

PENNSYLVANIA GAME COMMISSION
SGL #61 STAGE COACH ROAD PROJECT

North Central Region
Liberty Township
McKean County

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PROJECT SPECIFICATIONS

The Contractor shall comply with the *Contract Terms and Conditions* provided with the Bid Documents including but not limited to the following:

INSURANCE REQUIREMENTS – In accordance with the *Contract Terms and Conditions*, the Contractor is required to have in place during the term of the Contract and any renewals or extensions thereof, the following types of insurance, issued by companies acceptable to the Commonwealth and authorized to conduct such business under the laws of the Commonwealth of Pennsylvania:

- A. **Worker's Compensation Insurance** for all of the Contractor's employees and those of any subcontractor, engaged in Work at the site of the project as required by law.
- B. **Public Liability and Property Damage Insurance** to protect the Commonwealth, the Contractor, and any and all subcontractors from claims for damages for personal injury (including bodily injury), sickness or disease, accidental death and damage to property including the loss of use resulting from any property damage, which may arise from the activities performed under the Contract or the failure to perform under the Contract, whether such performance or non-performance be by the Contractor, by any subcontractor, or by anyone directly or indirectly employed by either. **The minimum amounts of coverage shall be \$250,000 per person and \$1,000,000 per occurrence for bodily injury, including death, and \$250,000 per person and \$1,000,000 per occurrence for property damage.** Such policies shall be occurrence rather than claims-made policies and shall not contain any endorsements or any other form designated to limit and restrict any action by the Commonwealth, as an additional insured, against the insurance coverage in regard to Work performed for the Commonwealth.

Prior to commencement of the Work under the Contract and at each insurance renewal date during the term of the Contract, the Contractor shall provide the Commonwealth with current certificates of insurance. **These certificates or policies shall name the Commonwealth AND Pennsylvania Game Commission as additional insured and shall contain a provision that the coverage's afforded under the policies will not be cancelled or changed until at least thirty (30) days written notice has been given to the Commonwealth.**

COMPLIANCE WITH LAW – The Contractor shall comply with all applicable federal and state laws and regulations and local ordinances in the performance of the Contract.

WORKMANSHIP - All Work shall be performed in a Workmanlike manner and all materials and labor shall be in strict and entire conformity with the Drawings and Specifications.

INSPECTION AND CHANGES - All Work is subject to inspection and acceptance by the Pennsylvania Game Commission. Any Work rejected as defective or unsuitable shall be

removed and replaced with suitable Work and materials at the sole cost of the Contractor to the complete satisfaction of the Game Commission.

Changes shall be in accordance with the *Contract Terms and Conditions*.

TEMPORARY SERVICES AND JOB CONDITIONS - The Contractor shall be responsible for providing any and all temporary facilities necessary to execute and protect the Work. The Contractor shall accept all conditions as found upon examination of the site and shall coordinate, plan, and execute the Work accordingly. The Contractor shall cooperate in the arrangements of the Work as necessary to least affect the administration or operations of existing buildings, facilities, and infrastructure. The Contractor shall keep the Work site clean at all times.

PREVAILING WAGE – Prevailing minimum wages apply to this project. See *Contract Terms and Conditions* and attached Prevailing Wage Determination.

The Contractor and each Subcontractor shall file a statement each week and a final statement at the conclusion of the Work on the contract with the contracting agency, under oath, and in form satisfactory to the Secretary, certifying that workmen have been paid wages in strict conformity with the provisions of the contract as prescribed by this section or if wages remain unpaid to set forth the amount of wages due and owing to each workman respectively. The PA Labor and Industry “Weekly Payroll Certification for Public Works Projects” form shall be used. The initial and final Payroll Certifications shall be notarized.

PAYMENT TERMS - A schedule of values is provided with the bid. Payment will be made on a monthly basis upon satisfactory completion of items listed on the Schedule of Values and in accordance with the *Contract Terms and Conditions*.

All payments due to the Contractor shall be processed after all Work has been inspected and approved by an agent of the Pennsylvania Game Commission. Payment will not be made for Work that is not progressing satisfactorily or for unsuitable or defective Work.

Payments may be withheld for failure to provide required documentation for the project including but not limited to required submittals / shop drawings and weekly submission of Certified Payrolls.

INVOICING – All Project invoices shall be submitted directly to:

Foster Schaffer, Engineering Consultant
Pennsylvania Game Commission
2001 Elmerton Avenue
Harrisburg, PA 17110
Office: 717-787-4250, ext. 73322
Email: c-fschaffe@pa.gov

All invoices must be submitted in black and white with no color and shaded areas. Invoices must include the Purchase Order Number, Contractor’s SAP Vendor Number, and the Contractor’s

name and address as listed on the Purchase Order. Payment items on invoices shall match the items on the Purchase Order. Failure to submit invoices that meet these requirements will result in a delay of payment.

Please Note: Vendors are reminded to **NOT** include employer identification numbers, Social Security Numbers, bank account information, or other personally identifiable information on their invoices. That information is uniquely tied to your SAP Vendor Number and, for security purposes, should not be explicitly stated on an invoice.

CONTRACT TERM - The Contract shall commence upon delivery of Purchase Order to Contractor (estimated to be February 13, 2023) and shall terminate on **June 30, 2023**. Contract time is of the essence of the Project. All Work must be completed and accepted by this date.

EXCISE TAXES, PENNSYLVANIA SALES TAX - The Commonwealth is exempt from all Excise Taxes. See *Contract Terms and Conditions*.

OFFSET PROVISION - The Contractor agrees that the Commonwealth may set off the amount of any state liability or other debt of the Contractor or its subsidiaries that is owed to the Commonwealth and not being contested on appeal against any payments due the Contractor under this or any other contract with the Commonwealth.

PERFORMANCE SECURITY / CONTRACT BONDS – Within 10 days after award of the purchase order, the Bidder to whom the Contract is awarded, shall provide **Contract Performance Security** and a **Payment Bond** in a form acceptable to the Commonwealth for the amounts listed below and in accordance with the *Contract Terms and Conditions*.

A **Performance Bond** at one hundred percent (100%) of the contract amount, conditioned upon the faithful performance of the contract in accordance with the plans, specifications and conditions of the contract.

A **Payment Bond** in an amount equal to one hundred percent (100%) of the contract amount.

Performance and Payment Bonds shall be executed by a surety company authorized to do business in the Commonwealth and listed on the current U.S. Dept. of Treasury, Bureau of Fiscal Service, Department Circular 570 (<https://fiscal.treasury.gov/surety-bonds/list-certified-companies.html>). Bonds shall include a current Power of Attorney dated the same as the date of the bond. Bonds shall be made payable to the Commonwealth.

GUARANTY / WARRANTY – See *Contract Terms and Conditions* – all items are warranted for a period of one year following delivery by the Contractor and acceptance by the Commonwealth.

HOLD HARMLESS PROVISION - See *Contract Terms and Conditions* - The Contractor shall hold the Commonwealth harmless from and indemnify the Commonwealth against any and all third party claims, demands and actions based upon or arising out of any activities performed by the Contractor and its employees and agents under this Contract, provided the Commonwealth gives Contractor prompt notice of any such claim of which it learns.

ADDITIONAL PROVISIONS -

Contractor shall comply with the conditions listed below in accordance with the *Contract Terms and Conditions*:

1. **Steel Products Procurement Act**
2. **Prohibition Against the Use of Certain Steel and Aluminum Products (Trade Practices Act)**
3. **Reciprocal Limitations Act** - The form GSPUR89 (*Reciprocal Limitations Act Requirements*) is attached. The Contractor shall complete the applicable portions of pages 3 and 4 of the form and submit the completed pages within two days after the bid opening.
4. **Worker Protection and Investment Certification Form** - The form is attached. The Contractor shall complete the certification on the bottom of the form and submit it within two days after the bid opening.

