with Contractors and Suppliers

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*Document last updated 20-February-1996*

*See document history*

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### I. General

The purpose of this MOG is to establish policy and procedures for responding to questions by Contractors and Suppliers prior to a Contract Letting. It is essential that all bidders have consistent and complete information for the preparation of their bid.

### II. Policy

All DOT employees are alerted to use extreme cautions when communicating with Contractors and Suppliers concerning the interpretation of Contract Documents during the prebid stage of an advertised Letting. It is permissible to answer straightforward administrative type questions, such as, approved material suppliers, stockpile locations, etc. However, under no circumstance should an employee interpret the intent of Contract Documents or Plans for a Contractor. The written Contract Documents and Amendments will be the sole basis for the administration of an executed Contract and Contractors must prepare their bids accordingly.

All questions from contractors, concerning Contract requirements shall be directed to the Office of Contract Administration. The Office of Contract Administration will determine if the question involves a matter that should be brought to the attention of all bidders. If so, an Amendment will be issued and distributed to all known prospective bidders.

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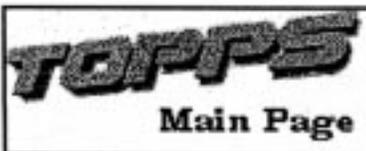
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