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project Name:	State Game Lands #61 Stage Coach Road
Awarding Agency:	PA Game Commission
Contract Award Date:	1/25/2023
Serial Number:	22-09248
Project Classification:	Heavy/Highway
Determination Date:	12/15/2022
Assigned Field Office:	Altoona
Field Office Phone Number:	(814)940-6224
Toll Free Phone Number:	
Project County:	McKean County

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 22-09248 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Asbestos & Insulation Workers	5/1/2021		\$34.15	\$26.14	\$60.29
Asbestos & Insulation Workers	5/1/2022		\$35.50	\$26.79	\$62.29
Boilermakers	6/1/2016		\$40.90	\$27.61	\$68.51
Bricklayer	6/1/2021		\$29.92	\$21.81	\$51.73
Bricklayer	6/1/2022		\$30.97	\$22.71	\$53.68
Bricklayer	12/1/2022		\$31.62	\$23.06	\$54.68
Carpenters, Drywall Hangers, Framers, Instrument Men, Lathers, Soft Floor Layers	6/1/2021		\$29.93	\$15.81	\$45.74
Carpenters, Drywall Hangers, Framers, Instrument Men, Lathers, Soft Floor Layers	6/1/2022		\$30.62	\$16.47	\$47.09
Cement Finishers	6/1/2016		\$28.71	\$17.85	\$46.56
Cement Masons	6/1/2021		\$31.77	\$21.89	\$53.66
Drywall Finisher	6/1/2021		\$28.00	\$18.91	\$46.91
Drywall Finisher	6/1/2022		\$29.00	\$19.41	\$48.41
Electricians & Telecommunications Installation Technician	12/26/2021		\$45.86	\$29.29	\$75.15
Electricians & Telecommunications Installation Technician	12/26/2022		\$48.31	\$29.29	\$77.60
Elevator Constructor	1/1/2018		\$47.22	\$33.00	\$80.22
Glazier	9/1/2021		\$24.55	\$23.05	\$47.60
Iron Workers	6/1/2022		\$31.79	\$32.31	\$64.10
Laborers (Class 01 - See notes)	1/1/2021		\$20.73	\$18.28	\$39.01
Laborers (Class 01 - See notes)	1/1/2022		\$21.73	\$18.53	\$40.26
Laborers (Class 02 - See notes)	1/1/2021		\$20.98	\$18.28	\$39.26
Laborers (Class 02 - See notes)	1/1/2022		\$21.98	\$18.53	\$40.51
Laborers (Class 03 - See notes)	1/1/2021		\$21.53	\$18.28	\$39.81
Laborers (Class 03 - See notes)	1/1/2022		\$22.53	\$18.53	\$41.06
Landscape Laborer	1/1/2018		\$17.60	\$16.48	\$34.08
Millwright	6/1/2020		\$41.68	\$20.32	\$62.00
Operators (Class 01 - see notes)	7/1/2021		\$32.47	\$20.32	\$52.79
Operators (Class 01 - see notes)	7/1/2022		\$34.17	\$20.62	\$54.79
Operators (Class 01 - see notes)	7/1/2023		\$35.87	\$20.92	\$56.79
Operators (Class 01 - see notes)	7/1/2024		\$36.87	\$21.42	\$58.29
Operators (Class 02 -see notes)	7/1/2021		\$27.85	\$20.32	\$48.17
Operators (Class 02 -see notes)	7/1/2022		\$29.55	\$20.62	\$50.17
Operators (Class 02 -see notes)	7/1/2023		\$31.25	\$20.92	\$52.17
Operators (Class 02 -see notes)	7/1/2024		\$32.87	\$21.42	\$54.29
Operators (Class 03 - See notes)	7/1/2021		\$26.30	\$20.32	\$46.62
Operators (Class 03 - See notes)	7/1/2022		\$27.00	\$20.62	\$47.62
Operators (Class 03 - See notes)	7/1/2023		\$28.70	\$20.92	\$49.62
Operators (Class 03 - See notes)	7/1/2024		\$29.70	\$21.42	\$51.12
Operators (Class 04 - Chief of Party (Surveying and Layout))	7/1/2016		\$23.65	\$16.77	\$40.42
Operators (Class 04 - Chief of Party (Surveying and Layout))	7/1/2022		\$26.60	\$20.62	\$47.22
Operators (Class 04 - Chief of Party (Surveying and Layout))	7/1/2023		\$28.30	\$20.92	\$49.22

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 22-09248 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Operators (Class 04 - Chief of Party (Surveying and Layout))	7/1/2024		\$29.30	\$21.42	\$50.72
Operators (Class 04 - Instrument Person (Surveying & Layout))	7/1/2016		\$22.65	\$16.77	\$39.42
Operators (Class 04 - Instrument Person (Surveying & Layout))	7/1/2022		\$25.60	\$20.62	\$46.22
Operators (Class 04 - Instrument Person (Surveying & Layout))	7/1/2023		\$27.30	\$20.92	\$48.22
Operators (Class 04 - Instrument Person (Surveying & Layout))	7/1/2024		\$28.30	\$21.42	\$49.72
Operators (Class 04 - Rodman/Chainman (Surveying and Layout))	7/1/2016		\$22.20	\$16.77	\$38.97
Operators (Class 04 - Rodman/Chainman (Surveying and Layout))	7/1/2022		\$25.15	\$20.62	\$45.77
Operators (Class 04 - Rodman/Chainman (Surveying and Layout))	7/1/2023		\$26.85	\$20.92	\$47.77
Operators (Class 04 - Rodman/Chainman (Surveying and Layout))	7/1/2024		\$27.85	\$21.42	\$49.27
Painters (Bridges, Stacks, Towers)	5/1/2020		\$25.87	\$19.95	\$45.82
Painters (Brush and Roller)(Commercial)	5/1/2020		\$23.37	\$19.95	\$43.32
Painters (Spray and Sandblasting)(Commercial)	5/1/2020		\$24.12	\$19.95	\$44.07
Painters (Spray and Sandblasting)(Industrial)	5/1/2020		\$24.62	\$19.95	\$44.57
Painters Class 2 (see notes)	6/1/2021		\$25.76	\$21.21	\$46.97
Painters Class 2 (see notes)	6/1/2022		\$26.11	\$22.14	\$48.25
Painters Class 6 (see notes)	5/1/2020		\$23.62	\$19.95	\$43.57
Pile Driver Divers (Building, Heavy, Highway)	1/1/2021		\$54.75	\$20.10	\$74.85
Pile Driver Divers (Building, Heavy, Highway)	1/1/2022		\$56.40	\$20.50	\$76.90
Piledrivers	1/1/2021		\$36.50	\$20.10	\$56.60
Piledrivers	1/1/2022		\$37.60	\$20.50	\$58.10
Plasterers	6/1/2021		\$30.69	\$19.09	\$49.78
Plasterers	6/1/2022		\$31.44	\$19.74	\$51.18
plumber	6/1/2021		\$45.58	\$21.77	\$67.35
plumber	6/1/2022		\$44.63	\$25.22	\$69.85
Pointers, Caulkers, Cleaners	6/1/2021		\$33.70	\$20.22	\$53.92
Pointers, Caulkers, Cleaners	6/1/2022		\$35.00	\$20.53	\$55.53
Pointers, Caulkers, Cleaners	12/1/2022		\$35.47	\$20.88	\$56.35
Roofers	5/1/2021		\$31.20	\$16.66	\$47.86
Roofers	5/1/2022		\$32.03	\$17.18	\$49.21
Roofers	5/1/2023		\$33.48	\$17.18	\$50.66
Roofers	5/1/2024		\$35.03	\$17.18	\$52.21
Sheet Metal Workers	7/1/2021		\$38.76	\$30.00	\$68.76
Sign Makers and Hangars	7/17/2021		\$29.49	\$23.90	\$53.39
Sign Makers and Hangars	7/15/2022		\$30.54	\$24.35	\$54.89
Sprinklerfitters	4/1/2021		\$40.33	\$26.94	\$67.27
Sprinklerfitters	4/1/2022		\$42.29	\$27.48	\$69.77
Steamfitters	6/1/2021		\$42.75	\$26.72	\$69.47
Steamfitters	6/1/2022		\$42.15	\$27.32	\$69.47

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 22-09248 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Stone Masons	6/1/2021		\$36.37	\$22.85	\$59.22
Stone Masons	6/1/2022		\$37.91	\$23.26	\$61.17
Stone Masons	12/1/2022		\$38.56	\$23.61	\$62.17
Terrazzo Finisher	6/1/2021		\$34.00	\$17.46	\$51.46
Terrazzo Finisher	6/1/2022		\$35.33	\$17.68	\$53.01
Terrazzo Finisher	12/1/2022		\$36.13	\$18.03	\$54.16
Terrazzo Mechanics	6/1/2021		\$33.30	\$19.71	\$53.01
Terrazzo Mechanics	6/1/2022		\$34.69	\$19.97	\$54.66
Terrazzo Mechanics	12/1/2022		\$35.49	\$20.32	\$55.81
Tile Finisher	6/1/2021		\$27.19	\$16.71	\$43.90
Tile Finisher	6/1/2022		\$28.35	\$16.99	\$45.34
Tile Finisher	12/1/2022		\$28.76	\$17.34	\$46.10
Tile Setter	6/1/2021		\$33.58	\$21.12	\$54.70
Tile Setter	6/1/2022		\$35.04	\$21.46	\$56.50
Tile Setter	12/1/2022		\$35.64	\$21.81	\$57.45
Truckdriver class 1(see notes)	1/1/2021		\$30.68	\$20.96	\$51.64
Truckdriver class 1(see notes)	1/1/2022		\$31.43	\$21.71	\$53.14
Truckdriver class 2 (see notes)	1/1/2021		\$31.14	\$21.27	\$52.41
Truckdriver class 2 (see notes)	1/1/2022		\$31.89	\$22.02	\$53.91
Truckdriver class 3 (see notes)	1/1/2016		\$28.23	\$16.98	\$45.21
Window Film / Tint Installer	10/1/2019		\$25.00	\$2.63	\$27.63

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 22-09248 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Carpenter	1/1/2021		\$35.87	\$19.32	\$55.19
Carpenter	1/1/2022		\$36.85	\$19.84	\$56.69
Carpenter Welder	1/1/2021		\$36.82	\$19.32	\$56.14
Carpenter Welder	1/1/2022		\$37.80	\$19.84	\$57.64
Cement Finishers	1/1/2021		\$32.84	\$22.60	\$55.44
Cement Finishers	1/1/2022		\$33.14	\$23.80	\$56.94
Cement Masons	1/1/2020		\$32.84	\$21.10	\$53.94
Electric Lineman	1/1/2018		\$55.43	\$22.48	\$77.91
Electric Lineman	8/29/2022		\$62.66	\$28.08	\$90.74
Iron Workers (Bridge, Structural, Ornamental, Precast)	6/1/2020		\$31.11	\$30.91	\$62.02
Laborers (Class 01 - See notes)	1/6/2021		\$26.90	\$24.80	\$51.70
Laborers (Class 01 - See notes)	1/6/2022		\$27.70	\$25.50	\$53.20
Laborers (Class 02 - See notes)	1/6/2021		\$27.06	\$24.80	\$51.86
Laborers (Class 02 - See notes)	1/6/2022		\$27.86	\$25.50	\$53.36
Laborers (Class 03 - See notes)	1/6/2021		\$27.45	\$24.80	\$52.25
Laborers (Class 03 - See notes)	1/6/2022		\$28.25	\$25.50	\$53.75
Laborers (Class 04 - See notes)	1/6/2021		\$27.90	\$24.80	\$52.70
Laborers (Class 04 - See notes)	1/6/2022		\$28.70	\$25.50	\$54.20
Laborers (Class 05 - See notes)	1/6/2021		\$28.31	\$24.80	\$53.11
Laborers (Class 05 - See notes)	1/6/2022		\$29.11	\$25.50	\$54.61
Laborers (Class 06 - See notes)	1/6/2021		\$25.15	\$24.80	\$49.95
Laborers (Class 06 - See notes)	1/6/2022		\$25.95	\$25.50	\$51.45
Laborers (Class 07 - See notes)	1/6/2021		\$27.90	\$24.80	\$52.70
Laborers (Class 07 - See notes)	1/6/2022		\$28.70	\$25.50	\$54.20
Laborers (Class 08 - See notes)	1/6/2021		\$29.40	\$24.80	\$54.20
Laborers (Class 08 - See notes)	1/6/2022		\$30.20	\$25.50	\$55.70
Millwright	6/1/2020		\$41.68	\$20.32	\$62.00
Operators (Class 01 - see notes)	1/1/2021		\$33.89	\$22.73	\$56.62
Operators (Class 01 - see notes)	1/1/2022		\$34.79	\$23.33	\$58.12
Operators (Class 02 -see notes)	1/1/2021		\$33.63	\$22.73	\$56.36
Operators (Class 02 -see notes)	1/1/2022		\$34.53	\$23.33	\$57.86
Operators (Class 03 - see notes)	1/1/2021		\$29.98	\$22.73	\$52.71
Operators (Class 03 - See notes)	1/1/2022		\$30.88	\$23.33	\$54.21
Operators (Class 04 - See notes)	1/1/2021		\$29.52	\$22.73	\$52.25
Operators (Class 04 - See notes)	1/1/2022		\$30.42	\$23.33	\$53.75
Operators (Class 05 - See notes)	1/1/2021		\$29.27	\$22.73	\$52.00
Operators (Class 05 - See notes)	1/1/2022		\$30.17	\$23.33	\$53.50
Operators Class 1-A	1/1/2021		\$36.89	\$22.73	\$59.62
Operators Class 1-A	1/1/2022		\$37.79	\$23.33	\$61.12
Operators Class 1-B	1/1/2021		\$35.89	\$22.73	\$58.62
Operators Class 1-B	1/1/2022		\$36.79	\$23.33	\$60.12
Painters Class 1 (see notes)	6/1/2021		\$29.61	\$21.21	\$50.82
Painters Class 1 (see notes)	6/1/2022		\$30.06	\$22.14	\$52.20
Painters (Bridges, Stacks, Towers)	5/1/2020		\$25.87	\$19.95	\$45.82

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 22-09248 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Painters (Brush and Roller)(Industrial)	5/1/2020		\$23.87	\$19.95	\$43.82
Painters (Spray and Sandblasting)(Industrial)	5/1/2020		\$24.62	\$19.95	\$44.57
Pile Driver Divers (Building, Heavy, Highway)	1/1/2021		\$54.75	\$20.10	\$74.85
Pile Driver Divers (Building, Heavy, Highway)	1/1/2022		\$56.40	\$20.50	\$76.90
Piledrivers	1/1/2021		\$36.54	\$20.06	\$56.60
Piledrivers	1/1/2022		\$37.63	\$20.47	\$58.10
Steamfitters (Heavy and Highway - Gas Distribution)	5/1/2022		\$48.43	\$40.28	\$88.71
Truckdriver class 1(see notes)	1/1/2021		\$30.68	\$20.96	\$51.64
Truckdriver class 1(see notes)	1/1/2022		\$31.43	\$21.71	\$53.14
Truckdriver class 2 (see notes)	1/1/2021		\$31.14	\$21.27	\$52.41
Truckdriver class 2 (see notes)	1/1/2022		\$31.89	\$22.02	\$53.91
Truckdriver class 3 (see notes)	1/1/2019		\$29.59	\$19.82	\$49.41

RECIPROCAL LIMITATIONS ACT REQUIREMENTS

Please Complete Applicable Portion of Pages 3 & 4 and Return with Bid.

NOTE: These Requirements Do Not Apply To Bids Under \$10,000.00

I. REQUIREMENTS

- A. The Reciprocal Limitations Act requires the Commonwealth to give preference to those bidders offering supplies produced, manufactured, mined or grown in Pennsylvania as against those bidders offering supplies produced, manufactured, mined or grown in any state that gives or requires a preference to supplies produced, manufactured, mined or grown in that state. The amount of the preference shall be equal to the amount of the preference applied by the other state for that particular supply.

The following is a list of states which have been found by the Department of General Services to have applied a preference for in-state supplies and the amount of the preference:

STATE	PREFERENCE
1. Alaska	7% (applies only to timber, lumber, and manufactured lumber products originating in the state)
2. Arizona	5% (construction materials produced or manufactured in the state only)
3. Hawaii	10%
4. Illinois	10% for coal only
5. Iowa	5% for coal only
6. Louisiana	4% meat and meat products 4% catfish 10% milk & dairy products 10% steel rolled in Louisiana 7% all other products
7. Montana	5% for residents * 3% for non-residents* *offering in-state goods, supplies, equipment and materials
8. New Mexico	5%
9. New York	3% for purchase of food only
10. Oklahoma	5%
11. Virginia	4% for coal only
12. Washington	5% (fuels mined or produced in the state only)
13. Wyoming	5%

- B. The Reciprocal Limitations Act requires the Commonwealth to give preference to those bidders offering printing performed in Pennsylvania as against those bidders offering printing performed in any state that gives or requires a preference to printing performed in that state. The amount of the preference shall be equal to the amount of the preference applied by the other state for that particular category of printing.

The following is a list of states which have been found by the Department of General Services to have applied a preference for in-state printing and the amount of the preference:

STATE	PREFERENCE
1. Hawaii	15%
2. Idaho	10%
3. Louisiana	3%
4. Montana	8%
5. New Mexico	5%
6. Wyoming	10%

- C. The Reciprocal Limitations Act, also requires the Commonwealth to give resident bidders a preference against a nonresident bidder from any state that gives or requires a preference to bidders from that state or exclude bidders from states that exclude nonresident bidders. The amount of the preference shall be equal to the amount of the preference applied by the state of the nonresident bidder. The following is a list of the states which have been found by the Department of General Services to have applied a preference for in-state bidders and the amount of the preference:

	STATE	PREFERENCE
1.	Alaska	5% (supplies only)
2.	Arizona	5% (construction materials from Arizona resident dealers only)
3.	California	5% (for supply contracts only in excess of \$100,000.00)
4.	Connecticut	10% (for supplies only)
5.	Montana	3%
6.	New Mexico	5% (for supplies only)
7.	South Carolina	2% (under \$2,500,000.00) 1% (over \$2,500,000.00)
		This preference does not apply to construction contracts nor where the price of a single unit exceeds \$10,000.
8.	West Virginia	2.5% (for the construction, repair or improvement of any buildings)
9.	Wyoming	5%

	STATE	PROHIBITION
1.	New Jersey	For supply procurements or construction projects restricted to Department of General Services Certified Small Businesses, New Jersey bidders shall be excluded from award even if they themselves are Department of General Services Certified Small Businesses.

- D. The Reciprocal Limitations Act also requires the Commonwealth not to specify, use or purchase supplies which are produced, manufactured, mined or grown in any state that prohibits the specification for, use, or purchase of such items in or on its public buildings or other works, when such items are not produced, manufactured, mined or grown in such state. The following is a list of the states which have been found by the Department of General Services to have prohibited the use of out-of-state supplies:

	STATE	PROHIBITION
1.	Alabama	Only for printing and binding involving "messages of the Governor to the Legislature", all bills, documents and reports ordered by and for the use of the Legislature or either house thereof while in session; all blanks, circulars, notices and forms used in the office of or ordered by the Governor, or by any state official, board, commission, bureau or department, or by the clerks of the supreme court . . . /and other appellate courts/; and all blanks and forms ordered by and for the use of the Senate and Clerk or the House of Representatives, and binding the original records and opinions of the Supreme Court . . . /and other appellate courts/
2.	Georgia	Forest products only
3.	Indiana	Coal
4.	Michigan	Printing
5.	New Mexico	Construction
6.	Ohio	Only for House and Senate bills, general and local laws, and joint resolutions; the journals and bulletins of the Senate and house of Representatives and reports, communications, and other documents which form part of the journals; reports, communications, and other documents ordered by the General Assembly, or either House, or by the executive department or elective state officers; blanks, circulars, and other work for the use of the executive departments, and elective state officers; and opinions of the Attorney General.
7.	Rhode Island	Only for food for state institutions.

*If the bid discloses that the bidder is offering to supply one of the above-listed products that is manufactured, mined, or grown in the listed state, it shall be rejected. Contractors are prohibited from supplying these items from these states.

II. CALCULATION OF PREFERENCE

In calculating the preference, the amount of a bid submitted by a Pennsylvania bidder shall be reduced by the percentage preference which would be given to a nonresident bidder by its state of residency (as found by the Department of General Services in Paragraph C above). Similarly, the amount of a bid offering Pennsylvania goods, supplies, equipment or materials shall be reduced by the percentage preference which would be given to another bidder by the state where the goods, supplies, equipment or materials are produced, manufactured, mined or grown (as found by the Department of General Services in Paragraphs A and B above).

THIS FORM MUST BE COMPLETED AND RETURNED WITH THE BID

III. STATE OF MANUFACTURE

All bidders must complete the following chart by listing the name of the manufacturer and the state (or foreign country) of manufacture for each item. If the item is domestically produced, the bidder must indicate the state in the United States where the item will be manufactured. **This chart must be completed and submitted with the bid or no later than two (2) business days after notification from the Issuing Office to furnish the information. Failure to complete this chart and provide the required information prior to the expiration of the second business day after notification shall result in the rejection of the bid.**

ITEM NUMBER	NAME OF MANUFACTURER	STATE (OR FOREIGN COUNTRY) OF MANUFACTURE

IV. BIDDER'S RESIDENCY

- A. In determining whether the bidder is a nonresident bidder from a state that gives or requires a preference to bidders from that state, the address given on the first page of this invitation to bid shall be used by the Commonwealth. If that address is incorrect, or if no address is given, the correct address should be provided in the space below:

Correct Address: _____

- B.** In order to claim the preference provided under Section I.B., Pennsylvania resident bidders must complete the following or have such information on file with the Issuing Office:
- 1.** Address of bidder's bona fide establishment in Pennsylvania at which it was transacting business on the date when bids for this contract/requisition were first solicited: _____
 - 2. a.** If the bidder is a corporation:
 - (1)** The corporation is or is not incorporated under the laws of the Commonwealth of Pennsylvania.
 - (a)** If the bidder is incorporated under the laws of the Commonwealth of Pennsylvania, provide date of incorporation: _____
 - (b)** If the bidder is not incorporated under the laws of the Commonwealth of Pennsylvania, it must have a certificate of authority to do business in the Commonwealth of Pennsylvania from the Pennsylvania Department of State as required by the Pennsylvania Business Corporation Law (15 P.S. §2001). Provide date of issuance of certificate of authority: _____
 - (2)** The corporation is or is not conducting business in Pennsylvania under an assumed or fictitious name. If the bidder is conducting business under an assumed or fictitious name, it must register the fictitious name with the Secretary of the Commonwealth and the office of the prothonotary of the county wherein the registered office of such corporation is located as required by the Fictitious Corporate Name Act, as amended 15 P.S. §51 et seq. Corporate bidders conducting business under an assumed or fictitious name must provide date of registry of the assumed or fictitious name: _____
 - b.** If the bidder is a partnership:
 - (1)** The partnership is or is not conducting business in Pennsylvania under an assumed or fictitious name. If the bidder is conducting business under an assumed or fictitious name, it must file with the Secretary of the Commonwealth and the office of the prothonotary the county wherein the principal place of business is located as required by the Fictitious Name Act of May 24, 1945, P.L. 967, as amended 54 P.S. §28.1. Partnerships conducting business under an assumed or fictitious name must provide the date of filing of the assumed or fictitious name with the Secretary of the Commonwealth: _____
 - (2)** The partnership is or is not a limited partnership formed under the laws of any jurisdiction other than the Commonwealth of Pennsylvania. If the bidder is an Out-of-state limited partnership, it must register with the Pennsylvania Department of State as required by the Act of July 10, 1981, P.L. 237, as amended, 59 Pa. C.S.A. §503. Out-of-state limited partnerships must provide the date of registry with the Pennsylvania Department of State: _____
 - c.** If the bidder is an individual:

He or she is or is not conducting business under an assumed or fictitious name. If the bidder is conducting business under an assumed or fictitious name, he or she must file with the Secretary of the Commonwealth and the office of the prothonotary in the county wherein the principal place of business is located as required by the Fictitious Name Act of May 24, 1945, P.L. 967, as amended, 54 P.S. §28.1. Individuals conducting business under an assumed or fictitious name must provide the date of filing of the assumed or fictitious name with the Secretary of the Commonwealth: _____



WORKER PROTECTION AND INVESTMENT CERTIFICATION FORM

A. Pursuant to Executive Order 2021-06, *Worker Protection and Investment* (October 21, 2021), the Commonwealth is responsible for ensuring that every worker in Pennsylvania has a safe and healthy work environment and the protections afforded them through labor laws. To that end, contractors and grantees of the Commonwealth must certify that they are in compliance with Pennsylvania's Unemployment Compensation Law, Workers' Compensation Law, and all applicable Pennsylvania state labor and workforce safety laws including, but not limited to:

1. Construction Workplace Misclassification Act
2. Employment of Minors Child Labor Act
3. Minimum Wage Act
4. Prevailing Wage Act
5. Equal Pay Law
6. Employer to Pay Employment Medical Examination Fee Act
7. Seasonal Farm Labor Act
8. Wage Payment and Collection Law
9. Industrial Homework Law
10. Construction Industry Employee Verification Act
11. Act 102: Prohibition on Excessive Overtime in Healthcare
12. Apprenticeship and Training Act
13. Inspection of Employment Records Law

B. Pennsylvania law establishes penalties for providing false certifications, including contract termination; and three-year ineligibility to bid on contracts under 62 Pa. C.S. § 531 (Debarment or suspension).

CERTIFICATION

I, the official named below, certify I am duly authorized to execute this certification on behalf of the contractor/grantee identified below, and certify that the contractor/grantee identified below is compliant with applicable Pennsylvania state labor and workplace safety laws, including, but not limited to, those listed in Paragraph A, above. I understand that I must report any change in the contractor/grantee's compliance status to the Purchasing Agency immediately. I further confirm and understand that this Certification is subject to the provisions and penalties of 18 Pa. C.S. § 4904 (Unsworn falsification to authorities).

<i>Signature</i>	<i>Date</i>
<i>Name (Printed)</i>	
<i>Title of Certifying Official (Printed)</i>	
<i>Contractor/Grantee Name (Printed)</i>	

TECHNICAL SPECIFICATIONS

The following stipulations, specifications and description of Work are defined and described as Technical Specifications and it is understood and agreed that everything herein contained is hereby made part of the Contract. Wherever any feature of the Work is not fully set forth in these Technical Specifications and is necessary for the completion of Work, it shall be understood that the same is governed by the rules of the best prevailing practice for that class of Work, as determined by the Pennsylvania Game Commission and its representatives.

These Technical Specifications and any drawings, maps and/or plans forming a part thereof, will cover the furnishing of all labor, equipment, tools, materials, and related items necessary to perform the Work, as required under this Contract.

- Section 1 – Summary of Work
- Section 2 – E&S Control
- Section 3 – Clearing
- Section 4 – Drainage Work
- Section 5 – Remove Existing Pipes
- Section 6 – Plastic Pipe
- Section 7 – Pipe Bedding and Backfill
- Section 8 – Precast Concrete Headwalls
- Section 9 – Riprap Splash Pads
- Section 10 – French Mattress
- Section 11 – Road Surface Preparation
- Section 12 – Road Construction
- Section 13 – Seeding

DRAWINGS

The following drawings are included:

- 1 of 3 - Location Map, Site Map, Road Prep Section and Notes
- 2 of 3 – Road Sections and Details
- 3 of 3 – Drainage Pipe Details

TECHNICAL SPECIFICATION SECTION 1 - SUMMARY OF WORK

1.1 – SCOPE OF PROJECT

This project involves the maintenance of 7,598-foot long section on Stage Coach Road on State Game Lands (SGL) #61. The project includes grading, pipe installation, road base construction, stone surfacing and related work.

1.2 – WORK AREA

SGL #61 is located in southeastern McKean County. The project site is located approximately 2-miles west of Port Allegany in Liberty Township.

The site is owned by the Pennsylvania Game Commission (PGC).

1.3 – WORK HOURS

The work hours at the project site are during regular PGC business hours which are Monday through Friday, 7:45AM to 4:00PM. Work during different hours must have prior written approval by the PGC. Requests for different working hours must be submitted in writing three days in advance.

This project is on state game lands; work is prohibited the following days.

- a. All Saturdays in the months of October, November and December
- b. All the days of the statewide bear season
- c. The entire two weeks of the general firearms deer season
- d. The opening day of the flintlock muzzleloader season
- e. The opening day and all Saturdays during Spring turkey season including youth Spring gobbler

1.4 – ACCESS TO WORK AREA

Access to the project site and staging of equipment and materials shall be coordinated with the PGC. The Contractor shall keep access roads leading to the project site open for use by the PGC and the public. The Contractor is required to repair any ruts or other damage to the access roads and parking areas caused by construction equipment.

The work area is on an existing PGC road. The work area can be accessed from an existing stone surface road on the north end.

1.5 – CONTROL OF WORK AREA

Coordinate with PGC staff for access and control of work areas. Provide barricades, signs and other devices as needed to prevent unauthorized access to work areas until construction activities are completed and parking areas are opened for public use.

Do not block public roads at any time during construction. If necessary, provide temporary Maintenance and Control of Traffic in accordance with PennDOT Pub. 213 Temporary Traffic Control Guidelines and related PennDOT references.

1.6 – PERMITS, LAWS AND REGULATIONS

The Contractor shall procure and pay for all permits, licenses, inspections, conveniences, or other approvals necessary for the execution of the contract. The PGC is not aware of any permits required for this project.

The Contractor shall comply with all laws, ordinances, rules, orders and regulations relating to the performance of the work, the protection of adjacent property, the maintaining of surface passageways, guard fences, and/or other protective facilities.

All applicable Federal and State laws and regulations, municipal ordinances and rules and regulations of all authorities, having jurisdiction over construction of the project shall apply to the contract throughout, and they shall be deemed to be included in the contract as a part, thereof, the same as though herein written out in full.

All regulations of the Occupational Safety and Health Act are in effect on this contract. It will be the Contractor's responsibility to make himself aware of all appropriate County, State and Federal regulations that apply to this contract.

Any violations incurred from improper execution of the above provisions shall be paid for by the Contractor. Loss of time on the project from such violations will not be tolerated.

1.7 – ROAD PERMITS AND BONDING

The Contractor shall coordinate, acquire, pay for, and maintain for the duration of the project any and all permits or bonds required by local municipalities and/or PennDOT to utilize public roads and infrastructure for heavy hauling and related construction activities. Responsibilities shall include any pre or post construction inspections and related reports if required. All costs related to permitting and bonding public roadways and infrastructure shall be included with and incidental to the Bid submitted by the Contractor and will not be paid for separately.

1.8 – PROJECT LAYOUT

The project has a stationed layout listed in Section 12 of the Technical Specifications. Features of the road design can be located using stations of existing features. The PGC may also provide some stakes with station markings to further assist in project layout.

The PGC will have a representative at the work site for some days during construction. This representative will serve as a construction inspector checking the work including confirming the contractor's layout of project features.

**TECHNICAL SPECIFICATION SECTION 2 - EROSION AND
SEDIMENTATION CONTROL**

2.1 -SCOPE

This work is implementing the erosion and sedimentation control measures during project construction. Compliance with Chapter 102 of the Department of Environmental Protection's regulations is also required.

2.2 - PROCEDURE

Implement the measures listed below to alleviate excessive erosion and sedimentation caused by construction methods or equipment.

Failure to implement soil erosion and sediment pollution control measures may result in a cease and desist order, causing shutdown of the work. No extension of time, nor additional compensation will be granted if such a shutdown should occur as a result of act or neglect of the Contractor.

Installation of new culverts must be accomplished under "no-flow" conditions. Installation of pipes must be accomplished the same day and the new culverts must be completely installed with the proper headwalls to prevent erosion.

Immediately upon completion of any segment of the project, seed that segment in accordance with Technical Specification Section 13. The Contractor may, with the approval of the Game Commission, perform temporary seeding operations in order to maintain finished graded areas until the optimum time for performing permanent seeding.

Periodically remove accumulated sediments from control measures and dispose of in suitable work areas.

2.3 - MEASUREMENT AND PAYMENT

None, costs are incidental to the other work performed.

TECHNICAL SPECIFICATION SECTION 3 – CLEARING

3.1 -SCOPE

This work is minor trimming of overhanging limbs and branches along the road alignment.

3.2 - PROCEDURE

Trim limbs and branches that overhang the roadway and would interfere with the safe passage of construction vehicles. Trim limbs, branches and brush that would interfere with work at drainage pipes and at the curve on to Sherwood Road. Stockpile the trimmed limbs and branches in an on-site area and in a manner designated and approved by the PGC. Burning is not permitted.

3.3 - MEASUREMENT AND PAYMENT

Lump Sum.

TECHNICAL SPECIFICATION SECTION 4 – DRAINAGE WORK

4.1 -SCOPE

This work is opening existing drainage ditches and turnouts along the road.

4.2 - PROCEDURE

Trim branches and other vegetation that would interfere with the work. Open existing drainage ditches and turnouts by removing accumulated material, leaves and debris. Reshape and regrade ditches and turnouts along the road to ensure that positive flow conditions are achieved through to existing turnouts and new pipes. Stabilize disturbed earth areas in the existing drainage turnouts according to Section 13 of the Technical Specifications.

4.3 - MEASUREMENT AND PAYMENT

Lump Sum.

TECHNICAL SPECIFICATION SECTION NO. 5 – REMOVE EXISTING PIPES

5.1 - SCOPE

This work is removing and disposing of the existing drainage pipes under the road.

5.2 - PROCEDURE

The Contractor must contact PA 1 Call (Dial 811) before excavation for pipe removal operations begin.

It is required that the pipe removal operations be conducted when there is no water flowing in the drainage channels. Excavate around the existing pipes so that they can be safely removed. Limit the excavation to only what is necessary for pipe removal and for installation of the new drainage pipes. Backfill of excavation beyond the 12-inch limits for the new pipe foundation bedding will not be measured or paid for.

Remove the existing pipes in one complete piece or cut into sections. Transport the old pipe sections off the site; there will be no disposal of removed pipe on state game lands. The removed pipe is to be considered property of the Contractor; you are encouraged to reuse good sections of pipe on other projects or recycle the materials.

Material excavated for pipe removal is not to be used for backfill of the new pipes. Excess material is to be graded into the road-sides to improve the shoulders of the road or used as road base material.

5.3 - MEASUREMENT AND PAYMENT

Each; regardless of size, type and length of pipe. No separate measurement or payment for excavation.

TECHNICAL SPECIFICATION SECTION 6 – PLASTIC PIPE

6.1 -SCOPE

This work is furnishing and installing drainage pipes under the roadway. Refer to project layout in Section 12.2 of the Technical Specifications for the pipe locations.

6.2 – MATERIALS

The plastic pipe shall be 15-inch diameter corrugated polyethylene with smooth interior conforming to AASHTO M 294, Type S.

6.3 - PROCEDURE

Clear any rocks or vegetation from the area that would interfere with installation of the new pipes. Excavate a trench according to the dimensions shown on the Drawings.

Prepare the bedding area for the pipe and install so that a positive drainage slope in the pipe is obtained. Under the new roadway, backfill the entire trench with 2RC select granular material as shown on the Drawings. On road shoulders, backfill over the pipe with excavated material. Do not allow stones greater than 3-inches to come in contact with the pipe. Do not allow equipment to cross over the pipe until at least one foot of cover is obtained over the top of the pipe. All pipes must have a minimum 12-inches of cover.

Install precast concrete headwalls on both ends of the pipes. Refer to Section 7 of these Technical Specifications and the drawings for construction of the headwalls. Perform minor grading operations on both ends of the new pipes so that proper flow patterns are established.

Perform additional grading operations in drainage channels leading to the drainage pipes. Remove any blockages from the drainage channels to ensure that storm drainage flows to the inlets of the drainage pipes.

6.4 - MEASUREMENT AND PAYMENT

Linear feet. No separate measurement or payment for coupling or joining pipe sections. No separate measurement or payment for excavation and grading operations associated with pipe installation. No separate measurement or payment for grading operations in the drainage channels.

TECHNICAL SPECIFICATION SECTION NO. 7 – PIPE BEDDING & BACKFILL

7.1 - SCOPE

This work is constructing a foundation bed and backfilling the drainage pipes as shown on the Drawings.

7.2 - APPLICABLE PUBLICATIONS

AASHTO T 27 - Standard Method of Test for Sieve Analysis of Fine and Coarse Aggregates.

Pub. 408 - Specifications,
Pennsylvania Department of Transportation.

Bulletin 14 - Aggregate Producers,
Pennsylvania Department of Transportation.

7.3 - MATERIALS

Aggregate used for constructing the foundation bed and backfilling drainage pipes shall be 2RC select granular material, as specified in Section 703.3 of Pub. 408.

Obtain aggregates from a source listed in Bulletin 14.

7.4 - PROCEDURE

Excavate the trenches to the dimensions shown on the drawings for installation of the new pipe culverts. Place stone in the dry, and not on frozen ground for foundation bedding of the new drainage pipes.

Place the stone in layers and shape the stone to conform to the pipe shape. Place the pipe and compact around the pipe to remove any voids in the stone. Compaction of the stone shall be considered satisfactory on the basis of non-movement of the materials under compaction equipment. Compact the stone to provide a firm base for road surfacing operations.

7.5 - MEASUREMENT AND PAYMENT

Cubic yards, measured by the three-dimensional volume method.

Aggregate used for replacing caved-in-material, and material excavated beyond the established payment lines will not be measured and paid for.

TECHNICAL SPECIFICATION SECTION NO. 8 – PRECAST CONCRETE HEADWALLS

8.1 - SCOPE

This work is installing precast concrete headwalls for the new drainage pipes and existing drainage pipes designated to remain as shown on the Drawings.

8.2 - MATERIALS

The precast concrete headwalls shall be single piece units with the following characteristics;

1. Concrete – 4,000 psi at 28 days with 5.5% air entrainment.
2. Reinforcement – ASTM 615, grade 60 with minimum cover of 1-1/2 inches.
3. All exposed edges are chamfered at 1-inch.
4. Materials and construction to comply with the applicable portions PennDOT Publication 408.
5. Layout and dimensions to be comparable to the attached drawings with minimum 12-inch thick walls with an integral footer.

8.3 - PROCEDURE

Excavate the trench for the new drainage pipe at the proper location. Prepare the subgrade for the headwalls on both ends of the excavated trench. Place the precast concrete headwalls on the subgrade. The PGC recommend placing a small amount of #2A coarse aggregate on the subgrade so that the headwalls can be placed level and stable. Make sure that the headwalls are placed at the proper elevations so that a minimum slope of 3-inch per 10-feet is achieved in the drainage pipes.

The corrugations on the ends of the pipes can be removed to obtain proper fit inside the precast concrete headwalls. Insert the drainage pipes in the headwalls. Complete the backfill of the drainage pipes to lock them in place. Grout any voids around the pipes. Use a non-shrink grout with a minimum compressive strength of 4,000 psi.

8.4 - MEASUREMENT AND PAYMENT

Each, according to size.

TECHNICAL SPECIFICATION SECTION NO. 9 – RIPRAP SPLASH PADS

9.1 - SCOPE

This work is installing riprap splash pads at the outlets of the new drainage pipes and existing drainage pipes designated to remain.

9.2 – MATERIALS

A. R-4 Riprap – Rock for R-4 riprap shall be durable quality stone conforming to the requirements of Section 850.2a of PennDOT Pub. 408. Obtain the riprap from a source listed in PennDOT Bulletin 14.

B. Geotextile – The geotextile shall be Class2, Type A geotextile conforming to the requirements of Section 735 of PennDOT Pub. 408. Obtain the geotextile from a source listed in PennDOT Bulletin 15.

9.3 - PROCEDURE

Conduct riprap placement operations in the dry. Install the drainage pipes and precast concrete headwalls before placing riprap. Excavate, shape and grade the area to assist with proper placement of the geotextile and riprap if necessary. Place the geotextile across the bottom and up the sides of the prepared area. Secure the geotextile if necessary. Place riprap on top of the geotextile carefully so that the fabric is not punctured. Rearrange the individual stones so that the thickness of the placement is 12-inches. Check voids in the riprap with smaller stones.

9.4 - MEASUREMENT AND PAYMENT

Square yards, measured by the two-dimensional area method. No separate measurement or payment for excavation or geotextile.

TECHNICAL SPECIFICATION SECTION NO. 10 – FRENCH MATTRESS

10.1 - SCOPE

This work is constructing a French mattress drainage feature along the road. The location of the French mattress drainage feature is listed in Section 12.2 of the Technical Specifications. Details of construction are shown on the Drawings.

10.2 – MATERIALS

A. AASHTO #1 Stone – The stone shall Type A quality conforming to the requirements of Section 703.2 of PennDOT Pub. 408. Obtain the AASHTO #1 stone from a source approved in PennDOT Bulletin 14.

B. Geogrid – The geogrid for reinforcement of the subgrade shall be biaxial grid fabricated from high molecular weight polyester multifilament yarns finished with a PVC coating conforming to the requirements of Section 738 of PennDOT Pub. 408. Obtain the geogrid from a manufacturer listed in PennDOT Bulletin 15. The geogrid must have the following characteristics;

Tensile Strength (at ultimate) ASTM D6637 – 2,500lbs./ft. (MD &CD)
Tensile Modulus (at 1% strain) ASTM D6637 – 37,500lbs./ft. (MD & CD)
UV Resistance (at 500 hours) ASTM D4355 – 70% strength retained
Aperture Size – 1 inch by 1.3 inches

C. Geotextile – The geotextile fabric shall be Class 2, Type A woven geotextile conforming to the requirements of Section 735 of PennDOT Pub. 408. Obtain the separation fabric from a manufacturer listed in PennDOT Bulletin 15.

D. #2A Coarse Aggregate – The stone shall conform to Section 12.3A of these Technical Specifications.

10.3 - PROCEDURE

Grade the area flat and level from side to side but not end to end. Fine grade the area to obtain the required slope and to remove any stones or obstructions which could puncture the separation fabric.

Lay the geogrid and geotextile fabric over the prepared areas. Provide at least 12-inches of overlap at seams in the fabrics. Make sure there is enough fabric to wrap the ends of the mattress and to cover the stone.

Lay the stone over the fabric to achieve the required thickness of 12-inches. Shape and smooth the top surface of the stone to provide a flat base for the road construction. Wrap the geogrid and geotextile fabric over the placed stone.

Install extra AASHTO #1 stone along both edges of the mattress as shown on the Drawings. Shape the stone to provide a triangular buttress against the edges of the installed French mattress.

Place the #2A coarse aggregate on the top layer of geogrid and geotextile. Shape the stone to form the center crown shape of the road. Compact the stone to achieve the thicknesses shown on the drawing.

10.4 - MEASUREMENT AND PAYMENT

A. AASHTO #1 Stone – Cubic yards, measured by the three-dimensional volume method. This measurement and payment shall include the extra stone used to construct the sloped edges.

B. Geogrid – Square yards measured the two-dimensional area method. This measurement does not include extra fabric at the seam overlaps but is does include the wraps at the ends.

C. Geotextile – Square yards measured the two-dimensional area method. This measurement does not include extra fabric at the seam overlaps but is does include the wraps at the ends.

**TECHNICAL SPECIFICATION SECTION NO. 11 – ROAD SURFACE
PREPARATION**

11.1- SCOPE

This work is preparing the road surface by removing vegetation and organics, scarifying, grading and compacting as shown on the Drawings. Placement of a layer of geotextile is also included in this section.

11.2 - MATERIALS

The geotextile shall be a Class 1 (stabilization and separation) woven geotextile fabric conforming to AASHTO M-288 and the following requirements;

- Weight (ASTM D-5261) – 6 oz/SY
- Grab Tensile Strength (ASTM D-4632) – 315 lbs.
- Elongation at Break (ASTM D-4632) – 15%
- Mullen Burst (ASTM D-3786) – 600 psi
- Pin Puncture (ASTM D-4833) – 120 lbs.
- CBR Puncture (ASTM D-6241) – 900 lbs.
- Trapezoidal Tear (ASTM D-4533) – 113 lbs.
- Apparent Opening Size (ASTM D-4751) – 40 US Sieve
- Permittivity (ASTM D-4491) – 0.05 Sec -1
- Water Flow Rate (ASTM D-4491) – 4g/min/f²
- UV Resistance at 500 Hours (ASTM D-4355) – 70%

11.3 - PROCEDURE

A. General – All work in this section should be coordinated to provide the designed features of the new road surface. These features include the center crown road shape, road widths, drainage improvements and other grading required to connect to existing drainage features.

The road surface preparation shall be 18-feet wide centered on the existing roadway. The short section of Sherwood Road Spur shall have a road surface preparation width of 24-feet.

B. Removing Vegetation – Remove vegetation and organics from the center and edges of the road. The depth of sod removal shall match the top surface of the wheel ruts. Transport the removed sod to the nearest cleared area along the roadway. Stockpile the material in a section of the cleared area(s) as directed by the on-site representative from the Game Commission.

C. Scarifying – After removing the sod from the center and edges of the road, scarify the surface of the existing road to a minimum depth of two inches to obtain material for grading and shaping the road.

D. Grading and Compacting – Grade and smooth the scarified material to provide an even surface for placement of the geotextile. A 120 to 150 hp motor grader with a 12' moldboard should be used for this work. Compact the scarified material with a single drum smooth roller (vibratory, 10-ton min.). One pass with the roller is sufficient.

E. Geotextile Placement – Fine grade the area to obtain the required even surface and to remove any stones or obstructions which could puncture the separation fabric.

Lay the geotextile fabric over the prepared areas. Provide at least 12-inches of overlap at seams in the fabrics. Secure the geotextile if necessary to keep it in place during road base material placement operations.

11.4 - MEASUREMENT AND PAYMENT

Square yards for Road Surface Preparation, measured by the two-dimensional area method for the length of the road sections at the specified widths.

Square yards for Geotextile (Road Base), measured by the two-dimensional area method for the length of the road sections at the specified widths.

TECHNICAL SPECIFICATION SECTION NO. 12 – ROAD CONSTRUCTION

12.1 - SCOPE

This work is constructing the new road surface on the existing alignment with a base layer of fill material and a surface layer of #2A coarse aggregate as shown on the Drawings.

12.2 – PROJECT LAYOUT

Stage Coach Road is 7,598-feet (1.44-miles) long. The east end of the project is at the edge of an existing field (Sta. 25+44). The west end of the project is at the intersection with an unnamed PGC access road (Sta. 101+42). The station locations for new drainage pipes are for the inlet end. Drainage pipes that are 30-feet and 40-feet long cross the road at an angle. Drainage pipes that are 20-feet long cross the road perpendicularly. All new pipes are 15-inch diameter corrugated plastic pipes with a smooth interior. Precast concrete headwalls are to be placed at both ends of new drainage pipes and existing drainage pipes designated to remain. Riprap splash pads are to be placed at the downstream ends of drainage pipes (new and existing to remain).

25+44 – East End of Project; east end of existing field along south edge of road. Start French Mattress drainage feature.

26+95 – West end of existing field along south edge of road. End French Mattress drainage feature. Start 12-inch base section.

36+38 – Install new 40-foot pipe.

37+99 – Remove existing pipe, install new 30-foot pipe.

47+37 – Remove existing pipe, install new 40-foot pipe.

52+53 – Remove existing pipe, install new 30-foot pipe.

57+02 – Remove existing pipe, install new 30-foot pipe.

61+15 – Remove existing pipe, install new 40-foot pipe.

66+46 – Remove existing pipe, install new 40-foot pipe.

67+74 – End 12-inch base section. Start 24-inch base section.

68+74 – Intersection with Sherwood Road.

70+00 – Start turn for Sherwood Road spur.

72+44 – End 24-inch base section. Start 12-inch base section.

72+94 – Install new 40-foot pipe.

77+27 – Remove existing pipe, install new 30-foot pipe.

77+35 – End 12-inch base section. Start 24-inch base section.

79+20 – Install new 40-foot pipe.

83+82 – Install new 40-foot pipe.

86+90 – End 24-inch base section. Start 12-inch base section.

88+05 – Log landing on south side of road.

89+00 – End 12-inch base section. Start 36-inch base section.

90+32 – Install new 40-foot pipe. Empty on north side of road with tail race into woods.

93+63 – End 36-inch base section. Start 12-inch base section.

95+75 – Existing 48-inch corrugated metal pipe to remain. Install headwalls and riprap splash pad.

97+21 – End 12-inch base section. Start 24-inch base section.

97+92 – Existing 36-inch corrugated metal pipe to remain. Install headwalls and riprap splash pad.

98+35 – Begin berm removal along south side of road. Use excavated material to fill dip in road.

99+46 – Install new 40-foot pipe.

100+50 – End berm removal along south side of road.

100+60 – Remove existing pipe, install new 30-foot pipe.

101+30 – Remove existing pipe, install new 40-foot pipe.

101+42 – West End of Project; intersection with unnamed PGC access road.

12.3– MATERIALS

A.#2A Coarse Aggregate –The #2A coarse aggregate shall be Type A quality conforming to the requirements of Section 703.2 of PennDOT Pub. 408. Obtain the #2A coarse aggregate from a source approved in PennDOT Bulletin 14. The #2A coarse aggregate must be crushed stone with the following characteristics;

1. pH between 6 and 12.45 measured by ASTM D4972
2. Abrasion resistance with loss of mass (LA Abrasion) less than 40% (ASTM C131).

B. Road Base Material – The road base material shall be PennDOT #3A conforming to the requirements of Section 703.2 of PennDOT Pub. 408. Road base material can also be a mixture of AASHTO #3 Stone and #2A coarse aggregate. The mixed material must also conform to the requirements of Section 703.2 of PennDOT Pub. 408.

Obtain the road base material from a source listed in PennDOT Bulletin 14. Representatives from the PGC will visit the quarry to review and approve the road base material. Do not deliver any road base material to the site until the PGC has approved the material and source.

12.4 - PROCEDURE

A. General – Complete the pipe installations and drainage work first in conjunction with placement of the road base material.

Place the base material for the full length of the road starting from the north end and progressing south. Placing of the finished stone surface is to begin on the east end of the road and progress toward the west end. Heavy truck traffic is not allowed on the finished stone surface.

B. Road Base Material – Place material for the full width shown on the Drawings in a uniform horizontal layer. Compact the material with tracked equipment or roller. Compaction of the material will be considered adequate based upon non-movement of materials under compaction equipment. Place additional layer(s) to achieve the specified thickness as shown on the Drawings. Place “finer” material on the top surface to allow for easier grading and shaping for placement of the road surface stone. The top surface of the road base material should be graded smooth and even for placement of the stone running surface.

C. #2A Coarse Aggregate – Place the #2A coarse aggregate on the prepared surface. The PGC recommends using a paving machine to place the stone to achieve the required center crown shape. Compact the #2A coarse aggregate with a single drum smooth roller (vibratory, 10-ton min.) to a compacted thickness shown in the road cross sections on the Drawings. Maintain the road shape (center crown) and profile during placement and compaction operations.

12.5 - MEASUREMENT AND PAYMENT

A. General – The quantities for payment are for compacted in-place volumes.

Payment for the #2A coarse aggregate and road base material will be for the compacted volumes calculated on the dimensions shown on the Drawings, not by loose volumes or tonnage. The Contractor is required to provide copies of all material weigh slips to the PGC for verification and comparison purposes only.

B. Road Base Material – Cubic yards, measured by the three-dimensional volume method.

C. #2A Coarse Aggregate – Cubic yards, measured by the three-dimensional volume method.

TECHNICAL SPECIFICATION SECTION NO. 13 – SEEDING

13.1 - SCOPE

This work is securing a satisfactory stand of grass at all disturbed areas along the roadway including the drainage turnouts and includes preparation of the seed bed, furnishing and placing fertilizer, furnishing and sowing of seed, mulching, and maintaining and tending the seeded areas.

13.2 - MATERIALS

A – Seed Mixture – The seed mixture shall be the following;

- Crimson Clover (5 pounds per acres)
- Ladino or White Clover (5 pounds per acres)
- Oats or Seasonal Wheat (50 pounds per acres)

B - Fertilizer - Fertilizer shall conform to the applicable act specified in Section 804.2 of Pub. 408. Use dry formulation of 10-20-20-analysis.

C - Mulches – Straw; no paper mulch.

13.3 - PROCEDURE

Follow the procedures specified below. The amounts of seed, fertilizer and mulch specified are the minimum acceptable. The Game Commission may, at its own expense, test the soils to determine if any modifications to the seed and soil requirements are necessary. Employ such modifications if they are deemed necessary, at no additional cost to the Game Commission, and accept full responsibility for obtaining a satisfactory stand of grass.

A - Preparation of Seed Bed by Shallow Tilling - After the areas to be seeded have been graded and approved by the Game Commission, thoroughly till the surfaces to a depth of 3 inches by raking, harrowing, or other approved means. Apply fertilizer at a rate of 500 Lbs. per acre. Make sure that the fertilizer is worked thoroughly into the soil to a depth of 3 inches and the tillage operations are sufficient to insure that the soil conditions are satisfactory for seeding. Smooth and bring the area to grade. Immediately prior to sowing, rake the soil to a depth of 3/4 inch. Rake in a direction parallel to the contour lines on the slope, and not uphill or downhill. Remove all sticks, stones, weeds, roots, and other objectionable materials appearing on the surface. Maintain the surface in a true and even condition during sowing of seed. The seeded surface must be as smooth as the surrounding grassed area.

B - Sowing - Sow the seed mixture on a still day at a rate specified in Section 13.2 of these Technical Specifications. Sow by hand or by approved sowing equipment in 2 applications, one-half the seed while the seeder is traveling in one direction and the other half while the seeder is traveling at right angle to the first direction. After sowing, rake, cultipack, or brush drag the surface very lightly, just deep enough to cover the seeds. Rake only in a direction parallel to the contour lines.

You may use hydroseeding or grain drilling, provided all methods and equipment are approved by the Game Commission. In case of hydroseeding, you may apply fertilizer and limestone at the time of

sowing. In case of grain drilling, you may apply fertilizer at the time of sowing, provided the fertilizer does not come in contact with the seed. Drill only in a direction parallel to the contour lines.

Do not sow seed on frozen or partially frozen ground.

C - Mulching - After sowing is completed, spread mulch uniformly over the entire seeded area at a rate of 2 tons (dry weight) per acre. The mulch shall be moist at the time of placement.

On slopes where machinery cannot be used, retain the mulch in place by some suitable means which will not be detrimental to subsequent operations.

13.4 - MEASUREMENT AND PAYMENT

Lump Sum.